




Welcome to The DB9 13MY Workshop Manual at Aston Martin



- 00 Complete Vehicle
- 01 Body
- 02 Frame and Mountings
- 03 Engine
- 04 Suspension
- 05 Driveline
- 06 Brake
- 07 Transmission
- 09 Exhaust
- 10 Fuel
- 11 Steering
- 12 Climate Control
- 13 Information, Gauge and Warning
- 14 Electrical Power Supply
- 15 In-Vehicle Infotainment
- 17 Lighting
- 18 Electric Distribution and Control
- 19 Electronic Features

Small **Normal** **Large****00.00.BB De-Marry Body and Drive Train - LHD (Remove for Access and Install)**

-  WSM Data
-  Included Procedures
-  Is Used In

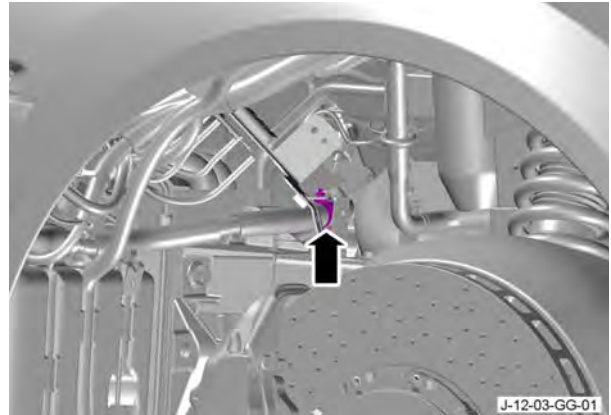
Remove for Access

1. Remove the four wheels and tyres (04.04.EE - Wheels and Tyres - Vehicle Set).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the dipstick (03.02.DB - Dipstick).
[\[Open Workshop Manual Procedure\]](#)
3. Remove the Power Assisted Steering (PAS) fluid reservoir (11.02.AE - Reservoir and Cap for the Power Assisted Steering (PAS)).
[\[Open Workshop Manual Procedure\]](#)
4. Remove the pipe from right side valve cover to right side flexible duct (03.08.AL - Pipe from Right Side Valve Cover to Right Side Flexible Duct).
[\[Open Workshop Manual Procedure\]](#)
5. Remove the pipe from left side valve cover to left side flexible duct (03.08.AM - Pipe from Left Side Valve Cover to Left Side Flexible Duct).
[\[Open Workshop Manual Procedure\]](#)
6. Remove the engine ground strap (14.01.EP - Engine Ground Strap).
[\[Open Workshop Manual Procedure\]](#)
7. Remove the fuse box for the engine bay (18.01.KH - Fuse Box for the Engine Bay - LHD).
[\[Open Workshop Manual Procedure\]](#)
8. Remove the radiator hose (03.03.KS - Radiator Hose).
[\[Open Workshop Manual Procedure\]](#)
9. Remove the thermostat-housing to bypass pipe hose (03.03.MM - Thermostat-Housing to Bypass Pipe Hose).
[\[Open Workshop Manual Procedure\]](#)
10. Remove the bottom outlet tube for the evaporator (12.03.GC - Bottom Outlet Tube for the Evaporator).
[\[Open Workshop Manual Procedure\]](#)
11. Remove the right side front suspension bottom arm (04.01.AC - Right Side Front Suspension Bottom Arm).
[\[Open Workshop Manual Procedure\]](#)
12. Remove the left side front suspension bottom arm (04.01.AD - Left Side Front Suspension Bottom Arm).
[\[Open Workshop Manual Procedure\]](#)
13. Drain the transmission oil (07.01.BD - Transmission Oil).
[\[Open Workshop Manual Procedure\]](#)

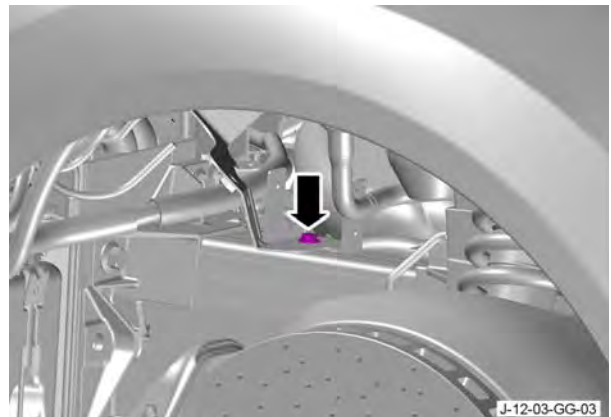
14. Remove the tunnel heat shield (02.06.AE - Tunnel Heat Shield).

[\[Open Workshop Manual Procedure\]](#)

15. Release the wiring harness for the engine from the clip that attaches it to the bracket for the fuse box.

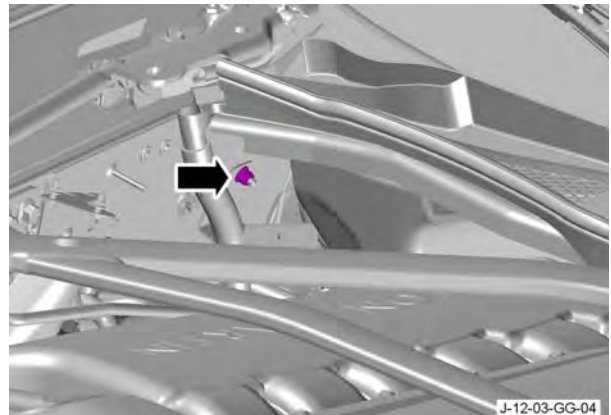


16. Remove the screw that attaches the bracket for the fuse box to the body.

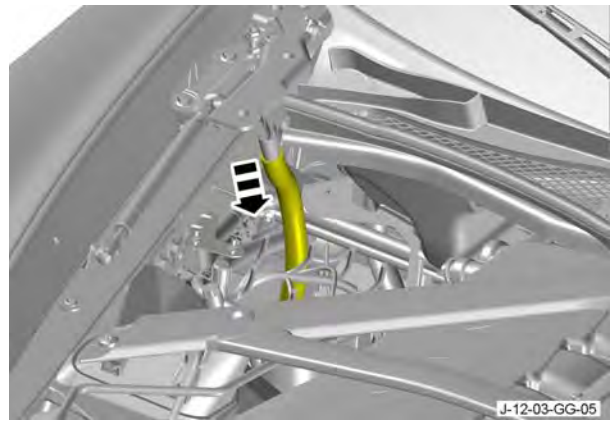


17. Lower the vehicle.

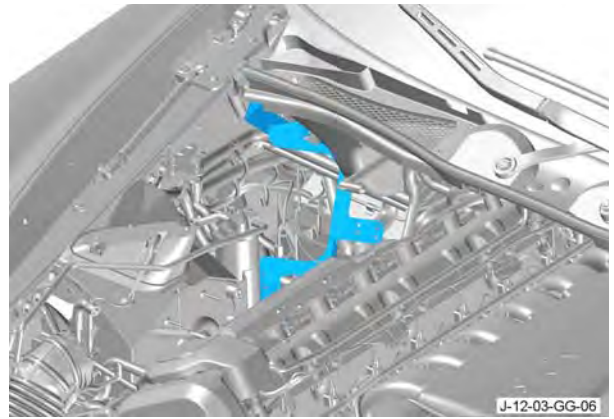
18. Remove the nut that attaches the bracket for the fuse box to the body.



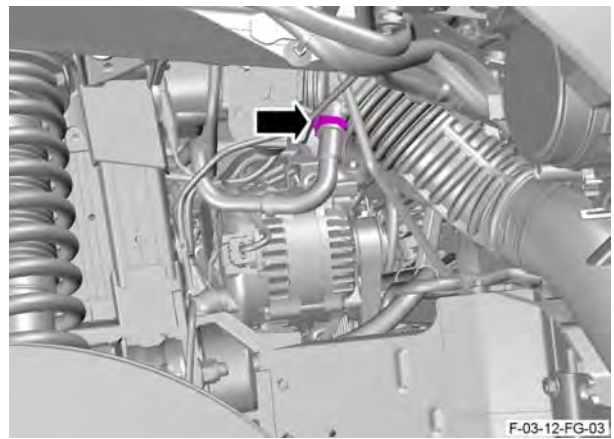
19. Disconnect the drain hose from the cowl vent screen.



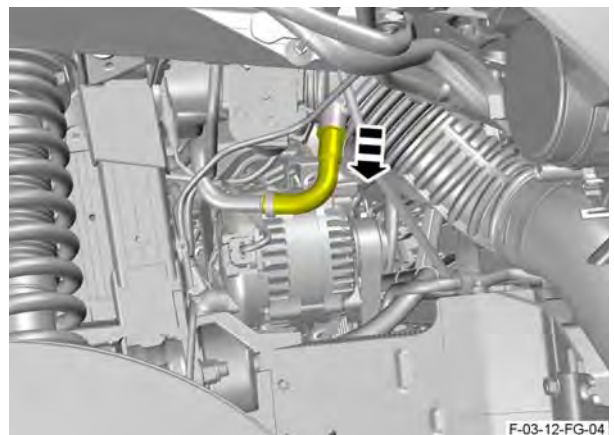
20. Remove the bracket for the fuse box.



21. Remove and discard the clip that attaches the emissions hose to the intake pipe.



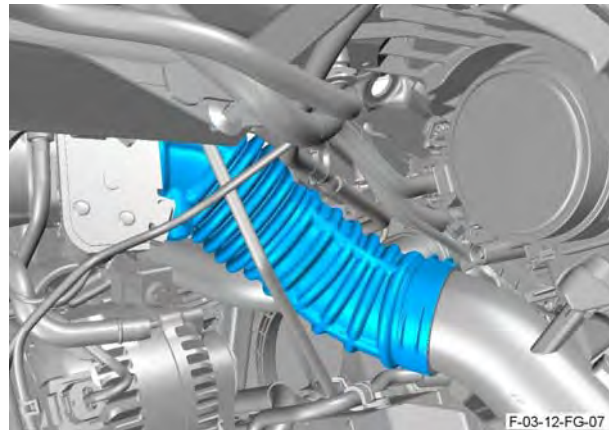
22. Disconnect the emissions hose from the intake hose.



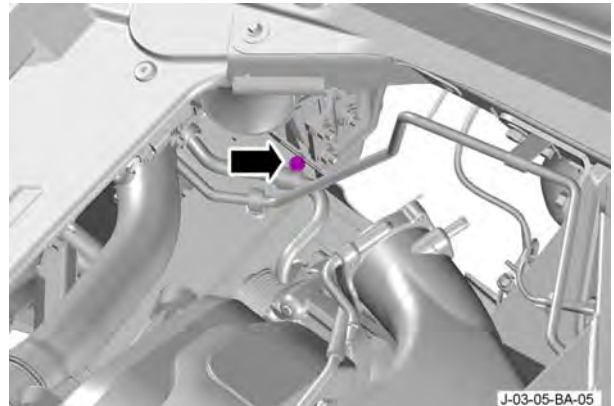
23. Remove and discard the clip that attaches the intake hose to the outlet pipe for the air cleaner.



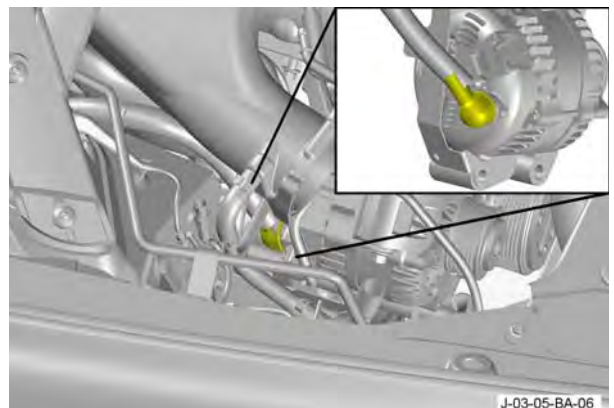
24. Remove the intake pipe.



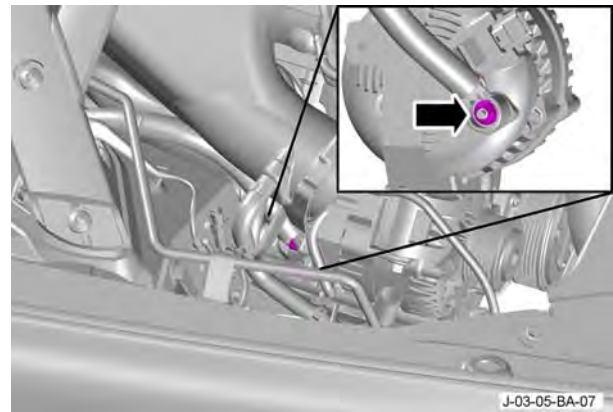
25. Remove the screw that attaches the A/C pipe to the body.



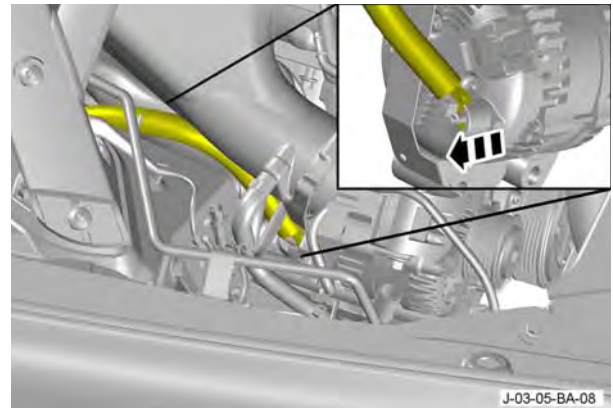
26. Move the rubber cover to allow access to the alternator terminal.



27. Remove the nut that attaches the positive lead to the alternator.



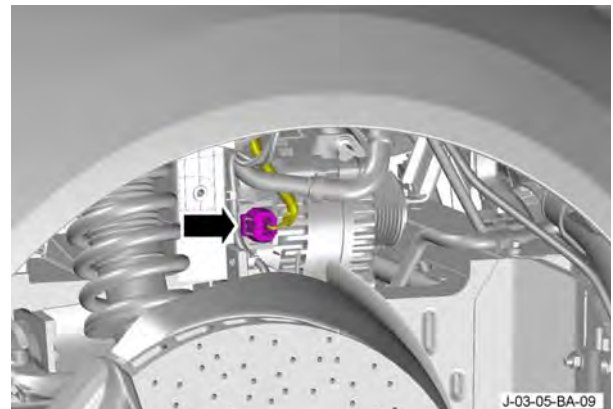
28. Move the positive lead away from the alternator.



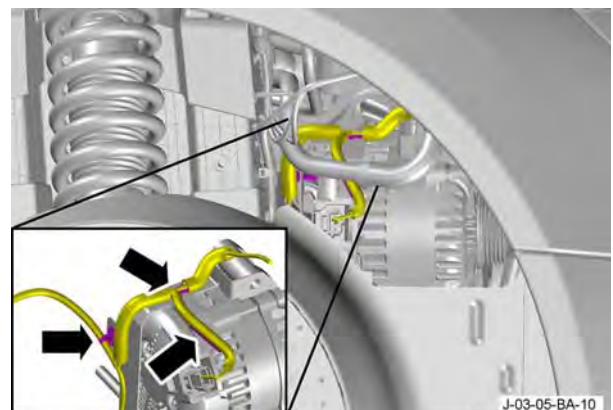
29. **i** *Note: Lift the vehicle to get access to the alternator through the wheel arch.*

Lift the vehicle.

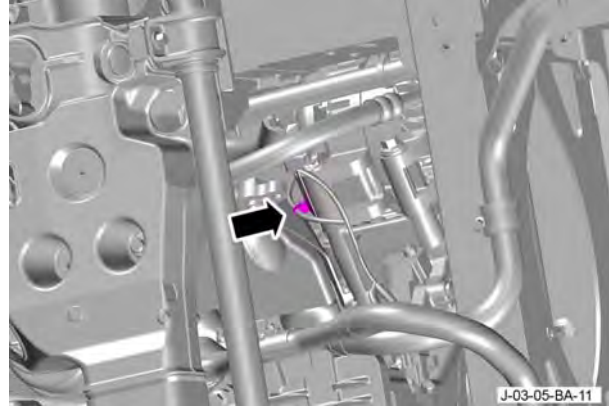
30. Disconnect the electrical connector from the alternator.



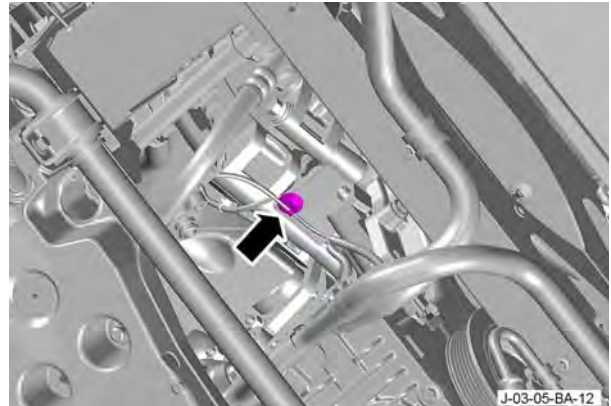
31. Release the engine wiring harness from the three clips that attach it to the alternator cover.



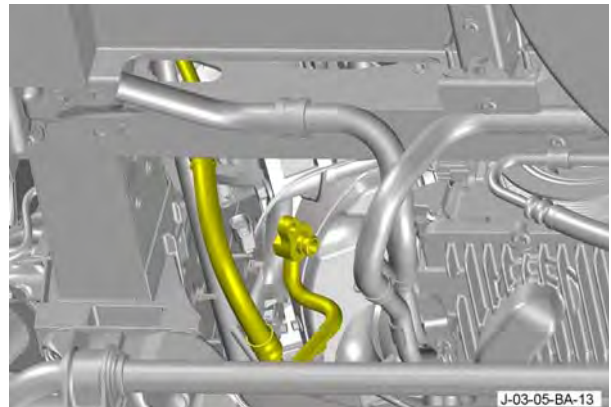
32. Lift the vehicle.
33. Release the engine wiring harness from the clip that attaches it to the alternator cover.



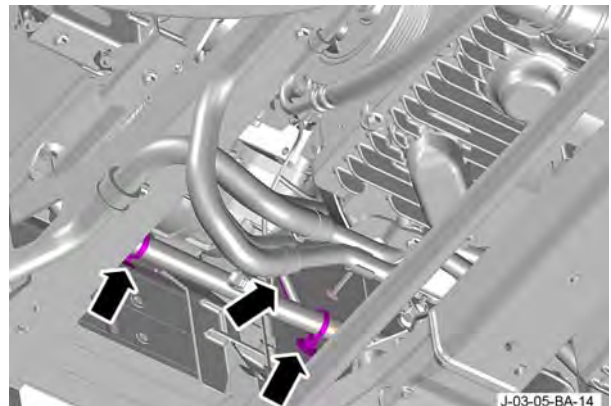
34. Release the engine wiring harness from the clip that attaches it to the alternator bracket.



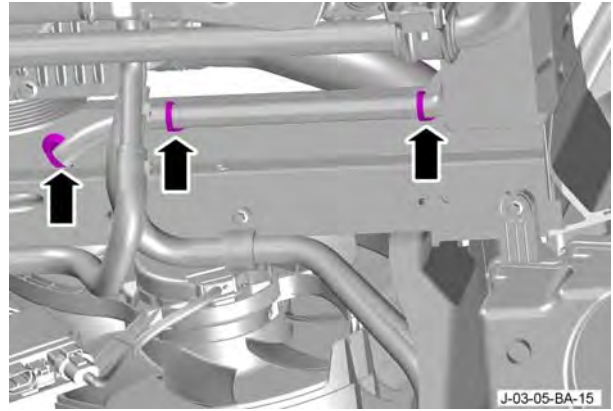
35. Move the A/C pipe away from the alternator.



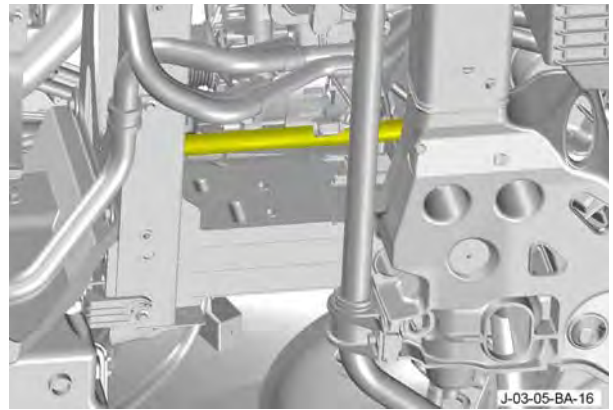
36. Release the battery cable from the three clips that attach it to the body.



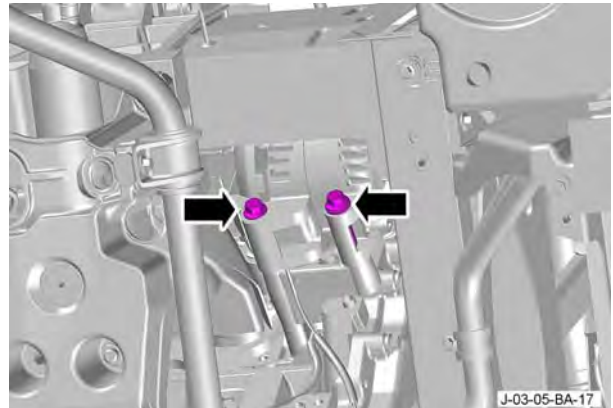
37. Release the battery cable from the three clips that attach it to the body.



38. Move the battery cable away from the body.

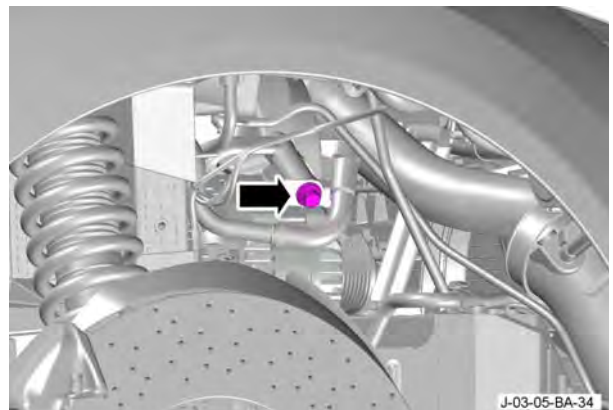


39. **i** *Note: Loosen the two bolts until the thread of the bolts is not engaged with the engine.*
Loosen the two bolts that attach the alternator to the alternator bracket.

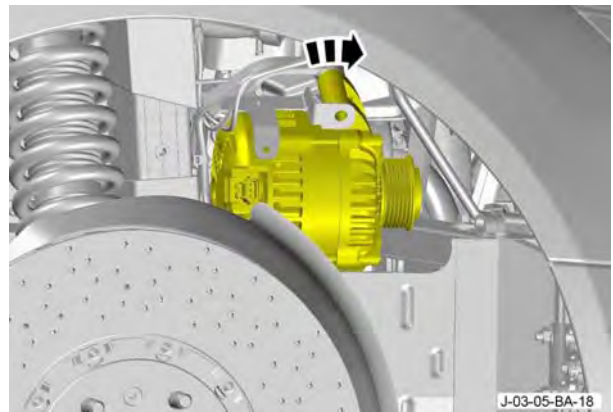


40. **i** *Note: Lower the vehicle to get access to the alternator through the wheel arch.*
Lower the vehicle.

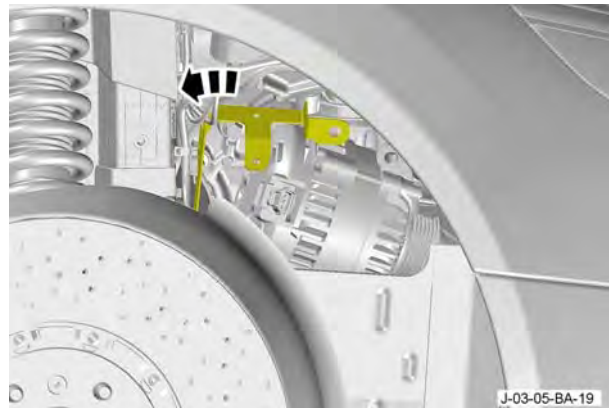
41. Remove the bolt that attaches the alternator to the alternator bracket.



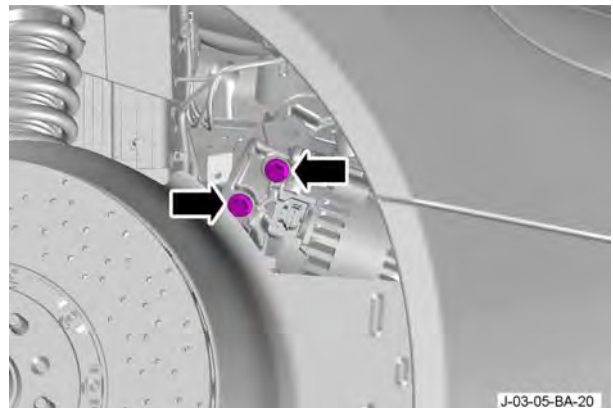
42. Move the alternator to get access to the two bolts that attach the alternator bracket.



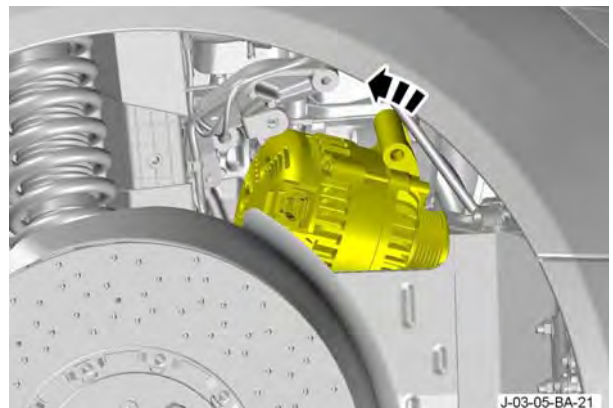
43. Move the alternator cover to get access to the two bolts that attach the alternator bracket.




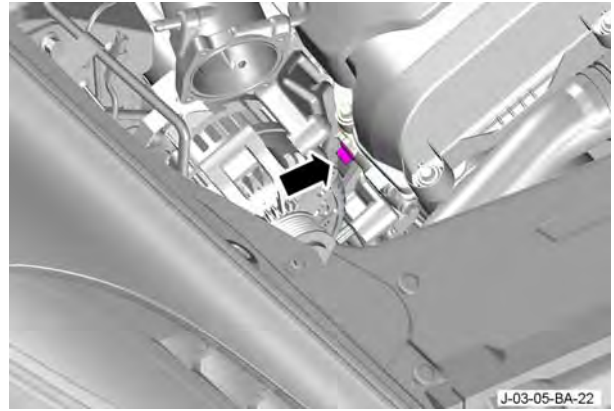
44. Remove the two bolts that attach the alternator bracket to the engine.



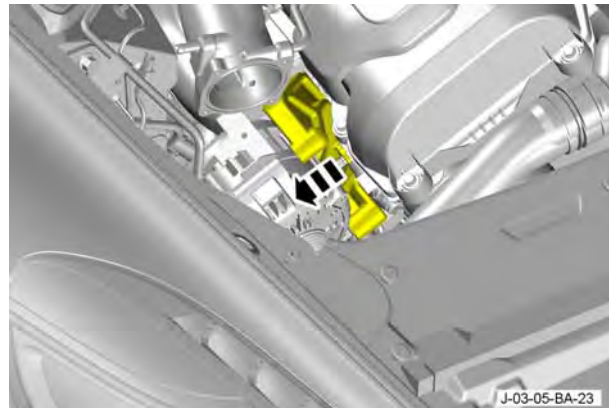
45. Move the alternator to get access to the bolt that attaches the alternator bracket.



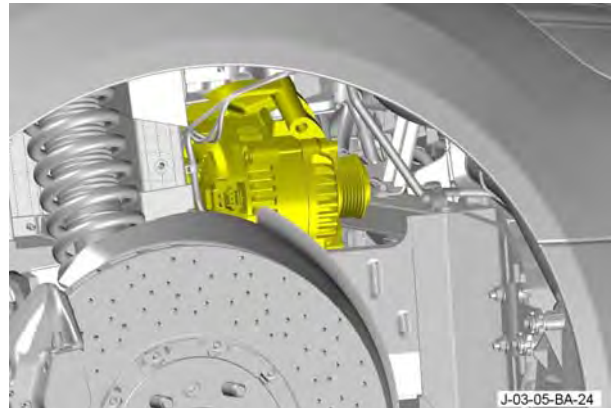
46.  *Note: Loosen the bolt until the thread of the bolt is not engaged with the engine.*
Loosen the bolt that attaches the alternator bracket to the engine.



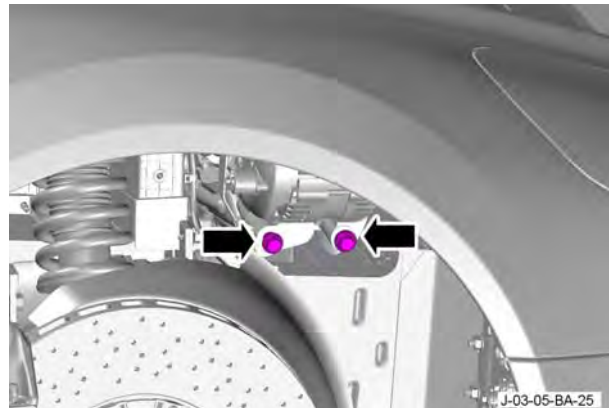
47. Move the alternator bracket away from the engine.



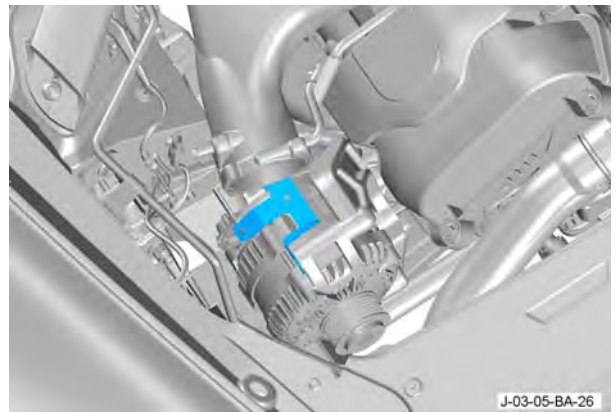
48. Move the alternator and bracket assembly to get access to the bottom bolts for the alternator.



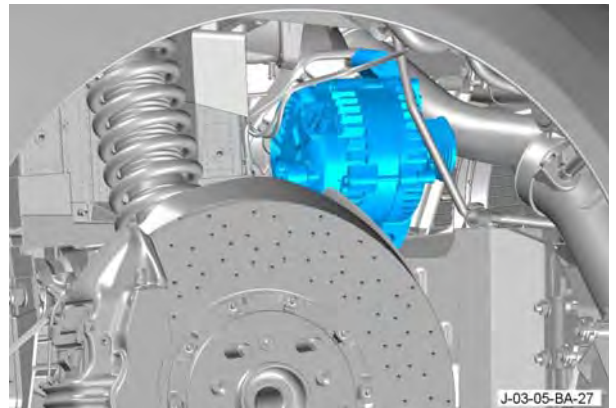
49. Remove the two bottom bolts for the alternator.



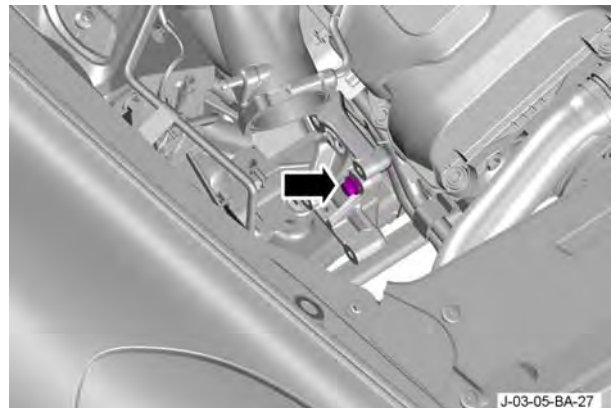
50. Remove the alternator cover.



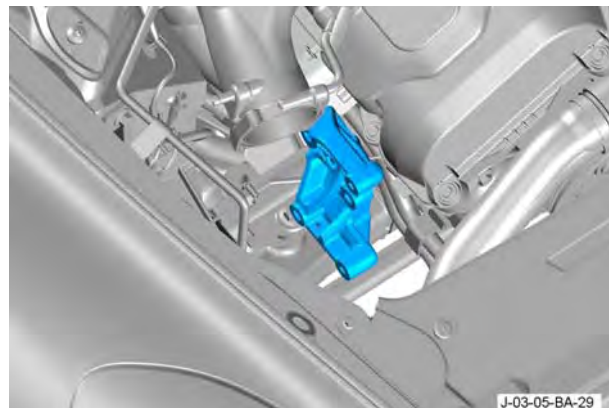
51. Remove the alternator.



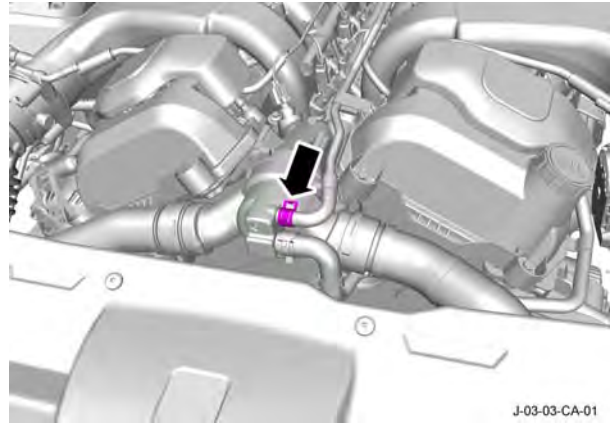
52. Remove the bolt for the alternator bracket.




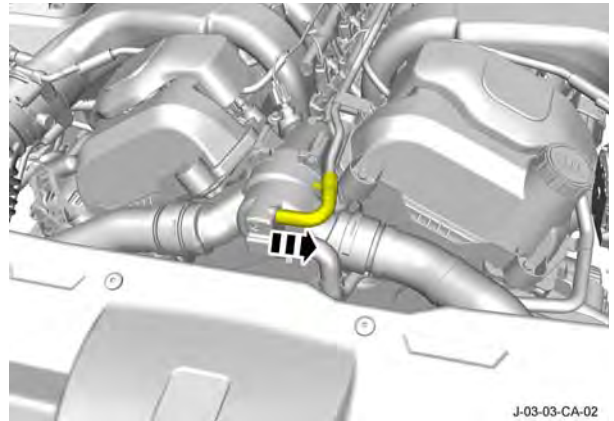
53. Remove the alternator bracket.



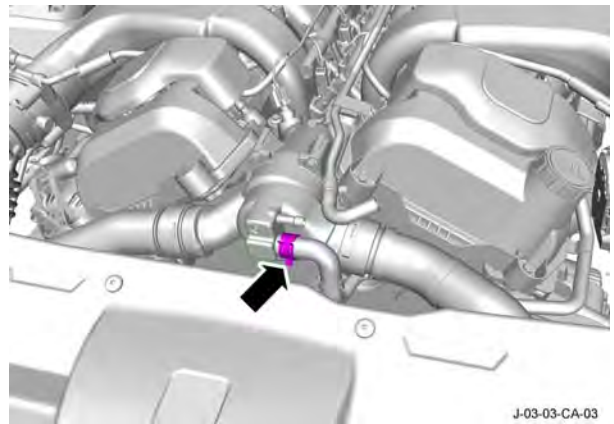
54. Release the clip that attaches the coolant hose to the thermostat-housing.




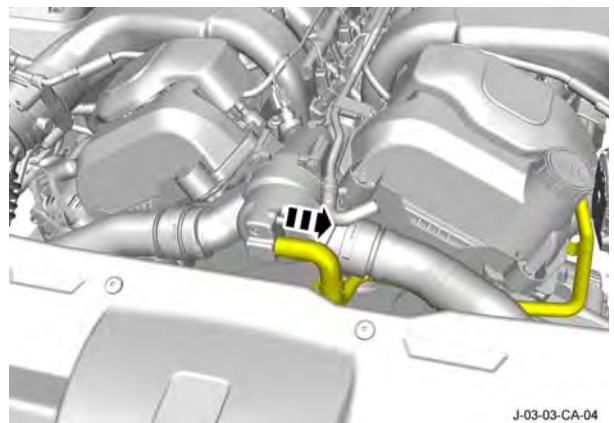
55.  **Caution: Do not let the coolant touch the engine drive belt. The engine drive belt can be damaged by coolant.**
Disconnect the coolant hose from the thermostat-housing.



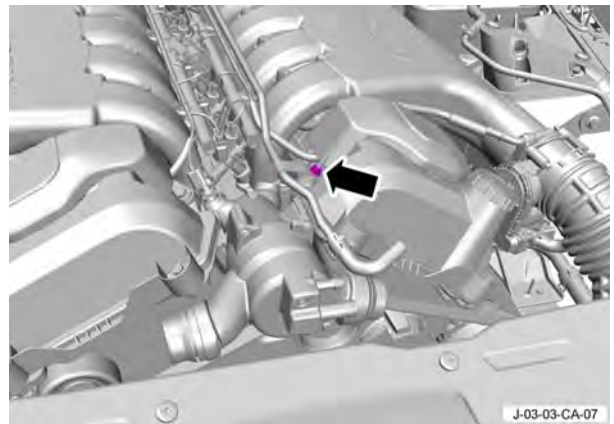
56. Release the clip that attaches the coolant hose to the thermostat-housing.




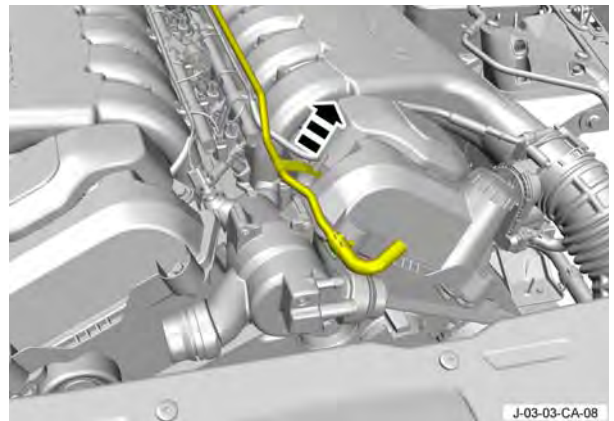
57.  **Caution: Do not let the coolant touch the engine drive belt. The engine drive belt can be damaged by coolant.**
Disconnect the coolant hose from the thermostat-housing.



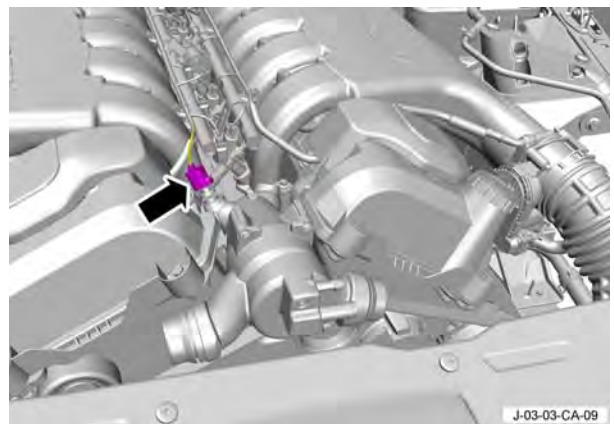
58. Remove the nut that attaches the coolant pipe to the engine.



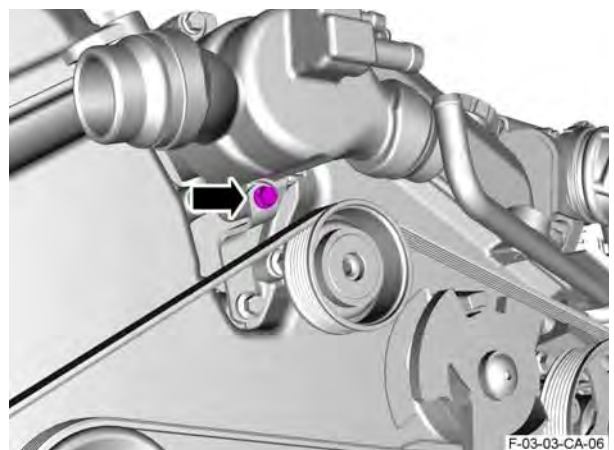
59.  **Caution: Do not force the coolant pipe. This will help prevent damage to the vehicle.**
Release the coolant pipe from the engine.



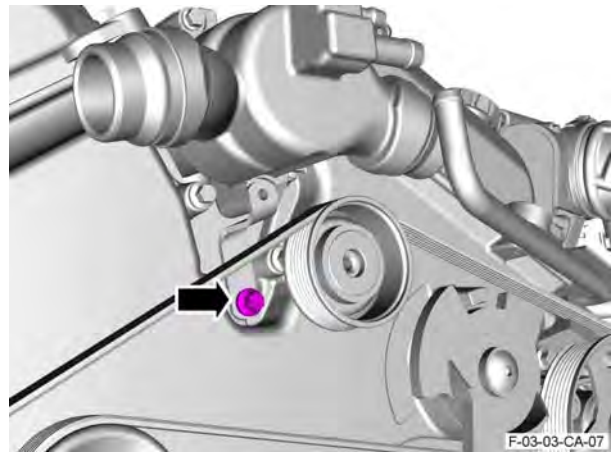
60. Disconnect the electrical connector from the Engine Coolant Temperature (ECT) sensor.



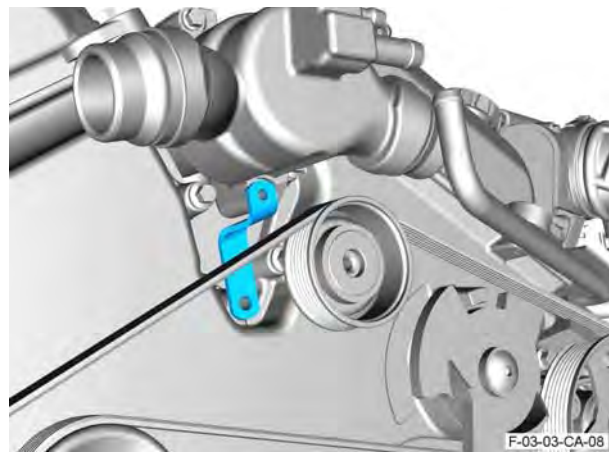
61. Remove the bottom bolt that attaches the thermostat-housing to the engine.



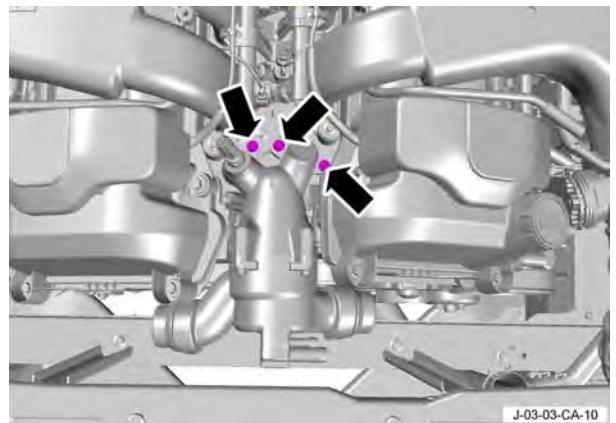
62. Remove the bolt that attaches the support bracket for the thermostat-housing to the engine.




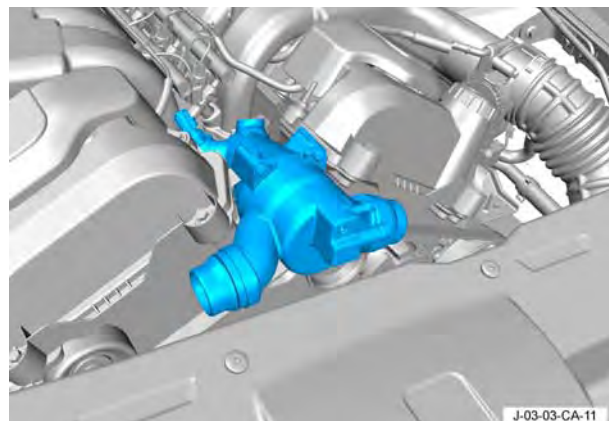
63. Remove the support bracket for the thermostat-housing.



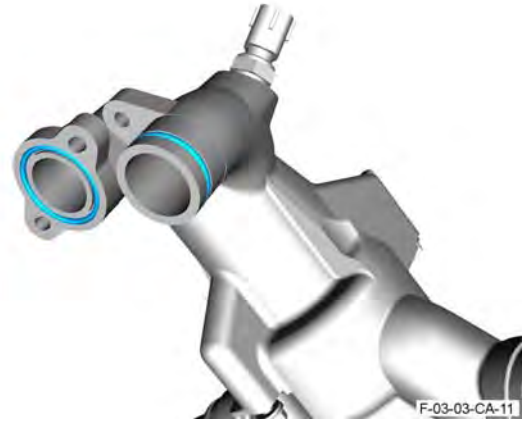
64. Remove the three bolts that attach the thermostat-housing to the engine.



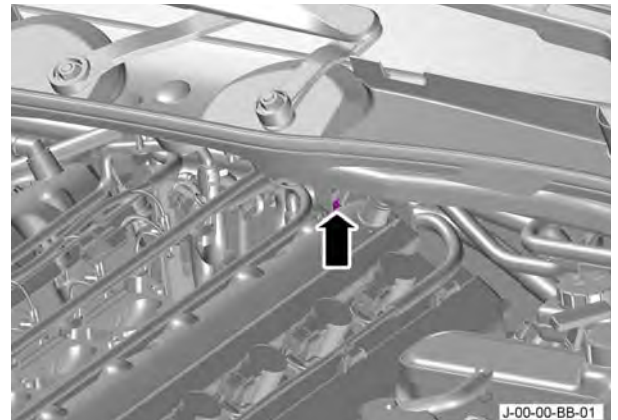
65.  **Caution: Do not let the coolant touch the engine drive belt. The engine drive belt can be damaged by coolant.**
Remove the thermostat-housing from the engine.



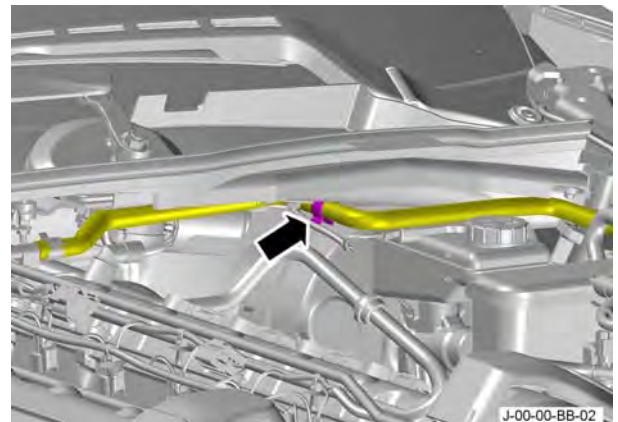
66. Remove and discard the two thermostat-housing seals.



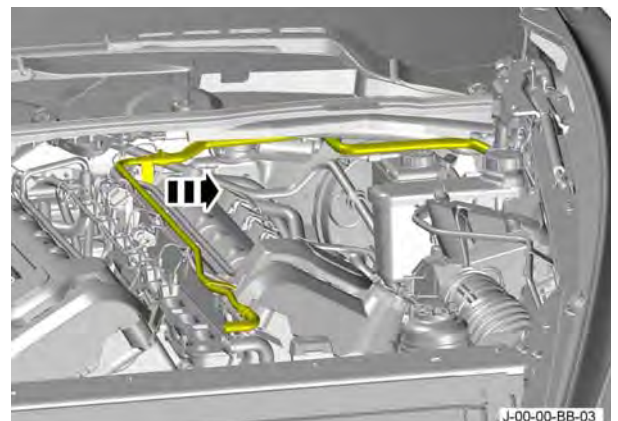
67. Remove the nut that attaches the coolant pipe to the engine.



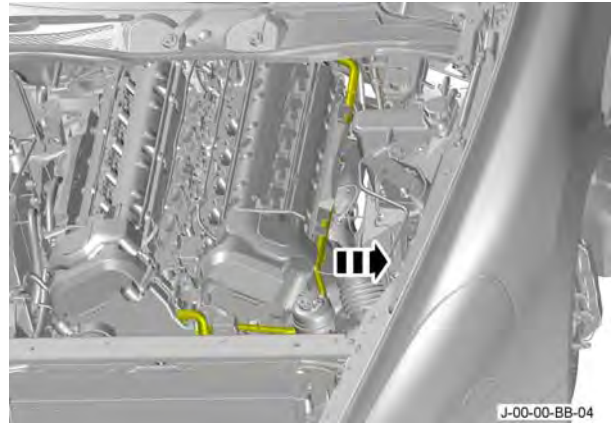
68. Release the coolant hose from the clip that attaches it to the body.



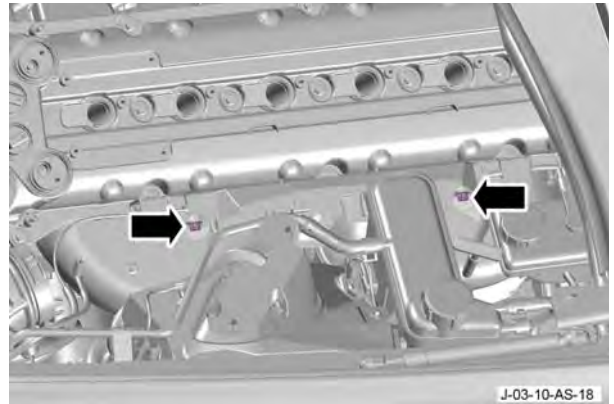
69. Move the coolant pipe away from the engine.



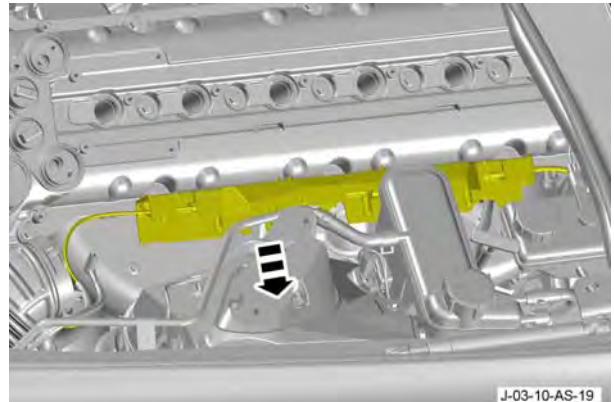
70. Move the coolant hose away from the engine.



71. Remove the two bolts that attach the protective cover to the engine.



72. Move the protective cover away from the engine.

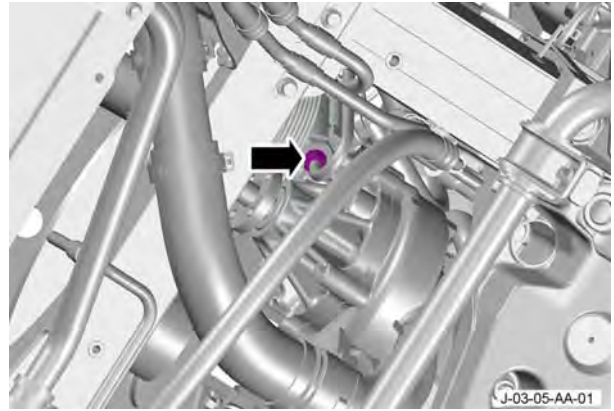


73. Remove the dipstick tube.

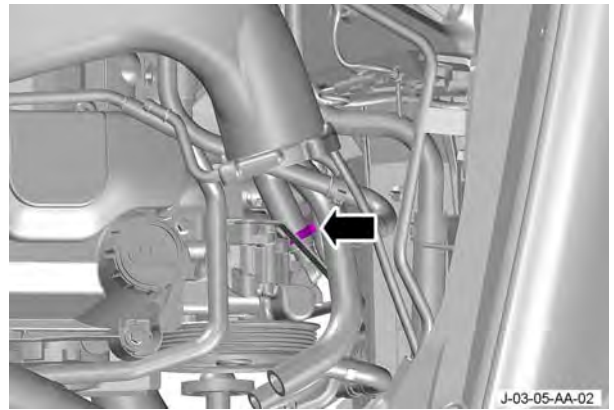



74.  **Caution: Prepare to collect the PAS fluid.**

Disconnect the PAS pipe union from the PAS pump.

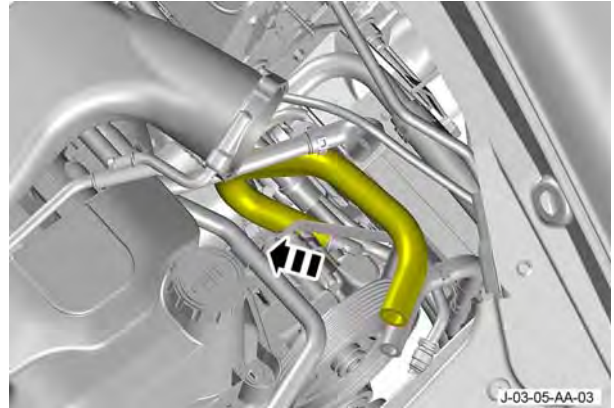


75. Remove the clip that attaches the PAS hose to the PAS pump.

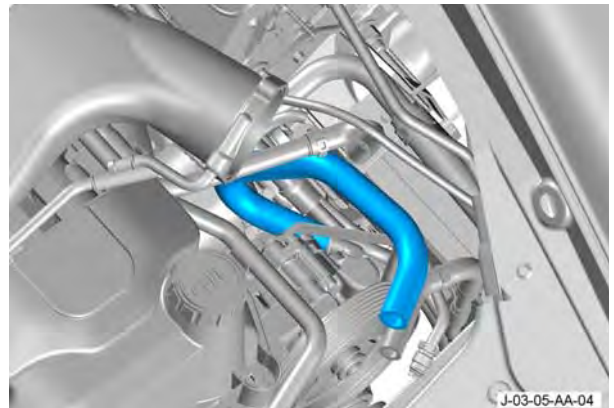


76.  **Note: Install applicable caps to seal the open ports.**

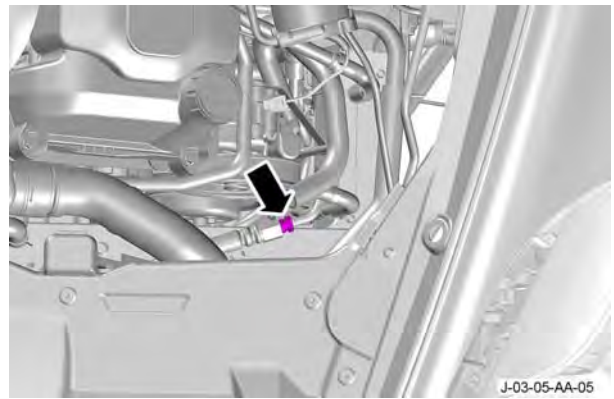
Disconnect the PAS hose from the PAS pump.



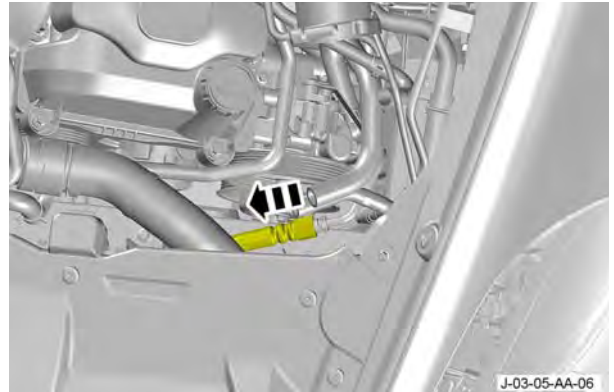
77. Remove the PAS hose.



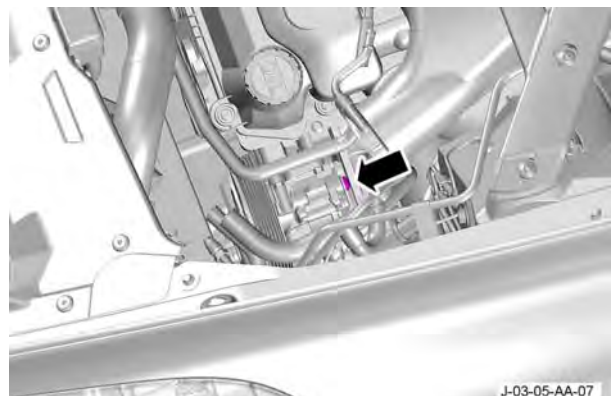
78. Disconnect the PAS pipe union from the PAS hose.



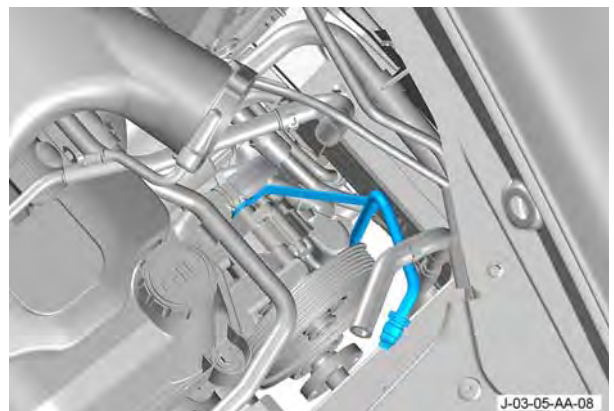
79. **i** *Note: Install applicable caps to seal the open ports.*
Move the PAS hose away from the PAS pipe.



80. Remove the bolt that attaches the PAS pipe to the PAS pump.

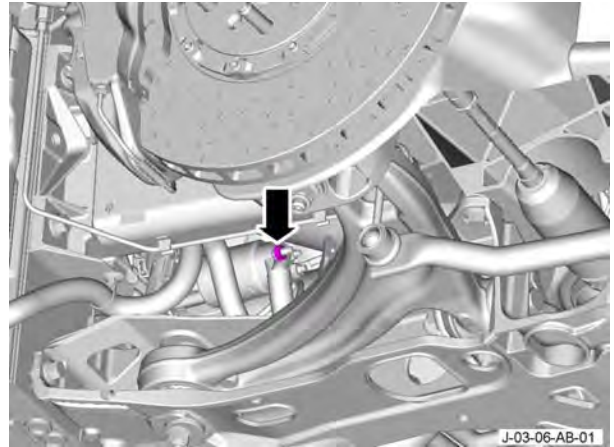


81. **i** *Note: Install applicable caps to seal the open ports.*
Remove the PAS pipe.

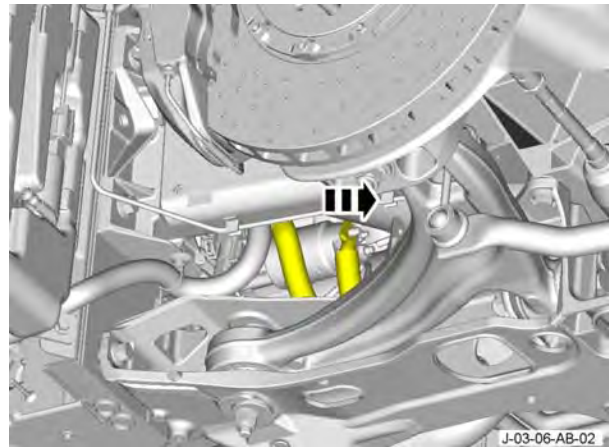


82. **i** *Note: Lift the vehicle to get access to the alternator through the wheel arch.*
Lift the vehicle.

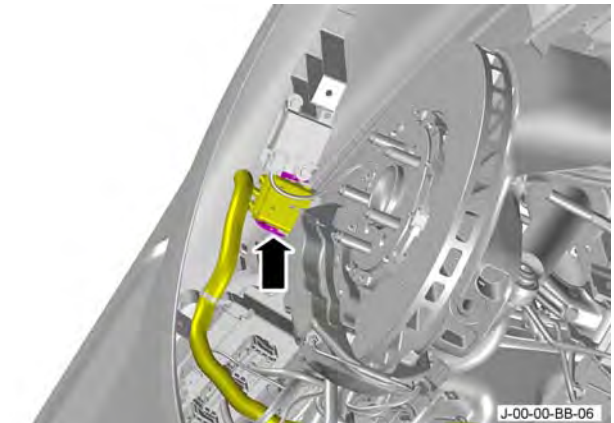
83. Remove the nut that attaches the battery positive cable to the starter motor.



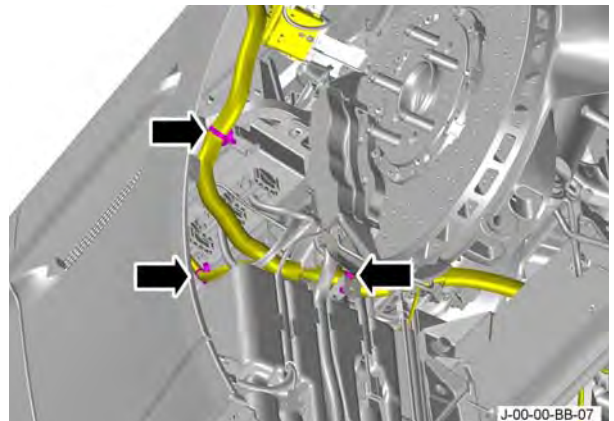
84. Release the battery positive cable from the starter motor.



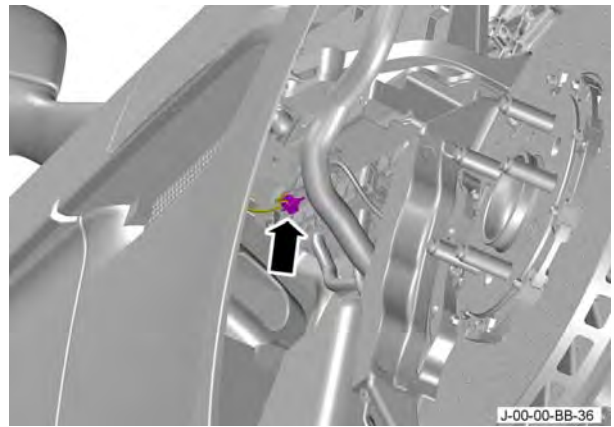
85. Disconnect the electrical connector from the forward harness.



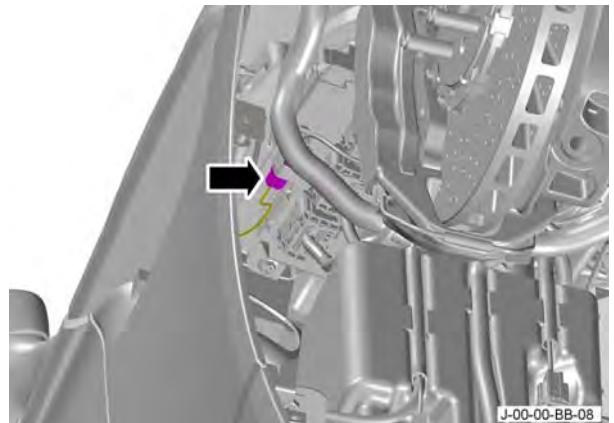
86. Release the wiring harness for the engine from the three clips that attach it to the body.



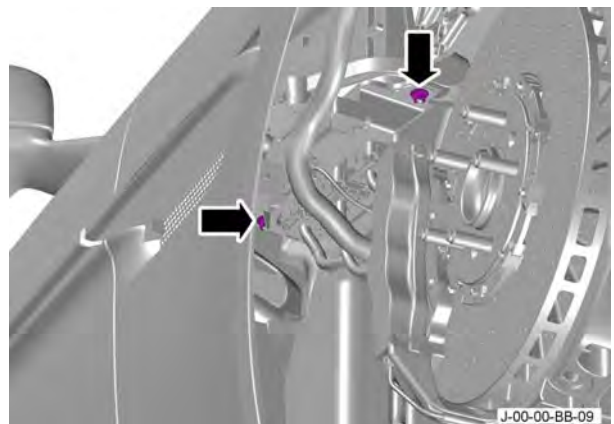
87. Release the wiring harness from the clip that attaches it to the body.



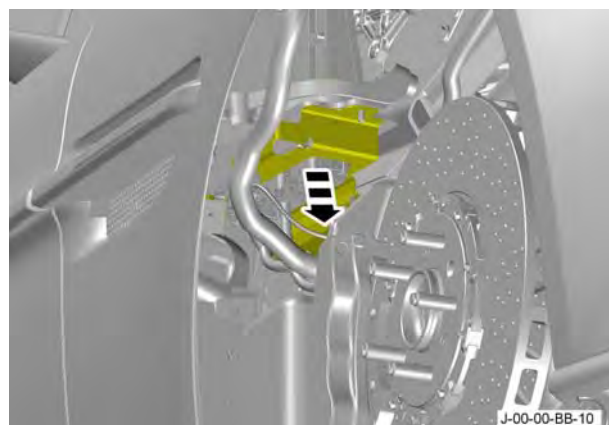
88. Disconnect the electrical connector from the forward wiring harness.



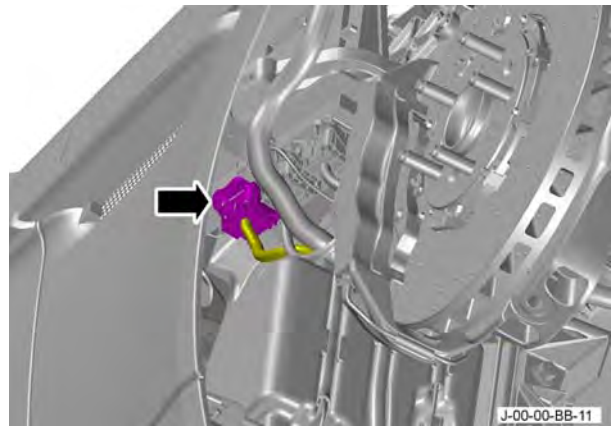
89. Remove the two nuts that attach the right side Powertrain Control Module (PCM) to the body.



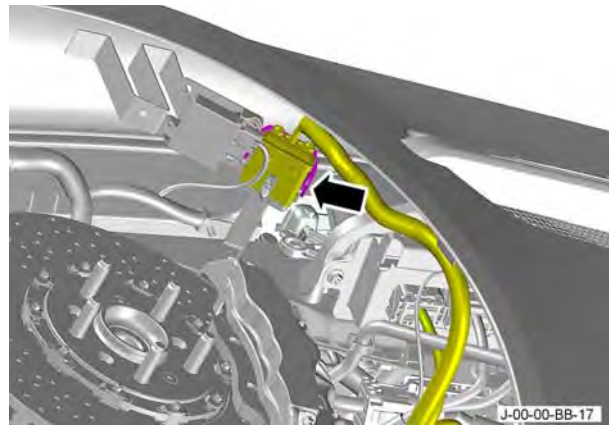
90. Move the right side PCM bracket away from the right side PCM.



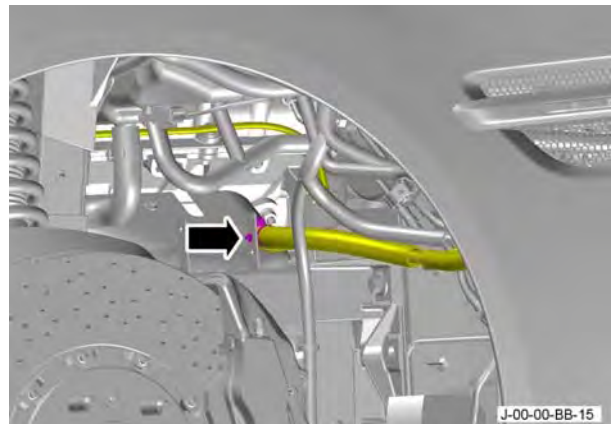
91. Disconnect the electrical connector from the right side PCM.



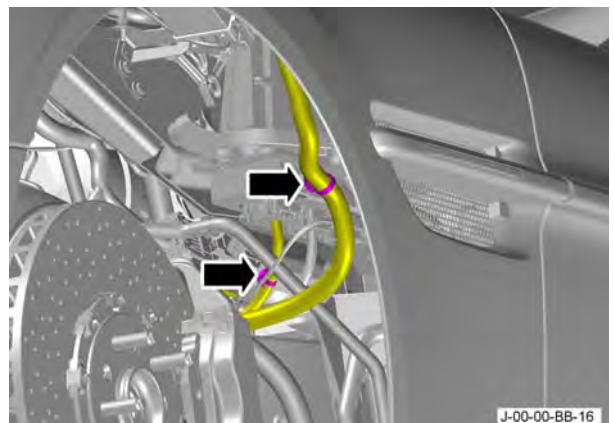
92. Disconnect the electrical connector from the forward harness.



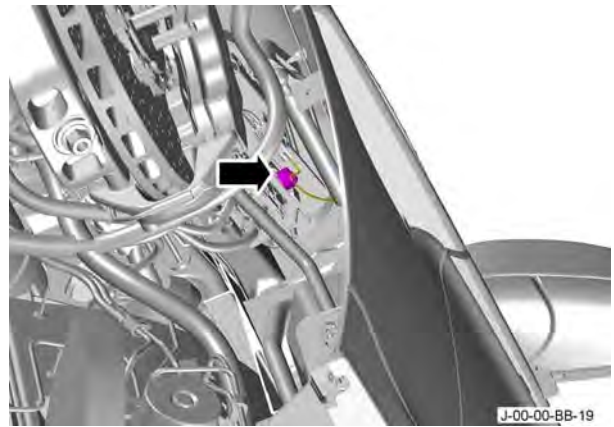
93. Release the wiring harness for the engine from the clip that attaches it to the body.



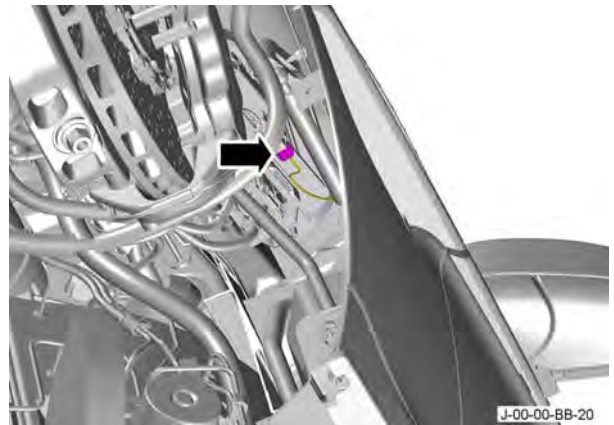
94. Release the wiring harness for the engine from the two clips that attach it to the body.



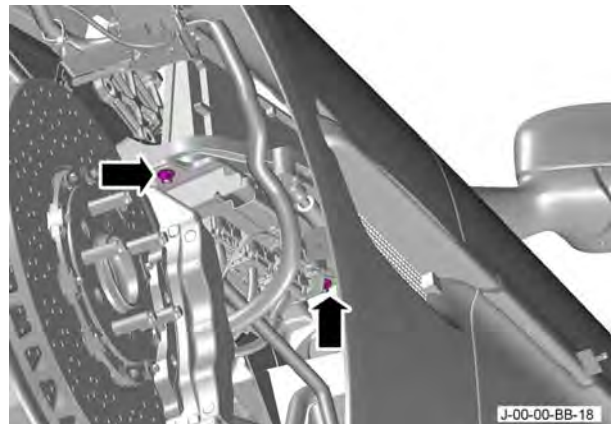
95. Release the wiring harness from the clip that attaches it to the body.



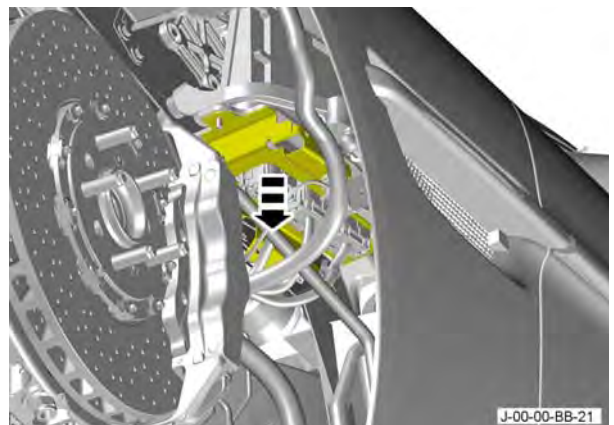
96. Disconnect the electrical connector from the forward wiring harness.



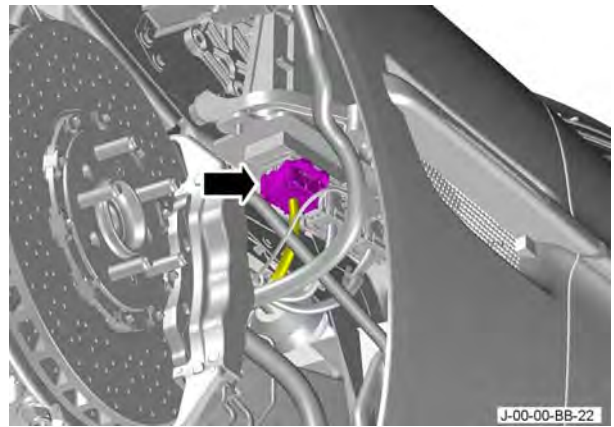
97. Remove the two nuts that attach the left side PCM to the body.



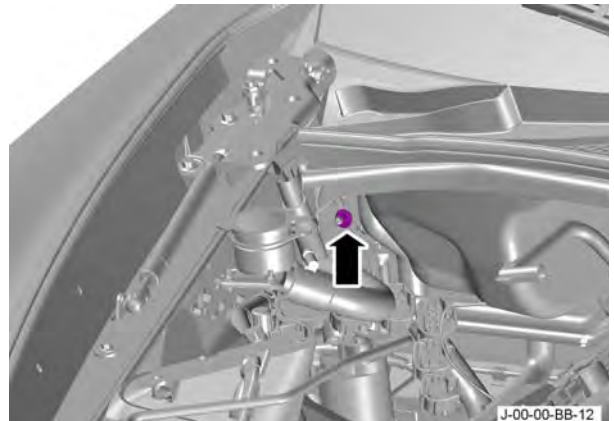
98. Move the left side PCM bracket away from the left side PCM.



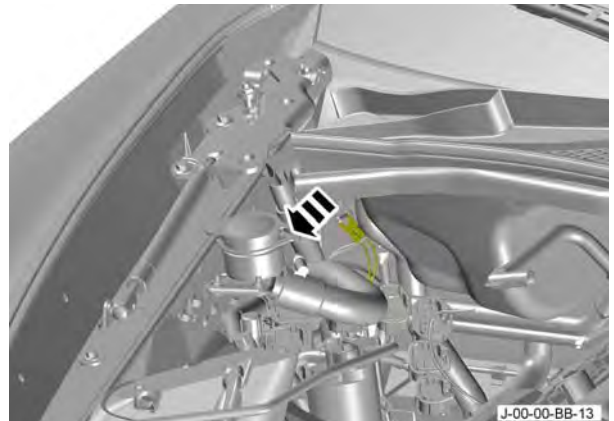
99. Disconnect the electrical connector from the left side PCM.



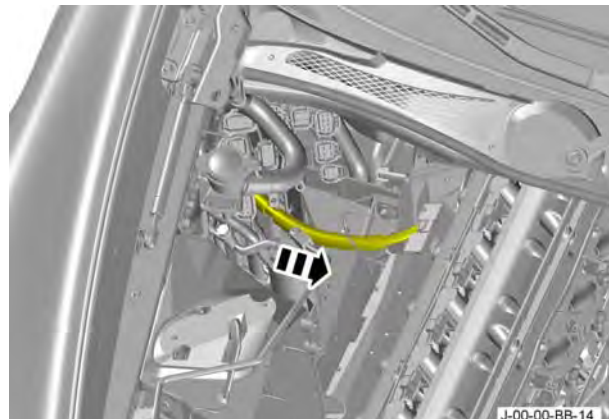
100. Lower the vehicle.
101. Remove the nut that attaches the wiring harness for the engine to the body.



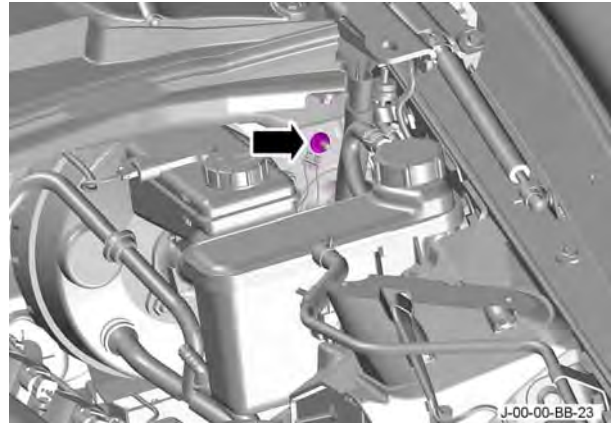
102. Release the wiring harness for the engine from the stud that attaches it to the body.



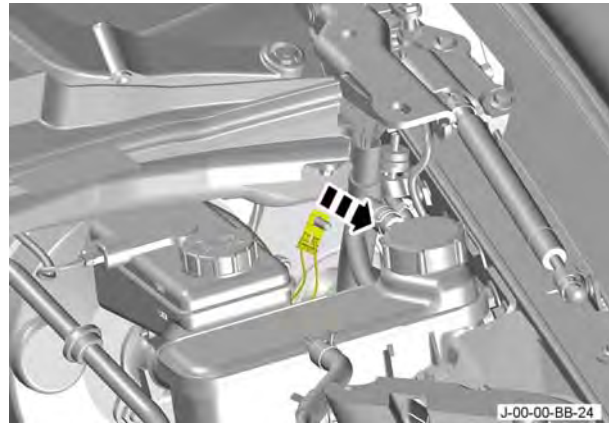
103. Move the wiring harness for the engine away from the body.



104. Remove the nut that attaches the wiring harness for the engine to the body.



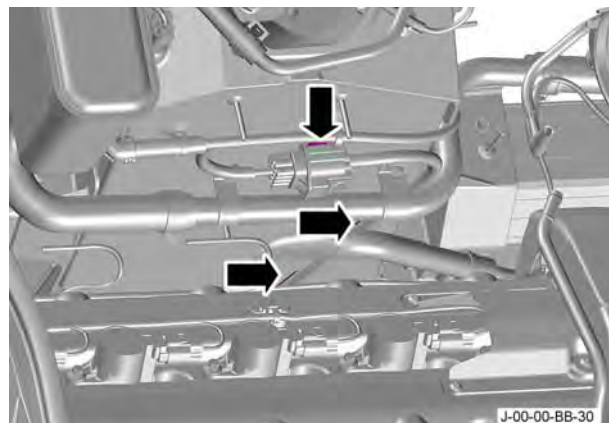
105. Release the wiring harness for the engine from the stud that attaches it to the body.



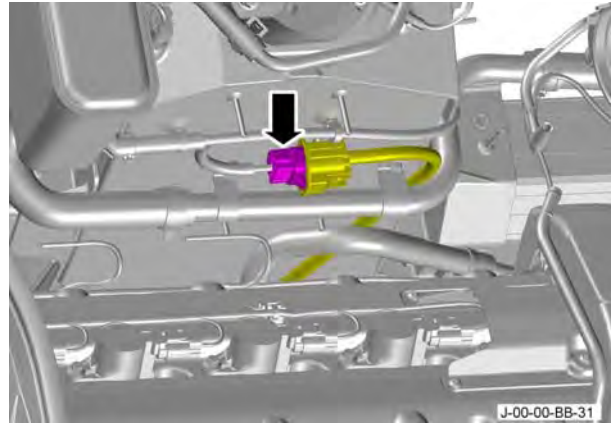
106. Move the wiring harness for the engine away from the body.



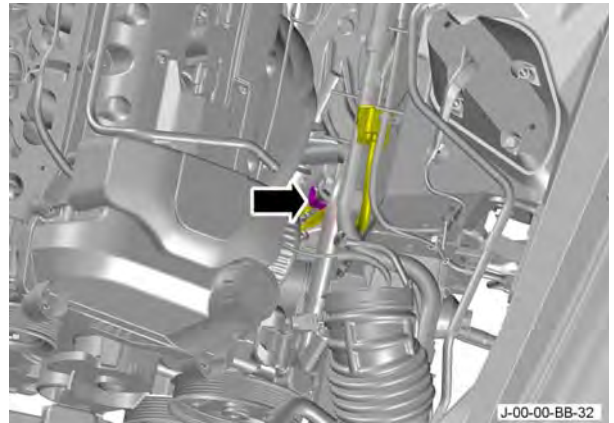
107. Release the link wiring harness for the PAS system from the three clips that attach it to the body.



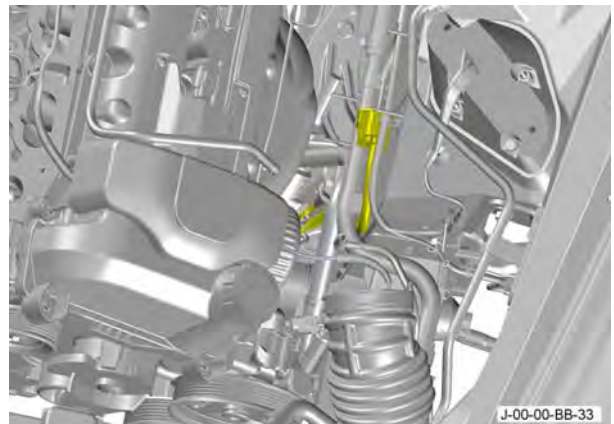
108. Disconnect the electrical connector from the link wiring harness for the PAS system.



109. Disconnect the electrical connector from the pressure sensor for the PAS.

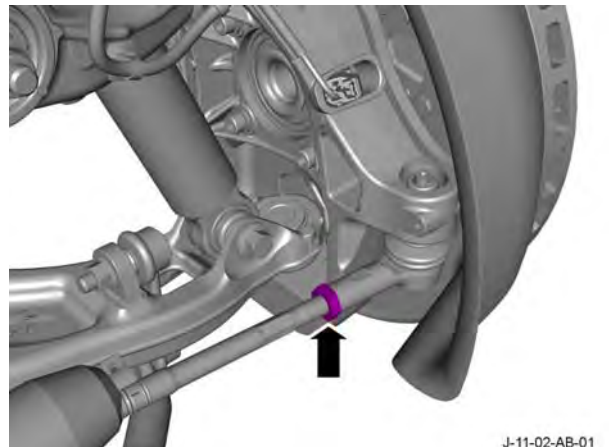


110. Move the link wiring harness for the PAS system away from the body.

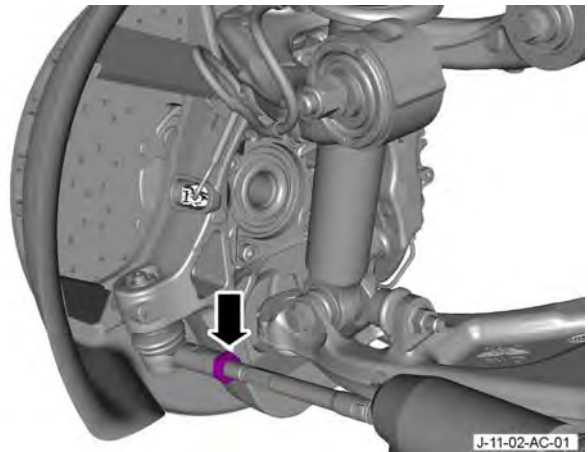


111. Lift the vehicle.

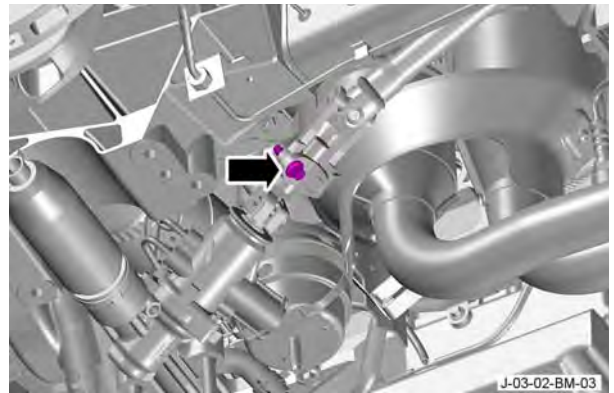
112. Loosen the lock nut that attaches the track rod end to the track rod.



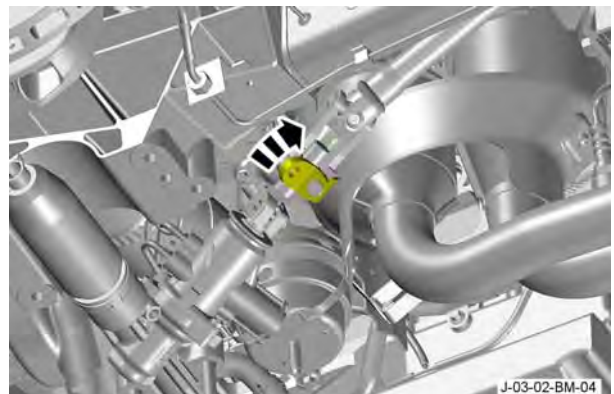
113. Loosen the lock nut that attaches the track rod end to the track rod.



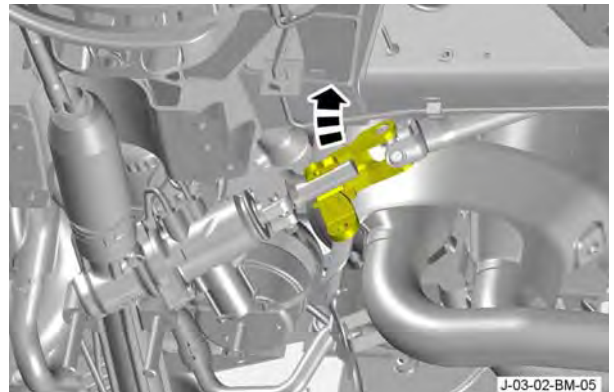
114. Remove the pinch bolt that attaches the steering column to the PAS rack.




115. Turn the butterfly clamp plate to release the vee yoke assembly from the PAS rack.

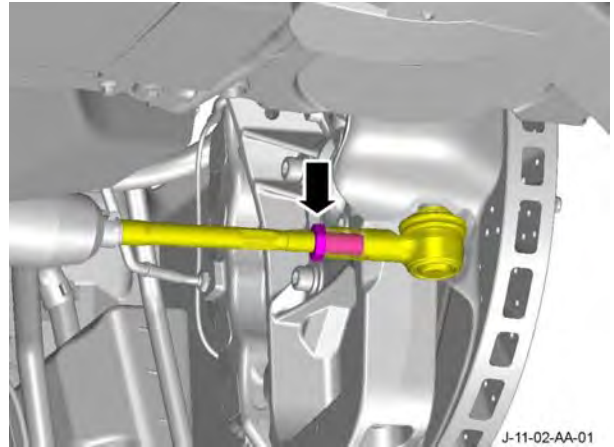



116. Turn the vee yoke assembly away from the PAS rack.



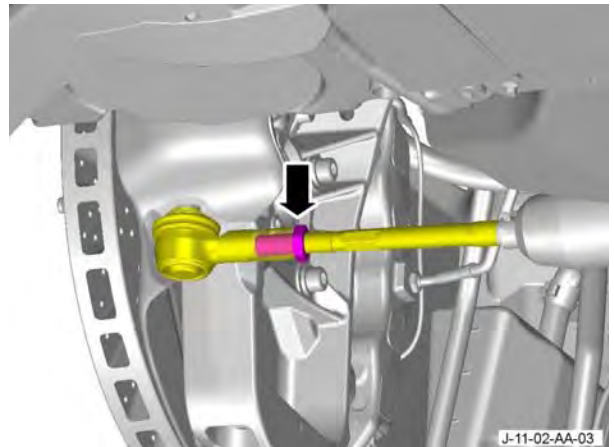
117.  *Note: Make a record of the number of turns to release the track rod from the track rod end.*

Release the track rod from the track rod end.

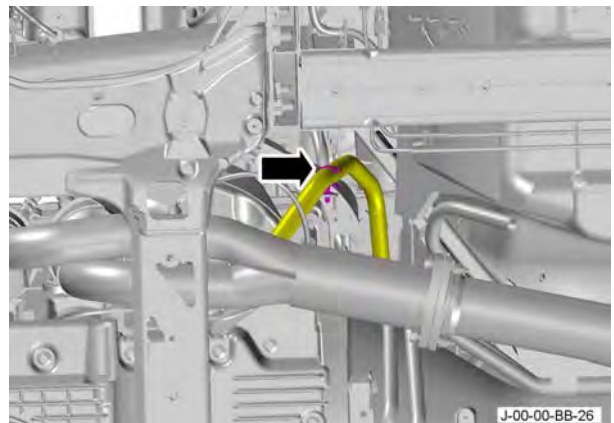


118.  *Note: Make a record of the number of turns to release the track rod from the track rod end.*

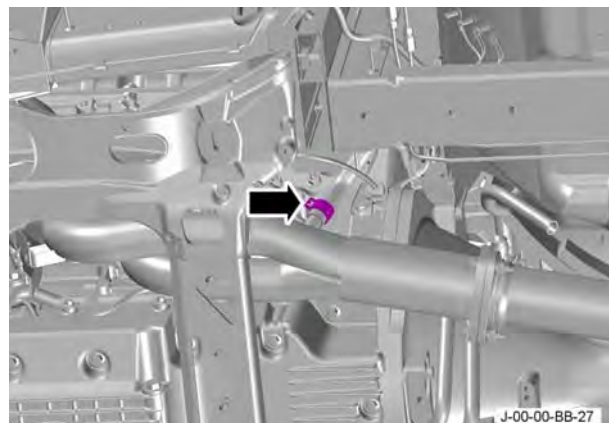
Release the track rod from the track rod end.



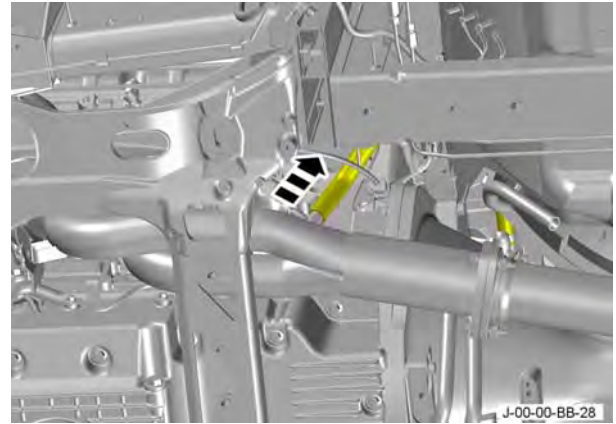
119. Release the coolant hose from the clip that attaches it to the engine.



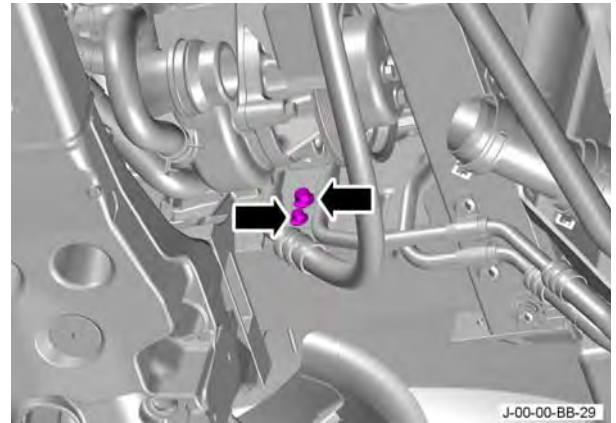
120. Remove the clip that attaches the coolant hose to the coolant pipe.



121. Disconnect the coolant hose from the coolant pipe.

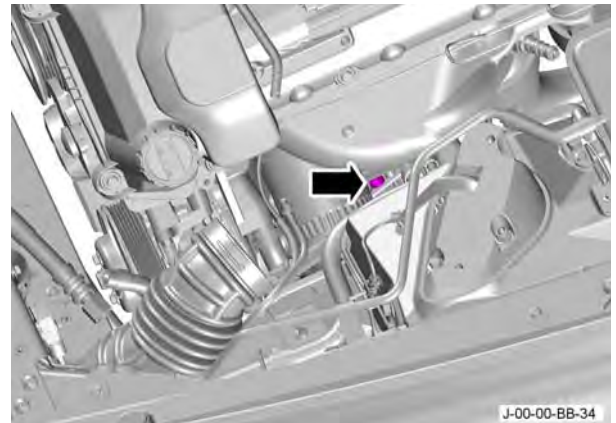



122. Remove the two bolts that attach the PAS pipes to the body.

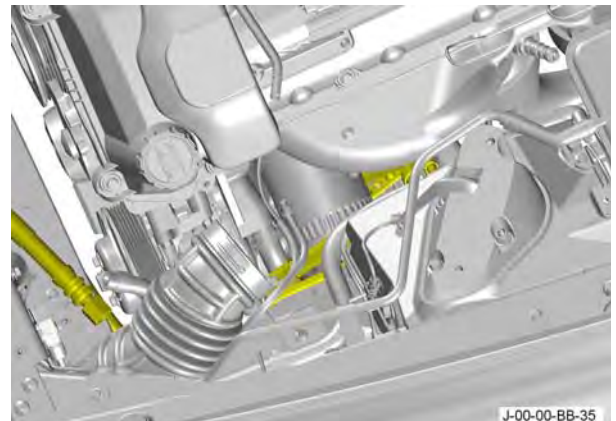


123. Put an applicable container below the PAS rack.

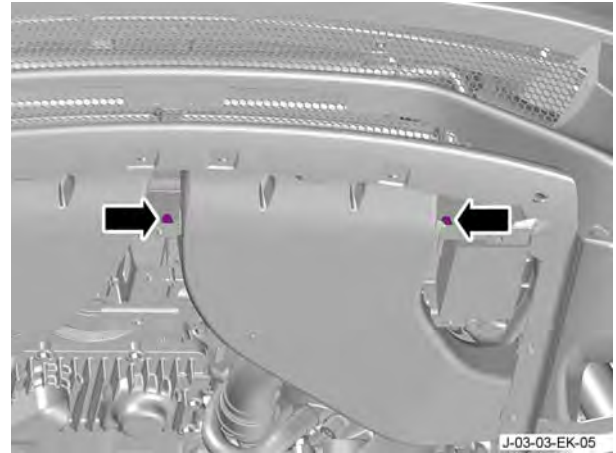
124. Remove the Torx screw that attaches the PAS pipes to the PAS rack.



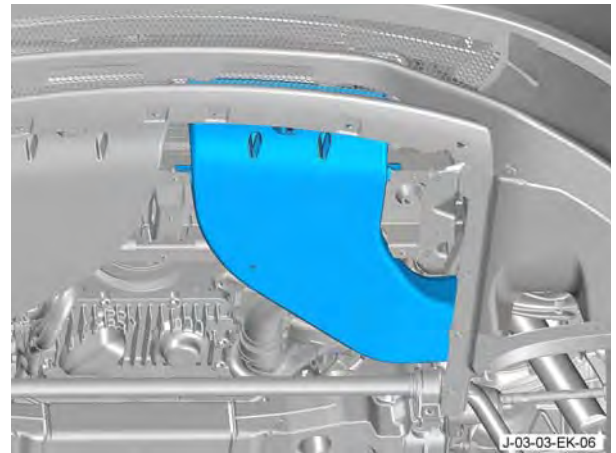
125.  *Note: Install applicable caps to seal the open ports*
Move the PAS pipes away from the PAS rack.



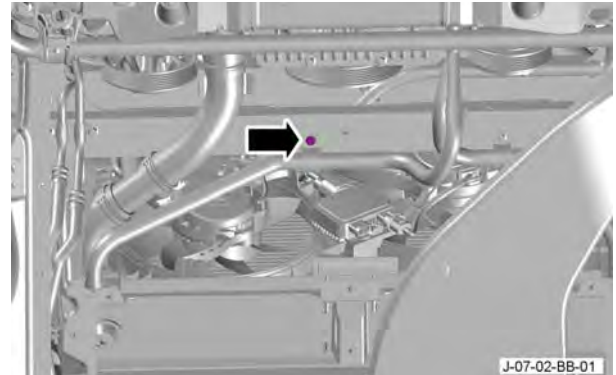
126. Remove the two bolts that attach the left side brake cooling duct to the body.



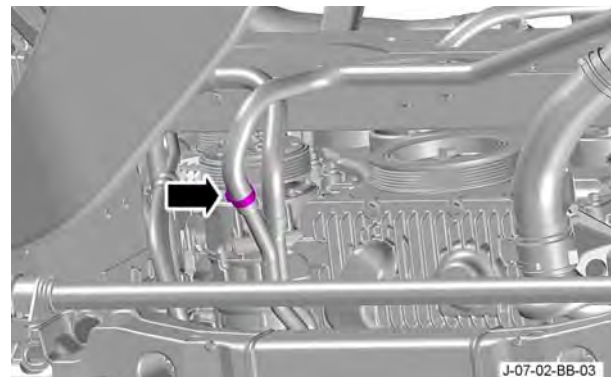
127. Remove the left side brake cooling duct.




128. Remove the bolt that attaches the P-clip that attaches the outlet hose for the transmission oil cooler to the body.



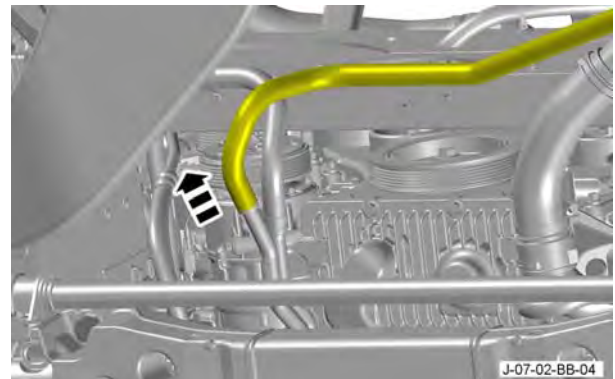
129. Remove the Oetiker clip that attaches the outlet hose for the transmission oil cooler to the engine-bay outlet pipe for the transmission oil cooler.



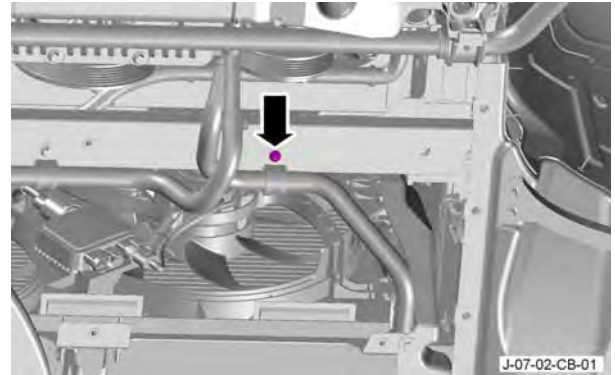
130.  **Caution: Prepare to collect the transmission fluid.**

 *Note: Install applicable caps to seal the open ports.*

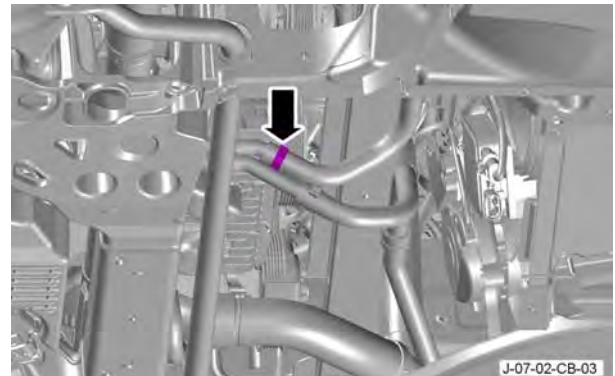
Disconnect the outlet hose for the transmission oil cooler from the engine-bay outlet pipe for the transmission oil cooler.




131. Remove the screw that attaches the inlet hose for the transmission oil cooler to the body.

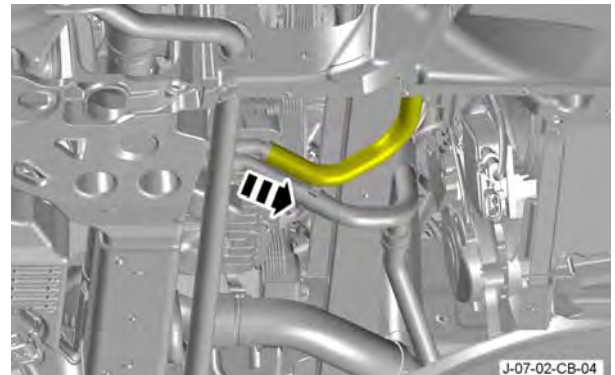


132. Remove the Oetiker clip that attaches the inlet hose for the transmission oil cooler to the engine-bay outlet pipe for the transmission oil cooler.

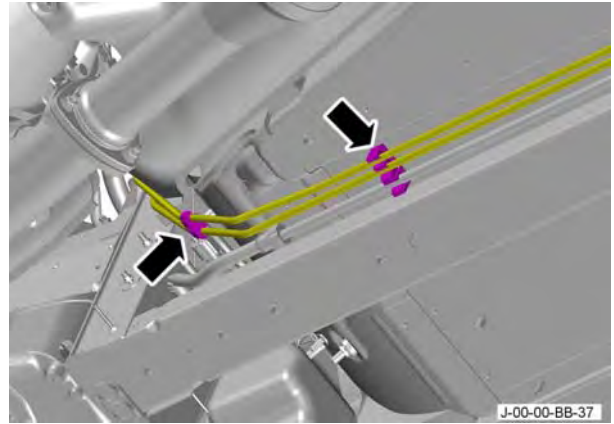


133.  *Note: Install applicable caps to seal the open ports.*

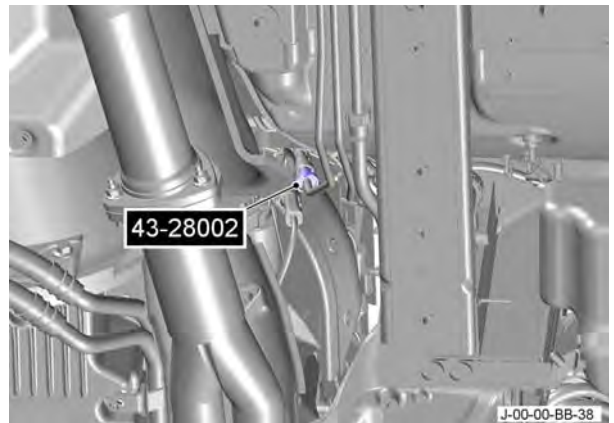
Disconnect the inlet hose for the transmission oil cooler from the engine-bay outlet pipe for the transmission oil cooler.



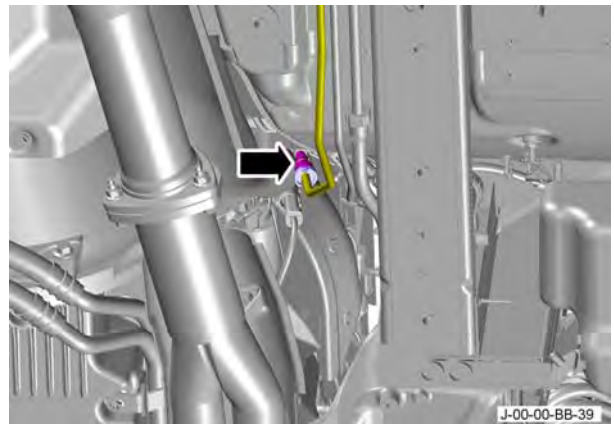
134. Release the fuel pipes from the two clips that attach it to the body.



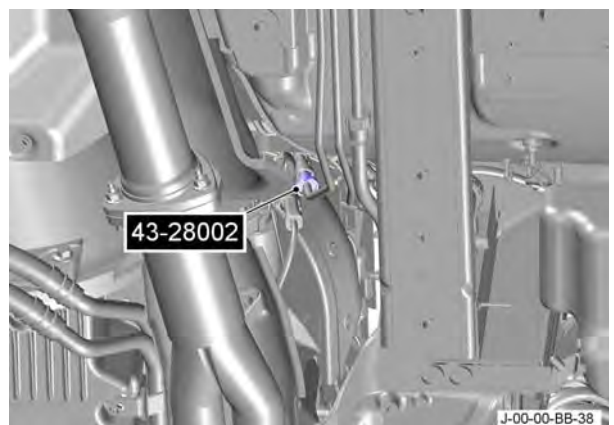
135. Install the special tool on the fuel pipe.



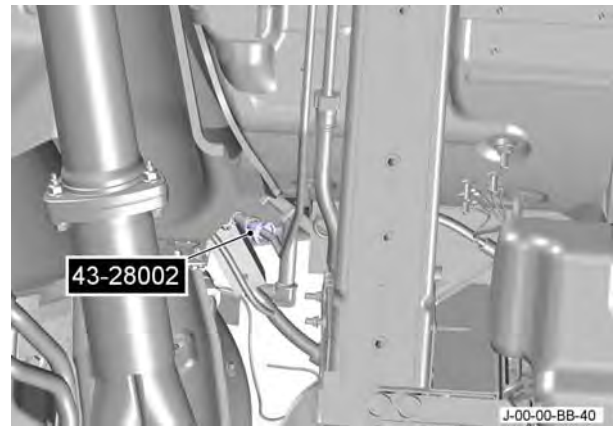
136. **i** *Note: Install applicable caps to seal the open ports.*
Use the special tool to disconnect the fuel pipe from the supply pipe.




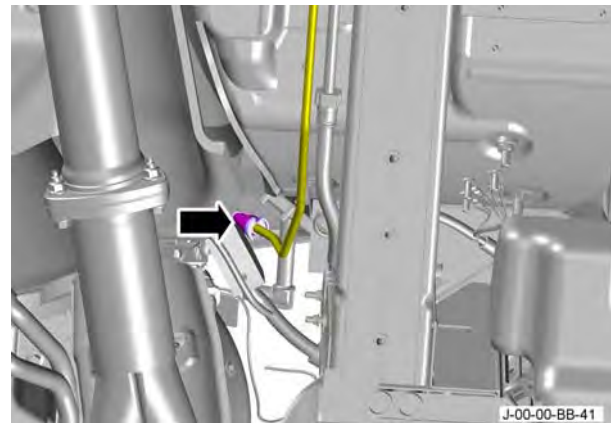
137. Remove the special tool from the fuel pipe.



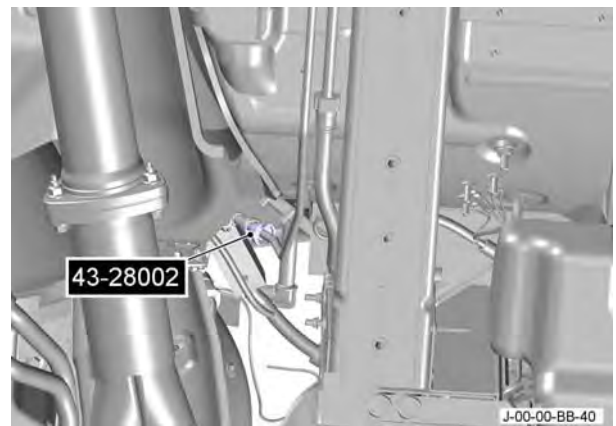
138. Install the special tool on the fuel pipe.



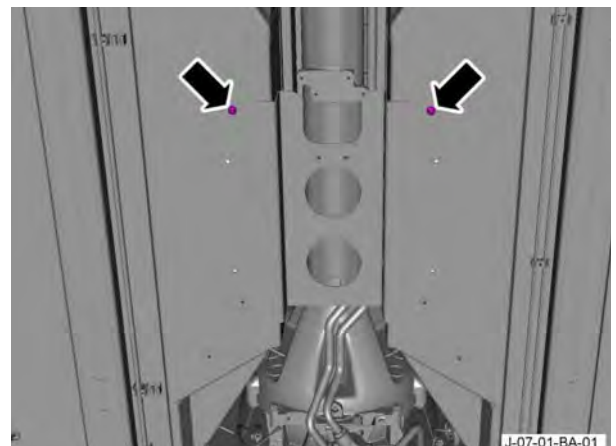
139.  *Note: Install applicable caps to seal the open ports.*
Use the special tool to disconnect the fuel pipe from the supply pipe.



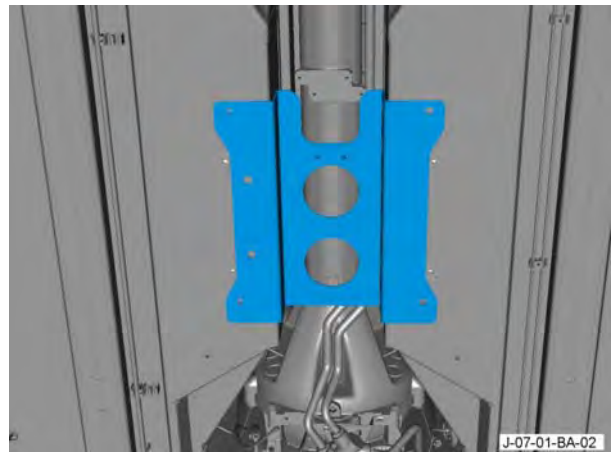
140. Remove the special tool from the fuel pipe.



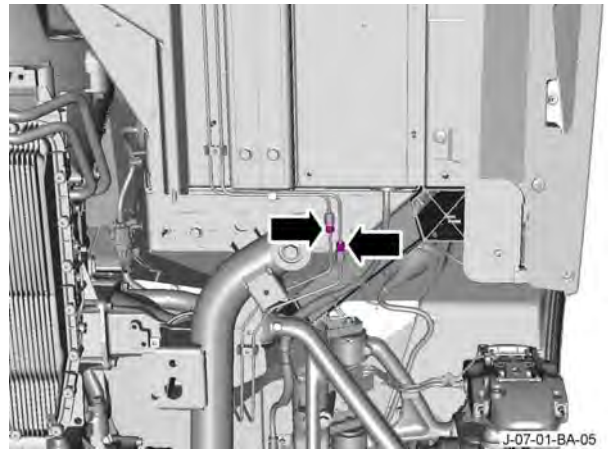
141. Remove the two bolts that attach the centre floor reinforcement to the body.




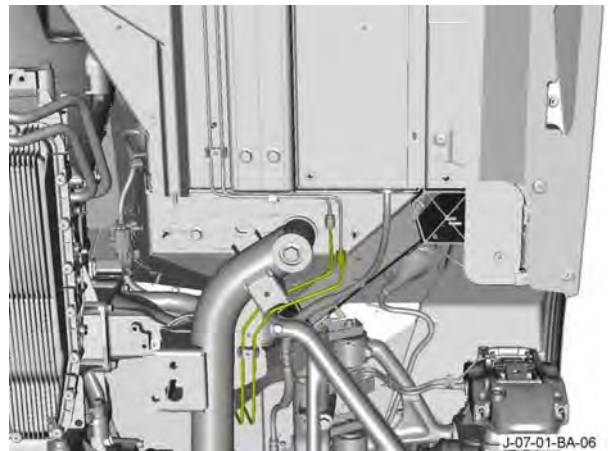
142. Remove the centre floor reinforcement.



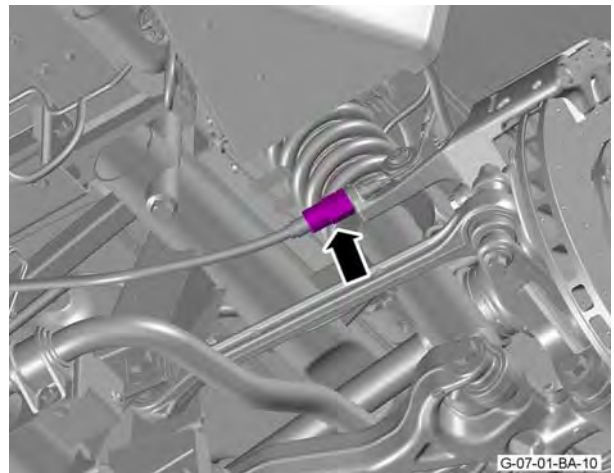
143. Loosen the two brake pipe unions that attach the rear brake pipes to the front brake pipes.



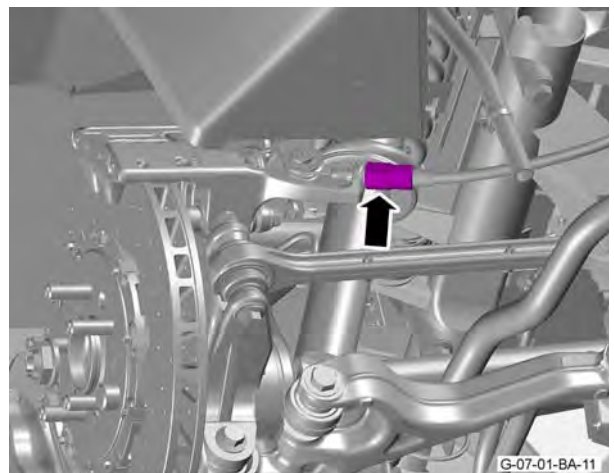
144.  *Note: Install applicable caps to seal the open ports.*
Disconnect the two front brake pipes from the two rear brake pipes.



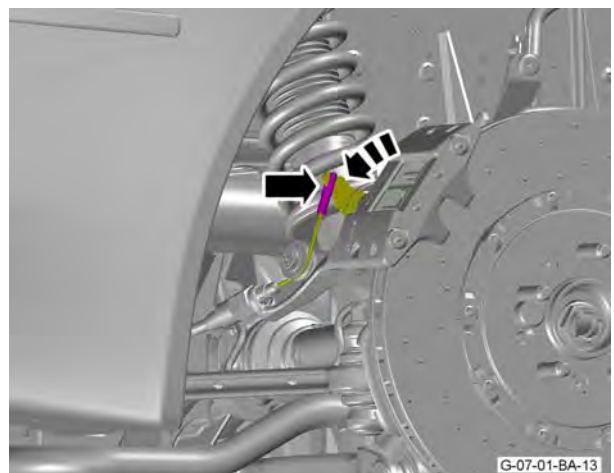
145. Loosen the adjustment nut on the right side handbrake caliper.



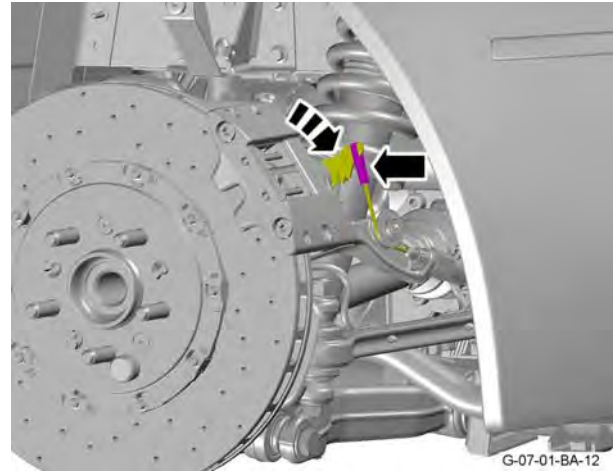
146. Loosen the adjustment nut on the left side handbrake caliper.



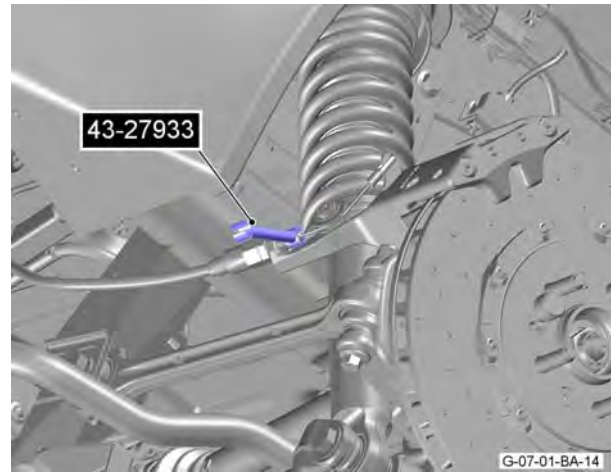
147. Release the handbrake cable eyelet from the right side handbrake caliper.



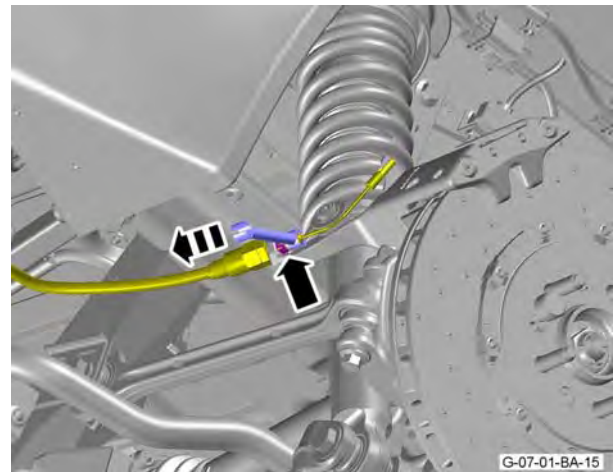
148. Release the handbrake cable eyelet from the left side handbrake caliper.



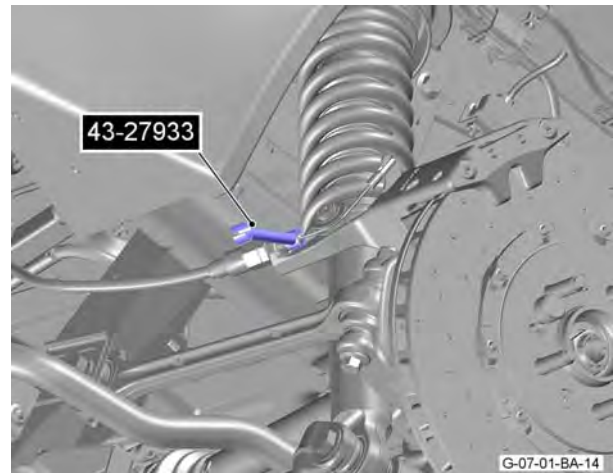
149. Install the special tool on the right side handbrake cable.



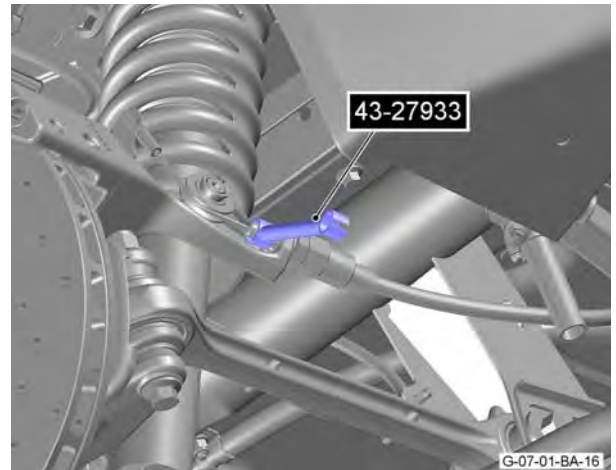
150. Use the special tool to release the right side handbrake cable from the right side handbrake caliper.



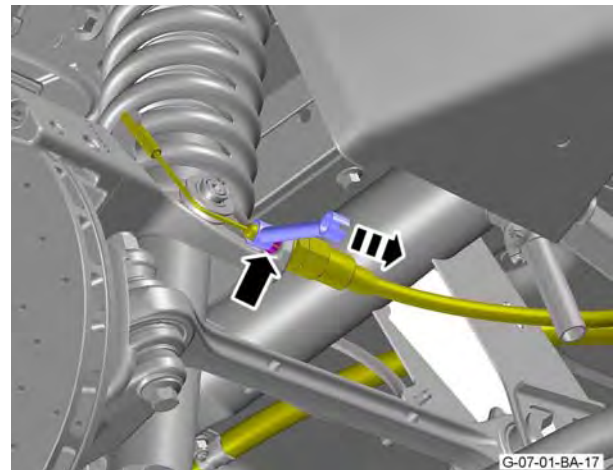
151. Remove the special tool from the right side handbrake cable.



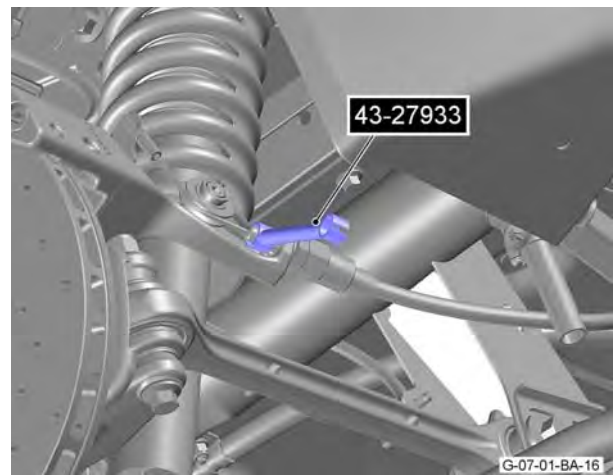
152. Install the special tool on the left side handbrake cable.



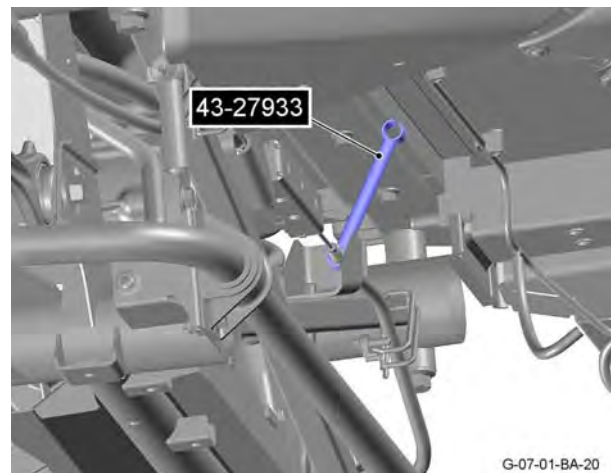
153. Use the special tool to release the left side handbrake cable from the left side handbrake caliper.



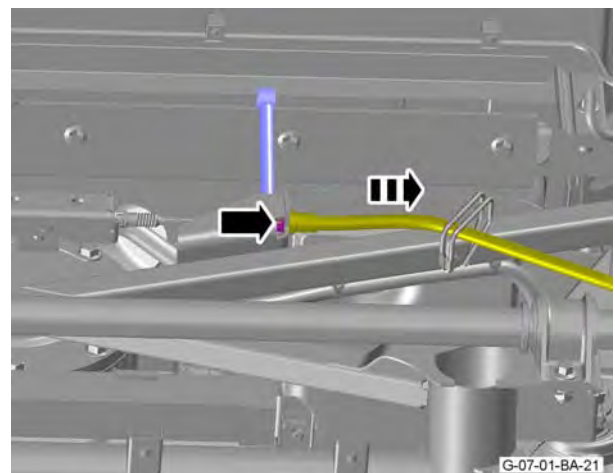
154. Remove the special tool from the left side handbrake cable.



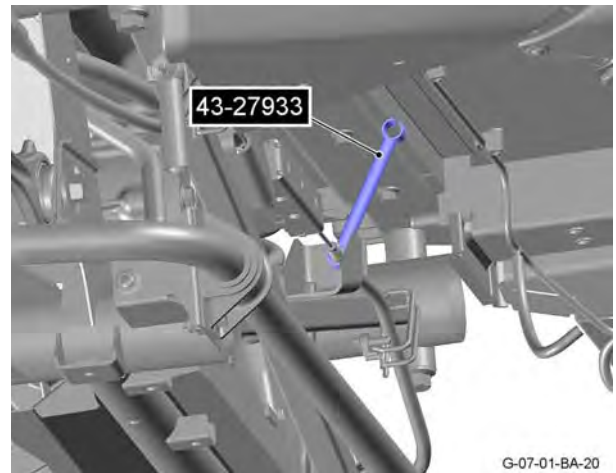
155. Install the special tool on the right side handbrake cable.



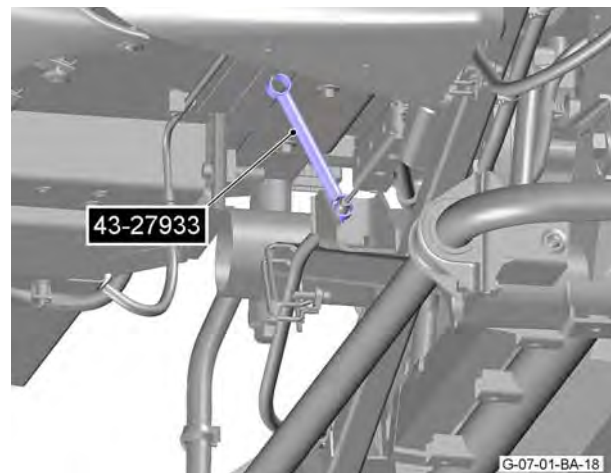
156. Use the special tool to release the right side handbrake cable from the rear subframe.



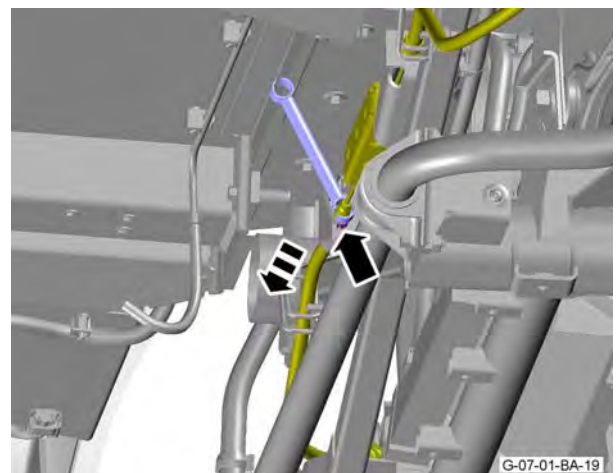
157. Remove the special tool from the right side handbrake cable.



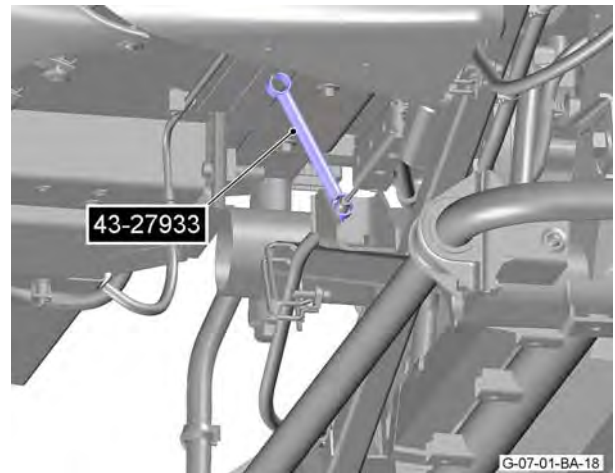
158. Install the special tool on the left side handbrake cable.



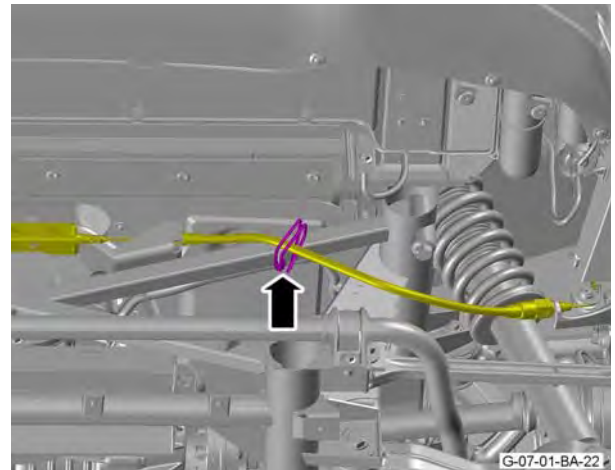
159. Use the special tool to release the left side handbrake cable from the rear subframe.



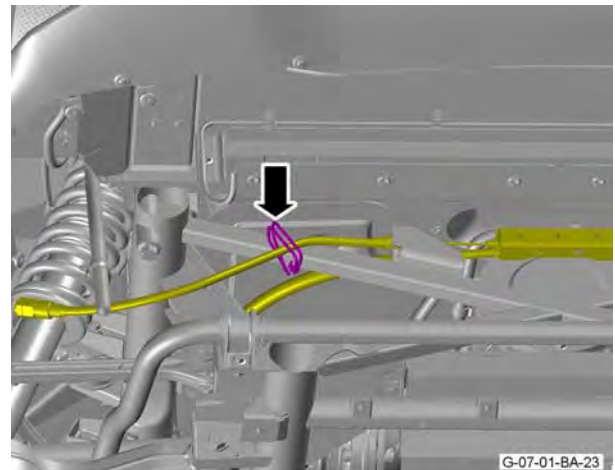
160. Remove the special tool from the left side handbrake cable.



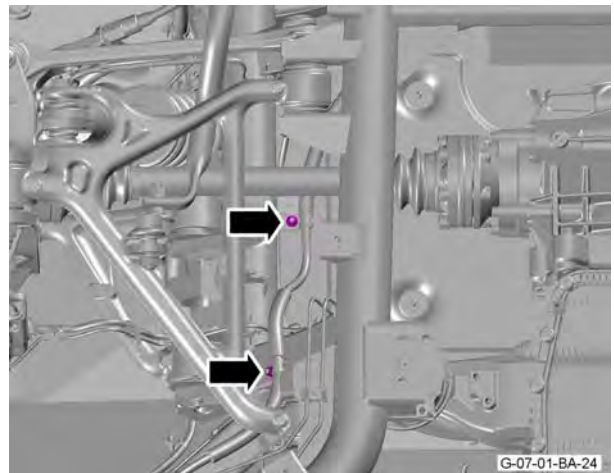
161. Release the right side handbrake cable from the clip that attaches it to the rear subframe.



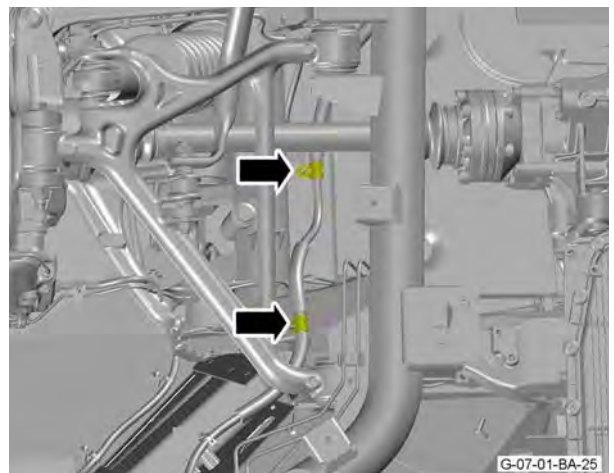
162. Release the left side handbrake cable from the clip that attaches it to the rear subframe.



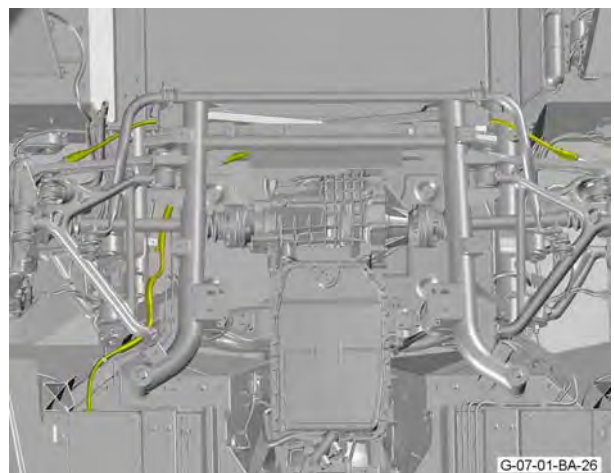
163. Remove the two nuts that attach the handbrake cable to the rear subframe.



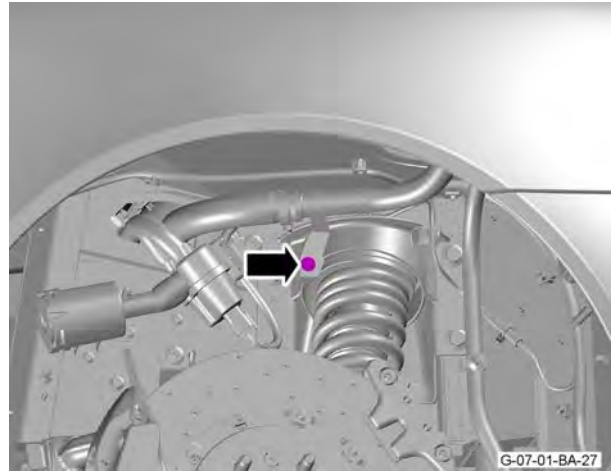
164. Release the handbrake cable from the two studs that attach it to the rear subframe.



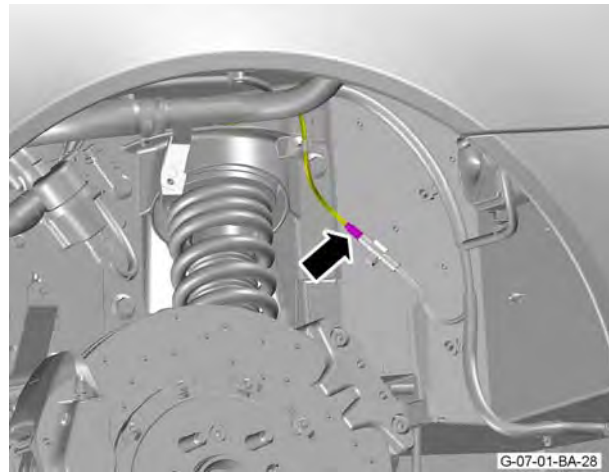
165. Move the handbrake cable away from the rear subframe.



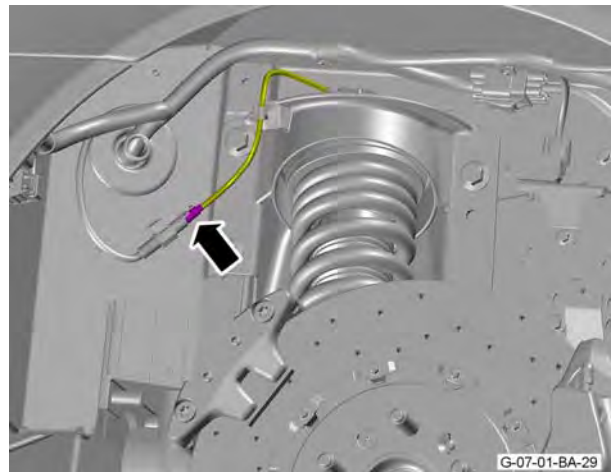
166. Remove the bolt that attaches the fuel filler pipe to the body.



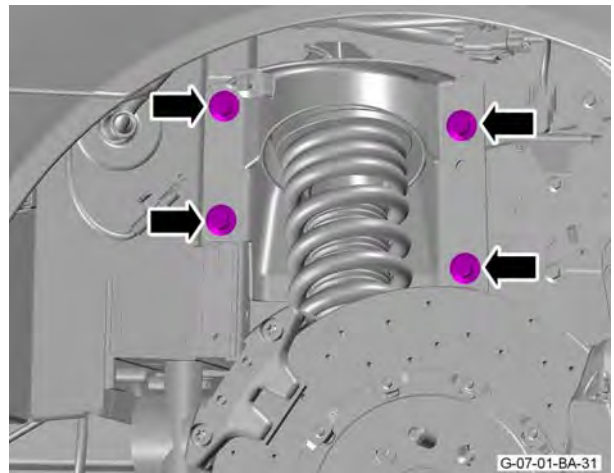
167. Disconnect the electrical connector from the wiring harness for the rear bumper.



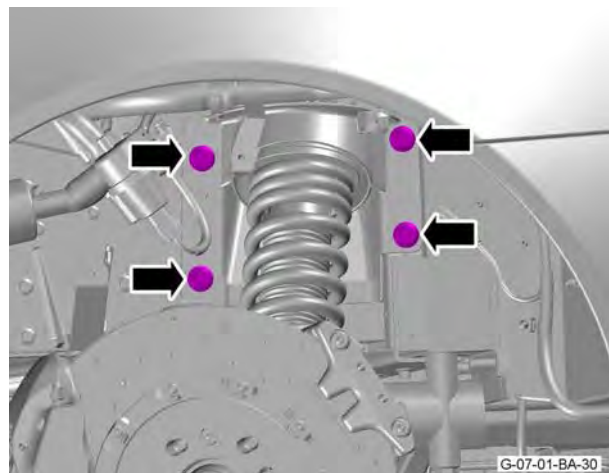
168. Disconnect the electrical connector from the wiring harness for the cabin.



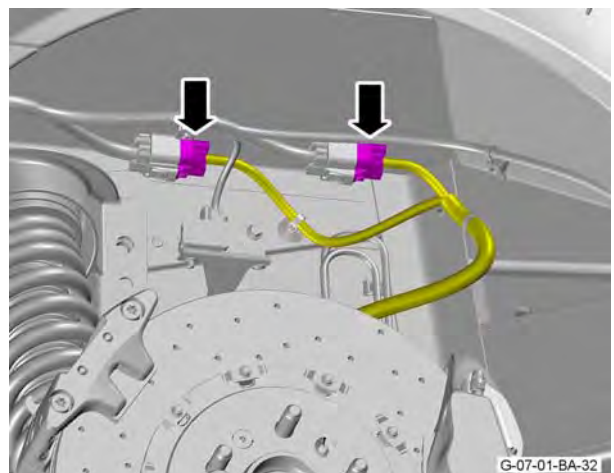
169. Remove the four bolts that attach the right side spring and damper mount plate to the body.



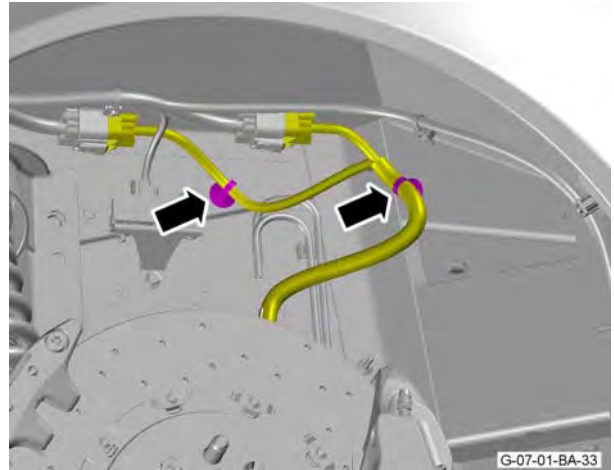
170. Remove the four bolts that attach the left side spring and damper mount plate to the body.



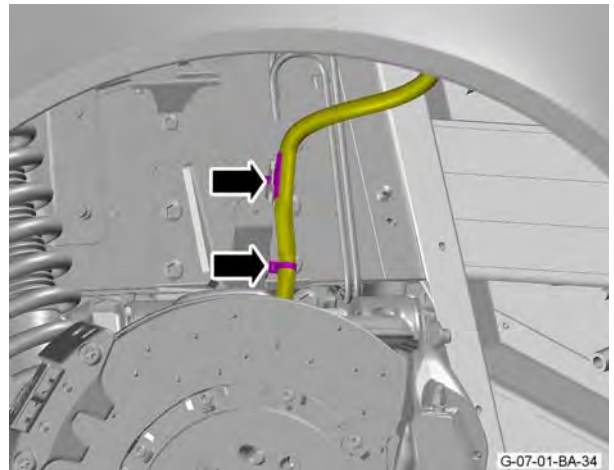
171. Disconnect the two electrical connectors from the wiring harness for the cabin.



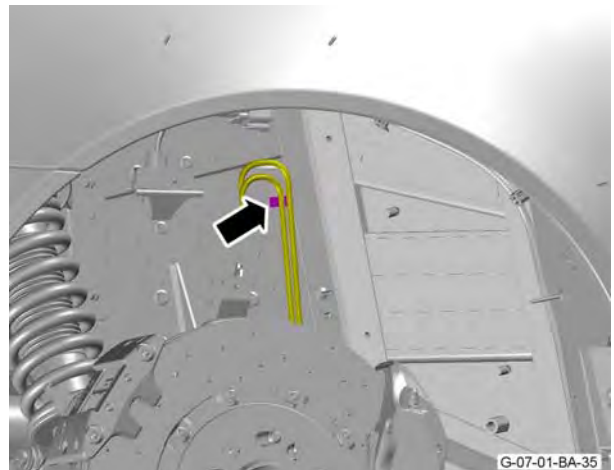
172. Release the wiring harness for the transmission from the two clips that attach it to the body.



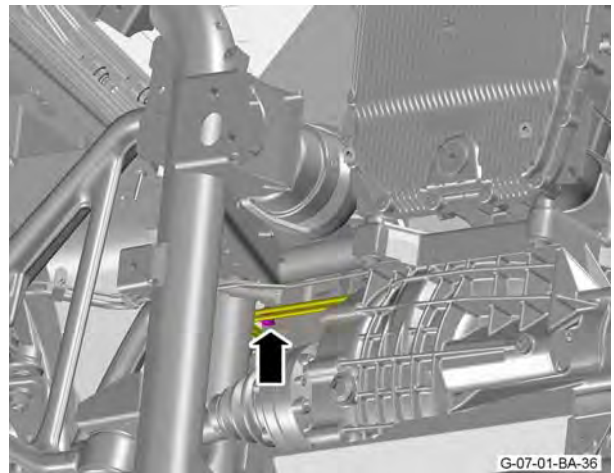
173. Release the wiring harness for the transmission from the two clips that attach it to the body.



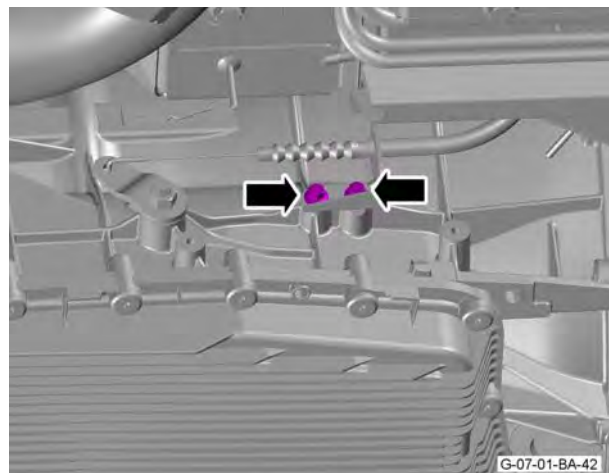
174. Release the breather pipes from the clip that attaches them to the body.



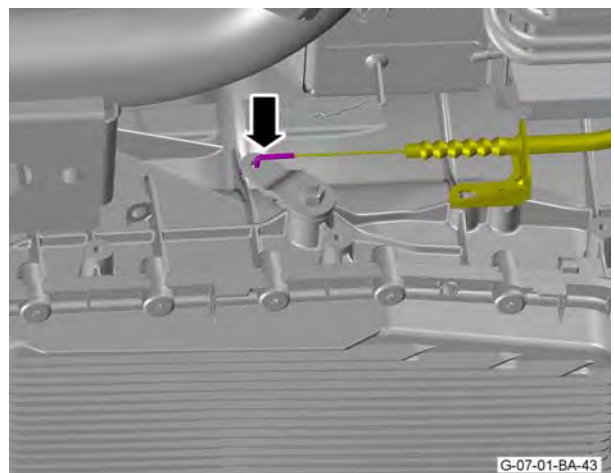
175. Release the breather pipes from the clip that attaches them to the body.



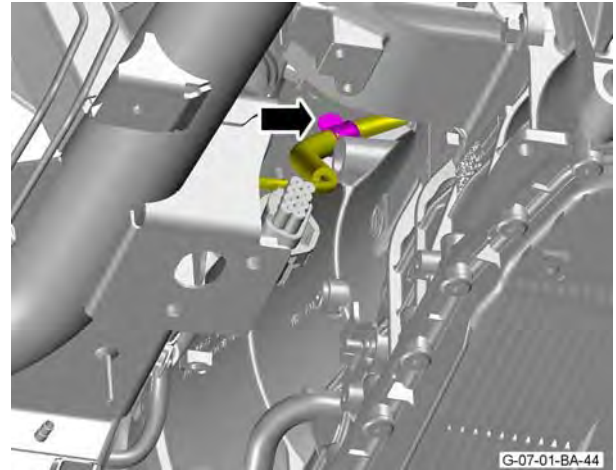
176. Remove the two bolts that attach the manual release cable for the transmission to the transmission.



177. Release the manual release cable for the transmission from the transmission.

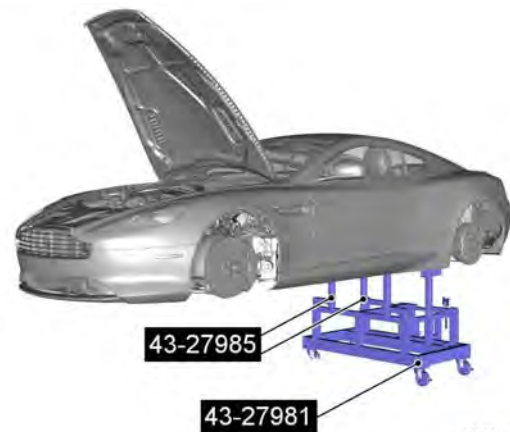


178. Release the manual release cable for the transmission from the clip that attaches it to the transmission.



179. Put marks on the rear subframe and body to show the correct installation location.
180. Put marks on the front subframe and body to show the correct installation location.
181. **Warning: The aid of one other technician is necessary to do the step that follows.**




Put the multi-purpose trolley in the correct location under the rear subframe.



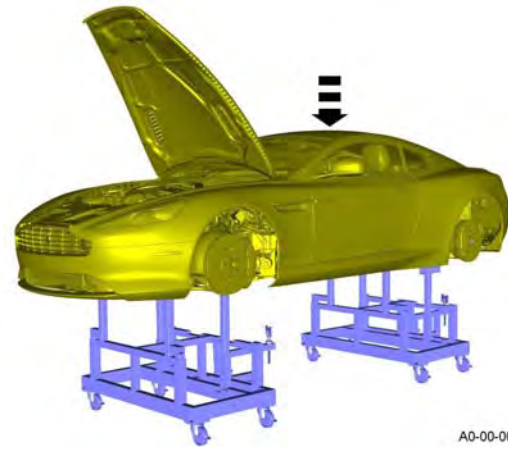
182. **Warning: The aid of one other technician is necessary to do the step that follows.**

Put the multi-purpose trolley in the correct location under the front subframe.



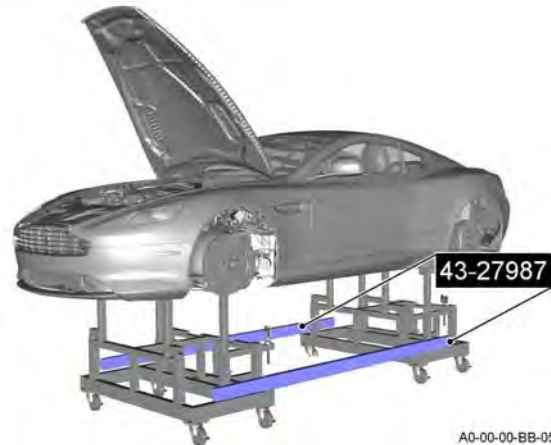
183.  **Warning: The aid of one other technician is necessary to make sure that the trolley aligns with the rear subframe.**
-  **Warning: The aid of one other technician is necessary to make sure that the trolley aligns with the front subframe.**
-  **Warning: Make sure that the trolley is aligned to the holes in the subframe correctly. Failure to do this can cause serious injury and damage to the vehicle.**

Lower the vehicle on the lift until the subframes touch the multi-purpose trollies.



A0-00-00-BB-03

184. Install the protective sill covers.
185. Install an applicable protective cover over the centre console.
186. Put an applicable strap through the vehicle to attach it to the lift.
187. Put the connection bars in the correct location on the multi-purpose trollies.



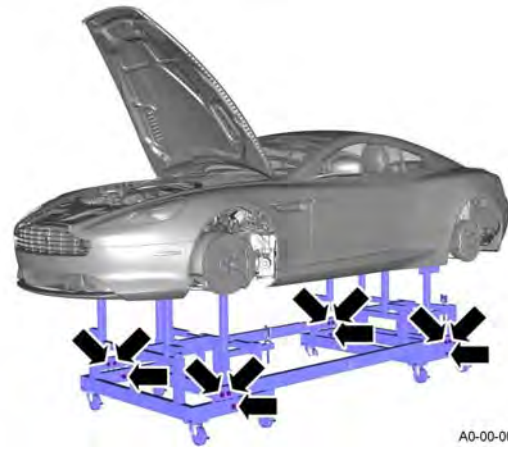
A0-00-00-BB-05

188. Install the four special tools to the connection bars.



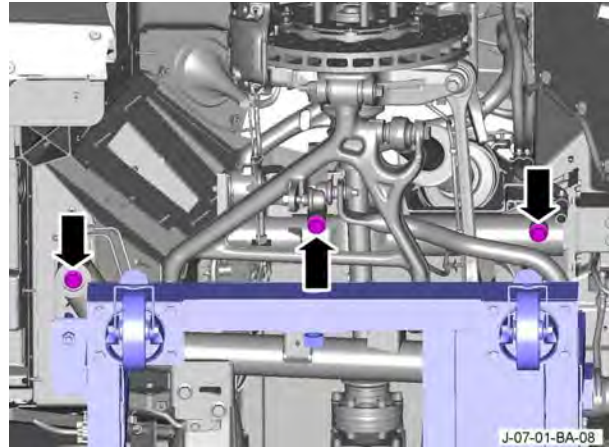
A0-00-00-BB-06

189. Install and tighten the 12 bolts and 12 nuts that attach the special tools and connection bars to the multi-purpose trollies.



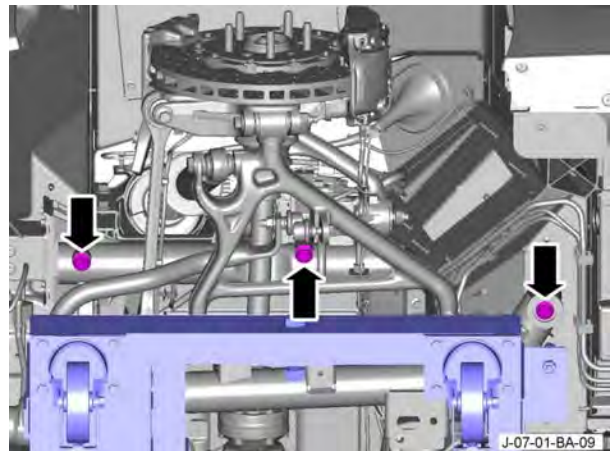
A0-00-00-BB-07

190. Remove the three bolts that attach the left side of the rear subframe to the body.



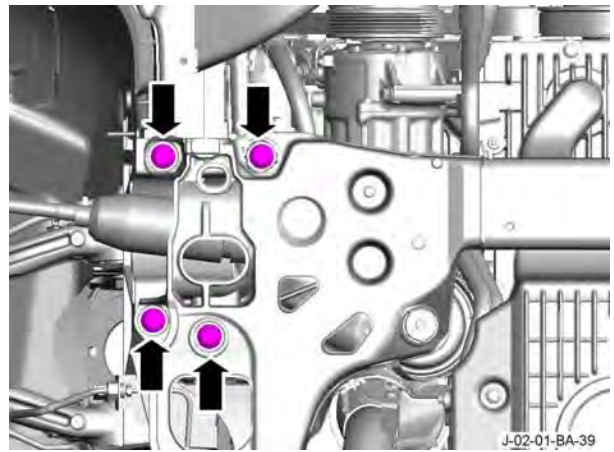
J-07-01-BA-08

191. Remove the three bolts that attach the right side of the rear subframe to the body.

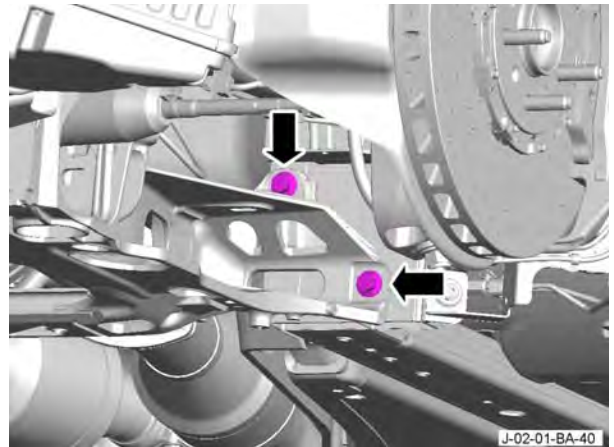


J-07-01-BA-09

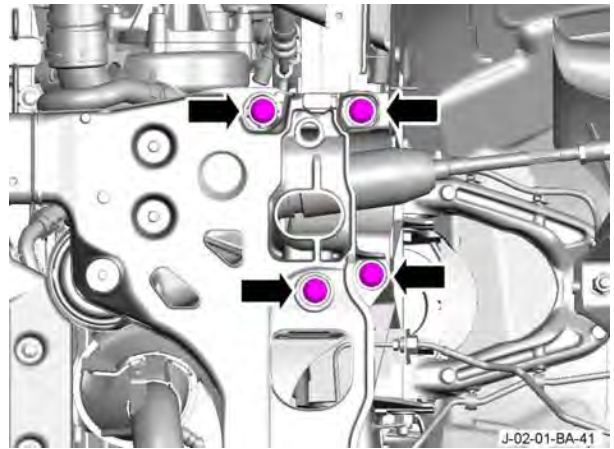
192. Remove the four bolts that attach the front right side of the subframe to the front structure.



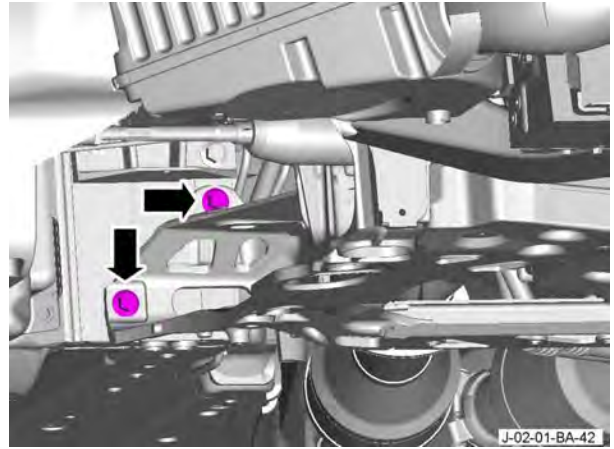
193. Remove the two bolts that attach the rear right side of the subframe to the body.




194. Remove the four bolts that attach the front left side of the subframe to the front structure.

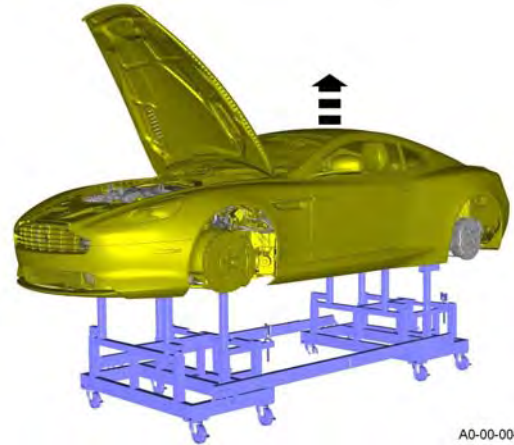



195. Remove the two bolts that attach the rear left side of the subframe to the body.



196.  **Caution: The aid of another technician is required to lift the body off the drive train.**

Carefully adjust the height of the body to clear the drive train.




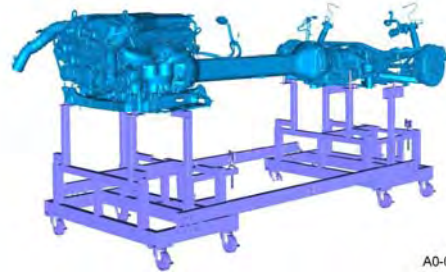
197.  **Warning: The aid of two other technicians is necessary to make sure that the trolley is controlled.**

Move the drive train away from the body.




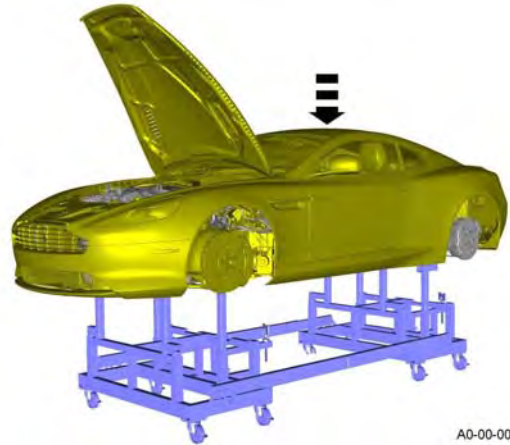
Install

1.  **Warning: The aid of two other technicians is necessary to make sure that the trolley is controlled.**
Move the drive train below the body.



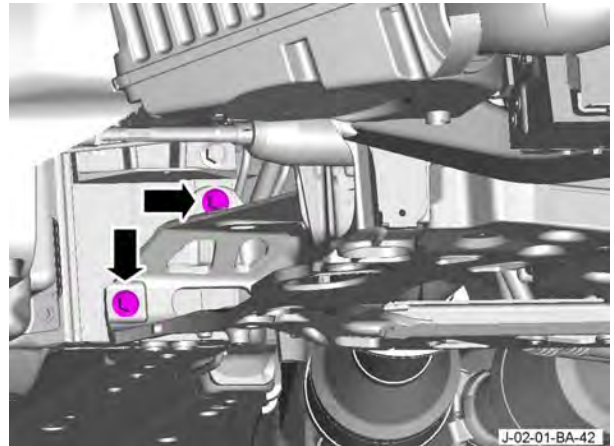
A0-00-00-BB-10

2.  **Caution: The aid of another technician is required to lift the body off the drive train.**
Carefully lower the body on to the drive train.



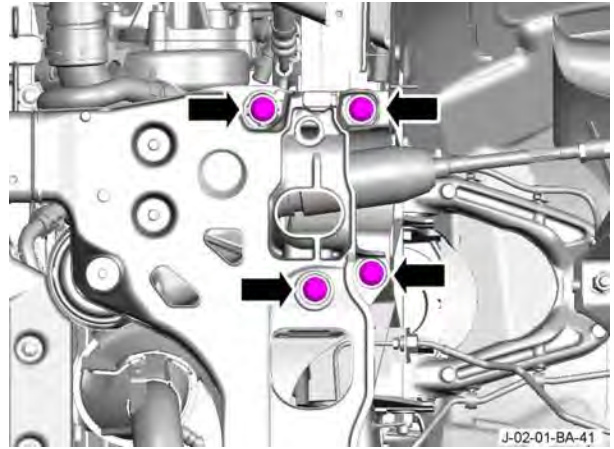
A0-00-00-BB-09

3. Install, but do not fully tighten, the two bolts that attach the rear left side of the subframe to the body.

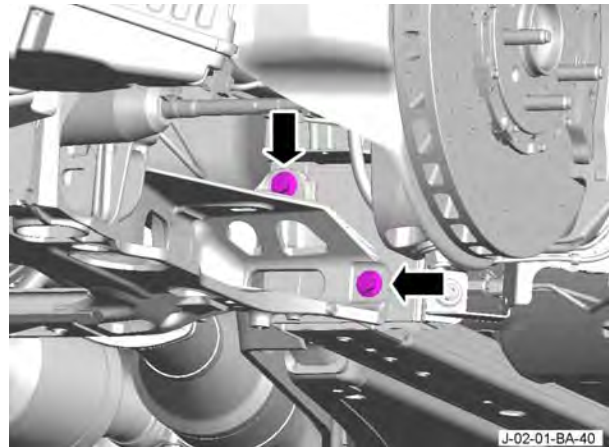


J-02-01-BA-42

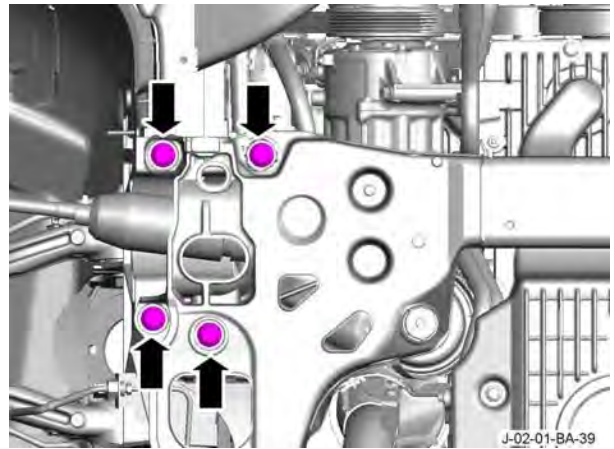
- 4. Install, but do not fully tighten, the four bolts that attach the front left side of the subframe to the front structure.



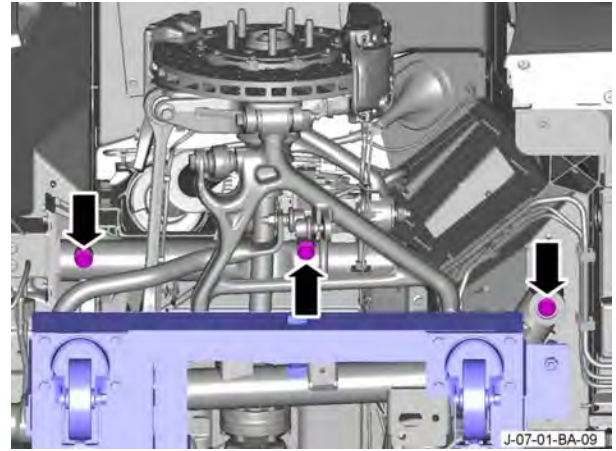
- 5. Install, but do not fully tighten, the two bolts that attach the rear right side of the subframe to the body.



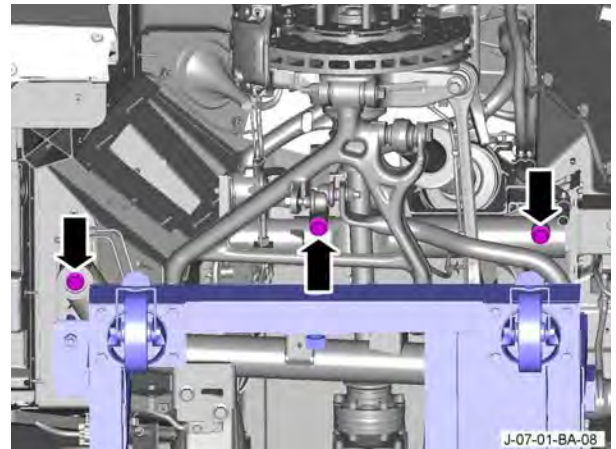
- 6. Install, but do not fully tighten, the four bolts that attach the front right side of the subframe to the body.



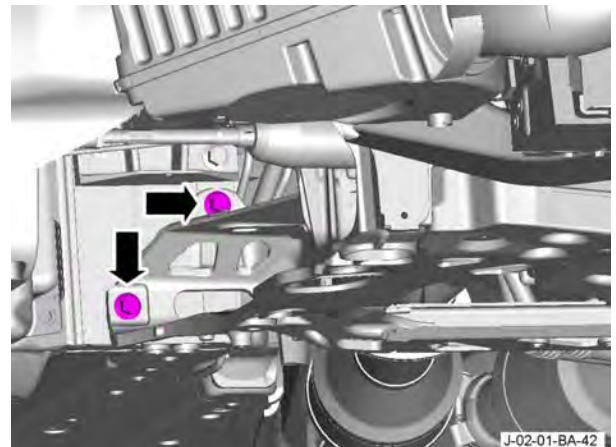
7. Install, but do not fully tighten, the three bolts that attach the right side of the rear subframe to the body.



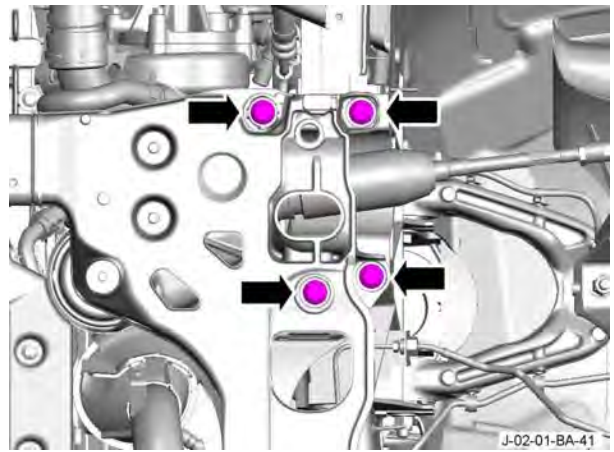
8. Install, but do not fully tighten, the three bolts that attach the right side of the rear subframe to the body.



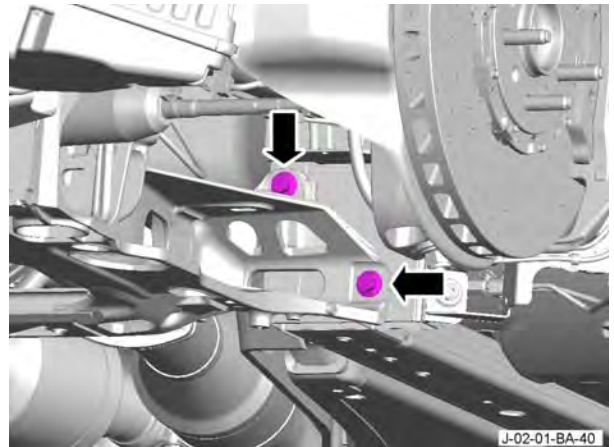
9. Make sure that the rear subframe and bolts align with the marks made in the removal procedure.
10. Make sure that the front subframe and bolts align with the marks made in the removal procedure.
11. Torque the two bolts that attach the rear left side of the subframe to the body to 115 Nm.



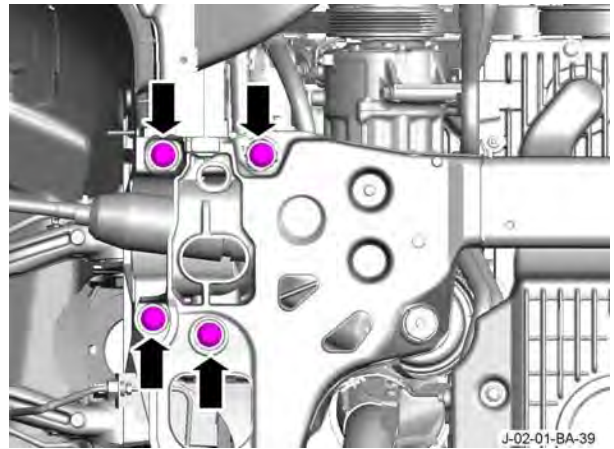
12. Torque the four bolts that attach the rear left side of the subframe to the body to 115 Nm.



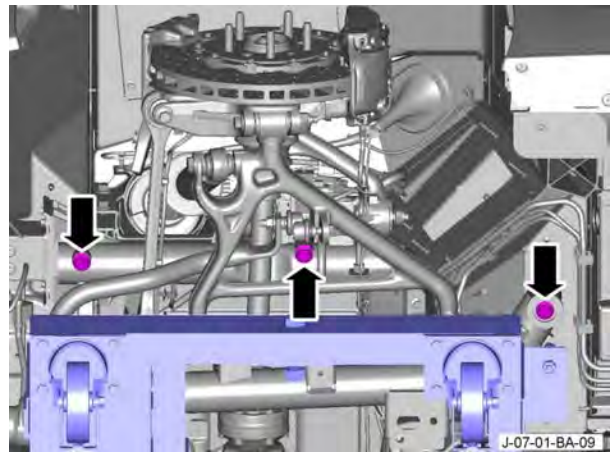
13. Torque the two bolts that attach the rear right side of the subframe to the body to 115 Nm.



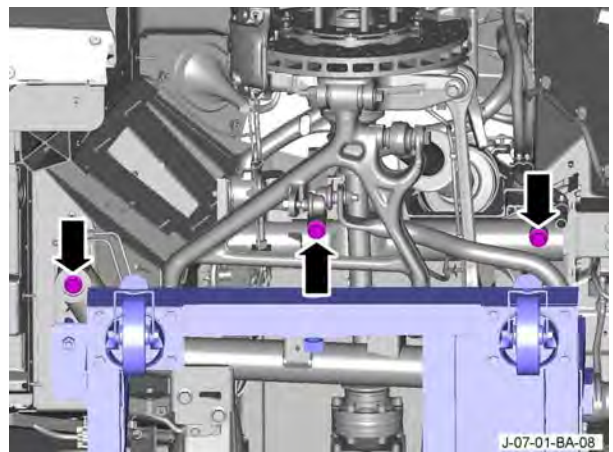
14. Torque the four bolts that attach the front right side of the subframe to the body to 115 Nm.



15. Torque the three bolts that attach the right side of the rear subframe to the body to 175 Nm.



16. Torque the three bolts that attach the left side of the rear subframe to the body to 175 Nm.



17. Remove the 12 bolts and 12 nuts that attach the special tools and connection bars to the multi-purpose trollies.



18. Remove the four special tools from the connection bars.




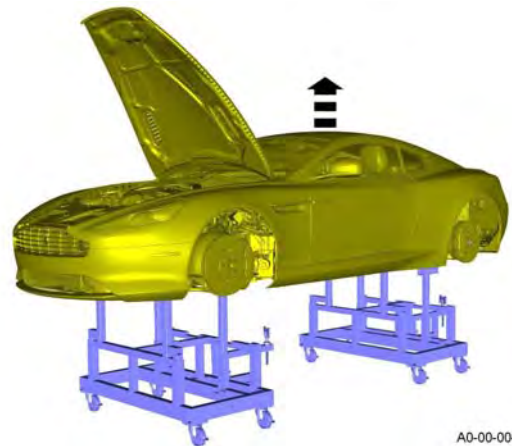
A0-00-00-BB-14

19. Remove the connection bars from the multi-purpose trollies.




A0-00-00-BB-13

20. Remove strap that attaches the vehicle to the lift.
21. Remove the applicable protective cover on the centre console.
22. Remove the protective sill covers.
23.  **Warning: The aid of one other technician is necessary to do the step that follows.**
Lift the vehicle, so that the vehicle is away from the multi-purpose trollies.




A0-00-00-BB-04

24.  **Warning: The aid of one other technician is necessary to do the step that follows.**
Remove the multi-purpose trolley from under the front subframe.



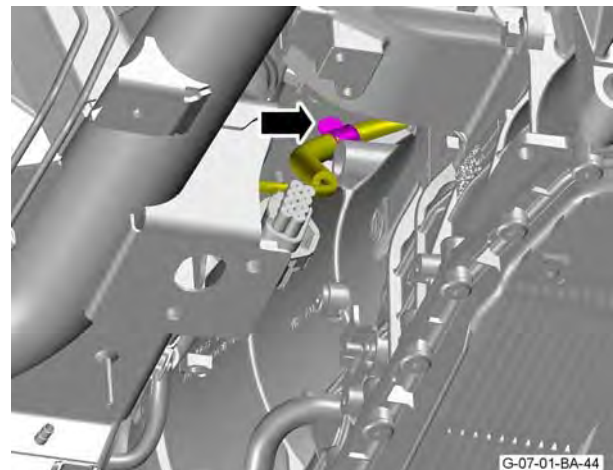
A0-00-00-BB-12

25.  **Warning: The aid of one other technician is necessary to do the step that follows.**
Remove the multi-purpose trolley from under the rear subframe.



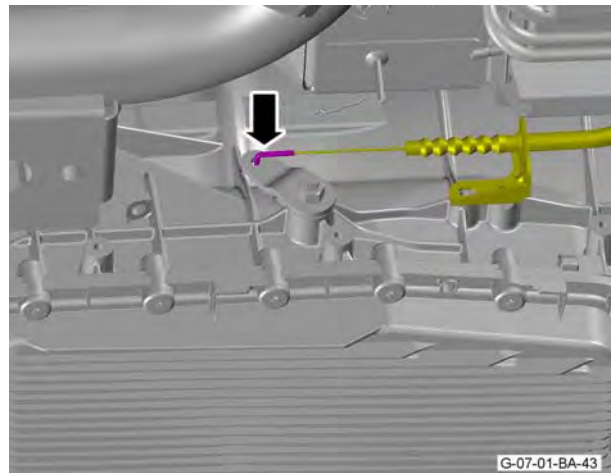
A0-00-00-BB-11

26. Install the manual release cable for the transmission to the clip that attaches it to the transmission.

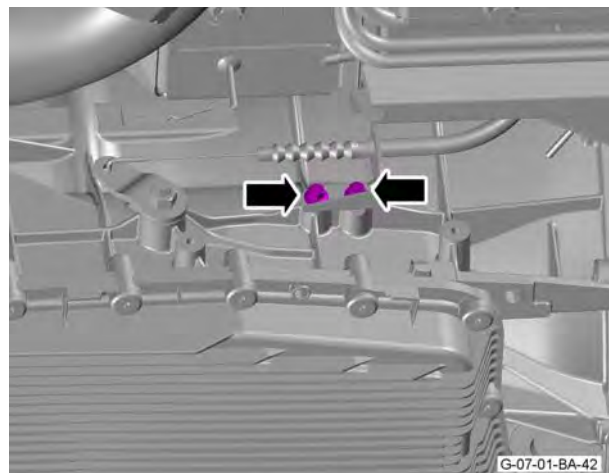


G-07-01-BA-44

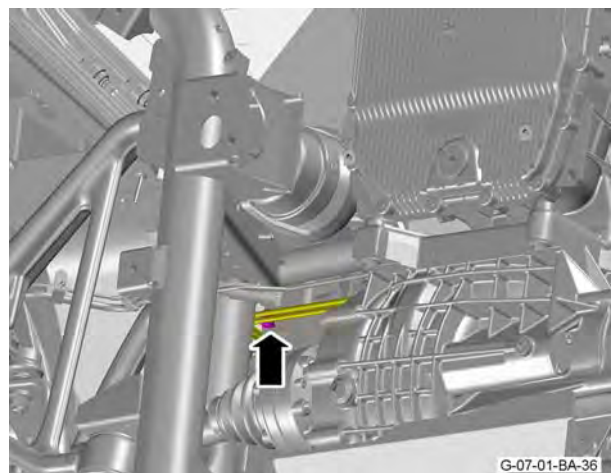
27. Install the manual release cable for the transmission to the transmission.



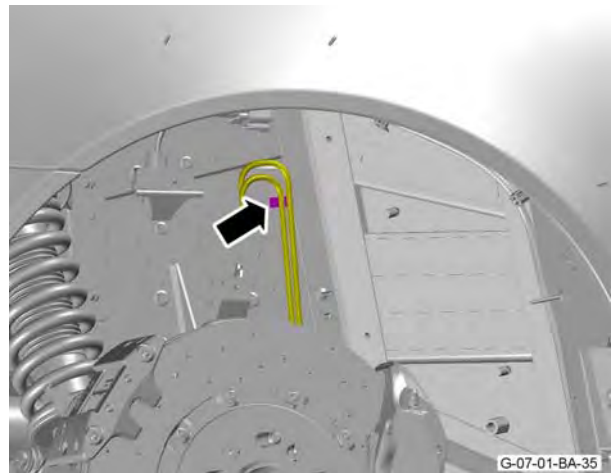
28. Install and torque the two bolts that attach the manual release cable for the transmission to the transmission to 9 Nm.



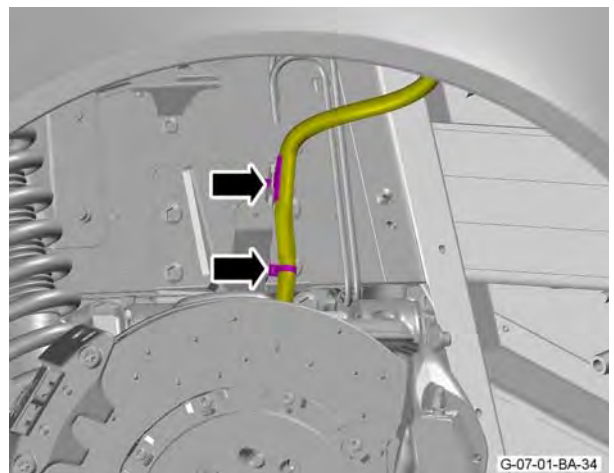
29. Install the breather pipes to the clip that attaches them to the body.



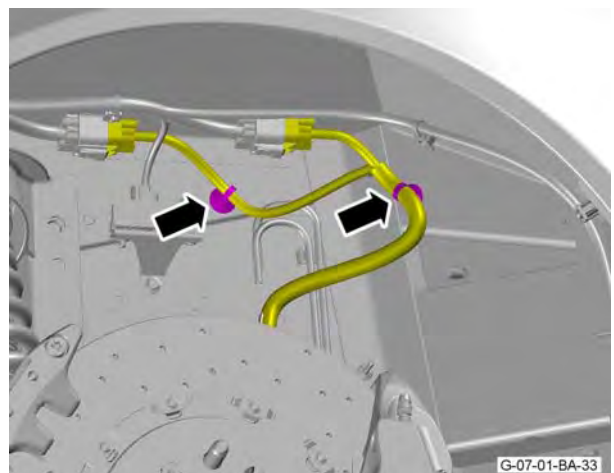
30. Install the breather pipes to the clip that attaches them to the body.



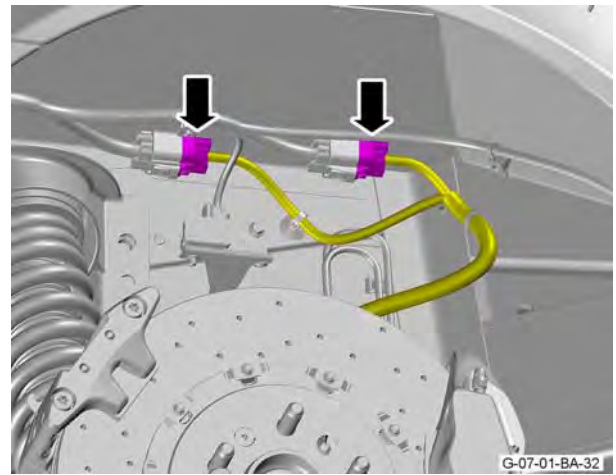
31. Install the wiring harness for the transmission to the two clips that attach it to the body.



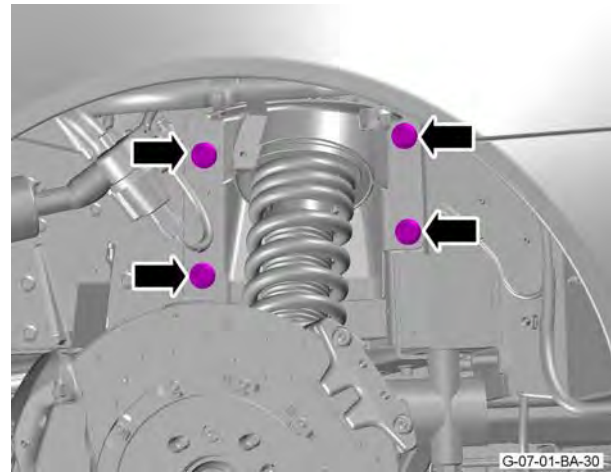
32. Install the wiring harness for the transmission to the two clips that attach it to the body.



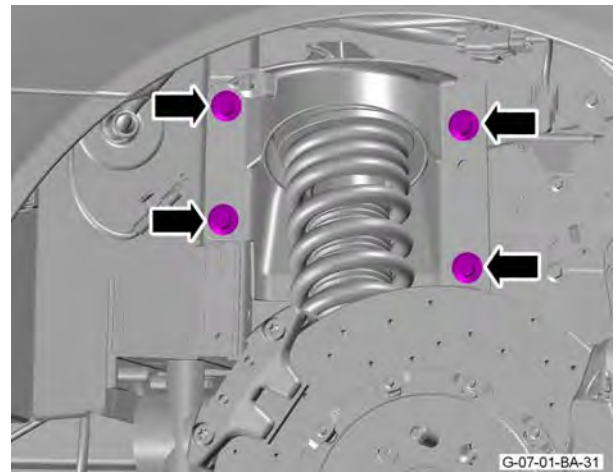
- 33. Connect the two electrical connectors to the wiring harness for the cabin.



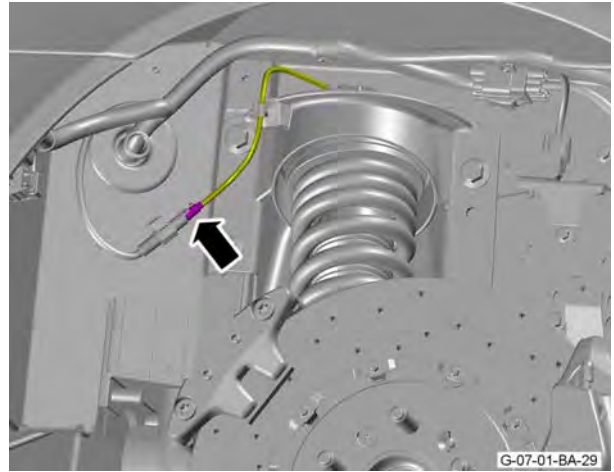
- 34. Install and torque the four bolts that attach the left side spring and damper assembly mounting plate to the body to 80 Nm.



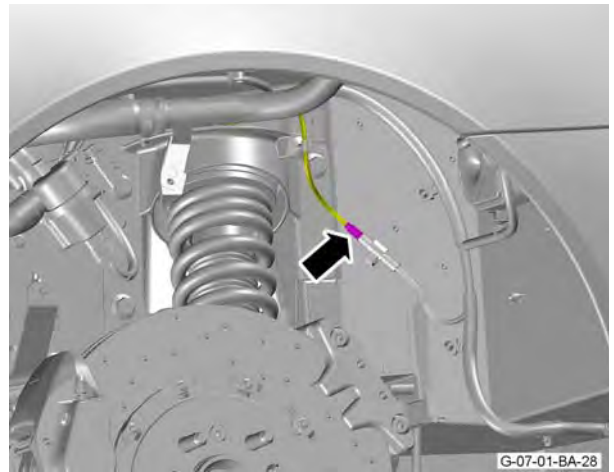
- 35. Install and torque the four bolts that attach the right side spring and damper assembly mounting plate to the body to 80 Nm.



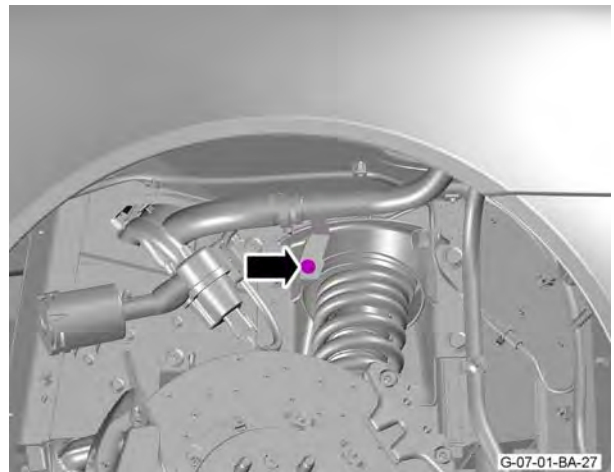
36. Connect the electrical connector to the wiring harness for the cabin.



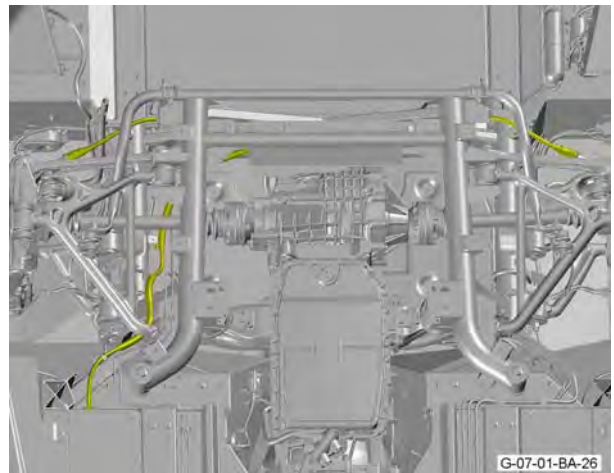
37. Connect the electrical connector to the wiring harness for the rear bumper.



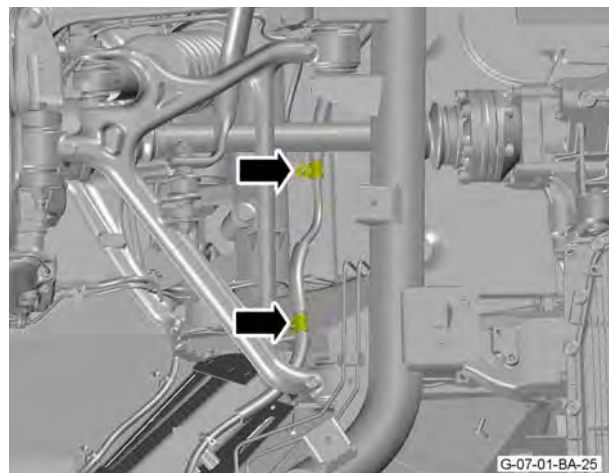
38. Install and torque the bolt that attaches the fuel filler pipe to the body to 9 Nm.



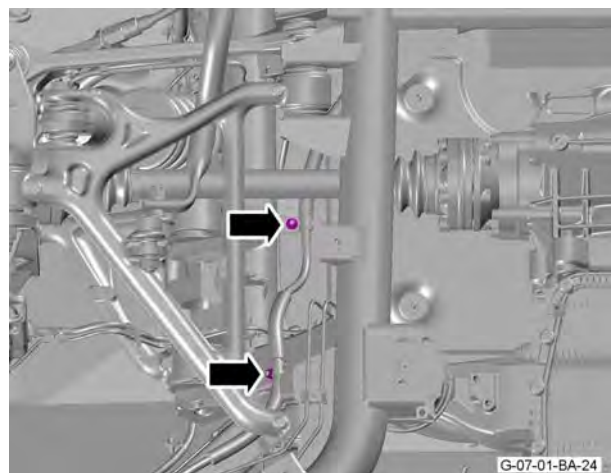
39. Move the handbrake cable into the correct position.



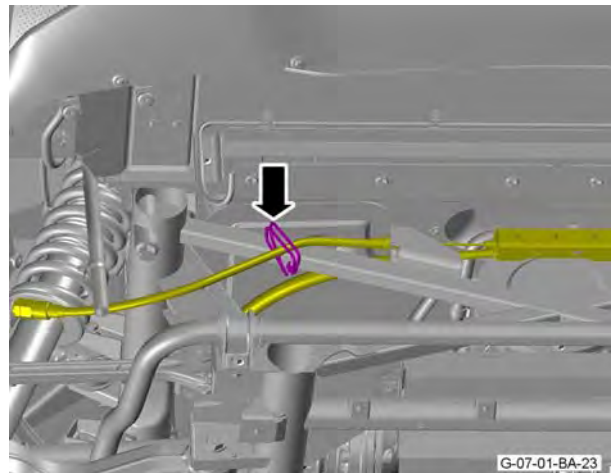
40. Install the handbrake cable to the two studs that attach it to the rear subframe.



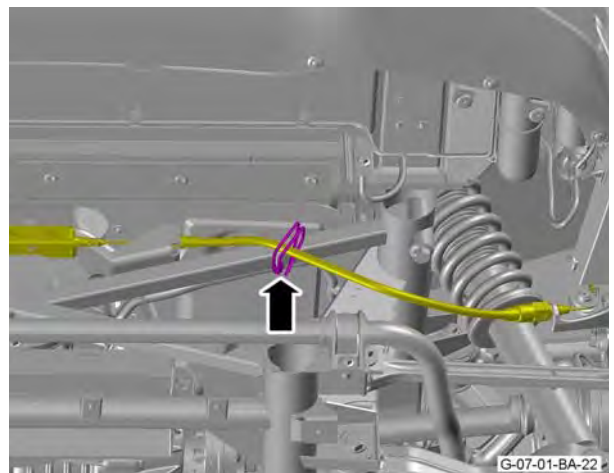
41. Install and tighten the two nuts that attach the handbrake cable to the rear subframe.



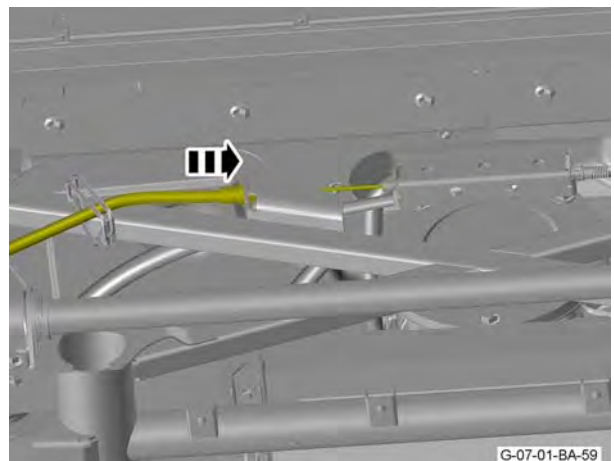
42. Install the left side handbrake cable to the clip that attaches it to the rear subframe.



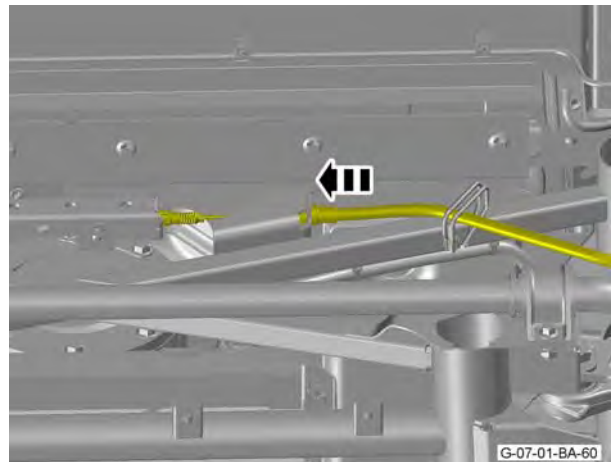
43. Install the right side handbrake cable to the clip that attaches it to the rear subframe.



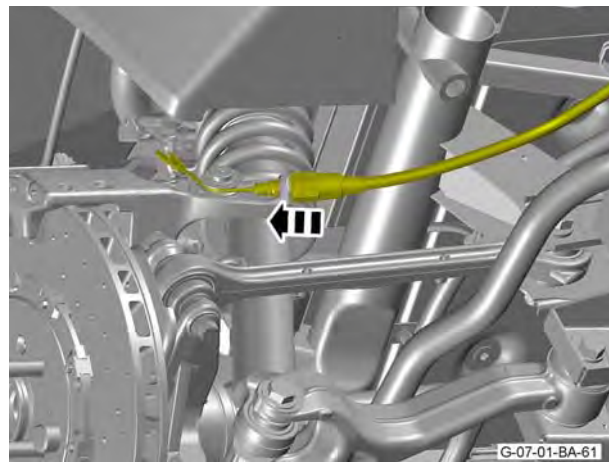
44. Install the left side handbrake cable to the rear subframe.



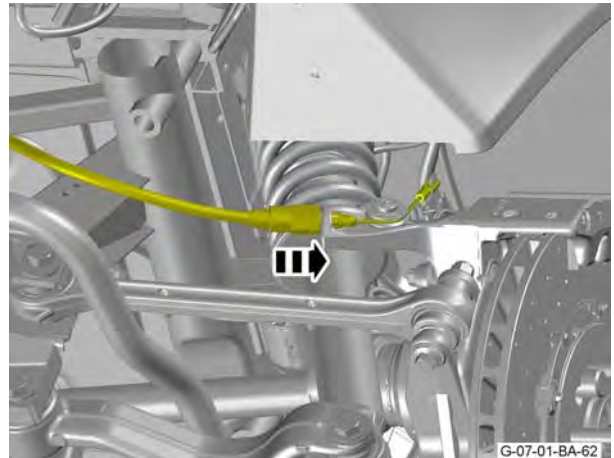
45. Install the right side handbrake cable to the rear subframe.



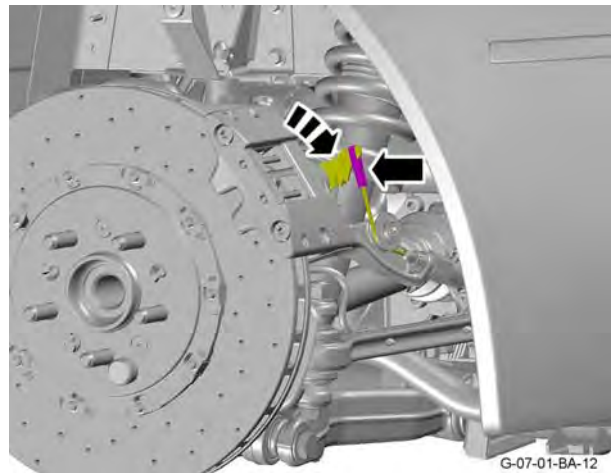
46. Install the left side handbrake cable to the left side handbrake caliper.



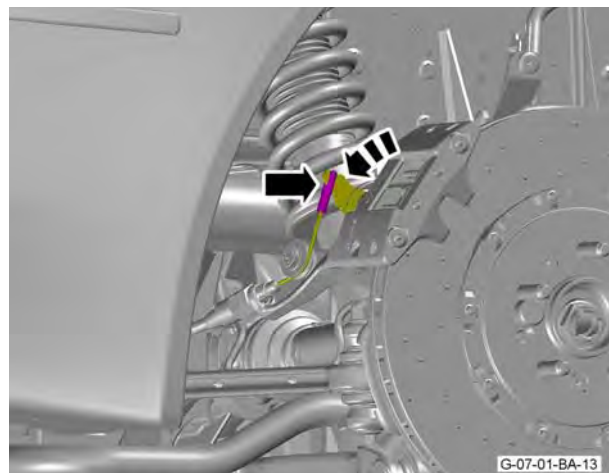
47. Install the right side handbrake cable to the right side handbrake caliper.




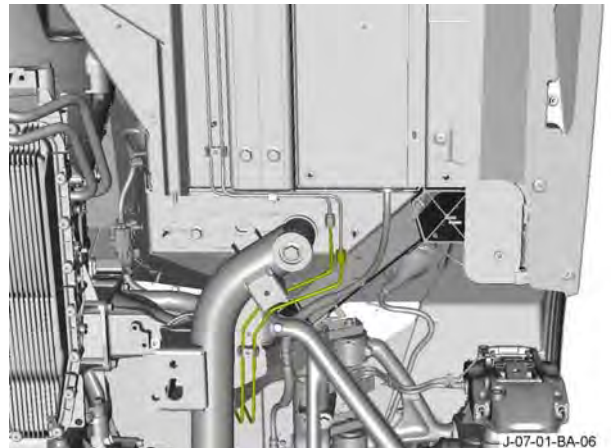
48. Install the handbrake cable eyelet from the left side handbrake caliper.



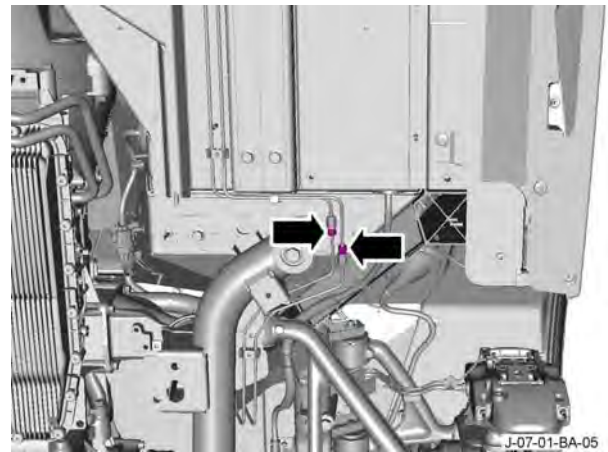
49. Install the handbrake cable eyelet to the right side handbrake caliper.



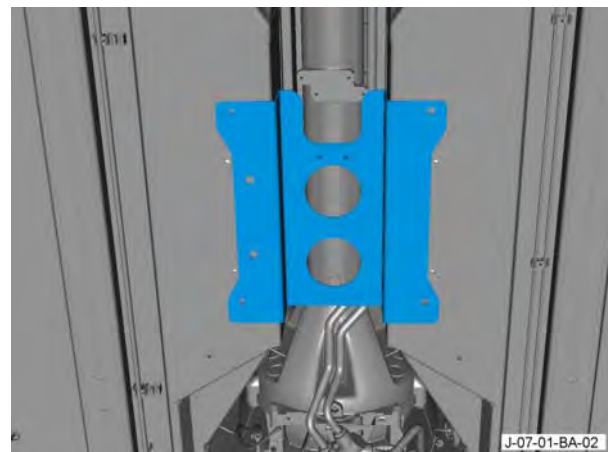
50.  *Note: Remove and discard the caps.*
Connect the two front brake pipes to the two rear brake pipes.



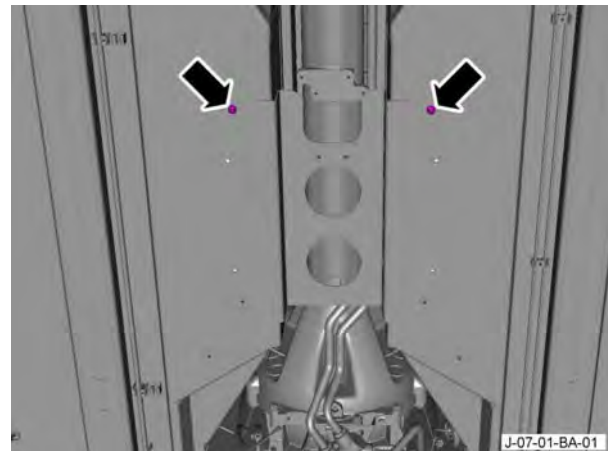
51. Torque the two brake pipe unions that attach the rear brake pipes to the front brake pipes to 14 Nm.



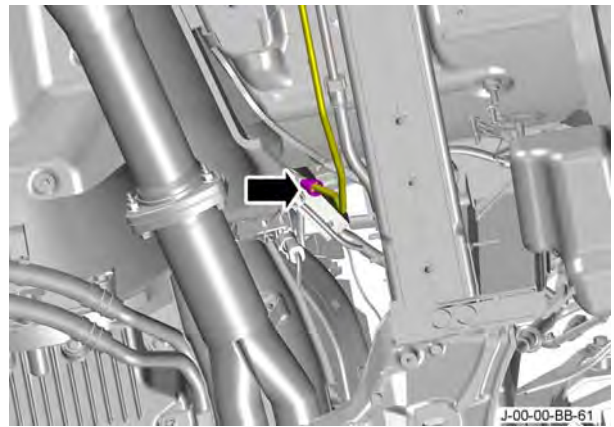
52. Install the centre floor reinforcement.



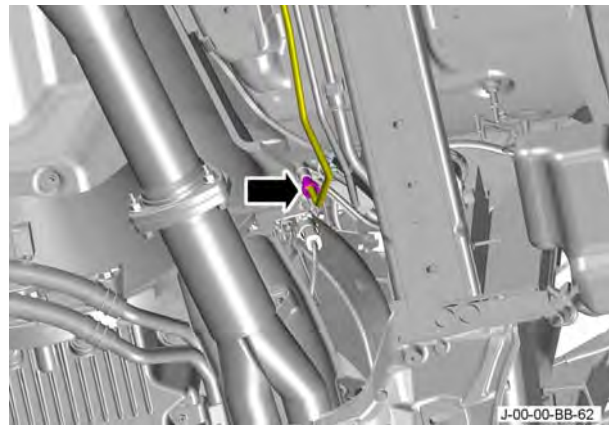
53. Install and torque the two bolts that attach the centre floor reinforcement to the body to 23 Nm.



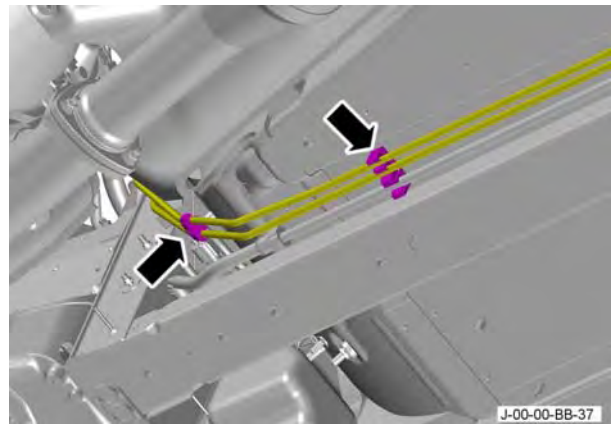
54. **i** *Note: Remove and discard the caps.*
Connect the fuel pipe to the supply pipe.



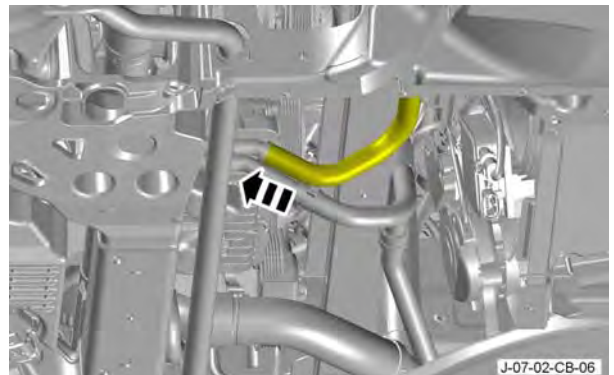
55. **i** *Note: Remove and discard the caps.*
Connect the fuel pipe to the supply pipe.



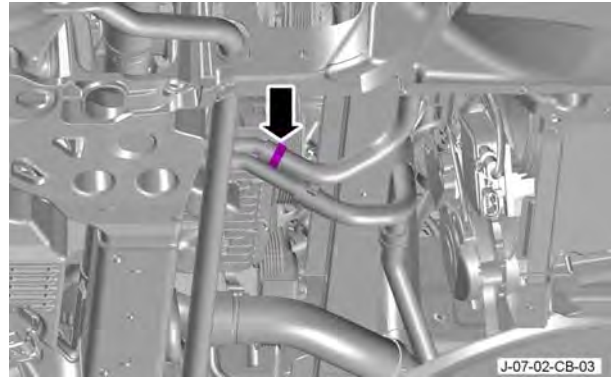
56. Install the fuel pipes to the two clips that attach it to the body.



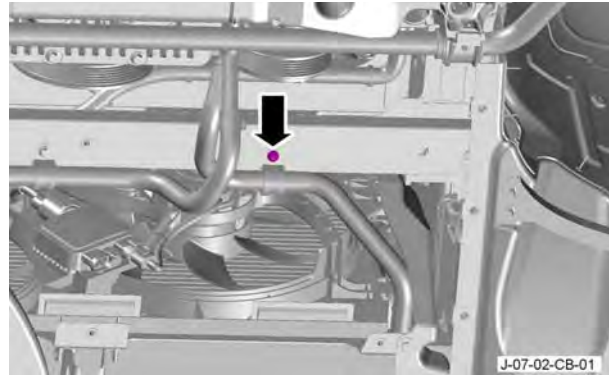
57. **i** *Note: Remove and discard the caps.*
Connect the inlet hose for the transmission oil cooler to the engine-bay outlet pipe for the transmission oil cooler.




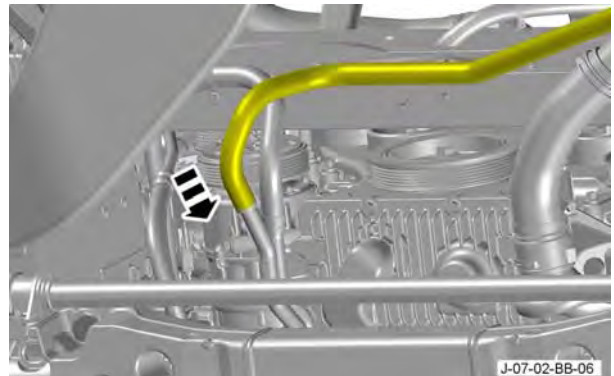
58. Install a new Oetiker clip to attach the inlet hose for the transmission oil cooler to the engine-bay outlet pipe for the transmission oil cooler.



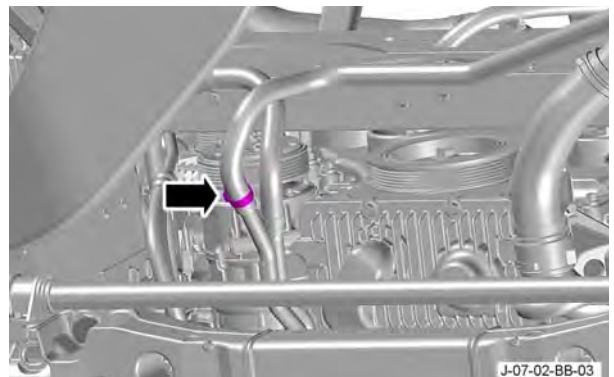
59. Install and torque the bolt that attaches the P-clip that attaches the inlet hose for the transmission oil cooler to the body to 9 Nm.



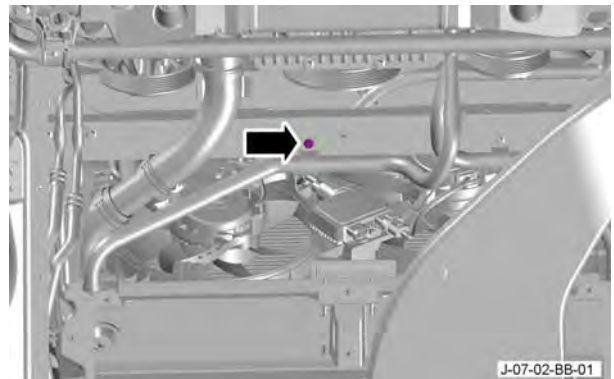
60.  *Note: Remove and discard the caps.*
Connect the outlet hose for the transmission oil cooler to the engine-bay outlet pipe for the transmission oil cooler.



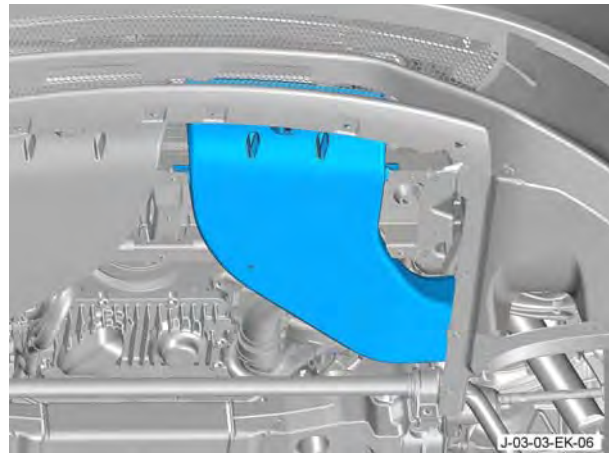
61. Install a new Oetiker clip to attach the outlet hose for the transmission oil cooler to the engine-bay outlet pipe for the transmission oil cooler.



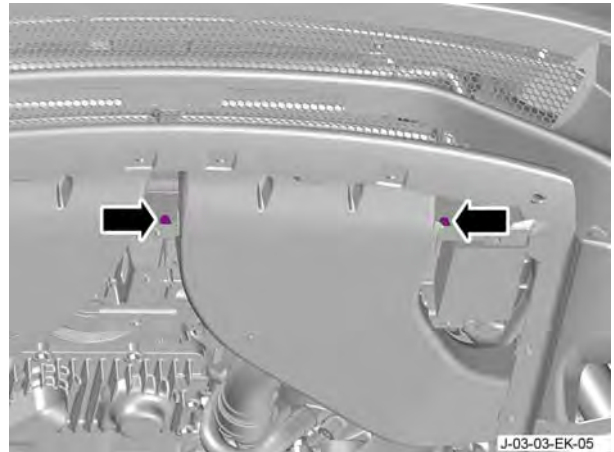
62. Install and torque the bolt that attaches the P-clip that attaches the outlet hose for the transmission oil cooler to the body to 9 Nm.




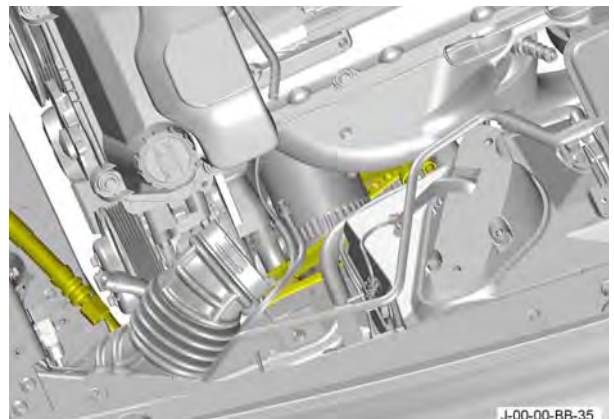
63. Install the left side brake cooling duct.



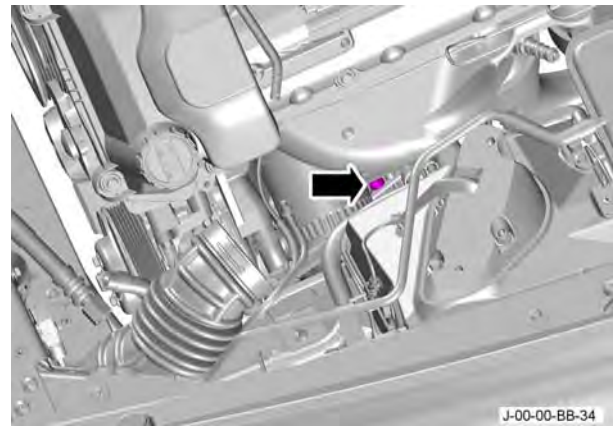
64. Install and torque the two bolts that attach the left side brake cooling duct to the body to 9 Nm.



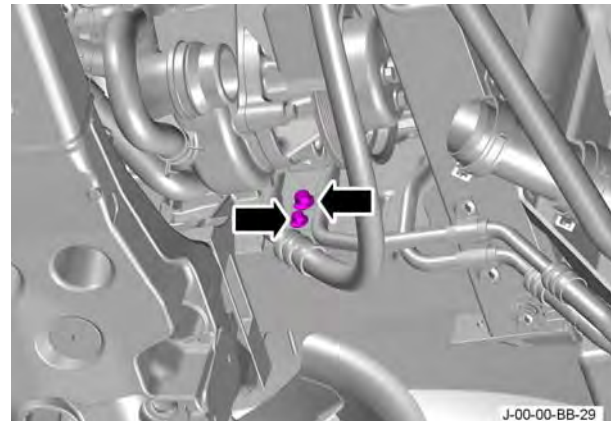
65.  *Note: Remove and discard the caps.*
Move the PAS pipes into the correct position.



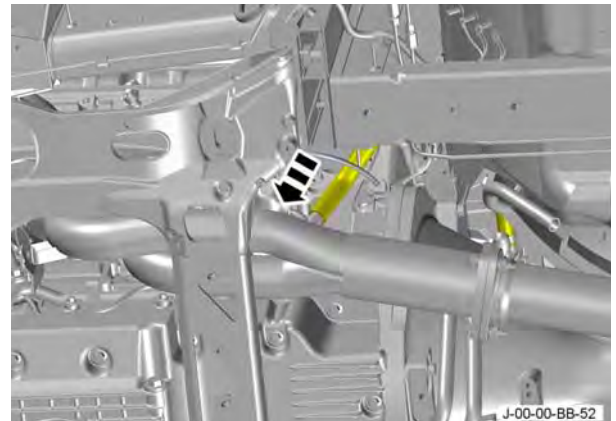
66. Install and torque the Torx screw that attaches the PAS pipes to the PAS rack to 11 Nm.



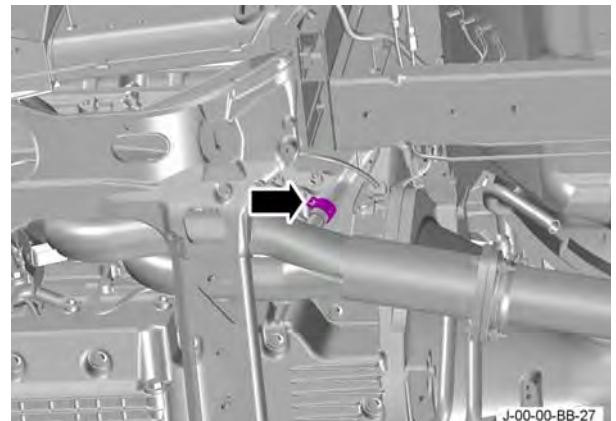
67. Remove the container below the PAS rack.
68. Install and torque the M6 bolt that attaches the PAS pipes to the body to 9 Nm. Install and torque the M8 bolt that attaches the PAS pipes to the body to 23 Nm.



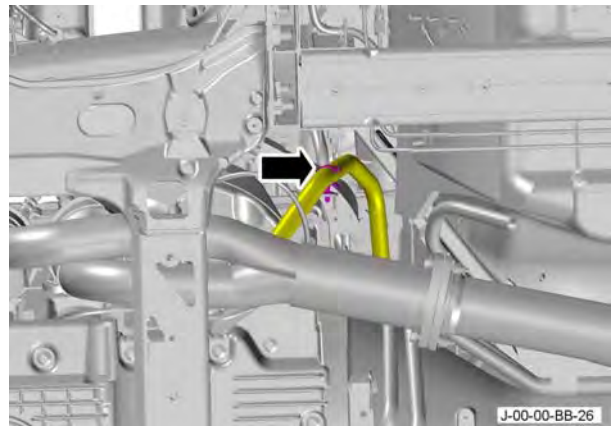
69. Connect the coolant hose to the coolant pipe.



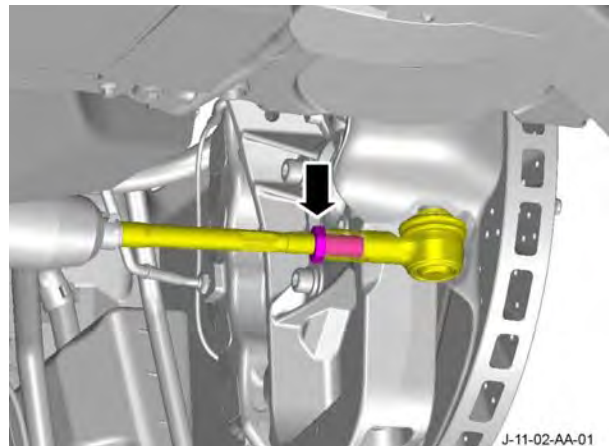
70. Install the clip that attaches the coolant hose to the coolant pipe.



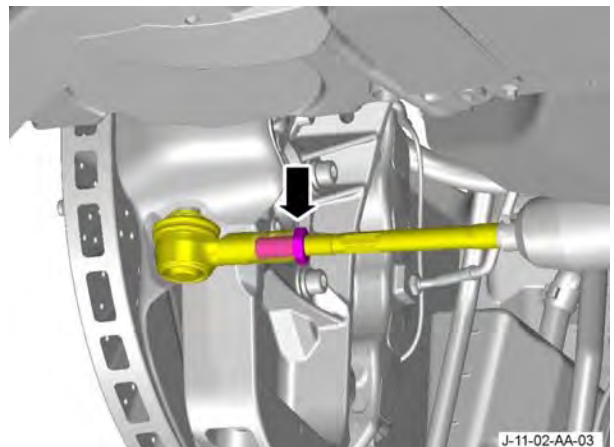
71. Install the coolant hose to the clip that attaches it to the engine.



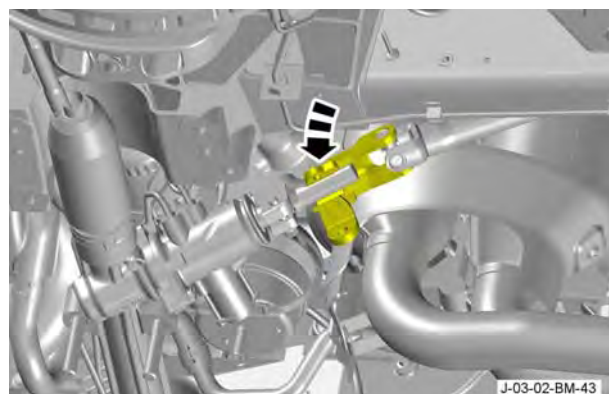
72. **i** Note: Make sure that the track rod is installed in the recorded position.
Install the track rod to the track rod end.



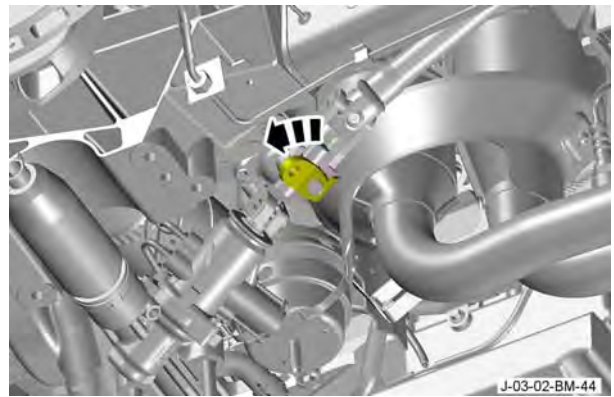
73. **i** Note: Make sure that the track rod is installed in the recorded position.
Install the track rod to the track rod end.



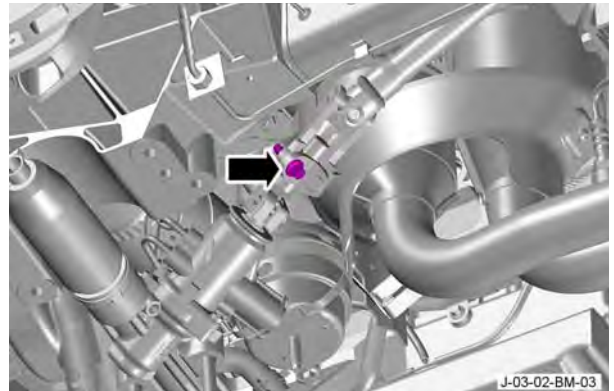
74. Rotate the vee yoke assembly into position.



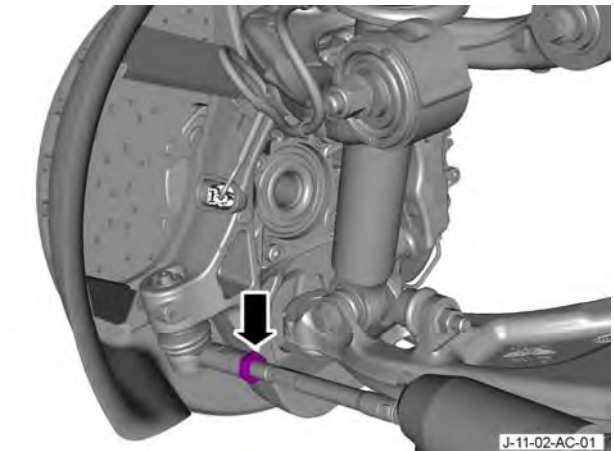
75. Rotate the butterfly clamp plate into position to attach the vee yoke assembly to the PAS rack.



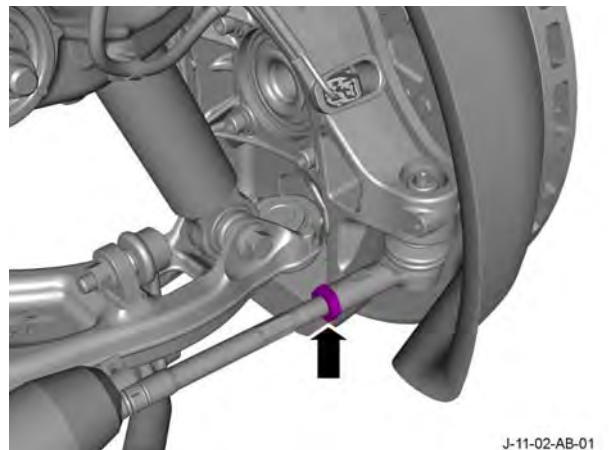
76. Install and torque the pinch bolt that attaches the PAS rack to the steering column to 17 Nm.



77. Torque the lock nut for the track rod end to 70 Nm.

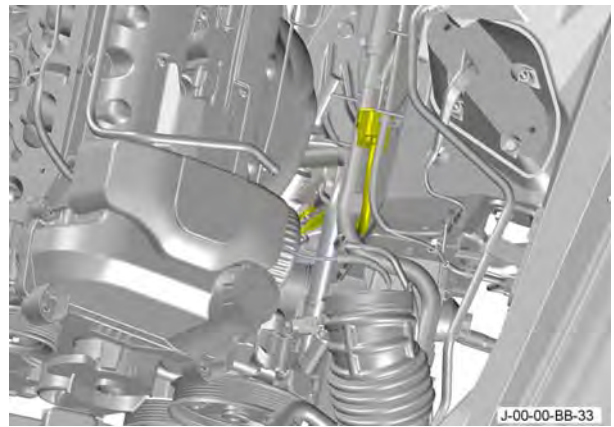


78. Torque the lock nut for the track rod end to 70 Nm.

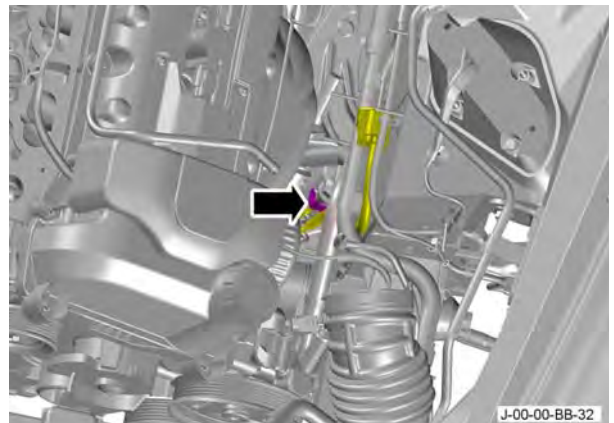


79. Lower the vehicle.

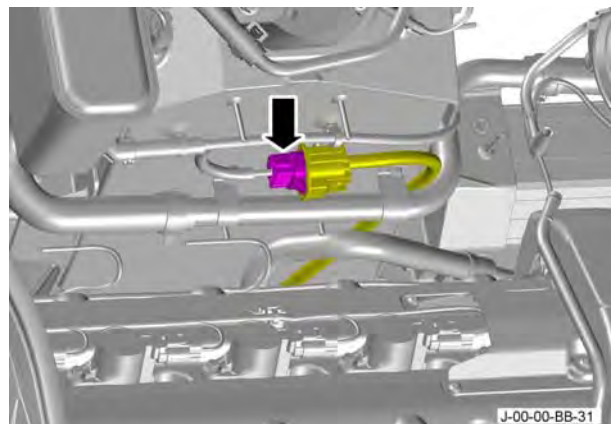
80. Move the link wiring harness for the PAS system into the correct position.



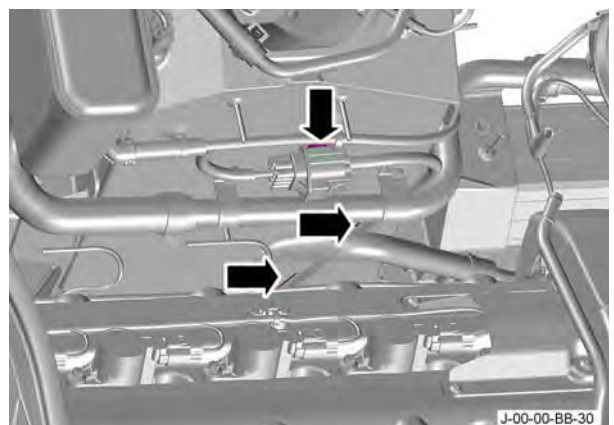
81. Connect the electrical connector to the pressure sensor for the PAS.



82. Connect the electrical connector to the link wiring harness for the PAS system.



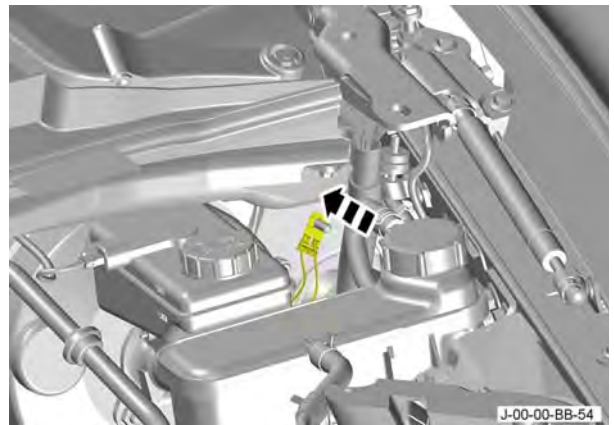
83. Install the link wiring harness for the PAS system to the three clips that attach it to the body.



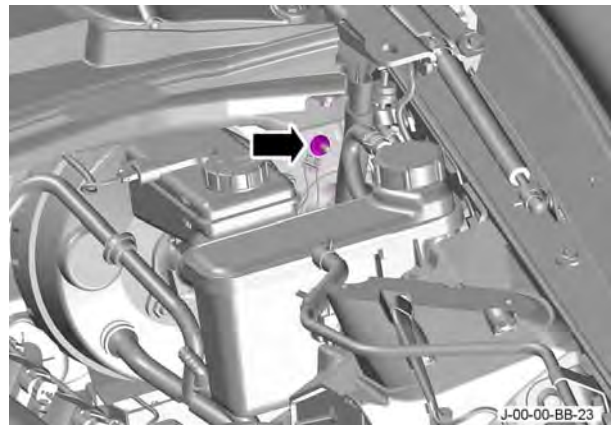
84. Move the wiring harness for the engine into the correct position.



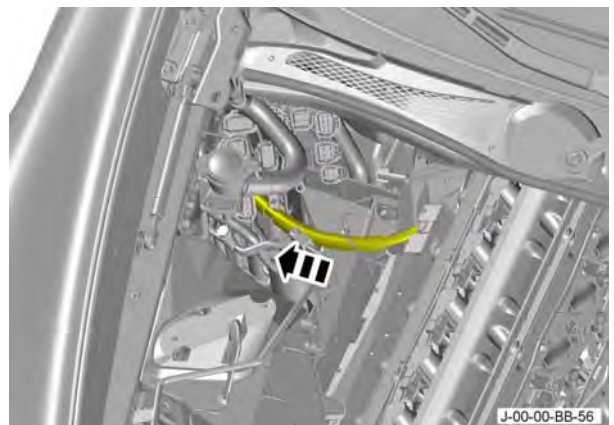
85. Install the wiring harness for the engine to the stud that attaches it to the body.



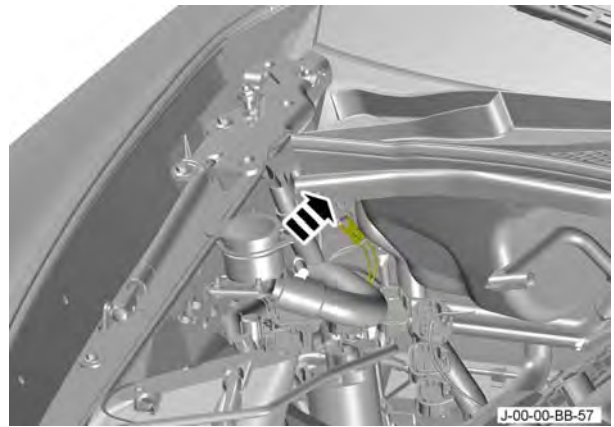
86. Install and torque the nut that attaches the wiring harness for the engine to the body to 5 Nm.



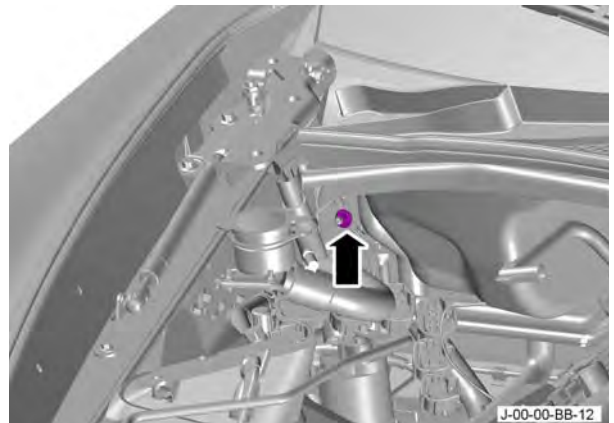
87. Move the wiring harness for the engine into the correct position.



88. Install the wiring harness for the engine to the stud that attaches it to the body.



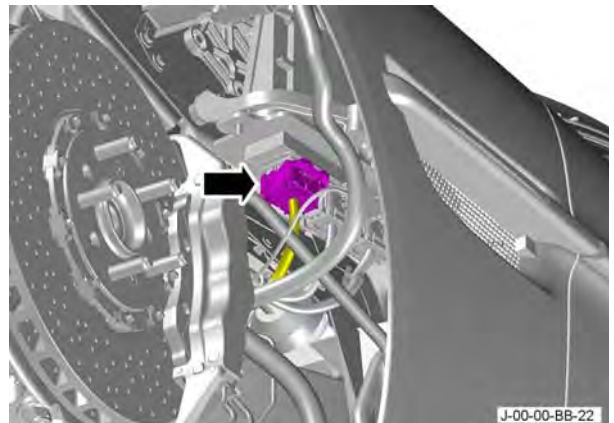
89. Install and torque the nut that attaches the wiring harness for the engine to the body 5 Nm.



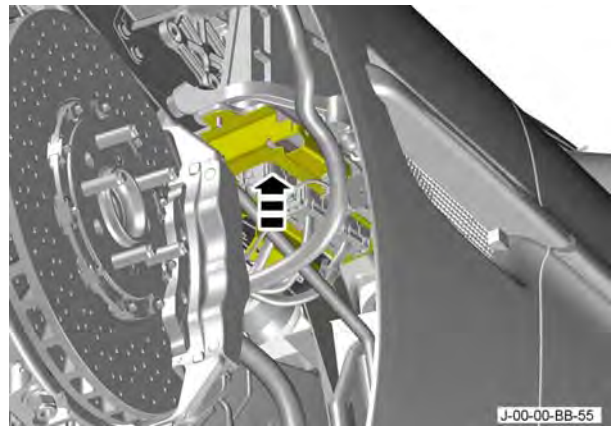
90. **i** *Note: Lift the vehicle to get access to the alternator through the wheel arch.*

Lift the vehicle.

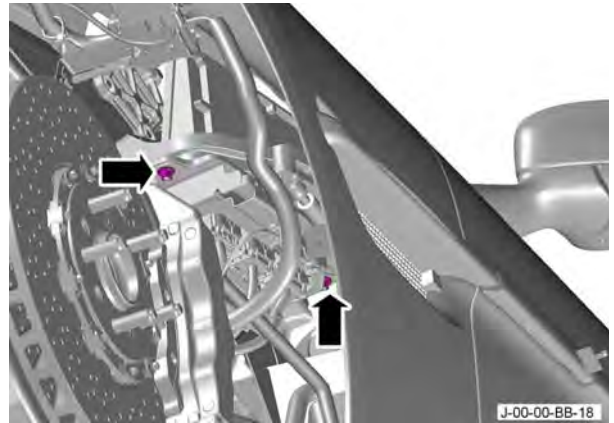
91. Connect the electrical connector to the left side PCM.



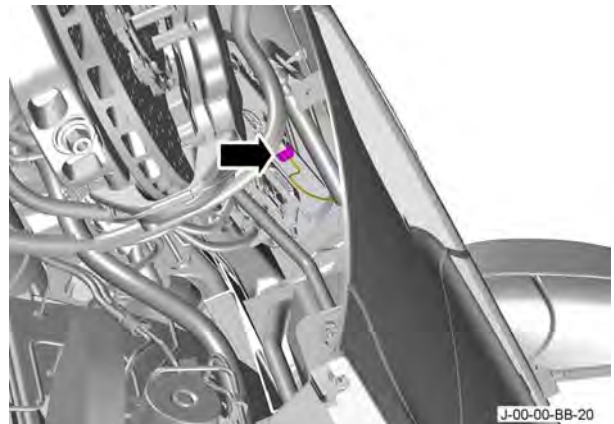
92. Move the left side PCM bracket into the correct position.



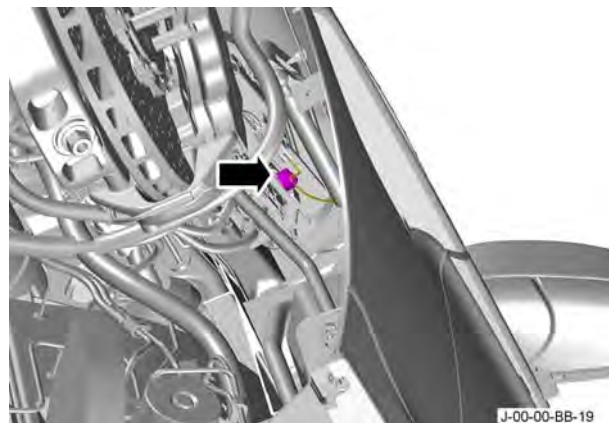
93. Install and torque the two nuts that attach the left side PCM to the body to 9 Nm.



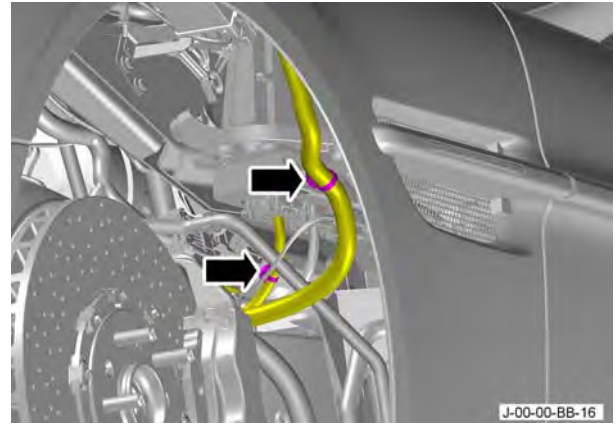
94. Connect the electrical connector to the forward wiring harness.



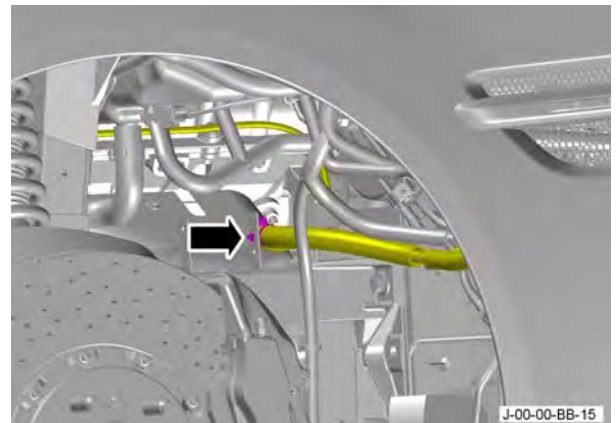
95. Install the wiring harness from the clip that attaches it to the body.



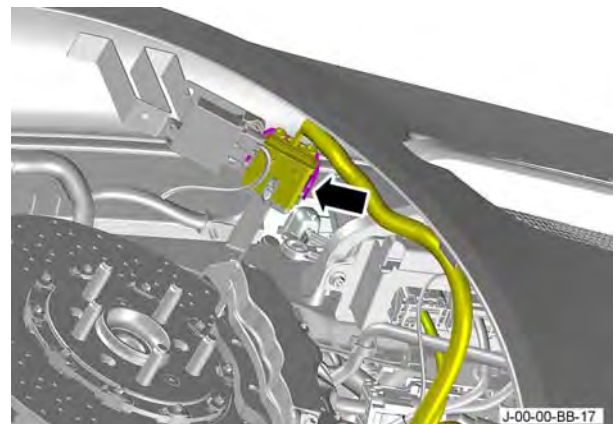
96. Install the wiring harness for the engine to the two clips that attach it to the body.



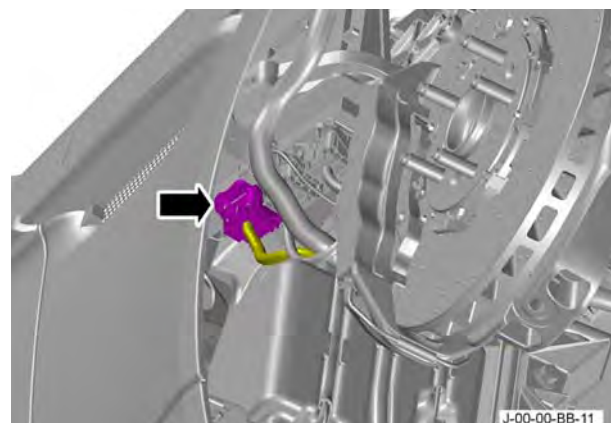
97. Install the wiring harness for the engine to the clip that attaches it to the body.



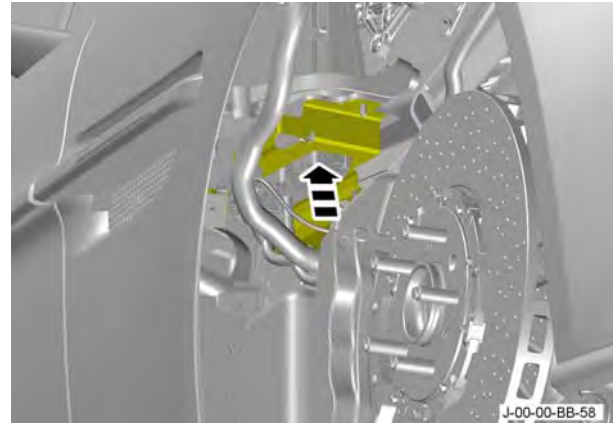
98. Connect the electrical connector to the forward wiring harness.



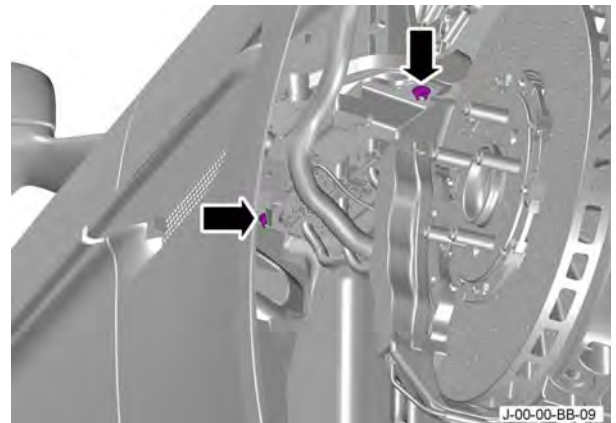
99. Connect the electrical connector to the right side PCM.



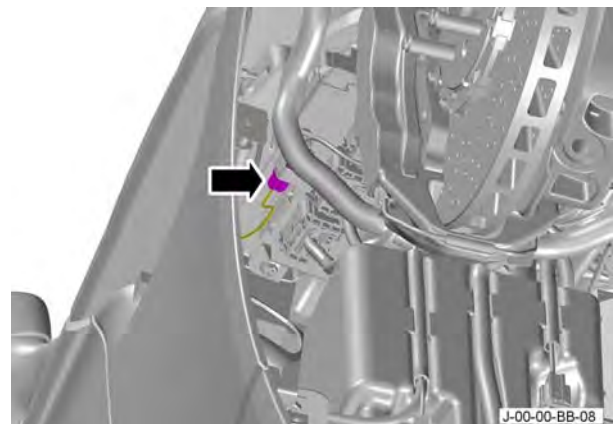
100. Move the right side PCM bracket into the correct position.



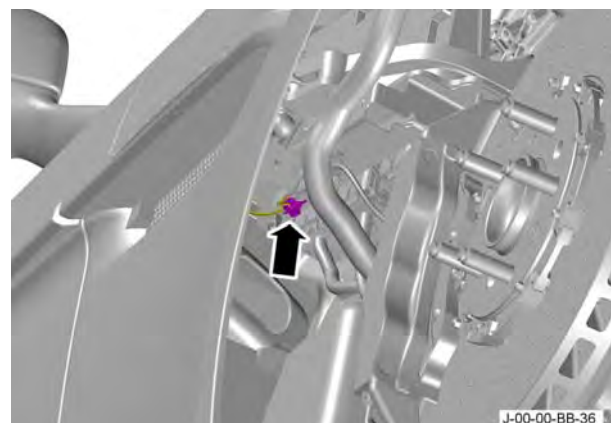
101. Install and torque the two nuts that attach the right side PCM to the body to 9 Nm.



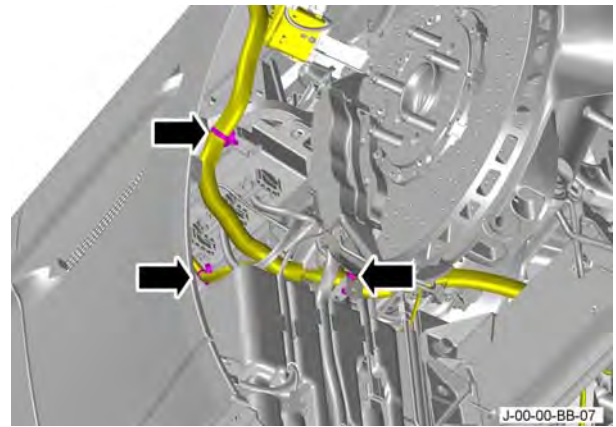
102. Connect the electrical connector to the forward wiring harness.



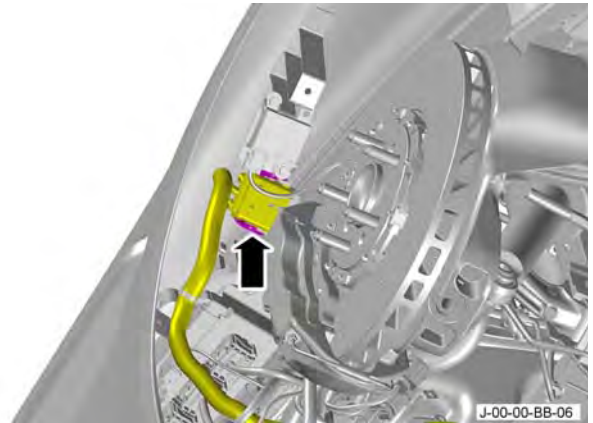
103. Install the wiring harness to the clip that attaches it to the body.



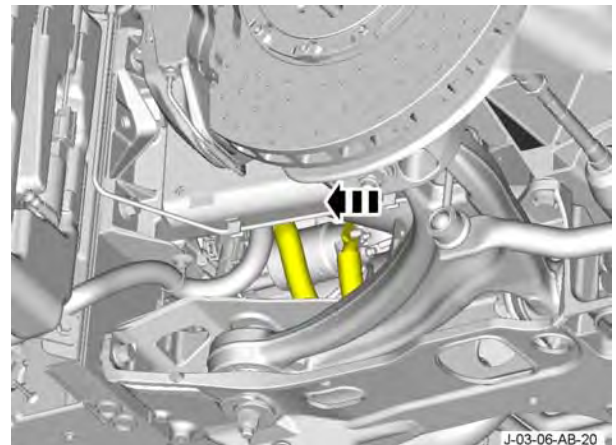
104. Install the wiring harness for the engine to the three clips that attach it to the body.



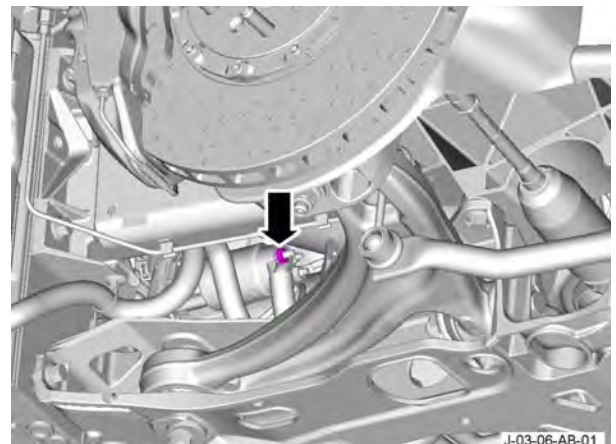
105. Connect the electrical connector to the forward harness.




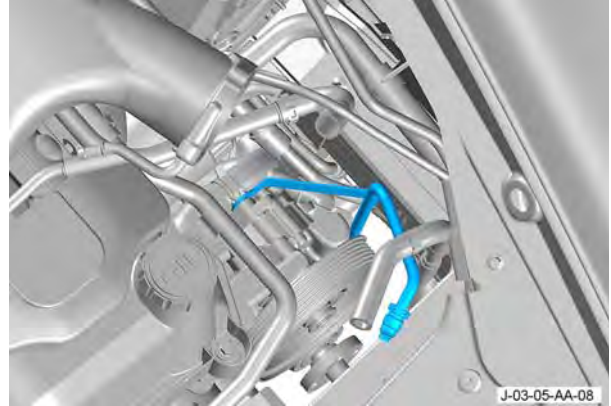
106. Install the battery positive cable to the starter motor.



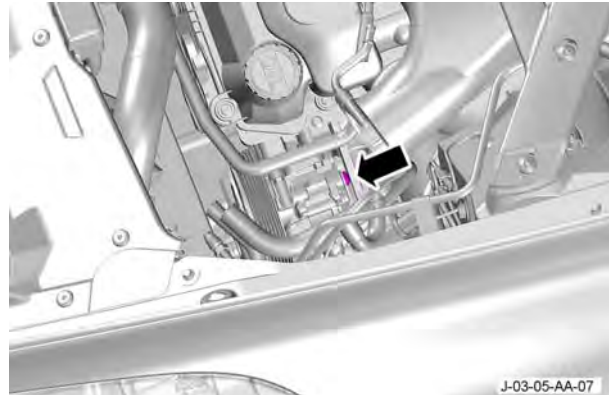
107. Install and torque the nut that attaches the battery positive cable to the starter motor to 12 Nm.




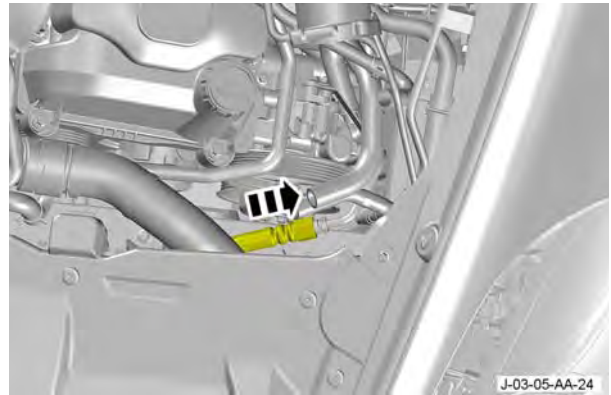
108. Lower the vehicle.
109.  *Note: Remove and discard the caps.*
Put the PAS pipe into position.



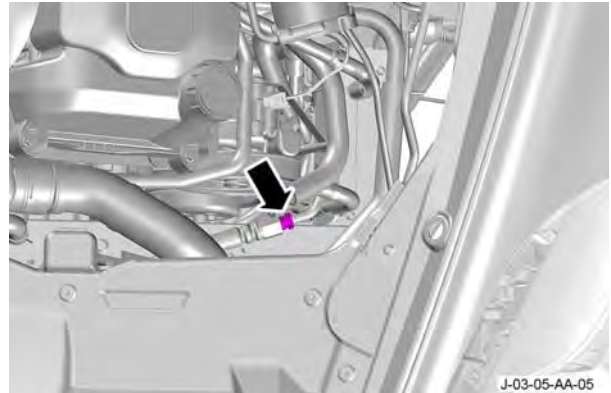
110. Install and torque the bolt that attaches the PAS pipe to the PAS pump to 11 Nm.



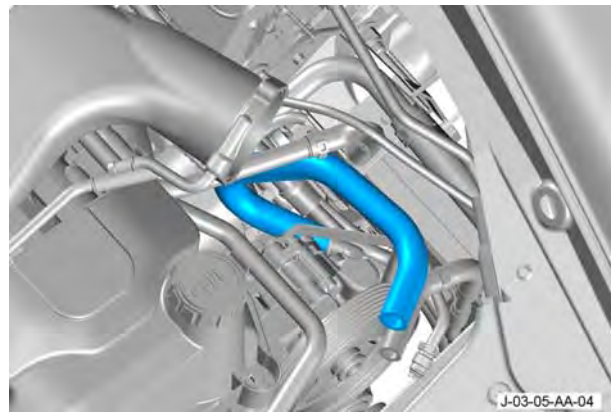
111.  *Note: Remove and discard the caps.*
Move the PAS hose into the correct position.



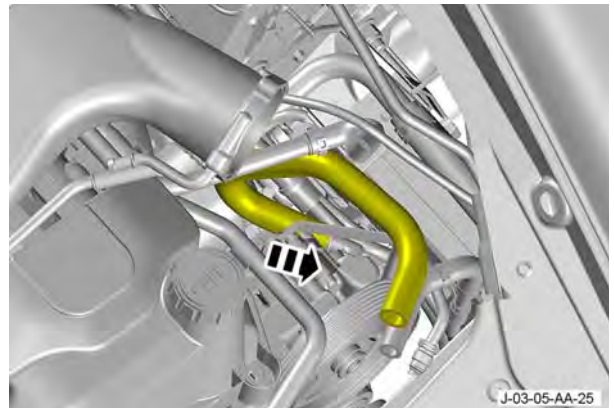
112. Connect and torque the PAS pipe union to the PAS hose to 25 Nm.



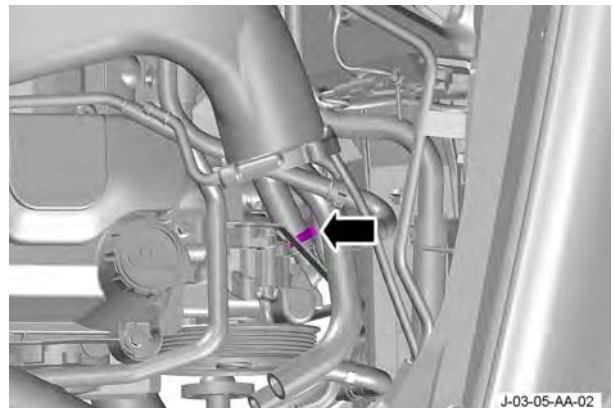
113. Put the PAS hose into position.



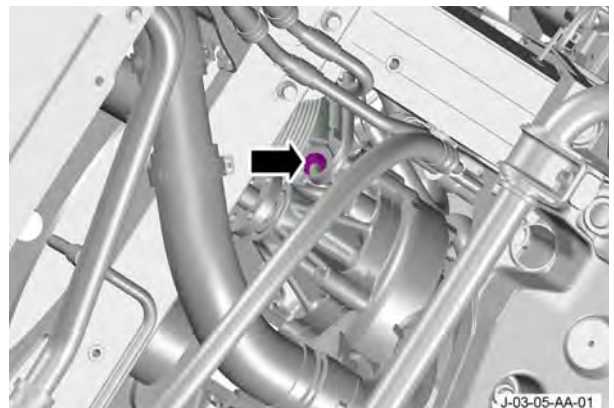
114. **i** *Note: Remove and discard the caps.*
Connect the PAS hose to the PAS pump.



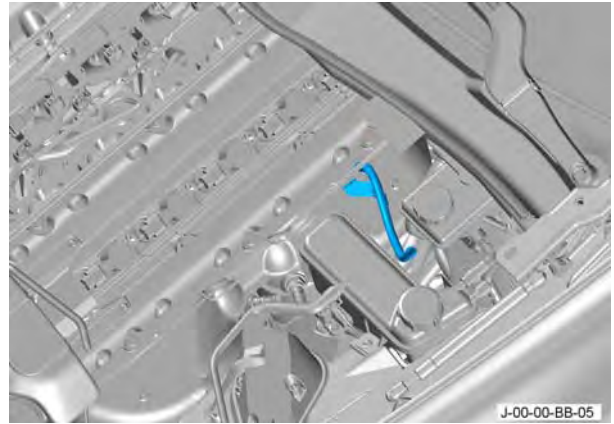
115. Install the clip that attaches the PAS hose to the PAS pump.



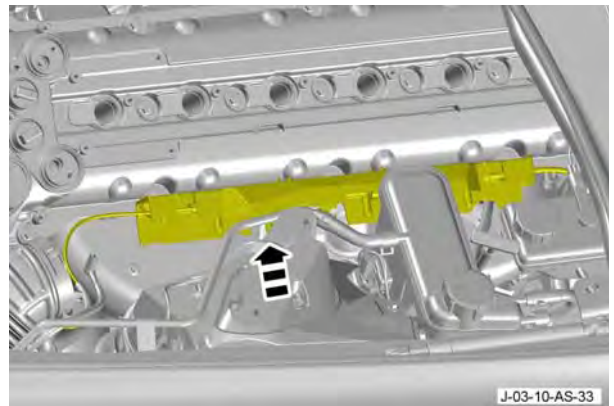
116. Connect and torque the PAS pipe union to the PAS pump to 25 Nm.



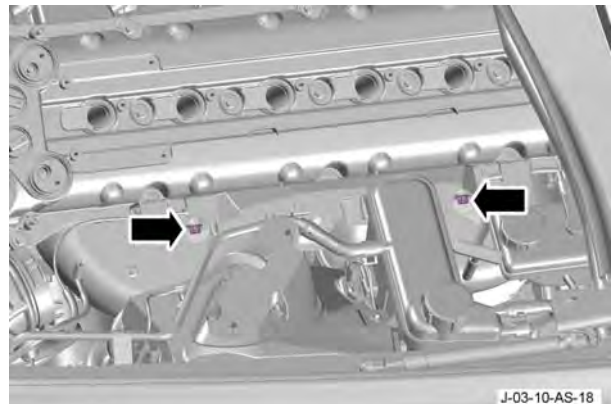
117. Install the dipstick tube.



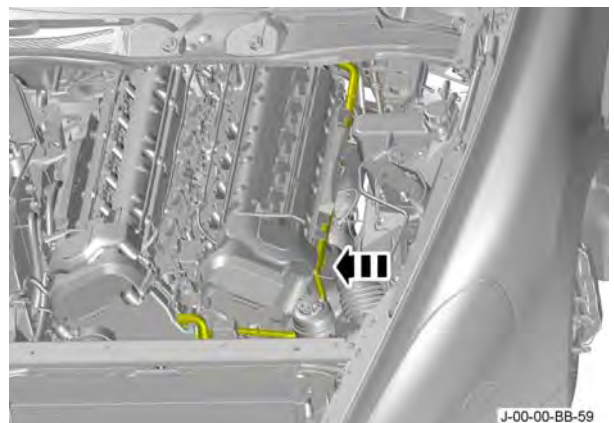
118. Move the protective cover into the correct position.



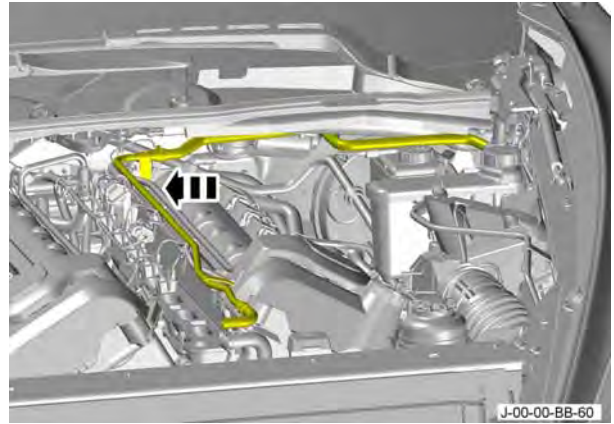
119. Install and torque the two bolts that attach the protective cover to the engine to 23 Nm.



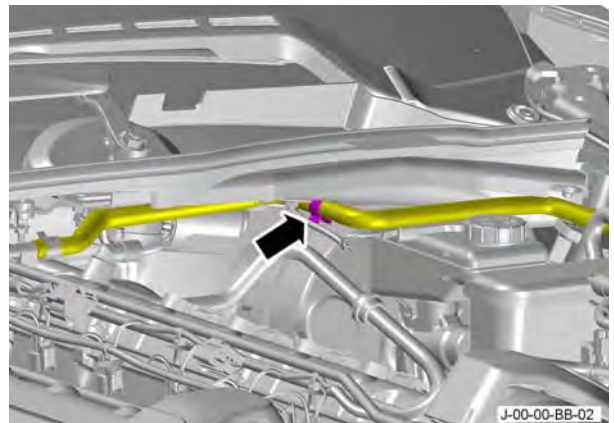
120. Move the coolant pipe into the correct position.



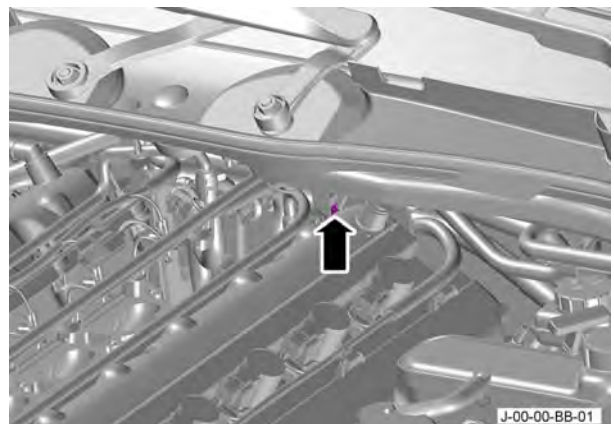
121. Move the coolant pipe into the correct position.





122. Install the coolant hose to the clip that attaches it to the body.

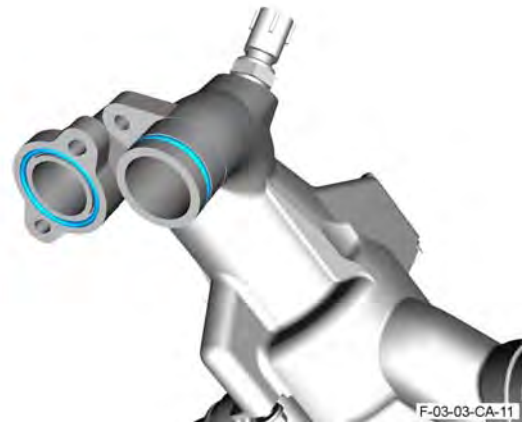


123. Install and torque the nut that attaches the coolant pipe to the engine to 6 Nm.

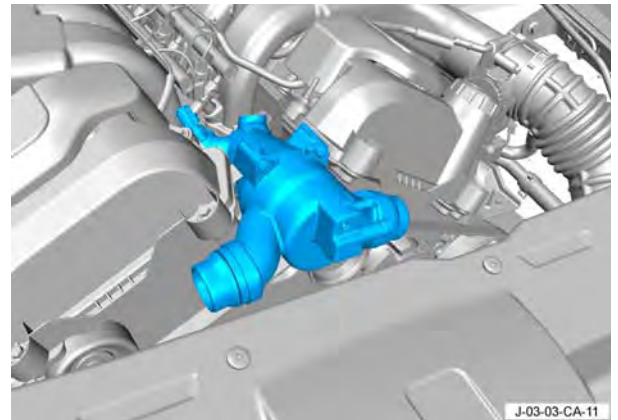


124. Clean the mating faces between the thermostat-housing and the engine assembly.

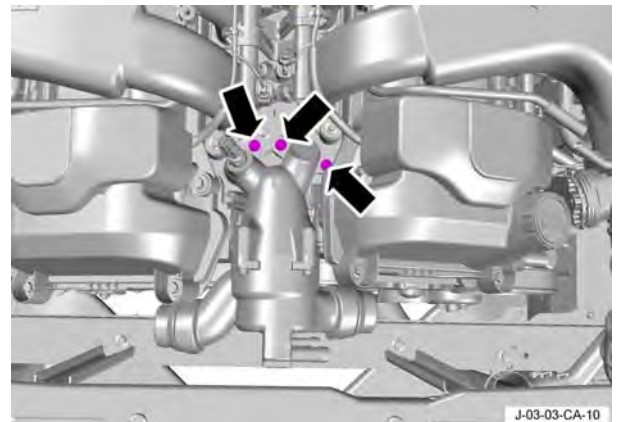
125.  *Note: Lubricate the seals with clean coolant.*
 *Note: Make sure that the seals are correctly installed.*
Install two new thermostat-housing seals.



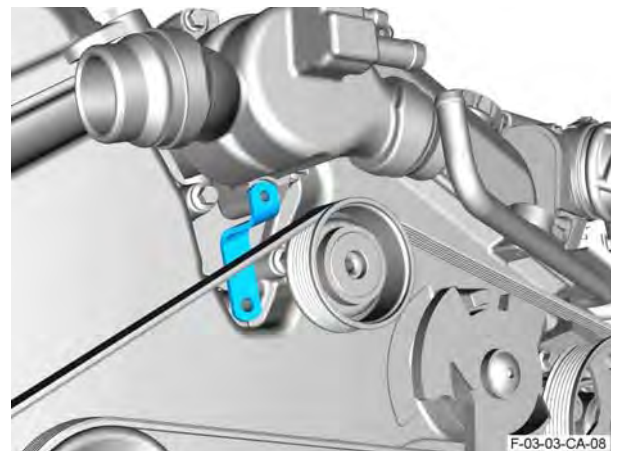
126. Install the thermostat-housing on the engine.



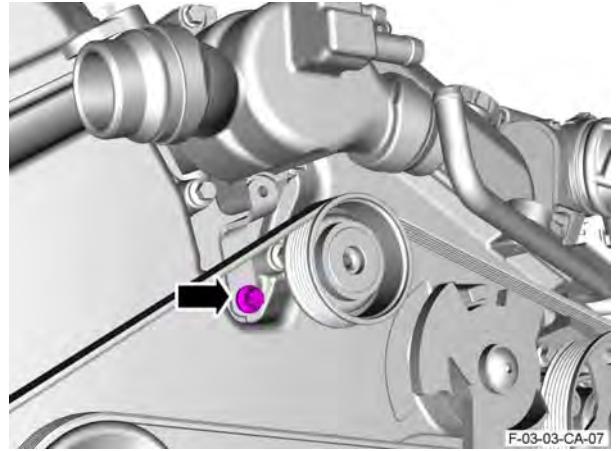
127. Install and torque the three bolts that attach the thermostat-housing to the engine to 10 Nm.



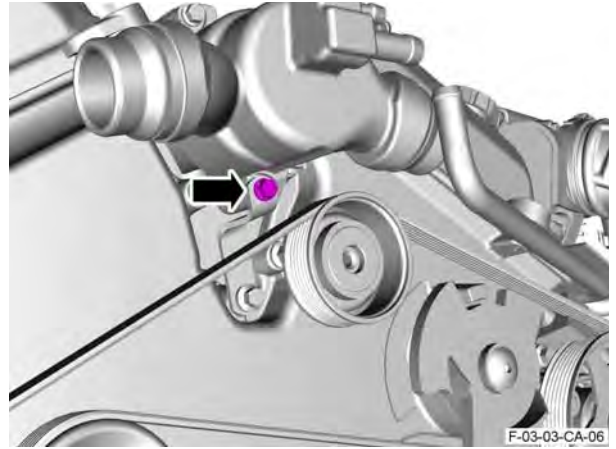
128. Install the support bracket for the thermostat-housing.



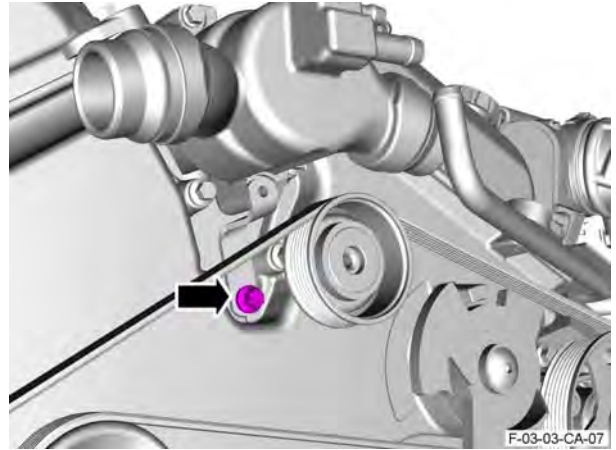
129. Install the bolt that attaches the support bracket for the thermostat-housing to the engine.



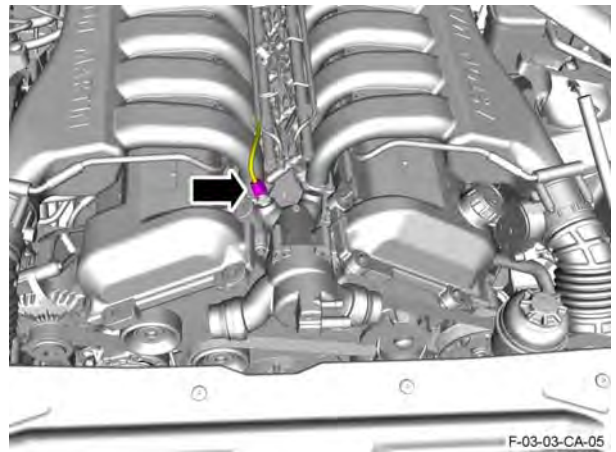
130. Install and torque the bottom bolt that attaches the thermostat-housing to the engine to 10 Nm.



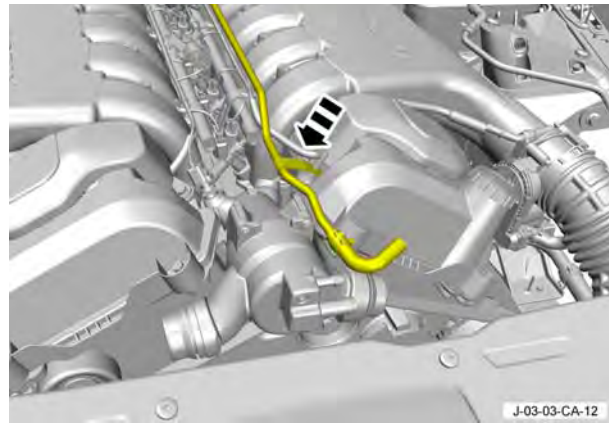
131. Torque the bolt that attaches the support bracket for the thermostat-housing to the engine to 25 Nm.



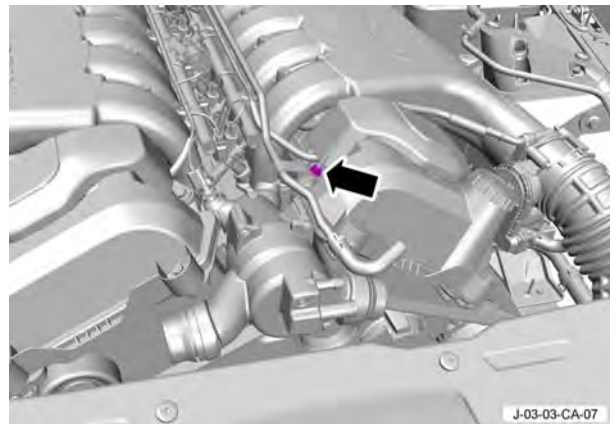
132. Connect the electrical connector to the ECT sensor.



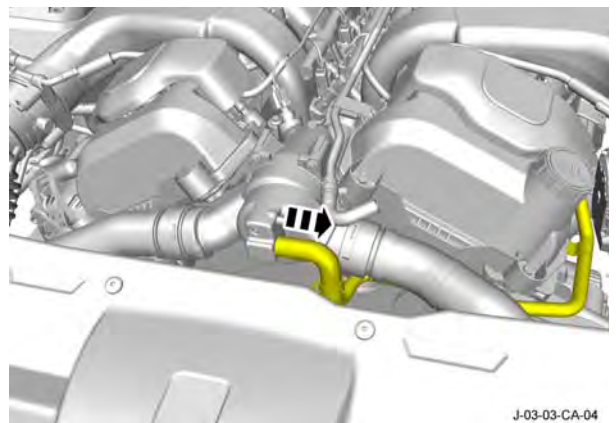
133. Install the coolant pipe to the engine.



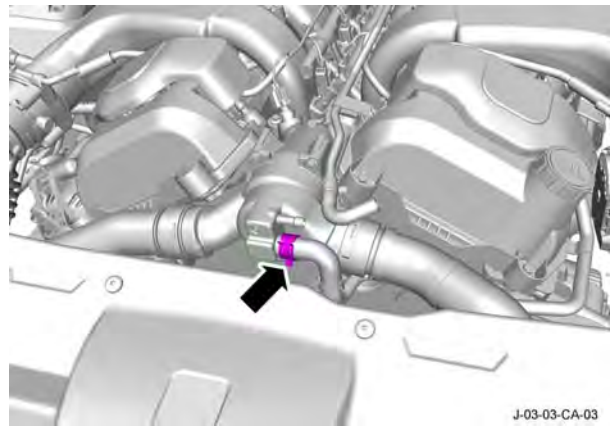
134. Install and torque the nut that attaches the coolant pipe to the engine assembly to 6 Nm.



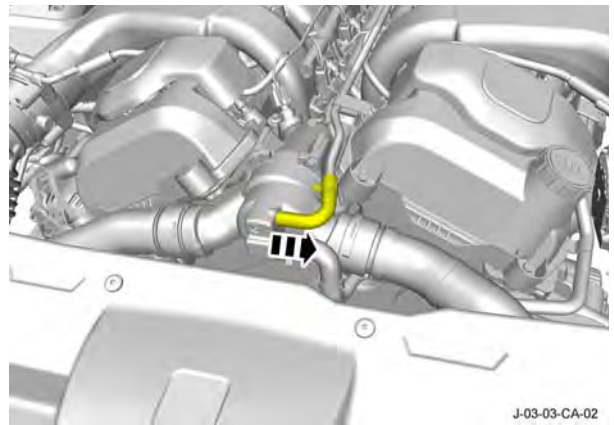
135. Connect the coolant hose to the thermostat-housing.



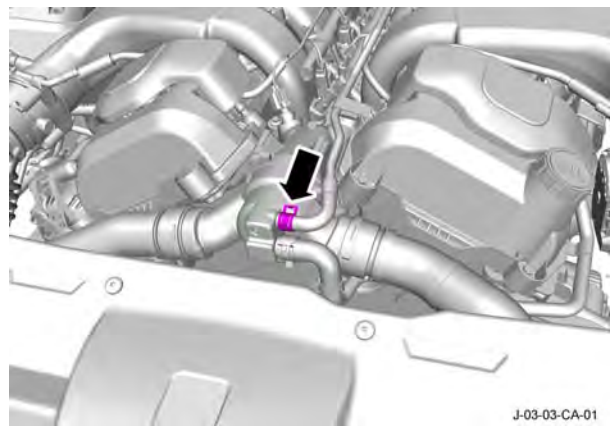
136. Install the clip that attaches the coolant hose to the thermostat-housing.



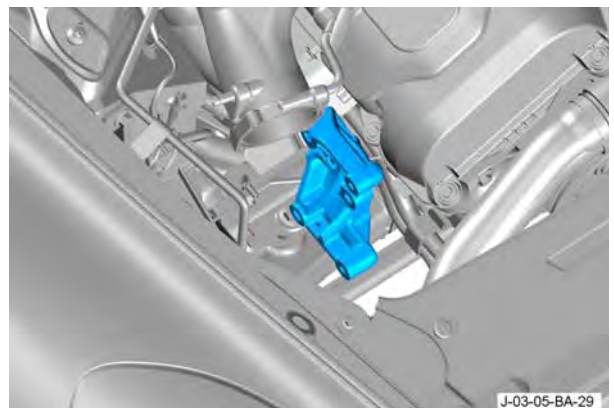
137. Connect the coolant hose to the thermostat-housing.




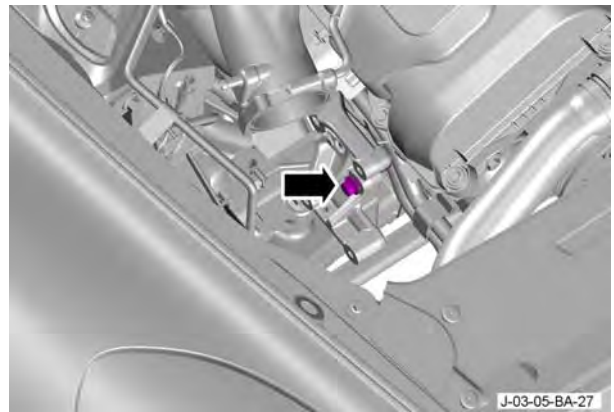
138. Install the clip that attaches the coolant hose to the thermostat-housing.



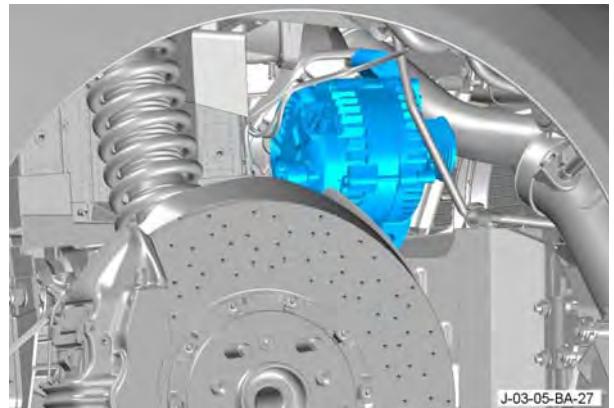
139. Put the alternator bracket into position.



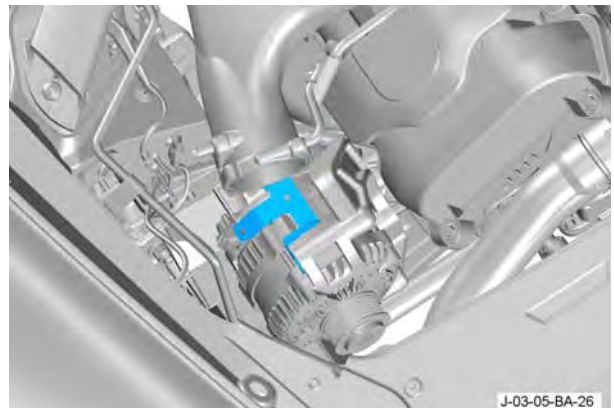
140.  *Note: Do not engage the thread of the bolt with the engine.*
Loosely install the bolt for the alternator bracket to the alternator bracket.



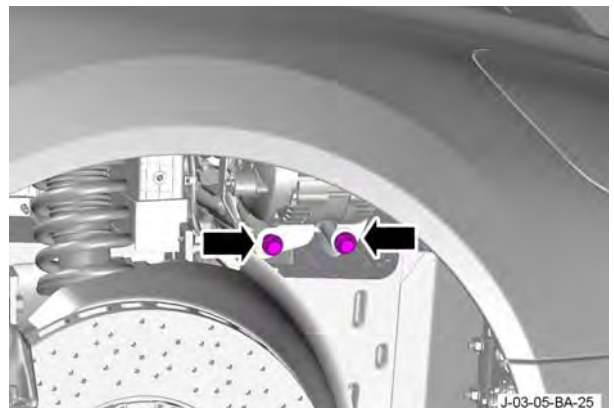
141. Put the alternator into position.



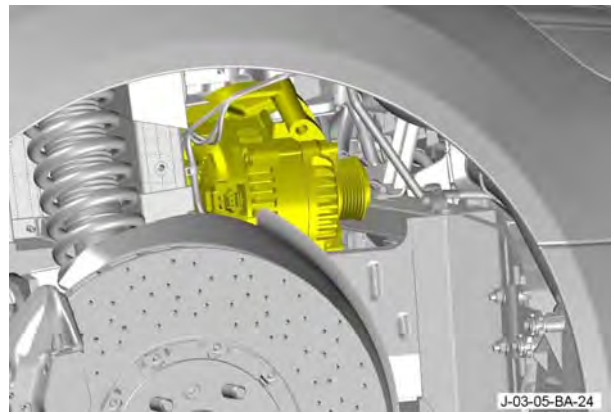
142. Put the alternator cover into position.



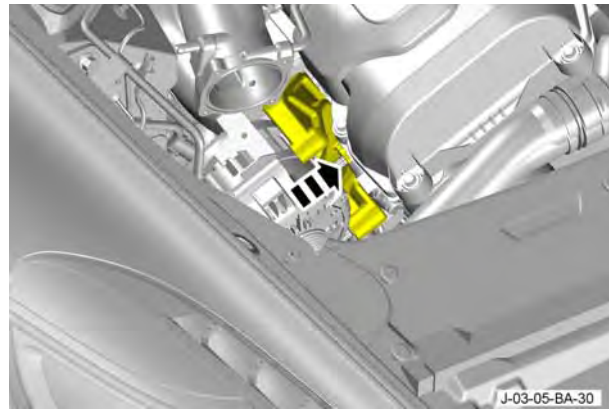
143. Loosely install the two bottom bolts for the alternator.



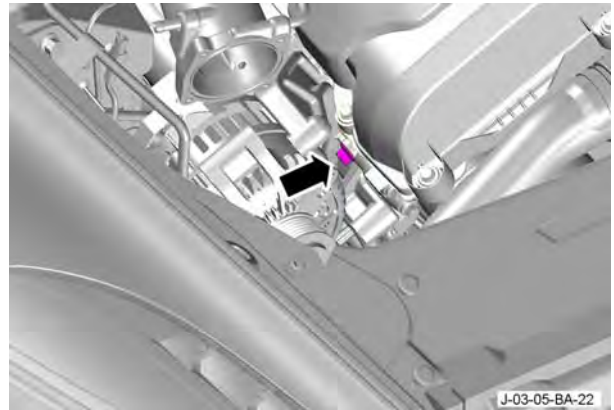
144. Move the alternator and bracket assembly into position.



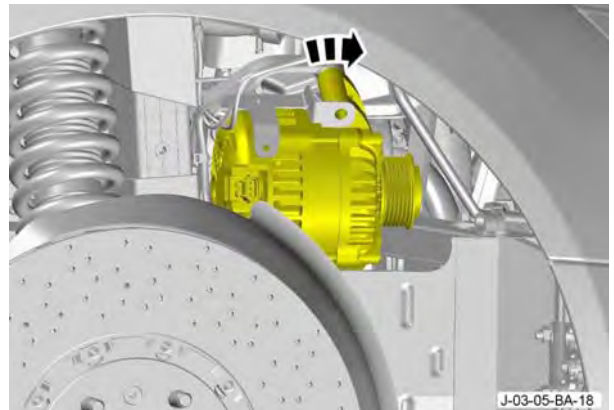
145. Move the alternator bracket into the correct position.



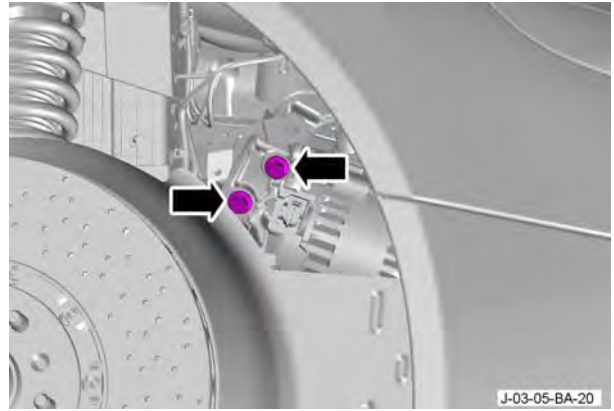
146. Torque the bolt that attaches the alternator bracket to the engine to 48 Nm.



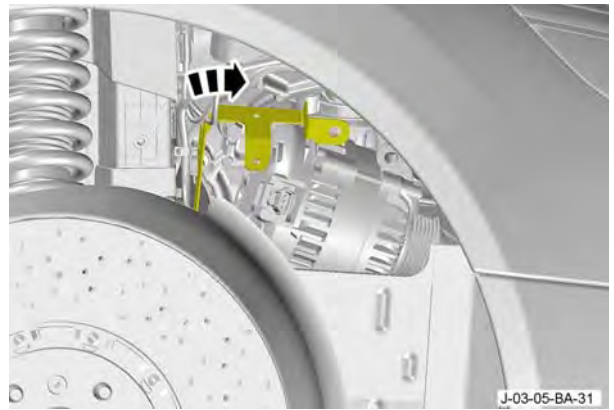
147. Move the alternator to get access to the two bolts that attach the alternator bracket.



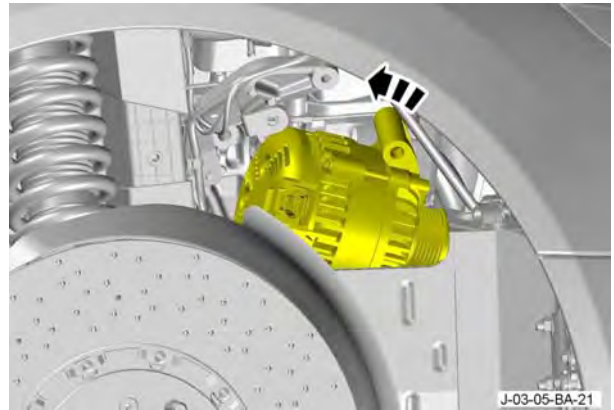
148. Install and torque the two bolts that attach the alternator bracket to the engine to 48 Nm.



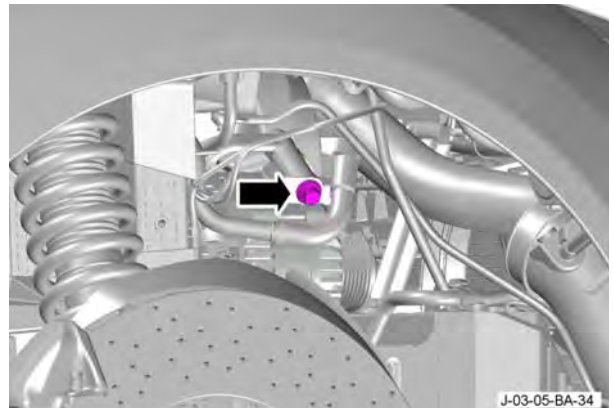
149. Move the alternator cover into the correct position.



150. Move the alternator into the correct position.

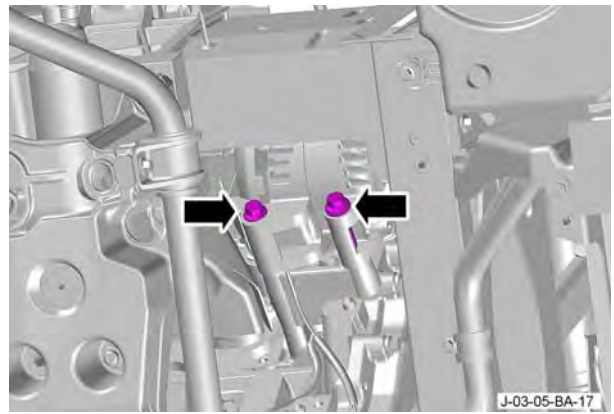


151. Install and torque the bolt that attaches the alternator to the alternator bracket to 48 Nm.

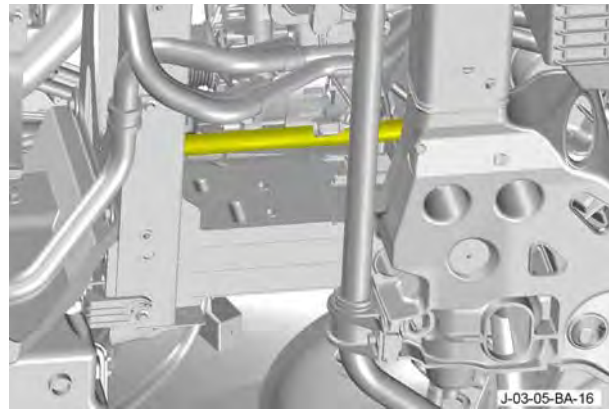


152. Lift the vehicle.

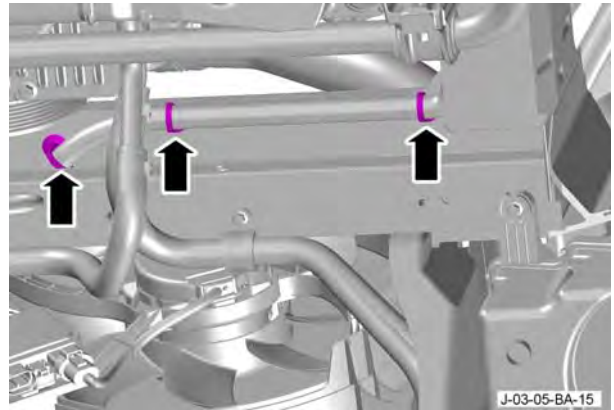
153. Torque the two bolts that attach the alternator to the alternator bracket to 48 Nm.



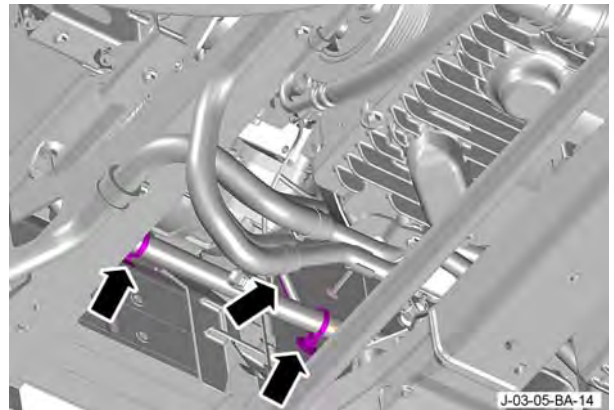
154. Move the battery cable into the correct position.



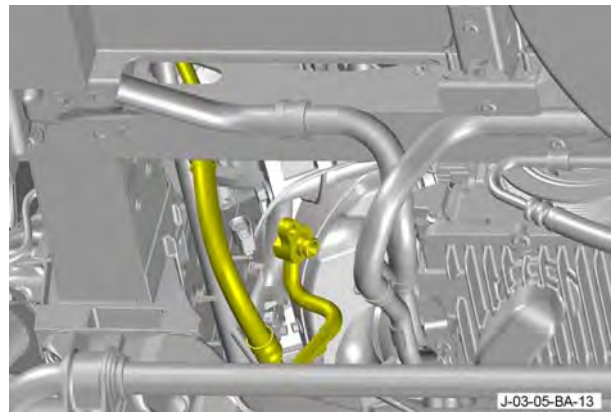
155. Install the battery cable to the three clips that attach it to the body.



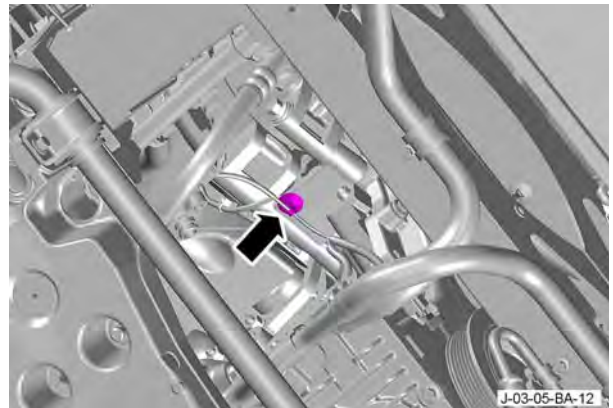
156. Install the battery cable to the three clips that attach it to the body.



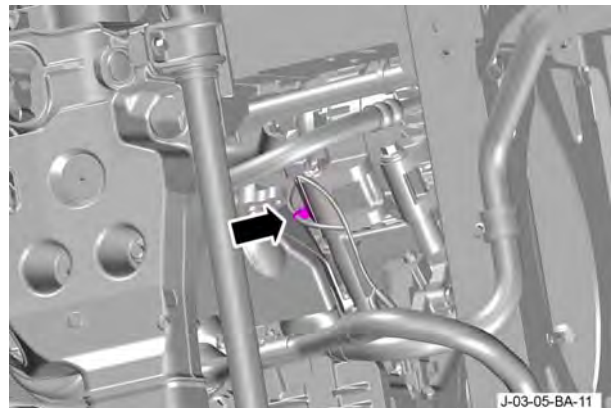
157. Move the A/C pipe into the correct position.




158. Install the engine wiring harness to the clip that attaches it to the alternator bracket.



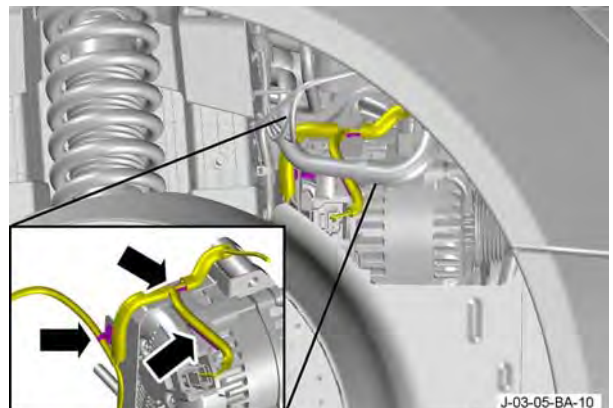
159. Install the engine wiring harness to the clip that attaches it to the alternator cover.



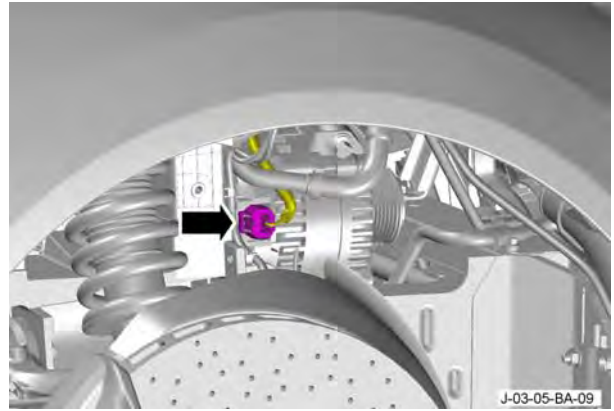
160.  *Note: Lower the vehicle to get access to the alternator through the wheel arch.*

Lower the vehicle.

161. Install the engine wiring harness to the three clips that attach it to the alternator cover.

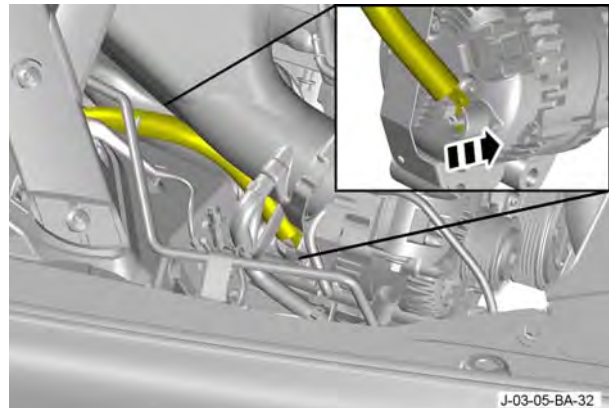


162. Connect the electrical connector to the alternator.

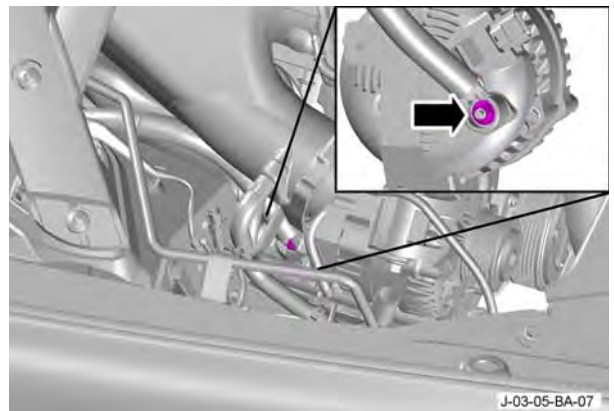


163. Lower the vehicle.

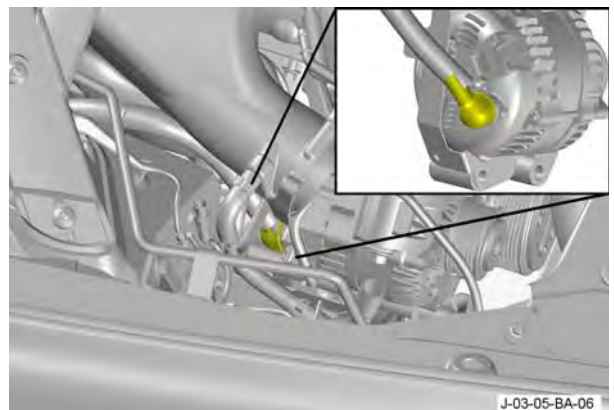
164. Move the positive lead into the correct position.



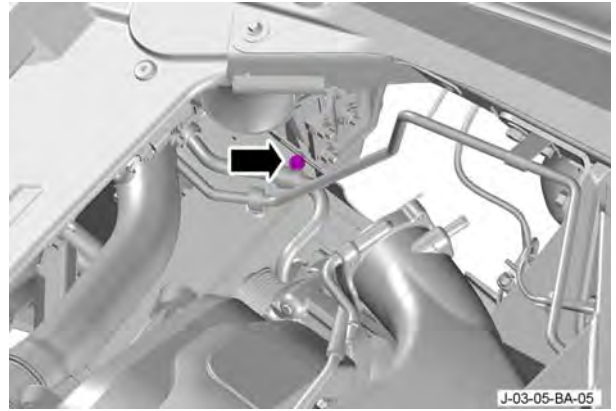
165. Install and torque the nut that attaches the positive lead to the alternator to 11 Nm.



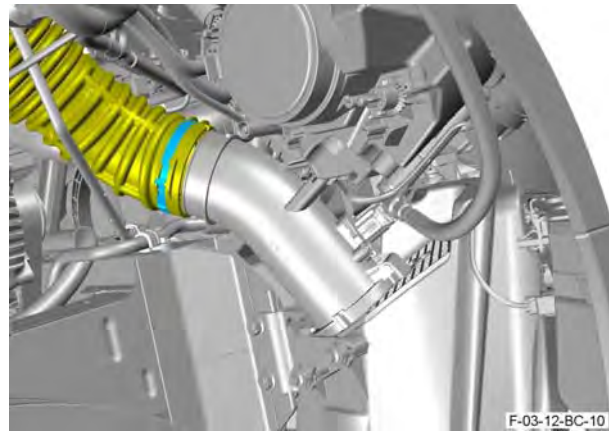
166. Move the rubber cover into the correct position.



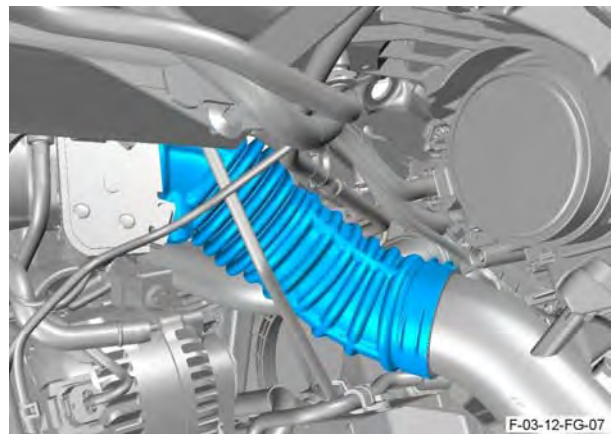
167. Install and torque the screw that attaches the A/C pipe to the body to 9 Nm.



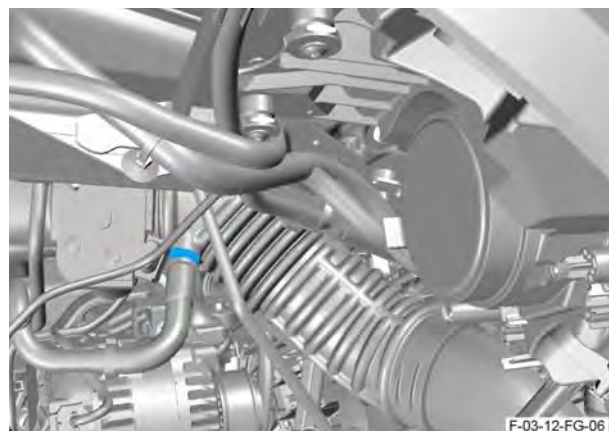
168. Install a new clip.



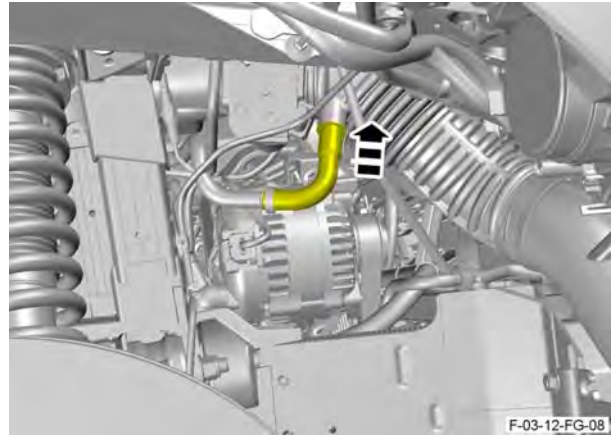
169. Install the air intake pipe.



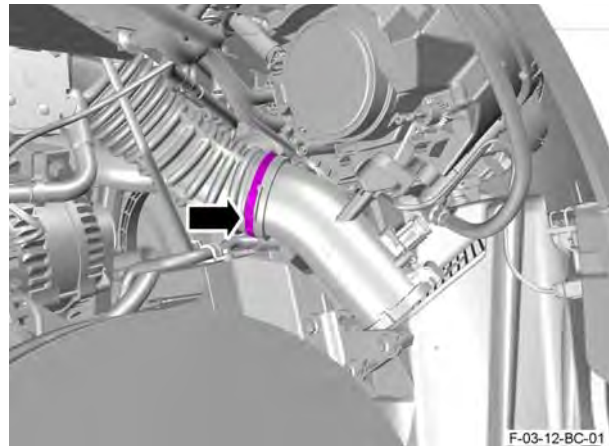
170. Install a new clip.



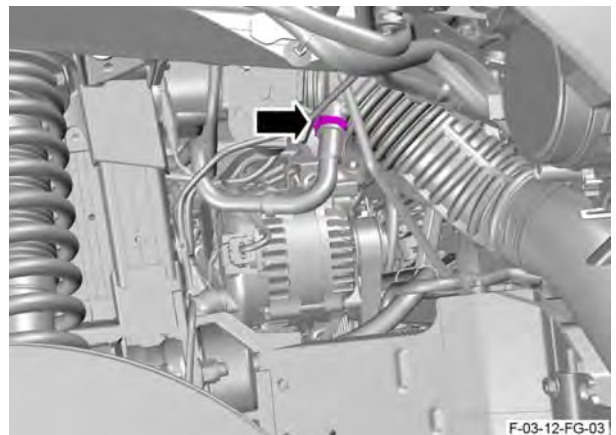
171. Connect the emissions hose to the intake hose.



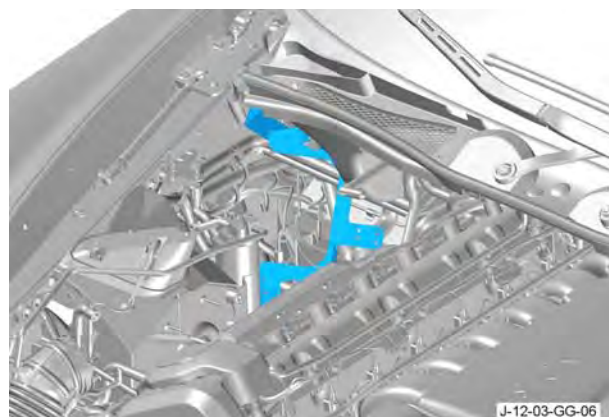
172. Tighten the clip that attaches the intake hose to the outlet pipe for the air cleaner.



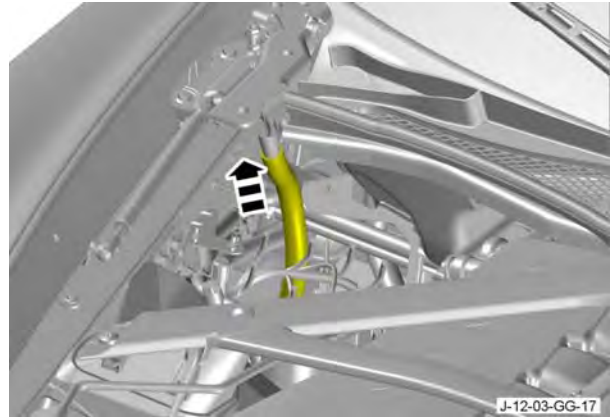
173. Tighten the clip that attaches the emissions hose to the intake hose.



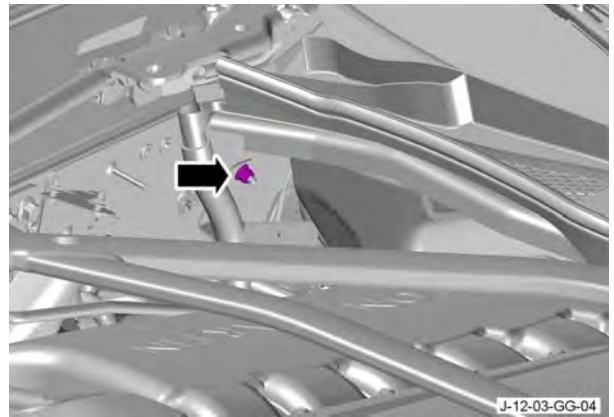
174. Install the bracket for the fuse box.



175. Connect the drain hose to the cowl vent screen.

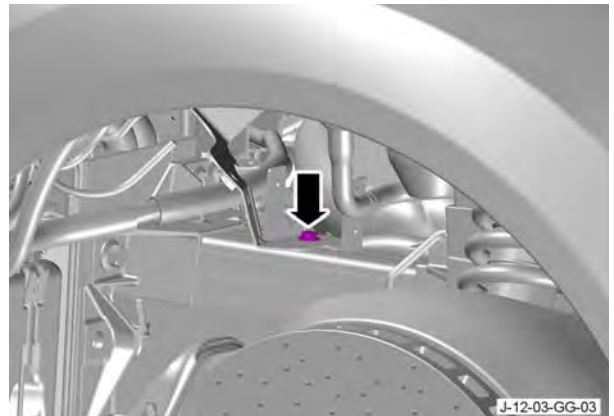


176. Install and torque the nut that attaches the bracket for the fuse box to the body to 9 Nm.

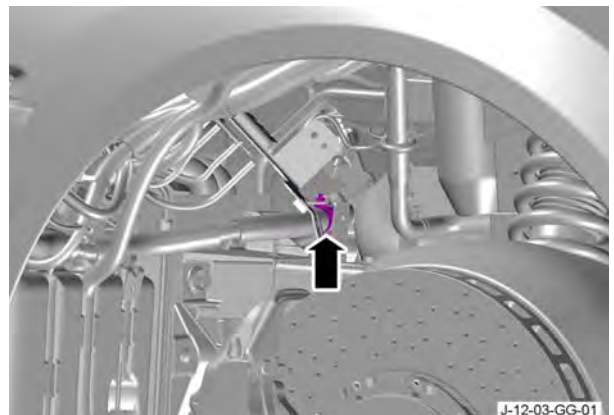


177. Lift the vehicle.

178. Install and torque the screw that attaches the bracket for the fuse box to the body to 9 Nm.



179. Install the wiring harness for the engine to the clip that attaches it to the bracket for the fuse box.






180. Install the tunnel heat shield (02.06.AE - Tunnel Heat Shield).
[\[Open Workshop Manual Procedure\]](#)
181. Install the left side front suspension bottom arm (04.01.AD - Left Side Front Suspension Bottom Arm).
[\[Open Workshop Manual Procedure\]](#)
182. Install the right side front suspension bottom arm (04.01.AC - Right Side Front Suspension Bottom Arm).
[\[Open Workshop Manual Procedure\]](#)
183. Install the bottom outlet tube for the evaporator (12.03.GC - Bottom Outlet Tube for the Evaporator).
[\[Open Workshop Manual Procedure\]](#)
184. Install the thermostat-housing to bypass pipe hose (03.03.MM - Thermostat-Housing to Bypass Pipe Hose).
[\[Open Workshop Manual Procedure\]](#)
185. Install the radiator hose (03.03.KS - Radiator Hose).
[\[Open Workshop Manual Procedure\]](#)
186. Install the fuse box for the engine bay (18.01.KH - Fuse Box for the Engine Bay - LHD).
[\[Open Workshop Manual Procedure\]](#)
187. Install the engine ground strap (14.01.EP - Engine Ground Strap).
[\[Open Workshop Manual Procedure\]](#)
188. Install the pipe from right side valve cover to right side flexible duct (03.08.AL - Pipe from Right Side Valve Cover to Right Side Flexible Duct).
[\[Open Workshop Manual Procedure\]](#)
189. Install the pipe from left side valve cover to left side flexible duct (03.08.AM - Pipe from Left Side Valve Cover to Left Side Flexible Duct).
[\[Open Workshop Manual Procedure\]](#)
190. Install the PAS fluid reservoir (11.02.AE - Reservoir and Cap for the Power Assisted Steering (PAS)).
[\[Open Workshop Manual Procedure\]](#)
191. Fill the transmission oil (07.01.BD - Transmission Oil).
[\[Open Workshop Manual Procedure\]](#)
192. Install the dipstick (03.02.DB - Dipstick).
[\[Open Workshop Manual Procedure\]](#)
193. Fill and Bleed the brakes with AMDS (06.07.DD - Brake Bleed - With AMDS).
[\[Open Workshop Manual Procedure\]](#)
194. Install the four wheels and tyres (04.04.EE - Wheels and Tyres - Vehicle Set).
[\[Open Workshop Manual Procedure\]](#)
195. Adjust the handbrake cable (06.05.DC - Adjustment for the Handbrake Cable).
[\[Open Workshop Manual Procedure\]](#)

196. Fill and bleed the PAS system (11.01.AA - Power Assisted Steering (PAS) System).
[\[Open Workshop Manual Procedure\]](#)
197. Do a check and adjust the four wheel alignment (04.00.AD - Check and Adjust the Four Wheel Alignment).
[\[Open Workshop Manual Procedure\]](#)

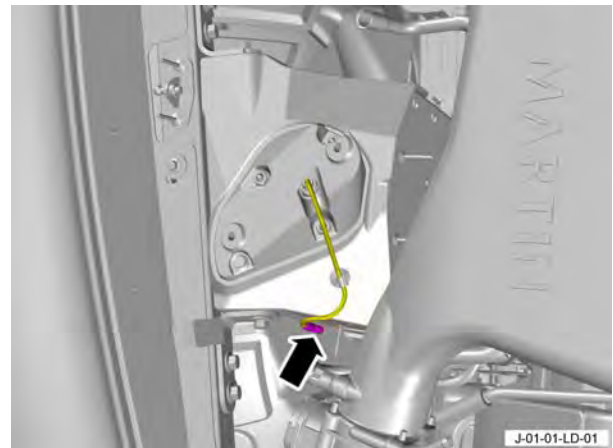
Published date: 2012-11-22 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.01.LD Right Side Front Crush Brace Bracket (Remove and Install New Part)**

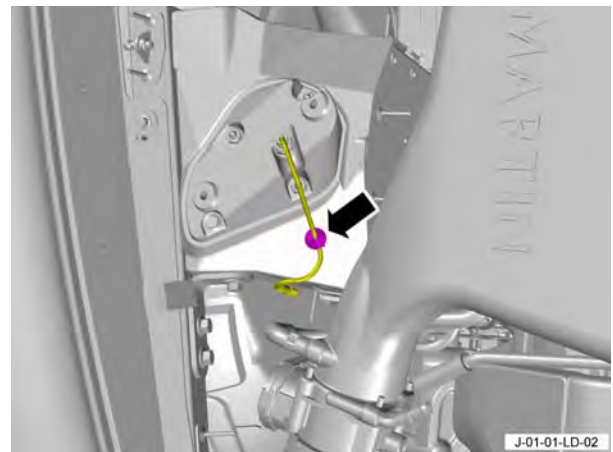
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

1. Remove the front crush brace (01.01.LC - Front Crush Brace).
[\[Open Workshop Manual Procedure\]](#)
2. Disconnect the electrical connector from the spring and damper assembly.



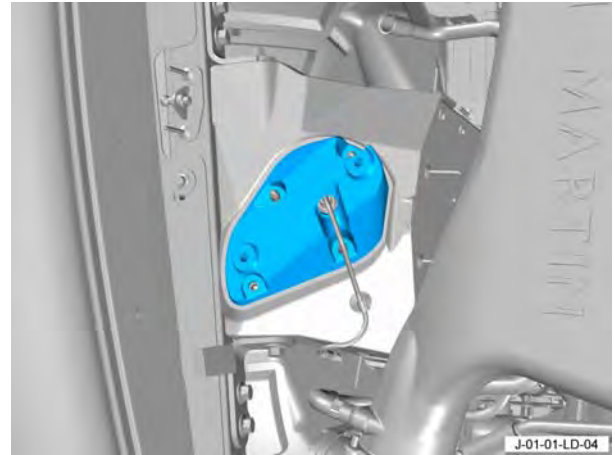
3. Release the fir tree clip that attaches the wiring harness for the spring and damper assembly to the body.



4. Remove the bolt and three nuts that attach the crush brace bracket to the body.



5. Remove the crush brace bracket.

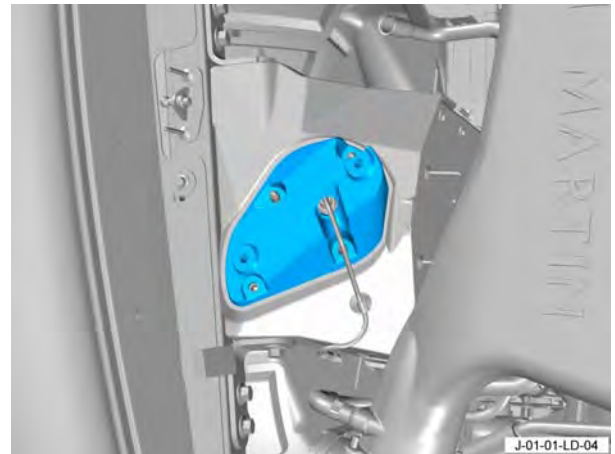


Install

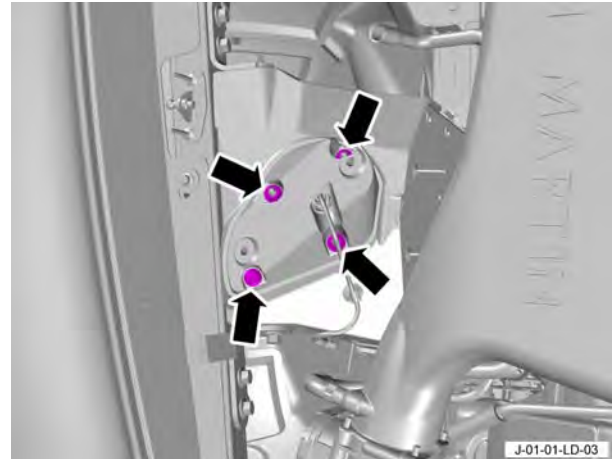
1. Put the wiring harness for the spring and damper assembly through the crush brace bracket.



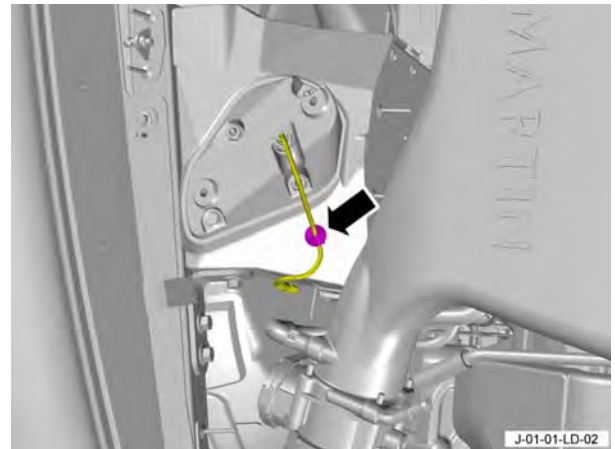
2. Install the crush brace bracket.



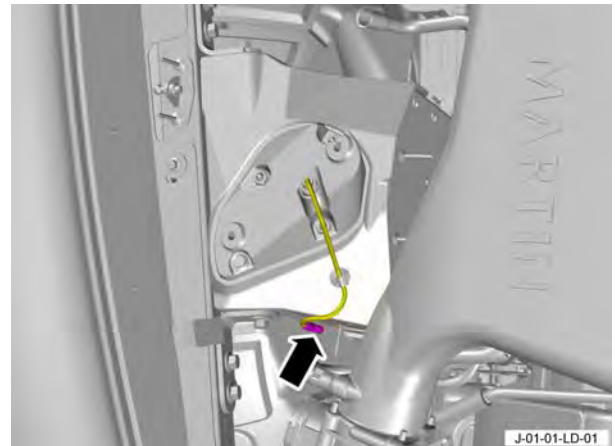
3. Install and torque the bolt and the three nuts that attach the crush brace bracket to the body to 23 Nm.



4. Install the fir tree clip that attaches the wiring harness for the spring and damper assembly to the body.



5. Connect the electrical connector to the spring and damper assembly.






6. Install the front crush brace (01.01.LC - Front Crush Brace).

[\[Open Workshop Manual Procedure\]](#)

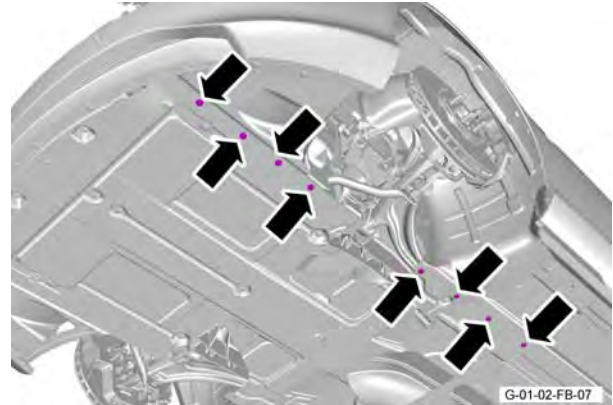
Published date: 2011-05-06 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.02.FB Front Left Side Wheel-Arch Liner (Remove and Install New Part)**

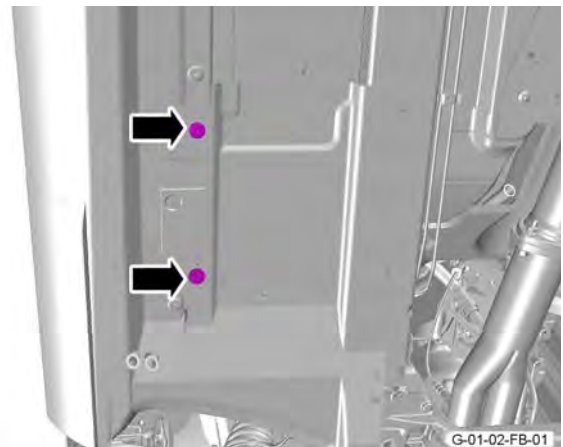
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

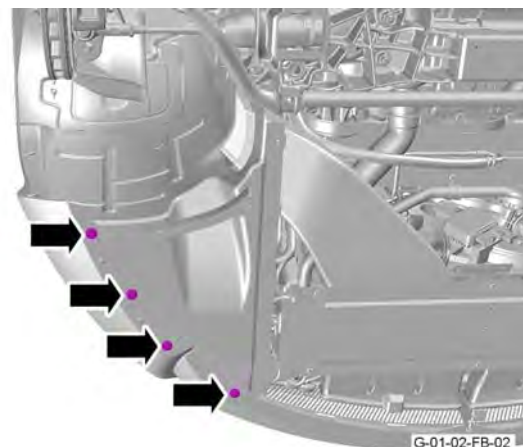
1. Remove the wheel and tyre (04.04.EC - Wheel and Tyre).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the eight screws that attach the wheel-arch liner to the body.



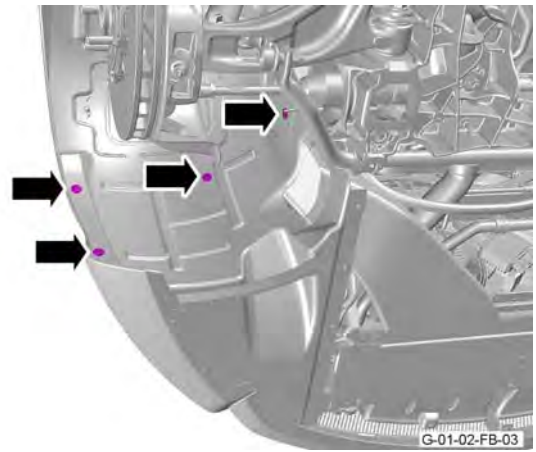
3. Remove the screw and the bolt that attach the wheel-arch liner to the body.



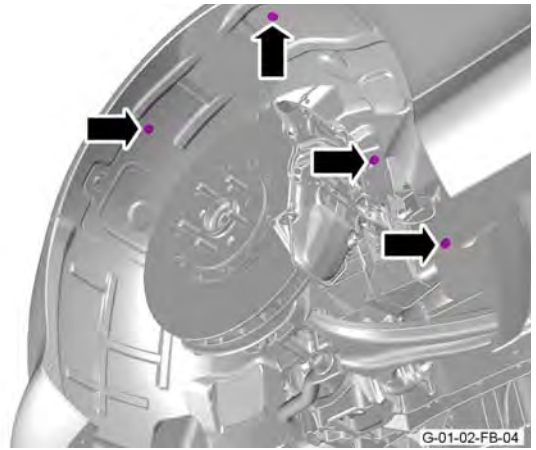
4. Remove the four screws that attach the wheel-arch liner to the front bumper cover.



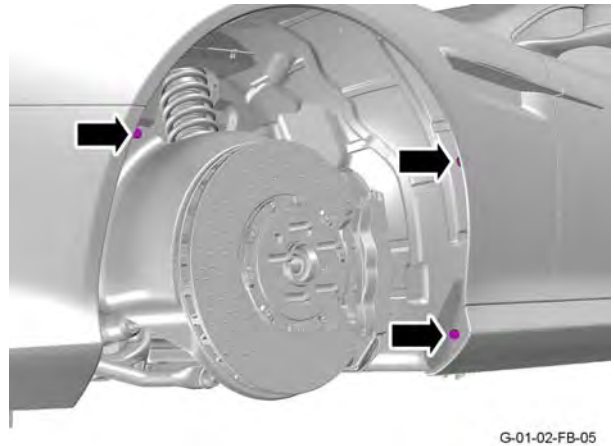
5. Remove the four screws that attach the wheel-arch liner to the body.



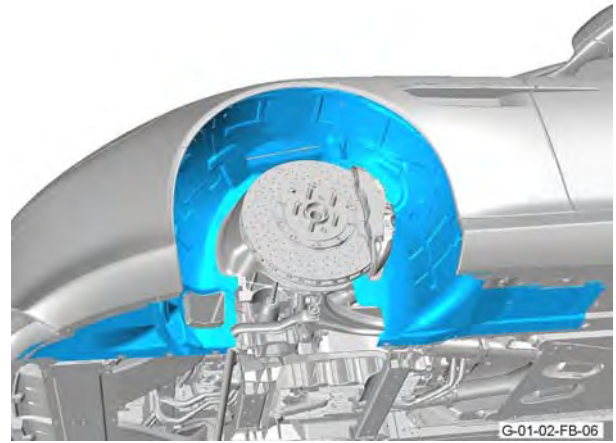
6. Remove the four screws that attach the wheel-arch liner to the body.



7. Remove the three screws that attach the wheel-arch liner to the body.

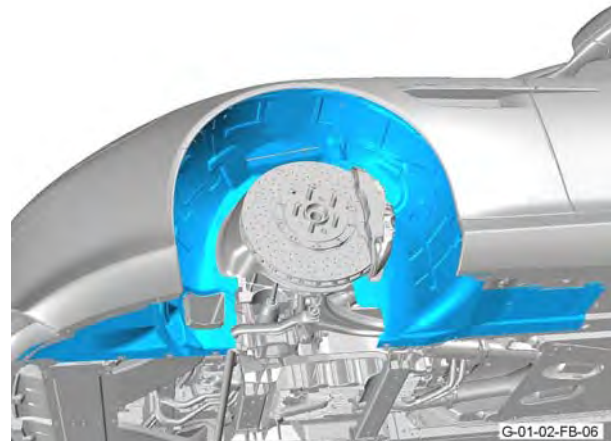


8. Remove the wheel-arch liner.

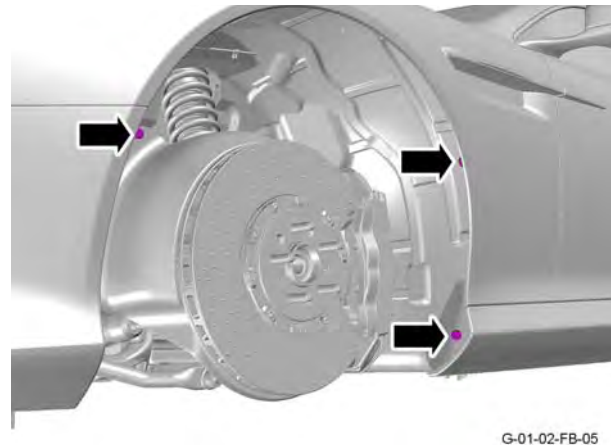


Install

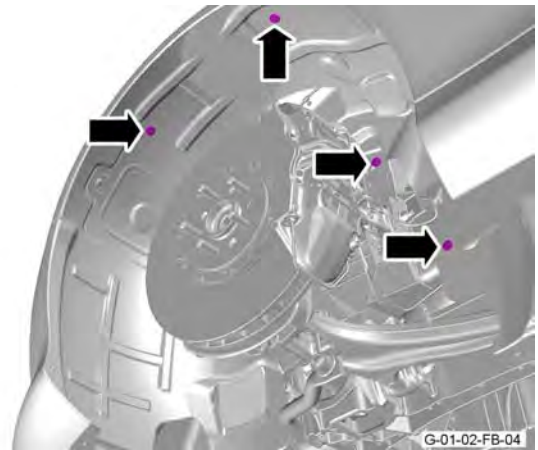
1. Install the wheel-arch liner.



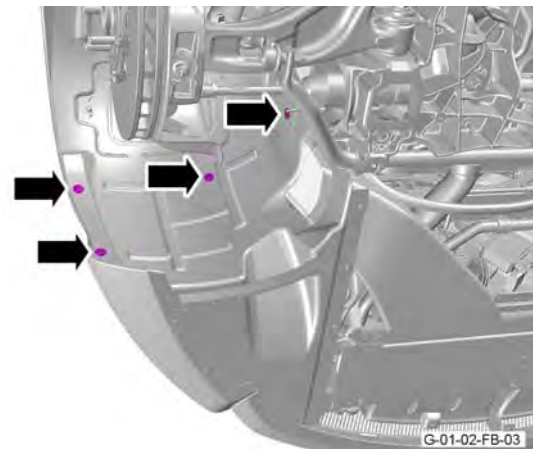
2. Install and torque the three screws that attach the wheel-arch liner to the body to 5 Nm.



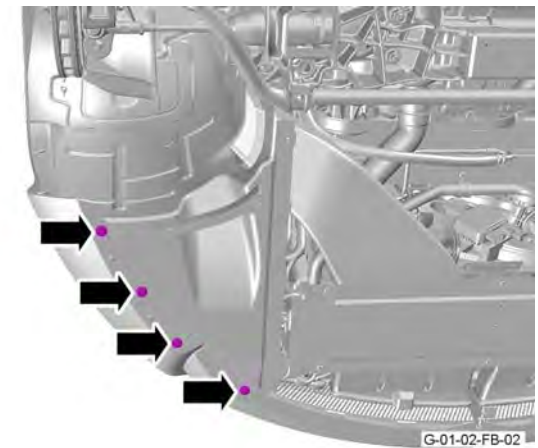
3. Install and torque the four screws that attach the wheel-arch liner to the body to 5 Nm.



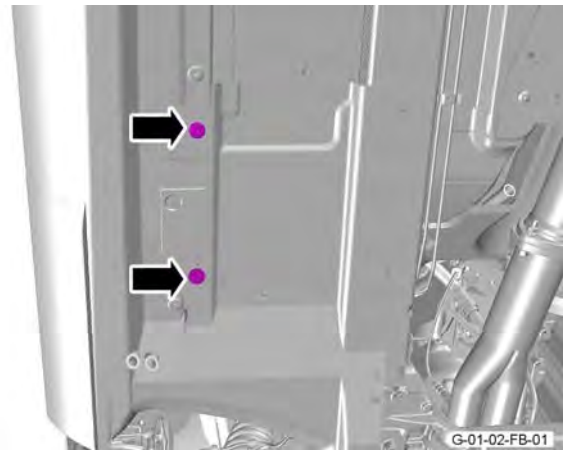
4. Install and torque the four screws that attach the wheel-arch liner to the body to 5 Nm.



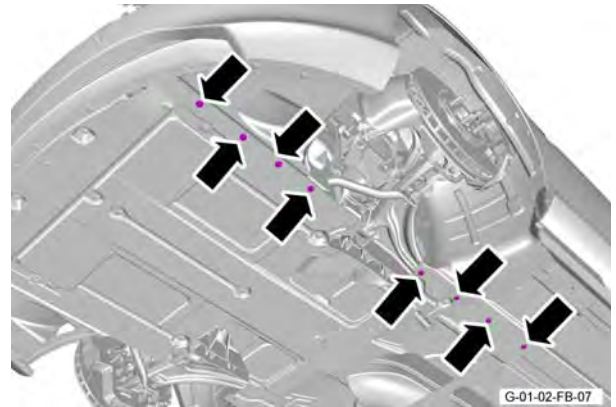
5. Install and torque the four screws that attach the wheel-arch liner to the front bumper cover to 5 Nm.



6. Install and torque the screw and the bolt that attach the wheel-arch liner to the body to 5 Nm.



7. Install and torque the eight screws that attach the wheel-arch liner to the body to 9 Nm.






8. Install the wheel and tyre (04.04.EC - Wheel and Tyre).

[\[Open Workshop Manual Procedure\]](#)

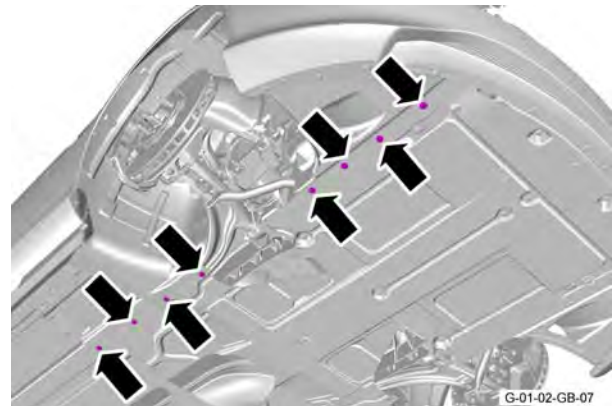
Published date: 2011-04-15 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.02.GB Front Right Side Wheel-Arch Liner (Remove and Install New Part)**

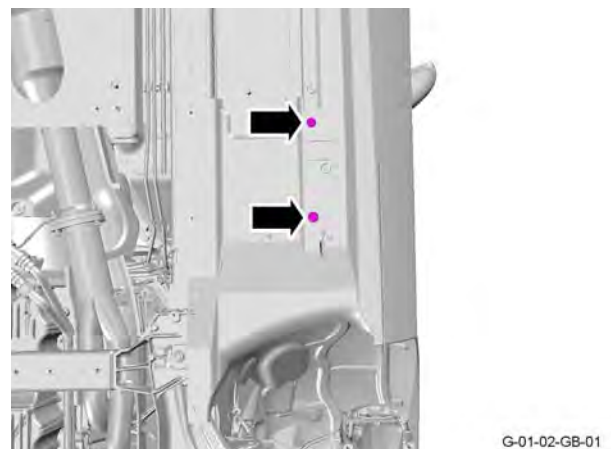
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

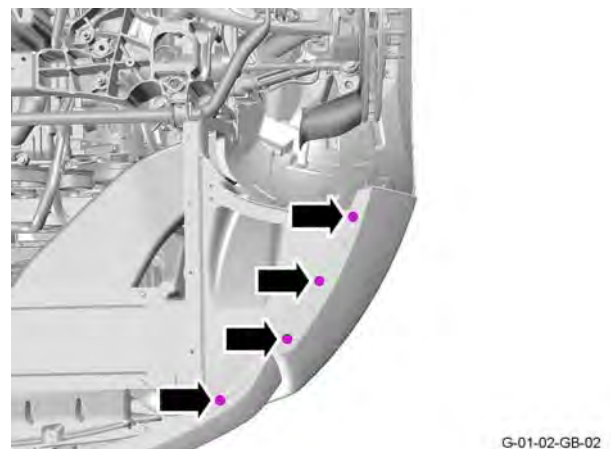
1. Remove the wheel and tyre (04.04.EC - Wheel and Tyre).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the eight screws that attach the wheel-arch liner to the body.



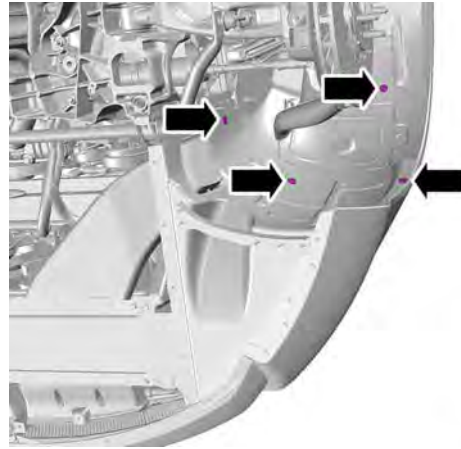
3. Remove the screw and the bolt that attach the wheel-arch liner to the body.



4. Remove the four screws that attach the wheel-arch liner to the front bumper cover.

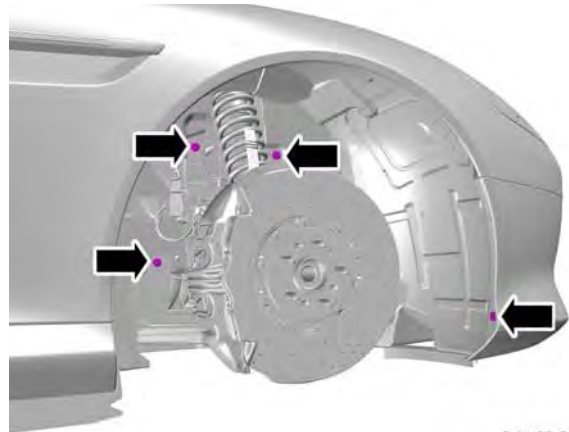


5. Remove the four screws that attach the wheel-arch liner to the body.



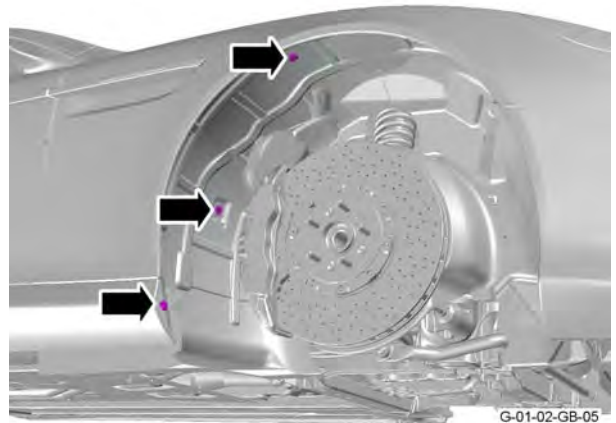
G-01-02-GB-03

6. Remove the four screws that attach the wheel-arch liner to the body.



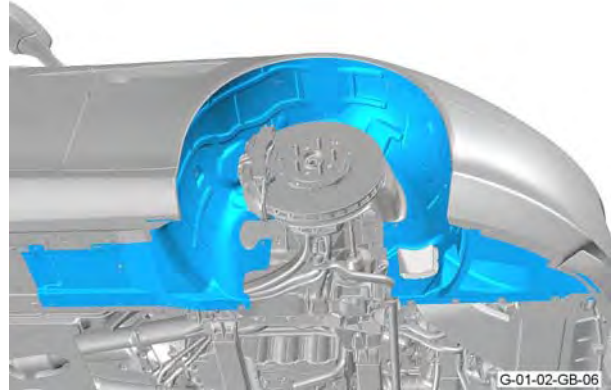
G-01-02-GB-04

7. Remove the three screws that attach the wheel-arch liner to the body.



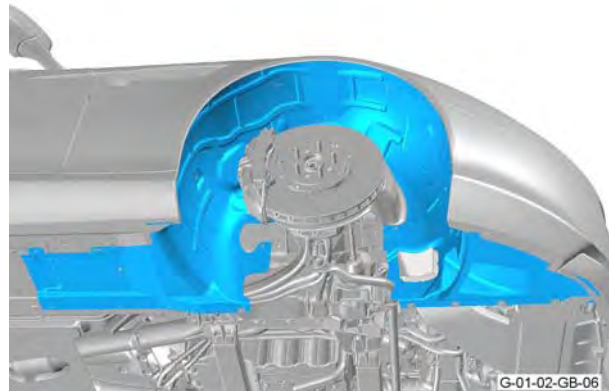
G-01-02-GB-05

8. Remove the wheel-arch liner.

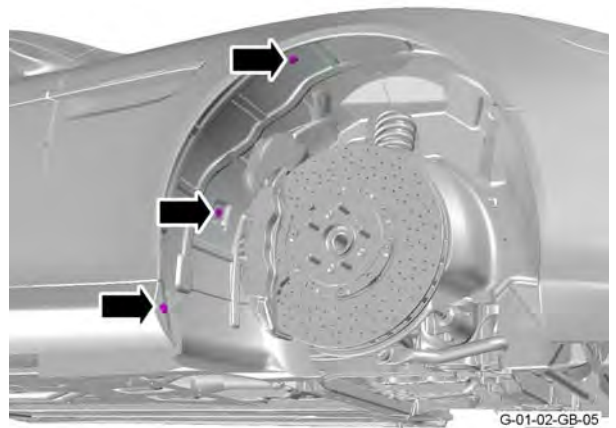


Install

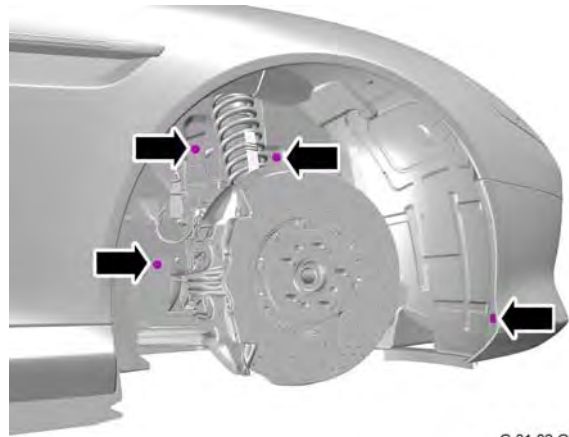
1. Install the wheel-arch liner.



2. Install and torque the three screws that attach the wheel-arch liner to the body to 5 Nm.

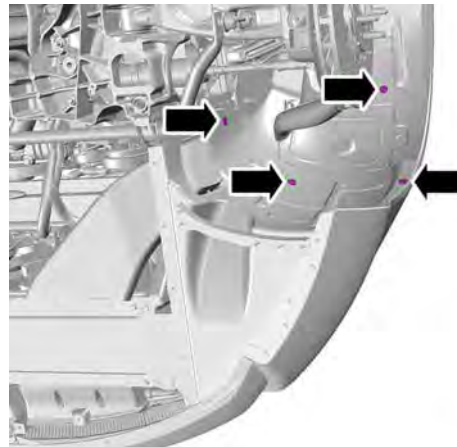


3. Install and torque the four screws that attach the wheel-arch liner to the body to 5 Nm.



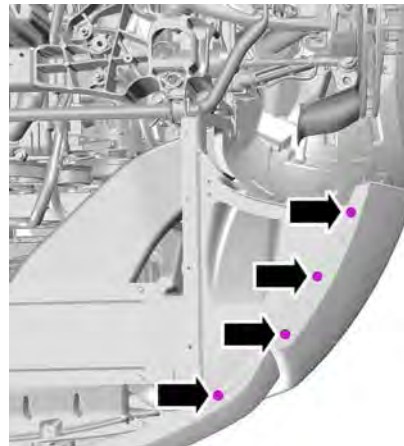
G-01-02-GB-04

4. Install and torque the four screws that attach the wheel-arch liner to the body to 5 Nm.



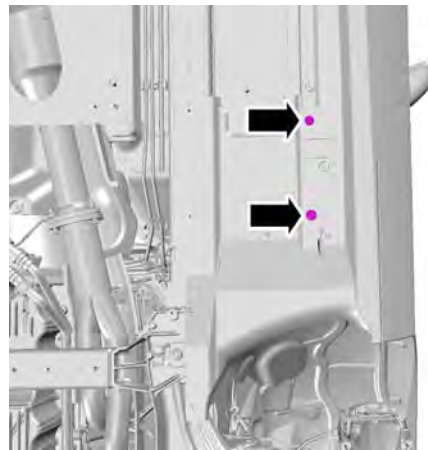
G-01-02-GB-03

5. Install and torque the four screws that attach the wheel-arch liner to the front bumper cover to 5 Nm.



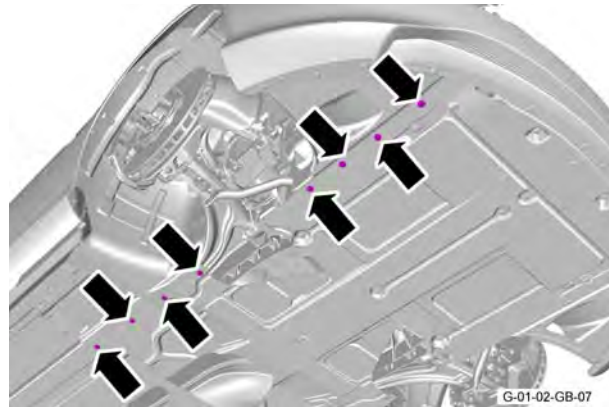
G-01-02-GB-02

6. Install and torque the screw and the bolt that attach the wheel-arch liner to the body to 5 Nm.



G-01-02-GB-01

7. Install and torque the eight screws that attach the wheel-arch liner to the body to 9 Nm.






G-01-02-GB-07

8. Install the wheel and tyre (04.04.EC - Wheel and Tyre).

[\[Open Workshop Manual Procedure\]](#)

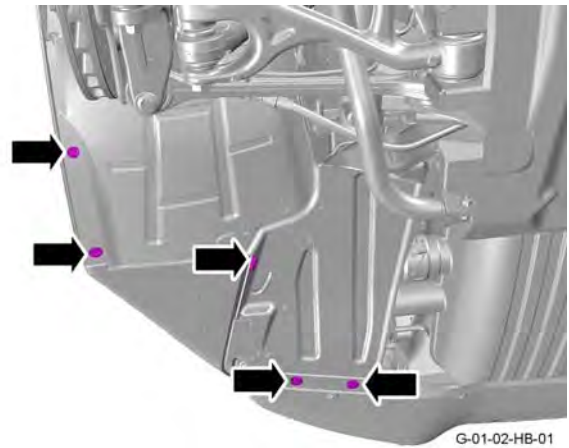
Published date: 2011-04-15 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.02.HB Rear Right Side Wheel-Arch Liner (Remove and Install New Part)**

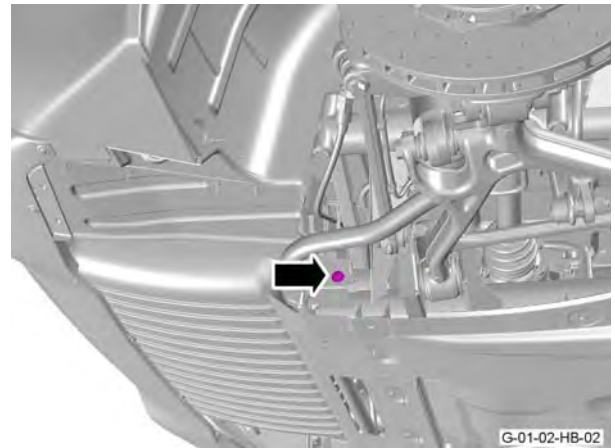
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

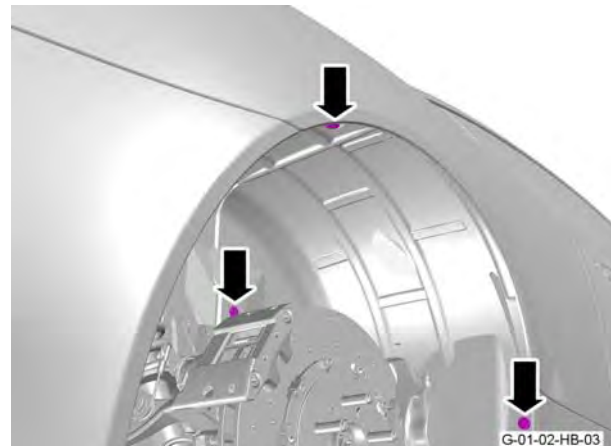
1. Remove the wheel and tyre (04.04.EC - Wheel and Tyre).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the five screws that attach the wheel-arch liner to the rear bumper cover.



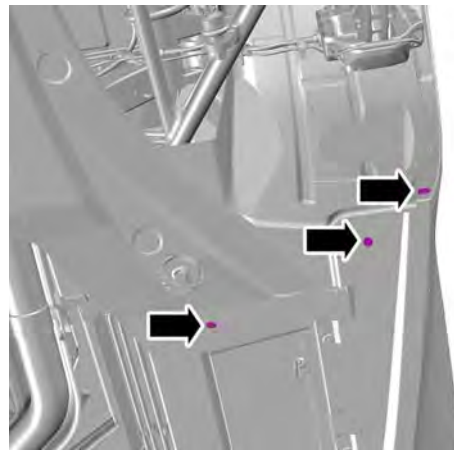
3. Remove the clip that attaches the wheel-arch liner to the rear subframe.



4. Remove the three screws that attach the wheel-arch liner to the body.

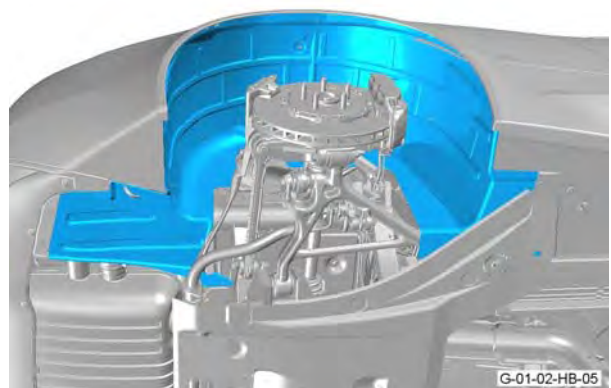


5. Remove the three screws that attach the wheel-arch liner to the body.



G-01-02-HB-04

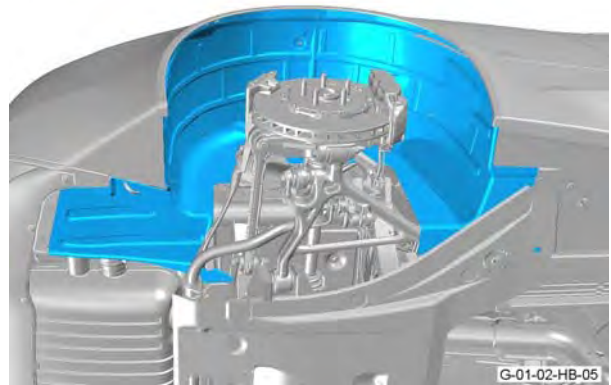
6. Remove the wheel-arch liner.



G-01-02-HB-05

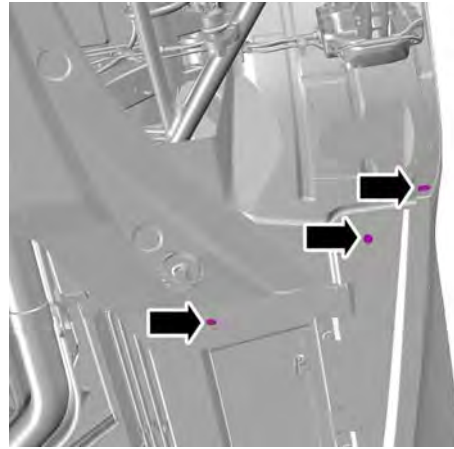
Install

1. Install the wheel-arch liner.



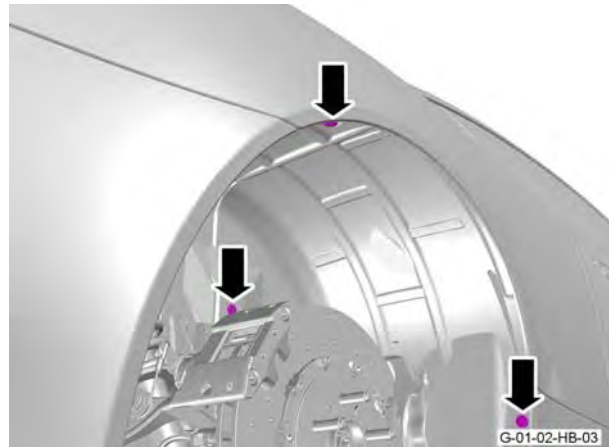
G-01-02-HB-05

2. Install and torque the three screws that attach the wheel-arch liner to the body to 5 Nm.



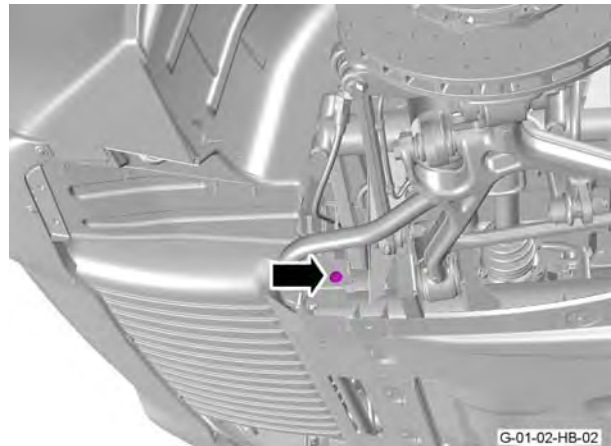
G-01-02-HB-04

3. Install and torque the three screws that attach the wheel-arch liner to the body to 5 Nm.



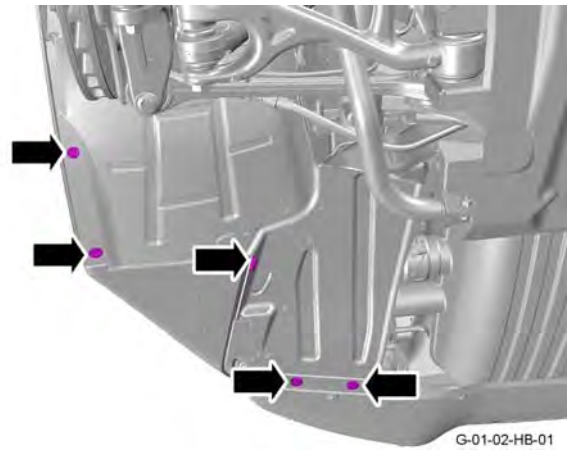
G-01-02-HB-03

4. Install the clip that attaches the wheel-arch liner to the rear subframe.



G-01-02-HB-02




5. Install and torque the five screws that attach the wheel-arch liner to the rear bumper cover to 5 Nm.



6. Install the wheel and tyre (04.04.EC - Wheel and Tyre).
[\[Open Workshop Manual Procedure\]](#)

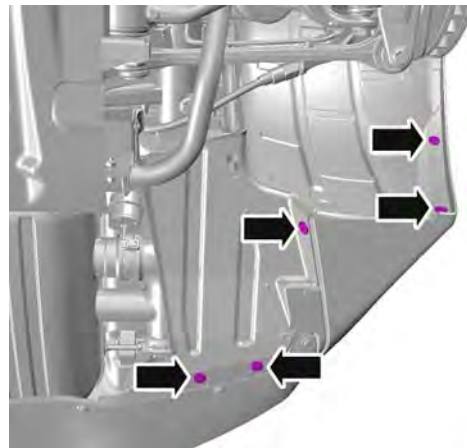
Published date: 2011-04-15 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.02.JB Rear Left Side Wheel-Arch Liner (Remove and Install New Part)**

-  WSM Data
-  Included Procedures
-  Is Used In

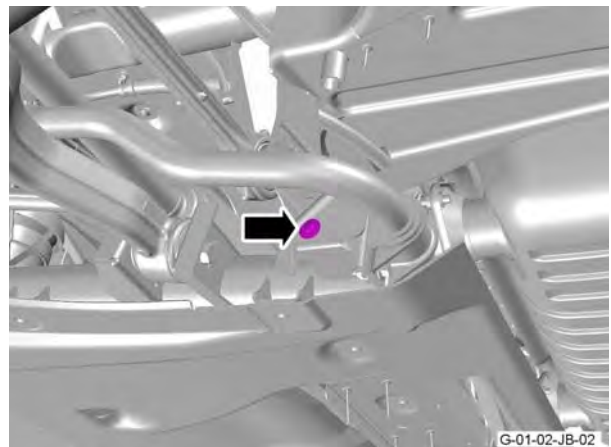
Removal

1. Remove the wheel and tyre (04.04.EC - Wheel and Tyre).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the five screws that attach the wheel-arch liner to the rear bumper cover.



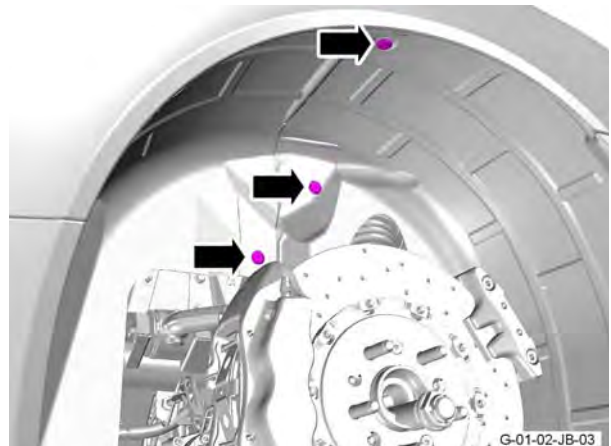
G-01-02-JB-01

3. Remove the clip that attaches the wheel-arch liner to the rear subframe.



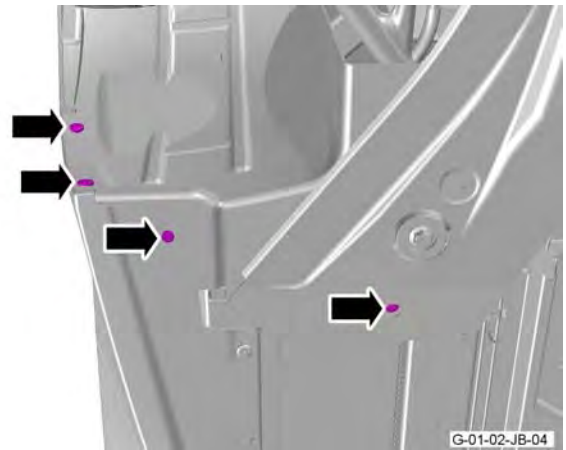
G-01-02-JB-02

4. Remove the three screws that attach the wheel-arch liner to the body.

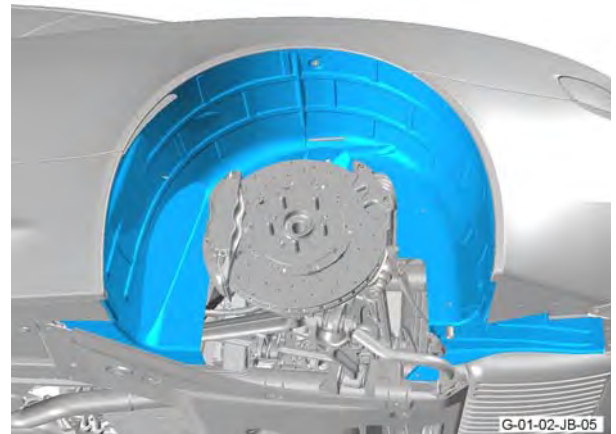


G-01-02-JB-03

5. Remove the four screws that attach the wheel-arch liner to the body.

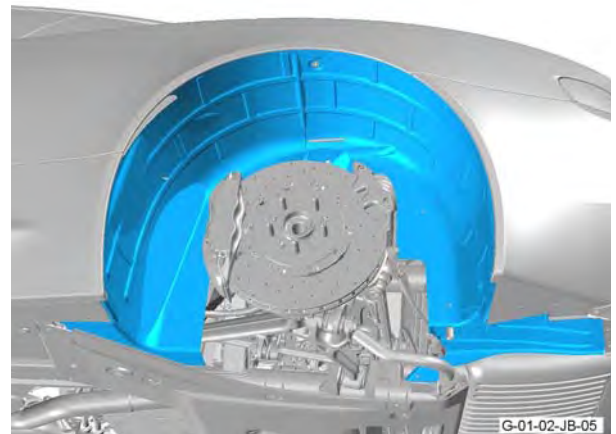


6. Remove the wheel-arch liner.

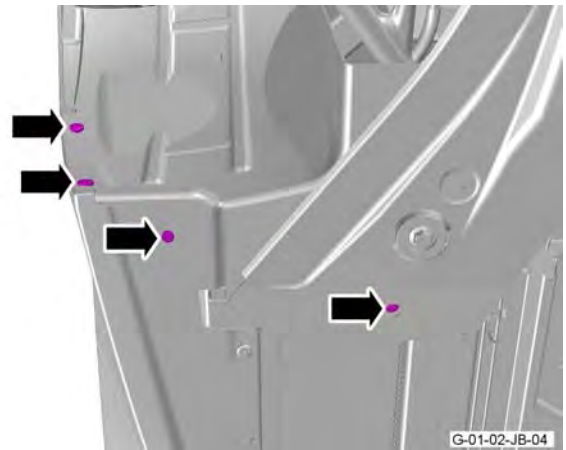


Install

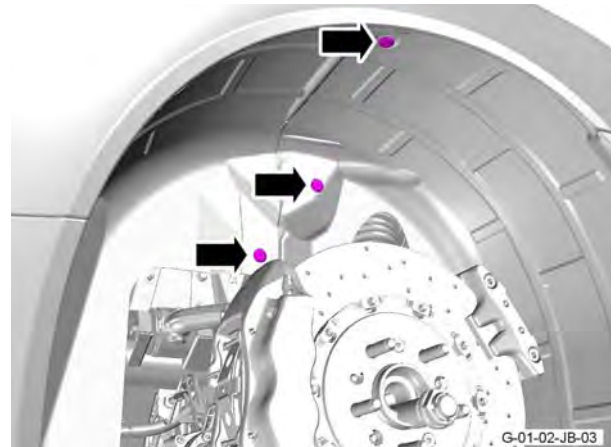
1. Install the wheel-arch liner.



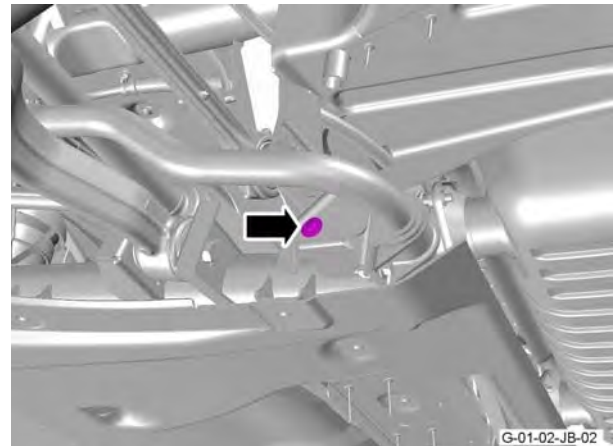
2. Install and torque the four screws that attach the wheel-arch liner to the body to 5 Nm.



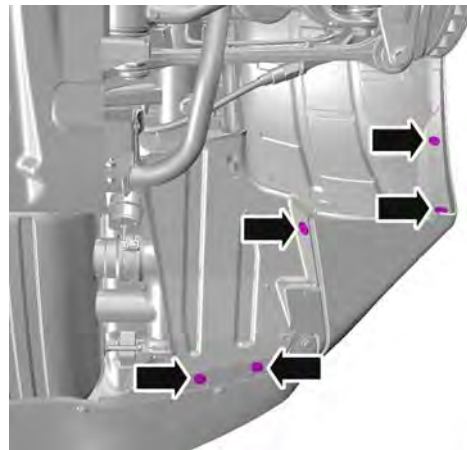
3. Install and torque the three screws that attach the wheel-arch liner to the body to 5 Nm.



4. Install the clip that attaches the wheel-arch liner to the rear subframe.



5. Install and torque the five screws that attach the wheel-arch liner to the rear bumper cover to 5 Nm.






G-01-02-JB-01

6. Install the wheel and tyre (04.04.EC - Wheel and Tyre).

[\[Open Workshop Manual Procedure\]](#)

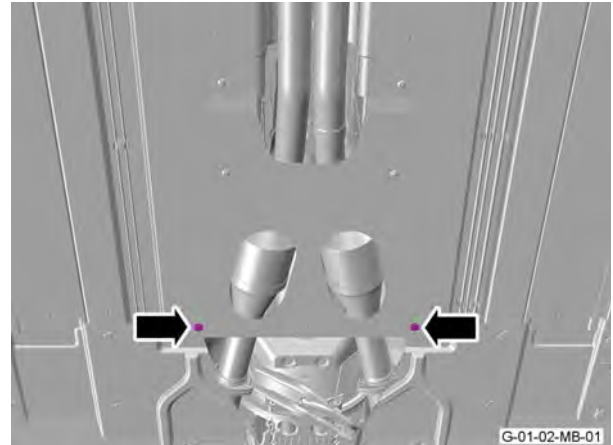
Published date: 2011-04-15 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.02.MB Centre Undertray (Remove and Install New Part)**

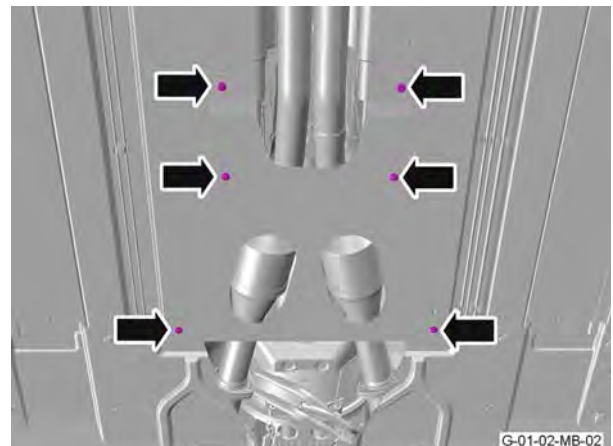
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

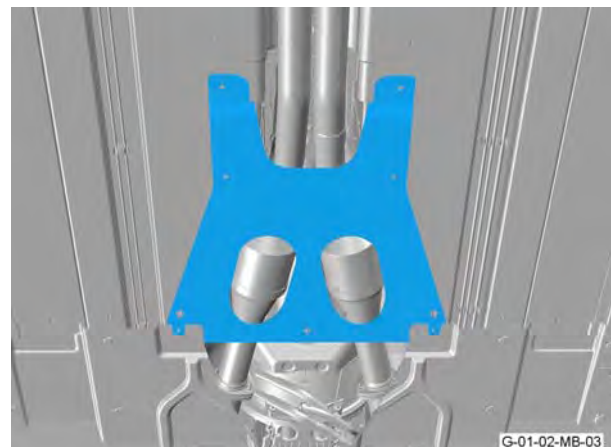
1. Use the applicable equipment to lift the vehicle and make it safe.
2. Remove the two screws that attach the front undertray to the centre undertray.



3. Remove the six screws that attach the centre undertray to the body.

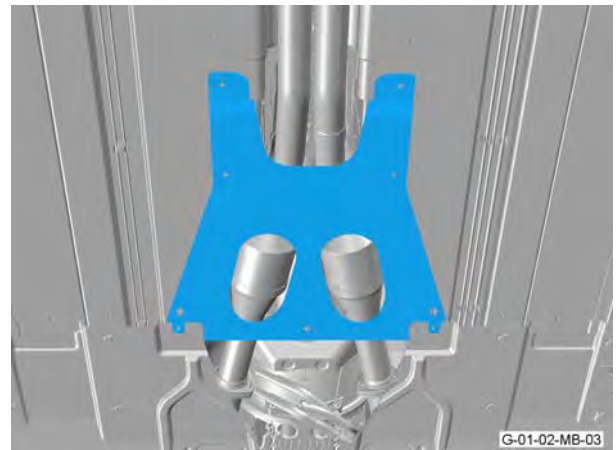


4. Remove the centre undertray.

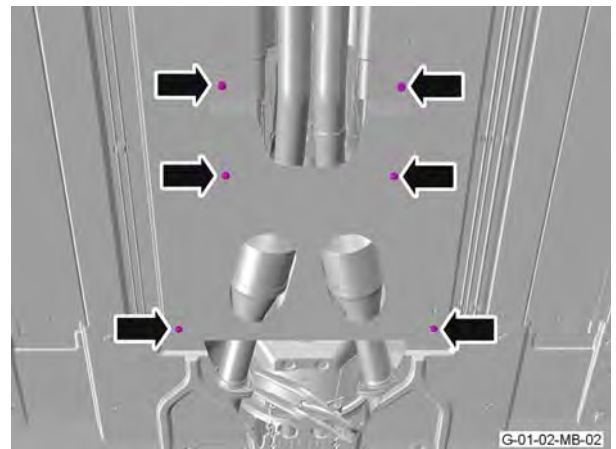


Install

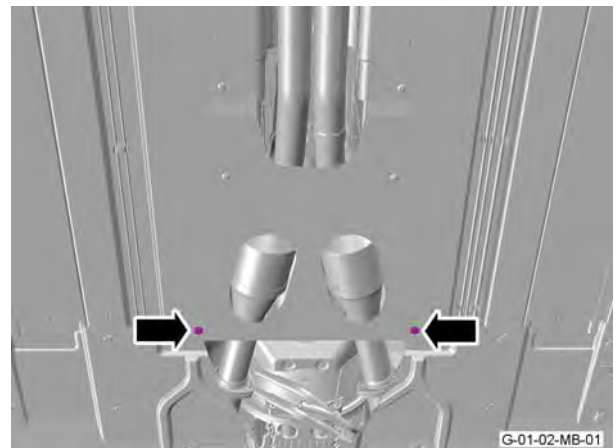
1. Install the centre undertray.



2. Install and torque the six screws that attach the centre undertray to the body to 23 Nm.






3. Install and torque the two screws that attach the front undertray to the centre undertray to 9 Nm.



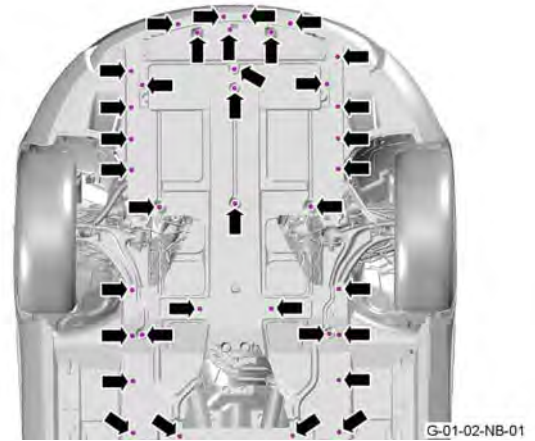
Published date: 2011-04-14 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.02.NB Front Undertray (Remove and Install New Part)**

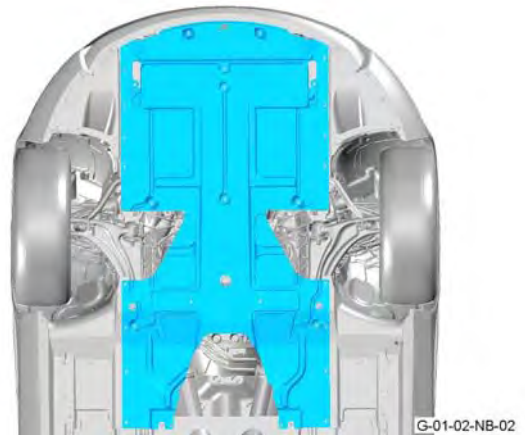
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

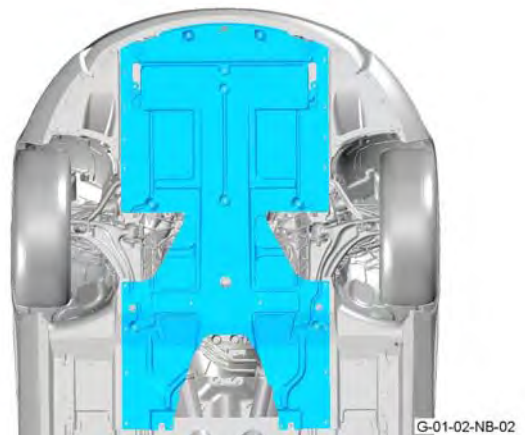
1. Use the applicable equipment to lift the vehicle and make it safe.
2. Remove the 36 screws that attach the front undertray to the body.



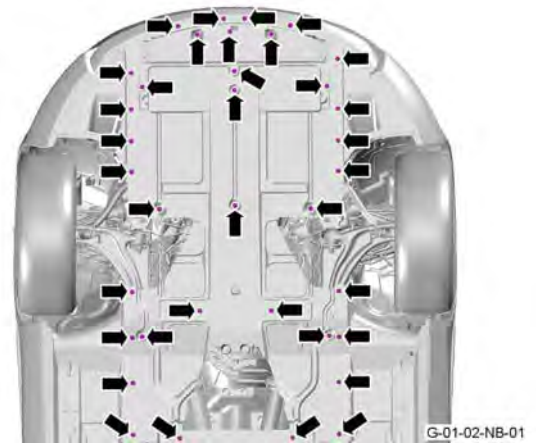
3. Remove the front undertray.

*Install*

1. Install the front undertray






2. Install and torque the 36 screws that attach the front undertray to the body to 9 Nm.



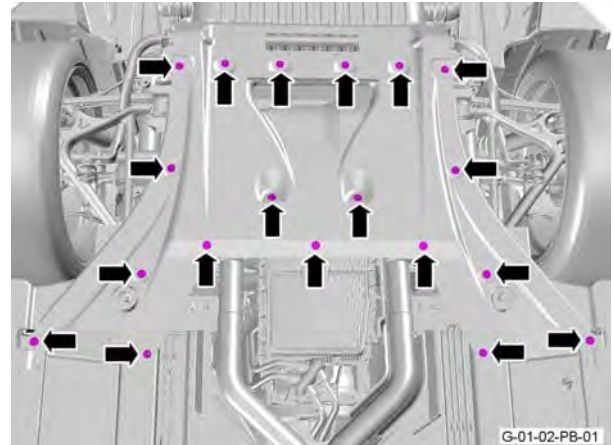
Published date: 2011-04-14 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.02.PB Rear Undertray (Remove and Install New Part)**

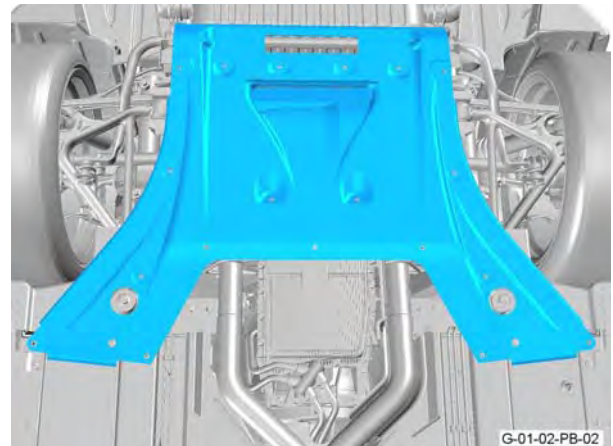
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

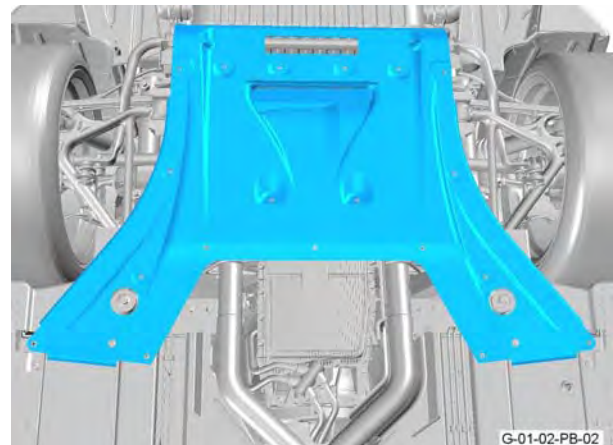
1. Use the applicable equipment to lift the vehicle and make it safe.
2. Remove the 19 screws that attach the rear undertray to the body.



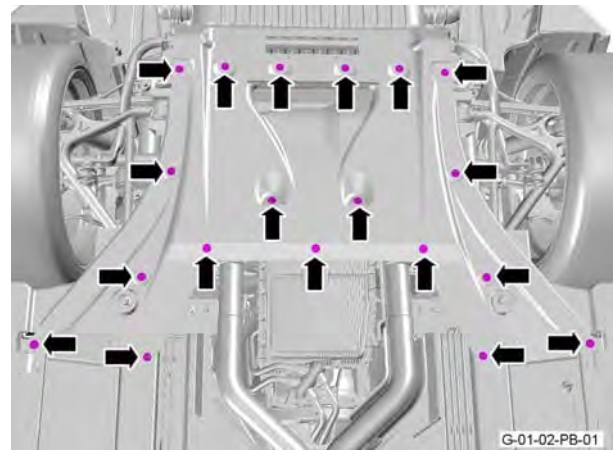
3. Remove the rear undertray.

*Install*

1. Install the rear undertray.






2. Install and torque the 19 screws that attach the rear undertray to the body to 30 Nm.



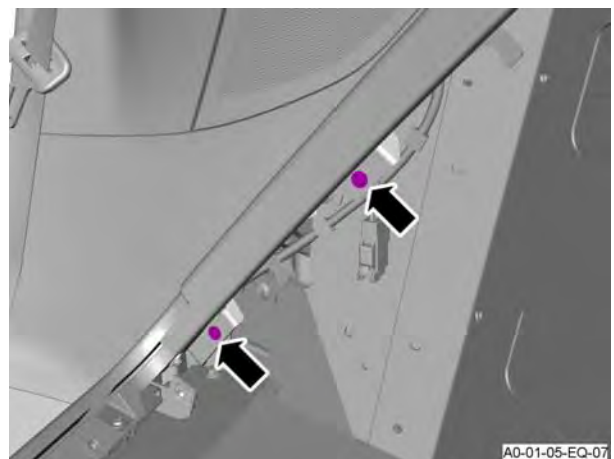
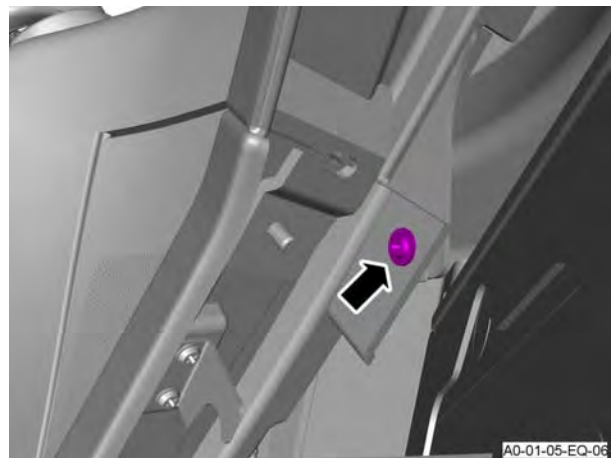
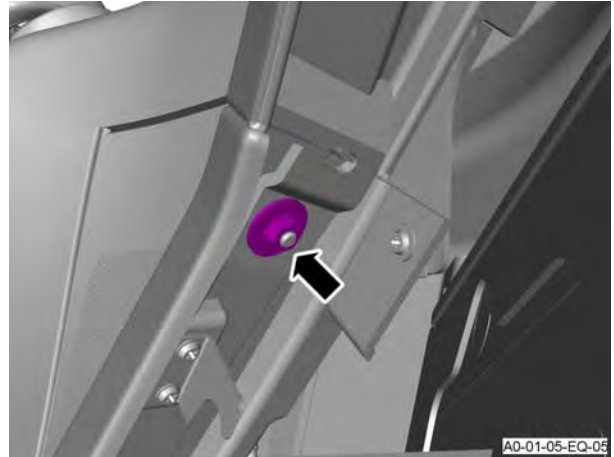
Published date: 2011-04-14 Procedure last changed: 2015-06-25 16:39:17

Small Normal Large**01.05.EQ Outer Panel Assembly for the Right Side Bulkhead (Remove and Install New Part)**

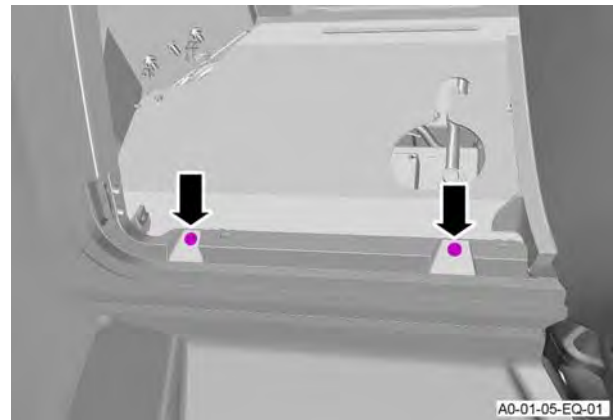
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

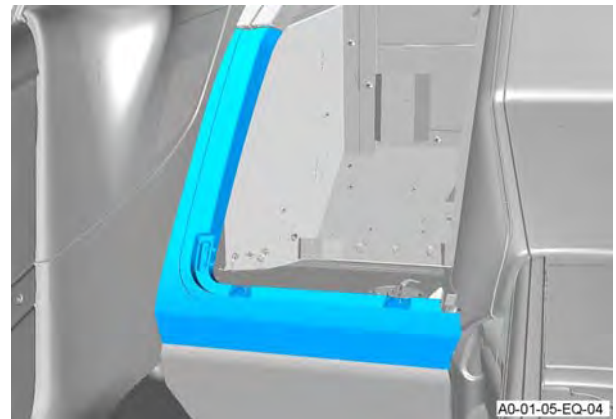
1. Remove the panel assembly for the right side stowage compartment (01.05.ET - Panel Assembly for the Right Side Stowage Compartment).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the nut that attaches the outer panel assembly for the right side bulkhead to the package tray panel.
3. Remove the screw that attaches the outer panel assembly for the right side bulkhead to the right body side trim panel.
4. Remove the two screws that attach the outer panel assembly for the right side bulkhead to the right body side trim panel.



5. Remove the two screws that attach the outer panel assembly for the right side bulkhead to the body.

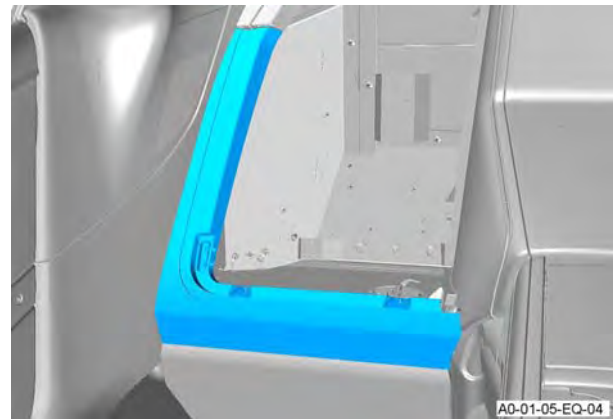


6. Remove the outer panel assembly for the right side bulkhead.

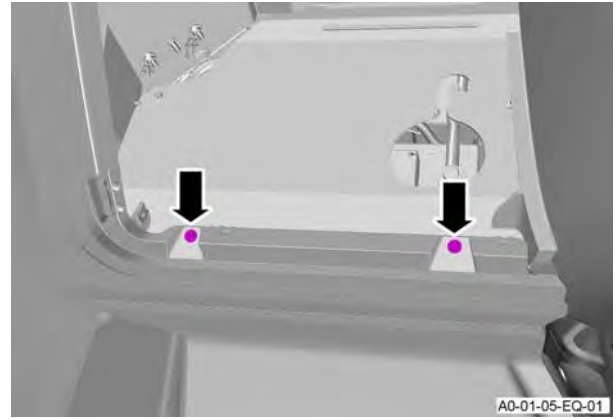


Install

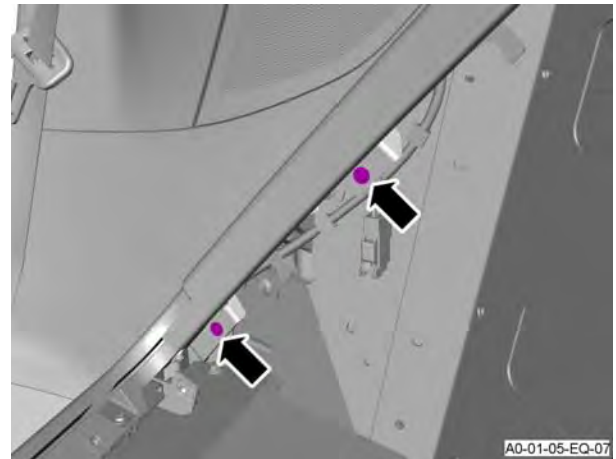
1. Remove the outer panel assembly for the right side bulkhead.



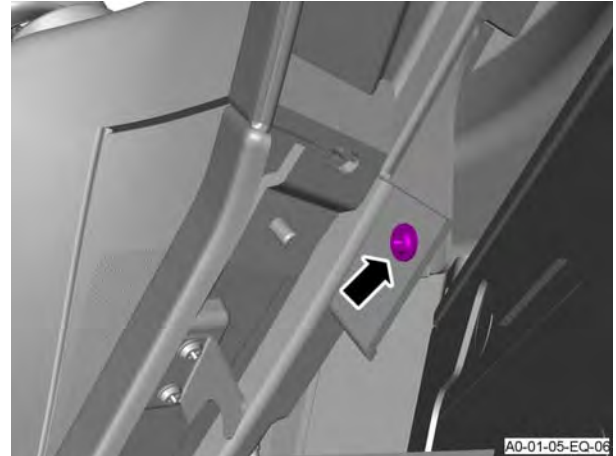
2. Install and tighten the two screws that attach the outer panel assembly for the right side bulkhead to the body.



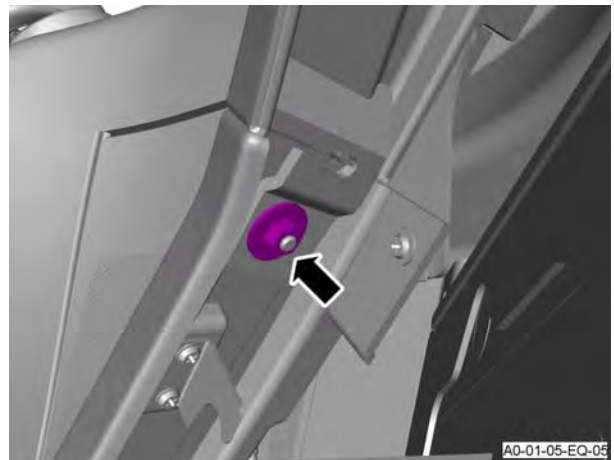
3. Install and tighten the two screws that attach the outer panel assembly for the right side bulkhead to the right body side trim panel.



4. Install and tighten the screw that attaches the outer panel assembly for the right side bulkhead to the right body side trim panel.






5. Install and tighten the nut that attaches the outer panel assembly for the right side bulkhead to the package tray panel.



6. Install the panel assembly for the right side stowage compartment (01.05.ET - Panel Assembly for the Right Side Stowage Compartment).
[\[Open Workshop Manual Procedure\]](#)

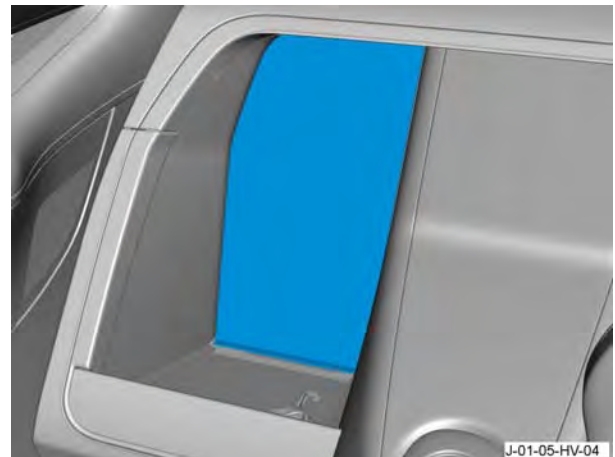
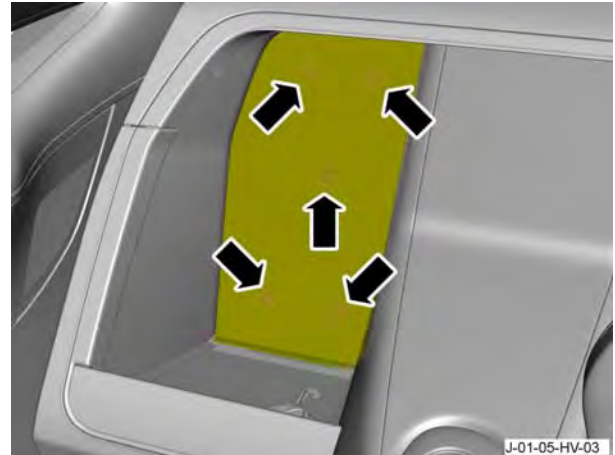
Published date: 2011-05-13 Procedure last changed: 2015-06-25 16:39:17

Small Normal Large**01.05.ER Cover Panel Assembly for the Right Side Bulkhead (Remove and Install New Part)**

-  WSM Data
-  Included Procedures
-  Is Used In

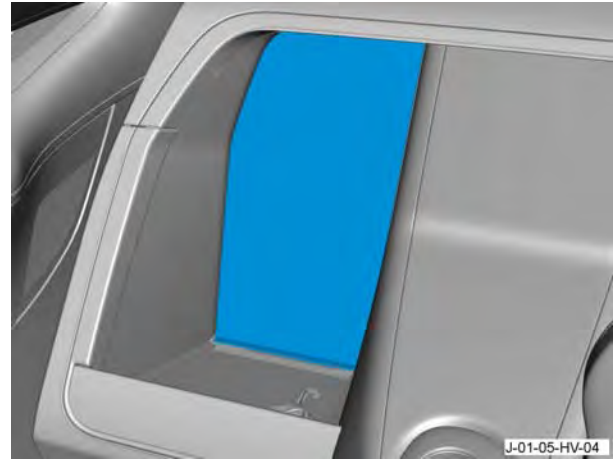
Removal

1. Remove the panel assembly for the right side bottom stowage compartment (01.05.EX - Panel Assembly for the Right Side Bottom Stowage Compartment).
[\[Open Workshop Manual Procedure\]](#)
2. Release the cover panel assembly for the right side bulkhead from the five Velcro clips that attach it to the body.
3. Remove the cover panel assembly for the right side bulkhead.

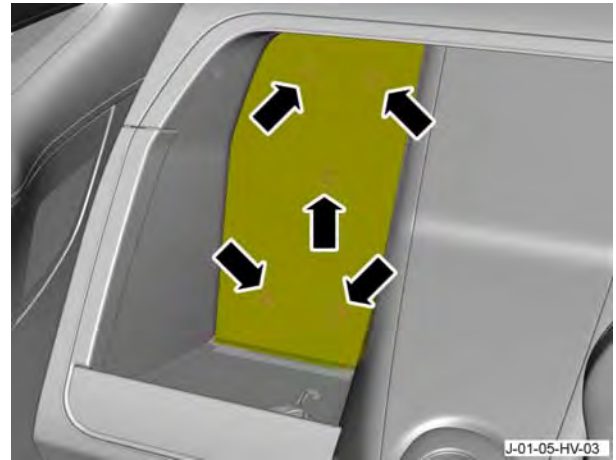


Install

1. Put the cover panel assembly for the right side bulkhead into position.






2. Install the cover panel assembly for the right side bulkhead from the five Velcro clips that attach it to the body.



3. Install the panel assembly for the right side bottom stowage compartment (01.05.EX - Panel Assembly for the Right Side Bottom Stowage Compartment).
[\[Open Workshop Manual Procedure\]](#)

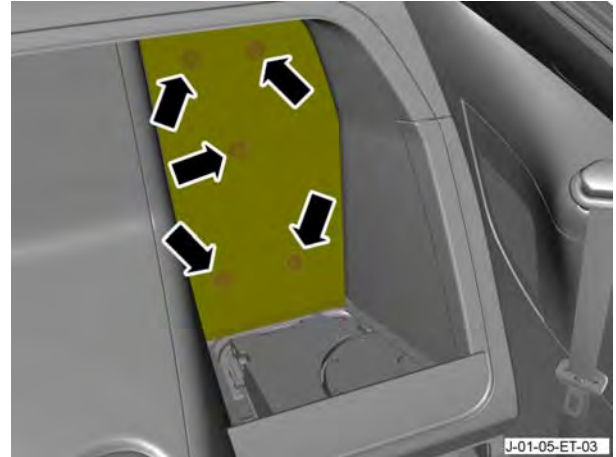
Published date: 2011-05-13 Procedure last changed: 2015-06-25 16:39:17

Small Normal Large**01.05.ES Cover Panel Assembly for the Left Side Bulkhead (Remove and Install New Part)**

-  WSM Data
-  Included Procedures
-  Is Used In

Removal

1. Remove the panel assembly for the left side bottom stowage compartment (01.05.EZ - Panel Assembly for the Left Side Bottom Stowage Compartment).
[\[Open Workshop Manual Procedure\]](#)
2. Release the cover panel assembly for the left side bulkhead from the five Velcro clips that attach it to the body.



3. Remove the cover panel assembly for the left side bulkhead.

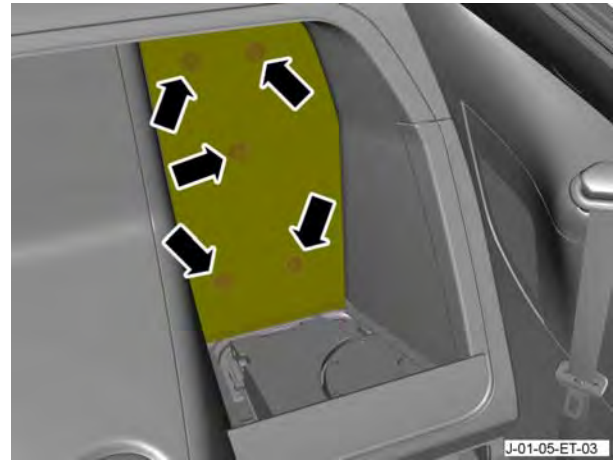


Install

1. Put the cover panel assembly for the left side bulkhead into position.






2. Install the cover panel assembly for the left side bulkhead to the five Velcro clips that attach it to the body.



3. Install the panel assembly for the left side bottom stowage compartment (01.05.EZ - Panel Assembly for the Left Side Bottom Stowage Compartment).
[\[Open Workshop Manual Procedure\]](#)

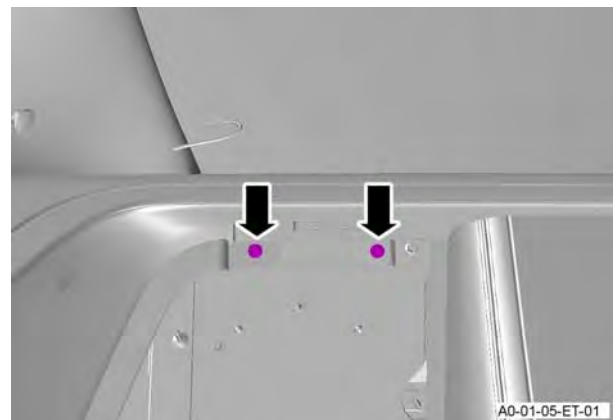
Published date: 2011-05-13 Procedure last changed: 2015-06-25 16:39:17

Small Normal Large**01.05.ET Panel Assembly for the Right Side Stowage Compartment (Remove and Install New Part)**

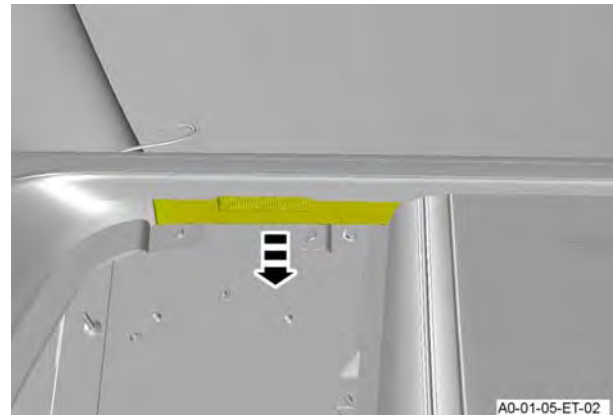
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

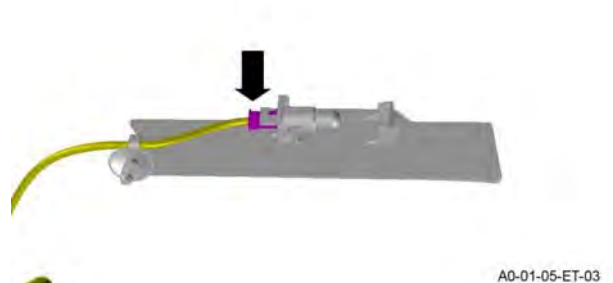
1. Remove the right side finisher for the rear cabin (01.05.FW - Right Side Finisher for the Rear Cabin).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the cover panel assembly for the right side bulkhead (01.05.ER - Cover Panel Assembly for the Right Side Bulkhead).
[\[Open Workshop Manual Procedure\]](#)
3. Remove the two screws that attach the trim panel for the right side stowage compartment light to the body.



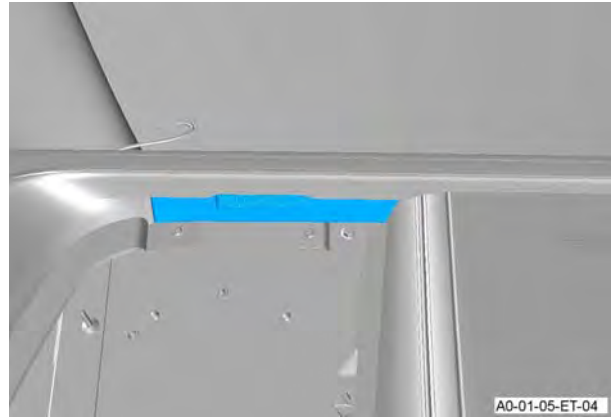
4. Move the trim panel for the right side stowage compartment light to get access to the electrical connector.



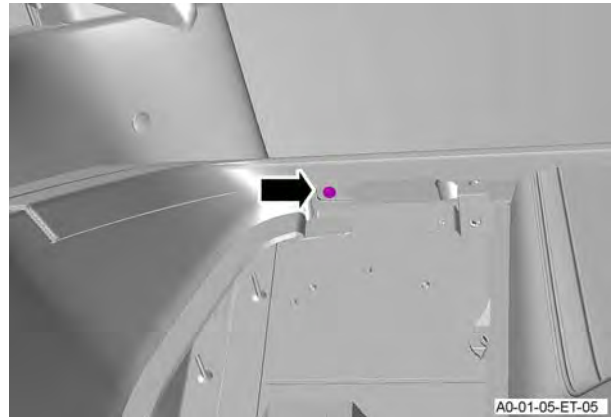
5. Disconnect the electrical connector from the right side stowage compartment light.



6. Remove the trim panel for the right side stowage compartment light.



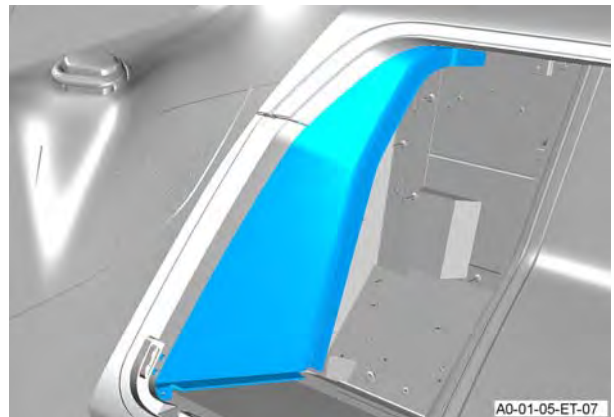
7. Remove the screw that attaches the panel assembly for the right side stowage compartment to the body.



8. Remove the two screws that attach the panel assembly for the right side stowage compartment to the body.

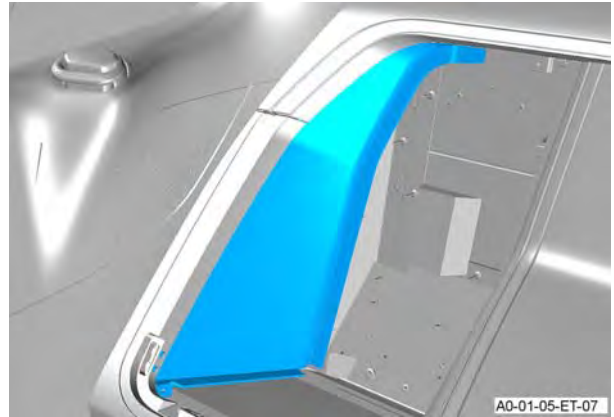


9. Remove the panel assembly for the right side stowage compartment.

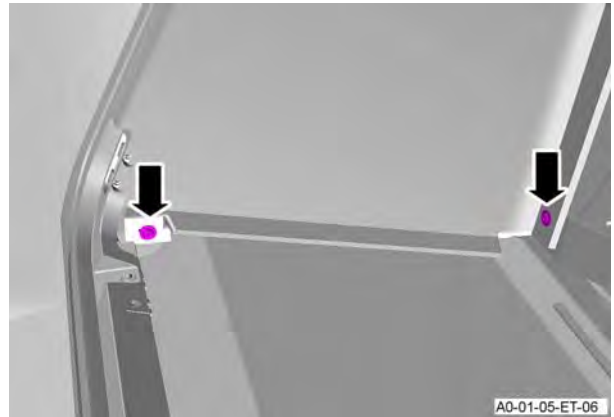


Install

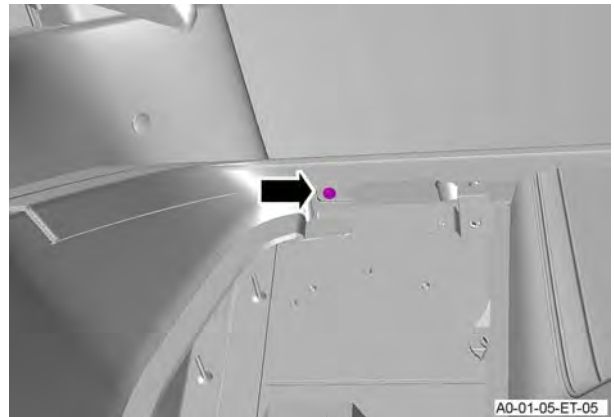
1. Install the panel assembly for the right side stowage compartment.



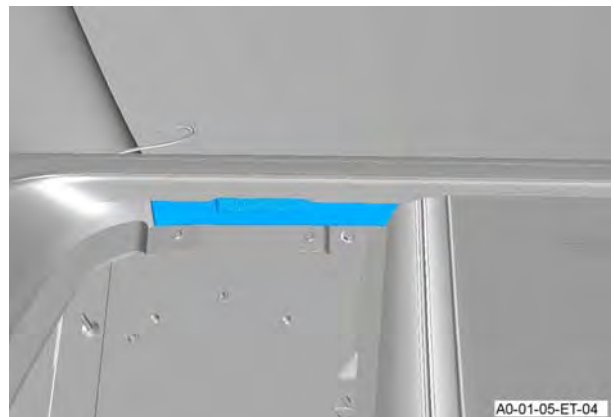
2. Install and tighten the two screws that attach the panel assembly for the right side stowage compartment to the body.



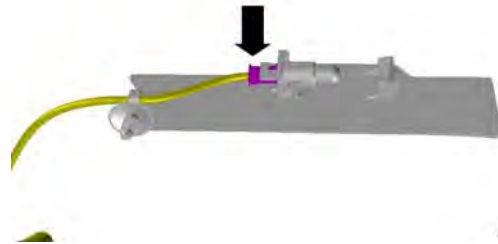
3. Install and tighten the screw that attaches the panel assembly for the right side stowage compartment to the body.



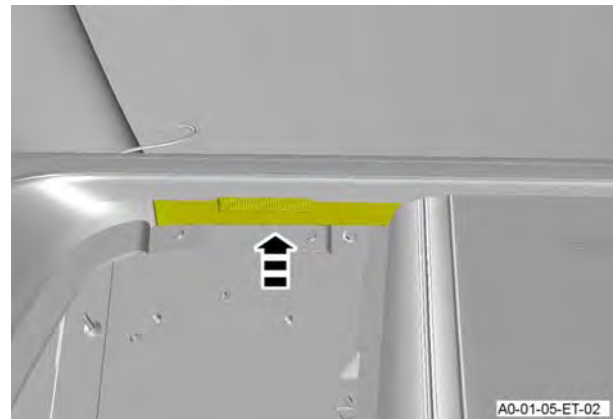
4. Put the trim panel for the right side stowage compartment light into position.



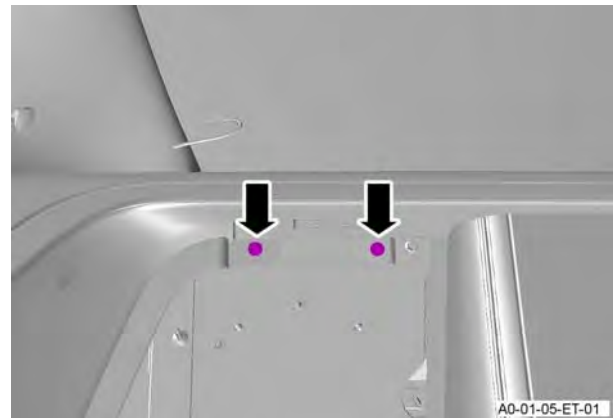
5. Connect the electrical connector to the right side stowage compartment light.



6. Move the trim panel for the right side stowage compartment light into the correct position.



7. Install and tighten the two screws that attach the trim panel for the right side stowage compartment light to the body.



8. Install the cover panel assembly for the right side bulkhead (01.05.ER - Cover Panel Assembly for the Right Side Bulkhead).




[\[Open Workshop Manual Procedure\]](#)

9. Install the cover panel assembly for the right side bulkhead (01.05.FW - Right Side Finisher for the Rear Cabin).

[\[Open Workshop Manual Procedure\]](#)

Published date: 2011-05-13 Procedure last changed: 2015-06-25 16:39:17

Small Normal Large**01.05.EU Outer Panel Assembly for the Left Side Bulkhead (Remove and Install New Part)**

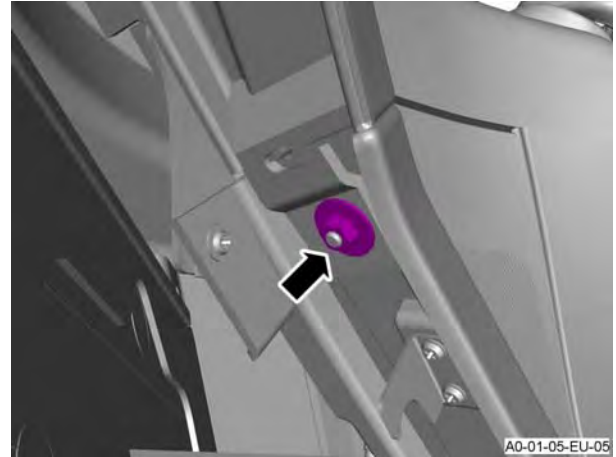
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

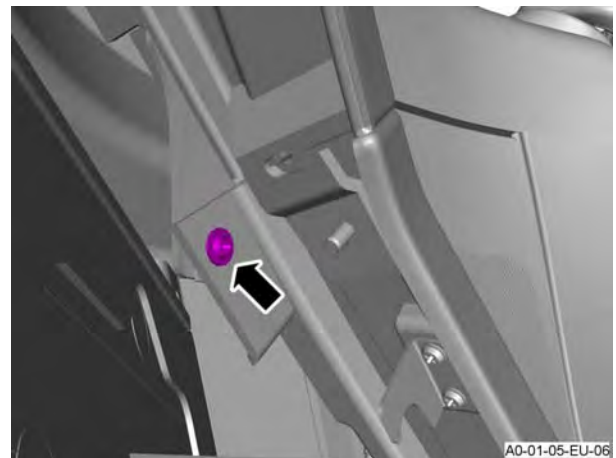
1. Remove the panel assembly for the left side stowage compartment (01.05.EW - Panel Assembly for the Left Side Stowage Compartment).

[\[Open Workshop Manual Procedure\]](#)

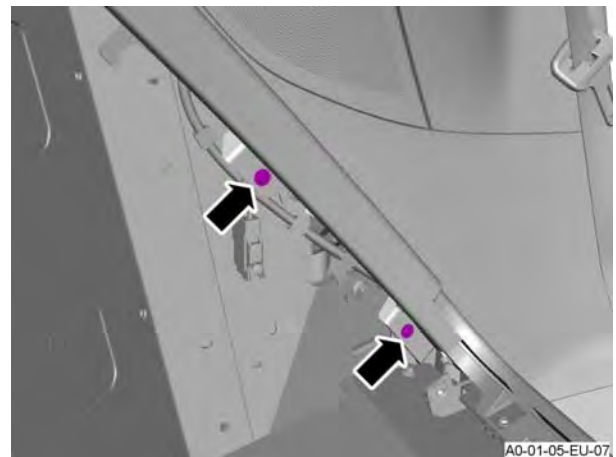
2. Remove the nut that attaches the outer panel assembly for the left side bulkhead to the package tray panel.



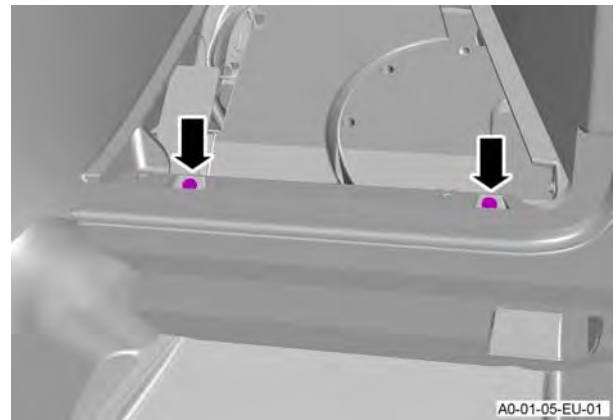
3. Remove the screw that attaches the outer panel assembly for the left side bulkhead to the left body side trim panel.



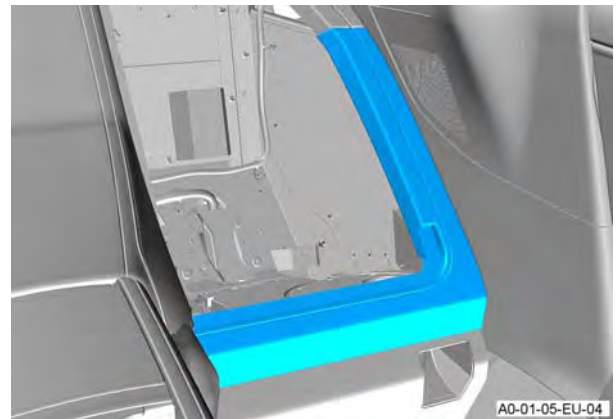
4. Remove the two screws that attach the outer panel assembly for the left side bulkhead to the left body side trim panel.



5. Remove the two screws that attach the outer panel assembly for the left side bulkhead to the body.

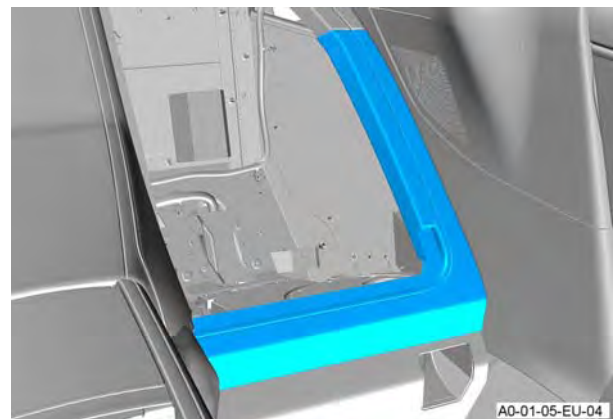


6. Remove the outer panel assembly for the left side bulkhead.

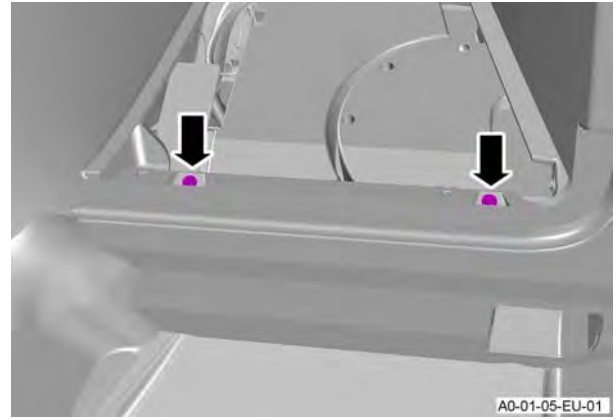


Install

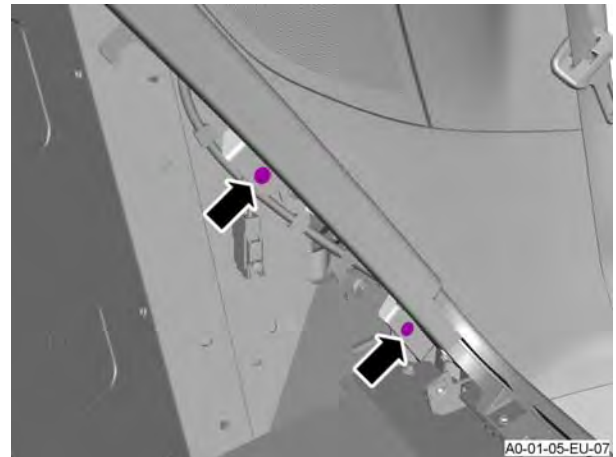
1. Remove the outer panel assembly for the left side bulkhead.



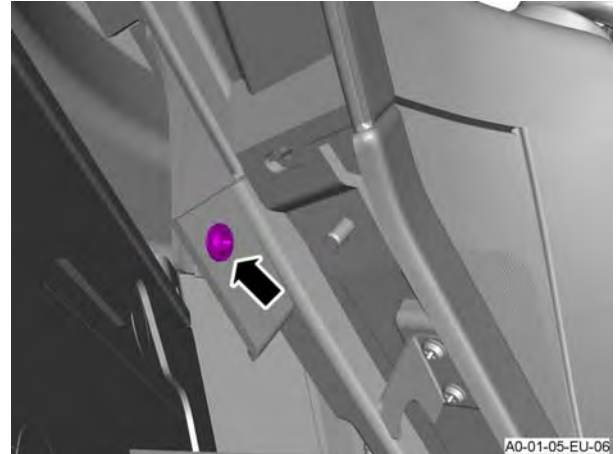
2. Install and tighten the two screws that attach the outer panel assembly for the left side bulkhead to the body.



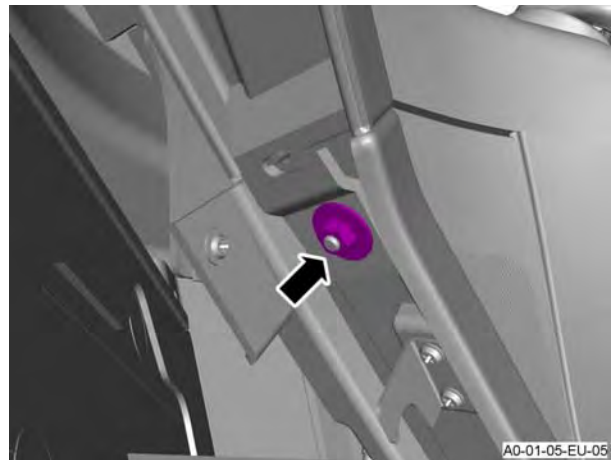
3. Install and tighten the two screws that attach the outer panel assembly for the left side bulkhead to the left body side trim panel.



4. Install and tighten the screw that attaches the outer panel assembly for the left side bulkhead to the left body side trim panel.



5. Install and tighten the nut that attaches the outer panel assembly for the left side bulkhead to the package tray panel.






6. Install the panel assembly for the left side stowage compartment (01.05.EW - Panel Assembly for the Left Side Stowage Compartment).

[\[Open Workshop Manual Procedure\]](#)

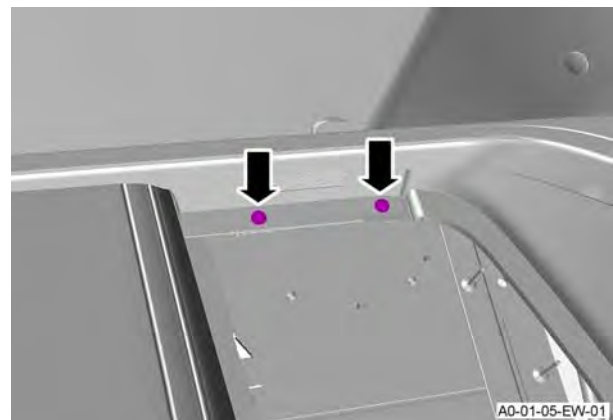
Published date: 2011-05-13 Procedure last changed: 2015-06-25 16:39:17

Small Normal Large**01.05.EW Panel Assembly for the Left Side Stowage Compartment (Remove and Install New Part)**

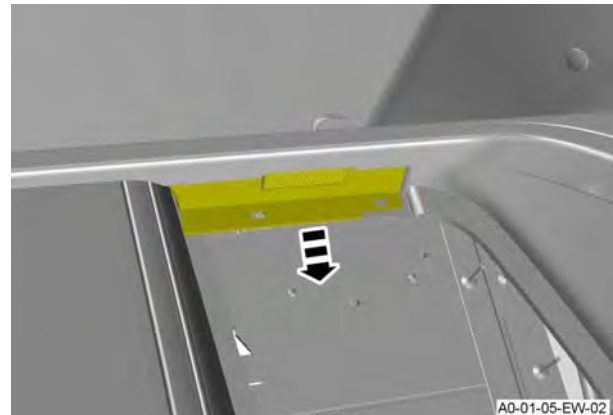
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

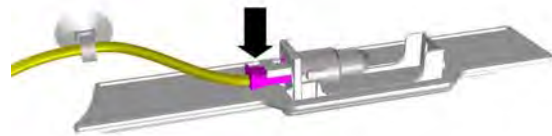
1. Remove the left side finisher for the rear cabin (01.05.FV - Left Side Finisher for the Rear Cabin).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the cover panel assembly for the left side bulkhead (01.05.ES - Cover Panel Assembly for the Left Side Bulkhead).
[\[Open Workshop Manual Procedure\]](#)
3. Remove the two screws that attach the trim panel for the left side stowage compartment light to the body.



4. Move the trim panel for the left side stowage compartment light to get access to the electrical connector.

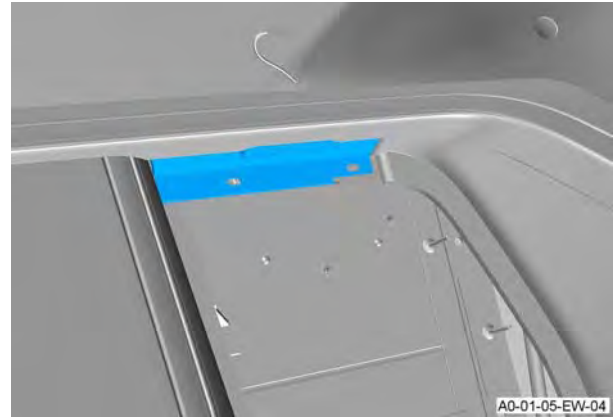


5. Disconnect the electrical connector from the left side stowage compartment light.

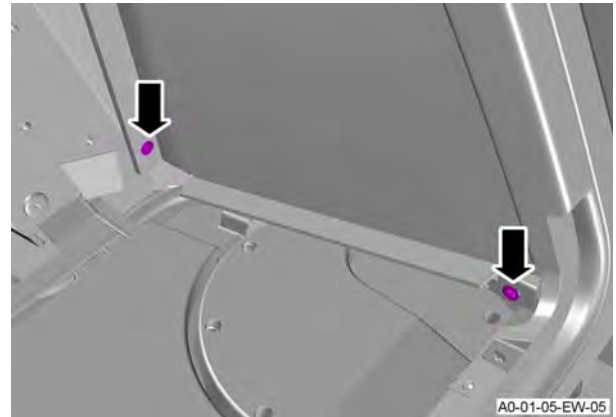


A0-01-05-EW-03

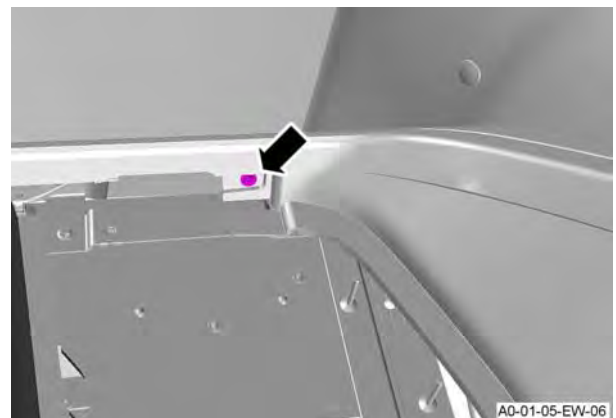
6. Remove the trim panel for the left side stowage compartment light.



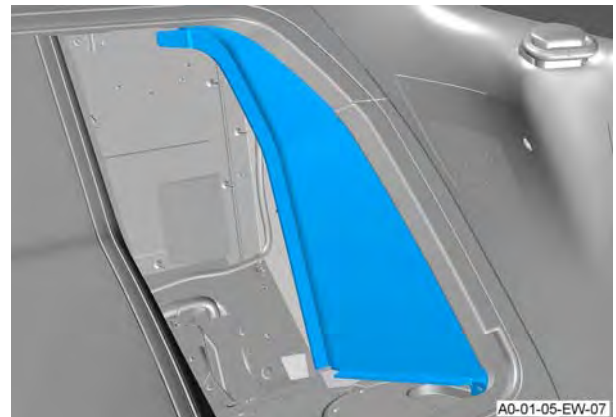
7. Remove the two screws that attach the panel assembly for the left side stowage compartment to the body.



8. Remove the screw that attaches the panel assembly for the left side stowage compartment to the body.

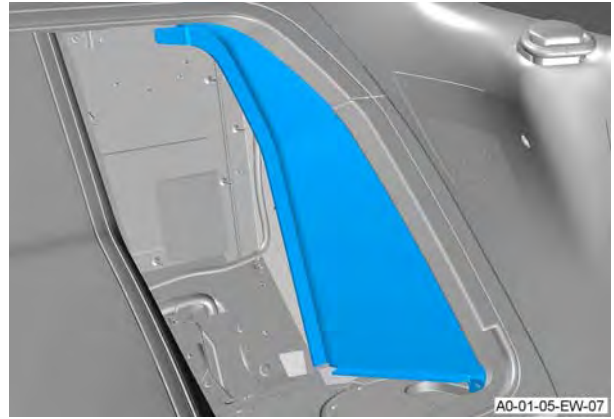


9. Remove the panel assembly for the left side stowage compartment.

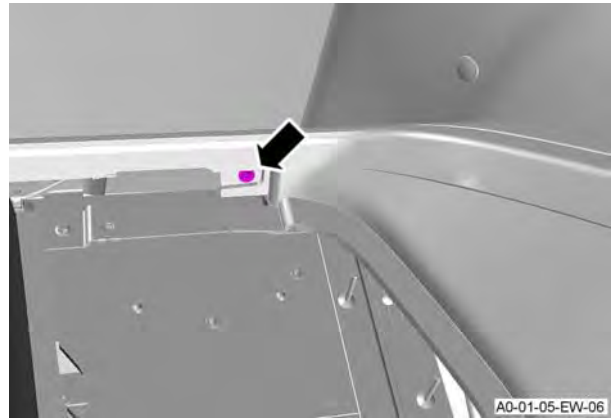


Install

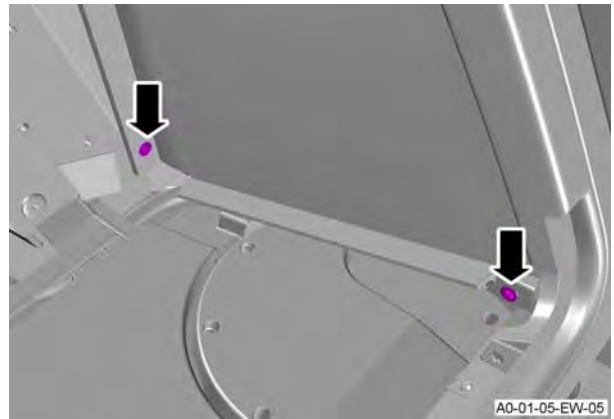
1. Install the panel assembly for the left side stowage compartment.



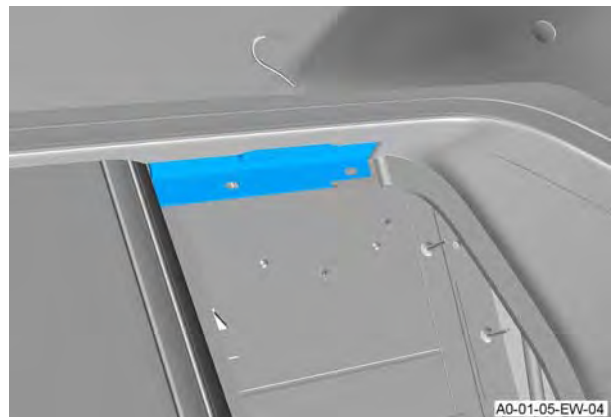
2. Install and tighten the screw that attaches the panel assembly for the left side stowage compartment to the body.



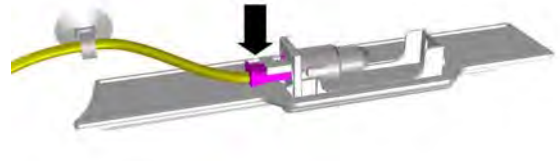
3. Install and tighten the two screws that attach the panel assembly for the left side stowage compartment to the body.



4. Put the trim panel for the left side stowage compartment light into position.

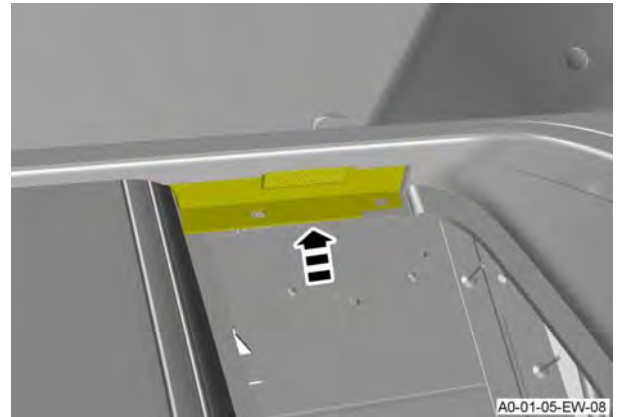


5. Connect the electrical connector to the left side stowage compartment light.



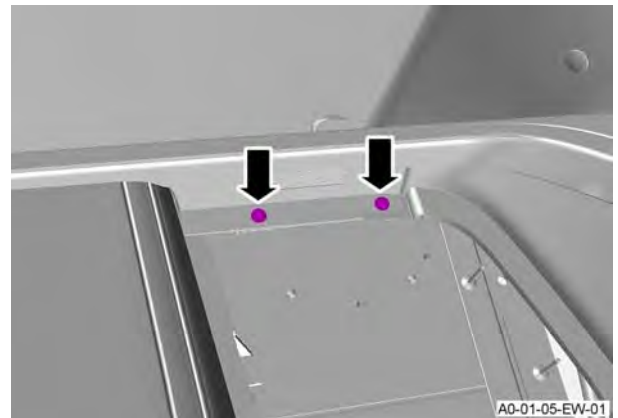
A0-01-05-EW-03

6. Move the trim panel for the left side stowage compartment light into the correct position.



A0-01-05-EW-08

7. Install and tighten the two screws that attach the trim panel for the left side stowage compartment light to the body.



A0-01-05-EW-01

8. Install the cover panel assembly for the left side bulkhead (01.05.ES - Cover Panel Assembly for the Left Side Bulkhead).




[\[Open Workshop Manual Procedure\]](#)

9. Install the left side finisher for the rear cabin (01.05.FV - Left Side Finisher for the Rear Cabin).


[\[Open Workshop Manual Procedure\]](#)

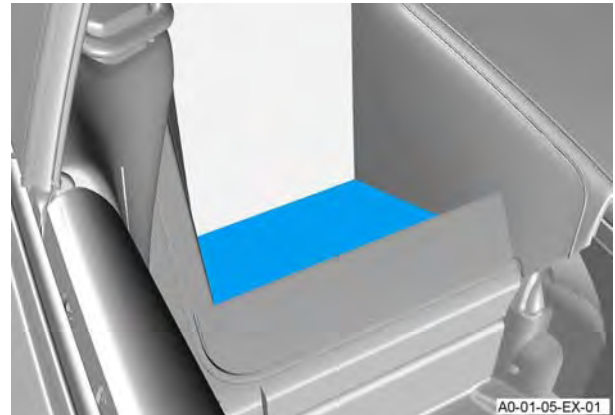
Published date: 2011-05-13 Procedure last changed: 2015-06-25 16:39:17


Small **Normal** **Large****01.05.EX Panel Assembly for the Right Side Bottom Stowage Compartment (Remove and Install New Part)**

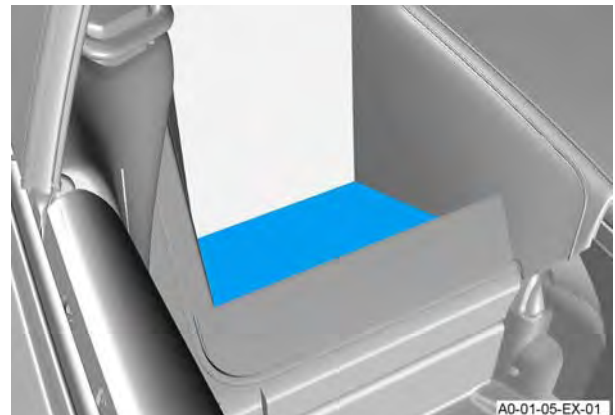
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

1.  *Note: The front seat is shown removed for visual aid.*
Remove the panel for the right side bottom stowage compartment.




*Install*

1.  *Note: The front seat is shown removed for visual aid.*
Install the panel for the right side bottom stowage compartment.




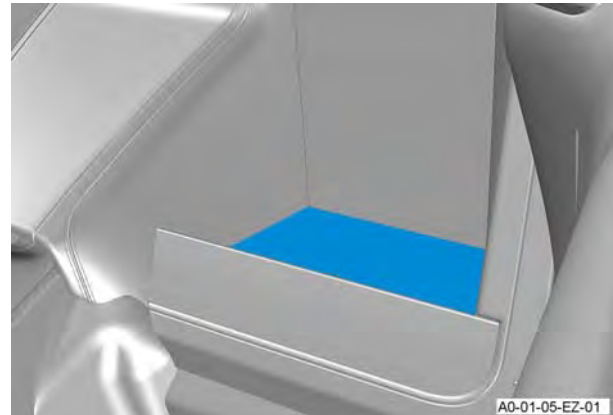
Published date: 2011-05-13 Procedure last changed: 2015-06-25 16:39:17


Small **Normal** **Large****01.05.EZ Panel Assembly for the Left Side Bottom Stowage Compartment (Remove and Install New Part)**

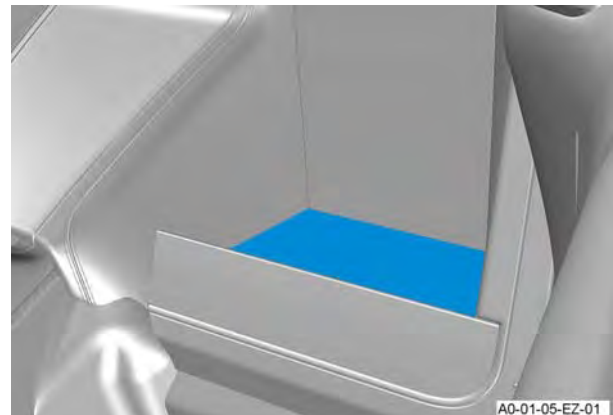
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

1.  *Note: The front seat is shown removed for visual aid.*
Remove the panel for the left side bottom stowage compartment.




*Install*

1.  *Note: The front seat is shown removed for visual aid.*
Install the panel for the left side bottom stowage compartment.



Published date: 2011-05-13 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.05.FJ Trim Panel for the Boot Lid (Remove and Install New Part)**

-  WSM Data
-  Included Procedures
-  Is Used In

Removal

1. Remove the right side corner carpet for the luggage compartment (01.05.GU - Right Side Corner Carpet for the Luggage Compartment).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the two Torx screws that attach the pull handle for the boot lid to the boot lid.



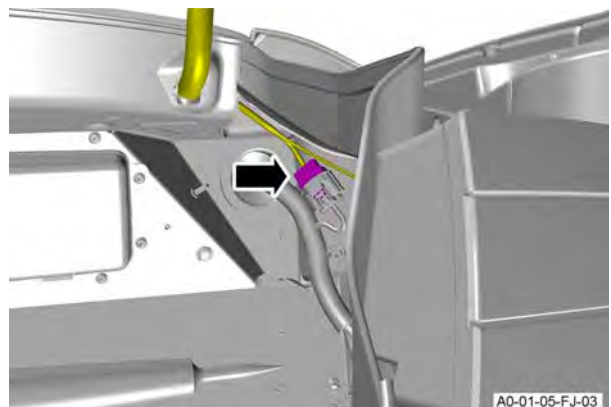
A0-01-05-FJ-01

3. Remove the pull handle for the boot lid.



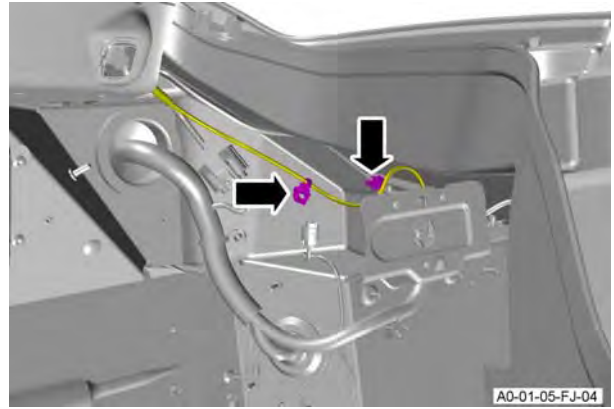
A0-01-05-FJ-02

4. Disconnect the electrical connector from the wiring harness for the body.

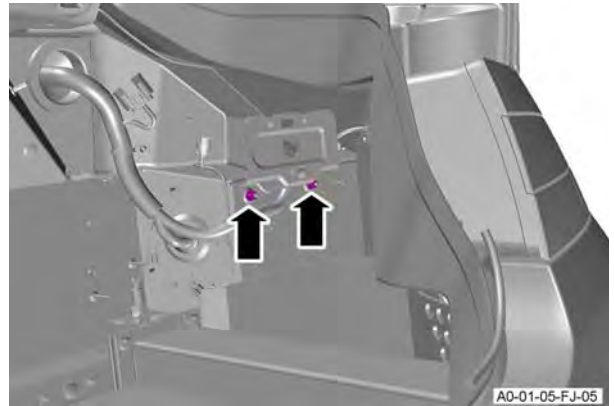


A0-01-05-FJ-03

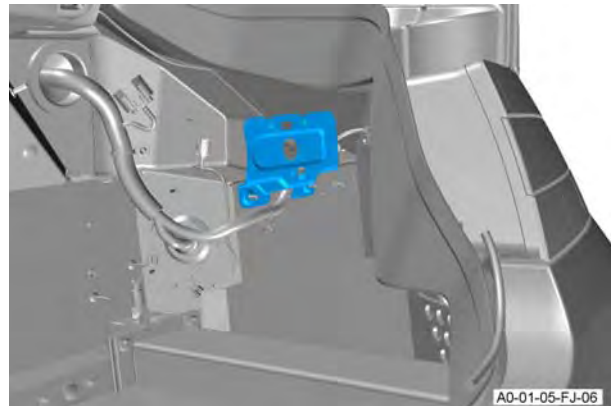
5. Release the wiring harness for the boot lid from the two clips that attach it to the body.




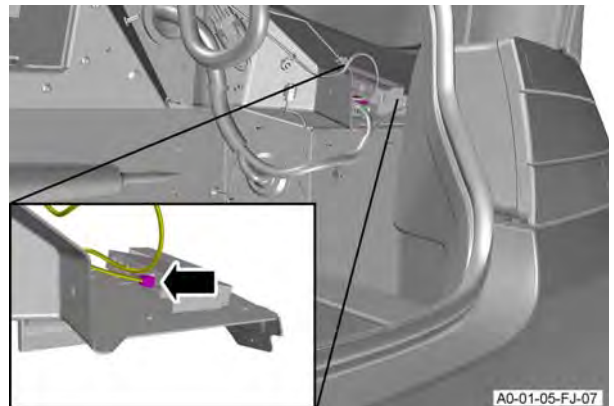
6. Remove the two nuts that attach the bracket for the auxiliary power point to the body.




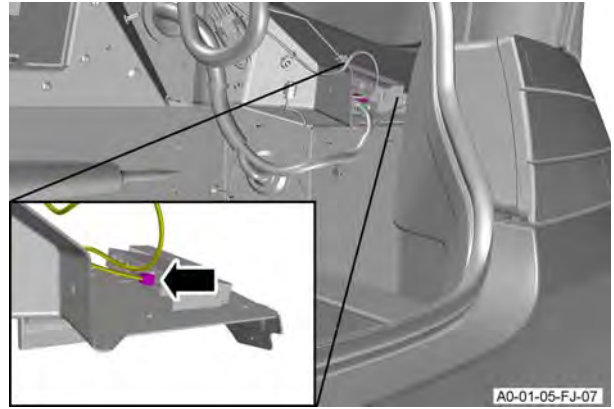
7. Remove the bracket for the auxiliary power point.



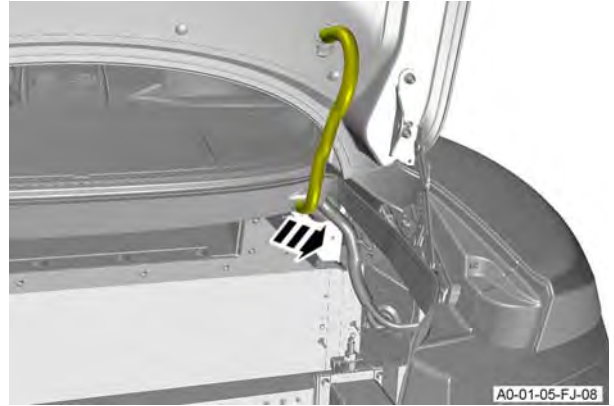
8.  *Note: The step that follows is for North American Specification (NAS) vehicles only.* Disconnect the electrical connector from the tuner for the Satellite Digital Audio Receiver System (SDARS).



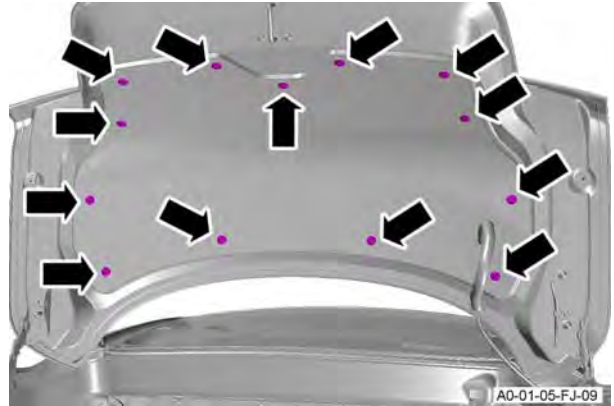
9.  *Note: The step that follows is for Rest of World (ROW) vehicles only.*
Disconnect the electrical connector from the Digital Audio Broadcasting (DAB) module.



10. Pull the wiring harness for the boot lid through the hole in the top trim panel for the luggage compartment.



11. Remove the 13 clips that attaches the trim panel for the boot lid to the boot lid.

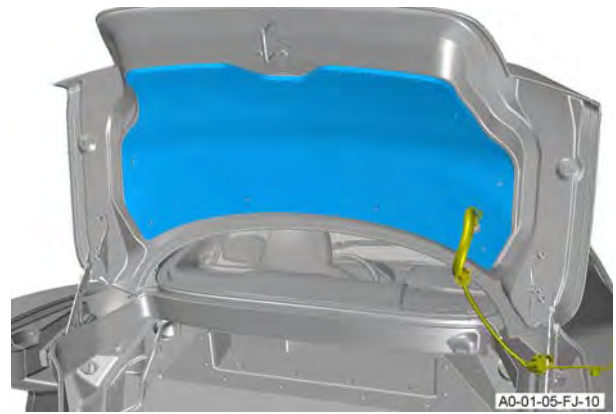


12. Pull the wiring harness for the boot lid through the hole in the trim panel for the boot lid. Remove the trim panel for the boot lid.

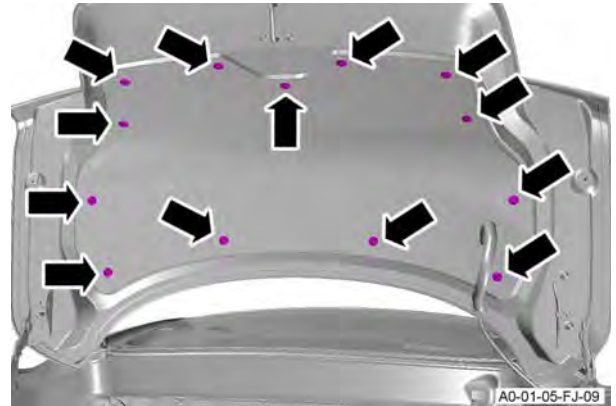


Install

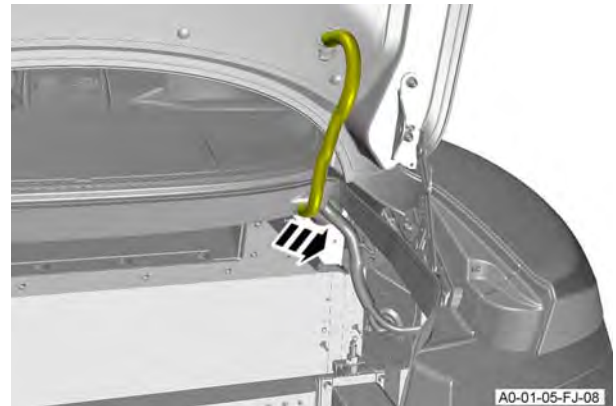
1. Put the trim panel for the boot lid into position. Put the wiring harness for the boot lid through the hole in the trim panel for the boot lid.



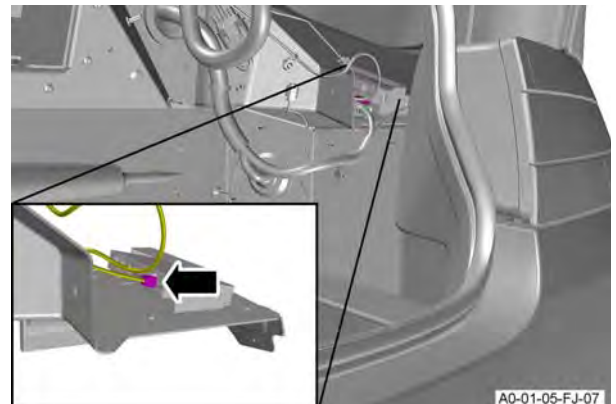
2. Install the 13 clips that attaches the trim panel for the boot lid to the boot lid.




3. Put the wiring harness for the boot lid through the hole in the top trim panel for the luggage compartment.

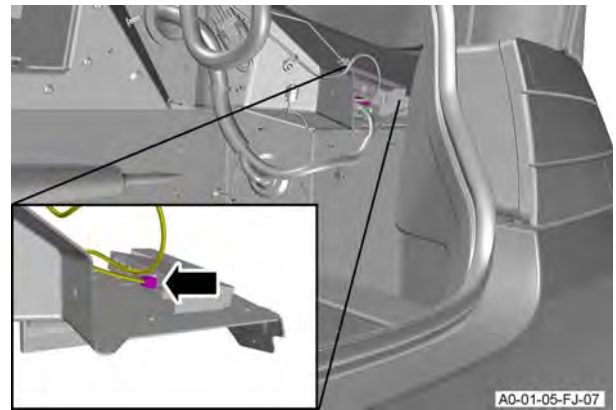


4. **i** *Note: The step that follows is for NAS vehicles only.*
Connect the electrical connector to the tuner for the SDARS.

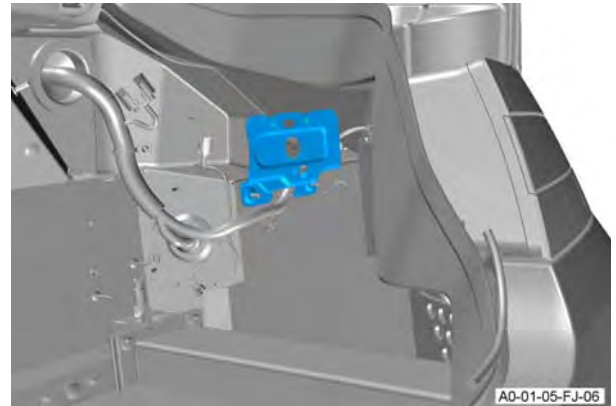


5.  *Note: The step that follows is for ROW vehicles only.*

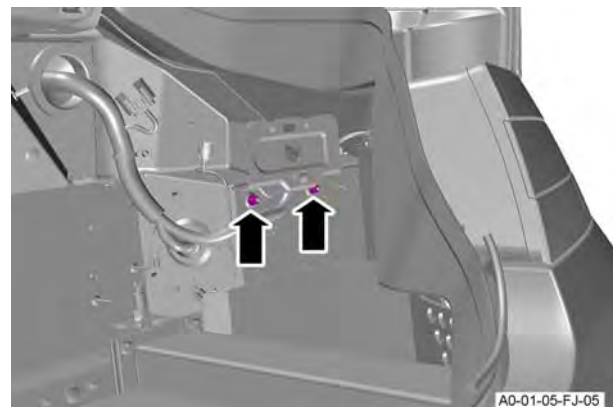
Connect the electrical connector to the DAB module.



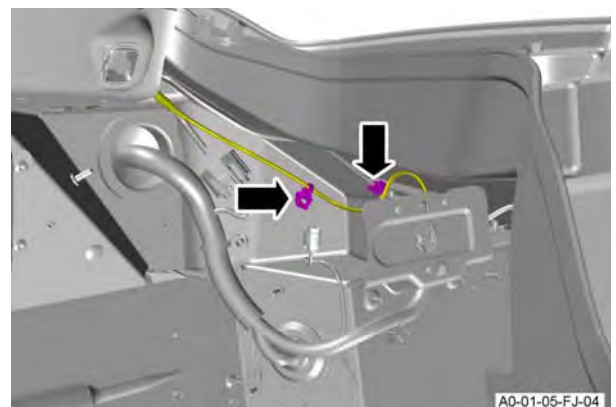
6. Install the bracket for the auxiliary power point.



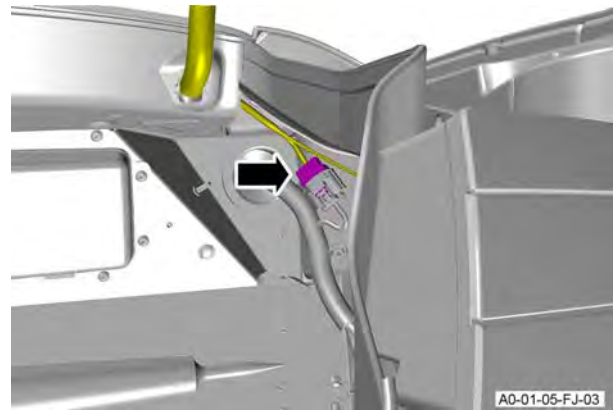
7. Install and torque the two nuts that attach the bracket for the auxiliary power point to the body to 5 Nm.



8. Install the wiring harness for the boot lid to the two clips that attach it to the body.



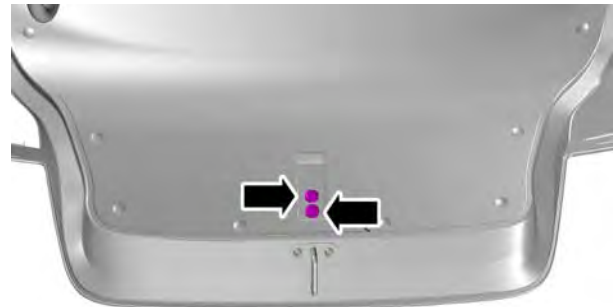
9. Connect the electrical connector to the wiring harness for the body.



10. Install the pull handle for the boot lid.



11. Install and tighten the two Torx screws that attach the pull handle for the boot lid to the boot lid.






12. Install the right side corner carpet for the luggage compartment (01.05.GU - Right Side Corner Carpet for the Luggage Compartment).

[\[Open Workshop Manual Procedure\]](#)

Published date: 2014-02-21 Procedure last changed: 2015-06-25 16:39:17

Small Normal Large**01.05.FW Right Side Finisher for the Rear Cabin (Remove and Install New Part)**

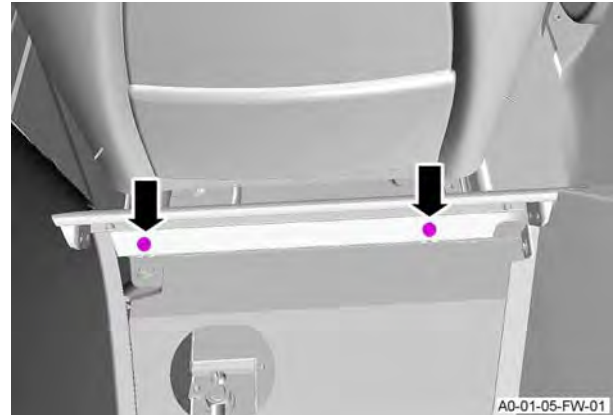
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

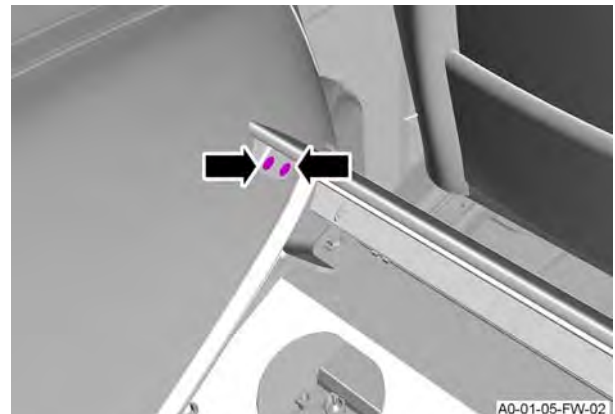
1. Remove the panel assembly for the right side bottom stowage compartment (01.05.EX - Panel Assembly for the Right Side Bottom Stowage Compartment).

[\[Open Workshop Manual Procedure\]](#)

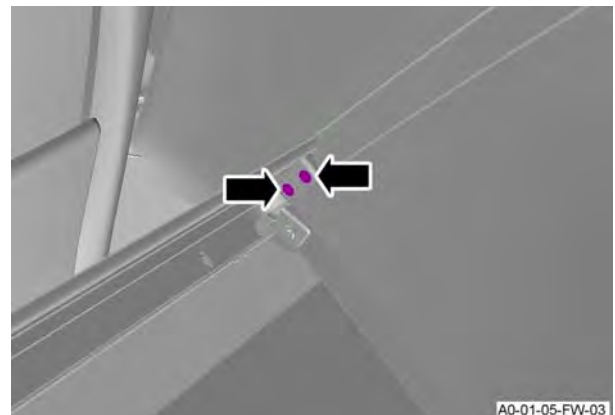
2. Remove the two screws that attach the right side finisher to the trim panel.




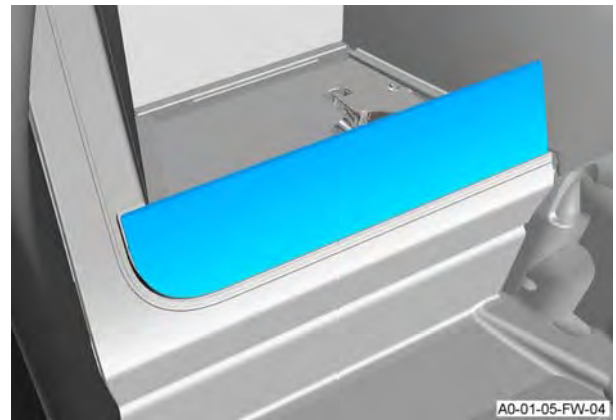
3. Remove the two screws that attach the right side finisher to the trim panel.




4. Remove the two screws that attach the right side finisher to the trim panel.

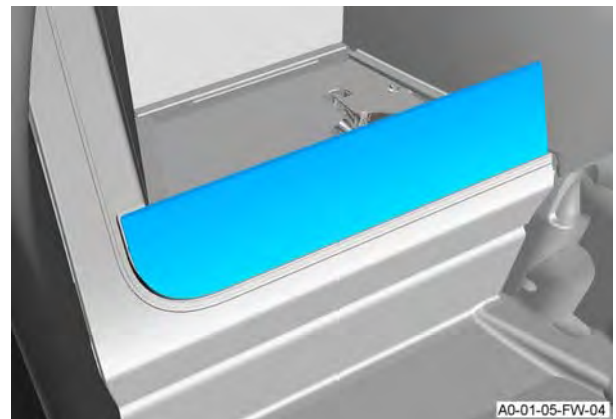


5.  *Note: The front seat is shown removed for visual aid.*
Remove the right side finisher.

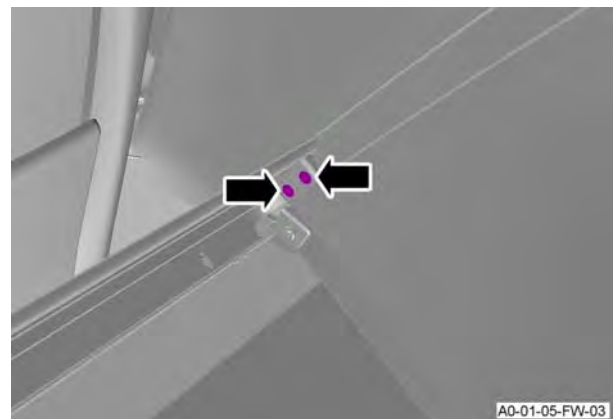


Install

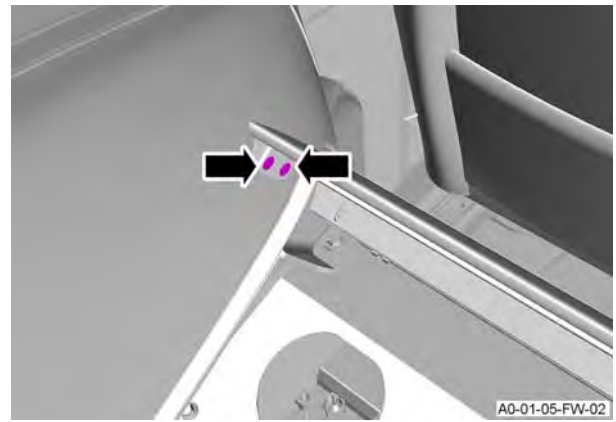
1.  *Note: The front seat is shown removed for visual aid.*
Install the right side finisher.



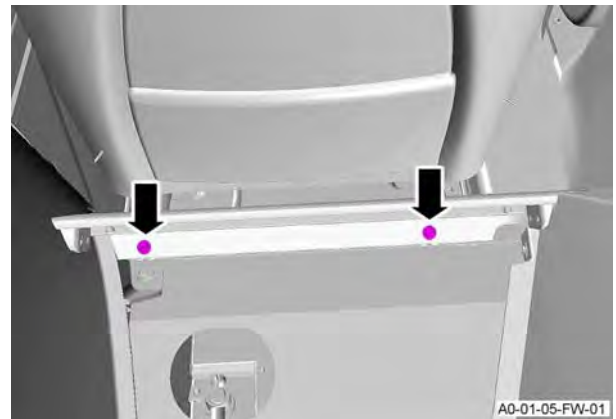
2. Install and tighten the two screws that attach the right side finisher to the trim panel.



3. Install and tighten the two screws that attach the right side finisher to the trim panel.






4. Install and tighten the two screws that attach the right side finisher to the trim panel.




5. Install the panel assembly for the right side bottom stowage compartment (01.05.EX - Panel Assembly for the Right Side Bottom Stowage Compartment).
[\[Open Workshop Manual Procedure\]](#)

Published date: 2011-05-13 Procedure last changed: 2015-06-25 16:39:17


Small **Normal** **Large****01.05.FZ Front Board for the Luggage Compartment (Remove and Install New Part)**

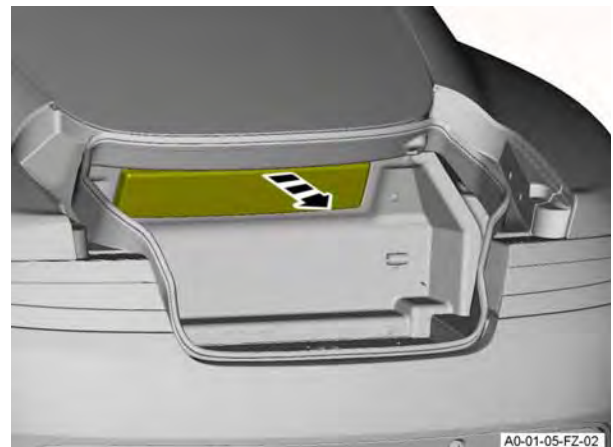
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

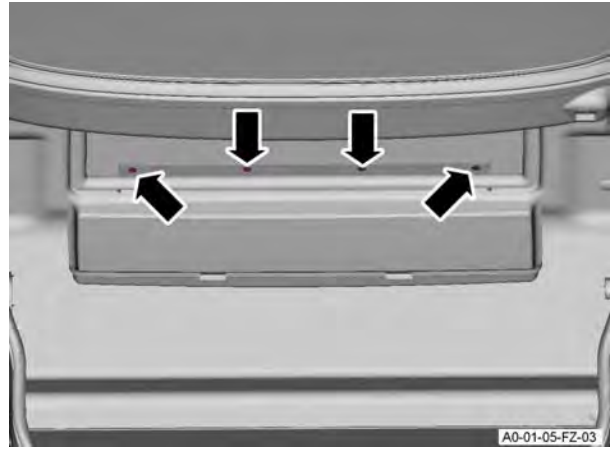
1. Remove the carpet for the load space (01.05.GT - Carpet for the Loadspace).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the left side rear carpet insert for the luggage compartment (01.05.GW - Left Side Rear Carpet Insert for the Luggage Compartment).
[\[Open Workshop Manual Procedure\]](#)
3.  *Note: The bootlid is shown removed for visual aid.*
Remove the umbrella.



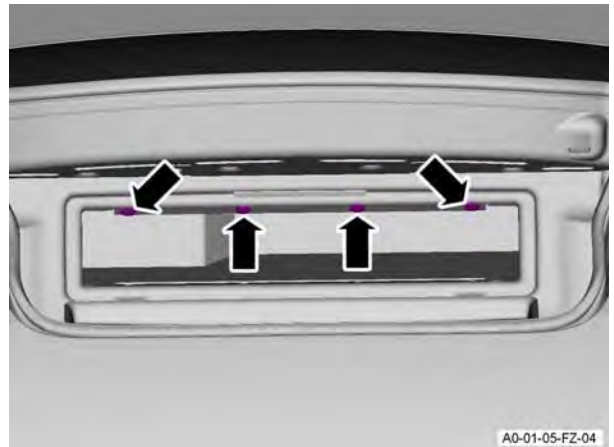
4.  *Note: The bootlid is shown removed for visual aid.*
Open the stowage compartment door.



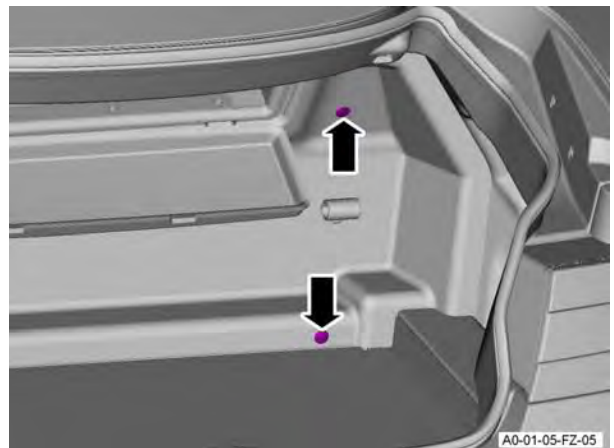
- 5. **i** *Note: The bootlid is shown removed for visual aid.*
Remove the four fir tree clips that attach the front board for the luggage compartment to the body.




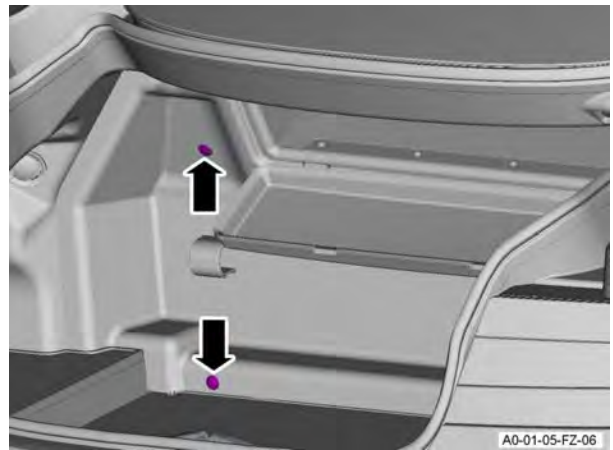
- 6. **i** *Note: The bootlid is shown removed for visual aid.*
Remove the four fir tree clips that attach the front board for the luggage compartment to the body.




- 7. **i** *Note: The bootlid is shown removed for visual aid.*
Remove the two fir tree clips that attach the front board for the luggage compartment to the body.




8.  *Note: The bootlid is shown removed for visual aid.*
Remove the two fir tree clips that attach the front board for the luggage compartment to the body.

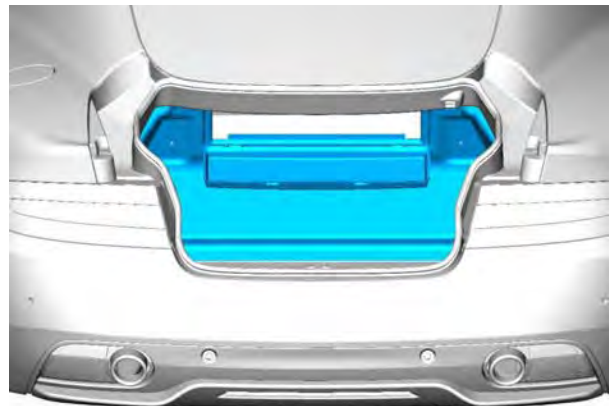


9.  *Note: The bootlid is shown removed for visual aid.*
Remove the front board.

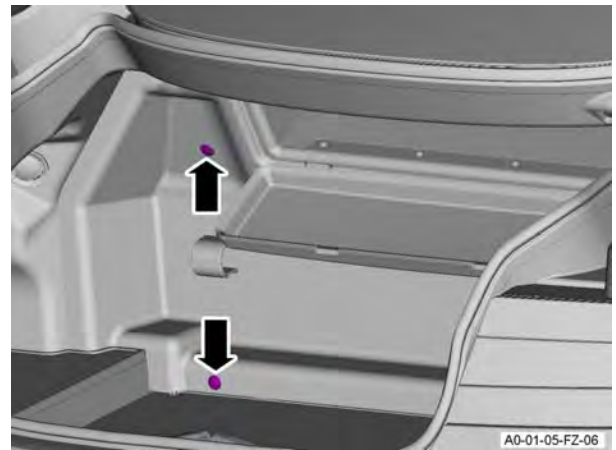


Install

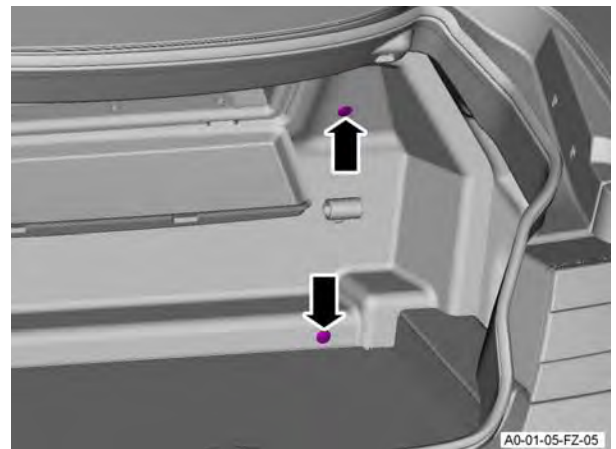
1.  *Note: The bootlid is shown removed for visual aid.*
Put the front board into position.



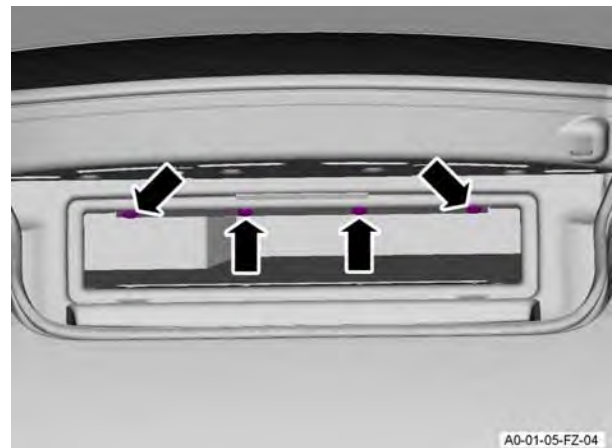
- 2. **i** *Note: The bootlid is shown removed for visual aid.*
Install the two fir tree clips that attach the front board for the luggage compartment to the body.




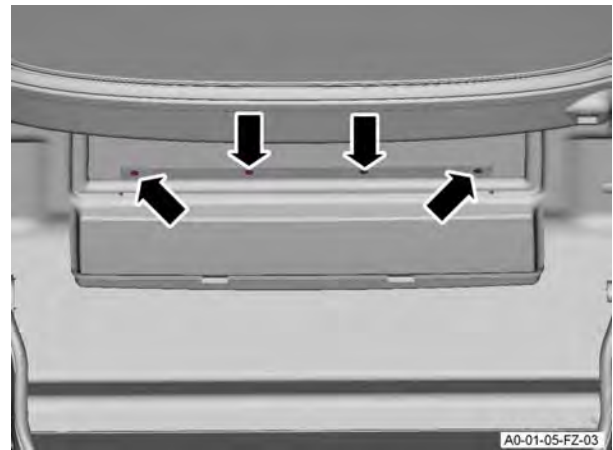
- 3. **i** *Note: The bootlid is shown removed for visual aid.*
Install the two fir tree clips that attach the front board for the luggage compartment to the body.




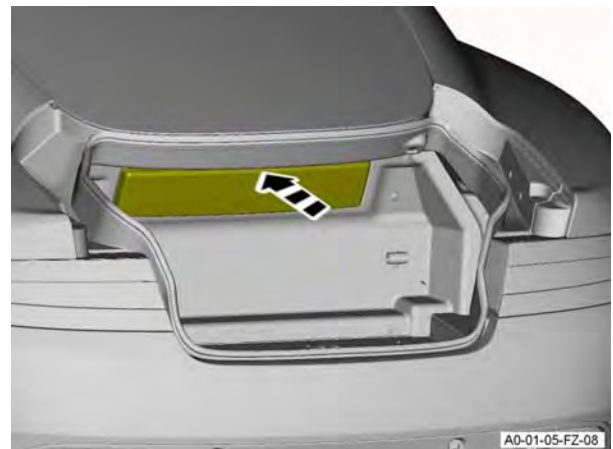
- 4. **i** *Note: The bootlid is shown removed for visual aid.*
Install the four fir tree clips that attach the front board for the luggage compartment to the body.




5.  *Note: The bootlid is shown removed for visual aid.*
Remove the four fir tree clips that attach the front board for the luggage compartment to the body.



6.  *Note: The bootlid is shown removed for visual aid.*
Close the stowage compartment door.



7.  *Note: The bootlid is shown removed for visual aid.*
Install the umbrella.






8. SROs for carpet trims need to go here!
9. Install the left side rear carpet insert for the luggage compartment (01.05.GW - Left Side Rear Carpet Insert for the Luggage Compartment).
[\[Open Workshop Manual Procedure\]](#)
10. Install the carpet for the load space (01.05.GT - Carpet for the Loadspace).
[\[Open Workshop Manual Procedure\]](#)

Published date: 2011-05-03 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large**

01.05.GA Scuff Plate for the Luggage Compartment (Remove and Install New Part)

-  WSM Data
-  Included Procedures
-  Is Used In

Removal

1. Remove the four screws that attach the scuff plate for the luggage compartment to the body.



G-01-05-GA-01

2. Loosen the two screws that attach the scuff plate for the luggage compartment to the body.



G-01-05-GA-02

3. Remove the scuff plate for the luggage compartment.



G-01-05-GA-03

Install

1. Install the scuff plate for the luggage compartment.



G-01-05-GA-03

2. Tighten the two screws that attach the scuff plate for the luggage compartment to the body.



G-01-05-GA-02




3. Install and torque the four screws that attach the scuff plate for the luggage compartment to the body to 5 Nm.



G-01-05-GA-01

Published date: 2011-04-19 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.05.GT Carpet for the Loadspace (Remove and Install New Part)**

-  WSM Data
-  Included Procedures
-  Is Used In

Removal

1. Remove the carpet for the loadspace.






Install

1. Put the carpet for the loadspace into position.



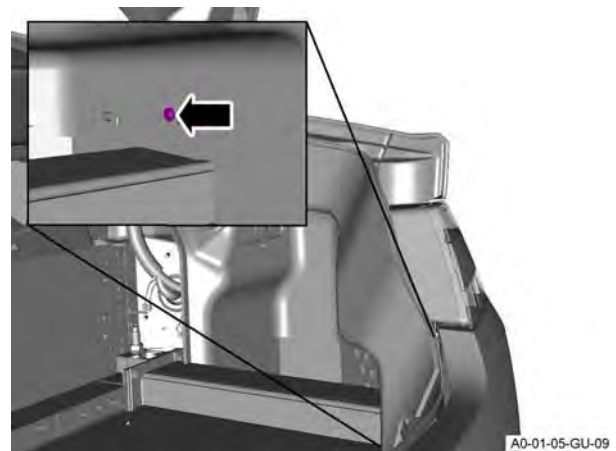
Published date: 2012-11-26 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.05.GU Right Side Corner Carpet for the Luggage Compartment (Remove and Install New Part)**

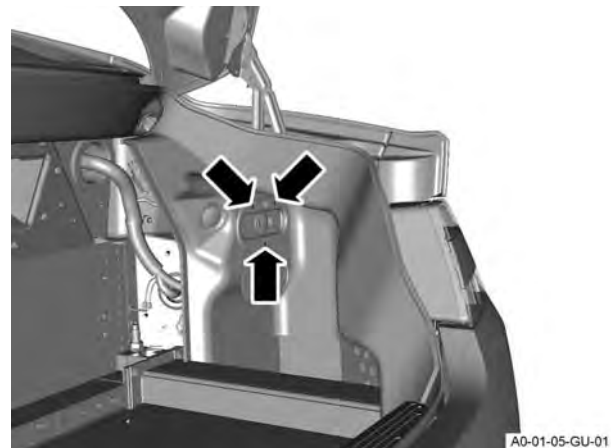
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

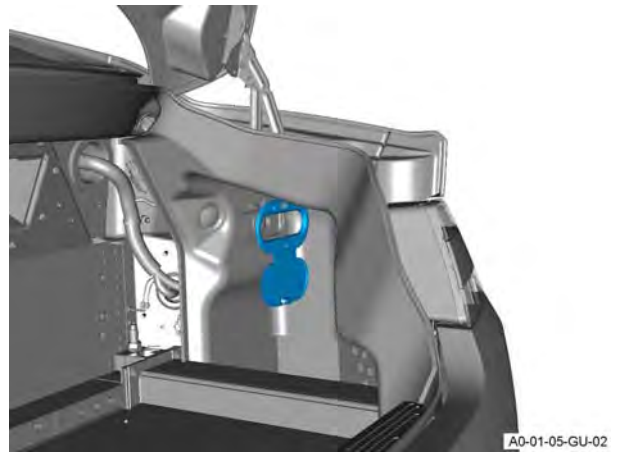
1. Remove the front board for the luggage compartment (01.05.FZ - Front Board for the Luggage Compartment).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the scuff plate for the luggage compartment (01.05.GA - Scuff Plate for the Luggage Compartment).
[\[Open Workshop Manual Procedure\]](#)
3. Remove the handle for the emergency boot release (01.14.DD - Handle - Emergency Release Trunk).
[\[Open Workshop Manual Procedure\]](#)
4. Remove the screw that attaches the right side corner carpet to the emergency release cable release cable.



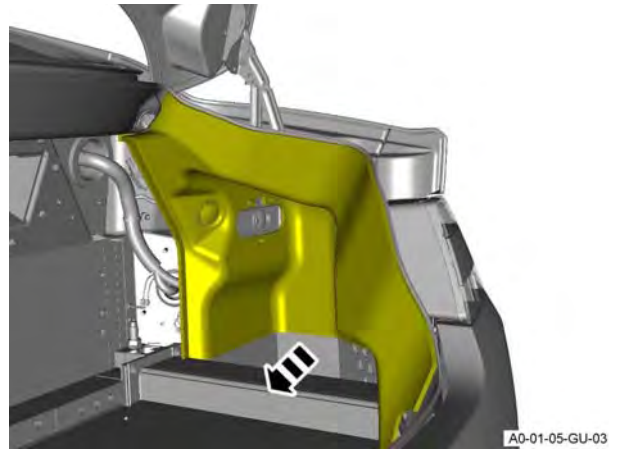
5. Remove the three screws that attach the cover for the power outlet to the body.



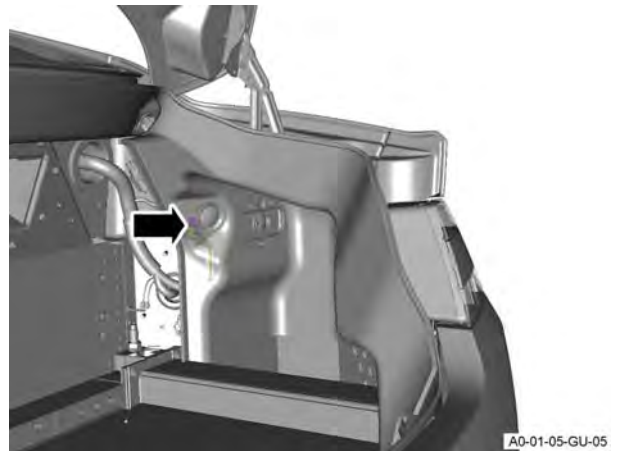
- 6. Remove the cover for the power outlet.



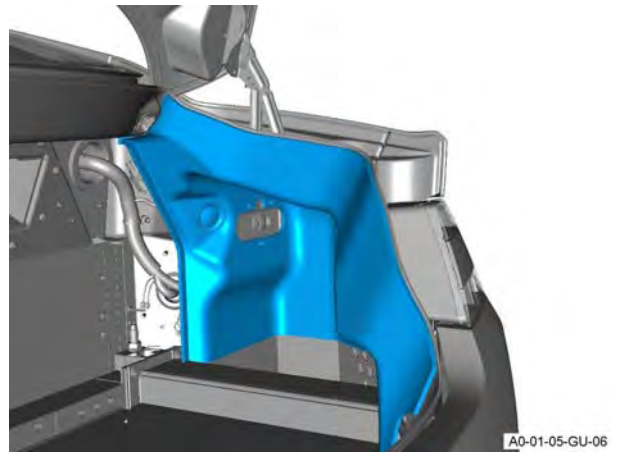
- 7. Move the right side corner carpet to get access to the electrical connector for the right side courtesy lamp.




- 8. Disconnect the electrical connector from the right side courtesy lamp.



9. Remove the right side corner carpet for the luggage compartment.



10.  *Note: If the right side corner carpet is removed for access only, do not do the steps that follow.*

Release the two clips that attach the right side courtesy lamp to the right side corner carpet.



11. Remove the right side courtesy lamp.



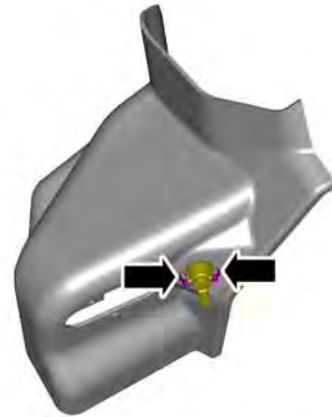
Install

1. Put the right side courtesy lamp into position.



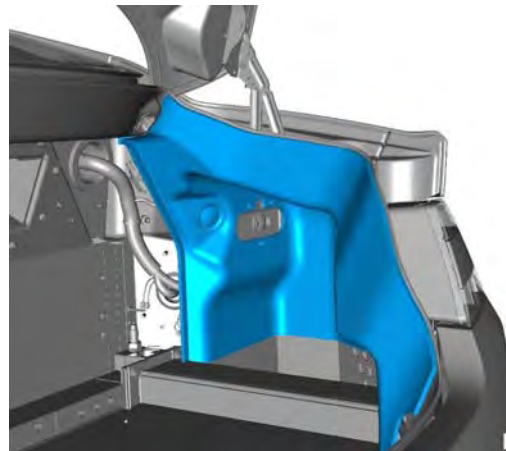
A0-01-05-GU-08

2. Install the two clips that attach the right side courtesy lamp to the right side corner carpet.



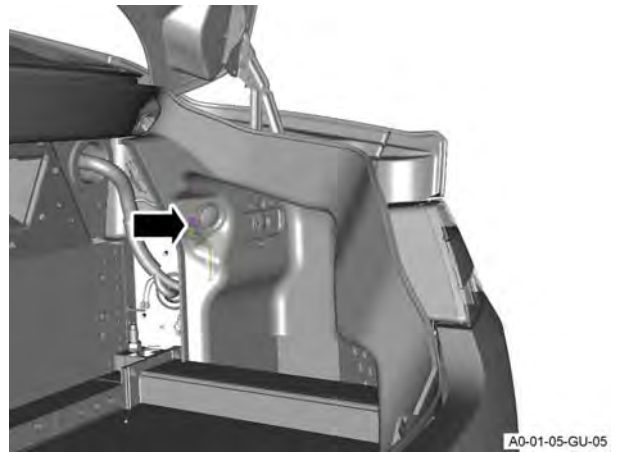
A0-01-05-GU-07

3. Put the right side corner carpet for the luggage compartment into position.

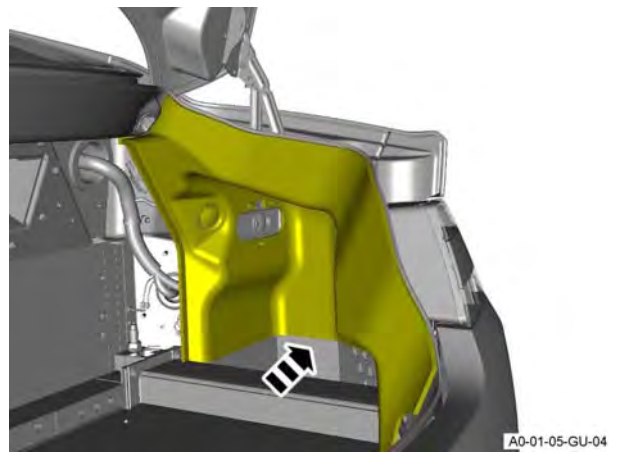


A0-01-05-GU-06

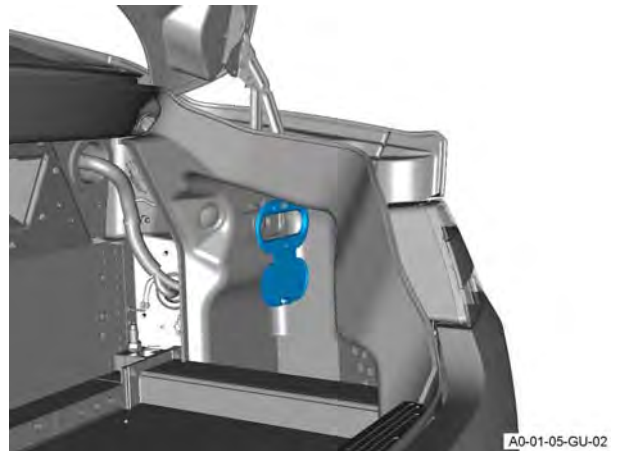
4. Connect the electrical connector to the right side courtesy lamp.



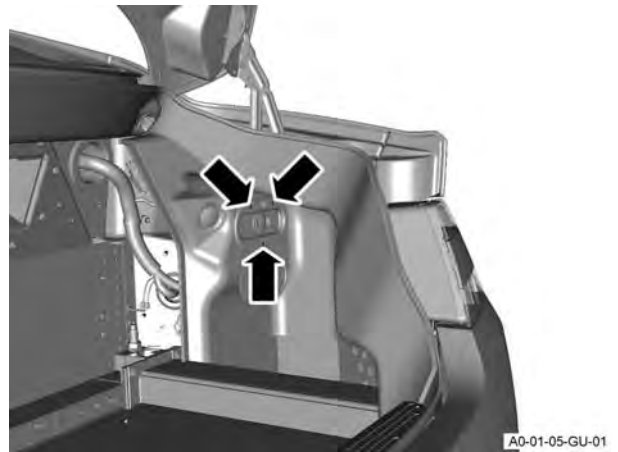
5. Move the right side corner carpet into the correct position.



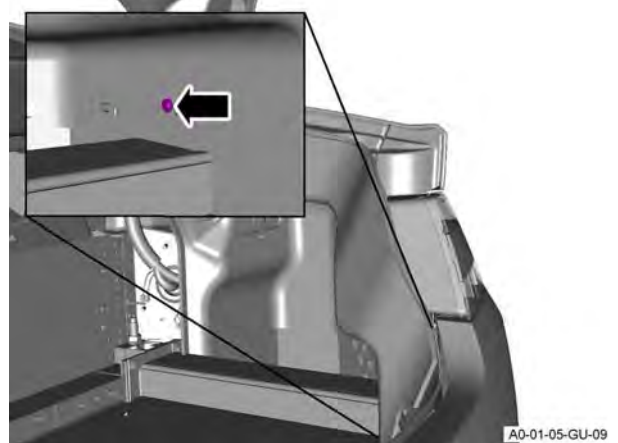
6. Put the cover for the power outlet into position.



7. Install and tighten the three screws that attach the cover for the power outlet to the body.






8. Install and tighten the screw that attaches the right side corner carpet to the emergency release cable.



9. Install the handle for the emergency boot release (01.14.DD - Handle - Emergency Release Trunk).
[\[Open Workshop Manual Procedure\]](#)
10. Install the scuff plate for the luggage compartment (01.05.GA - Scuff Plate for the Luggage Compartment).
[\[Open Workshop Manual Procedure\]](#)
11. Remove the front board for the luggage compartment (01.05.FZ - Front Board for the Luggage Compartment).
[\[Open Workshop Manual Procedure\]](#)

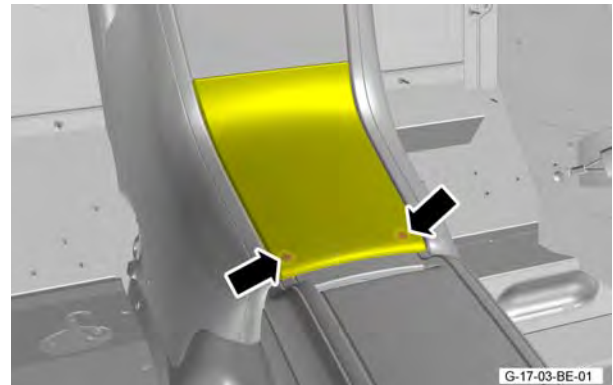
Published date: 2012-11-28 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.05.HT Centre Trim Panel for the Package Tray (Remove and Install New Part)**

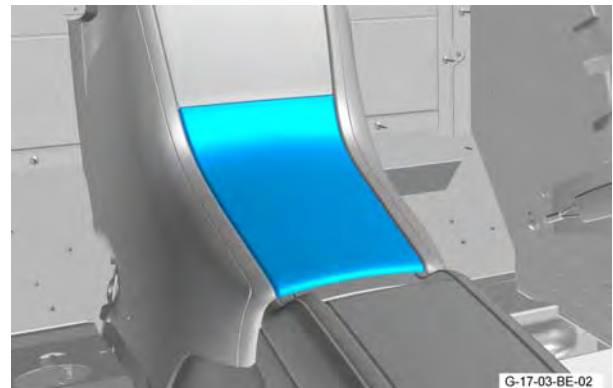
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

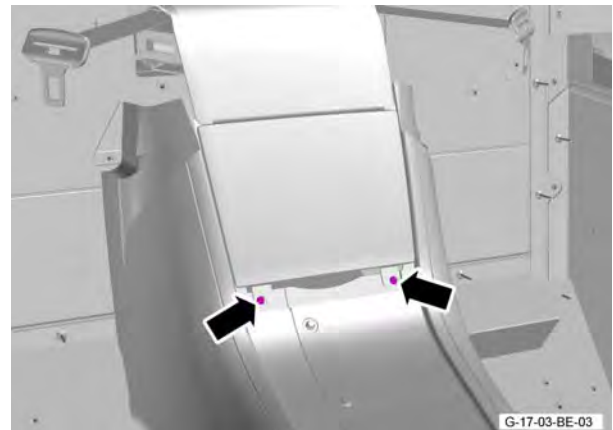
1. Remove the right side rear seat back (01.10.BE - Right Side Rear Seat Back).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the left side rear seat back (01.10.BF - Left Side Rear Seat Back).
[\[Open Workshop Manual Procedure\]](#)
3. Release the two fir tree clips that attach the bottom trim panel for the rear console to the rear console.



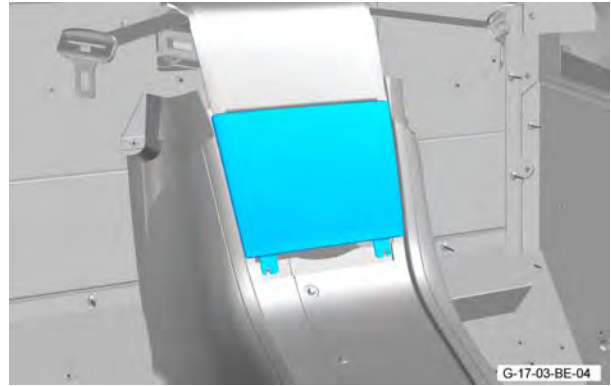
4. Remove the bottom trim panel for the rear console.



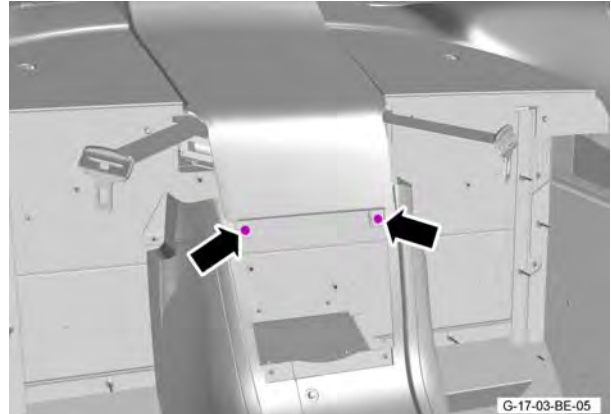
5. Remove the two screws that attach the top trim panel for the rear console to the rear console.



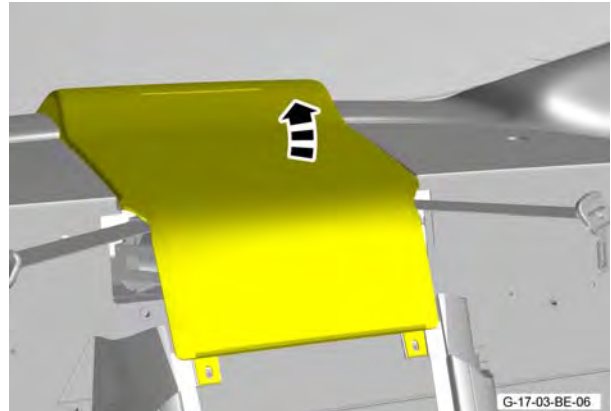
6. Remove the top trim panel for the rear console.



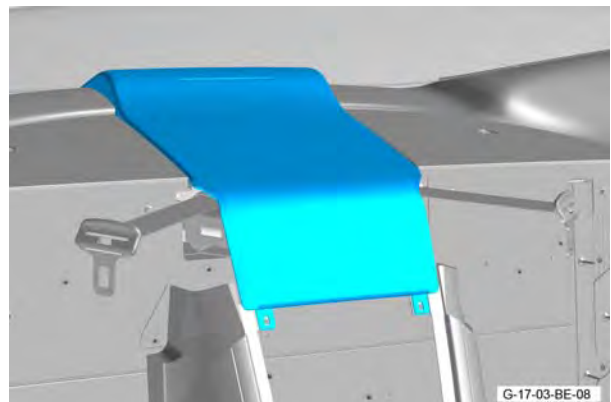
7. Remove the two screws that attach the centre panel for the package tray to the body.



8. Move the centre panel for the package tray away from the package tray.

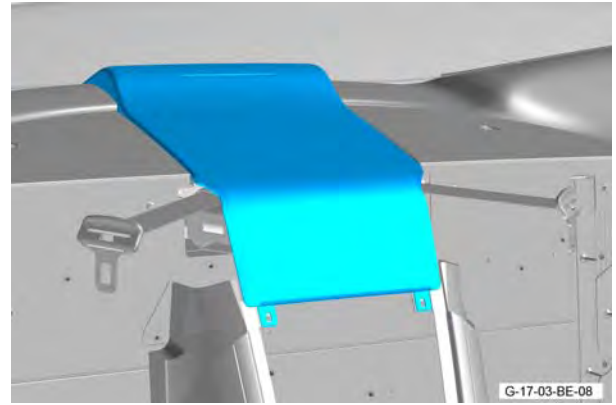


9. Remove the centre panel for the package tray.

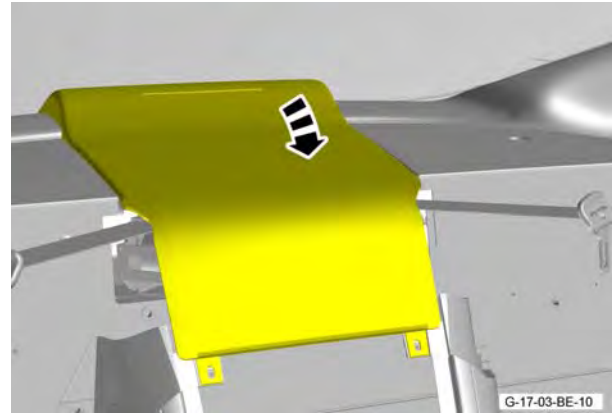


Install

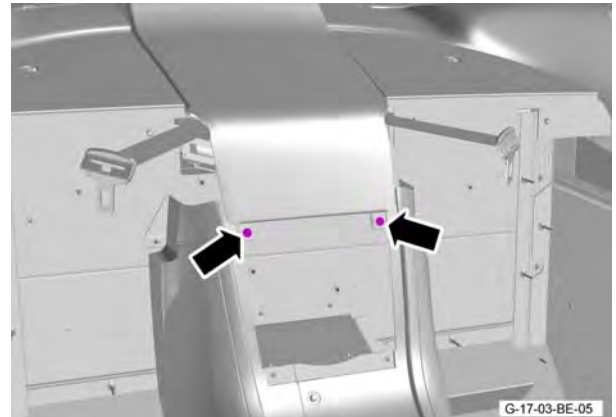
1. Put the centre panel for the package tray into position.



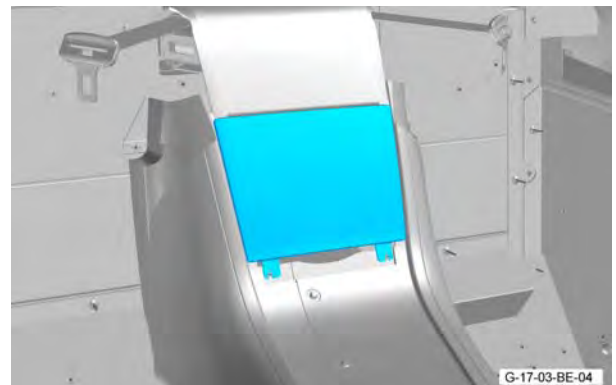
2. Move the centre panel for the package tray into the correct position



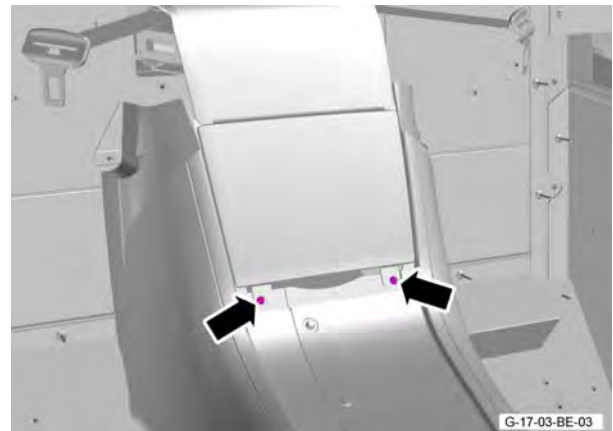
3. Install and tighten the two screws that attach the centre panel for the package tray to the body.



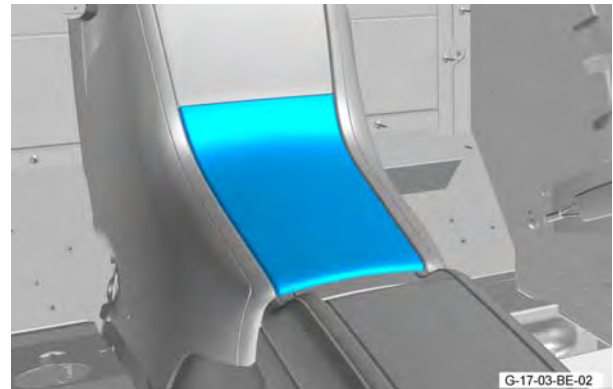
4. Install the top trim panel for the rear console.



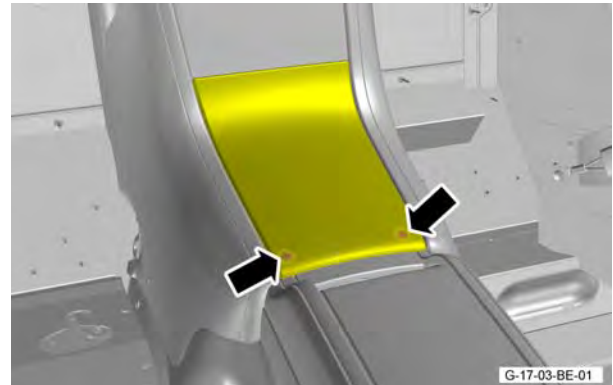
5. Install and tighten the two screws that attach the top trim panel for the rear console to the rear console.



6. Install the bottom trim panel for the rear console.






7. Install the two fir tree clips that attach the bottom trim panel for the rear console to the rear console.



8. Install the left side rear seat back (01.10.BF - Left Side Rear Seat Back).
[\[Open Workshop Manual Procedure\]](#)
9. Install the right side rear seat back (01.10.BE - Right Side Rear Seat Back).
[\[Open Workshop Manual Procedure\]](#)

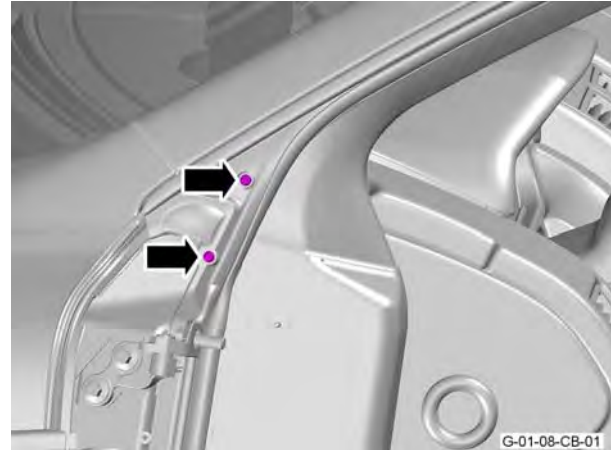
Published date: 2013-01-17 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.08.CB Roof Finisher for the Left Side Glass (Remove and Install New Part)**

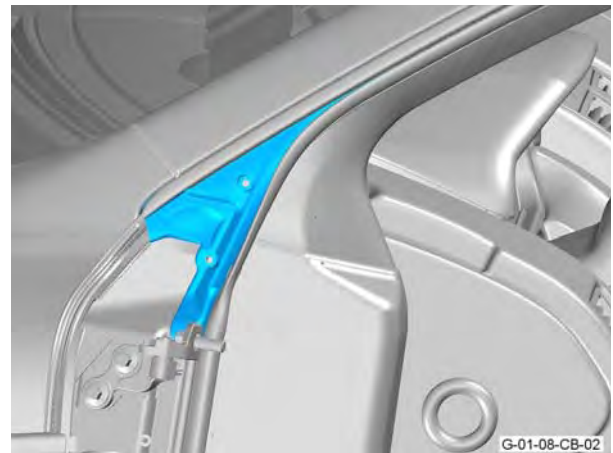
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

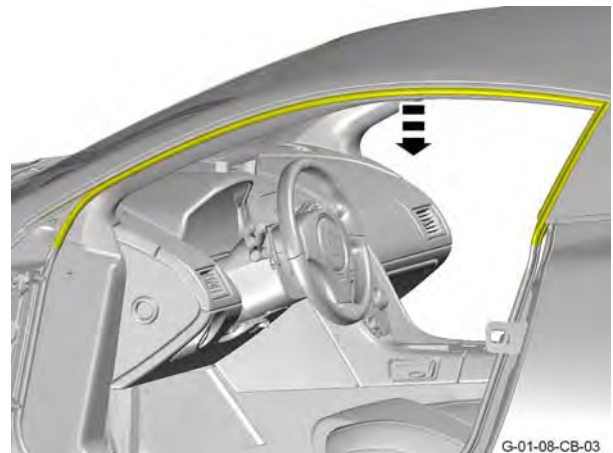
1. Remove the two screws that attach the seal finisher to the body.



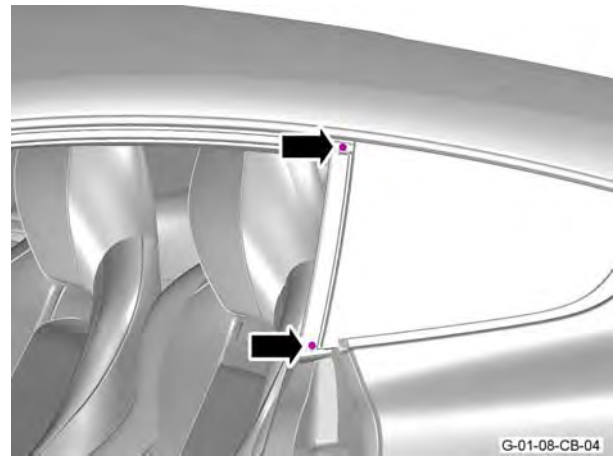
2. Remove the seal finisher.



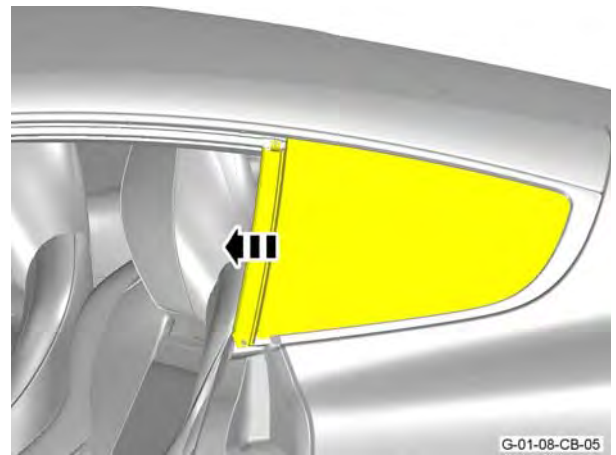
3. Release the door seal from the body.



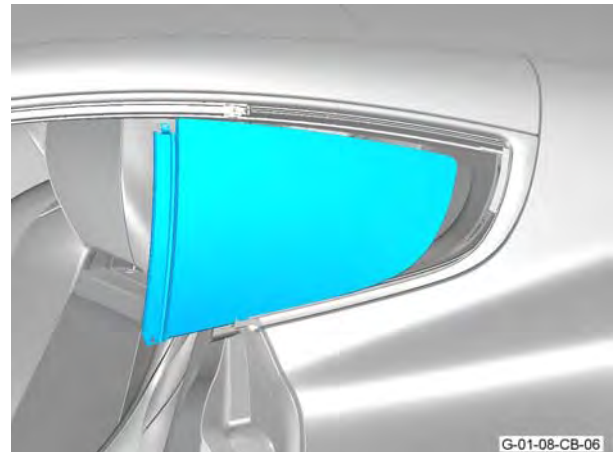
4. Remove the two screws that attach the quarter glass window to the body.



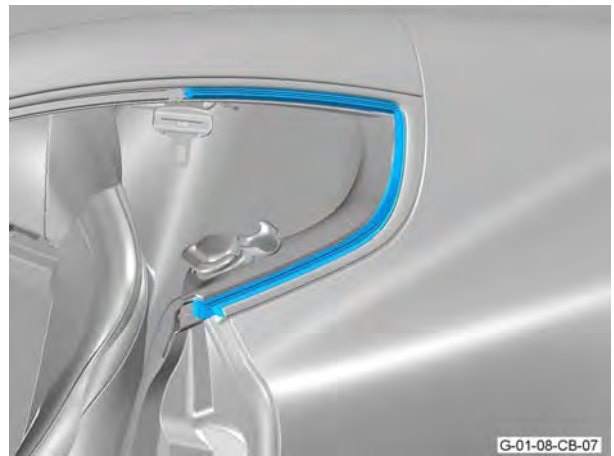
5. Release the quarter glass window from the seal for the quarter glass window.



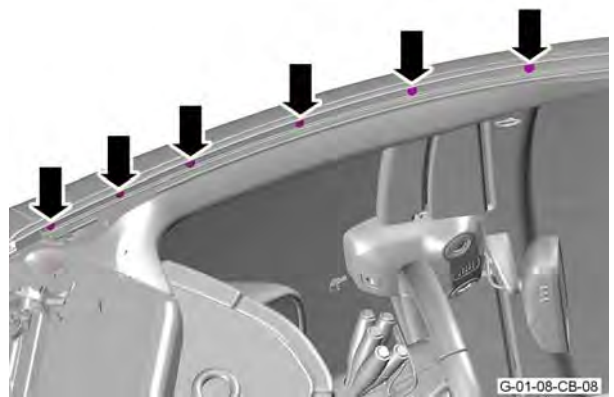
6. Remove the quarter glass window.



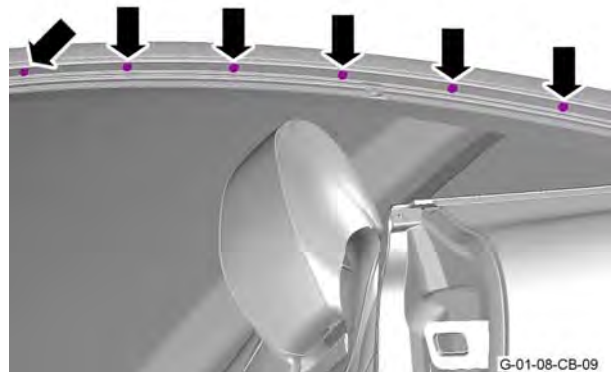
7. Remove the seal for the quarter glass window.



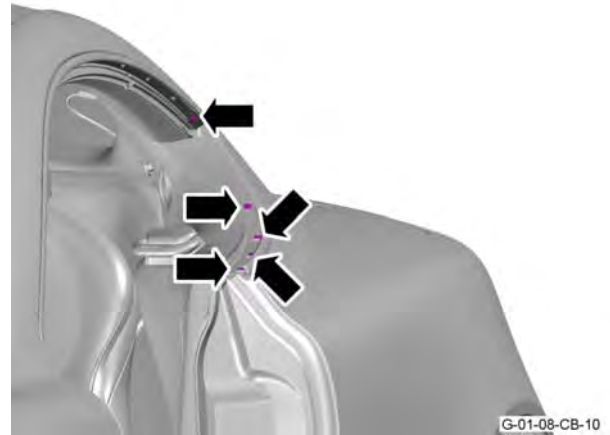
8. Remove the six screws that attach the roof finisher for the side glass to the body.



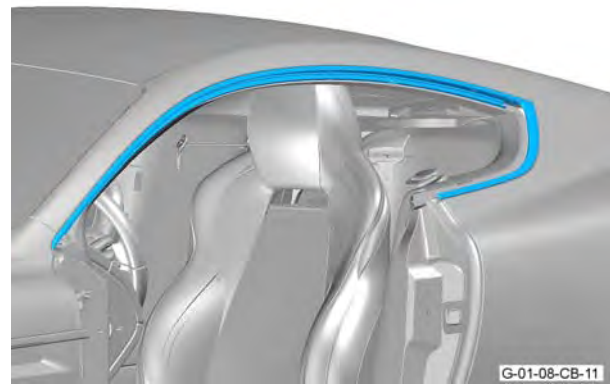
9. Remove the six screws that attach the roof finisher for the side glass to the body.



10. Remove the five screws that attach the roof finisher for the side glass to the body.

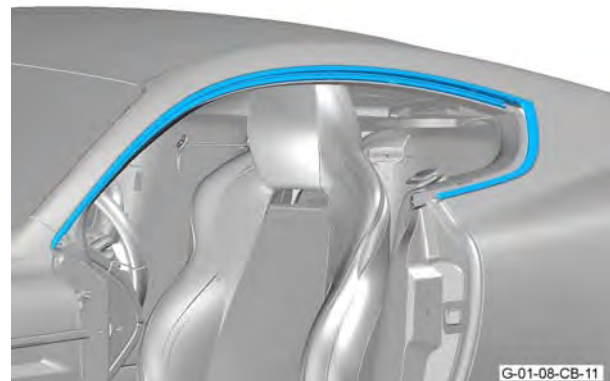


11. Remove the roof finisher for the side glass.

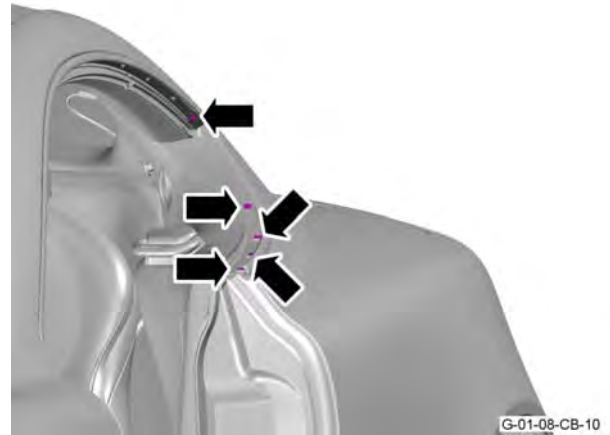


Install

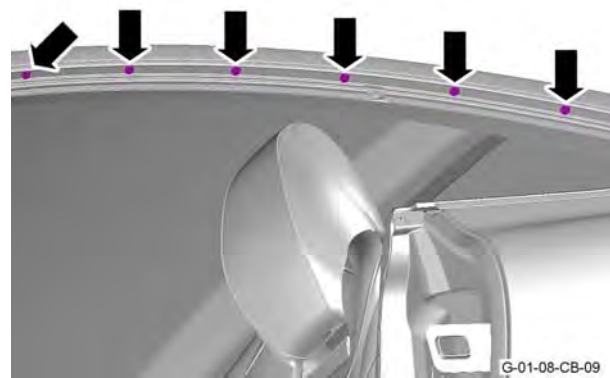
1. Install the roof finisher for the side glass.



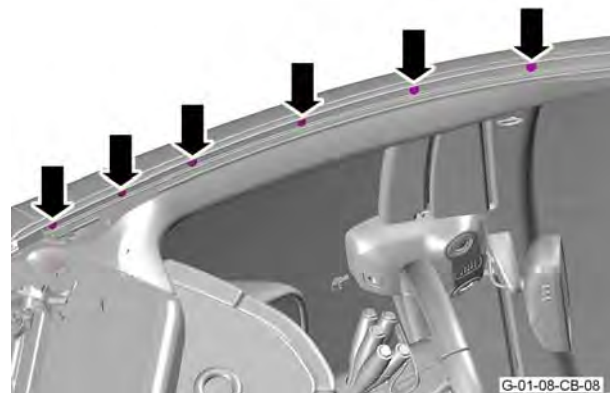
2. Install and tighten the five screws that attach the roof finisher for the side glass to the body.



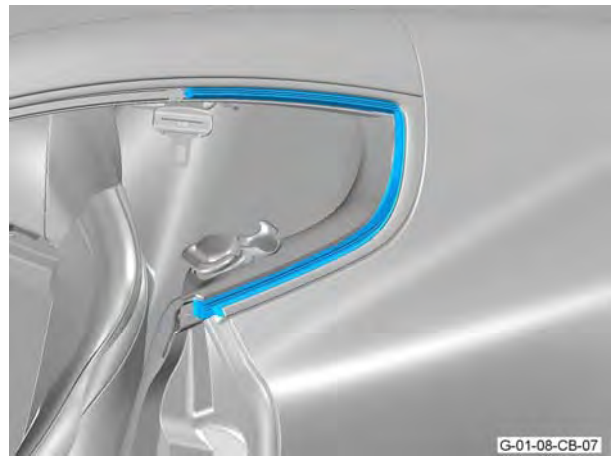
3. Install and tighten the six screws that attach the roof finisher for the side glass to the body.



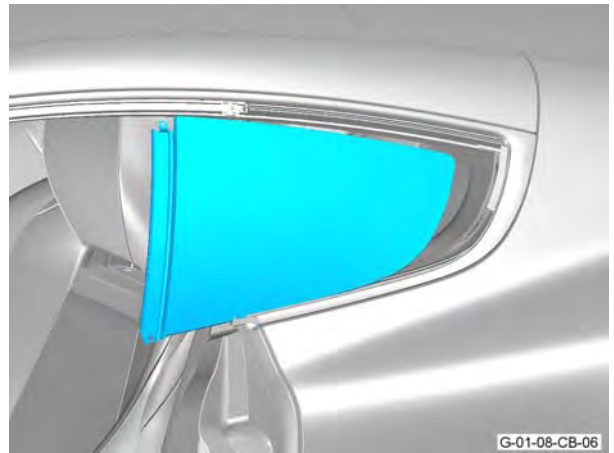
4. Install and tighten the six screws that attach the roof finisher for the side glass to the body.



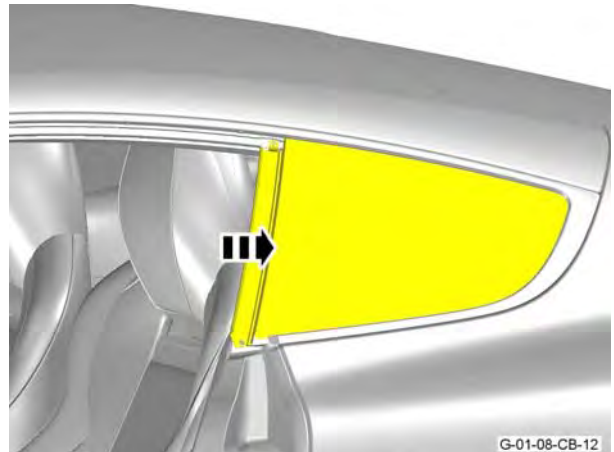
5. Install the seal for the quarter glass window.



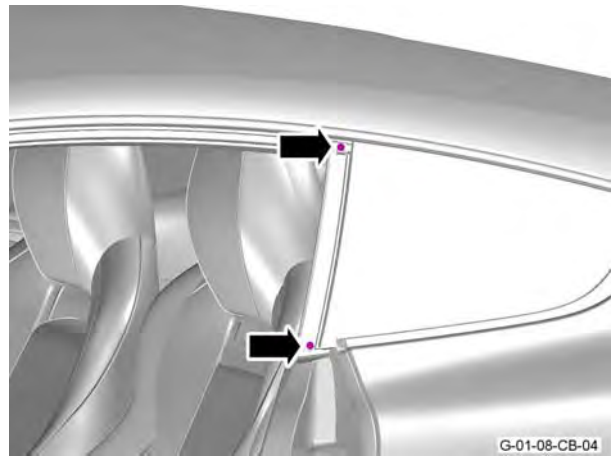
6. Put the quarter glass window into position.



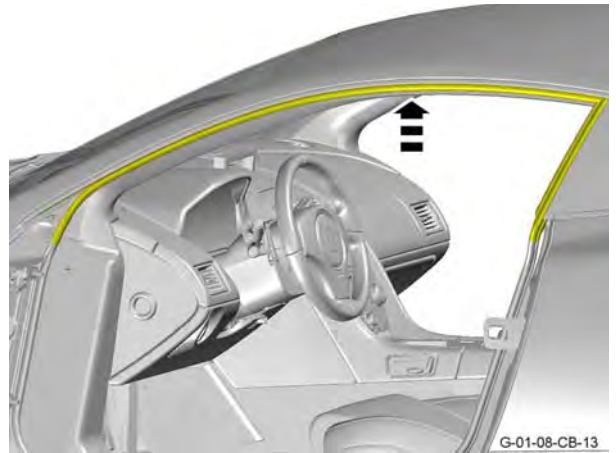
7. Install the quarter glass window to the seal for the quarter glass window.



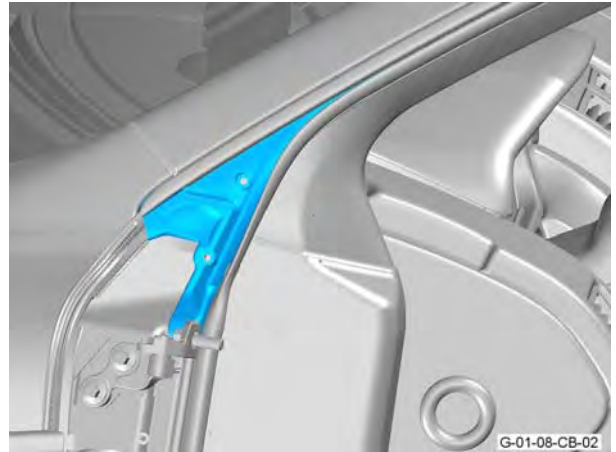
8. Install and tighten the two screws that attach the quarter glass window to the body.



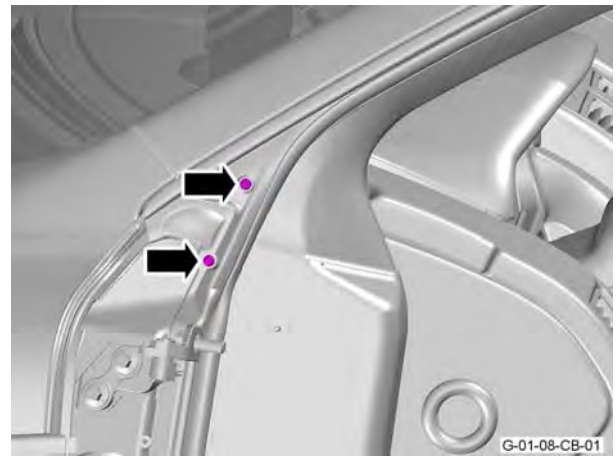
9. Install the door seal to the body.



10. Install the seal finisher.






11. Install and tighten the two screws that attach the seal finisher to the body.



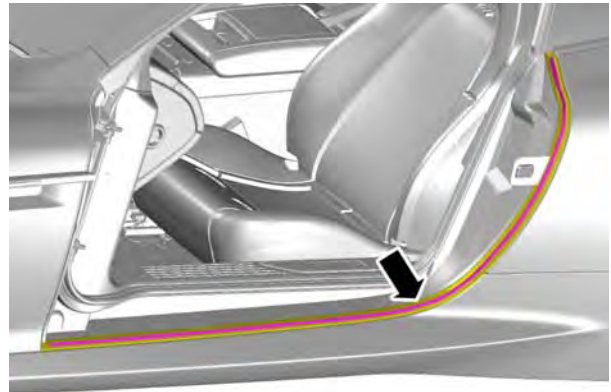
Published date: 2011-04-12 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.08.CD Left Side Sill Applique (Remove and Install New Part)**

-  WSM Data
-  Included Procedures
-  Is Used In

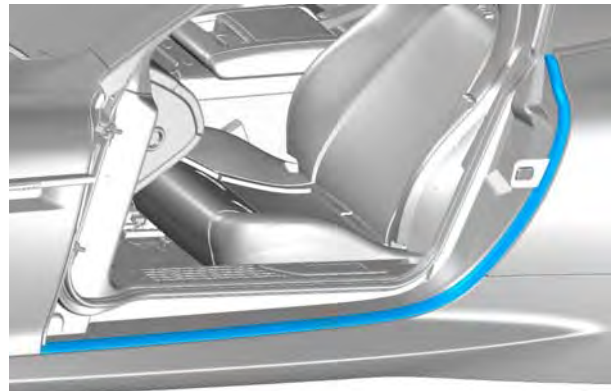
Removal

1. Remove the left side front and rear wheels and tyres (04.04.ED - Wheels and Tyres - Two).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the front left side wheel-arch liner (01.02.FB - Front Left Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)
3. Remove the rear left side wheel-arch liner (01.02.JB - Rear Left Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)
4. Release the bottom margin seal from the adhesive that attaches it to the body.



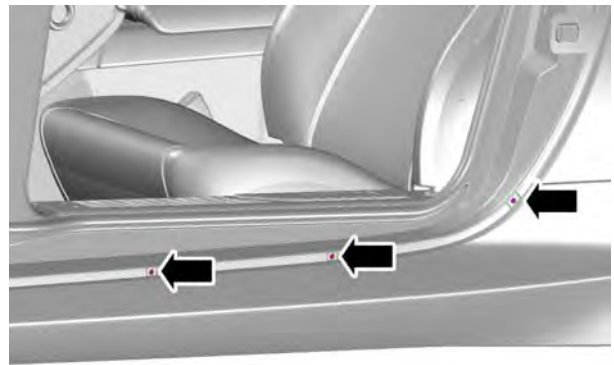
G-01-08-CD-01

5. Remove the bottom margin seal.



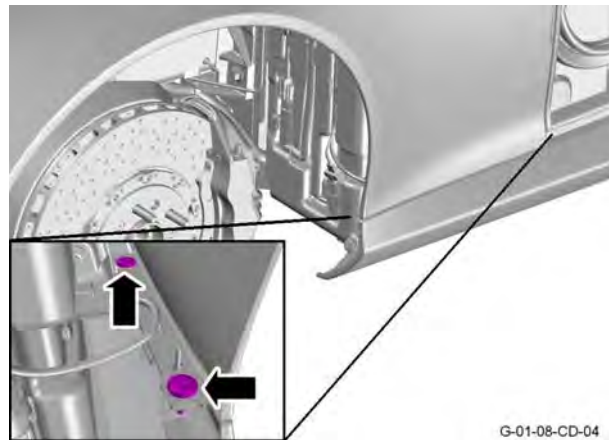
G-01-08-CD-02

6. Remove the three screws that attach the sill applique to the body.



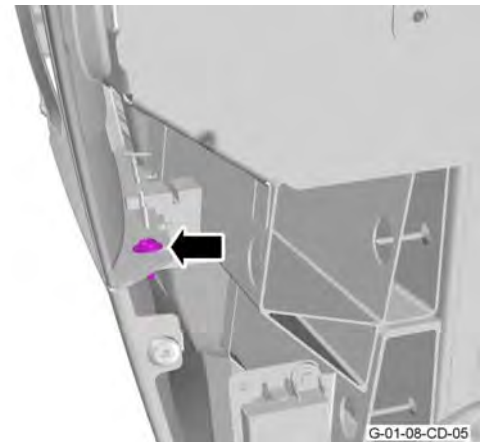
G-01-08-CD-03

7. Remove the two screws that attach the sill applique to the front wing panel.



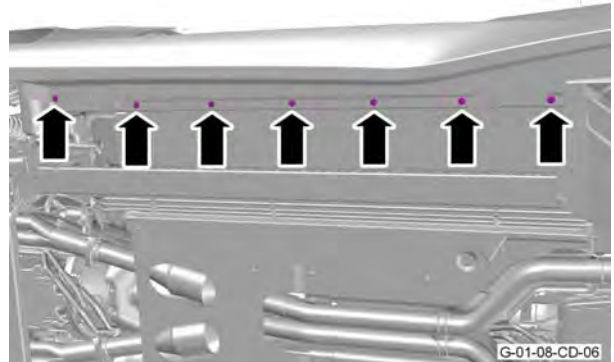
G-01-08-CD-04

8. Remove the screws that attaches the sill applique to the rear quarter panel.

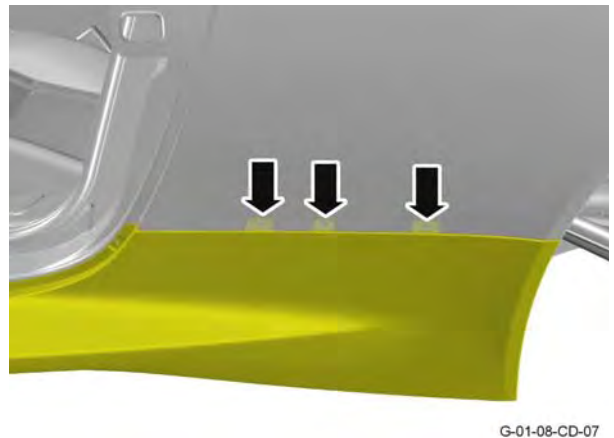


G-01-08-CD-05

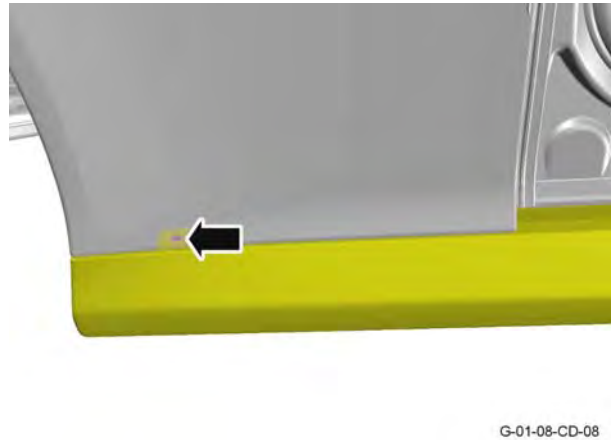
9. Remove the seven screws that attach the sill applique to the body.




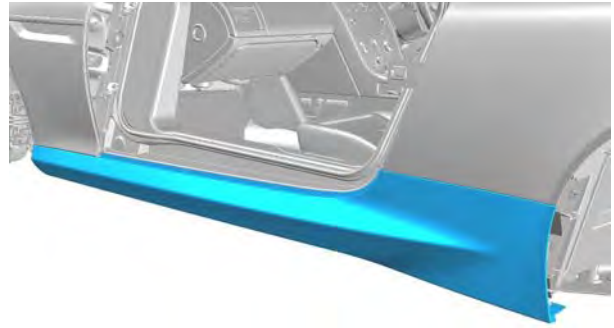
10. Release the sill applique from the three clips that attach it to the rear quarter panel.



11. Release the sill applique from the clip that attaches it to the front wing panel.




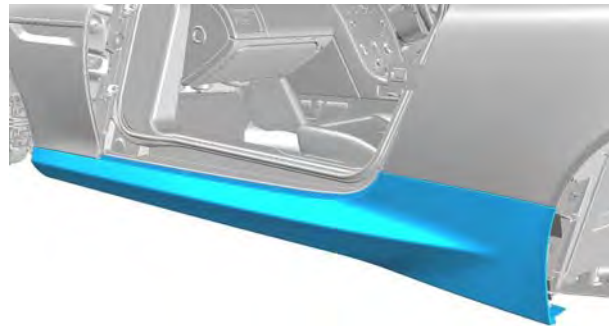
12.  **Warning: The sill applique is large. You must have the aid of one more technician to do the step that follows.**
Remove the sill applique.



G-01-08-CC-09

Install

1.  **Warning: The sill applique is large. You must have the aid of one more technician to do the step that follows.**
Put the sill applique into position.



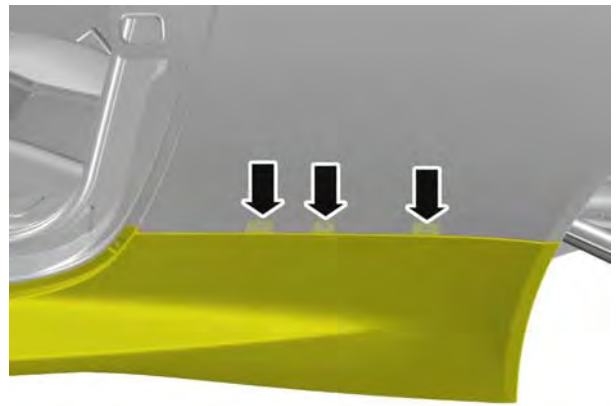
G-01-08-CC-09

2. Install the sill applique to the clip that attaches it to the front wing panel.



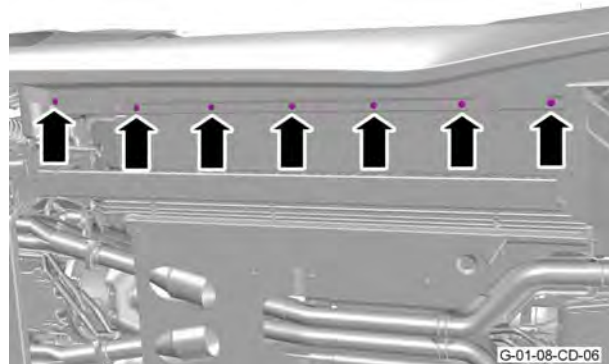
G-01-08-CD-08

3. Install the sill applique to the three clips that attach it to the rear quarter panel.



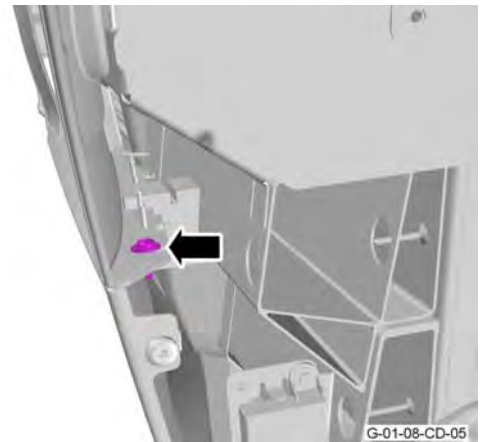
G-01-08-CD-07

4. Install and torque the seven screws that attach the sill applique to the body to 9 Nm.



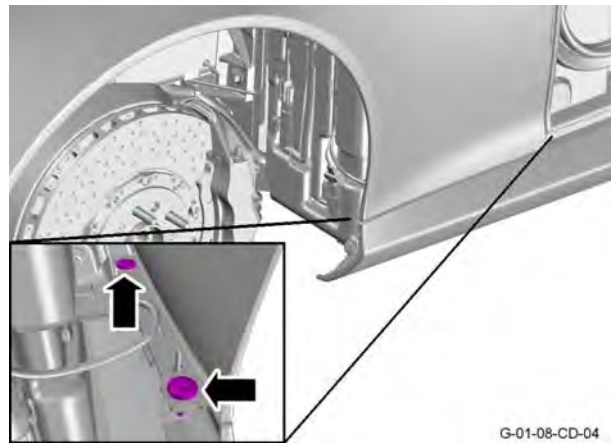
G-01-08-CD-06

5. Install and torque the screws that attaches the sill applique to the rear quarter panel to 9 Nm.

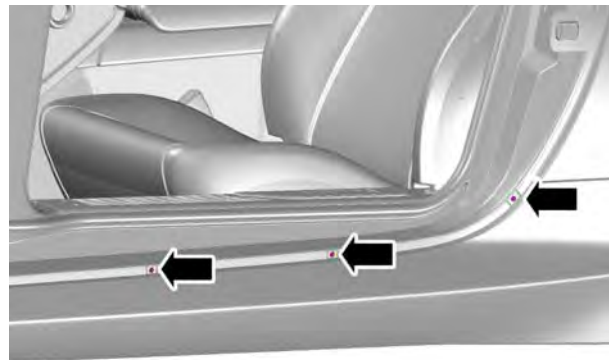


G-01-08-CD-05

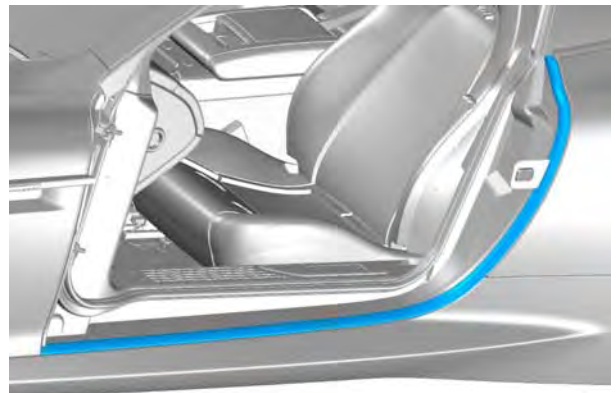
6. Install and torque the two screws that attach the sill applique to the front wing panel to 9 Nm.



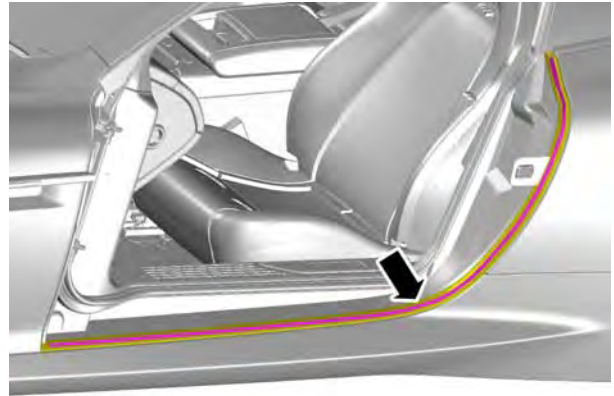
7. Install and tighten the three screws that attach the sill applique to the body.



8. Put the bottom margin seal into position.



9. Install the bottom margin seal to the body with the adhesive tape.






G-01-08-CD-01

10. Install the rear left side wheel-arch liner (01.02.JB - Rear Left Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)
11. Install the front left side wheel-arch liner (01.02.FB - Front Left Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)
12. Install the left side front and rear wheels and tyres (04.04.ED - Wheels and Tyres - Two).
[\[Open Workshop Manual Procedure\]](#)

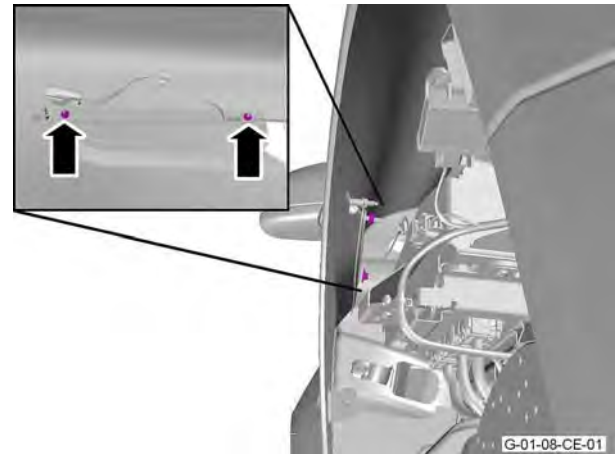
Published date: 2011-05-03 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.08.CE Mesh for the Right Side Side Strake (Remove and Install New Part)**

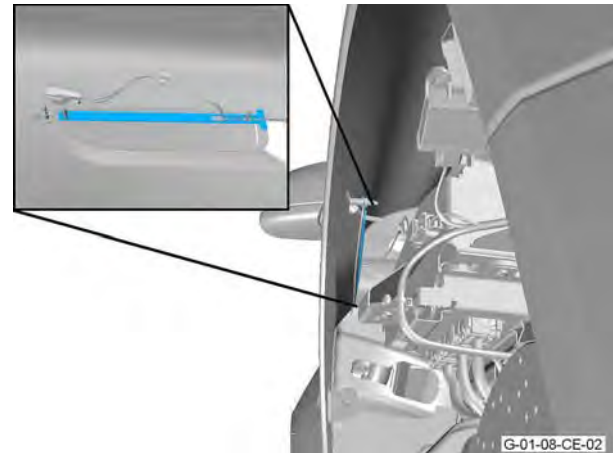
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

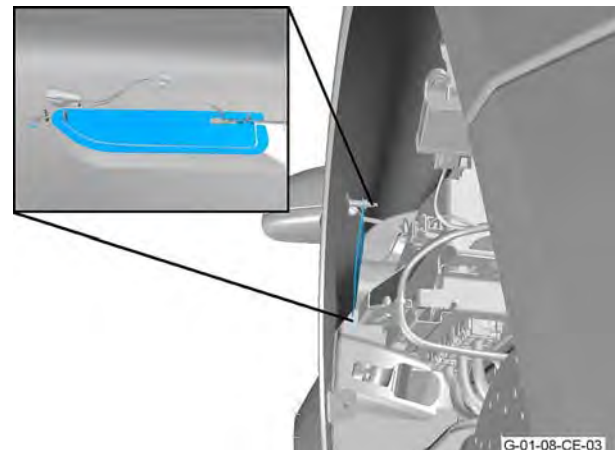
1. Remove the front right side wheel-arch liner (01.02.GB - Front Right Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the two nuts that attach the mesh for the side strake to the side strake.



3. Remove the support bar for the mesh for the side strake.

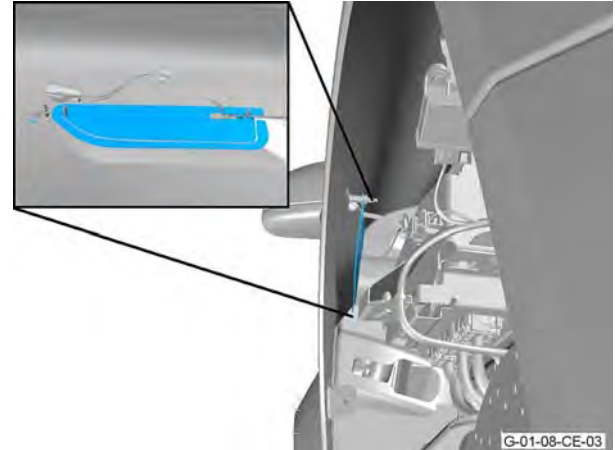


4. Remove the mesh for the side strake.

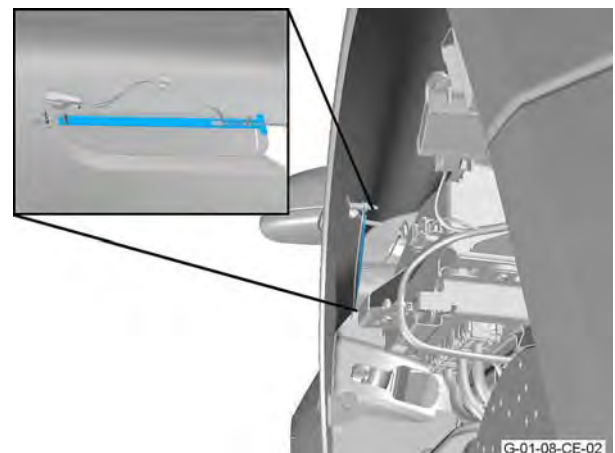


Install

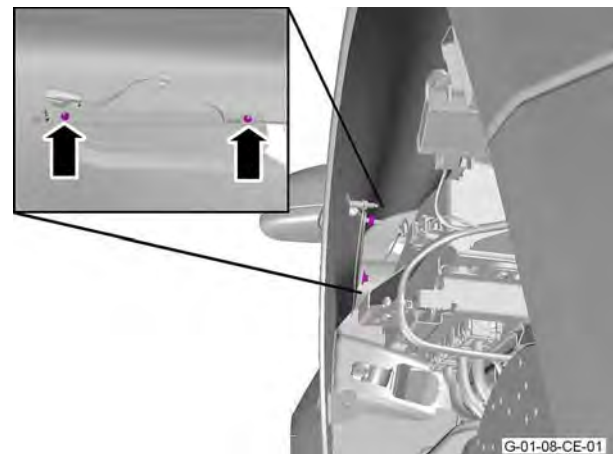
1. Install the mesh for the side strake.



2. Install the support bar for the mesh for the side strake.






3. Install and tighten the two nuts that attach the mesh for the side strake to the side strake.



4. Install the front right side wheel-arch liner (01.02.GB - Front Right Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)

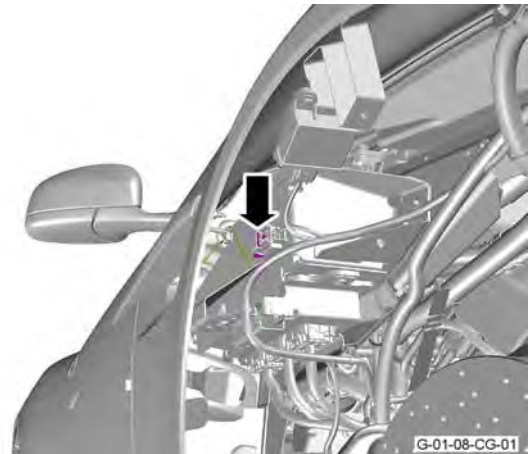
Published date: 2011-04-12 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.08.CG Right Side Wing Side Strake (Remove and Install New Part)**

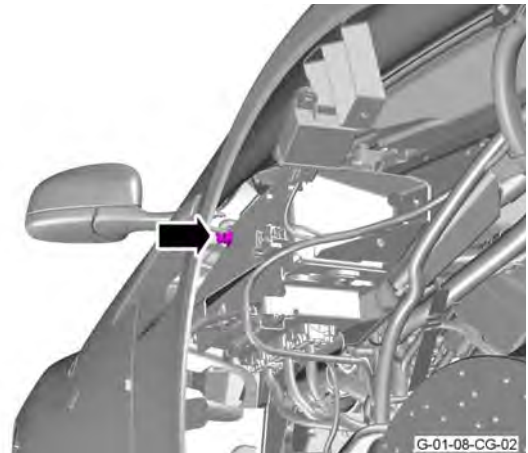
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

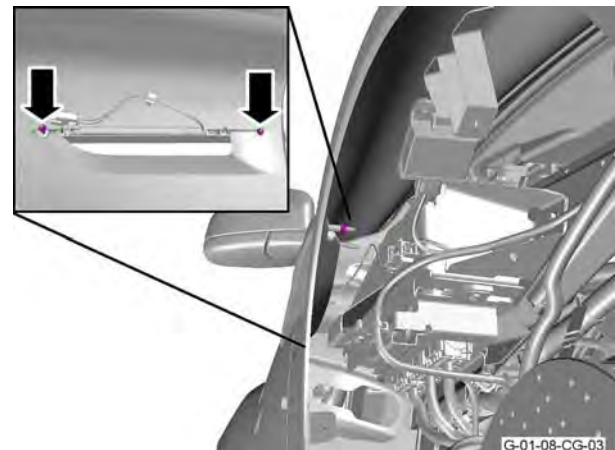
1. Remove the mesh for the right side side strake (01.08.CE - Mesh for the Right Side Side Strake).
[\[Open Workshop Manual Procedure\]](#)
2. Disconnect the electrical connector from the forward harness.



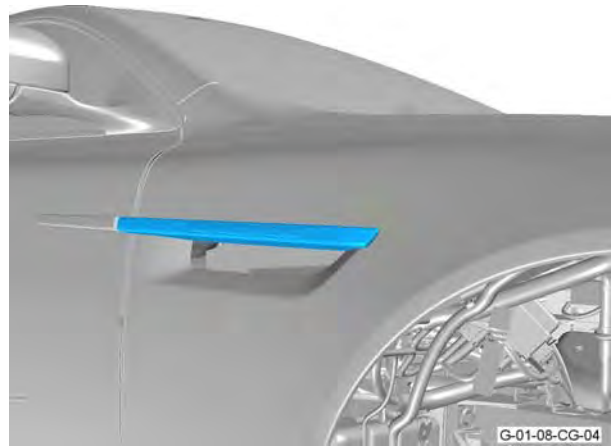
3. Release the wiring harness for the side repeater from the clip that attaches it to the body.




4. Remove the two nuts that attach the wing side strake to the wing.



5. Remove the wing side strake.



6.  *Note: If removal of the wing side strake is to give access only, do not do the steps that follow.*

Remove the two screws that attach the side repeater to the wing side strake.



7. Remove the side repeater.



Install

1. Install the side repeater.



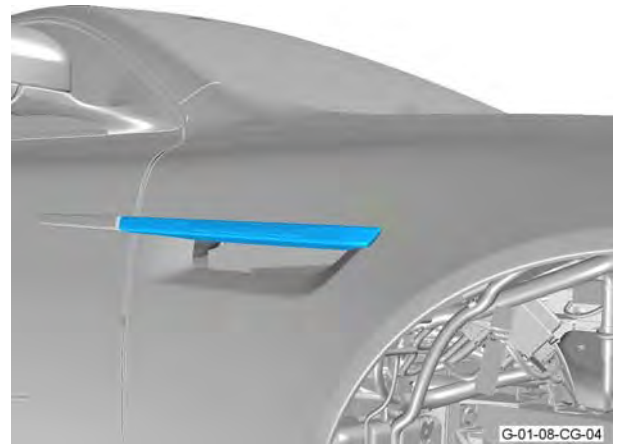
G-01-08-CG-06

2. Install and tighten the two screws that attach the side repeater to the wing side strake.



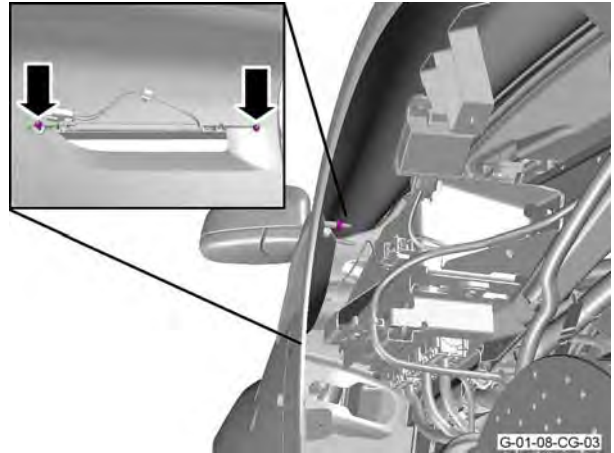
G-01-08-CG-05

3. Install the wing side strake.

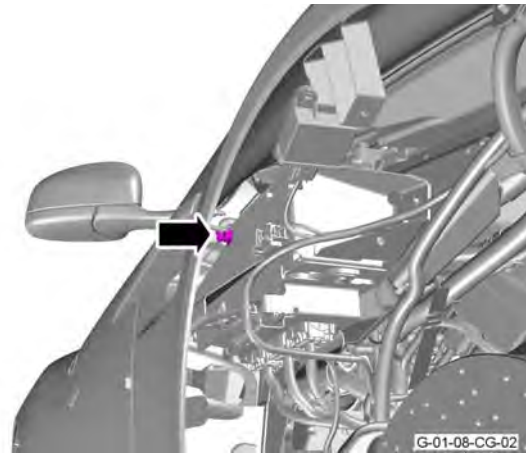


G-01-08-CG-04

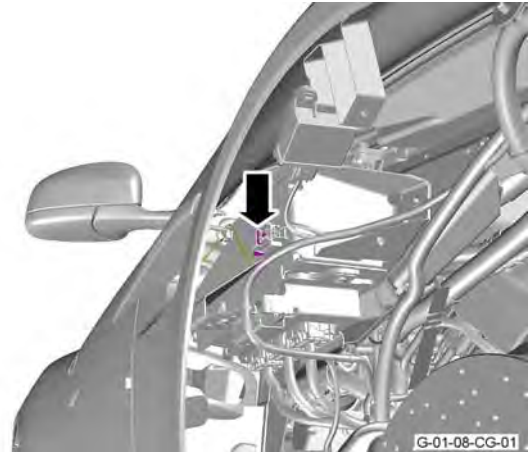
4. Install and tighten the two nuts that attach the wing side strake to the wing.



5. Install the wiring harness for the side repeater to the clip that attaches it to the body.






6. Connect the electrical connector to the forward harness.



7. Install the mesh for the right side side strake (01.08.CE - Mesh for the Right Side Side Strake).
[\[Open Workshop Manual Procedure\]](#)

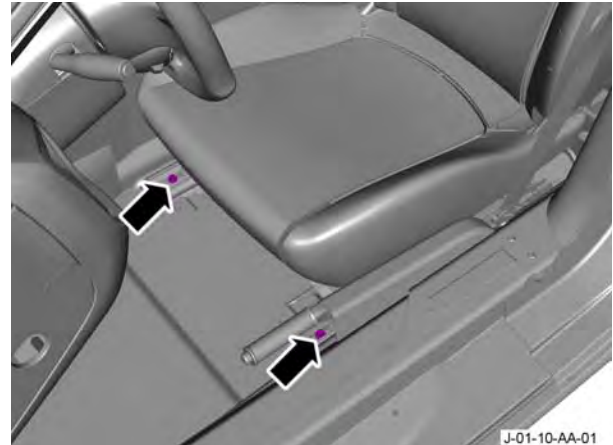
Published date: 2011-04-12 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.10.AA Left Side Front Seat Assembly (Remove for Access and Install)**

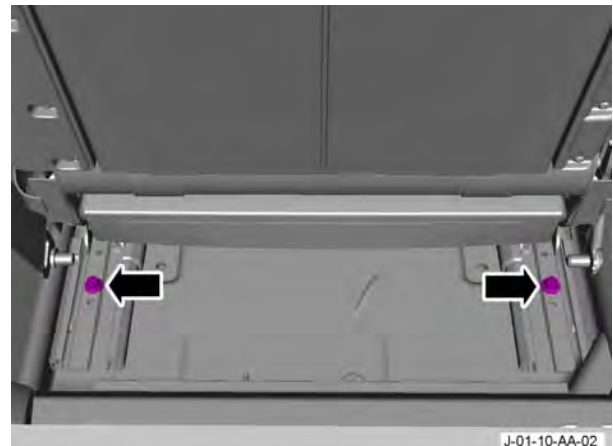
-  WSM Data
-  Included Procedures
-  Is Used In

Remove for Access

1. Operate the seat to its fully rearward position.
2. Remove the two bolts that attach the seat rails to the body.



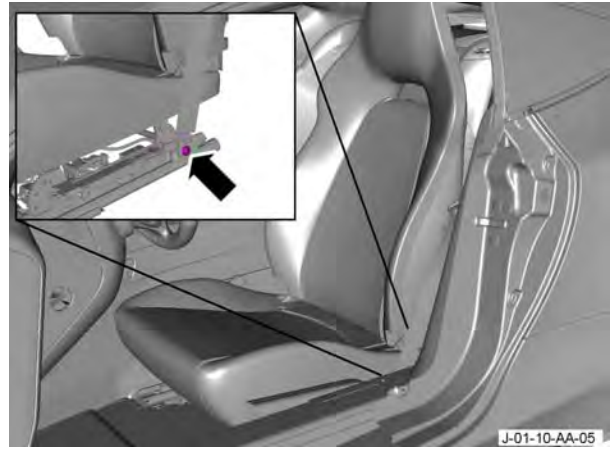
3. Operate the seat to its fully forward position.
4. Remove the two bolts that attach the seat rails to the body.



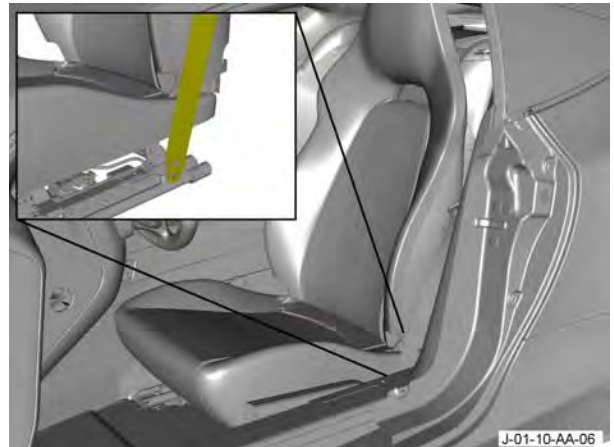
5. Do the battery disconnection procedure (14.01.CA - Battery Disconnection and Connection Procedure).

[\[Open Workshop Manual Procedure\]](#)

6. Remove the bolt that attaches the seat belt to the seat.



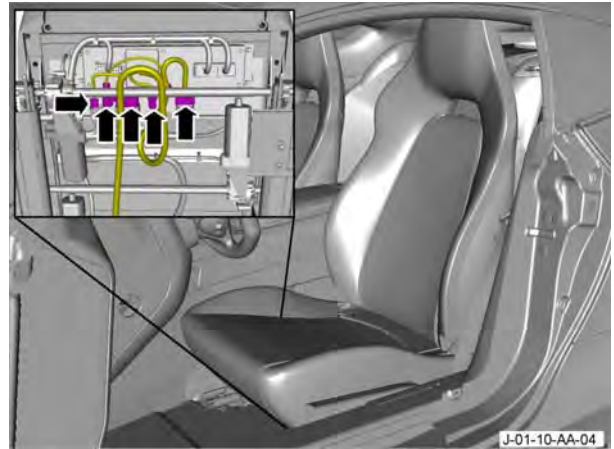
7. Release the seat belt from the seat.



8. Tilt the seat rearwards to get access to the electrical connectors for the seat module.



9. Disconnect the five electrical connectors from the seat module.



10. Apply protection to the sill scuff-plate and the trim.

11. **Warning: The seat is heavy. You must have the aid of one more technician to do the step that follows.**

Remove the seat.



Install

1. **Warning: The seat is heavy. You must have the aid of one more technician to do the step that follows.**

Install the seat.

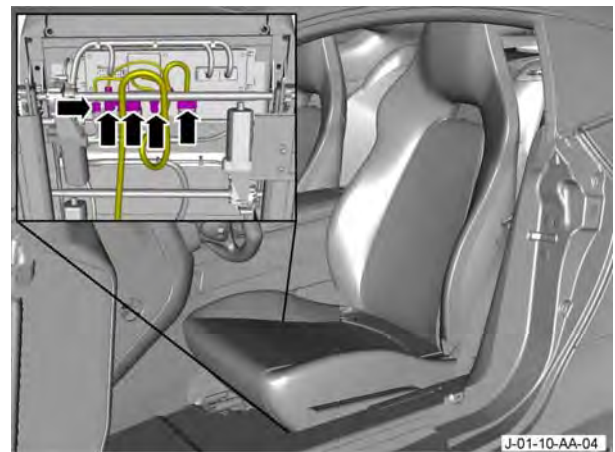


2. Remove the protection from the sill scuff-plate and the trim.

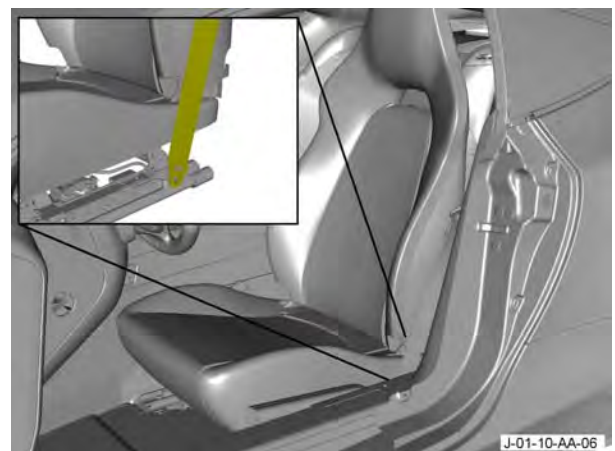
3. Tilt the seat rearwards to get access to the electrical connectors for the seat module.



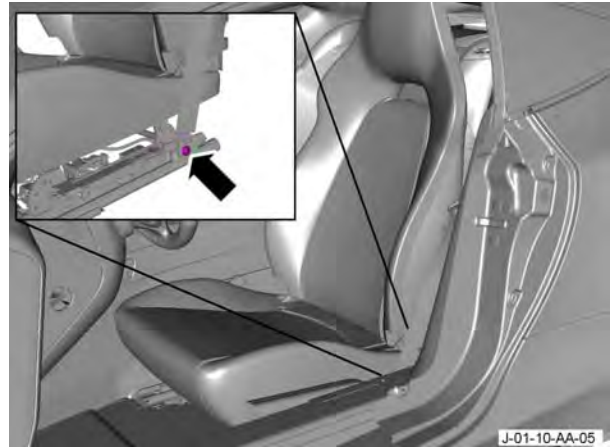
4. Connect the five electrical connectors to the seat module.



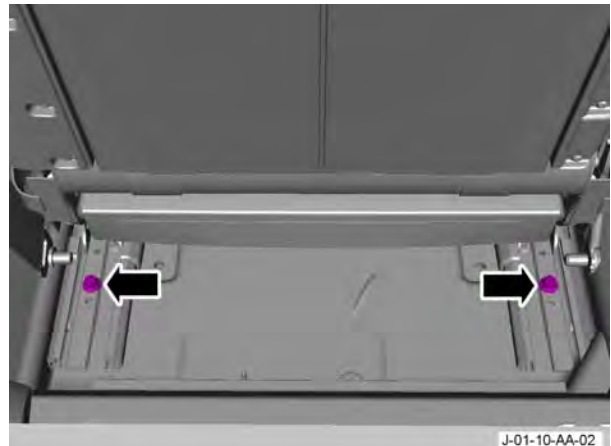
5. Put the seat belt into position.



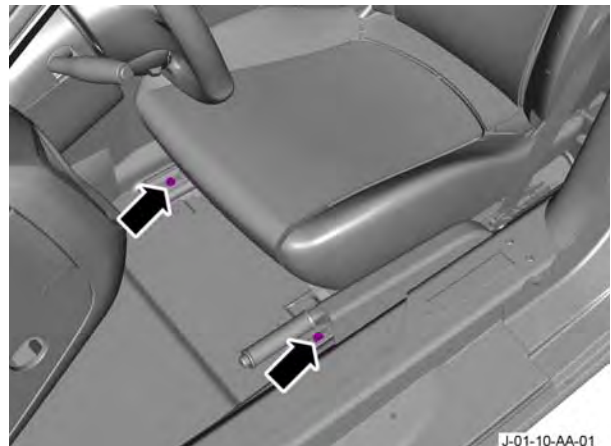
6. Install and torque the bolt that attaches the seat belt to the seat to 33 Nm.



7. Do the battery connection procedure (14.01.CA - Battery Disconnection and Connection Procedure).
[\[Open Workshop Manual Procedure\]](#)
8. Operate the seat to its fully forward position.
9. Install and torque the two bolts that attach the seat rails to the body to 25 Nm.






10. Operate the seat to its fully rearward position.
11. Install and torque the two bolts that attach the seat rails to the body to 25 Nm.



12. Operate the seat to its initial position.

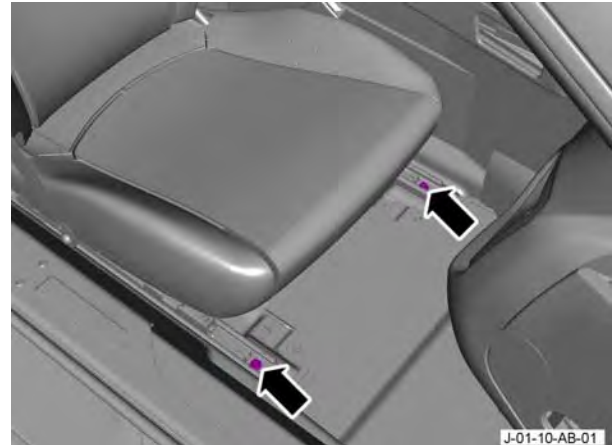
Published date: 2011-05-04 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.10.AB Right Side Front Seat Assembly (Remove for Access and Install)**

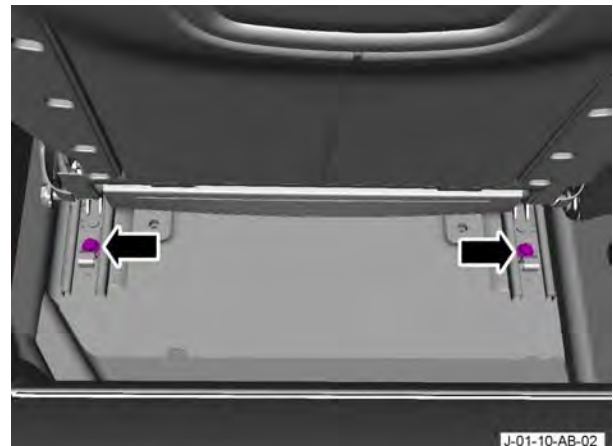
-  WSM Data
-  Included Procedures
-  Is Used In

Remove for Access

1. Operate the seat to its fully rearward position.
2. Remove the two bolts that attach the seat rails to the body.



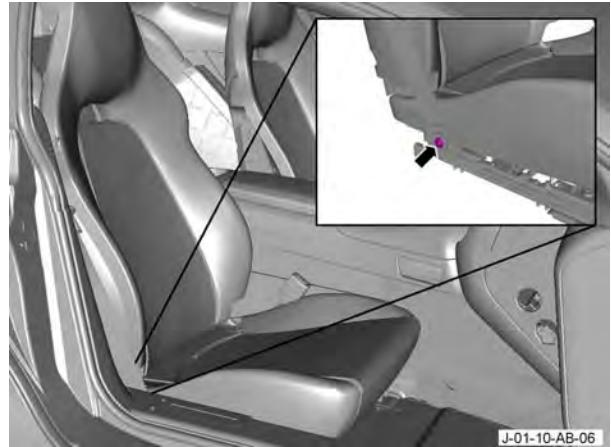
3. Operate the seat to its fully forward position.
4. Remove the two bolts that attach the seat rails to the body.



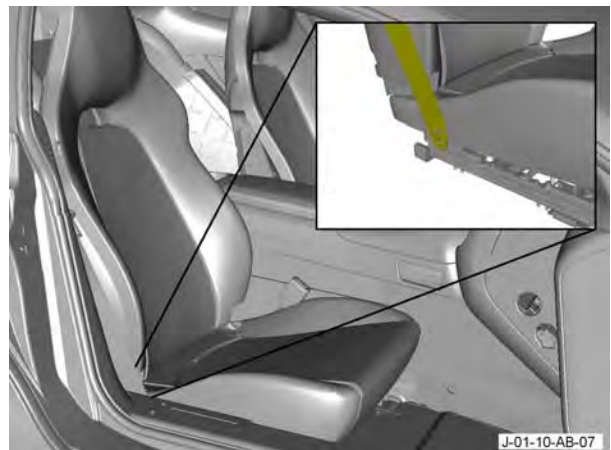
5. Do the battery disconnection procedure (14.01.CA - Battery Disconnection and Connection Procedure).

[\[Open Workshop Manual Procedure\]](#)

6. Remove the bolt that attaches the seat belt to the seat.



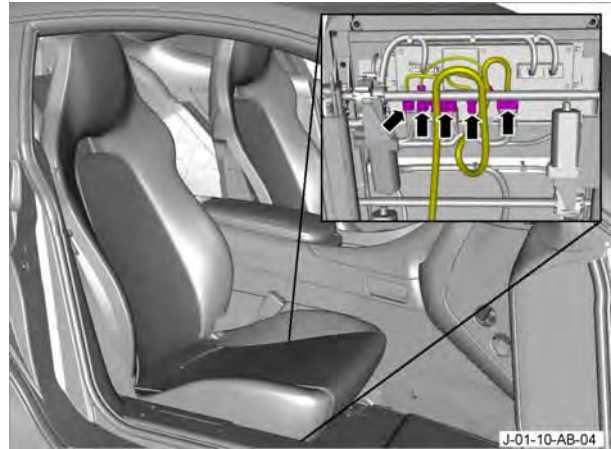
7. Release the seat belt from the seat.



8. Tilt the seat rearwards to get access to the electrical connectors for the seat module.



9. Disconnect the five electrical connectors from the seat module.



10. Apply protection to the sill scuff-plate and the trim.

11. **Warning: The seat is heavy. You must have the aid of one more technician to do the step that follows.**

Remove the seat.



Install

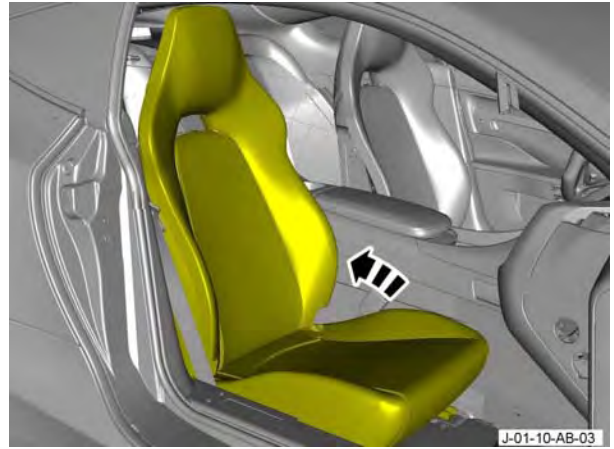
1. **Warning: The seat is heavy. You must have the aid of one more technician to do the step that follows.**

Install the seat.

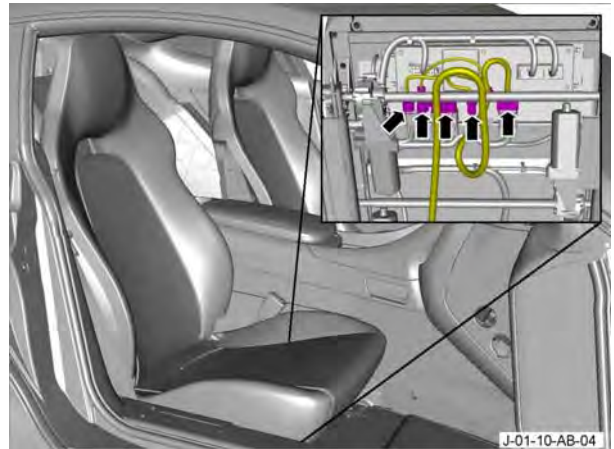


2. Remove the protection from the sill scuff-plate and the trim.

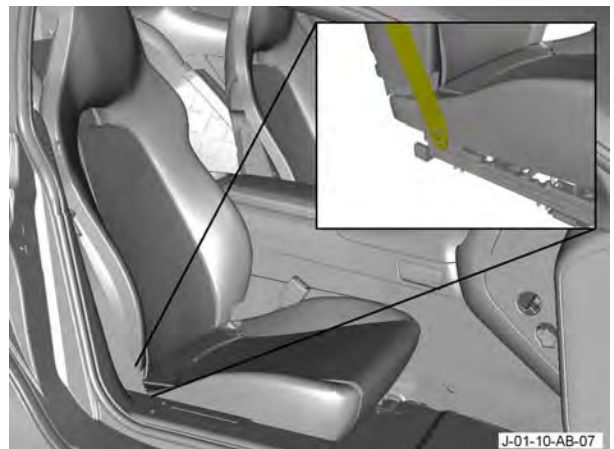
3. Tilt the seat rearwards to get access to the electrical connectors for the seat module.



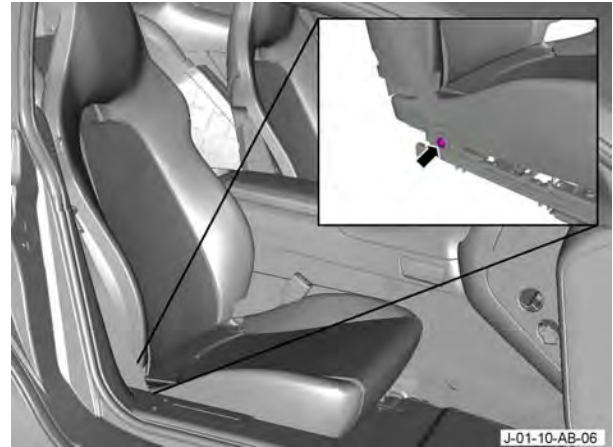
4. Connect the five electrical connectors to the seat module.



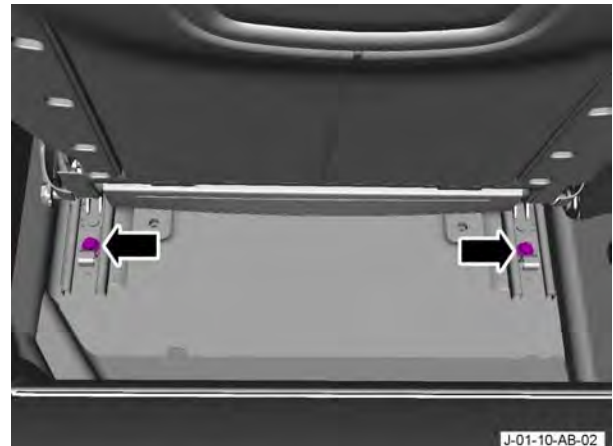
5. Put the seat belt into position.



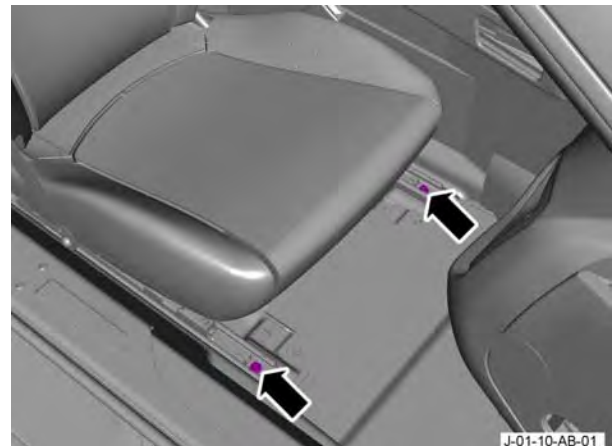
6. Install and torque the bolt that attaches the seat belt to the seat to 33 Nm.



7. Do the battery connection procedure (14.01.CA - Battery Disconnection and Connection Procedure).
[\[Open Workshop Manual Procedure\]](#)
8. Operate the seat to its fully forward position.
9. Install and torque the two bolts that attach the seat rails to the body to 25 Nm.






10. Operate the seat to its fully rearward position.
11. Install and torque the two bolts that attach the seat rails to the body to 25 Nm.



12. Operate the seat to its initial position.

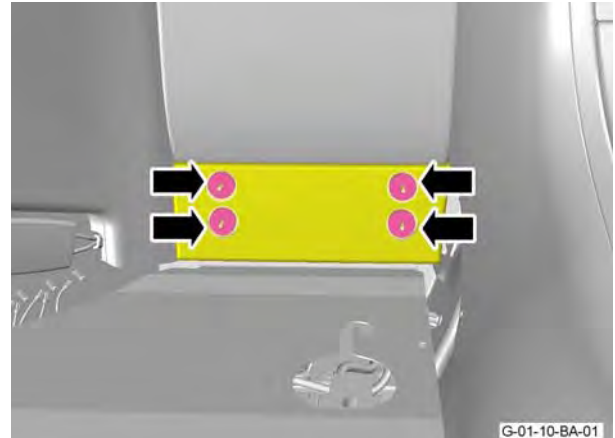
Published date: 2011-05-04 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.10.BA Lower Cushion Pad for the Right Side Rear Seat (Remove and Install New Part)**

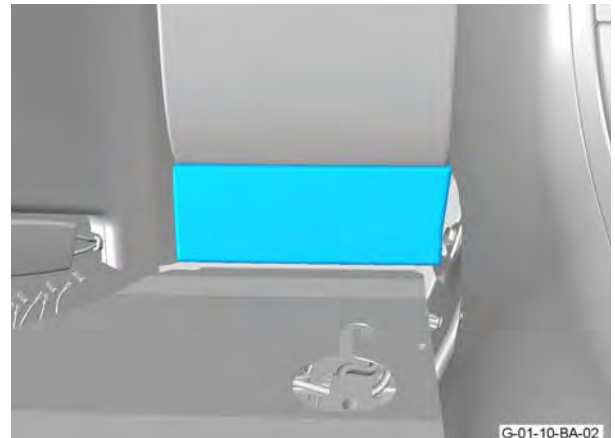
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

1. Remove the right side rear seat cushion (01.10.BH - Right Side Rear Seat Cushion).
[\[Open Workshop Manual Procedure\]](#)
2. Release the lower cushion pad from the four clips that attach it to the body.

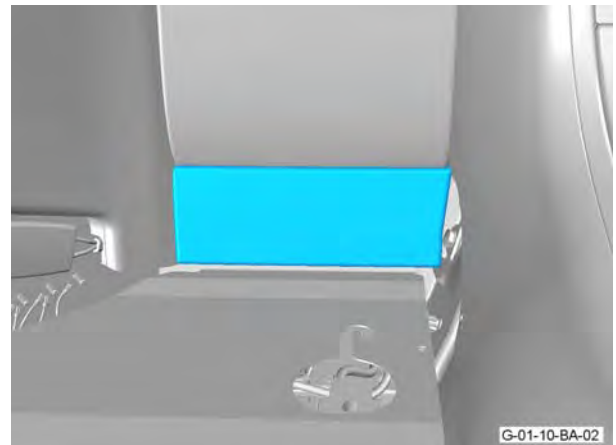


3. Remove the lower cushion pad.

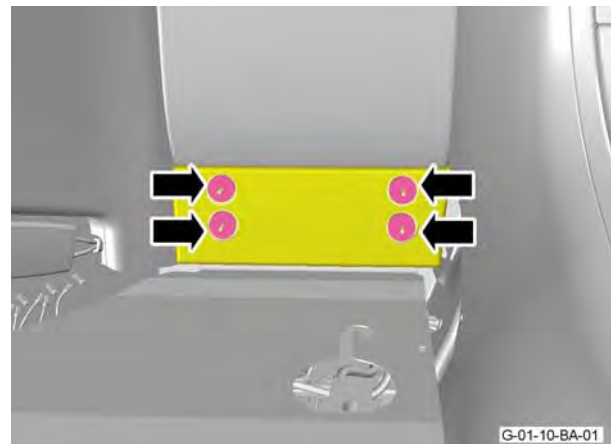


Install

1. Put the lower cushion pad into position.



2. Install the lower cushion pad to the four clips that attach it to the body.






3. Install the right side rear seat cushion (01.10.BH - Right Side Rear Seat Cushion).
[\[Open Workshop Manual Procedure\]](#)

Published date: 2011-05-05 Procedure last changed: 2015-06-25 16:39:17

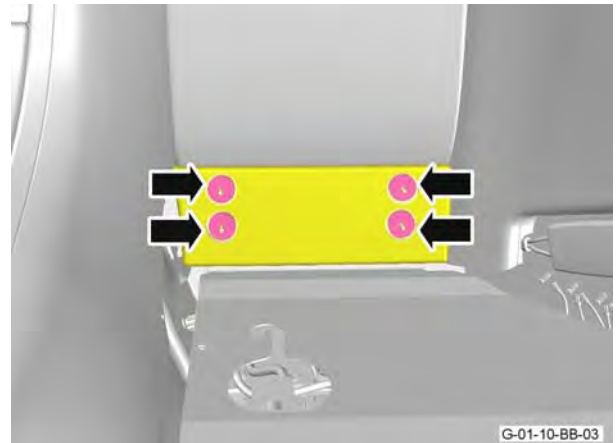
Small **Normal** **Large**

01.10.BB Lower Cushion Pad for the Left Side Rear Seat (Remove and Install New Part)

-  WSM Data
-  Included Procedures
-  Is Used In

Removal

1. Remove the left side rear seat cushion (01.10.BG - Left Side Rear Seat Cushion).
[\[Open Workshop Manual Procedure\]](#)
2. Release the lower cushion pad from the four clips that attach it to the body.

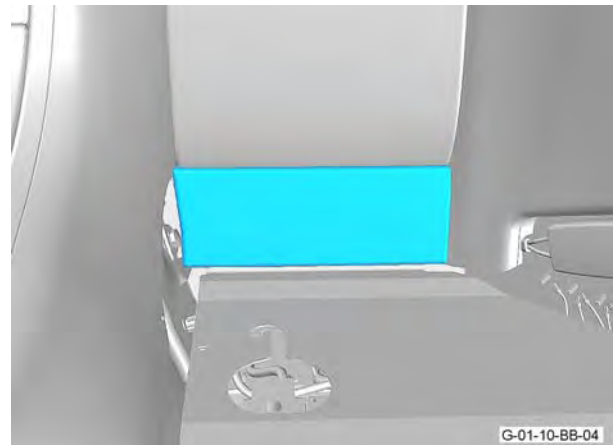


3. Remove the lower cushion pad.

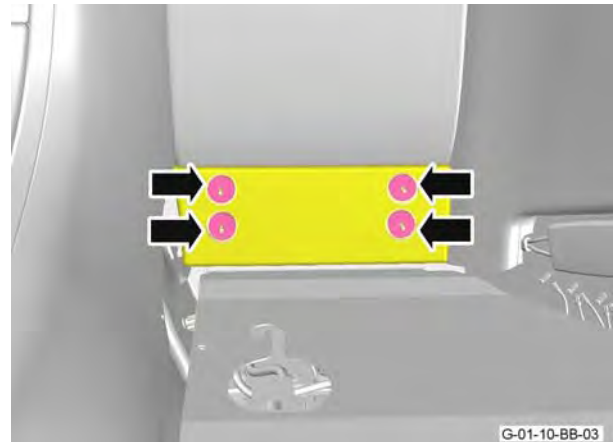


Install

1. Put the lower cushion pad into position.






2. Install the lower cushion pad to the four clips that attach it to the body.



3. Install the left side rear seat cushion (01.10.BG - Left Side Rear Seat Cushion).
[\[Open Workshop Manual Procedure\]](#)

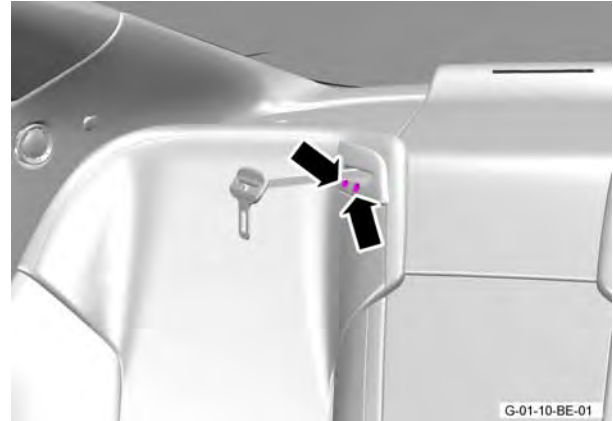
Published date: 2011-05-05 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.10.BE Right Side Rear Seat Back (Remove and Install New Part)**

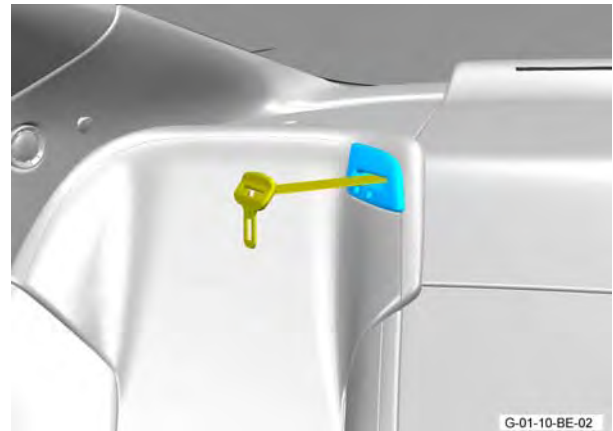
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

1. Remove the lower cushion pad for the right side rear seat (01.10.BA - Lower Cushion Pad for the Right Side Rear Seat).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the two screws that attach the seat belt bezel to the seat back.



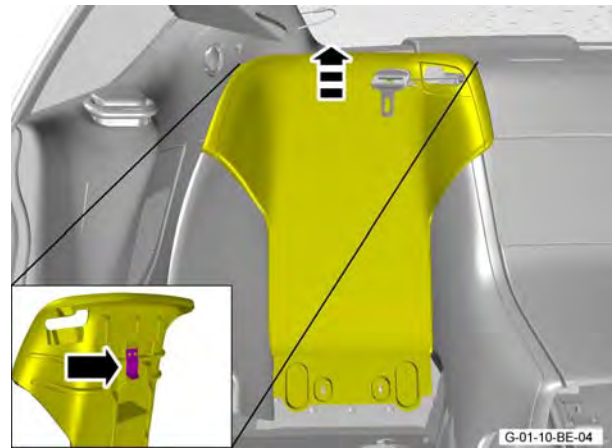
3. Remove the seat belt bezel.



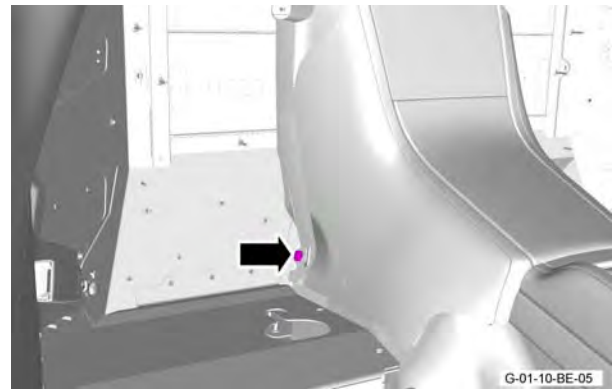
4. Remove the two screws that attach the seat back to the body.



5. Release the rear seat back from the alignment bracket.



6. Remove the bolt that attaches the seat belt anchor to the body.



7. Remove the seat back.

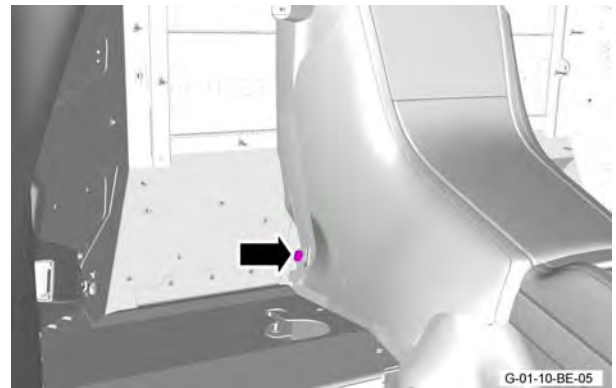


Install

1. Put the seat back into position.



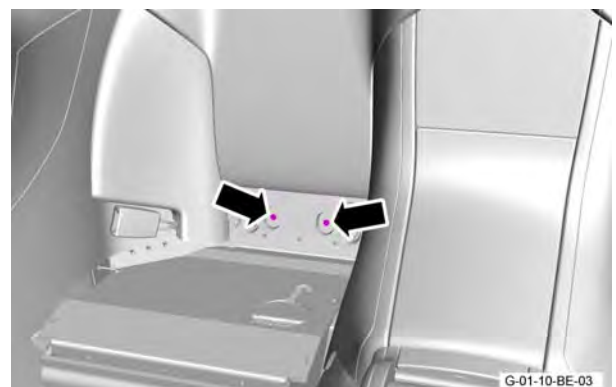
2. Install and torque the bolt that attaches the seat belt anchor to the body to 35 Nm.



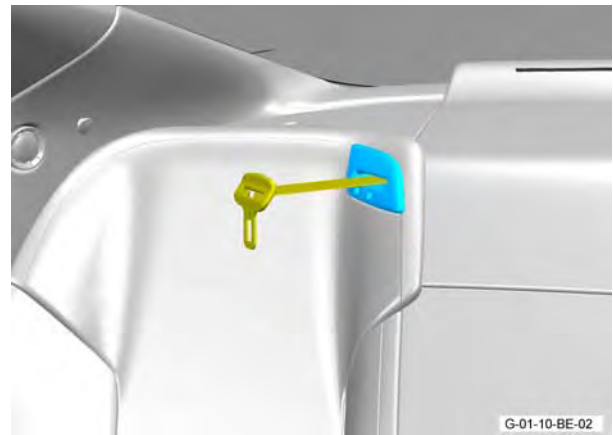
3. **Warning:** Make sure the seat back bracket is installed onto the bracket on the body. Install the rear seat back to the alignment bracket.



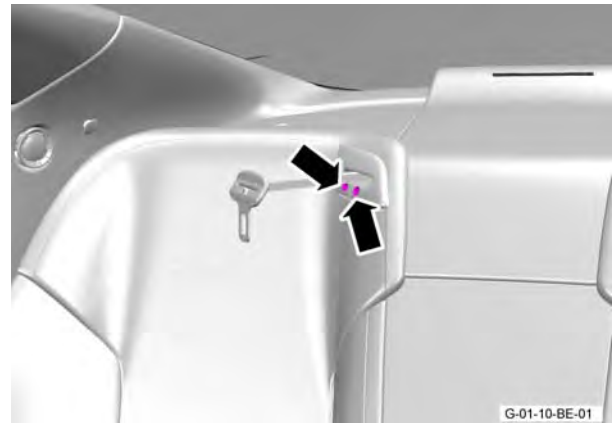
4. Install and torque the two screws that attach the seat back to the body to 5 Nm.



5. Install the seat belt bezel.



6. Install and tighten the two screws that attach the seat belt bezel to the seat back.






7. Install the lower cushion pad for the right side rear seat (01.10.BA - Lower Cushion Pad for the Right Side Rear Seat).

[\[Open Workshop Manual Procedure\]](#)

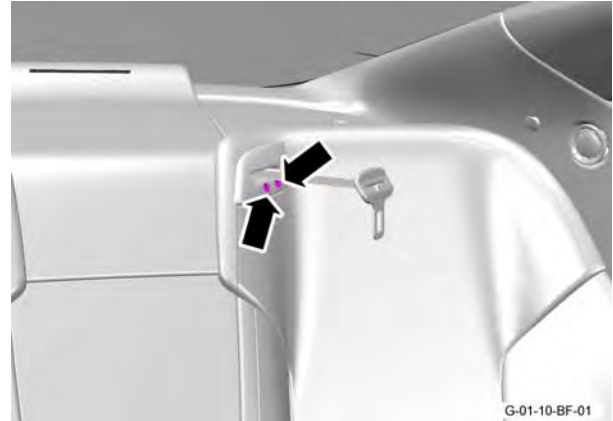
Published date: 2011-05-31 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.10.BF Left Side Rear Seat Back (Remove and Install New Part)**

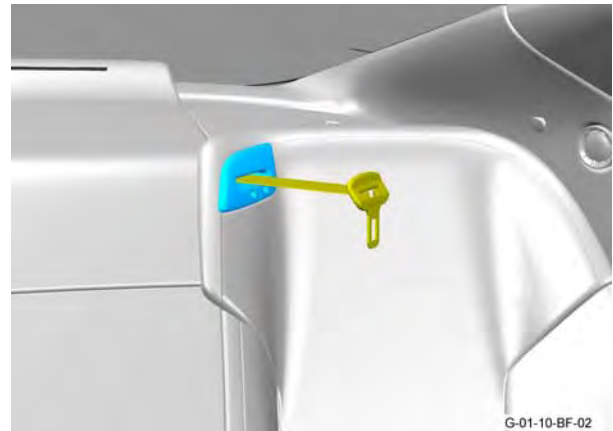
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

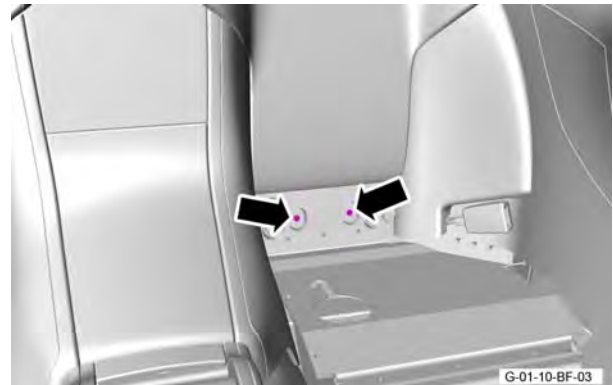
1. Remove the lower cushion pad for the left side rear seat (01.10.BB - Lower Cushion Pad for the Left Side Rear Seat).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the two screws that attach the seat belt bezel to the seat back.



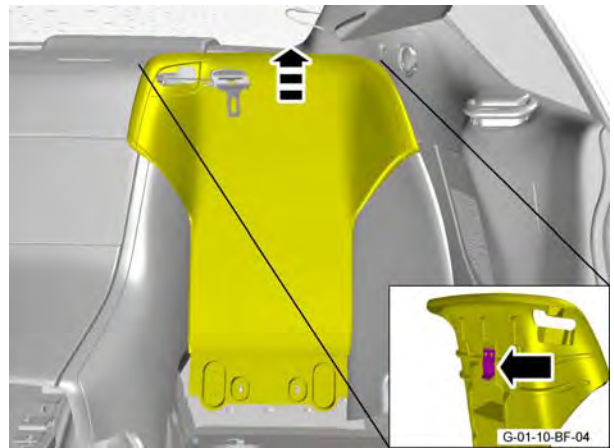
3. Remove the seat belt bezel.



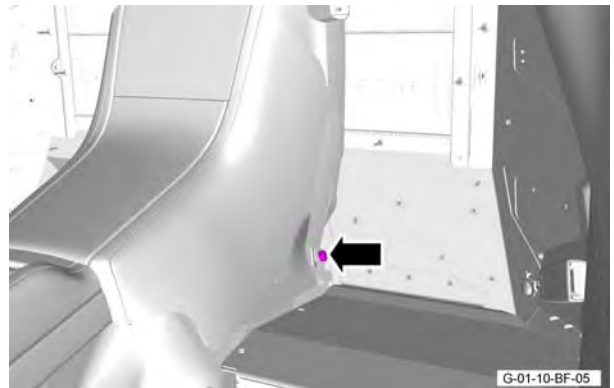
4. Remove the two screws that attach the seat back to the body.



5. Release the rear seat back from the alignment bracket.



6. Remove the bolt that attaches the seat belt anchor to the body.



7. Remove the seat back.

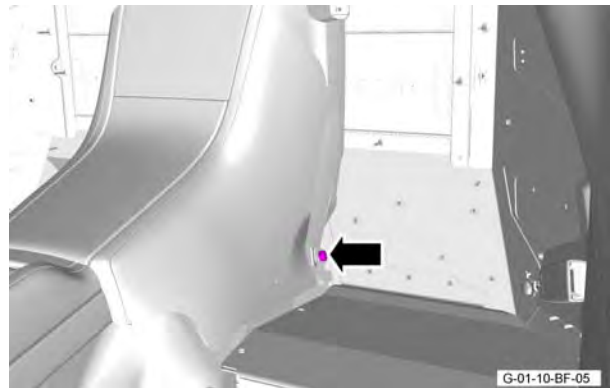


Install

1. Put the seat back into position.



2. Install and torque the bolt that attaches the seat belt anchor to the body to 35 Nm.



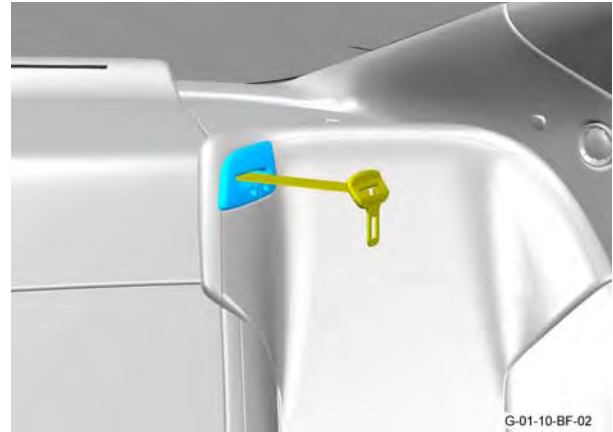
3. **Warning:** Make sure the seat back bracket is installed onto the bracket on the body. Install the rear seat back to the alignment bracket.



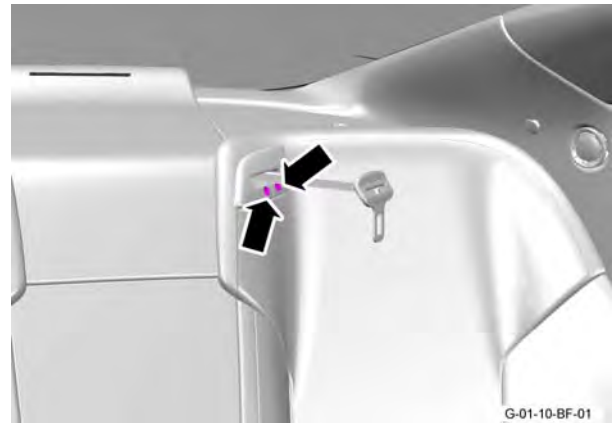
4. Install and torque the two screws that attach the seat back to the body to 5 Nm.



5. Install the seat belt bezel.



6. Install and tighten the two screws that attach the seat belt bezel to the seat back.






7. Install the lower cushion pad for the left side rear seat (01.10.BB - Lower Cushion Pad for the Left Side Rear Seat).

[\[Open Workshop Manual Procedure\]](#)

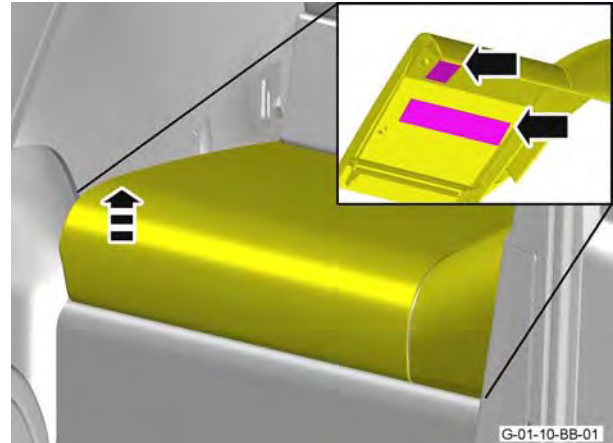
Published date: 2011-05-31 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.10.BG Left Side Rear Seat Cushion (Remove and Install New Part)**

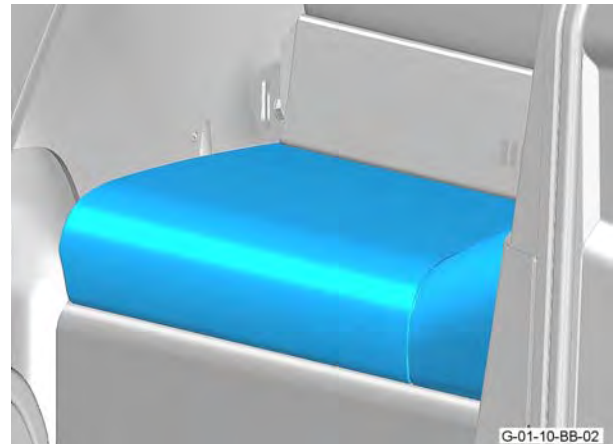
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

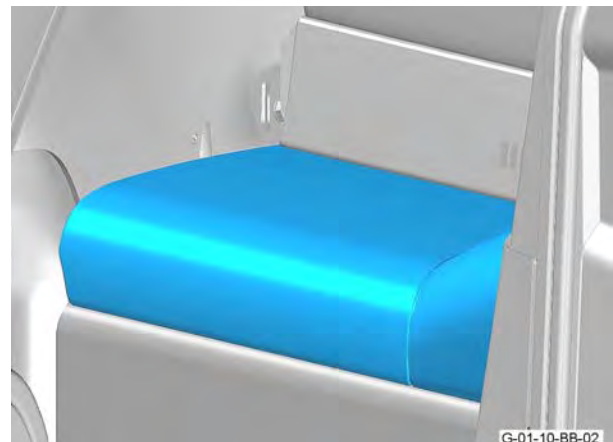
1. Operate the front seat to its fully forward position.
2. Release the rear seat cushion from the two strips of Velcro that attach it to the body.



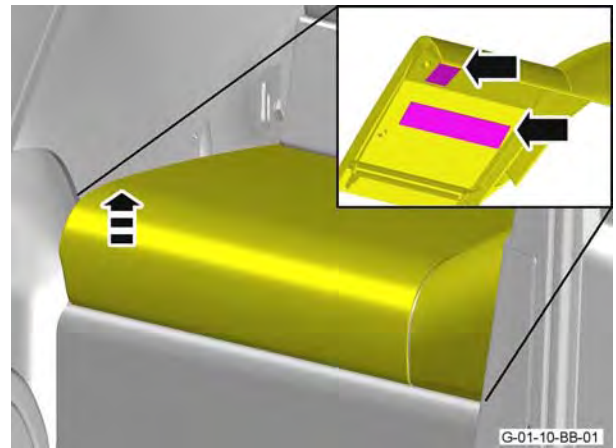
3. Remove the rear seat cushion.

*Install*

1. Put the rear seat cushion into position.






2. Install the rear seat cushion to the two strips of Velcro that attach it to the body.



3. Operate the front seat to its initial position.

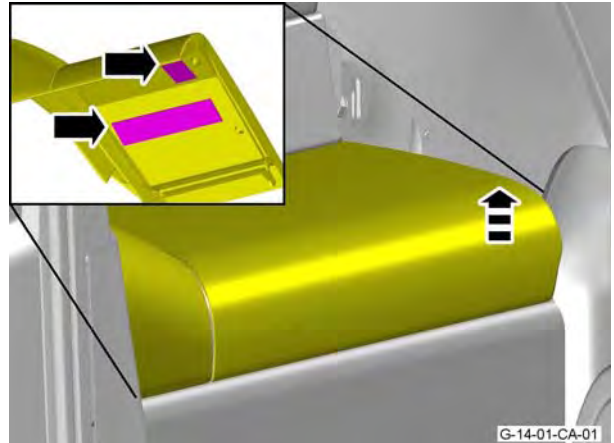
Published date: 2011-05-31 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.10.BH Right Side Rear Seat Cushion (Remove and Install New Part)**

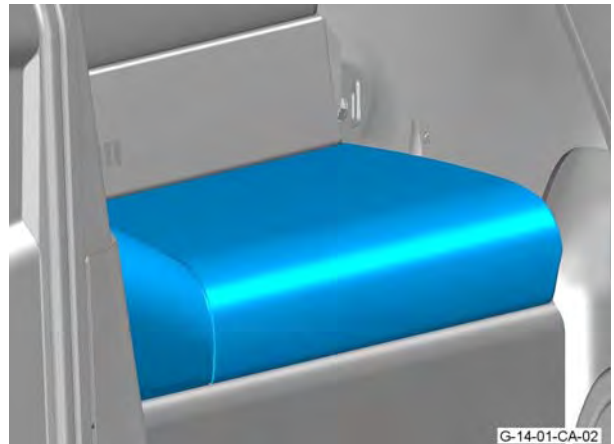
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

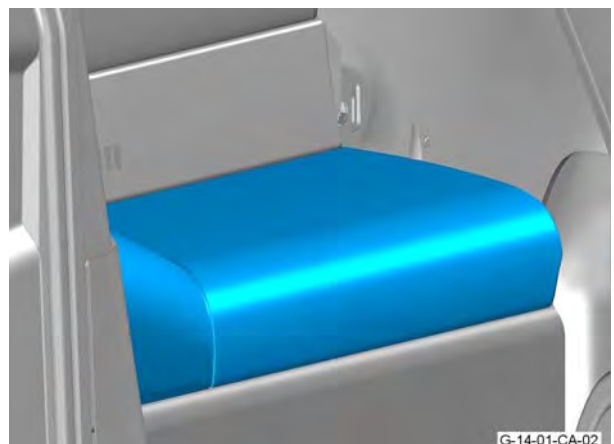
1. Operate the front seat to its fully forward position.
2. Release the rear seat cushion from the two strips of Velcro that attach it to the body.



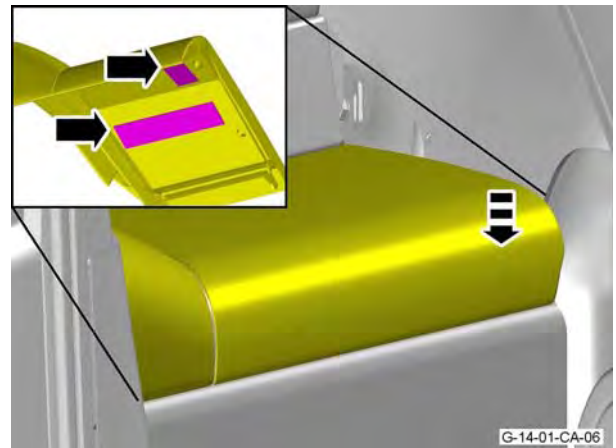
3. Remove the rear seat cushion.

*Install*

1. Put the rear seat cushion into position.






2. Install the rear seat cushion to the two strips of Velcro that attach it to the body.



3. Operate the front seat to its initial position.

Published date: 2011-05-31 Procedure last changed: 2015-06-25 16:39:17

Small Normal Large**01.12.BV Driver's Side Inner Top Instrument Panel (IP) Assembly - LHD (Remove and Install New Part)**

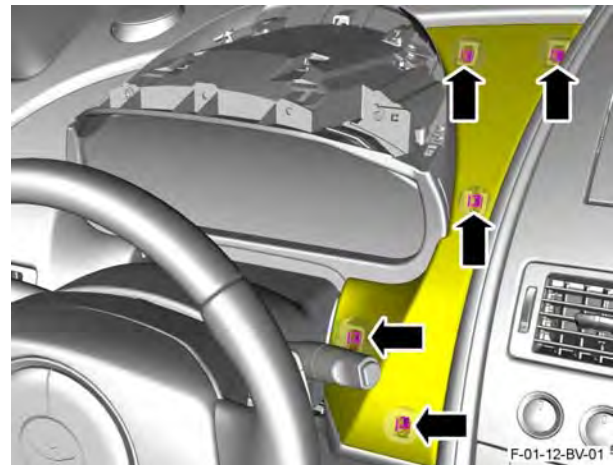
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

1. Remove the hood assembly for the Driver Information Module (DIM) (01.12.BZ - Hood Assembly for the Driver Information Module (DIM) - LHD).

[\[Open Workshop Manual Procedure\]](#)

2. Release the five clips that attach the driver's side inner top Instrument Panel (IP) assembly to the IP.



3. Remove the driver's side inner top IP assembly.

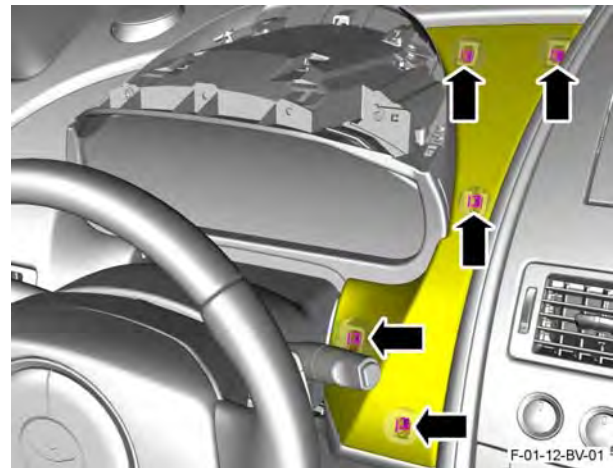


Install

1. Install the driver's side inner top IP assembly.



2. Install the five clips that attach the driver's side inner top IP assembly to the IP.






3. Install the hood assembly for the DIM (01.12.BZ - Hood Assembly for the Driver Information Module (DIM) - LHD).

[\[Open Workshop Manual Procedure\]](#)

Published date: 2013-05-29 Procedure last changed: 2015-06-25 16:39:17

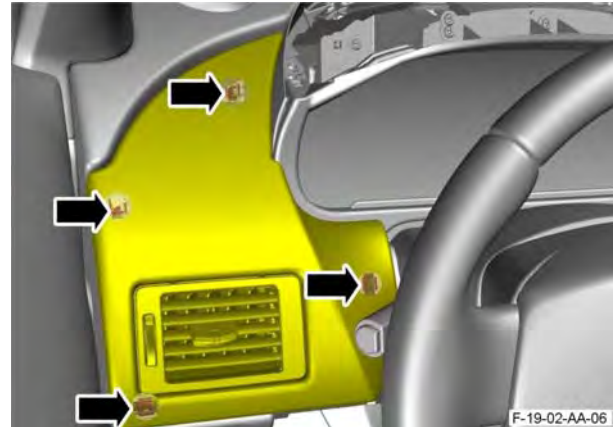
Small **Normal** **Large**

01.12.BW Driver's Side Outer Top Instrument Panel (IP) Assembly - LHD (Remove and Install New Part)

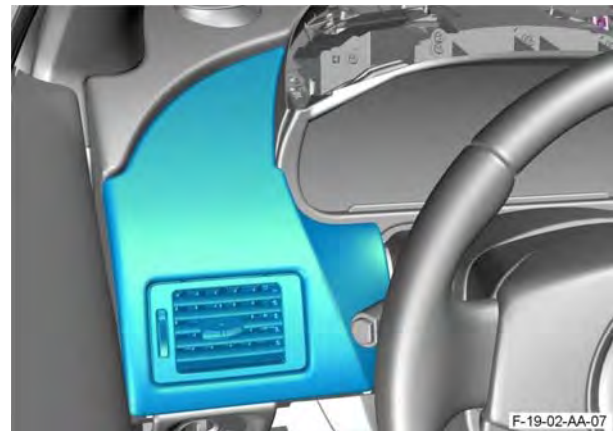
-  WSM Data
-  Included Procedures
-  Is Used In


Removal

1. Remove the hood assembly for the Driver Information Module (01.12.BZ - Hood Assembly for the Driver Information Module (DIM) - LHD).
[Open Workshop Manual Procedure]
2. Release the driver's side outer top Instrument Panel (IP) assembly from the four clips that attach it to the IP.

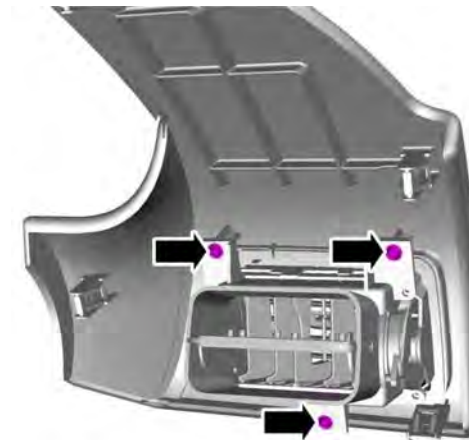


3. Remove the driver's side outer top IP assembly.



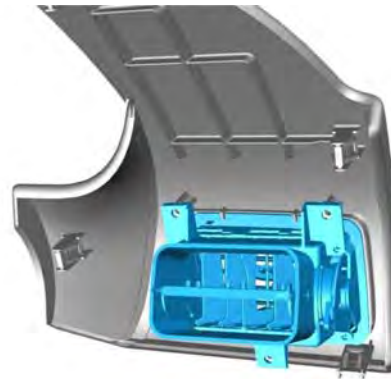
4.  **Note:** If removal of the driver's side outer top IP assembly is to give access only, do not do the steps that follow.

Remove the three Torx screws that attach the driver's side ventilator outlet facia to the driver's side outer top IP assembly.



F-12-01-CF-01

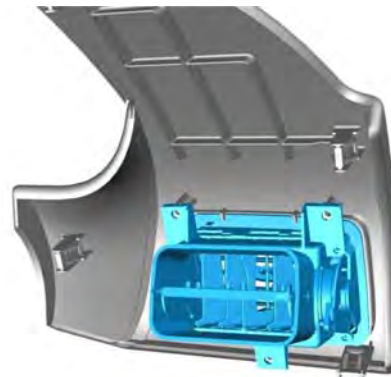
5. Remove the driver's side ventilator outlet facia.



F-12-01-CF-02

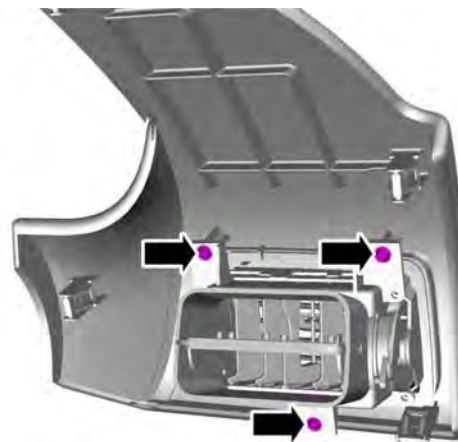
Install

1. Install the driver's side ventilator outlet facia.



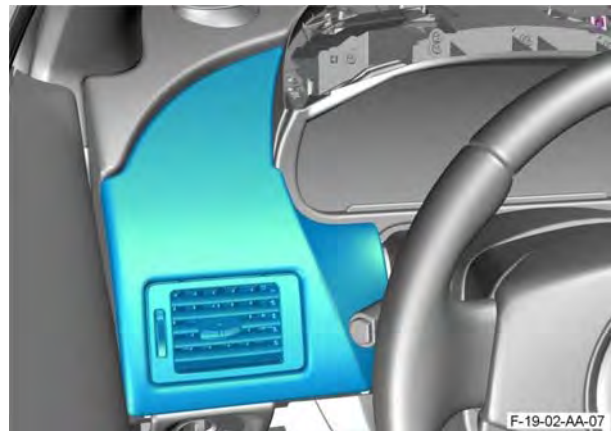
F-12-01-CF-02

2. Install and tighten the three Torx screws that attach the driver's side ventilator outlet facia to the driver's side outer top IP assembly.

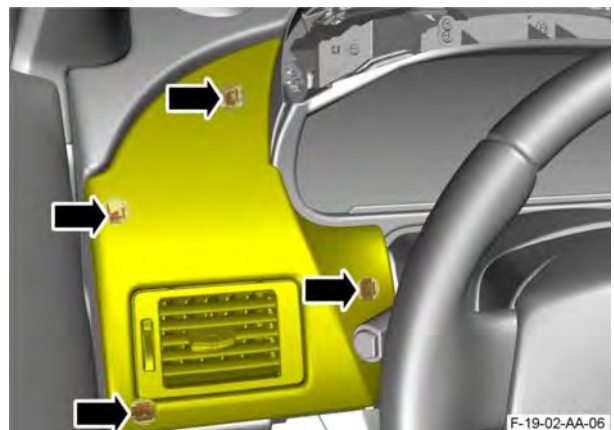


F-12-01-CF-01

3. Install the driver's side outer top IP assembly.



4. Install the driver's side outer top IP assembly to the four clips that attach it to the IP.






5. Install the hood assembly for the DIM (01.12.BZ - Hood Assembly for the Driver Information Module (DIM) - LHD).

[\[Open Workshop Manual Procedure\]](#)

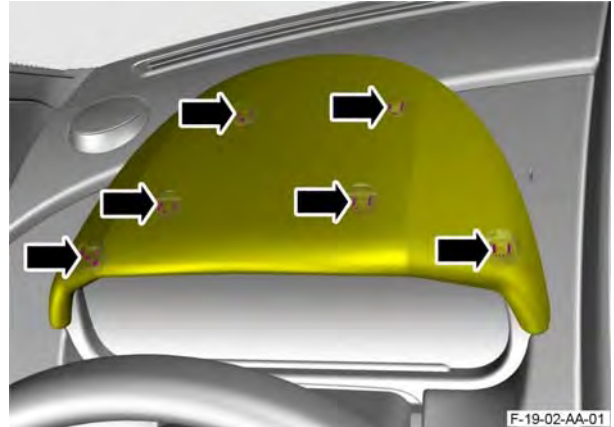
Published date: 2013-05-29 Procedure last changed: 2015-06-25 16:39:17

Small Normal Large**01.12.BZ Hood Assembly for the Driver Information Module (DIM) - LHD (Remove and Install New Part)**

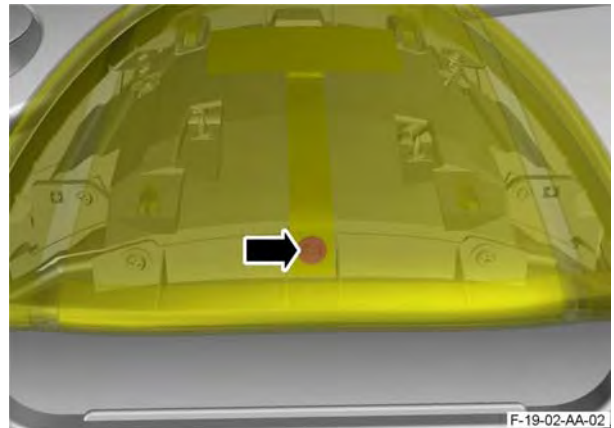
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

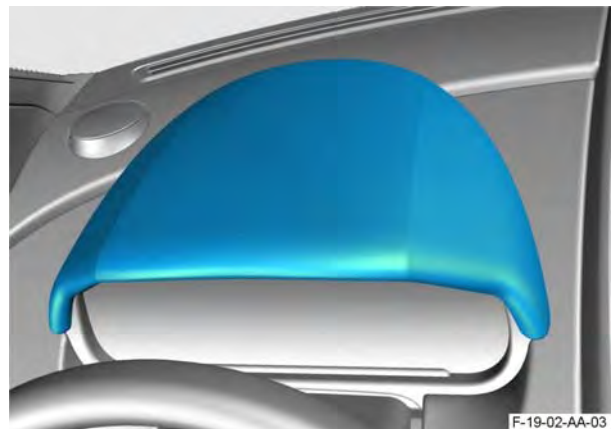
1. Release the six clips that attach the hood assembly for the Driver Information Module (DIM) to the Instrument Panel (IP).



2. Remove the screw that attaches the hood assembly for the DIM to the IP.

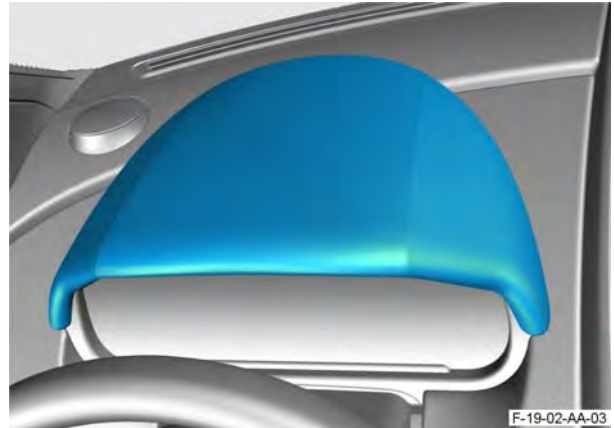


3. Remove the hood assembly for the DIM.

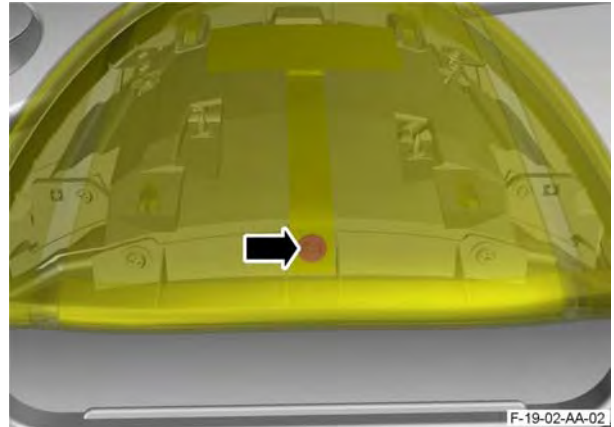


Install

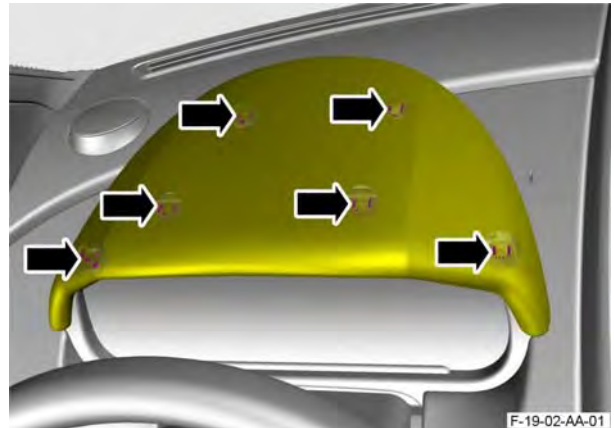
1. Install the hood assembly for the DIM.



2. Install and tighten the screw that attaches the hood assembly for the DIM to the IP.






3. Install the six clips that attach the hood assembly for the DIM to the IP.



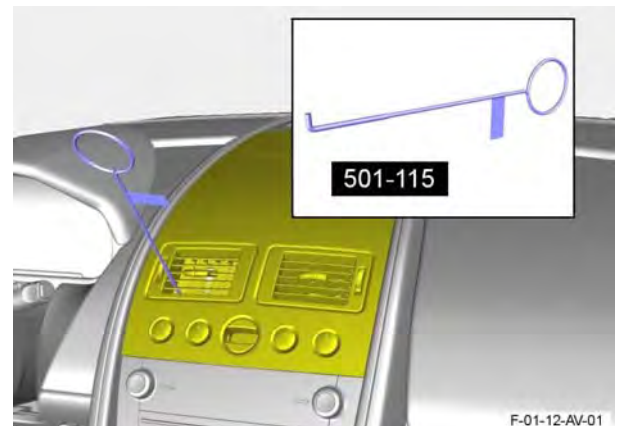
Published date: 2013-05-29 Procedure last changed: 2015-06-25 16:39:17


Small **Normal** **Large****01.12.CU Veneer Bezel for the Instrument Panel (IP) (Remove for Access and Install)**

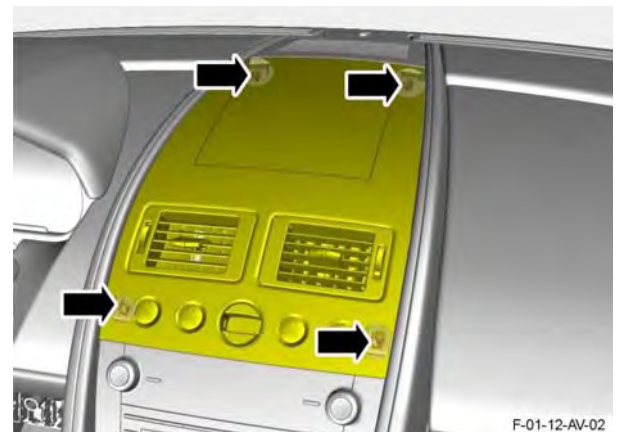
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

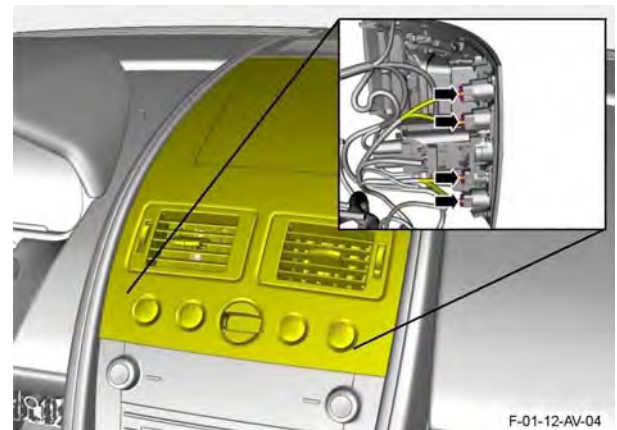
1. Do the battery disconnection procedure (14.01.CA - Battery Disconnection and Connection Procedure).
[\[Open Workshop Manual Procedure\]](#)
2. Use the special tool to release the veneer bezel from the Instrument Panel (IP).



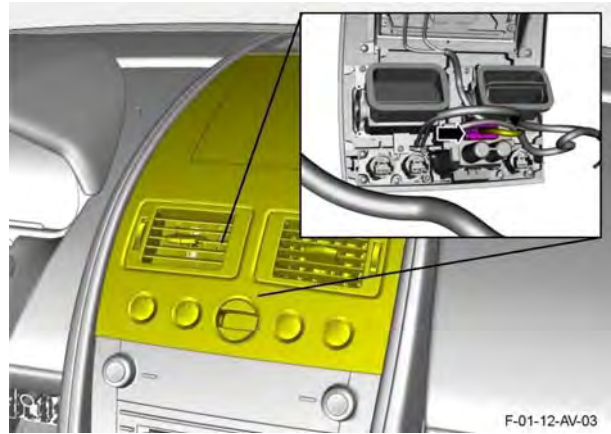
3.  **Caution: Make sure that you carefully release the IP veneer bezel. This will help to prevent damage to the component.**
Release the veneer bezel from the four clips that attach it to the IP.



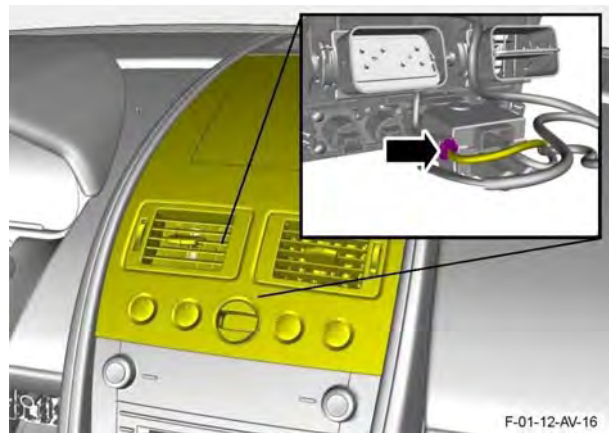
4. Disconnect the electrical connectors from each of the four transmission control switches.



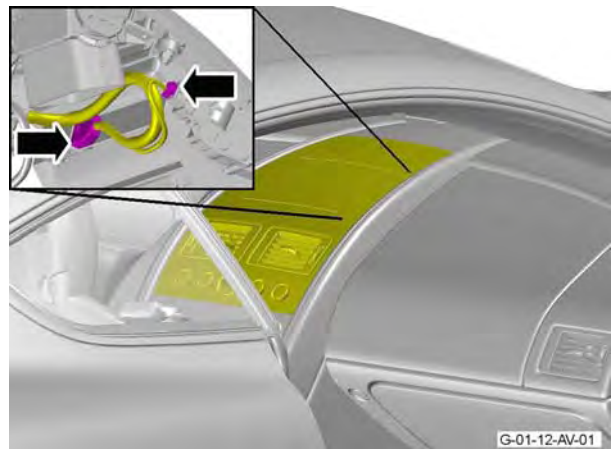
- 5. Disconnect the electrical connector from the ignition switch module.



- 6. Disconnect the electrical connector from the ignition switch module.



- 7. Disconnect the two electrical connectors from the navigation display screen.

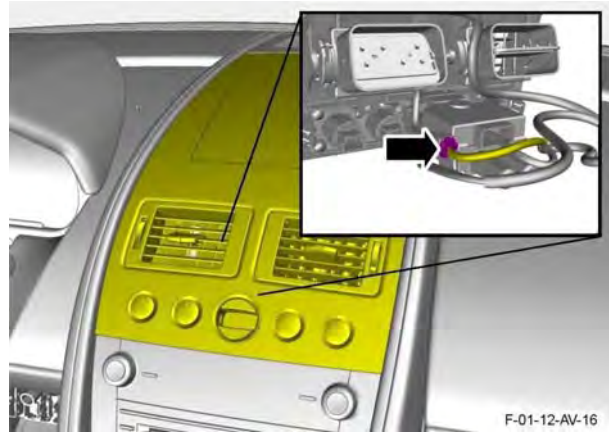
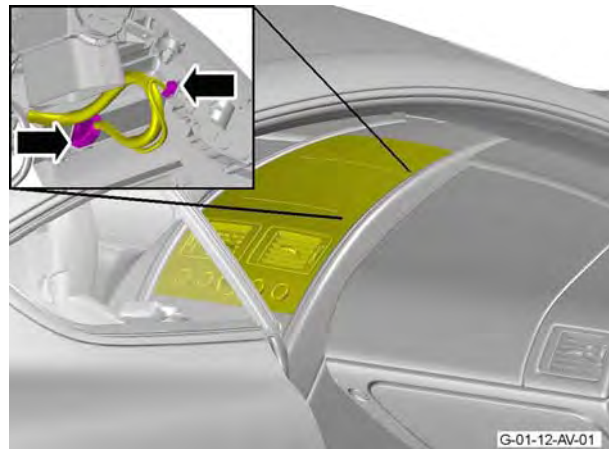


- 8. Remove the veneer bezel.

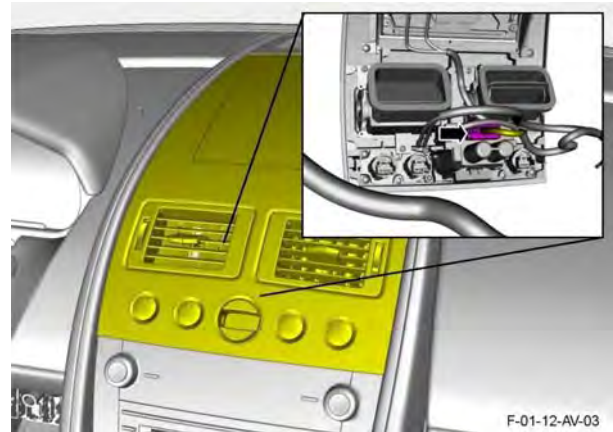


Install

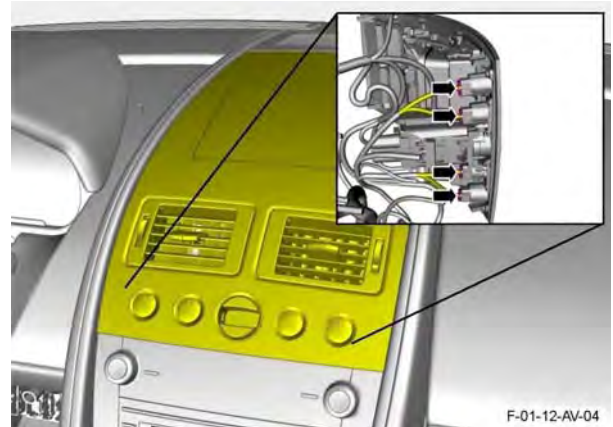
1. Put the veneer bezel into position.
2. Connect the two electrical connectors to the navigation display screen.
3. Connect the electrical connector to the ignition switch module.




4. Connect the electrical connector to the ignition switch module.

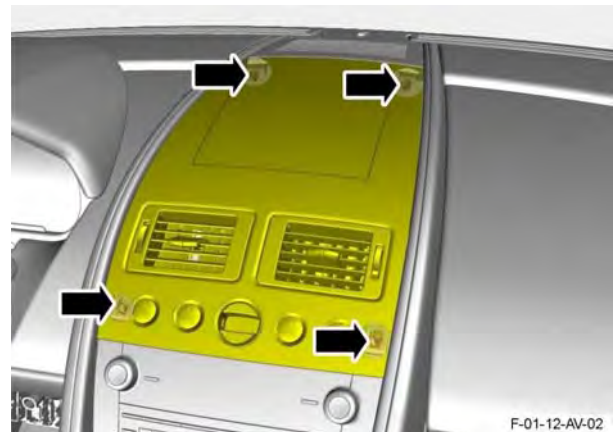


5. Connect the electrical connectors to each of the four transmission control switches.



6.  *Note: Make sure that the air vents align with the air ducts.*




Attach the veneer bezel with the four clips.



7. Do the battery connection procedure (14.01.CA - Battery Disconnection and Connection Procedure).
[\[Open Workshop Manual Procedure\]](#)

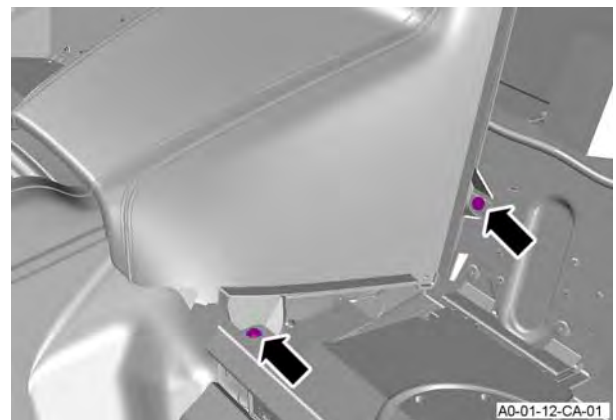
Published date: 2013-05-23 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.12.CW Rear Console Panel (2+0) (Remove and Install New Part)**

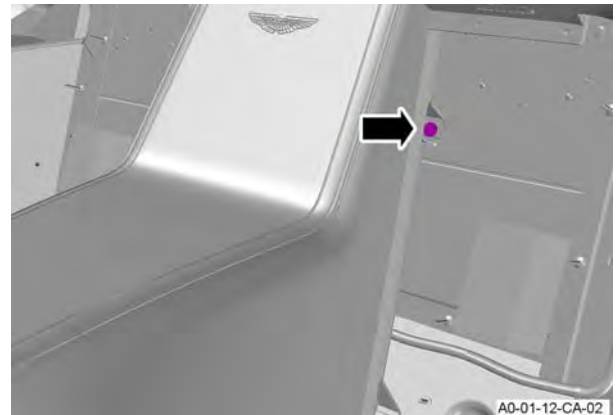
- ⊕  WSM Data
- ⊕  Included Procedures
- ⊕  Is Used In

Removal

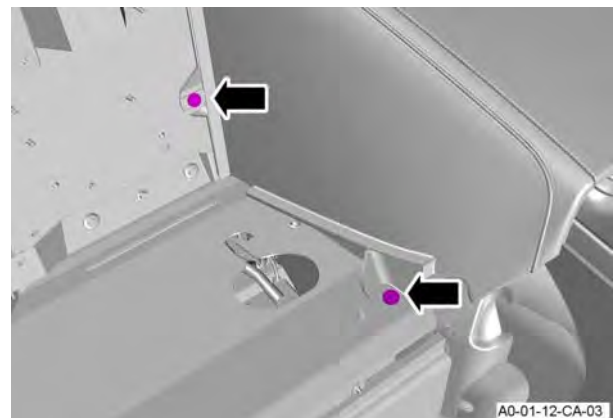
1. Remove the outer panel assembly for the right side bulkhead (01.05.EQ - Outer Panel Assembly for the Right Side Bulkhead).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the outer panel assembly for the left side bulkhead (01.05.EU - Outer Panel Assembly for the Left Side Bulkhead).
[\[Open Workshop Manual Procedure\]](#)
3. Remove the two screws that attach the rear console to the body.



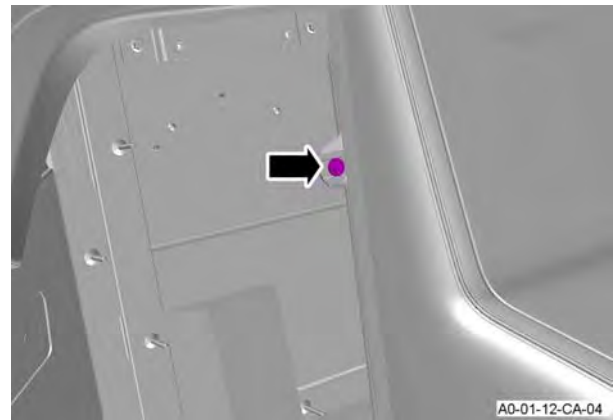
4. Remove the screw that attaches the rear console to the body.



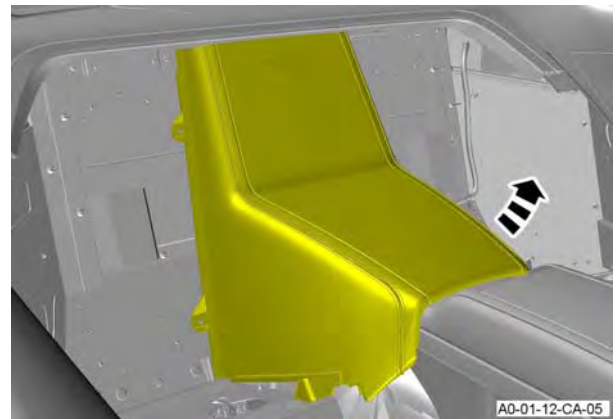
5. Remove the two screws that attach the rear console to the body.



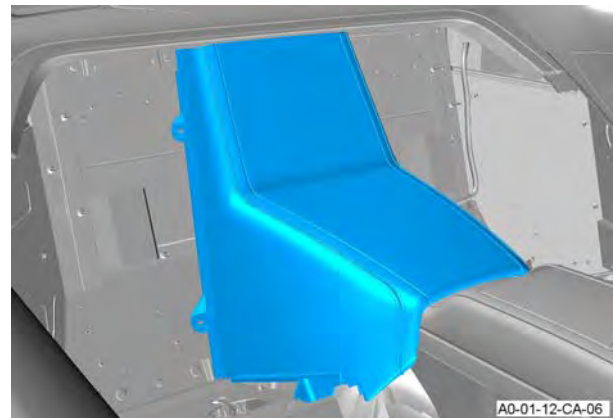
- Remove the screw that attaches the rear console to the body.



- Release the rear console from the body.

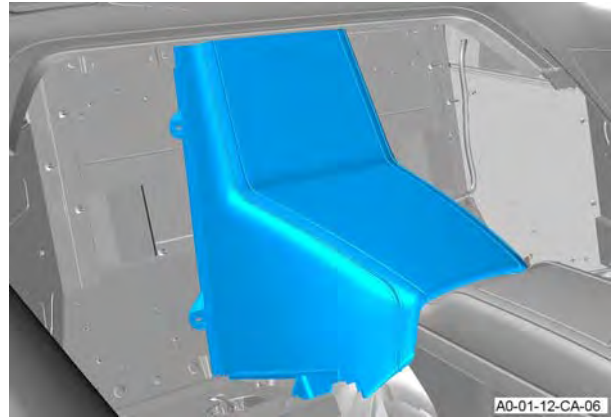


- Remove the rear console.

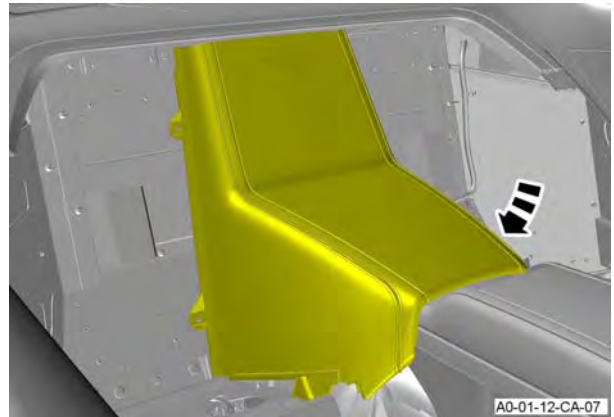


Install

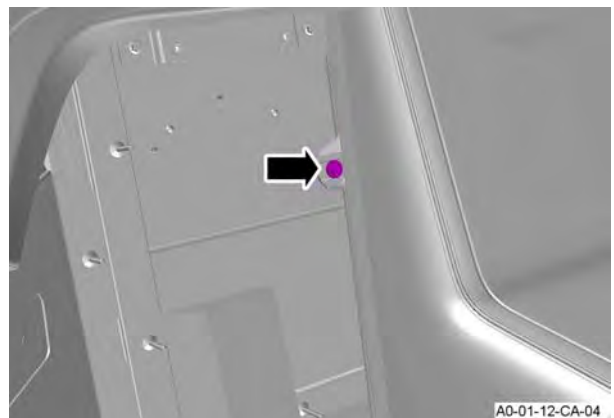
1. Put the rear console into position.



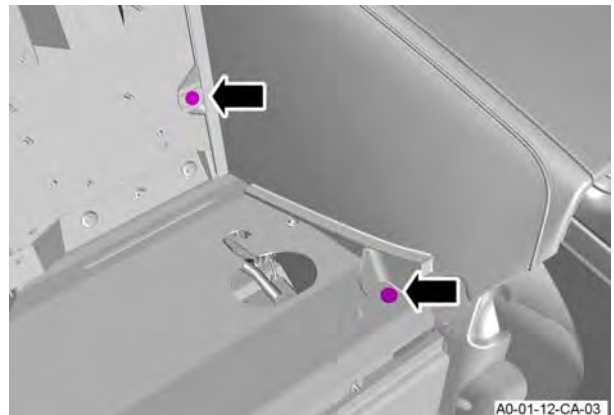
2. Install the rear console to the body.



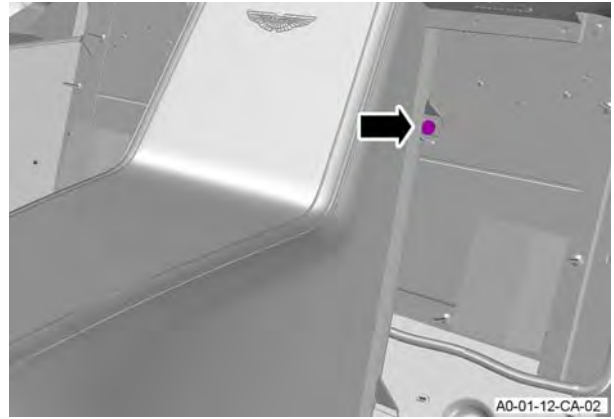
3. Install and tighten the screw that attaches the rear console to the body.



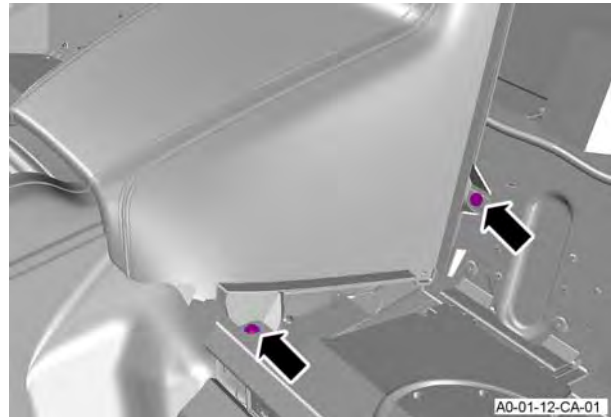
4. Install and tighten the two screws that attach the rear console to the body.



5. Install and tighten the screw that attaches the rear console to the body.






6. Install and tighten the two screws that attach the rear console to the body.



7. Install the outer panel assembly for the left side bulkhead (01.05.EU - Outer Panel Assembly for the Left Side Bulkhead).
[\[Open Workshop Manual Procedure\]](#)
8. Install the outer panel assembly for the right side bulkhead (01.05.EQ - Outer Panel Assembly for the Right Side Bulkhead).
[\[Open Workshop Manual Procedure\]](#)

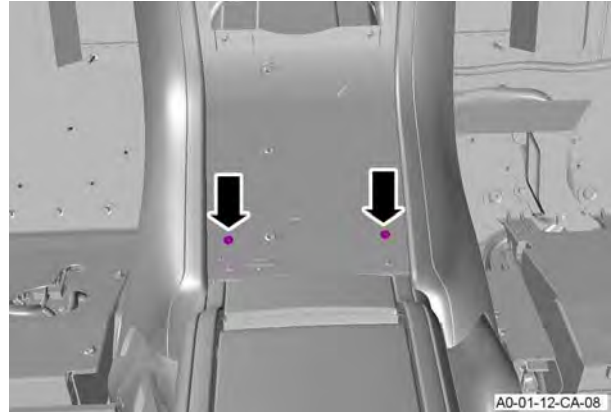
Published date: 2014-02-25 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.12.CX Rear Console Panel (2+2) (Remove and Install New Part)**

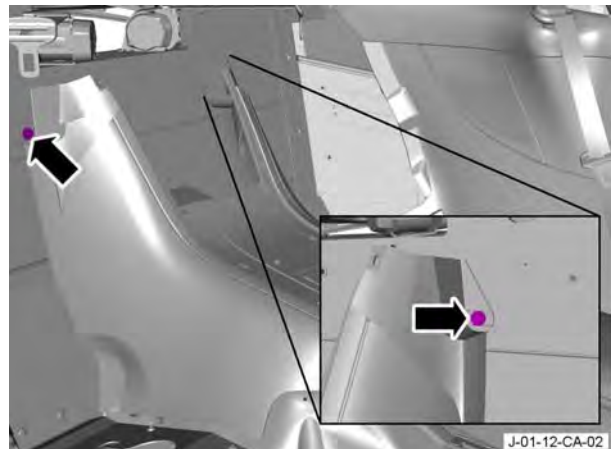
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

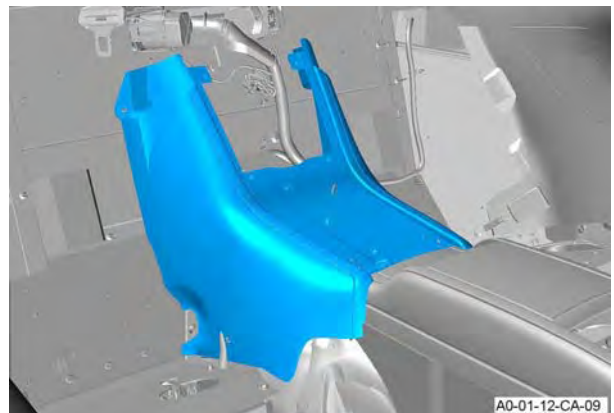
1. Remove the centre panel for the package tray (01.05.HT - Centre Trim Panel for the Package Tray).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the two screws that attach the rear console to the body.



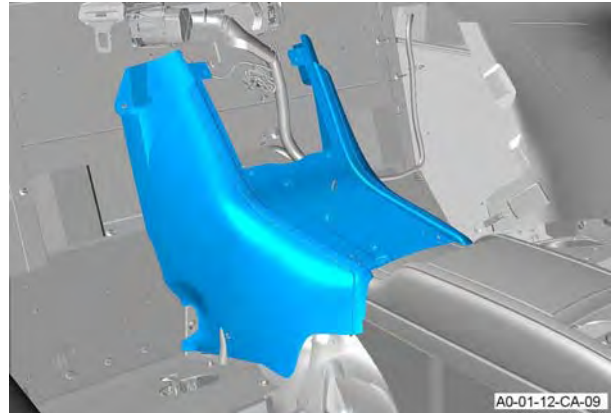
3. Remove the two screws that attach the rear console to the body.



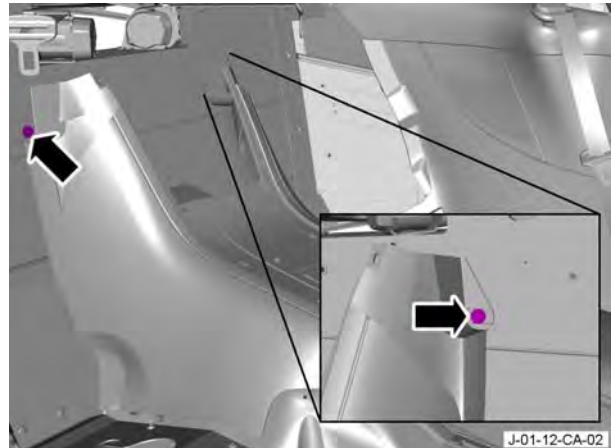
4. Remove the rear console.

*Install*

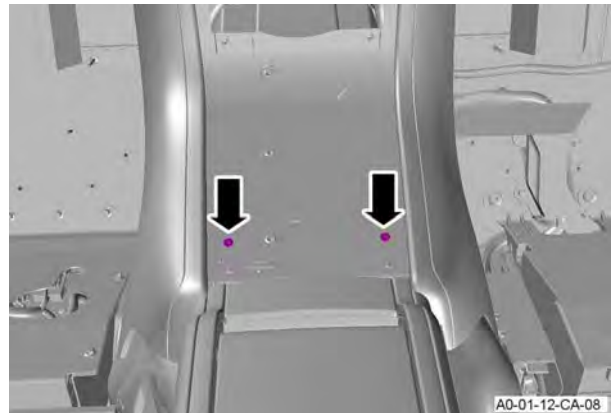
1. Install the rear console.



2. Install and tighten the two screws that attach the rear console to the body.



3. Install and tighten the two screws that attach the rear console to the body.






4. Install the centre panel for the package tray (01.05.HT - Centre Trim Panel for the Package Tray).



[\[Open Workshop Manual Procedure\]](#)

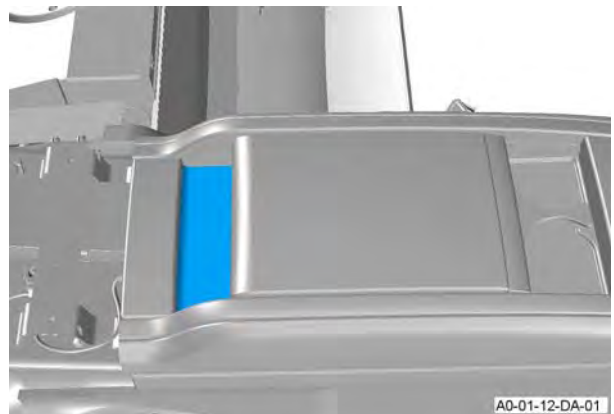
Published date: 2014-02-25 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.12.DA Armrest (Remove and Install New Part)**

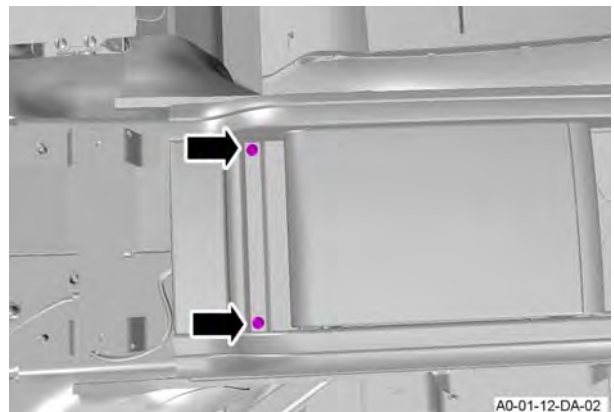
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

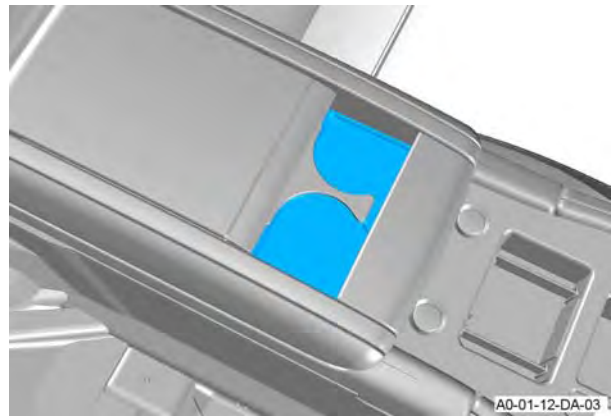
1.  *Note: The step that follows only applies to 2+0 vehicles.*
2. Remove the rear console (01.12.CW - Rear Console Panel (2+0)).
[\[Open Workshop Manual Procedure\]](#)
3.  *Note: The step that follows only applies to 2+2 vehicles.*
4. Remove the rear console (01.12.CX - Rear Console Panel (2+2)).
[\[Open Workshop Manual Procedure\]](#)
5. Remove the trim panel to get access to the screws.




6. Remove the two screws that attach the armrest to the centre console.

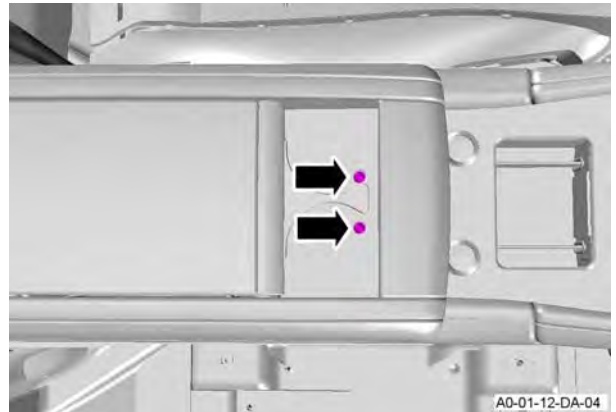


- Remove the rubber mat for the cup holder from the armrest.

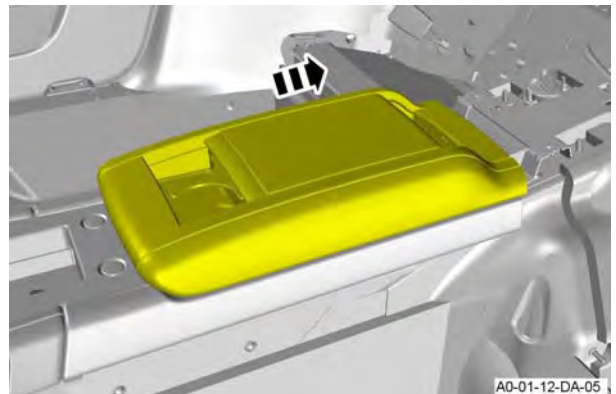


-  **Caution: Do not loosen the screws too much. If you do the bracket and washers will fall from the armrest.**

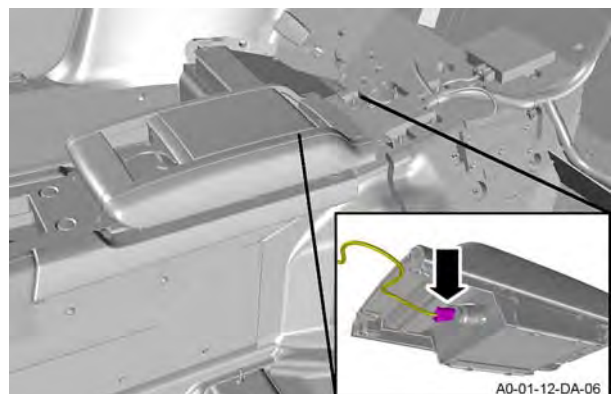
Loosen the two Torx screws that attach the front of the armrest to the centre console.



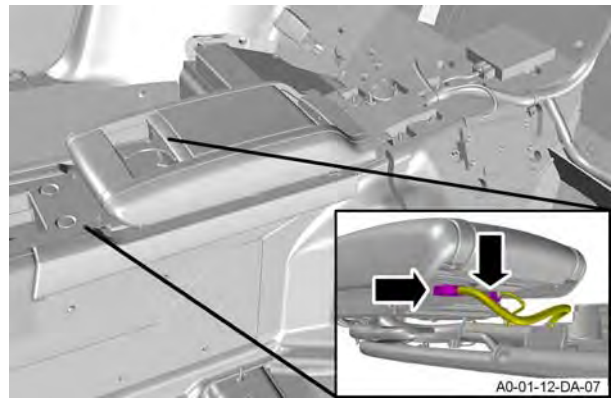
- Move the armrest to get access to the electrical connectors.



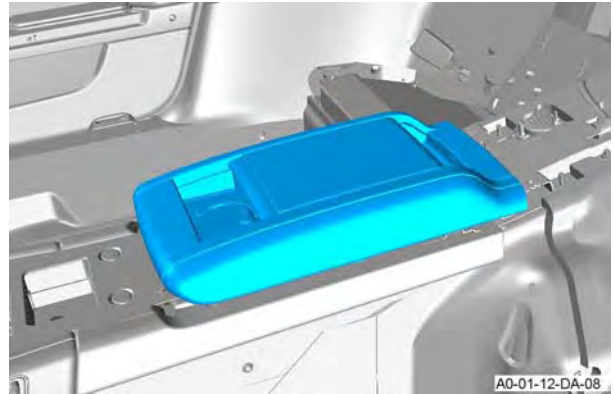
- Disconnect the electrical connector from the power point on the armrest.



11. Disconnect the electrical connector from the auxiliary input socket and the user interface panel.

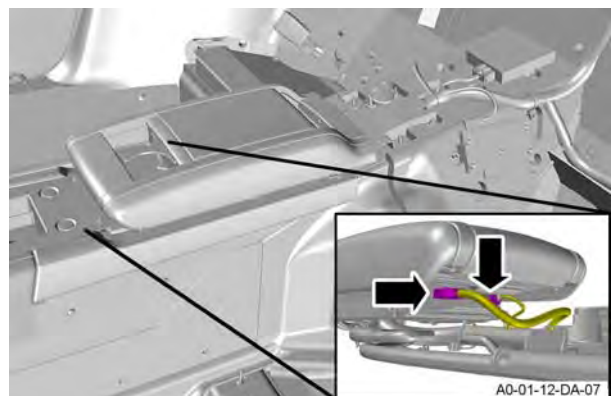
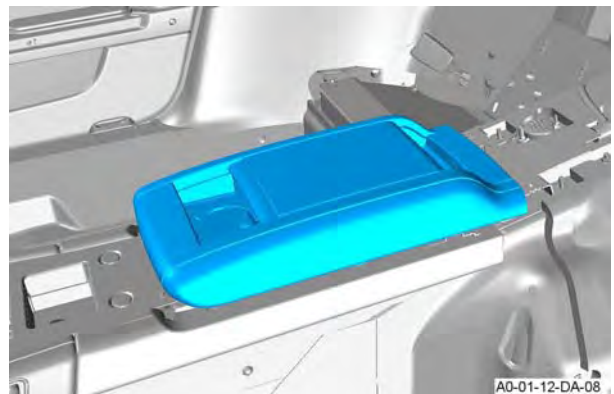


12. Remove the armrest.

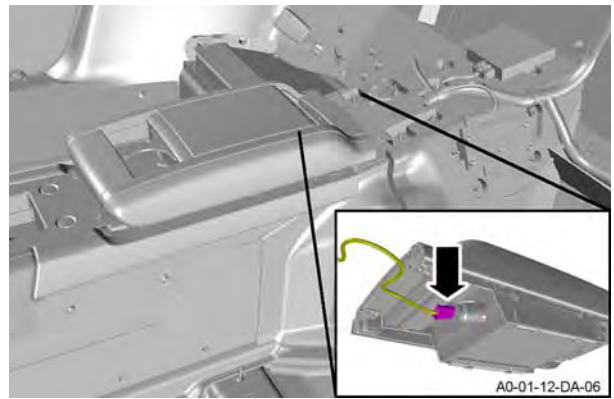


Install

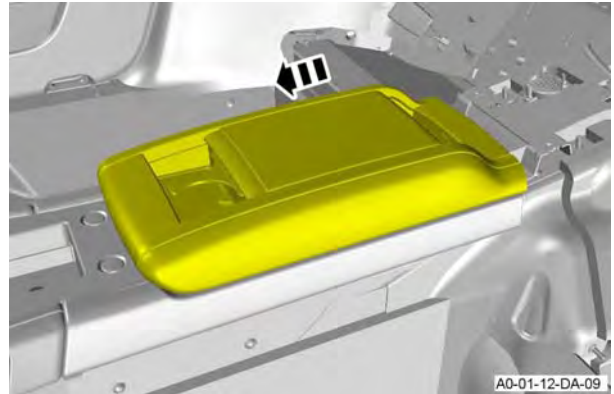
1. Put the armrest into position.
2. Connect the electrical connector to the auxiliary input socket and the user interface panel.



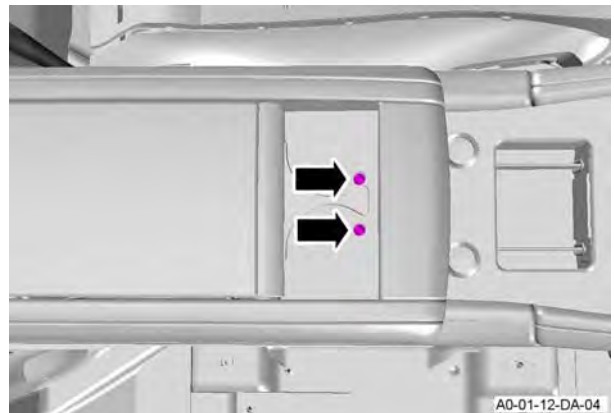
3. Connect the electrical connector to the power point on the armrest.



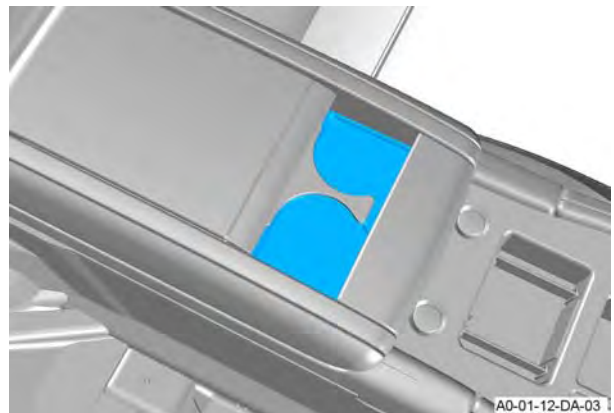
4. Move the armrest into the correct position.



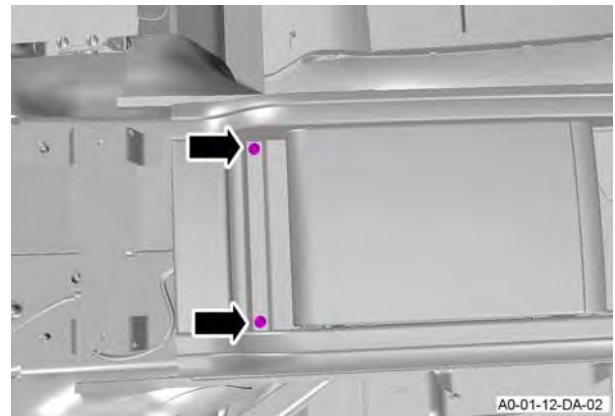
5. Tighten the two Torx screws that attach the front of the armrest to the centre console.



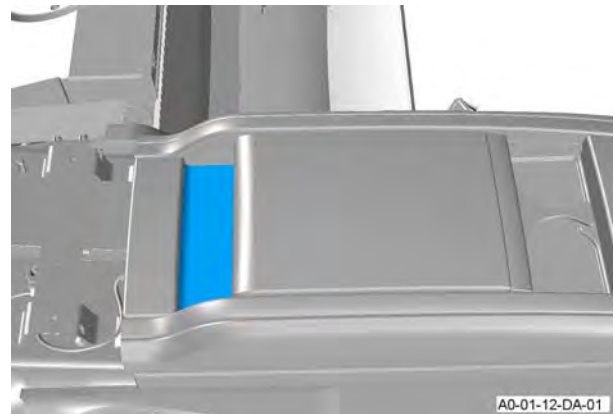
6. Install the rubber mat for the cup holder to the armrest.





7. Install and tighten the two screws that attach the armrest to the centre console.






8. Install the trim panel into the correct position.



9.  *Note: The step that follows only applies to 2+2 vehicles.*
10. Install the rear console (01.12.CX - Rear Console Panel (2+2)).
[\[Open Workshop Manual Procedure\]](#)
11.  *Note: The step that follows only applies to 2+0 vehicles.*
12. Install the rear console (01.12.CW - Rear Console Panel (2+0)).
[\[Open Workshop Manual Procedure\]](#)

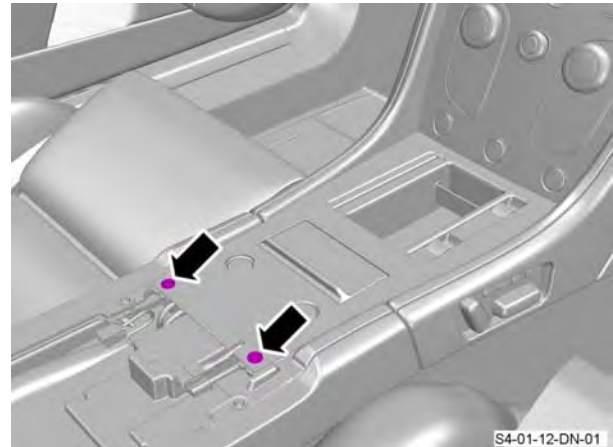
Published date: 2011-05-03 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.12.DN Centre Console Panel (Remove for Access and Install)**

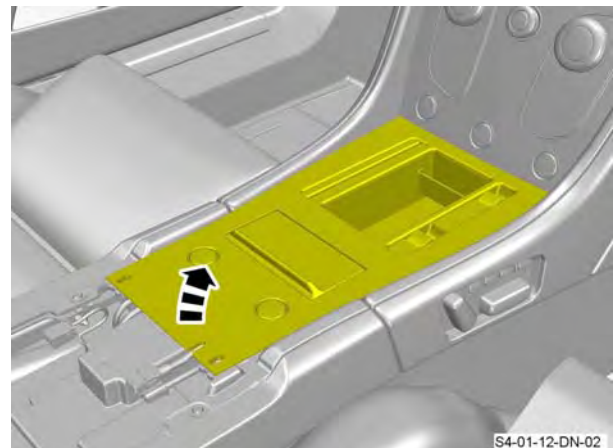
-  WSM Data
-  Included Procedures
-  Is Used In

Remove for Access

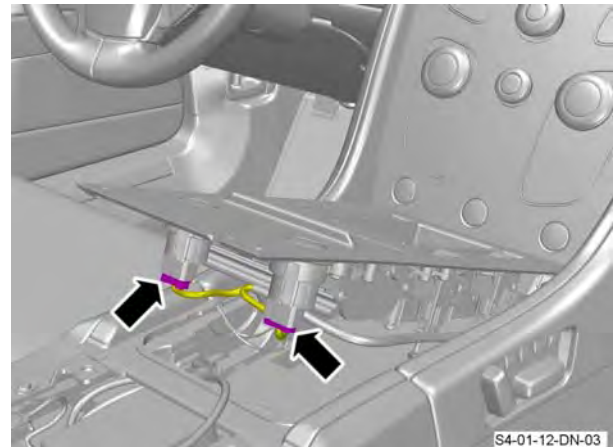
1. Remove the armrest (01.12.DA - Armrest).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the two screws that attach the centre console panel to the centre console.



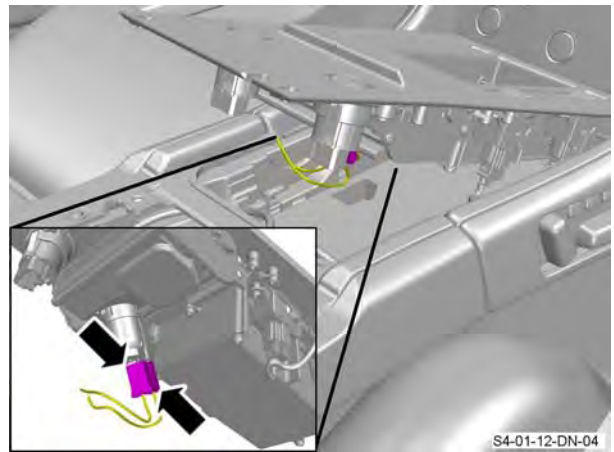
3. Move the centre console panel to get access to the four electrical connectors.



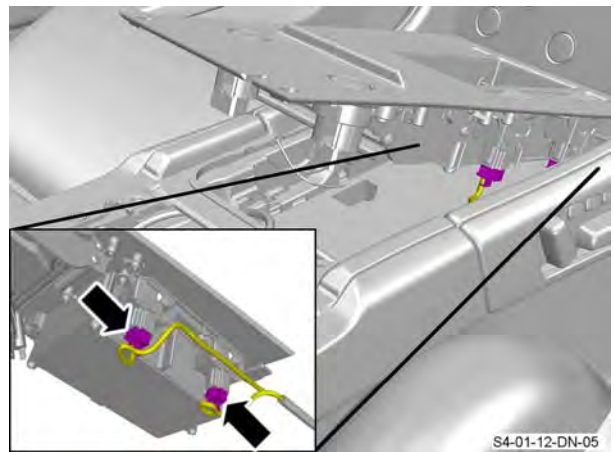
4. Disconnect the two electrical connectors from the switch for the parking distance control and the switch for the rear fog lamp.



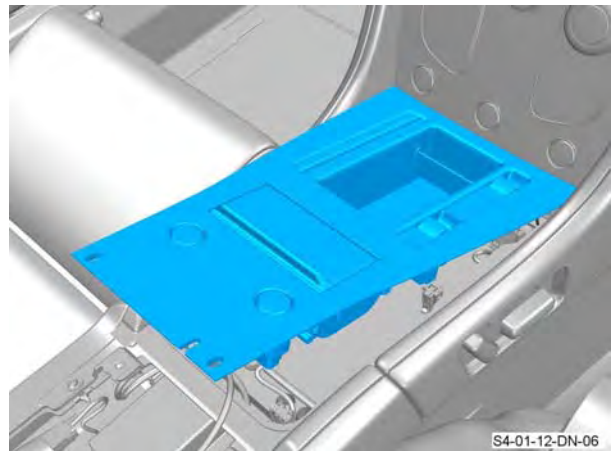
5. Disconnect the electrical connectors from the power outlet.



6. Disconnect the electrical connectors from the switch for the boot release and the master lock switch.

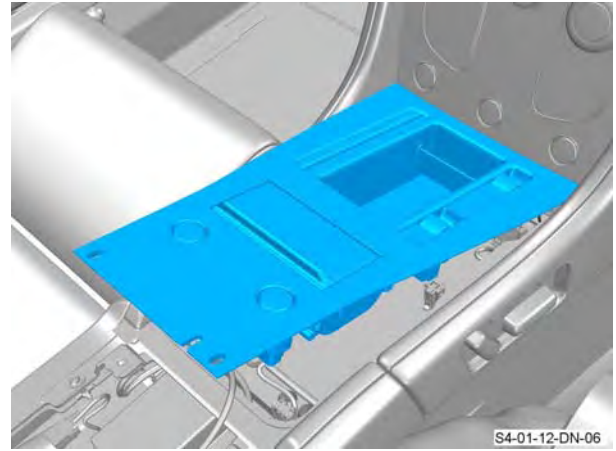


7. Remove the centre console panel.

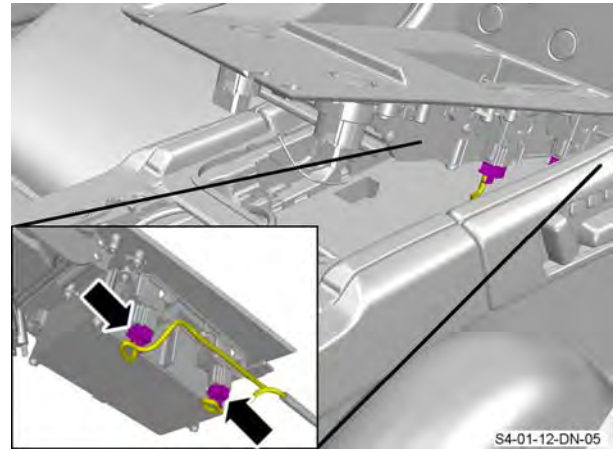


Install

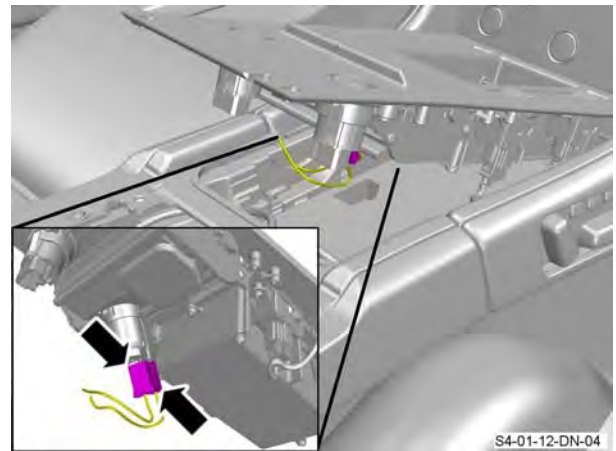
1. Put the centre console panel into position.



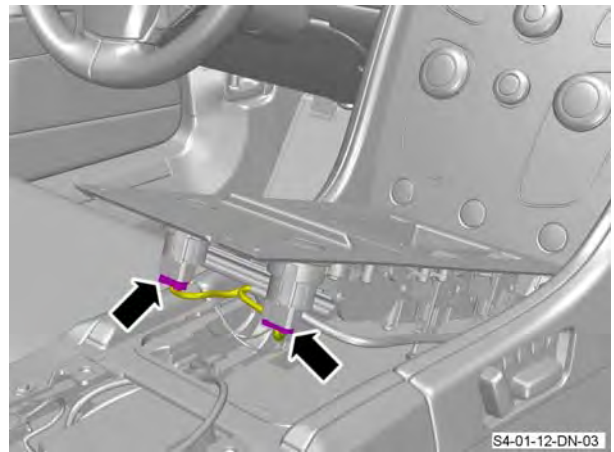
2. Connect the electrical connectors to the switch for the boot release and the master lock switch.



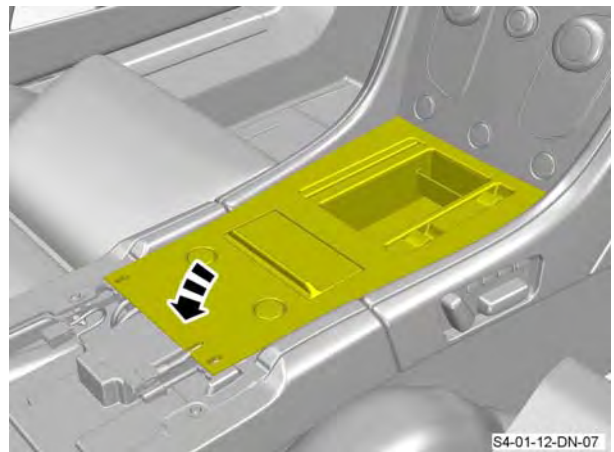
3. Connect the electrical connectors to the power outlet.



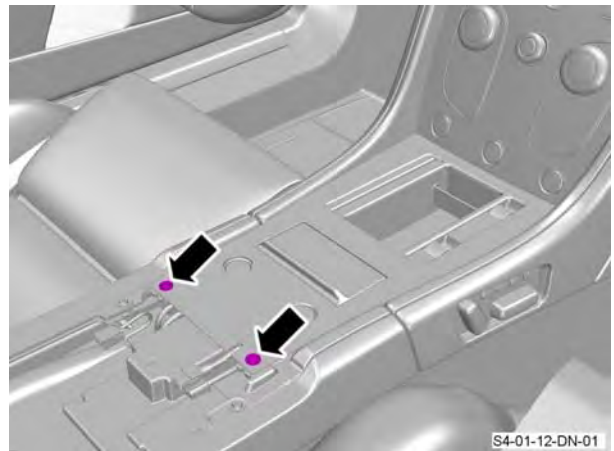
4. Connect the electrical connectors to the switch for the parking distance control and the rear fog lamp switch.



5. Put the centre console panel into the correct position.






6. Install and tighten the two screws that attach the centre console panel to the centre console.



7. Remove the armrest (01.12.DA - Armrest).
[Open Workshop Manual Procedure]

Published date: 2012-11-19 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.14.DD Handle - Emergency Release Trunk (Remove and Install New Part)**

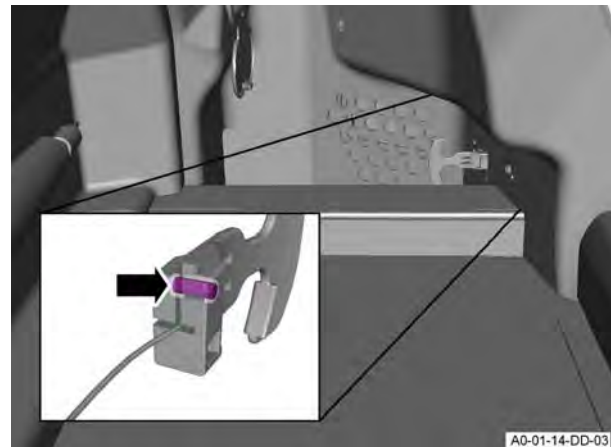
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

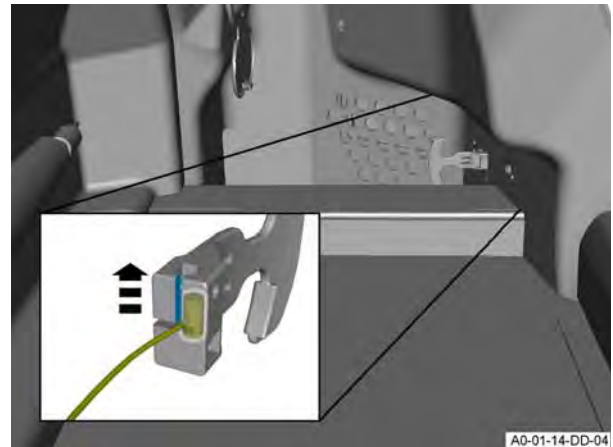
1. Release the handle from the clip that attaches it to the right side corner carpet.



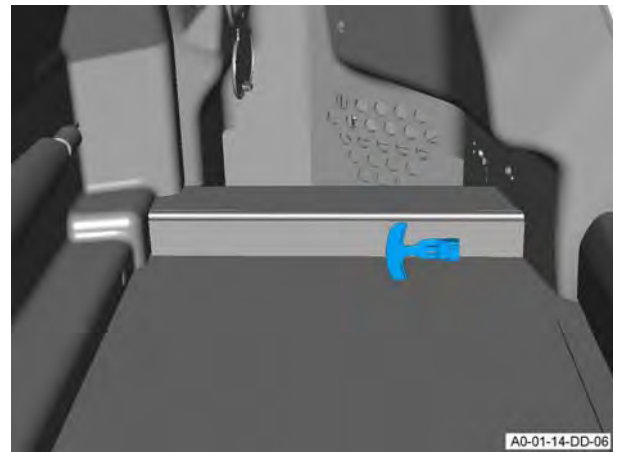
2. Remove the pin from the handle.



3. Release the cable from the handle.

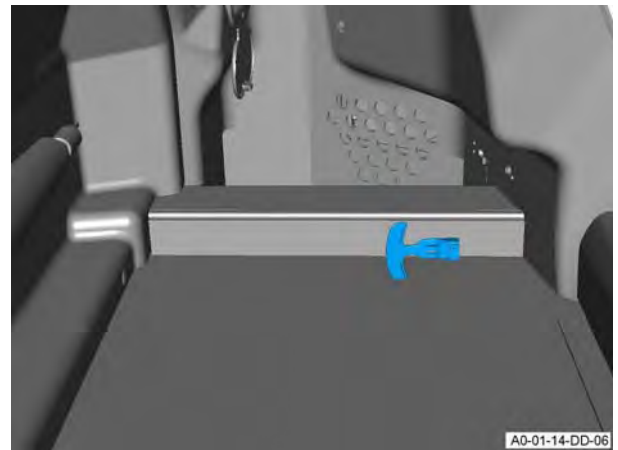


4. Remove the handle.

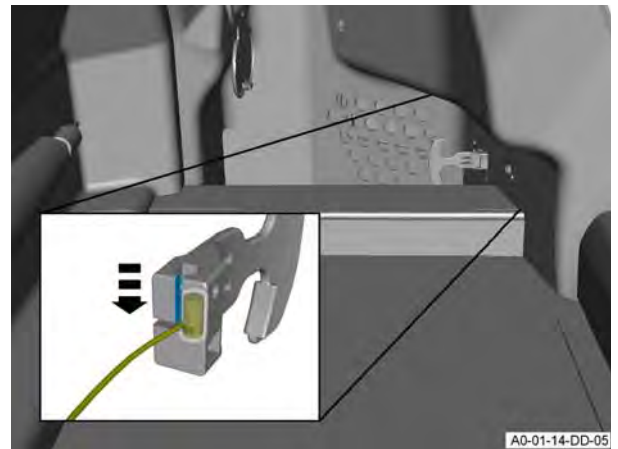


Install

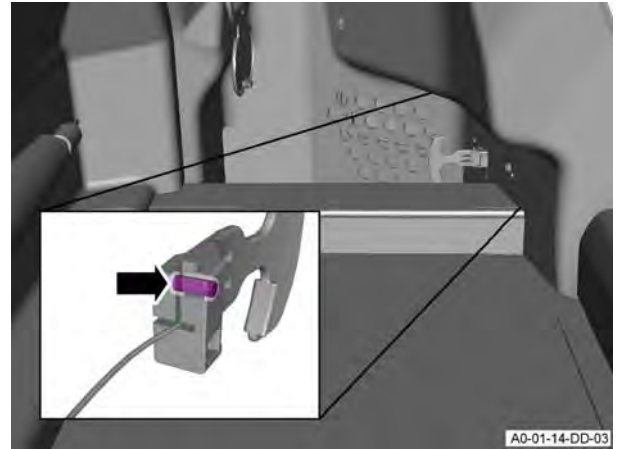
1. Put the handle into position.



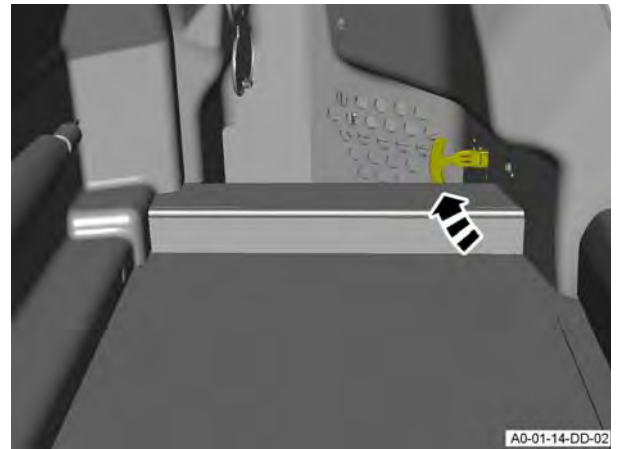
2. Install the cable into the handle.



3. Install the pin into the handle.






4. Install the handle into the clip that attaches it to the right side corner carpet.



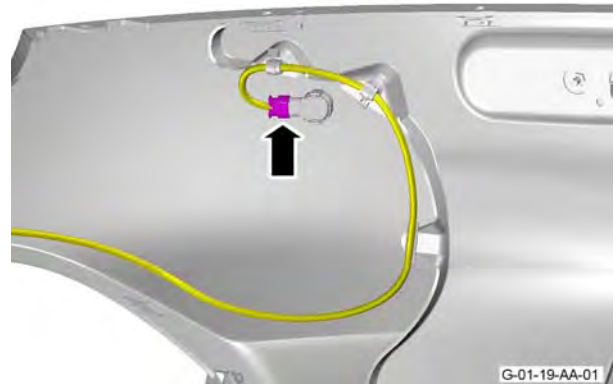
Published date: 2012-11-28 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.19.AA Front Bumper Cover (Remove and Install New Part)**

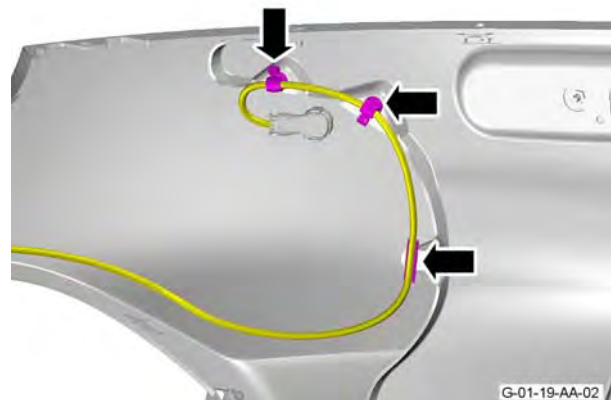
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

1. Remove the splitter for the front bumper cover (01.19.AM - Splitter for the Front Bumper Cover).
[\[Open Workshop Manual Procedure\]](#)
2. Disconnect the electrical connector from the right side outer parking aid sensor.



3. Release the wiring harness for the front bumper cover from the three clips that attach it to the front bumper cover.

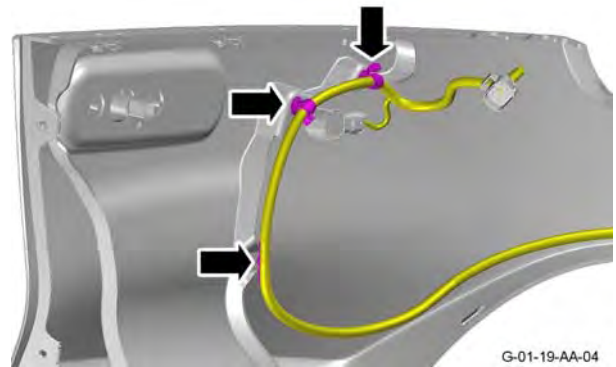


4. Disconnect the electrical connectors from the two front centre parking aid sensors.

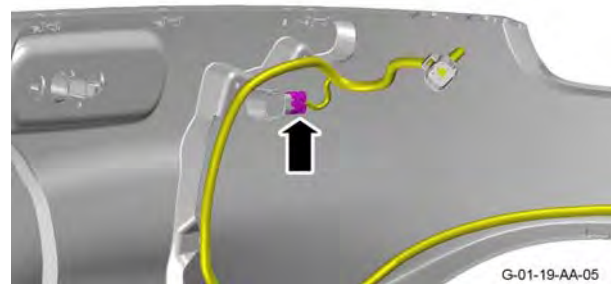


G-01-19-AA-03

5. Release the wiring harness for the front bumper cover from the three clips that attach it to the front bumper cover.



6. Disconnect the electrical connector from the left side outer parking aid sensor.

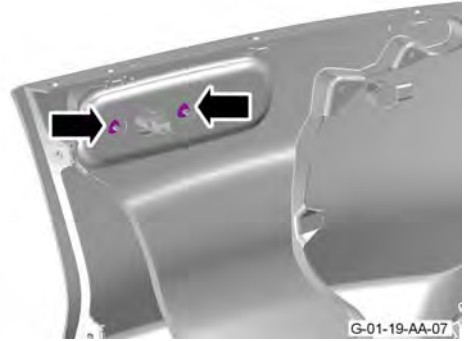


7. Remove the wiring harness for the front bumper cover.



8. **i** *Note: This step only applies to NAS vehicles.*

Remove the two nuts that attach the left side marker to the front bumper cover.



9. **i** *Note: This step only applies to NAS vehicles.*


Remove the left side marker.



10. **i** *Note: This step only applies to NAS vehicles.*

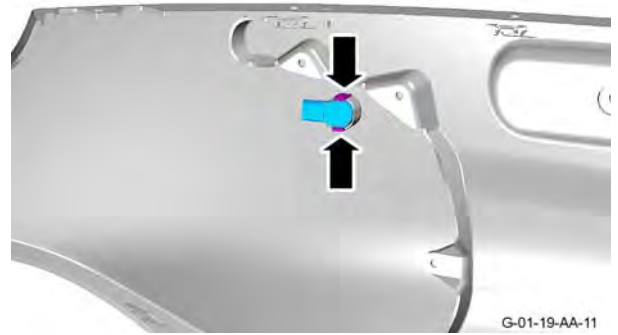
Remove the two nuts that attach the right side marker to the front bumper cover.



- 11.  *Note: This step only applies to NAS vehicles.*
Remove the right side marker.



- 12. Remove the right side outer parking aid sensor.

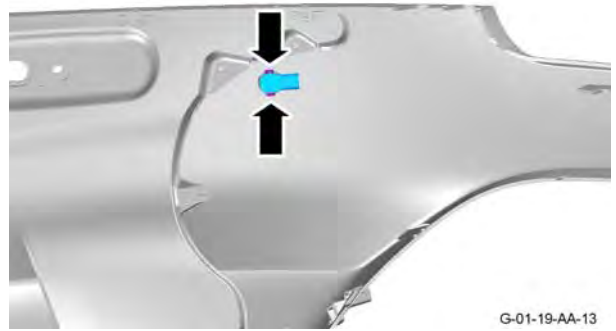


- 13. Remove the two front centre parking aid sensors.



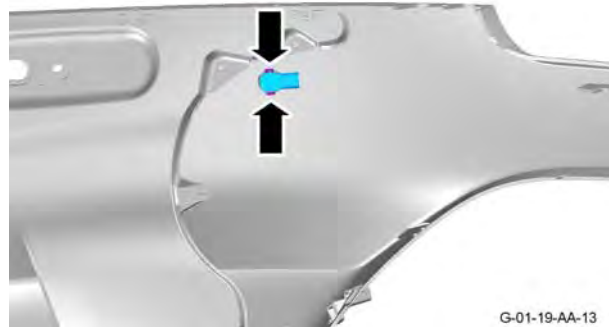
G-01-19-AA-12

14. Remove the left side outer parking aid sensor.



Install

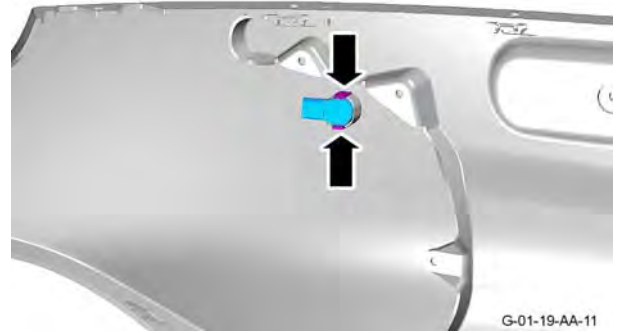
1. Install the left side outer parking aid sensor.



2. Install the two front centre parking aid sensors.



3. Install the right side outer parking aid sensor.




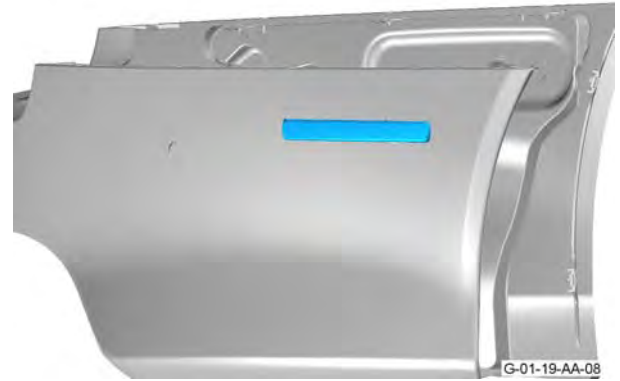
4. **i** Note: This step only applies to NAS vehicles.
Install the right side marker.




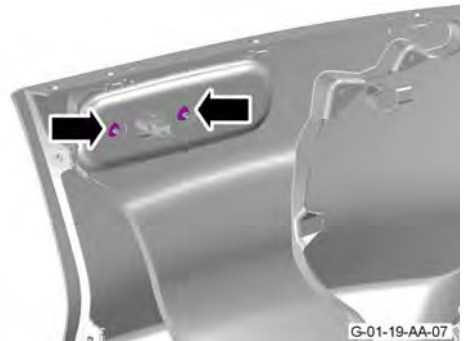
5. **i** Note: This step only applies to NAS vehicles.
Install and tighten the two nuts that attach the right side marker to the front bumper cover.



6.  *Note: This step only applies to NAS vehicles.*
Install the left side marker.



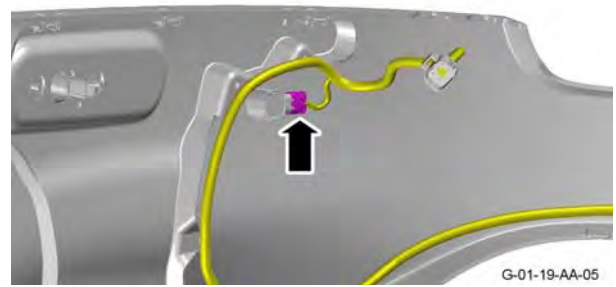
7.  *Note: This step only applies to NAS vehicles.*
Install and tighten the two nuts that attach the left side marker to the front bumper cover.



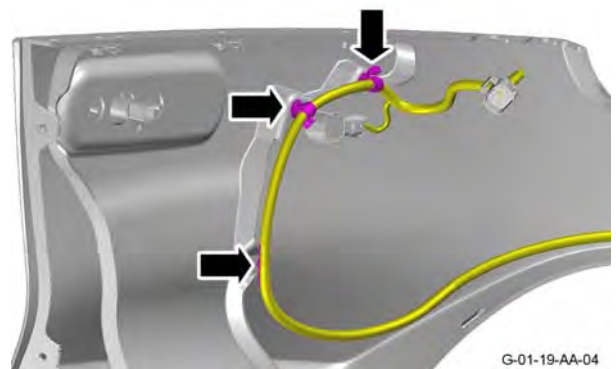
8. Install the wiring harness for the front bumper cover.



9. Connect the electrical connector to the left side outer parking aid sensor.



10. Install the wiring harness for the front bumper cover to the three clips that attach it to the front bumper cover.

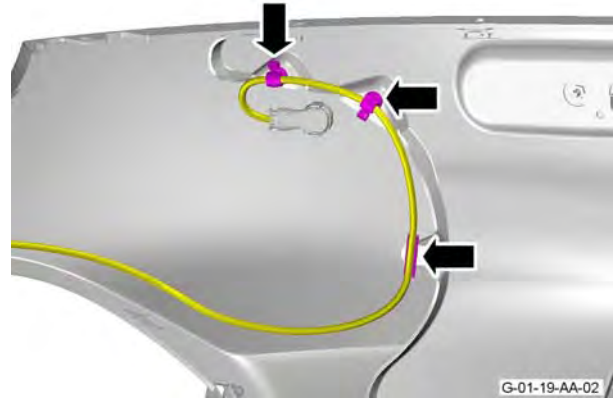


11. Connect the electrical connectors to the two front centre parking aid sensors.

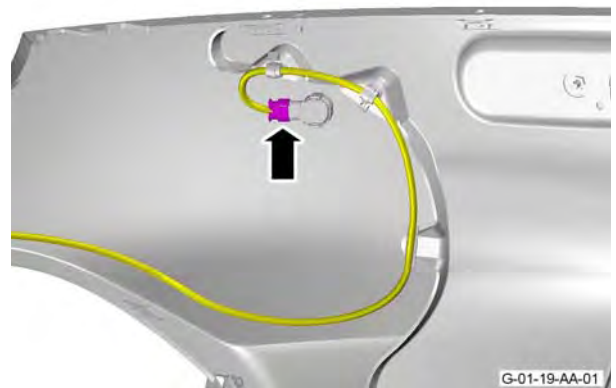


G-01-19-AA-03

12. Install the wiring harness for the front bumper cover to the three clips that attach it to the front bumper cover.






13. Connect the electrical connector to the right side outer parking aid sensor.




14. Install the splitter for the front bumper cover (01.19.AM - Splitter for the Front Bumper Cover).
[\[Open Workshop Manual Procedure\]](#)

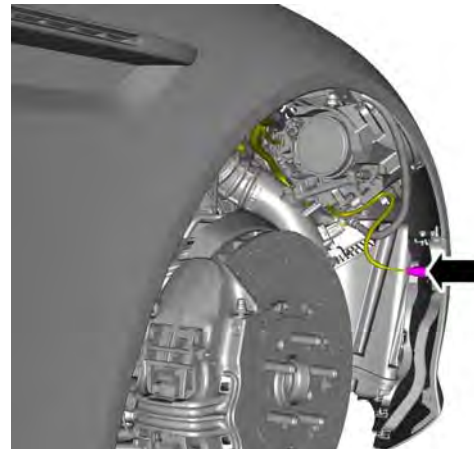
Published date: 2011-04-14 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.19.AB Front Bumper Cover (Remove for Access and Install)**

-  WSM Data
-  Included Procedures
-  Is Used In

Remove for Access

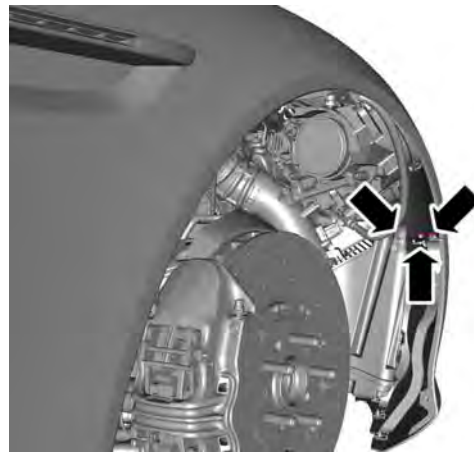
1. Remove the front wheels and tyres (04.04.ED - Wheels and Tyres - Two).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the left side air cleaner assembly (03.12.DJ - Left Side Air Cleaner Assembly).
[\[Open Workshop Manual Procedure\]](#)
3. Remove the front right side wheel-arch liner (01.02.GB - Front Right Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)
4. Remove the plinth for the front licence plate (01.19.BC - Plinth for the Front Licence Plate).
[\[Open Workshop Manual Procedure\]](#)
5.  *Note: This step only applies to NAS vehicles.*
Disconnect the electrical connector from the right side marker.




6. Remove the bolt that attaches the front bumper cover to the right side wing panel.

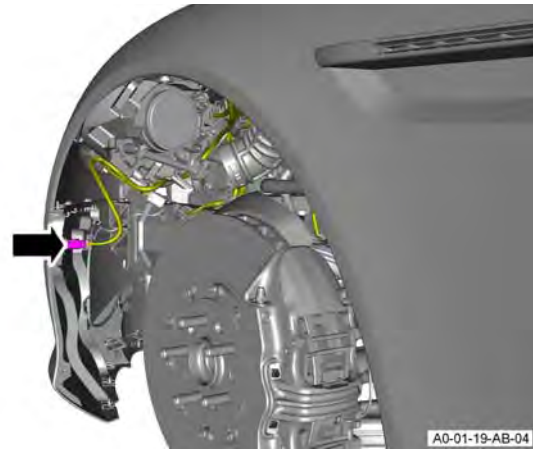


7. Remove the three bolts that attach the front bumper cover to the right side wing panel.



A0-01-19-AB-03

8.  *Note: This step only applies to NAS vehicles.*
Disconnect the electrical connector from the left side marker.



A0-01-19-AB-04

9. Disconnect the electrical connector from the forward harness.



A0-01-19-AB-05

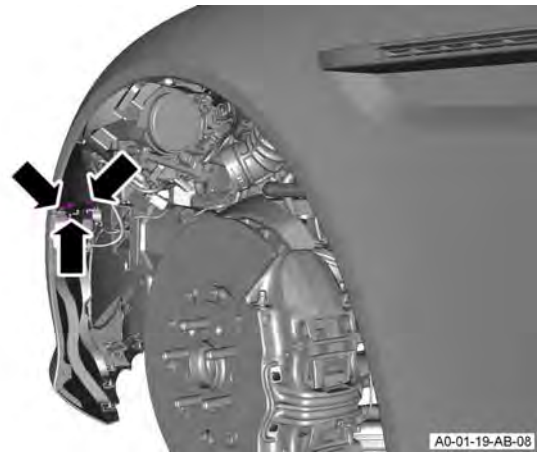
10. Release the wiring harness from the two clips that attach it to the front bumper armature.



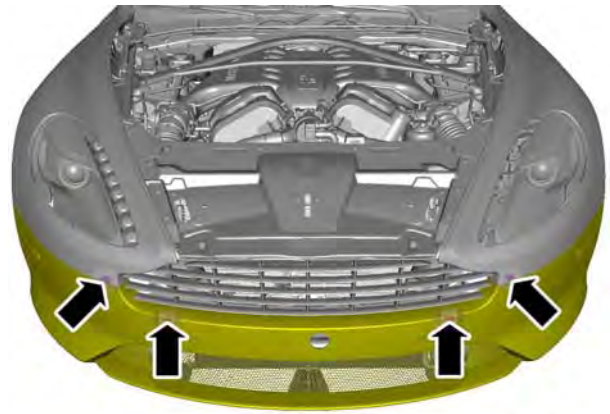
11. Remove the bolt that attaches the front bumper cover to the left side wing panel.




12. Remove the three bolts that attach the front bumper cover to the left side wing panel.



13. Release the front bumper cover from the four clips that attach it to the body.



A0-01-19-AB-09


14.  **Caution: You must have the aid of one more technician to do the step that follows. This will help to prevent damage to the vehicle.**

Remove the front bumper cover.



A0-01-19-AB-10

Install

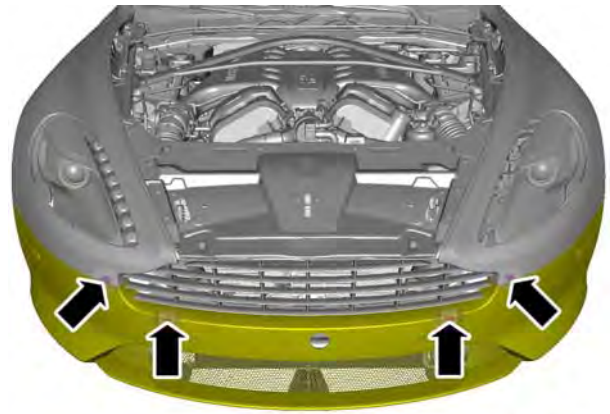
1.  **Caution: You must have the aid of one more technician to do the step that follows. This will help to prevent damage to the vehicle.**

Put the front bumper cover into position.



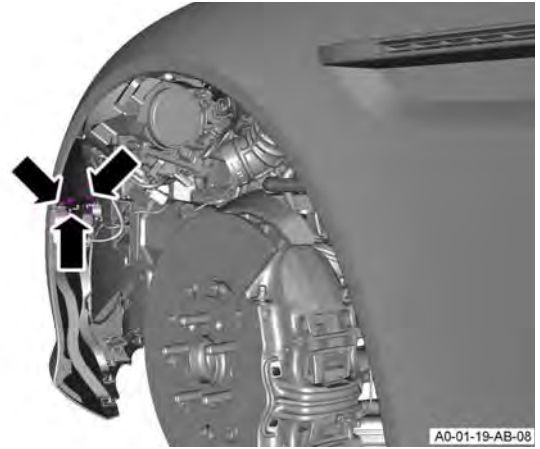
A0-01-19-AB-10

2. Install the front bumper cover to the four clips that attach it to the body.



A0-01-19-AB-09

3. Install and torque the three bolts that attach the front bumper cover to the left side wing panel to 7 Nm.



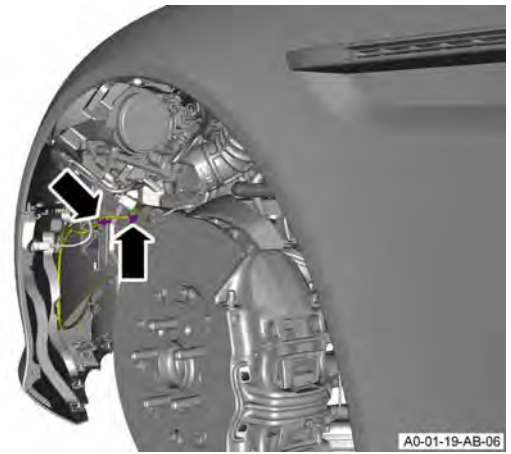
A0-01-19-AB-08

4. Install and torque the bolt that attaches the front bumper cover to the left side wing panel to 7 Nm.




A0-01-19-AB-07

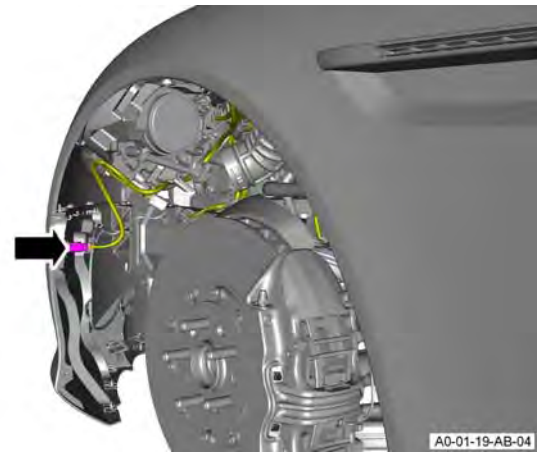
- 5. Install the wiring harness to the two clips that attach it to the front bumper armature.



- 6. Connect the electrical connector to the forward harness.



- 7.  *Note: This step only applies to NAS vehicles.*
Connect the electrical connector to the left side marker.



8. Install and torque the three bolts that attach the front bumper cover to the right side wing panel to 7 Nm.




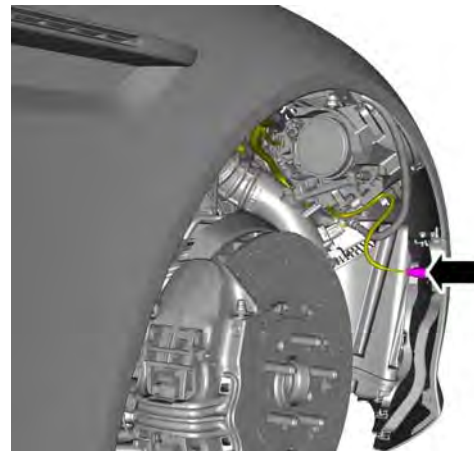
A0-01-19-AB-03

9. Install and torque the bolt that attaches the front bumper cover to the right side wing panel to 7 Nm.



A0-01-19-AB-02

10.  *Note: This step only applies to NAS vehicles.*
Connect the electrical connector to the right side marker.






A0-01-19-AB-01

11. Install the plinth for the front licence plate (01.19.BC - Plinth for the Front Licence Plate).
[\[Open Workshop Manual Procedure\]](#)
12. Install the front right side wheel-arch liner (01.02.GB - Front Right Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)
13. Install the left side air cleaner assembly (03.12.DJ - Left Side Air Cleaner Assembly).
[\[Open Workshop Manual Procedure\]](#)
14. Install the front wheels and tyres (04.04.ED - Wheels and Tyres - Two).
[\[Open Workshop Manual Procedure\]](#)

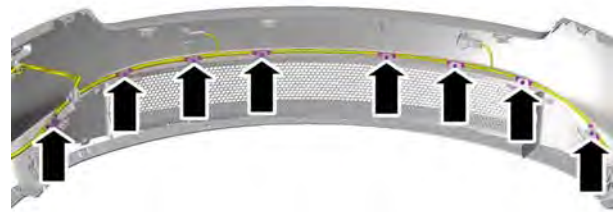
Published date: 2011-04-13 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.19.AC Lower Grille for the Front Bumper Cover (Remove and Install New Part)**

-  WSM Data
-  Included Procedures
-  Is Used In

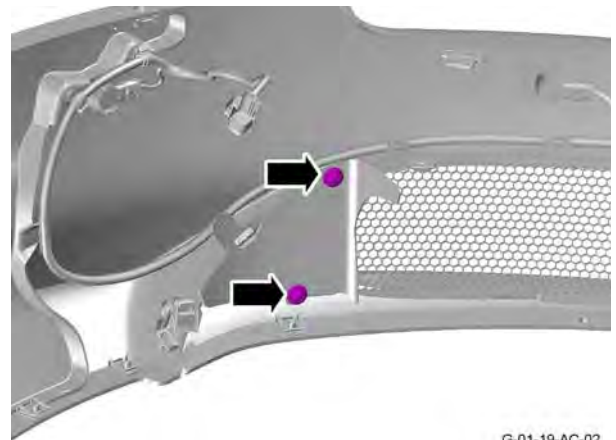
Removal

1. Remove the front bumper cover (01.19.AB - Front Bumper Cover).
[\[Open Workshop Manual Procedure\]](#)
2. Release the wiring harness for the front bumper cover from the eight clips that attach it to the lower grille for the front bumper cover.



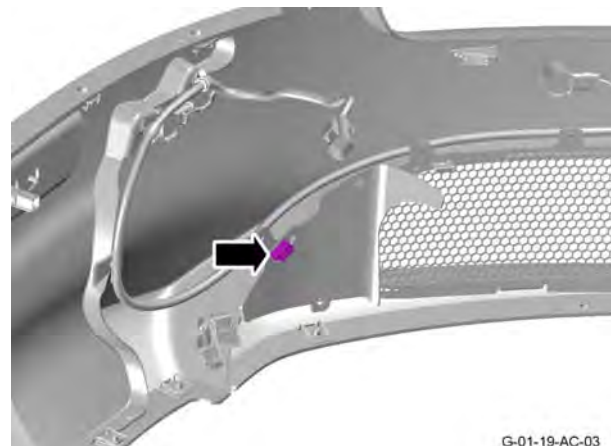
G-01-19-AC-01

3. Remove the two scrivenets that attach the left side cover plate to the lower grille for the front bumper cover.



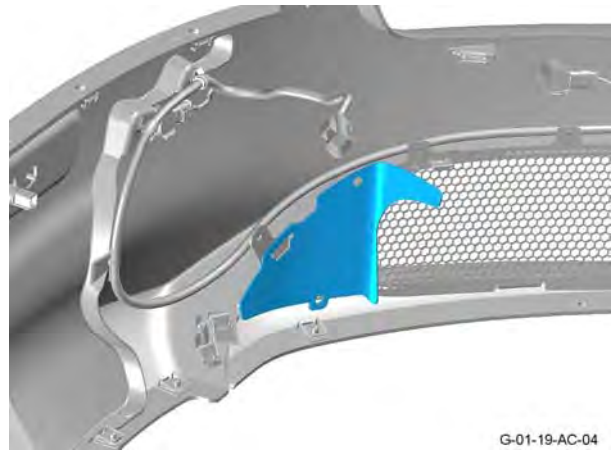
G-01-19-AC-02

4. Remove the clip that attaches the left side cover plate to the lower grille for the front bumper cover.

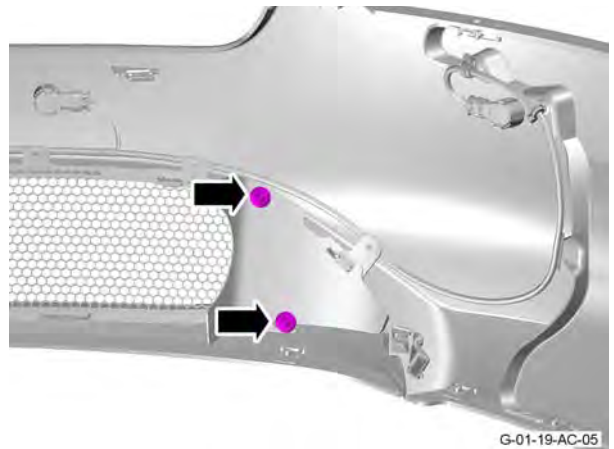


G-01-19-AC-03

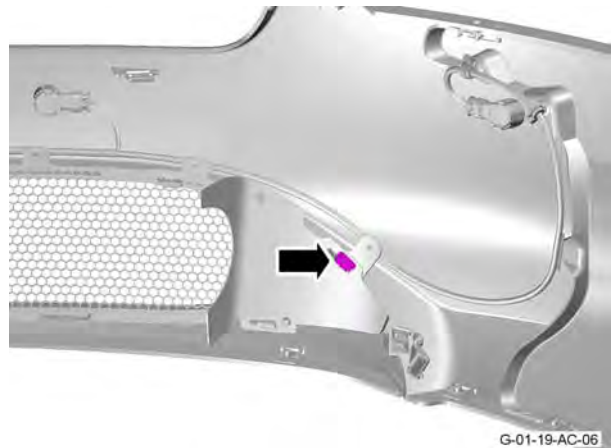
5. Remove the left side cover plate.



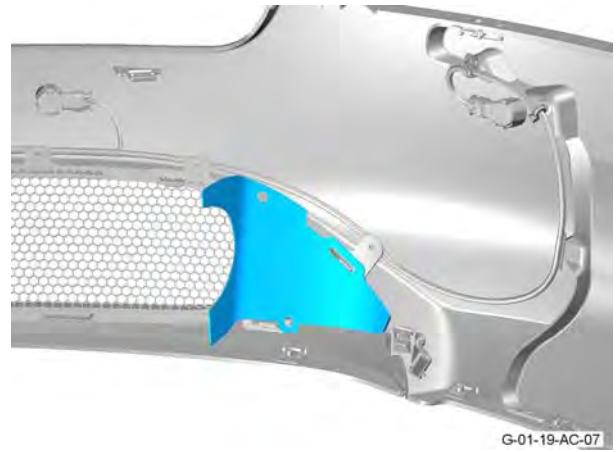
6. Remove the two scrivenets that attach the right side cover plate to the lower grille for the front bumper cover.



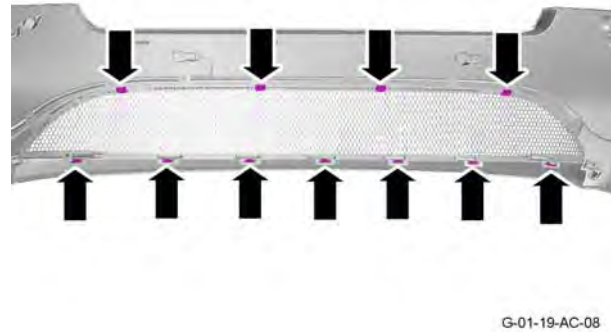
7. Remove the clip that attaches the right side cover plate to the lower grille for the front bumper cover.



- 8. Remove the right side cover plate.



- 9. Remove the 11 clips that attach the lower grille for the front bumper cover to the front bumper cover.



- 10. Remove the lower grille for the front bumper cover.



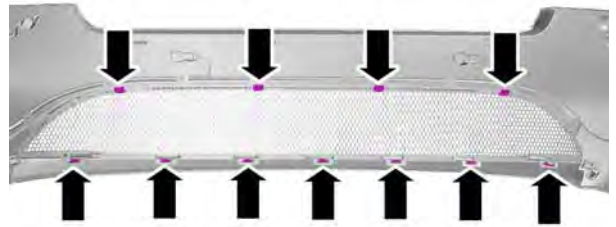
Install

1. Install the lower grille for the front bumper cover.



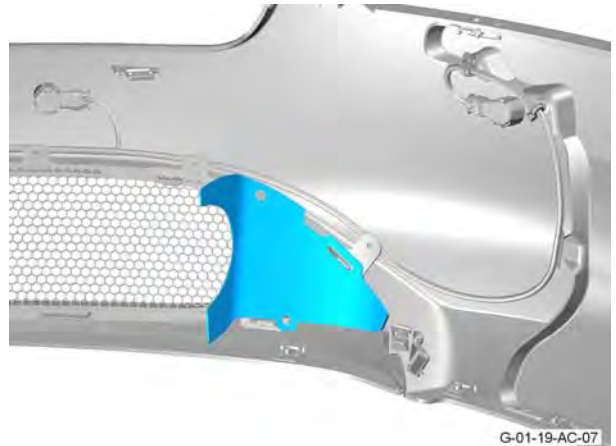
G-01-19-AC-09

2. Install the 11 clips that attach the lower grille for the front bumper cover to the front bumper cover.



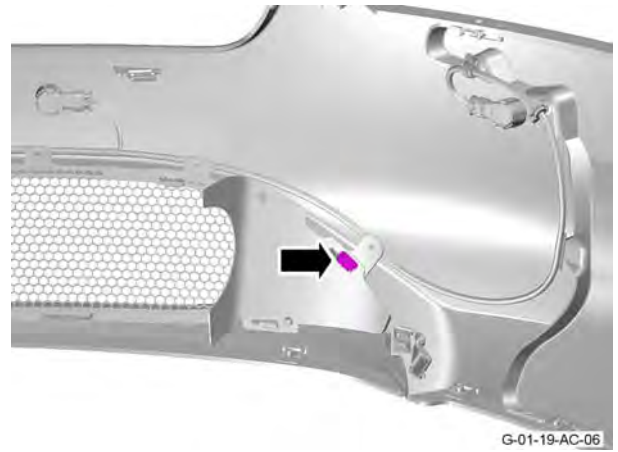
G-01-19-AC-08

3. Install the right side cover plate.

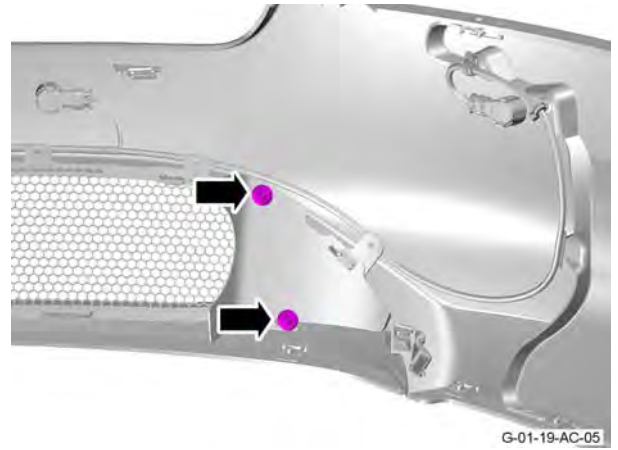


G-01-19-AC-07

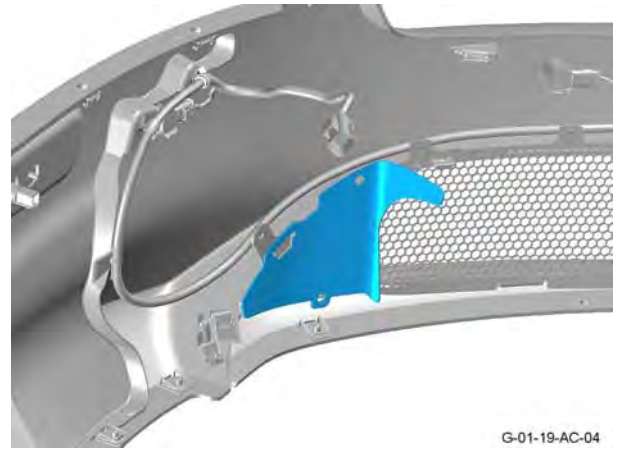
4. Install the clip that attaches the right side cover plate to the lower grille for the front bumper cover.



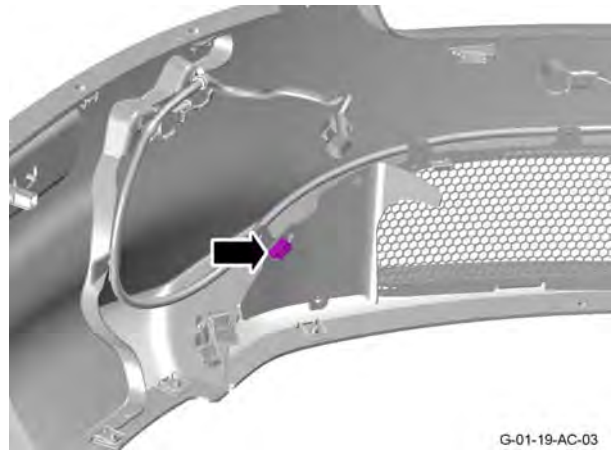
5. Install the two scrivenets that attach the right side cover plate to the lower grille for the front bumper cover.



6. Install the left side cover plate.

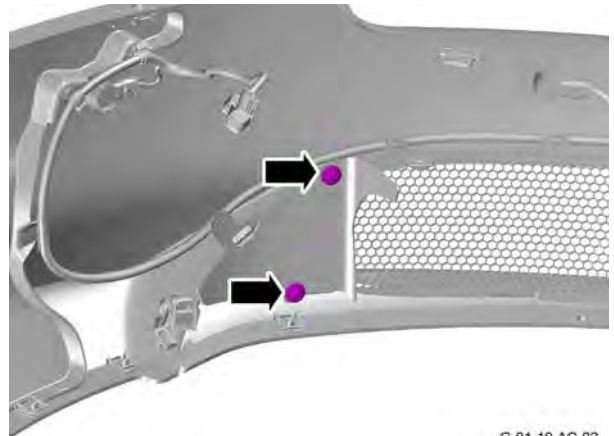


7. Install the clip that attaches the left side cover plate to the lower grille for the front bumper cover.



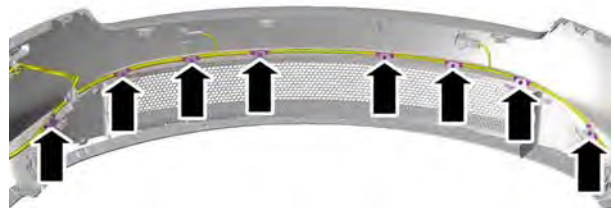
G-01-19-AC-03

8. Install the two scrivenets that attach the left side cover plate to the lower grille for the front bumper cover.



G-01-19-AC-02

9. Install the wiring harness for the front bumper cover to the eight clips that attach it to the lower grille for the front bumper cover.






G-01-19-AC-01

10. Install the front bumper cover (01.19.AB - Front Bumper Cover).

[\[Open Workshop Manual Procedure\]](#)

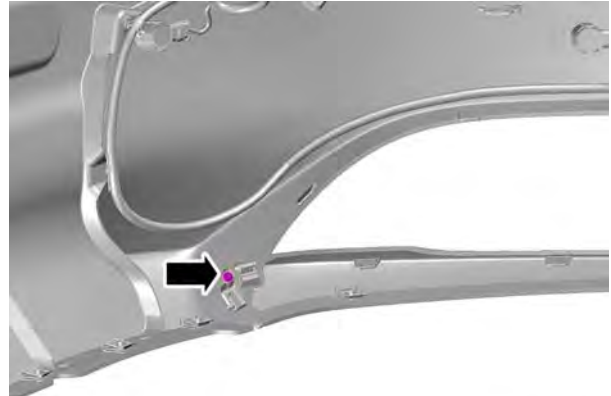
Published date: 2011-04-13 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.19.AM Splitter for the Front Bumper Cover (Remove and Install New Part)**

-  WSM Data
-  Included Procedures
-  Is Used In

Removal

1. Remove the lower grille for the front bumper cover (01.19.AC - Lower Grille for the Front Bumper Cover).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the screw that attaches the splitter for the front bumper cover to the front bumper cover.



G-01-19-AM-01

3. Remove the screw that attaches the splitter for the front bumper cover to the front bumper cover.



G-01-19-AM-02

4. Release the splitter for the front bumper cover from the four tabs that attach it to the front bumper cover.



G-01-19-AM-03

5. Remove the splitter for the front bumper cover.



G-01-19-AM-04

Install

1. Put the splitter for the front bumper cover into position.



G-01-19-AM-04

2. Install the splitter for the front bumper cover to the four tabs that attach it to the front bumper cover.



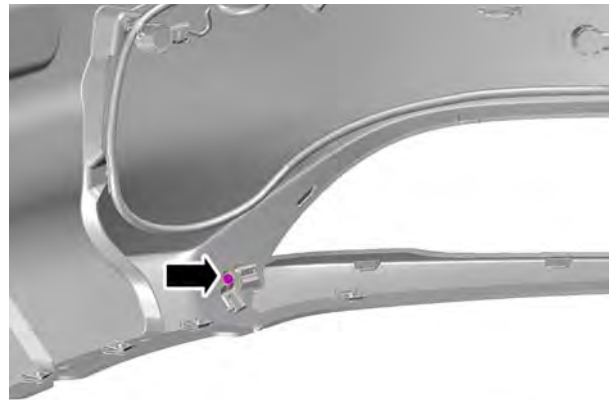
G-01-19-AM-03

3. Install and tighten the screw that attaches the splitter for the front bumper cover to the front bumper cover.



G-01-19-AM-02

4. Install and tighten the screw that attaches the splitter for the front bumper cover to the front bumper cover.






G-01-19-AM-01

5. Install the lower grille for the front bumper cover (01.19.AC - Lower Grille for the Front Bumper Cover).

[\[Open Workshop Manual Procedure\]](#)

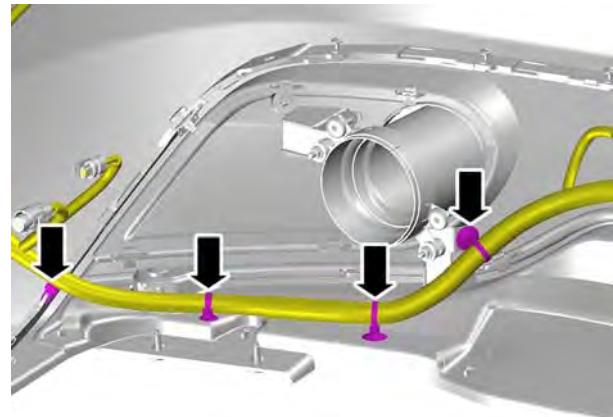
Published date: 2011-04-14 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.19.BB Rear Diffuser (Remove and Install New Part)**

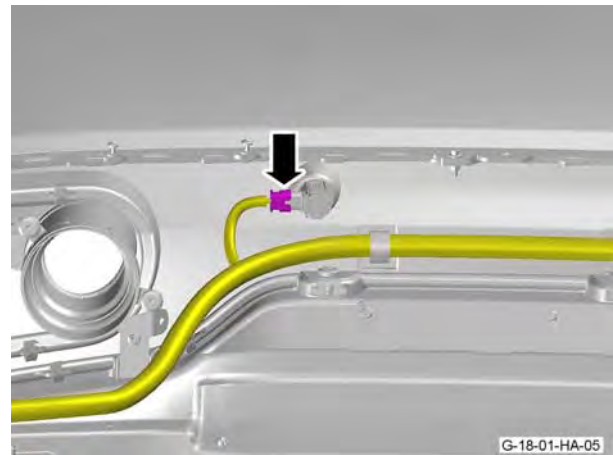
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

1. Remove the finisher for the right side exhaust (01.19.BH - Finisher for the Right Side Exhaust).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the finisher for the left side exhaust (01.19.BJ - Finisher for the Left Side Exhaust).
[\[Open Workshop Manual Procedure\]](#)
3. Release the wiring harness for the rear bumper cover from the four clips that attach it to the rear bumper cover.
4. Disconnect the electrical connector from the right side inner parking aid sensor.

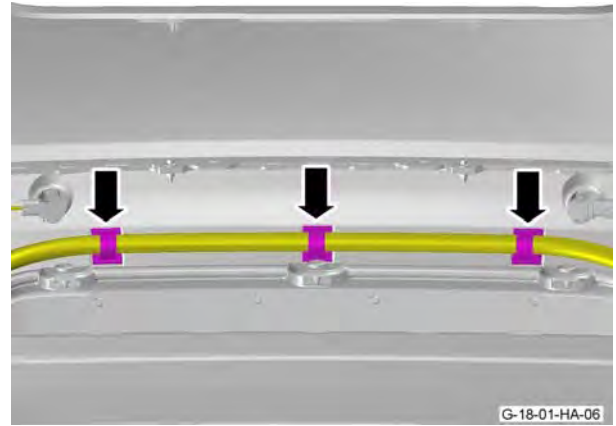


G-18-01-HA-03

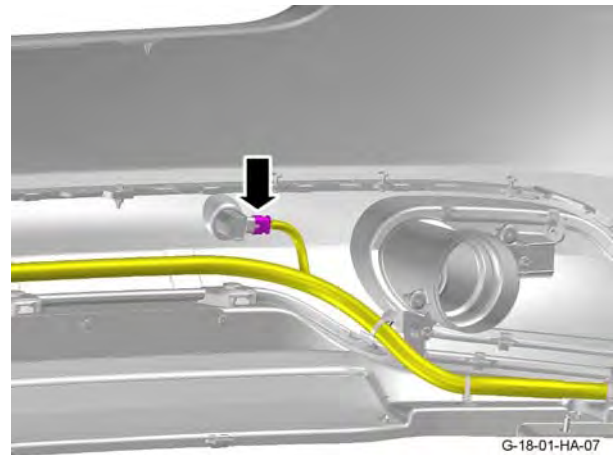


G-18-01-HA-05

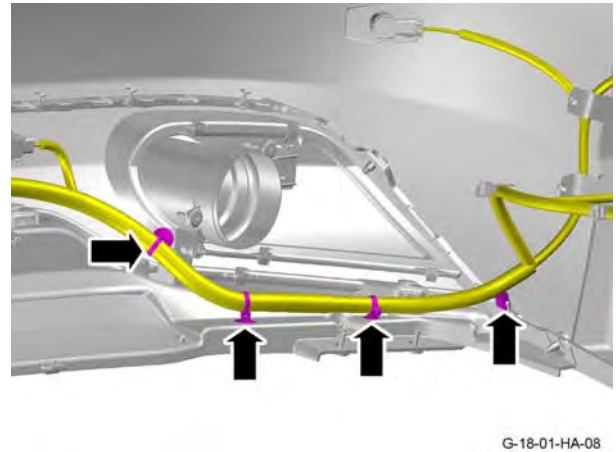
5. Release the wiring harness for the rear bumper cover from the three clips that attach it to the rear bumper cover.



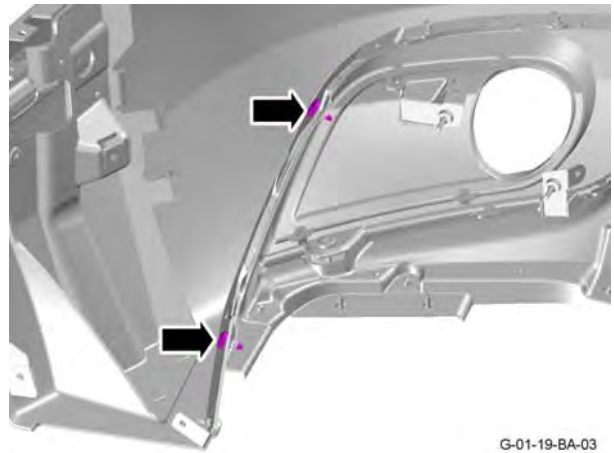
6. Disconnect the electrical connector from the left side inner parking aid sensor.



7. Release the wiring harness for the rear bumper cover from the four clips that attach it to the rear bumper cover.

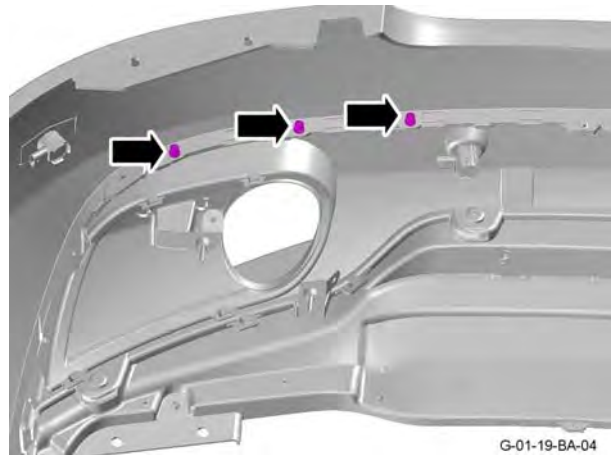


8. Remove the two Torx screws that attach the rear diffuser to the rear bumper cover.



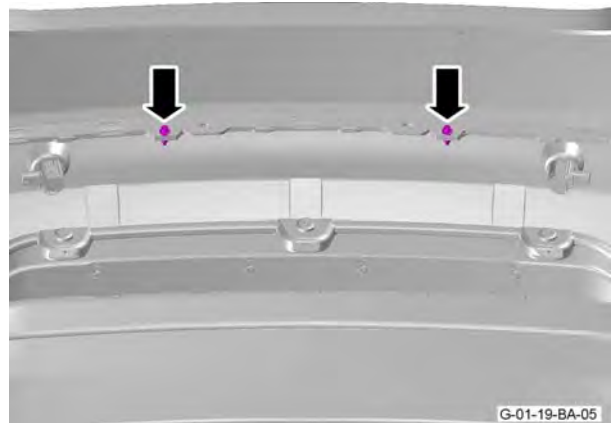
G-01-19-BA-03

9. Remove the three clips that attach the rear diffuser to the rear bumper cover.



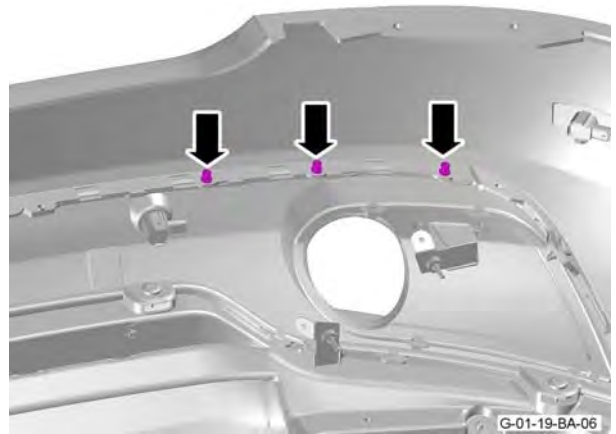
G-01-19-BA-04

10. Remove the two nuts and bolts that attach the rear diffuser to the rear bumper cover.

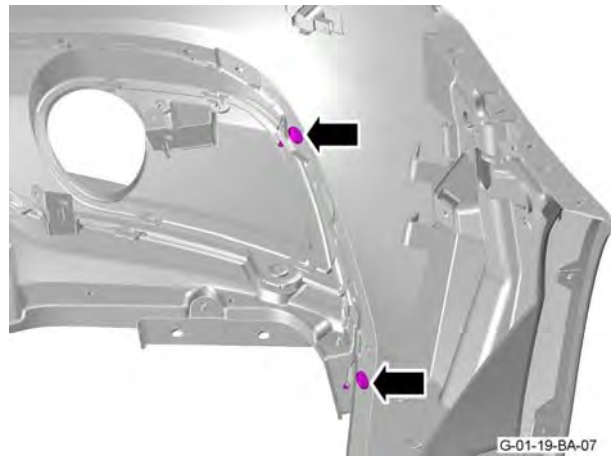


G-01-19-BA-05

11. Remove the three clips that attach the rear diffuser to the rear bumper cover.



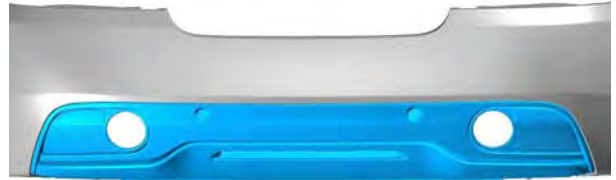
12. Remove the two Torx screws that attach the rear diffuser to the rear bumper cover.



13. Remove the 16 clips that attach the rear diffuser to the rear bumper cover.

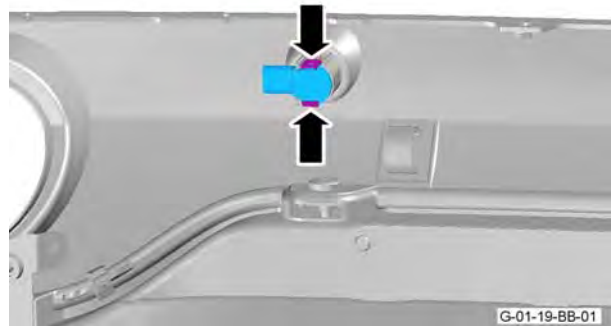


14. Remove the rear diffuser.



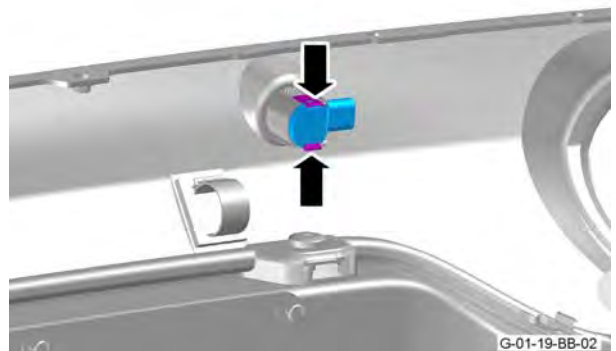
G-01-19-BA-09

15. Remove the right side inner parking aid sensor.



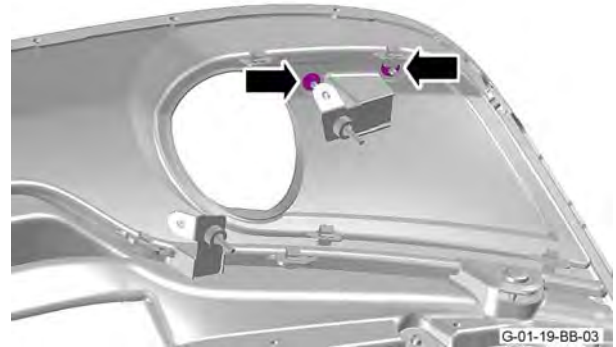
G-01-19-BB-01

16. Remove the left side inner parking aid sensor.

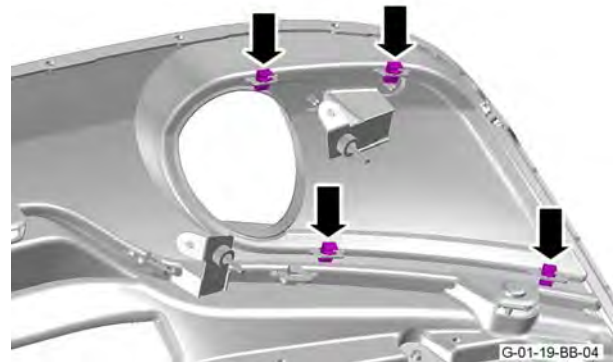


G-01-19-BB-02

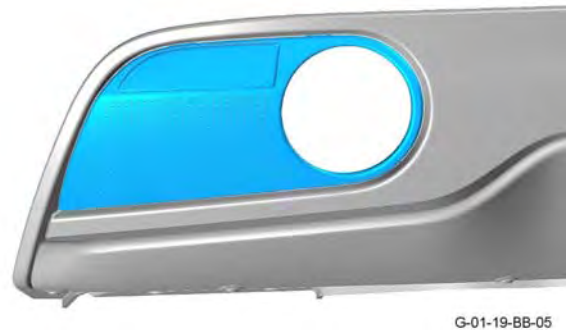
17. Remove the two nuts that attach the left side reflector to the rear diffuser.



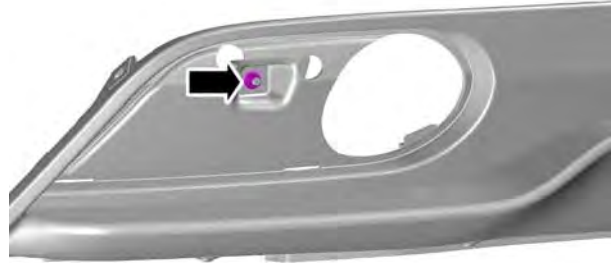
18. Remove the four clips that attach the left side mesh for the rear diffuser to the rear diffuser.



19. Remove the left side mesh for the rear diffuser.



- 20. Remove the nut that attaches the bracket to the rear diffuser.



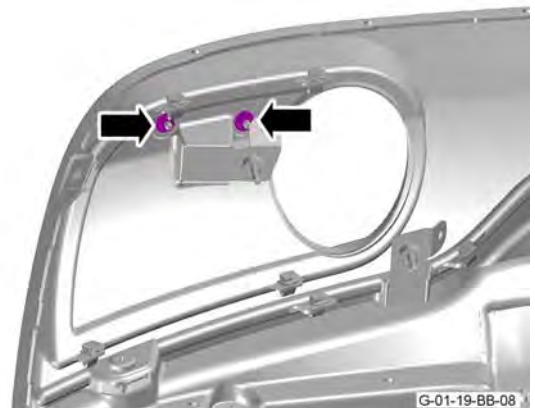
G-01-19-BB-06

- 21. Remove the bracket.



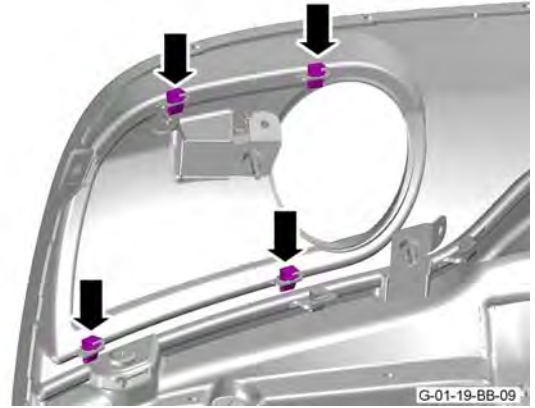
G-01-19-BB-07

- 22. Remove the two nuts that attach the right side reflector to the rear diffuser.

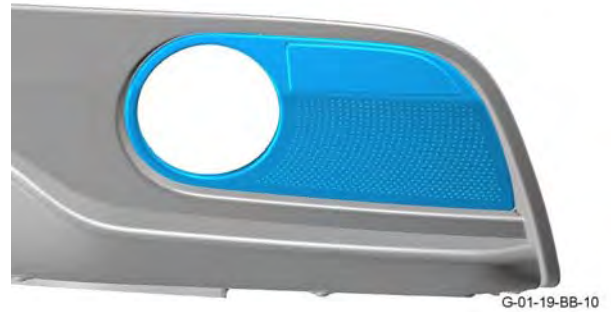


G-01-19-BB-08

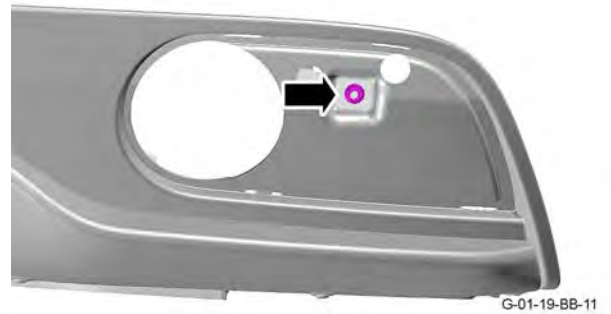
23. Remove the four clips that attach the right side mesh for the rear diffuser to the rear diffuser.



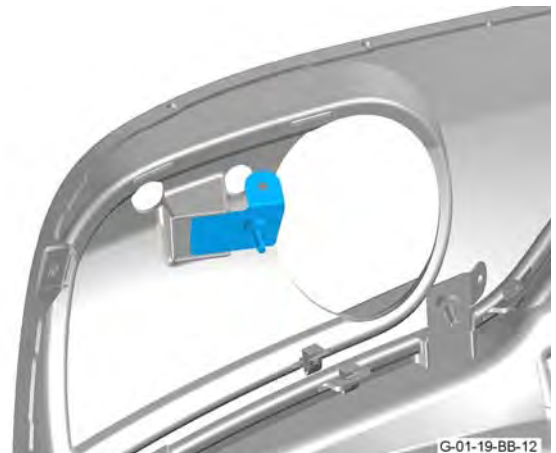
24. Remove the right side mesh for the rear diffuser.



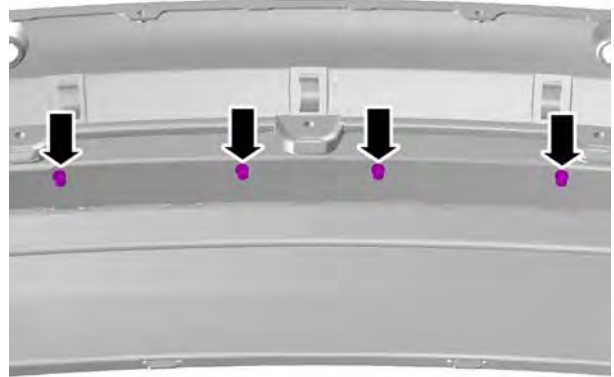
25. Remove the nut that attaches the bracket to the rear diffuser.



26. Remove the bracket.



27. Remove the four clips that attach the centre mesh to the rear diffuser.



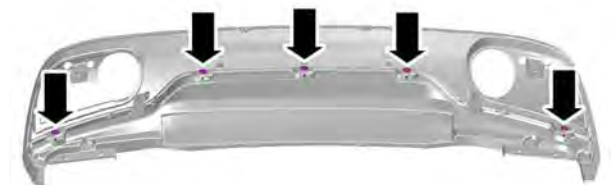
G-01-19-BB-15

28. Remove the centre mesh.



G-01-19-BB-16

29. Remove the five Torx screws that attach the rear bumper blade to the rear diffuser.



G-01-19-BB-13

30. Remove the six screws that attach the rear bumper blade to the rear diffuser.



G-01-19-BB-23

31. Remove the two clips that attach the rear bumper blade to the rear diffuser.



G-01-19-BB-14

32. Remove the four clips that attach the rear bumper blade to the rear diffuser.



G-01-19-BB-17

33. Remove the rear bumper blade.



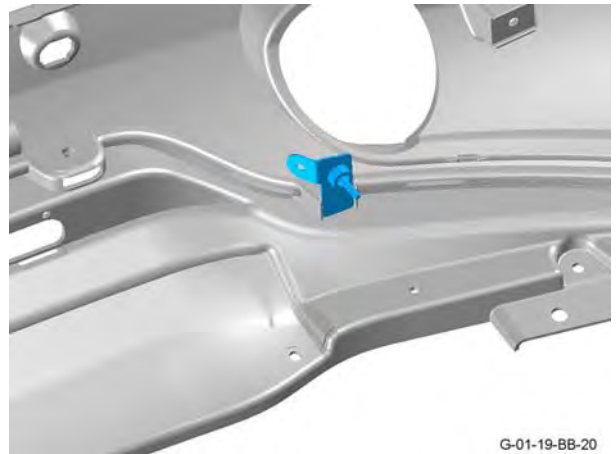
G-01-19-BB-18

34. Remove the nut that attaches the bracket to the rear diffuser.



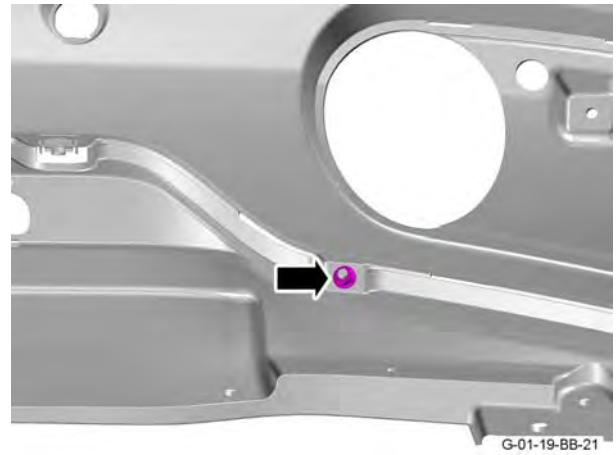
G-01-19-BB-19

35. Remove the bracket.

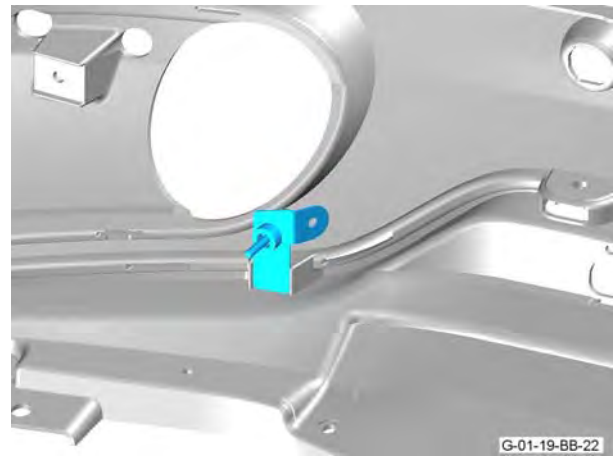


G-01-19-BB-20

36. Remove the nut that attaches the bracket to the rear diffuser.

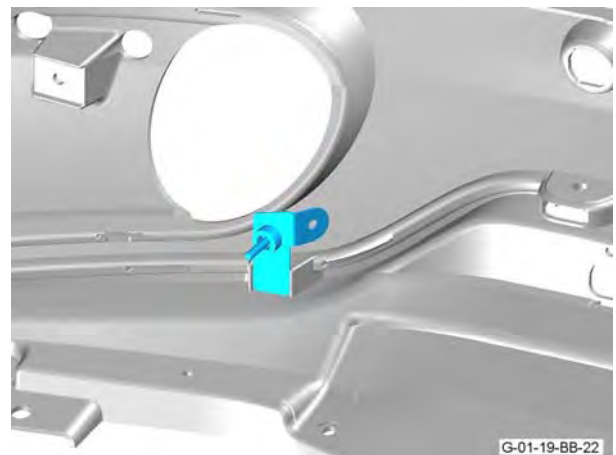


37. Remove the bracket.

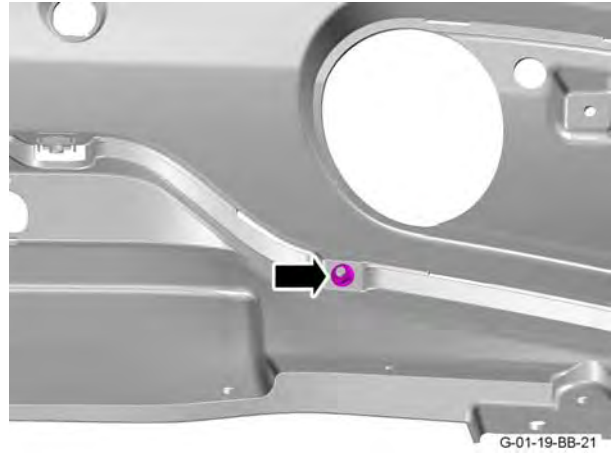


Install

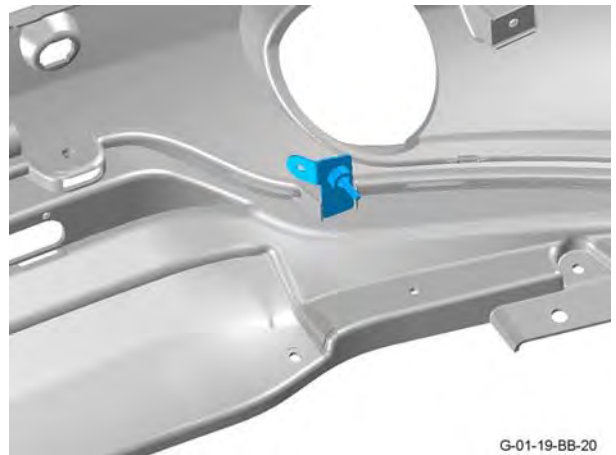
1. Install the bracket.



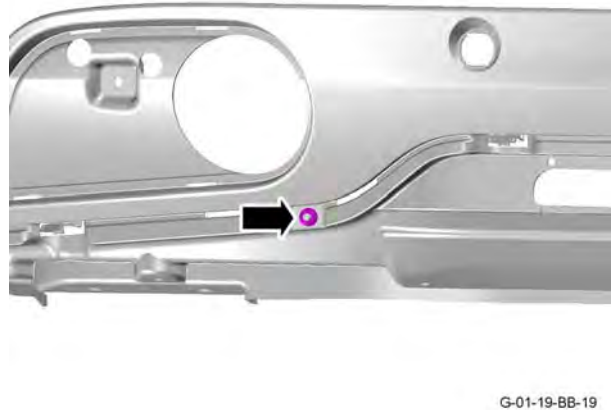
2. Install and torque the nut that attaches the bracket to the rear diffuser to 5 Nm.



3. Install the bracket.



4. Install and torque the nut that attaches the bracket to the rear diffuser to 5 Nm.



5. Install the rear bumper blade.



G-01-19-BB-18

6. Install the four clips that attach the rear bumper blade to the rear diffuser.



G-01-19-BB-17

7. Install the two clips that attach the rear bumper blade to the rear diffuser.



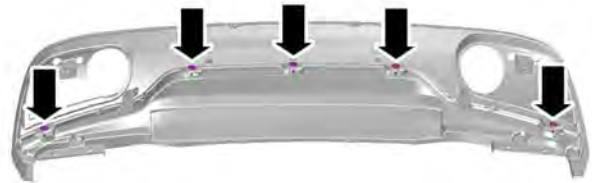
G-01-19-BB-14

- 8. Install the six scrivets that attach the rear bumper blade to the rear diffuser.



G-01-19-BB-23

- 9. Install and tighten the five Torx screws that attach the rear bumper blade to the rear diffuser.



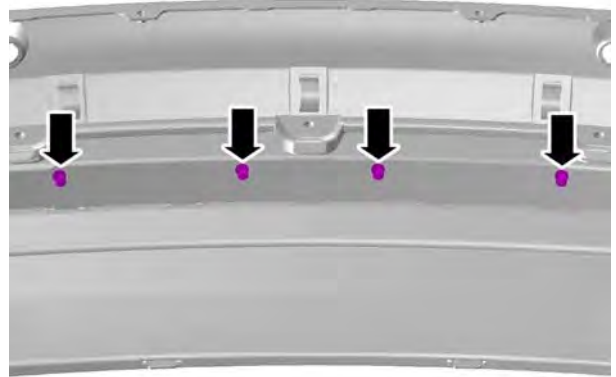
G-01-19-BB-13

- 10. Install the centre mesh.



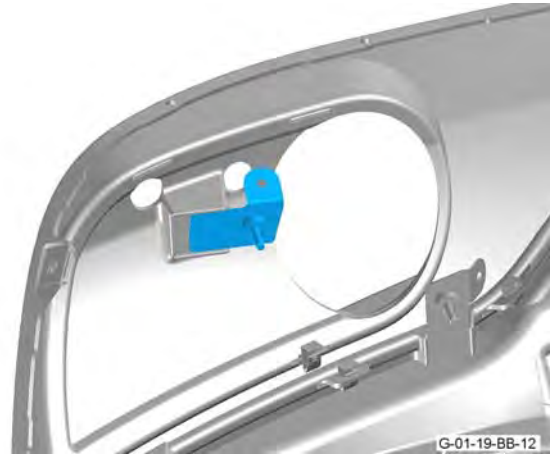
G-01-19-BB-16

11. Install the four clips that attach the centre mesh to the rear diffuser.



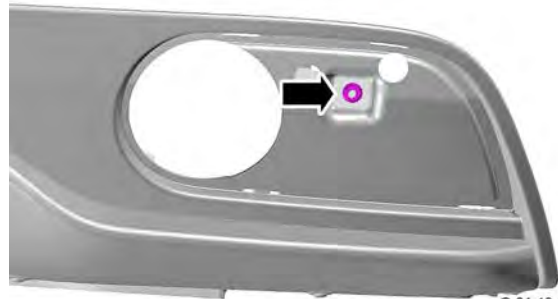
G-01-19-BB-15

12. Install the bracket.



G-01-19-BB-12

13. Install and torque the nut that attaches the bracket to the rear diffuser to 5 Nm.



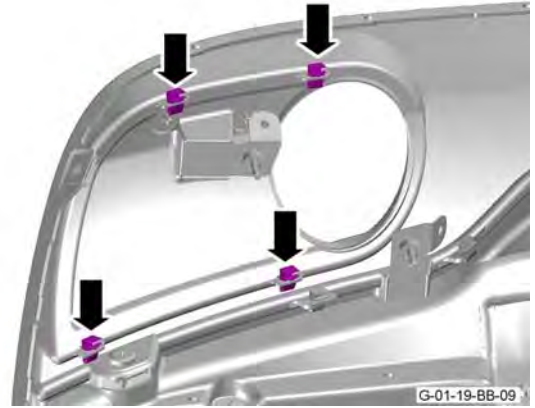
G-01-19-BB-11

14. Put the right side mesh for the rear diffuser into the correct position.

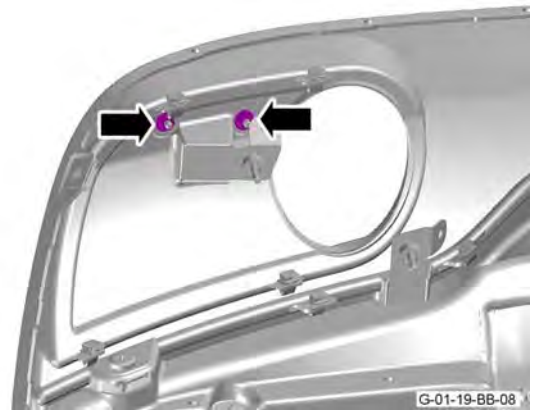


G-01-19-BB-10

15. Install the four clips that attach the right side mesh for the rear diffuser to the rear diffuser.



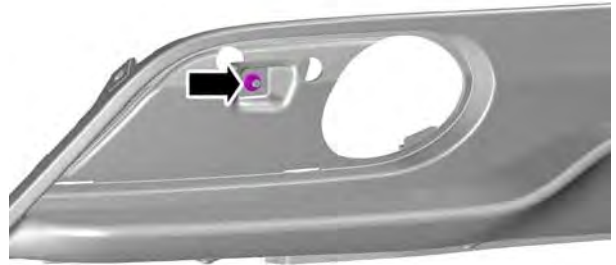
16. Install and tighten the two nuts that attach the right side reflector to the rear diffuser.



17. Install the bracket.



18. Install and torque the nut that attaches the bracket to the rear diffuser to 5 Nm.



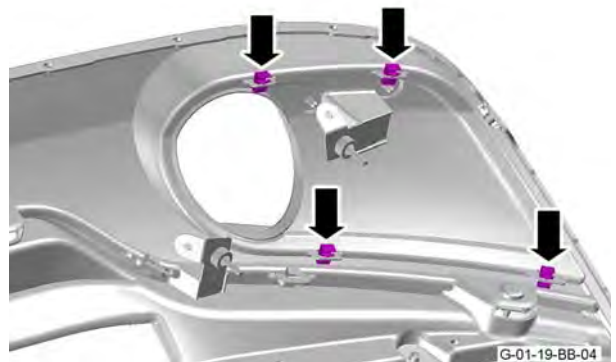
G-01-19-BB-06

19. Put the left side mesh for the rear diffuser into position.



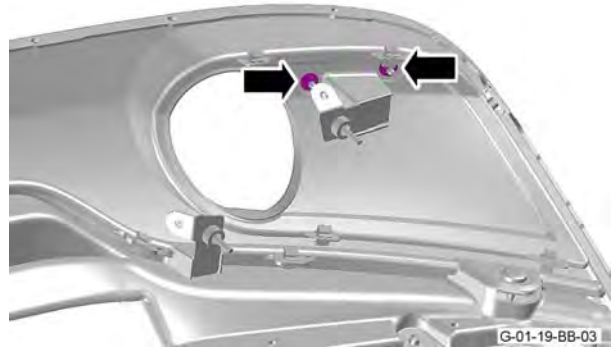
G-01-19-BB-05

20. Install the four clips that attach the left side mesh for the rear diffuser to the rear diffuser.

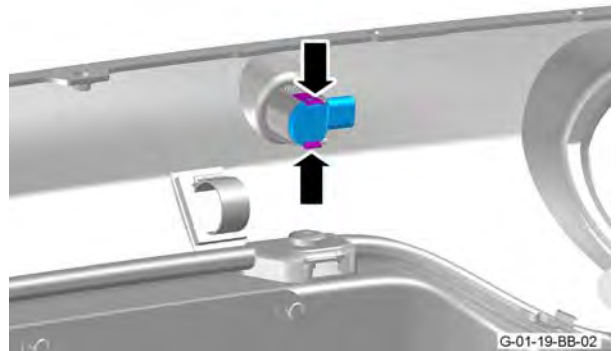


G-01-19-BB-04

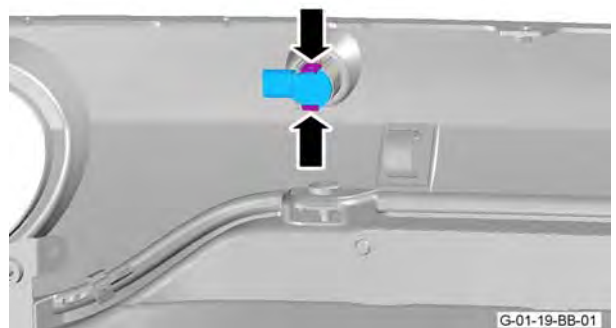
21. Install and tighten the two nuts that attach the left side reflector to the rear diffuser.



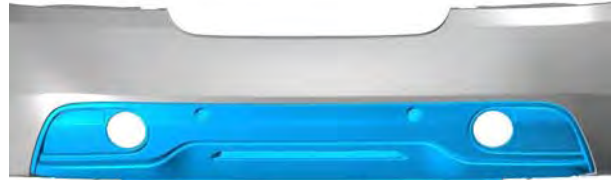
22. Install the left side inner parking aid sensor.



23. Install the right side inner parking aid sensor.



24. Put the rear diffuser into position.



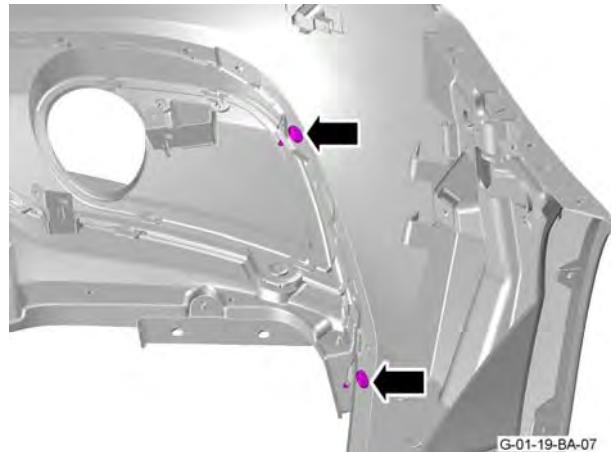
G-01-19-BA-09

25. Install the 16 clips that attach the rear diffuser to the rear bumper cover.



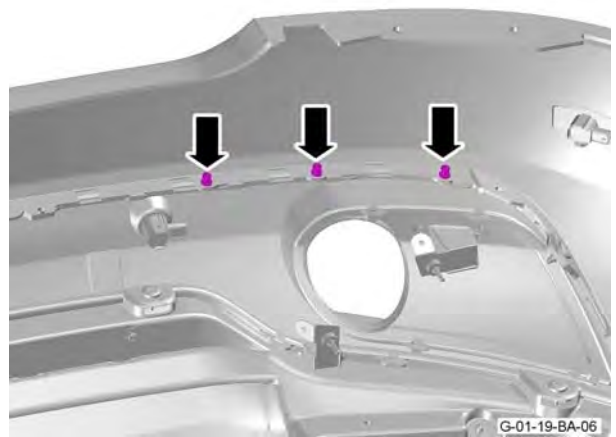
G-01-19-BA-08

26. Install and torque the two Torx screws that attach the rear diffuser to the rear bumper cover to 5 Nm.

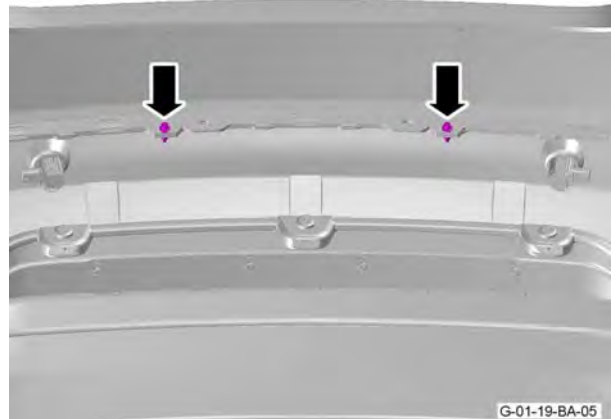


G-01-19-BA-07

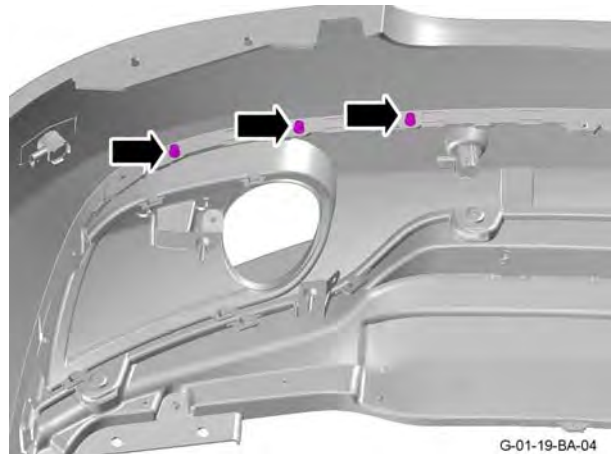
27. Install the three clips that attach the rear diffuser to the rear bumper cover.



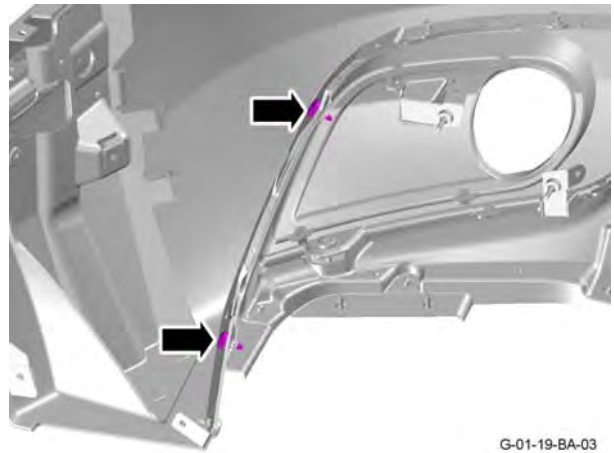
28. Install and torque the two nuts and bolts that attach the rear diffuser to the rear bumper cover to 5 Nm.



29. Install the three clips that attach the rear diffuser to the rear bumper cover.

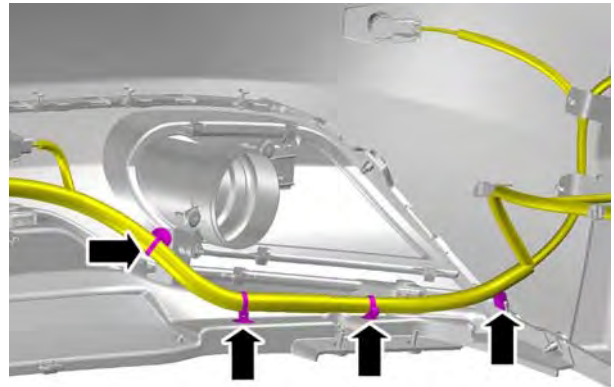


30. Install and torque the two Torx screws that attach the rear diffuser to the rear bumper cover to 5 Nm.



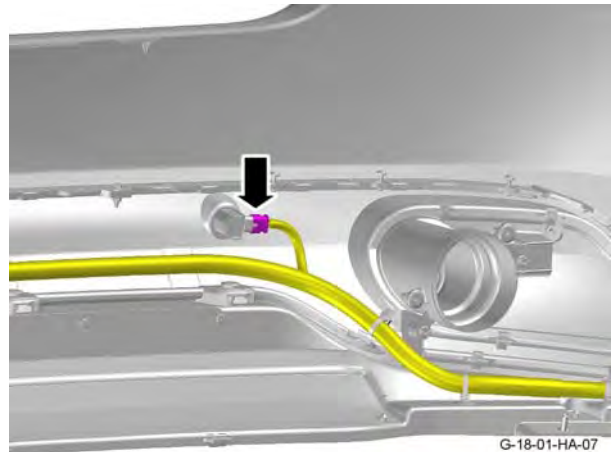
G-01-19-BA-03

31. Install the wiring harness for the rear bumper cover to the four clips that attach it to the rear bumper cover.



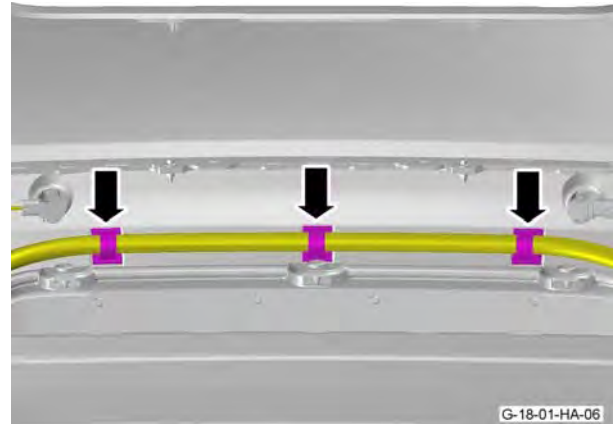
G-18-01-HA-08

32. Connect the electrical connector to the left side inner parking aid sensor.

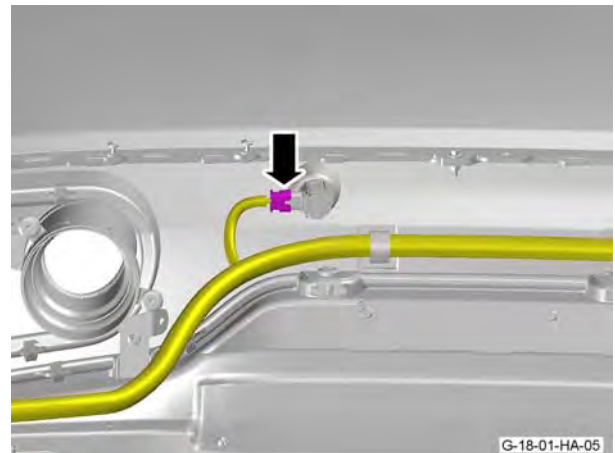


G-18-01-HA-07

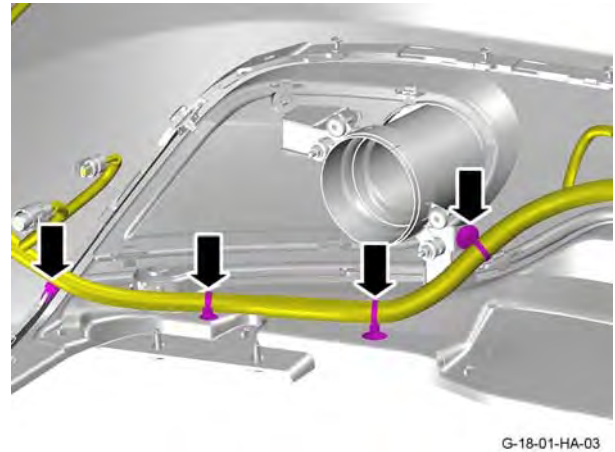
33. Install the wiring harness for the rear bumper cover to the three clips that attach it to the rear bumper cover.



34. Connect the electrical connector to the right side inner parking aid sensor.






35. Install the wiring harness for the rear bumper cover to the four clips that attach it to the rear bumper cover.



36. Install the finisher for the left side exhaust (01.19.BJ - Finisher for the Left Side Exhaust).
[\[Open Workshop Manual Procedure\]](#)
37. Install the finisher for the right side exhaust (01.19.BH - Finisher for the Right Side Exhaust).
[\[Open Workshop Manual Procedure\]](#)

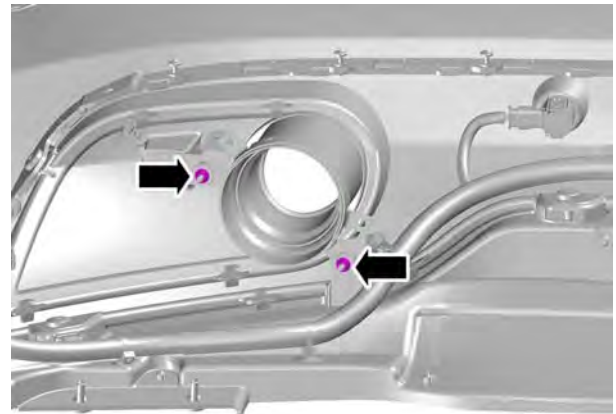
Published date: 2011-04-21 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.19.BH Finisher for the Right Side Exhaust (Remove and Install New Part)**

-  WSM Data
-  Included Procedures
-  Is Used In

Removal

1. Remove the rear bumper cover (01.19.BN - Rear Bumper Cover).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the two nuts that attach the finisher for the right side exhaust to the rear diffuser.



G-01-19-BH-01

3. Remove the two spacer washers.



G-01-19-BH-02

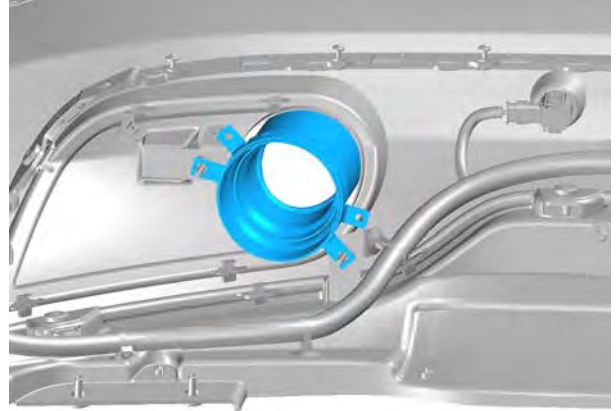
4. Remove the finisher for the right side exhaust.



G-01-19-BH-03

Install

1. Install the finisher for the right side exhaust.



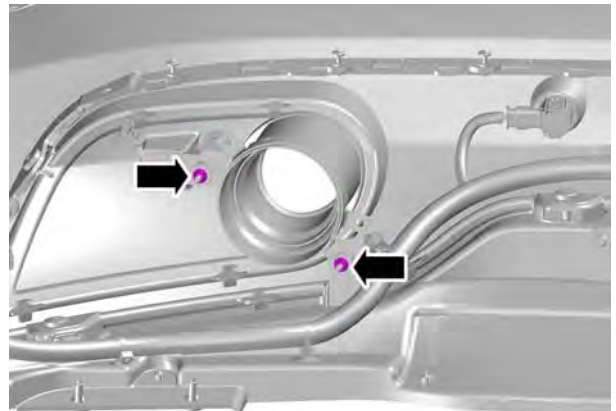
G-01-19-BH-03

2. Install the two spacer washers.



G-01-19-BH-02

3. Install and tighten the two nuts that attach the finisher for the right side exhaust to the rear diffuser.






G-01-19-BH-01

4. Install the rear bumper cover (01.19.BN - Rear Bumper Cover).

[\[Open Workshop Manual Procedure\]](#)

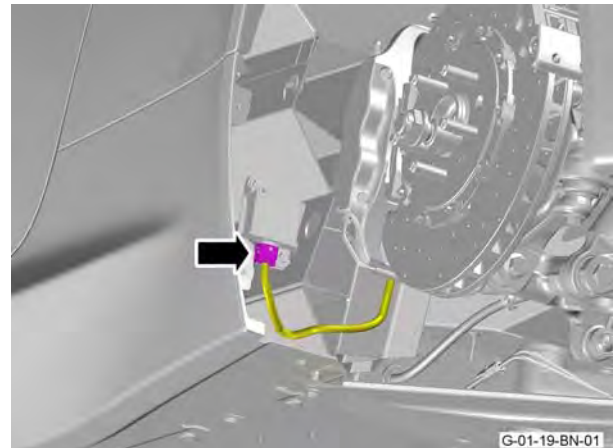
Published date: 2011-04-20 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****01.19.BN Rear Bumper Cover (Remove for Access and Install)**

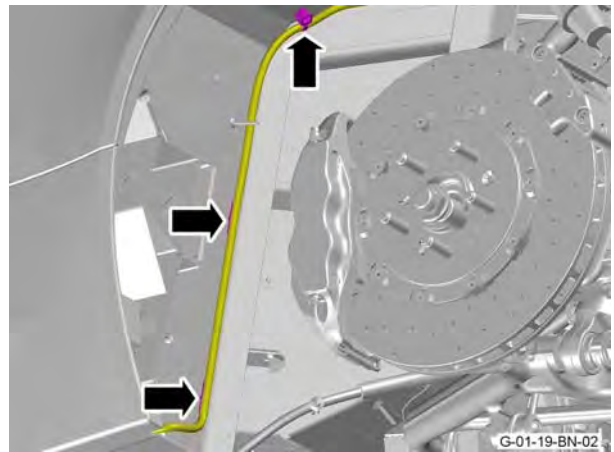
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

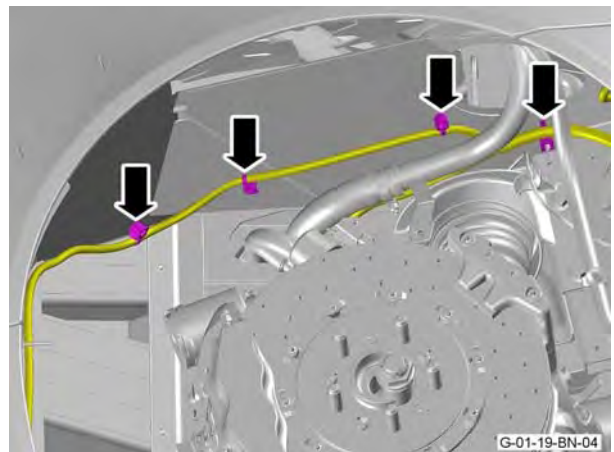
1. Do the battery disconnection procedure (14.01.CA - Battery Disconnection and Connection Procedure).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the rear wheels and tyres (04.04.ED - Wheels and Tyres - Two).
[\[Open Workshop Manual Procedure\]](#)
3. Remove the rear right side wheel-arch liner (01.02.HB - Rear Right Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)
4. Remove the rear left side wheel-arch liner (01.02.JB - Rear Left Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)
5. Remove the left side rear lamp assembly (17.03.AA - Left Side Rear Lamp Assembly).
[\[Open Workshop Manual Procedure\]](#)
6. Remove the right side rear lamp assembly (17.03.AB - Right Side Rear Lamp Assembly).
[\[Open Workshop Manual Procedure\]](#)
7. Lift the vehicle.
8. Disconnect the electrical connector from the trigger for the Tyre Pressure Monitor System (TPMS).




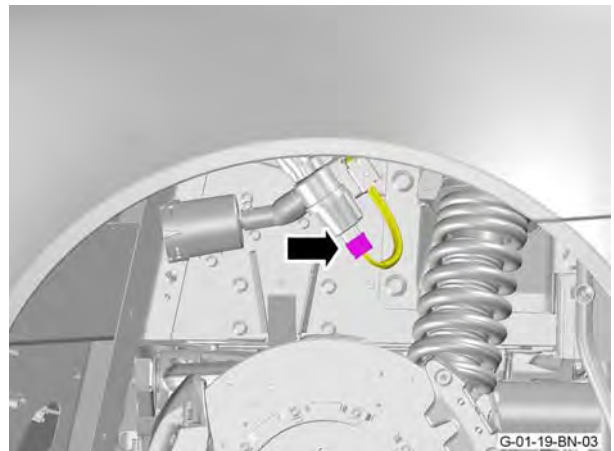
9. Release the wiring harness for the rear bumper cover from the three clips that attach it to the body.



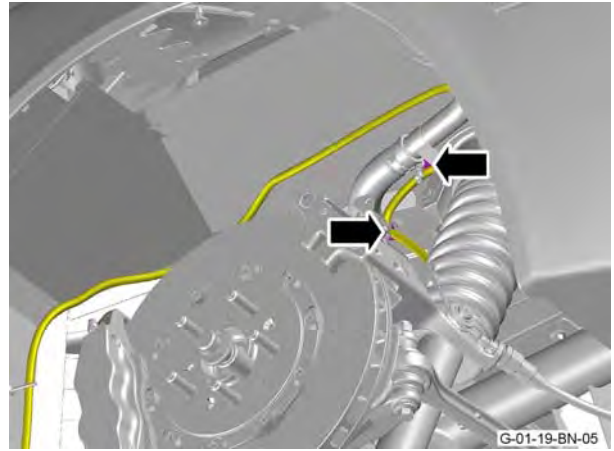
10. Release the wiring harness for the rear bumper cover from the four clips that attach it to the body.



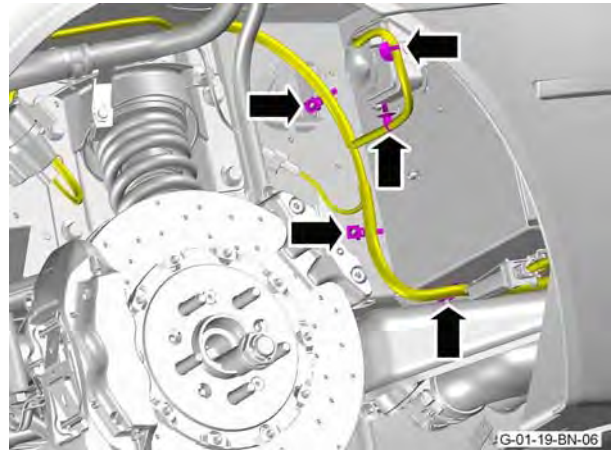
11.  *Note: This step only applies to NAS vehicles.*
Disconnect the electrical connector from the DMTL filter.



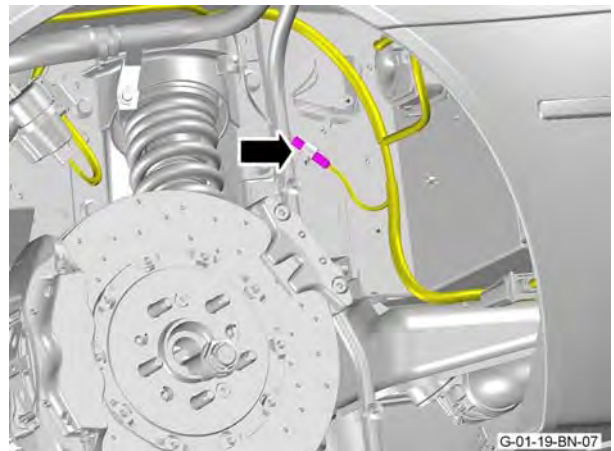
12. Release the wiring harness for the rear bumper cover from the two clips that attach it to the body.



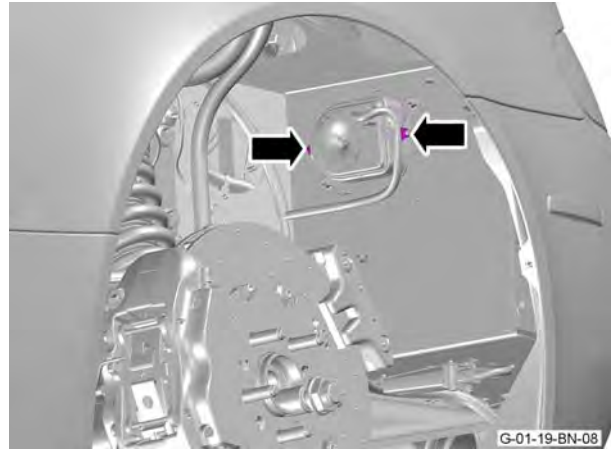
13. Release the wiring harness for the rear bumper cover from the five clips that attach it to the body.



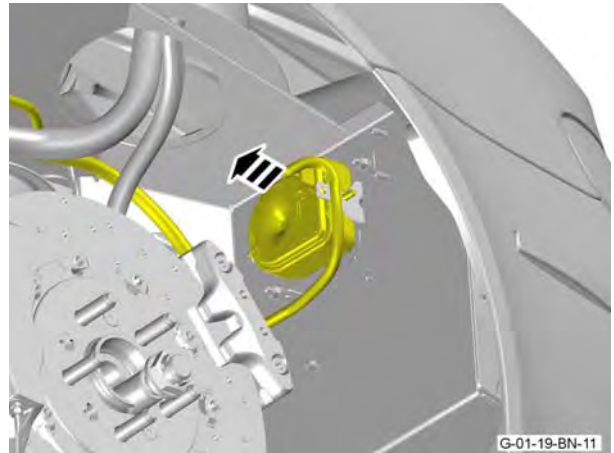
14. Disconnect the electrical connector from the adaptive damper.



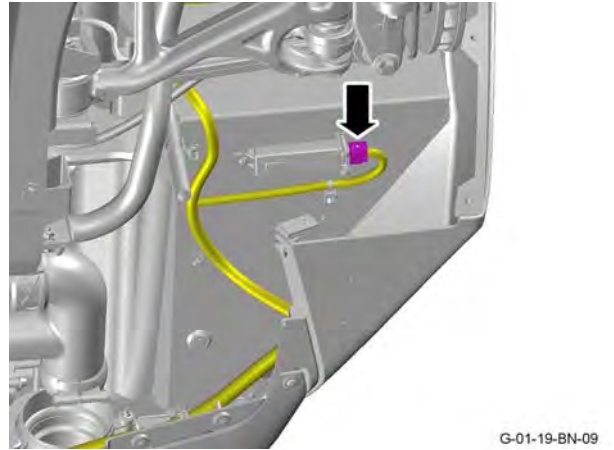
- 15. Remove the two nuts that attach the siren to the body.



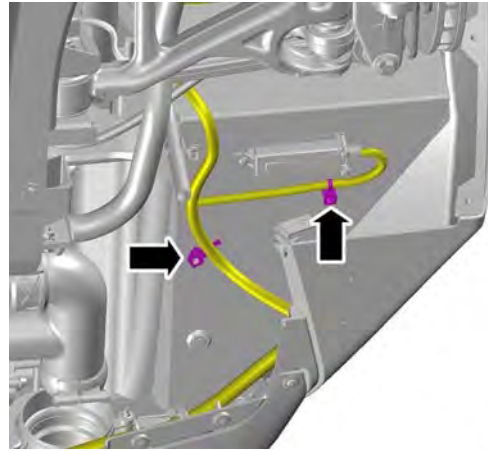
- 16. Release the siren from the body.



- 17. Disconnect the electrical connector from the TPMS antenna.

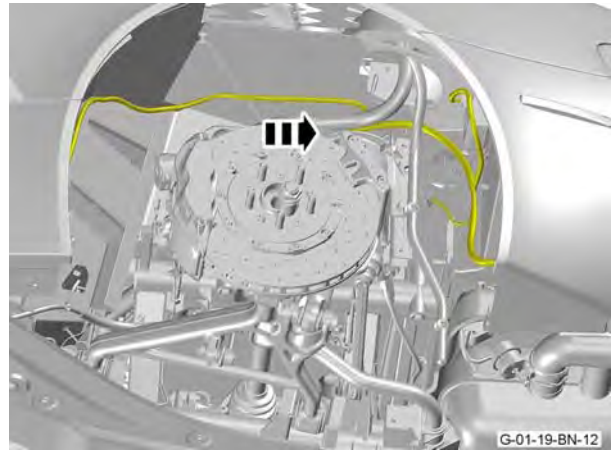


18. Release the wiring harness for the rear bumper cover from the two clips that attach it to the body.



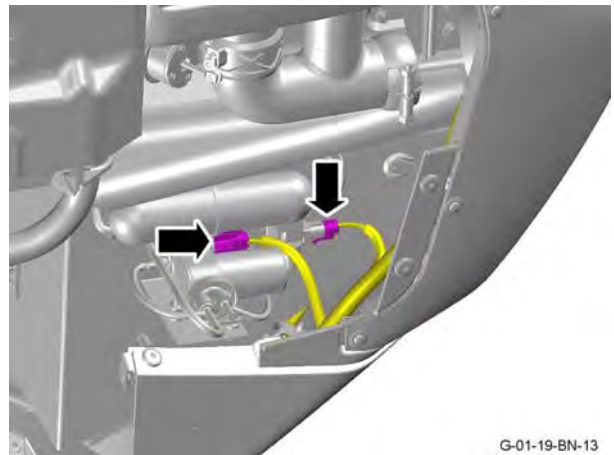
G-01-19-BN-10

19. Move the wiring harness for the rear bumper cover away from the left side rear wheel-arch.



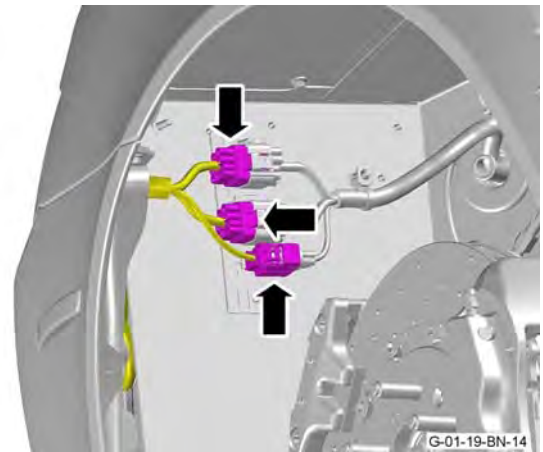
G-01-19-BN-12

20. Disconnect the two electrical connectors from the vacuum pump for the exhaust valves.

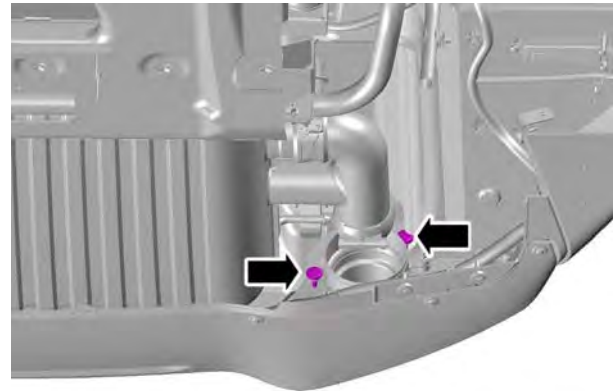


G-01-19-BN-13

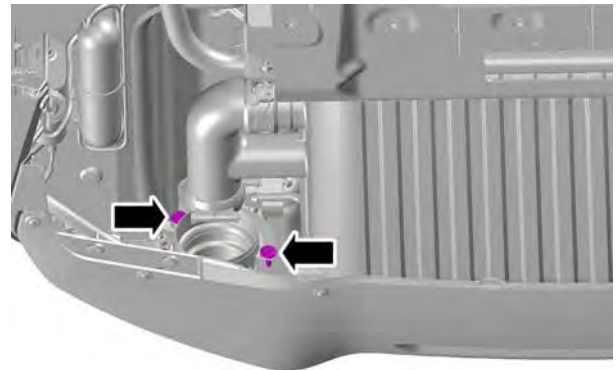
21. Disconnect the three electrical connectors from the wiring harness for the cabin.



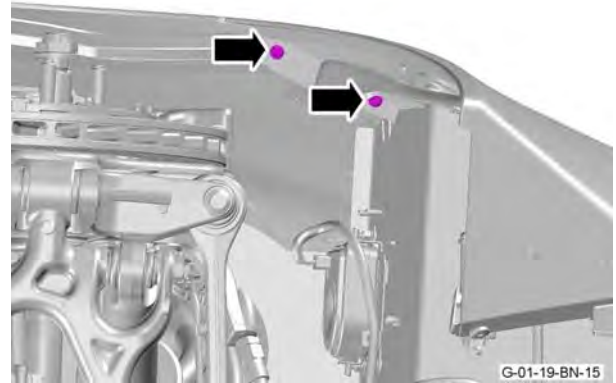
22. Remove the two Torx screws that attach the left side exhaust finisher to the body.



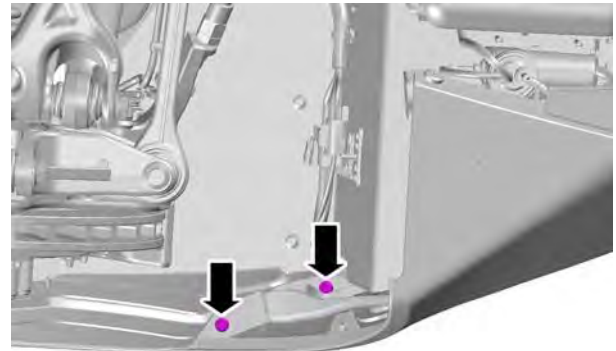
23. Remove the two Torx screws that attach the right side exhaust finisher to the body.



24. Remove the two bolts that attach the rear bumper cover to the body.

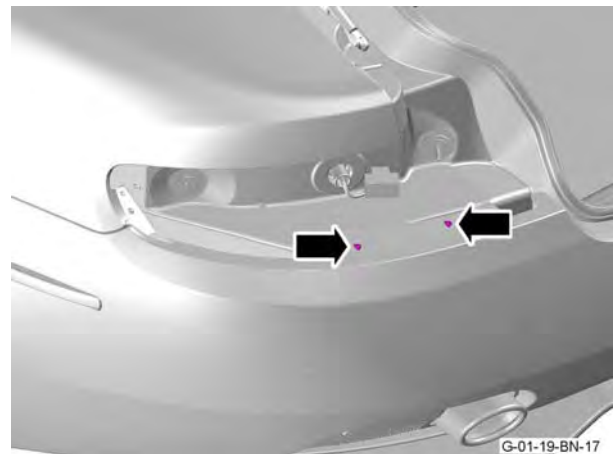


25. Remove the two bolts that attach the rear bumper cover to the body.

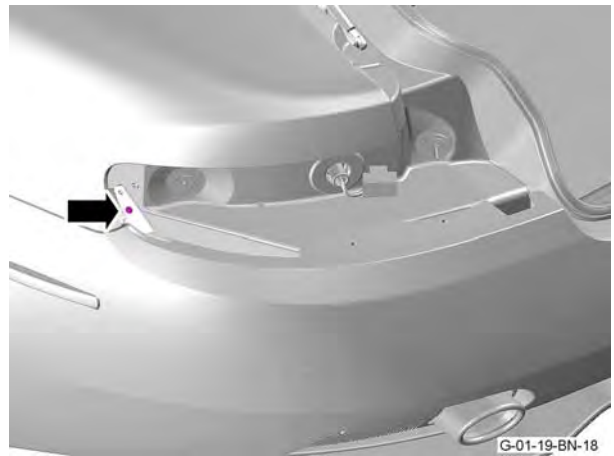


26. Lower the vehicle.

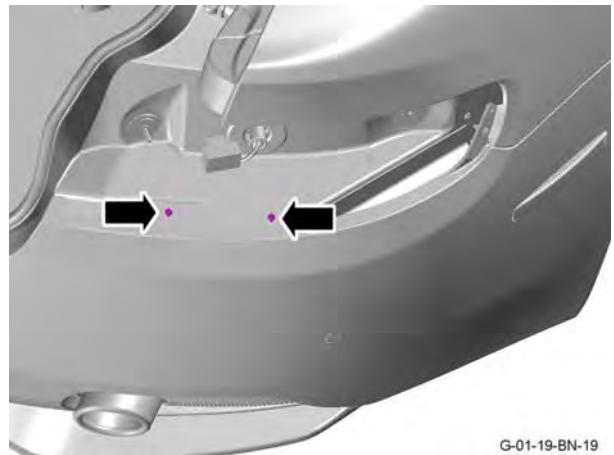
27. Remove the two Torx screws that attach the rear bumper cover to the body.



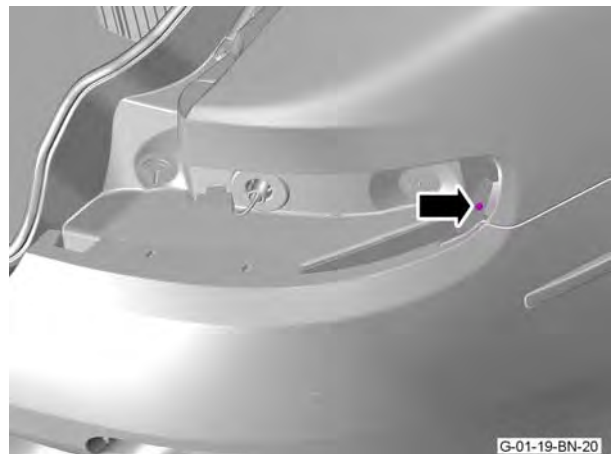
28. Remove the screw that attaches the rear bumper cover to the body.



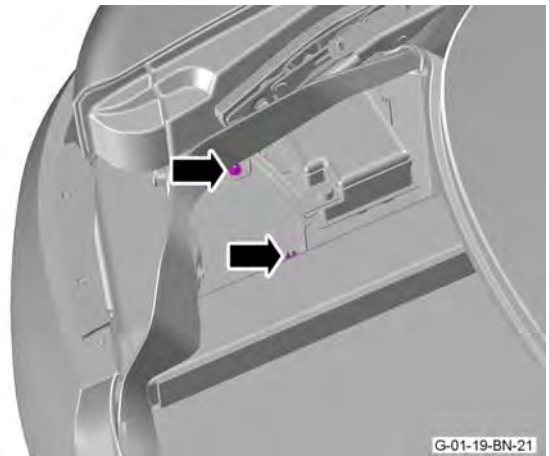
29. Remove the two Torx screws that attach the rear bumper cover to the body.



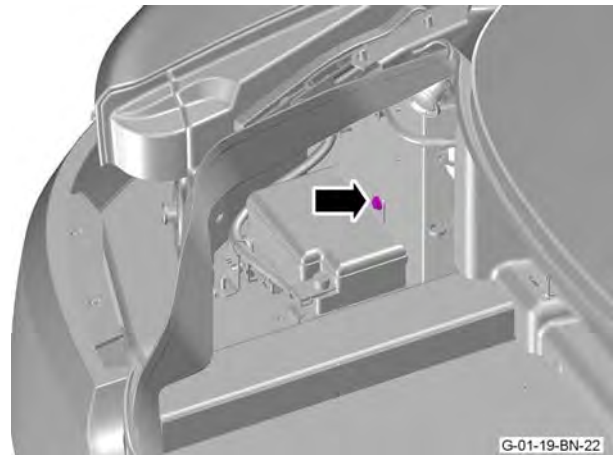
30. Remove the screw that attaches the rear bumper cover to the body.



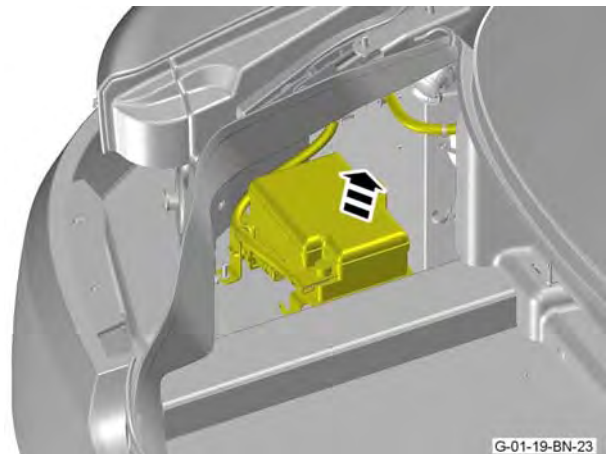
31. Remove the two nuts that attach the fuse box bracket to the body.



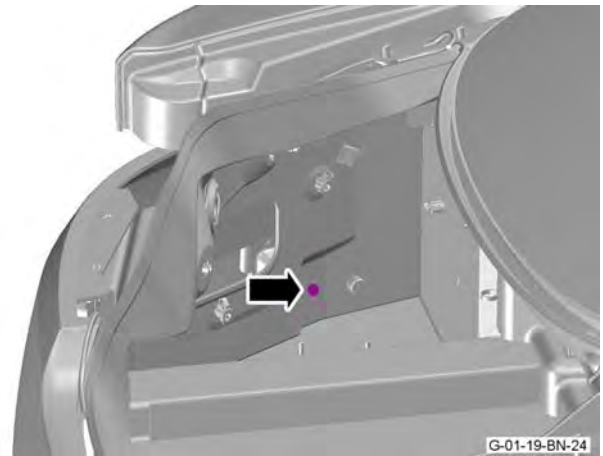
32. Remove the bolt that attaches the fuse box bracket to the body.



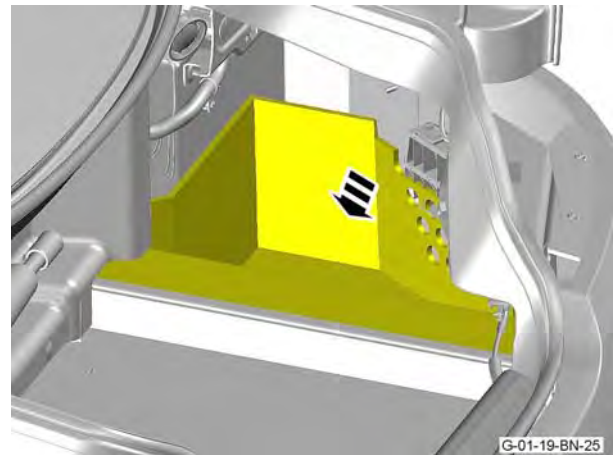
33. Move the fuse box to get access to the bolt for the rear bumper cover.



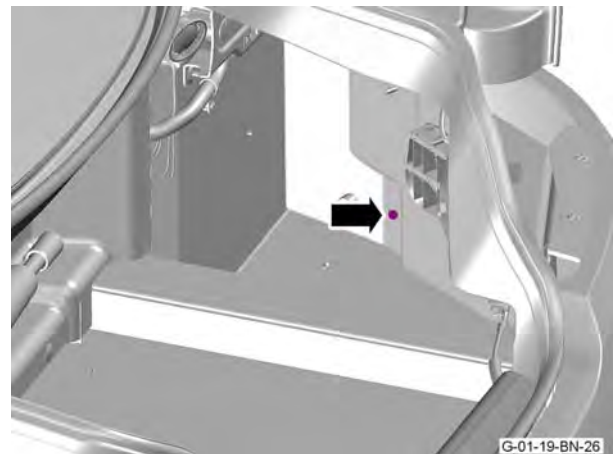
34. Remove the bolt that attaches the rear bumper cover to the body.



35. Move the bottom right side carpet to get access to the bolt for the rear bumper cover.



36. Remove the bolt that attaches the rear bumper cover to the body.



37. Release the rear bumper cover from the Velcro that attaches it to the body.



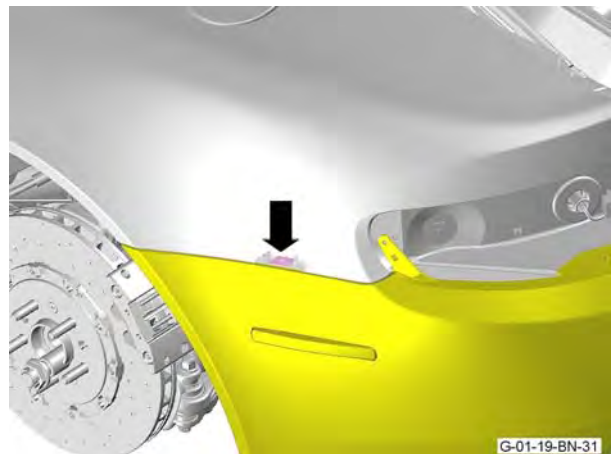
G-01-19-BN-29

38. Release the rear bumper cover from the two clips that attach it to the body.



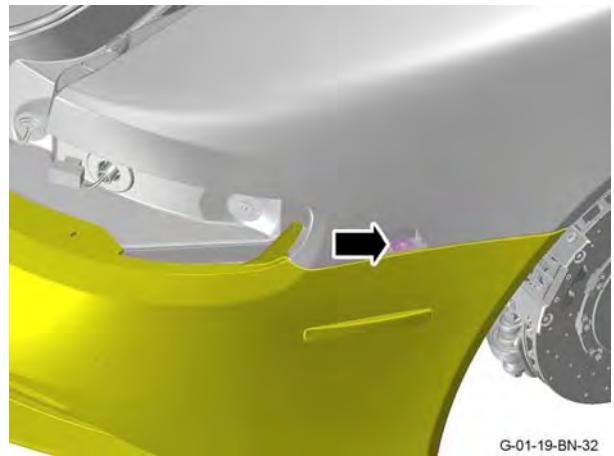
G-01-19-BN-30


39. Release the rear bumper cover from the clip that attaches it to the body.



G-01-19-BN-31

40. Release the rear bumper cover from the clip that attaches it to the body.




41.  **Caution: You must have the aid of one more technician to do the step that follows. This will help to prevent damage to the vehicle.**

Remove the rear bumper cover.



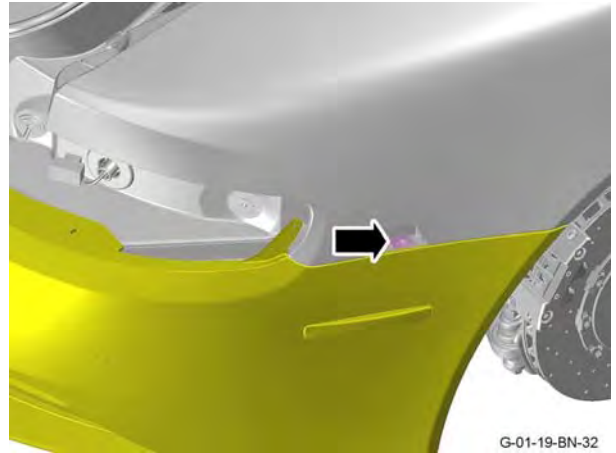
Install

1.  **Caution: You must have the aid of one more technician to do the step that follows. This will help to prevent damage to the vehicle.**

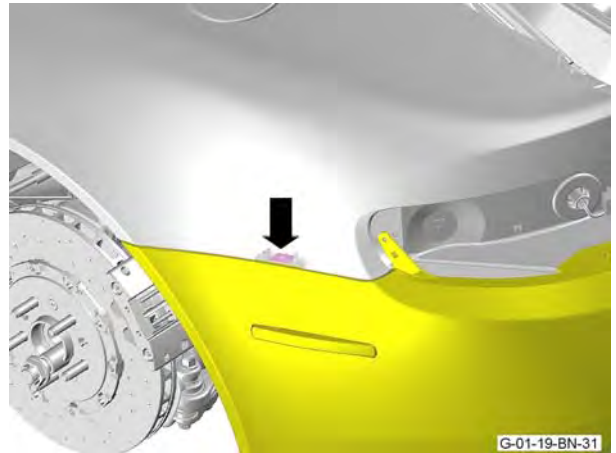
Put the rear bumper cover into position.



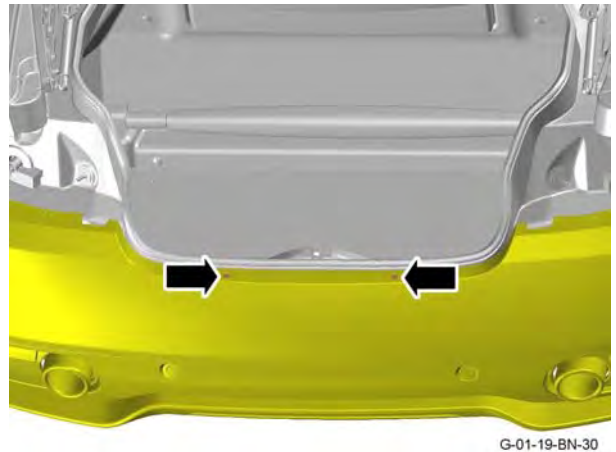
2. Install the rear bumper cover to the clip that attaches it to the body.



3. Install the rear bumper cover to the clip that attaches it to the body.



4. Install the rear bumper cover to the two clips that attach it to the body.

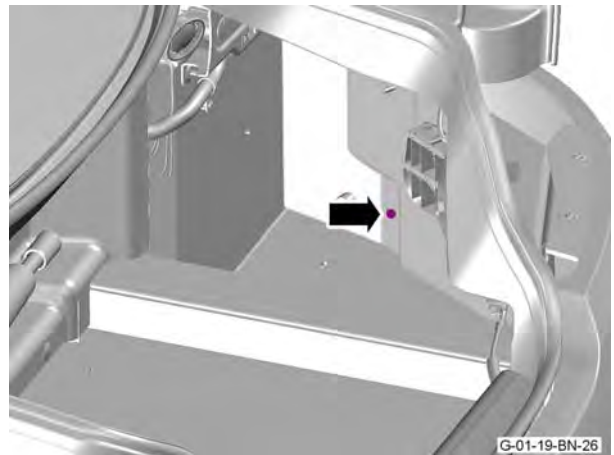


5. Install the rear bumper cover to the Velcro that attaches it to the body.



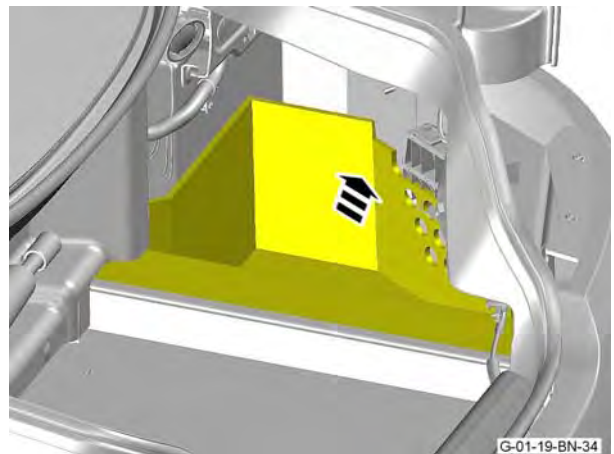
G-01-19-BN-29

6. Install and torque the bolt that attaches the rear bumper cover to the body to 6 Nm.



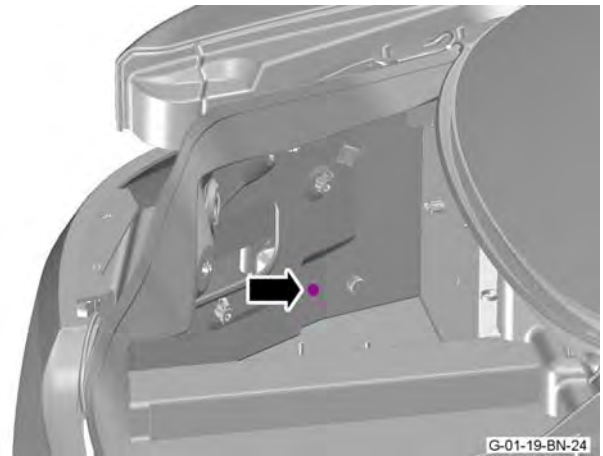
G-01-19-BN-26

7. Move the bottom right side carpet into the correct position.

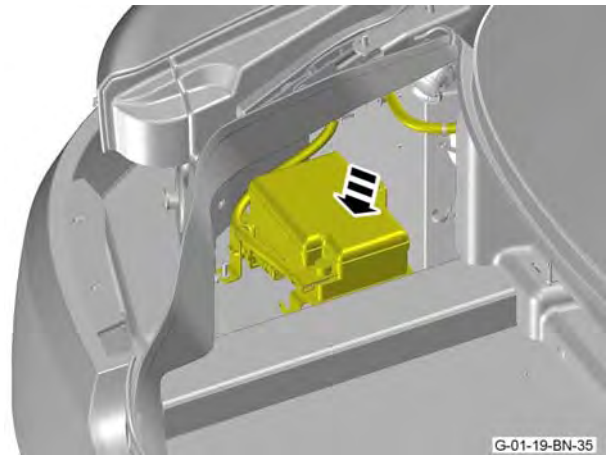


G-01-19-BN-34

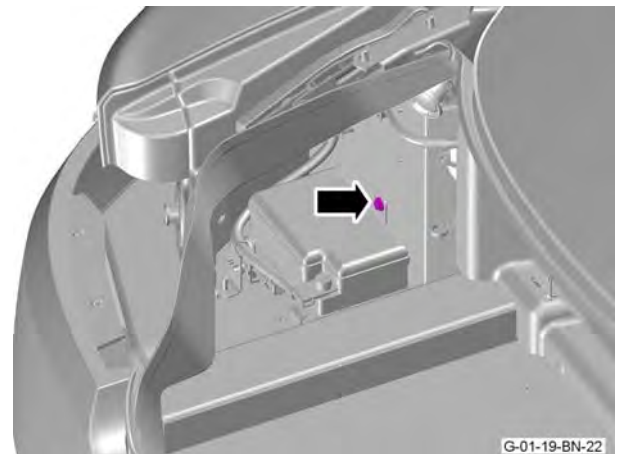
8. Install and torque the bolt that attaches the rear bumper cover to the body to 6 Nm.



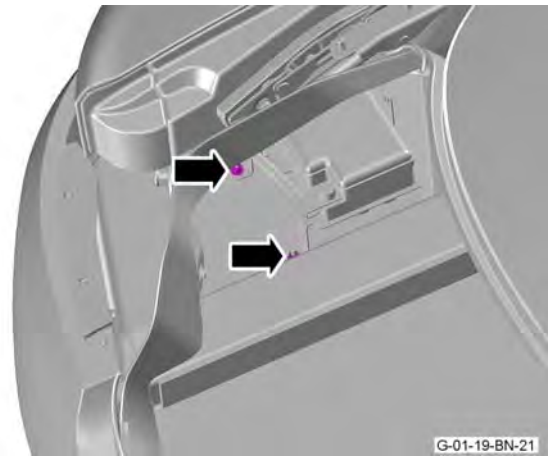
9. Move the fuse box into the correct position.



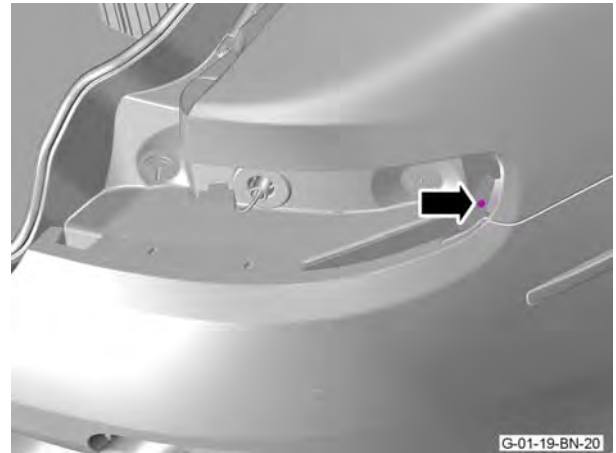
10. Install and torque the bolt that attaches the fuse box bracket to the body to 10 Nm.



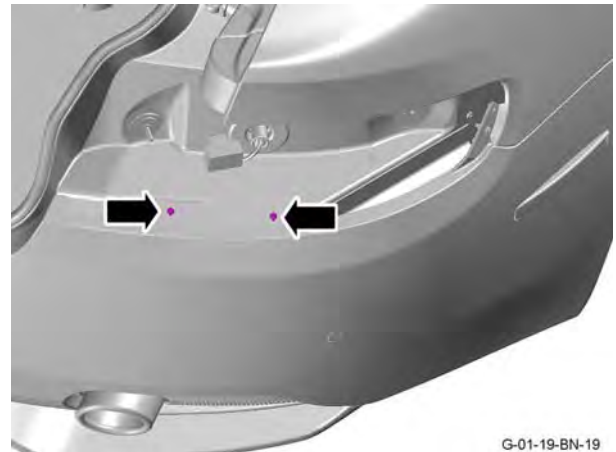
11. Install and torque the two nuts that attach the fuse box bracket to the body to 5 Nm.



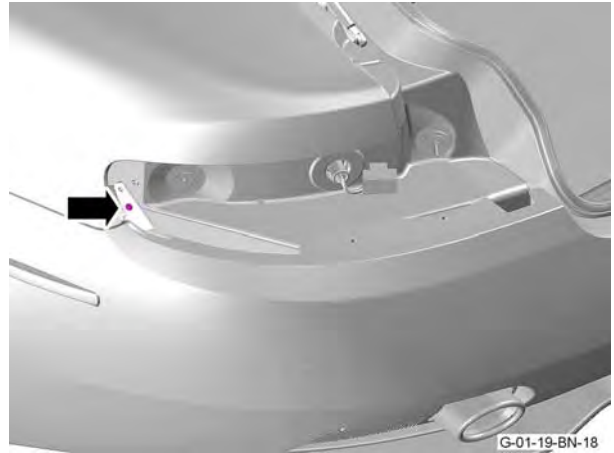
12. Install and tighten the screw that attaches the rear bumper cover to the body.



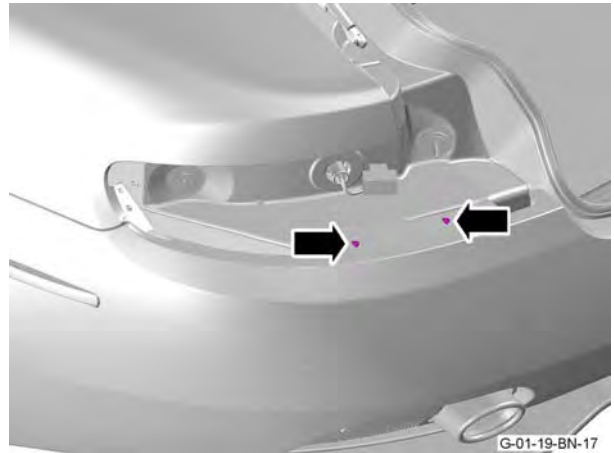
13. Install and tighten the two Torx screws that attach the rear bumper cover to the body.



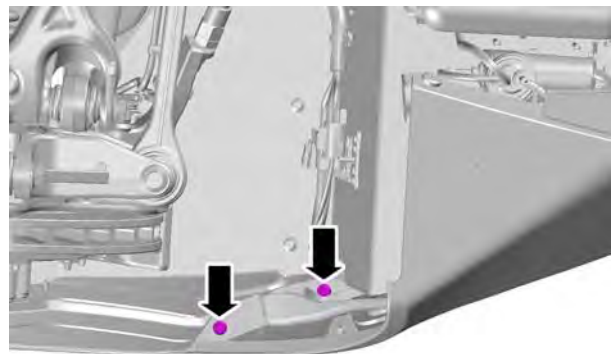
14. Install and tighten the screw that attaches the rear bumper cover to the body.



15. Install and tighten the two Torx screws that attach the rear bumper cover to the body.

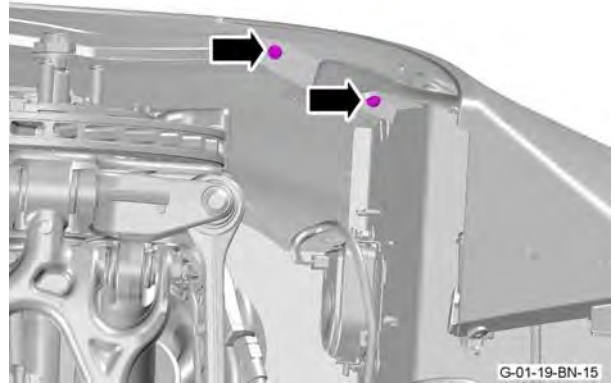


16. Lift the vehicle.
17. Install and torque the two bolts that attach the rear bumper cover to the body to 9 Nm.

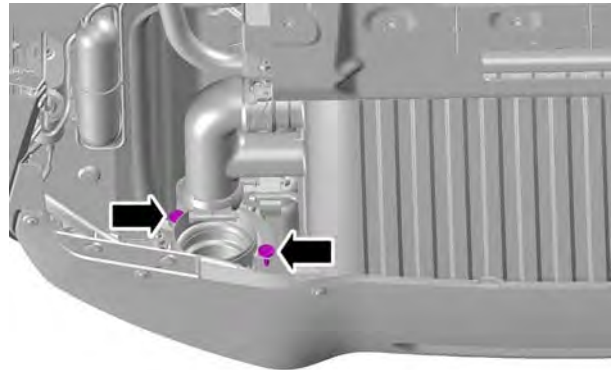


G-01-19-BN-16

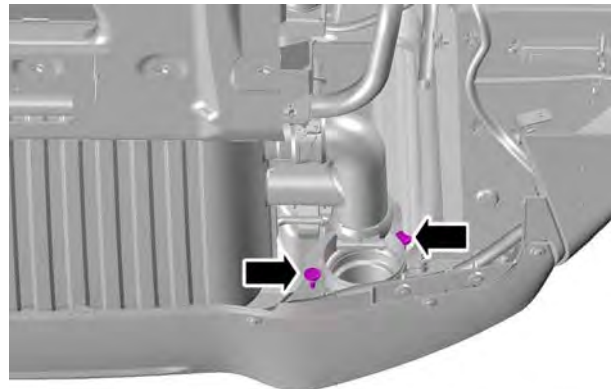
18. Install and torque the two bolts that attach the rear bumper cover to the body to 9 Nm.



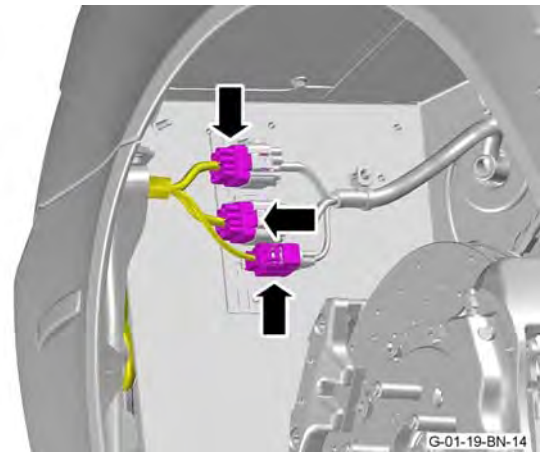
19. Install and torque the two Torx screws that attach the right side exhaust finisher to the body to 9 Nm.



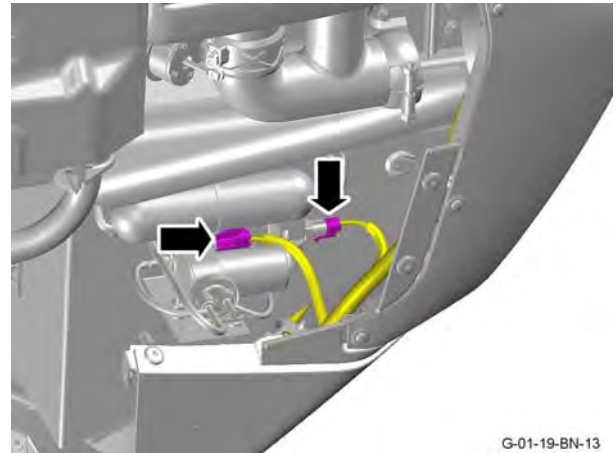
20. Install and torque the two Torx screws that attach the left side exhaust finisher to the body to 9 Nm.



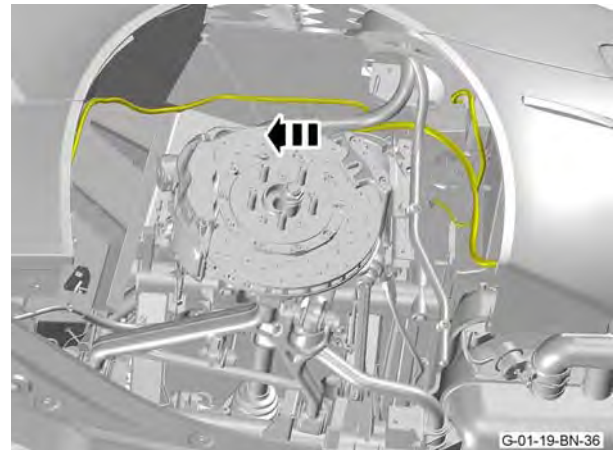
21. Connect the three electrical connectors to the wiring harness for the cabin.



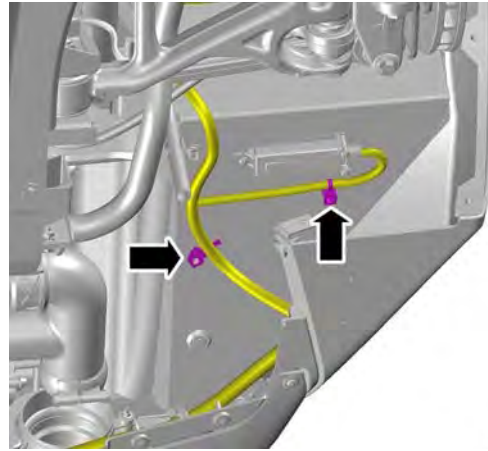
22. Connect the two electrical connectors to the vacuum pump for the exhaust valves.



23. Move the wiring harness for the rear bumper cover into the correct position.

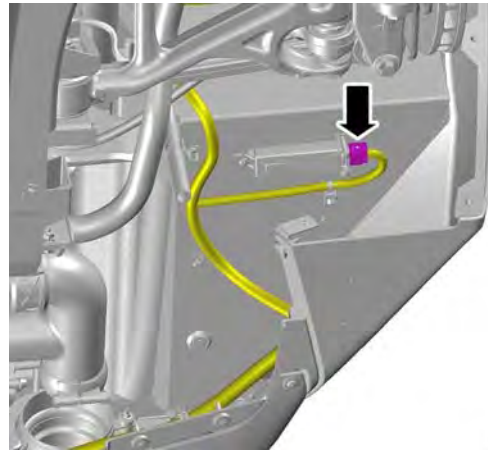


24. Install the wiring harness for the rear bumper cover to the two clips that attach it to the body.



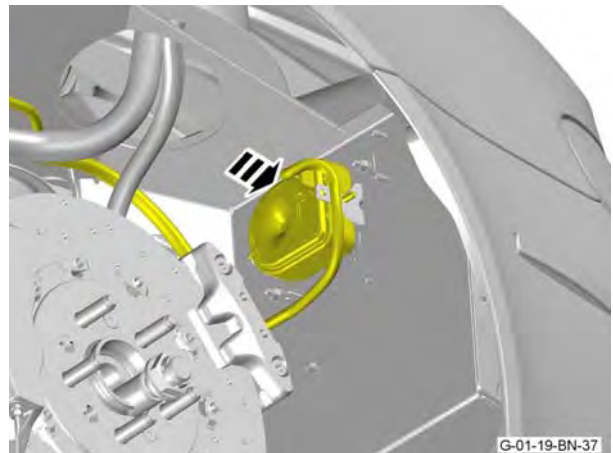
G-01-19-BN-10

25. Connect the electrical connector to the TPMS antenna.



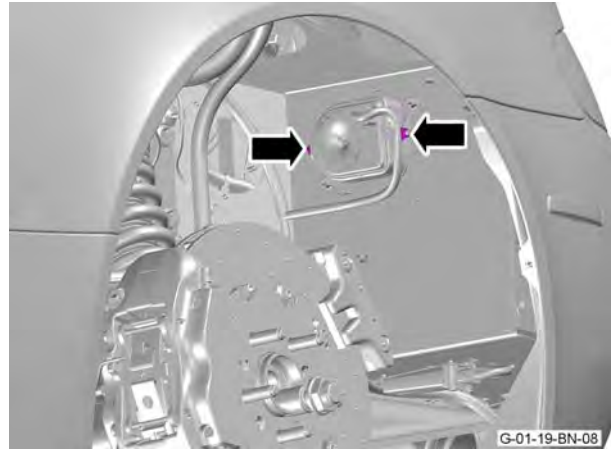
G-01-19-BN-09

26. Install the siren to the body.

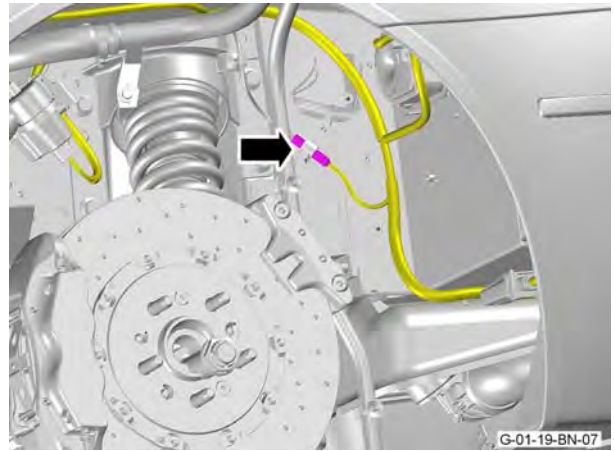


G-01-19-BN-37

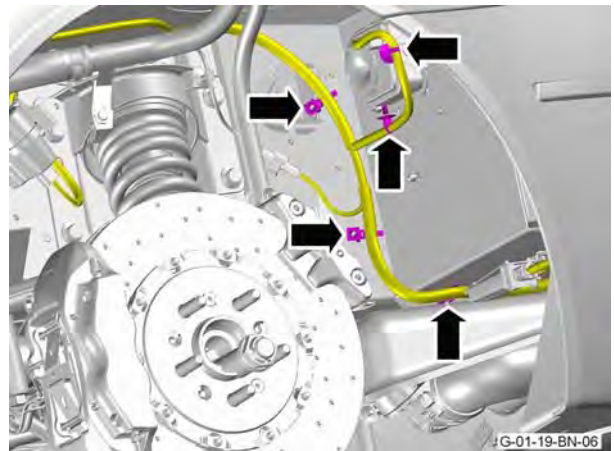
27. Install and torque the two nuts that attach the siren to the body to 9 Nm.



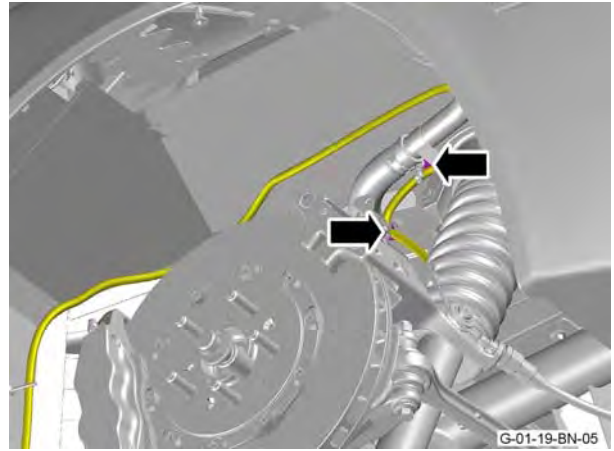
28. Connect the electrical connector to the adaptive damper.




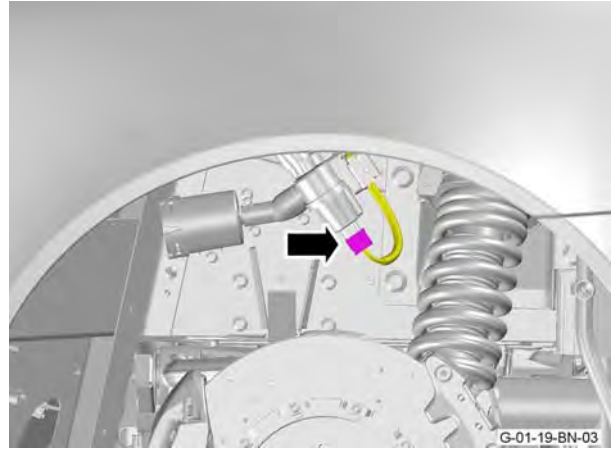
29. Install the wiring harness for the rear bumper cover to the five clips that attach it to the body.



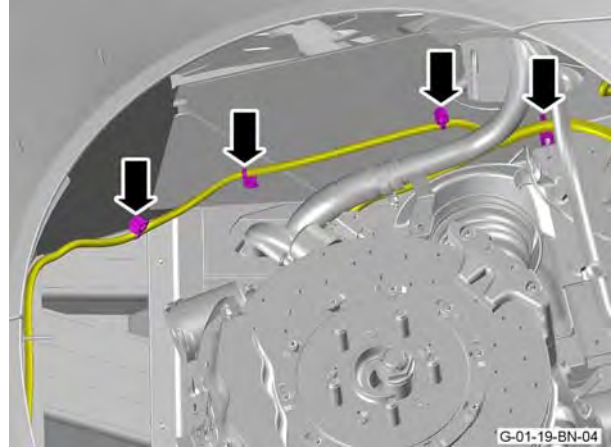
30. Install the wiring harness for the rear bumper cover to the two clips that attach it to the body.



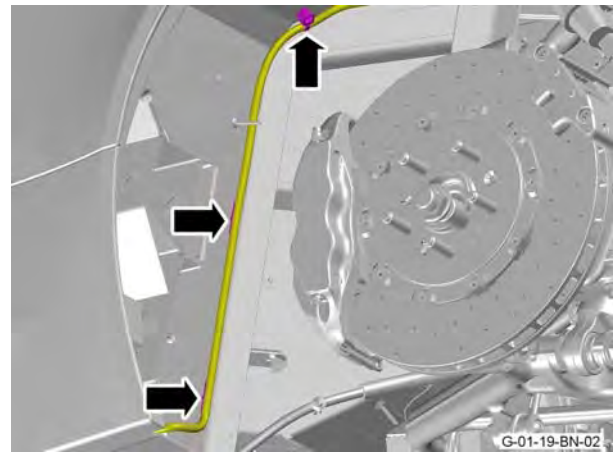
31.  *Note: This step only applies to NAS vehicles.*
Connect the electrical connector to the DMTL filter.



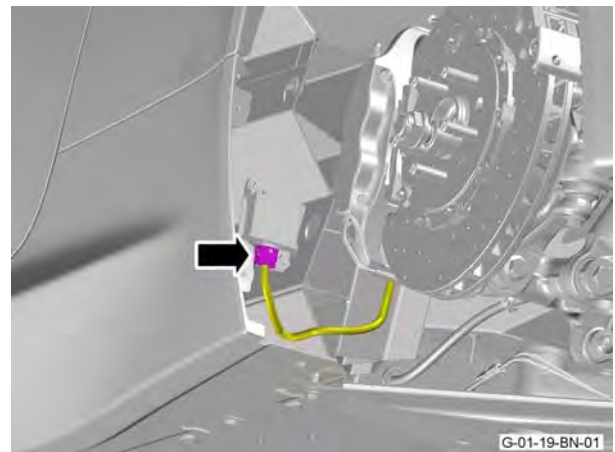
32. Install the wiring harness for the rear bumper cover to the four clips that attach it to the body.



33. Install the wiring harness for the rear bumper cover to the three clips that attach it to the body.



34. Connect the electrical connector to the trigger for the TPMS.









35. Install the right side rear lamp assembly (17.03.AB - Right Side Rear Lamp Assembly).
[\[Open Workshop Manual Procedure\]](#)
36. Install the left side rear lamp assembly (17.03.AA - Left Side Rear Lamp Assembly).
[\[Open Workshop Manual Procedure\]](#)
37. Install the rear left side wheel-arch liner (01.02.JB - Rear Left Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)
38. Install the rear right side wheel-arch liner (01.02.HB - Rear Right Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)
39. Install the rear wheels and tyres (04.04.ED - Wheels and Tyres - Two).
[\[Open Workshop Manual Procedure\]](#)
40. Do the battery connection procedure (14.01.CA - Battery Disconnection and Connection Procedure).
[\[Open Workshop Manual Procedure\]](#)

Published date: 2011-04-19 Procedure last changed: 2015-06-25 16:39:17

[Small](#) [Normal](#) [Large](#)






01.20.CD Driver's Airbag (Remove and Install New Part)

-   WSM Data
-   Included Procedures
-   Is Used In

Removal

1. Put the Emotion Control Unit (ECU) into the docking station at position 2 to release the Electronic Steering Column Lock (ESCL).
2. Do the battery disconnection procedure (14.01.CA - Battery Disconnection and Connection Procedure).

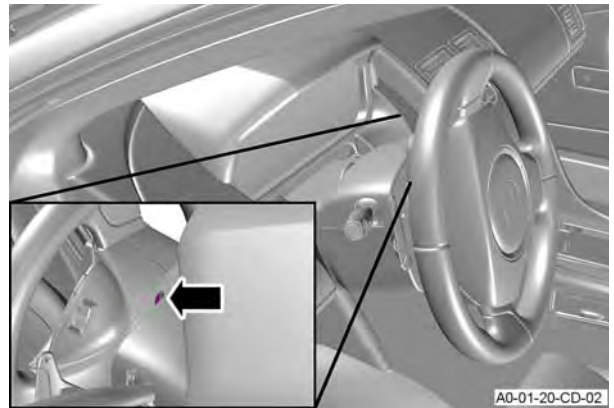
[\[Open Workshop Manual Procedure\]](#)

3.  **Warning: Airbags inflate very quickly and with very high force. Thus there is a risk of death or serious injury such as fractures, facial and eye injuries or internal injuries. This can be due to occupants who are not properly held by the seat belts or who are not sitting correctly when the airbags deploy. The risk of injury from an airbag deploy is highest close to the trim that covers the airbag.**
 -  **Warning: The whole sequence of airbag deployment, from when the impact is sensed to full inflation of the airbag occurs in less than one second.**
 -  **Warning: Handle the airbag unit carefully. The airbag unit has an explosive charge in it. If you do not handle the unit carefully, the charge can operate and cause injury.**
 -  **Warning: Wait for two minutes before you continue with this procedure to make sure that there is no power to the airbag system.**
 -  **Caution: Any accident that has used the full function of the safety belts can cause the webbing to be elongated and the torsion bar to be twisted. Because of this, if a vehicle is involved in an accident that causes the deployment of the airbag(s), all of the safety belts that were in operation at the time of the accident must be renewed.**

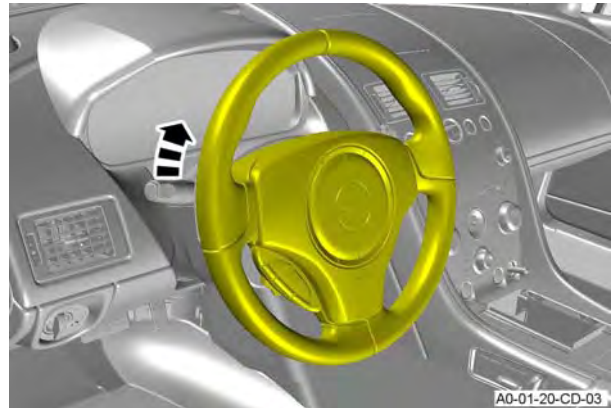
4. Turn the steering wheel counterclockwise to get access to the screws that attach the driver's airbag to the steering wheel.



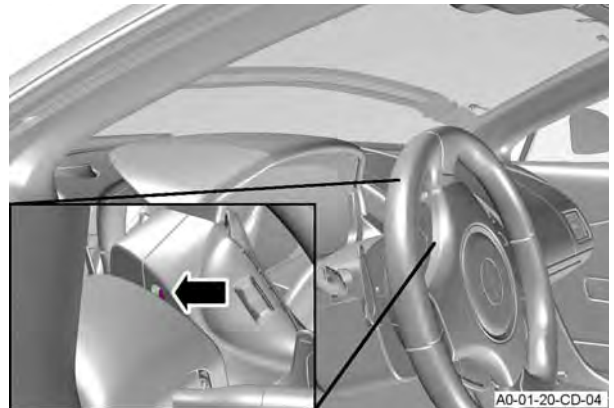
5. Remove the screw that attaches the driver's airbag to the steering wheel.



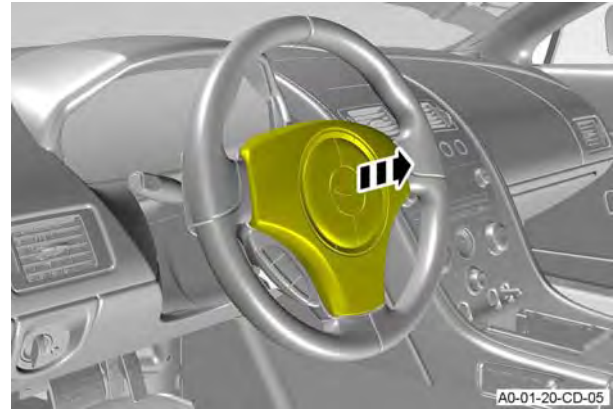
6. Turn the steering wheel clockwise to get access to the screws that attach the driver's airbag to the steering wheel.



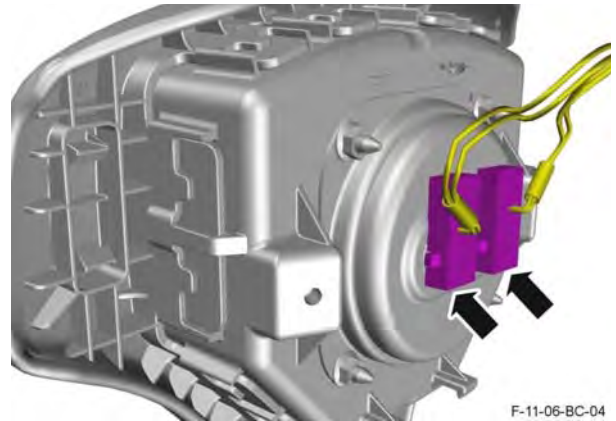
7. Remove the screw that attaches the driver's airbag to the steering wheel.



8. Move the driver's airbag to get access to the two electrical connectors.



9. Disconnect the two electrical connectors from the driver's airbag.



10. Remove the driver's airbag.



11. Store the driver's airbag in a safe area.

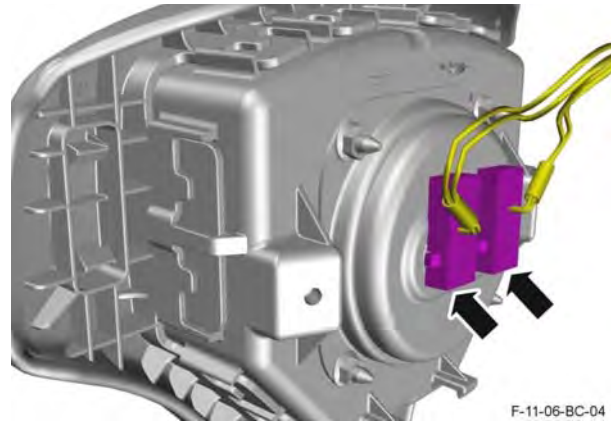
Install

1. Collect the driver's airbag from the safe area.

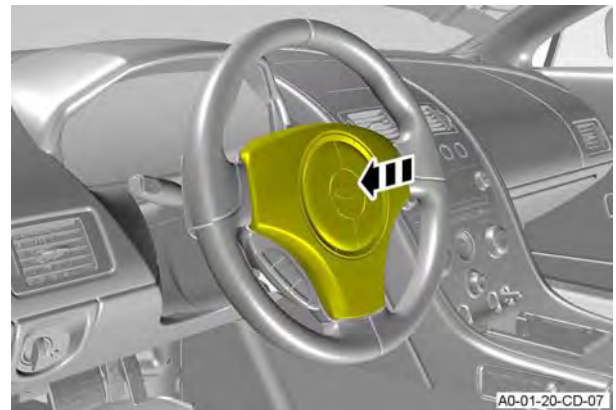
- Put the driver's airbag into position.



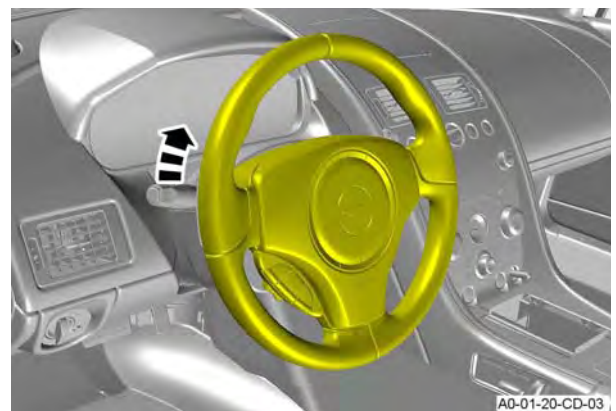
- Connect the two electrical connectors to the driver's airbag.



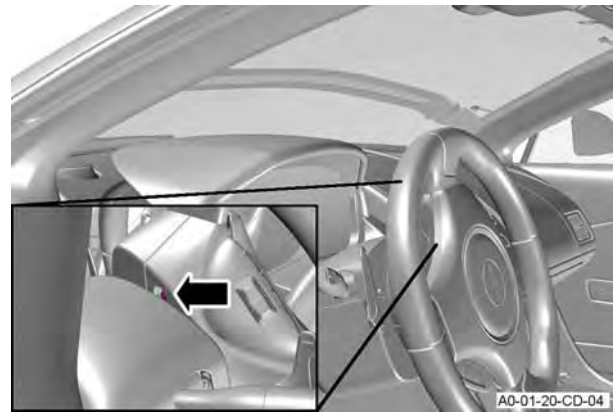
- Put the driver's airbag into the correct position.



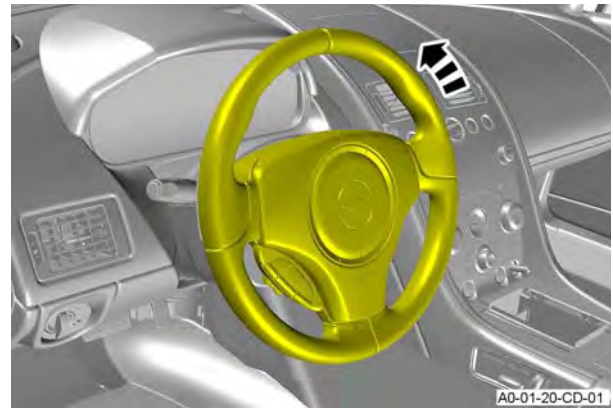
- Turn the steering wheel clockwise to get access to the screws that attach the driver's airbag to the steering wheel.



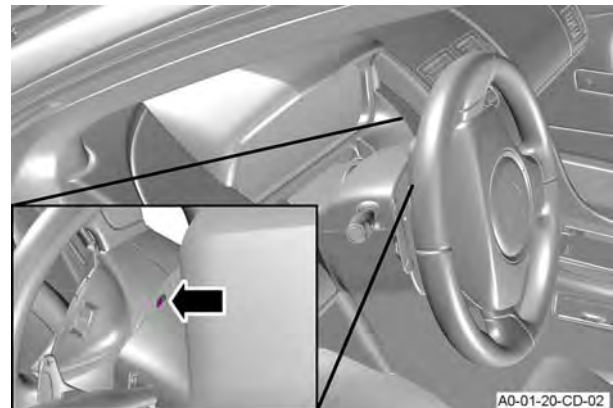
6. Install and torque the bolt that attaches the driver's airbag to the steering wheel to 9 Nm.



7. Turn the steering wheel counterclockwise to get access to the screws that attach the driver's airbag to the steering wheel.






8. Install and torque the bolt that attaches the driver's airbag to the steering wheel to 9 Nm.



9. Turn the steering wheel clockwise to its initial position.
10. Do the battery connection procedure (14.01.CA - Battery Disconnection and Connection Procedure).
[\[Open Workshop Manual Procedure\]](#)

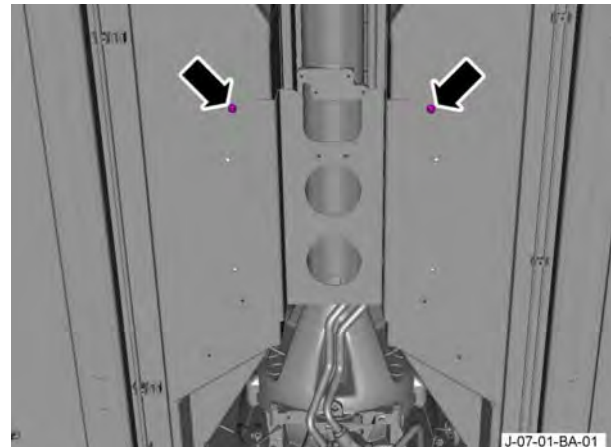
Published date: 2011-06-02 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****02.01.CA Rear Subframe (Remove for Access and Install)**

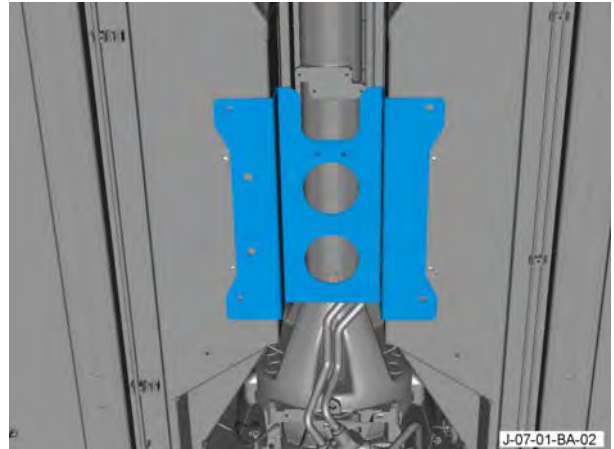
-  WSM Data
-  Included Procedures
-  Is Used In

Remove for Access

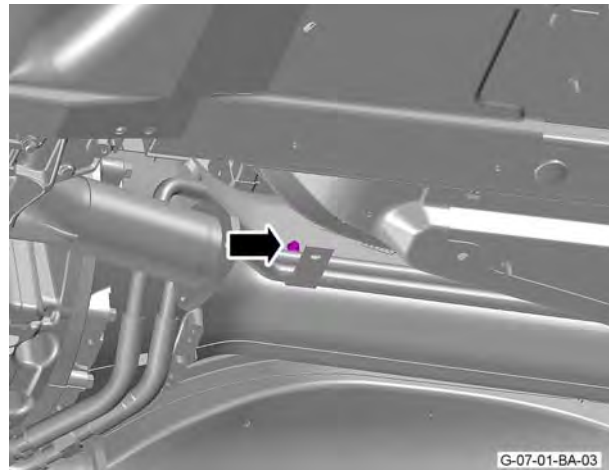
1. Do the battery disconnection procedure (14.01.CA - Battery Disconnection and Connection Procedure).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the rear right side wheel-arch liner (01.02.HB - Rear Right Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)
3. Remove the front floor heat shield (09.04.AA - Front Floor Heat Shield).
[\[Open Workshop Manual Procedure\]](#)
4. Drain the transmission oil (07.01.BD - Transmission Oil).
[\[Open Workshop Manual Procedure\]](#)
5. Drain the differential oil (07.01.CD - Differential Oil).
[\[Open Workshop Manual Procedure\]](#)
6. Remove the heat shield for the rear tunnel (02.06.BH - Heat Shield for the Rear Tunnel).
[\[Open Workshop Manual Procedure\]](#)
7. Remove the heat shield for the exhaust muffler (02.06.AG - Heat Shield for the Exhaust Muffler).
[\[Open Workshop Manual Procedure\]](#)
8. Remove the two bolts that attach the centre floor reinforcement to the body.



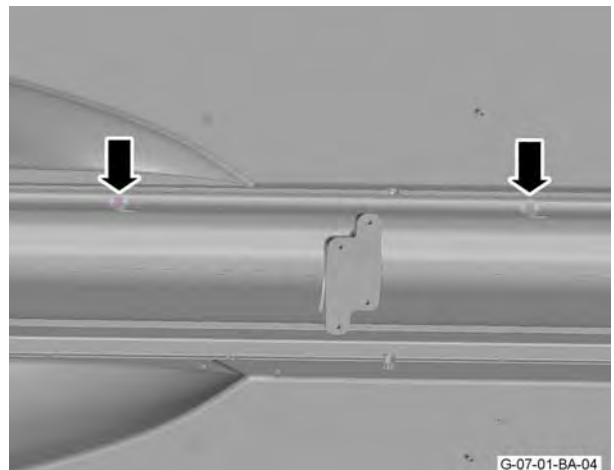
9. Remove the centre floor reinforcement.



10. Remove the bolt that attaches the pipes for the transmission oil cooler to the torque tube.

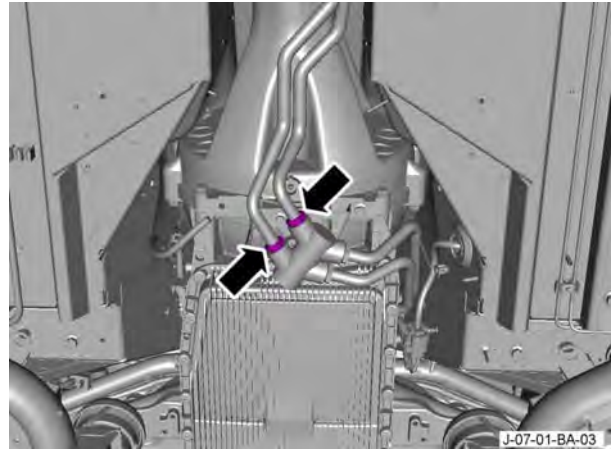


11. Remove the two bolts that attach the pipes for the transmission oil cooler to the torque tube.

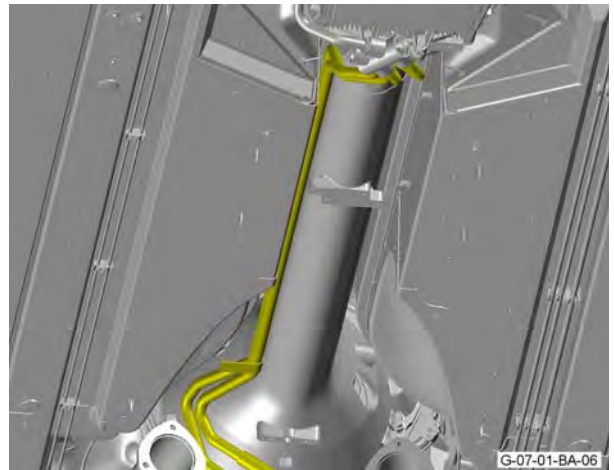


12.  *Note: Install applicable caps to seal the open ports.*

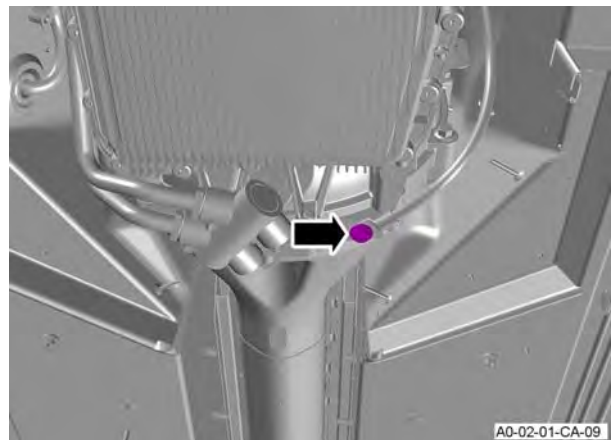
Disconnect the two pipe unions for the transmission oil cooler from the oil control thermostat.



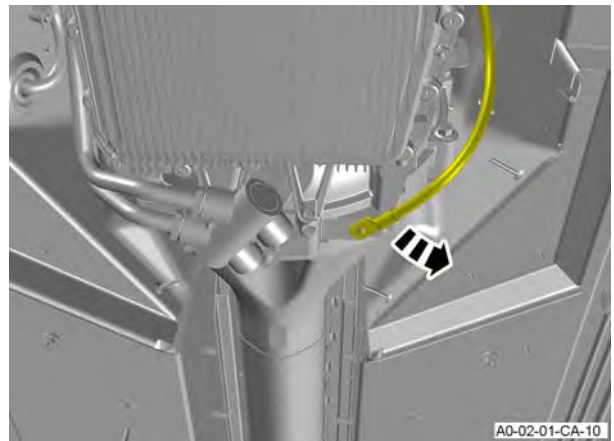
13. Move the pipes for the transmission oil cooler away from the torque tube.



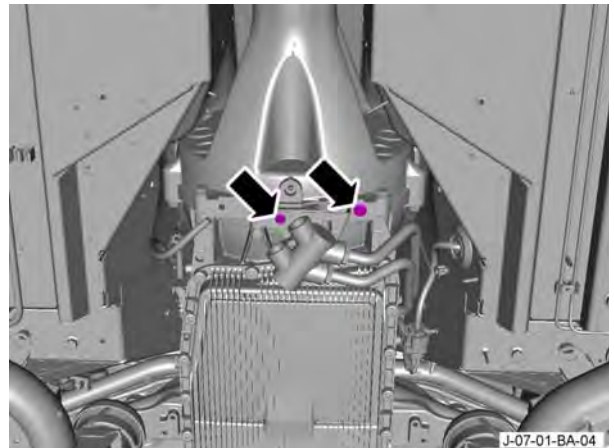
14. Remove the bolt that attaches the ground cable to the torque tube.



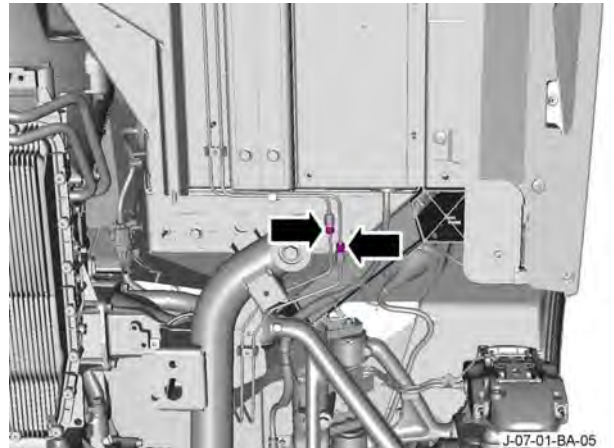
15. Move the ground cable away from the torque tube.



16. Remove the two bolts that attach the oil control thermostat to the torque tube.

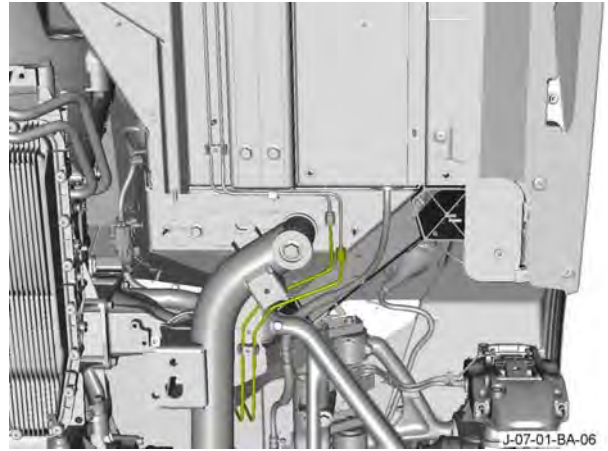


17. Loosen the two brake pipe unions that attach the rear brake pipes to the front brake pipes.

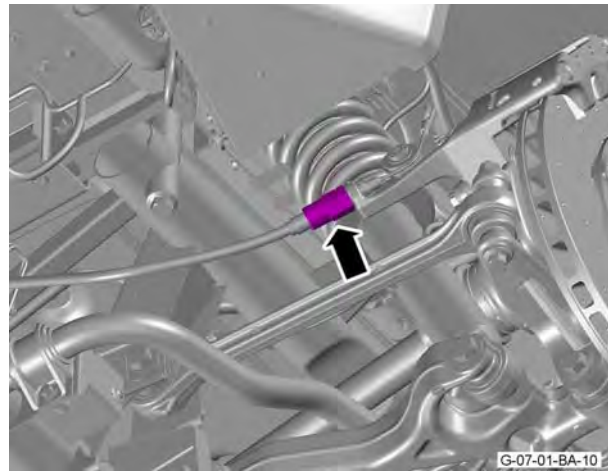


18.  *Note: Install applicable caps to seal the open ports.*

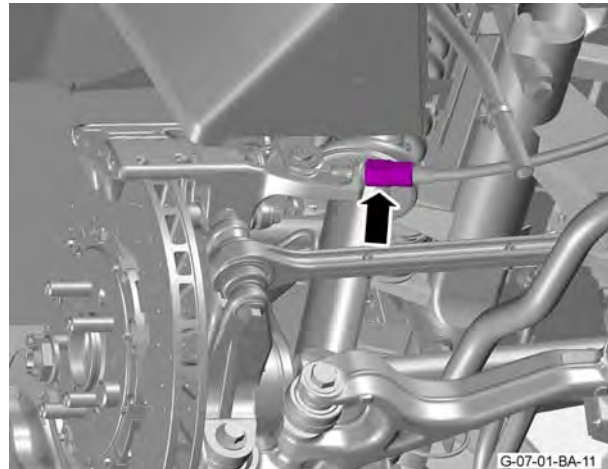
Disconnect the two front brake pipes from the two rear brake pipes.



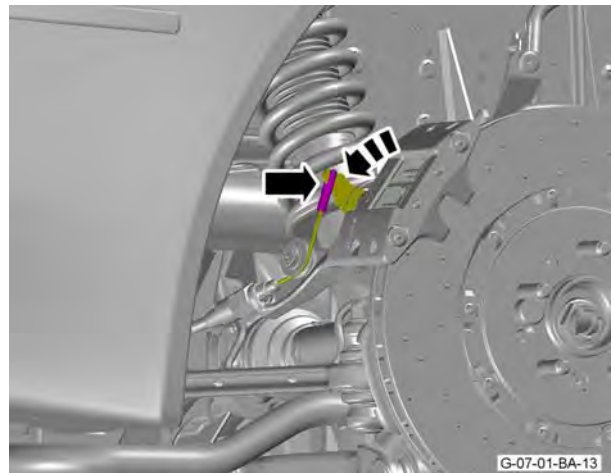
19. Loosen the adjustment nut on the right side handbrake caliper.



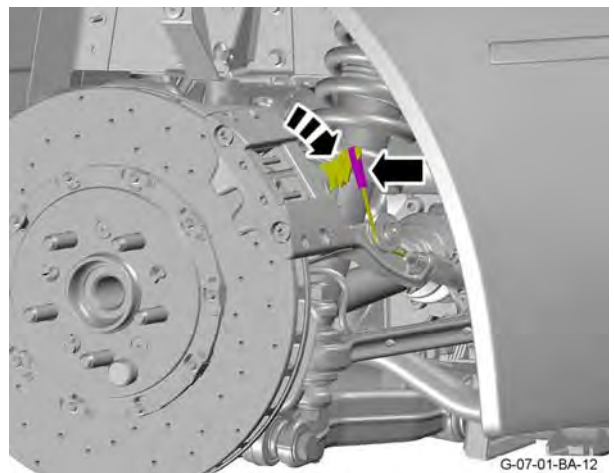
20. Loosen the adjustment nut on the left side handbrake caliper.



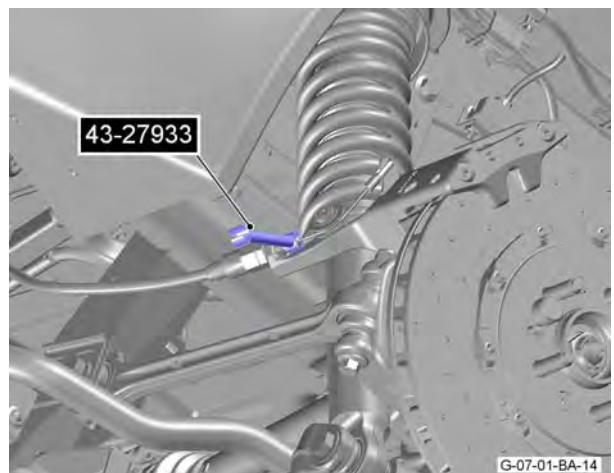
21. Release the handbrake cable eyelet from the right side handbrake caliper.



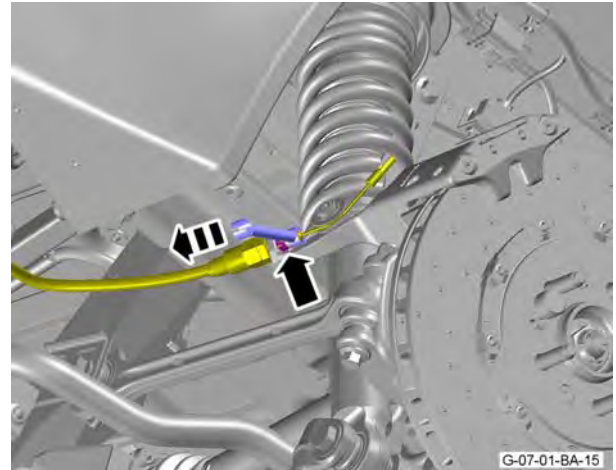
22. Release the handbrake cable eyelet from the left side handbrake caliper.



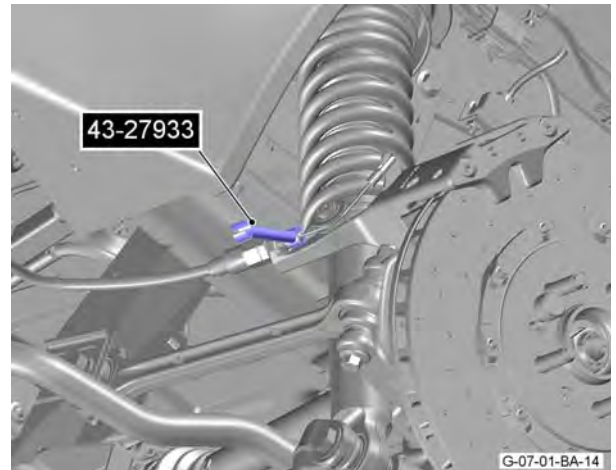
23. Install the special tool on the right side handbrake cable.



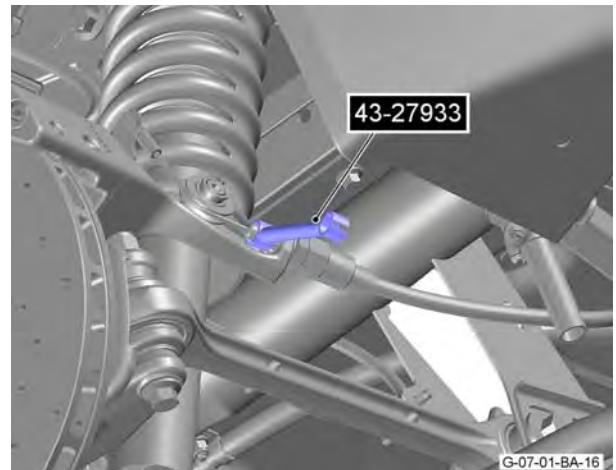
24. Use the special tool to release the right side handbrake cable from the right side handbrake caliper.



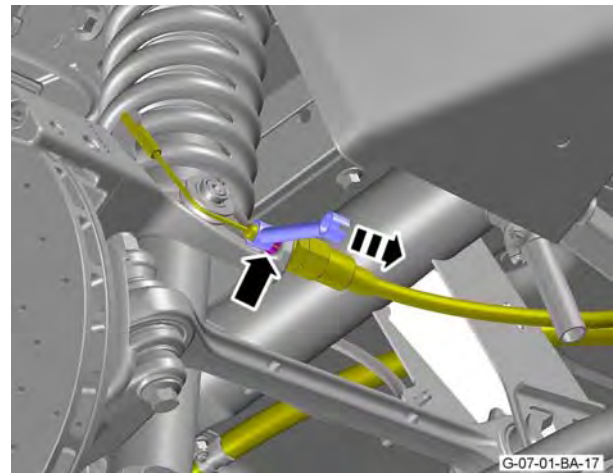
25. Remove the special tool from the right side handbrake cable.



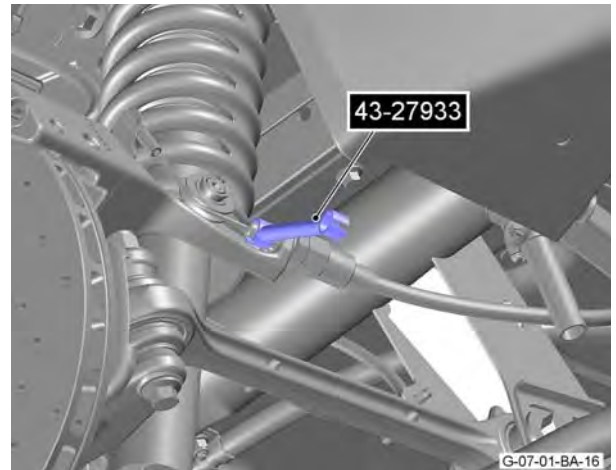
26. Install the special tool on the left side handbrake cable.



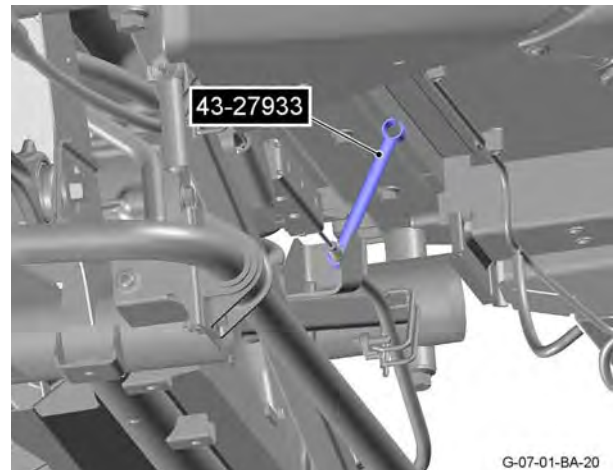
27. Use the special tool to release the left side handbrake cable from the left side handbrake caliper.



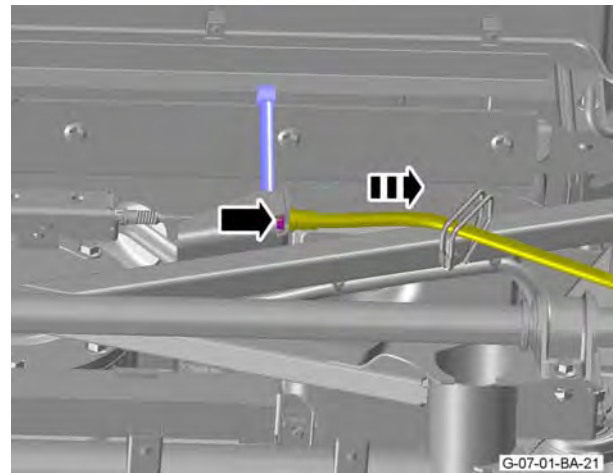
28. Remove the special tool from the left side handbrake cable.



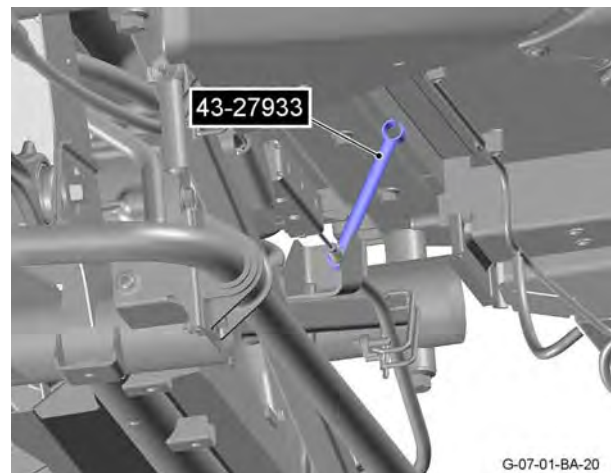
29. Install the special tool on the right side handbrake cable.



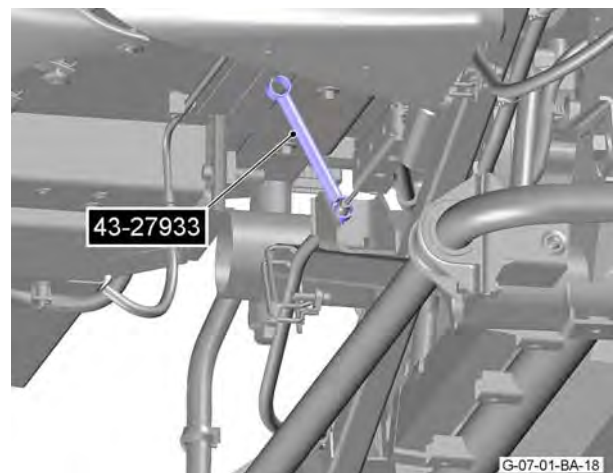
30. Use the special tool to release the right side handbrake cable from the rear subframe.



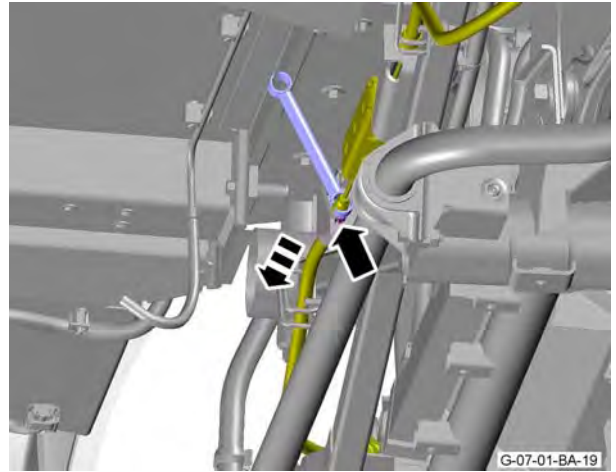
31. Remove the special tool from the right side handbrake cable.



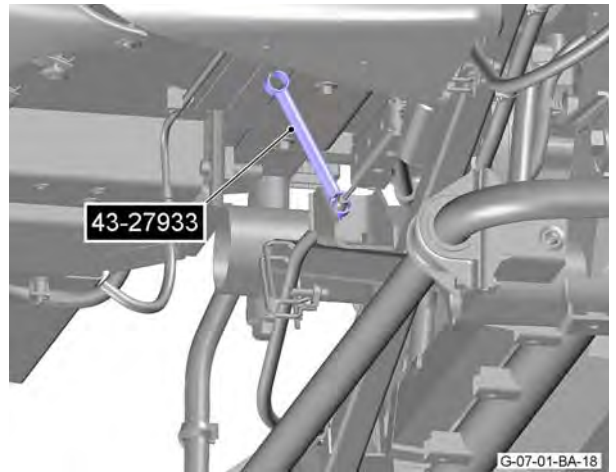
32. Install the special tool on the left side handbrake cable.



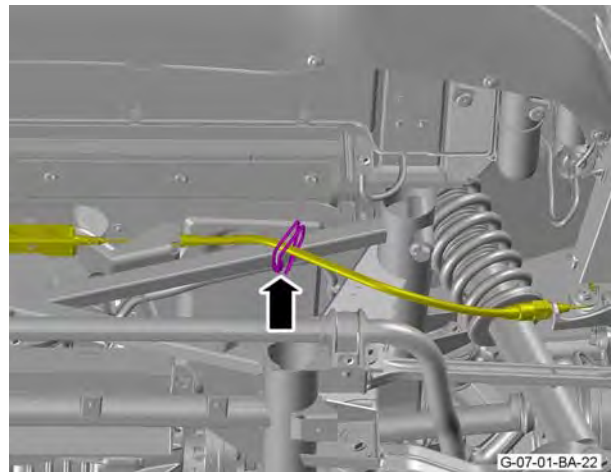
33. Use the special tool to release the left side handbrake cable from the rear subframe.



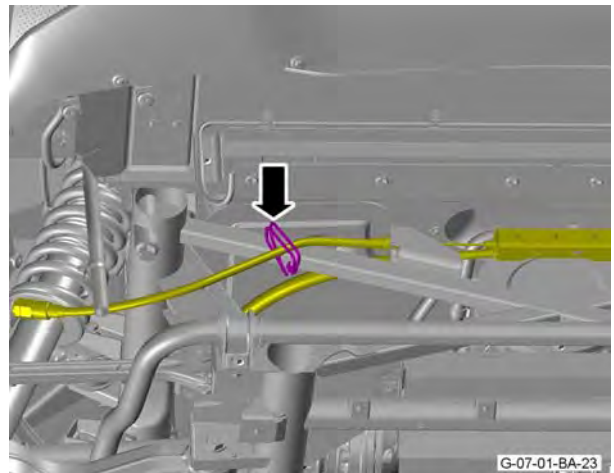
34. Remove the special tool from the left side handbrake cable.



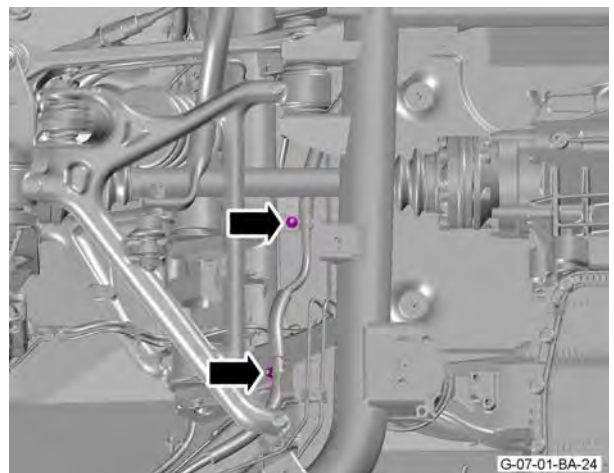
35. Release the right side handbrake cable from the clip that attaches it to the rear subframe.



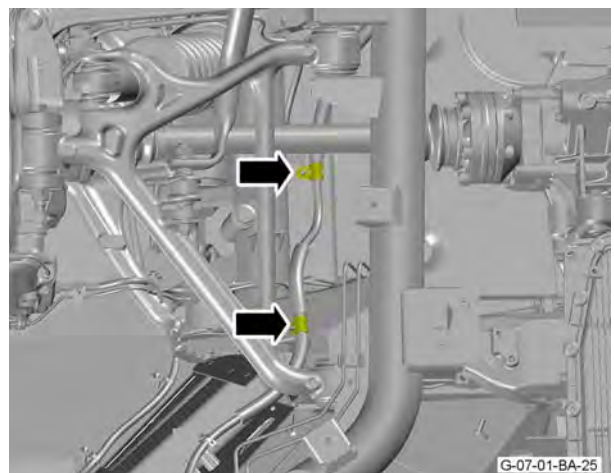
36. Release the left side handbrake cable from the clip that attaches it to the rear subframe.



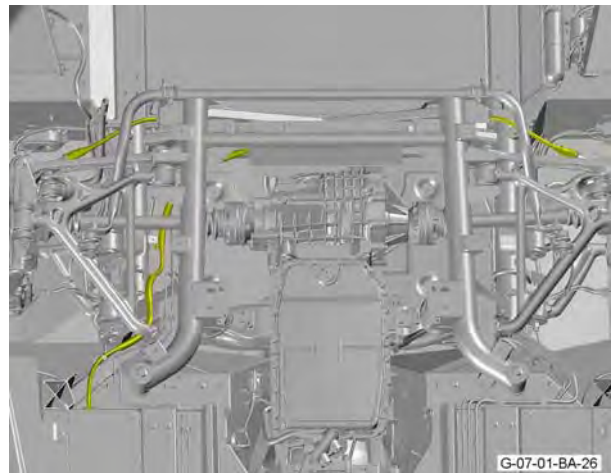
37. Remove the two nuts that attach the handbrake cable to the rear subframe.



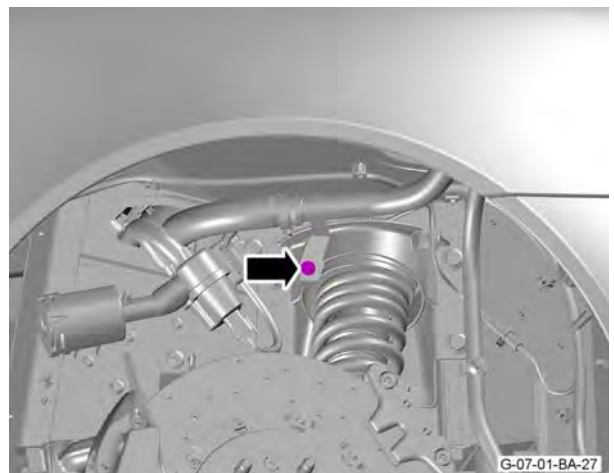
38. Release the handbrake cable from the two studs that attach it to the rear subframe.



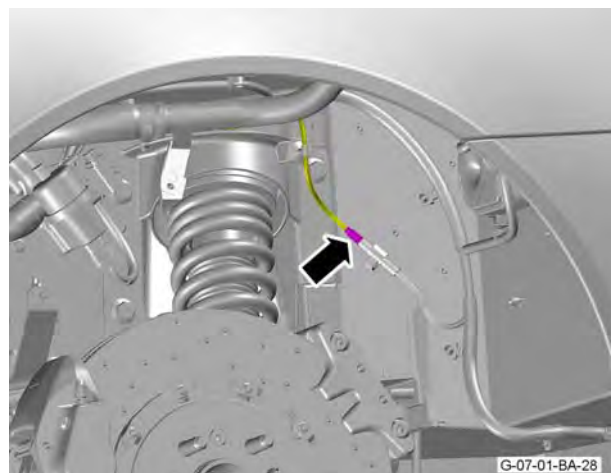
39. Move the handbrake cable away from the rear subframe.



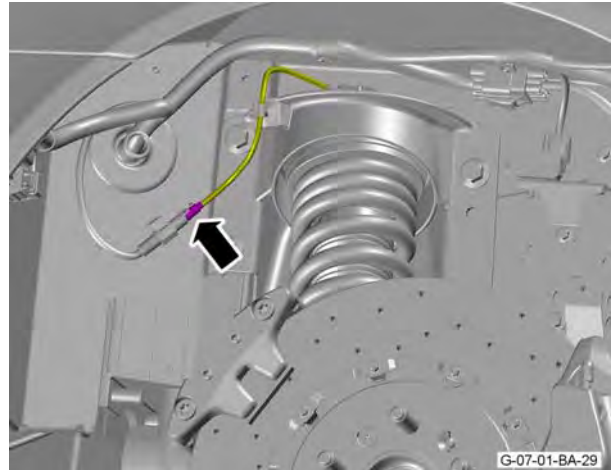
40. Remove the bolt that attaches the fuel filler pipe to the body.



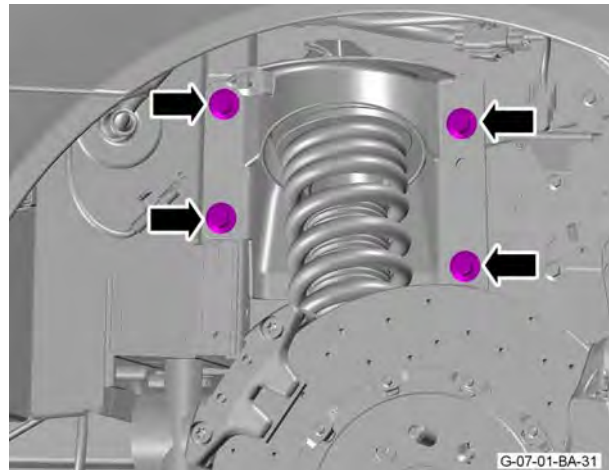
41. Disconnect the electrical connector from the wiring harness for the rear bumper.



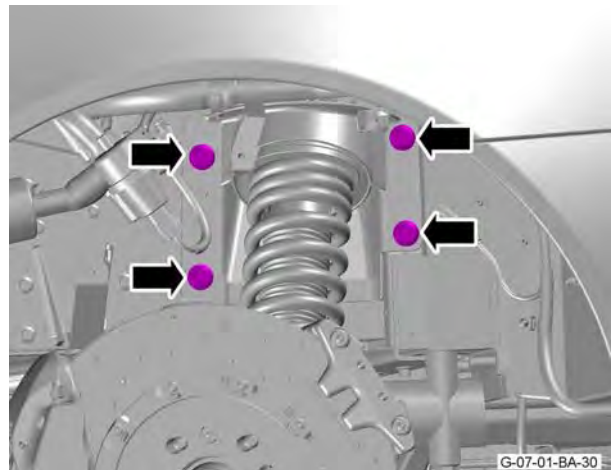
42. Disconnect the electrical connector from the wiring harness for the cabin.



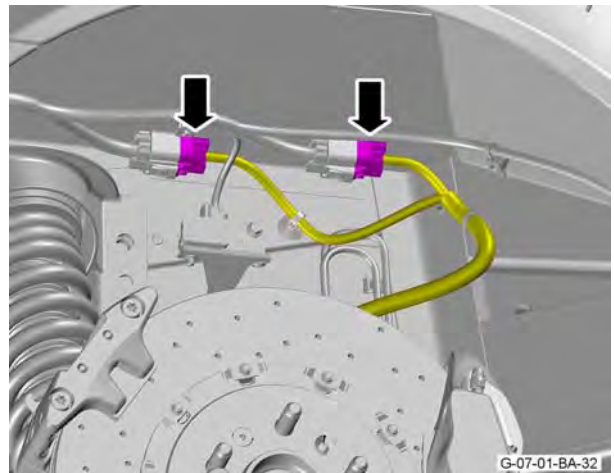
43. Remove the four bolts that attach the right side spring and damper mount plate to the body.



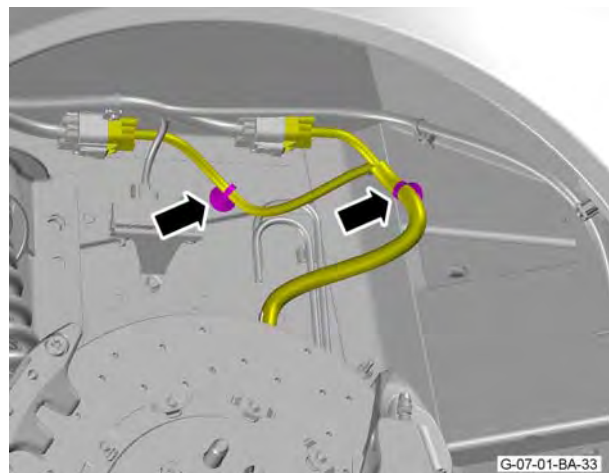
44. Remove the four bolts that attach the left side spring and damper mount plate to the body.



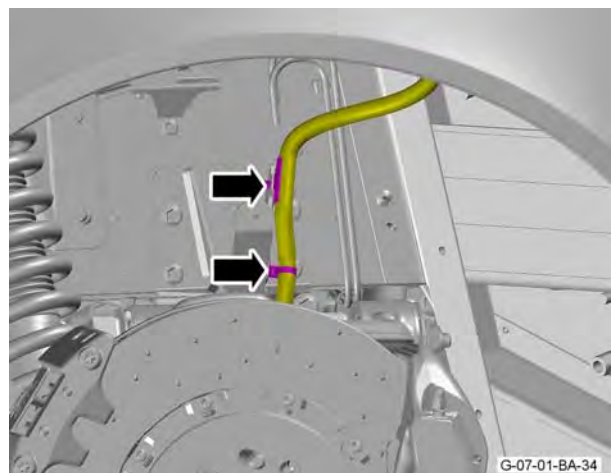
45. Disconnect the two electrical connectors from the wiring harness for the cabin.



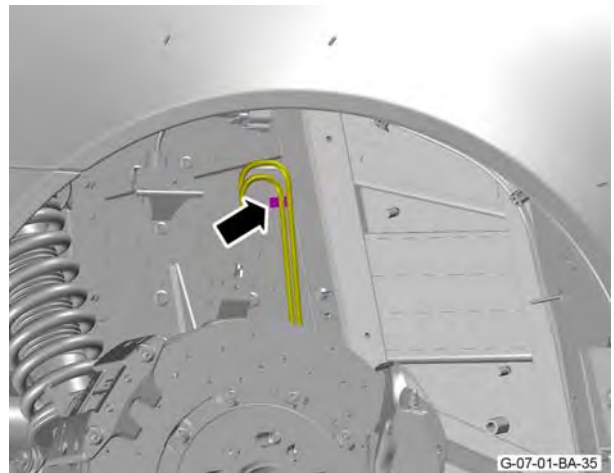
46. Release the wiring harness for the transmission from the two clips that attach it to the body.



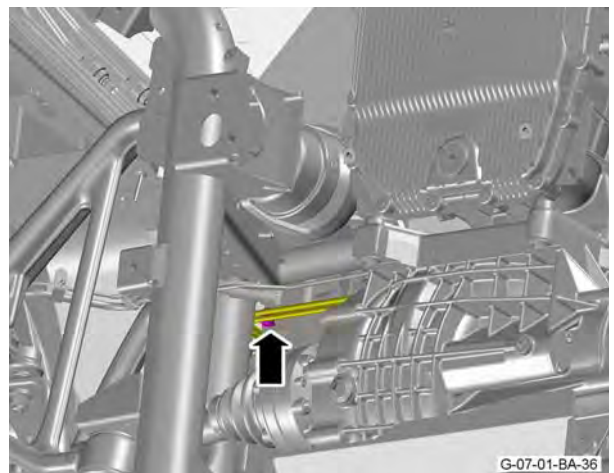
47. Release the wiring harness for the transmission from the two clips that attach it to the body.



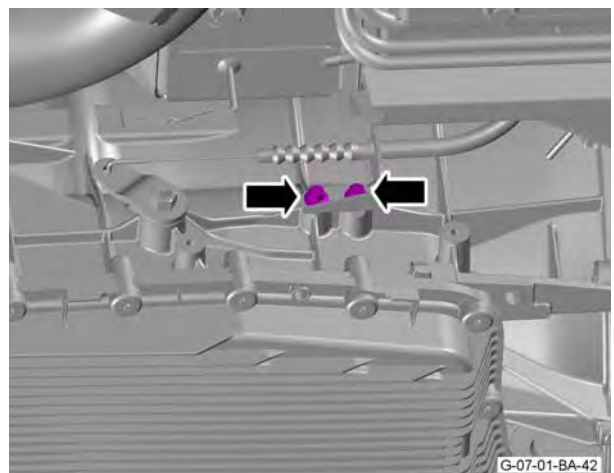
48. Release the breather pipes from the clip that attaches them to the body.



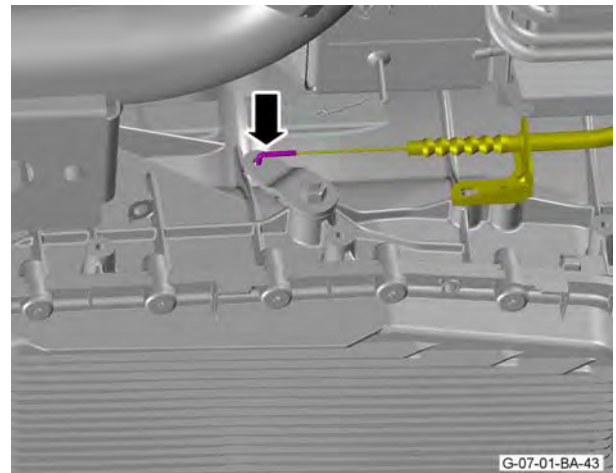
49. Release the breather pipes from the clip that attaches them to the body.



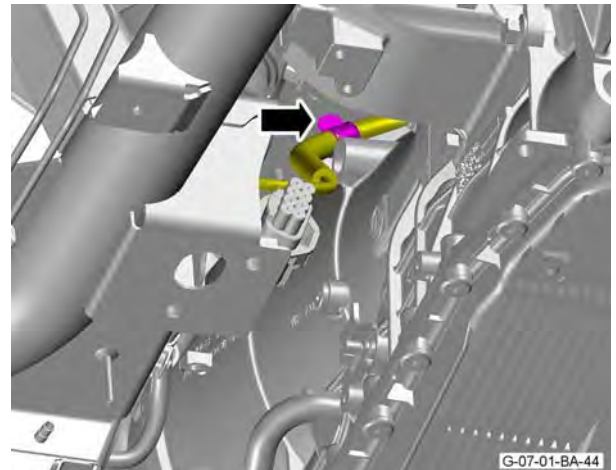
50. Remove the two bolts that attach the manual release cable for the transmission to the transmission.



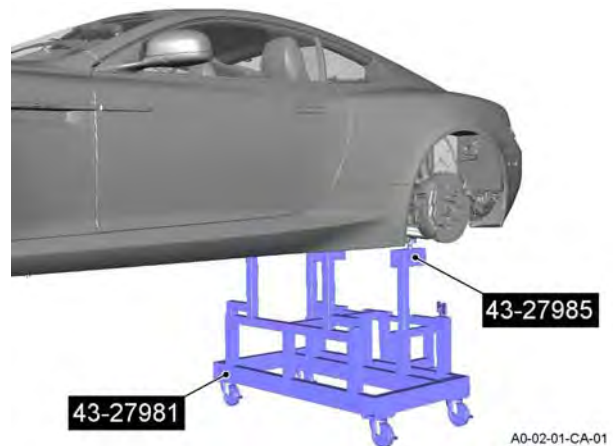
51. Release the manual release cable for the transmission from the transmission.



52. Release the manual release cable for the transmission from the clip that attaches it to the transmission.



53. Install the special tool below the vehicle.



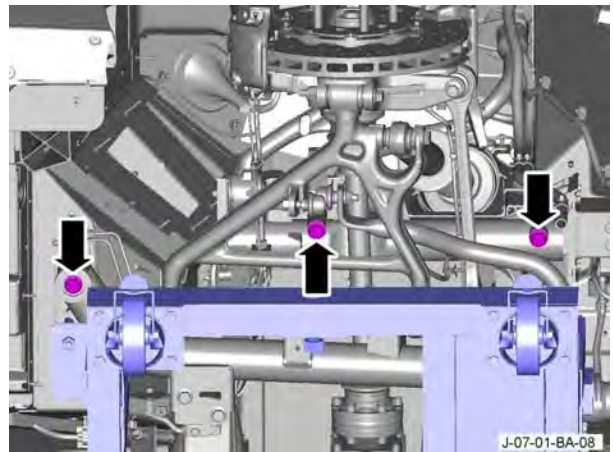
54. **Warning: The aid of one other technician is necessary to make sure that the trolley aligns with the rear subframe.**

Align the special tool to the vehicle.

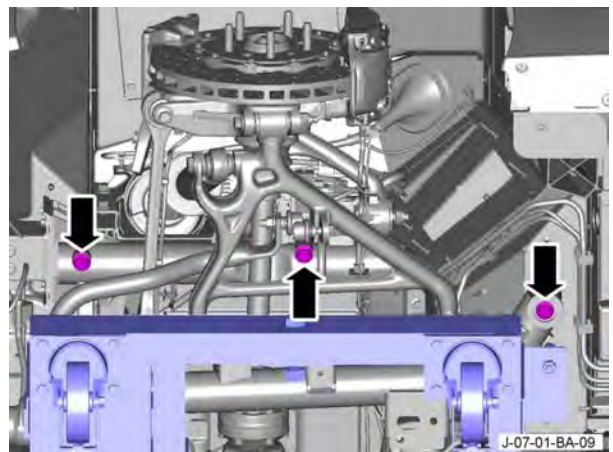
55. **Warning: Make sure that the trolley is aligned to the holes in the subframe correctly. Failure to do this can cause serious injury and damage to the vehicle.**

Lower the vehicle on to the special tool.

56. Remove the three bolts that attach the left side of the rear subframe to the body.

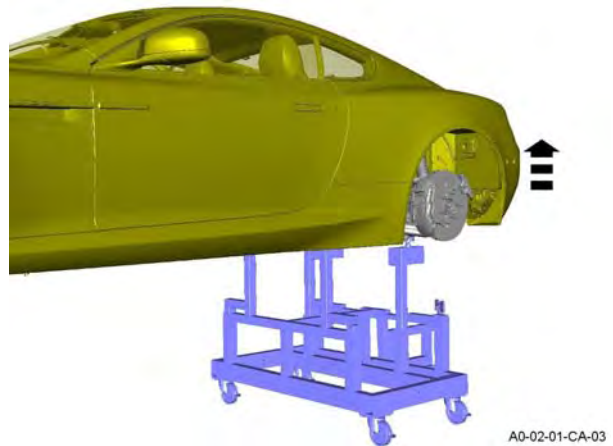


57. Remove the three bolts that attach the right side of the rear subframe to the body.



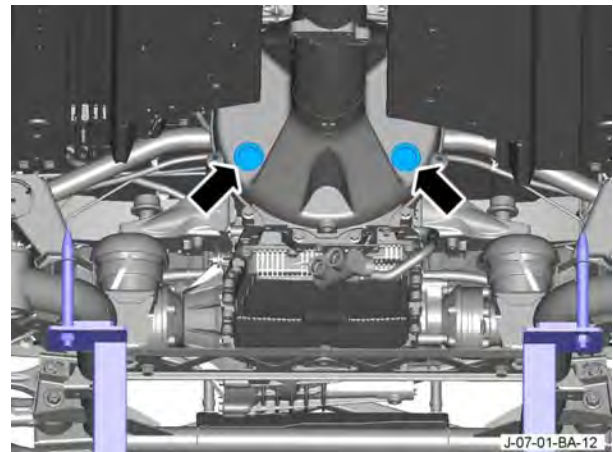
58. **⚠ Warning: Make sure that height of the ramp is not adjusted too far. Failure to do this can cause serious injury and damage to the vehicle.**
⚠ Warning: The aid of one other technician is necessary for the step that follows.

Carefully adjust the height of the vehicle to get access to the top of the transmission and torque tube.



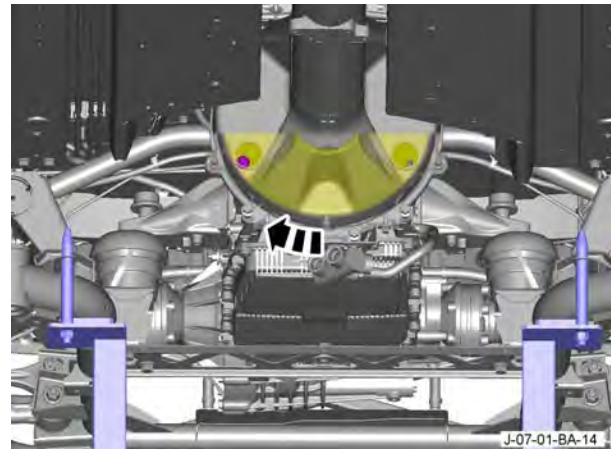
59. **i** *Note: This step applies to USA, China and Japan only up to VIN B14957.*

Remove the two access covers on the torque tube to get access to the bolts that attach the flexplate to the torque converter.



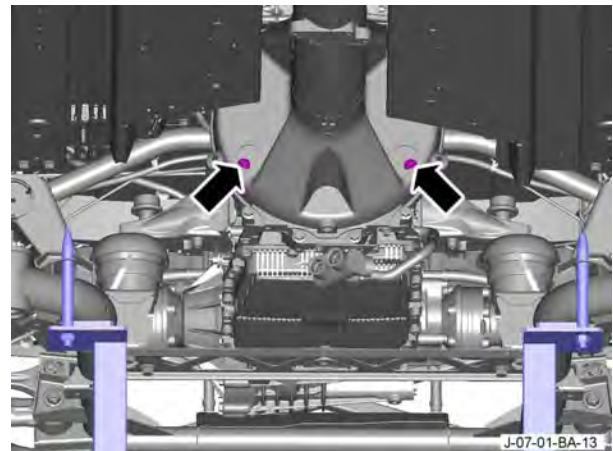
60. **i** *Note: This step applies to USA, China and Japan only up to VIN B14957.*

Turn the torque converter until one of the bolts is aligned with the hole in the torque tube.



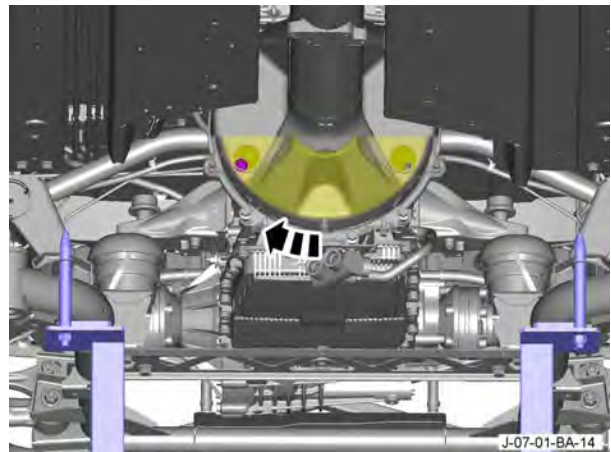
61. **i** *Note: This step applies to USA, China and Japan only up to VIN B14957.*

Remove the two bolts that attach the torque converter to the flexplate.



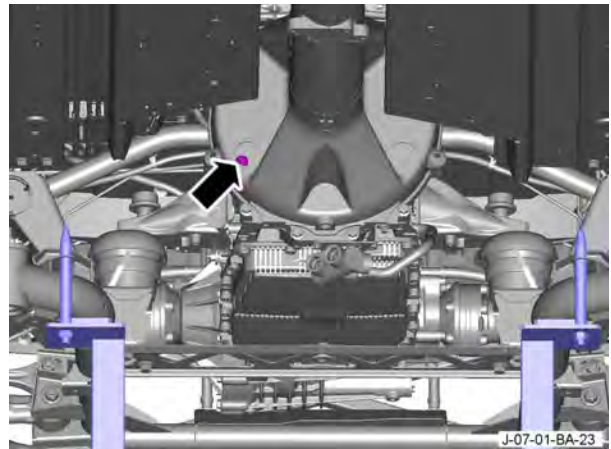
62. **i** *Note: This step applies to USA, China and Japan only up to VIN B14957.*

Turn the torque converter until the next bolt is aligned with the hole in the torque tube.



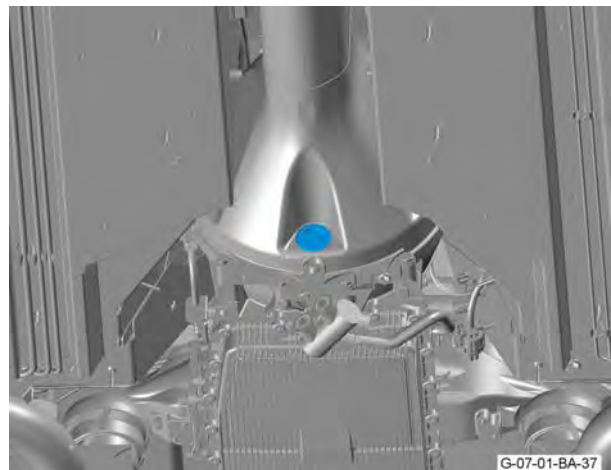
63. **i** *Note: This step applies to USA, China and Japan only up to VIN B14957.*

Remove the bolt that attaches the torque converter to the flexplate.



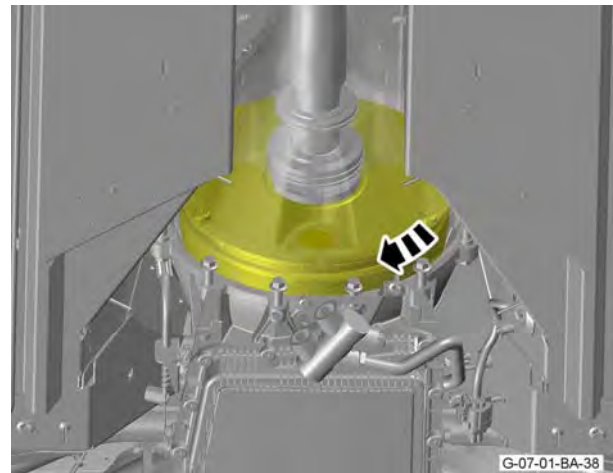
64. **i** *Note: This step applies to Rest Of World (ROW) only.*

Remove the access cover on the torque tube to get access to the bolts that attach the flexplate to the torque converter.



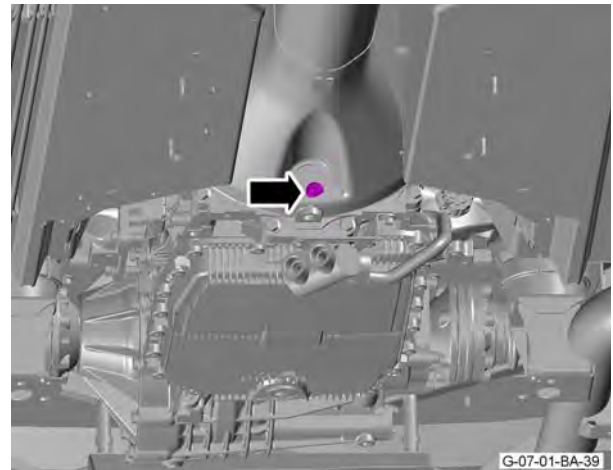
65. **i** *Note: This step applies to ROW only.*

Turn the torque converter until one of the bolts is aligned with the hole in the torque tube.



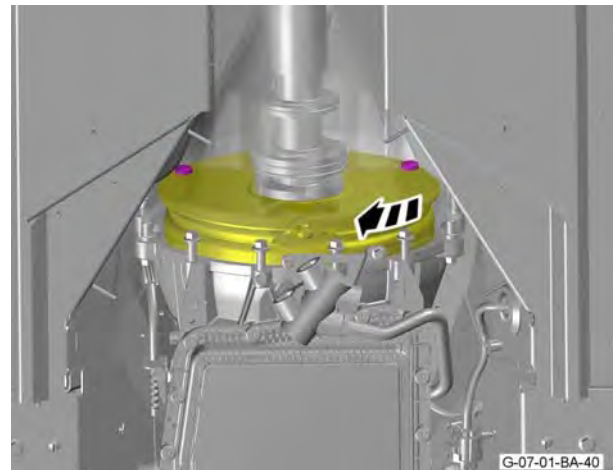
66. **i** *Note: This step applies to ROW only.*

Remove the bolt that attaches the torque converter to the flexplate.

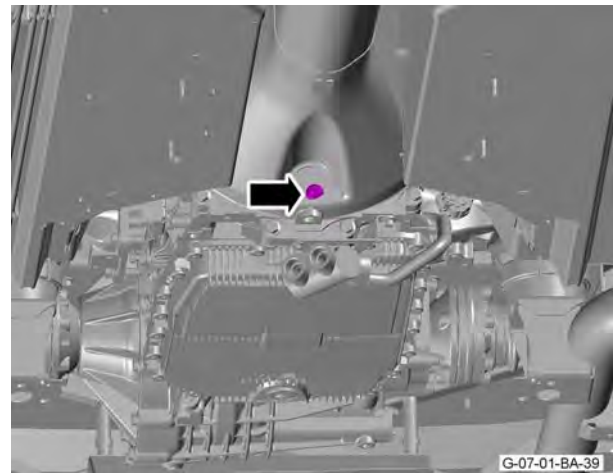


67. **i** *Note: This step applies to ROW only.*

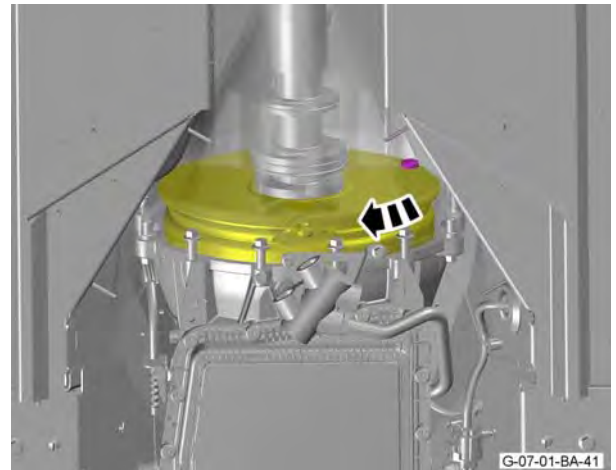
Turn the torque converter until the next bolt is aligned with the hole in the torque tube.



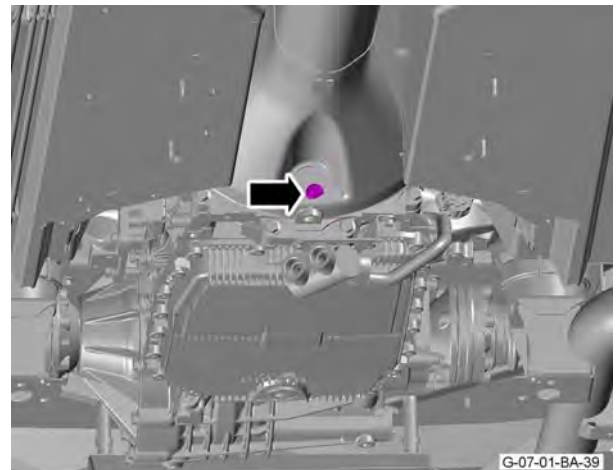
68. **i** *Note: This step applies to ROW only.*
Remove the bolt that attaches the torque converter to the flexplate.



69. **i** *Note: This step applies to ROW only.*
Turn the torque converter until the final bolt is aligned with the hole in the torque tube.

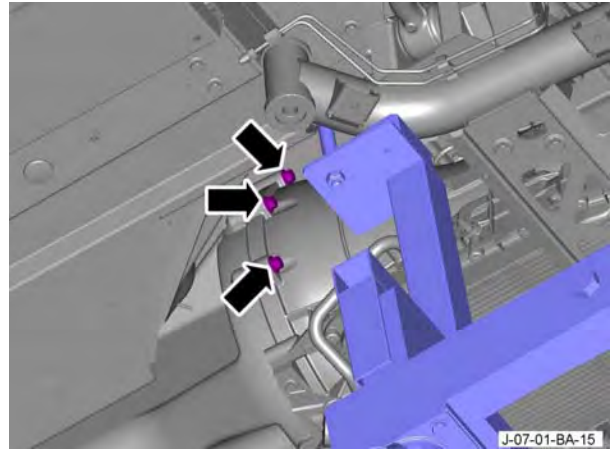


70. **i** *Note: This step applies to ROW only.*
Remove the bolt that attaches the torque converter to the flexplate.

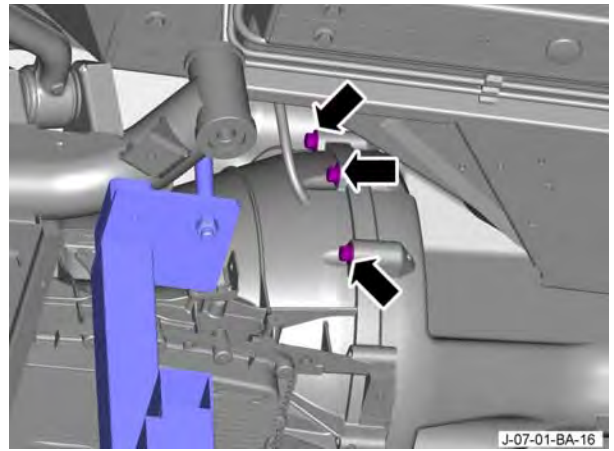


71. Hold the rear of the torque tube assembly with a transmission jack.

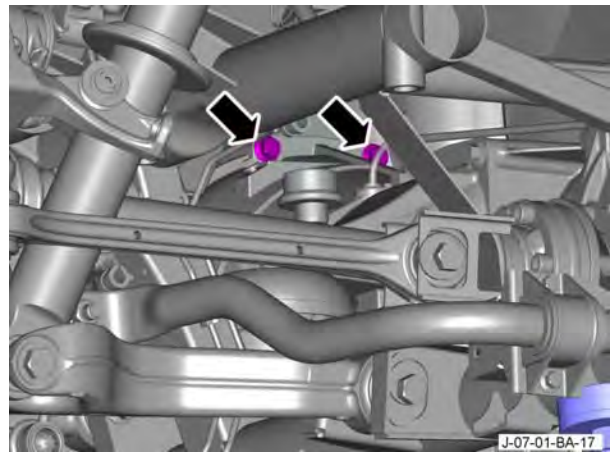
72. Remove the three bolts that attach the transmission to the torque tube.



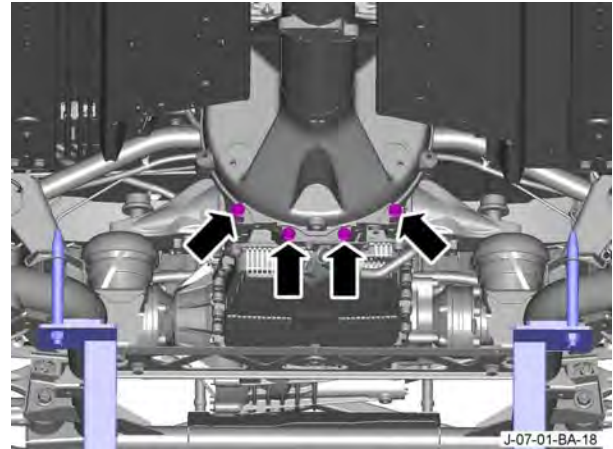
73. Remove the three bolts that attach the transmission to the torque tube.



74. Remove the two bolts that attach the transmission to the torque tube.

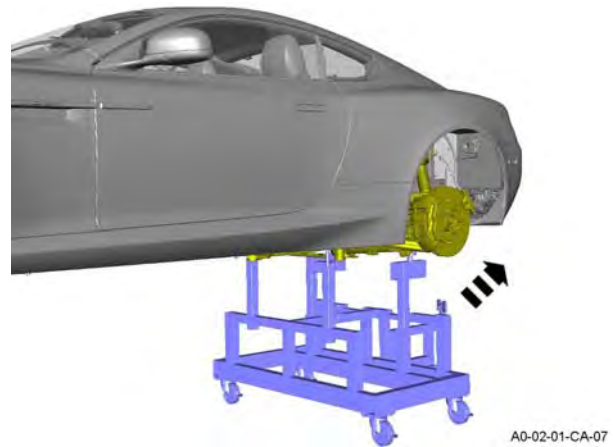


75. Remove the four bolts that attach the transmission to the torque tube.



76. **Warning:** The aid of one more technician is necessary for the step that follows. This will help to prevent injury to personnel and damage to the vehicle and / or equipment.

Move the multi-purpose trolley and rear subframe assembly rearwards to give clearance between the torque tube and the transmission.

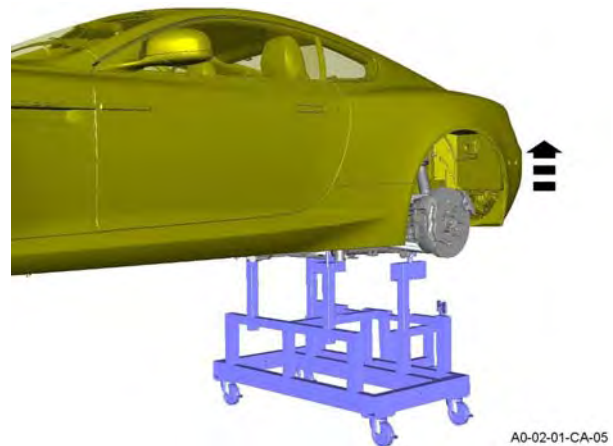


77. **Warning:** The transit bracket for the torque converter must be installed. Failure to follow this step will cause injury to personnel.

Install the transit bracket for the torque converter.

78. **Warning:** The aid of one more technician is necessary to make sure that the rear subframe is away from the body and no other components are still attached. This will help to prevent injury to personnel and damage to the vehicle and / or equipment.

Carefully adjust the height of the vehicle on the lift away from the rear subframe.



79. **Warning:** The aid of one more technician is necessary for the step that follows. This will help to prevent injury to personnel and damage to the vehicle and / or equipment.

Move the multi-purpose trolley and rear subframe away from the vehicle.

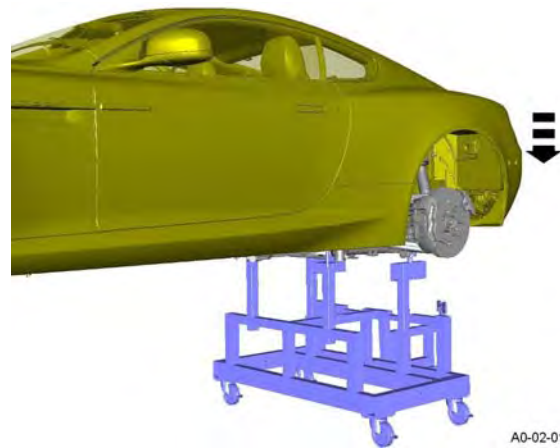
Install

1. **Warning: The aid of one more technician is necessary for the step that follows. This will help to prevent injury to personnel and damage to the vehicle and / or equipment.**

Move the multi-purpose trolley and rear subframe below the vehicle.

2. **Warning: The aid of one more technician is necessary to make sure that the rear subframe is away from the body and no other components are still attached. This will help to prevent injury to personnel and damage to the vehicle and / or equipment.**

Carefully adjust the height of the vehicle on the lift into the correct position.



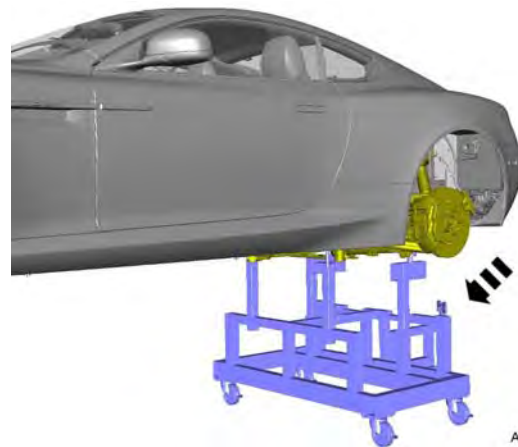
A0-02-01-CA-06

3. **Warning: The transit bracket for the torque converter must be installed. Failure to follow this step will cause injury to personnel.**

Remove the transit bracket for the torque converter.

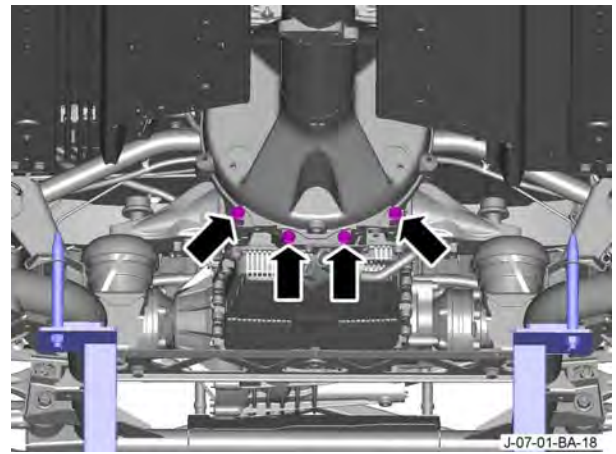
4. **Warning: The aid of one more technician is necessary for the step that follows. This will help to prevent injury to personnel and damage to the vehicle and / or equipment.**

Move the multi-purpose trolley and rear subframe assembly forwards to install the transmission on to the torque tube.

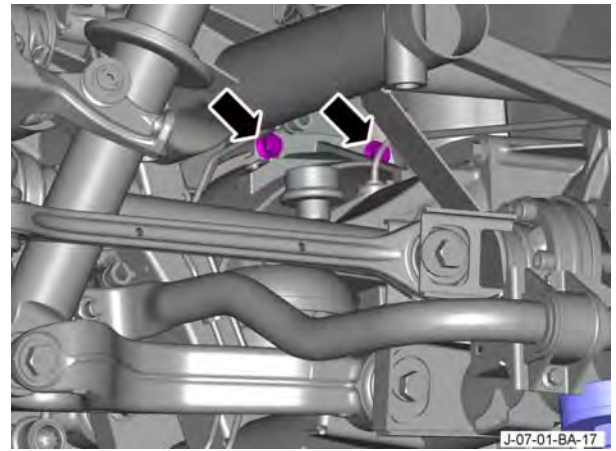


A0-02-01-CA-08

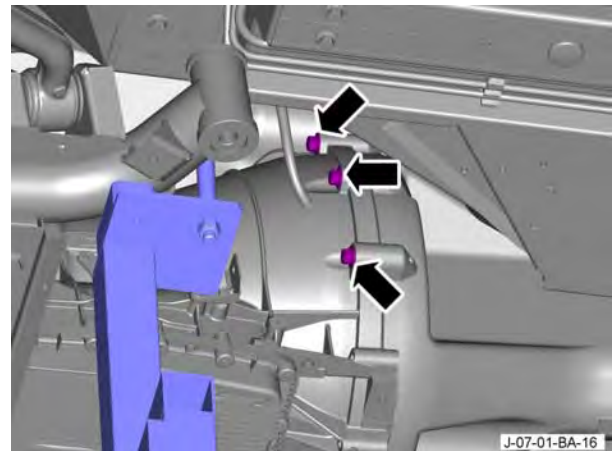
5. Install and torque the four bolts that attach the transmission to the torque tube to 50 Nm.



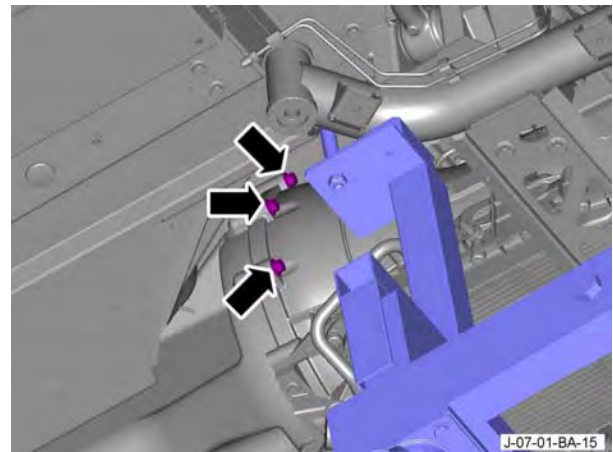
6. Install and torque the two bolts that attach the transmission to the torque tube to 50 Nm.



7. Install and torque the three bolts that attach the transmission to the torque tube to 50 Nm.



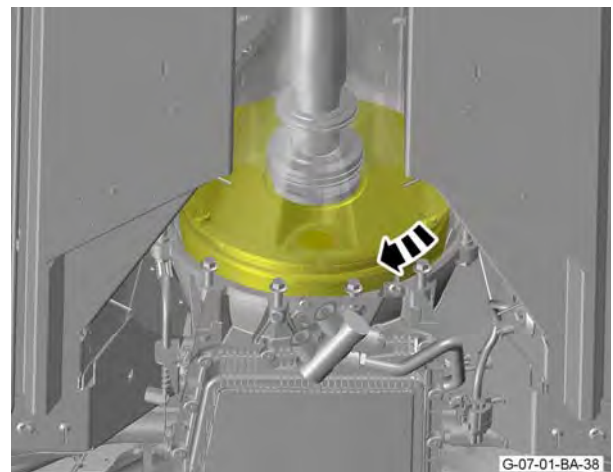
8. Install and torque the three bolts that attach the transmission to the torque tube to 50 Nm.



9. Remove the transmission jack that is below the torque tube.

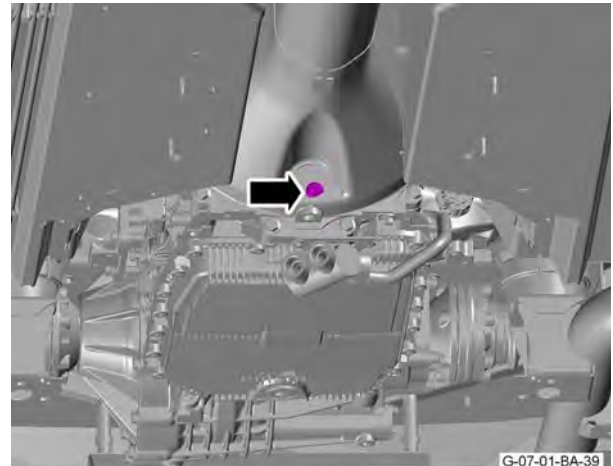
10.  *Note: This step applies to ROW only.*

Turn the torque converter until one of the bolt holes is aligned with torque converter and the hole in the torque tube.



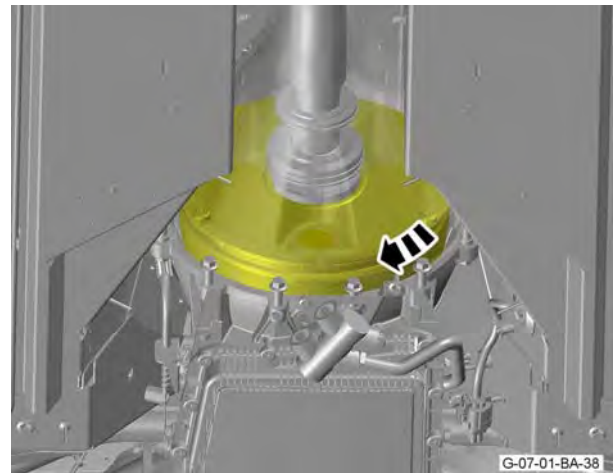
11.  *Note: This step applies to ROW only.*

Install and torque the bolt that attaches the torque converter to the flexplate to 72 Nm.



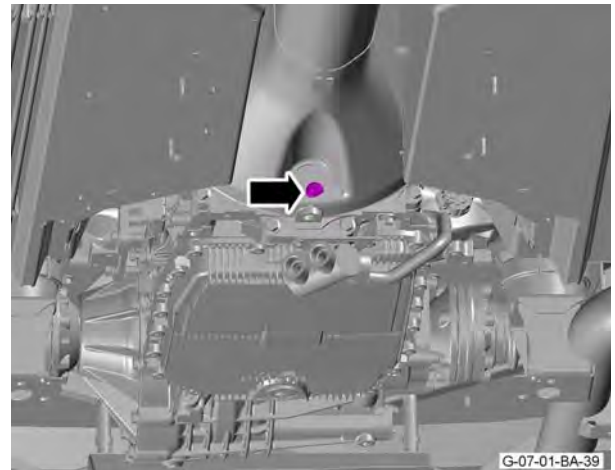
12.  *Note: This step applies to ROW only.*

Turn the torque converter until the next bolt hole is aligned with the hole in the torque tube.



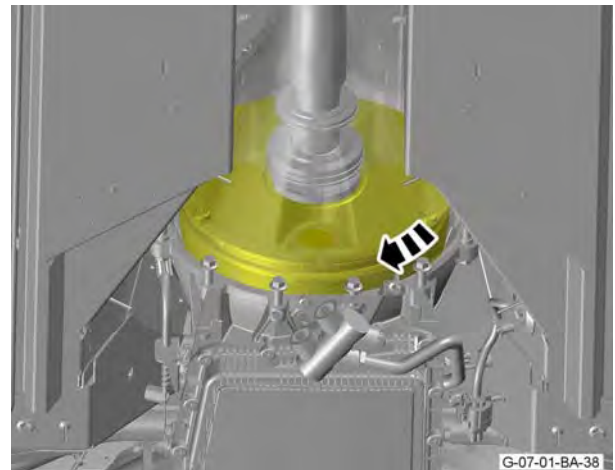
13.  *Note: This step applies to ROW only.*

Install and torque the bolt that attaches the torque converter to the flexplate to 72 Nm.

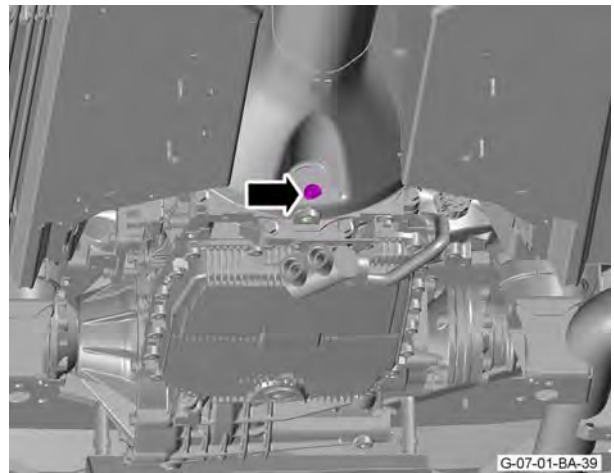


14.  *Note: This step applies to ROW only.*

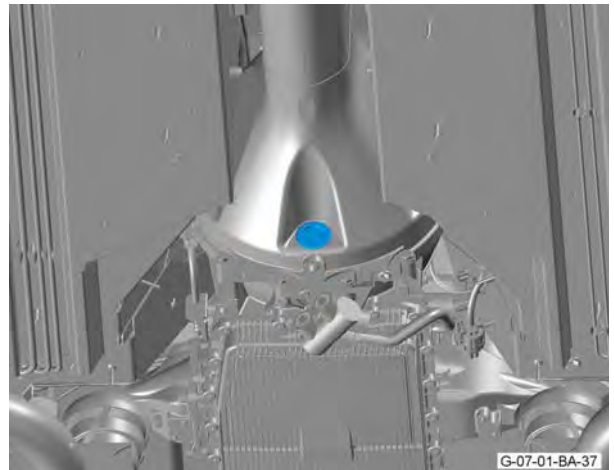
Turn the torque converter until the final bolt hole is aligned with the hole in the torque tube.



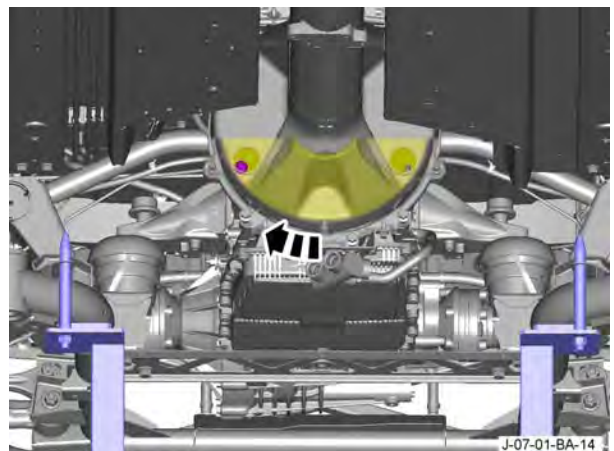
15. **i** *Note: This step applies to ROW only.*
Install and torque the bolt that attaches the torque converter to the flexplate to 72 Nm.



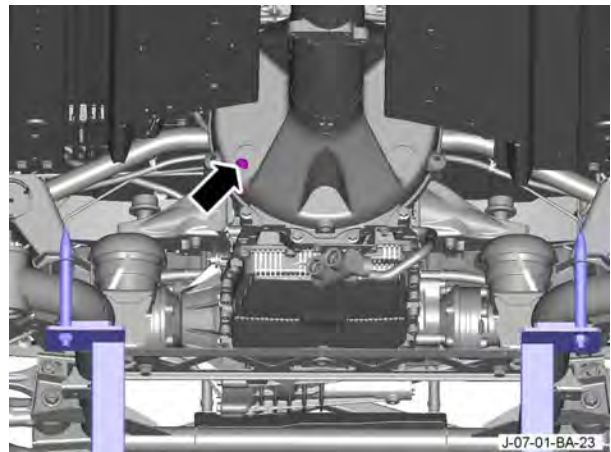
16. **i** *Note: This step applies to ROW only.*
Install the access cover to the torque tube.



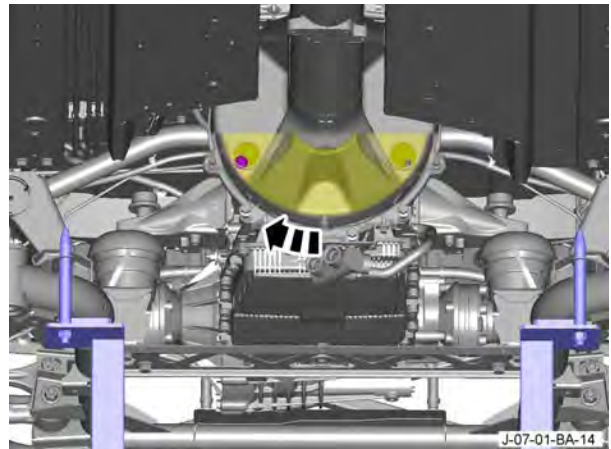
17. **i** *Note: This step applies to USA, China and Japan only up to VIN B14957.*
Turn the torque converter until one of the bolt holes is aligned with torque converter and the hole in the torque tube.



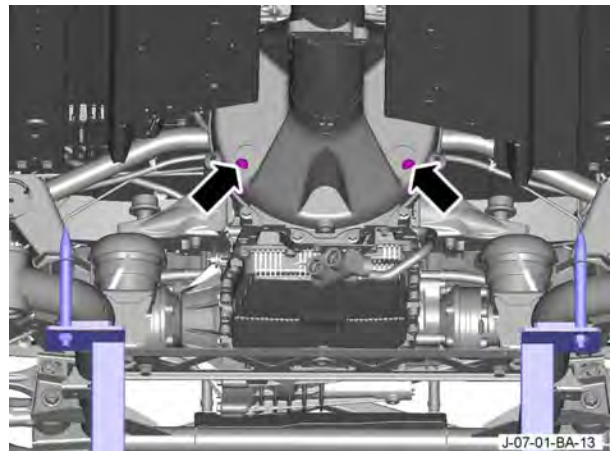
18. **i** *Note: This step applies to USA, China and Japan only up to VIN B14957.*
Install and torque the bolt that attaches the torque converter to the flexplate to 72 Nm.




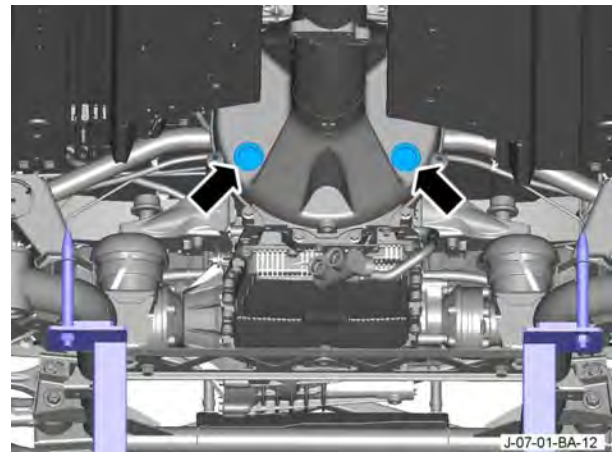
19. **i** *Note: This step applies to USA, China and Japan only up to VIN B14957.*
Turn the torque converter until the next bolt hole is aligned with the hole in the torque tube.




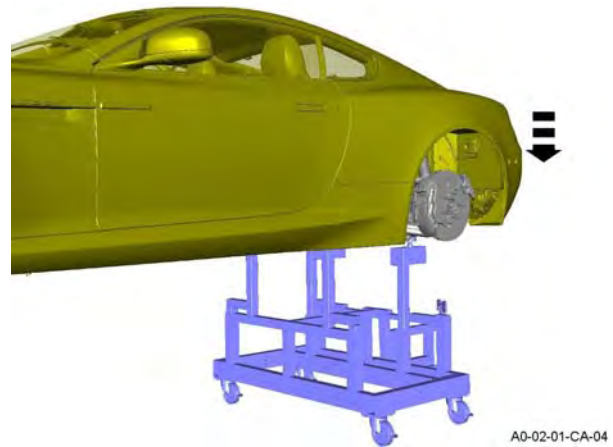
20. **i** *Note: This step applies to USA, China and Japan only up to VIN B14957.*
Install and torque the two bolts that attach the torque converter to the flexplate to 72 Nm.



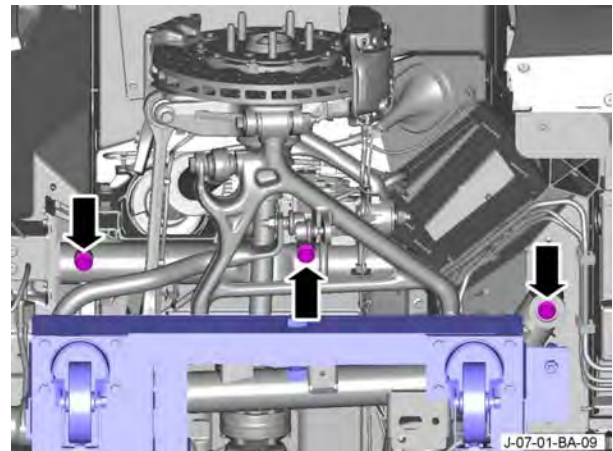
21.  *Note: This step applies to USA, China and Japan only up to VIN B14957.*
Install the two access covers to the torque tube.



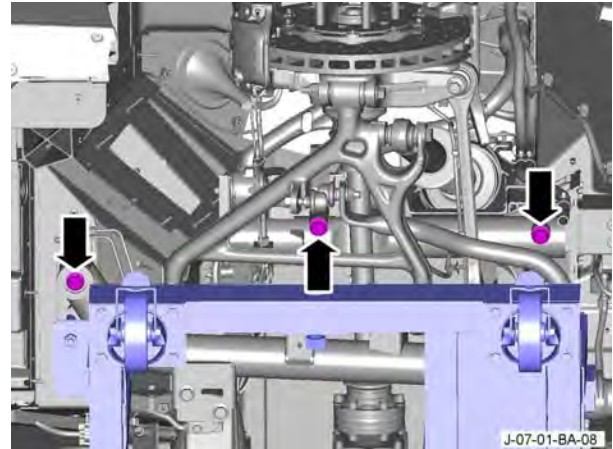
22.  **Warning: Make sure that height of the ramp is not adjusted too far. Failure to do this can cause serious injury and damage to the vehicle.**
Carefully lower the height of the vehicle until the rear subframe is aligned with the body.



23. Install and torque the three bolts that attach the right side of the rear subframe to the body to 175 Nm.



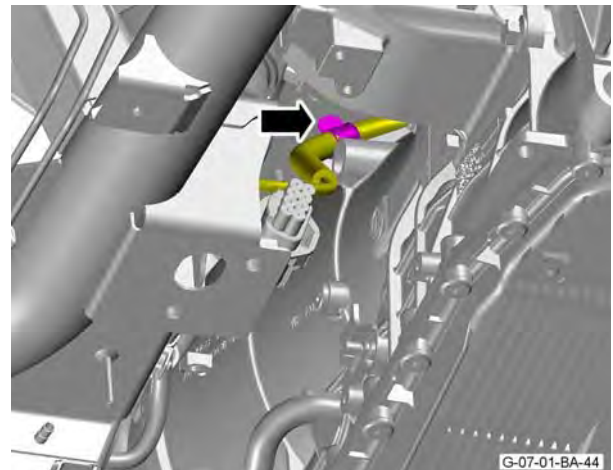
24. Install and torque the three bolts that attach the left side of the rear subframe to the body to 175 Nm.



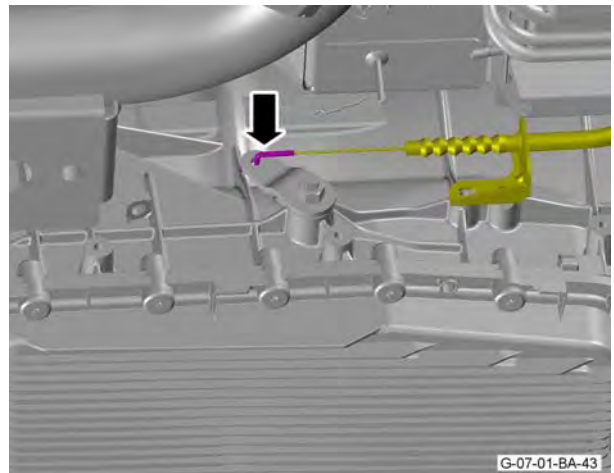
25. Lift the vehicle away from the special tool.
26. **⚠ Warning: The aid of one other technician is necessary for the step that follows.**
Remove the special tool from below the vehicle.



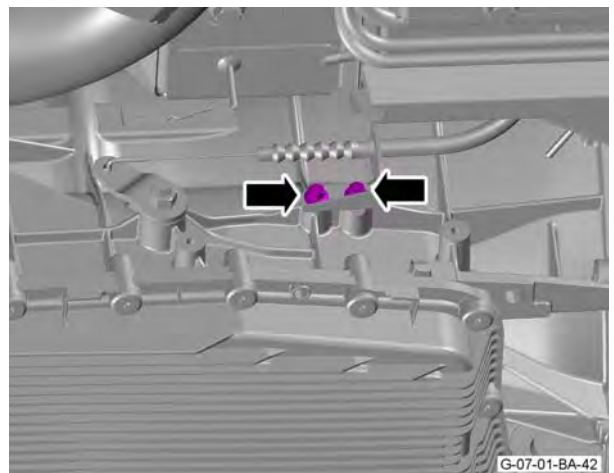
27. Install the manual release cable for the transmission to the clip that attaches it to the transmission.



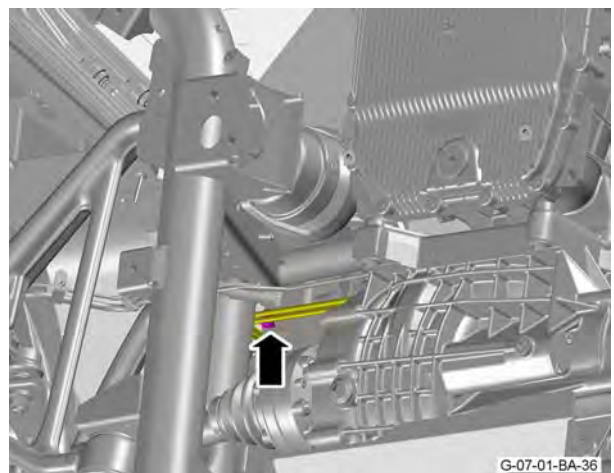
28. Install the manual release cable for the transmission to the transmission.



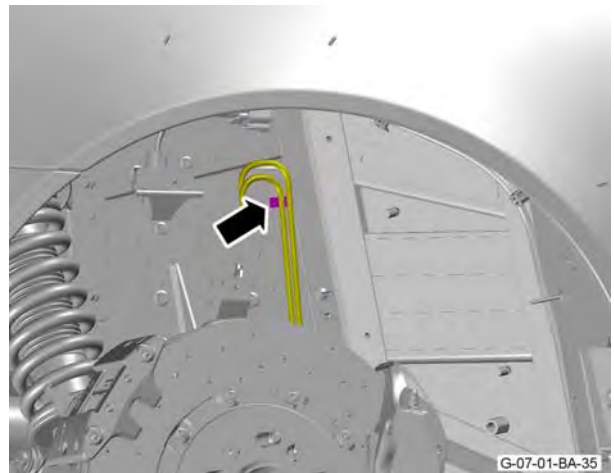
29. Install and torque the two bolts that attach the manual release cable for the transmission to the transmission to 9 Nm.



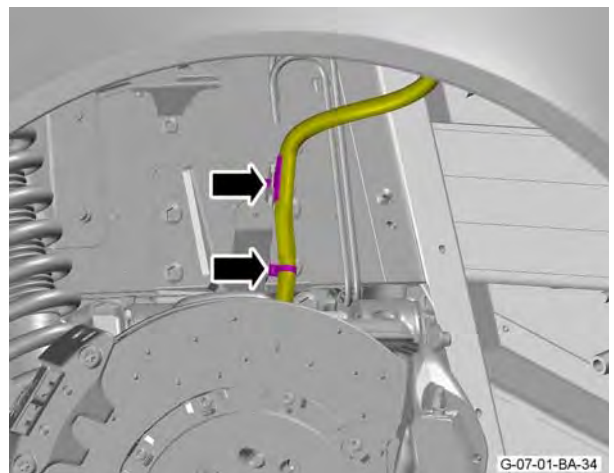
30. Install the breather pipes to the clip that attaches them to the body.



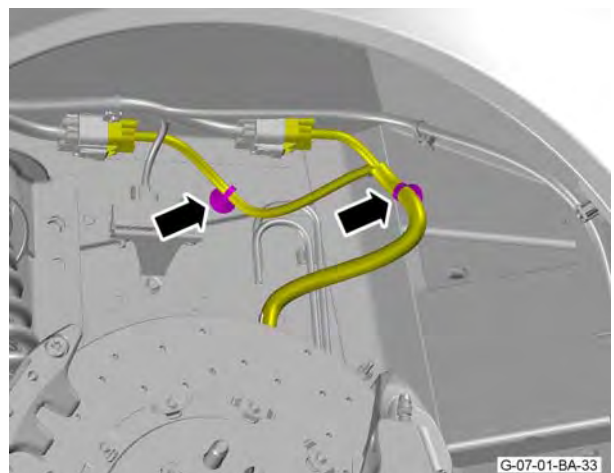
31. Install the breather pipes to the clip that attaches them to the body.



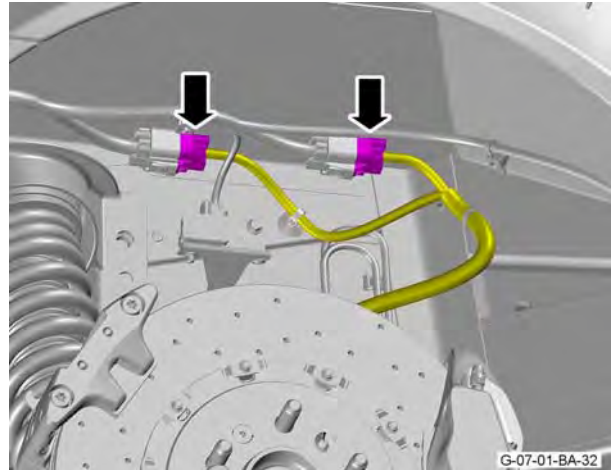
32. Install the wiring harness for the transmission to the two clips that attach it to the body.



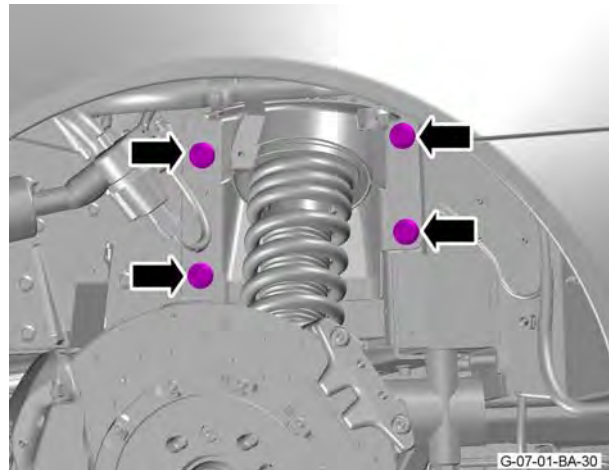
33. Install the wiring harness for the transmission to the two clips that attach it to the body.



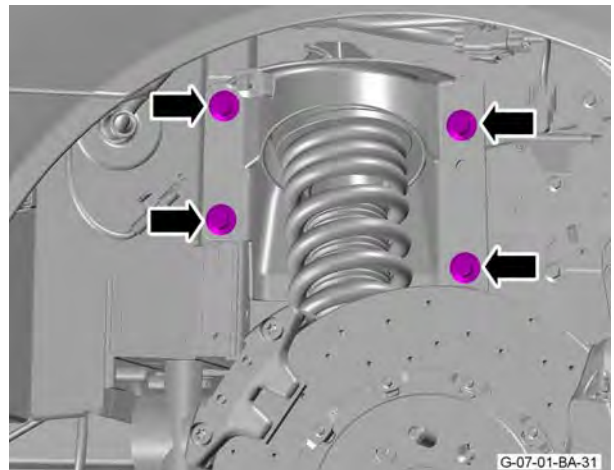
34. Connect the two electrical connectors to the wiring harness for the cabin.



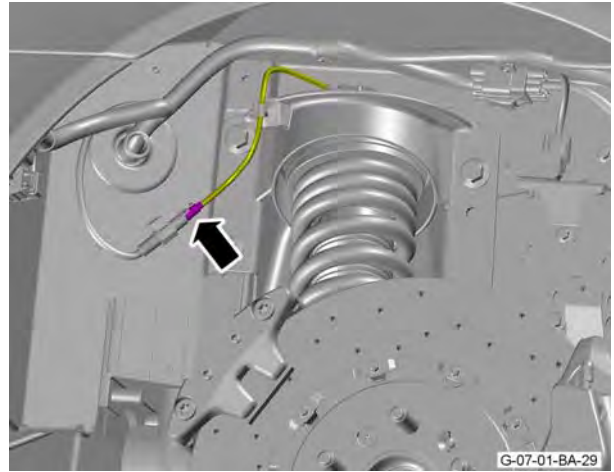
35. Install and torque the four bolts that attach the left side spring and damper assembly mounting plate to the body to 80 Nm.



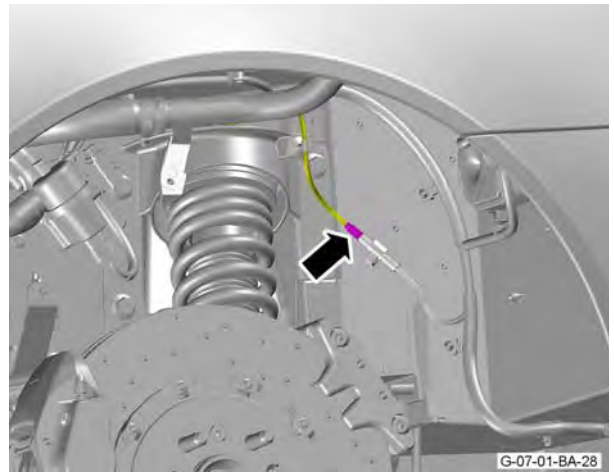
36. Install and torque the four bolts that attach the right side spring and damper assembly mounting plate to the body to 80 Nm.



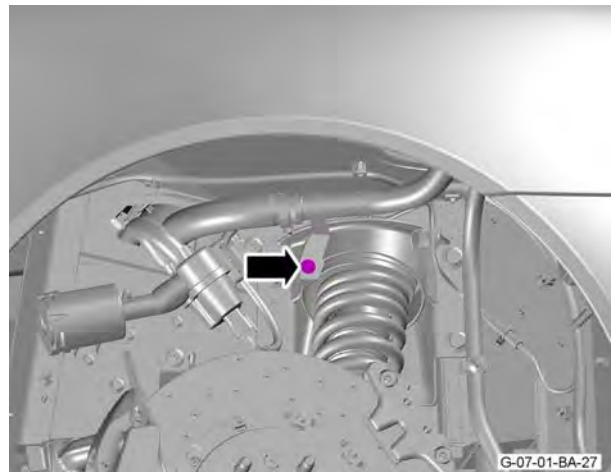
37. Connect the electrical connector to the wiring harness for the cabin.



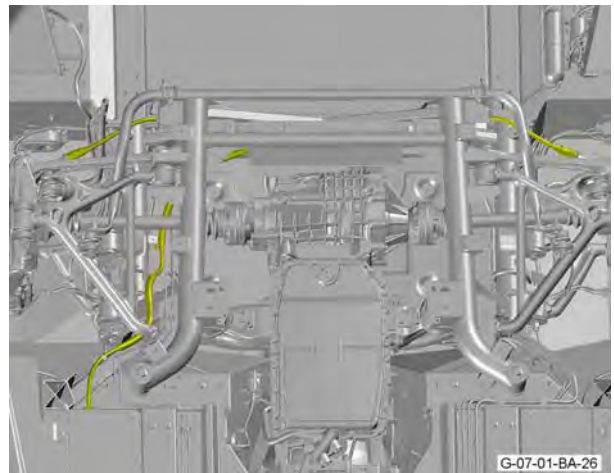
38. Connect the electrical connector to the wiring harness for the rear bumper.



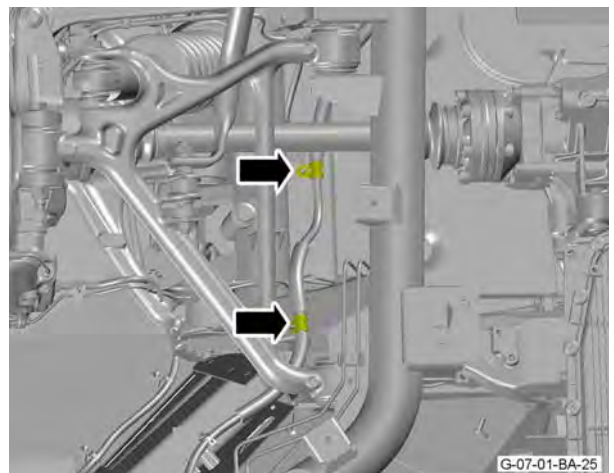
39. Install and torque the bolt that attaches the fuel filler pipe to the body to 9 Nm.



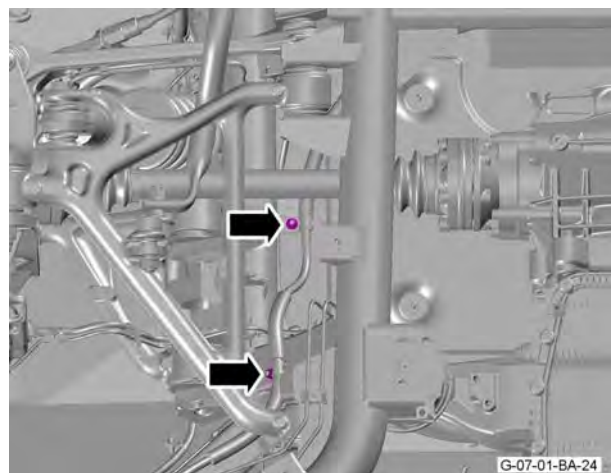
40. Move the handbrake cable into the correct position.



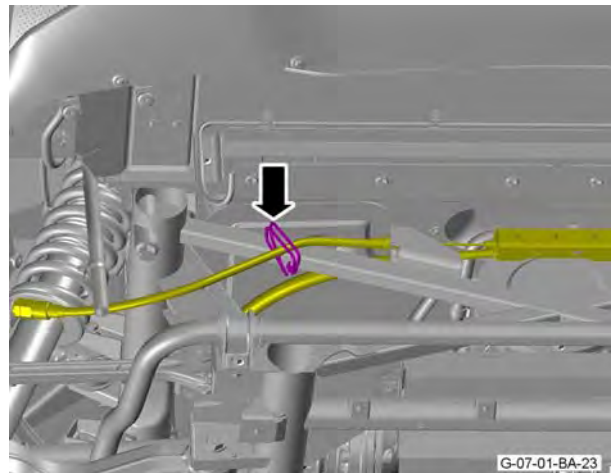
41. Install the handbrake cable to the two studs that attach it to the rear subframe.



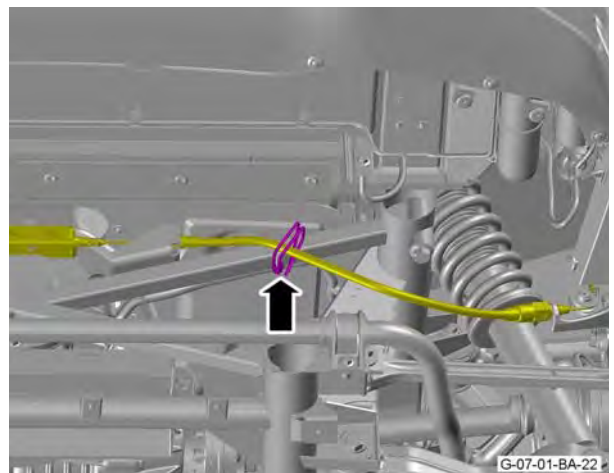
42. Install and tighten the two nuts that attach the handbrake cable to the rear subframe.



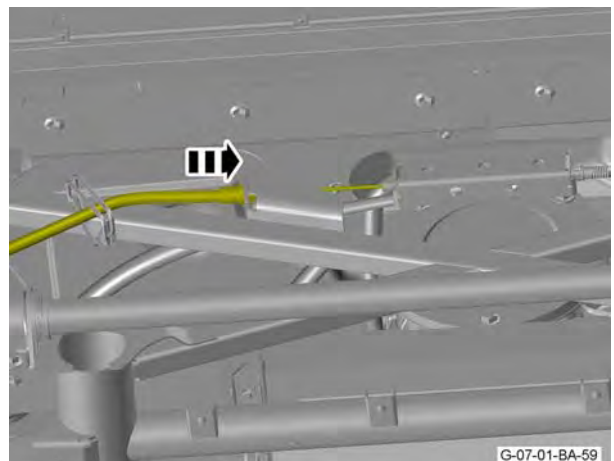
43. Install the left side handbrake cable to the clip that attaches it to the rear subframe.



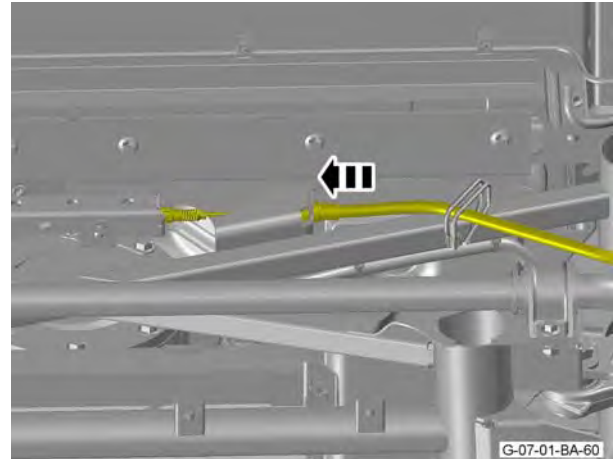
44. Install the right side handbrake cable to the clip that attaches it to the rear subframe.



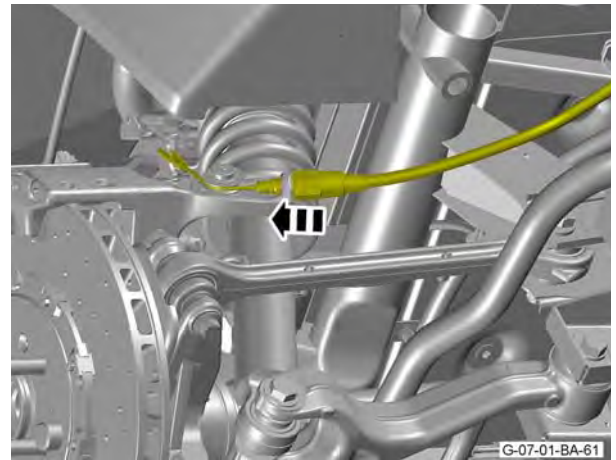
45. Install the left side handbrake cable to the rear subframe.



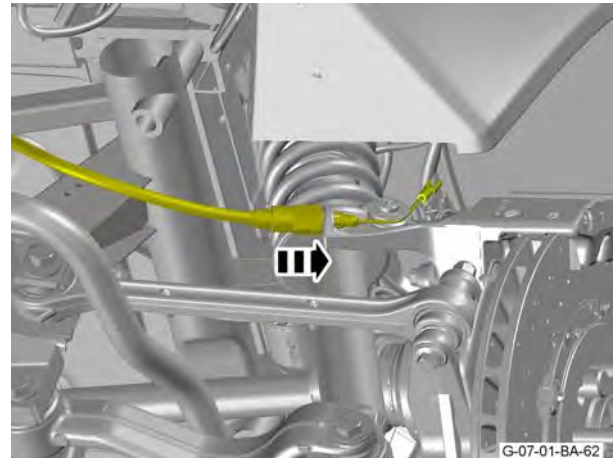
46. Install the right side handbrake cable to the rear subframe.



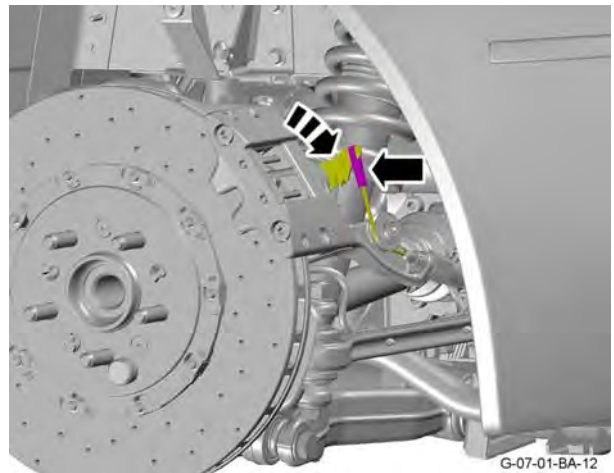
47. Install the left side handbrake cable to the left side handbrake caliper.



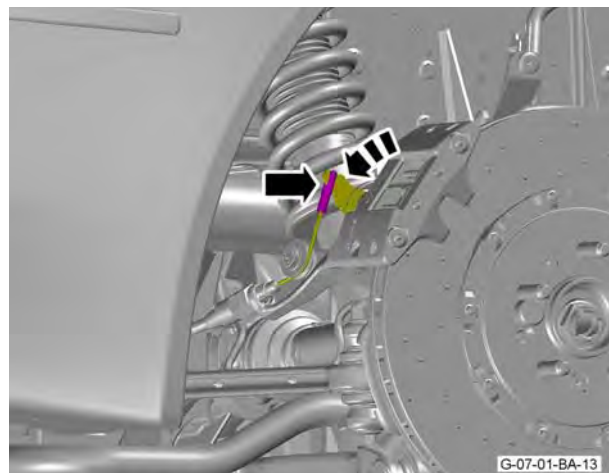
48. Install the right side handbrake cable to the right side handbrake caliper.




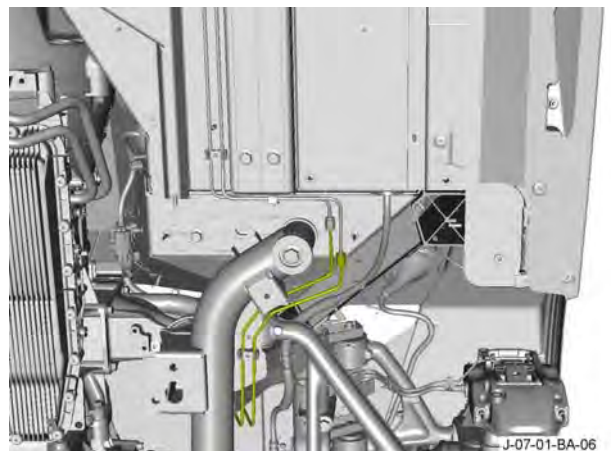
49. Install the handbrake cable eyelet from the left side handbrake caliper.



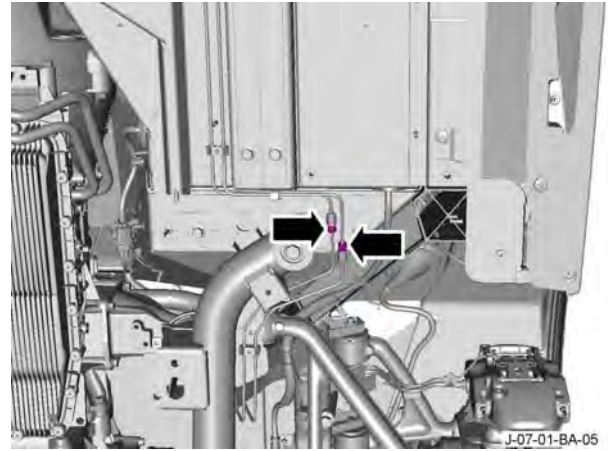
50. Install the handbrake cable eyelet to the right side handbrake caliper.



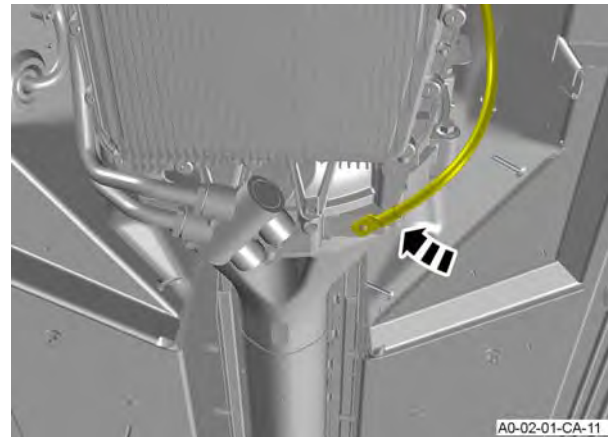
51.  *Note: Remove and discard the caps.*
Connect the two front brake pipes to the two rear brake pipes.



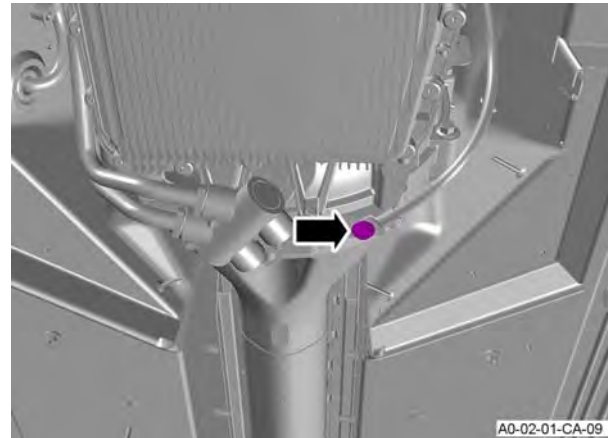
52. Torque the two brake pipe unions that attach the rear brake pipes to the front brake pipes to 14 Nm.



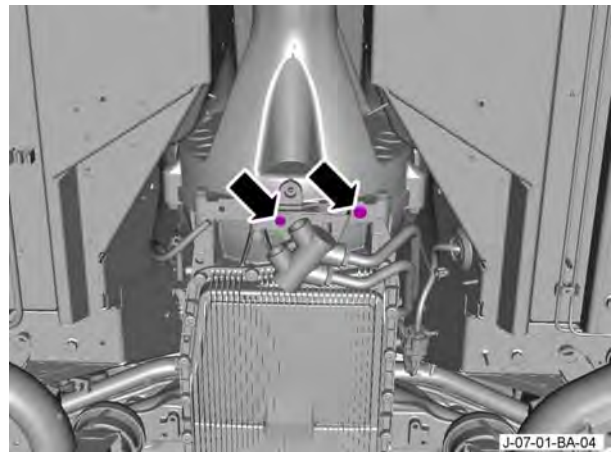
53. Move the ground cable into the correct position.



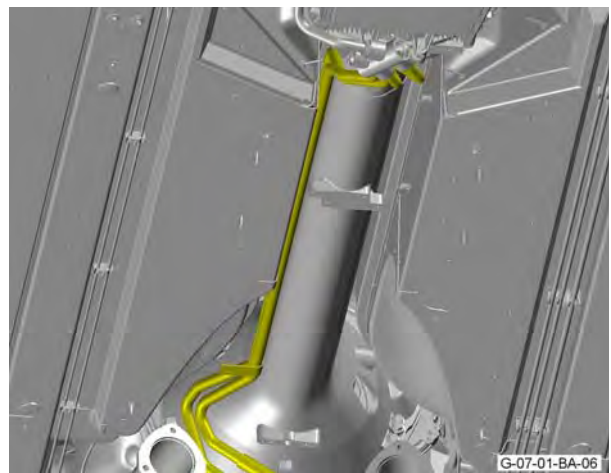
54. Install and torque the bolt that attaches the ground cable to the torque tube to 14 Nm.




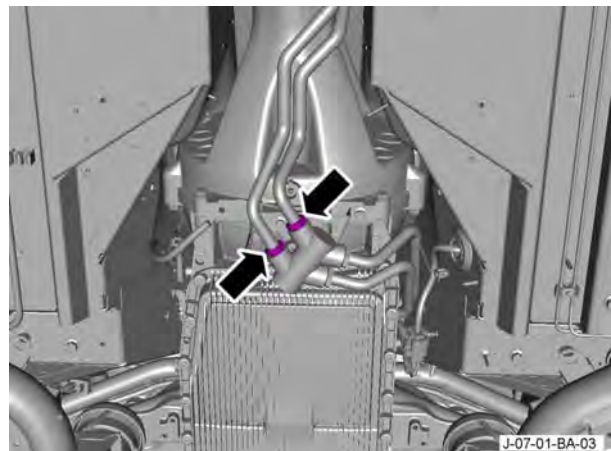
55. Install and torque the M8 bolt and the M6 bolt that attach the oil control thermostat to the torque tube to 22 Nm and 9 Nm.



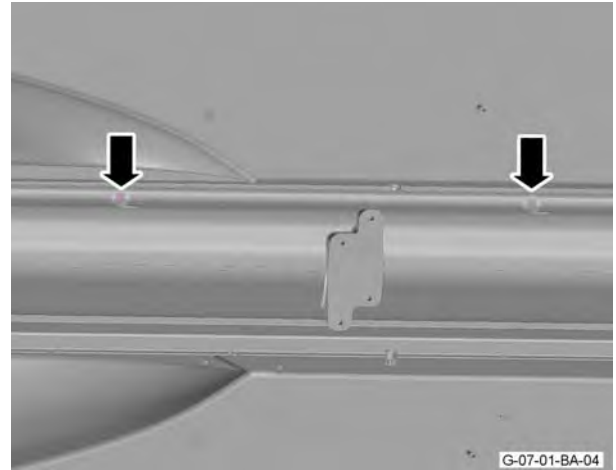
56. Move the pipes for the transmission oil cooler into the correct position.



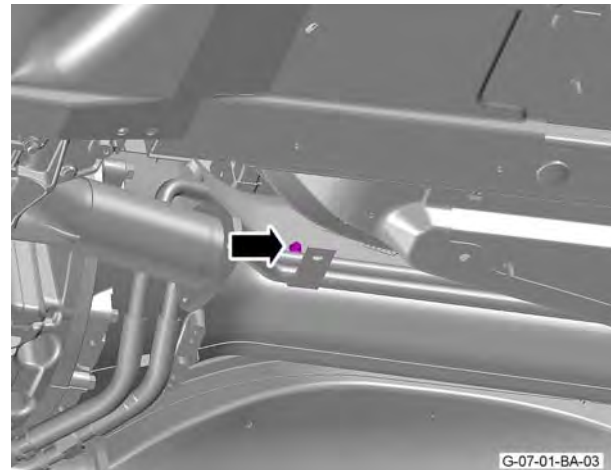
57.  *Note: Remove and discard the caps.*
Connect the two pipe unions for the transmission oil cooler to the oil control thermostat.



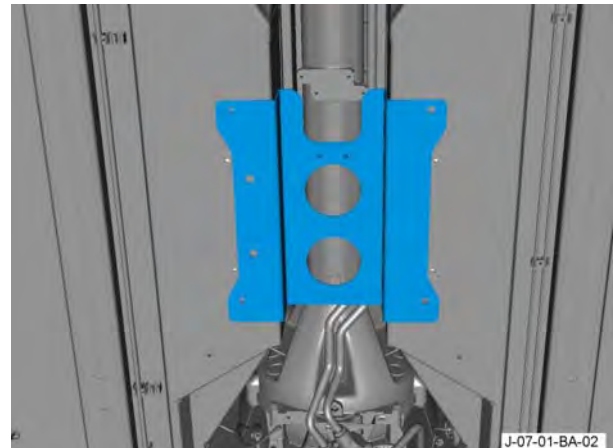
58. Install and torque the two bolts that attach the pipes for the transmission oil cooler to the torque tube to 9 Nm.



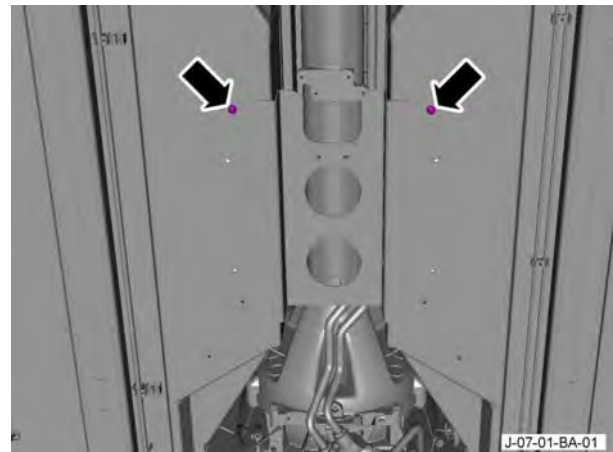
59. Install and torque the bolt that attaches the pipes for the transmission oil cooler to the torque tube to 9 Nm.



60. Install the centre floor reinforcement.






61. Install and torque the two bolts that attach the centre floor reinforcement to the body to 23 Nm.



62. Remove the heat shield for the exhaust muffler (02.06.AG - Heat Shield for the Exhaust Muffler).
[\[Open Workshop Manual Procedure\]](#)
63. Install the heat shield for the rear tunnel (02.06.BH - Heat Shield for the Rear Tunnel).
[\[Open Workshop Manual Procedure\]](#)
64. Fill the differential oil (07.01.CD - Differential Oil).
[\[Open Workshop Manual Procedure\]](#)
65. Fill the transmission oil (07.01.BD - Transmission Oil).
[\[Open Workshop Manual Procedure\]](#)
66. Install the front floor heat shield (09.04.AA - Front Floor Heat Shield).
[\[Open Workshop Manual Procedure\]](#)
67. Remove the rear right side wheel-arch liner (01.02.HB - Rear Right Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)
68. Do the battery connection procedure (14.01.CA - Battery Disconnection and Connection Procedure).
[\[Open Workshop Manual Procedure\]](#)
69. Adjust the handbrake cable (06.05.DC - Adjustment for the Handbrake Cable).
[\[Open Workshop Manual Procedure\]](#)
70. Do a check and adjust the four wheel alignment (04.00.AD - Check and Adjust the Four Wheel Alignment).
[\[Open Workshop Manual Procedure\]](#)

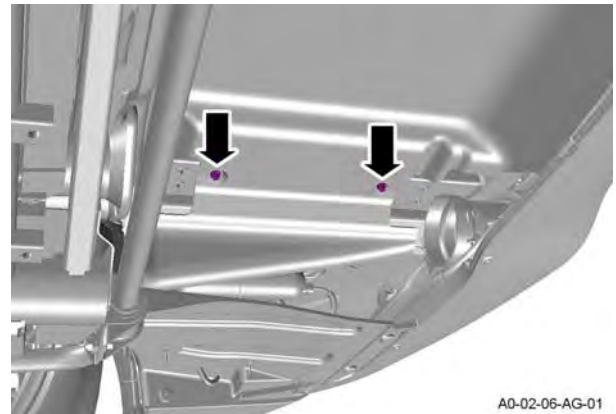
Published date: 2011-10-05 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****02.06.AG Heat Shield for the Exhaust Muffler (Remove and Install New Part)**

-  WSM Data
-  Included Procedures
-  Is Used In

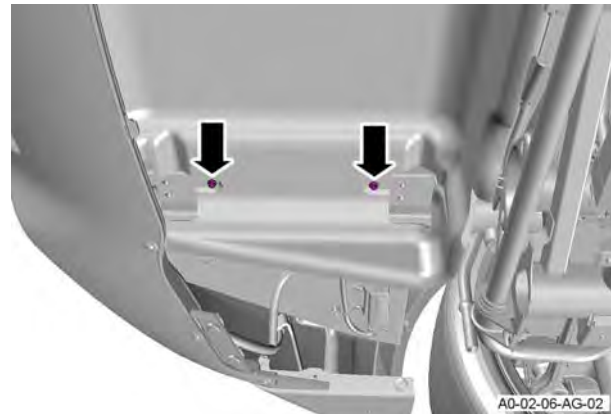
Removal

1. Remove the muffler and bypass valve assembly (09.00.KA - Muffler and Bypass Valve Assembly).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the two screws that attach the heat shield to the body.



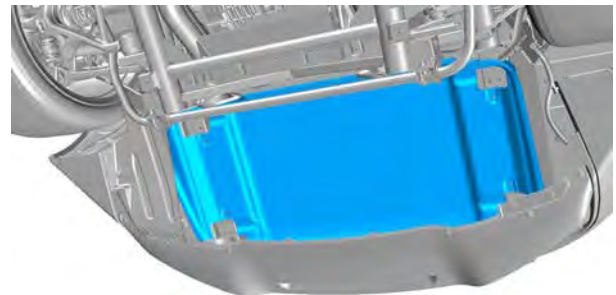
A0-02-06-AG-01

3. Remove the two screws that attach the heat shield to the body.



A0-02-06-AG-02

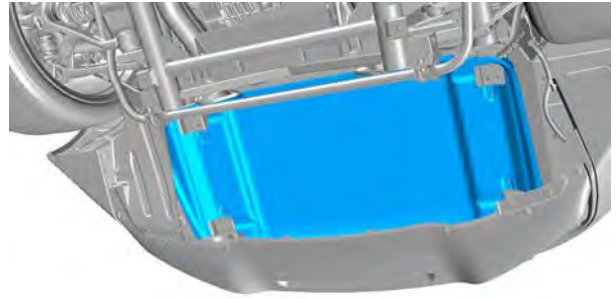
4. Remove the heat shield.



A0-02-06-AG-03

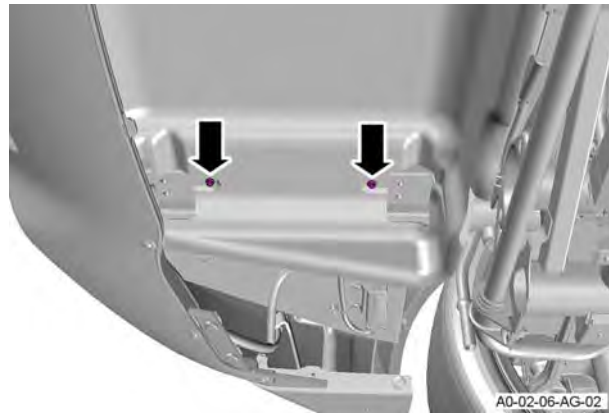
Install

1. Put the heat shield into position.



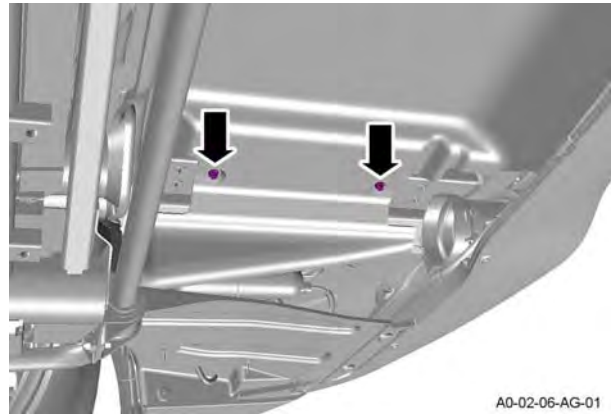
A0-02-06-AG-03

2. Install and torque the two screws that attach the heat shield to the body to 9 Nm.



A0-02-06-AG-02

3. Install and torque the two screws that attach the heat shield to the body to 9 Nm.






A0-02-06-AG-01

4. Install the muffler and bypass valve assembly (09.00.KA - Muffler and Bypass Valve Assembly).
[\[Open Workshop Manual Procedure\]](#)

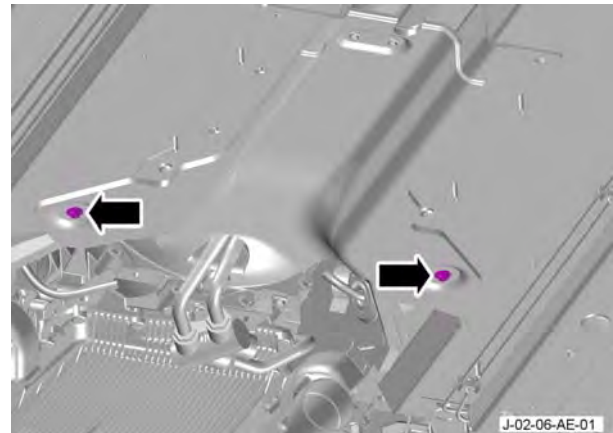
Published date: 2011-06-03 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****02.06.BH Heat Shield for the Rear Tunnel (Remove and Install New Part)**

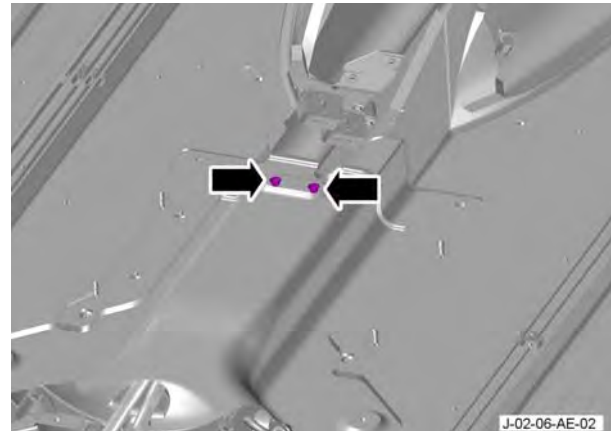
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

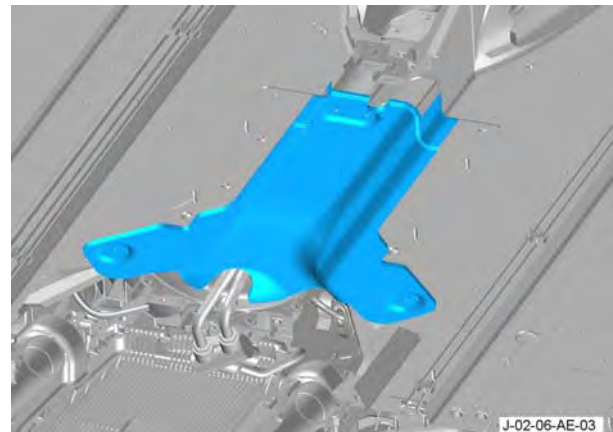
1. Remove the centre exhaust pipe (09.00.BC - Centre Exhaust Pipe).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the two nuts that attach the tunnel heat shield to the body.



3. Remove the two bolts that attach the tunnel heat shield to the body.

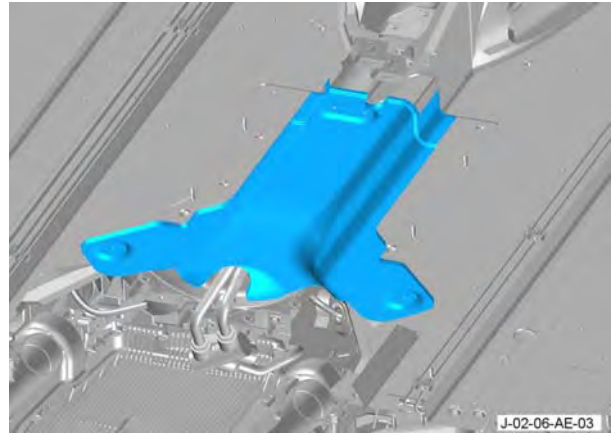


4. Remove the tunnel heat shield.

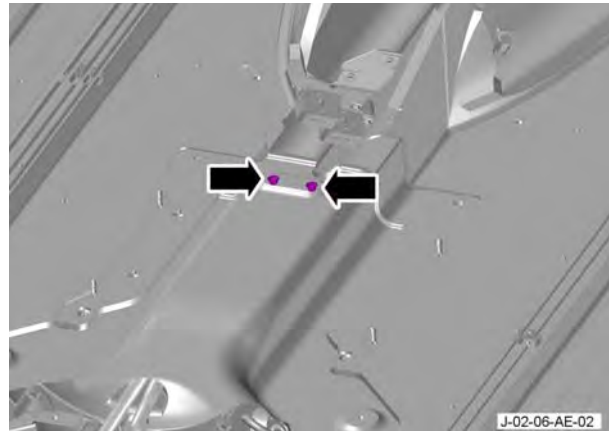


Install

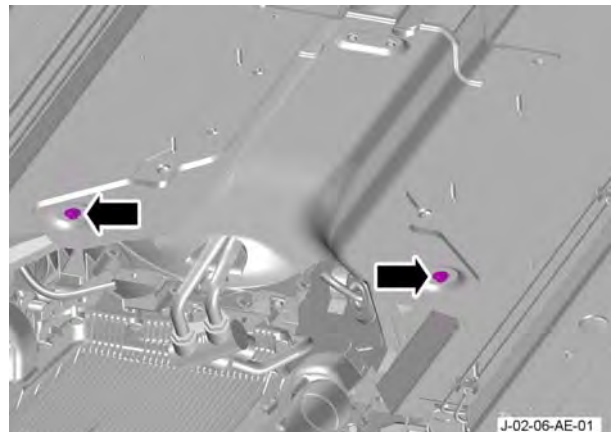
1. Install the tunnel heat shield.



2. Install and torque the two bolts that attach the tunnel heat shield to the body to 9 Nm.



3. Install and torque the two nuts that attach the tunnel heat shield to the body to 9 Nm.






4. Install the centre exhaust pipe (09.00.BC - Centre Exhaust Pipe).

[\[Open Workshop Manual Procedure\]](#)

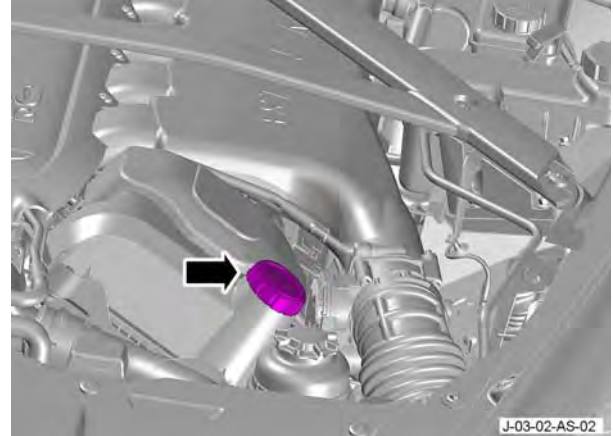
Published date: 2011-06-03 Procedure last changed: 2015-06-25 16:39:17


Small **Normal** **Large****03.02.AC Oil (Drain and Refill)**

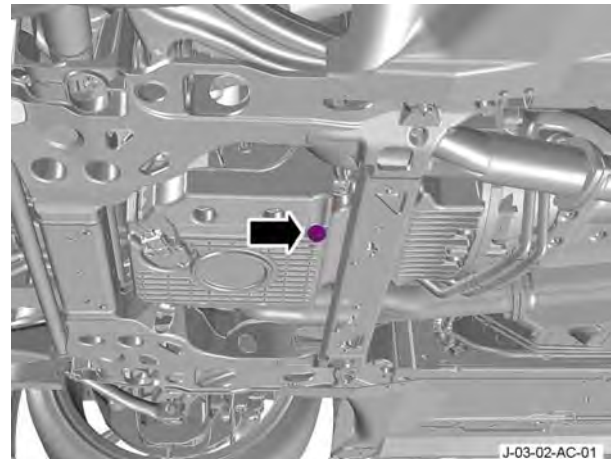
-  WSM Data
-  Included Procedures
-  Is Used In

Drain

1. Operate the engine for 5 minutes.
2. Remove the filler cap for the engine oil.



3. Remove the front undertray (01.02.NB - Front Undertray).
[\[Open Workshop Manual Procedure\]](#)
4. Put an applicable container below the drain plug for the engine oil.
5.  *Note: Wait a minimum of 5 minutes before the step that follows.*
Remove and discard the drain plug for the engine oil.

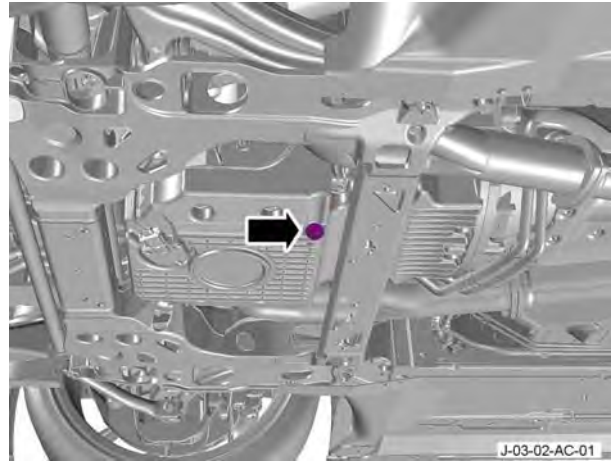


6. When the oil flow reduces from a steady flow to drops, wait 5 minutes to let the engine oil drain into the applicable container.

Fill

1. Clean the mating faces between the oil pan and the drain plug for the engine oil.

2. Install and torque a new drain plug for the engine oil to 25 Nm.




3. Remove the container and discard the engine oil correctly.

4. Install the front undertray (01.02.NB - Front Undertray).

[\[Open Workshop Manual Procedure\]](#)

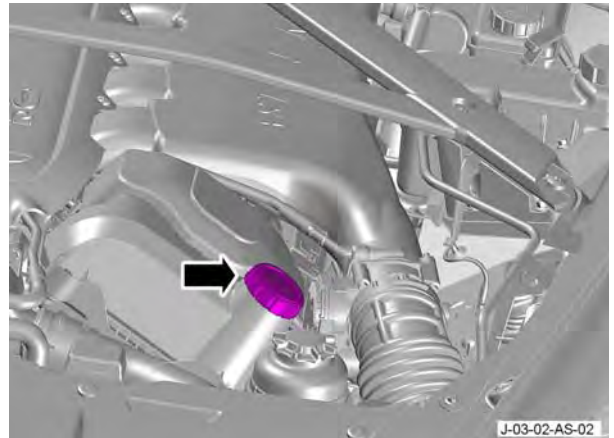
5. Lower the vehicle.


6.  **Caution: Make sure you measure the engine oil correctly. If you do not, there is a risk of damage to the engine.**

 *Note: If the engine oil is changed without a new filter installed, the initial fill amount should be decreased by half a litre.*

Fill the engine with 11 litres of engine oil.


7. Install and tighten the filler cap for the engine oil.



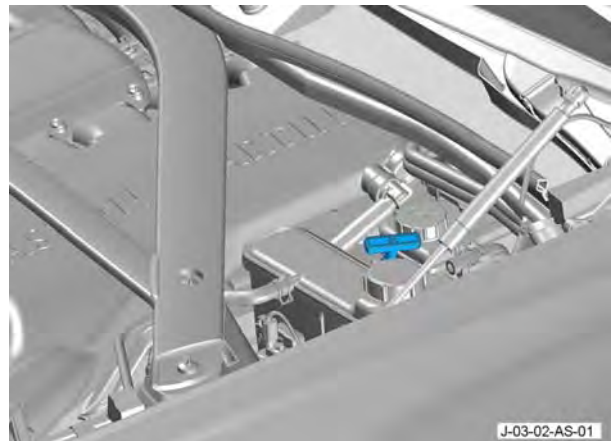
8.  *Note: Allow the engine to run at idle for 2 minutes before the engine is turned off.*


Road test the vehicle for 20 minutes.

9. Wait 15 minutes to let the engine oil level become stable.

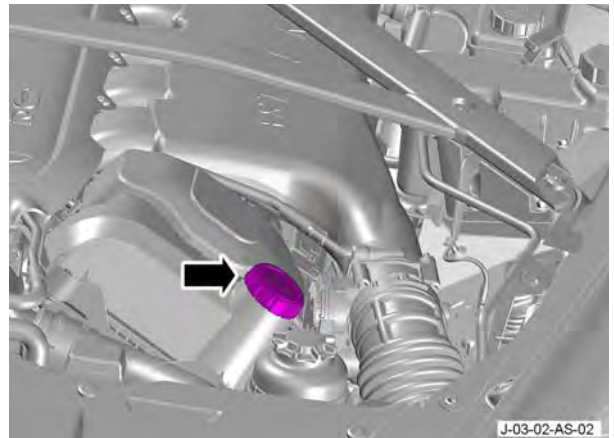
10.  **Caution: Make sure that you do not overfill the engine. If you do, there is a risk of damage to the engine.**

Use the dipstick to make sure that the engine oil level is correct.




11.  **Note: If the engine oil level is not correct do the steps that follows.**

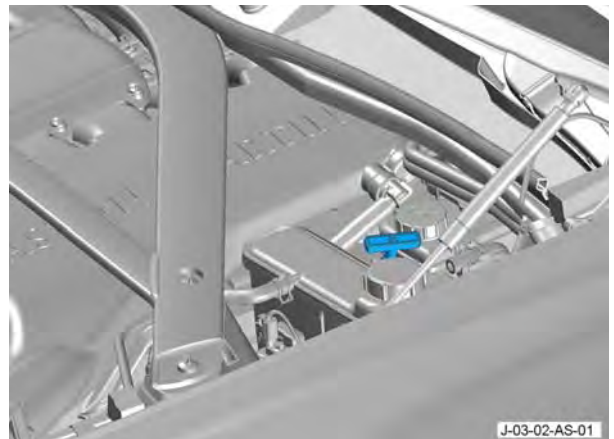
Remove the filler cap for the engine oil.



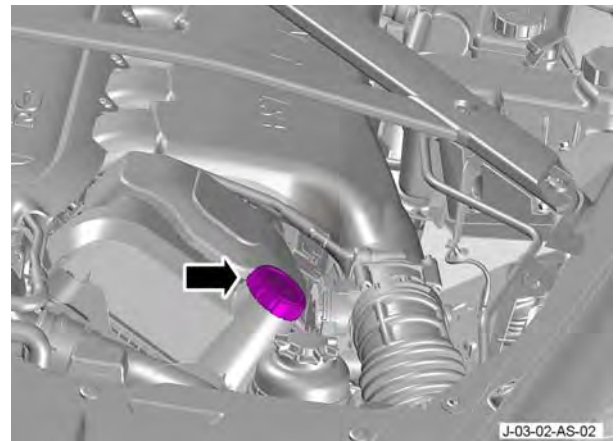
12. Add engine oil to the engine.
13. Wait two minutes before you check the engine oil level.

14.  **Caution: Make sure that you do not overfill the engine. If you do, there is a risk of damage to the engine.**

Use the dipstick to make sure that the engine oil level is correct.






15. Install and tighten the filler cap for the engine oil.



Published date: 2012-10-29 Procedure last changed: 2015-06-25 16:39:17

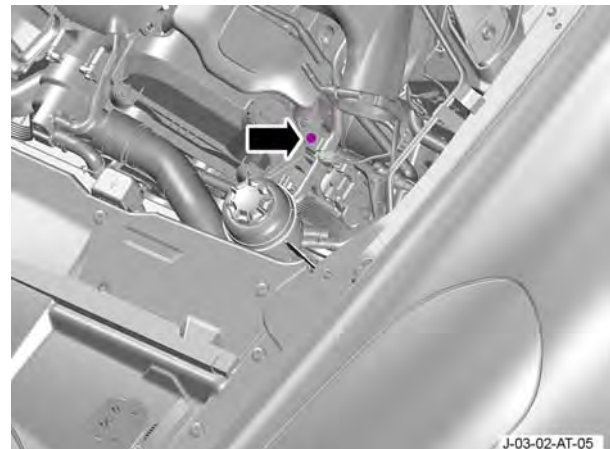
Small **Normal** **Large**

03.02.AT Oil Filter Canister (Remove and Install New Part)

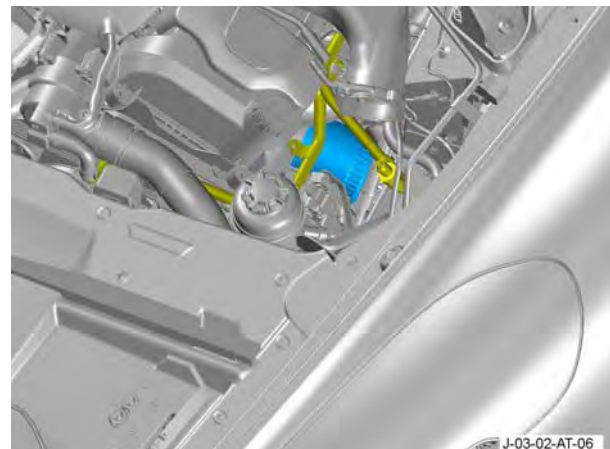
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

1. Drain the oil from the engine (03.02.AC - Oil).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the left side throttle body (03.04.HB - Left Side Throttle Body).
[\[Open Workshop Manual Procedure\]](#)
3. Put an absorbent cloth around the bottom of the oil filter canister.
4. Remove the bolt that attaches the coolant pipe to the engine.




5. Remove the oil filter canister.

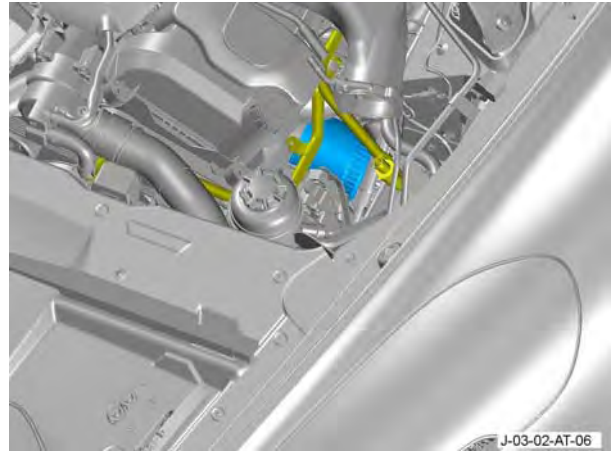


6. Remove and discard the cloth.

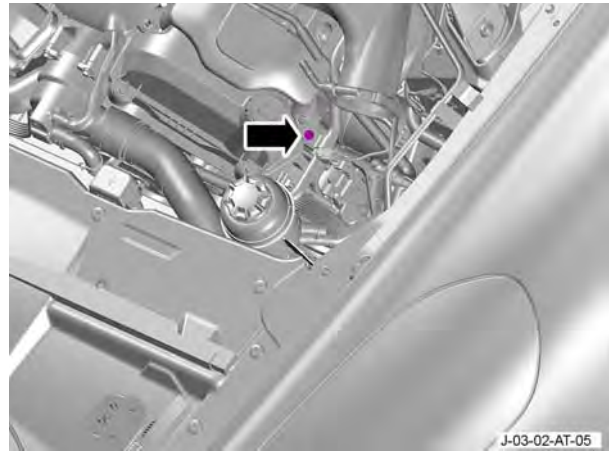
Install

1.  **Caution: Make sure that all the spilled oil is cleaned off the vehicle.**
Clean the area around the oil filter canister.
2. Apply clean oil to the mating faces between the oil filter canister and the engine oil cooler.

3. Install the oil filter canister.






4. Install and torque the bolt that attaches the coolant pipe to the engine to ** Nm.



5. Install the left side throttle body (03.04.HB - Left Side Throttle Body).
[\[Open Workshop Manual Procedure\]](#)
6. Fill the engine with oil (03.02.AC - Oil).
[\[Open Workshop Manual Procedure\]](#)

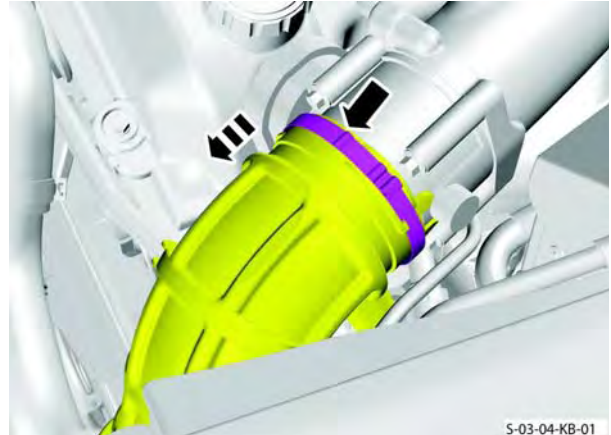
Published date: 2012-10-24 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****03.04.HB Left Side Throttle Body (Remove and Install New Part)**

-  WSM Data
-  Included Procedures
-  Is Used In

Removal

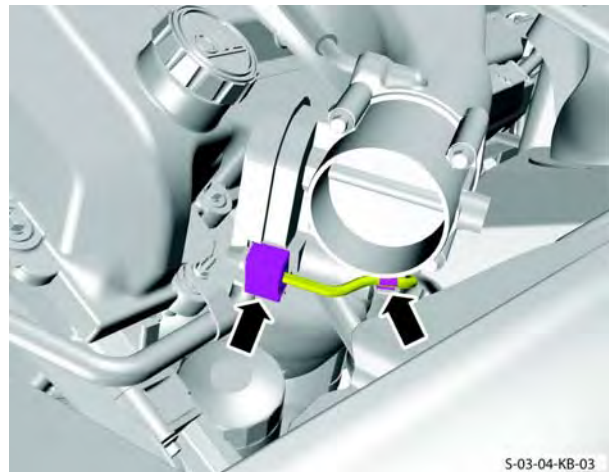
1. Disconnect the air intake hose from the throttle body.



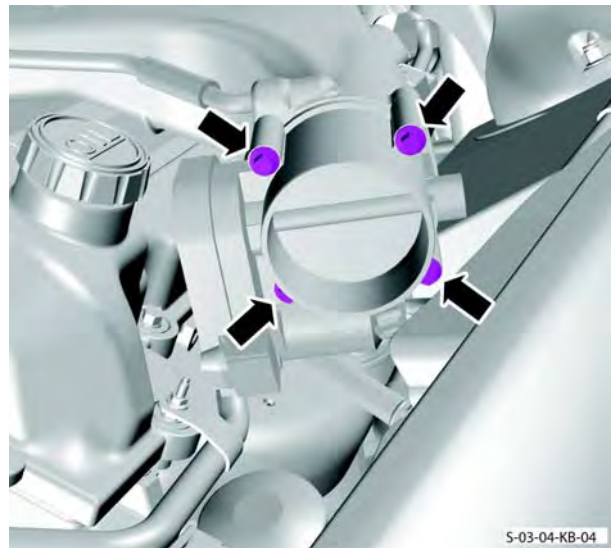
2. Remove and discard the clamp.



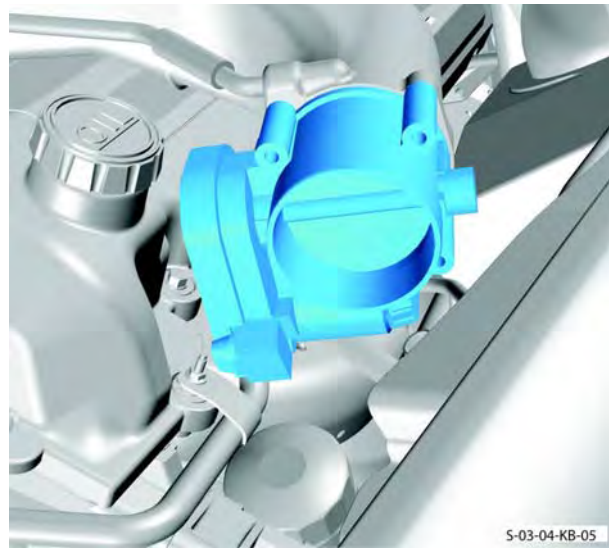
3. Disconnect the electrical connector from the throttle body.



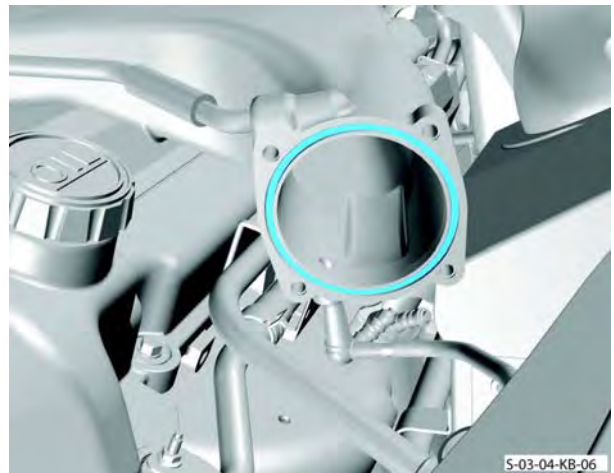
4. Remove the four bolts that attach the throttle body to the intake manifold.



5. Remove the throttle body.



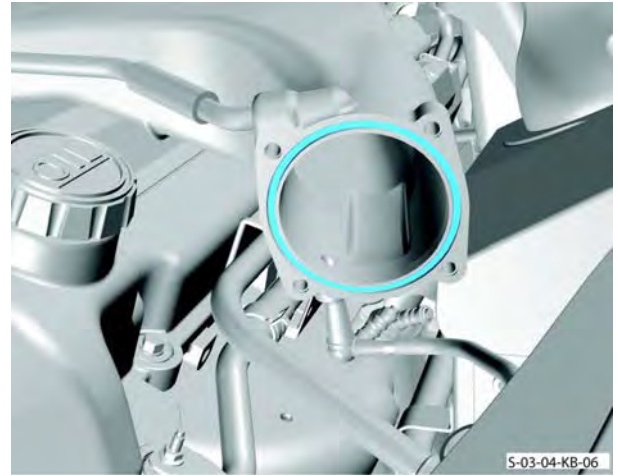
6. Remove and discard the O-ring seal.



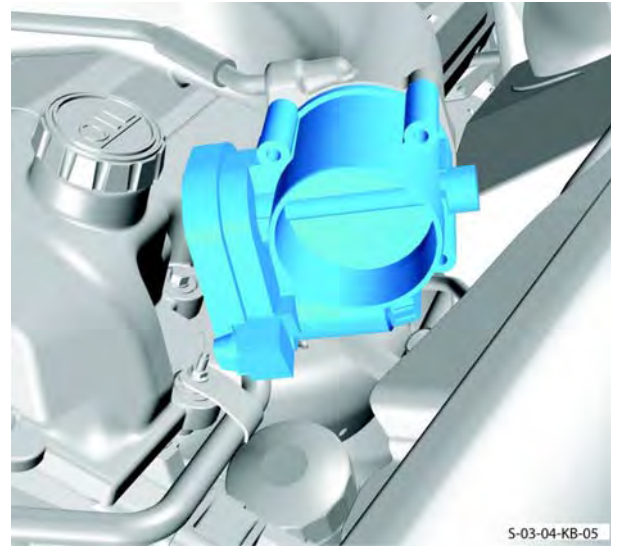
7. Clean the mating surfaces between the throttle body and the intake manifold.

Install

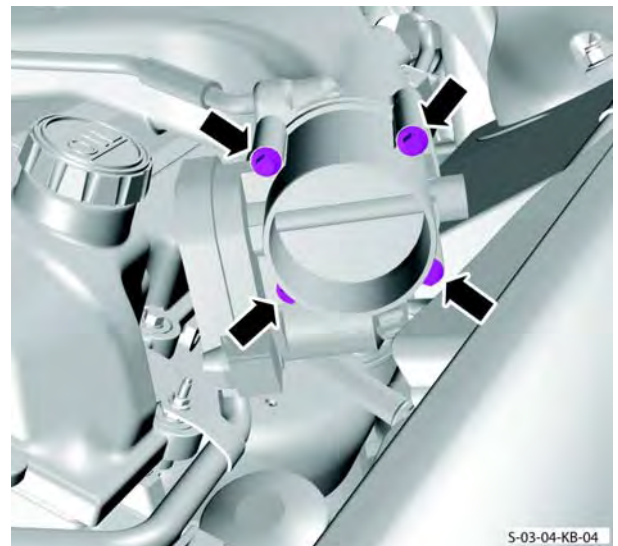
1. Install a new O-ring seal.



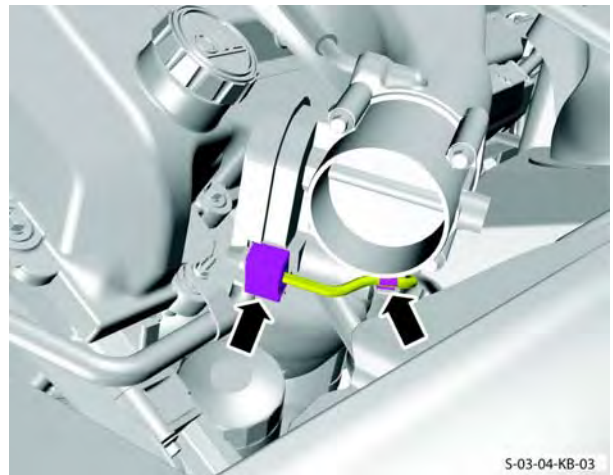
2. Install the throttle body.



3. Install and torque the four bolts that attach the throttle body to the intake manifold to 10 Nm.



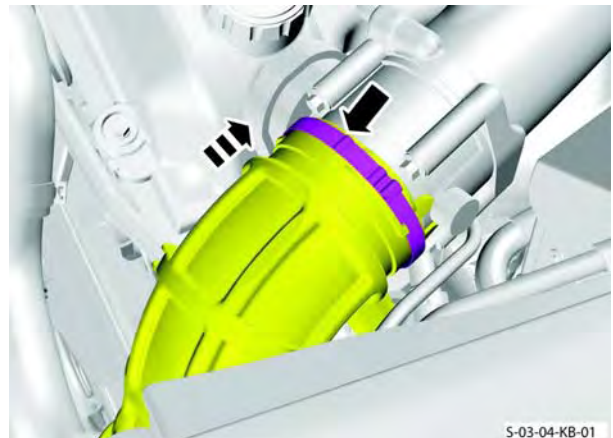
4. Connect the electrical connector to the throttle body.



5. Install a new clamp.






6. Connect the intake hose to the throttle body.



7. Tighten the clamp.

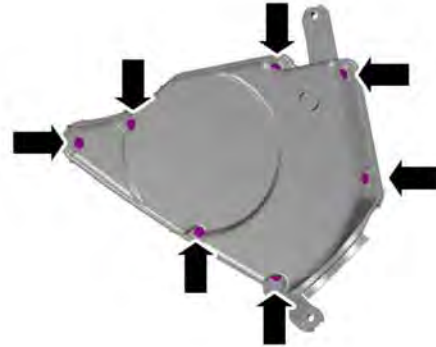
Published date: 2012-10-24 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****03.12.DB Left Side Air Cleaner Filter (Remove and Install New Part)**

-  WSM Data
-  Included Procedures
-  Is Used In

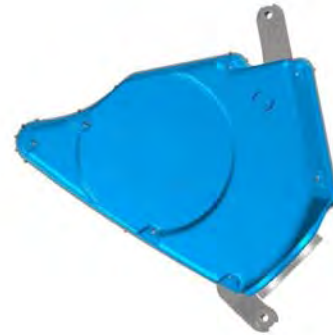
Removal

1. Remove the left side air cleaner assembly (03.12.DJ - Left Side Air Cleaner Assembly).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the seven screws that attach the cover to the air cleaner.



F-03-12-BB-10

3. Remove the cover.



F-03-12-BB-11

4. Remove the air cleaner filter.



F-03-12-BB-12

Install

1. Clean the air cleaner and the cover.
2. Make sure that the seal for the air cleaner is not damaged and that it is correctly installed.
3. Install the air cleaner filter.



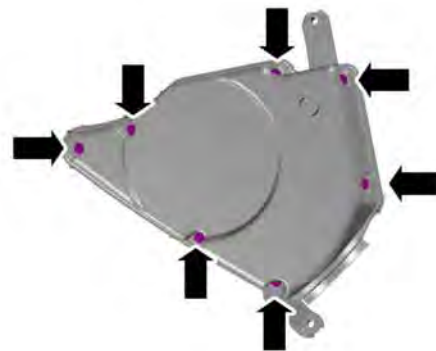
F-03-12-BB-12

4. Install the cover.



F-03-12-BB-11

5. Install and tighten the seven screws that attach the cover to the air cleaner.






F-03-12-BB-10

6. Install the left side air cleaner assembly (03.12.DJ - Left Side Air Cleaner Assembly).

[\[Open Workshop Manual Procedure\]](#)

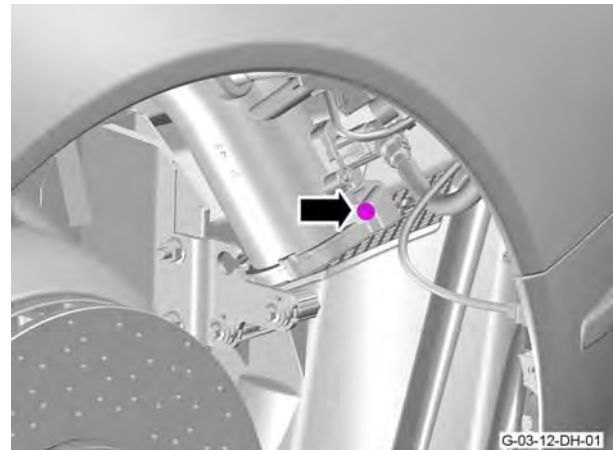
Published date: 2012-10-31 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****03.12.DH Right Side Air Cleaner Assembly (Remove and Install New Part)**

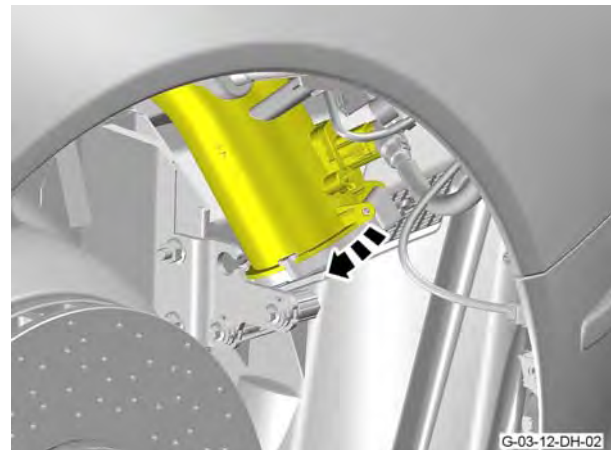
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

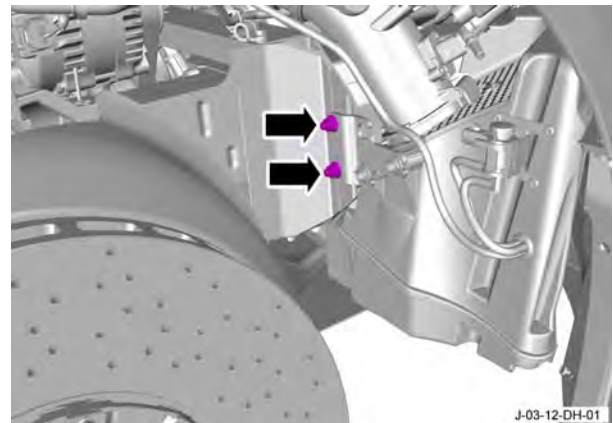
1. Remove the front right side wheel-arch liner (01.02.GB - Front Right Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the bolt that attaches the outlet pipe for the air cleaner to the air cleaner.



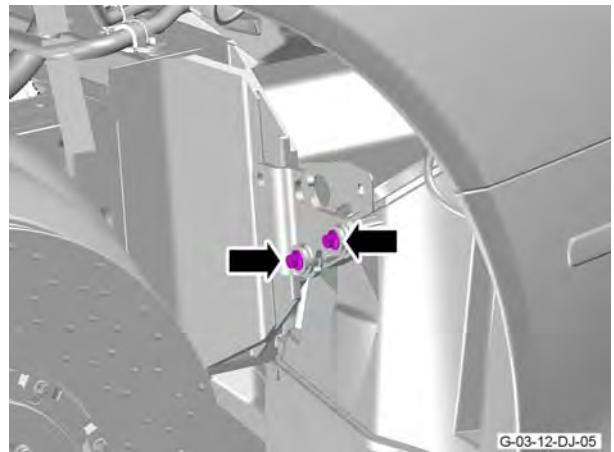
3. Release the outlet pipe for the air cleaner from the air cleaner.



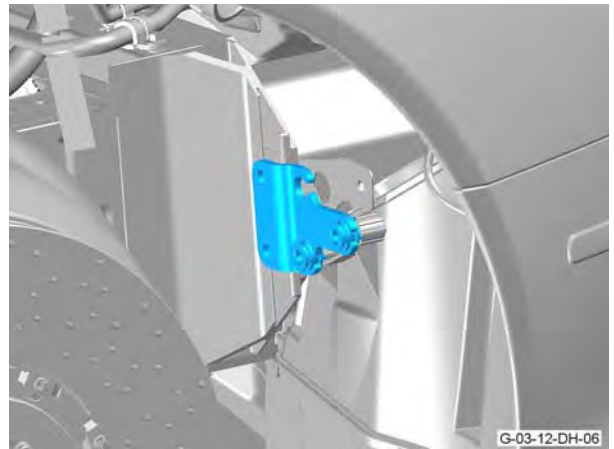
4. Remove the two nuts and bolts that attach the air cleaner bracket to the body.



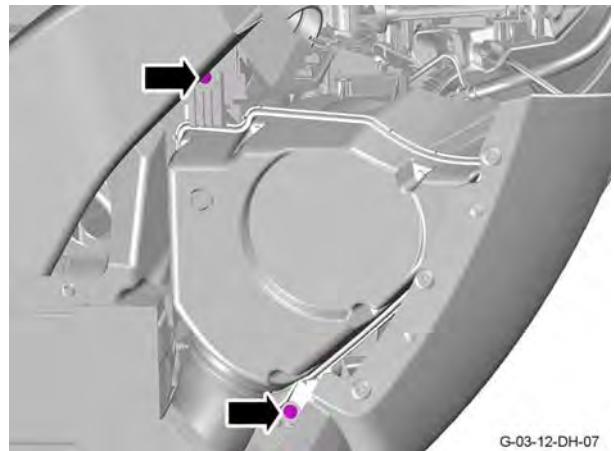
- 5. Remove the two bolts that attach the air cleaner to the air cleaner bracket.



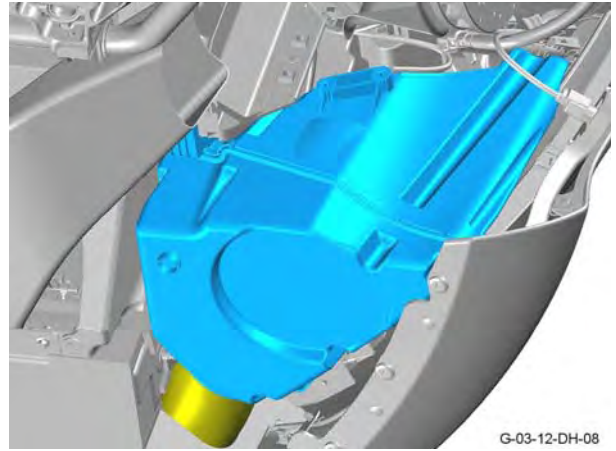
- 6. Remove the air cleaner bracket.




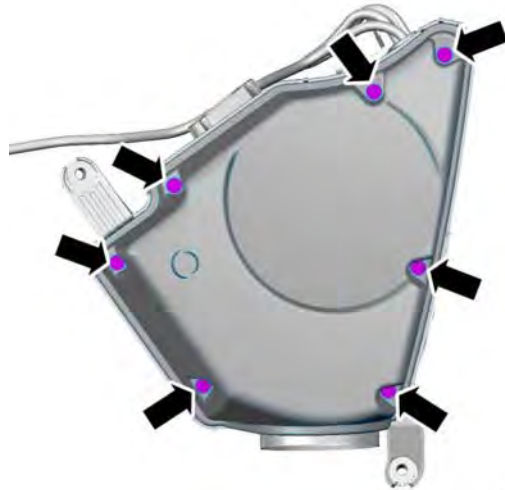
- 7. Remove the two bolts that attach the air cleaner to the body.



8. Release the intake pipe for the air cleaner and remove the air cleaner.



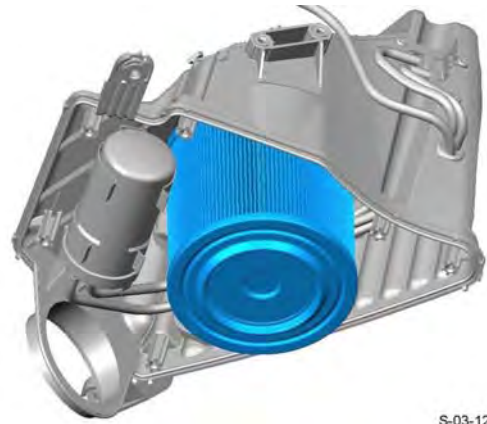
9.  *Note: If the air cleaner is removed for access only, do not do the steps that follow.*
Remove the seven screws that attach the bottom cover to the air cleaner assembly.



10. Remove the bottom cover from the air cleaner.



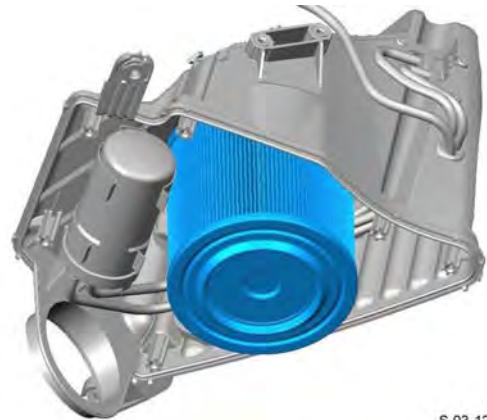
11. Twist and remove the air cleaner filter.



S-03-12-BB-13

Install

1. Clean the air cleaner assembly and the bottom cover.
2. Make sure that the seal for the air cleaner assembly is not damaged and that it is correctly installed.
3. Install the air cleaner filter.



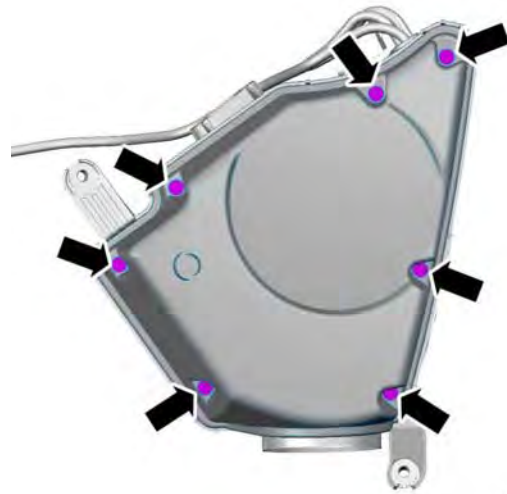
S-03-12-BB-13

4. Install the bottom cover to the air cleaner.



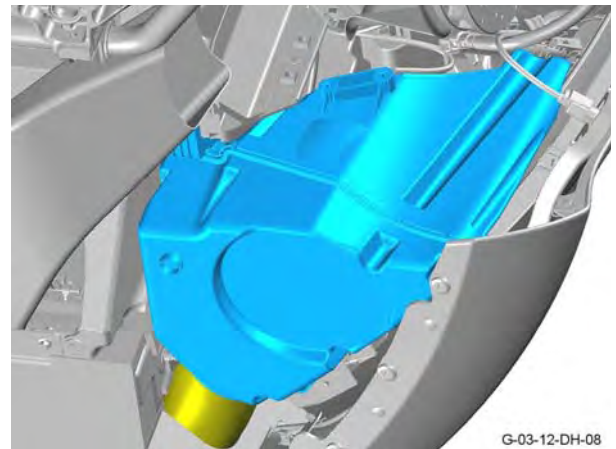
S-03-12-BB-12

5. Install and tighten the seven screws that attach the bottom cover to the air cleaner assembly.



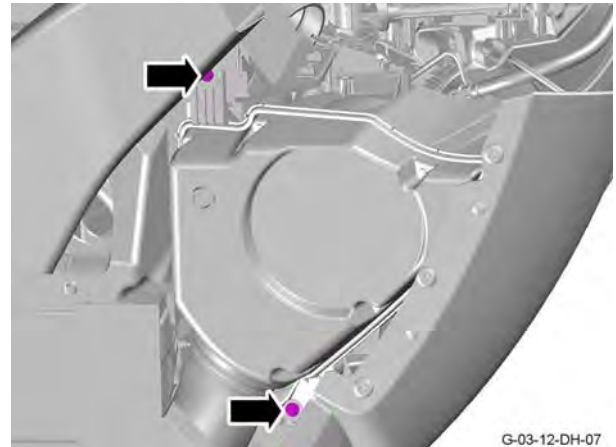
S-03-12-BB-11

6. Install the air cleaner and attach the intake pipe for the air cleaner.



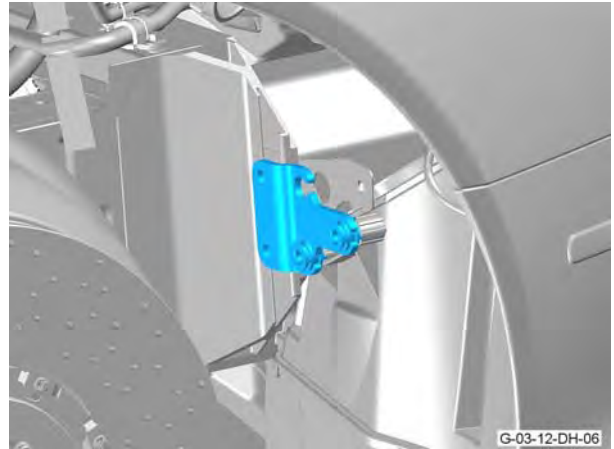
G-03-12-DH-08

7. Install and tighten the two bolts that attach the air cleaner to the body.

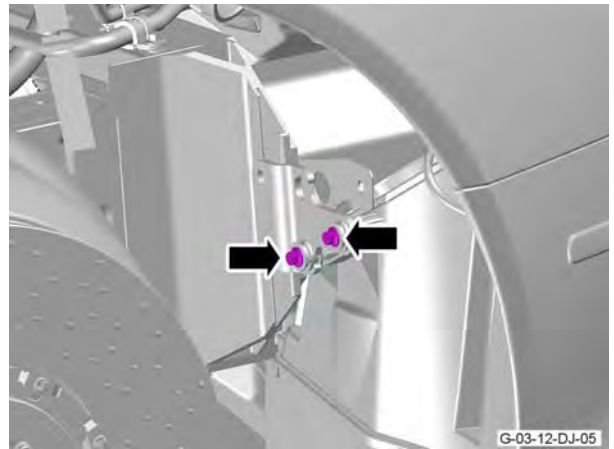


G-03-12-DH-07

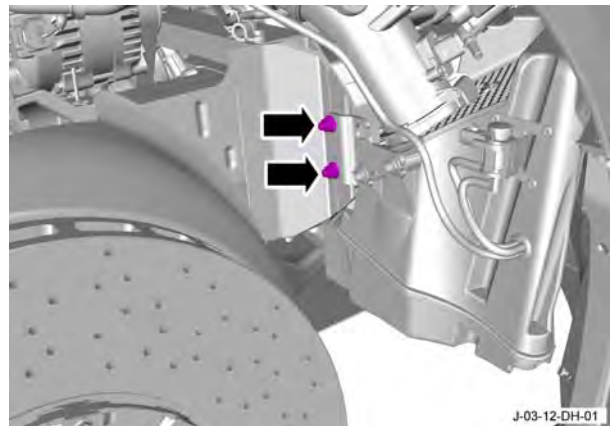
8. Install the air cleaner bracket.



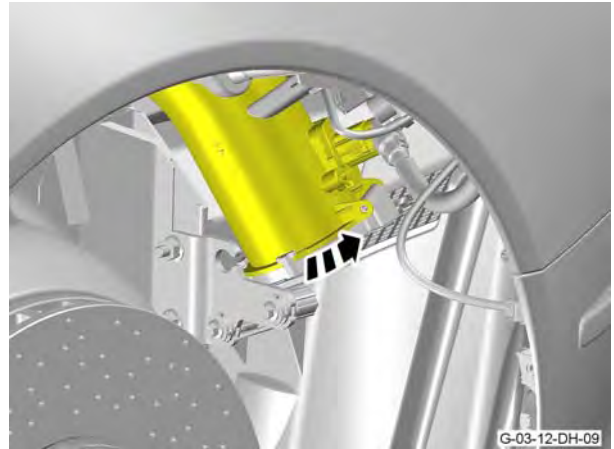
9. Install and tighten the two bolts that attach the air cleaner to the air cleaner bracket.



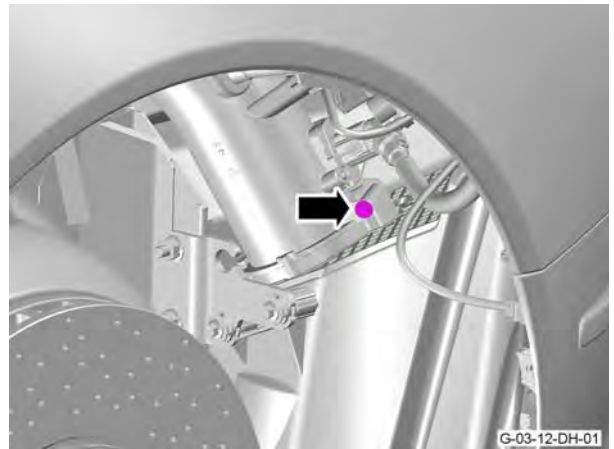
10. Install and torque the two nuts and bolts that attach the air cleaner bracket to the body to 23 Nm.



11. Install the outlet pipe for the air cleaner to the air cleaner.






12. Install and tighten the bolt that attaches the outlet pipe for the air cleaner to the air cleaner.



13. Install the front right side wheel-arch liner (01.02.GB - Front Right Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)

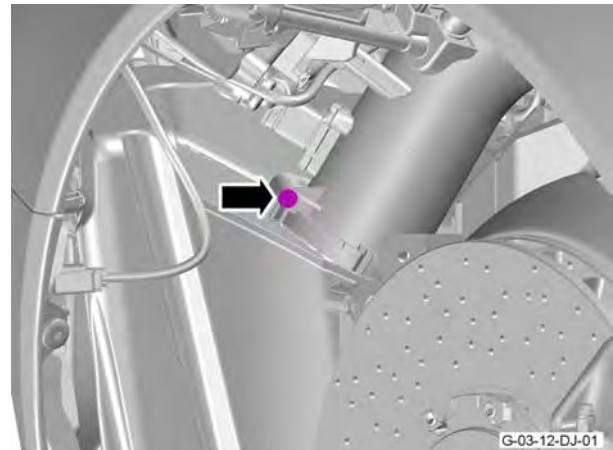
Published date: 2012-10-31 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****03.12.DJ Left Side Air Cleaner Assembly (Remove and Install New Part)**

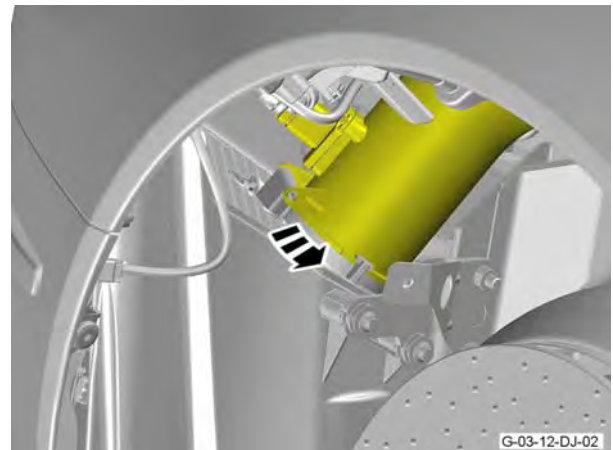
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

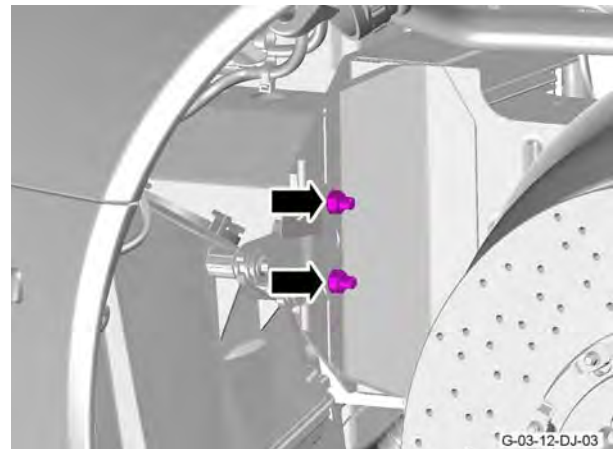
1. Remove the front left side wheel-arch liner (01.02.FB - Front Left Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the bolt that attaches the outlet pipe for the air cleaner to the air cleaner.



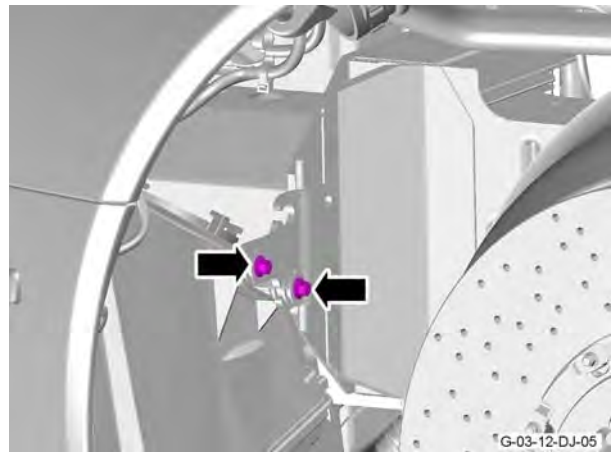
3. Release the outlet pipe for the air cleaner from the air cleaner.



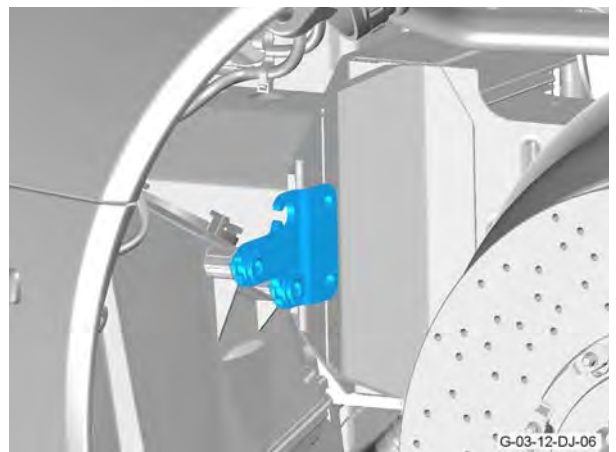
4. Remove the two nuts and bolts that attach the air cleaner bracket to the body.



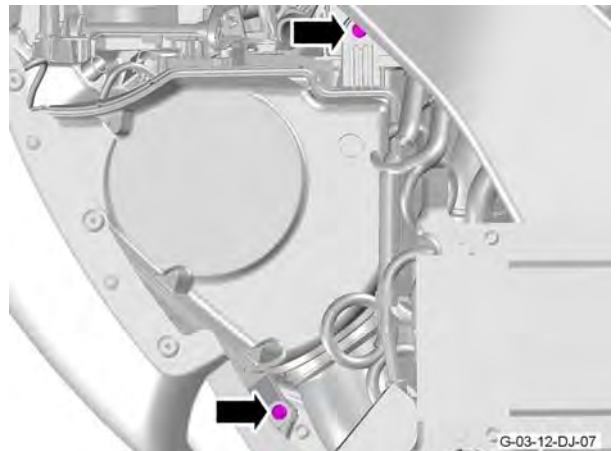
- 5. Remove the two bolts that attach the air cleaner to the air cleaner bracket.



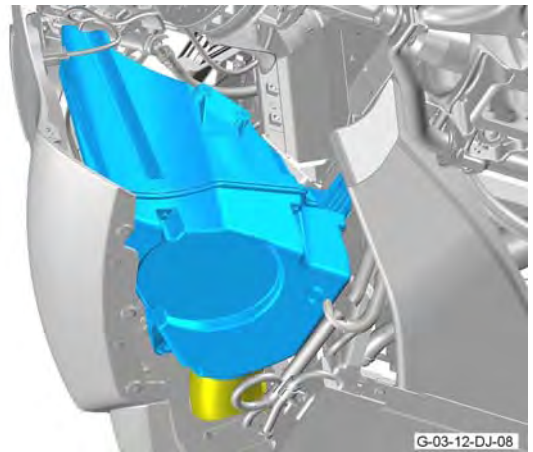
- 6. Remove the air cleaner bracket.




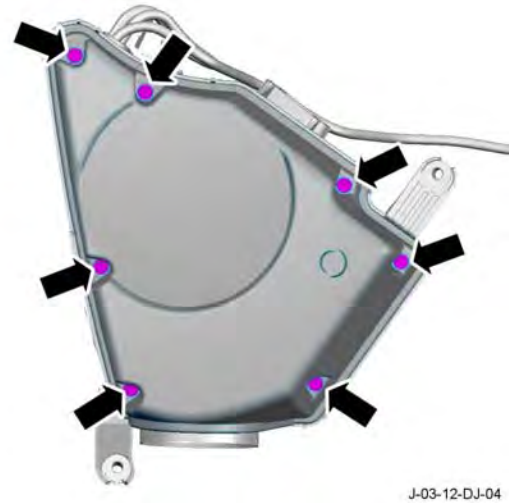
- 7. Remove the two bolts that attach the air cleaner to the body.



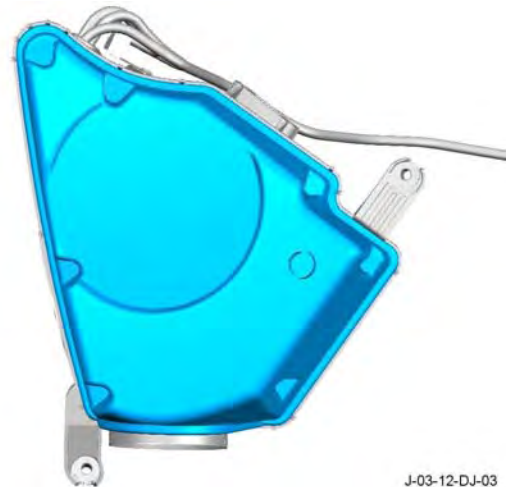
8. Release the intake pipe for the air cleaner and remove the air cleaner.



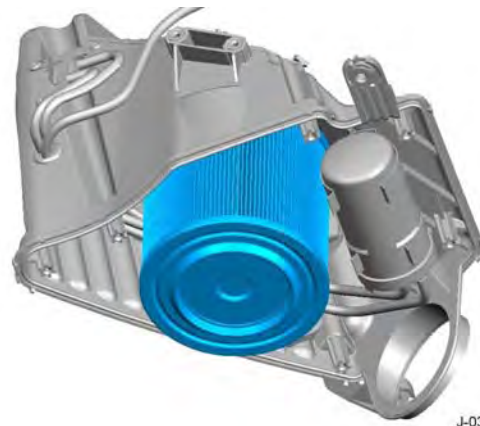
9.  *Note: If the air cleaner is removed for access only, do not do the steps that follow.*
Remove the seven screws that attach the bottom cover to the air cleaner assembly.



10. Remove the bottom cover from the air cleaner.



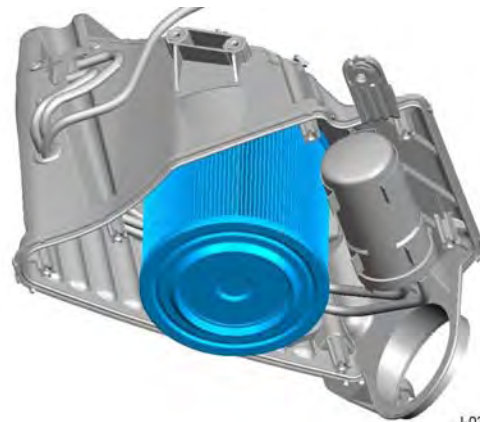
11. Twist and remove the air cleaner filter.



J-03-12-DJ-05

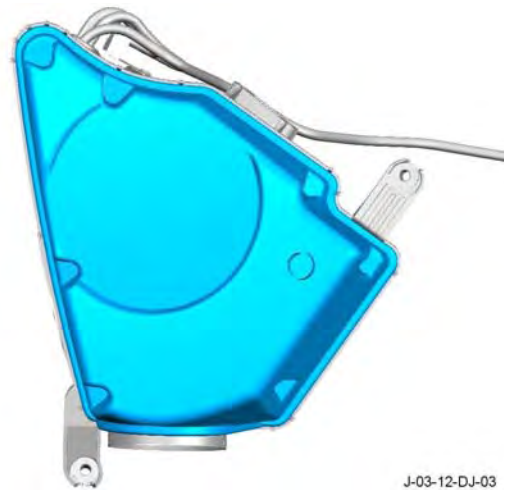
Install

1. Clean the air cleaner assembly and the bottom cover.
2. Make sure that the seal for the air cleaner assembly is not damaged and that it is correctly installed.
3. Install the air cleaner filter.



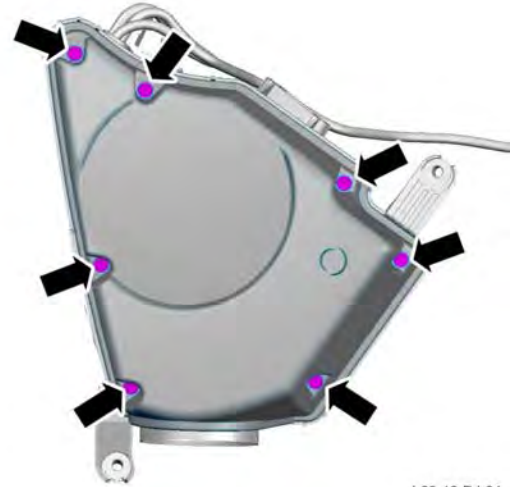
J-03-12-DJ-05

4. Install the bottom cover to the air cleaner.



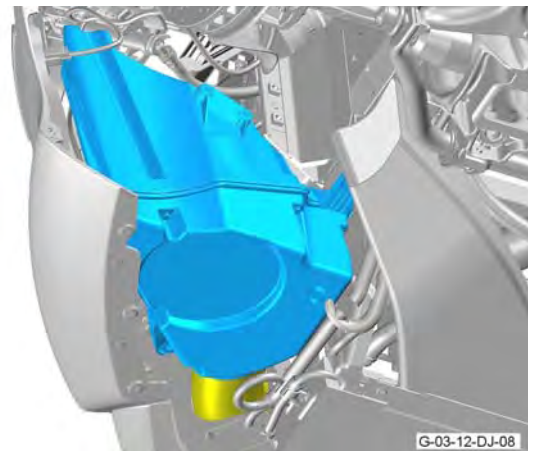
J-03-12-DJ-03

5. Install and tighten the seven screws that attach the bottom cover to the air cleaner assembly.



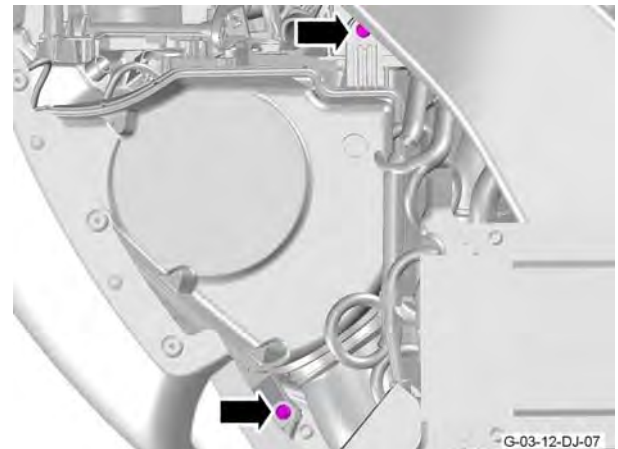
J-03-12-DJ-04

6. Install the air cleaner and attach the intake pipe for the air cleaner.



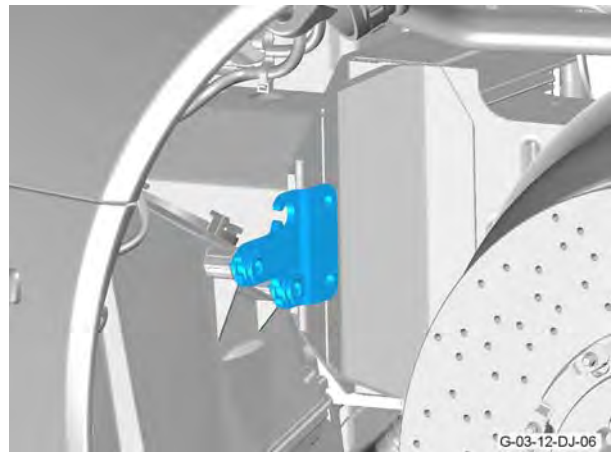
G-03-12-DJ-08

7. Install and tighten the two bolts that attach the air cleaner to the body.

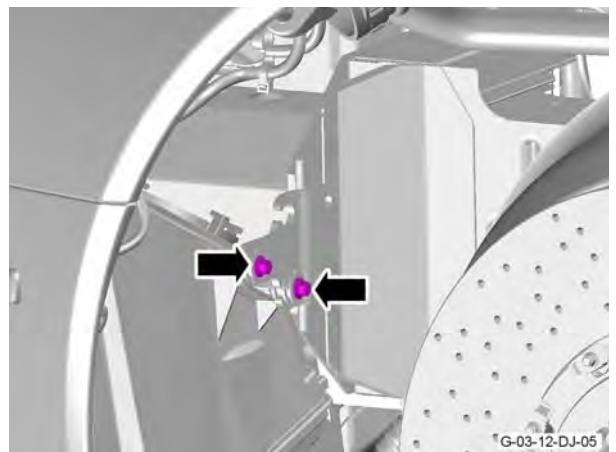


G-03-12-DJ-07

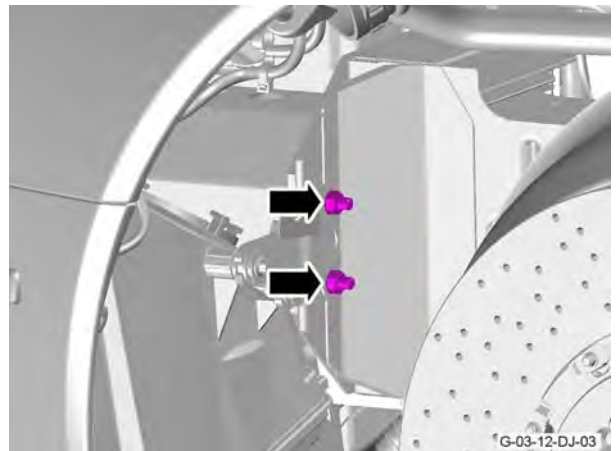
8. Install the air cleaner bracket.



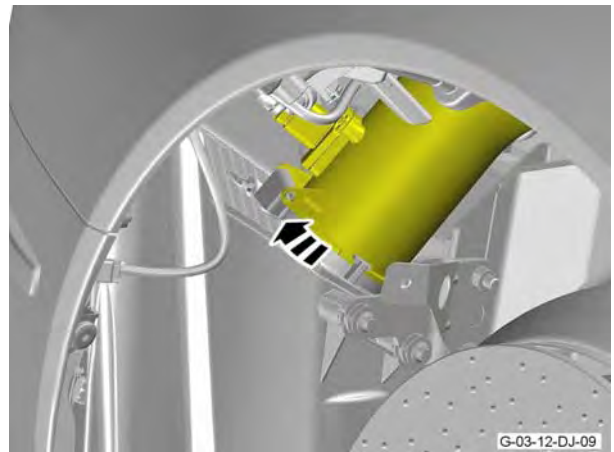
9. Install and tighten the two bolts that attach the air cleaner to the air cleaner bracket.



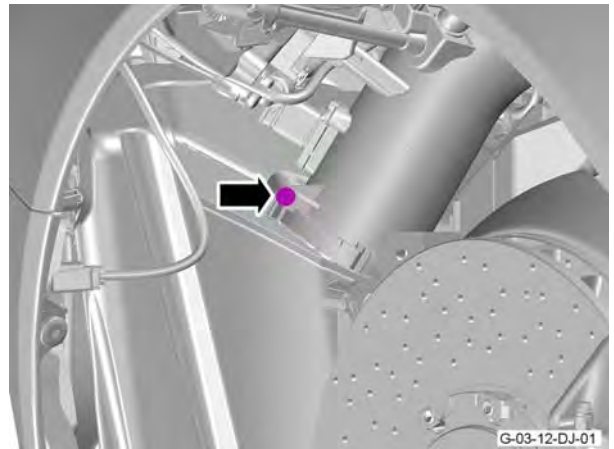
10. Install and torque the two nuts and bolts that attach the air cleaner bracket to the body to 23 Nm.



11. Install the outlet pipe for the air cleaner to the air cleaner.






12. Install and tighten the bolt that attaches the outlet pipe for the air cleaner to the air cleaner.



13. Install the front left side wheel-arch liner (01.02.FB - Front Left Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)

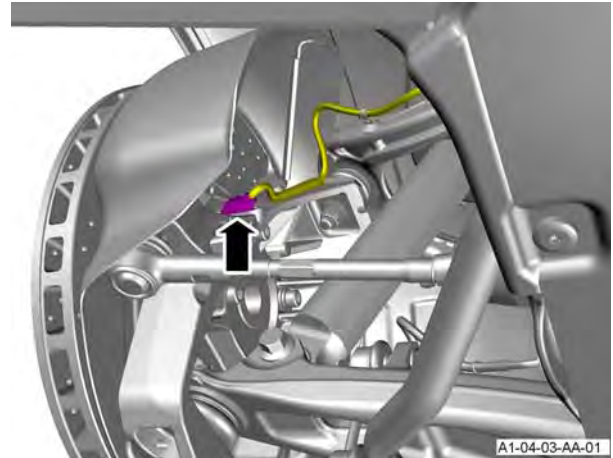
Published date: 2012-10-31 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****04.03.AG Right Side Front Spring and Damper Assembly (Remove and Install New Part)**

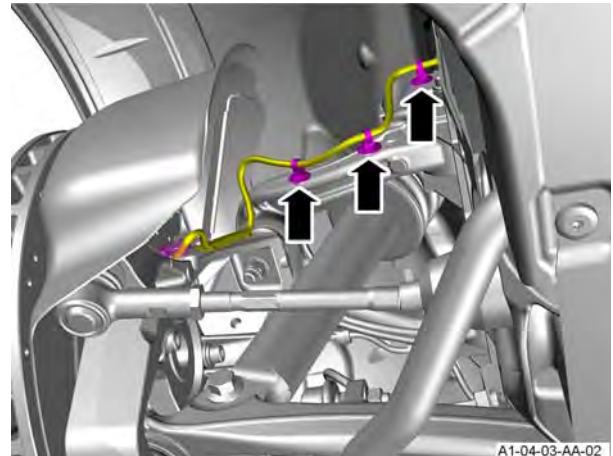
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

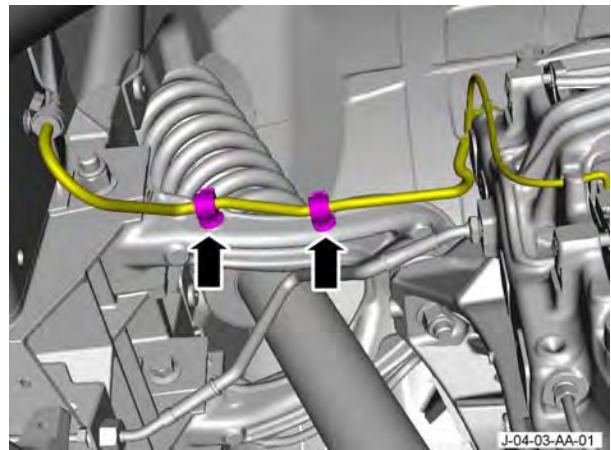
1. Remove the right side front crush brace bracket (01.01.LD - Right Side Front Crush Brace Bracket).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the right side front wheel and tyre (04.04.EC - Wheel and Tyre).
[\[Open Workshop Manual Procedure\]](#)
3. Disconnect the electrical connector from the wheel speed sensor.



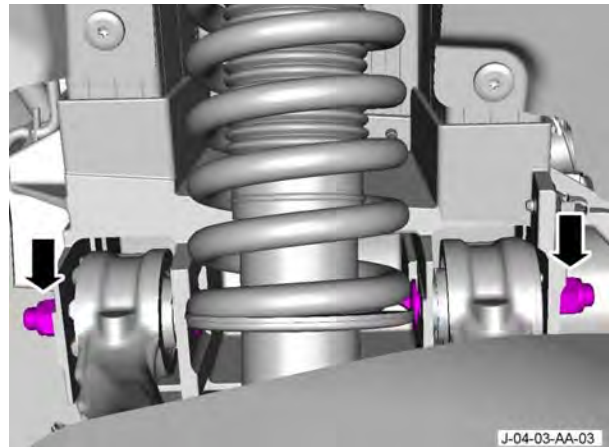
4. Release the three fir tree clips that attach the wiring harness for the wheel speed sensor to the suspension top arm.



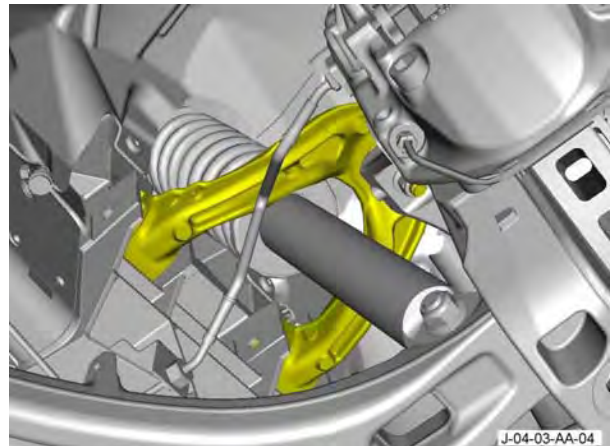
5. Release the two fir tree clips that attach the pad wear lead to the suspension top arm.



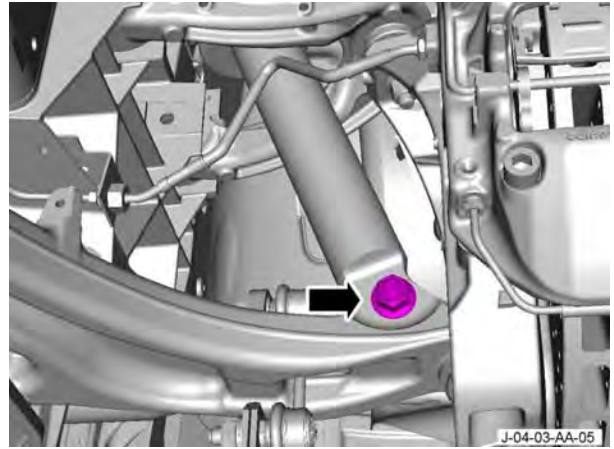
6. Remove the two nuts and two bolts that attach the suspension top arm to the body.



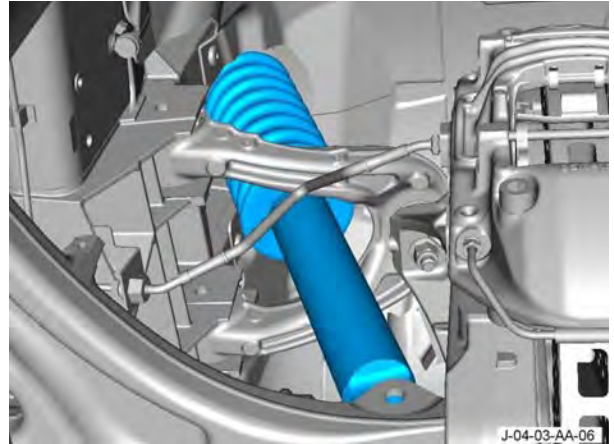
7. Release the suspension top arm from the body.



8. Remove the nut and bolt that attach the spring and damper assembly to the suspension bottom arm.

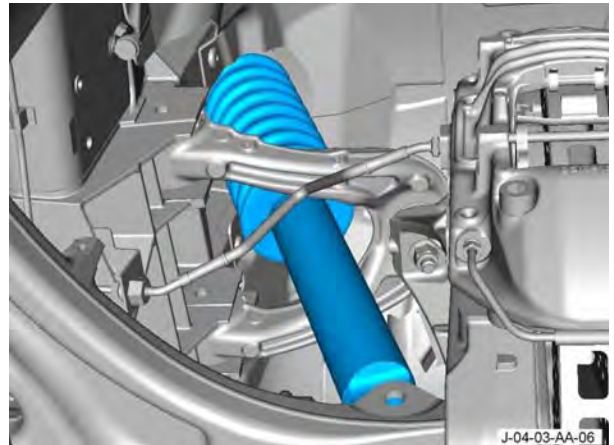


9. **⚠ Warning: The suspension is heavy. You must have the aid of one more technician to do the step that follows.**
Remove the spring and damper assembly.

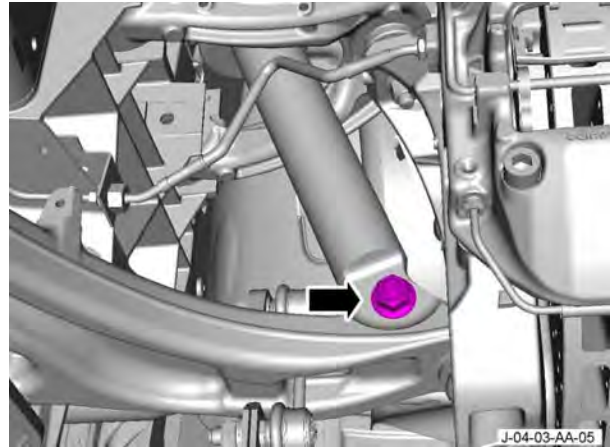


Install

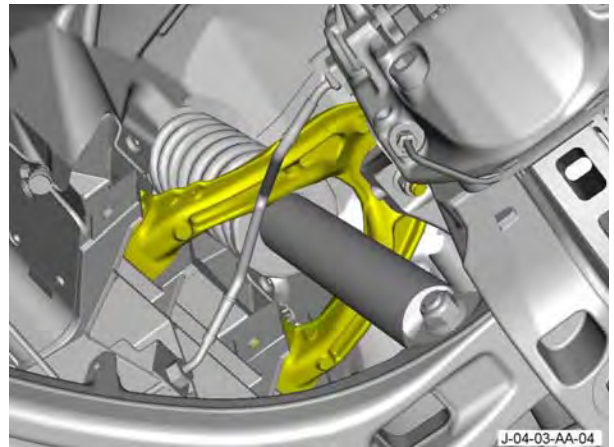
1. **⚠ Warning: The suspension is heavy. You must have the aid of one more technician to do the step that follows.**
Install the spring and damper assembly.




2. Install and torque the nut and bolt that attach the spring and damper assembly to the suspension bottom arm to 175 Nm.

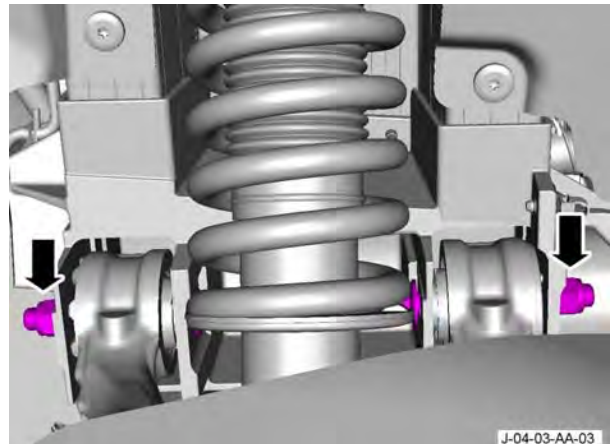


3. Install the suspension top arm to the body.

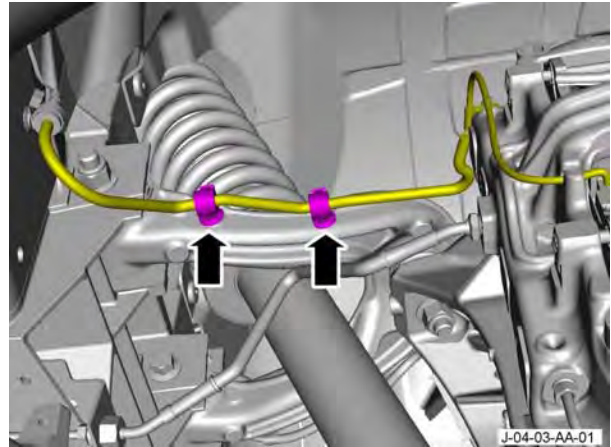


4.  **Caution: Do not fully tighten the nuts and bolts that attach the suspension top arm to the body at this step. Only tighten the nuts and bolts of the suspension top arm when the vehicle is at its usual ride-height. If you do not do this, the bushes in the suspension top arm will have too much stress when the suspension is moved to its maximum travel.**

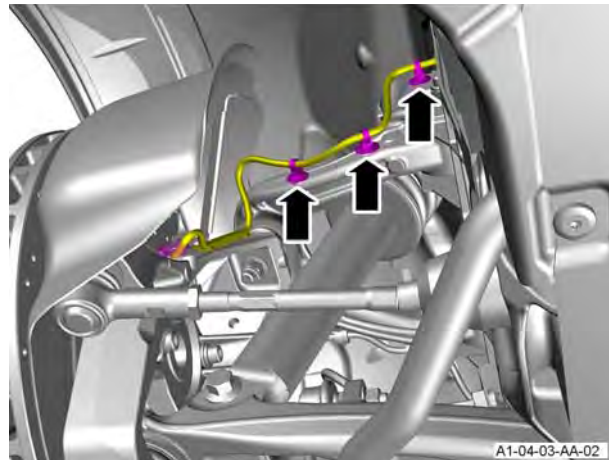
Install, but do not fully tighten, the two nuts and two bolts that attach the suspension top arm to the body.



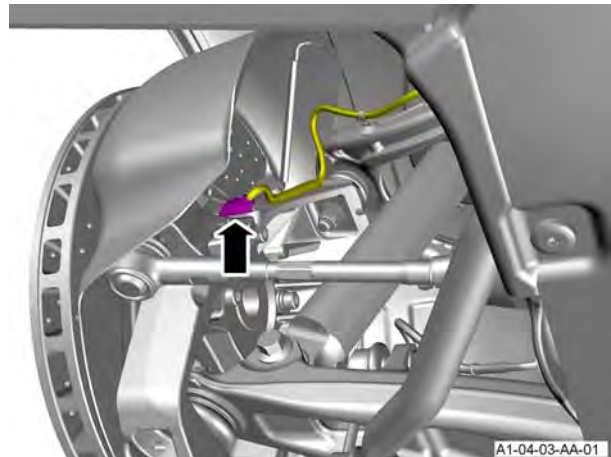
5. Install the two fir tree clips that attach the pad wear lead to the suspension top arm.




6. Install the three fir tree clips that attach the wiring harness for the wheel speed sensor to the suspension top arm.



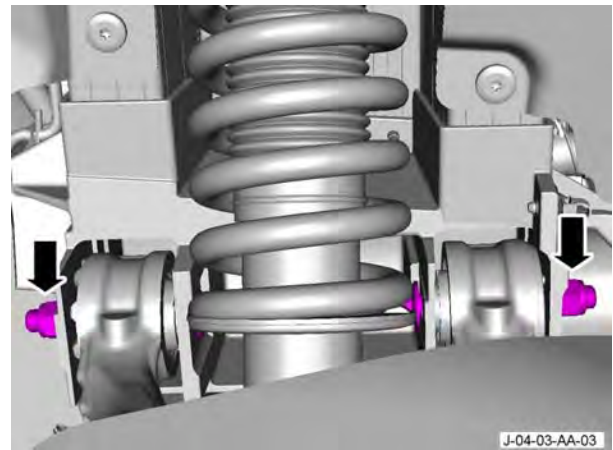
7. Connect the electrical connector to the wheel speed sensor.



8. Install the right side front wheel and tyre (04.04.EC - Wheel and Tyre).
[\[Open Workshop Manual Procedure\]](#)
9. Install the right side front crush brace bracket (01.01.LD - Right Side Front Crush Brace Bracket).
[\[Open Workshop Manual Procedure\]](#)
10. Use the applicable equipment to lift the vehicle and make it safe.

11.  *Note: When you torque the nuts and the bolts make sure that the vehicle is at its correct ride height.*

Torque the two nuts and the two bolts that attach the suspension top arm to the body to 115 Nm.






12. Do a check and adjust the four wheel alignment (04.00.AD - Check and Adjust the Four Wheel Alignment).

[\[Open Workshop Manual Procedure\]](#)

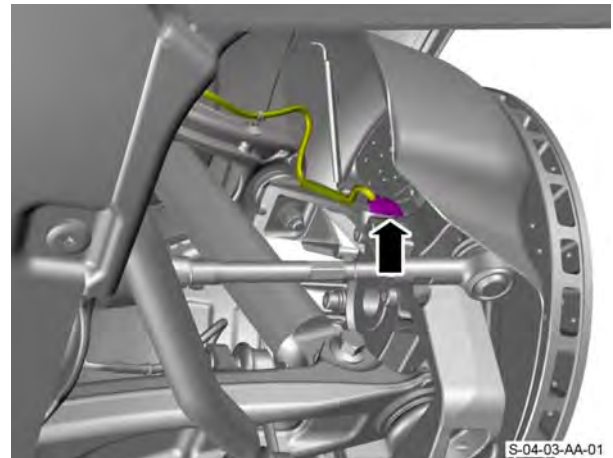
Published date: 2012-10-31 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****04.03.AH Left Side Front Spring and Damper Assembly (Remove and Install New Part)**

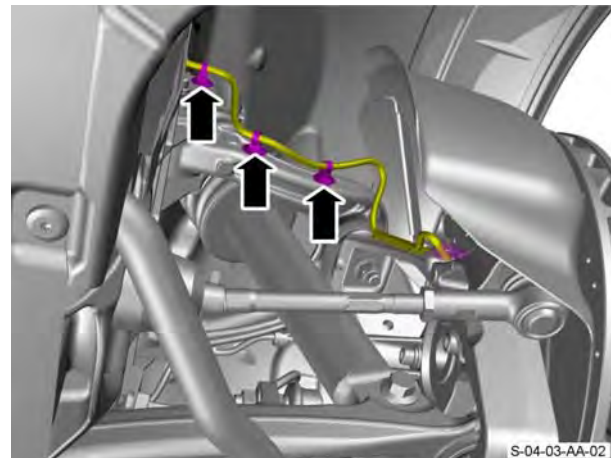
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

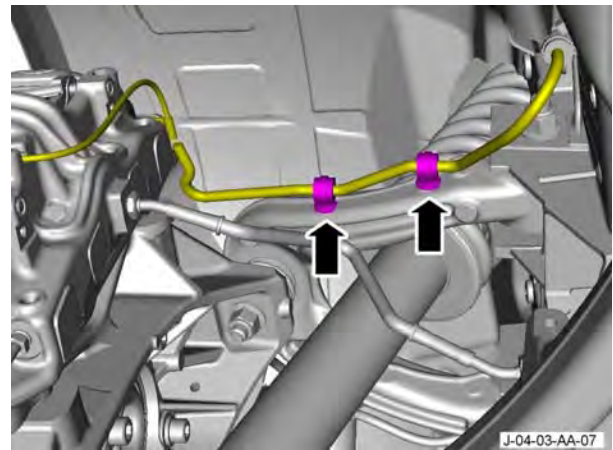
1. Remove the left side front crush brace bracket (01.01.LE - Left Side Front Crush Brace Bracket).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the left side front wheel and tyre (04.04.EC - Wheel and Tyre).
[\[Open Workshop Manual Procedure\]](#)
3. Disconnect the electrical connector from the wheel speed sensor.



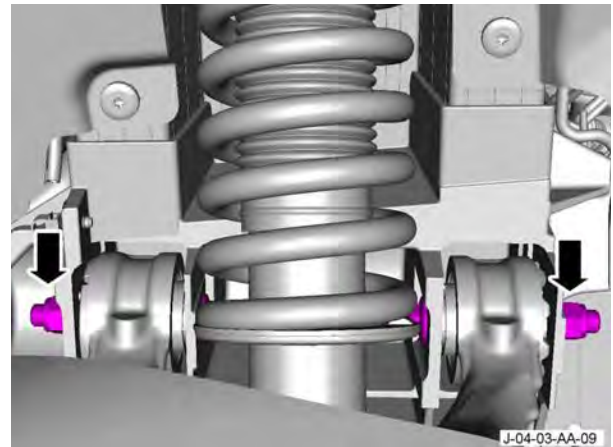
4. Release the three fir tree clips that attach the wiring harness for the wheel speed sensor to the suspension top arm.



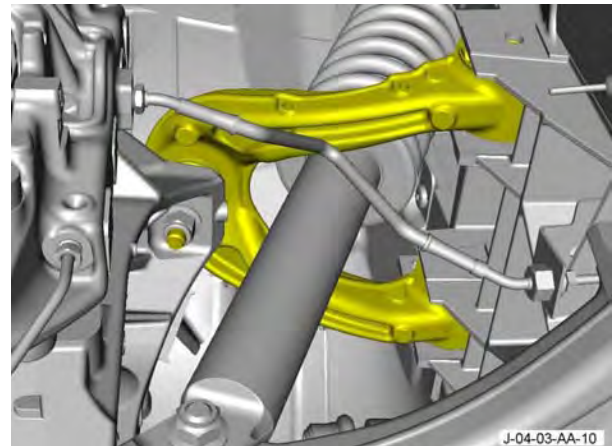
5. Release the two fir tree clips that attach the pad wear lead to the suspension top arm.



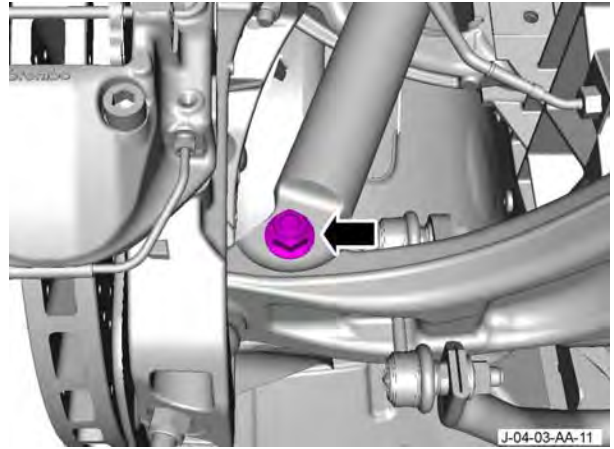
6. Remove the two nuts and two bolts that attach the suspension top arm to the body.



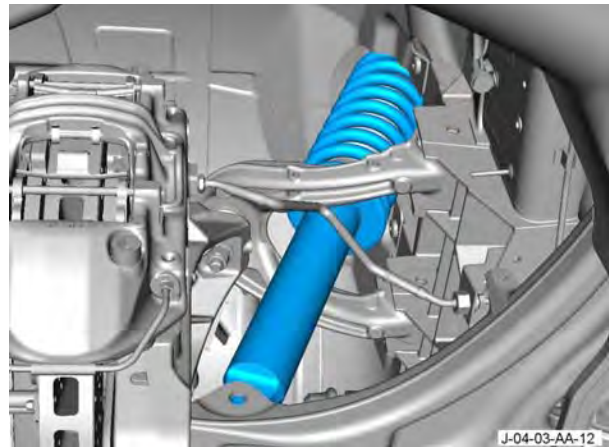
7. Release the suspension top arm from the body.



8. Remove the nut and bolt that attach the spring and damper assembly to the suspension bottom arm.

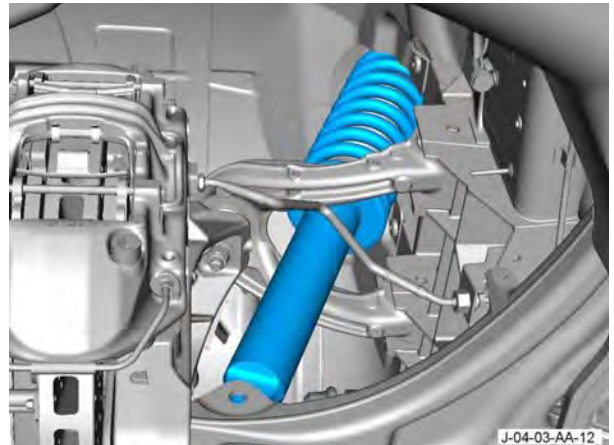


9. **⚠ Warning: The suspension is heavy. You must have the aid of one more technician to do the step that follows.**
Remove the spring and damper assembly.

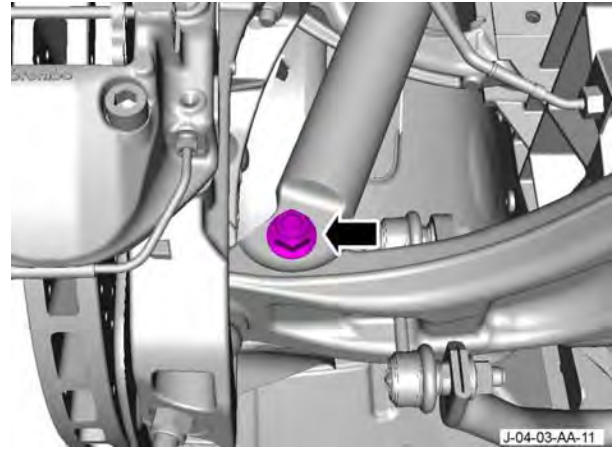


Install

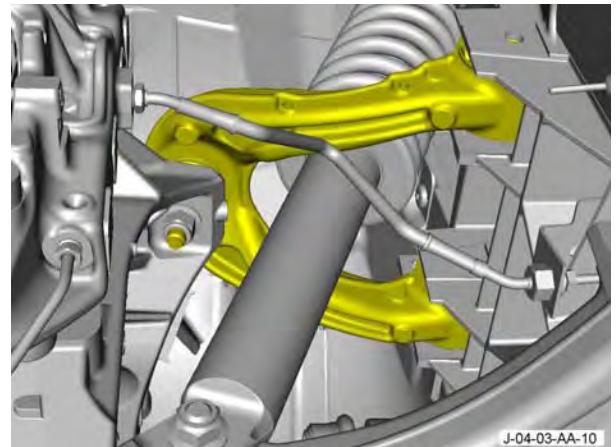
1. **⚠ Warning: The suspension is heavy. You must have the aid of one more technician to do the step that follows.**
Install the spring and damper assembly.




2. Install and torque the nut and bolt that attach the spring and damper assembly to the suspension bottom arm to 175 Nm.

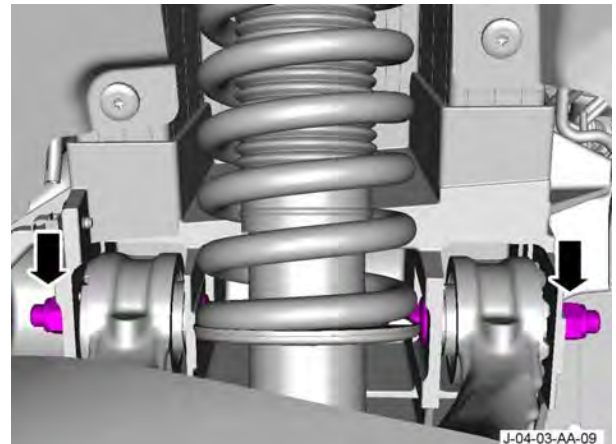


3. Install the front suspension top arm to the body.

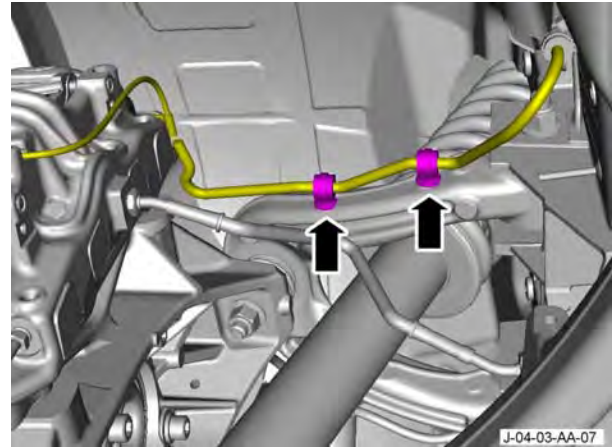


4.  **Caution: Do not fully tighten the nuts and bolts that attach the suspension top arm to the body at this step. Only tighten the nuts and bolts of the suspension top arm when the vehicle is at its usual ride-height. If you do not do this, the bushes in the suspension top arm will have too much stress when the suspension is moved to its maximum travel.**

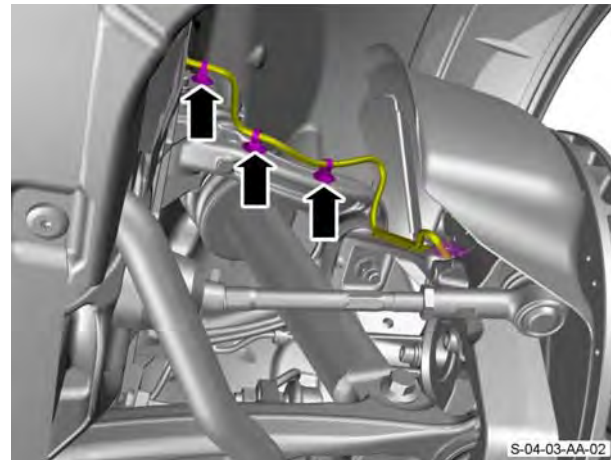
Install, but do not fully tighten, the two nuts and two bolts that attach the suspension top arm to the body.



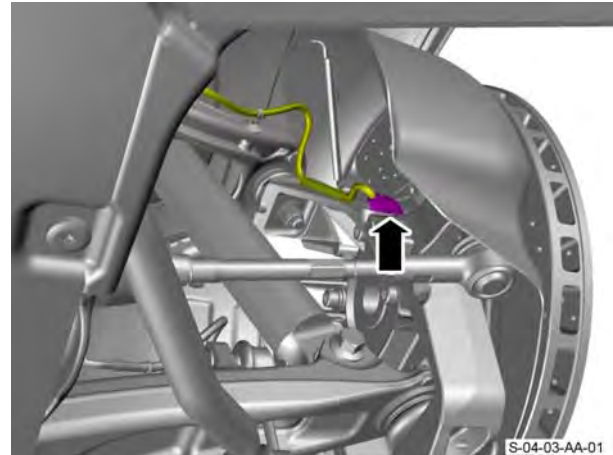
5. Install the two fir tree clips that attach the pad wear lead to the suspension top arm.



6. Install the three fir tree clips that attach the pad wear lead to the suspension top arm.



7. Connect the electrical connector to the wheel speed sensor.




8. Install the left side front wheel and tyre (04.04.EC - Wheel and Tyre).

[\[Open Workshop Manual Procedure\]](#)

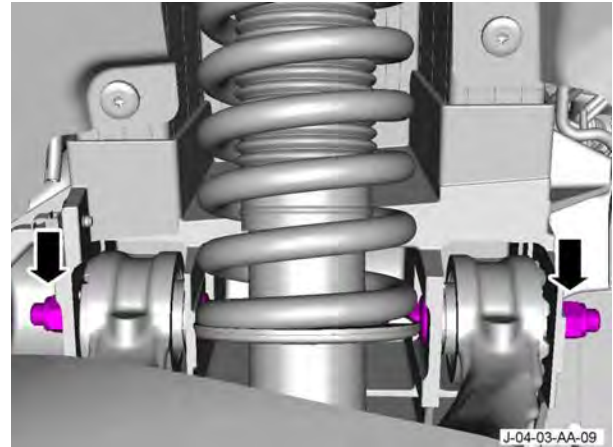
9. Install the left side front crush brace bracket (01.01.LE - Left Side Front Crush Brace Bracket).

[\[Open Workshop Manual Procedure\]](#)

10. Use the applicable equipment to lift the vehicle and make it safe.

11.  *Note: When you torque the nuts and the bolts make sure that the vehicle is at its correct ride height.*

Torque the two nuts and the two bolts that attach the left side front suspension top arm to the body to 115 Nm.






12. Do a check and adjust the four wheel alignment (04.00.AD - Check and Adjust the Four Wheel Alignment).

[\[Open Workshop Manual Procedure\]](#)

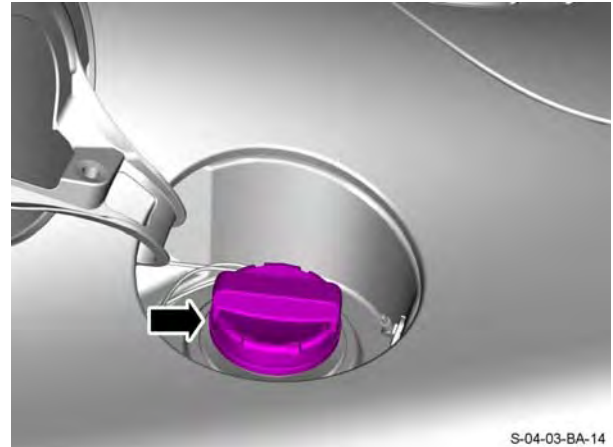
Published date: 2012-10-31 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****04.03.BA Rear Two Spring and Damper Assemblies (Remove and Install New Part)**

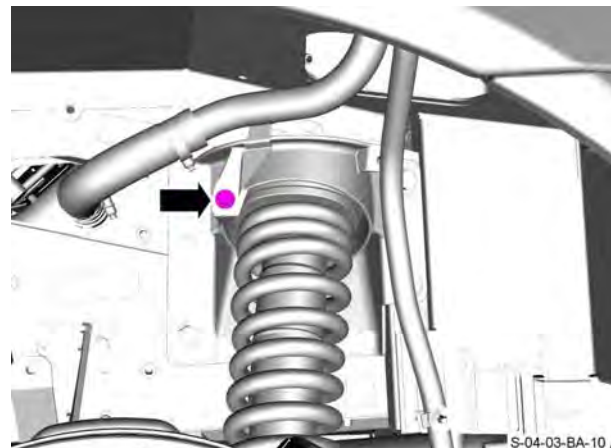
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

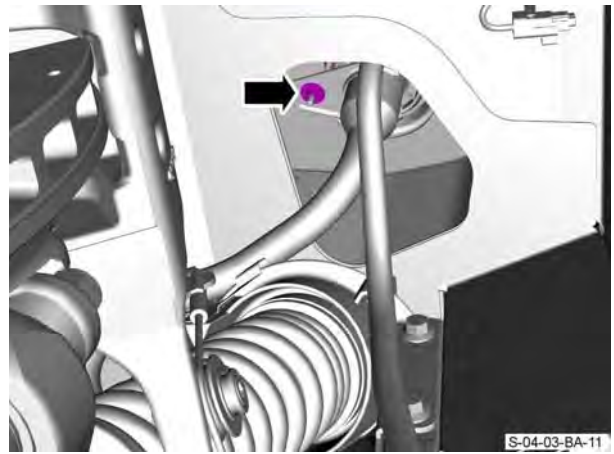
1. Open the fuel filler lid.
2. Remove the fuel filler cap.



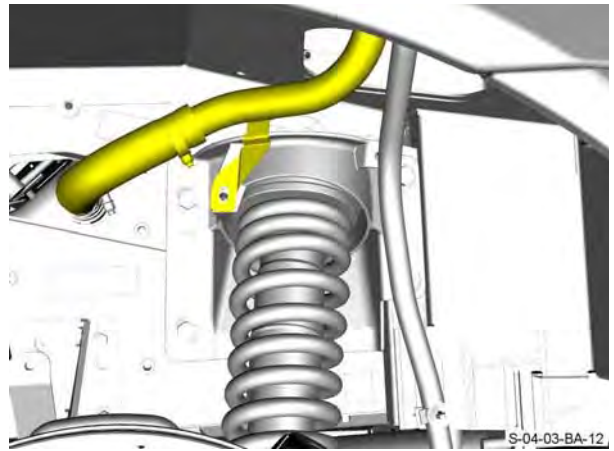
3. Fully release the handbrake lever.
4. Remove the rear wheels and tyres (04.04.ED - Wheels and Tyres - Two).
[\[Open Workshop Manual Procedure\]](#)
5. Remove the rear right side wheel-arch liner (01.02.HB - Rear Right Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)
6. Remove the rear left side wheel-arch liner (01.02.JB - Rear Left Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)
7. Remove the screw that attaches the fuel filler neck to the spring and damper assembly mounting plate.



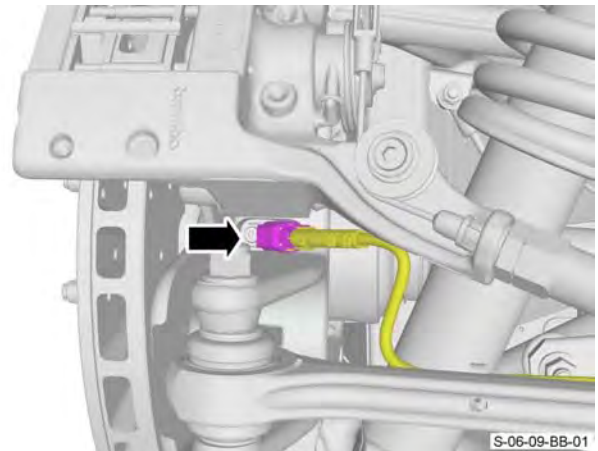
- Remove the nut that attaches the fuel filler neck to the body.



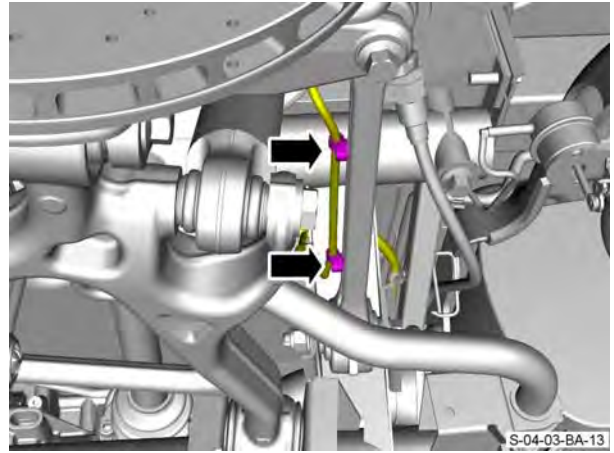
- Move the fuel filler neck away from the spring and shock absorber assembly.



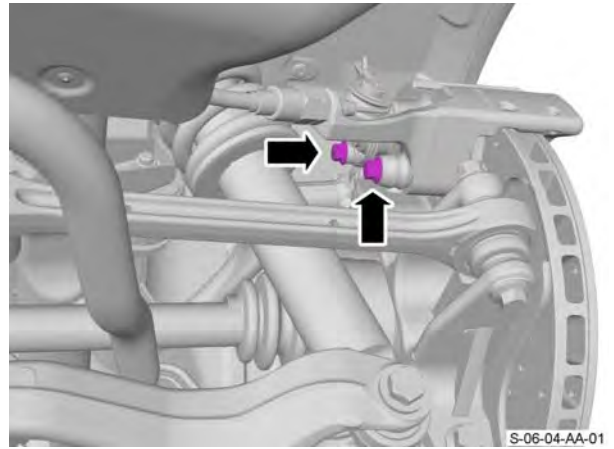
- Disconnect the electrical connector from the wheel speed sensor.




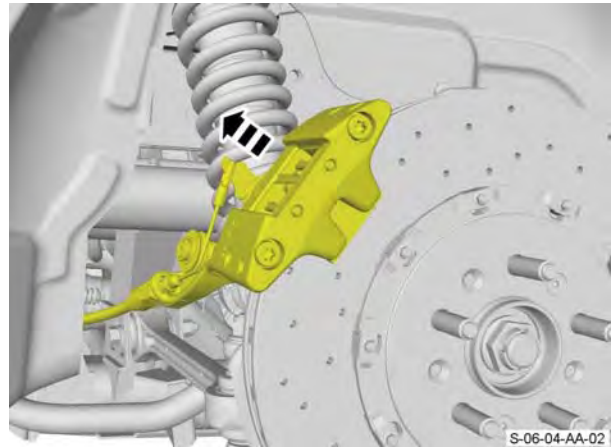
11. Release the two clips that attach the harness to the toe control arm.



12. Remove and discard the two bolts that attach the handbrake caliper to the rear knuckle.

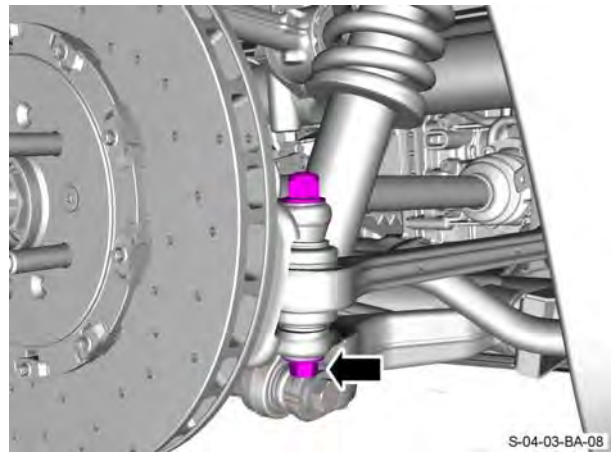


13.  **Caution: Do not use levers to release the handbrake caliper from the brake disc. It can damage the CCM of the disc.**
Release the handbrake caliper.

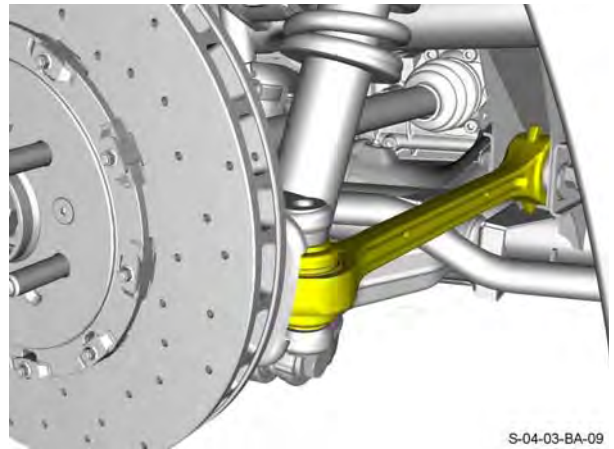


14. Use an applicable tie strap to hold the handbrake caliper.

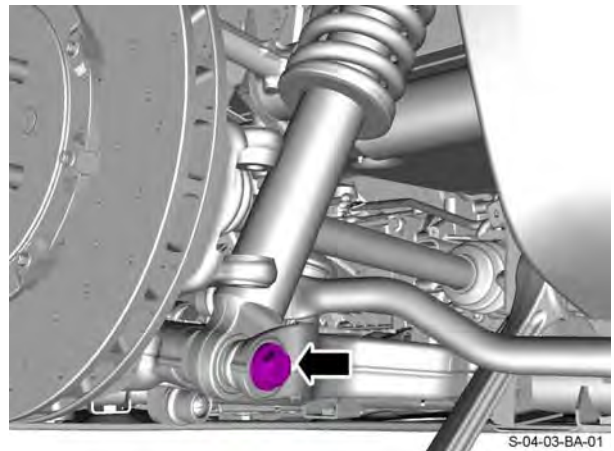
15. Remove the nut and the bolt that attach the toe control arm to the knuckle.



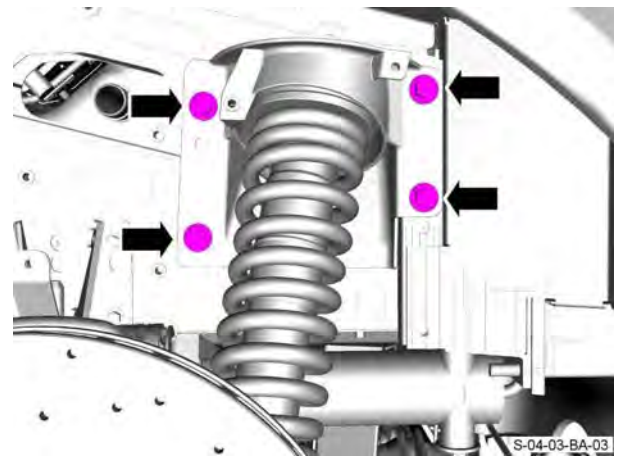
16. Move the toe control arm away from the knuckle.



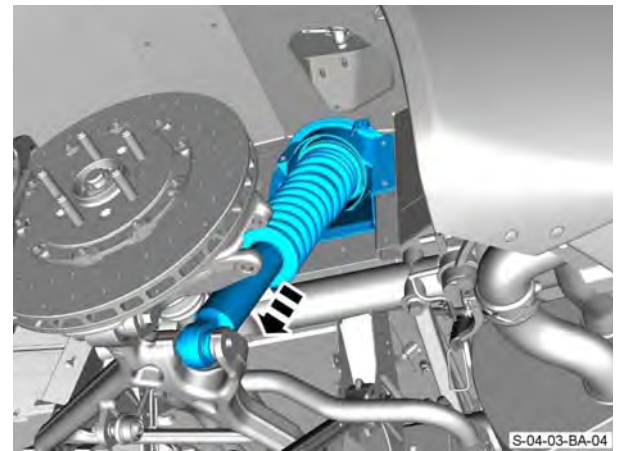
17. Remove the bolt that attaches the spring and damper assembly to the lower wishbone.



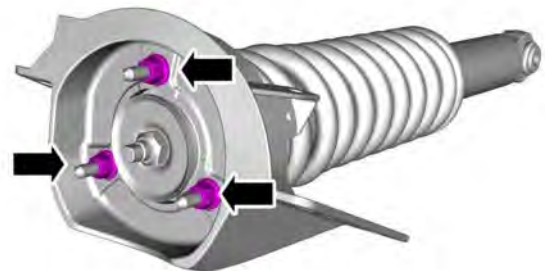
18. Remove the four bolts that attach the spring and damper mount plate to the body.



19. Remove the spring and damper assembly.



20. Remove the three nuts that attach the spring and damper assembly to the spring and damper assembly mounting plate.



21. Remove the spring and damper assembly mounting plate from the spring and damper assembly.



S-04-03-BA-07

22. Do steps 10 to 21 for the other side.

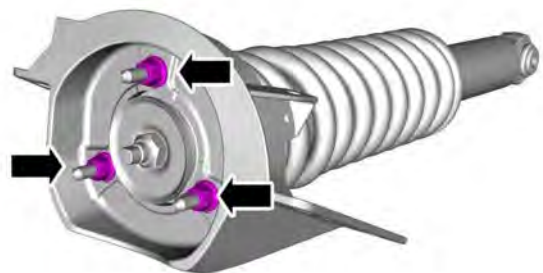
Install

1. Install the spring and damper assembly to the spring and damper assembly mounting plate.



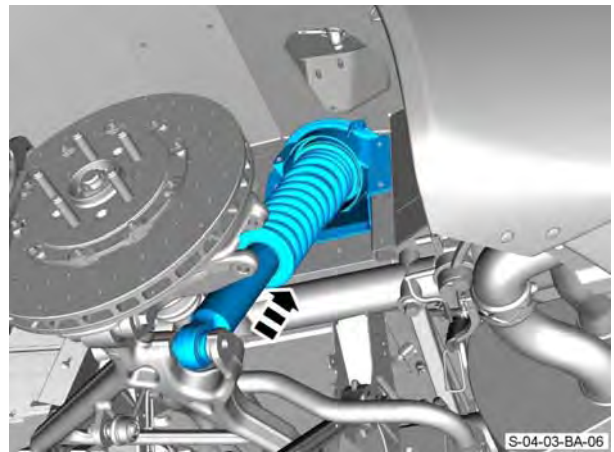
S-04-03-BA-07

2. Install and torque the three nuts that attach the spring and damper assembly to the spring and damper assembly mounting plate to 23 Nm.

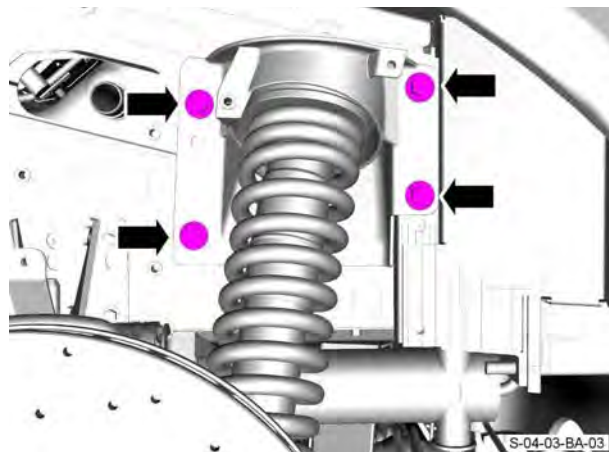


S-04-03-BA-05

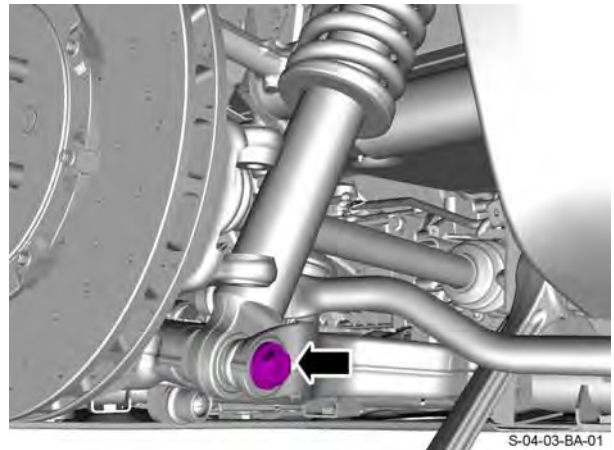
3. Install the spring and damper assembly.



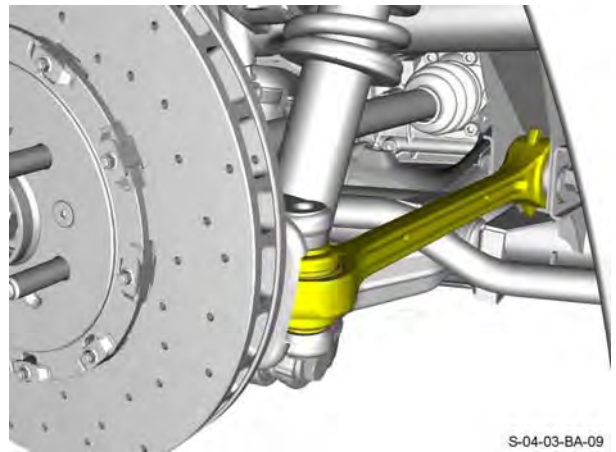
4. Install and torque the four bolts that attach the spring and damper assembly mounting plate to the body to 80 Nm.



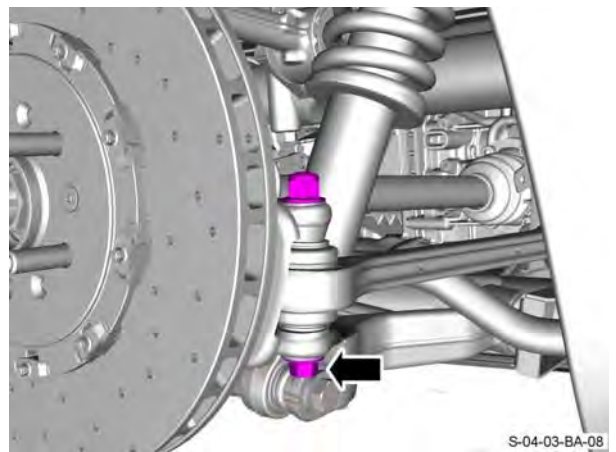
5. Install and torque the bolt that attaches the spring and damper assembly to the lower wishbone to 175 Nm.



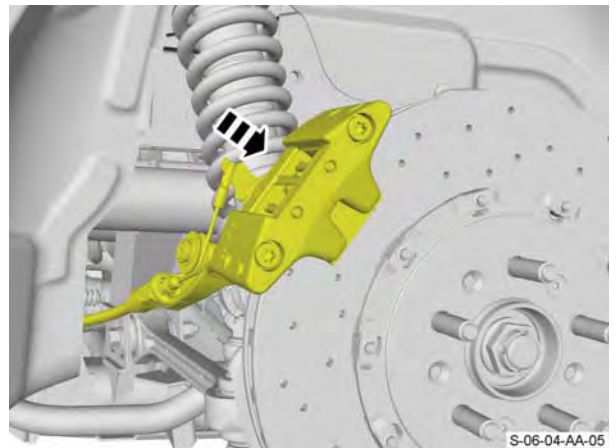
- Put the toe control arm into the correct position.




- Install and torque the nut and the bolt that attach the toe control arm to the knuckle to 115 Nm.

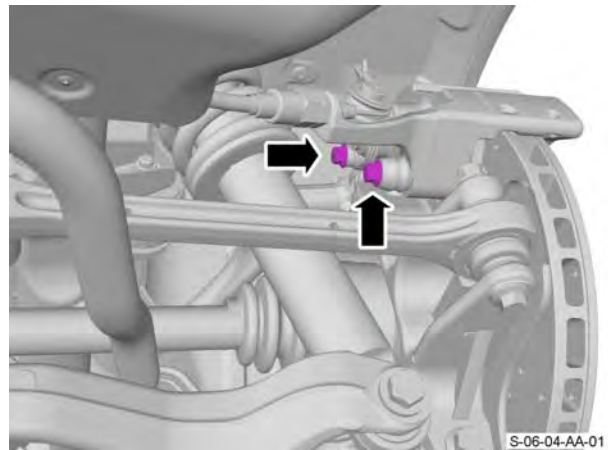


- Release the handbrake caliper.
- Put the handbrake caliper into position on the rear knuckle.

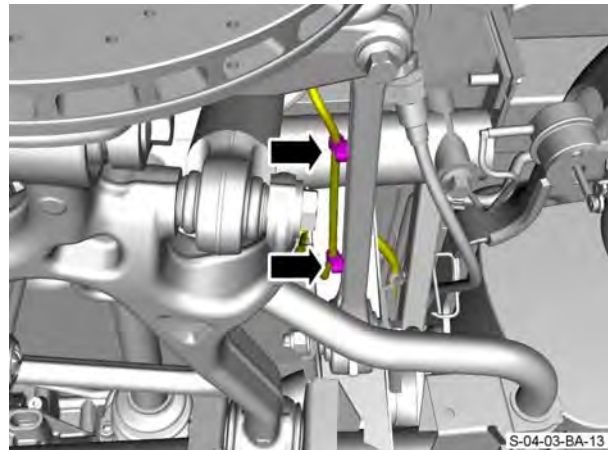


10.  **Caution: New bolts must be used during the installation of the handbrake caliper. If you do not use new bolts failure of the brake system can occur.**

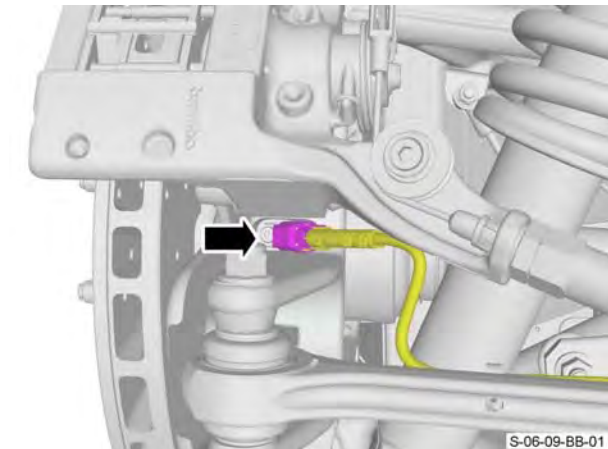
Install and torque the two new bolts that attach the handbrake caliper to the rear knuckle to 15 Nm, then 92 degrees more.



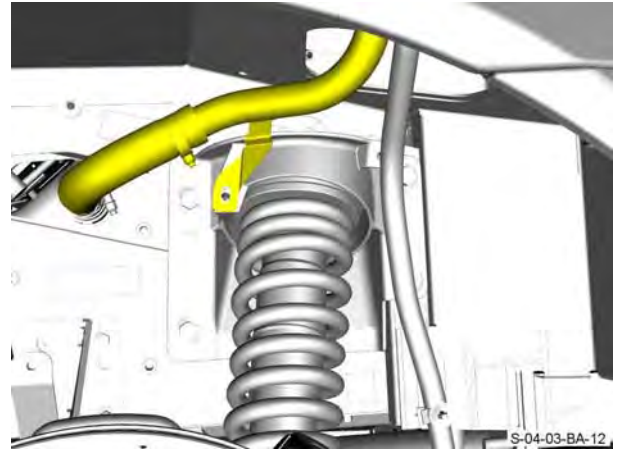
11. Install the two clips that attach the harness to the toe control arm.



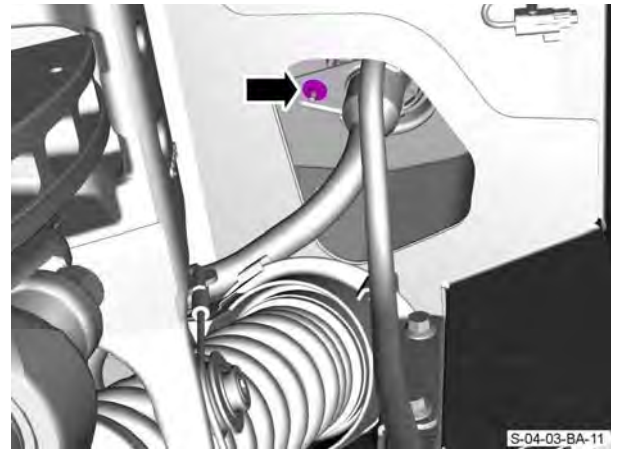
12. Connect the electrical connector to the wheel speed sensor.



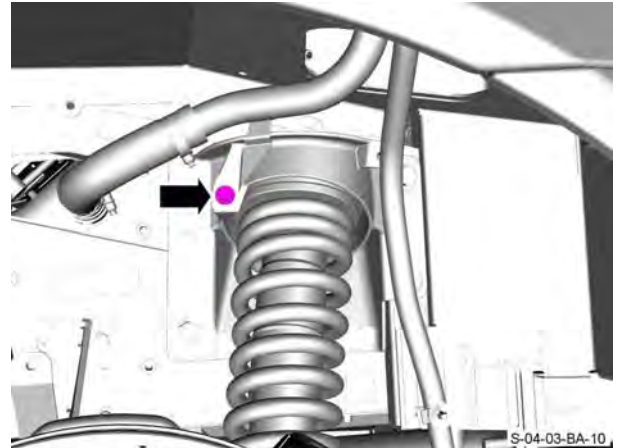
13. Put the fuel filler neck into the correct position.



14. Install and torque the nut that attaches the fuel filler neck to the body to 9 Nm.

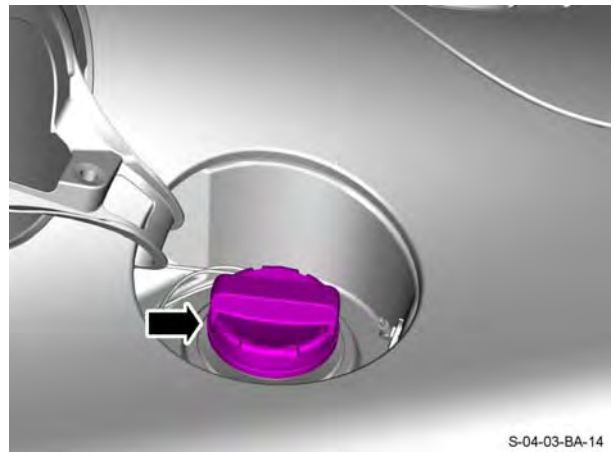


15. Install and torque the screw that attaches the fuel filler neck to the spring and damper assembly mounting plate to 9 Nm.



16. Do steps 1 to 12 and step 19 for the other side.
17. Install the rear right side wheel-arch liner (01.02.HB - Rear Right Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)
18. Install the rear left side wheel-arch liner (01.02.JB - Rear Left Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)
19. Install the rear wheels and tyres (04.04.ED - Wheels and Tyres - Two).
[\[Open Workshop Manual Procedure\]](#)

20. Install the fuel filler cap.



21. Close the fuel filler lid.

22. Do a check and adjust the four wheel alignment (04.00.AD - Check and Adjust the Four Wheel Alignment).


[\[Open Workshop Manual Procedure\]](#)


Published date: 2011-06-01 Procedure last changed: 2015-06-25 16:39:17

Small Normal Large


06.03.AB Right Side Front Brake Caliper (Remove and Install New Part)


 WSM Data


 Included Procedures


 Is Used In


Removal


-  **Warning: Brake fluid is poisonous. Do not drink the brake-fluid or let it touch your skin or eyes. If you get brake-fluid in your mouth, get medical aid immediately. Flush all brake-fluid from your eyes or skin with water and get medical aid.**


 **Warning: Do not use compressed air to remove brake pad dust. The dust can be dangerous. Always use a vacuum brush or the recommended brake cleaner to remove brake pad dust.**


 **Warning: Always use the correct brake pads that are supplied by Aston Martin. If you do not use the correct brake pads, it is possible that the brakes may not operate correctly and can fail.**


 **Warning: Brake pad dust can be harmful if you breathe it in or get it in your eyes. Always use face and eye protection when you clean the brake components.**

 **Warning: Do not soak or put the brake discs or pads fully into solvent cleaner. If you do, it is possible that they may not operate correctly and can fail.**

 **Caution: Do not use levers or screwdrivers to retract the pistons into the brake caliper. If you do, you can slip and cause damage to the disc.**

 **Caution: Do not use levers in the vent canals of the disc. It may damage the Carbon Ceramic Matrix (CCM) of the disc.**

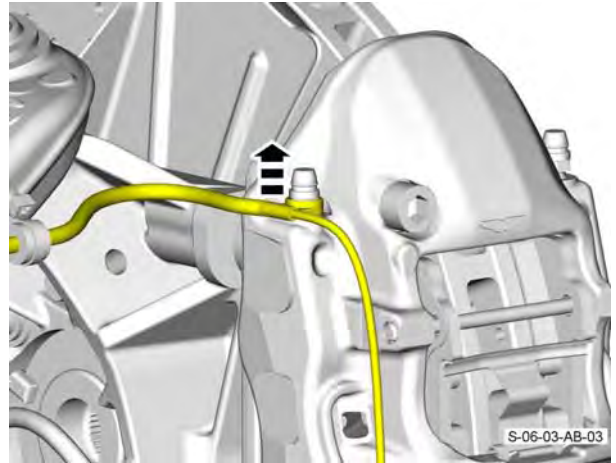
 **Caution: Do not let brake-fluid touch the vehicle paint work. If you do the paintwork can be damaged. Flush all spilled brake-fluid from the paintwork with water.**

 **Caution: Do not use water, cleaning liquids or trichloroethylene to clean the discs or the pads. If you do, it may damage them. Use only the recommended solvents to clean the discs and pads.**

- Remove the wheel and tyre (04.04.EC - Wheel and Tyre).

[\[Open Workshop Manual Procedure\]](#)

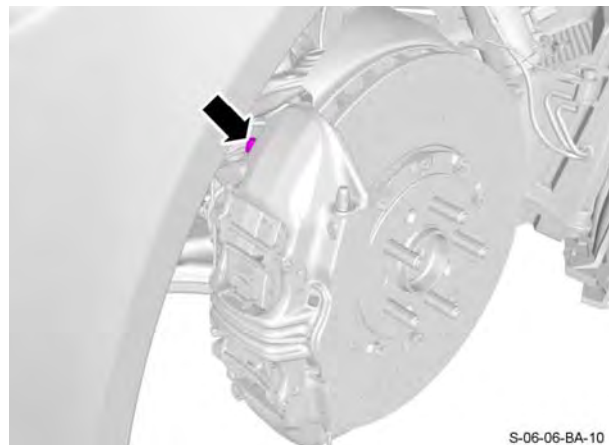
3. Release the pad wear lead harness from the inner bleed nipple.



4. Remove the inner and outer bleed nipple dust caps on the front right side brake caliper.



5. Install a bleed container and connect a bleed hose to the inner bleed nipple on the front right side brake caliper.
6. Open the inner bleed nipple on the front right side brake caliper.



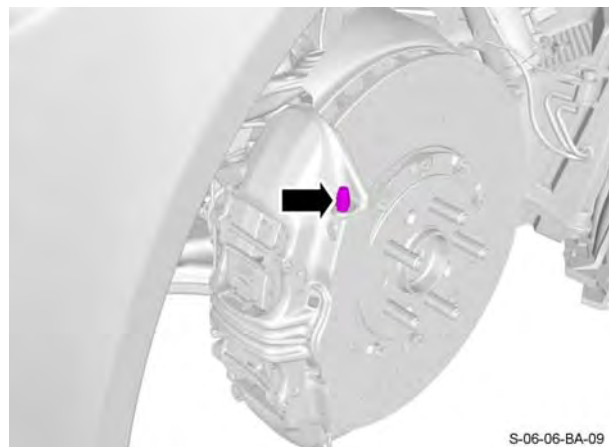
7. Install a bleed container and connect a bleed hose to the outer bleed nipple on the front right side brake caliper.

8. Open the outer bleed nipple on the front right side brake caliper.



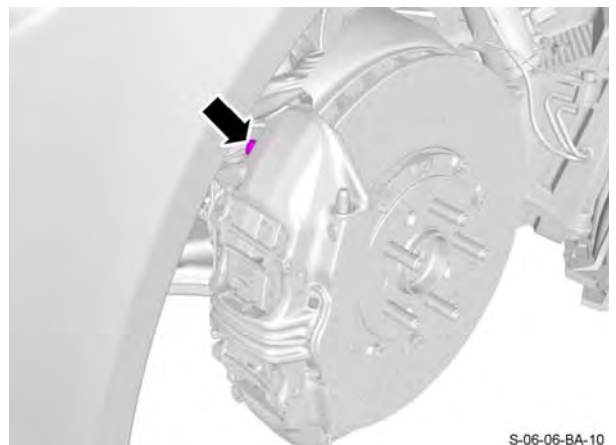
S-06-06-BA-09

9. Press the brake pedal down more than 60 mm and use an applicable device to hold the pedal.
10. Close the outer bleed nipple on the front right side brake caliper.



S-06-06-BA-09

11. Disconnect the bleed hose and move the bleed container.
12. Close the inner bleed nipple on the front right side brake caliper.



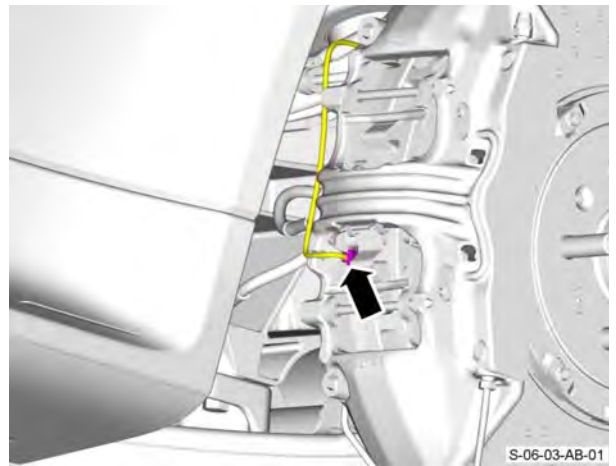
S-06-06-BA-10


13. Disconnect the bleed hose and move the bleed container.

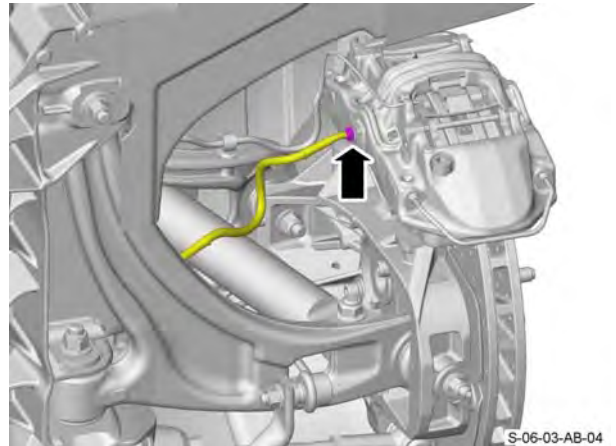
14. Install the inner and outer bleed nipple dust caps on the front right side brake caliper.



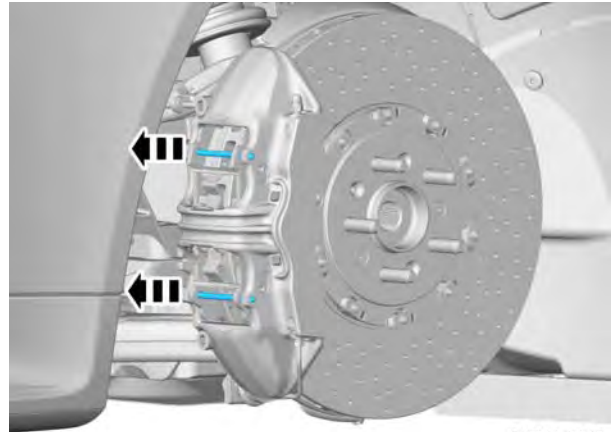
15. Disconnect the pad wear lead from the brake pad.



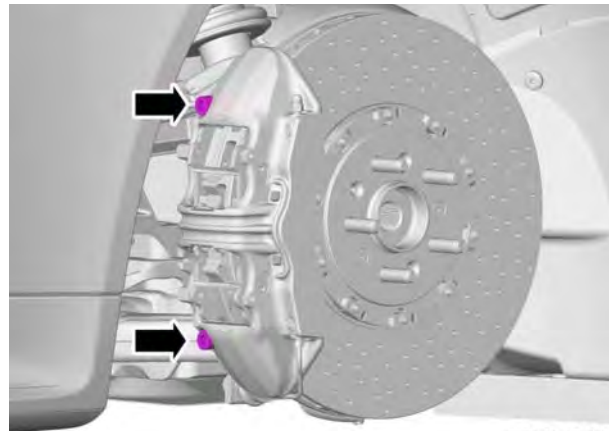
16.  *Note: Install applicable caps to seal the open ports.*
Undo the union that attaches the brake hose to the brake caliper.




17. Remove the two pins that attach the brake pads to the brake caliper.

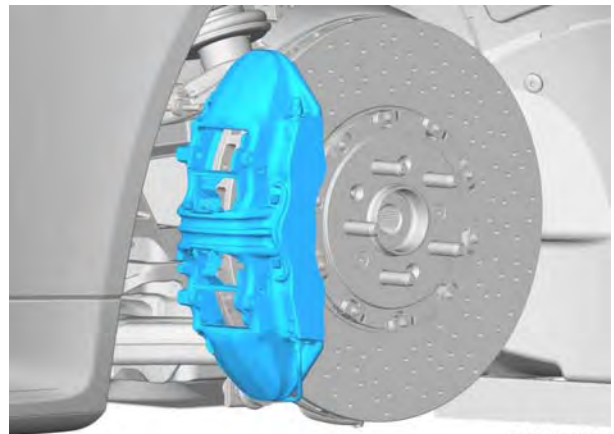



18. Remove and discard the two bolts that attach the brake caliper to the adapter bracket.



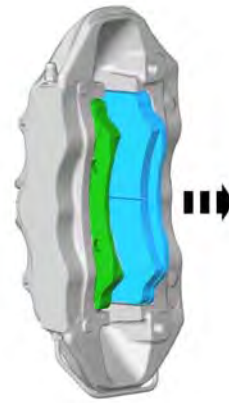
19.  **Caution: Do not use levers to release the brake caliper from the brake disc. This can cause damage to the Carbon Ceramic Matrix (CCM) of the disc. Note: The right side is shown, the left side is the same.**

Release the brake caliper from the brake disc.




20.  *Note: The brake caliper is shown removed for visual aid.*

Remove the two brake pads from the brake caliper.





S-06-03-AB-08

Install

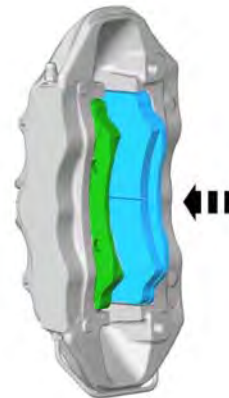
1.  **Caution: Do not let the brake-fluid level go above the "MAX" level-indicator on the brake-fluid reservoir. This will help to prevent damage to the vehicle.**

Retract the pistons in the brake caliper.

2. Use an approved solvent clean the brake pads and pins.
3.  *Note: Examine the brake pads for wear and /or damage. Replace if necessary.*

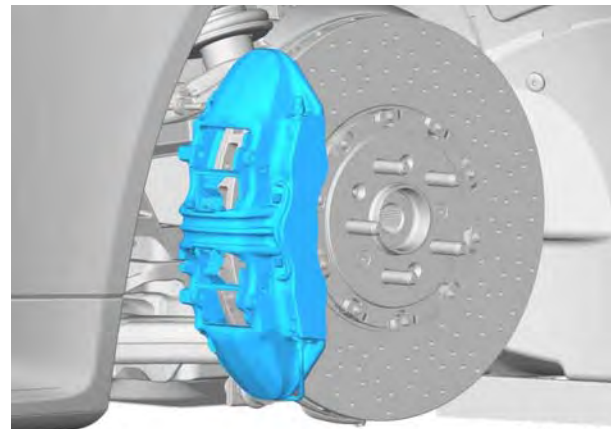
 *Note: The brake caliper is shown removed for visual aid.*

Install the brake pads into the brake caliper.




S-06-03-AB-11

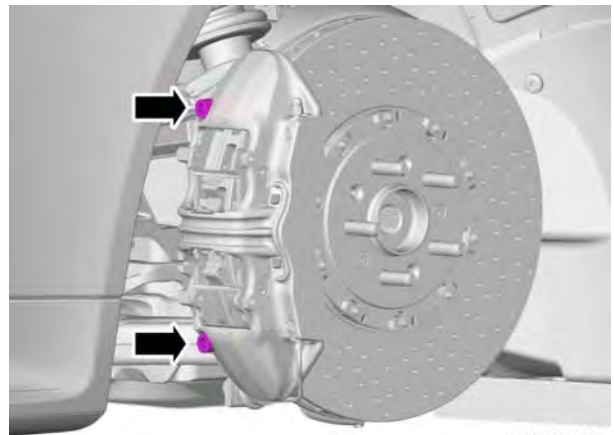
4. Install the brake caliper.



S-06-03-AB-07

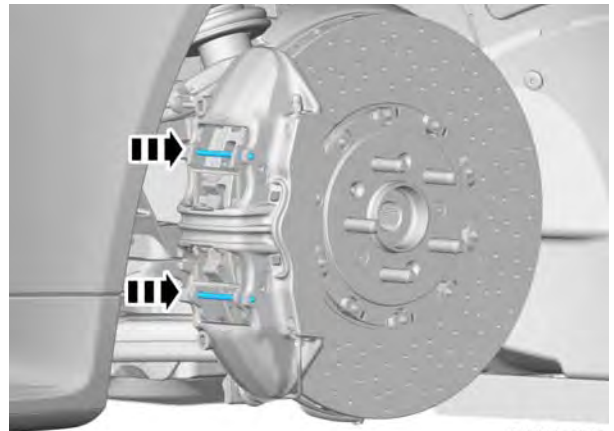
5.  **Caution: Use new bolts to attach the brake caliper to the adapter plate. If you do not use new bolts failure of the brake system can occur.**

Install and torque the two bolts that attach the brake caliper to the adapter bracket to 30 Nm, then 80 degrees more.




S-06-03-AB-06

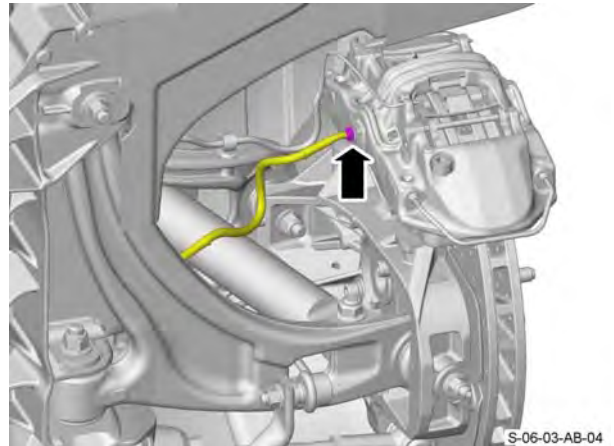
6. Fully install the two pins that attach the brake pads to the brake caliper.



S-06-03-AB-10

7.  **Note: Remove and discard the caps.**

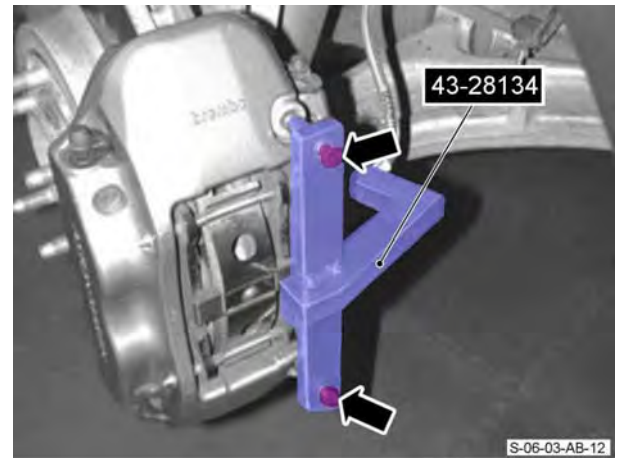
Loosely install the brake hose into the brake caliper.



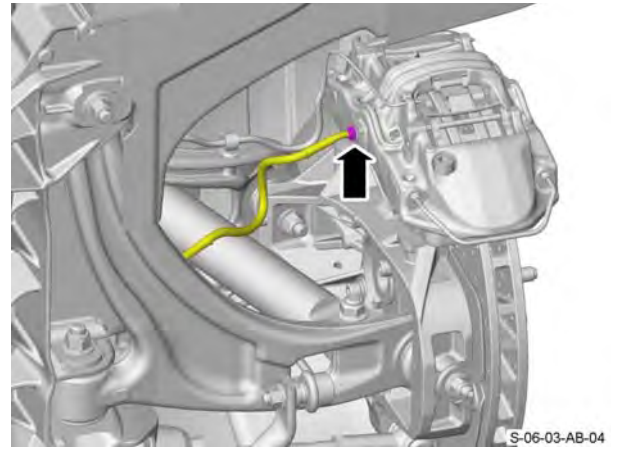
S-06-03-AB-04

8. Make sure that the alignment line for the brake hose is straight. Adjust the brake hose if necessary.

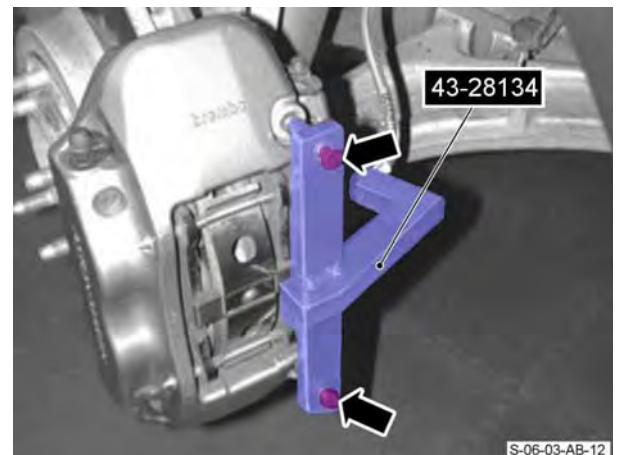
9. Install the special tool.



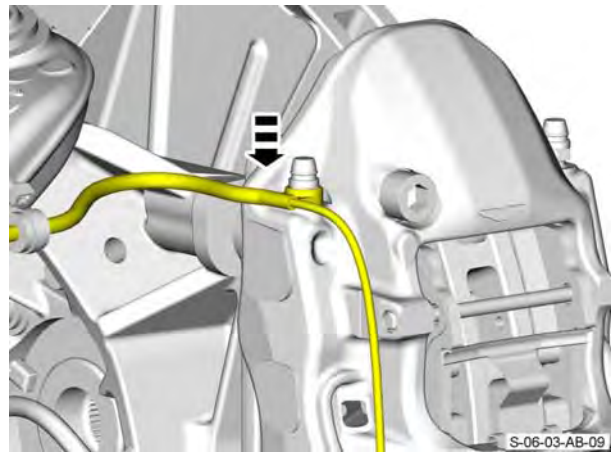
10. Use the special tool to align the brake hose and torque the union to 22 Nm.



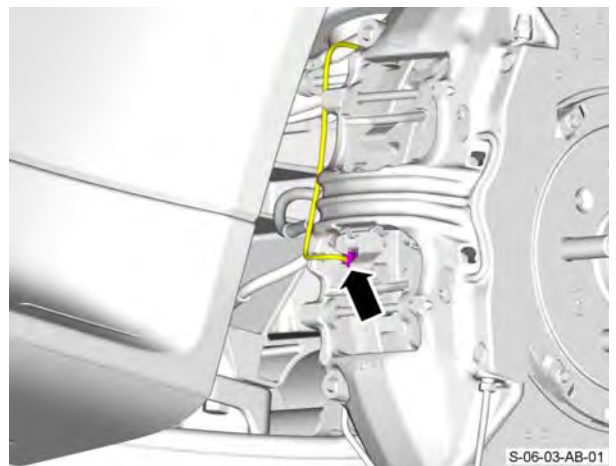
11. Do a check of the brake hose alignment again. If the brake hose is not correctly aligned, loosen the union and adjust the brake hose. Tighten the union to 22 Nm.
12. Remove the special tool.



13. Install the pad wear lead harness to the inner bleed nipple.



14. Connect the pad wear lead into the brake pad.




15. Remove the brake pedal prop.
16. Fill and bleed the hydraulic brake system (06.07.DD - Brake Bleed - With AMDS).
[\[Open Workshop Manual Procedure\]](#)

Published date: 2011-05-03 Procedure last changed: 2015-06-25 16:39:17

Small Normal Large


06.03.AC Left Side Front Brake Caliper (Remove and Install New Part)


 WSM Data


 Included Procedures


 Is Used In


Removal


-  **Warning: Brake fluid is poisonous. Do not drink the brake-fluid or let it touch your skin or eyes. If you get brake-fluid in your mouth, get medical aid immediately. Flush all brake-fluid from your eyes or skin with water and get medical aid.**


 **Warning: Do not use compressed air to remove brake pad dust. The dust can be dangerous. Always use a vacuum brush or the recommended brake cleaner to remove brake pad dust.**


 **Warning: Always use the correct brake pads that are supplied by Aston Martin. If you do not use the correct brake pads, it is possible that the brakes may not operate correctly and can fail.**


 **Warning: Brake pad dust can be harmful if you breathe it in or get it in your eyes. Always use face and eye protection when you clean the brake components.**

 **Warning: Do not soak or put the brake discs or pads fully into solvent cleaner. If you do, it is possible that they may not operate correctly and can fail.**

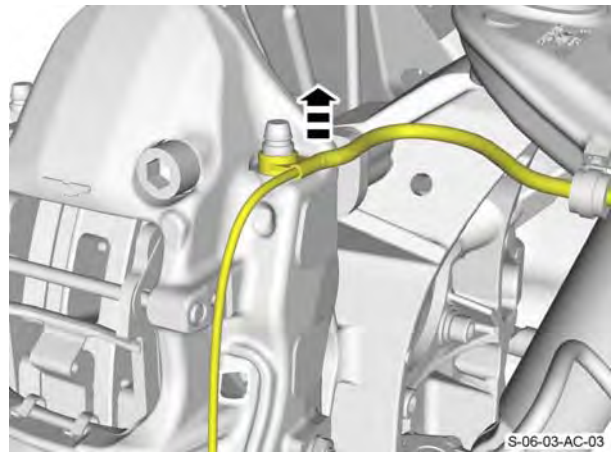
 **Caution: Do not use levers or screwdrivers to retract the pistons into the brake caliper. If you do, you can slip and cause damage to the disc.**

 **Caution: Do not use levers in the vent canals of the disc. It may damage the Carbon Ceramic Matrix (CCM) of the disc.**

 **Caution: Do not let brake-fluid touch the vehicle paint work. If you do the paintwork can be damaged. Flush all spilled brake-fluid from the paintwork with water.**

 **Caution: Do not use water, cleaning liquids or trichloroethylene to clean the discs or the pads. If you do, it may damage them. Use only the recommended solvents to clean the discs and pads.**
- Remove the wheel and tyre (04.04.EC - Wheel and Tyre).
[\[Open Workshop Manual Procedure\]](#)

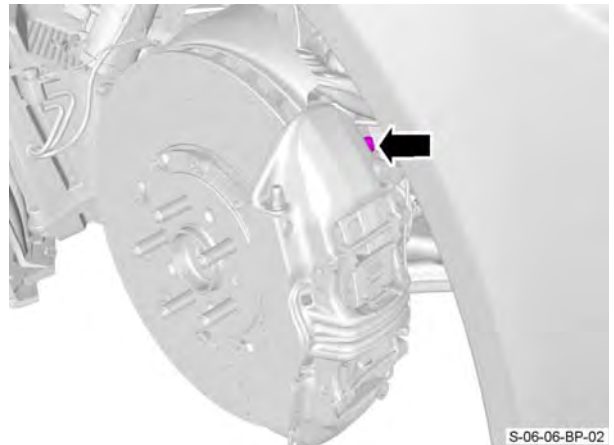
3. Release the pad wear lead harness from the inner bleed nipple.



4. Remove the inner and outer bleed nipple dust caps on the front left side brake caliper.

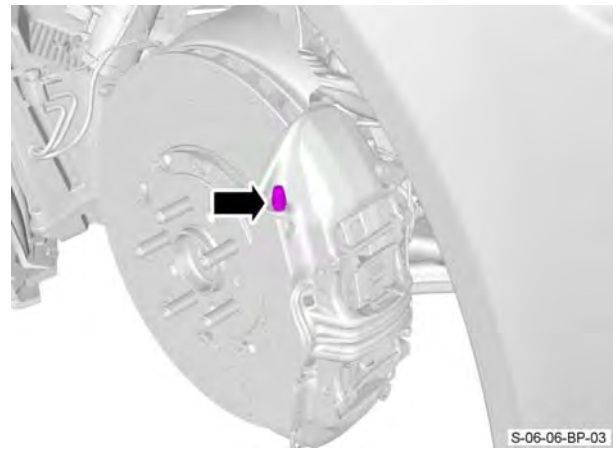


5. Install a bleed container and connect a bleed hose to the inner bleed nipple on the front left side brake caliper.
6. Open the inner bleed nipple on the front left side brake caliper.

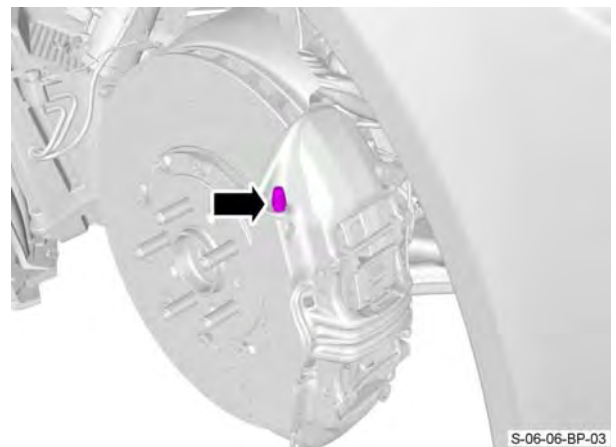


7. Install a bleed container and connect a bleed hose to the outer bleed nipple on the front left side brake caliper.

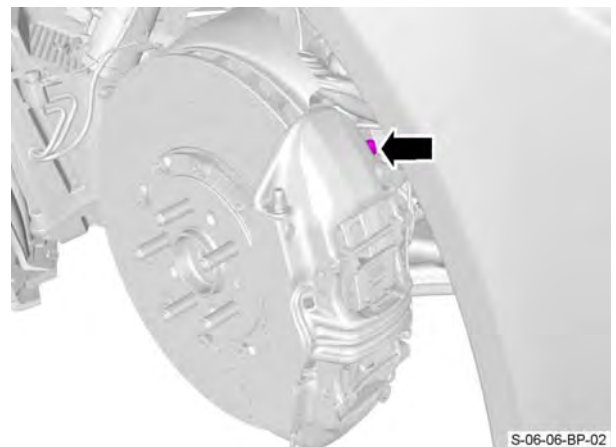
8. Open the outer bleed nipple on the front left side brake caliper.



9. Press the brake pedal down more than 60 mm and use an applicable device to hold the pedal.
10. Close the outer bleed nipple on the front left side brake caliper.



11. Disconnect the bleed hose and move the bleed container.
12. Close the inner bleed nipple on the front left side brake caliper.

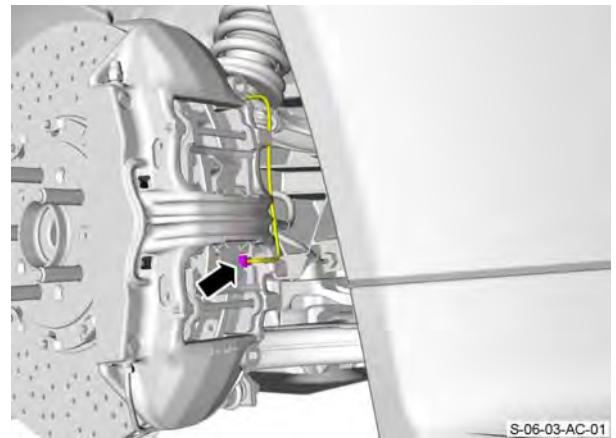



13. Disconnect the bleed hose and move the bleed container.

14. Install the inner and outer bleed nipple dust caps on the front left side brake caliper.

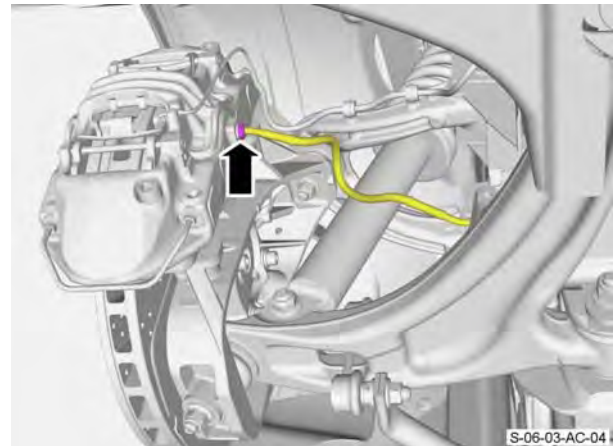


15. Disconnect the pad wear lead from the brake pad.

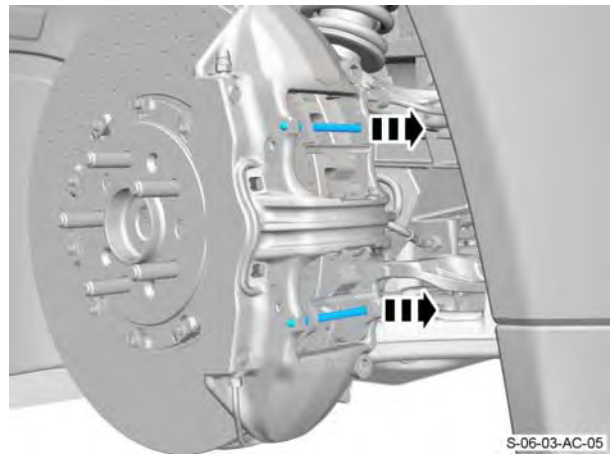


16.  *Note: Install applicable caps to seal the open ports.*

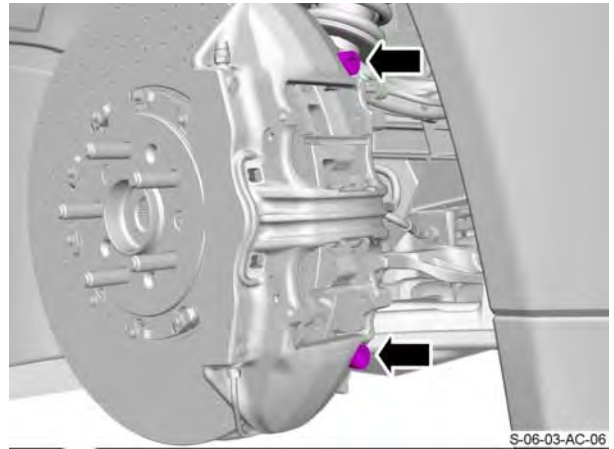
Undo the union that attaches the brake hose to the brake caliper.



17. Remove the two pins that attach the brake pads to the brake caliper.

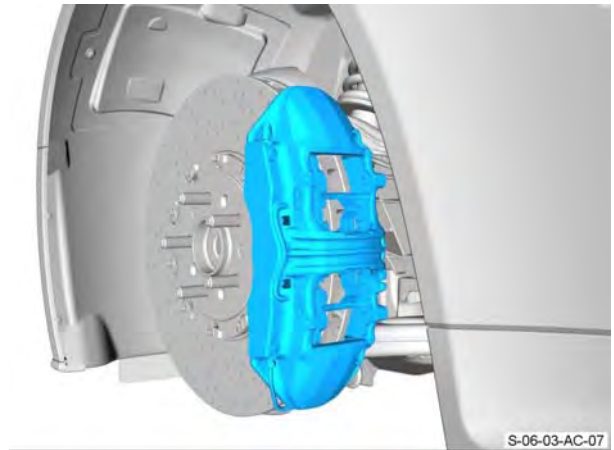



18. Remove and discard the two bolts that attach the brake caliper to the adapter bracket.



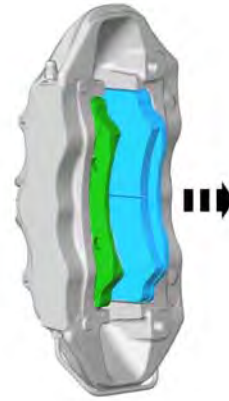
19.  **Caution: Do not use levers to release the brake caliper from the brake disc. It may damage the CCM of the disc.**

Caution: Do not use levers to release the brake caliper from the brake disc. This can cause damage to the CCM of the disc.




20.  *Note: The brake caliper is shown removed for visual aid.*

Remove the two brake pads from the brake caliper.




S-06-03-AB-08


Install

1.  **Caution: Do not let the brake-fluid level go above the "MAX" level-indicator on the brake-fluid reservoir. This will help to prevent damage to the vehicle.**

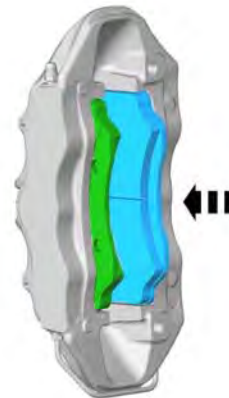
Retract the pistons in the brake caliper.

2. Use an approved solvent to clean the brake pads and pins.

3.  *Note: Examine the brake pads for wear and/or damage. Replace if necessary.*

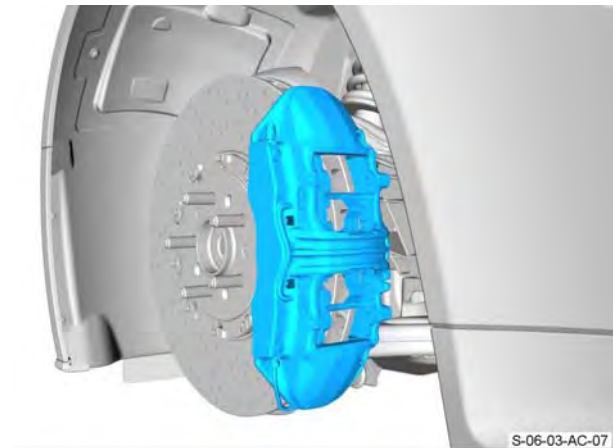
-  *Note: The brake caliper is shown removed for visual aid.*

Install the brake pads into the brake caliper.




S-06-03-AB-11

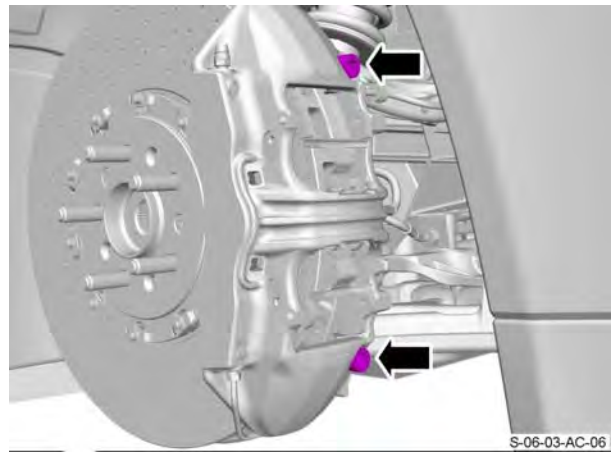
4. Install the brake caliper.



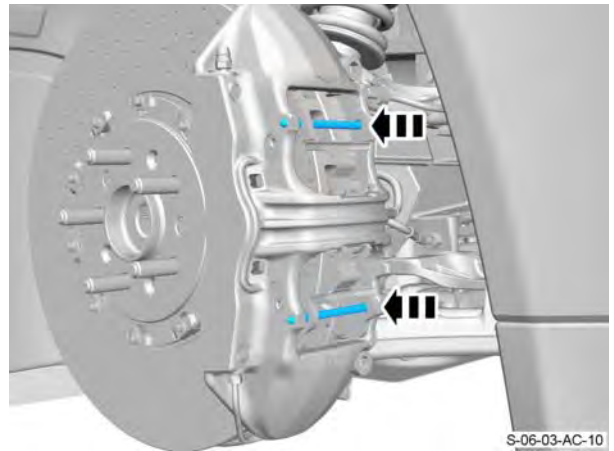
S-06-03-AC-07


5.  **Caution: Use new bolts to attach the brake caliper to the adapter plate. If you do not use new bolts failure of the brake system can occur.**

Install and torque the two bolts that attach the brake caliper to the adapter bracket to 30 Nm, then 80 degrees more.

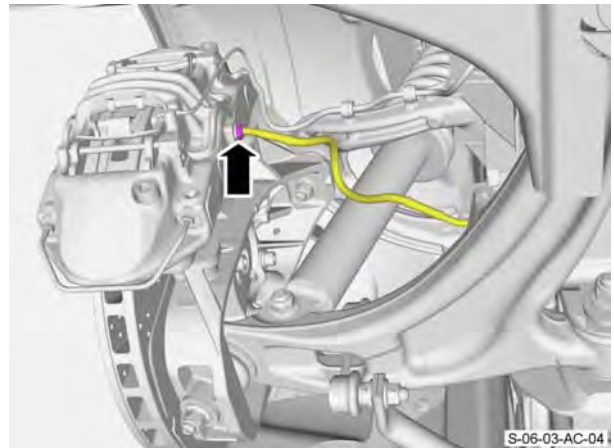


6. Fully install the two pins that attach the brake pads to the brake caliper.



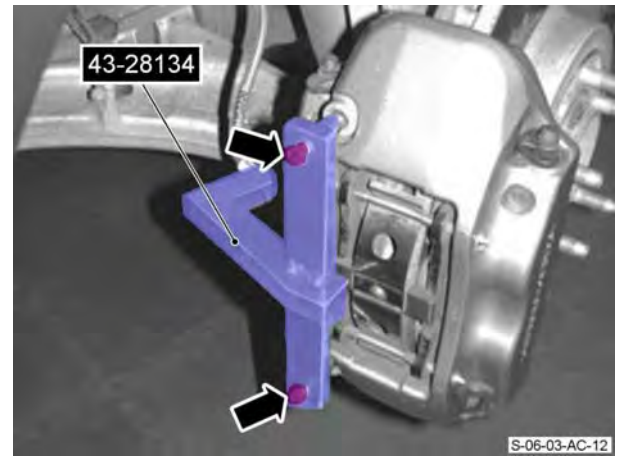
7.  **Note: Remove and discard the caps.**

Loosely install the brake hose into the brake caliper.

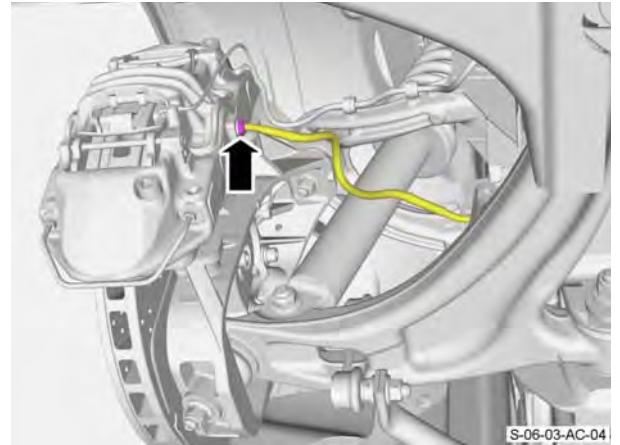


8. Make sure that the alignment line for the brake hose is straight. Adjust the brake hose if necessary.

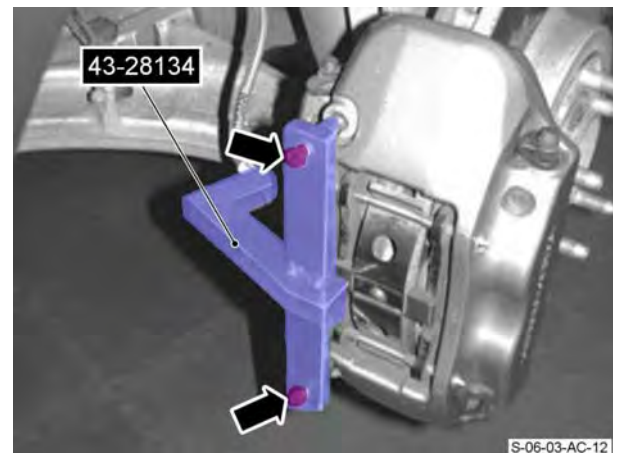
9. Install the special tool.



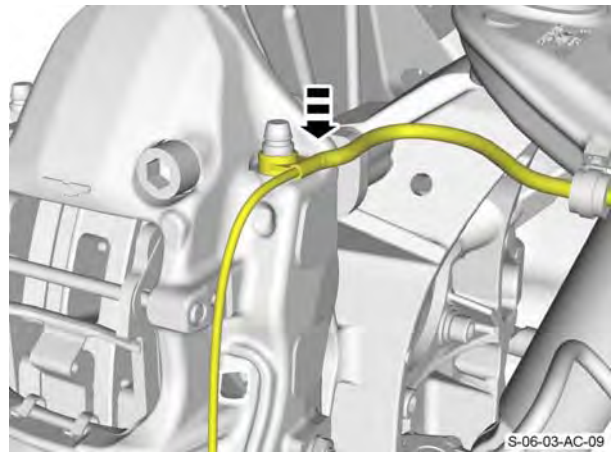
10. Use the special tool to align the brake hose and torque the union to 22 Nm.



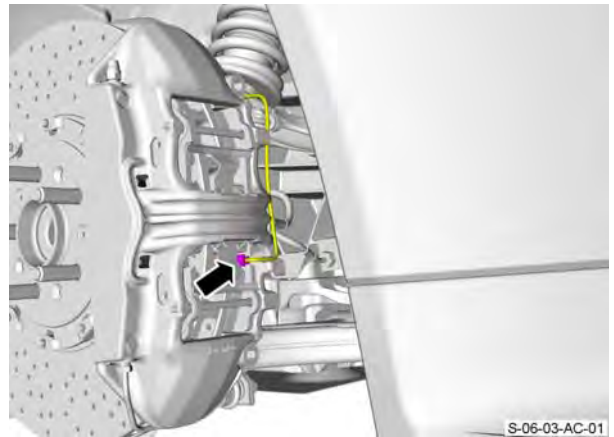
11. Do a check of the brake hose alignment again. If the brake hose is not correctly aligned, loosen the union and adjust the brake hose. Tighten the union to 22 Nm.
12. Remove the special tool.



13. Install the pad wear lead harness to the inner bleed nipple.






14. Connect the pad wear lead into the brake pad.



15. Remove the brake pedal prop.
16. Fill and bleed the hydraulic brake system (06.07.DD - Brake Bleed - With AMDS).
[\[Open Workshop Manual Procedure\]](#)

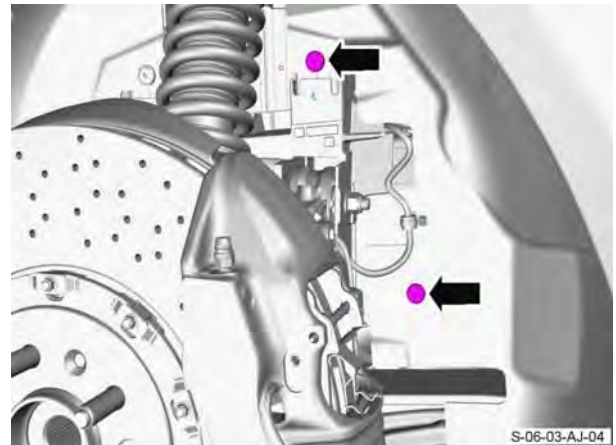
Published date: 2011-05-03 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****06.03.AJ Pad Wear Lead - Front Pair (Remove and Install New Part)**

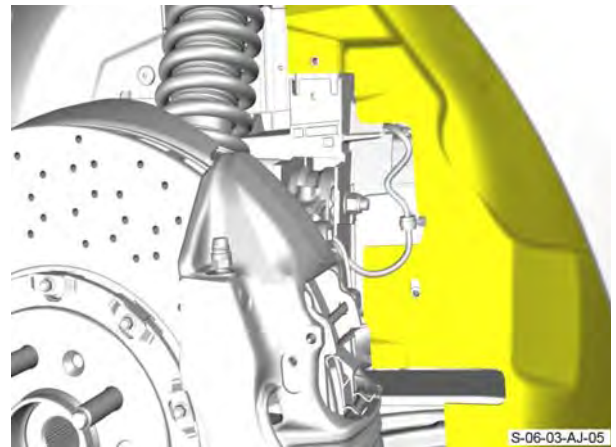
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

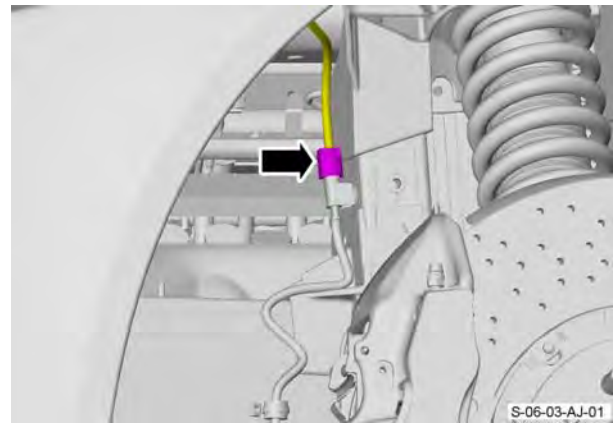
1. Remove the wheels and tyres (04.04.ED - Wheels and Tyres - Two).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the two Torx screws that attach the wheel-arch liner to the body.



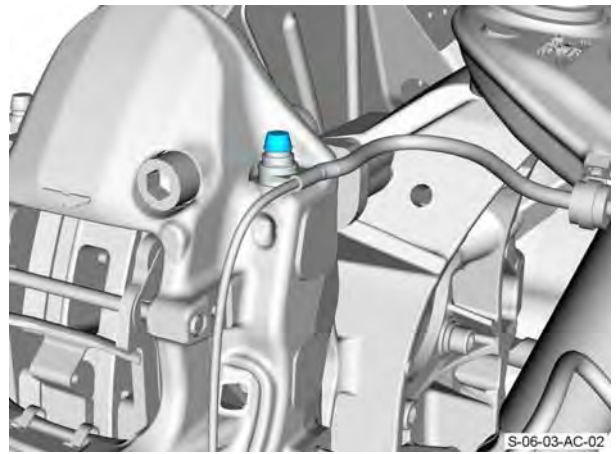
3. Move the wheel-arch liner to get access to the electrical connector for the pad wear lead.



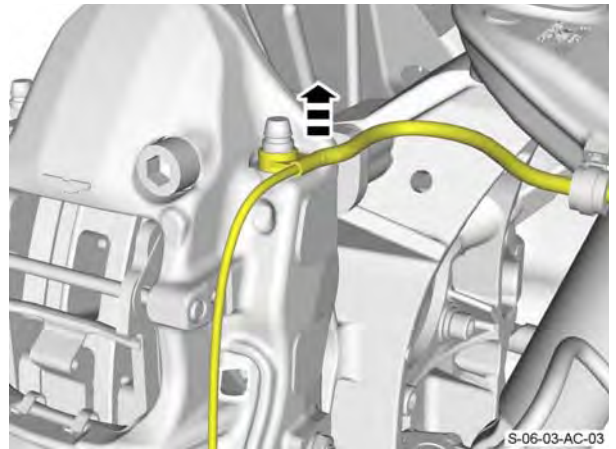
4. Disconnect the electrical connector for the pad wear lead.



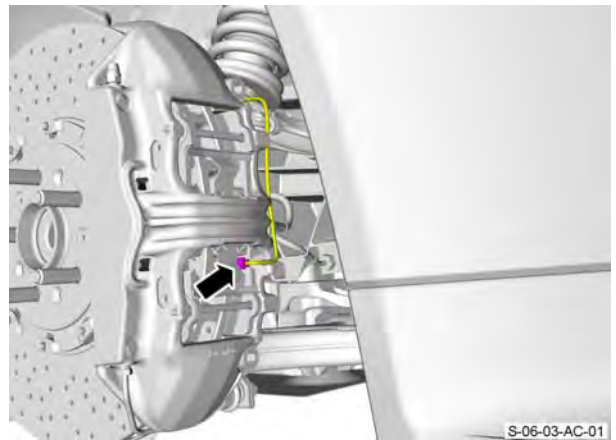
5. Remove the inner bleed nipple dust cover.



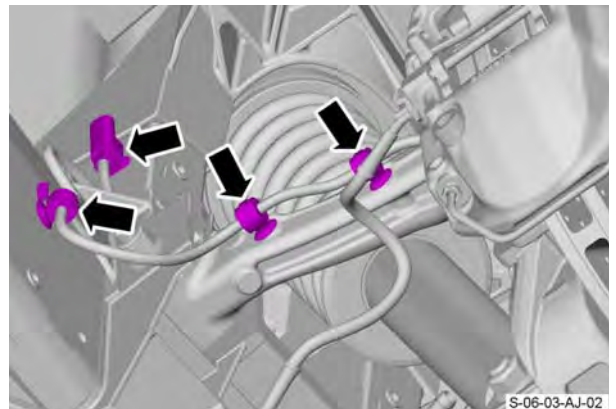
6. Release the pad wear lead from the inner bleed nipple.



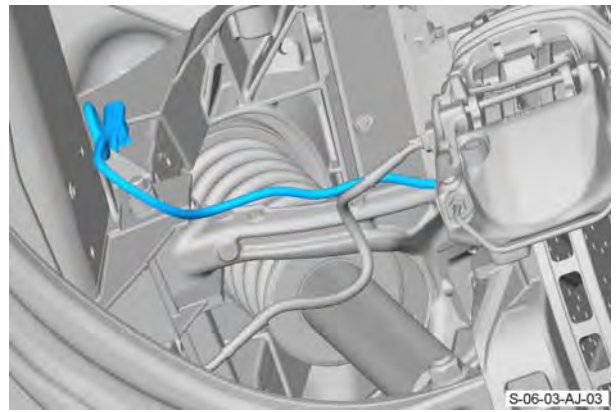
7. Disconnect the pad wear lead from the brake pad.



8. Release the four clips that attach the pad wear lead to the front subframe.



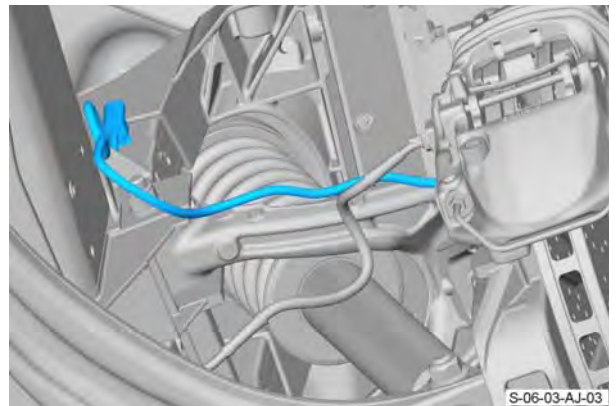
9. Remove the pad wear lead.



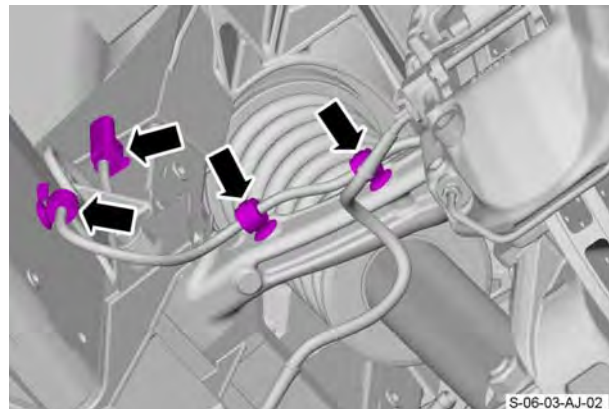
10. Do steps 2 to 9 for the other side.

Install

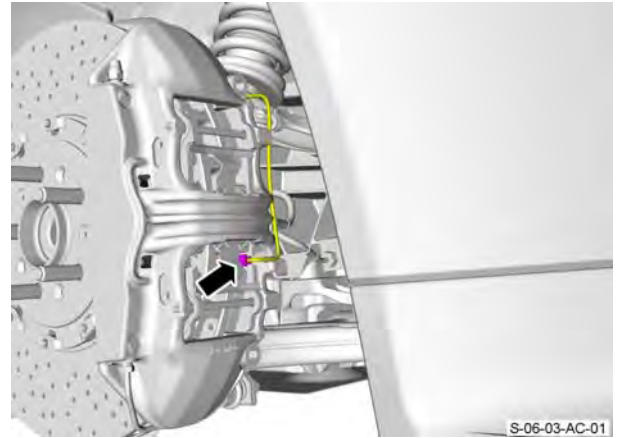
1. Install the pad wear lead.



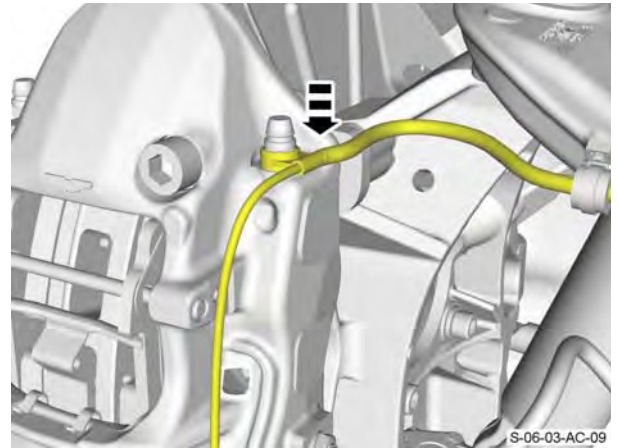
2. Install the four clips that attach the pad wear lead to the front subframe.



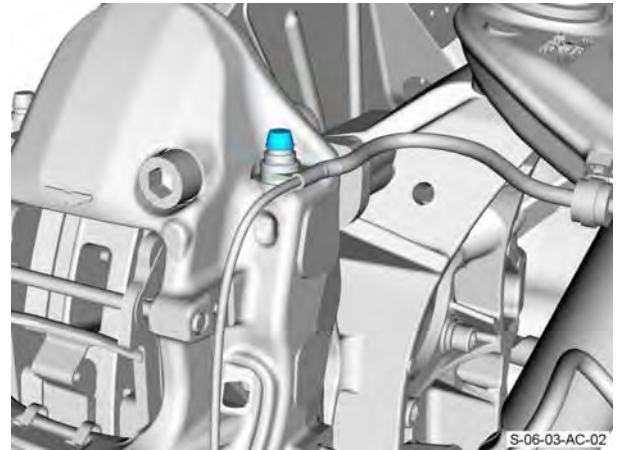
3. Connect the pad wear lead to the brake pad.



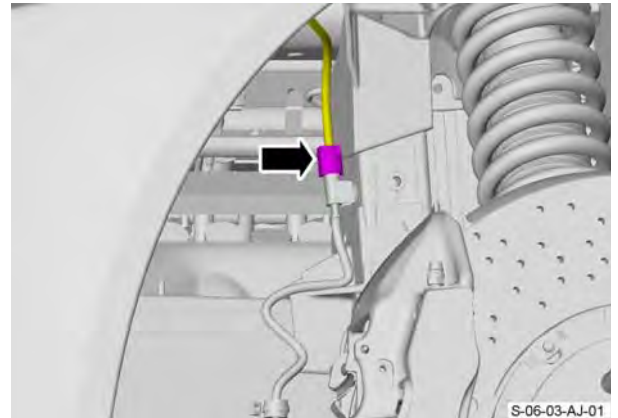
4. Install the pad wear lead to the inner bleed nipple.



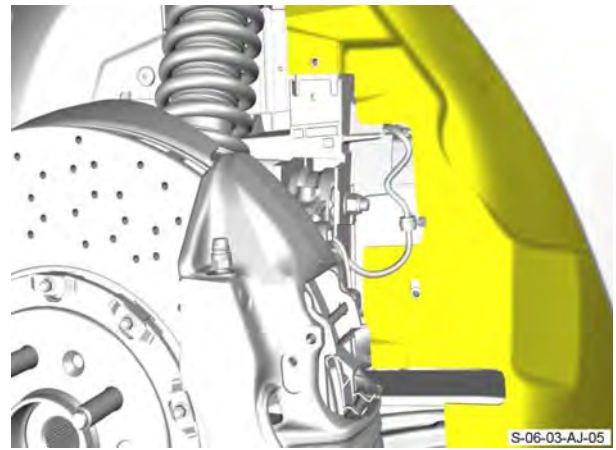
5. Install the inner bleed nipple dust cover.



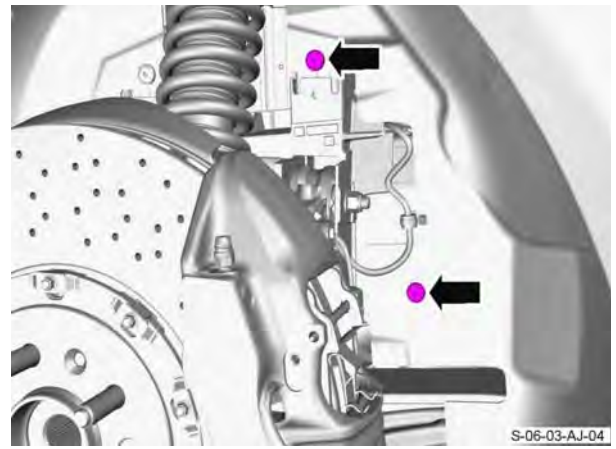
6. Connect the electrical connector for the pad wear lead.



- Put the wheel-arch liner into its correct position.






- Install and tighten the two Torx screws that attach the wheel-arch liner to the body.



- Do steps 1 to 8 for the other side.
- Install the wheels and tyres (04.04.ED - Wheels and Tyres - Two).
[\[Open Workshop Manual Procedure\]](#)

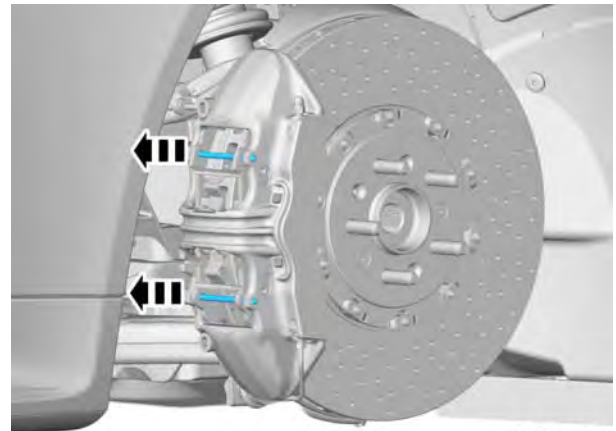
Published date: 2011-05-03 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****06.03.BA Front Brake Discs and Pads - Vehicle Set (Remove and Install New Part)**

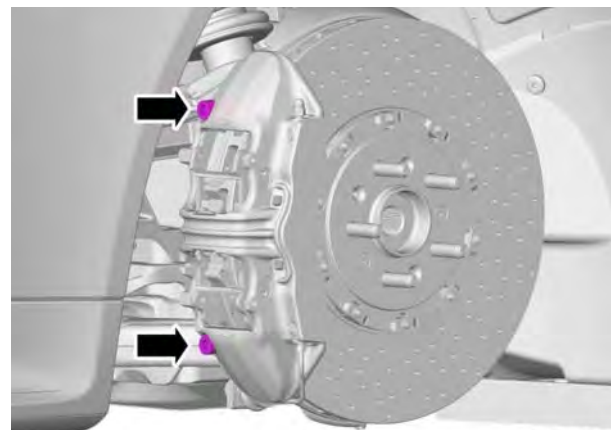
-  WSM Data
-  Included Procedures
-  Is Used In


Removal

1. Remove the front pad wear leads (06.03.AJ - Pad Wear Lead - Front Pair).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the two pins that attach the brake pads to the brake caliper.

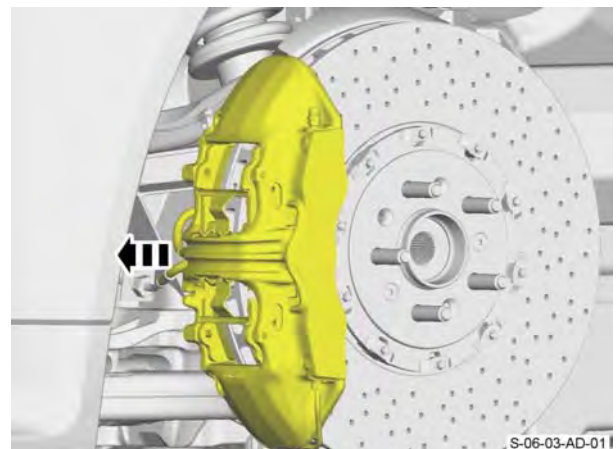



3. Remove and discard the two bolts that attach the brake caliper to the adapter bracket.




4.  **Caution: Do not use levers to release the brake caliper from the brake disc. This can cause damage to the CCM of the disc.**

Remove the brake caliper.

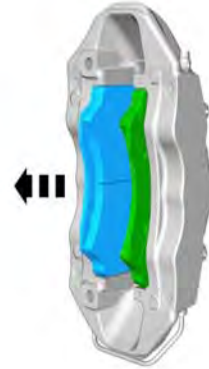


5.  **Caution: Make sure that the brake caliper does not hang on the brake hose. This will help to prevent damage to the brake hose.**

Use an applicable tie strap to hold the brake caliper.

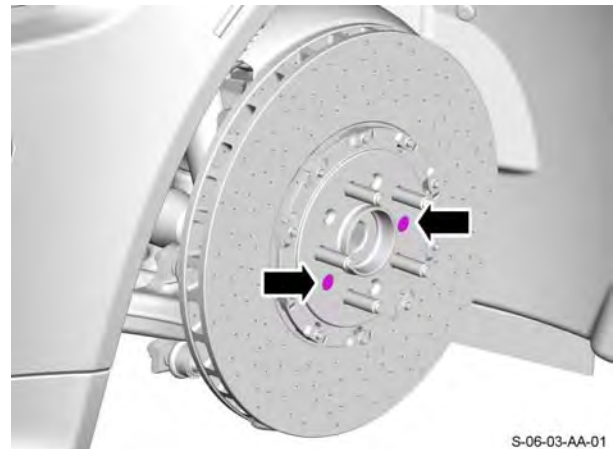
6.  **Note: Examine the pads for wear and /or damage. Replace if necessary.**

Remove the brake pads from the brake caliper.




S-06-03-AC-08

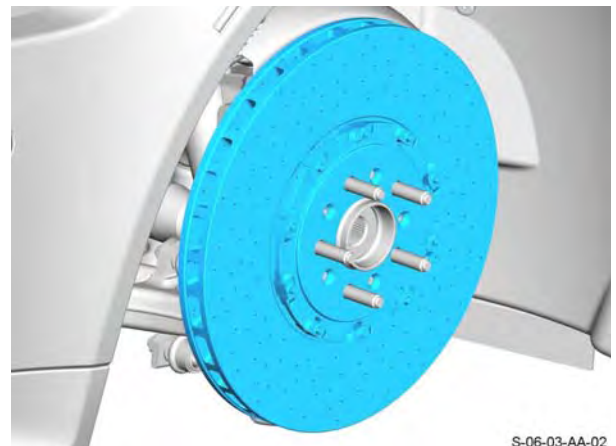
7. Remove the two screws that attach the brake disc to the hub.



S-06-03-AA-01

8.  **Caution: Do not use a hammer or similar tool to remove the brake discs. If you do the disc can be damaged.**

Remove the brake disc.

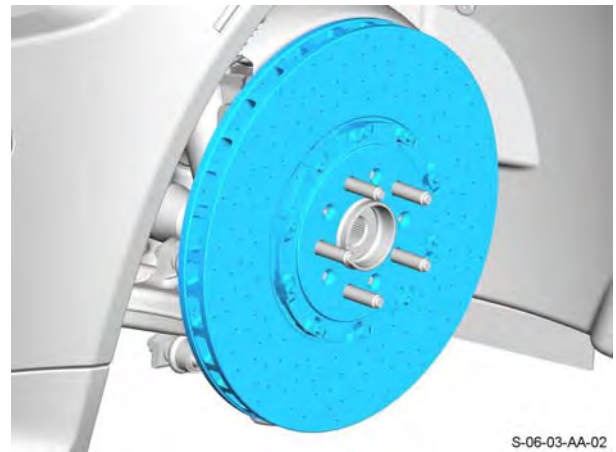


S-06-03-AA-02

9. Do steps 2 to 9 for the other brake disc.

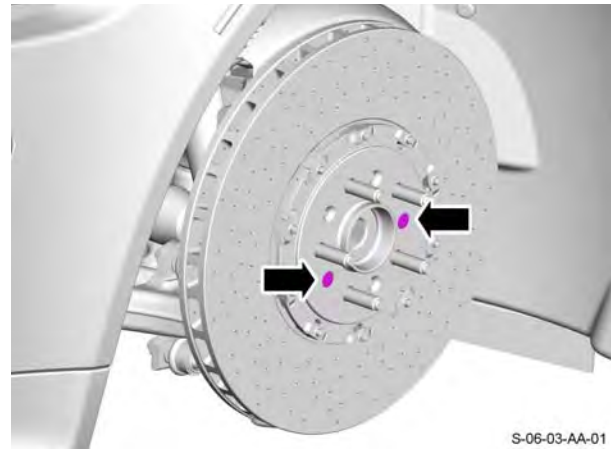
Install

1. Install the brake disc.




S-06-03-AA-02

2. Install and torque the two screws that attach the brake disc to the hub to 11 Nm.




S-06-03-AA-01

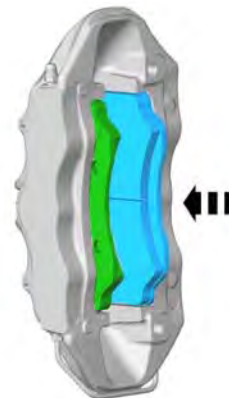
3.  **Caution: Do not let the brake-fluid level go above the "MAX" level-indicator on the brake-fluid reservoir. This will help to prevent damage to the vehicle.**

Retract the pistons in the brake caliper.

4. Use an approved solvent to clean the brake pads and pins.

5.  *Note: The brake caliper is shown removed for visual aid.*

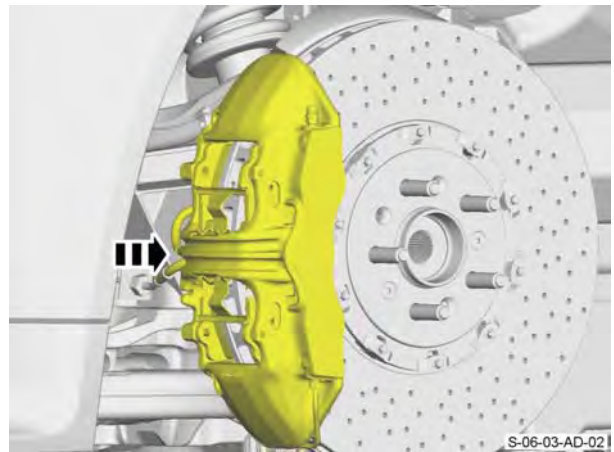
Install the brake pads into the brake caliper.



S-06-03-AB-11

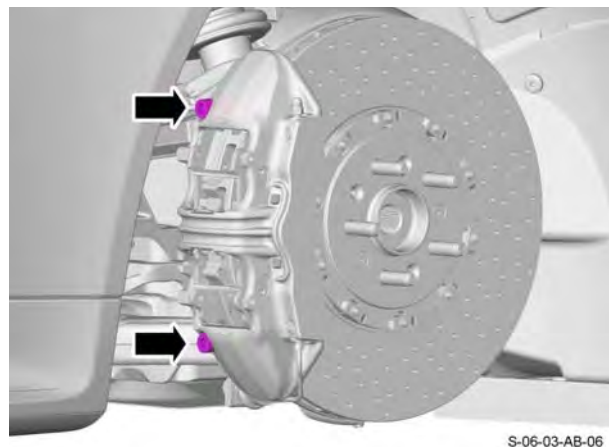
6. Remove and discard the tie strap that holds the brake caliper.

7. Put the brake caliper into position on the adapter bracket.

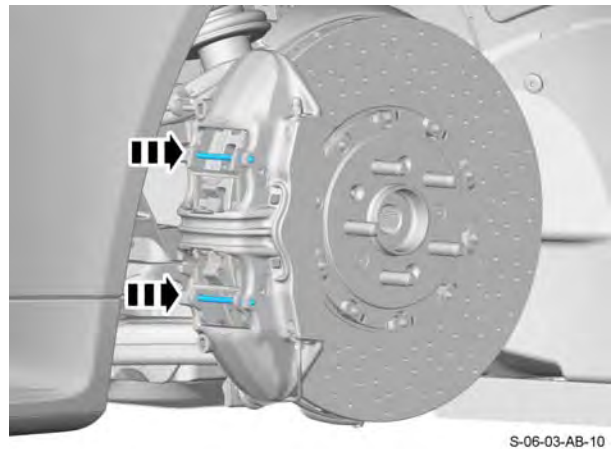


8. **⚠ Caution: Use new bolts to attach the brake caliper to the adapter plate. If you do not use new bolts failure of the braking system can occur.**

Install and torque the two bolts that attach the brake caliper onto the adapter bracket to 30 Nm, then 80 degrees more.



9. Fully install the two pins that attach the brake pads to the brake caliper.




10. Do steps 1 to 10 for the other side.
11. Install the front pad wear leads (06.03.AJ - Pad Wear Lead - Front Pair).
[\[Open Workshop Manual Procedure\]](#)
12. Do a check of the brake-fluid level (06.07.DC - Brake-Fluid Level Check).
[\[Open Workshop Manual Procedure\]](#)
13. Do the brake pad 'Bedding-in' procedure (06.03.BC - Brake Pad 'Bedding-in').
[\[Open Workshop Manual Procedure\]](#)

Published date: 2011-05-03 Procedure last changed: 2015-06-25 16:39:17

Small Normal Large


06.04.AB Right Side Rear Brake Caliper (Remove and Install New Part)


 WSM Data


 Included Procedures


 Is Used In


Removal


-  **Warning: Brake fluid is poisonous. Do not drink the brake-fluid or let it touch your skin or eyes. If you get brake-fluid in your mouth, get medical aid immediately. Flush all brake-fluid from your eyes or skin with water and get medical aid.**


 **Warning: Do not use compressed air to remove brake pad dust. The dust can be dangerous. Always use a vacuum brush or the recommended brake cleaner to remove brake pad dust.**


 **Warning: Always use the correct brake pads that are supplied by Aston Martin. If you do not use the correct brake pads, it is possible that the brakes may not operate correctly and can fail.**


 **Warning: Brake pad dust can be harmful if you breathe it in or get it in your eyes. Always use face and eye protection when you clean the brake components.**

 **Warning: Do not soak or put the brake discs or pads fully into solvent cleaner. If you do, it is possible that they may not operate correctly and can fail.**

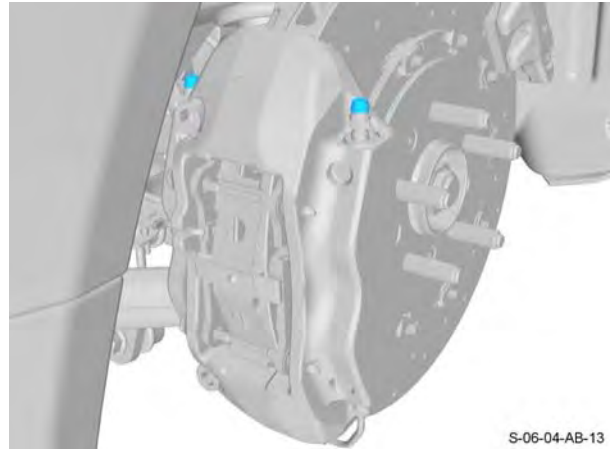
 **Caution: Do not use levers or screwdrivers to retract the pistons into the brake caliper. If you do, you can slip and cause damage to the disc.**

 **Caution: Do not use levers in the vent canals of the disc. It may damage the Carbon Ceramic Matrix (CCM) of the disc.**

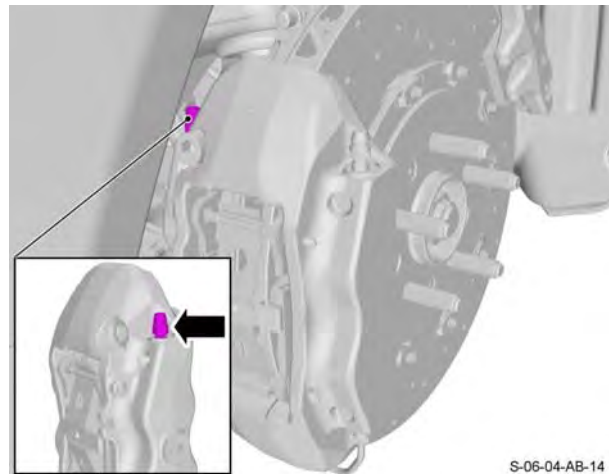
 **Caution: Do not let brake-fluid touch the vehicle paint work. If you do the paintwork can be damaged. Flush all spilled brake-fluid from the paintwork with water.**

 **Caution: Do not use water, cleaning liquids or trichloroethylene to clean the discs or the pads. If you do, it may damage them. Use only the recommended solvents to clean the discs and pads.**
- Remove the wheel and tyre (04.04.EC - Wheel and Tyre).
[\[Open Workshop Manual Procedure\]](#)

3. Remove the inner and outer bleed nipple dust caps on the rear right side brake caliper.



4. Install a bleed container and connect a bleed hose to the inner bleed nipple on the rear right side brake caliper.
5. Open the inner bleed nipple on the rear right side brake caliper.

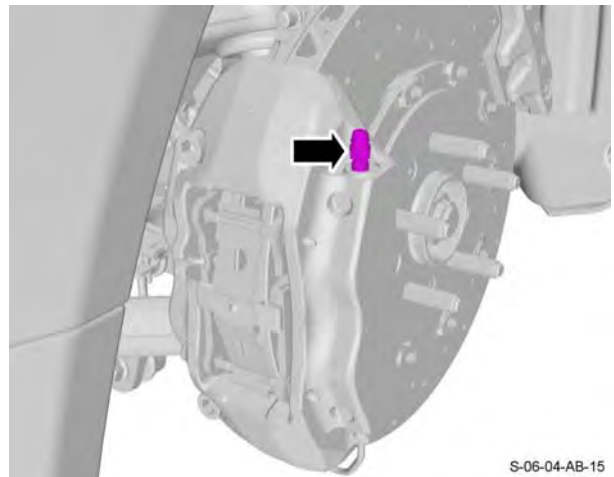


6. Install a bleed container and connect a bleed hose to the outer bleed nipple on the rear right side brake caliper.
7. Open the outer bleed nipple on the rear right side brake caliper.

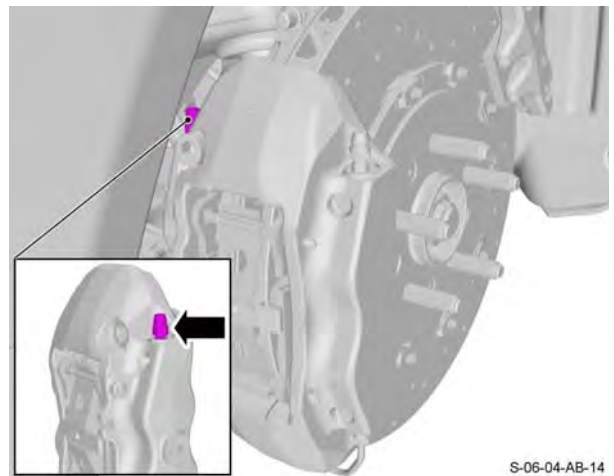


8. Press the brake pedal down by approximately 60mm and hold the pedal with an applicable device.

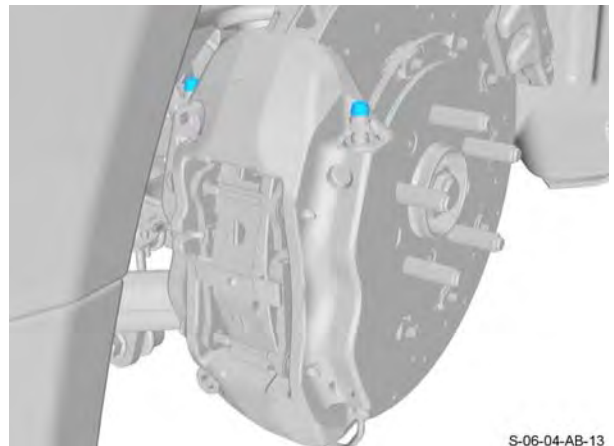
9. Close the outer bleed nipple on the rear right side brake caliper.



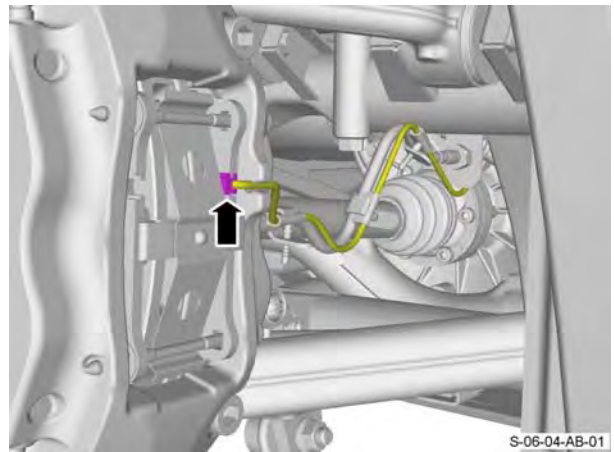
10. Disconnect the bleed hose and move the bleed container.
11. Close the inner bleed nipple on the rear right side brake caliper.



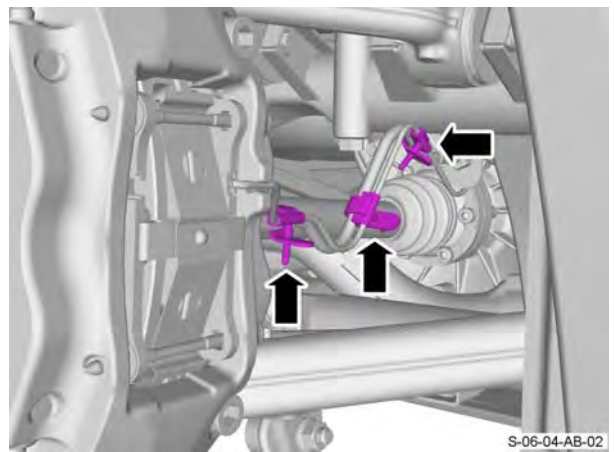
12. Disconnect the bleed hose and move the bleed container.
13. Install the inner and outer bleed nipple dust caps on the rear right side brake caliper.



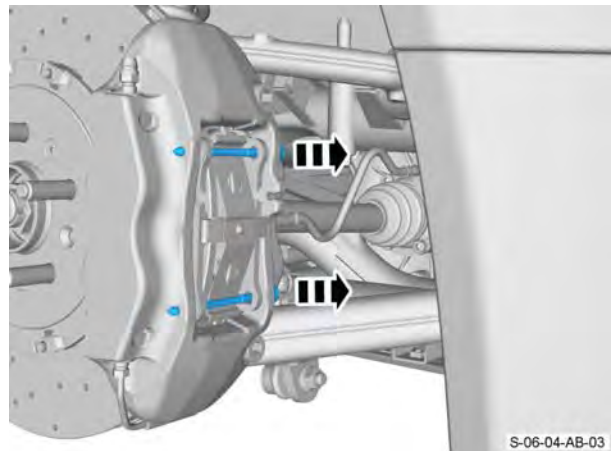
14. Disconnect the pad wear lead from the brake pad.



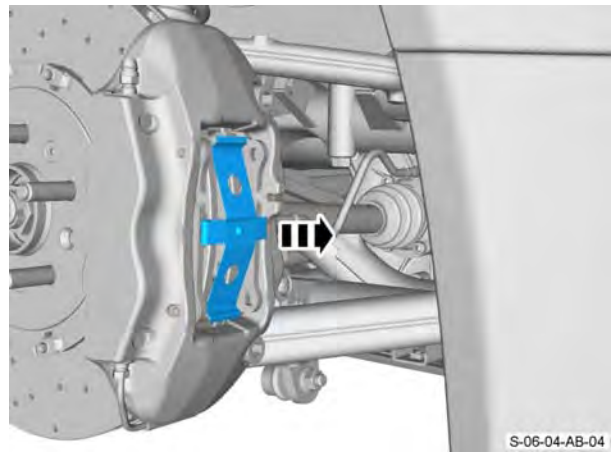
15. Release the three straps that attach the harness for the pad wear lead to the brake hose.



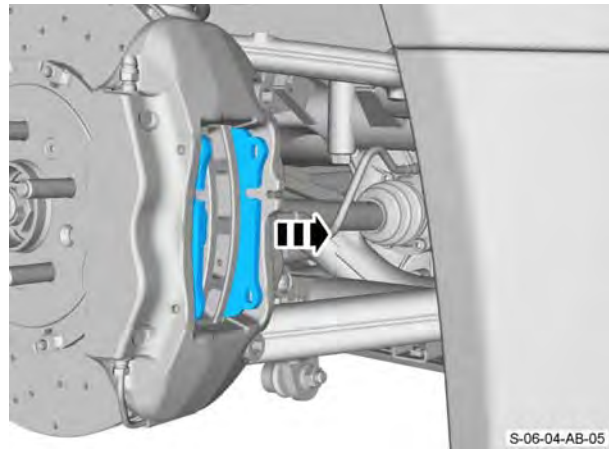
16. Remove the two pins that attach the brake pads to the brake caliper.



17. Remove the anti-rattle spring from the brake caliper.



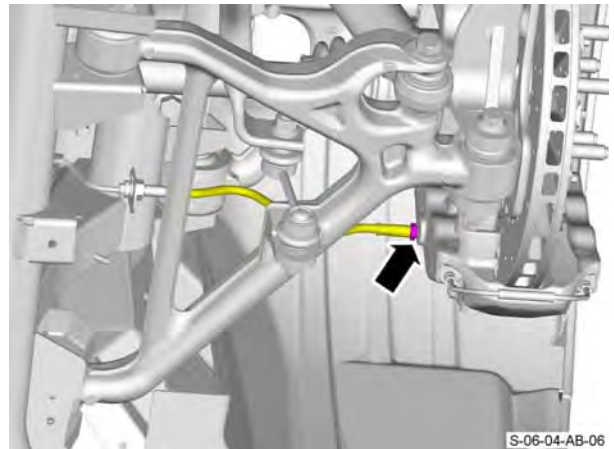
18. Remove the brake pads from the brake caliper.



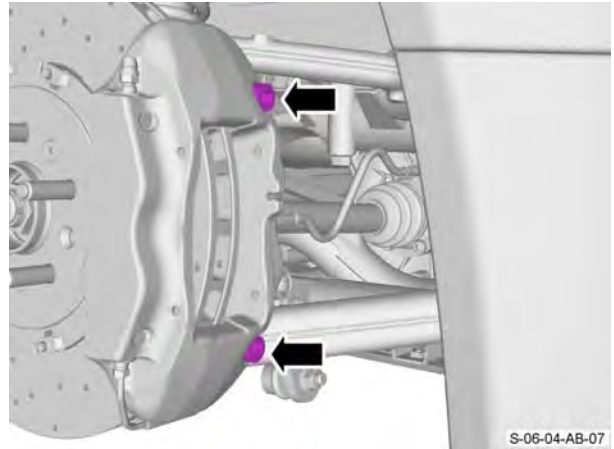
19. Put marks on the brake hose and brake caliper to show the position for the installation procedure.


20. **i** Note: Install applicable caps to seal the open ports.

Undo the union that attaches the brake hose to the brake caliper.

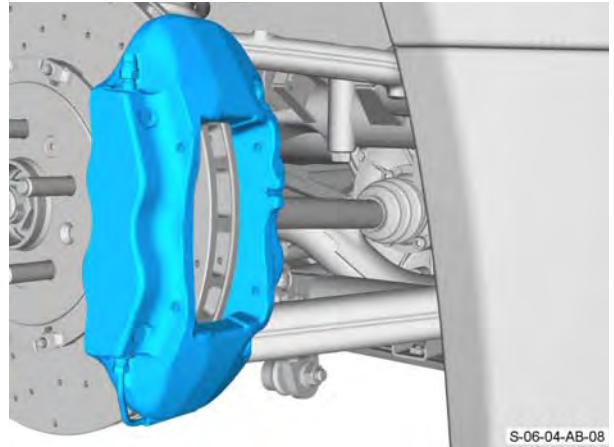


21. Remove and discard the two bolts that attach the brake caliper to the rear knuckle.

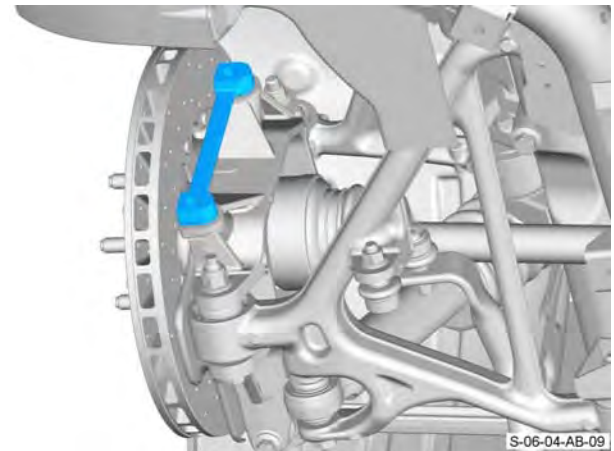


22.  **Caution: Do not use levers to release the brake caliper from the brake disc. This can cause damage to the CCM of the disc.**


Remove the brake caliper.




23. Remove the brake caliper spacer.



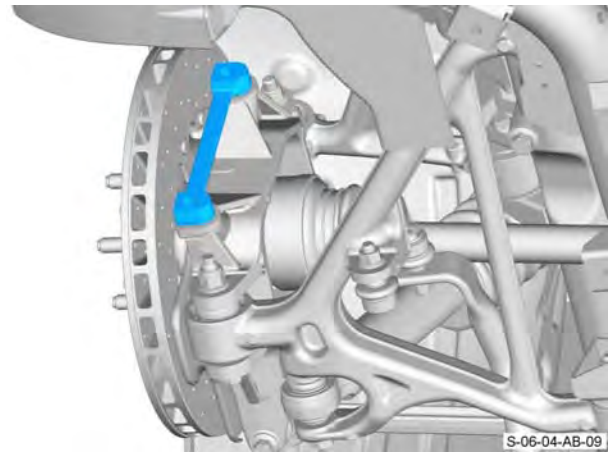
Install

1.  **Caution: Do not let the brake-fluid level go above the "MAX" level-indicator on the brake-fluid reservoir. This will help to prevent damage to the vehicle.**

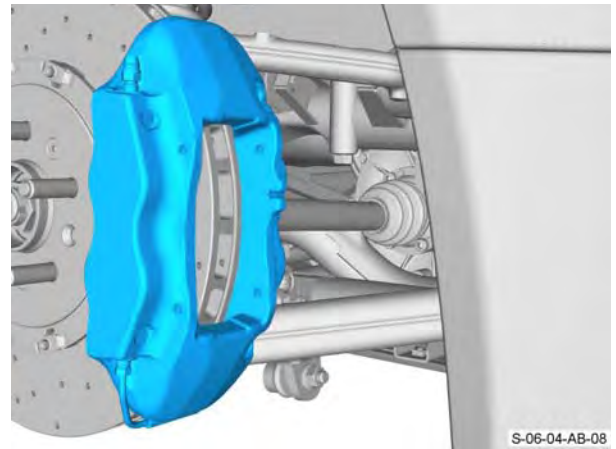
Retract the pistons in the brake caliper.

2.  **Caution: Make sure that the brake caliper spacer is installed in the correct direction. This will help to prevent damage to the vehicle.**

Install the brake caliper spacer.

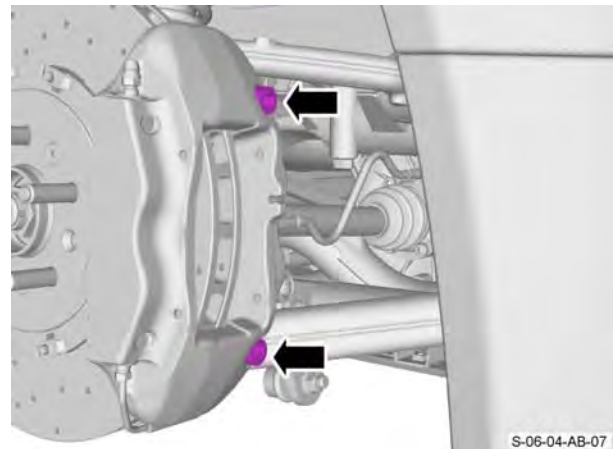



3. Put the brake caliper into position on the rear knuckle.

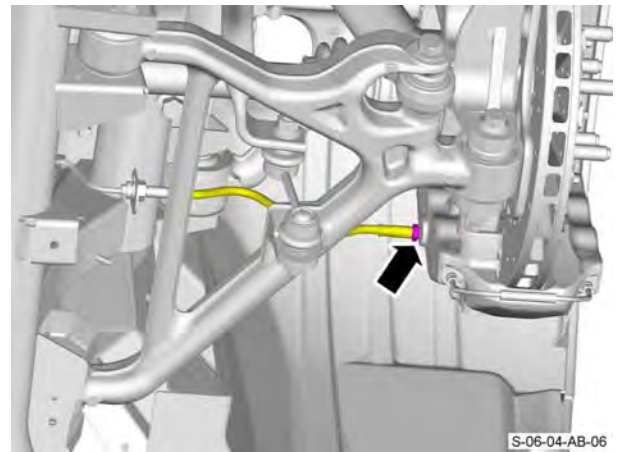


4.  **Caution: New bolts must be used during the installation of the brake caliper. If you do not use new bolts failure of the brake system can occur.**

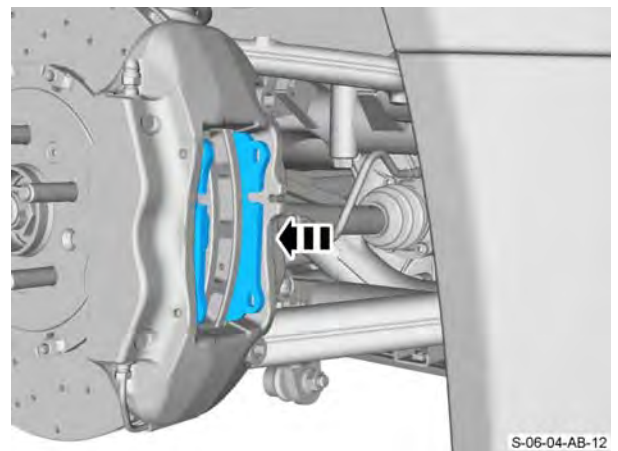
Install and torque the two new bolts that attach the brake caliper to the rear knuckle to 30 Nm, then 80 degrees more.



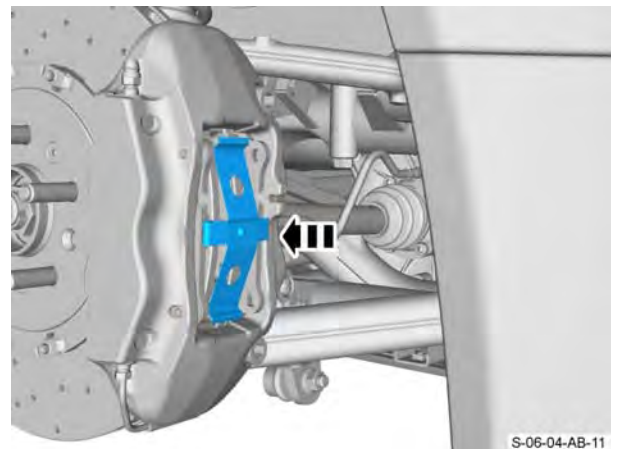
5.  *Note: Remove and discard the caps.*
Install and torque the union that attaches the brake hose to the brake caliper to 22 Nm.



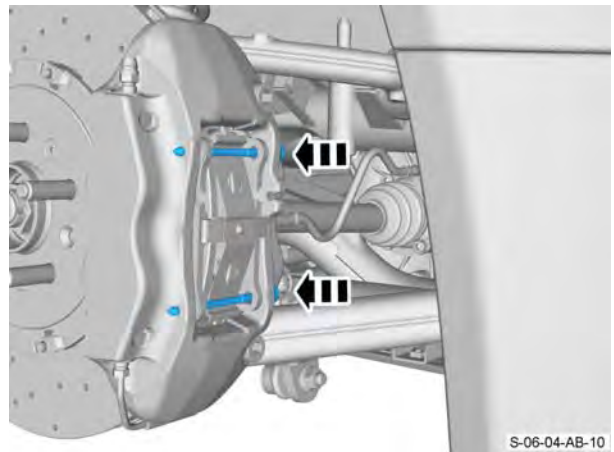
6. Use an approved solvent to clean the brake pads, pins and anti-rattle spring.
7. Install the brake pads into the brake caliper.



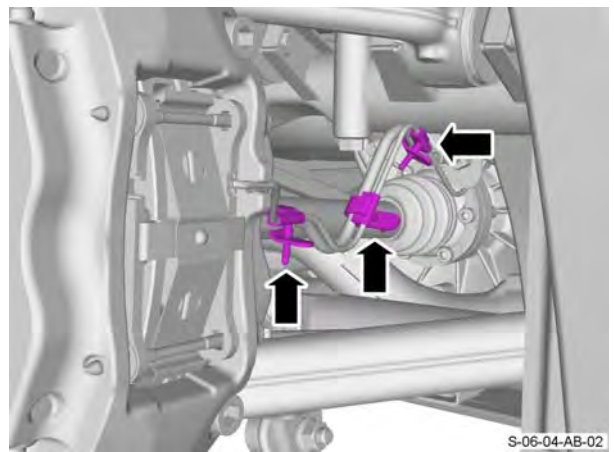
8. Install the anti-rattle spring to the brake caliper.



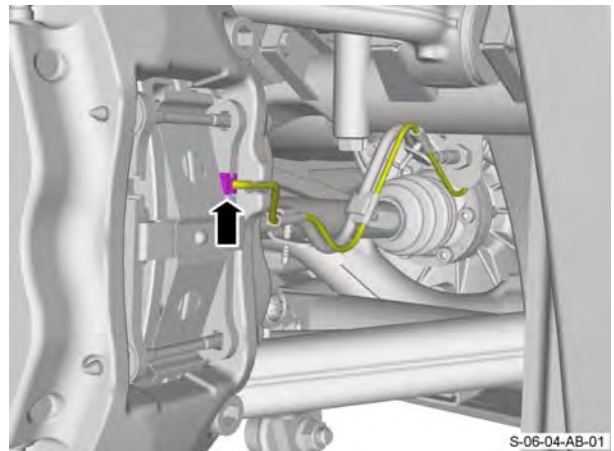
9. Fully install the two pins that attach the brake pads to the brake caliper.



10. Install the three straps that attach the harness for the pad wear lead to the brake hose.



11. Connect the pad wear lead to the brake pad.






12. Remove the brake pedal prop.
13. Fill and bleed the hydraulic brake system (06.07.DD - Brake Bleed - With AMDS).
[\[Open Workshop Manual Procedure\]](#)










Published date: 2011-05-03 Procedure last changed: 2015-06-25 16:39:17

Small Normal Large

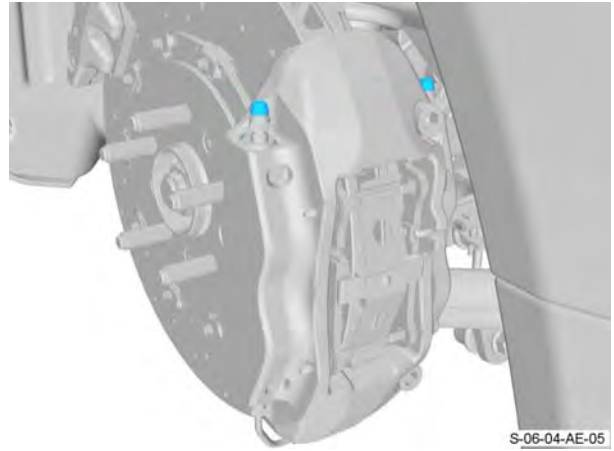
06.04.AC Left Side Rear Brake Caliper (Remove and Install New Part)

-  WSM Data
-  Included Procedures
-  Is Used In

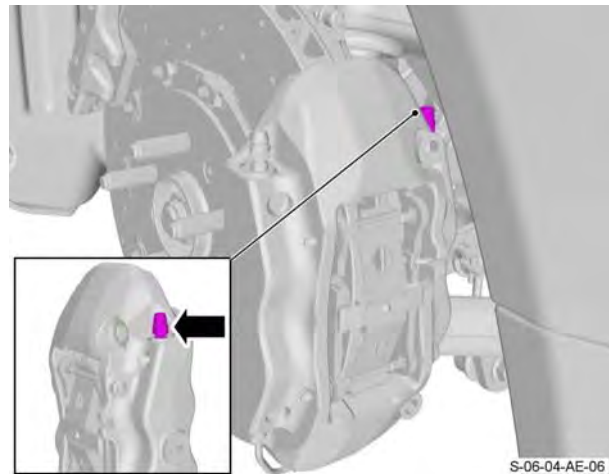
Removal

1.
 -  **Warning: Brake fluid is poisonous. Do not drink the brake-fluid or let it touch your skin or eyes. If you get brake-fluid in your mouth, get medical aid immediately. Flush all brake-fluid from your eyes or skin with water and get medical aid.**
 -  **Warning: Do not use compressed air to remove brake pad dust. The dust can be dangerous. Always use a vacuum brush or the recommended brake cleaner to remove brake pad dust.**
 -  **Warning: Always use the correct brake pads that are supplied by Aston Martin. If you do not use the correct brake pads, it is possible that the brakes may not operate correctly and can fail.**
 -  **Warning: Brake pad dust can be harmful if you breathe it in or get it in your eyes. Always use face and eye protection when you clean the brake components.**
 -  **Warning: Do not soak or put the brake discs or pads fully into solvent cleaner. If you do, it is possible that they may not operate correctly and can fail.**
 -  **Caution: Do not use levers or screwdrivers to retract the pistons into the brake caliper. If you do, you can slip and cause damage to the disc.**
 -  **Caution: Do not use levers in the vent canals of the disc. It may damage the Carbon Ceramic Matrix (CCM) of the disc.**
 -  **Caution: Do not let brake-fluid touch the vehicle paint work. If you do the paintwork can be damaged. Flush all spilled brake-fluid from the paintwork with water.**
 -  **Caution: Do not use water, cleaning liquids or trichloroethylene to clean the discs or the pads. If you do, it may damage them. Use only the recommended solvents to clean the discs and pads.**
2. Remove the wheel and tyre (04.04.EC - Wheel and Tyre).
[\[Open Workshop Manual Procedure\]](#)

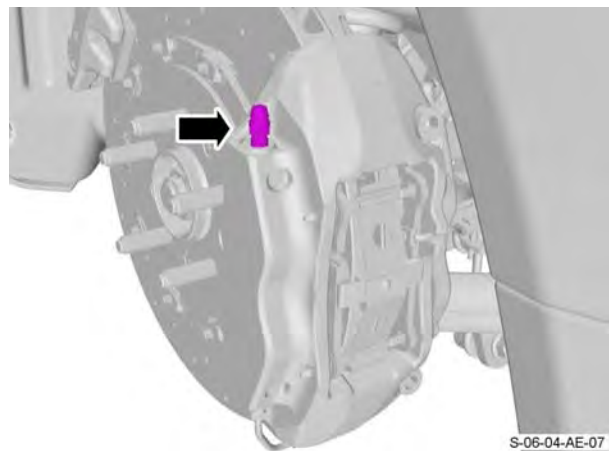
3. Remove the inner and outer bleed nipple dust caps on the rear left side brake caliper.



4. Install a bleed container and connect a bleed hose to the inner bleed nipple on the rear left side brake caliper.
5. Open the inner bleed nipple on the rear left side brake caliper.

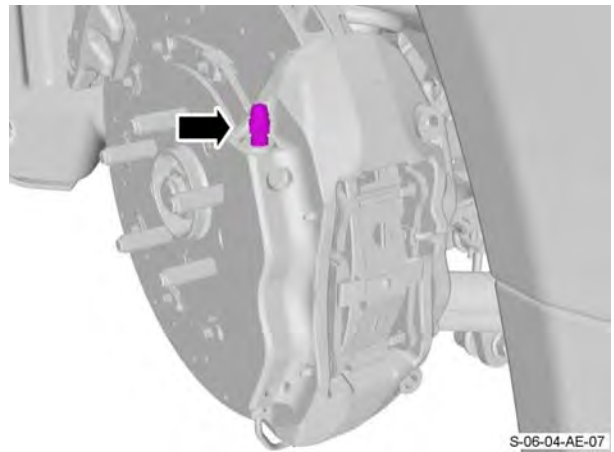


6. Install a bleed container and connect a bleed hose to the outer bleed nipple on the rear left side brake caliper.
7. Open the outer bleed nipple on the rear left side brake caliper.

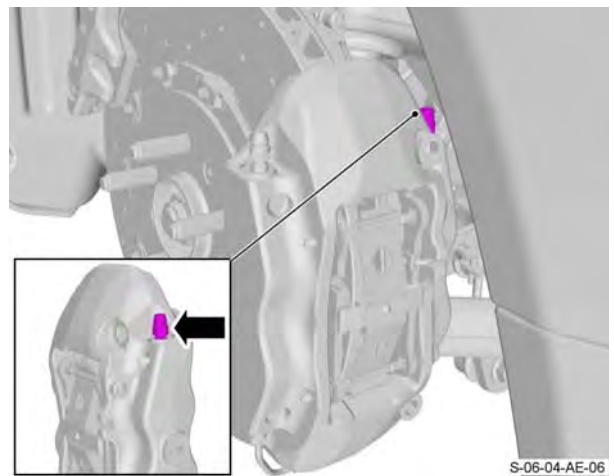


8. Press the brake pedal down more than 60 mm and use an applicable device to hold the pedal.

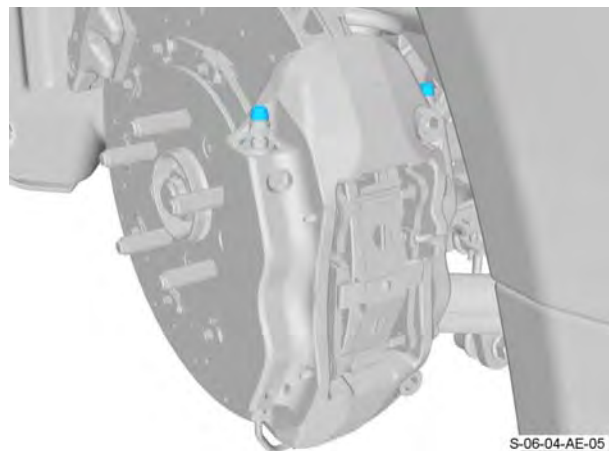
9. Close the outer bleed nipple on the rear left side brake caliper.



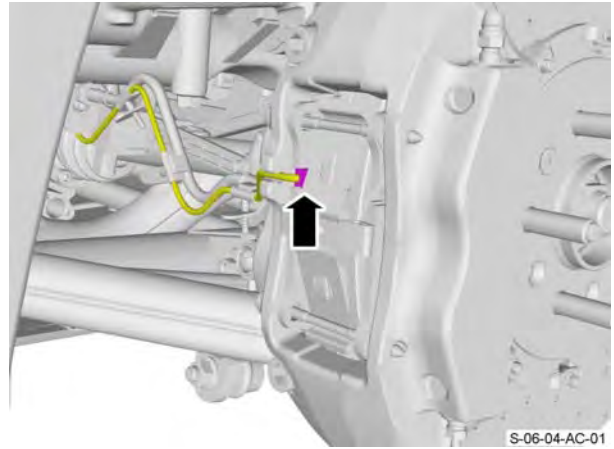
10. Disconnect the bleed hose and move the bleed container.
11. Close the inner bleed nipple on the rear left side brake caliper.



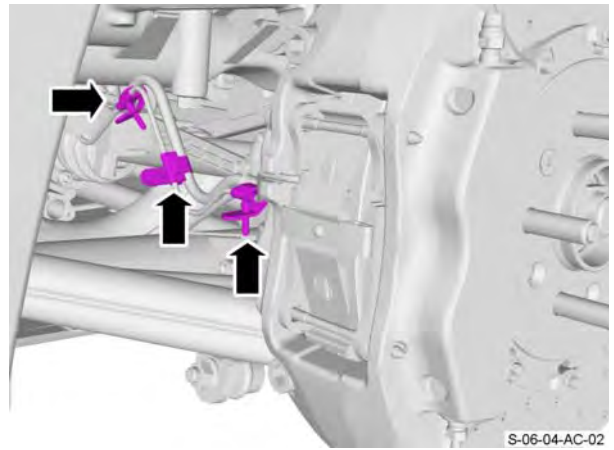
12. Disconnect the bleed hose and move the bleed container.
13. Install the inner and outer bleed nipple dust caps on the rear left side brake caliper.



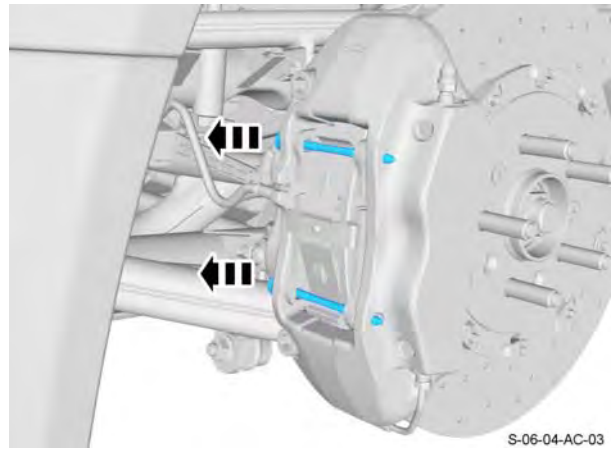
14. Disconnect the pad wear lead from the brake pad.



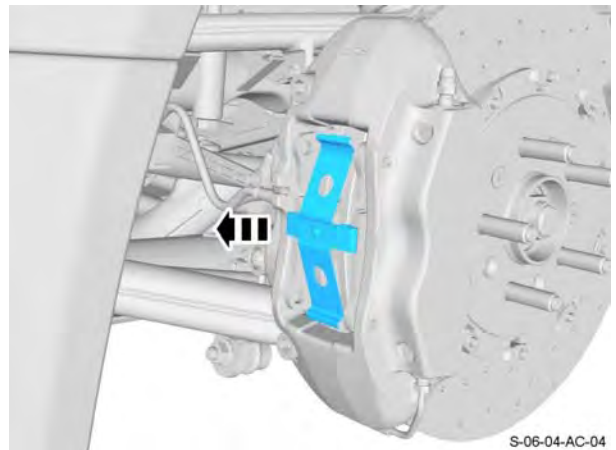
15. Release the three straps that attach the harness for the pad wear lead to the brake hose.



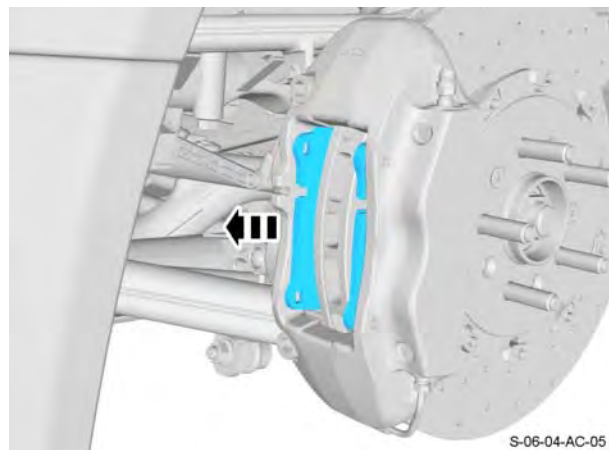
16. Remove the two pins that attach the brake pads to the brake caliper.




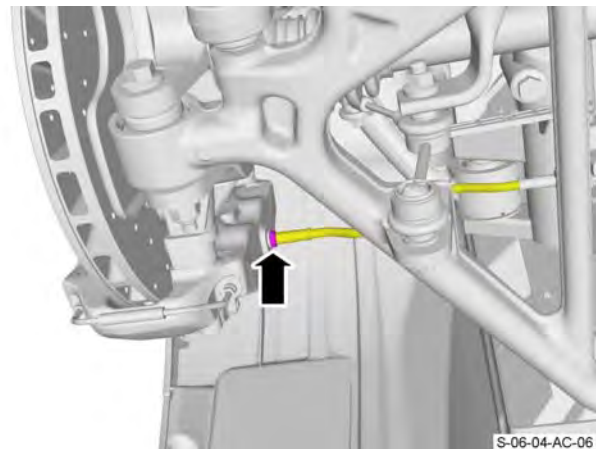
17. Remove the anti-rattle spring from the brake caliper.



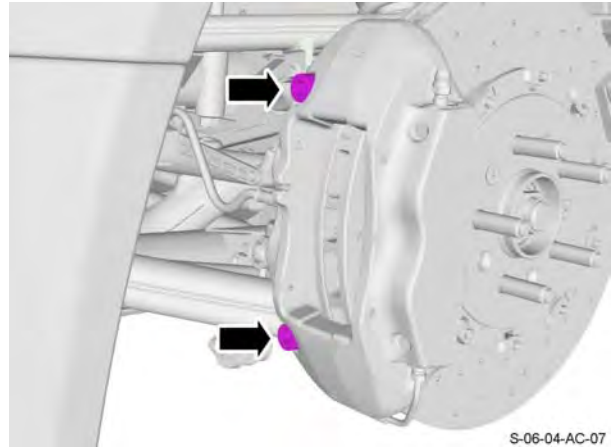
18. Remove the brake pads from the brake caliper.




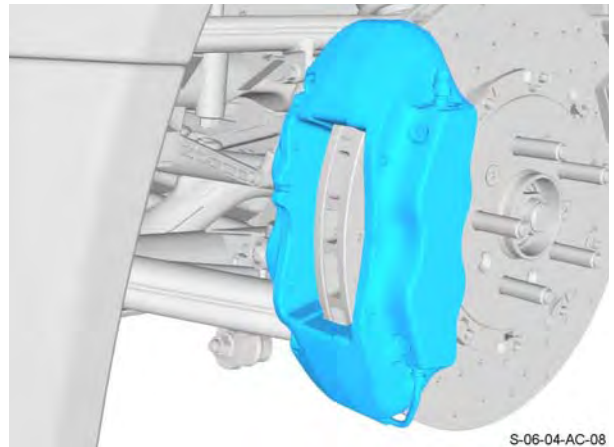
19. Put marks on the brake hose and brake caliper to show the position for the installation procedure.
20.  *Note: Install applicable caps to seal the open ports.*
Undo the union that attaches the brake hose to the brake caliper.



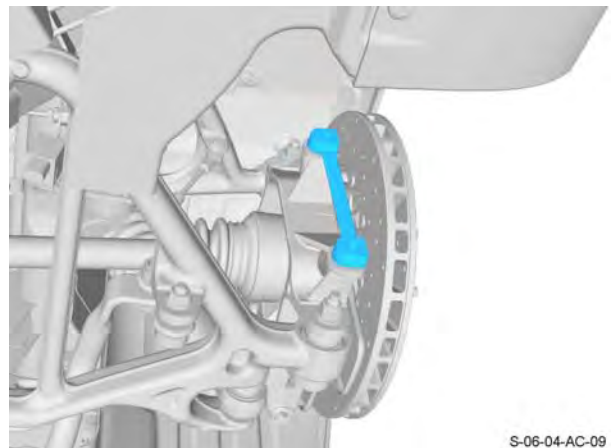
21. Remove and discard the two bolts that attach the brake caliper to the rear knuckle.




22.  **Caution: Do not use levers to release the brake caliper from the brake disc. This can cause damage to the Carbon Ceramic Matrix (CCM) of the disc.**
Remove the handbrake caliper.




23. Remove the brake caliper spacer.

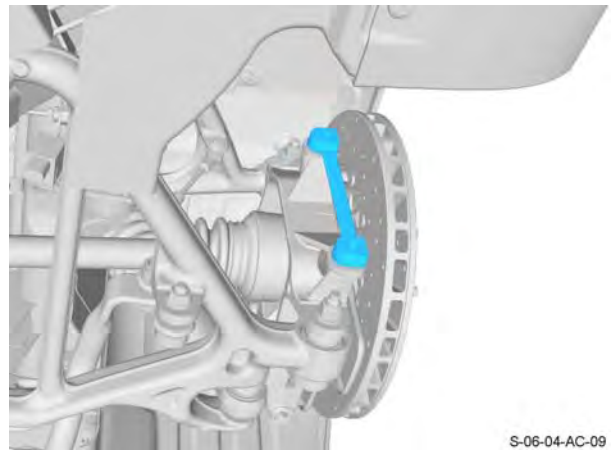


Install

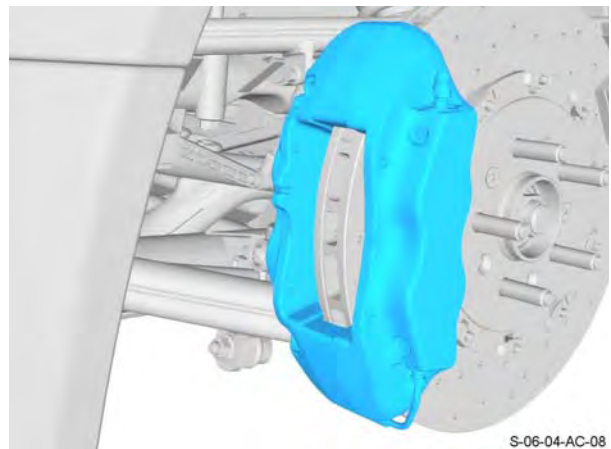
1.  **Caution: Do not let the brake-fluid level go above the "MAX" level-indicator on the brake-fluid reservoir. This will help to prevent damage to the vehicle.**
Retract the pistons in the brake caliper.

2.  **Caution: Make sure that the brake caliper spacer is installed in the correct direction. This will help to prevent damage to the vehicle.**

Install the brake caliper spacer.

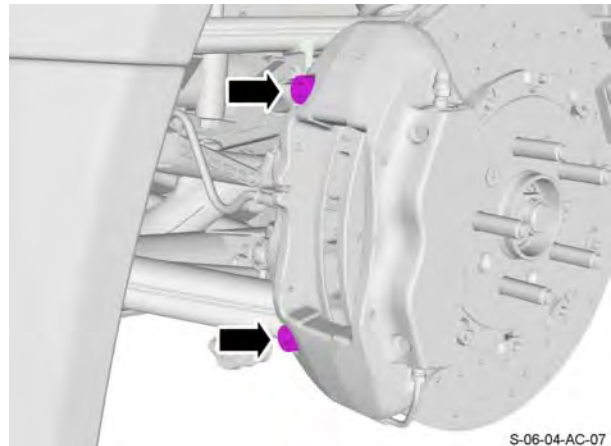



3. Put the brake caliper into position on the rear knuckle.

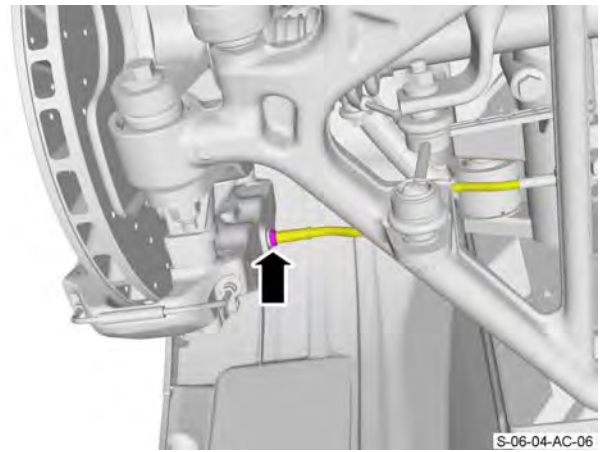


4.  **Caution: New bolts must be used during the installation of the brake caliper. If you do not use new bolts failure of the brake system can occur.**

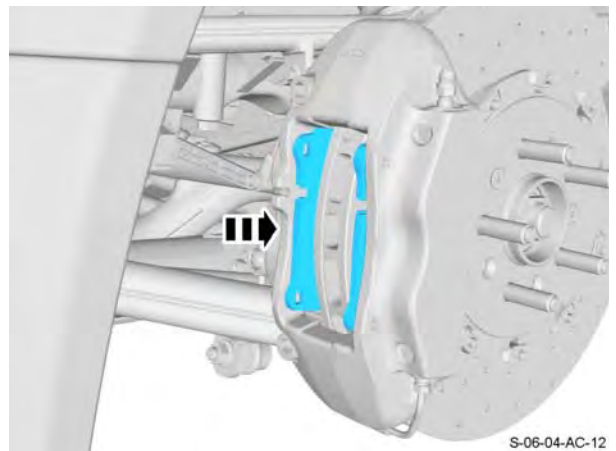
Install and torque the two new bolts that attach the brake caliper to the rear knuckle to 30 Nm, then 80 degrees more.



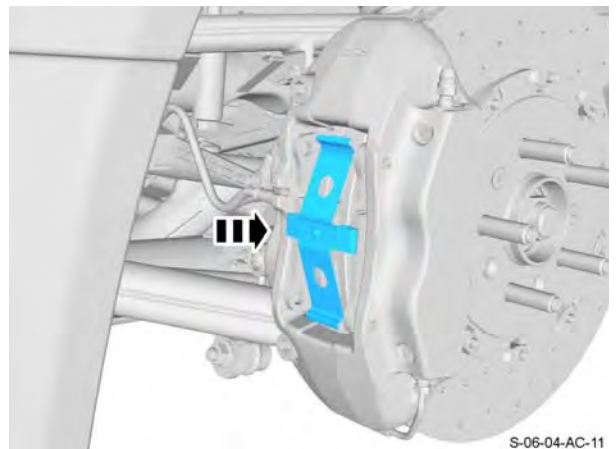
5.  *Note: Remove and discard the caps.*
Install and torque the union that attaches the brake hose to the brake caliper to 22 Nm.



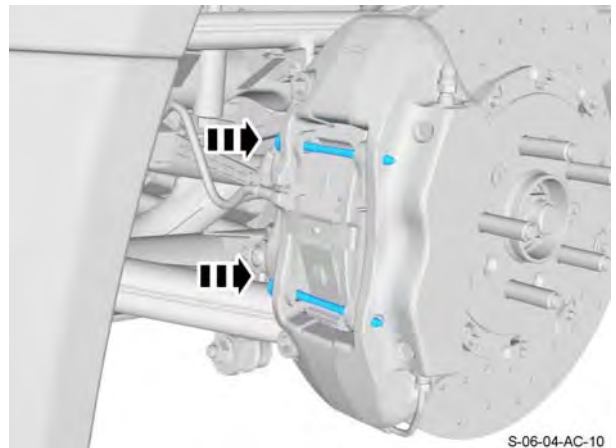
6. Use an approved solvent to clean the brake pads, pins and anti-rattle spring.
7. Install the brake pads into the brake caliper.



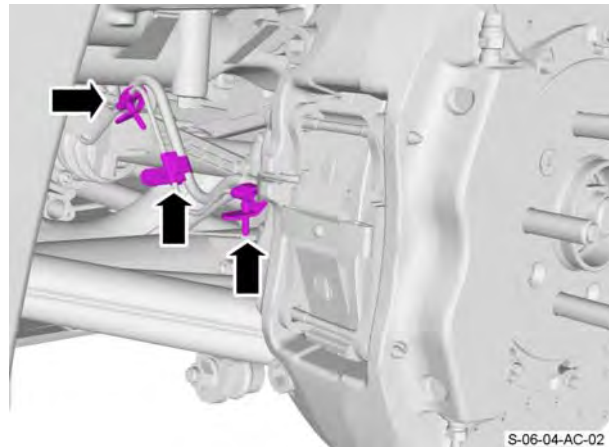
8. Install the anti-rattle spring to the brake caliper.



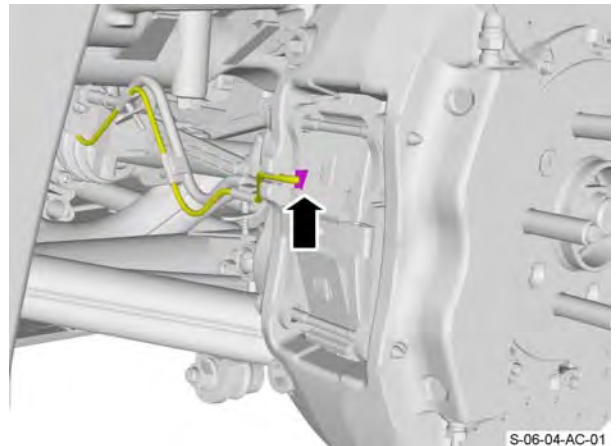
9. Fully install the two pins that attach the brake pads to the brake caliper.



10. Install the three straps that attach the harness for the pad wear lead to the brake hose.






11. Connect the pad wear lead to the brake pad.



12. Remove the brake pedal prop.
13. Fill and bleed the hydraulic brake system (06.07.DD - Brake Bleed - With AMDS).
[\[Open Workshop Manual Procedure\]](#)

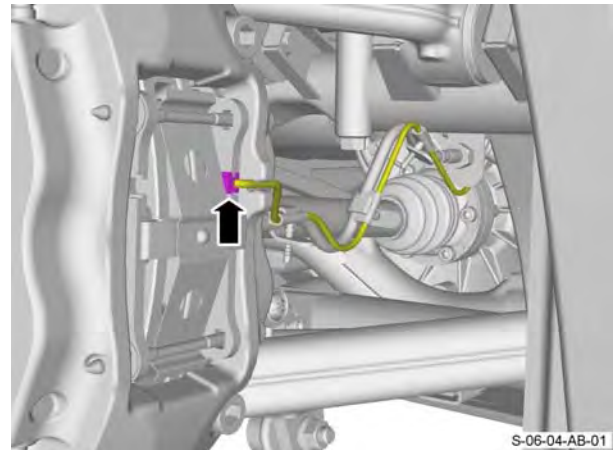
Published date: 2011-05-03 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****06.04.AJ Rear Pad Wear Leads (Remove and Install New Part)**

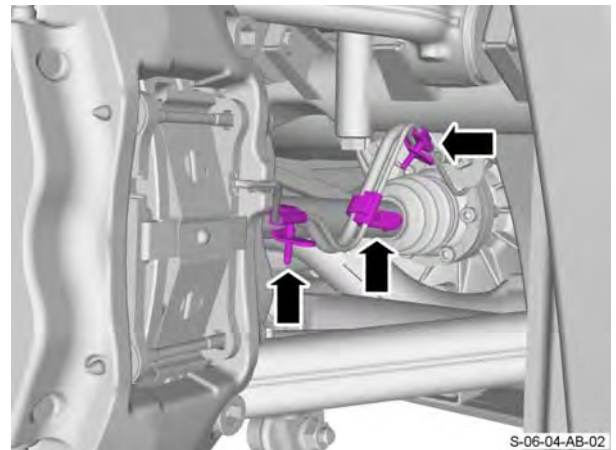
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

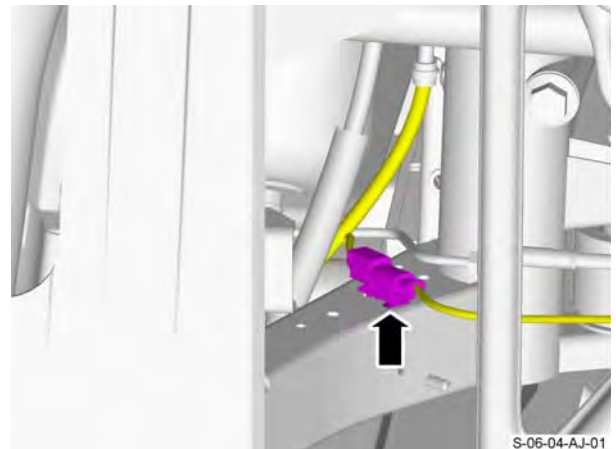
1. Remove the wheels and tyres (04.04.ED - Wheels and Tyres - Two).
[\[Open Workshop Manual Procedure\]](#)
2. Disconnect the pad wear lead from the brake pad.



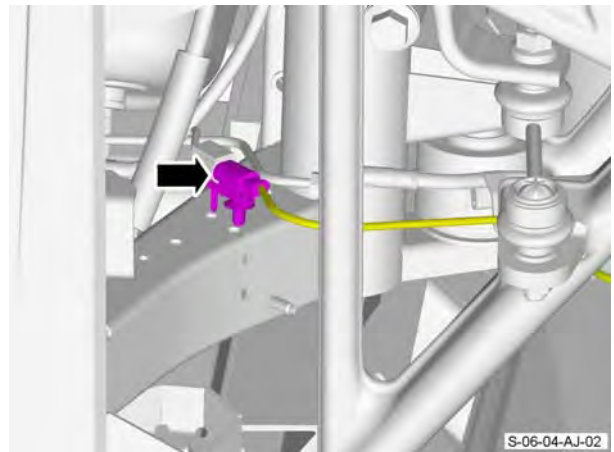
3. Release the three straps that attach the harness for the pad wear lead to the brake hose.



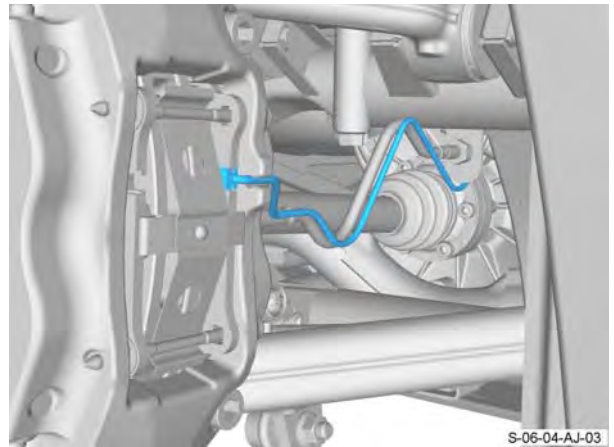
4. Release the harness for the pad wear lead from the rear subframe.



5. Disconnect the electrical connector from the pad wear lead.



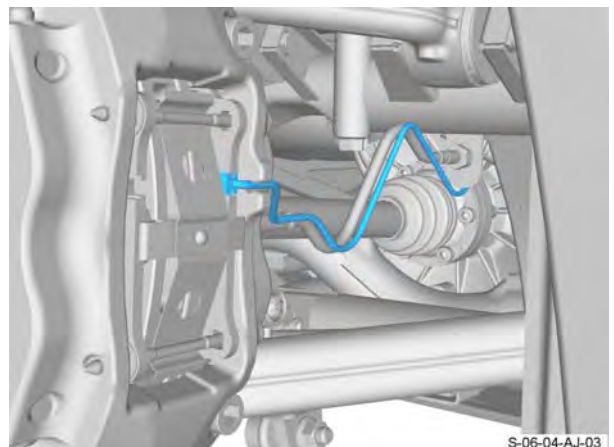
6. Remove the pad wear lead.



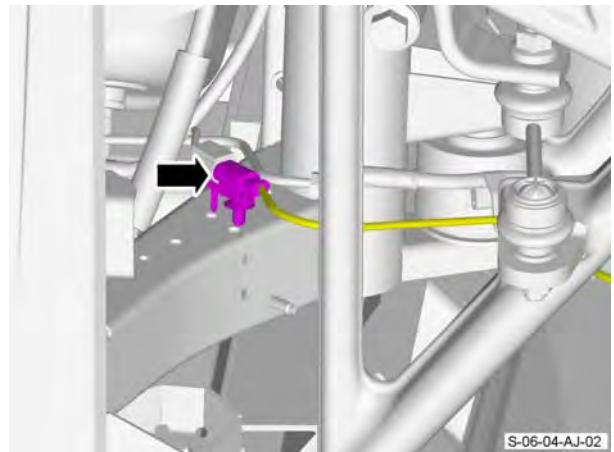
7. Do steps 2 to 6 for the other side.

Install

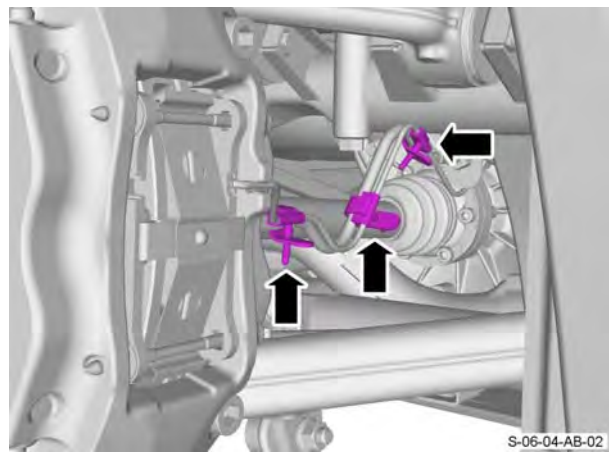
1. Install the pad wear lead.



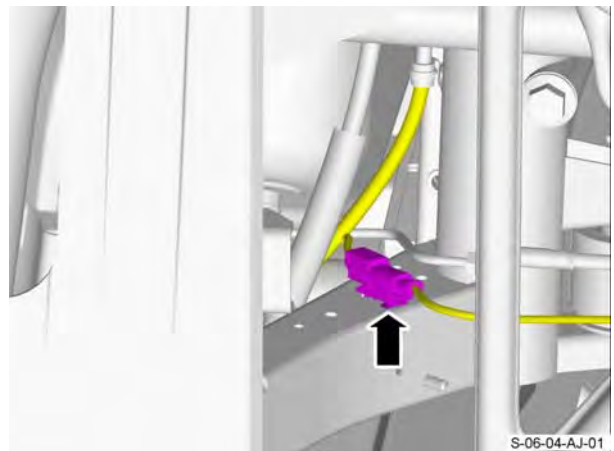
2. Connect the electrical connector to the pad wear lead.



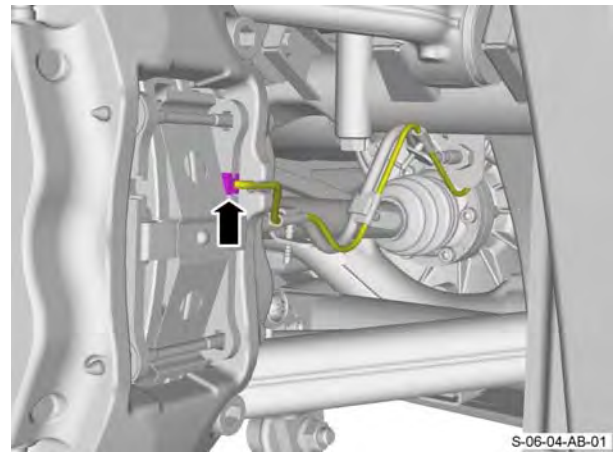
3. Install the three straps that attach the harness for the pad wear lead to the brake hose.



4. Install the harness for the pad wear lead to the rear subframe.






5. Connect the pad wear lead to the brake pad.



6. Do steps 1 to 5 for the other side.
7. Install the wheels and tyres (04.04.ED - Wheels and Tyres - Two).
[\[Open Workshop Manual Procedure\]](#)

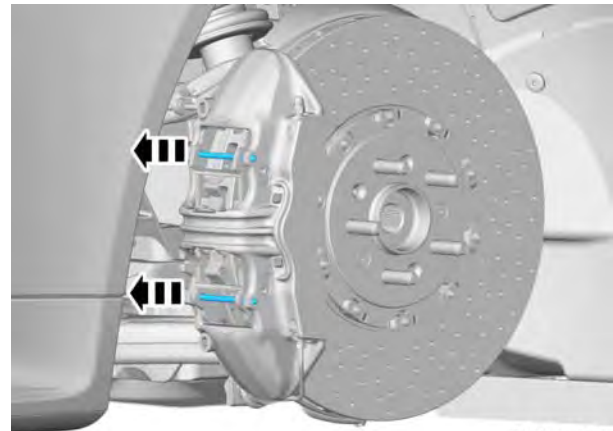
Published date: 2011-05-03 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****06.03.BA Front Brake Discs and Pads - Vehicle Set (Remove and Install New Part)**

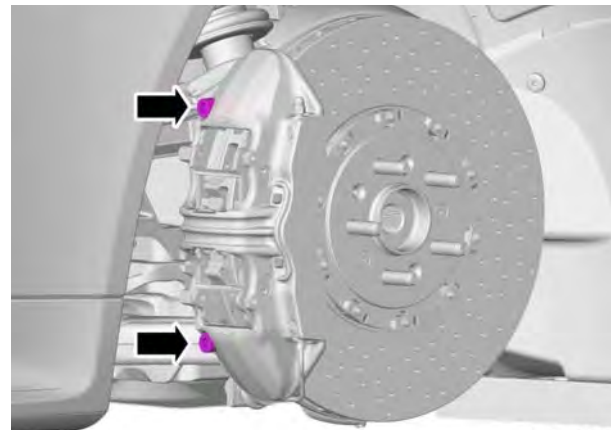
-  WSM Data
-  Included Procedures
-  Is Used In


Removal

1. Remove the front pad wear leads (06.03.AJ - Pad Wear Lead - Front Pair).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the two pins that attach the brake pads to the brake caliper.

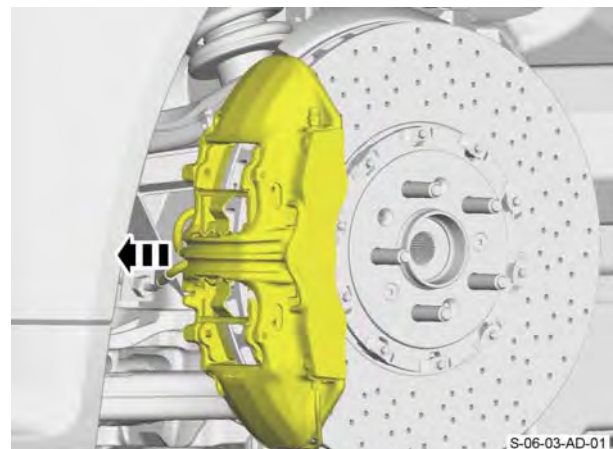



3. Remove and discard the two bolts that attach the brake caliper to the adapter bracket.




4.  **Caution: Do not use levers to release the brake caliper from the brake disc. This can cause damage to the CCM of the disc.**

Remove the brake caliper.

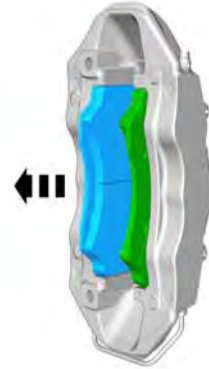


5.  **Caution: Make sure that the brake caliper does not hang on the brake hose. This will help to prevent damage to the brake hose.**

Use an applicable tie strap to hold the brake caliper.

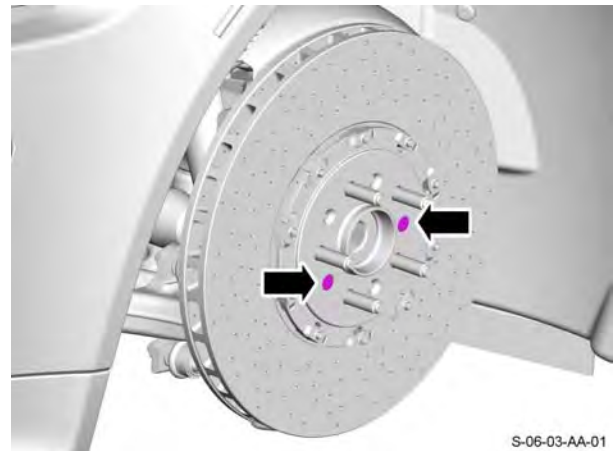
6.  **Note: Examine the pads for wear and /or damage. Replace if necessary.**

Remove the brake pads from the brake caliper.




S-06-03-AC-08

7. Remove the two screws that attach the brake disc to the hub.



S-06-03-AA-01

8.  **Caution: Do not use a hammer or similar tool to remove the brake discs. If you do the disc can be damaged.**

Remove the brake disc.

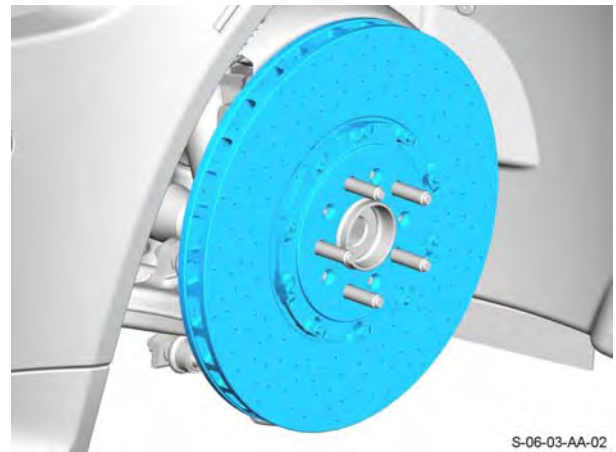


S-06-03-AA-02

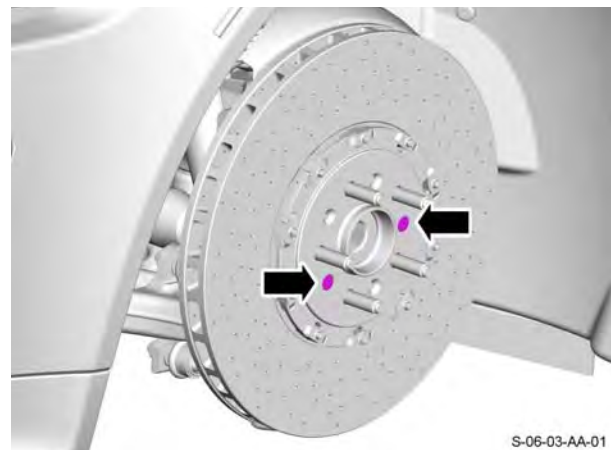
9. Do steps 2 to 9 for the other brake disc.


Install

1. Install the brake disc.




2. Install and torque the two screws that attach the brake disc to the hub to 11 Nm.



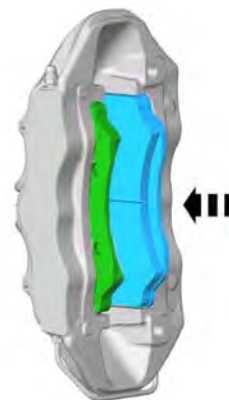
3.  **Caution: Do not let the brake-fluid level go above the "MAX" level-indicator on the brake-fluid reservoir. This will help to prevent damage to the vehicle.**

Retract the pistons in the brake caliper.

4. Use an approved solvent to clean the brake pads and pins.

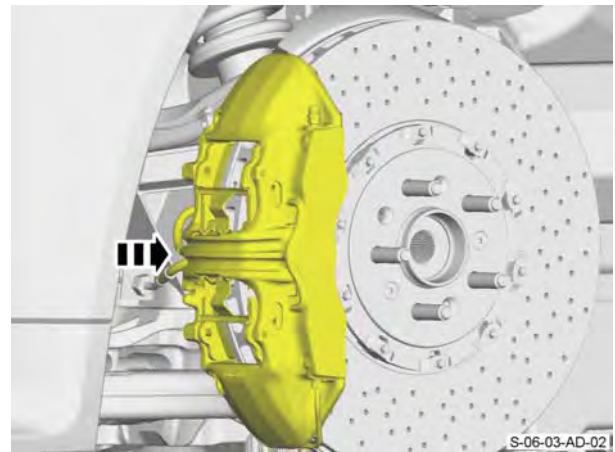
5.  *Note: The brake caliper is shown removed for visual aid.*

Install the brake pads into the brake caliper.



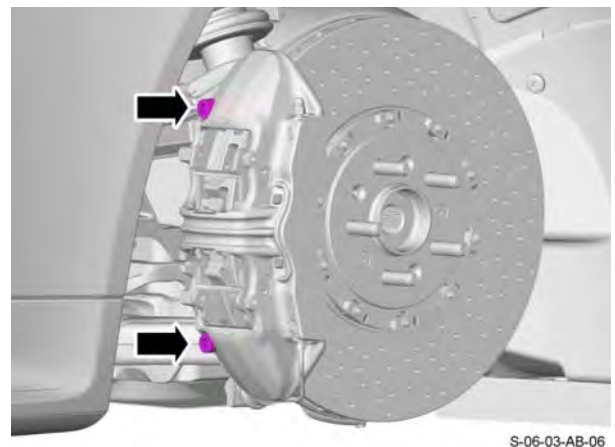
6. Remove and discard the tie strap that holds the brake caliper.

7. Put the brake caliper into position on the adapter bracket.

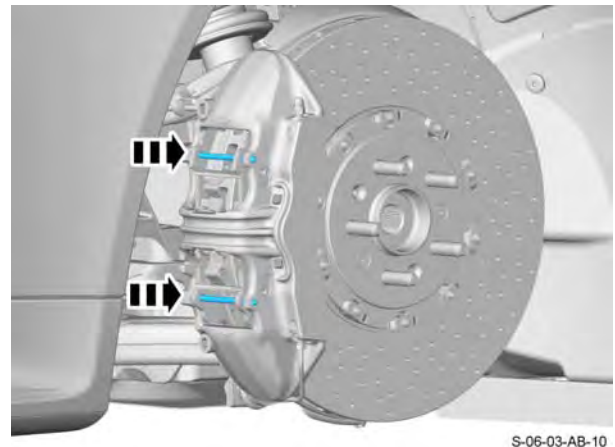


8. **⚠ Caution: Use new bolts to attach the brake caliper to the adapter plate. If you do not use new bolts failure of the braking system can occur.**

Install and torque the two bolts that attach the brake caliper onto the adapter bracket to 30 Nm, then 80 degrees more.






9. Fully install the two pins that attach the brake pads to the brake caliper.



10. Do steps 1 to 10 for the other side.
11. Install the front pad wear leads (06.03.AJ - Pad Wear Lead - Front Pair).
[\[Open Workshop Manual Procedure\]](#)
12. Do a check of the brake-fluid level (06.07.DC - Brake-Fluid Level Check).
[\[Open Workshop Manual Procedure\]](#)
13. Do the brake pad 'Bedding-in' procedure (06.03.BC - Brake Pad 'Bedding-in').
[\[Open Workshop Manual Procedure\]](#)

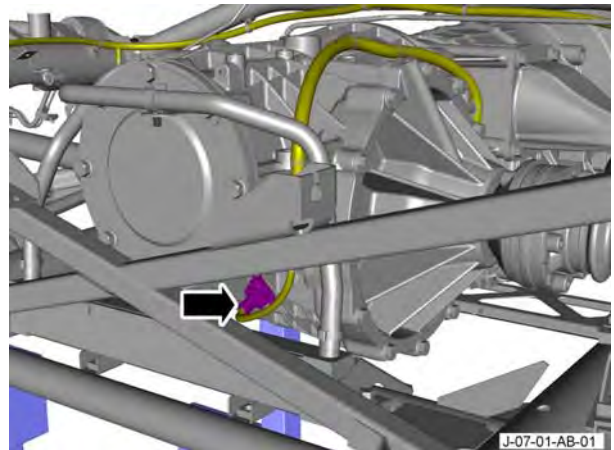
Published date: 2011-05-03 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****07.01.AB Transmission Assembly (Remove and Install New Part)**

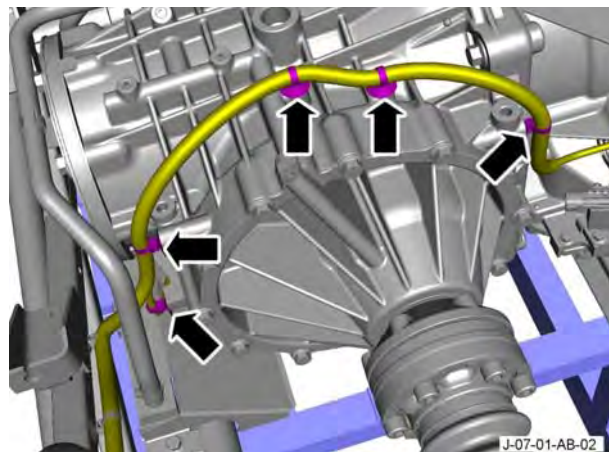
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

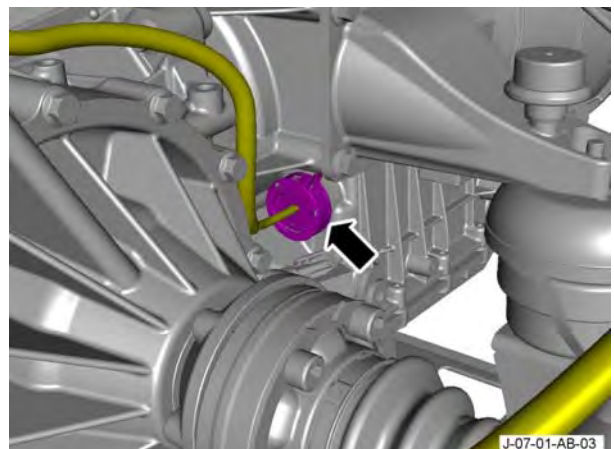
1. Remove the rear subframe and transmission assembly (02.01.CA - Rear Subframe).
[\[Open Workshop Manual Procedure\]](#)
2. Disconnect the electrical connector from the speed sensor.





3. Release the wiring harness for the transmission from the five clips that attach it to the differential.

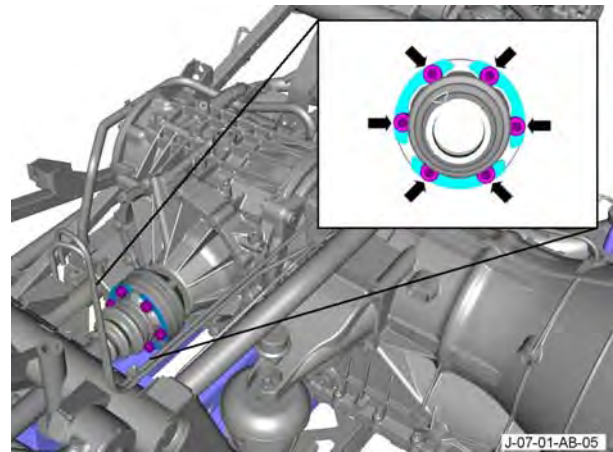




4. Disconnect the electrical connector from the transmission.



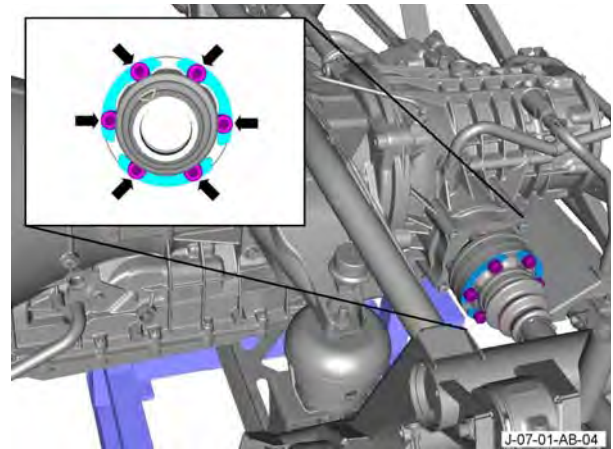
5.  *Note: Put marks on the driveshaft flange to aid installation.*
 *Note: Collect the link plates when you remove the Allen bolts.*

Remove and discard the six Allen bolts that attach the right side driveshaft to the differential.

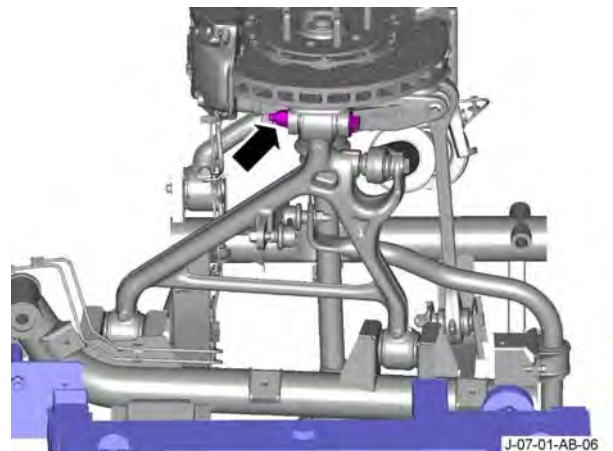


6.  *Note: Put marks on the driveshaft flange to aid installation.*
 *Note: Collect the link plates when you remove the Allen bolts.*

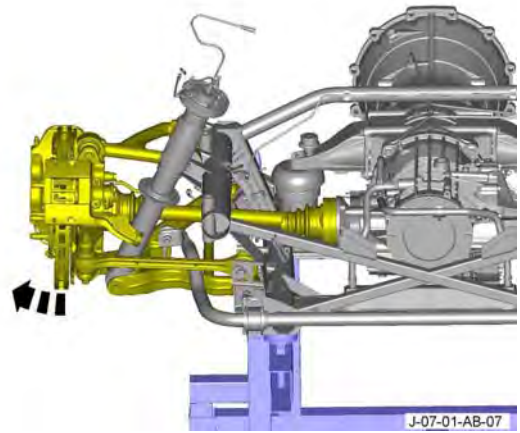
Remove and discard the six Allen bolts that attach the left side driveshaft to the differential.



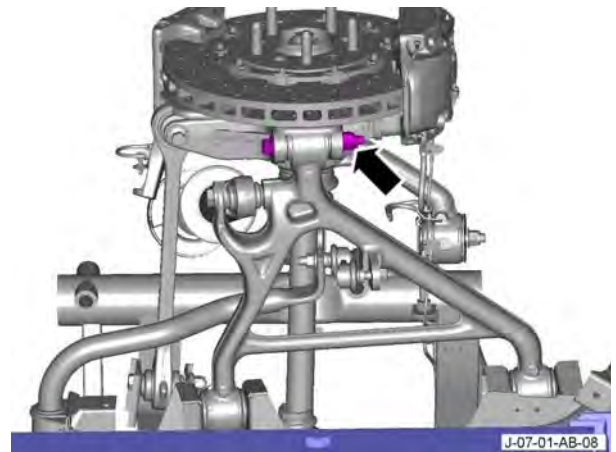
7. Remove the nut and bolt that attaches the left side rear suspension bottom arm to the left side rear knuckle.



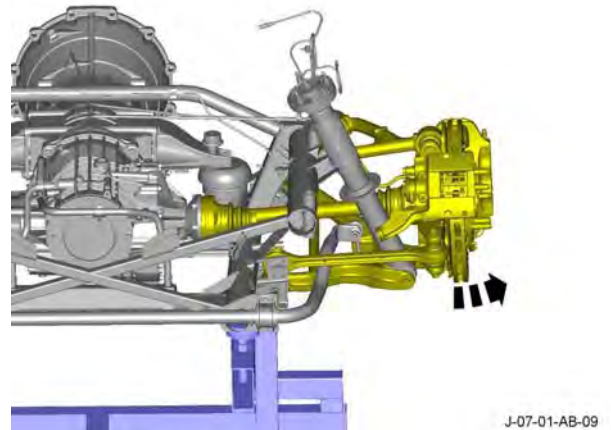
8. Move the left side driveshaft and left side rear knuckle away from the transmission.



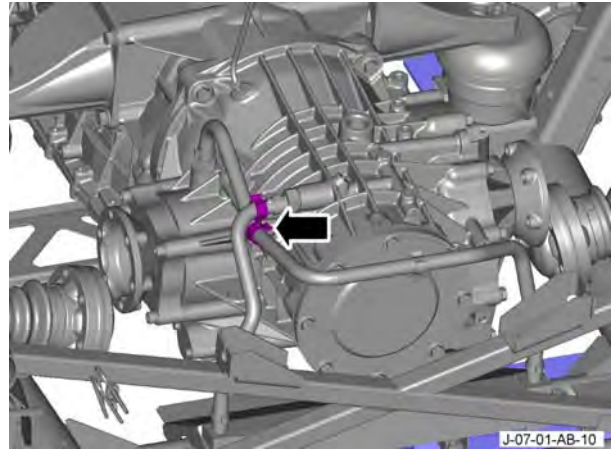
9. Remove the nut and bolt that attaches the right side rear suspension bottom arm to the right side rear knuckle.



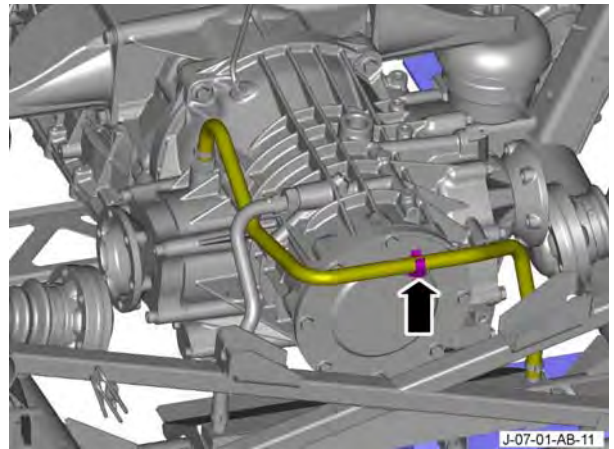
10. Move the right side driveshaft and right side rear knuckle away from the transmission.



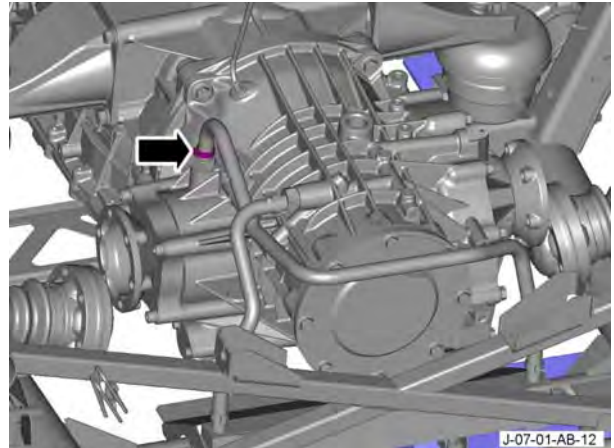
11. Remove the clip that attaches the inlet hose for the differential oil cooler to the outlet hose for the differential oil cooler.



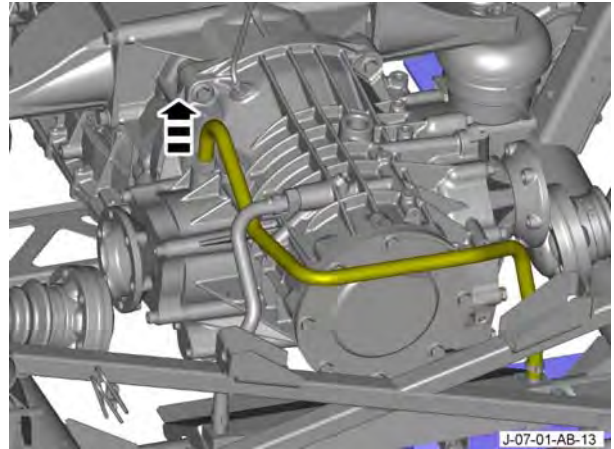
12. Release the inlet hose for the differential oil cooler from the clip that attaches it to the differential.



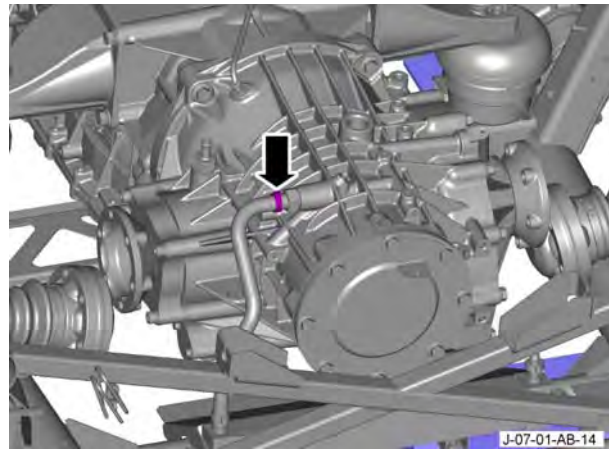
13. Remove the clip that attaches the inlet hose for the differential oil cooler to the differential.



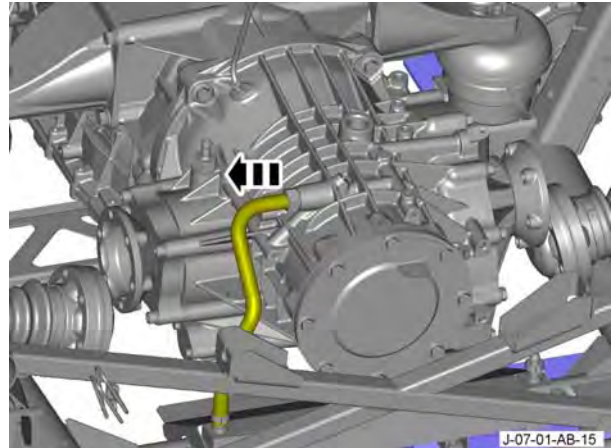
14. Disconnect the inlet hose for the differential oil cooler from the differential.



15. Remove the clip that attaches the outlet hose for the differential oil cooler to the differential.



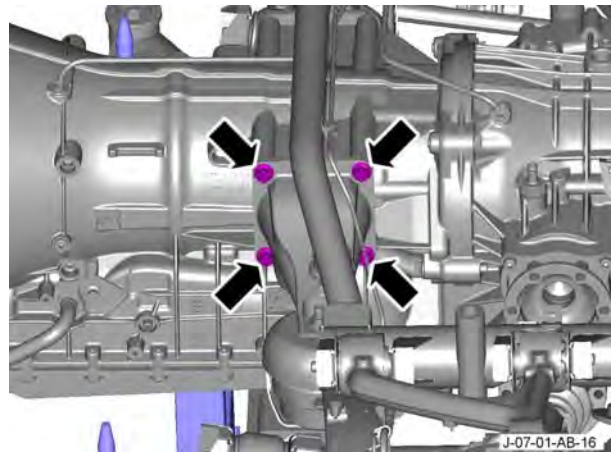
16. Disconnect the outlet hose for the differential oil cooler from the differential.



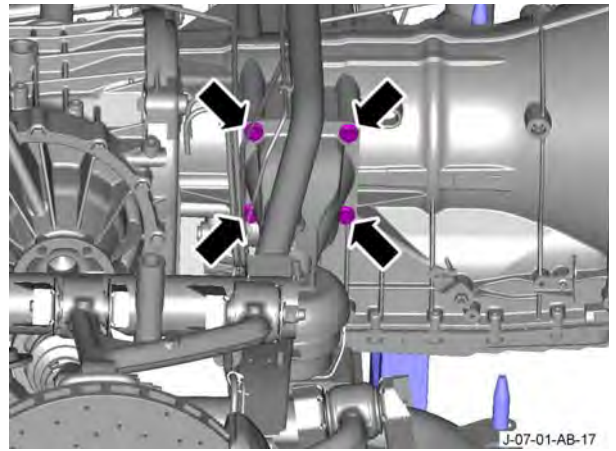
17. **Warning: The aid of one other technician is necessary for the step that follows.**

Put an applicable support below the transmission and differential

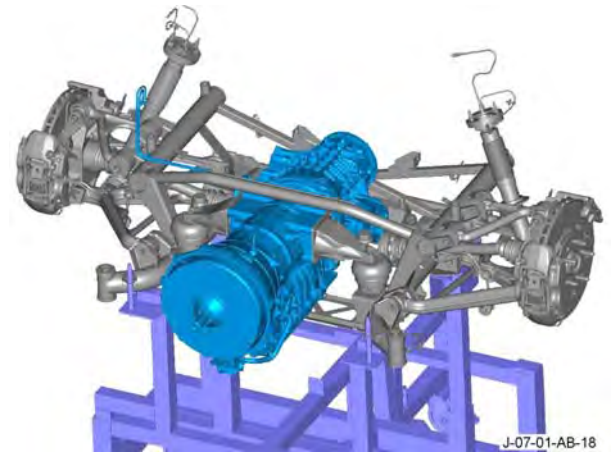
18. Remove the four bolts that attach the left side transmission mount bracket to the transmission.



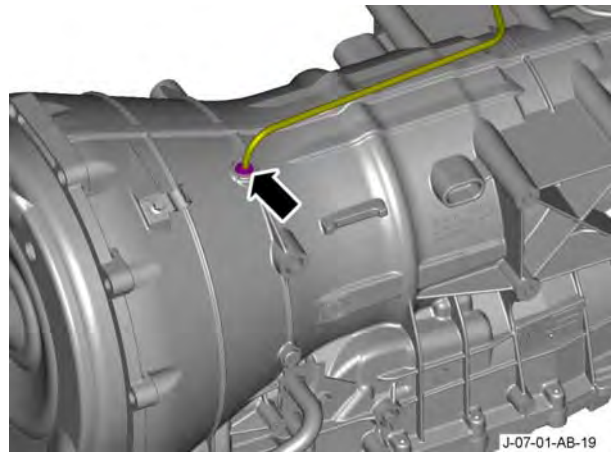
19. Remove the four bolts that attach the right side transmission mount bracket to the transmission.



20. **⚠ Warning: The aid of one other technician is necessary for the step that follows.**
Remove the transmission and differential from the rear subframe.



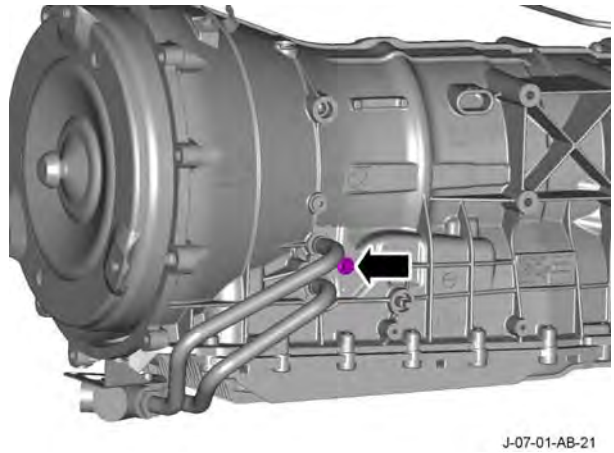
21. Disconnect the breather pipe for the transmission from the transmission.



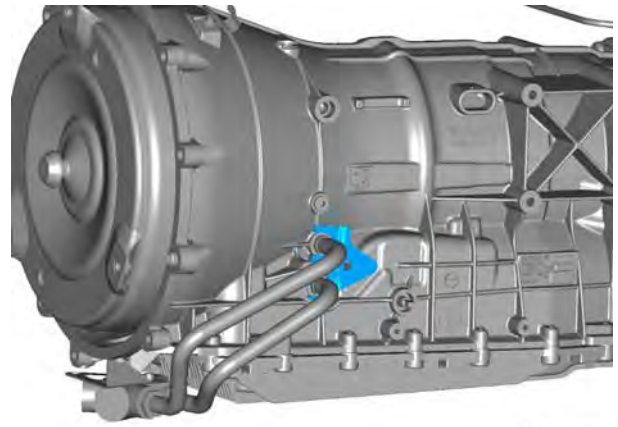
22. Remove the breather pipe for the transmission.



23. Remove the bolt that attaches the clamp plate for the oil cooler pipes to the transmission.

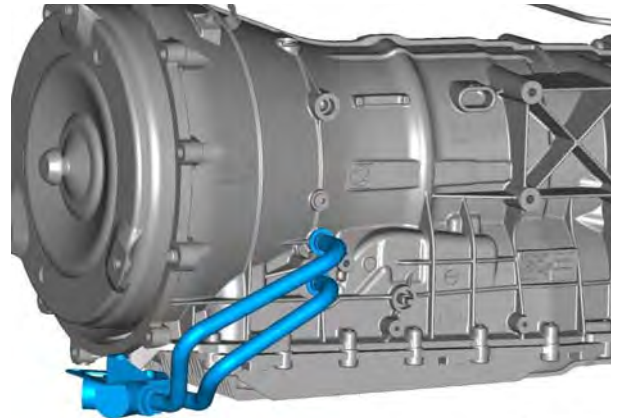


- 24. Remove the clamp plate for the oil cooler pipes.



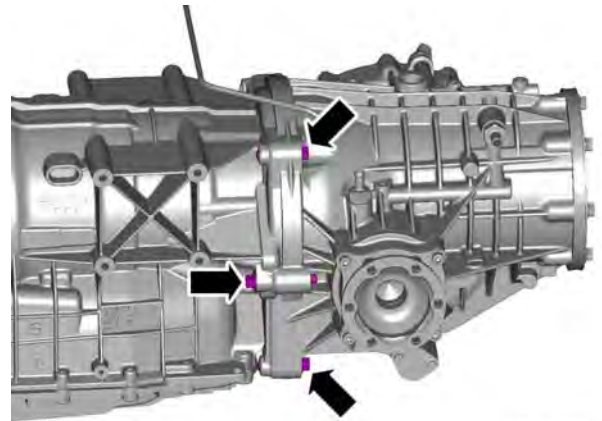
J-07-01-AB-22

- 25. Remove the oil cooler pipes.



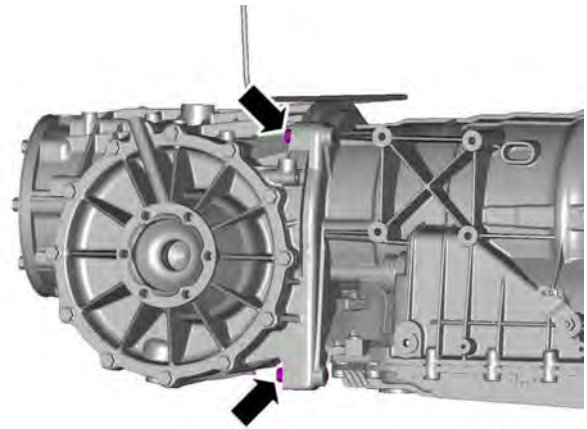
J-07-01-AB-23

- 26. Remove the three bolts that attach the differential to the transmission.



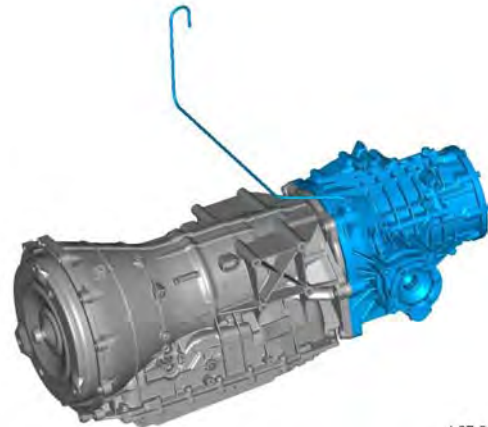
J-07-01-AB-24

27. Remove the two bolts that attach the differential to the transmission.



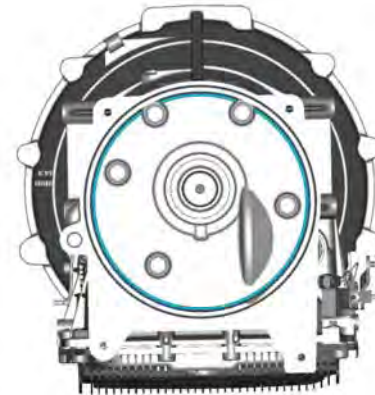
J-07-01-AB-25

28. **⚠ Warning: The aid of one other technician is necessary for the step that follows.**
Remove the differential.



J-07-01-AB-26

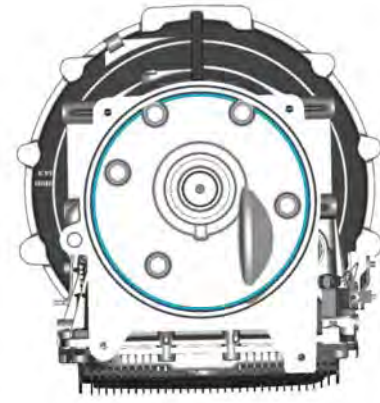
29. Remove and discard the O ring seal on the transmission.



J-07-01-AB-29

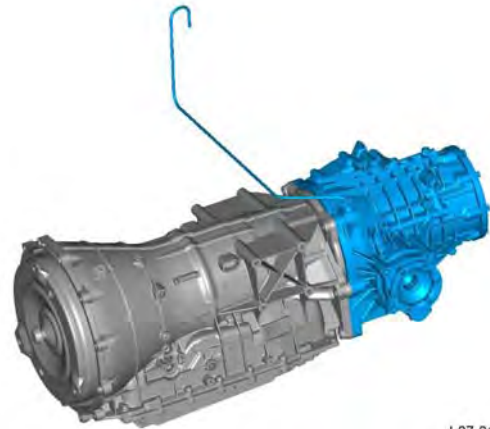
Install

1. Install a new O ring seal on the transmission.



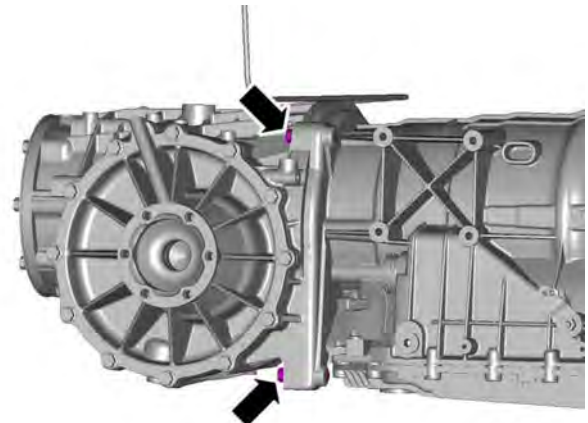
J-07-01-AB-29

2. **⚠ Warning: The aid of one other technician is necessary for the step that follows.**
Install the differential.



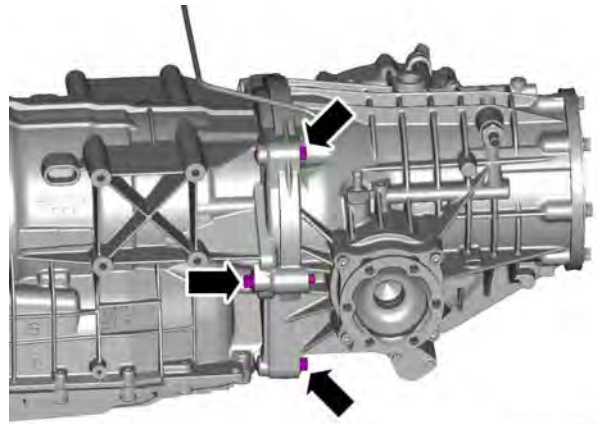
J-07-01-AB-26

3. Install and torque the two bolts that attach the differential to the transmission to 65 Nm.



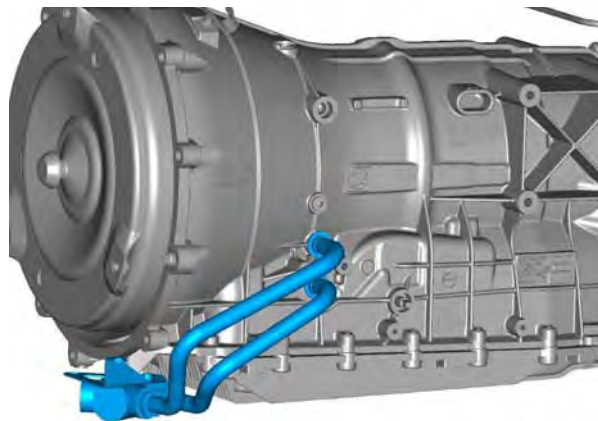
J-07-01-AB-25

4. Install and torque the three bolts that attach the differential to the transmission to 65 Nm.



J-07-01-AB-24

5. Install the oil cooler pipes.



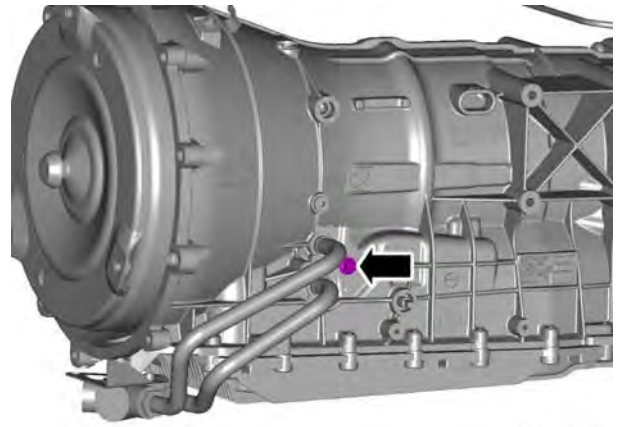
J-07-01-AB-23

6. Install the clamp plate for the oil cooler pipes.



J-07-01-AB-22

7. Install and torque the bolt that attaches the clamp plate for the oil cooler pipes to the transmission to 23 Nm.



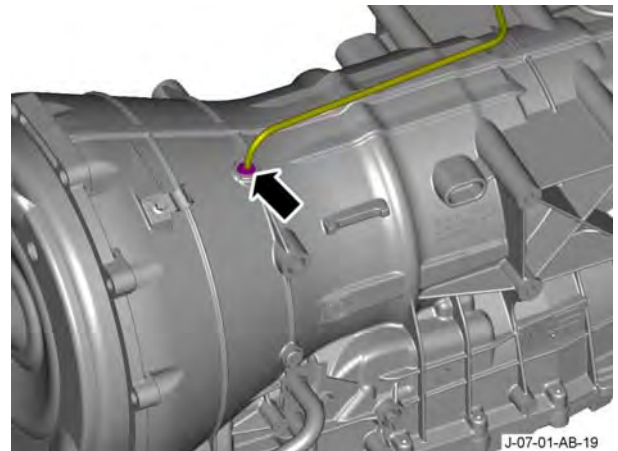
J-07-01-AB-21

8. Install the breather pipe for the transmission.



J-07-01-AB-20

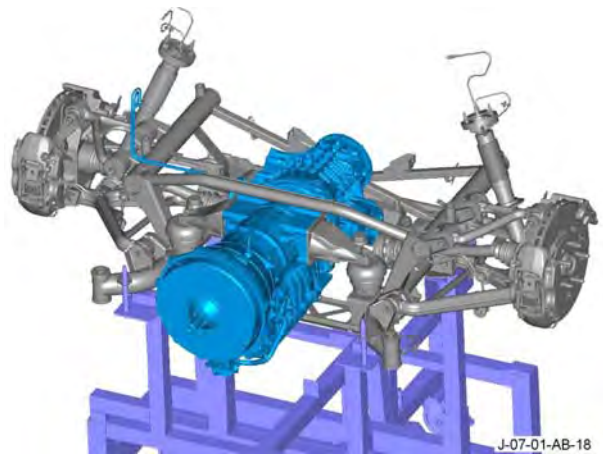
9. Connect the breather pipe for the transmission to the transmission.



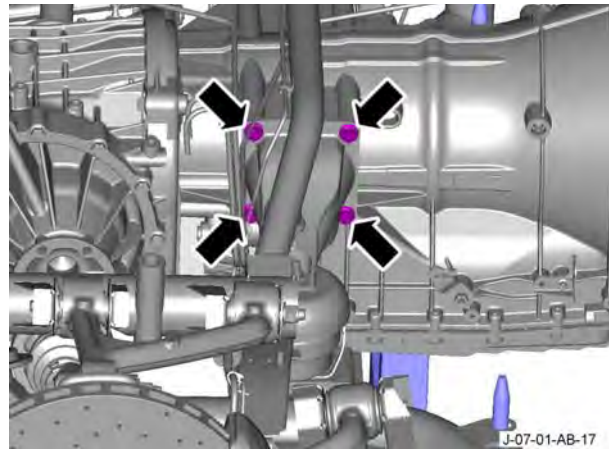
J-07-01-AB-19

10. **⚠ Warning: The aid of one other technician is necessary for the step that follows.**

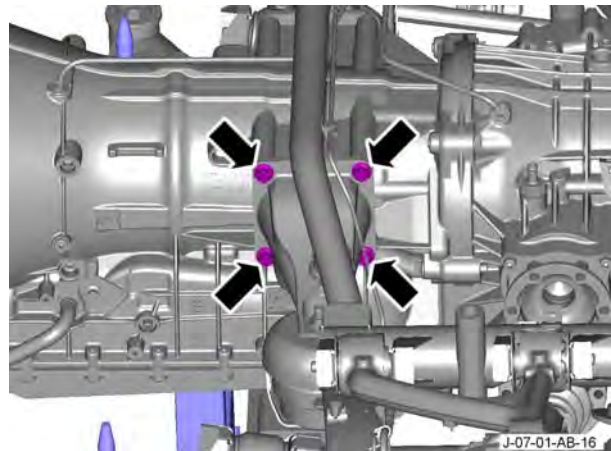
Install the transmission and differential to the rear subframe.



11. Install and torque the four bolts that attach the right side transmission mount bracket to the transmission to 63 Nm.



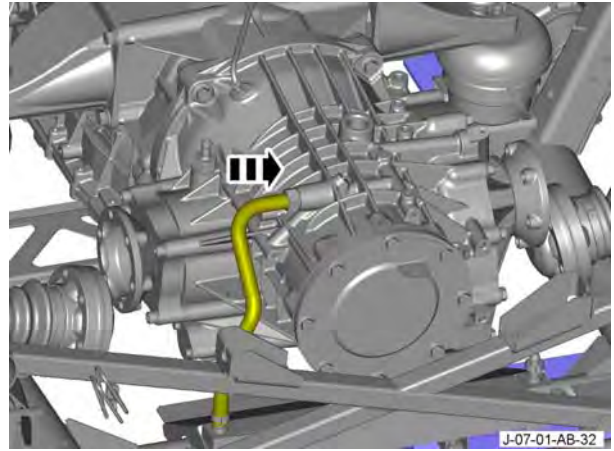
12. Install and torque the four bolts that attach the left side transmission mount bracket to the transmission to 63 Nm.



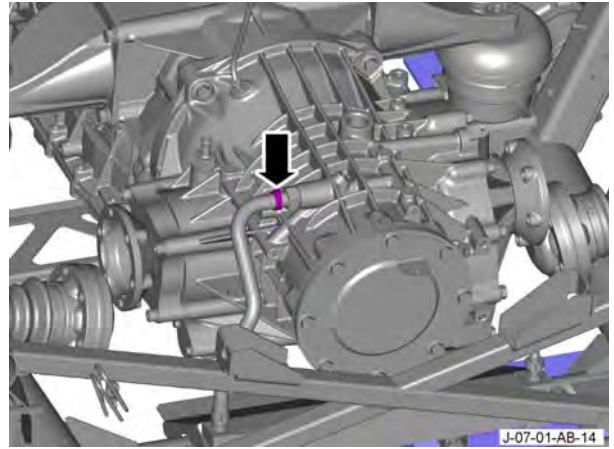
13. **⚠ Warning: The aid of one other technician is necessary for the step that follows.**

Remove the applicable support below the transmission and differential

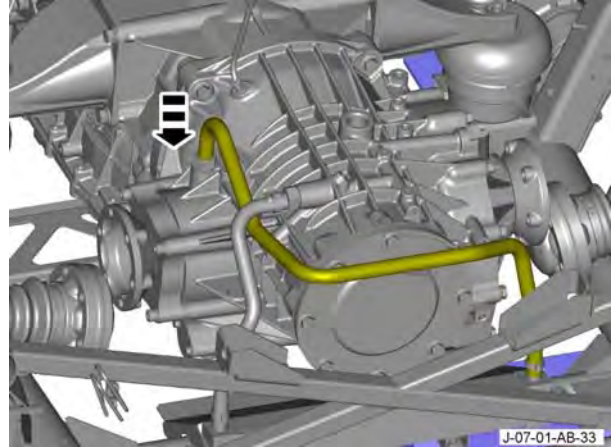
14. Connect the outlet hose for the differential oil cooler to the differential.



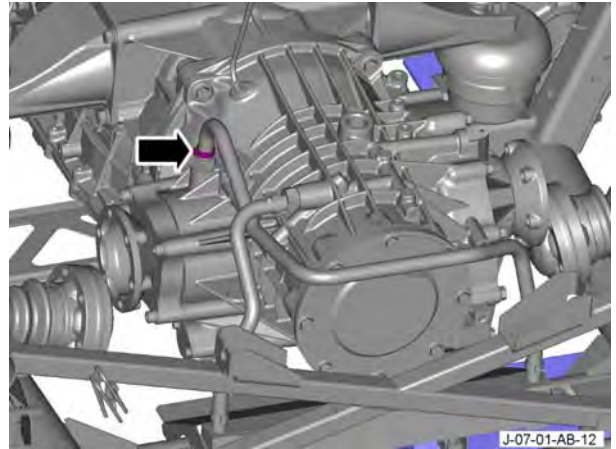
15. Install the clip that attaches the outlet hose for the differential oil cooler to the differential.



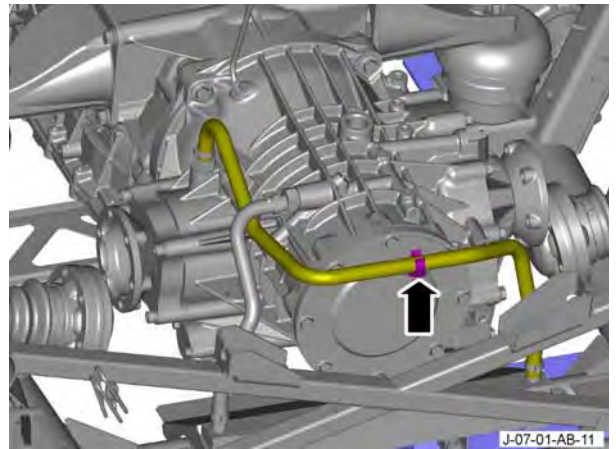
16. Connect the inlet hose for the differential oil cooler to the differential.



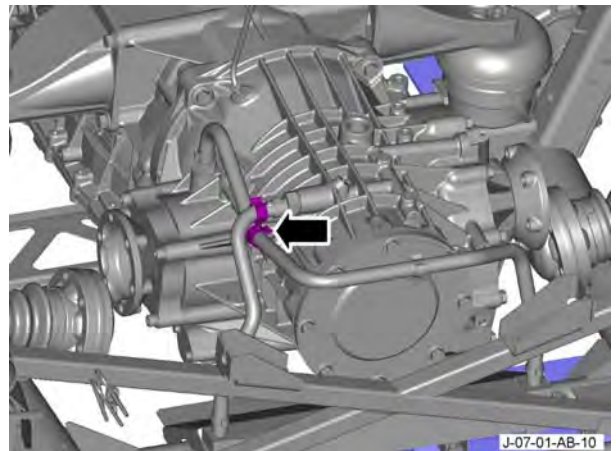
17. Install the clip that attaches the inlet hose for the differential oil cooler to the differential.



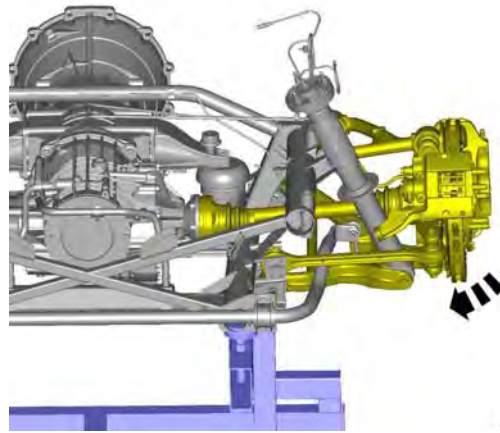
18. Install the inlet hose for the differential oil cooler to the clip that attaches it to the differential.



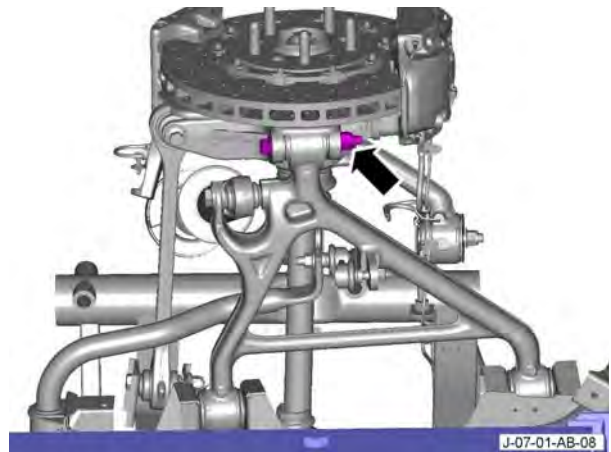
19. Install the clip that attaches the inlet hose for the differential oil cooler to the outlet hose for the differential oil cooler.



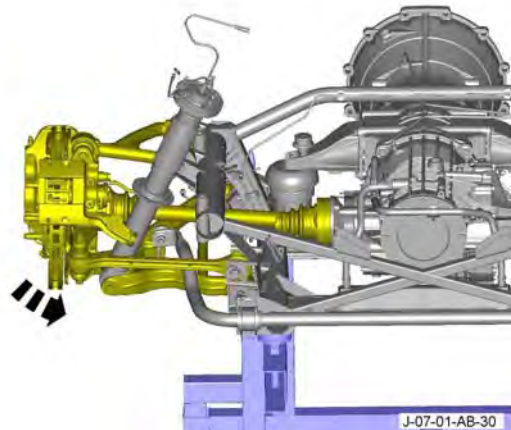
20. Move the right side driveshaft and right side rear knuckle into the correct position.



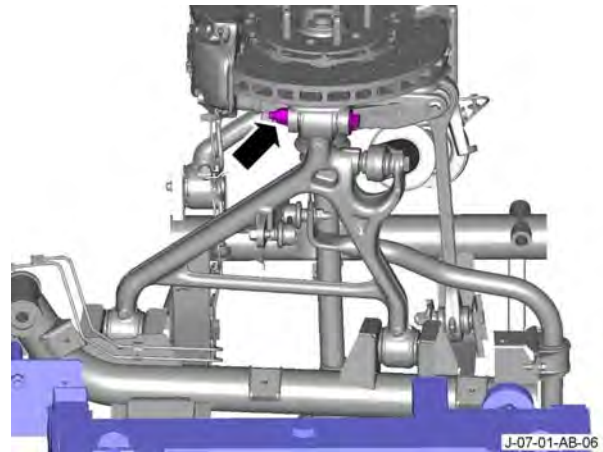
21. Install and torque the nut and bolt that attaches the right side rear suspension bottom arm to the right side rear knuckle to 175 Nm.



22. Move the left side driveshaft and left side rear knuckle into the correct position.

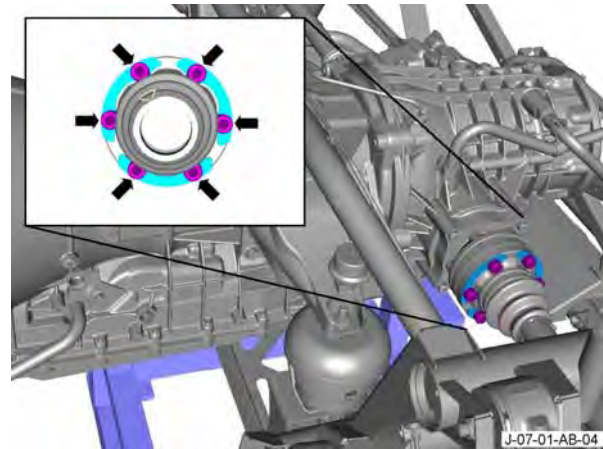


23. Install and torque the nut and bolt that attaches the left side rear suspension bottom arm to the left side rear knuckle to 175 Nm.



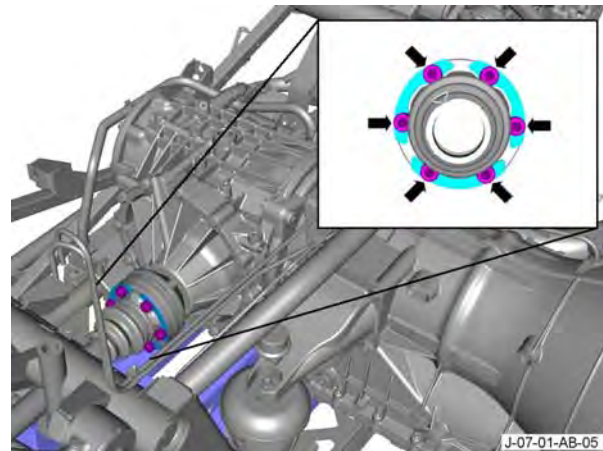
24. **i** Note: Correctly align the driveshaft flange with the marks made on the differential assembly flange in the removal procedure.
- i** Note: Apply thread lock to the new bolts that attach the driveshaft flange to the differential assembly flange.
- i** Note: Install the link plates when you install the Allen bolts.

Install and torque six new Allen bolts that attach the left side driveshaft to the differential to 71 Nm.

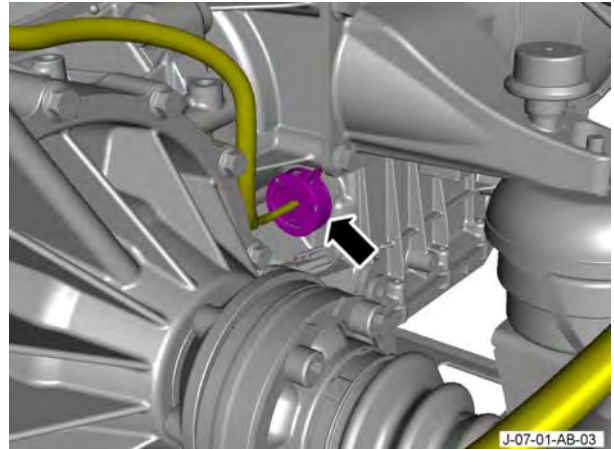


25. **i** Note: Correctly align the driveshaft flange with the marks made on the differential assembly flange in the removal procedure.
- i** Note: Apply thread lock to the new bolts that attach the driveshaft flange to the differential assembly flange.
- i** Note: Install the link plates when you install the Allen bolts.

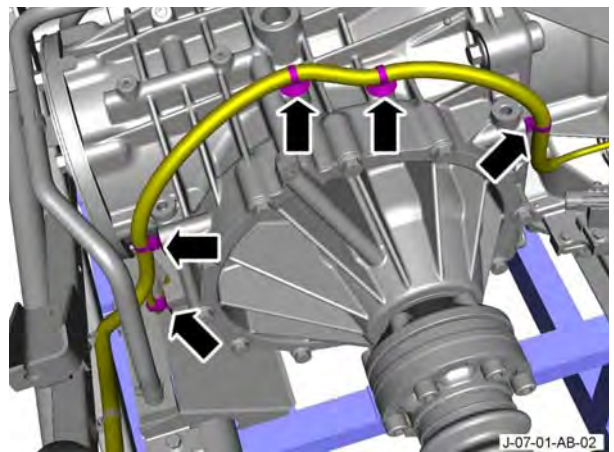
Install and torque six new Allen bolts that attach the right side driveshaft to the differential to 71 Nm.



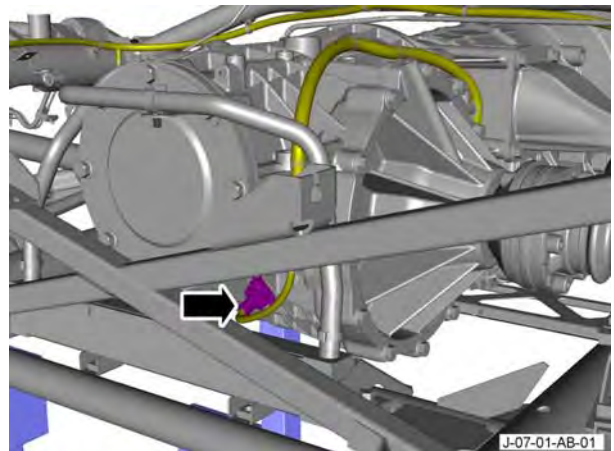
26. Connect the electrical connector to the transmission.



27. Install the wiring harness for the transmission to the five clips that attach it to the differential.



28. Connect the electrical connector to the speed sensor.






29. Install the rear subframe and transmission assembly (02.01.CA - Rear Subframe).
[\[Open Workshop Manual Procedure\]](#)

Published date: 2011-09-30 Procedure last changed: 2015-06-25 16:39:17


Small Normal Large

07.01.BD Transmission Oil (Drain and Refill)

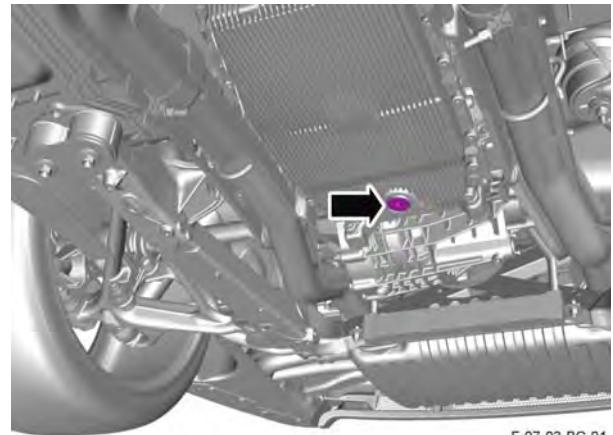
-  WSM Data
-  Included Procedures
-  Is Used In

Drain


1. Remove the rear undertray (01.02.PB - Rear Undertray).
[\[Open Workshop Manual Procedure\]](#)
2. Place an applicable container under the drain plug for the transmission oil.

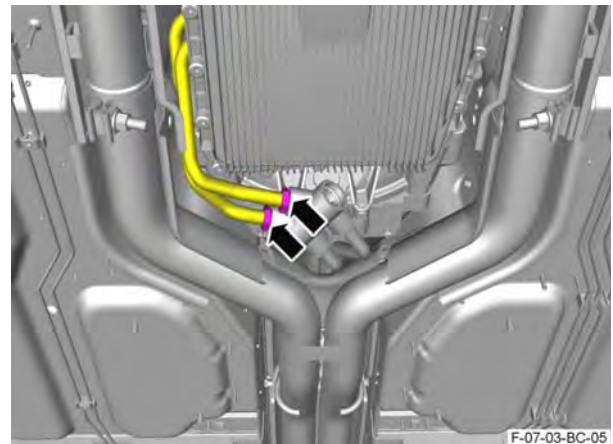
3.  **Caution: Prepare to collect the transmission oil. This will help to prevent damage to the vehicle paintwork.**

Remove the drain plug for the transmission oil.



F-07-03-BC-01

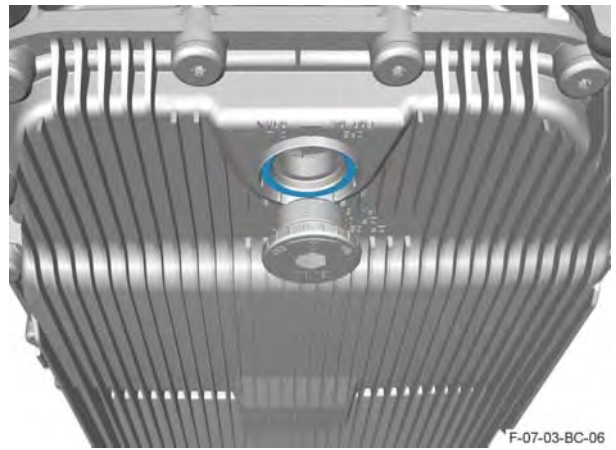
4. Let the oil drain from the transmission.
5.  **Caution: Prepare to collect the transmission oil. This will help to prevent damage to the vehicle paintwork.**
Undo the two unions and disconnect the pipes for the transmission oil cooler from the control thermostat for the transmission oil.



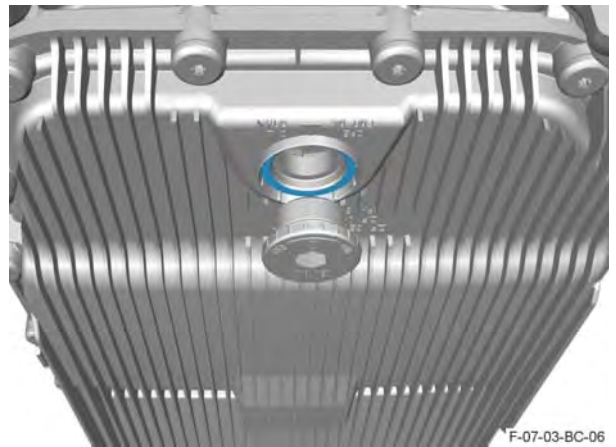
F-07-03-BC-05

6. Let the oil drain from the transmission oil cooler and the pipes for the transmission oil cooler.
7. Install applicable caps to seal the open ports on the pipes for the transmission oil cooler and the oil control thermostat.

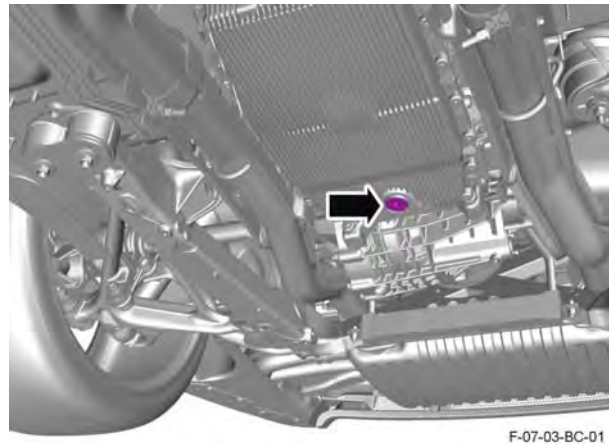
8. Remove and discard the sealing washer from the drain plug for the transmission oil.




9. Make sure that the drain plug for the transmission oil is clean.
10. Install a new sealing washer to the drain plug for the transmission oil.

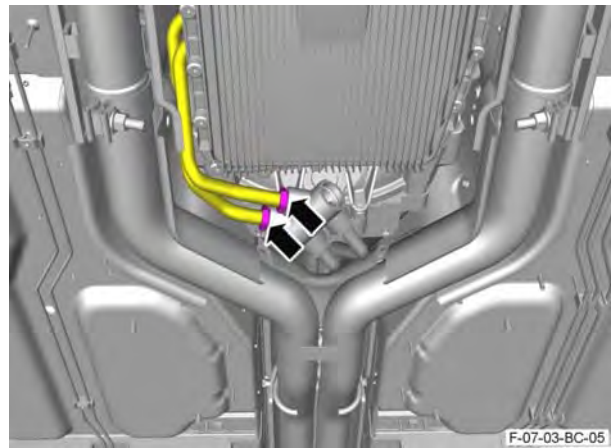


11. Install and torque the drain plug for the transmission oil to 8 Nm.



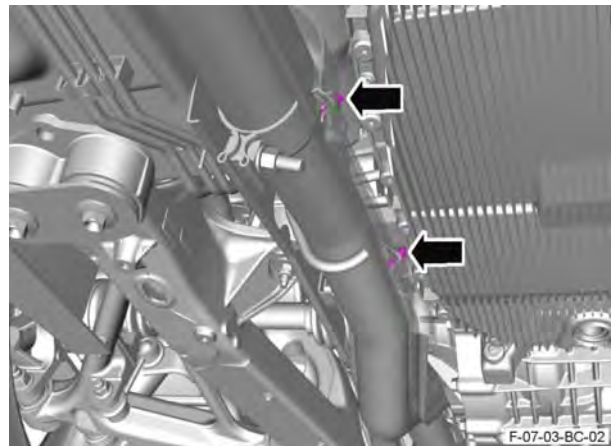
12.  *Note: Remove and discard the caps.*

Install and torque the two unions that attach the oil cooler pipes to the oil control thermostat to 20 Nm.

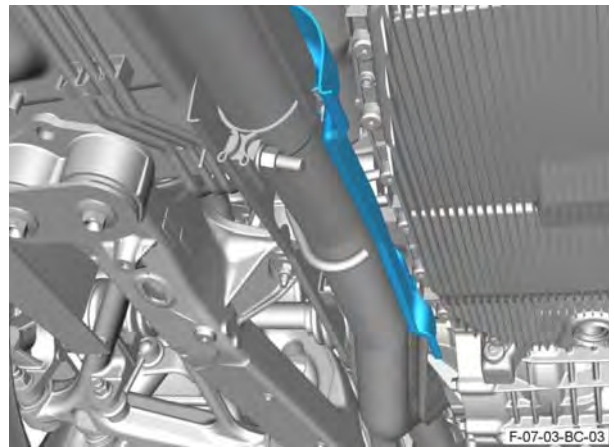



Fill

1. Remove the two bolts that attach the exhaust heat shield to the exhaust.



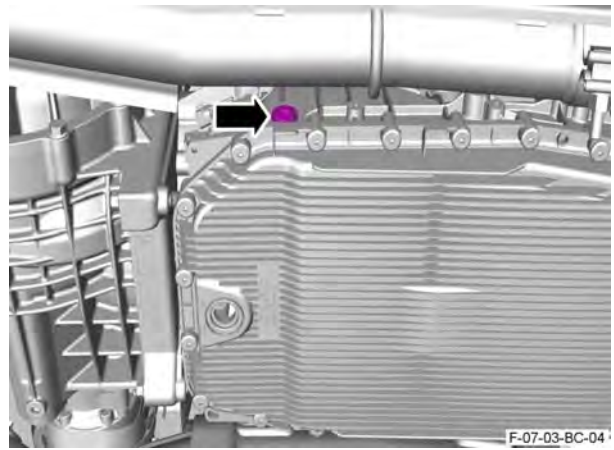
2. Remove the exhaust heat shield.



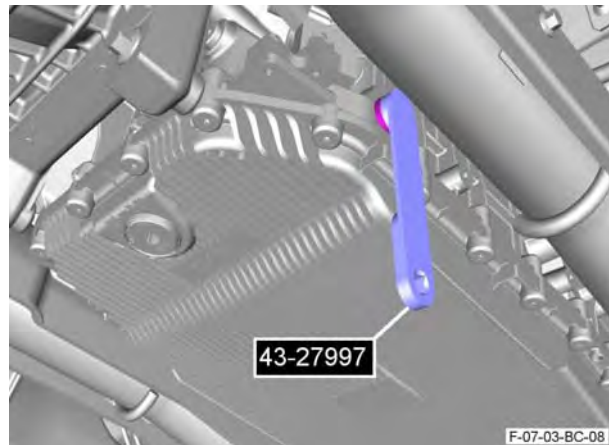
3.  **Warning: The exhaust system will be hot during and after engine operation. Do not touch the exhaust with your skin. If you do, personal injury can occur.**

Put heat resistant material around the exhaust pipe adjacent to the fill plug for the transmission oil.


4. Remove the fill plug for the transmission oil.



5. Fill the transmission with oil until the oil flows from the fill opening.
6. Use the special tool to install the fill plug for the transmission oil.



7. Before you do a check of the transmission oil level, make sure that:
 - The car is on a horizontal ramp. The rear wheels do not move for a minimum of two minutes before you start the oil level check and during the process. The transmission sump temperature is between 30° C and 50° C (86° F and 122° F) when you open the fill plug and while you do a check of the oil level. You have engaged the Reverse and Drive gear positions for a minimum of three seconds with rear wheels braked before you do a check. The Transmission Control Module (TCM) is not in "limp-home" mode.
8. Connect AMDS to the vehicle (00.06.AD - AMDS Operation Check).
[\[Open Workshop Manual Procedure\]](#)

9.  *Note: Make sure that the transmission oil temperature is below 30 °C (86 °F) on the AMDS system.*

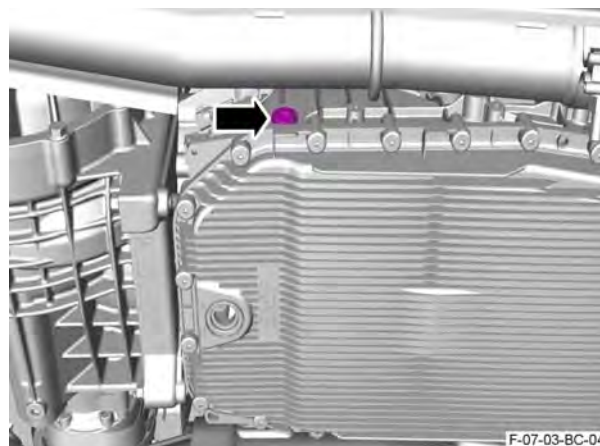
With the engine running and the foot brake applied, circulate the transmission oil by:

- ▶ Operate the transmission to the "R" position. Wait for three seconds. Operate the transmission to the "D" position. Wait for three seconds. Operate the transmission to the "P" position.

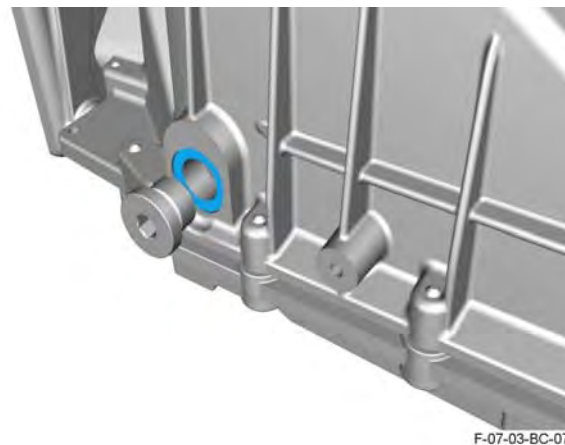
10. Make sure that the transmission is in the "P" position.

11.  **Warning: Make sure that care is taken near rotating parts. Failure to follow this instruction can result in personal injury.**


With the engine running remove the fill plug for the transmission oil.



12. Remove and discard the sealing washer from the fill plug for the transmission oil.



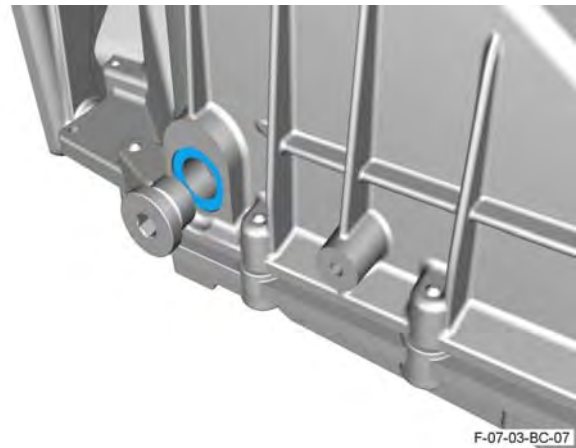
13. If the transmission oil does not come out of the fill opening the oil level is not sufficient. Use a syringe or a similar tool to add transmission oil until it drains out of the fill opening.

14.  *Note: Make sure that the transmission oil temperature does not exceed 50 °C (122 °F). If the transmission oil temperature does exceed 50 °C (122 °F) stop the transmission oil level check and allow the transmission oil to cool until the temperature is below 30 °C (86°F).*

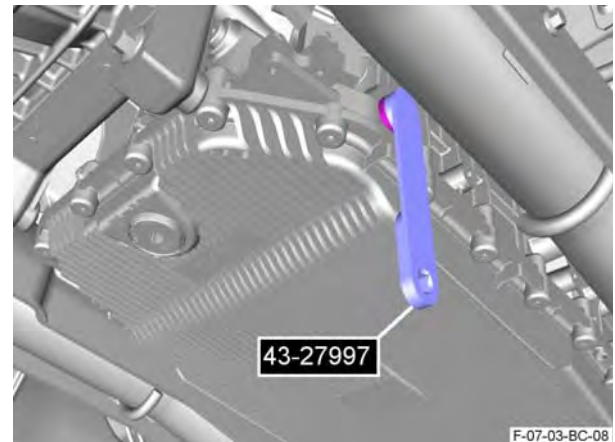
Allow the transmission oil to drain out of the fill opening until the flow almost stops.


15. Make sure that the fill plug for the transmission oil is clean.

16. Install a new sealing washer to the fill plug for the transmission oil.



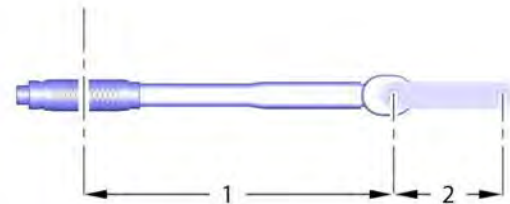
17. Use the special tool to install the fill plug for the transmission oil.



18.  **Caution: Make sure that you do the calculations in metres. Failure to follow this instruction can result in damage to the vehicle.**

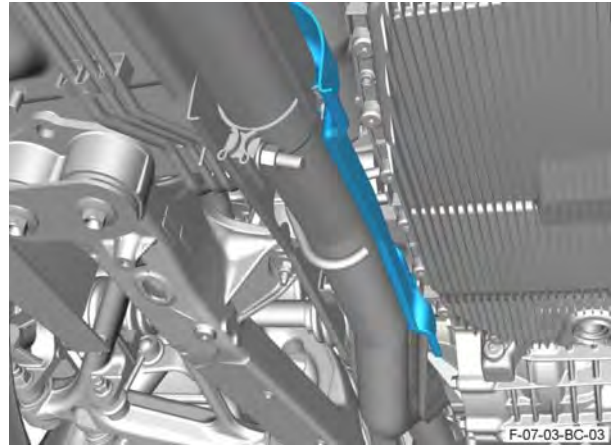
Use the special tool and a torque wrench to torque the fill plug for the transaxle oil to 35 Nm.

- ▶ To make sure that the fill plug for the transmission oil is torqued to the correct specification. Use the special tool and a torque wrench to follow the calculation steps.
- ▶ Step 1. Multiply 35 Nm by measurement (1).
- ▶ Step 2. Add measurement (2) to measurement (1).
- ▶ Step 3. Divide the total of step 1 by the total of step 2.
- ▶ Step 4. Set the torque wrench to the figure calculated in step 3.

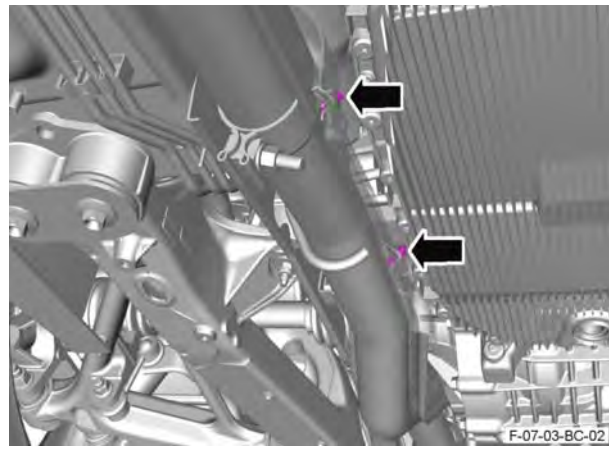


19. Remove the container used to collect the transmission oil.
20. Remove the heat resistant material from the exhaust.

21. Put the exhaust heat shield into position.






22. Install and torque the two bolts that attach the exhaust heat shield to the exhaust to 9 Nm.





23. Install the rear undertray (01.02.PB - Rear Undertray).
[\[Open Workshop Manual Procedure\]](#)
24. Disconnect AMDS from the vehicle (00.06.AD - AMDS Operation Check).
[\[Open Workshop Manual Procedure\]](#)

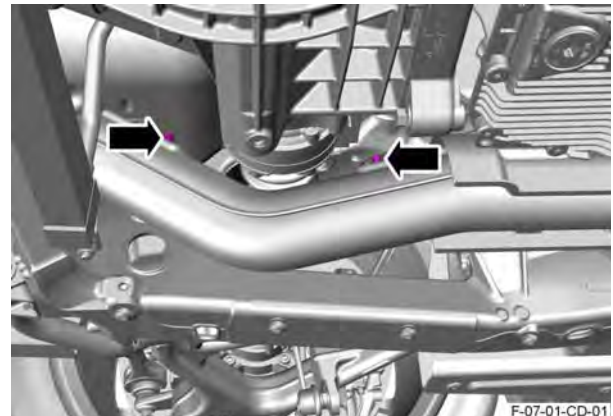
Published date: 2011-05-10 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****07.01.CD Differential Oil (Drain and Refill)**

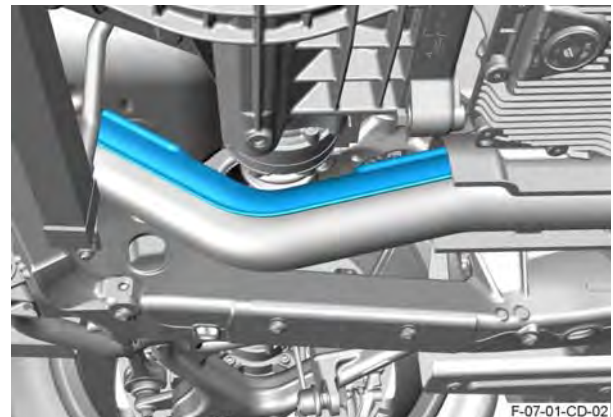
-  WSM Data
-  Included Procedures
-  Is Used In

Drain

1.  **Warning: The oil in the differential will be hot after operation. Let the oil cool before you drain it. If you do not, personal injury can occur.**
 **Warning: The oil in the differential can be harmful. Obey the differential oil manufacturer's safety instructions when you drain and fill the differential.**
2. Remove the rear undertray (01.02.PB - Rear Undertray).
[\[Open Workshop Manual Procedure\]](#)
3. Remove the two bolts that attach the exhaust heat shield to the left side rear exhaust pipe.

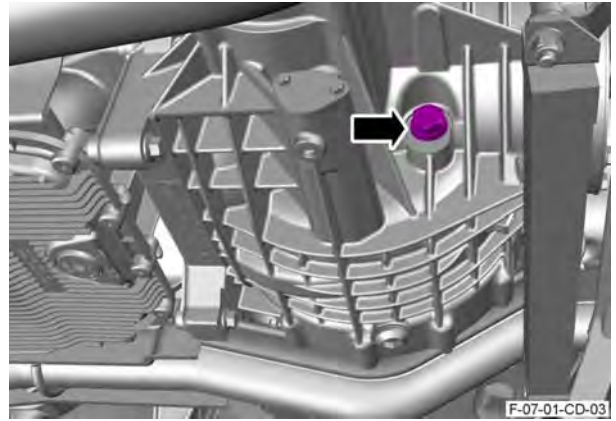


4. Remove the exhaust heat shield.

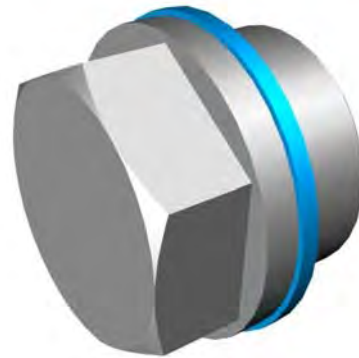


5. Place an applicable container under the drain plug for the differential oil.

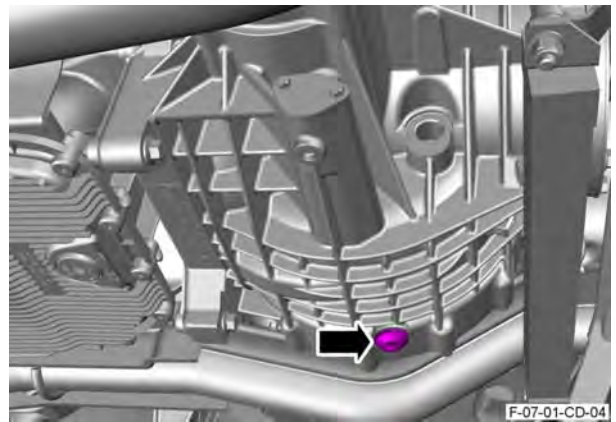
- 6. Remove the fill plug for the differential oil.



- 7. Remove and discard the sealing washer from the fill plug for the differential oil.



- 8. Remove the drain plug for the differential oil.

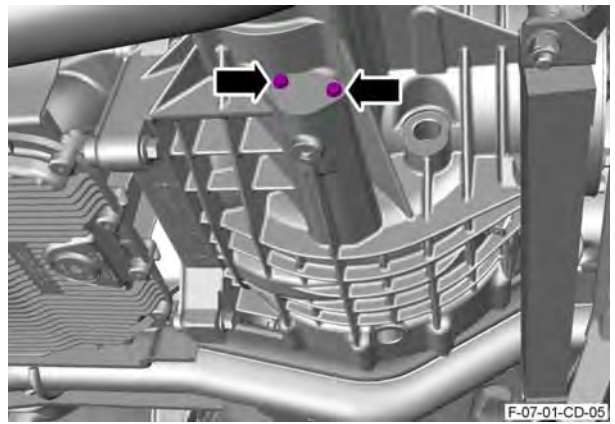


- 9. Remove and discard the sealing washer from the drain plug for the differential oil.

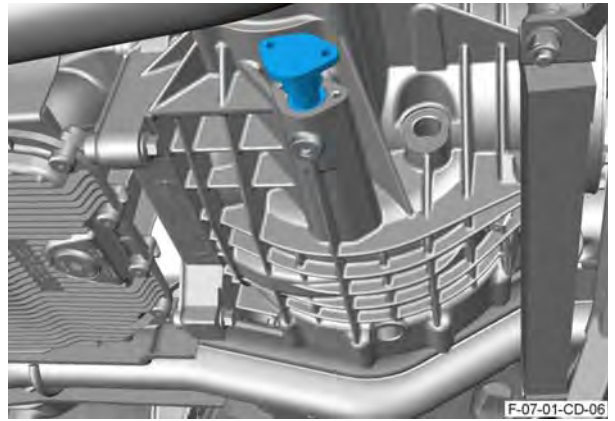


- 10. Let the oil drain from the differential.

11. Remove the two bolts that attach the differential oil filter to the differential assembly.

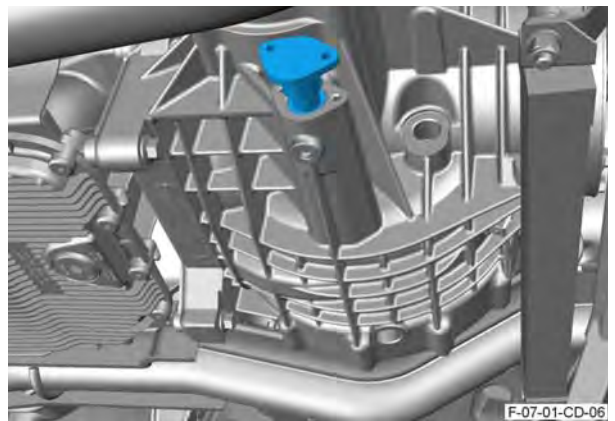


12. Remove the differential oil filter.

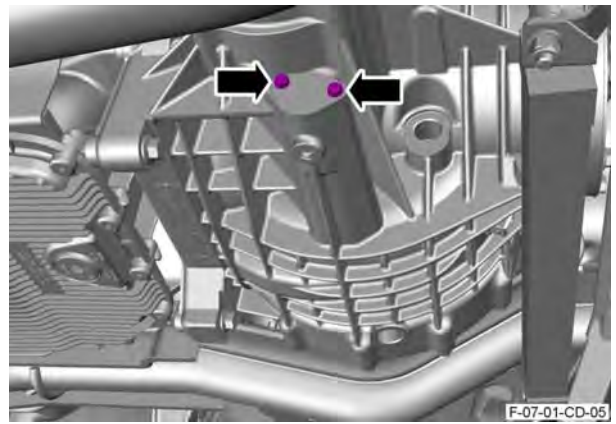


Fill

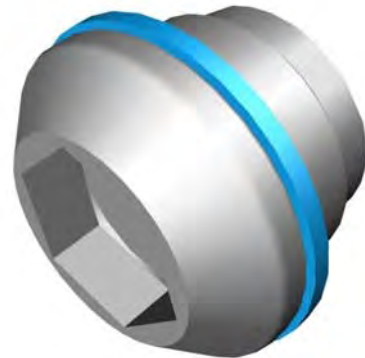
1. Install a new differential oil filter.



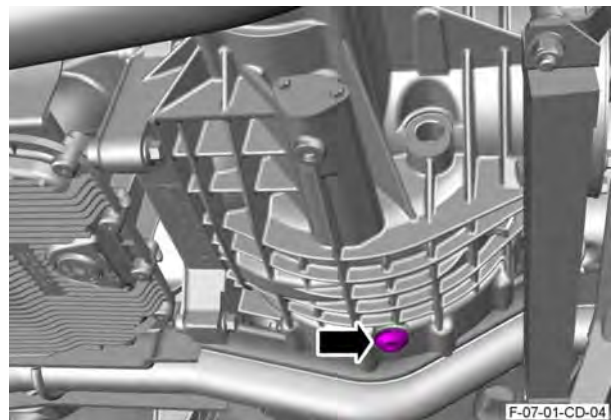
2. Install and torque the two bolts that attach the differential oil filter to the differential assembly to 5 Nm.



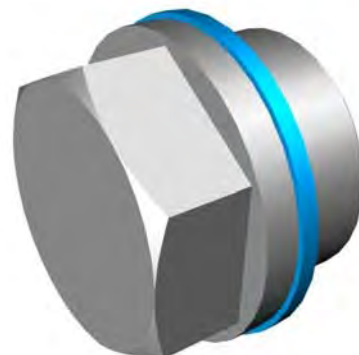
3. Install a new sealing washer to the drain plug for the differential oil.



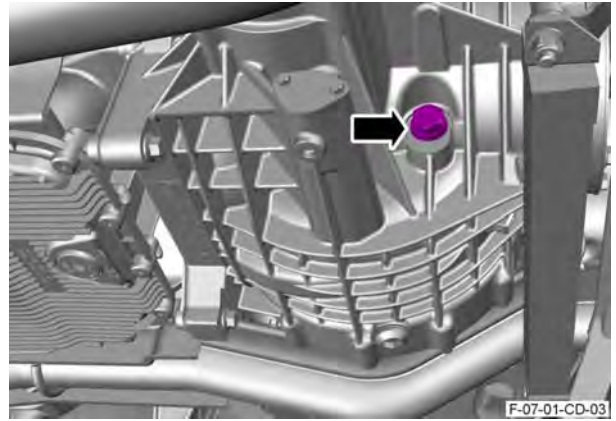
4. Install and torque the drain plug for the differential oil to 49 Nm.



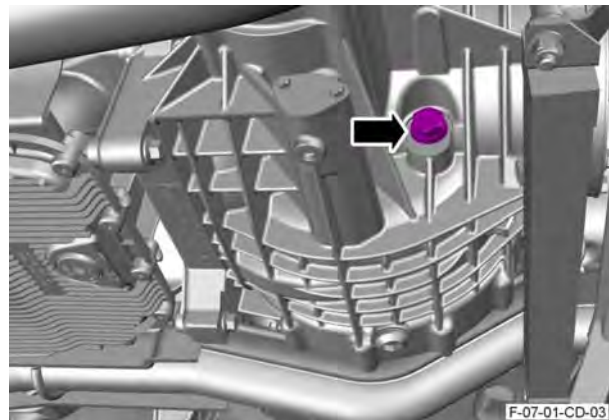
5. Fill the differential with oil until the oil flows from the fill opening.
6. Install a new sealing washer to the fill plug for the differential oil.



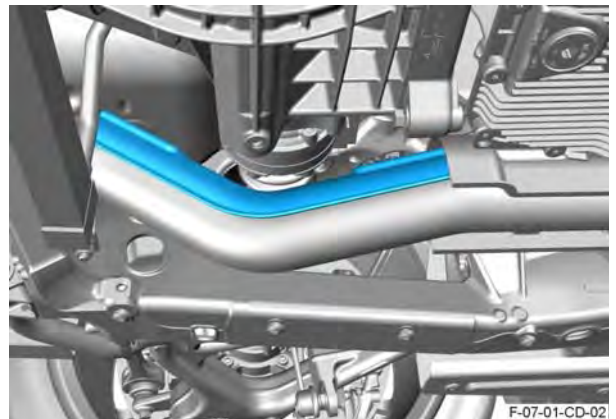
7. Install and torque the fill plug for the differential oil to 49 Nm.



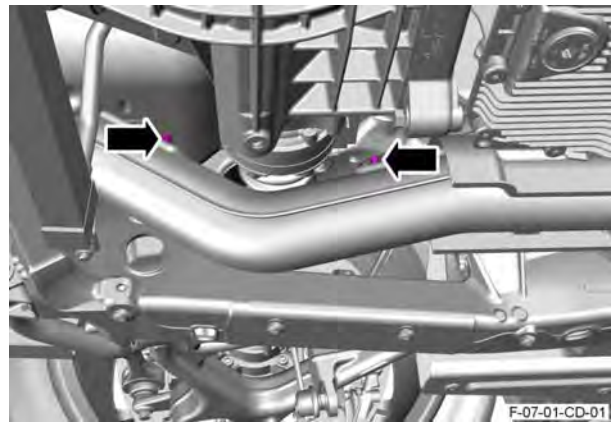
8. Drive the vehicle a short distance to make sure that the differential cooling system has been completely filled.
9. Do a check of the differential oil level (07.01.CF - Differential Oil).
[\[Open Workshop Manual Procedure\]](#)



10. Put the exhaust heat shield into position.



11. Install and torque the two bolts that attach the exhaust heat shield to the left side rear exhaust pipe to 9 Nm.






12. Install the rear undertray (01.02.PB - Rear Undertray).

[\[Open Workshop Manual Procedure\]](#)



Published date: 2011-06-09 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large**

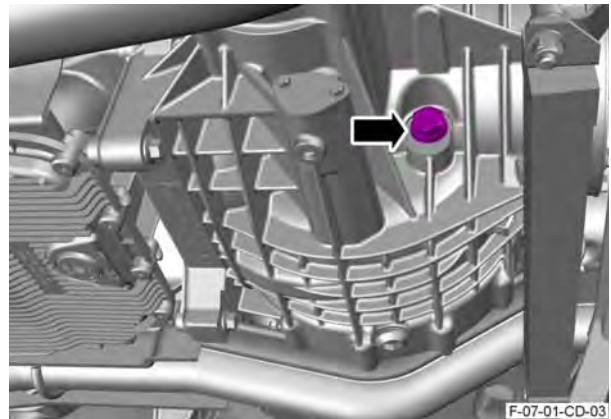
07.01.CF Differential Oil (Check and Top-Up)

-  WSM Data
-  Included Procedures
-  Is Used In

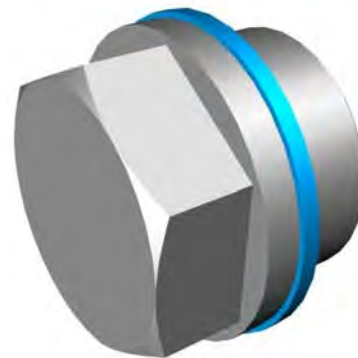
Check

1. Before you do a check of the differential oil level, make sure that the car is on a horizontal ramp. Also make sure that the rear wheels do not move for a minimum of two minutes before you start the oil level check and during the process.
2. Remove the rear undertray (01.02.PB - Rear Undertray).
[\[Open Workshop Manual Procedure\]](#)
3. Place an applicable container under the differential assembly for the differential oil.
4.  **Warning: The oil in the differential will be hot after operation. Let the oil cool before you drain it. If you do not, personal injury can occur.**
 **Warning: The oil in the differential can be harmful. Obey the differential oil manufacturer's safety instructions when you drain and refill the differential.**

Remove the fill plug for the differential oil.



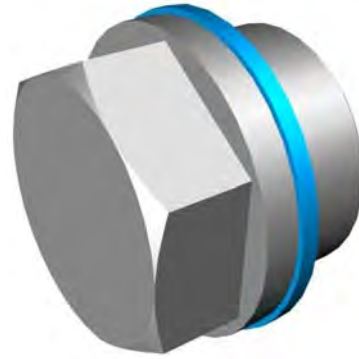
5. Remove and discard the sealing washer from the fill plug for the differential oil.



Fill

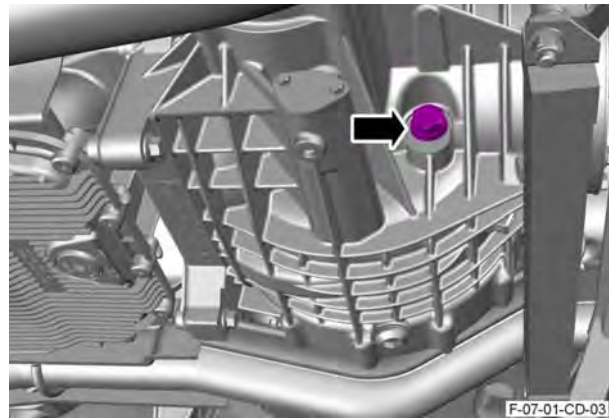
1. If the differential oil does not come out of the fill opening the oil level is not sufficient. Add differential oil to the differential until the oil drains out of the fill opening. Do not add more oil.
2. Allow the differential oil to drain out of the fill opening until the flow almost stops.
3. Make sure that the fill plug for the differential oil is clean.

4. Install a new sealing washer to the fill plug for the differential oil.



F-07-01-CD-07

5. Install and torque the fill plug for the differential oil to 49 Nm.






F-07-01-CD-03

6. Remove the container.
7. Install the rear undertray (01.02.PB - Rear Undertray).

[\[Open Workshop Manual Procedure\]](#)

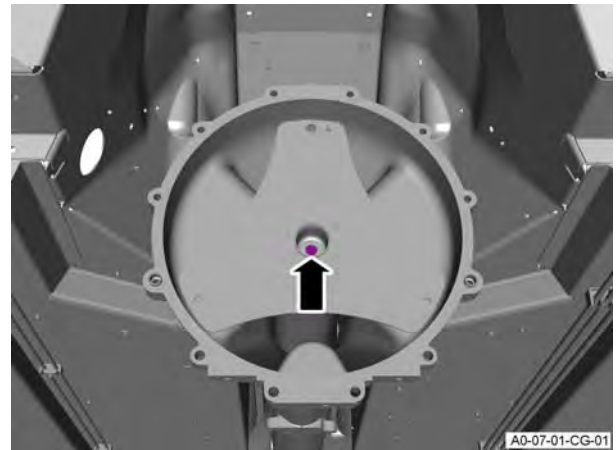
Published date: 2011-06-09 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****07.01.CG Flex Plate for Single Bolt Design (Remove and Install New Part)**

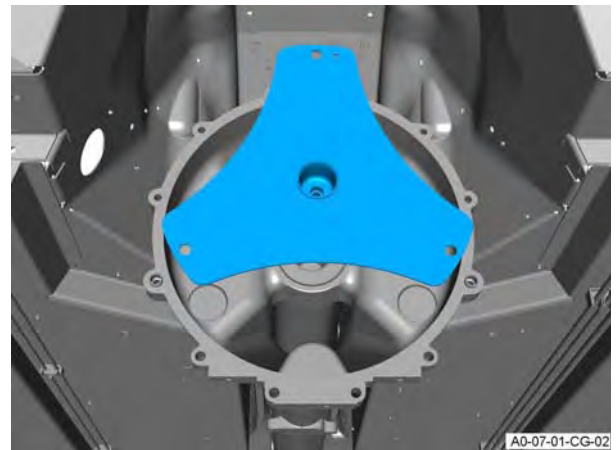
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

1. Remove the rear subframe (02.01.CA - Rear Subframe).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the bolt that attaches the flex plate to the propeller shaft.

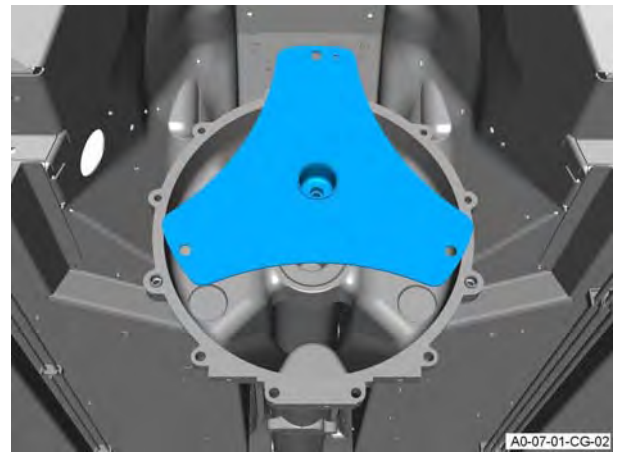


3. Remove the flex plate.

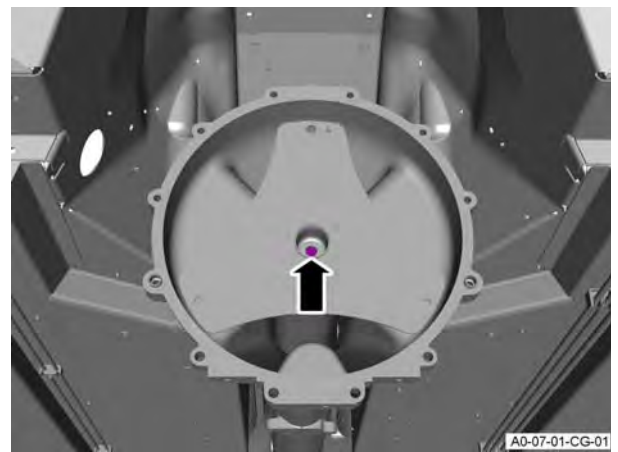


Install

1. Put the flex plate into position.



2. Install and torque the bolt that attaches the flex plate to the propeller shaft to 32 Nm.






3. Install the rear subframe (02.01.CA - Rear Subframe).

[\[Open Workshop Manual Procedure\]](#)

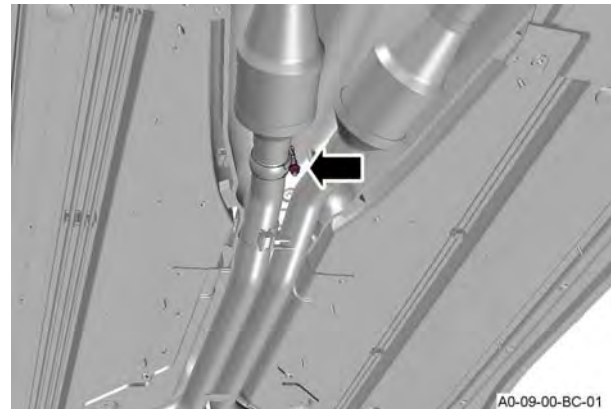
Published date: 2012-12-05 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****09.00.BC Centre Exhaust Pipe (Remove and Install New Part)**

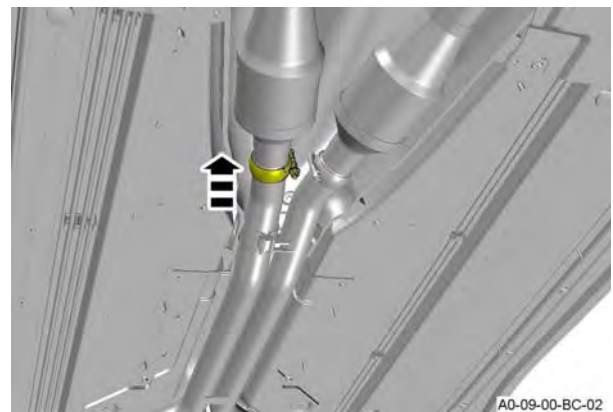
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

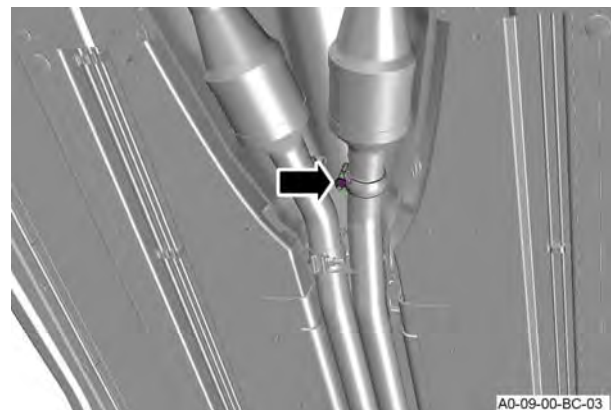
1. Remove the centre undertray (01.02.MB - Centre Undertray).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the two rear exhaust pipes (09.00.KG - Rear Exhaust Pipe - Pair).
[\[Open Workshop Manual Procedure\]](#)
3. Loosen the clamp that attaches the centre exhaust pipe to the right side catalytic converter and pipe assembly.



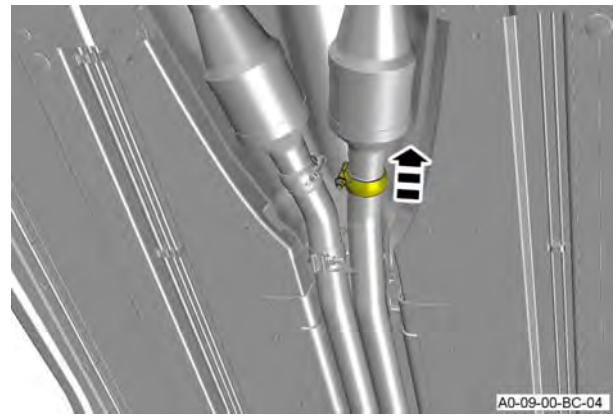
4. Move the exhaust clamp away from the exhaust joint.



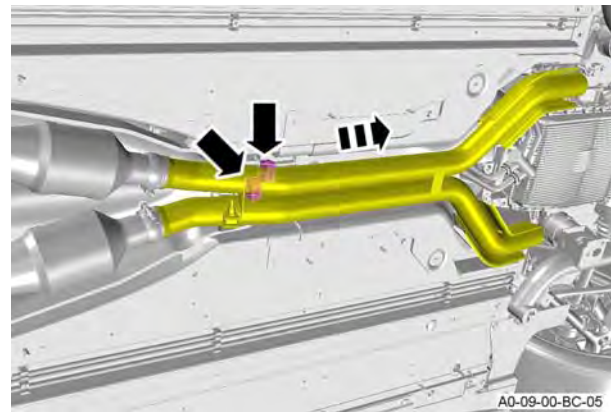
5. Loosen the clamp that attaches the centre exhaust pipe to the left side catalytic converter and pipe assembly.



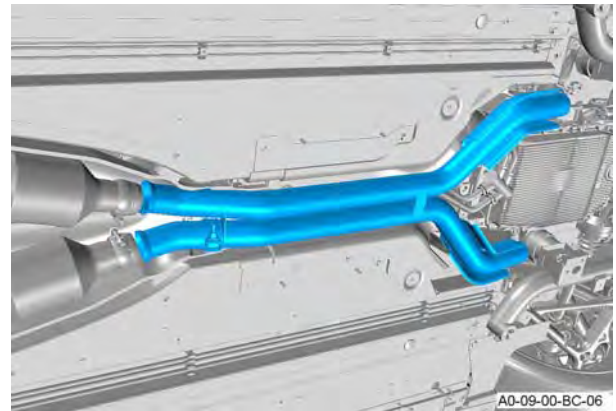
6. Move the exhaust clamp away from the exhaust joint.



7. Release the centre exhaust pipe from the two rubber mounts.



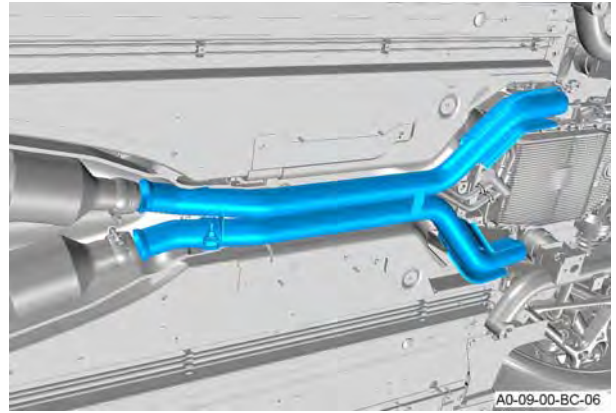
8. Remove the centre exhaust pipe.



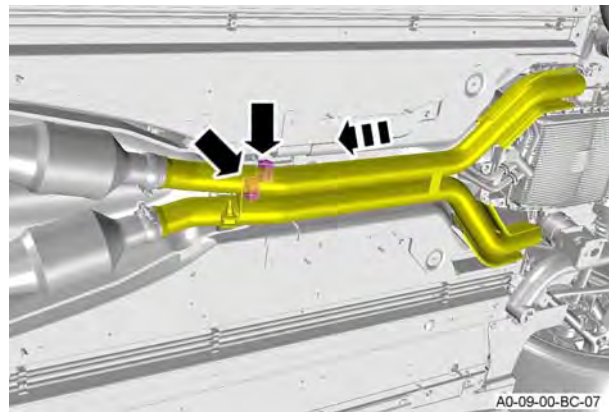
Install

1. Clean the mating faces between the centre exhaust pipe and the catalytic converter and pipe assemblies.

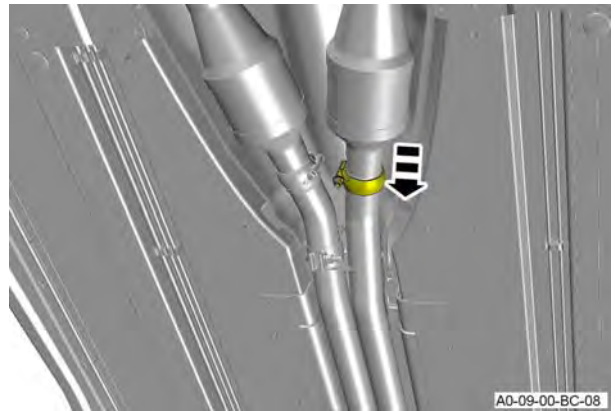
- Put the centre exhaust pipe into position.



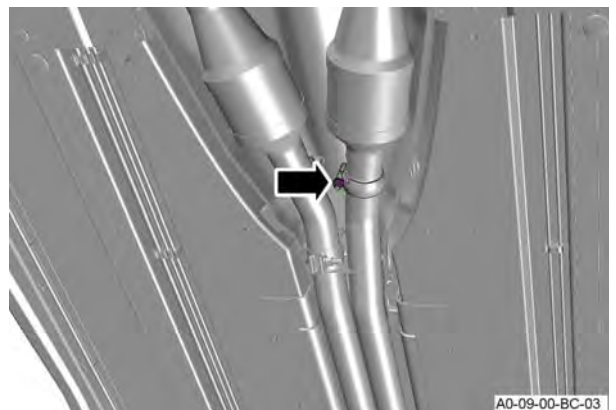
- Install the centre exhaust pipe to the two rubber mounts.



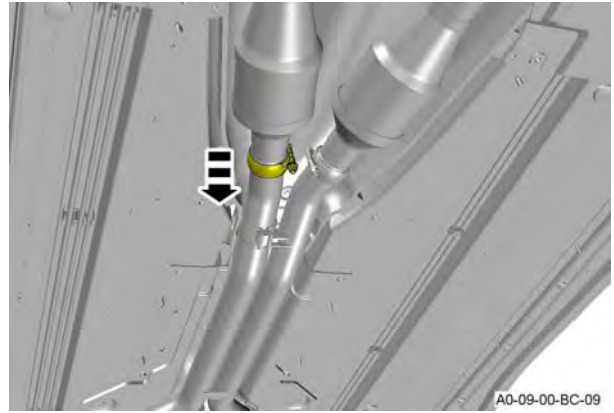
- Move the exhaust clamp into the correct position.



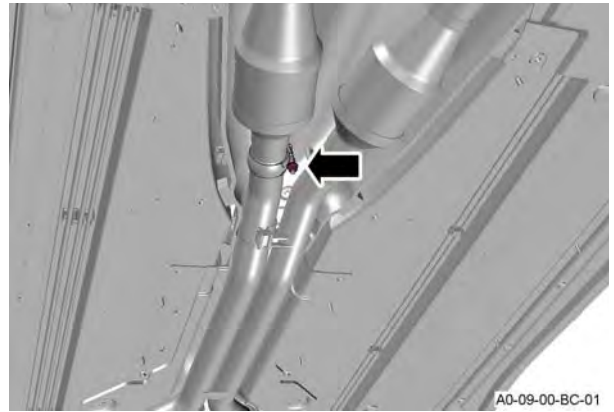
- Torque the clamp that attaches the centre exhaust pipe to the left side catalytic converter and pipe assembly to 21 Nm.



6. Move the exhaust clamp into the correct position.









7. Torque the clamp that attaches the centre exhaust pipe to the right side catalytic converter and pipe assembly to 21 Nm.



8. Install the two rear exhaust pipes (09.00.KG - Rear Exhaust Pipe - Pair).
[\[Open Workshop Manual Procedure\]](#)
9. Install the centre undertray (01.02.MB - Centre Undertray).
[\[Open Workshop Manual Procedure\]](#)

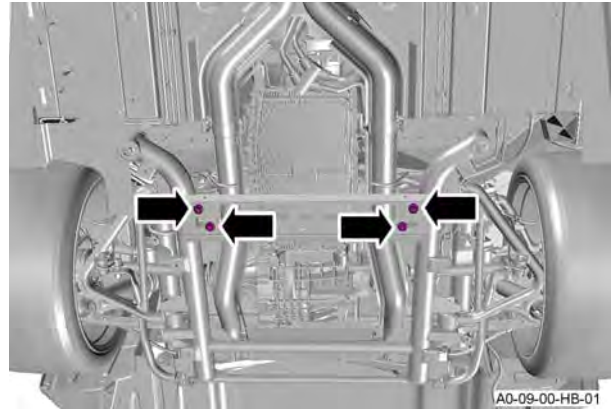
Published date: 2011-05-10 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****09.00.HB Right Side Rear Exhaust Pipe (Remove and Install New Part)**

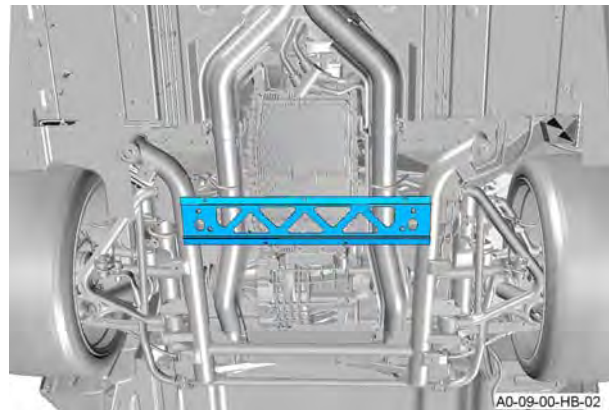
-   WSM Data
-   Included Procedures
-   Is Used In

Removal

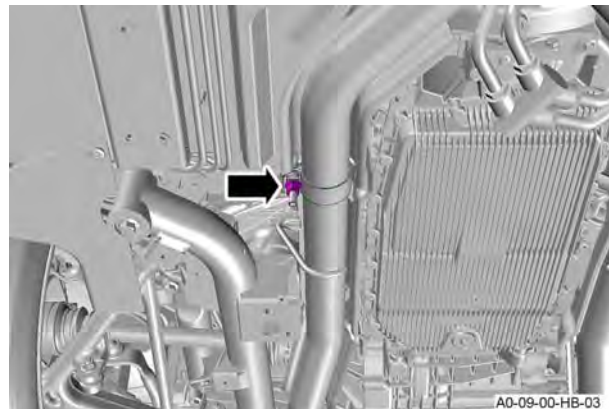
1. Remove the muffler and bypass valve assembly (09.00.KA - Muffler and Bypass Valve Assembly).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the four bolts that attach the cross brace to the rear subframe.



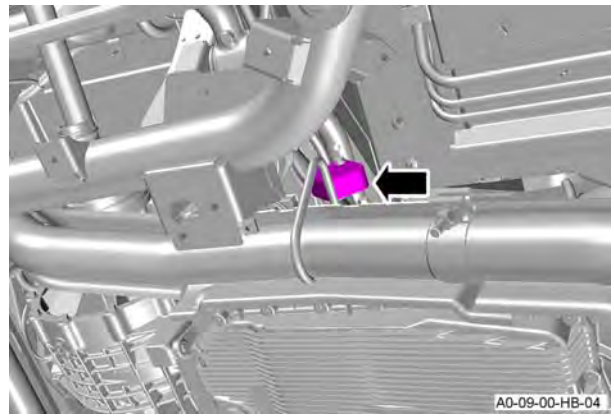
3. Remove the cross brace.



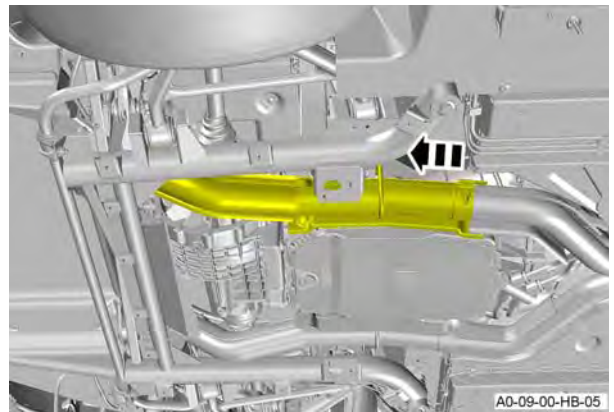
4. Loosen the clamp that attaches the right side rear exhaust pipe to the centre exhaust pipe.



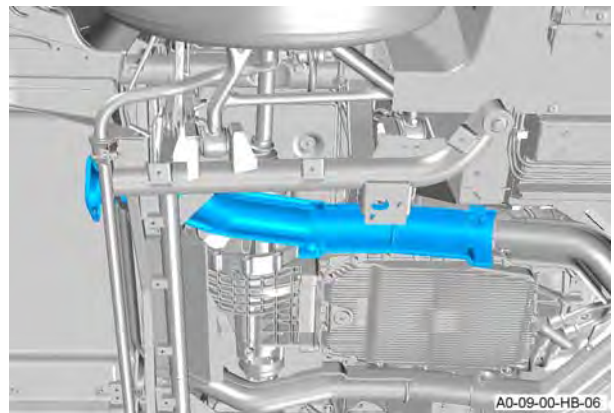
5. Release the right side rear exhaust pipe from the rubber mount.



6. Release the right side rear exhaust pipe from the centre exhaust pipe.

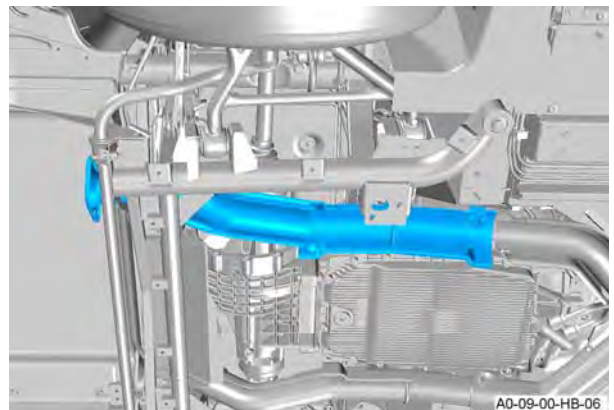


7. Remove the right side rear exhaust pipe.

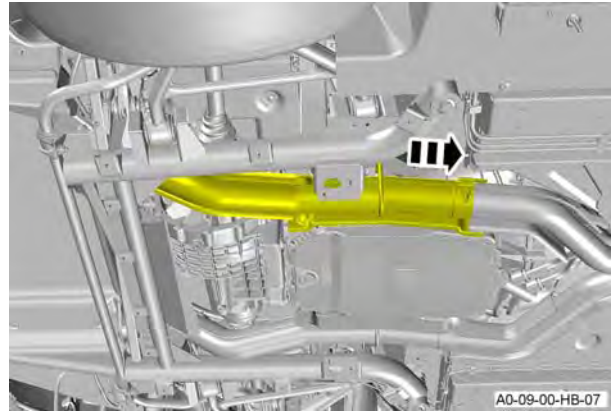


Install

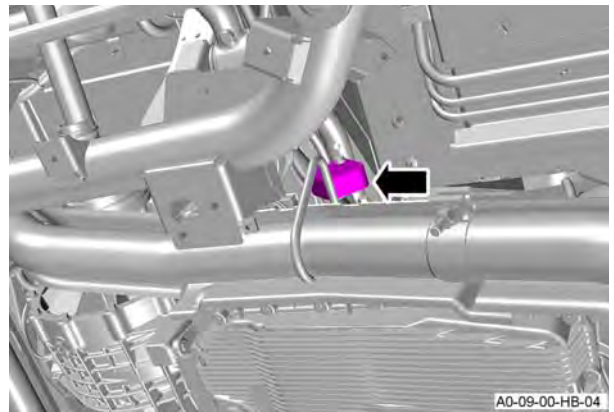
1. Put the right side rear exhaust pipe into position.



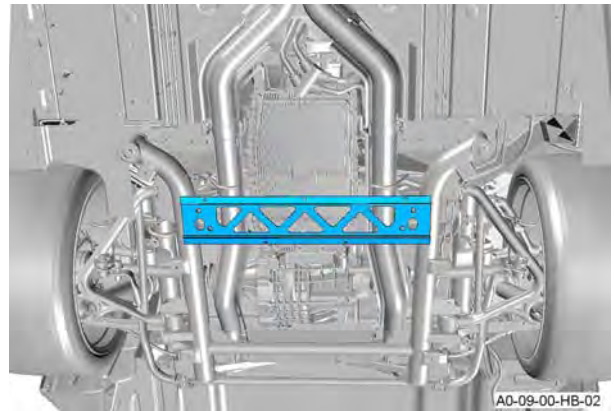
2. Install the right side rear exhaust pipe to the centre exhaust pipe.



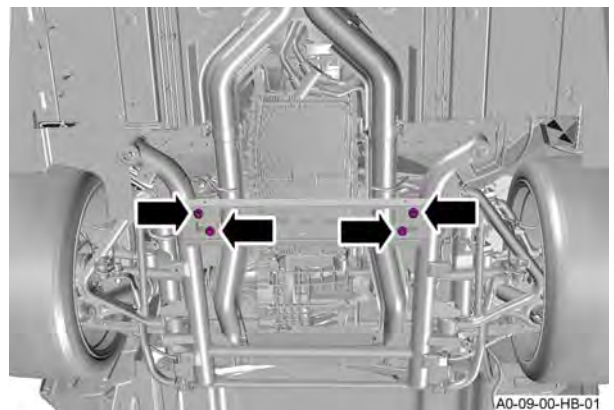
3. Install the right side rear exhaust pipe to the rubber mount.



4. Install the cross brace.

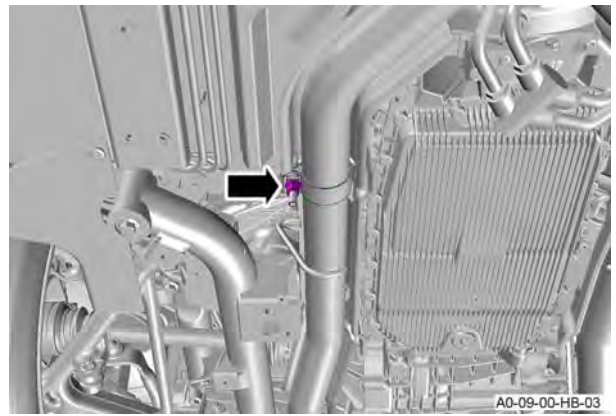


5. Install and torque the four bolts that attach the cross brace to the rear subframe to 71 Nm.



6. Install the muffler and bypass valve assembly (09.00.KA - Muffler and Bypass Valve Assembly).
[\[Open Workshop Manual Procedure\]](#)




7. Torque the clamp that attaches the right side rear exhaust pipe to the centre exhaust pipe to 45 Nm.




Published date: 2011-05-09 Procedure last changed: 2015-06-25 16:39:17

Small Normal Large

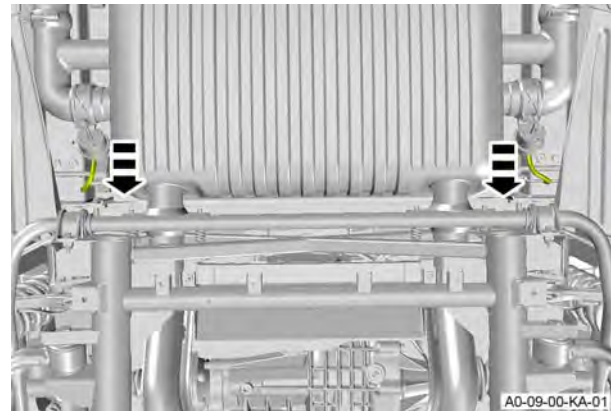
09.00.KA Muffler and Bypass Valve Assembly (Remove for Access and Install)

-  WSM Data
-  Included Procedures
-  Is Used In

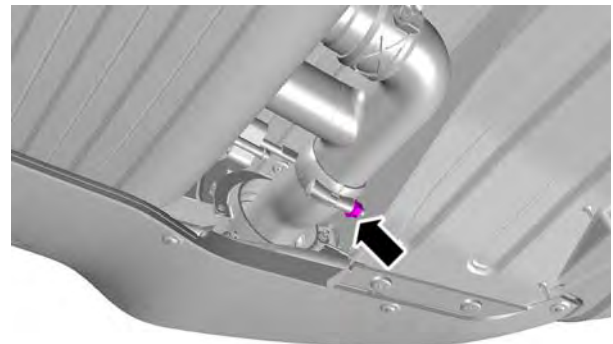
Remove for Access

1. Remove the rear undertray (01.02.PB - Rear Undertray).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the rear left side wheel-arch liner (01.02.JB - Rear Left Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)
3.  **Warning: The exhaust system will be hot during and after operation of the engine. Let the exhaust system cool for one hour before you do work. If you do not, personal injury can occur.**

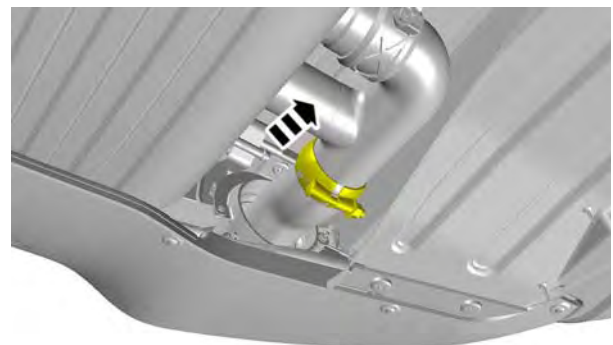
Disconnect the vacuum lines from the exhaust muffler bypass valves.



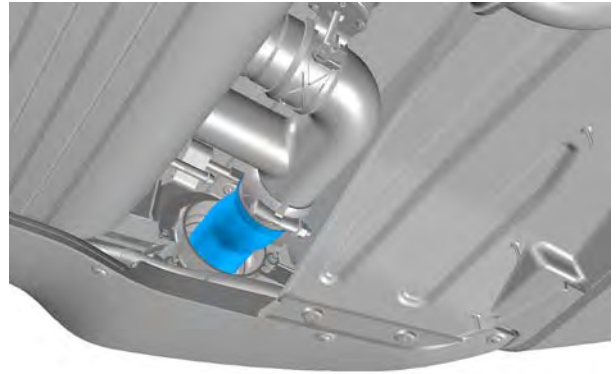
4. Loosen the clamp that attaches the left side exhaust outlet stub to the muffler and bypass valve assembly.



5. Move the exhaust clamp away from the exhaust joint.

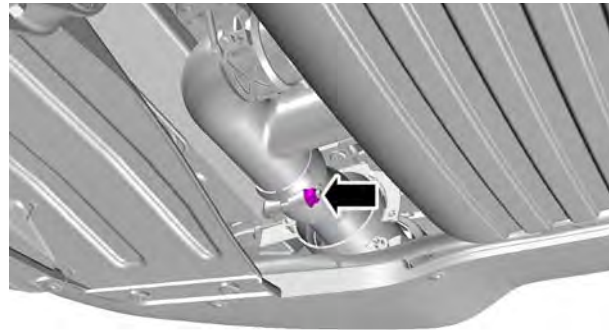


6. Remove the left side exhaust outlet stub.



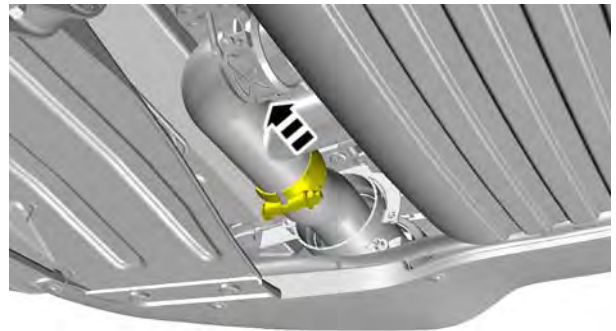
A0-09-00-KA-04

7. Loosen the clamp that attaches the right side exhaust outlet stub to the muffler and bypass valve assembly.



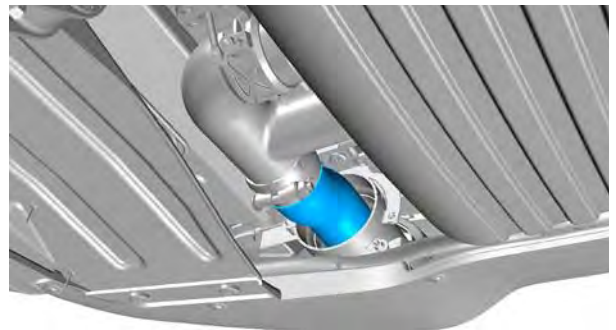
A0-09-00-AK-05

8. Move the exhaust clamp away from the exhaust joint.



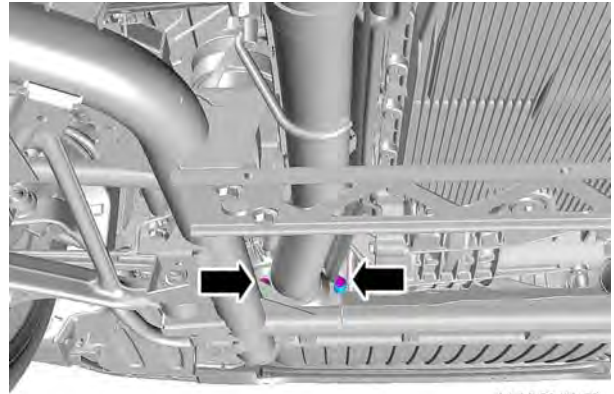
A0-09-00-KA-06

9. Remove the right side exhaust outlet stub.



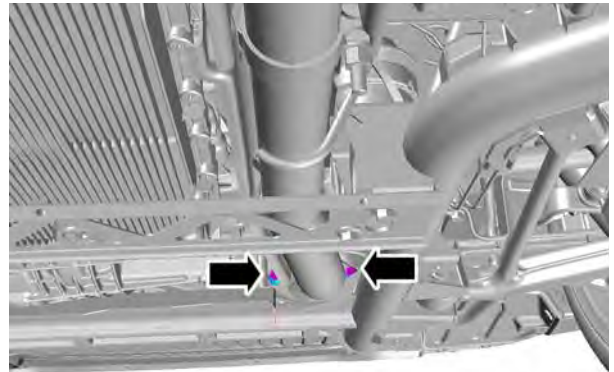
A0-09-00-KA-07

10. Remove the two bolts and collect the two springs that attach the muffler and bypass valve assembly to the right side rear exhaust pipe.



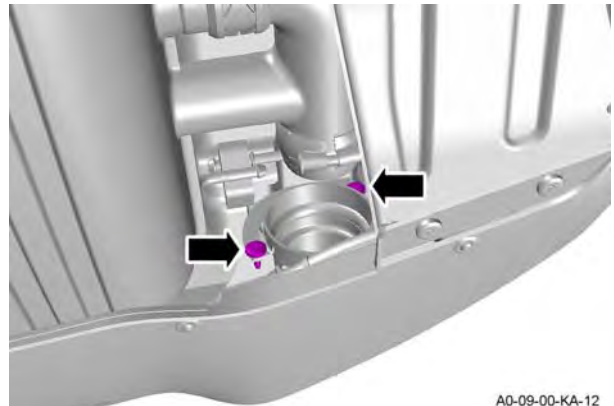
A0-09-00-KA-08

11. Remove the two bolts and collect the two springs that attach the muffler and bypass valve assembly to the left side rear exhaust pipe.



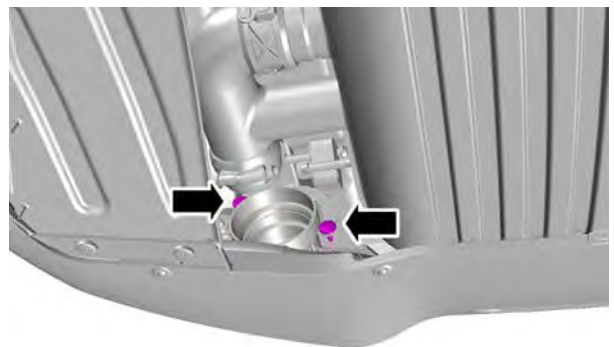
A0-09-00-KA-09

12. Remove the two Torx screws that attach the left side exhaust finisher to the mounting bracket for the muffler and bypass valve assembly.



A0-09-00-KA-12

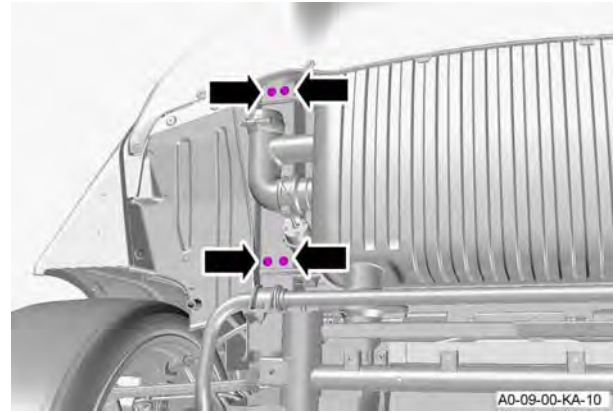
13. Remove the two Torx screws that attach the right side exhaust finisher to the mounting bracket for the muffler and bypass valve assembly.



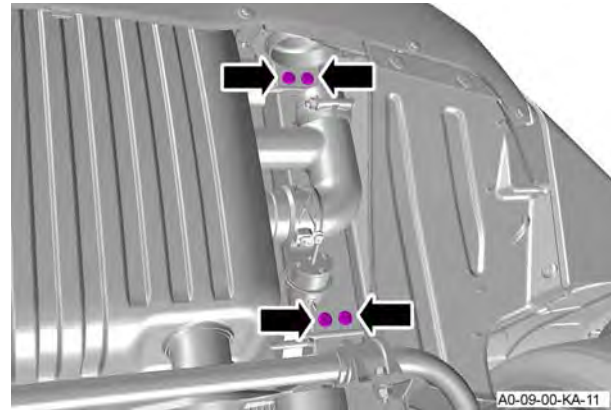
A0-09-00-KA-13

14. Put an applicable support below the muffler.

15. Remove the four Torx screws that attach the left side mounts for the muffler and bypass valve assembly to the body.

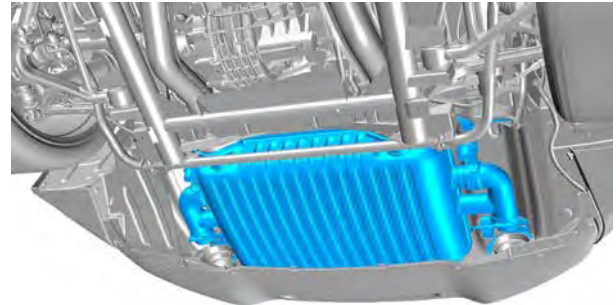


16. Remove the four Torx screws that attach the right side mounts for the muffler and bypass valve assembly to the body.



17. **Warning: The muffler and bypass valve assembly is heavy. You must have the aid of one more technician to do the step that follows.**

Remove the muffler and bypass valve assembly.



18. Remove and discard the two sealing rings.



Install

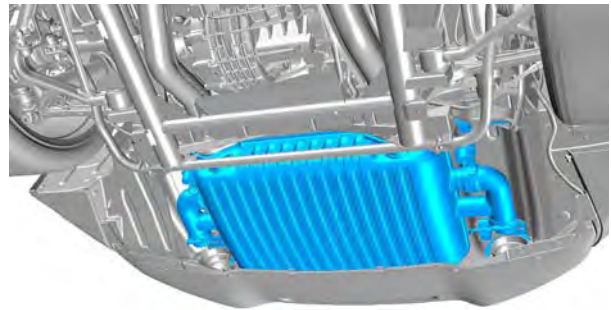
1. Clean the mating faces between the muffler and the rear pipes.
2. Install two new sealing rings.



A0-09-00-KA-18

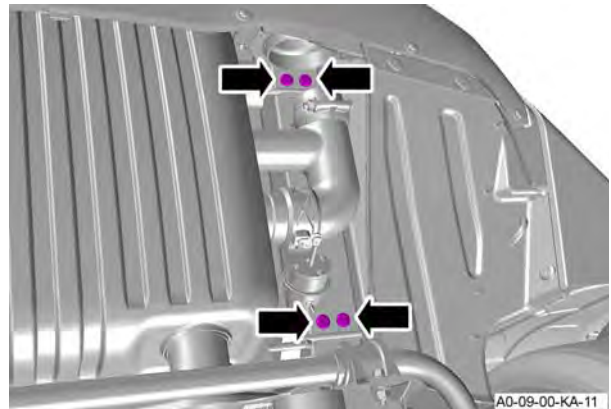
3. **Warning: The muffler and bypass valve assembly is heavy. You must have the aid of one more technician to do the step that follows.**

Put the muffler and bypass valve assembly into position.



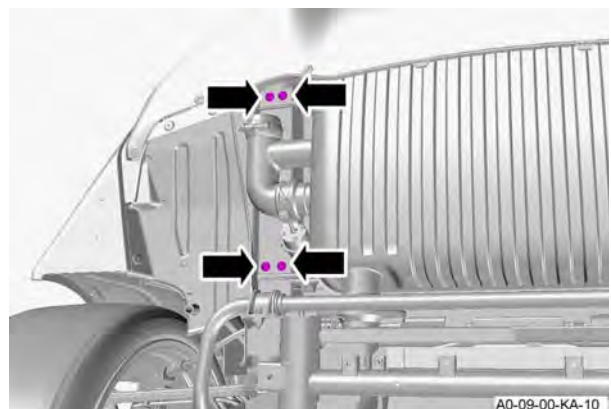
A0-09-00-KA-14

4. Install and torque the four Torx screws that attach the right side mounts for the muffler and bypass valve assembly to the body to 23 Nm.



A0-09-00-KA-11

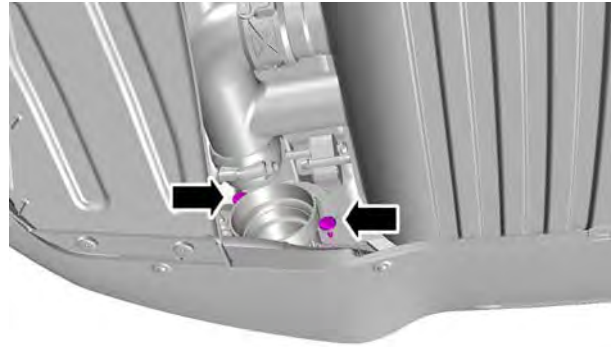
5. Install and torque the four Torx screws that attach the left side mounts for the muffler and bypass valve assembly to the body to 23 Nm.



A0-09-00-KA-10

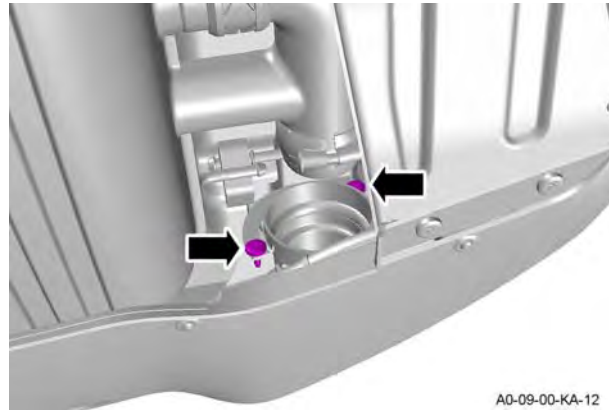
6. Remove the support from the muffler.

7. Install and tighten the two Torx screws that attach the right side exhaust finisher to the mounting bracket for the muffler and bypass valve assembly.



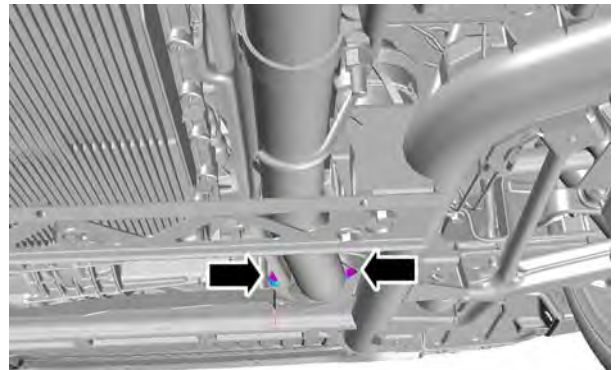
A0-09-00-KA-13

8. Install and tighten the two Torx screws that attach the left side exhaust finisher to the mounting bracket for the muffler and bypass valve assembly.



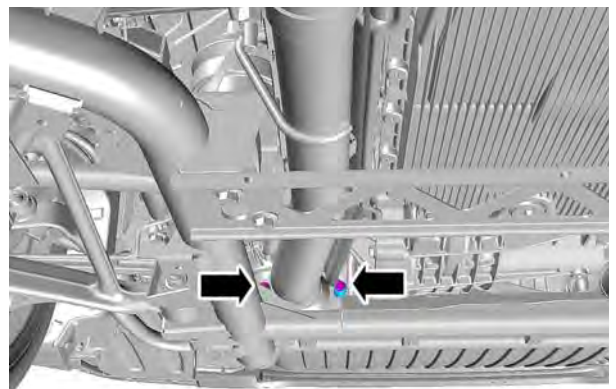
A0-09-00-KA-12

9. Install the two springs and install and torque the two bolts that attach the muffler and bypass valve assembly to the left side rear exhaust pipe to 30 Nm.



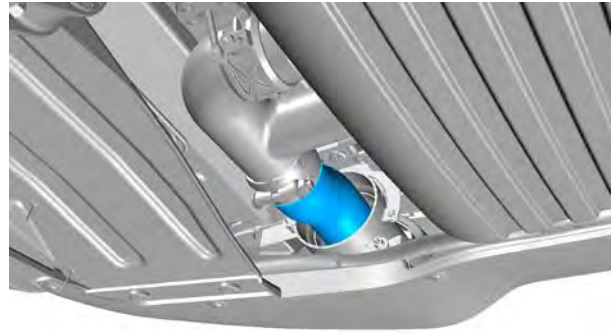
A0-09-00-KA-09

10. Install the two springs and install and torque the two bolts that attach the muffler and bypass valve assembly to the right side rear exhaust pipe to 30 Nm.



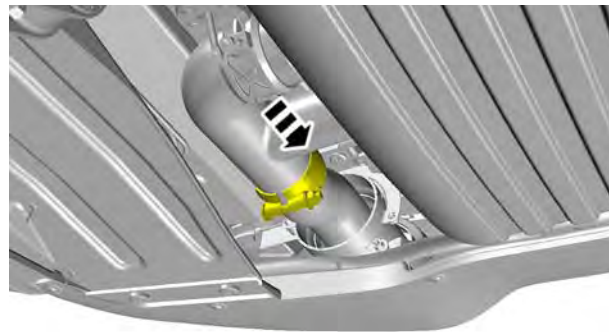
A0-09-00-KA-08

11. Install the right side exhaust outlet stub.



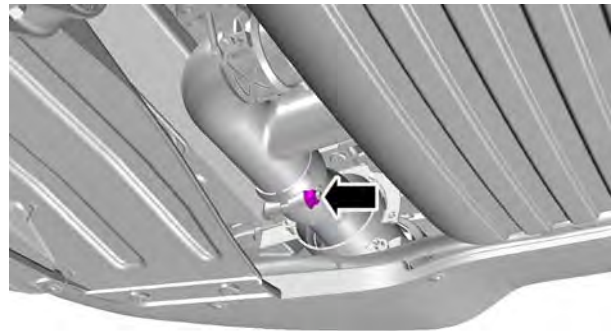
A0-09-00-KA-07

12. Move the exhaust clamp into the correct position.



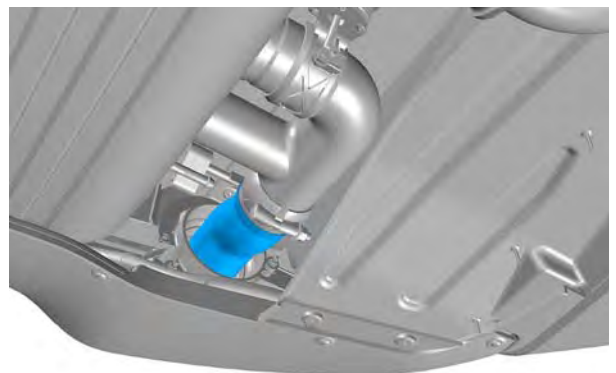
A0-09-00-KA-15

13. Torque the clamp that attaches the right side exhaust outlet stub to the muffler and bypass valve assembly to 21 Nm.



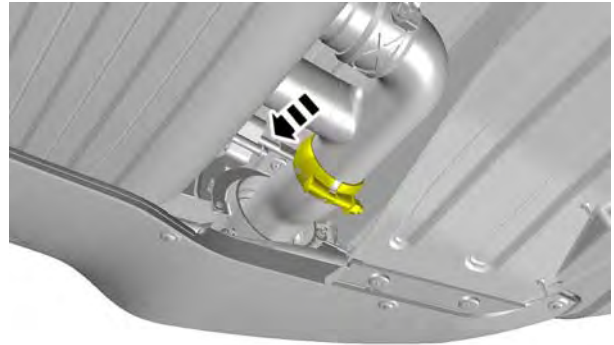
A0-09-00-AK-05

14. Install the left side exhaust outlet stub.



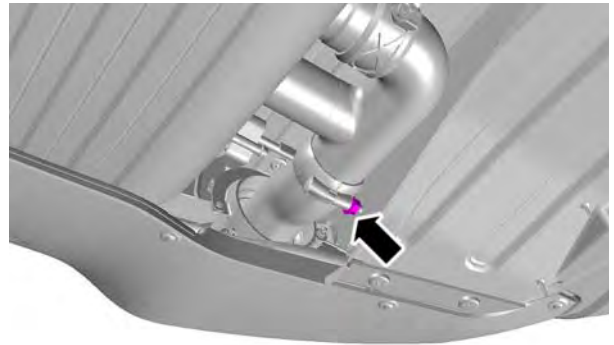
A0-09-00-KA-04

15. Move the exhaust clamp into the correct position.



A0-09-00-KA-16

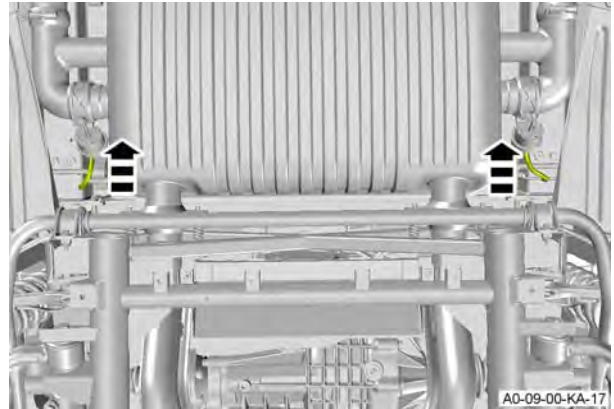
16. Torque the clamp that attaches the left side exhaust outlet stub to the muffler and bypass valve assembly to 21 Nm.



A0-09-00-KA-02

17. **Warning: The exhaust system will be hot during and after operation of the engine. Let the exhaust system cool for one hour before you do work. If you do not, personal injury can occur.**

Connect the vacuum lines to the exhaust muffler bypass valves.






A0-09-00-KA-17

18. Install the rear left side wheel-arch liner (01.02.JB - Rear Left Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)
19. Install the rear undertray (01.02.PB - Rear Undertray).
[\[Open Workshop Manual Procedure\]](#)

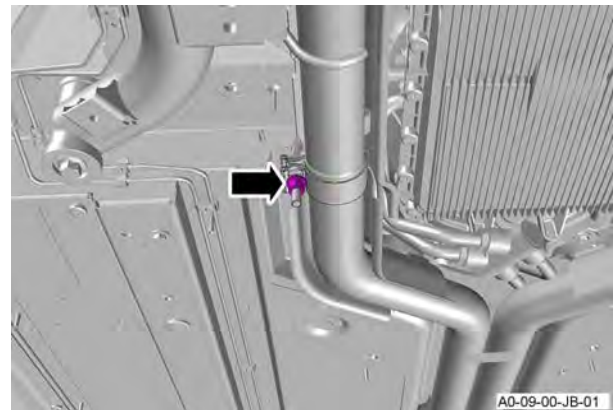
Published date: 2011-05-09 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****09.00.KG Rear Exhaust Pipe - Pair (Remove and Install New Part)**

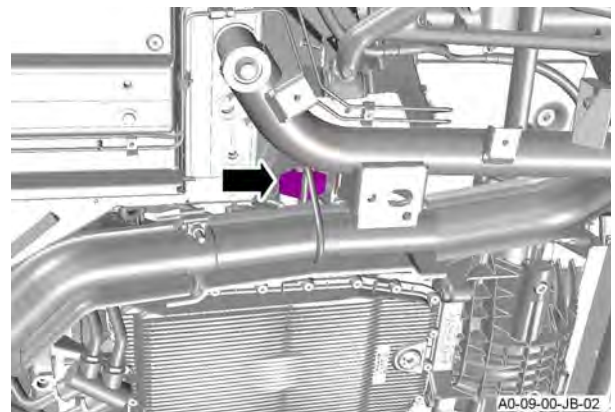
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

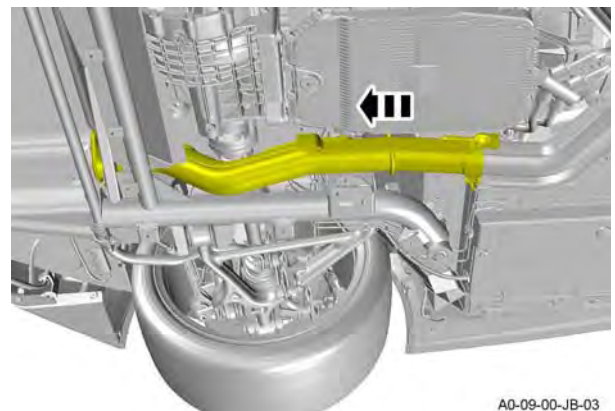
1. Remove the right side rear exhaust pipe (09.00.HB - Right Side Rear Exhaust Pipe).
[\[Open Workshop Manual Procedure\]](#)
2. Loosen the clamp that attaches the left side rear exhaust pipe to the centre exhaust pipe.



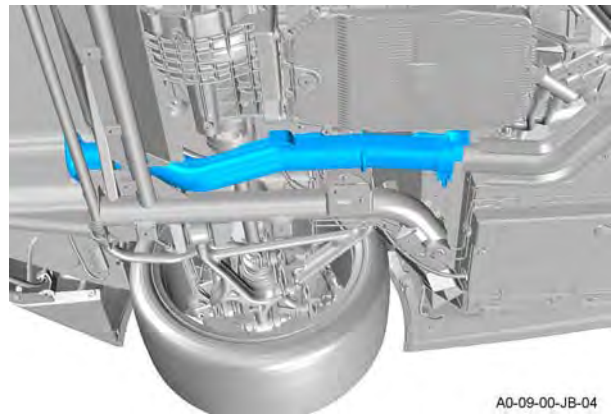
3. Release the left side rear exhaust pipe from the rubber mount.



4. Release the left side rear exhaust pipe from the centre exhaust pipe.

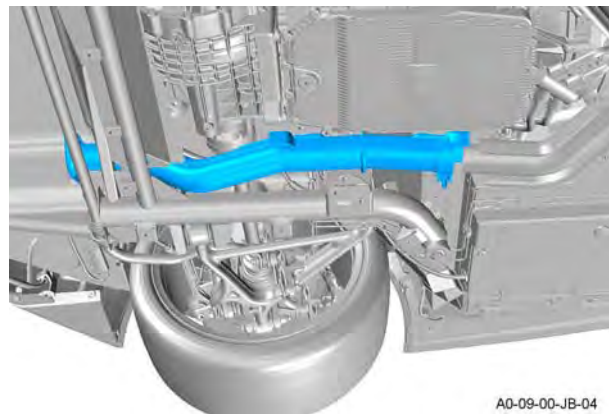


5. Remove the right side rear exhaust pipe.

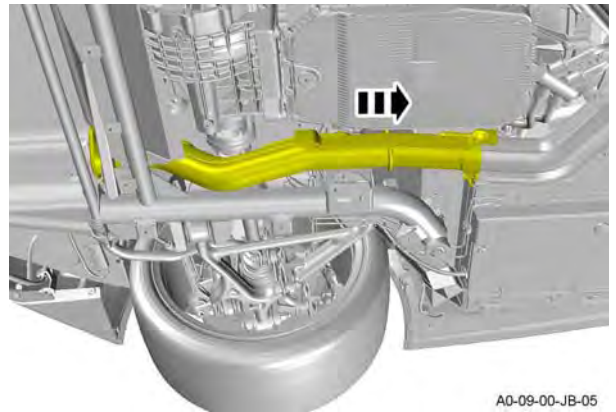


Install

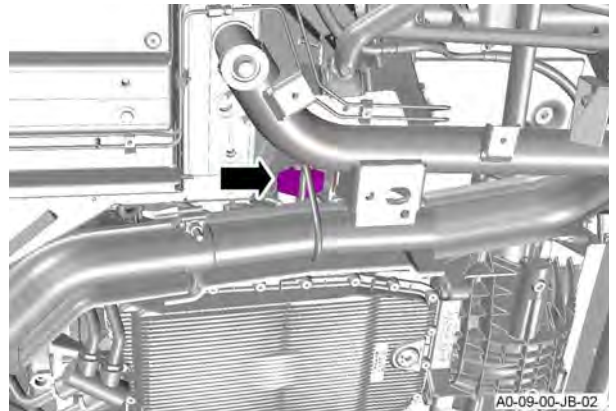
1. Put the right side rear exhaust pipe into position.



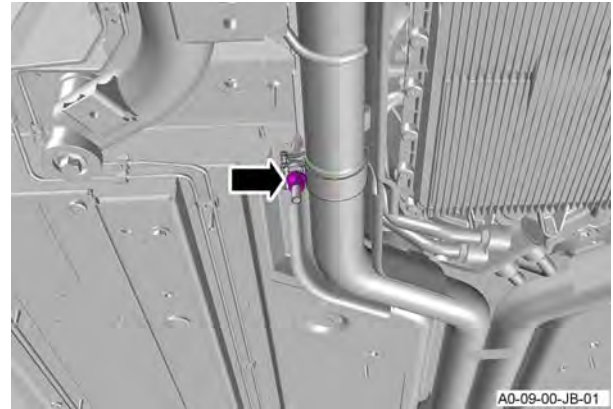
2. Install the right side rear exhaust pipe to the centre exhaust pipe.



3. Install the right side rear exhaust pipe to the rubber mount.






4. Install the right side rear exhaust pipe (09.00.HB - Right Side Rear Exhaust Pipe).
[\[Open Workshop Manual Procedure\]](#)
5. Torque the clamp that attaches the right side rear exhaust pipe to the centre exhaust pipe to 45 Nm.



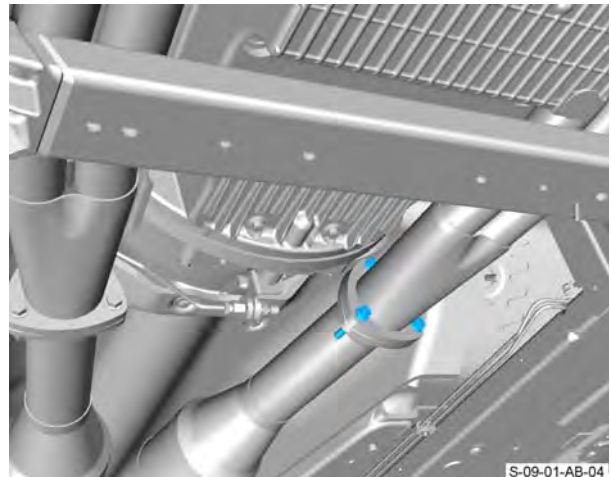
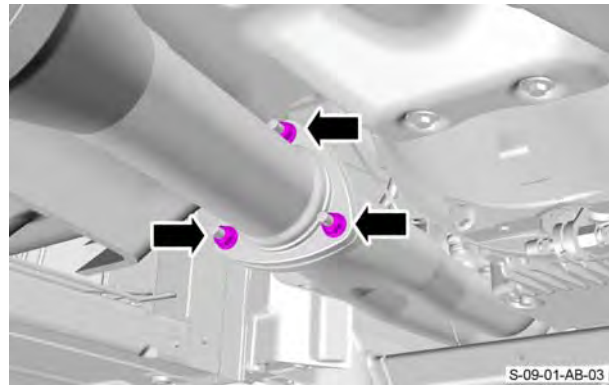
Published date: 2011-05-10 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****09.04.AA Front Floor Heat Shield (Remove and Install New Part)**

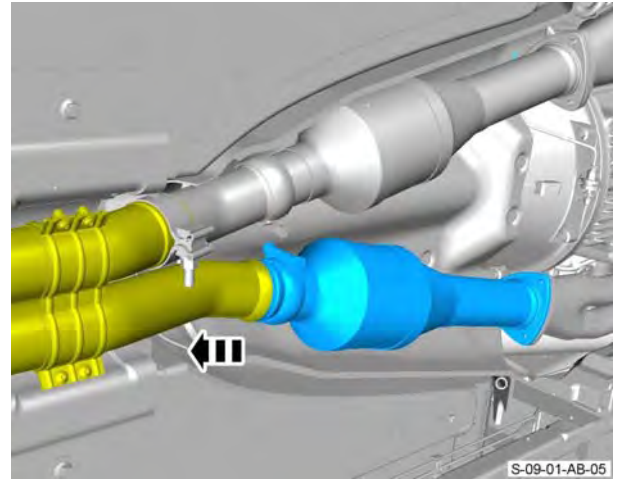
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

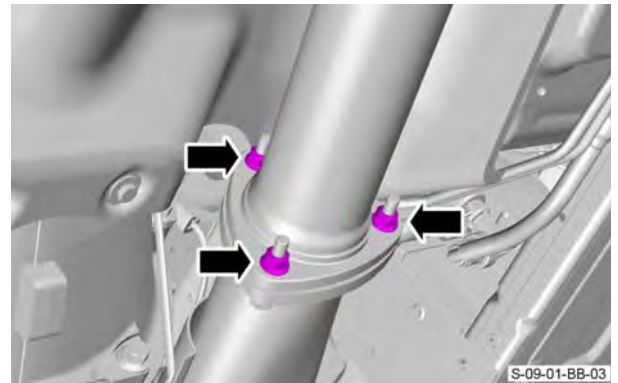
1. Remove the front undertray (01.02.NB - Front Undertray).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the centre exhaust pipe (09.00.BC - Centre Exhaust Pipe).
[\[Open Workshop Manual Procedure\]](#)
3. Remove the three nuts that attach the catalytic converter to the down pipe.
4. Remove the three bolts that attach the catalytic converter to the down pipe.



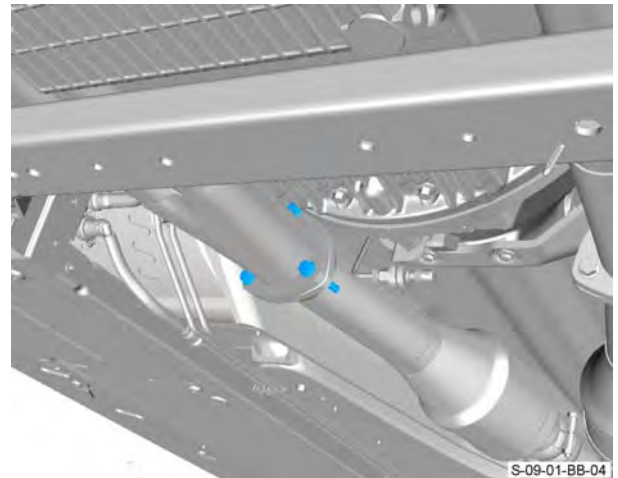
5. Remove the catalytic converter.



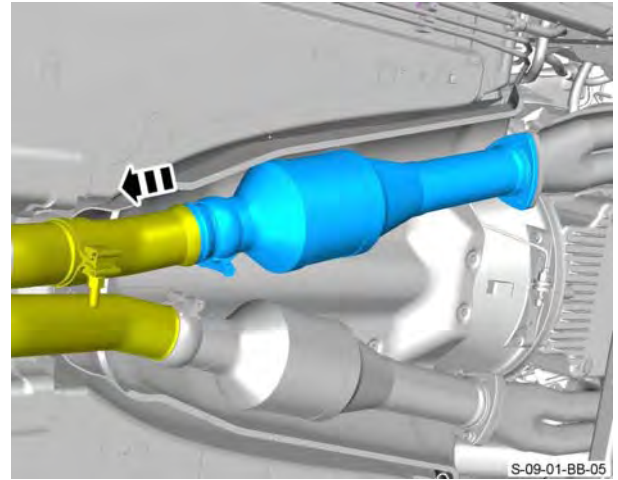
6. Remove the three nuts that attach the catalytic converter to the down pipe.



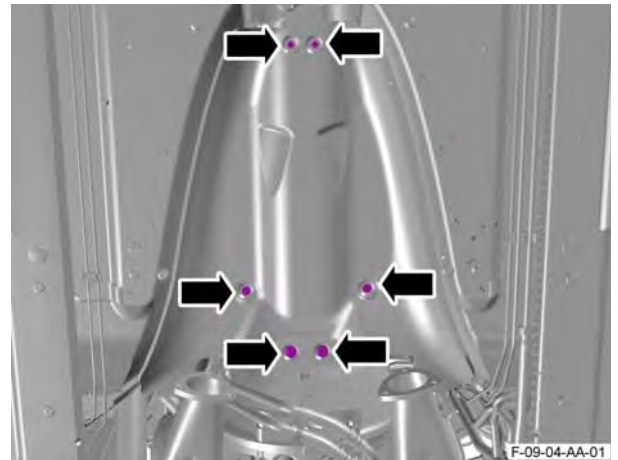
7. Remove the three bolts that attach the catalytic converter to the down pipe.



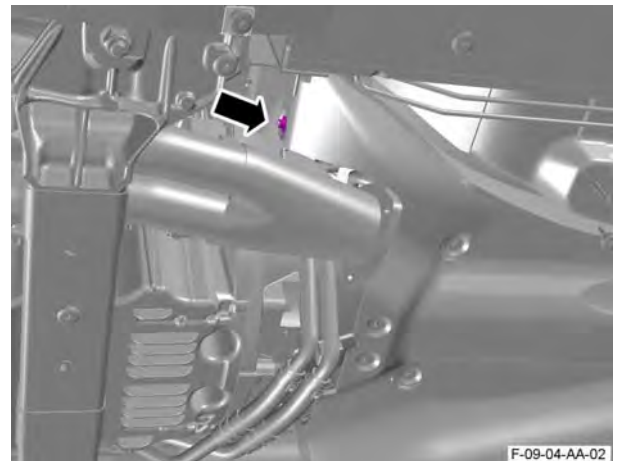
8. Remove the catalytic converter.



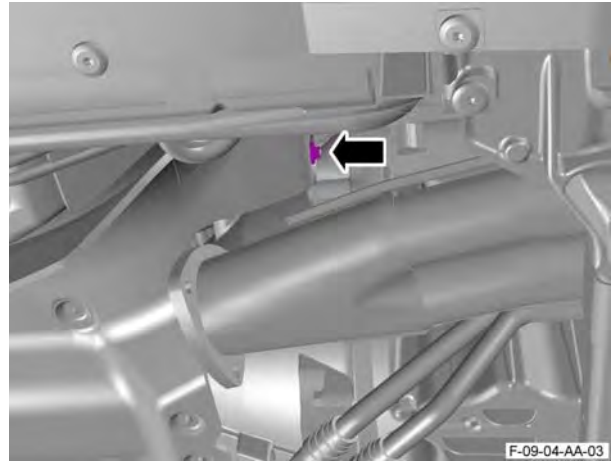
9. Remove the six bolts that attach the front floor heat shield to the body.



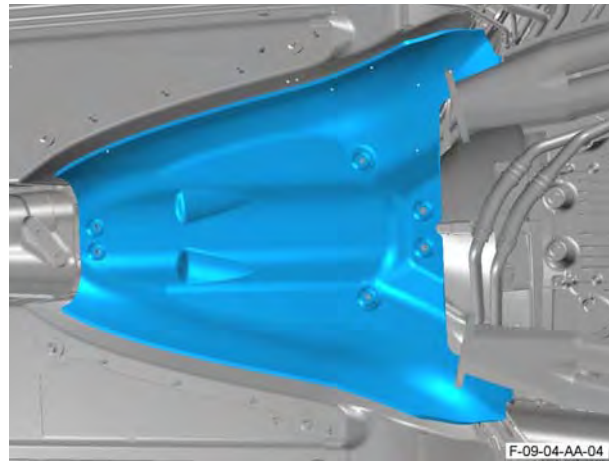
10. Remove the nut that attaches the front floor heat shield to the left side front bracket.



11. Remove the nut that attaches the front floor heat shield to the right side front bracket.

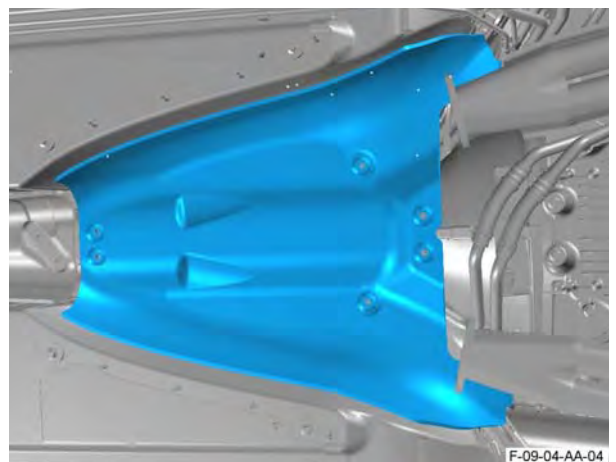


12. Remove the front floor heat shield.

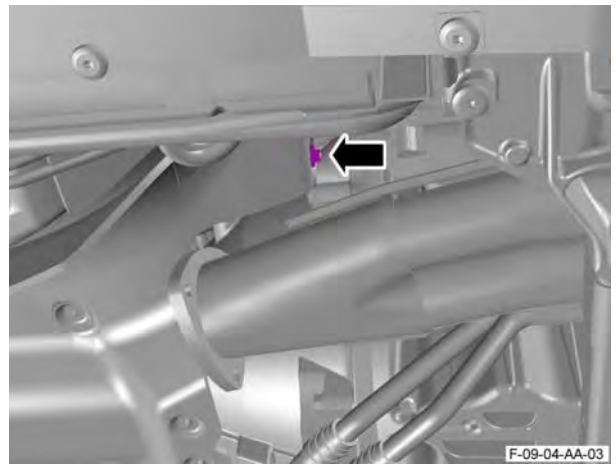


Install

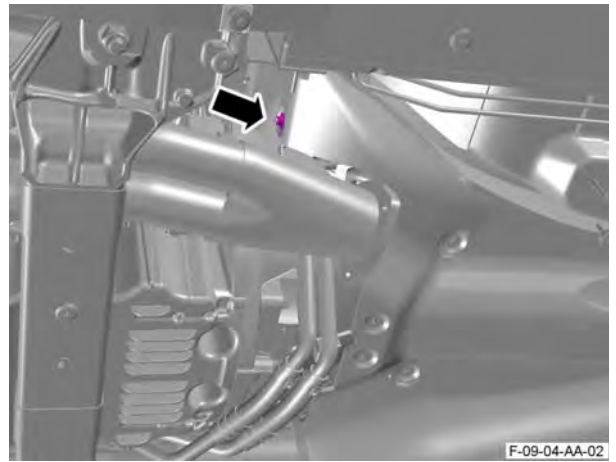
1. Install the front floor heat shield.



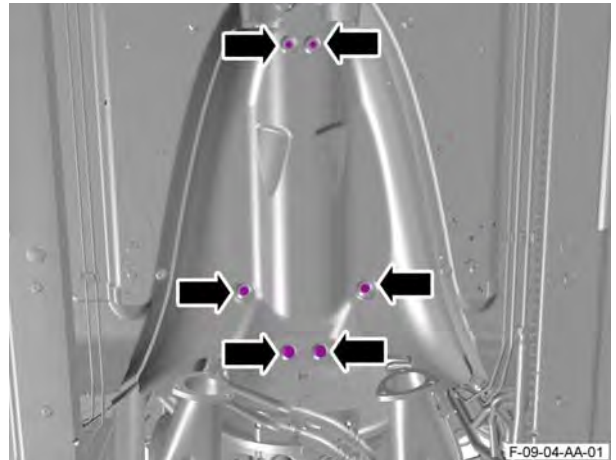
2. Install and torque the nut that attaches the front floor heat shield to the right side front bracket to 9 Nm.



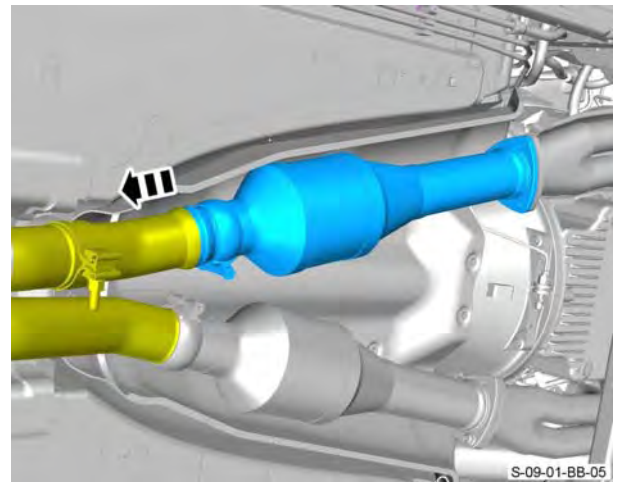
3. Install and torque the nut that attaches the front floor heat shield to the left side front bracket to 9 Nm.



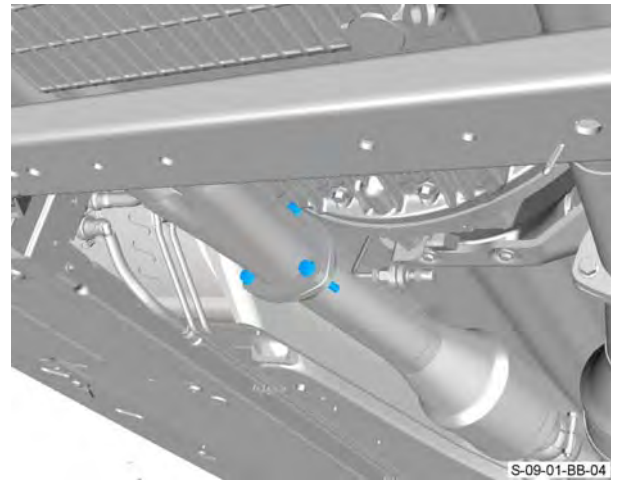
4. Install and torque the six bolts that attach the front floor heat shield to the body to 9 Nm.



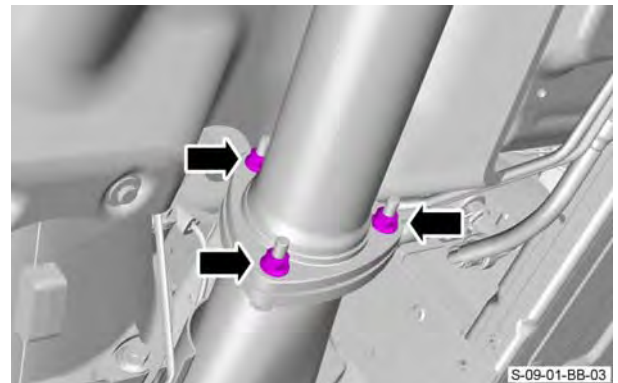
5. Install the catalytic converter.



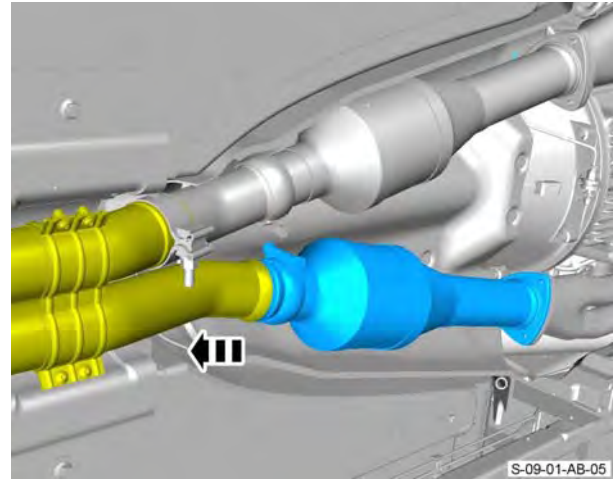
6. Install the three bolts that attach the catalytic converter to the down pipe.



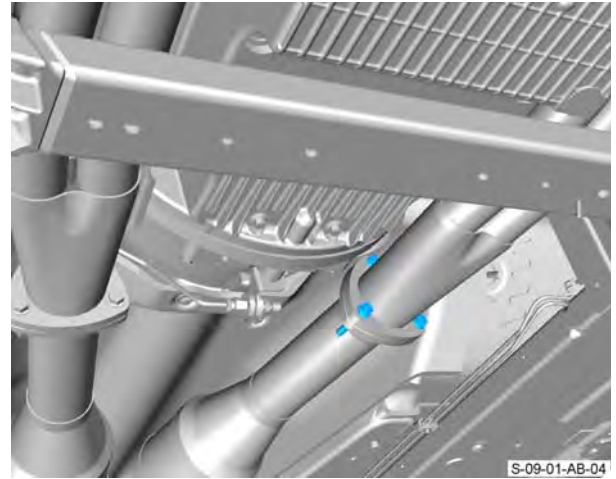
7. Install and torque the three nuts that attach the catalytic converter to the down pipe to 30 Nm.



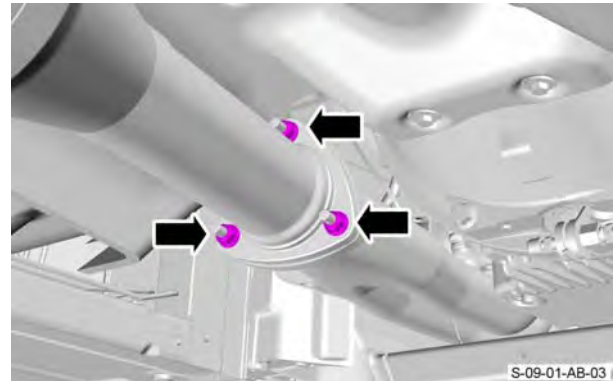
8. Install the catalytic converter.



9. Install the three bolts that attach the catalytic converter to the down pipe.



10. Install and torque the three nuts that attach the catalytic converter to the down pipe to 30 Nm.



11. Install the centre exhaust pipe (09.00.BC - Centre Exhaust Pipe).




[\[Open Workshop Manual Procedure\]](#)

12. Install the front undertray (01.02.NB - Front Undertray).

[\[Open Workshop Manual Procedure\]](#)

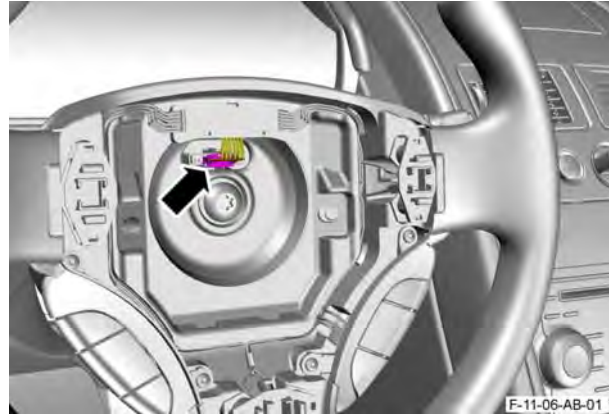
Published date: 2011-05-09 Procedure last changed: 2015-06-25 16:39:17


Small **Normal** **Large****11.06.AB Steering Wheel (Remove and Install New Part)**

-  WSM Data
-  Included Procedures
-  Is Used In

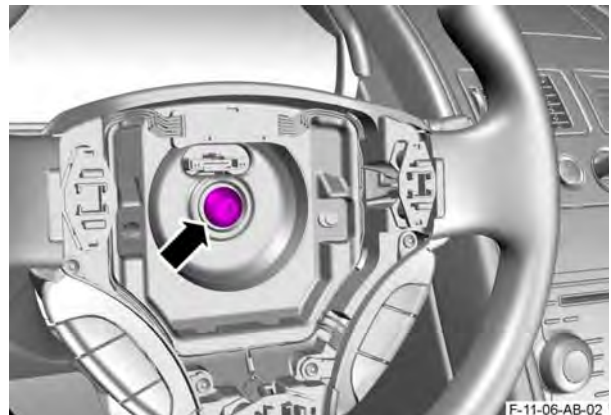
Removal

1. Remove the driver's airbag (01.20.CD - Driver's Airbag).
[\[Open Workshop Manual Procedure\]](#)
2. Rotate the steering to the centre position.
3. Disconnect the electrical connector from the wiring harness for the steering wheel.



4.  **Caution: Do not use the steering lock to hold the wheel when you remove the attachment bolt. The steering lock can be permanently damaged.**

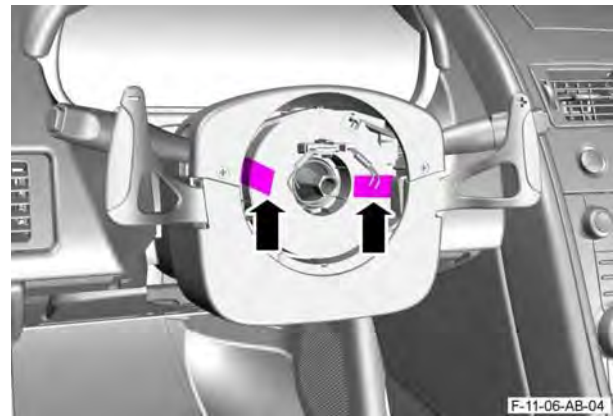
Remove the Torx bolt that attaches the steering wheel to the steering column.



5. Remove the steering wheel assembly.



- Apply tape to the rotary coupler to hold it in its central position.

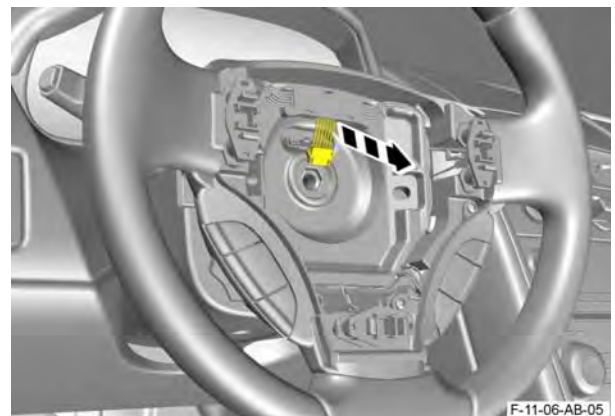


Install

- Put the steering wheel into position.

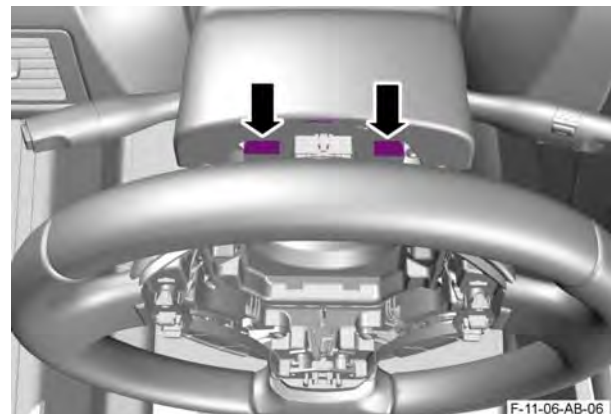


- Put the wiring harness from the rotary coupler through the space in the steering wheel.

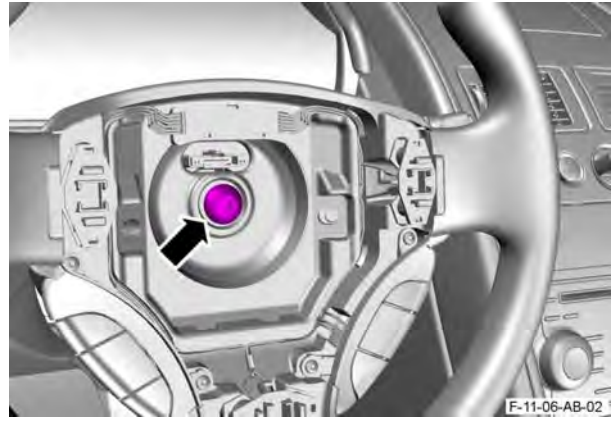


- ⚠ Caution: Align the steering wheel and the rack to the centre position during assembly. If you do not, the rotary coupling can be damaged. Also, it can be difficult to align the steering wheel in the straight-ahead position.**

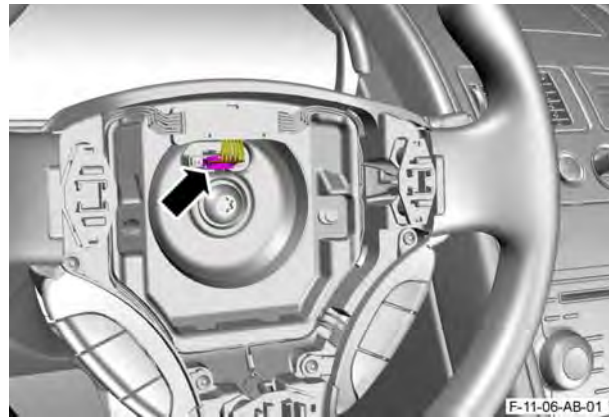
Carefully remove the tape from the rotary coupler while keeping it in the central position.



4. Install and torque the Torx bolt that attaches the steering wheel to the steering column to 50 Nm.



5. Connect the electrical connector for the steering wheel harness.






6. Install the driver's airbag (01.20.CD - Driver's Airbag).


[\[Open Workshop Manual Procedure\]](#)

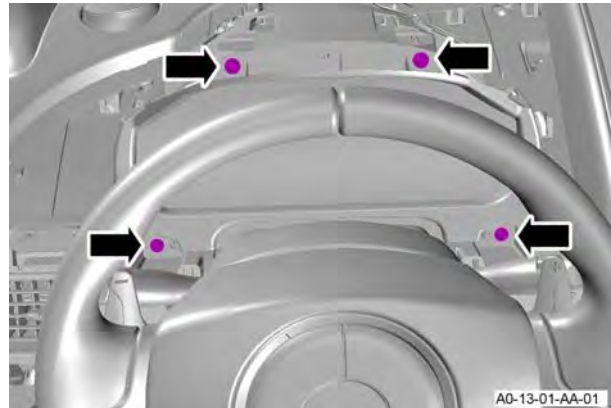
Published date: 2011-06-06 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****13.01.AA Driver Information Module (DIM) (Remove and Install New Part)**

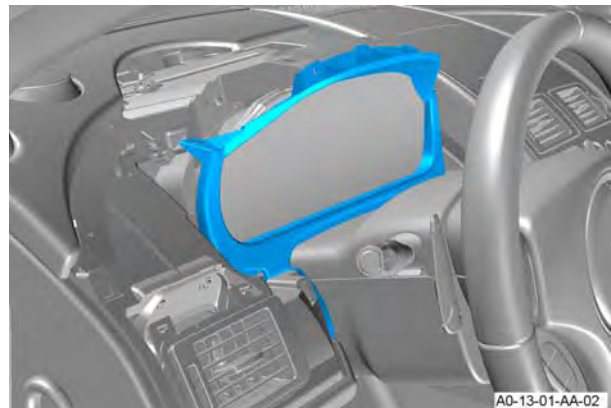
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

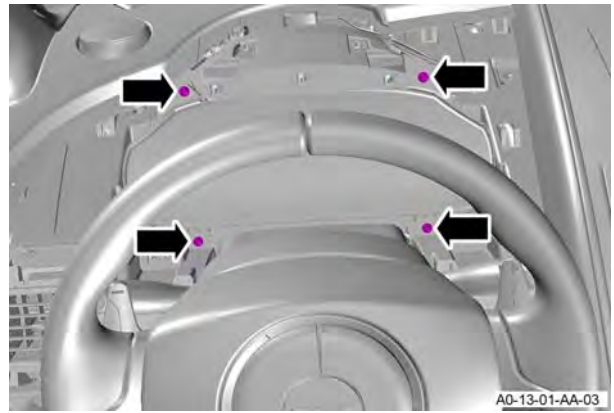
1.  *Note: Make a note of the mileage indication before you do the step that follows.*
2. Do the battery disconnection procedure (14.01.CA - Battery Disconnection and Connection Procedure).
[\[Open Workshop Manual Procedure\]](#)
3. Remove the driver's side inner top Instrument Panel (IP) assembly (01.12.BV - Driver's Side Inner Top Instrument Panel (IP) Assembly - LHD).
[\[Open Workshop Manual Procedure\]](#)
4. Remove the driver's side outer top IP assembly (01.12.BW - Driver's Side Outer Top Instrument Panel (IP) Assembly - LHD).
[\[Open Workshop Manual Procedure\]](#)
5. Remove the four screws that attach the bezel for the Driver Information Module (DIM) to the IP.



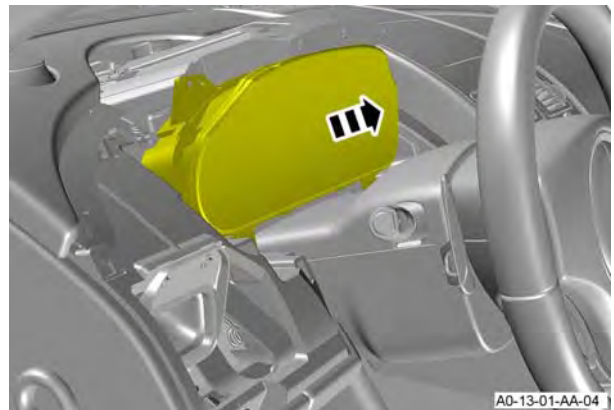
6. Remove the bezel for the DIM.



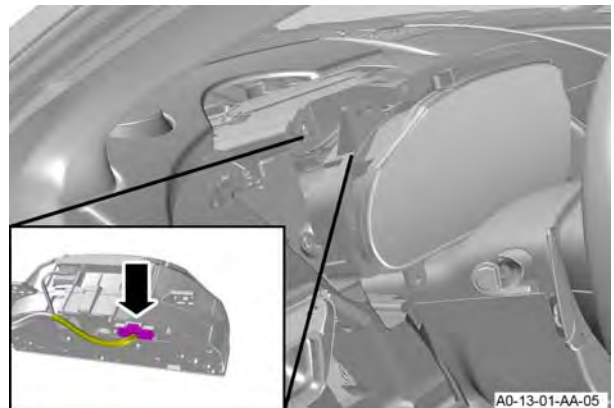
7. Remove the four screws that attach the DIM to the IP.



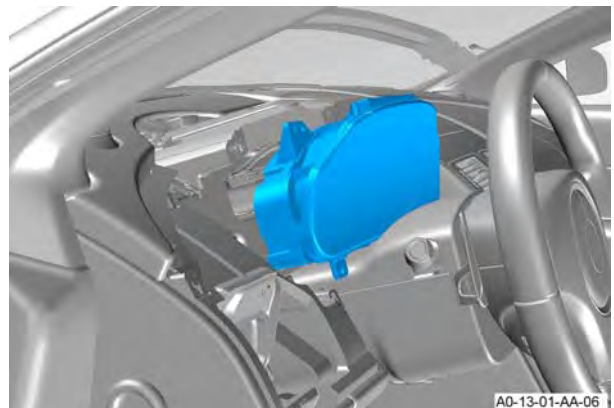
8. Reposition the DIM to get access to the electrical connector.



9. Disconnect the electrical connector from the DIM.

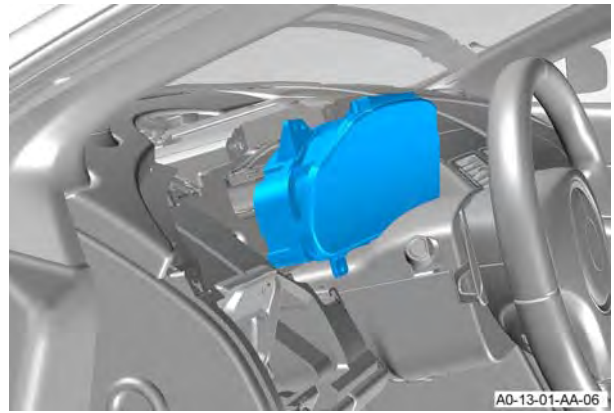


10. Remove the DIM.

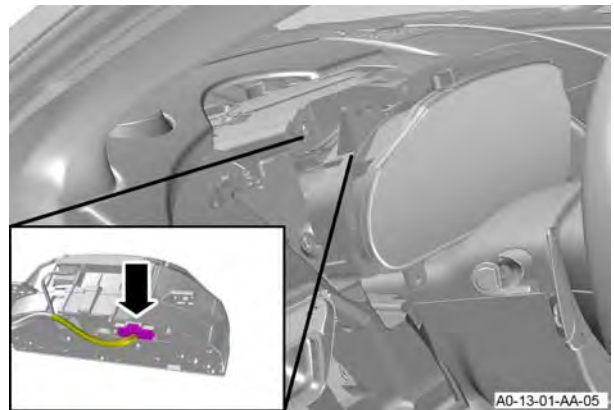


Install

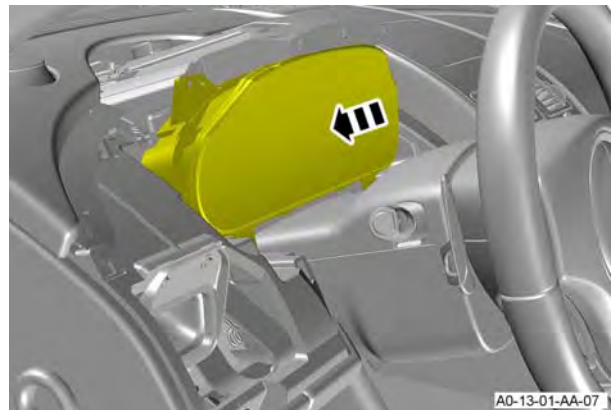
1. Install the DIM.



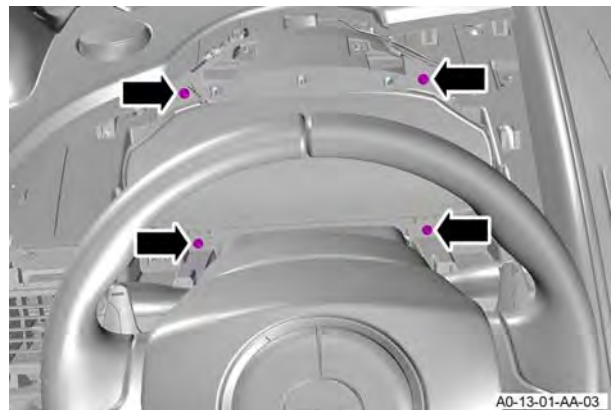
2. Connect the electrical connector to the DIM.



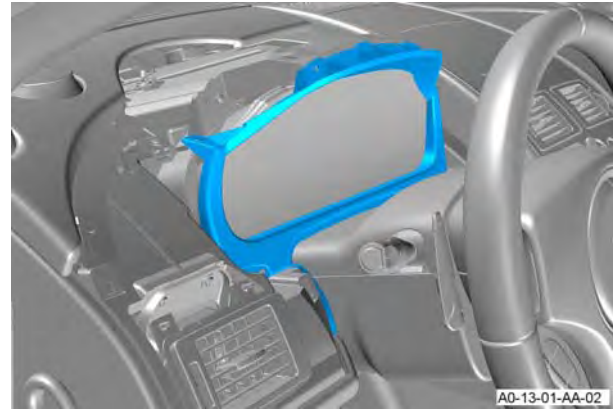
3. Put the DIM into the correct position.



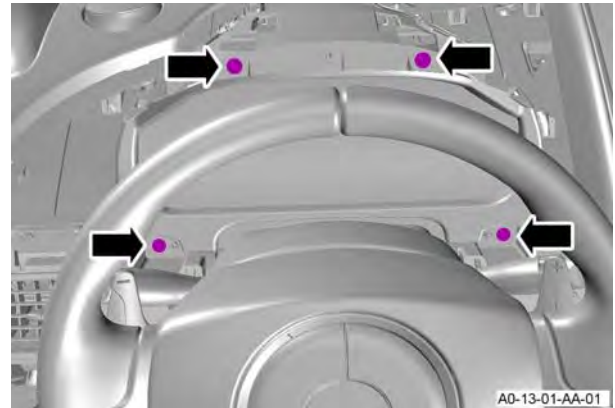
4. Install and tighten the four screws that attach the DIM to the IP.




5. Install the bezel for the DIM.






6. Install and tighten the four screws that attach the bezel for the Driver Information Module (DIM) to the IP.



7. Install the driver's side outer top IP assembly (01.12.BW - Driver's Side Outer Top Instrument Panel (IP) Assembly - LHD).
[\[Open Workshop Manual Procedure\]](#)
8. Install the driver's side inner top IP assembly (01.12.BV - Driver's Side Inner Top Instrument Panel (IP) Assembly - LHD).
[\[Open Workshop Manual Procedure\]](#)
9.  *Note: Make sure that the correct mileage indication shows on the DIM before you start the vehicle.*
10. Do the battery connection procedure (14.01.CA - Battery Disconnection and Connection Procedure).
[\[Open Workshop Manual Procedure\]](#)

Published date: 2011-06-01 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****14.01.AB Battery Assembly (Remove and Install New Part)**

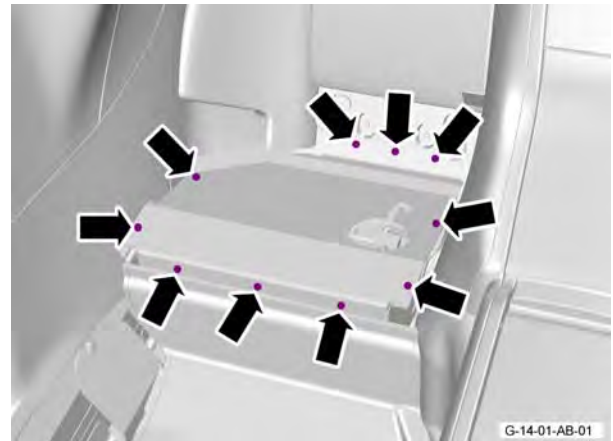
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

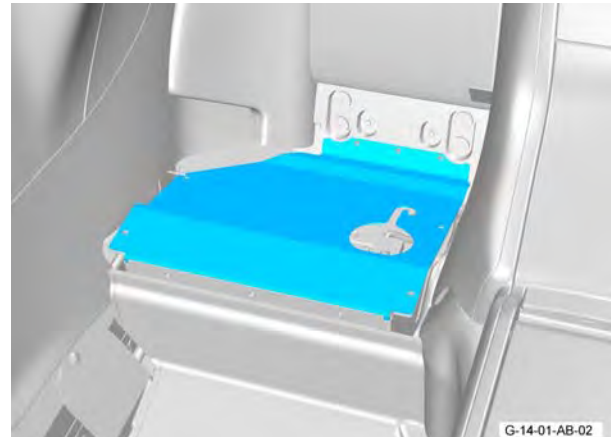
1. Make a note of the saved radio stations.
2. Make sure that the ignition is OFF.
3. Remove the lower cushion pad for the right side rear seat (01.10.BA - Lower Cushion Pad for the Right Side Rear Seat).

[\[Open Workshop Manual Procedure\]](#)

4. Remove the 10 bolts that attach the battery compartment cover to the body.

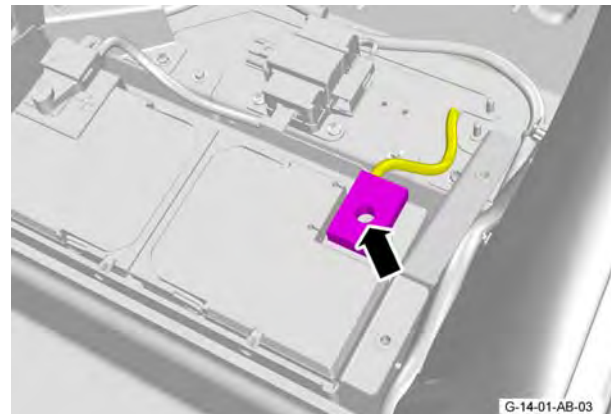


5. Remove the battery compartment cover.

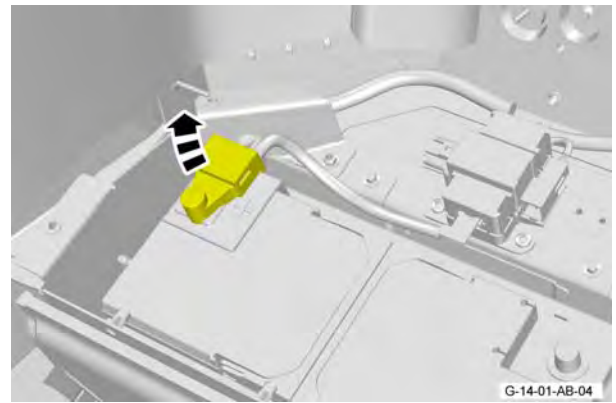


6.  **Warning: Always disconnect the ground (-ve) terminal first.**

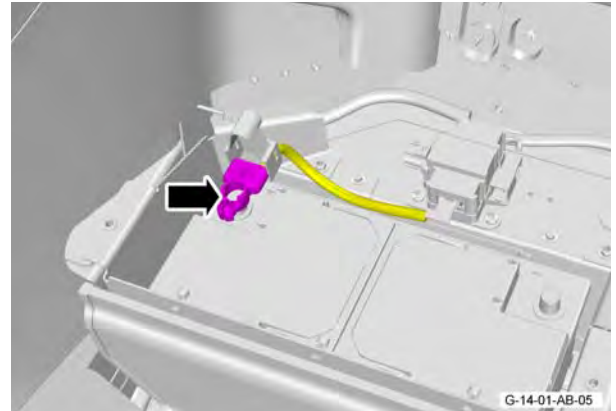
Loosen the nut and disconnect the battery ground cable from the terminal.



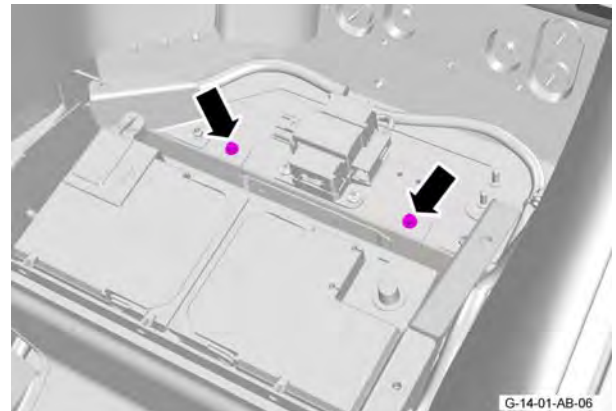
7. Reposition the cover for the battery positive cable.



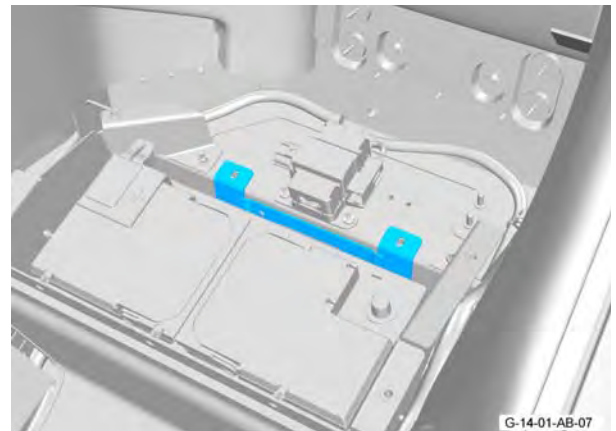
8. Loosen the nut and disconnect the battery positive cable from the terminal.



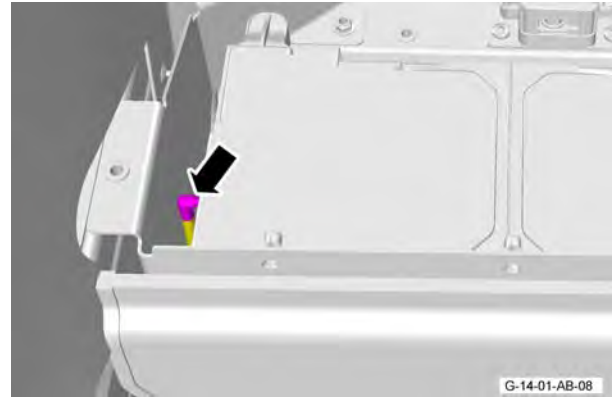
9. Remove the two bolts that attach the battery clamp to the body.




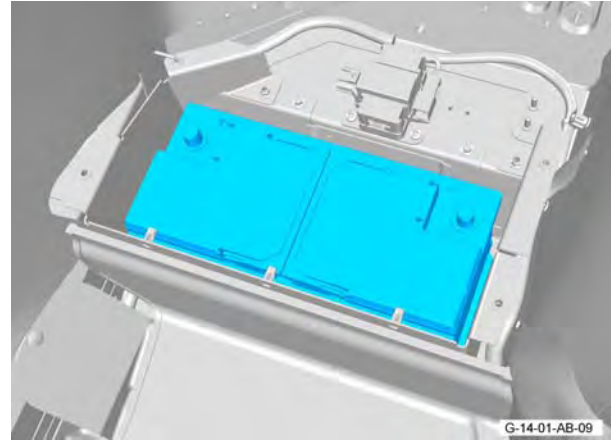
10. Remove the battery clamp.




11. Disconnect the battery vent tube.

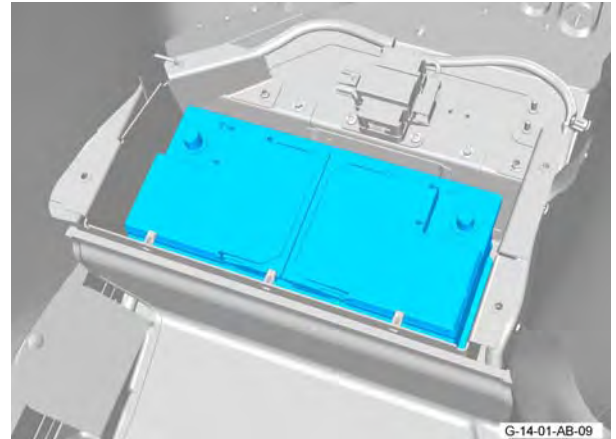



12.  **Warning: The battery is heavy and access to the battery is limited. Be careful when you lift the battery.**
Remove the battery.

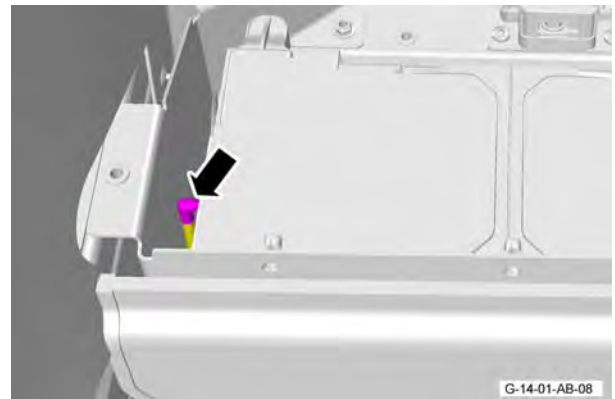


Install

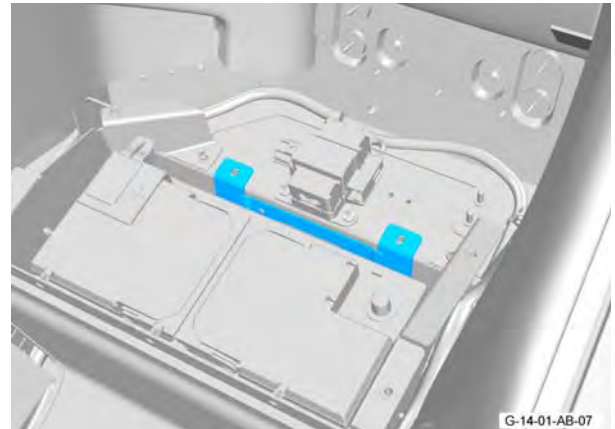
1.  **Warning: The battery is heavy and access to the battery is limited. Be careful when you lift the battery.**
Install the battery.



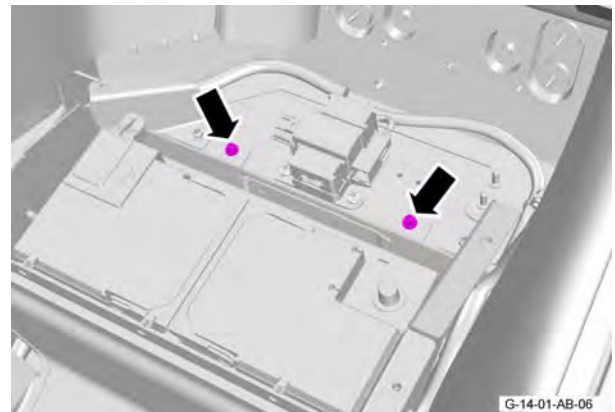
2.  **Caution: Make sure that the battery vent tube has no deformation.**
Connect the battery vent tube.



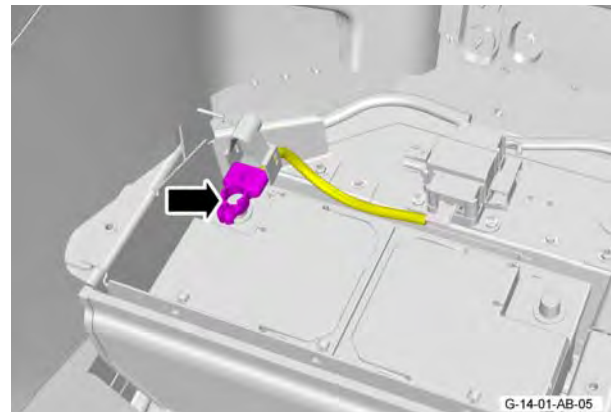
3. Install the battery clamp.



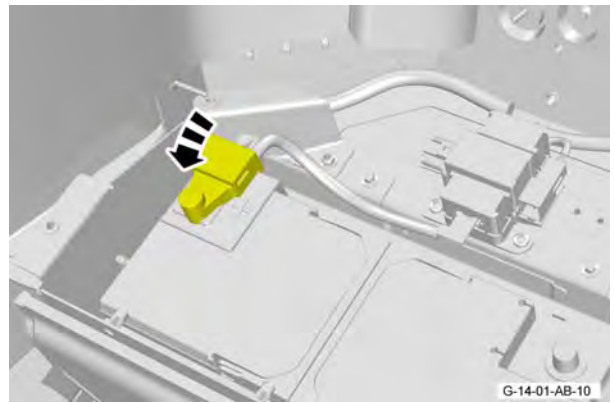
4. Install and torque the two bolts that attach the battery clamp to the body to 9 Nm.



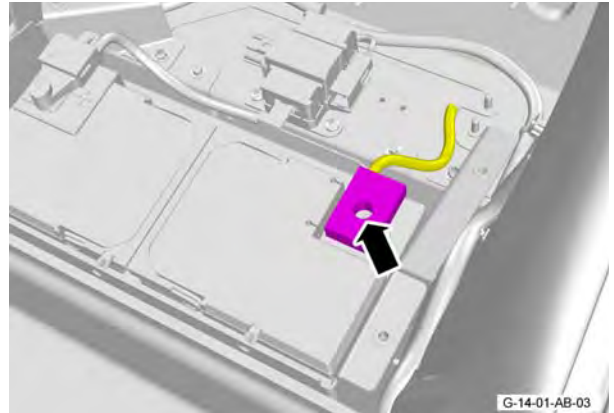
5. Connect the battery positive cable to the terminal and torque the nut to 8 Nm.



- Put the cover for the battery positive cable into its initial position.



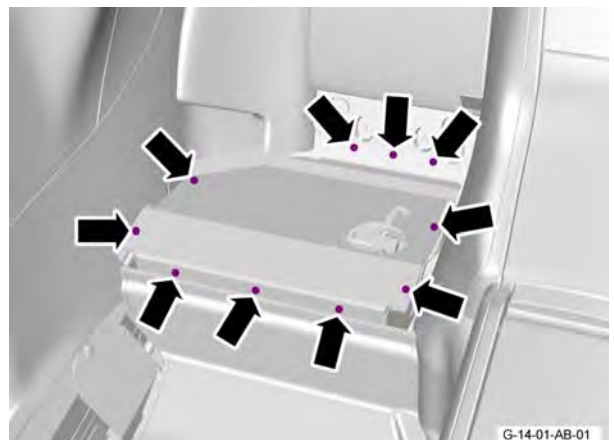
- Connect the battery ground cable from the terminal and torque the nut to 9 Nm.




- Install the battery compartment cover.






- Install and torque the 10 bolts that attach the battery compartment cover to the body to 9 Nm.



10. Install the lower cushion pad for the right side rear seat (01.10.BA - Lower Cushion Pad for the Right Side Rear Seat).
[\[Open Workshop Manual Procedure\]](#)
11. Use AMDS to clear all of the DTC's (00.06.AD - AMDS Operation Check).
[\[Open Workshop Manual Procedure\]](#)
12. Start the engine.
13. Program the radio stations.
14. Operate the front seats to their fully forward positions.
15. Operate the front seats to their fully rearward positions.
16. Operate the front seats to their highest positions.
17. Operate the front seats to their lowest positions.
18. Operate the front seat back rests to their fully rearward positions.
19. Operate the front seat back rests to their fully forward positions.
20. Operate the front seats into their initial positions.
21.  *Note: Make sure that all of the doors are closed.*
Operate the left side front window to its fully open position.
22. Operate the left side front window to its fully closed position.
23. Operate the right side front window to its fully open position.
24. Operate the right side front window to its fully closed position.
25. Disconnect AMDS from the vehicle.

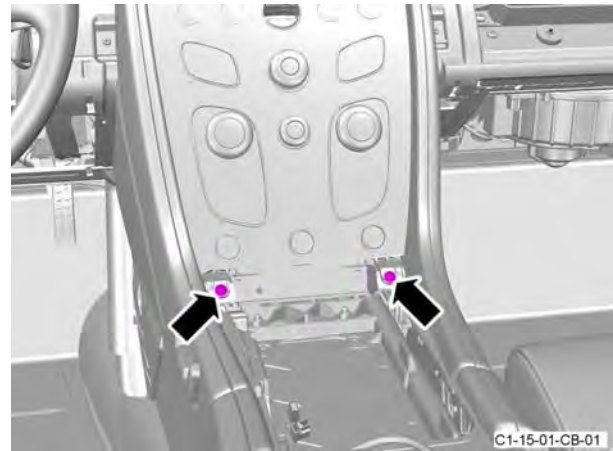
Published date: 2011-06-06 Procedure last changed: 2015-06-25 16:39:17

Small Normal Large**15.01.CB Centre Stack Assembly (Remove for Access and Install)**

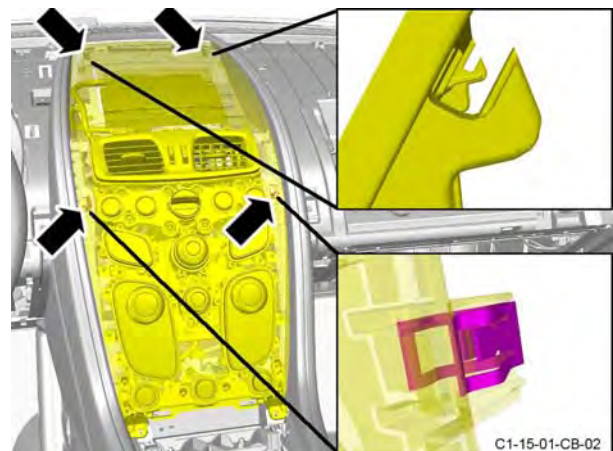
-  WSM Data
-  Included Procedures
-  Is Used In

Remove for Access

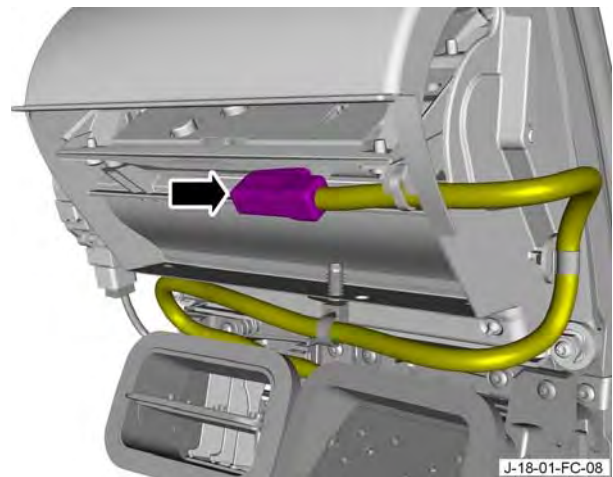
1. Do the battery disconnect procedure (14.01.CA - Battery Disconnection and Connection Procedure).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the centre console panel (01.12.DN - Centre Console Panel).
[\[Open Workshop Manual Procedure\]](#)
3. Remove the two screws that attach the centre stack assembly to the Instrument Panel(IP).



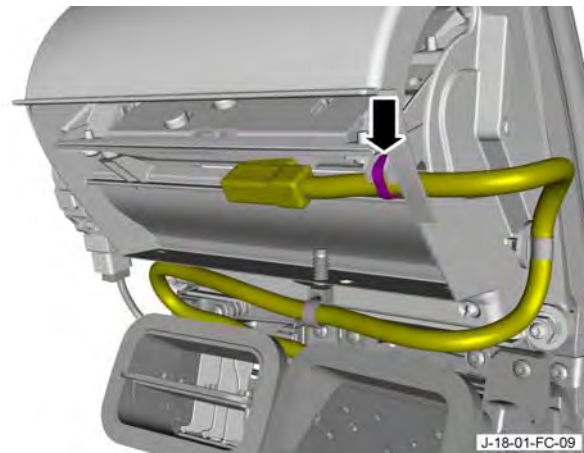
4. Apply protective tape to the internal trim adjacent to the centre stack assembly.
5. Place applicable protective covers over the surrounding trim.
6. Release the four clips that attach the centre stack assembly to the IP.



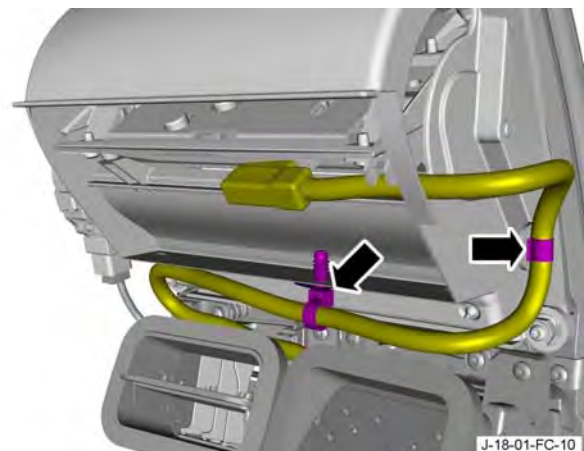
7. Disconnect the electrical connector from the navigation display screen.



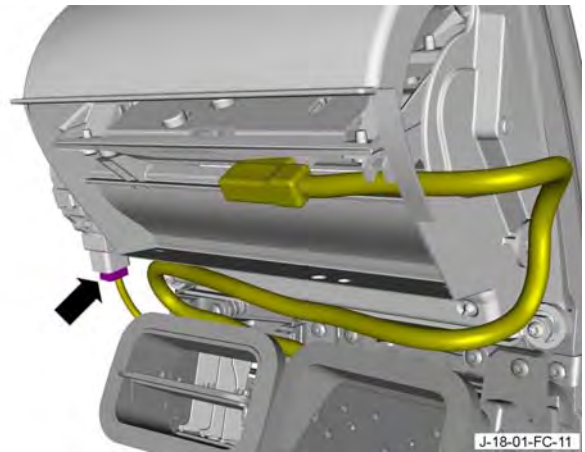
8. Cut and remove the cable tie that attaches the wiring harness for the centre stack to the mechanism for the navigation display screen.



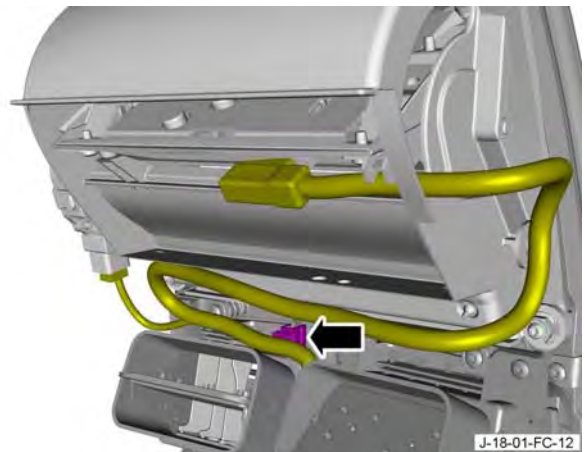
9. Release the two clips that attach the wiring harness for the centre stack to the centre stack assembly.



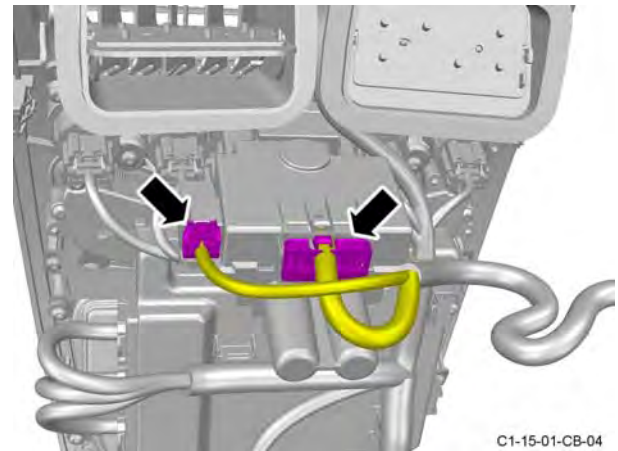
10. Disconnect the electrical connector from the mechanism for the navigation display screen.



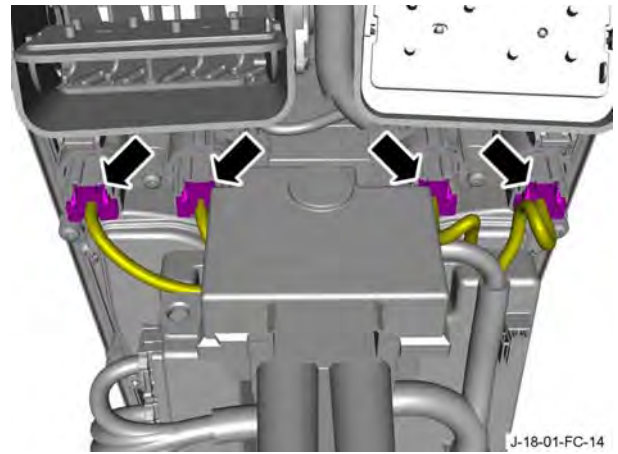
11. Release the clip that attaches the wiring harness for the centre stack to the centre stack assembly.



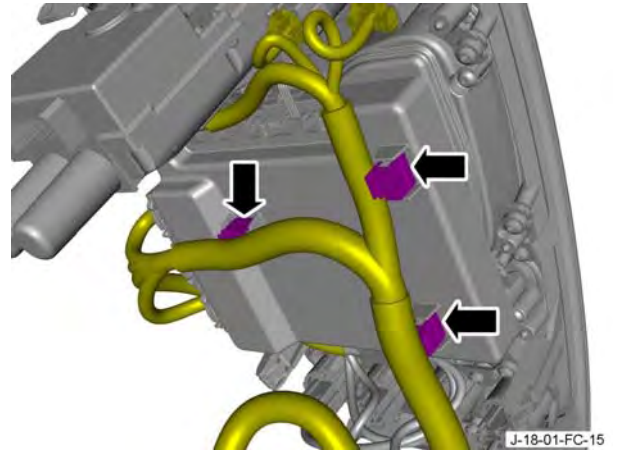
12. Disconnect the two electrical connectors from the docking station.



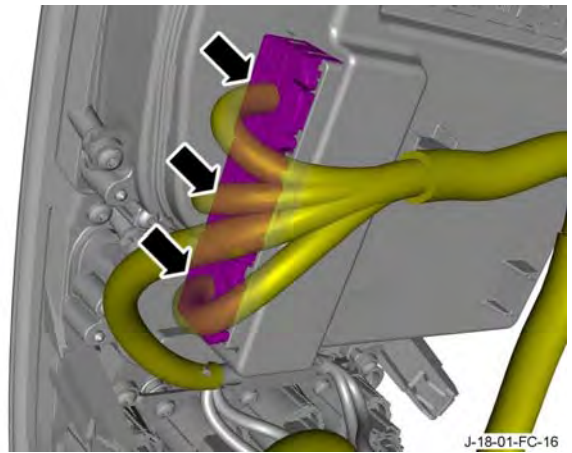
- 13. Disconnect the four electrical connectors from the control switches.



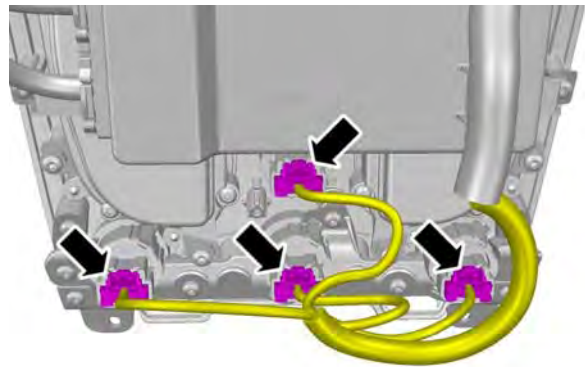
- 14. Release the three clips that attach the wiring harness for the centre stack to the Centre Console Module (CCM).



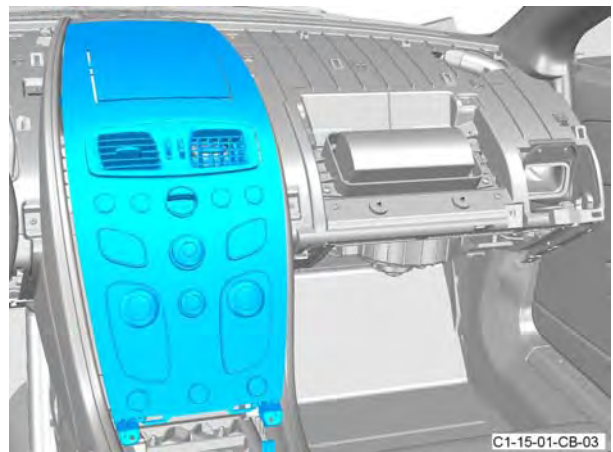
- 15. Disconnect the three electrical connectors from the CCM.



16. Disconnect the four electrical connectors from the control switches.

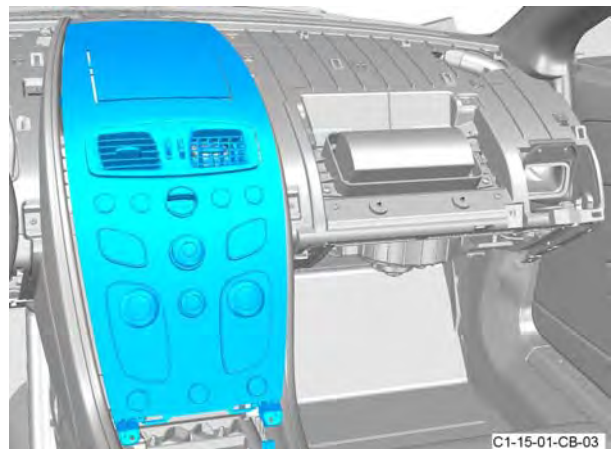


17. Remove the centre stack assembly.

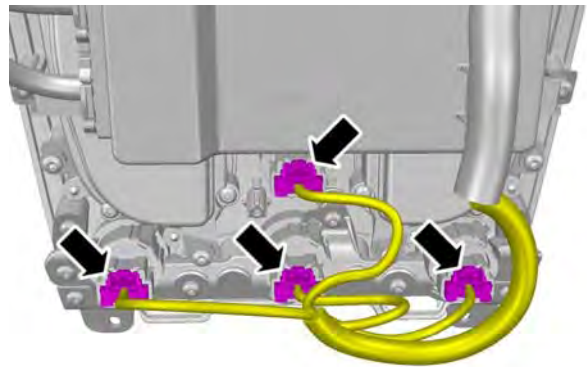


Install

1. Put the centre stack assembly into position.

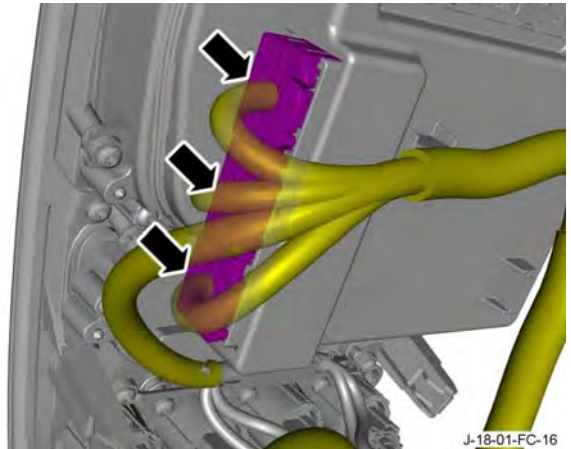


2. Connect the four electrical connectors to the control switches.



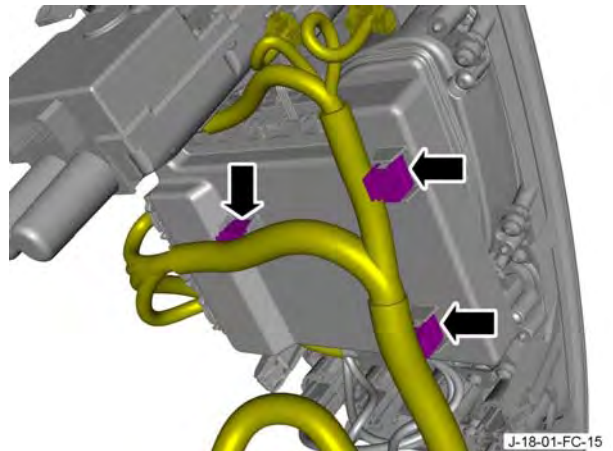
C1-15-01-CB-05

3. Connect the three electrical connectors to the CCM.



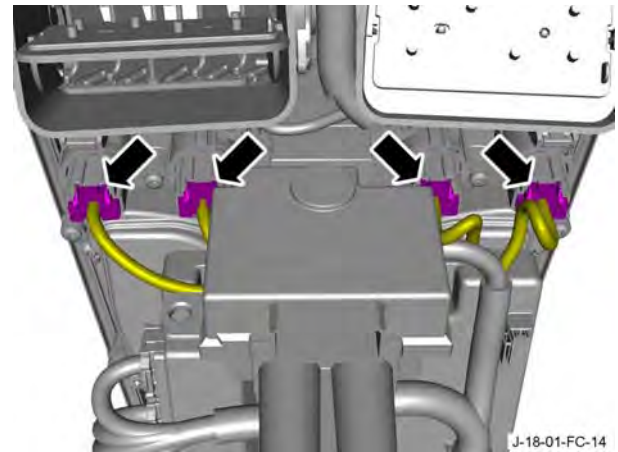
J-18-01-FC-16

4. Install the three clips that attach the wiring harness for the centre stack to the CCM.

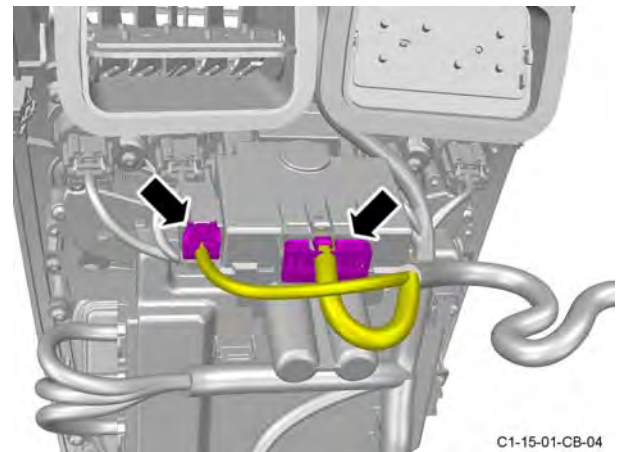


J-18-01-FC-15

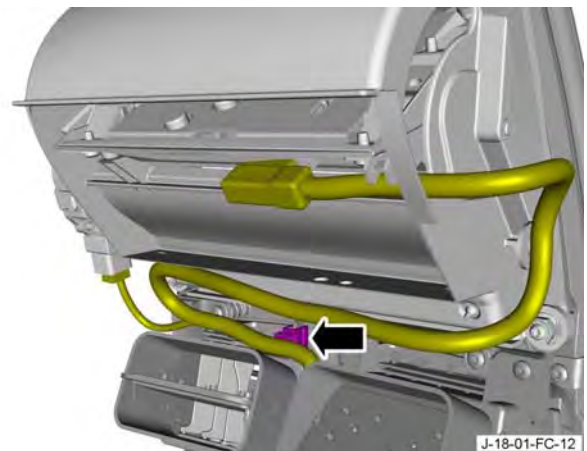
5. Connect the four electrical connectors to the control switches.



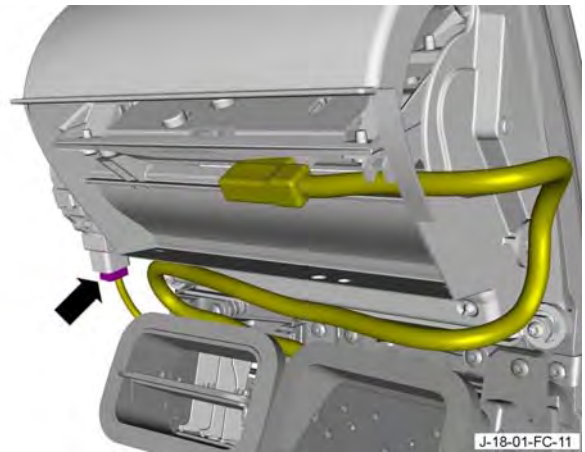
6. Connect the two electrical connectors to the docking station.



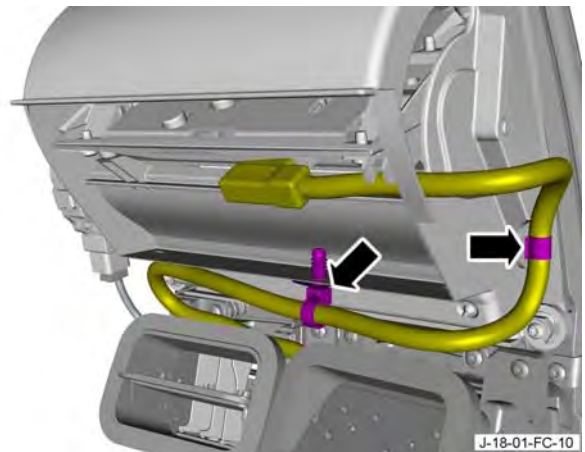
7. Install the clip that attaches the wiring harness for the centre stack to the centre stack assembly.



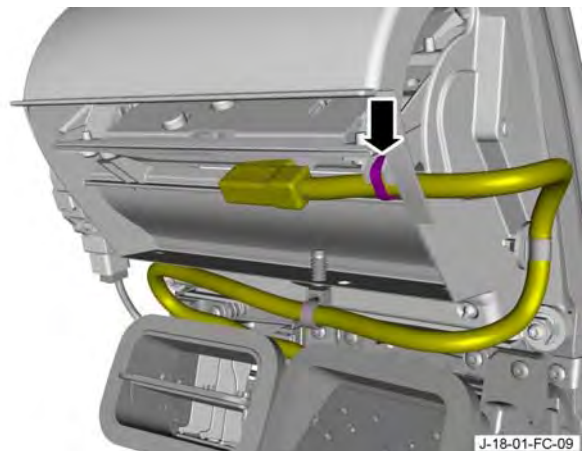
8. Connect the electrical connector to the mechanism for the navigation display screen.



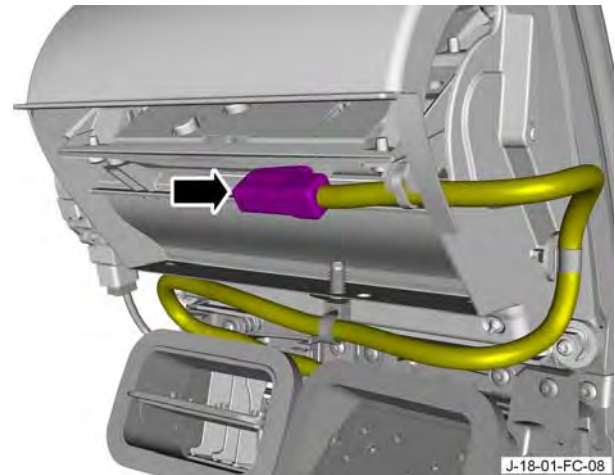
9. Install the two clips that attach the wiring harness for the centre stack to the centre stack assembly.



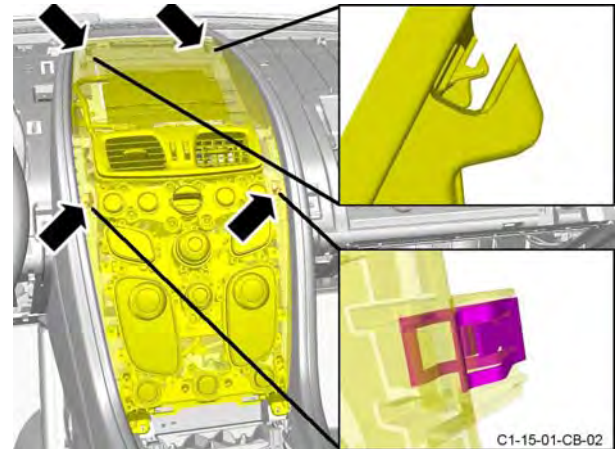
10. Install the cable tie that attaches the wiring harness for the centre stack to the mechanism for the navigation display screen.



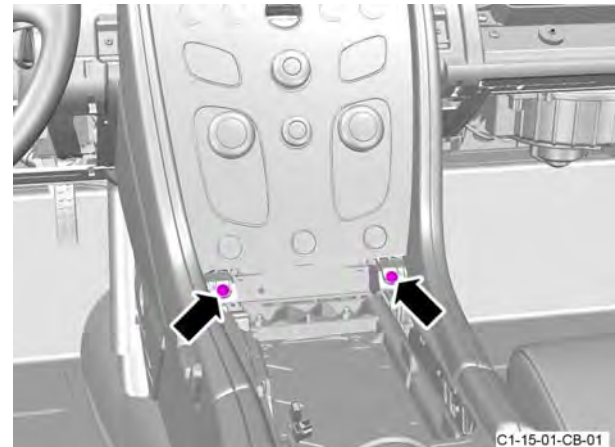
11. Connect the electrical connector to the navigation display screen.



12. Install the four clips that attach the centre stack assembly to the IP.






13. Remove the applicable protective covers from the surrounding trim.
14. Remove the protective tape from the internal trim adjacent to the centre stack assembly.
15. Install and tighten the two screws that attach the centre stack assembly to the IP



16. Install the centre console panel (01.12.DN - Centre Console Panel).
[\[Open Workshop Manual Procedure\]](#)
17. Do the battery connection procedure (14.01.CA - Battery Disconnection and Connection Procedure).
[\[Open Workshop Manual Procedure\]](#)

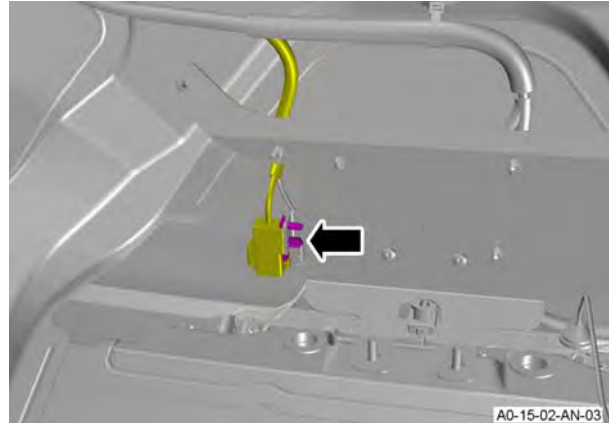
Published date: 2015-06-04 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****15.02.AN Antenna for the Satellite Digital Audio Receiver System (SDARS) (Remove and Install New Part)**

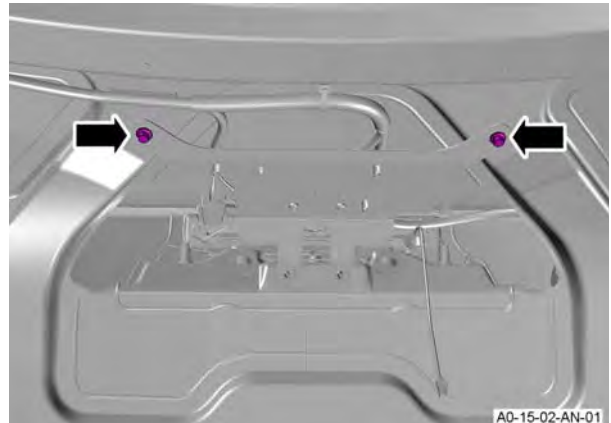
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

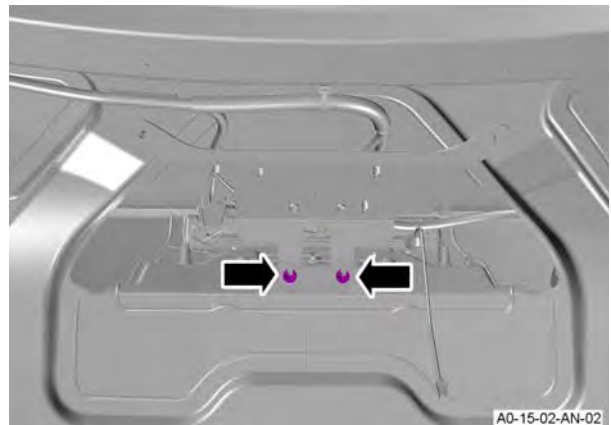
1. Remove the trim panel for the boot lid (01.05.FJ - Trim Panel for the Boot Lid).
[\[Open Workshop Manual Procedure\]](#)
2. Release the electrical connector from the clip that attaches it to the bracket for the antenna.



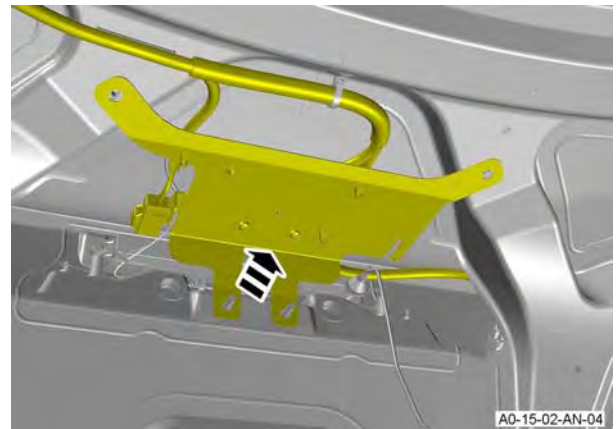
3. Remove the two screws that attach the bracket for the antenna to the boot lid.



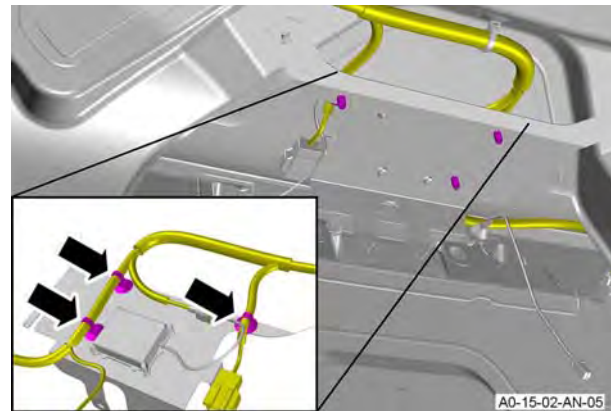
4. Remove the two nuts that attach the bracket for the antenna to the boot lid.



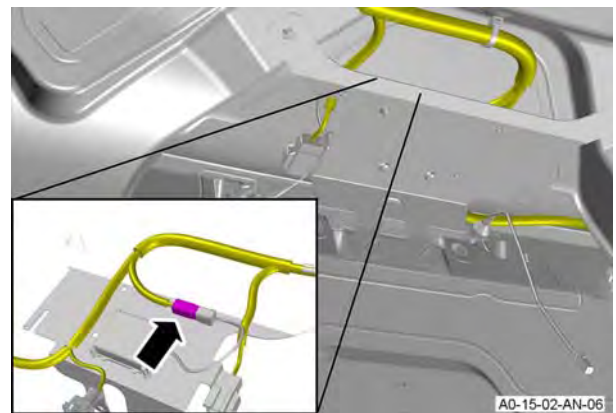
5. Move the bracket for the antenna away from the boot lid.



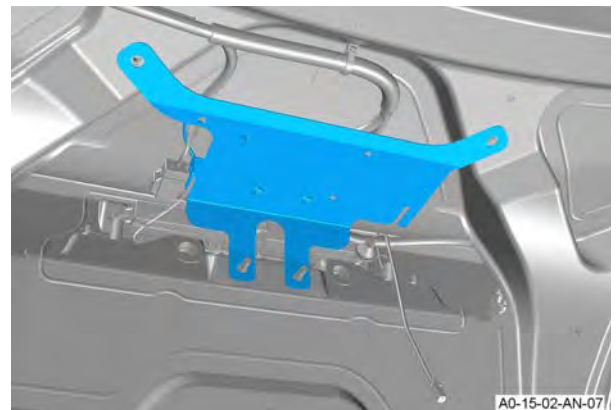
6. Release the wiring harness for the boot lid from the three clips that attach it to the bracket for the antenna.




7. Disconnect the electrical connector from the wiring harness for the antenna for the Satellite Digital Audio Receiver System (SDARS).

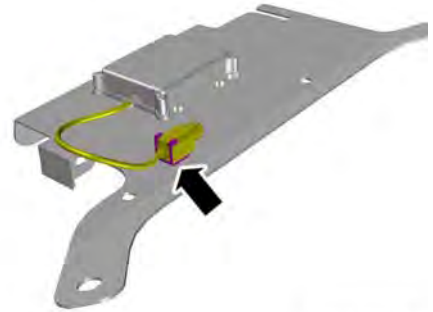


8. Remove the bracket for the antenna.



- 9.  *Note: If removal of the antenna for the SDARS is to give access only, do not do the steps that follow.*

Release the electrical connector for the antenna from the clip that attaches it to the bracket for the antenna.



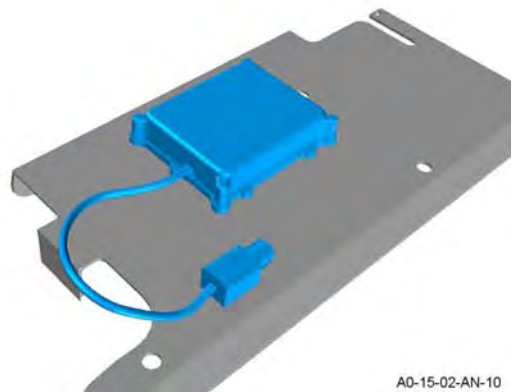
A0-15-02-AN-08

- 10. Remove the two screws that attach the antenna for the SDARS to the bracket for the antenna.



A0-15-02-AN-09

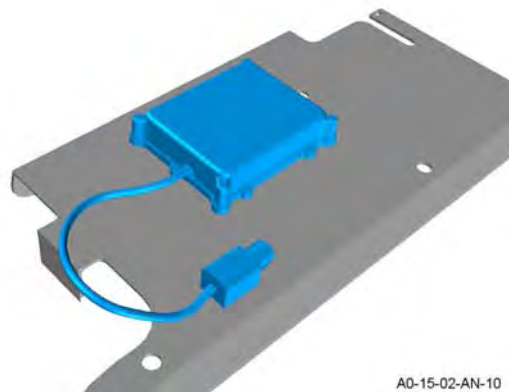
- 11. Remove the antenna for the SDARS.



A0-15-02-AN-10

Install

- 1. Install the antenna for the SDARS.



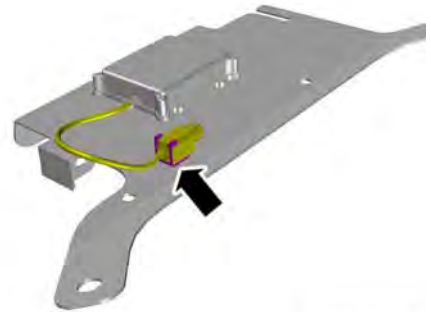
A0-15-02-AN-10

2. Install and tighten the two screws that attach the antenna for the SDARS to the bracket for the antenna.



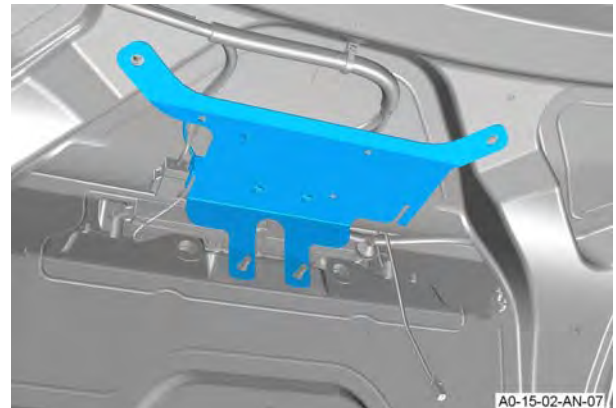
A0-15-02-AN-09

3. Install the electrical connector for the antenna to the clip that attaches it to the bracket for the antenna.



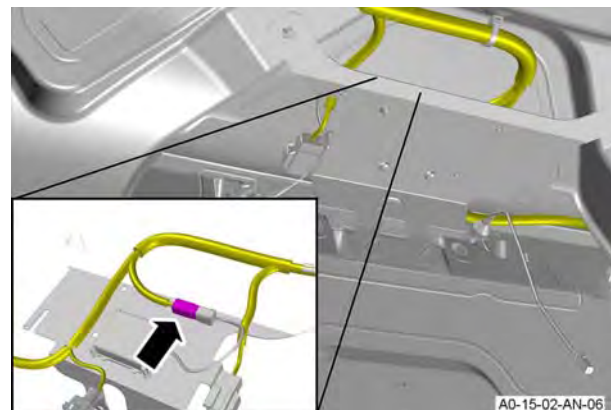
A0-15-02-AN-08

4. Put the bracket for the antenna into position.



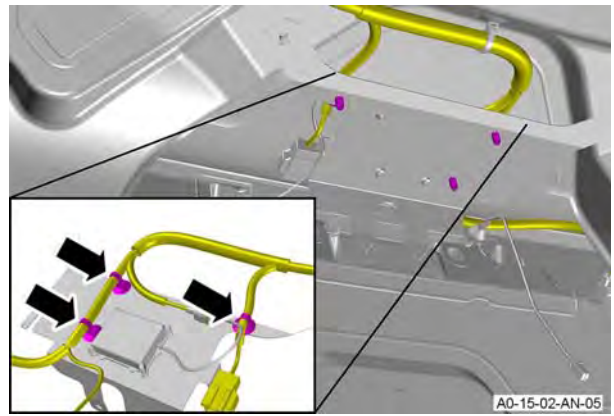
A0-15-02-AN-07

5. Connect the electrical connector to the wiring harness for the antenna for the SDARS.

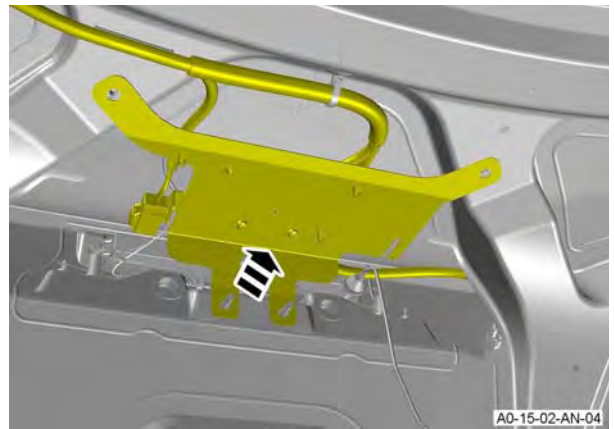


A0-15-02-AN-06

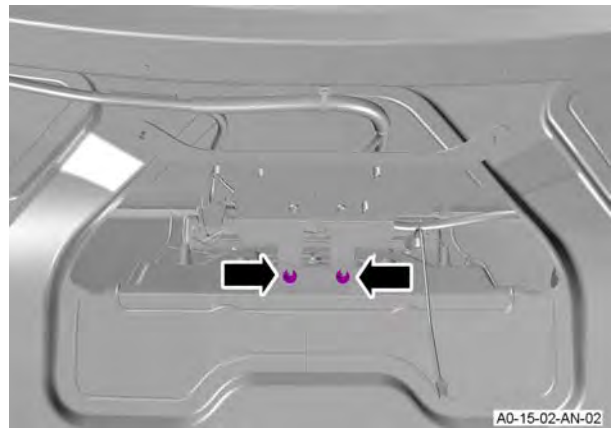
6. Install the wiring harness for the boot lid to the three clips that attach it to the bracket for the antenna.



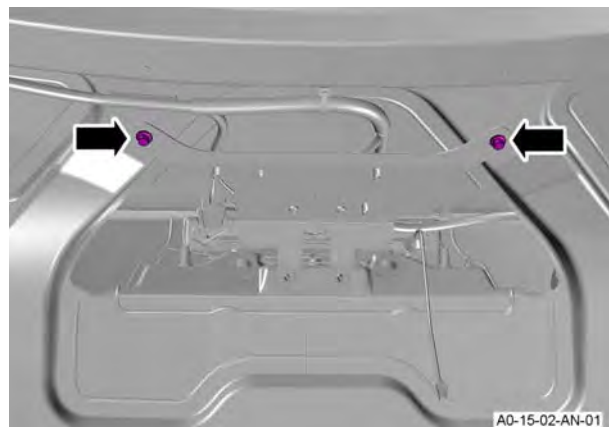
7. Move the bracket for the antenna into the correct position.



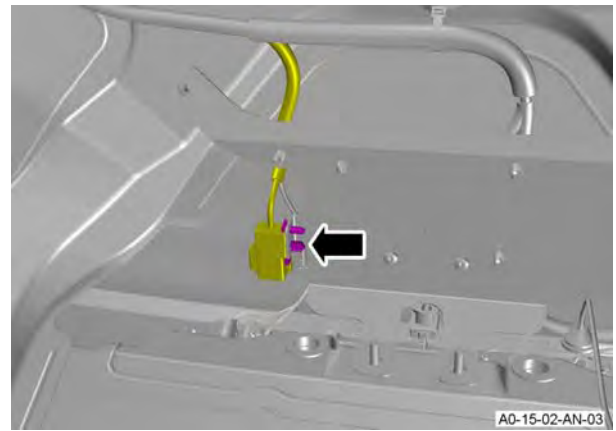
8. Install and tighten the two nuts that attach the bracket for the antenna to the boot lid.



9. Install and tighten the two screws that attach the bracket for the antenna to the boot lid.






10. Install the electrical connector to the clip that attaches it to the bracket for the antenna.



11. Install the trim panel for the boot lid (01.05.FJ - Trim Panel for the Boot Lid).
[\[Open Workshop Manual Procedure\]](#)

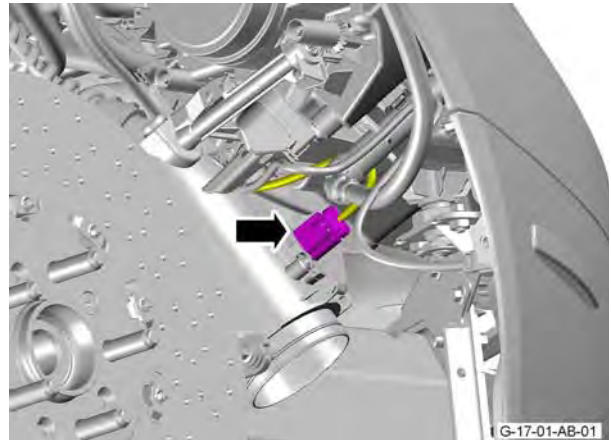
Published date: 2011-06-07 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****17.01.AB Right Side Headlamp Assembly (Remove and Install New Part)**

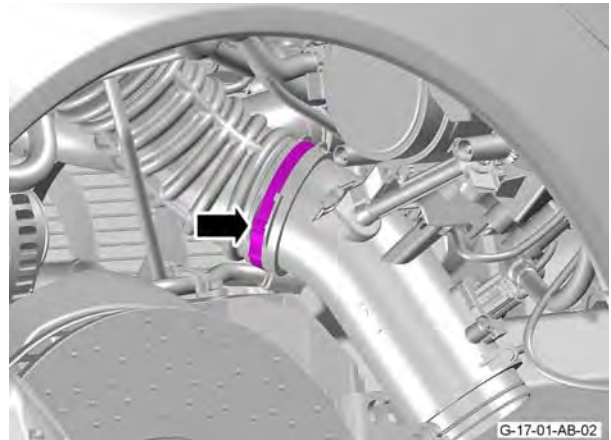
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

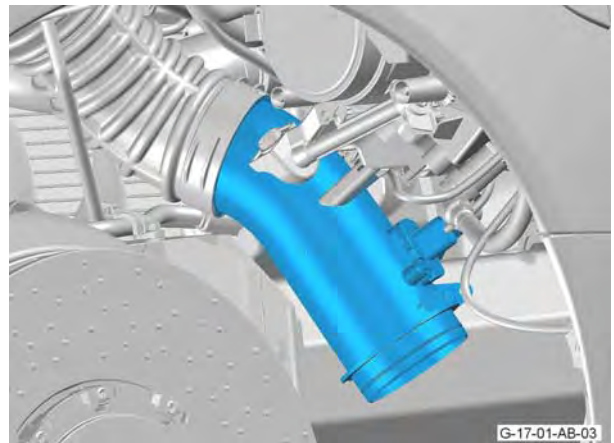
1. Do the battery disconnection procedure (14.01.CA - Battery Disconnection and Connection Procedure).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the right side air cleaner assembly (03.12.DH - Right Side Air Cleaner Assembly).
[\[Open Workshop Manual Procedure\]](#)
3. Disconnect the electrical connector from the Mass Air flow (MAF) sensor.



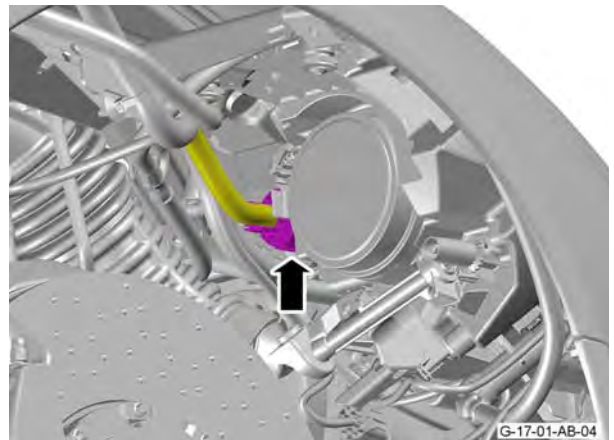
4. Remove the clip that attaches the outlet pipe for the air cleaner to the flexible duct for the throttle body..



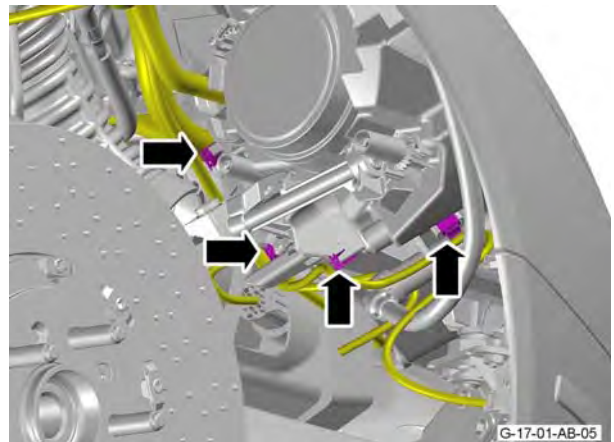
5. Remove the outlet pipe for the air cleaner.



6. Disconnect the electrical connector from the headlamp assembly.

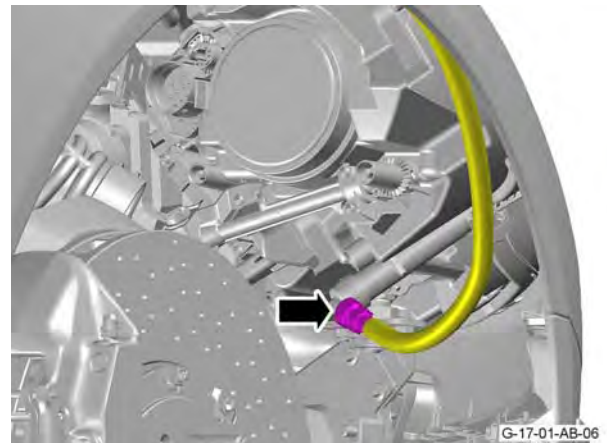


7. Release the four clips that attach the forward wiring harness to the headlamp assembly.



8.  **Caution: Prepare to collect the fluid. This will help to prevent damage to the vehicle.**

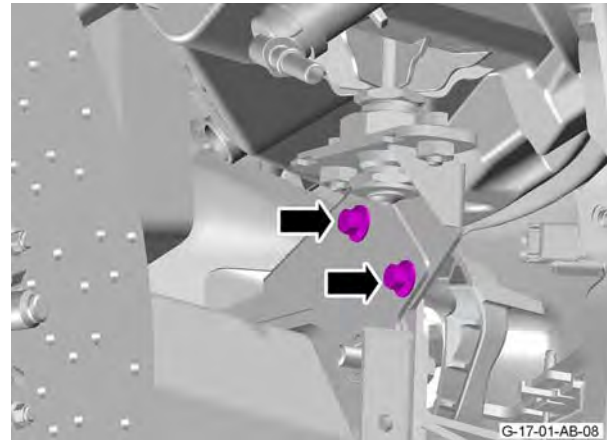
Disconnect the headlamp washer supply hose from the power wash unit for the headlamp.



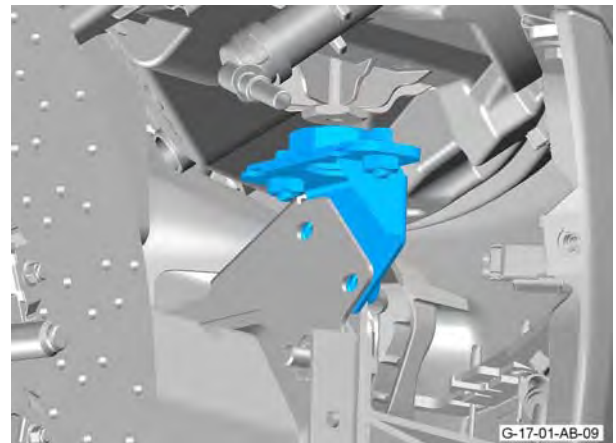
9. Remove the three bolts that attach the headlamp assembly to the body.



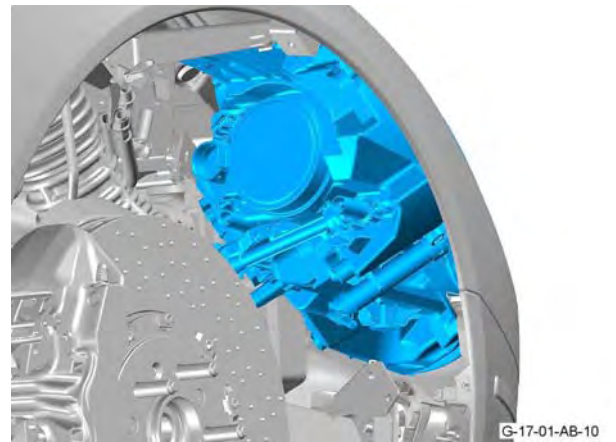
10. Remove the two bolts that attach the bracket for the lower headlamp mount to the body.



11. Remove the bracket for the lower headlamp mount.

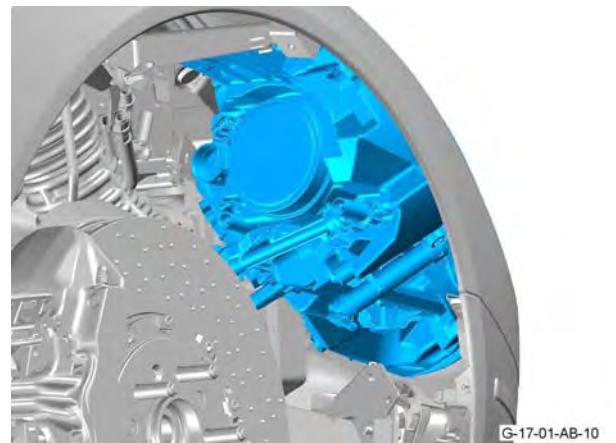


12. Remove the headlamp assembly.

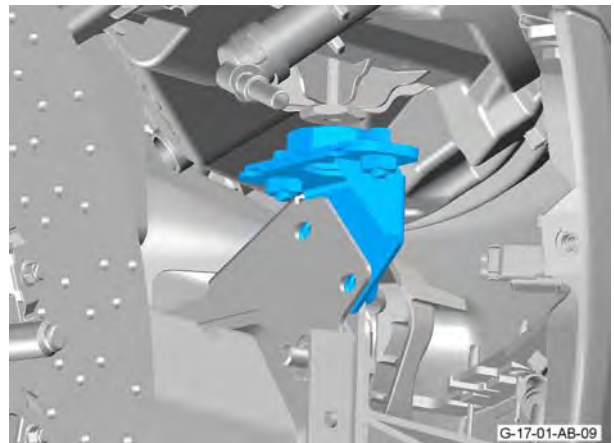


Install

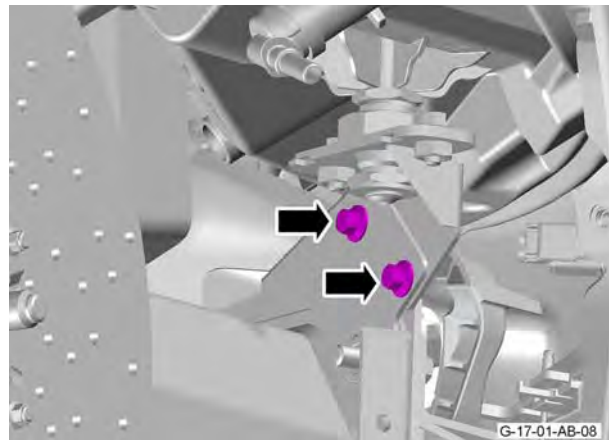
1. Install the headlamp assembly.



2. Install the bracket for the lower headlamp mount.



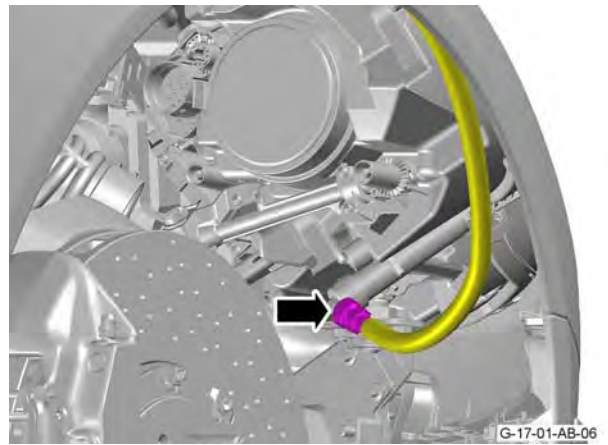
3. Install and tighten the two bolts that attach the bracket for the lower headlamp mount to the body.



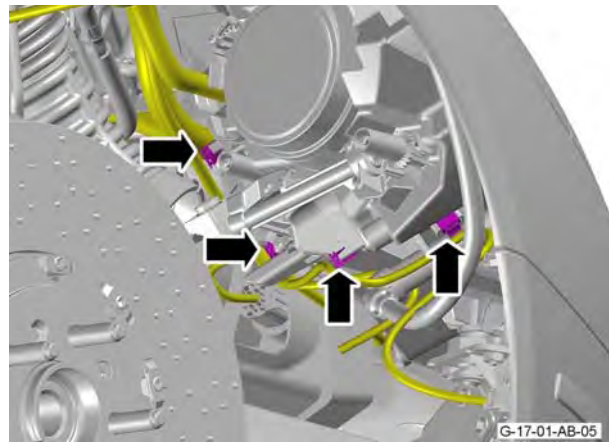
4. Install and tighten the three bolts that attach the headlamp assembly to the body.



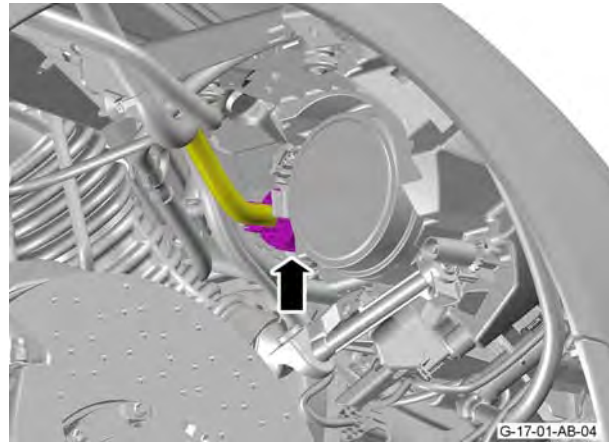
5. Connect the headlamp washer supply hose to the power wash unit for the headlamp.






6. Install the four clips that attach the forward wiring harness to the headlamp assembly.



7. Connect the electrical connector to the headlamp assembly.

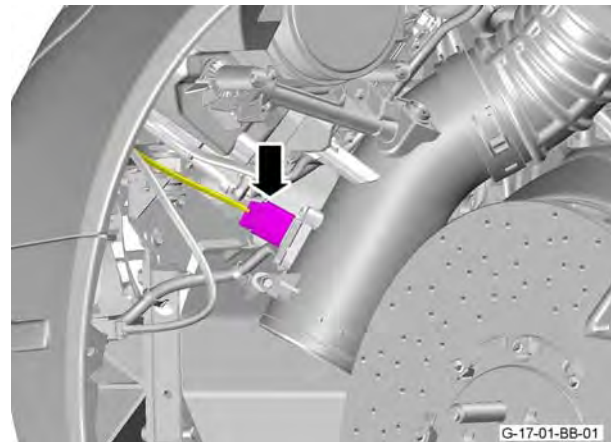


Small **Normal** **Large****17.01.BB Left Side Headlamp Assembly (Remove and Install New Part)**

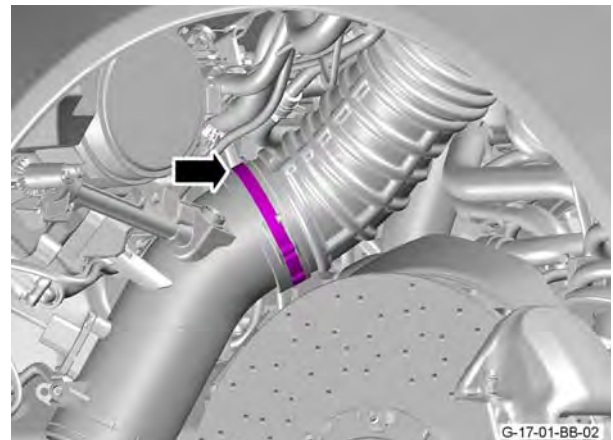
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

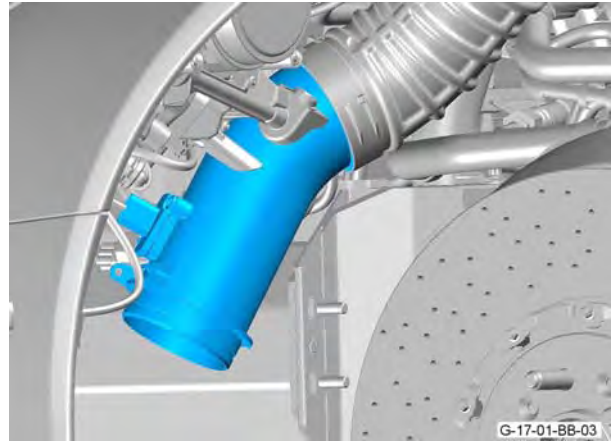
1. Do the battery disconnection procedure (14.01.CA - Battery Disconnection and Connection Procedure).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the left side air cleaner assembly (03.12.DJ - Left Side Air Cleaner Assembly).
[\[Open Workshop Manual Procedure\]](#)
3. Disconnect the electrical connector from the Mass Air flow (MAF) sensor.



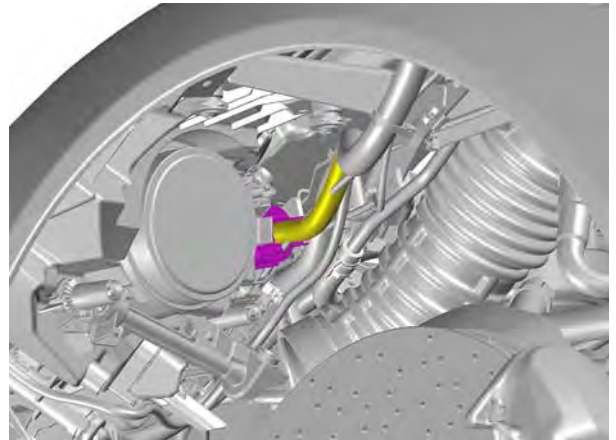
4. Remove the clip that attaches the outlet pipe for the air cleaner to the flexible duct for the throttle body..



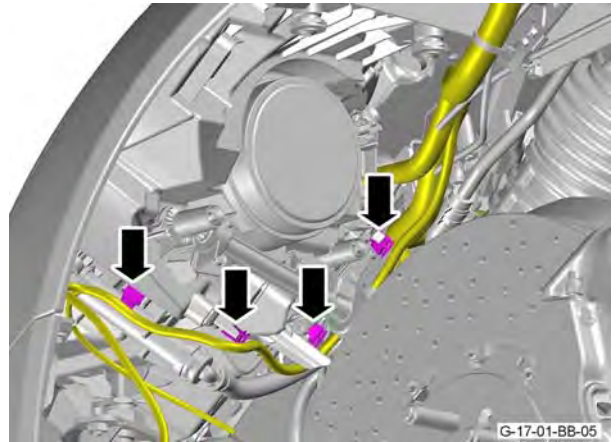
5. Remove the outlet pipe for the air cleaner.



6. Disconnect the electrical connector from the headlamp assembly.

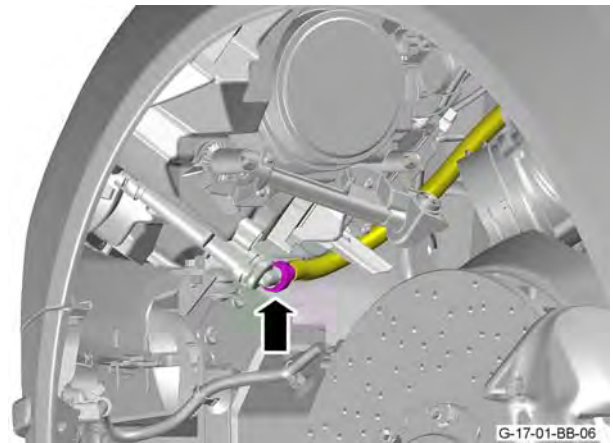


7. Release the four clips that attach the forward wiring harness to the headlamp assembly.



8.  **Caution: Prepare to collect the fluid. This will help to prevent damage to the vehicle.**

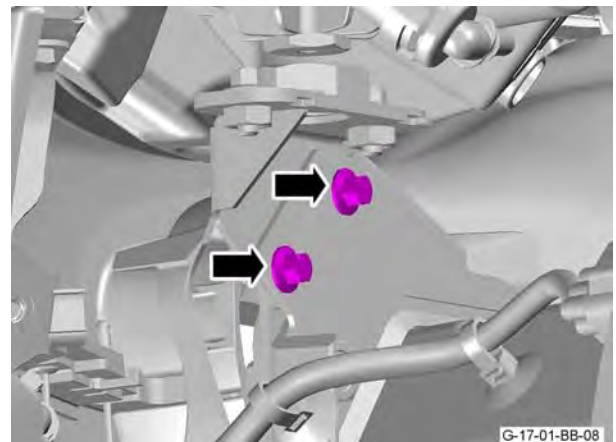
Disconnect the headlamp washer supply hose from the power wash unit for the headlamp.



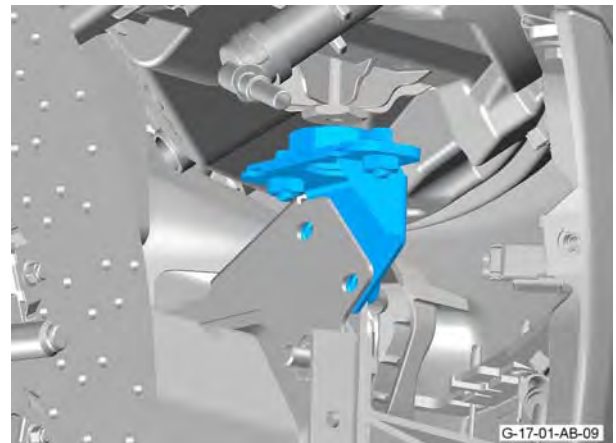
9. Remove the three bolts that attach the headlamp assembly to the body.



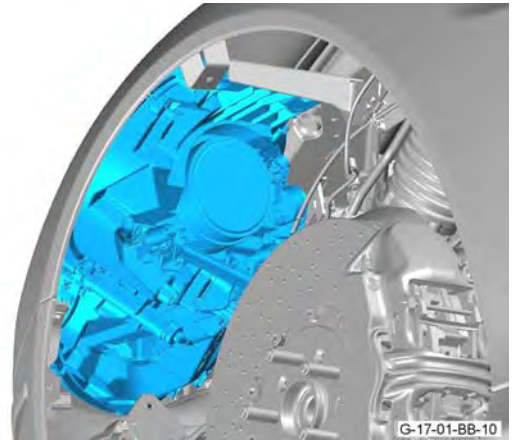
10. Remove the two bolts that attach the bracket for the lower headlamp mount to the body.



11. Remove the bracket for the lower headlamp mount.



12. Remove the headlamp assembly.

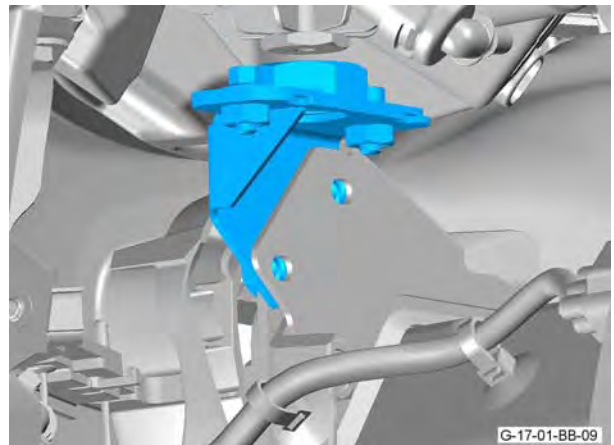


Install

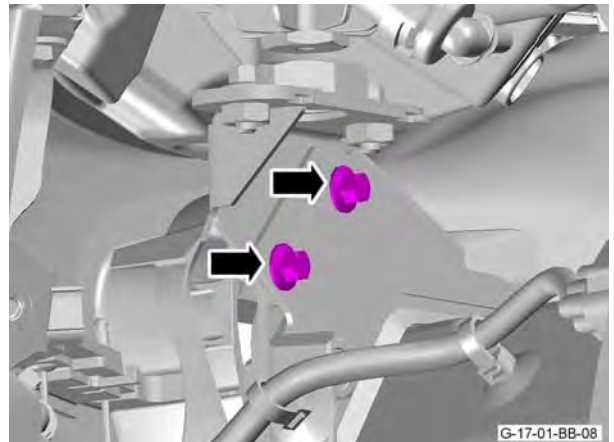
1. Install the headlamp assembly.



2. Install the bracket for the lower headlamp mount.



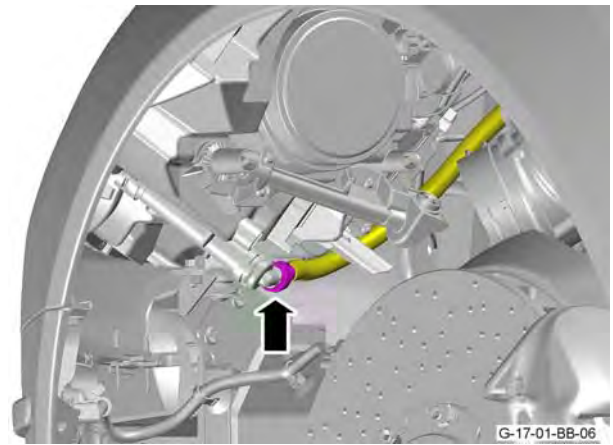
3. Install and tighten the two bolts that attach the bracket for the lower headlamp mount to the body.



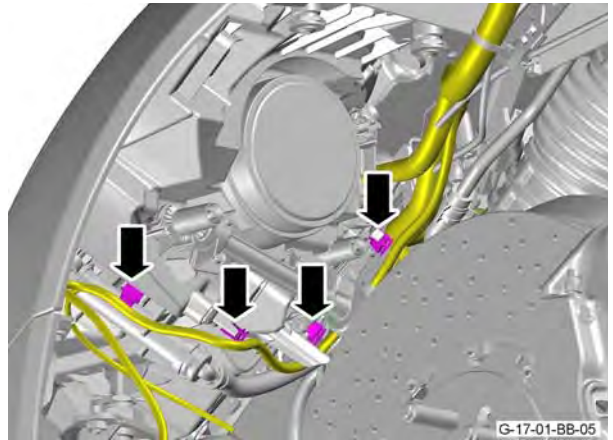
4. Install and tighten the three bolts that attach the headlamp assembly to the body.



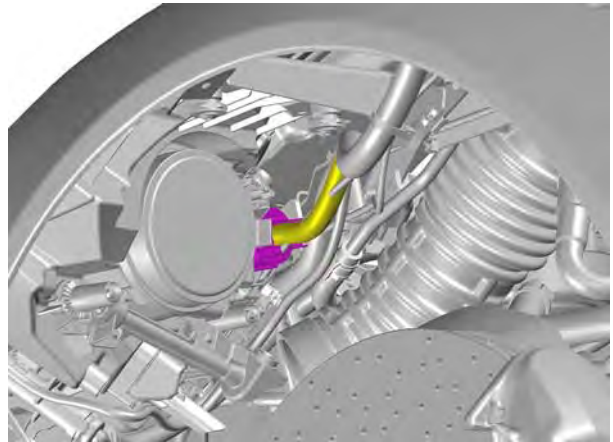
5. Connect the headlamp washer supply hose to the power wash unit for the headlamp.



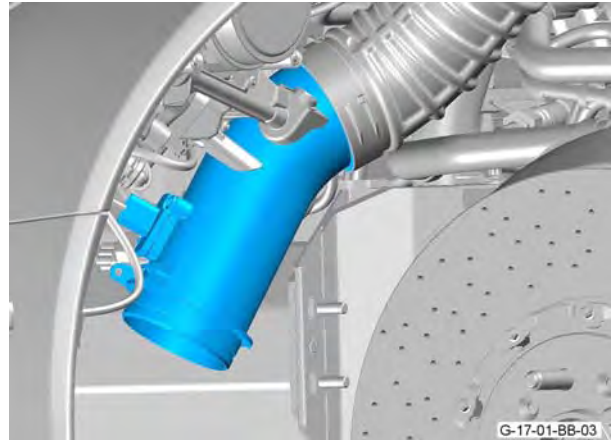
6. Install the four clips that attach the forward wiring harness to the headlamp assembly.



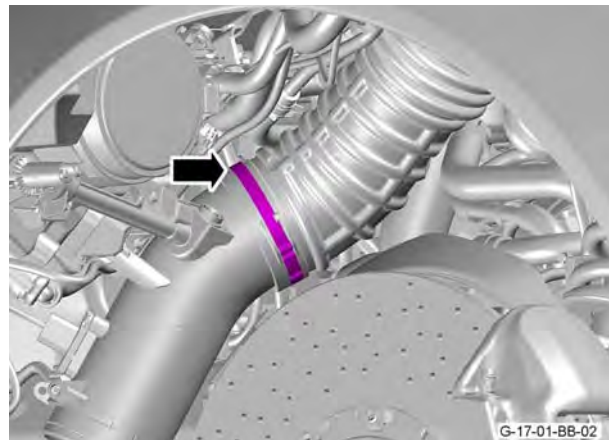
7. Connect the electrical connector to the headlamp assembly.



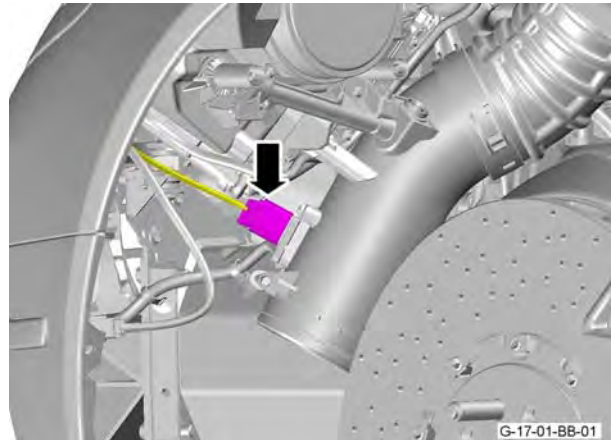
8. Install the outlet pipe for the air cleaner.



9. Install the clip that attaches the outlet pipe for the air cleaner to the flexible duct for the throttle body.






10. Connect the electrical connector from the MAF sensor.



11. Install the left side air cleaner assembly (03.12.DJ - Left Side Air Cleaner Assembly).
[\[Open Workshop Manual Procedure\]](#)
12. Check and fill the headlamp washer fluid.
13. Do the battery connection procedure (14.01.CA - Battery Disconnection and Connection Procedure).
[\[Open Workshop Manual Procedure\]](#)
14. Do the headlamp alignment procedure (17.01.BC - Headlamp Alignment).
[\[Open Workshop Manual Procedure\]](#)

Published date: 2011-05-03 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****17.01.BC Headlamp Alignment (Check and Adjust)**

-  WSM Data
-  Included Procedures
-  Is Used In

Check and Adjust

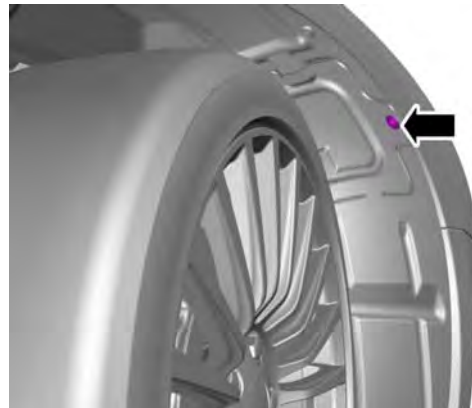
1. Position the setting equipment for the headlamp beam to the vehicle.
2. Set the ignition to the ON position.
3. Set the headlamp switch to the ON position.
4. Check the right side headlamp beam alignment.
5. Check the left side headlamp beam alignment.

-
1. Turn the wheel and tyre to get better access to the access panel in the wheel-arch liner.



F-17-01-CC-01

2. Loosen the screw that attaches the access panel to the wheel-arch liner.

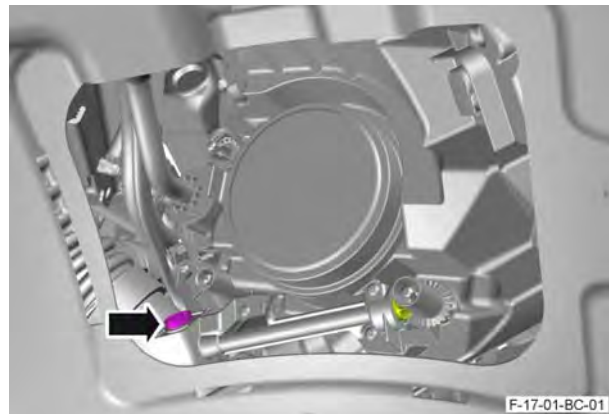


F-17-01-CC-02

3. Remove the access panel.



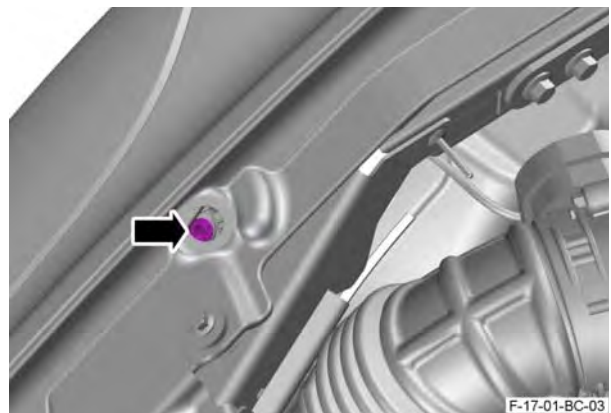
4. Turn the adjustment screw until the correct alignment is achieved.



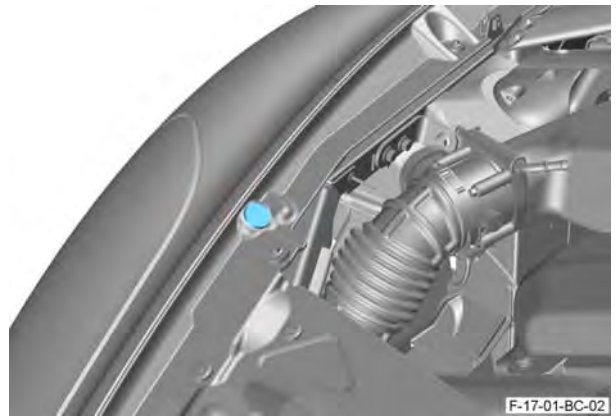
5. Remove the grommet to get access to the adjustment screw.



6. Turn the adjustment screw until the correct alignment is achieved.



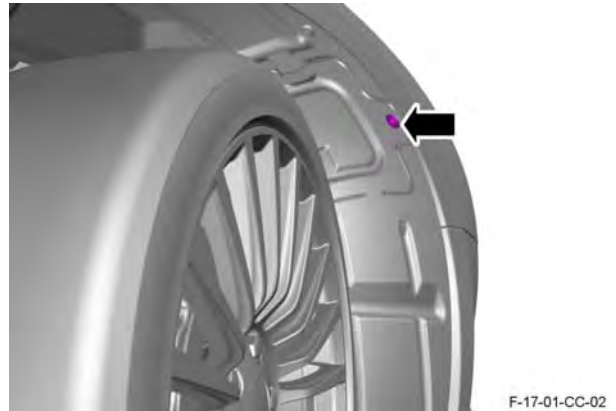
7. Install the grommet.



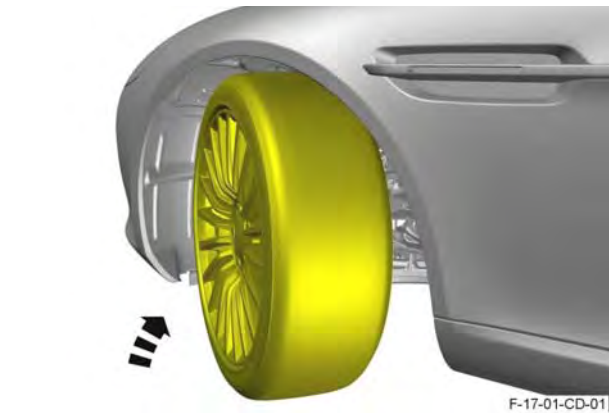
8. Put the access panel into position.



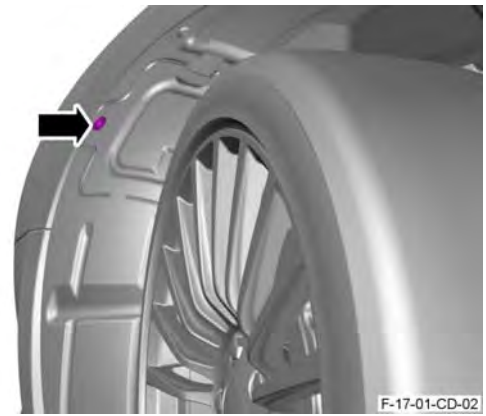
9. Tighten the screw that attaches the access panel to the wheel-arch liner.



10. Turn the wheel and tyre to get better access to the access panel in the wheel-arch liner.



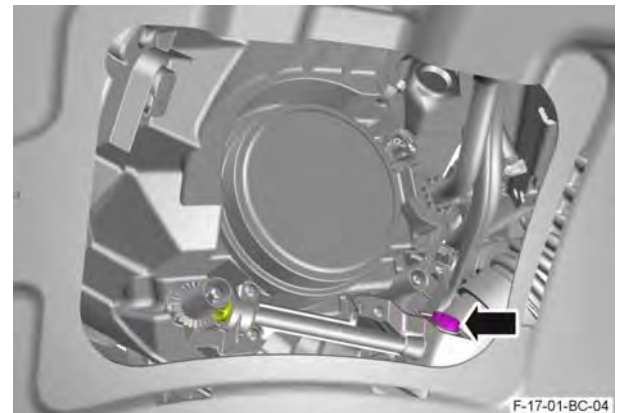
11. Loosen the screw that attaches the access panel to the wheel-arch liner.



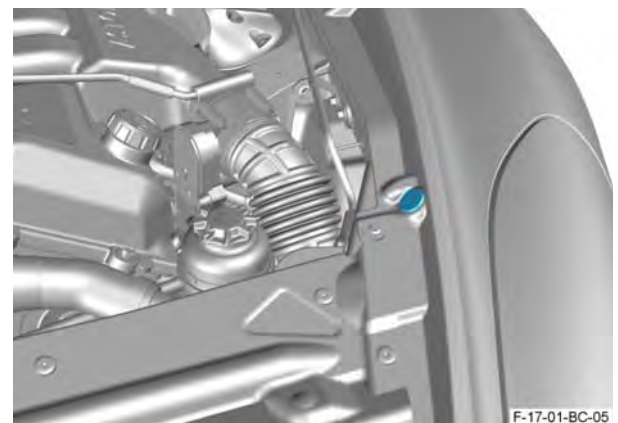
12. Remove the access panel.



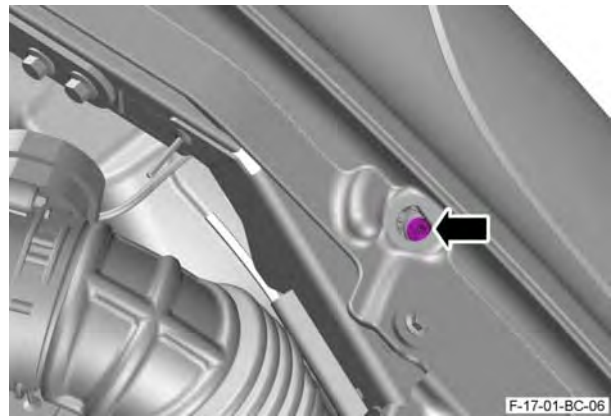
13. Turn the adjustment screw until the correct alignment is achieved.



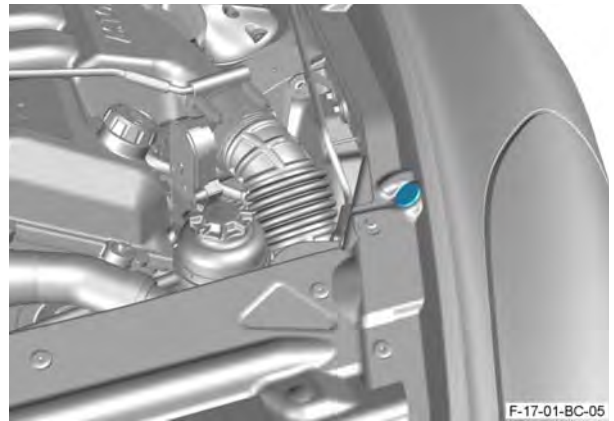
14. Remove the grommet to get access to the adjustment screw.



15. Turn the adjustment screw until the correct alignment is achieved.



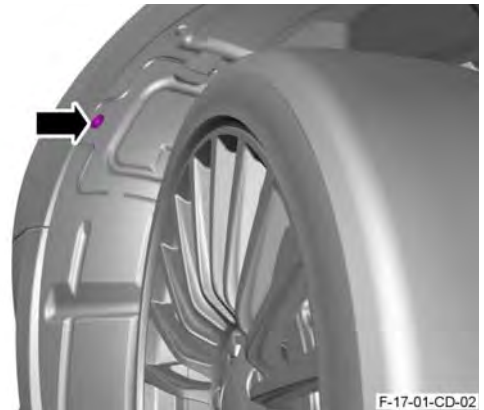
16. Install the grommet.



17. Put the access panel into position.



18. Tighten the screw that attaches the access panel to the wheel-arch liner.






19. Turn the wheel and tyre into the initial position.

20. Do a final check to make sure the headlamp beams are correctly aligned.
21. Set the headlamp switch to the OFF position.
22. Set the ignition to the OFF position.
23. Remove the setting equipment for the headlamp beam.

Published date: 2011-05-04 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****17.01.CC High Intensity Discharge (HID) Bulb for the Right Side Headlamp (Remove and Install New Part)**

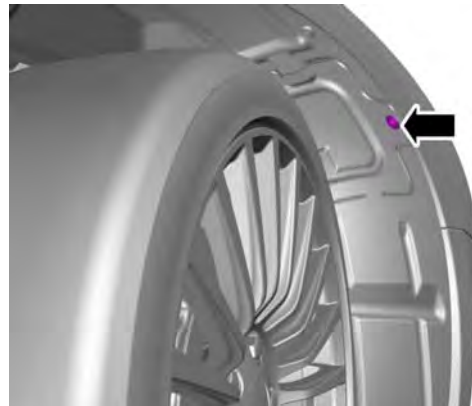
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

1. Turn the wheel and tyre to get better access to the access panel in the wheel-arch liner.





2. Do the battery disconnection procedure (14.01.CA - Battery Disconnection and Connection Procedure).
[\[Open Workshop Manual Procedure\]](#)
3. Loosen the screw that attaches the access panel to the wheel-arch liner.



4. Remove the access panel.

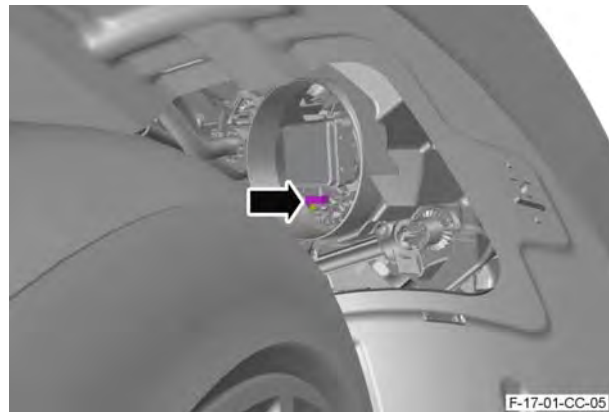


5.  **Warning: High Intensity Discharge (HID) bulbs start-up voltage can be 1000 V. Make sure that the power to the HID bulbs has been disconnected before you do maintenance to them. If you do not do this personal injury or death can occur.**
-  **Warning: HID bulbs get hot during operation. Let the headlamp assemblies cool for a minimum of 15 minutes before you do maintenance to them. If you do not do this burns to skin or clothing can occur.**

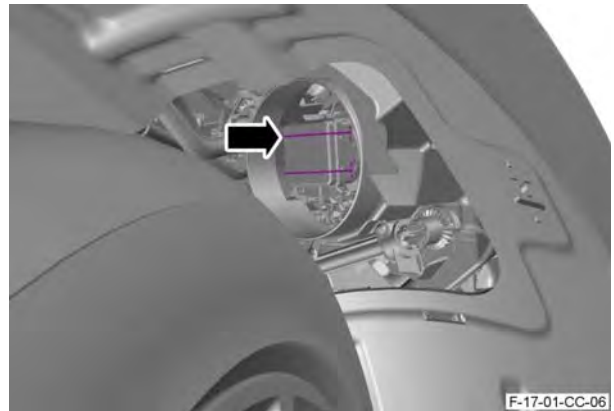
Remove the rubber access cover.



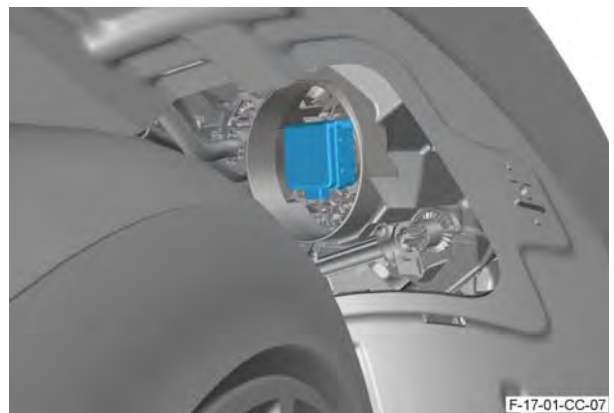
6. Disconnect the electrical connector from the HID bulb.



7. Release the spring clip that attaches the HID bulb to the headlamp.

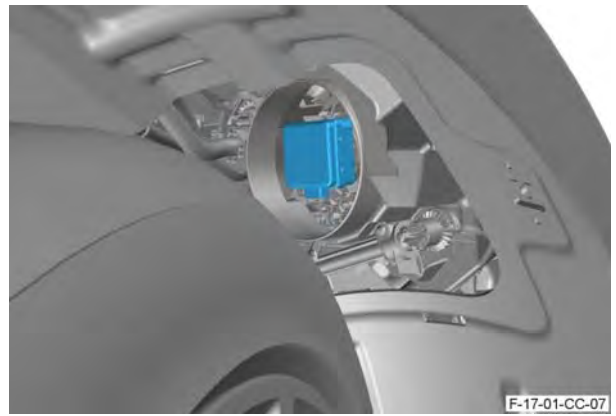


8. Remove the HID bulb.

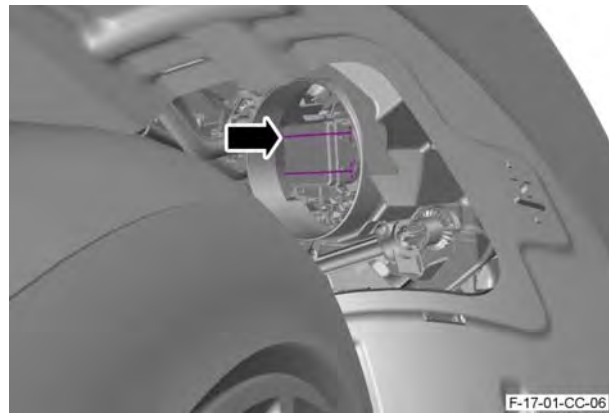


Install

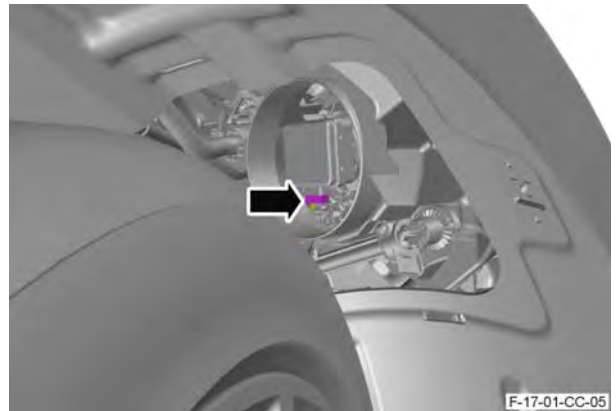
1. Put the HID bulb into position.



2. Install the spring clip that attaches the HID bulb to the headlamp.



3. Connect the electrical connector to the HID bulb.



4. Install the rubber access cover.

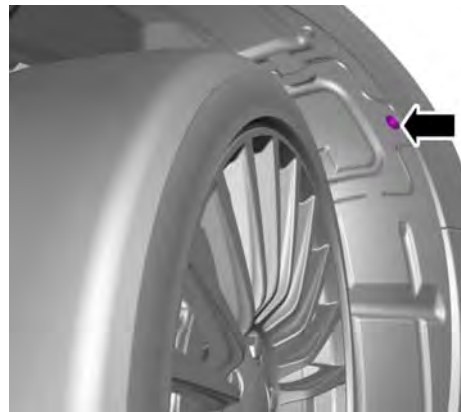


5. Put the access panel into position.



F-17-01-CC-03

6. Tighten the screw that attaches the access panel to the wheel-arch liner.






F-17-01-CC-02

7. Do the battery connection procedure (14.01.CA - Battery Disconnection and Connection Procedure).
[\[Open Workshop Manual Procedure\]](#)

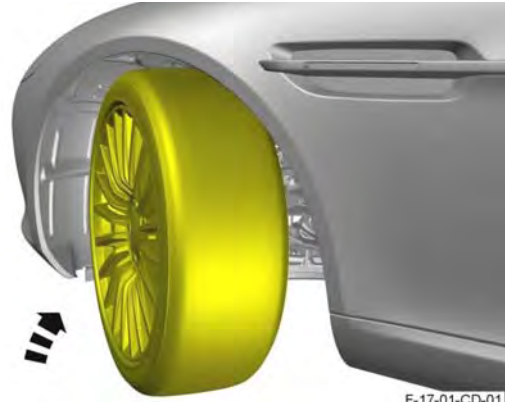
Published date: 2011-05-03 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****17.01.CD High Intensity Discharge (HID) Bulb for the Left Side Headlamp (Remove and Install New Part)**

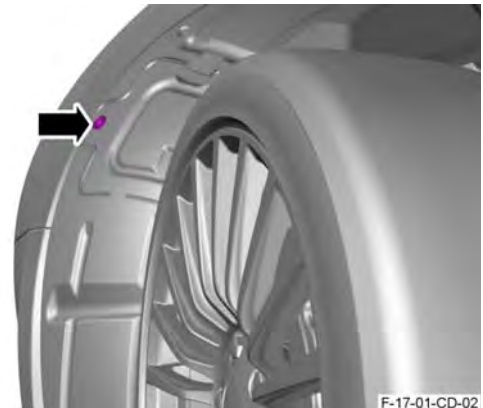
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

1. Turn the wheel and tyre to get better access to the access panel in the wheel-arch liner.





2. Do the battery disconnection procedure (14.01.CA - Battery Disconnection and Connection Procedure).
[\[Open Workshop Manual Procedure\]](#)
3. Loosen the screw that attaches the access panel to the wheel-arch liner.



4. Remove the access panel.



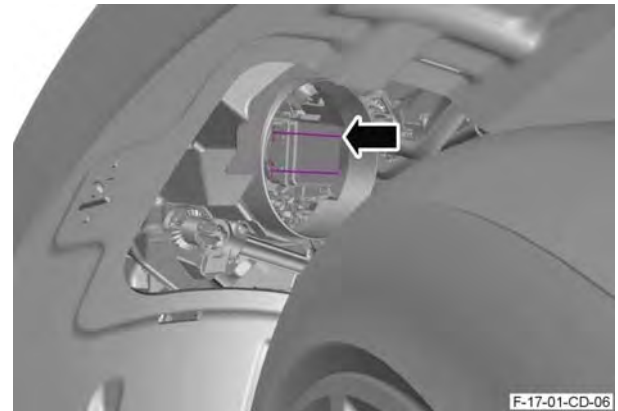
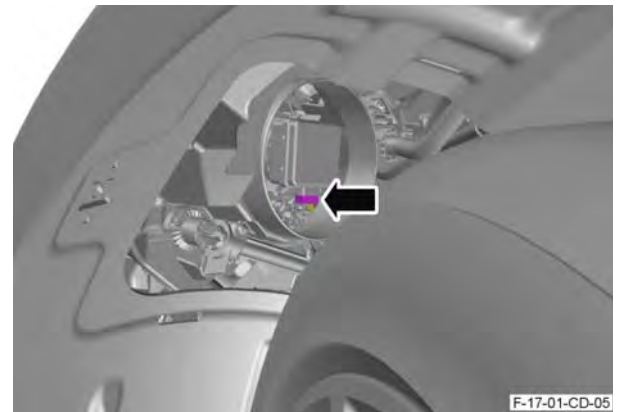
5.  **Warning: High Intensity Discharge (HID) bulbs start-up voltage can be 1000 V. Make sure that the power to the HID bulbs has been disconnected before you do maintenance to them. If you do not do this personal injury or death can occur.**
-  **Warning: HID bulbs get hot during operation. Let the headlamp assemblies cool for a minimum 15 minutes before you do maintenance to them. If you do not do this burns to skin or clothing can occur.**

Remove the rubber access cover.

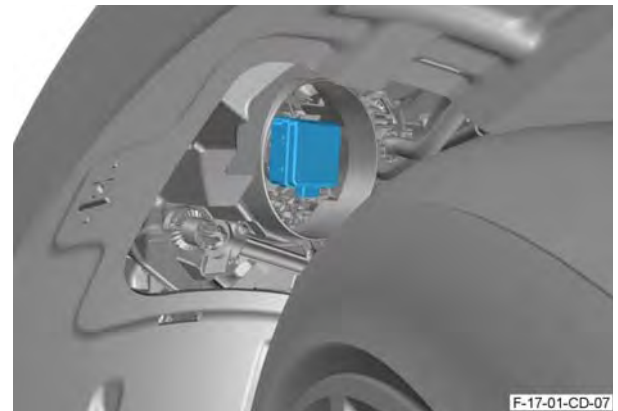
6. Disconnect the electrical connector from the HID bulb.



7. Release the spring clip that attaches the HID bulb to the headlamp.

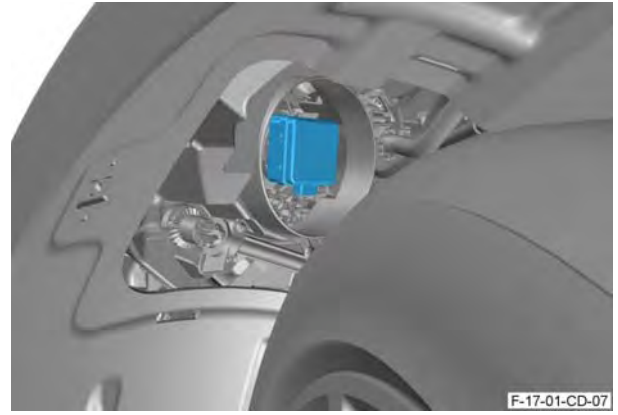


8. Remove the HID bulb.

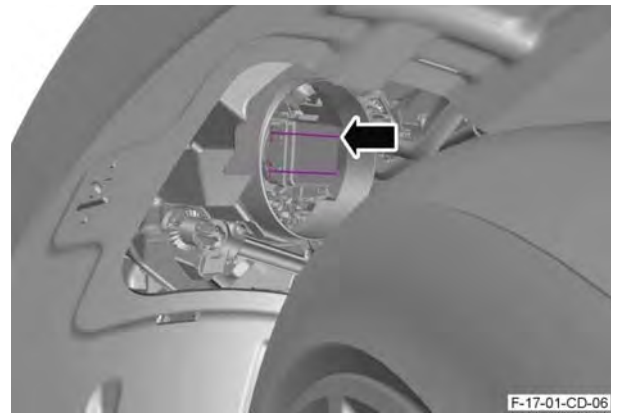


Install

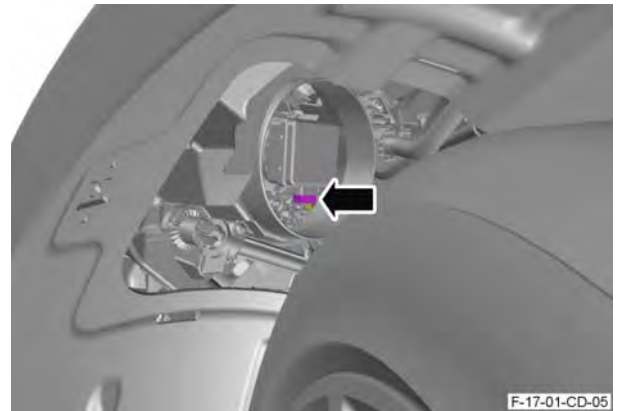
1. Put the HID bulb into position.



2. Install the spring clip that attaches the HID bulb to the headlamp.



3. Connect the electrical connector to the HID bulb.



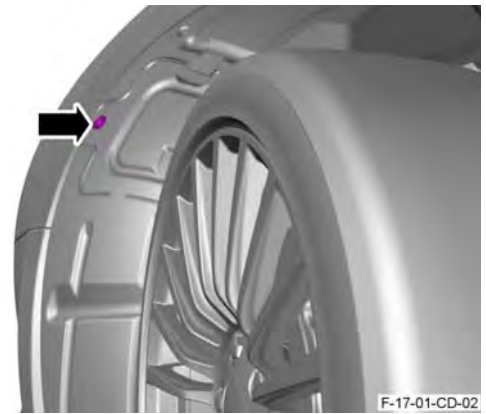
4. Install the rubber access cover.



5. Put the access panel into position.






6. Tighten the screw that attaches the access panel to the wheel-arch liner.



7. Do the battery connection procedure (14.01.CA - Battery Disconnection and Connection Procedure).
[\[Open Workshop Manual Procedure\]](#)

Published date: 2011-05-03 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****17.01.KE Right Side Side Repeater (Remove and Install New Part)**

-  WSM Data
-  Included Procedures
-  Is Used In

Removal

1. Remove the right side wing side strake (01.08.CG - Right Side Wing Side Strake).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the two screws that attach the side repeater to the wing side strake.



G-01-08-CG-05

3. Remove the side repeater.



G-01-08-CG-06

Install

1. Install the side repeater.



G-01-08-CG-06

2. Install and tighten the two screws that attach the side repeater to the wing side strake.






G-01-08-CG-05

3. Install the right side wing side strake (01.08.CG - Right Side Wing Side Strake).
[\[Open Workshop Manual Procedure\]](#)

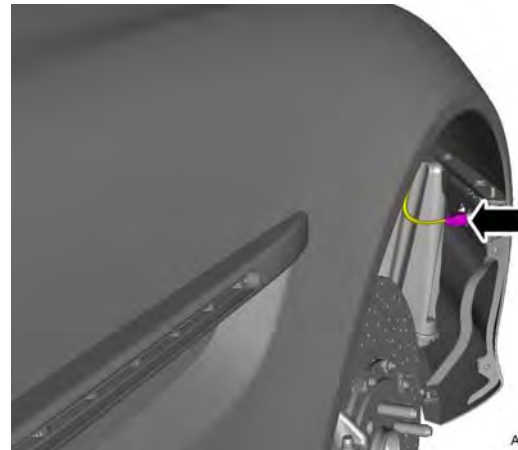
Published date: 2011-04-12 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****17.01.LB Right Side Front Side Marker (Remove and Install New Part)**

-  WSM Data
-  Included Procedures
-  Is Used In

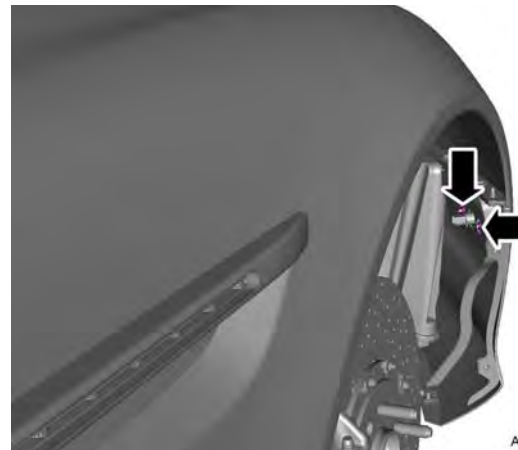
Removal

1. Remove the front right side wheel-arch liner (01.02.GB - Front Right Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)
2. Disconnect the electrical connector from the side marker.



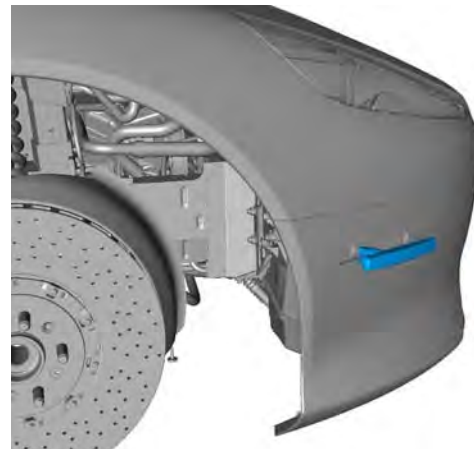
A0-17-01-LB-01

3. Remove the two nuts that attach the side marker to the body.



A0-17-01-LB-02

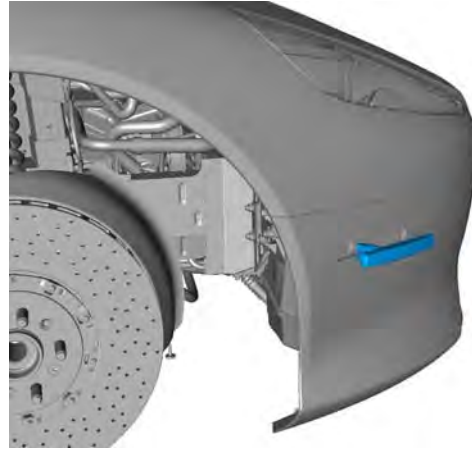
4. Remove the side marker.



A0-17-01-LB-03

Install

1. Put the side marker into position.



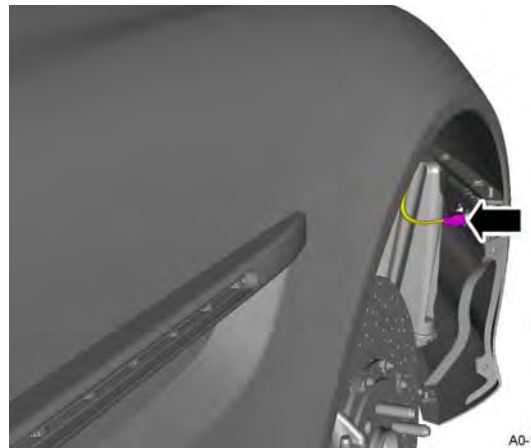
A0-17-01-LB-03

2. Install and tighten the two nuts that attach the side marker to the body.



A0-17-01-LB-02

3. Connect the electrical connector to the side marker.






A0-17-01-LB-01

4. Install the front right side wheel-arch liner (01.02.GB - Front Right Side Wheel-Arch Liner).

[\[Open Workshop Manual Procedure\]](#)

Published date: 2012-11-19 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****17.03.AA Left Side Rear Lamp Assembly (Remove and Install New Part)**

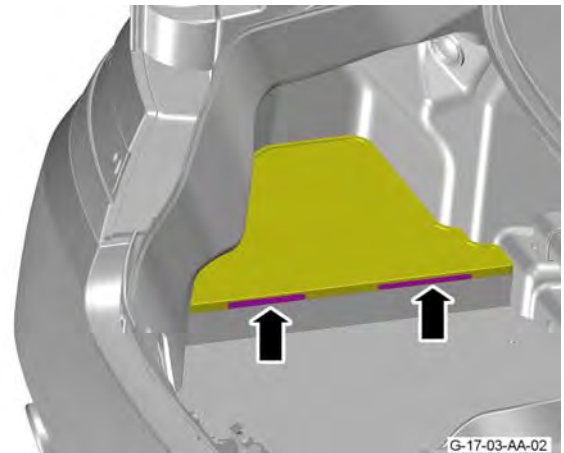
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

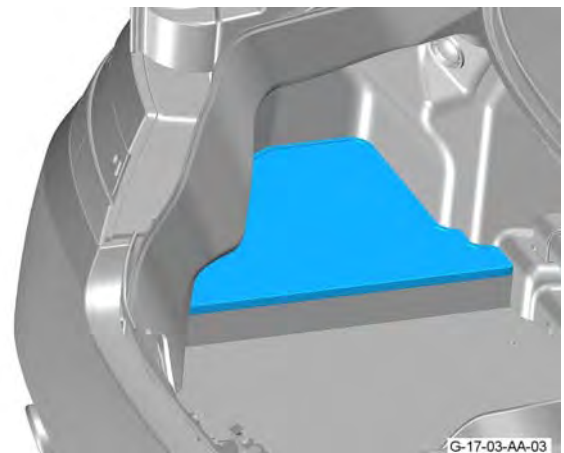
1. Remove the scuff plate for the luggage compartment (01.05.GA - Scuff Plate for the Luggage Compartment).
[\[Open Workshop Manual Procedure\]](#)
2. Release the rubber seal from the body.



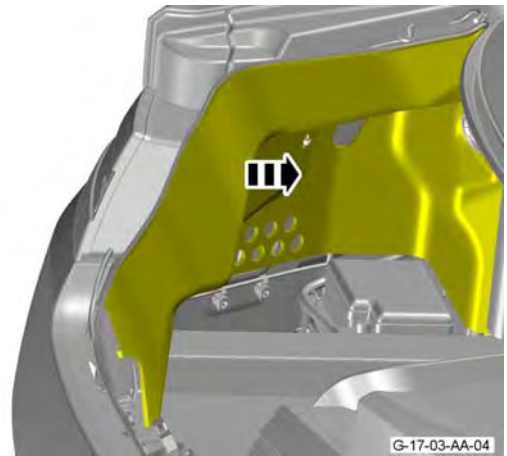
3. Release the left side floor carpet for the luggage compartment from the two Velcro strips that attach it to the body.



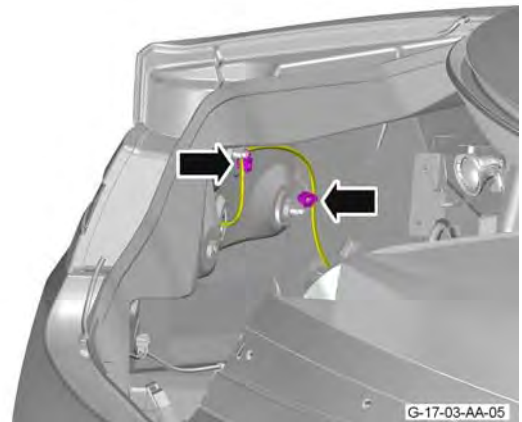
4. Remove the left side floor carpet for the luggage compartment.



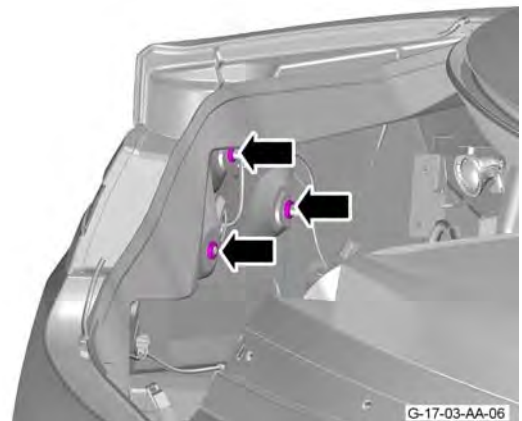
5. Move the left side carpet for the luggage compartment away from the body.



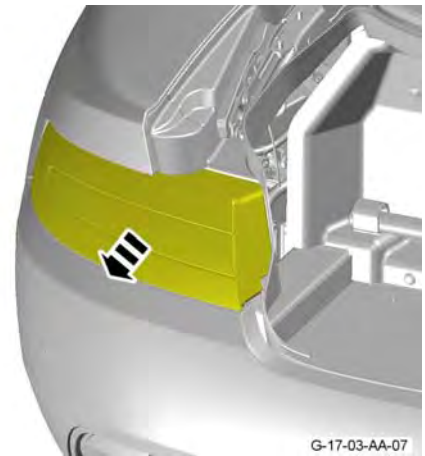
6. Release the wiring harness for the cabin from the two clips that attach it to the body.



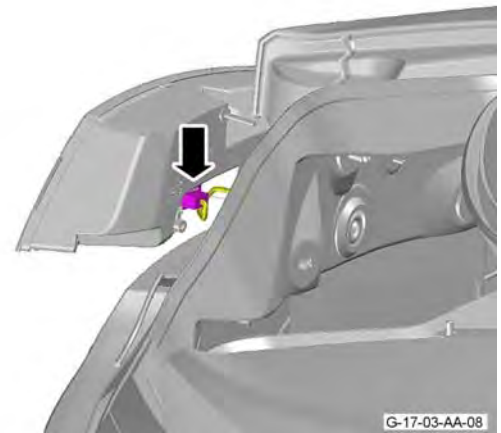
7. Remove the three nuts that attach the left side rear lamp assembly to the body.



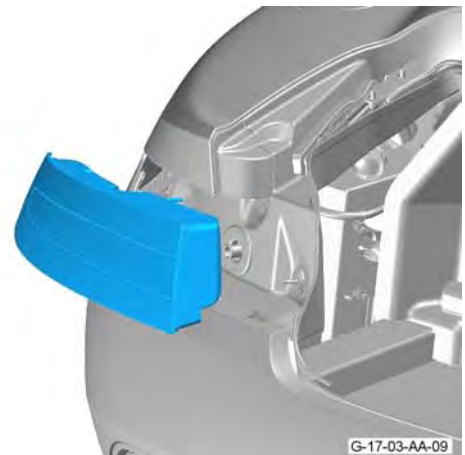
8. Move the left side rear lamp assembly away from the body.



9. Disconnect the electrical connector from the left side rear lamp assembly.



10. Remove the left side rear lamp assembly.



11. Release the rear lamp finisher from the adhesive tape.



A0-17-03-AA-01

12. Remove the rear lamp finisher.



A0-17-03-AA-02

Install

1. Clean the mating faces between the rear lamp finisher and the rear lamp.
2. Install new adhesive tape to the rear lamp.



A0-17-03-AA-03

- Put the rear lamp finisher into position.



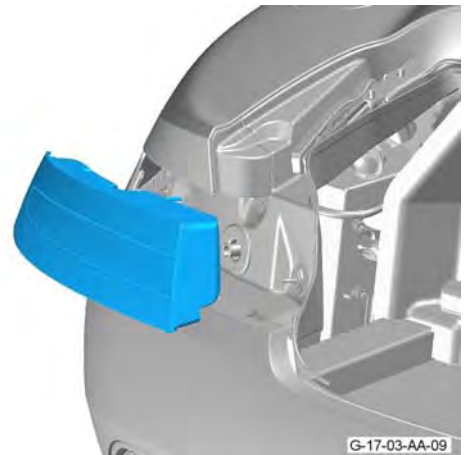
A0-17-03-AA-02

- Install the rear lamp finisher to the rear lamp.

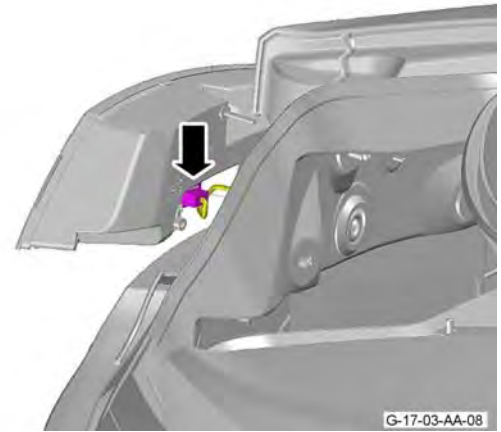


A0-17-03-AA-01

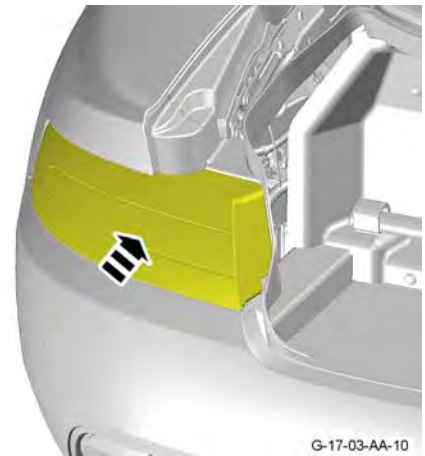
- Install the left side rear lamp assembly.



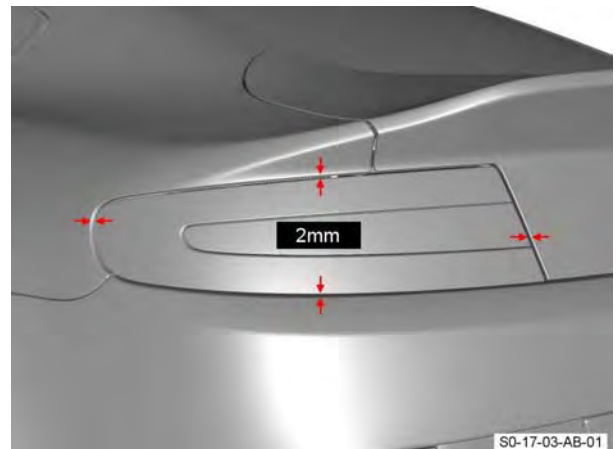
6. Connect the electrical connector to the left side rear lamp assembly.



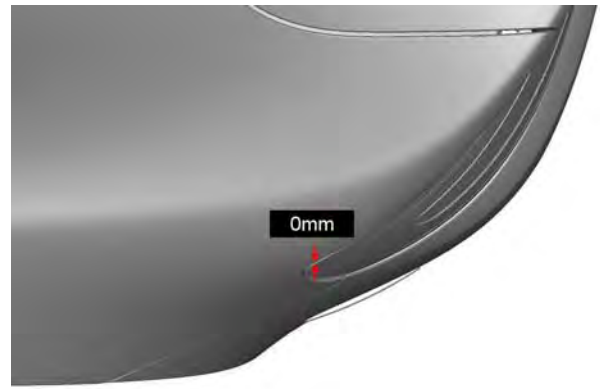
7. Move the left side rear lamp assembly into position.



8. Align the rear lamp assembly to the body panels. Make sure there is a 2mm gap.

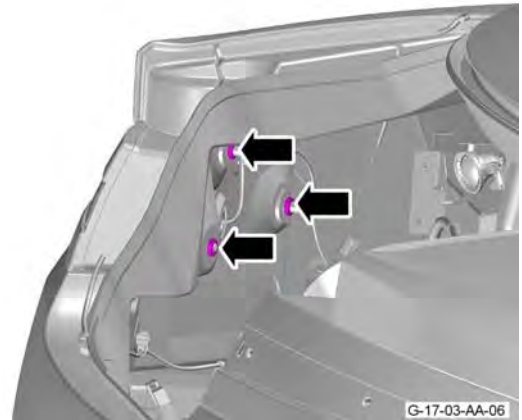


- Align the rear lamp assembly to the rear quarter panel. Make sure the rear lamp assembly is aligned flush with the rear quarter panel.



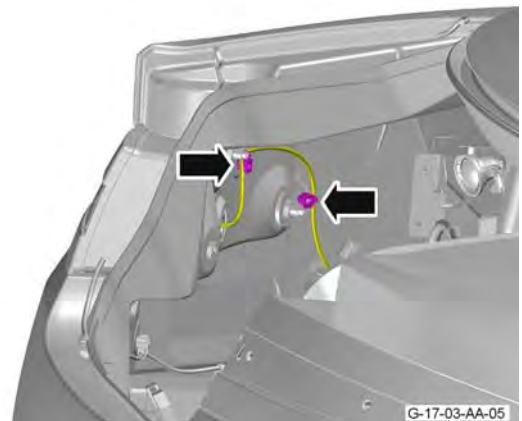
S0-17-03-AB-02

- Install and torque the three nuts that attach the left side rear lamp assembly to the body to ** Nm.



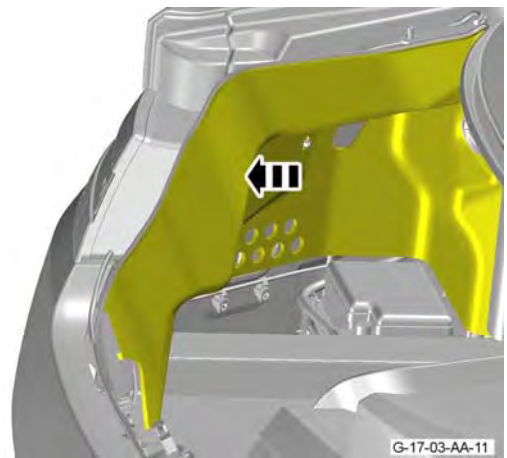
G-17-03-AA-06

- Install the wiring harness for the cabin to the two clips that attach it to the body.

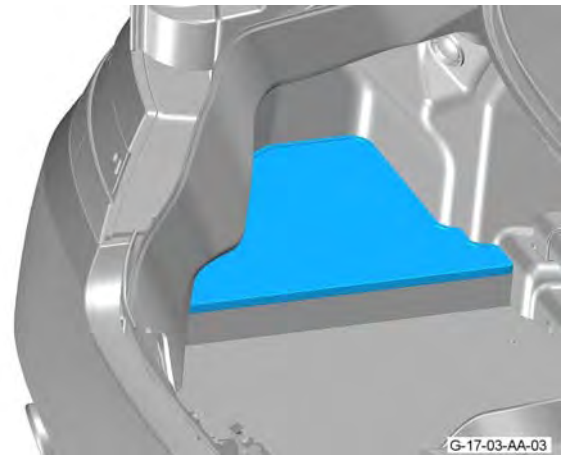


G-17-03-AA-05

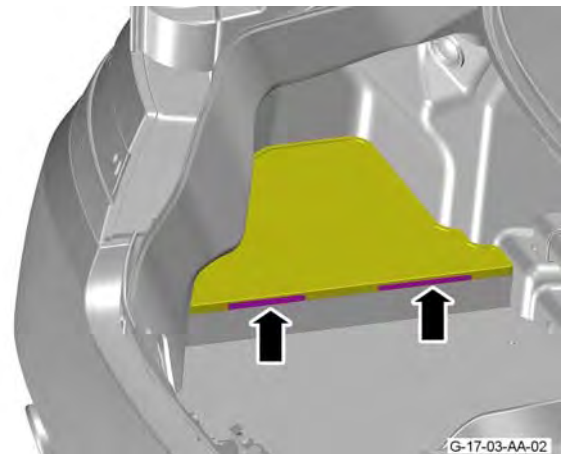
12. Move the left side carpet for the luggage compartment into the correct position.



13. Put the left side floor carpet for the luggage compartment into position.



14. Install the left side floor carpet for the luggage compartment to the two Velcro strips that attach it to the body.



15. Install the rubber seal to the body.






16. Install the scuff plate for the luggage compartment (01.05.GA - Scuff Plate for the Luggage Compartment).

[\[Open Workshop Manual Procedure\]](#)

Published date: 2011-04-19 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****17.03.AB Right Side Rear Lamp Assembly (Remove and Install New Part)**

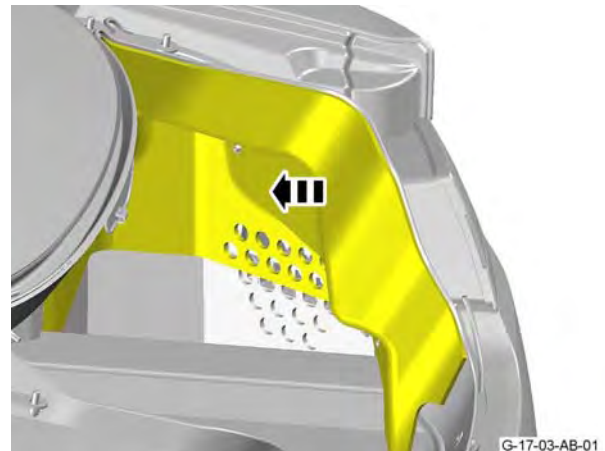
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

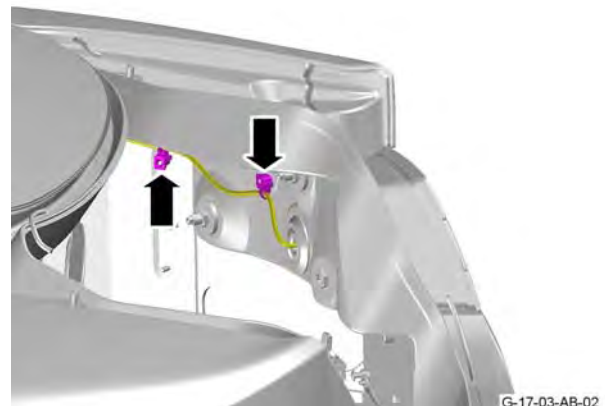
1. Remove the scuff plate for the luggage compartment (01.05.GA - Scuff Plate for the Luggage Compartment).
[\[Open Workshop Manual Procedure\]](#)
2. Release the rubber seal from the body.




3. Move the top right side carpet for the luggage compartment away from the body.

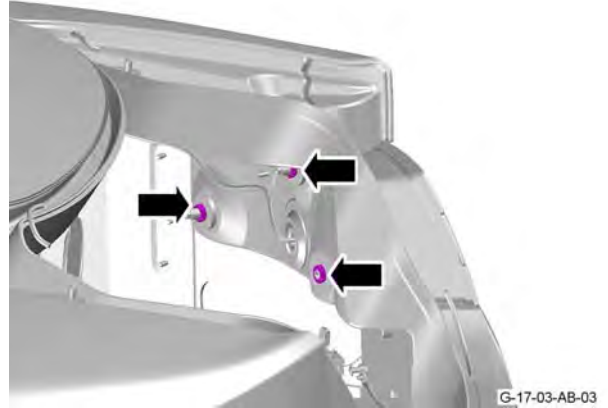


4. Release the wiring harness for the cabin from the two clips that attach it to the body.

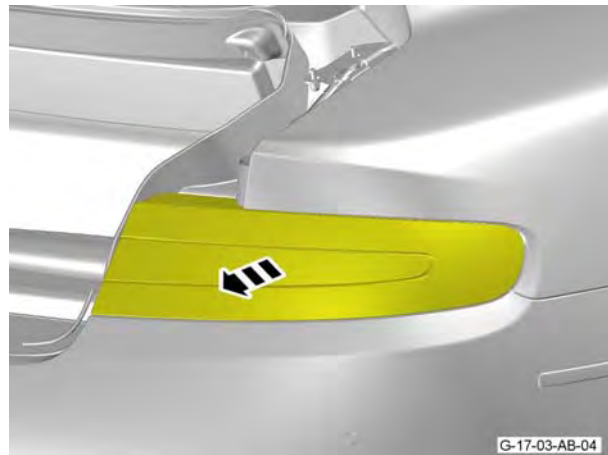


5.  *Note: Collect the washers and spring washers when the nuts are removed.*

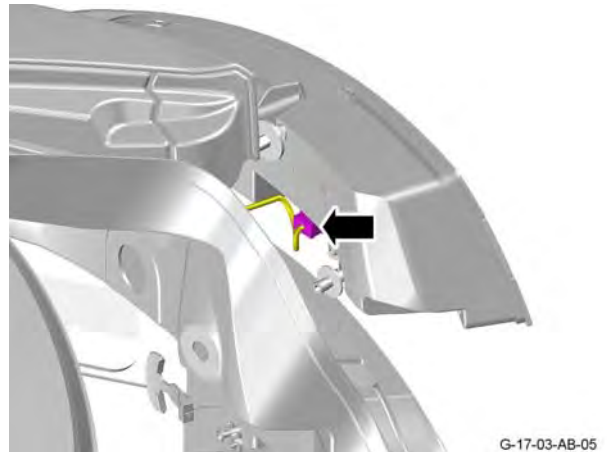
Remove the three nuts that attach the rear lamp assembly to the body.



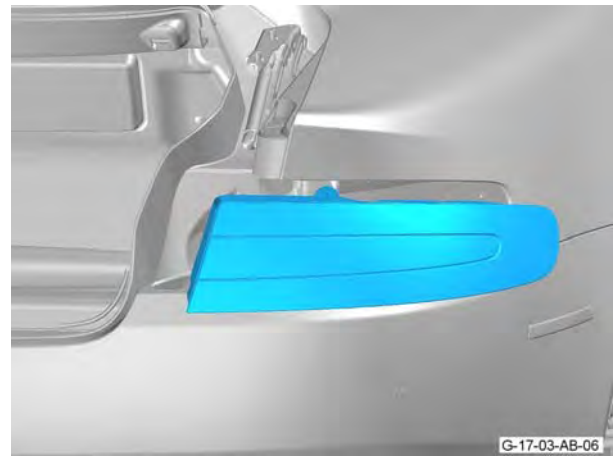
6. Move the rear lamp assembly away from the body.



7. Disconnect the electrical connector from the rear lamp assembly.



8. Remove the rear lamp assembly.



9. Release the rear lamp finisher from the adhesive tape.



A0-17-03-AB-01

10. Remove the rear lamp finisher.

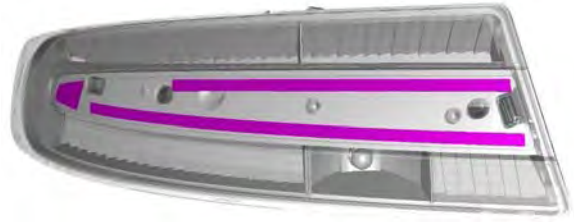


A0-17-03-AB-02

Install

1. Clean the mating faces between the rear lamp finisher and the rear lamp.

2. Install new adhesive tape to the rear lamp.



A0-17-03-AA-03

3. Put the rear lamp finisher into position.



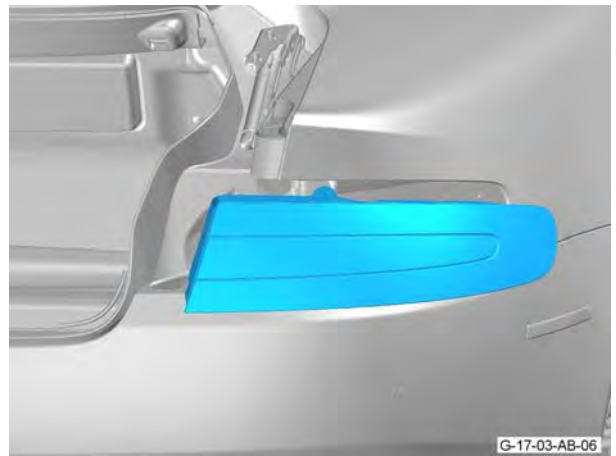
A0-17-03-AA-02

4. Install the rear lamp finisher to the rear lamp.

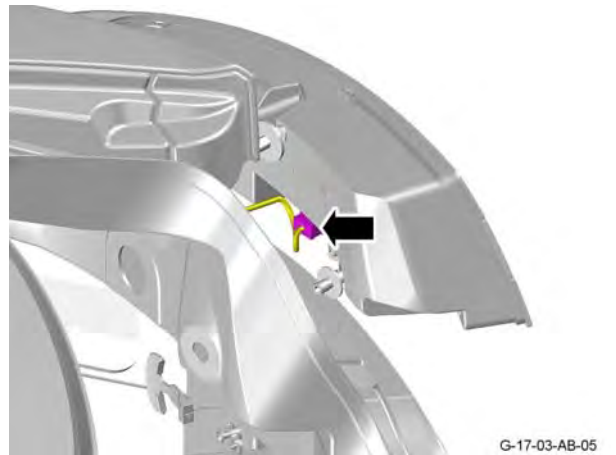


A0-17-03-AA-01

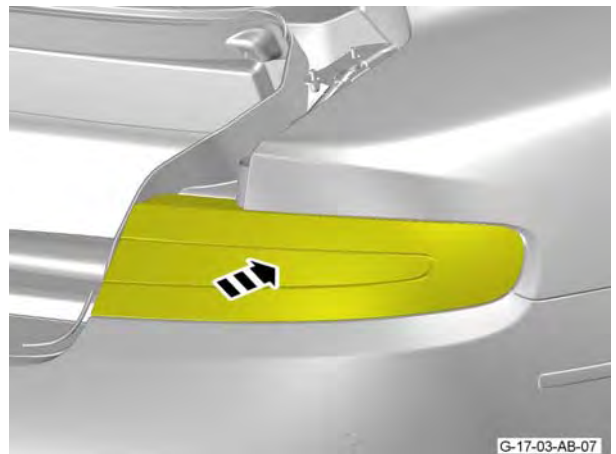
5. Install the rear lamp assembly.



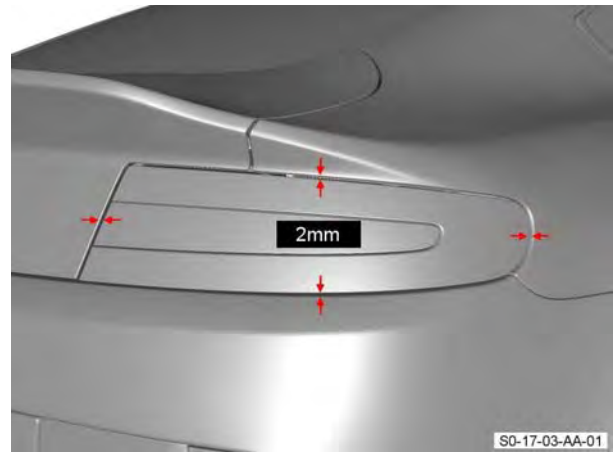
6. Connect the electrical connector to the rear lamp assembly.



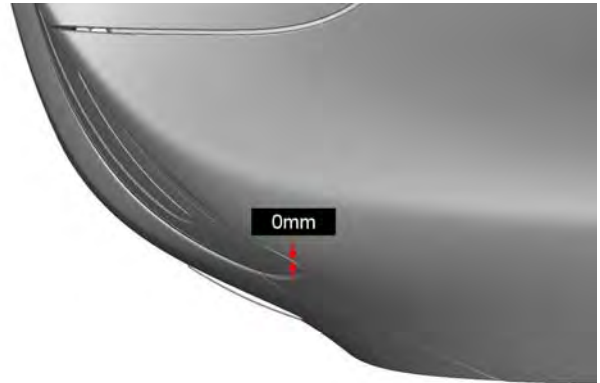
7. Move the rear lamp assembly into position.




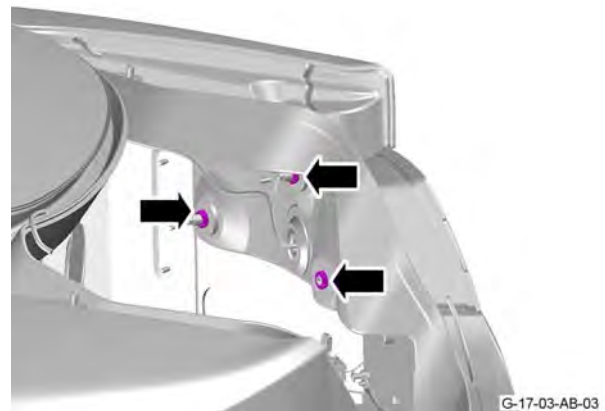
8. Align the rear lamp assembly to the body panels. Make sure there is a 2mm gap.



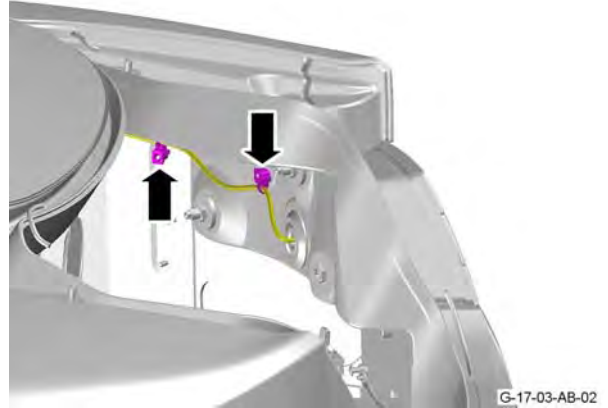
9. Align the rear lamp assembly to the rear quarter panel. Make sure the rear lamp assembly is aligned flush with the rear quarter panel.



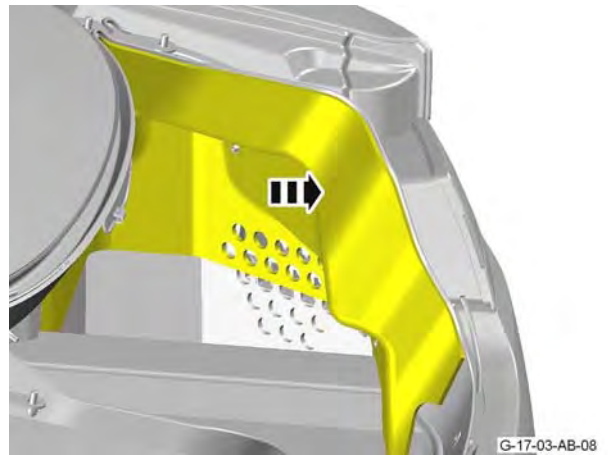
10.  *Note: Install the washers and spring washers before the nuts are installed.*
Install and torque the three nuts that attach the rear lamp assembly to the body to 7 Nm.



11. Install the wiring harness for the cabin to the two clips that attach it to the body.



12. Move the top right side carpet for the luggage compartment into the correct position.






13. Install the rubber seal to the body.



14. Install the scuff plate for the luggage compartment (01.05.GA - Scuff Plate for the Luggage Compartment).
[\[Open Workshop Manual Procedure\]](#)

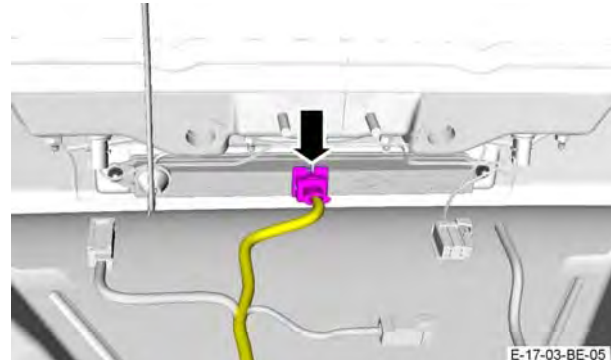
Published date: 2011-04-19 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****17.03.BE High-Mounted Stop Lamp (Remove and Install New Part)**

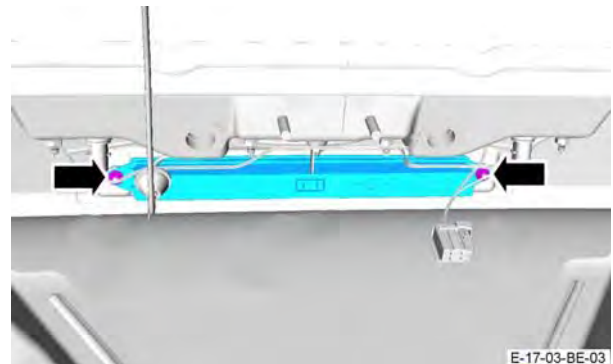
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

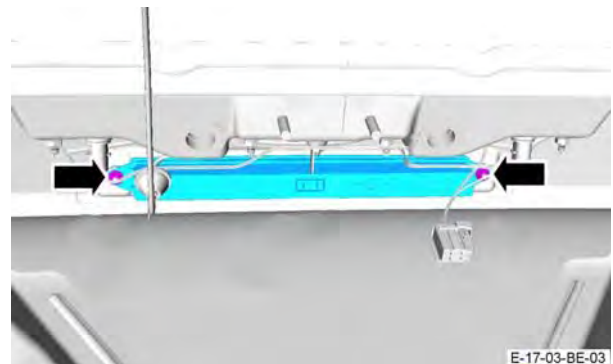
1. Remove the antenna for the Satellite Digital Audio Receiver System (SDARS) (15.02.AN - Antenna for the Satellite Digital Audio Receiver System (SDARS)).
[\[Open Workshop Manual Procedure\]](#)
2. Disconnect the electrical connector from the high-mounted stop lamp.



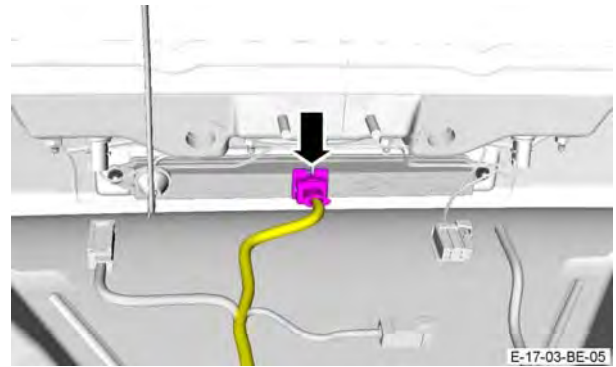
3. Remove the two nuts and remove the high-mounted stop lamp.

*Install*

1. Install the high-mounted stop lamp and install and tighten the two nuts.



2. Connect the electrical connector to the high-mounted stop lamp.









3. Install the antenna for the SDARS (15.02.AN - Antenna for the Satellite Digital Audio Receiver System (SDARS)).

[\[Open Workshop Manual Procedure\]](#)

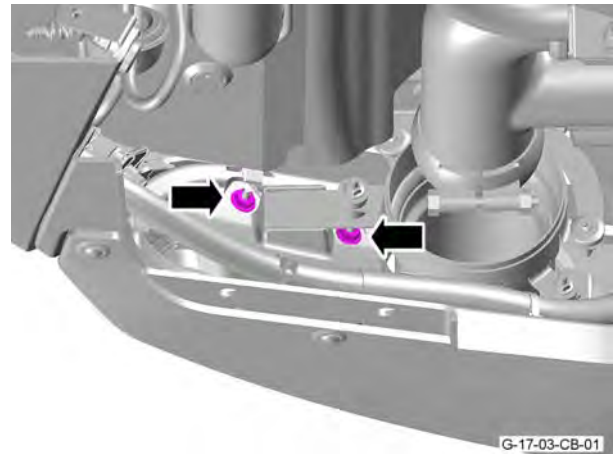
Published date: 2011-05-04 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****17.03.CB Right Side Reflector (Remove and Install New Part)**

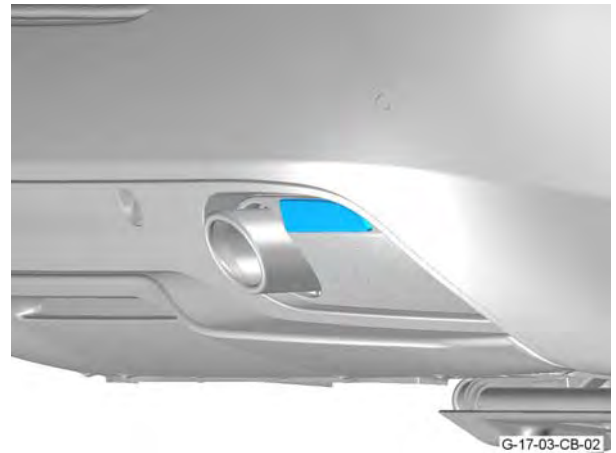
-   WSM Data
-   Included Procedures
-   Is Used In

Removal

1. Remove the rear right side wheel-arch liner (01.02.HB - Rear Right Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the two nuts that attach the reflector to the rear diffuser.

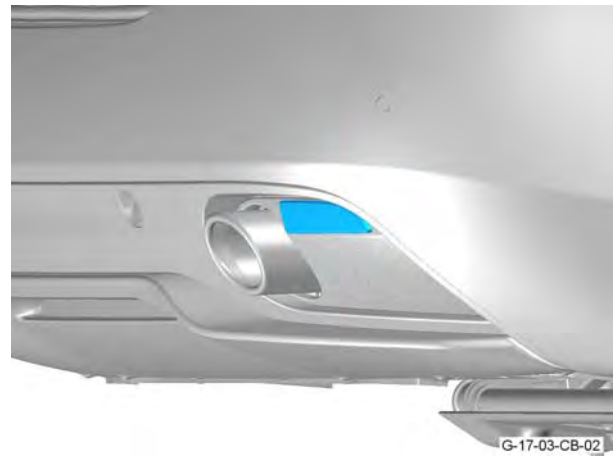


3. Remove the reflector.

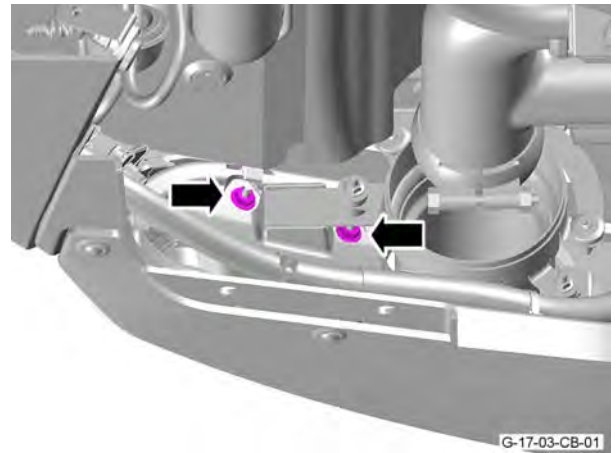


Install

1. Install the reflector.






2. Install and tighten the two nuts that attach the reflector to the rear diffuser.



3. Install the rear right side wheel-arch liner (01.02.HB - Rear Right Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)

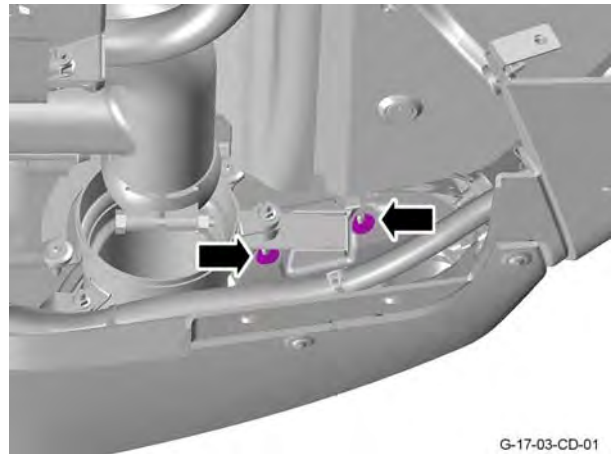
Published date: 2011-04-20 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****17.03.CD Left Side Reflector (Remove and Install New Part)**

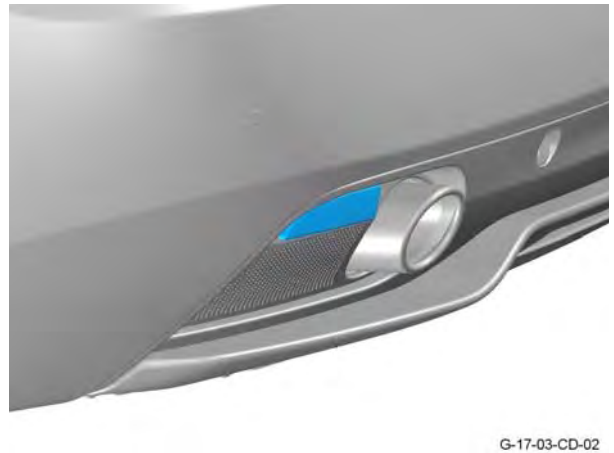
-  WSM Data
-  Included Procedures
-  Is Used In

Removal

1. Remove the rear left side wheel-arch liner (01.02.JB - Rear Left Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the two nuts that attach the reflector to the rear diffuser.

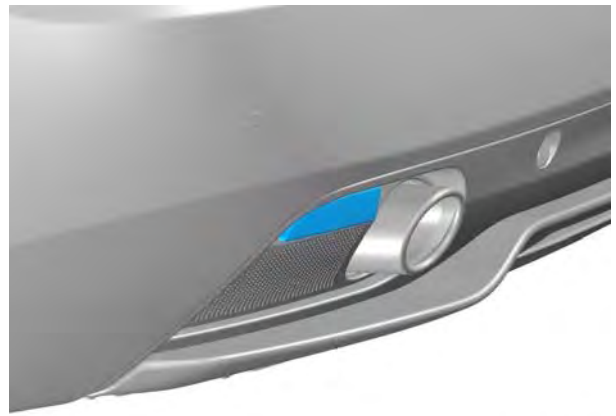


3. Remove the reflector.



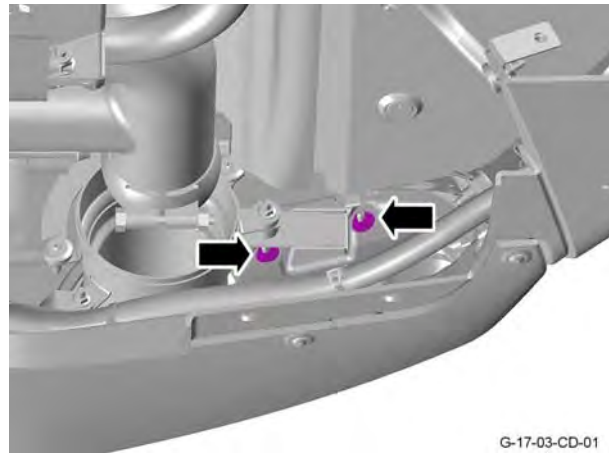
Install

1. Install the reflector.



G-17-03-CD-02

2. Install and tighten the two nuts that attach the reflector to the rear diffuser.






G-17-03-CD-01

3. Install the rear left side wheel-arch liner (01.02.JB - Rear Left Side Wheel-Arch Liner).
[\[Open Workshop Manual Procedure\]](#)

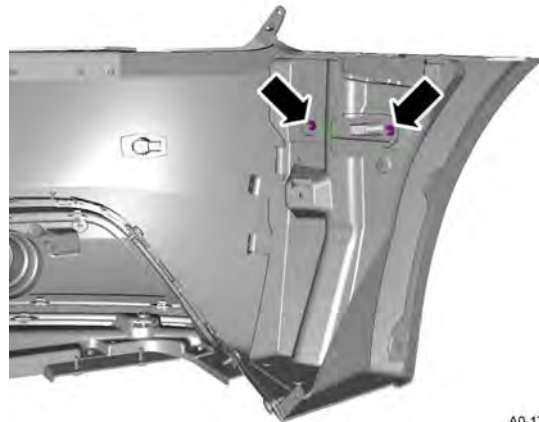
Published date: 2011-04-20 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****17.03.CE Left Side Marker (Remove and Install New Part)**

-  WSM Data
-  Included Procedures
-  Is Used In

Removal

1. Remove the rear bumper cover (01.19.BN - Rear Bumper Cover).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the two nuts that attach the left side marker to the bumper.



A0-17-03-CE-01

3. Remove the left side marker.



A0-17-03-CE-02

Install

1. Put the left side marker into position.



A0-17-03-CE-02

2. Install and tighten the two nuts that attach the left side marker to the bumper.






A0-17-03-CE-01

3. Install the rear bumper cover (01.19.BN - Rear Bumper Cover).

[\[Open Workshop Manual Procedure\]](#)

Published date: 2012-11-19 Procedure last changed: 2015-06-25 16:39:17

Small **Normal** **Large****17.03.CF Right Side Marker (Remove and Install New Part)**

-  WSM Data
-  Included Procedures
-  Is Used In

Removal

1. Remove the rear bumper cover (01.19.BN - Rear Bumper Cover).
[\[Open Workshop Manual Procedure\]](#)
2. Remove the two nuts that attach the right side marker to the bumper.



A0-17-03-CF-01

3. Remove the right side marker.



A0-17-03-CF-02

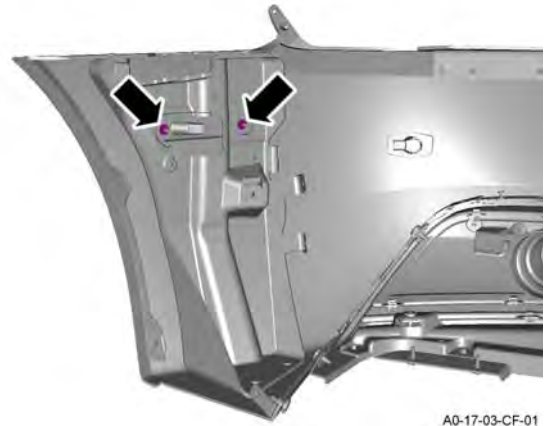
Install

1. Put the right side marker into position.



A0-17-03-CF-02

2. Install and tighten the two nuts that attach the right side marker to the bumper.



A0-17-03-CF-01

3. Install the rear bumper cover (01.19.BN - Rear Bumper Cover).

[\[Open Workshop Manual Procedure\]](#)

Published date: 2012-11-19 Procedure last changed: 2015-06-25 16:39:17