



January 2019

Dealer Service Instructions for:

Safety Recall UB9 / NHTSA 18V-828

Brake Fluid Tube

Remedy Available

2017 - 2018 (GA) Alfa Romeo Giulia

NOTE: This recall applies only to the above vehicles equipped with a 2.0L 280HP engine (sales code EC2) and All Wheel Drive (AWD) built from September 23, 2016 through October 09, 2017 (MDH 092300 through 100900).

NOTE: Some vehicles within the above build period may have been identified as not involved in this recall and therefore have been excluded from this recall.

IMPORTANT: Some of the involved vehicles may be in dealer new vehicle inventory. Federal law requires you to complete this recall service on these vehicles before retail delivery. Dealers should also consider this requirement to apply to used vehicle inventory and should perform this recall on vehicles in for service. Involved vehicles can be determined by using the VIP inquiry process.

Subject

The brake fluid tube on about 6,100 of the above vehicles may experience contact with a coolant hose clamp in the engine compartment. Over time, this contact may lead to a brake fluid leak onto the engine catalyst. If the brake fluid tube is damaged and brake fluid leaks onto the engine catalyst, the customer may smell a burning odor or see smoke, and there is a potential for an engine compartment fire which may result in an increased risk of injury to motor vehicle occupants or persons outside the vehicle.

Repair

Inspect the right front brake fluid tube for damage caused by contact between the brake fluid tube and coolant hose clamp. If the brake fluid tube is not damaged, install a locating bracket on the brake fluid tube to control the clearance of the brake fluid tube to the coolant hose to prevent contact. Or if the brake fluid tube is damaged, a newly designed brake fluid tube must be installed which will not require a locating bracket.

Alternate Transportation

Dealers should attempt to minimize customer inconvenience by placing the owner in a loaner vehicle if inspection determines that repair is required and the vehicle must be held overnight.

Parts Information

Inspect the right front brake fluid tube for damage caused by contact between the brake fluid tube and coolant hose clamp. If no damage, install bracket ONLY.

<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
68456601AA	1	Bracket, Brake Fluid Tube

Brake fluid tube and brake fluid should be ordered only after inspection determines that brake fluid tube is damaged and requires replacement. This redesigned brake fluid tube is routed differently and will not require a locating bracket. *Very few vehicles are expected to require brake fluid tube replacement.*

<u>Part Number</u>	<u>Qty.</u>	<u>Description</u>
68422618AA	1	Tube, Brake Fluid
04549625AE	2	Dot 4 Brake Fluid (12 oz.) MS90039

Parts Return

No parts return required for this campaign.

Special Tools

The following special tools are only required to perform brake fluid tube replacement:

- NPN wiTECH micro pod II
- NPN Laptop Computer
- NPN wiTECH Software
- NPN Master Cylinder Cap for Pressure Bleeder – 45mm Threaded
- NPN Brake System Pressure Bleeder

Service Procedure

A. Inspection

1. Open the hood.
2. Remove the brake fluid reservoir access cover (Figure 1).
3. Inspect the brake fluid tube routing (Figure 1):
 - a. Brake fluid tube is routed in front of the windshield wiper motor bracket. Continue with the **Step 4**.
 - b. Brake fluid tube is routed over the windshield wiper motor bracket. Vehicle has been previously remedied; no further action is required. Install the brake fluid reservoir access cover. Return the vehicle to customer or inventory, and claim the inspection LOP.
 - c. Brake fluid tube is retained by a bracket to the windshield wiper motor bracket. Vehicle has been previously remedied; no further action is required. Install the brake fluid reservoir access cover. Return the vehicle to customer or inventory, and claim the inspection LOP.

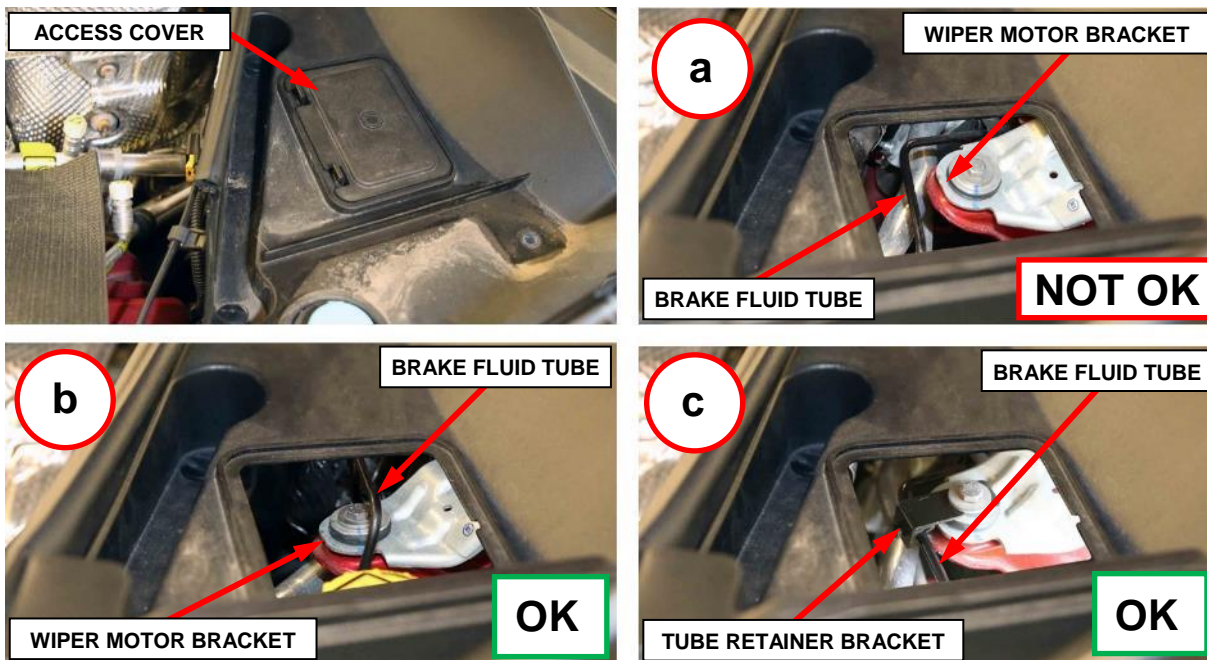


Figure 1 – Brake Fluid Tube Routing Inspection.

Service Procedure

4. Remove the nut cover at the base of the windshield wiper arm, repeat for the opposite side (Figure 2).

5. Remove the wiper arm nut and the washer, repeat for the opposite side (Figure 3).

6. Remove the windshield wiper arm repeat for the opposite side (Figure 3).

NOTE: If necessary, use a suitable extractor to release the wiper arm from the ribbed truncated cone coupling on the wiper arm shaft (Figure 4).

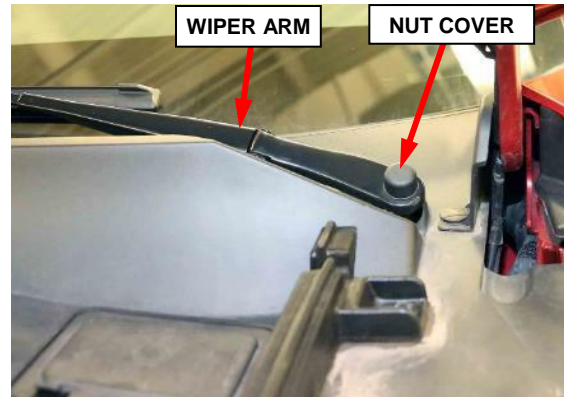


Figure 2 – Wiper Arm Nut Cover

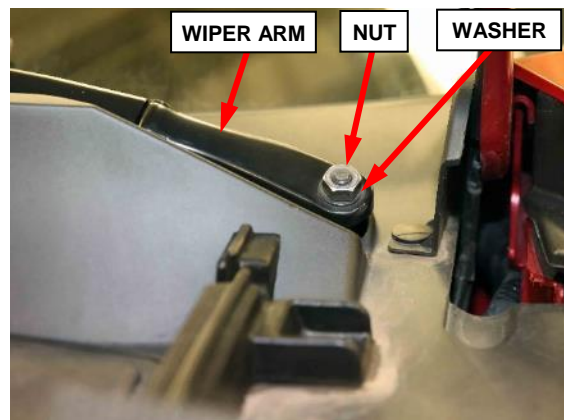


Figure 3 – Wiper Arm and Nut



Figure 4 – Wiper Arm Shaft

Service Procedure [Continued]

7. Release the hood opening cable from the retainers on each side of the cowl trim and from the center retainer (Figure 5).

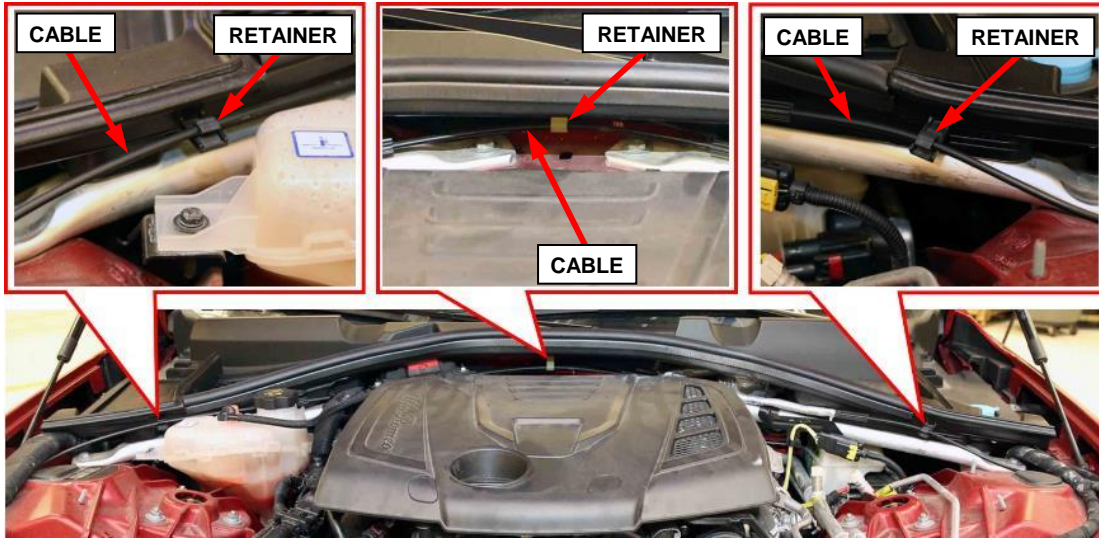


Figure 5 – Hood Opening Cable

8. Remove the push pin rivet fastener from both side moldings (Figure 6).
9. Remove both side moldings by releasing the retainers (Figure 6).

NOTE: Ensure the retainers remain on the side molding (Figure 6).

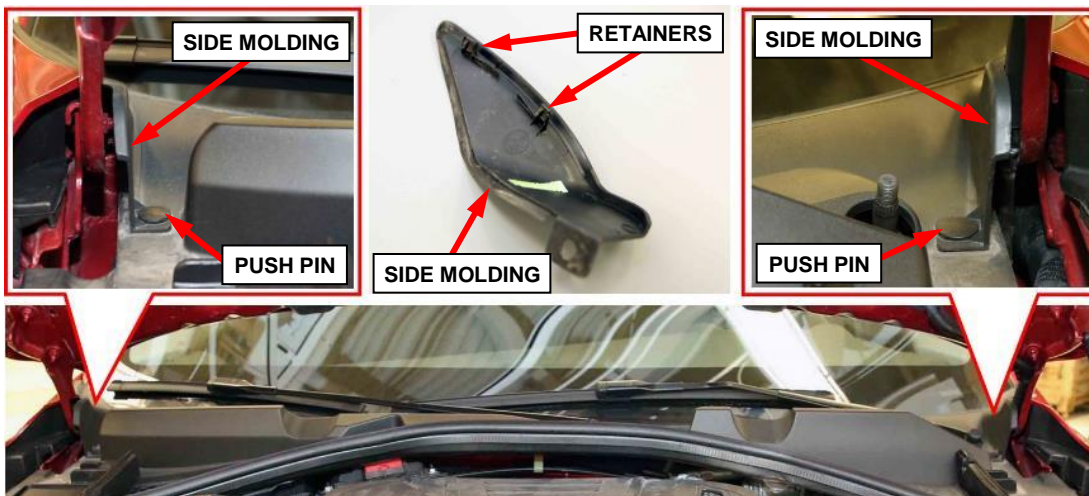


Figure 6 – Cowl Trim Side Moldings

Service Procedure [Continued]

10. Remove the push pin rivet fasteners from both side profile silencers (Figure 7).
11. Remove both side profile silencers from the cowl trim (Figure 7).



Figure 7 – Side Profile Silencers

12. Remove the four push pin rivet fasteners from the cowl trim (Figure 8).

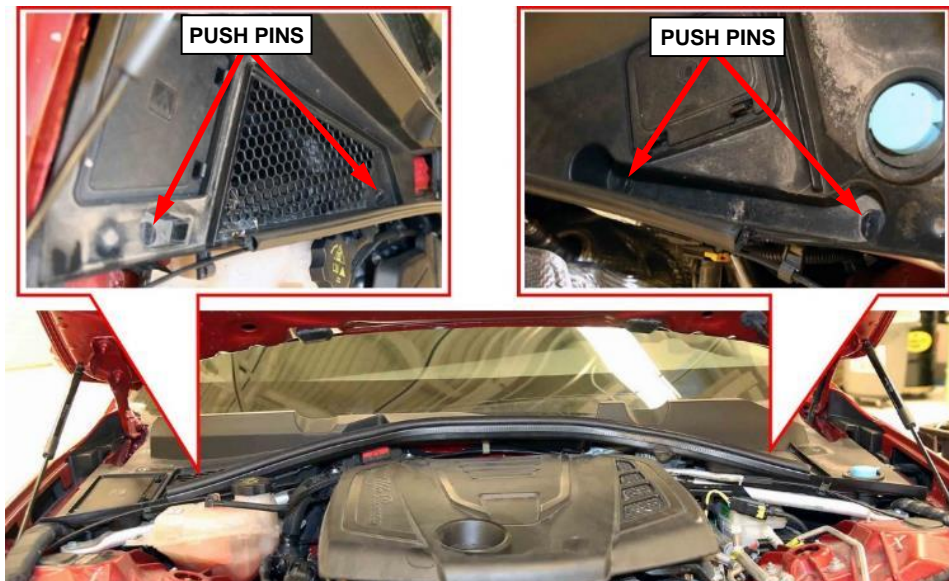


Figure 8 – Cowl Trim Retainers

Service Procedure [Continued]

13. Starting from one end, gradually release the cowl trim from the retainer channel along the windshield base (Figure 9).

NOTE: Work carefully to avoid damaging the windshield and retainer channel.

14. Remove the cowl trim from the vehicle (Figure 9).



Figure 9 – Cowl Trim

15. Release the retainers then remove the oxygen (O2) sensor wiring harness electrical connector from the left side engine box reinforcement brace (Figure 10).

NOTE: Do not disconnect the O2 sensor electrical connector.

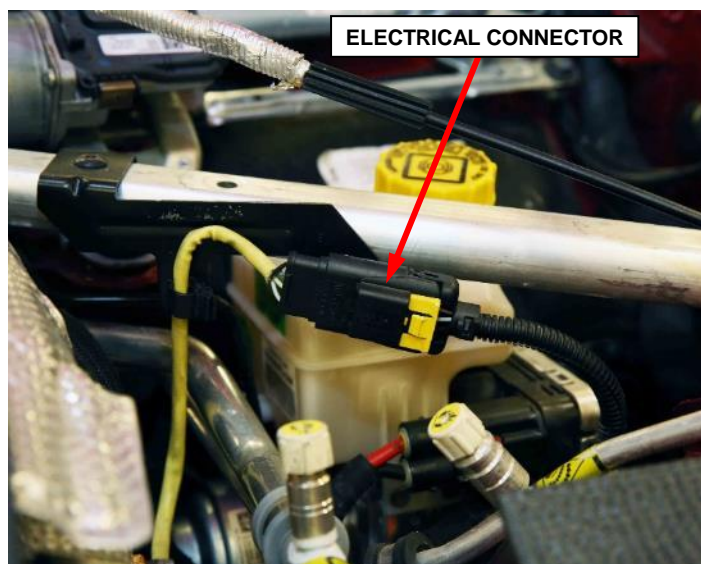


Figure 10 – O2 Sensor Electrical Connector

Service Procedure [Continued]

16. Remove the bolts then remove the left side engine box reinforcement brace (Figure 11).



Figure 11 – Left Reinforcement Brace

17. Locate the area where the brake fluid tube and engine coolant hose clamp could potentially contact each other during engine movement (Figure 12).

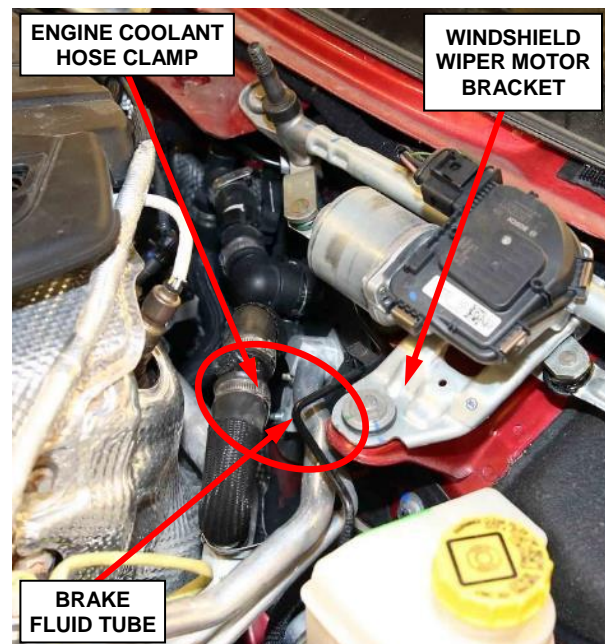
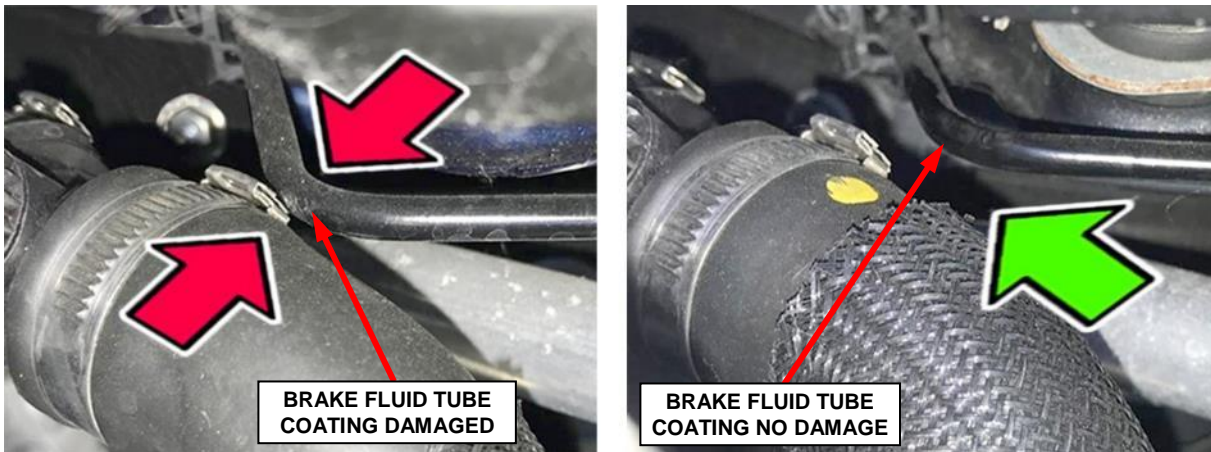


Figure 12 – Potential Contact Area

Service Procedure [Continued]

18. Carefully inspect the right front brake fluid tube in relation to the engine coolant hose clamp (Figure 13).
 - Brake fluid tube surface coating shows **no signs of damage** due to contact with the engine coolant hose clamp. Proceed to **Section B Retaining Bracket Installation**. Brake fluid tube does NOT require replacement.
 - Brake fluid tube surface coating **has been damaged** due to contact with the engine coolant hose clamp. Proceed to **Section C Brake Fluid Tube Replacement**.



Contact Damage

No Contact Damage

Figure 13 – Inspect for Brake Tube Damage

Service Procedure [Continued]**B. Retaining Bracket Installation**

NOTE: If the brake fluid tube is not damaged, install a locating bracket on the brake fluid tube to control the clearance of the brake fluid tube to the coolant hose to prevent contact. Brake fluid tube replacement will not be necessary.

1. Install plastic clip onto the metal bracket (Figure 14).



Figure 14 – Assemble Retaining Bracket

2. Loosen the windshield wiper motor bracket bolt (Figure 15).



Figure 15 – Windshield Wiper Motor

Service Procedure [Continued]

3. Install the brake fluid tube retaining bracket to the brake fluid tube (Figure 16).

4. Slide the retaining bracket under the washer of the bolt until it stops (Figure 17).

5. Tighten the bolt to 8 N·m (71 in. lbs.) (Figure 17).

6. Install the left side engine box reinforcement brace and the bolts. Tighten the bolts to 20 N·m (15 ft. lbs.) (Figure 11).

7. Install the O2 sensor wiring harness electrical connector to the retainers on the left side engine box reinforcement brace and secure the retainers (Figure 10).

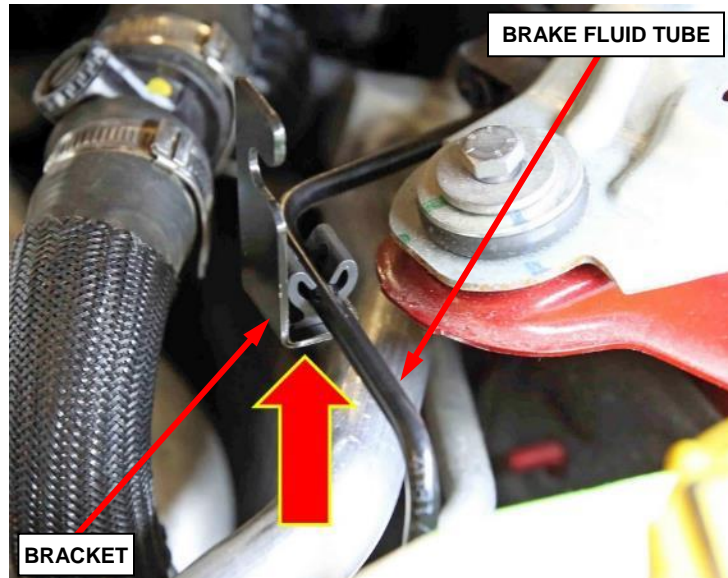


Figure 16 – Install Bracket to Brake Fluid Tube

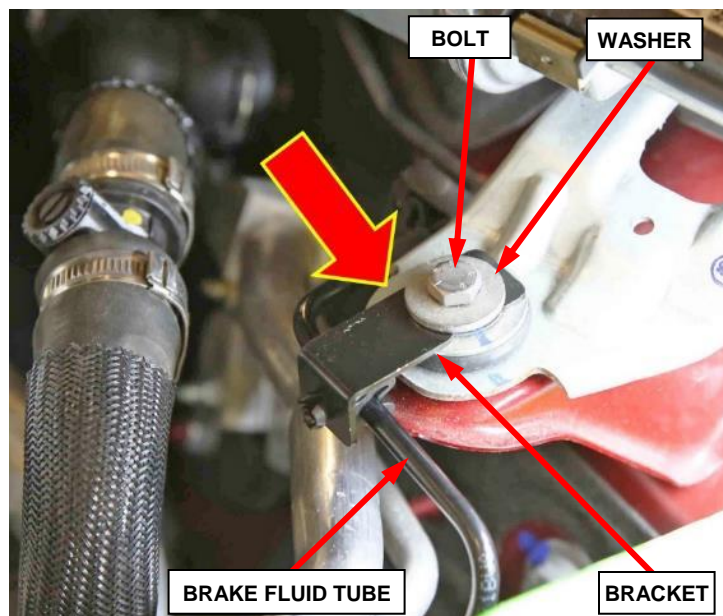


Figure 17 – Slide Bracket Under Washer

Service Procedure [Continued]

8. Position the cowl trim to the vehicle aligning the alignment mark in the middle of the windshield (Figure 18).



Figure 18 – Cowl Trim Alignment Mark in Middle of Windshield

9. Starting from one end gradually engage the cowl trim to the retainer channel along the windshield base (Figure 9).

10. Install the push pin rivet fasteners to the cowl trim (Figure 8).

11. Install the right and left side profile silencers to the cowl trim (Figure 7).

12. Install the push pin rivet fasteners to secure the side profile silencers (Figure 7).

13. Install the right and left cowl trim side moldings by engaging the retainers (Figure 6).

14. Install the push pin rivet fastener to secure the right and left cowl trim side moldings (Figure 6).

15. Install the hood opening cable to the retainers on each side of the cowl trim and to the center retainer (Figure 5).

Service Procedure [Continued]

16. Place the windshield wiper arm in position aligning the wiper blade with the references etched on the windshield (Figure 19).

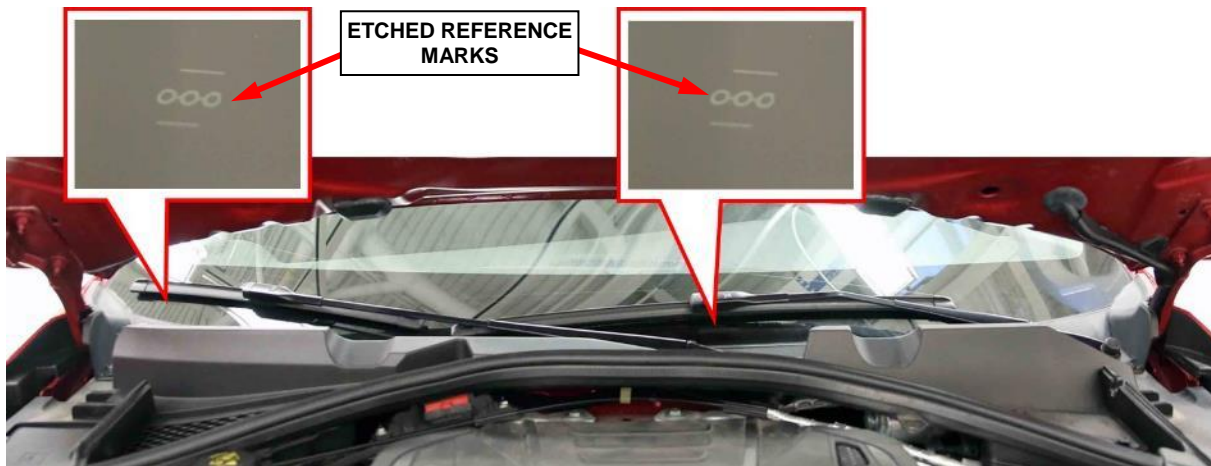


Figure 19 – Windshield Wiper Arm Alignment

17. Install the washer and nut securing the wiper arms. Tighten the nut to 29 N·m (21 ft. lbs.) (Figure 3).
18. Install the nut cover at the base of the windshield wiper arm, repeat for the opposite side (Figure 2).
19. Close the hood.
20. Wet the windshield then cycle the wipers to ensure proper wiper blade alignment.
21. Return the vehicle to inventory or the customer, no further action is required. Claim the LOP for locating bracket installation.

Service Procedure [Continued]

C. Brake Fluid Tube Replacement

NOTE: The electronic parking brake MUST be deactivated. If the electronic parking brake is not deactivated, it will not be possible to properly bleed the brakes following brake tube replacement.

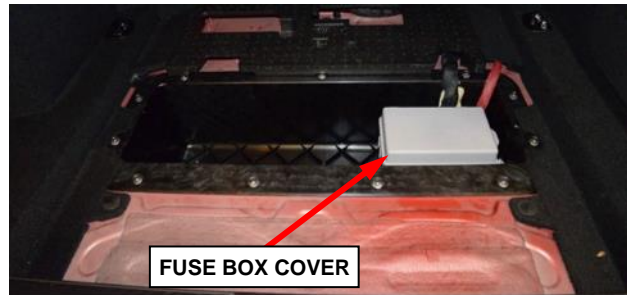
1. Place ignition in “**Run**” position.
2. Press “**Menu**” button in console.
3. Within information center, select “**Settings**”.
4. Select “**Driver Assistance**”.
5. Select “**Auto Park Brake**”.
6. Select auto park brake “**Off**”.
7. Select “**Brake Service**”.
8. System message: “**Would you like to retract park brakes to allow for brake system service?**”.
9. Select “**Yes**”.
10. System message: “**Initializing Brake Service**”.
11. Place ignition in “**Off**” position.
12. Open the decklid and support it so it will not close.

NOTE: Open the decklid and support the decklid in the full open position. While the battery is disconnected, make sure the decklid does not close. If the decklid closes while the battery is disconnected, the rear seat may need to be removed in order to access the decklid release handle.

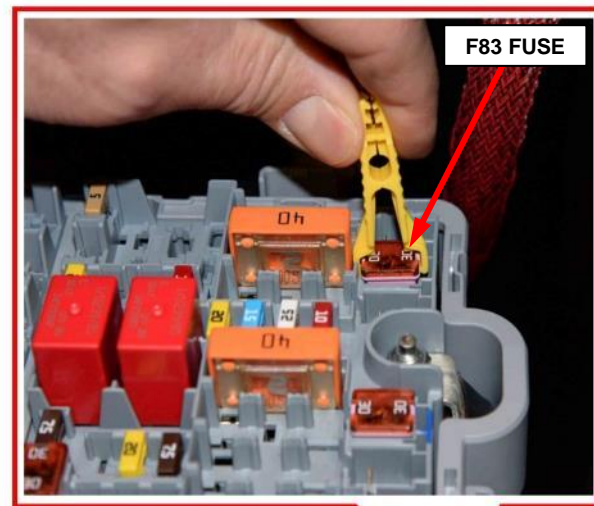
Service Procedure [Continued]

13. Remove the rear compartment load floor cover.

14. Remove the rear compartment load floor storage bin.

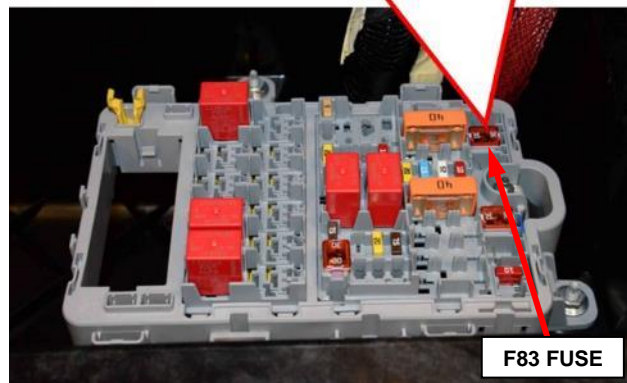


15. Remove the fuse box lid (Figure 20).



16. Locate and remove the fuel pump fuse F83 from the fuse box (Figure 20).

17. Start the engine several times until all the pressure in the fuel distribution manifolds has discharged.



NOTE: Engine may continue to run for 2-3 minutes before fuel system pressure is depleted so use of an exhaust hose may be necessary.

Figure 20 – Fuel Pump Fuse

18. Ensure the ignition is in the “**OFF**” position and the vehicle must remain powered down for at least 1 minute prior to disconnecting the battery.

Service Procedure [Continued]

19. Remove the battery cover by releasing retainers (Figure 21).

NOTE: Intelligent Battery Sensor (IBS) equipped vehicle shown.



Figure 21 – Battery Access Cover

20. Press the release button in order to disconnect the negative battery cable from the post. If equipped with an Intelligent Battery Sensor (IBS), disconnect the IBS connector. (Figure 22).

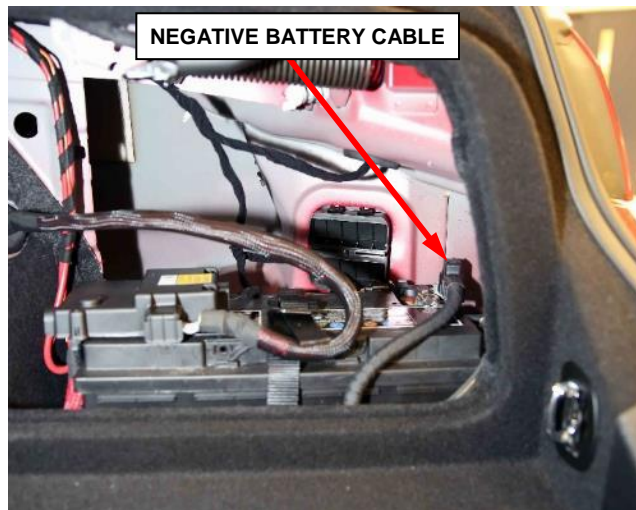


Figure 22 – Negative Battery Cable

21. Install the fuel pump fuse F83 back in the fuse box (Figure 20).
22. Install the fuse box lid (Figure 20).
23. Install the rear compartment load floor storage bin.
24. Install the rear compartment load floor cover.
25. Raise and support the vehicle.
26. Remove all four wheel/tire assemblies.

Service Procedure [Continued]

27. Open the bolt covers on the top engine cover (Figure 23).

28. Remove the bolts then remove the top engine cover complete with engine oil filler seal (Figure 23).



Figure 23 – Top Engine Cover

29. Remove the bolts and disengage the base of the engine coolant reservoir from the rubber retaining mount. Do not disconnect the pipes, position the engine coolant reservoir out of the way (Figure 24).

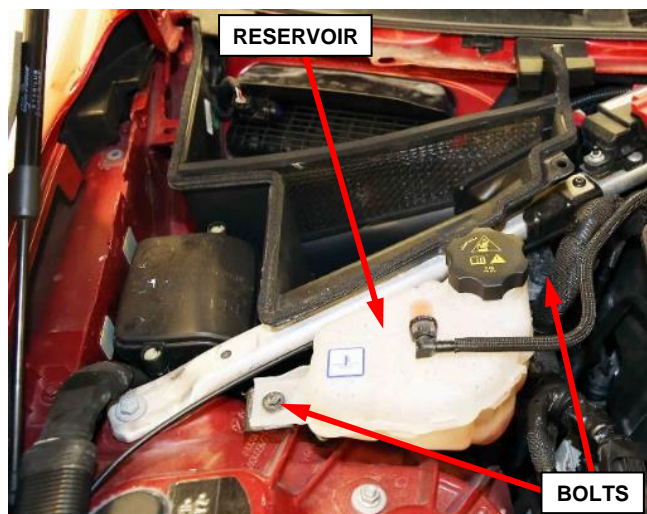


Figure 24 – Engine Coolant Reservoir

Service Procedure [Continued]

30. Remove the nuts securing the under hood junction block to the right engine box reinforcement brace then position the junction block aside (Figure 25).

31. Remove the bolts securing the right side engine box reinforcement brace (Figure 26).

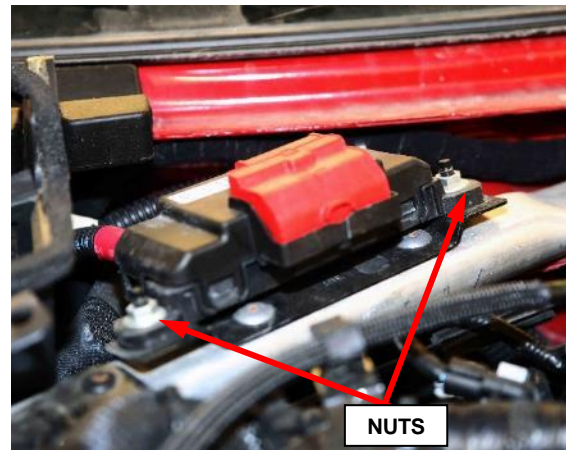


Figure 25 – Under Hood Junction Block

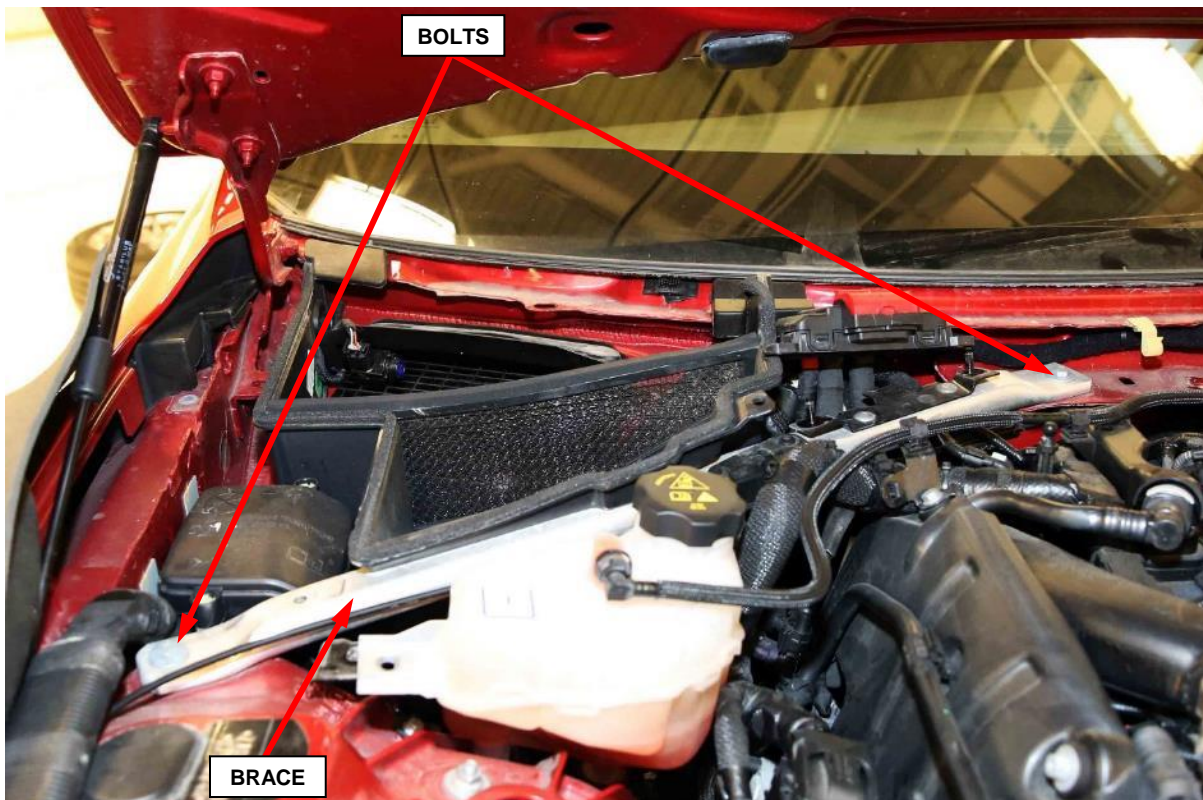


Figure 26 – Right Side Engine Box Reinforcement Brace

Service Procedure [Continued]

32. Remove the cowl net (Figure 27).



Figure 27 – Cowl Net

33. Remove the push pin fastener from the outside air manifold (Figure 28).

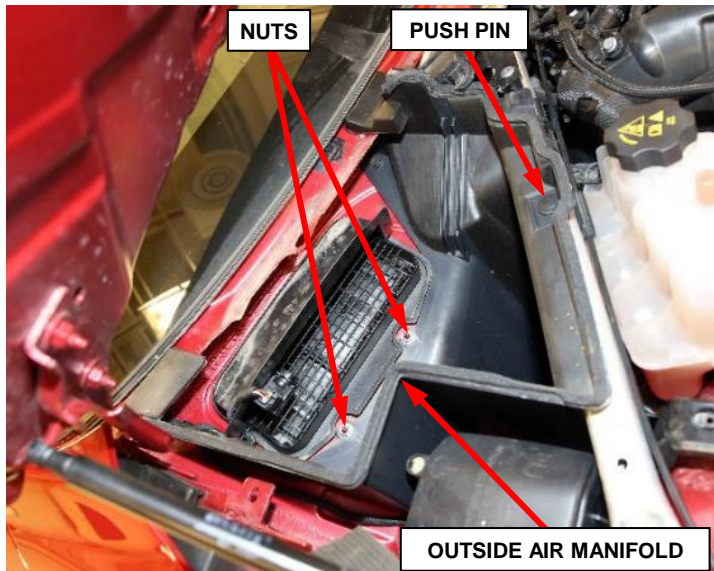


Figure 28 – Outside Air Manifold

Service Procedure [Continued]

34. If equipped, disconnect the exterior air quality sensor electrical connection (Figure 29).

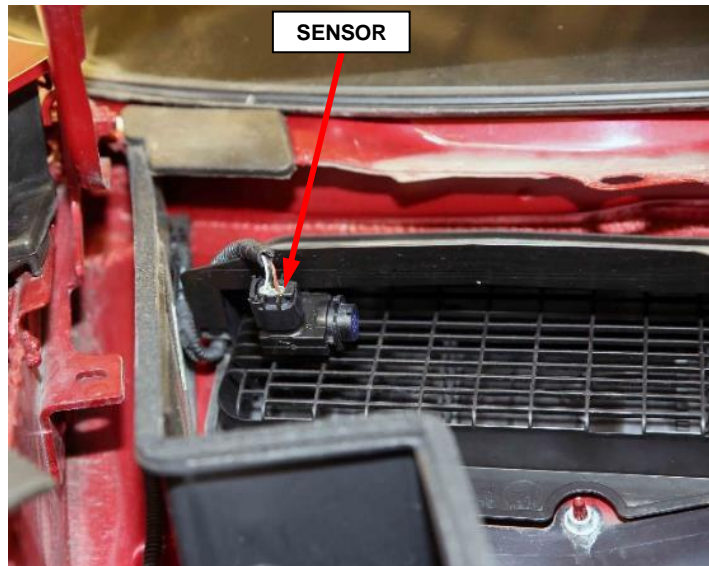


Figure 29 – Air Quality Sensor

35. Remove the outside air inlet screen (Figure 30).



Figure 30 – Air Inlet Screen

Service Procedure [Continued]

36. If equipped, push the air quality sensor electrical connector and grommet through the hole in the outside air manifold (Figure 31).
37. Remove the fasteners securing the outside air manifold (Figure 28).
38. Remove the right side engine box reinforcement brace (Figure 26).
39. Release the wire harness retainers from the outside air manifold (Figure 32).
40. Remove the outside air manifold from the vehicle (Figure 28).

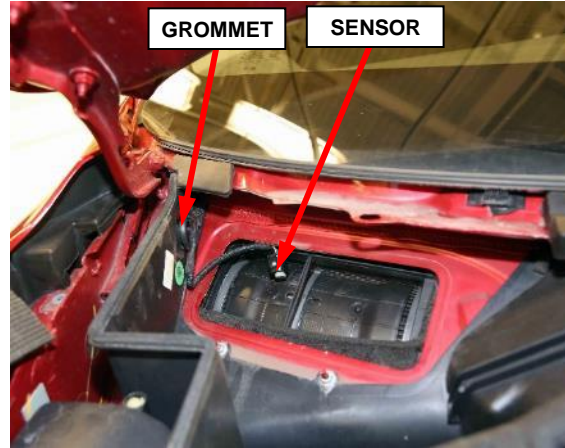


Figure 31 – Outside Air Manifold

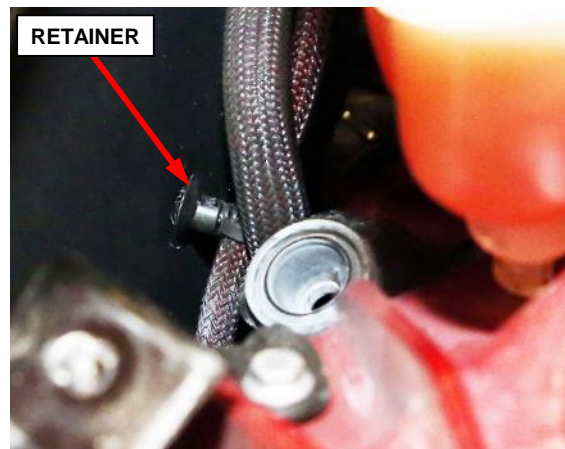


Figure 32 – Wire Harness Retainer

Service Procedure [Continued]

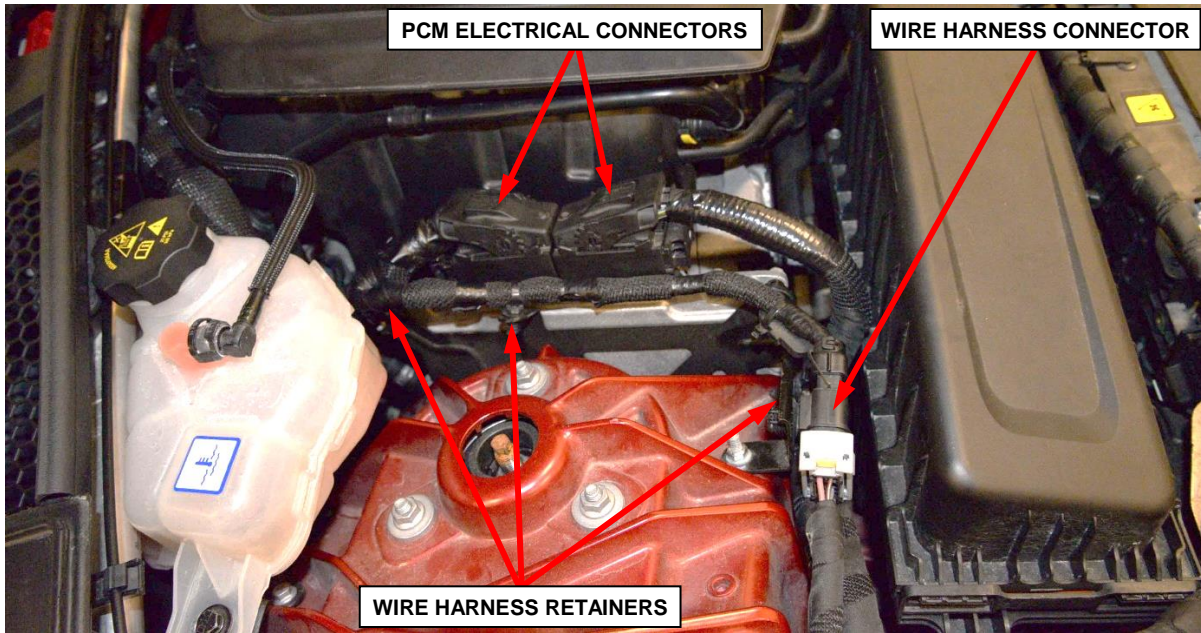


Figure 33 – PCM Control Module Electrical Harness

41. Disconnect the wire harness connector (Figure 33).
42. Disconnect the electrical connectors from the Powertrain Control Module (PCM) (Figure 33).
43. Release the wire harness retainers (Figure 33).
44. Remove the PCM ground strap nut (1) and position the ground strap aside (Figure 34).
45. Remove the screw (2) then remove the PCM control module (3) from the support bracket (4) (Figure 34).

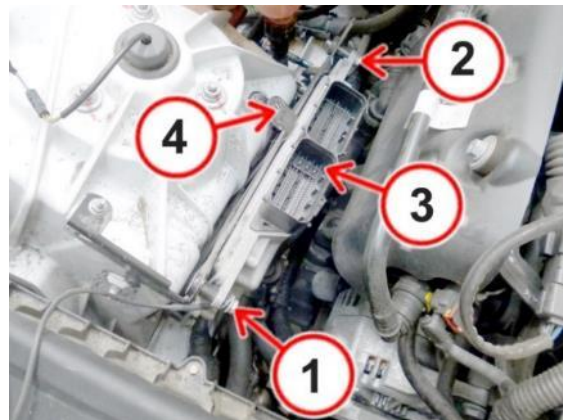


Figure 34 – PCM Control Module

Service Procedure [Continued]

- 46. Remove the four nuts (1) from the PCM support bracket (Figure 35).

- 47. Remove the engine coolant reservoir return pipe retaining clips (2) from the PCM support bracket and set aside (Figure 35).

- 48. Remove the PCM support bracket (3) (Figure 35).

- 49. Disconnect the coolant bypass valve electrical connector (Figure 36).

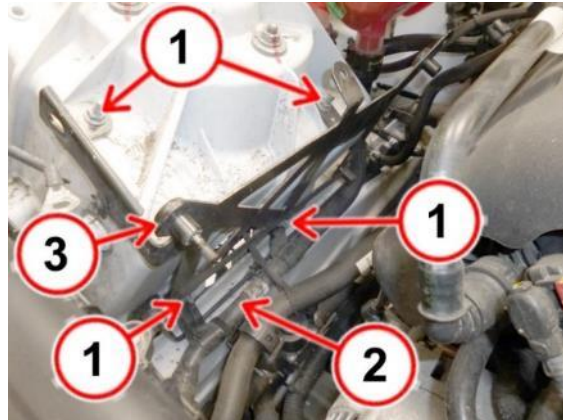


Figure 35 – PCM Control Module Support Bracket

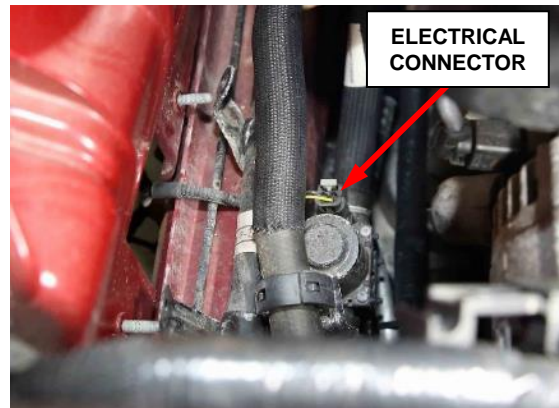


Figure 36 – Coolant Bypass Valve

Service Procedure [Continued]

50. Remove the fuel tube and Evaporative Emission (EVAP) tube from the retainer (Figure 37).

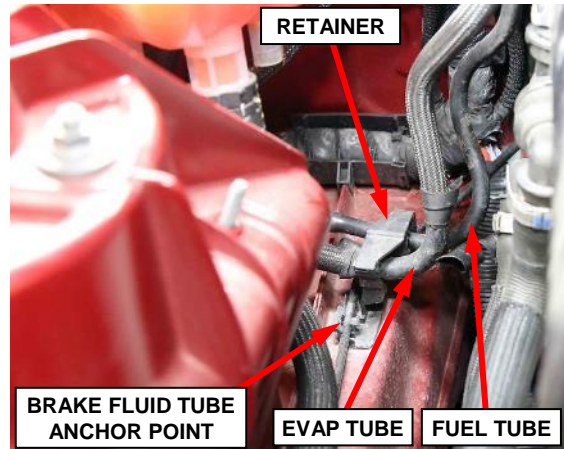


Figure 37 – Tube Retainer

51. Release the brake fluid tube from the anchor point (Figure 37).

52. Release the wiring harness (1) from the anchor points identified with blue arrows (Figure 38).

53. Release the brake fluid tube (3) from the anchor points (2) (Figure 38).

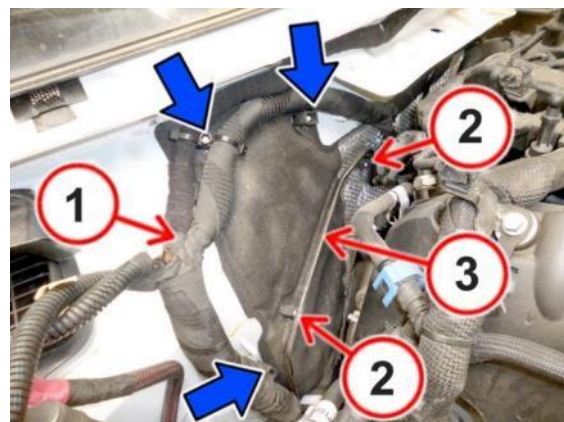


Figure 38 – Brake Fluid Tube

Service Procedure [Continued]

54. Release the brake fluid tube (1) from the anchor points identified with blue arrows (Figure 39).

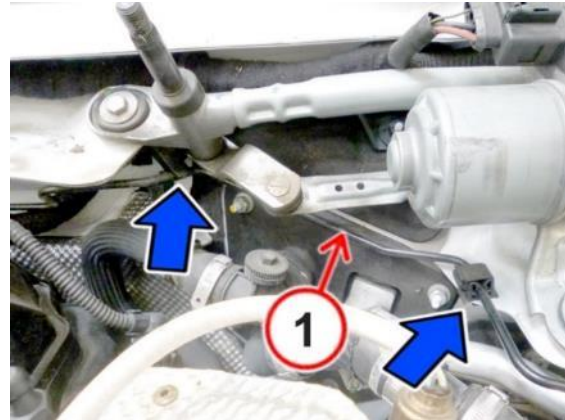


Figure 39 – Brake Fluid Tube

55. Disconnect the electrical connector from the Integrated Brake System (IBS) control module (Figure 40).

56. Ensure that the brake/clutch fluid reservoir tank has an adequate volume of brake fluid to prevent introducing additional air into the system while the brake fluid tube is disconnected.

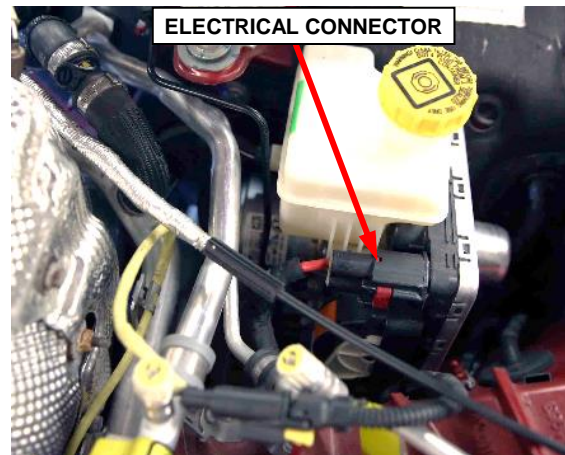


Figure 40 – IBS control module

57. Disconnect the brake fluid tube from the IBS control module (Figure 41).

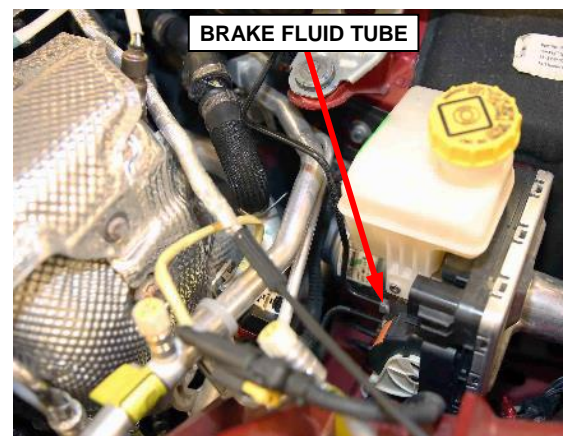


Figure 41 – Brake Fluid Tube

58. Apply a protection cap to the brake fluid tube end and IBS module tube fitting to prevent dripping brake fluid into the engine compartment.

Service Procedure [Continued]

59. Release the rubber grommet from the strut tower (Figure 42).
60. Disconnect the brake fluid tube fitting of the rigid tube from the right front brake flexible hose fitting (Figure 42).
61. Apply a protection to the brake fluid tube end to prevent dripping brake fluid into the engine compartment.

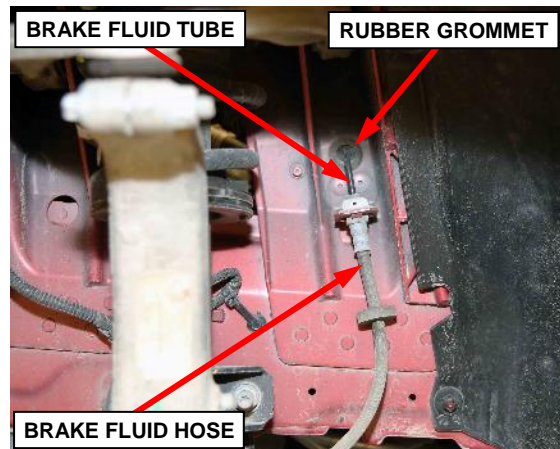


Figure 42 – Brake Fluid Tube

62. Remove the rubber grommet from the brake fluid tube (Figure 43).
63. Remove the brake fluid tube from the engine compartment (Figure 43).
64. Remove the rubber grommet from the brake fluid tube (Figure 43).
65. Scrap the old brake fluid tube (Figure 43).

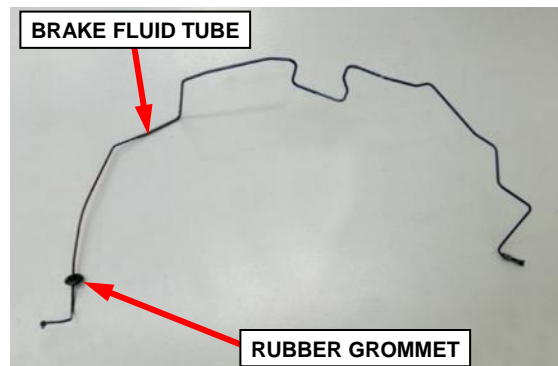


Figure 43 – Brake Fluid Tube

66. Install the rubber grommet to the new brake fluid tube (Figure 43).
67. Operating with great care, install the new brake fluid tube into position within the engine compartment.
68. Fasten the brake fluid tube to the IBS control module connector and tighten to 16 N·m (12 ft. lbs.) (Figure 41).
69. Fasten the rigid brake fluid tube to the flexible right front brake fluid hose and tighten to 16 N·m (12 ft. lbs.) (Figure 42).
70. Install the brake fluid tube rubber grommet to the strut tower (Figure 43).

Service Procedure [Continued]

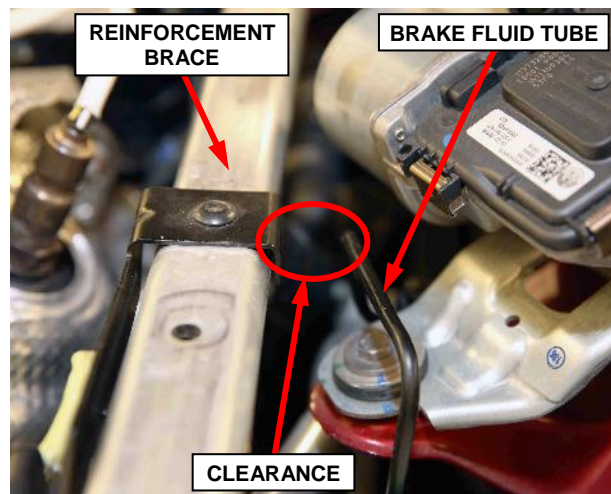
71. Connect the electrical connector to the Integrated Brake System (IBS) control module (Figure 40).
72. Install the brake fluid tube (1) to the anchor points identified with blue arrows (Figure 39).
73. Attach the brake fluid tube (3) to the anchor points (2) (Figure 38).
74. Attach the wiring (1) to the anchor points identified with blue arrows (Figure 38).
75. Attach the brake fluid tube to the anchor point (Figure 37).
76. Install the fuel tube and Evaporative Emission (EVAP) tube to the retainer (Figure 37).
77. Connect the coolant bypass valve electrical connector (Figure 36).
78. Position the PCM support bracket (3) to the strut tower (Figure 35).
79. Install the engine coolant reservoir return pipe retaining clips (2) to the PCM support bracket (Figure 35).
80. Install the four nuts (1) to the PCM support bracket. Tighten the nuts to 9 N·m (80 in. lbs.) (Figure 35).
81. Install the PCM control module (3) to the support bracket (4) and install the screw (2). Tighten the screw to 9 N·m (80 in. lbs.) (Figure 34).
82. Connect the ground strap to the PCM and secure using the ground strap nut (1). Tighten the nut to 9 N·m (80 in. lbs.) (Figure 34).

Service Procedure [Continued]

83. Secure the wire harness retainers. (Figure 33).
84. For vehicles with automatic transmission, do not connect the PCM wire harness connectors to the PCM at this time to prevent the engine from starting.
85. Connect the wire harness connector (Figure 33).
86. Install the outside air manifold to the vehicle (Figure 28).
87. Install the wire harness retainers to the outside air manifold (Figure 32).
88. Install the right side engine box reinforcement brace (Figure 26).
89. Install the fasteners securing the outside air manifold (Figure 28).
90. If equipped, install the air quality sensor electrical connector and grommet into the hole in the outside air manifold (Figure 31).
91. Install the air inlet screen (Figure 30).
92. If equipped, connect the outside air quality sensor electrical connection (Figure 29).
93. Install the push pin fastener to the outside air manifold (Figure 28).
94. Install the cowl net (Figure 27).

Service Procedure [Continued]

95. Install the bolts securing the right side engine box reinforcement brace. Tighten the bolts to 20 N·m (15 ft. lbs.) (Figure 26).
96. Install the under hood junction block to the right engine box reinforcement brace (Figure 25).
97. Install the nuts securing the under hood junction block to the right engine box reinforcement brace. Tighten the nuts to 11 N·m (97 in. lbs.) (Figure 25).
98. Install the engine coolant reservoir to the rubber retaining mount then install the bolts. Tighten the bolts to 7 N·m (62 in. lbs.) (Figure 24).
99. Install the left side engine box reinforcement brace and the bolts. Tighten the bolts to 20 N·m (15 ft. lbs.) (Figure 11).
100. Inspect for clearance between the brake fluid tube and the left side engine box reinforcement brace. If the tube is contacting the brace, reposition the tube as necessary to ensure no contact (Figure 44).

**Figure 44 – Brake Fluid Tube Clearance**

101. Install the O2 sensor wiring harness electrical connector to the retainers on the left side engine box reinforcement brace and secure the retainers (Figure 10).
102. Install the top engine cover and install the bolts (Figure 23).
103. Close the bolt covers on the top engine cover (Figure 23).

Service Procedure [Continued]

104. Position the cowl trim to the vehicle aligning the alignment mark in the middle of the windshield (Figure 18).
105. Starting from one end gradually engage the cowl trim to the retainer channel along the windshield base (Figure 9).
106. Install the push pin rivet fasteners to the cowl trim (Figure 8).
107. Install the right and left side profile silencers to the cowl trim (Figure 7).
108. Install the push pin rivet fasteners to secure the side profile silencers (Figure 7).
109. Install the right and left cowl trim side moldings by engaging the retainers (Figure 6).
110. Install the push pin rivet fastener to secure the right and left cowl trim side moldings (Figure 6).
111. Install the hood opening cable to the retainers on each side of the cowl trim and to the center retainer (Figure 5).
112. Place the windshield wiper arm in position aligning the wiper blade with the references etched on the windshield (Figure 19).
113. Install the washer and nut securing the wiper arms. Tighten the nut to 29 N·m (21 ft. lbs.) (Figure 3).
114. Install the nut cover at the base of the windshield wiper arm, repeat for the opposite side (Figure 2).
115. Continue to **Section D. Brake Bleeding Procedure.**

Service Procedure [Continued]

D. Brake Bleeding Procedure

NOTE: The following steps for bleeding the brakes is only applicable to those vehicles that required brake tube replacement.

NOTE: Ensure that the vehicle is supported, the wheels are removed, the battery negative cable is disconnected and the PCM connectors are disconnected as directed in Section C. Brake Fluid Tube Replacement.

NOTE: For vehicles with automatic transmission, to prevent the engine from being accidentally started only reconnect the battery after disconnecting the ECM wire harness connector.

1. Clean the master cylinder reservoir and cap before remove the reservoir cap.
2. Ensure the brake fluid reservoir is filled to the MAX indicator on the side of the reservoir. If necessary, add fluid to the proper level.

NOTE: Ensure the fluid in the pressure bleeder meeting the DOT 4 specifications.

3. Connect the pressure bleeder to the brake fluid reservoir and pressurize the system.

NOTE: The pressure must be kept at 2 bar (29 - 43 psi) during the “FIRST STAGE” and “SECOND STAGE” of the brake bleeding procedure described below.

Service Procedure [Continued]**FIRST STAGE:**Right Front Brake Caliper:

4. Connect the brake fluid recovery hose to the INNER bleeder screw of the right front brake caliper and to the recovery container (Figure 45).
5. Open the INNER bleeder screw and without pressing the brake pedal, allow a small amount of brake fluid to drain into the recovery container until there are no more air bubbles. Then tighten the bleeder screw and remove the recovery hose.
6. Repeat the procedure for the right front brake caliper OUTER bleeder screw (Figure 45).

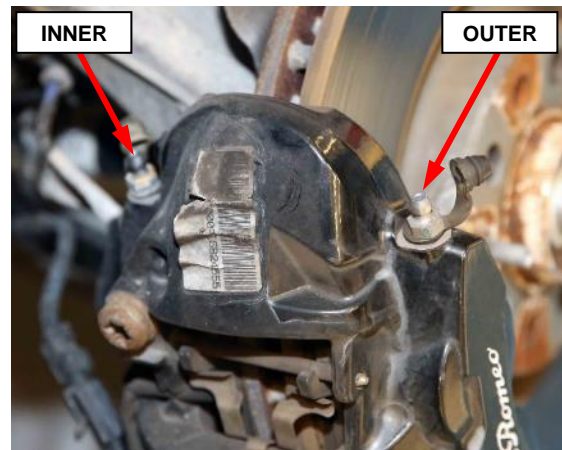


Figure 45 – Front Brake Caliper Bleeder Screws

Left Front Brake Caliper:

7. Repeat the same procedure for the left front brake caliper as was performed on the right front brake caliper **Steps 4-6**. (Figure 45).

Right Rear Brake Caliper:

8. Connect the brake fluid recovery hose to the bleeder screw and to the recovery container (Figure 46).
9. Open the INNER bleeder screw and without pressing the brake pedal, allow a small amount of brake fluid to drain into the recovery container until there are no more air bubbles. Then tighten the bleeder screw and remove the recovery hose.

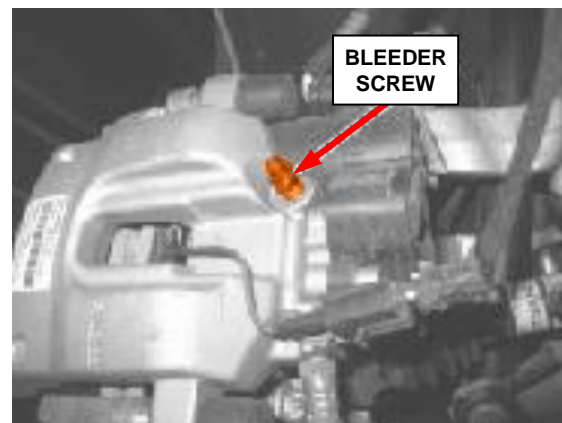


Figure 46 – Rear Brake Caliper

Service Procedure [Continued]Left Rear Brake Caliper:

10. Repeat the same procedure for the left rear brake caliper as was performed on the right rear brake caliper **Steps 8-9**. (Figure 46).

SECOND STAGE:

11. Connect the negative battery cable. If equipped with an Intelligent Battery Sensor (IBS), connect the IBS connector after connecting the negative battery cable.

NOTE: In the event that the liftgate is closed while the battery is disconnected, fold the rear seat back down or remove the fixed seat back. Pull the cable to release the decklid latch.

12. Install a battery charger and verify that the charging rate provides 13.0 to 13.5 volts. Set the battery charger timer (if so equipped) to continuous charge.
13. Ensure the wiTECH micro pod II is connected to the vehicle data link connector.
14. Place the ignition in the “**RUN**” position.
15. Open the wiTECH 2.0 website.
16. Enter your “**User id**” and “**Password**” and your “**Dealer Code**”, then select “**Sign In**” at the bottom of the screen. Click “**Accept**”.
17. From the “**Vehicle Selection**” screen, select the appropriate vehicle.
18. From the “**Action Items**” screen, select the “**Topology**” tab.
19. From the “**Topology**” tab, select the “**ABS**” module icon.
20. Select the “**Misc Functions**” tab then select the “**ECU Replacement**”.

Service Procedure [Continued]

21. Select the “**Restore Vehicle**” to begin the second stage of the brake bleed procedure.

IMPORTANT: Carefully follow all wiTECH instructions and in particular the brake bleed operation sequence. The brake bleed sequence must be repeated until no air bubbles can be seen released from the valves.

- 22. Ensure all bleeder screws are tightened to 1 N·m (9 in. lbs.).
- 23. Check that the circuit connections are correct to make sure that there are no leakages if "NOK" result appears at the end of the routine, even for a single value for the “Bleeding and Leakage” test repeat the ABS system “ECU Replacement” procedure again (Figure 47).

The screenshot shows a diagnostic tool interface with a blue header bar containing a wrench icon and the text "Check air presence in ABS unit". Below the header is a section titled "Bleed Check" containing a table with two columns: "Name" and "Value".

Name	Value
Chamber1 Bleeding Test	OK
Chamber1 Leakage Test	OK
Chamber1 Pressure Reserve to Threshold	0.000
Chamber1 Volume Reserve to Threshold	966
Chamber2 Bleeding Test	OK
Chamber2 Leakage Test	OK
Chamber2 Pressure Reserve to Threshold	0.000
Chamber2 Volume Reserve to Threshold	966

Figure 47 – Check Air Presence in ABS Unit

Service Procedure [Continued]

Checking air in the hydraulic circuit between the control unit and brake calipers

For the comparison of values read, watch 0010T6S procedure "hydraulic brake system - Bleed air" of the repair manual.

Name	Value
Front Left - MOPS-calculated shifted LAC volume in window 1	1876
Front Right - MOPS-calculated shifted LAC volume in window 1	1950
Rear Right - MOPS-calculated shifted LAC volume in window 1	922
Rear Left - MOPS-calculated shifted LAC volume in window 1	913

Figure 48 – Pressure Bleeder

Version	200 HP	280 HP
Left front volume (mm3)	1440 – 2550	1495 – 2755
Right front volume (mm3)	1625 – 2735	1790 – 3050
Right rear volume (mm3)	870 – 1990	870 – 1990
Left rear volume (mm3)	855 – 1975	855 – 1975

Figure 49 – Pressure Bleeder

24. Check that the volumes of the Left Front, Right Front, Rear Right, and Left Rear shown on the scan tool (Figure 48) are within the range shown on the chart (Figure 49). Even if a single value is out of range, the ABS system “ECU Replacement” procedure must be repeated until no air bubbles are released from the ABS unit valves.
25. For vehicles with automatic transmission, connect the wire harness connectors and to the PCM (Figure 33).
26. Initializing the steering is required. This will be indicated by a warning light on the IPC illuminating. Start the engine, turn the steering wheel from one lock to the other and turn it back into the center position.

Service Procedure [Continued]

27. Place ignition in “**Run**” position.
28. Press “**Menu**” button in console.
29. Within information center, select “**Settings**”.
30. Select “**Driver Assistance**”.
31. Select auto park brake “**On**”.
32. Deactivate “**Brake Service**” mode.
33. Place ignition in “**Off**” position.
34. Install all four wheel/tire assemblies. Tighten the wheel mounting bolts to 120 N·m (89 ft. lbs.).
35. Lower the vehicle.
36. Close the hood.
37. Wet the windshield then cycle the wipers to ensure proper wiper blade alignment.
38. Return the vehicle to inventory or the customer, no further action is required.

Completion Reporting and Reimbursement

Claims for vehicles that have been serviced must be submitted on the DealerCONNECT Claim Entry Screen located on the Service tab. Claims paid will be used by FCA to record recall service completions and provide dealer payments.

Use one of the following labor operation numbers and time allowances:

	Labor Operation Number	Time Allowance
Inspect Brake Fluid Tube for Previous Repair, Support Bracket or Redesigned Brake Fluid Tube	05-UB-91-81	0.2 hours
Inspect Brake Fluid Tube for Previous Repair, and Install Support Bracket	05-UB-91-82	0.5 hours
Inspect Brake Fluid Tube for Previous Repair, and Replace Brake Fluid Tube, HCU to Right Front Brake Hose	05-UB-91-83	2.8 hours
Floor Plan Reimbursement	95-95-95-97	Calculate See Below

Floor Plan Reimbursement represents the vehicle’s average daily allowance (see table below) multiplied by the number of days the vehicle was in dealer inventory and not available for sale. This reimbursement is limited to the number of days from the date of the stop sale to the date that the remedy was made available. Note: If the vehicle was received by your dealership (KZX date) AFTER the stop sale date, you will use the KZX date instead of the stop sale date. For this Recall, the stop sale was initiated on 12/04/2018 and the remedy was made available on 01/08/2019, therefore, the number of days cannot exceed 35 days.

Vehicle	Average Daily Allowance
2017-2018 (GA) Alfa Romeo Giulia	[REDACTED]

NOTE: See the Warranty Administration Manual, Recall Claim Processing Section, for complete recall claim processing instructions.

Dealer Notification

To view this notification on DealerCONNECT, select “Global Recall System” on the Service tab, then click on the description of this notification.

Owner Notification and Service Scheduling

All involved vehicle owners known to FCA are being notified of the service requirement by first class mail. They are requested to schedule appointments for this service with their dealers. A generic copy of the owner letter is attached.

Vehicle Lists, Global Recall System, VIP and Dealer Follow Up

All involved vehicles have been entered into the DealerCONNECT Global Recall System (GRS) and Vehicle Information Plus (VIP) for dealer inquiry as needed.

GRS provides involved dealers with an updated VIN list of their incomplete vehicles. The owner's name, address and phone number are listed if known. Completed vehicles are removed from GRS within several days of repair claim submission.

To use this system, click on the “**Service**” tab and then click on “**Global Recall System.**” Your dealer's VIN list for each recall displayed can be sorted by: those vehicles that were unsold at recall launch, those with a phone number, city, zip code, or VIN sequence.

Dealers must perform this repair on all unsold vehicles before retail delivery. Dealers should also use the VIN list to follow up with all owners to schedule appointments for this repair.

Recall VIN lists may contain confidential, restricted owner name and address information that was obtained from the Department of Motor Vehicles of various states. Use of this information is permitted for this recall only and is strictly prohibited from all other use.

Additional Information

If you have any questions or need assistance in completing this action, please contact your Service and Parts District Manager.

Customer Services / Field Operations
FCA US LLC

This notice applies to your vehicle,

[Model Year and Model]

VIN XXXXXXXXXXXXXXXXXXXX

UB9/NHTSA 18V-828

LOGO

VEHICLE PICTURE

YOUR SCHEDULING OPTIONS

1. RECOMMENDED OPTION

Call your authorized Chrysler / Dodge / Jeep® / RAM / Alfa Romeo Dealership.

2. Call Alfa Romeo Premium Care at 1-866-932-3881. An agent can help schedule an appointment.

3. Visit recalls.mopar.com, scan the QR code below, or download the Mopar Owner's Companion App.

QR Code

Get access to recall notifications, locate your nearest dealer, and more through this website or Mopar Owner's Companion App. You will be asked to provide your Vehicle Identification Number (VIN) to protect and verify your identity. The last eight characters of your VIN are provided above.

DEALERSHIP INSTRUCTIONS

Please reference Safety Recall UB9.

IMPORTANT SAFETY RECALL

Brake Fluid Tube

Dear [Name],

This notice is sent to you in accordance with the National Traffic and Motor Vehicle Safety Act.

FCA has decided that a defect, which relates to motor vehicle safety, exists in certain [2017 and 2018 model year Alfa Romeo Giulia] vehicles equipped with a 2.0L 280HP engine and All Wheel Drive (AWD).

It is extremely important to take steps now to repair your vehicle to ensure the safety of you and your passengers.

WHY DOES MY VEHICLE NEED REPAIRS?

The brake fluid tube on your vehicle ^[1] may experience contact with a coolant hose clamp in the engine compartment. Over time, this contact may lead to a brake fluid leak onto the engine catalyst. **If the brake fluid tube is damaged and brake fluid leaks onto the engine catalyst, the customer may smell a burning odor or see smoke, and there is a potential for an engine compartment fire which may result in an increased risk of injury to motor vehicle occupants or persons outside the vehicle.**

HOW DO I RESOLVE THIS IMPORTANT SAFETY ISSUE?

FCA will repair your vehicle ^[2] free of charge (parts and labor). To do this, your dealer will install a locating bracket on the brake fluid tube to control the clearance of the brake fluid tube to the coolant hose to prevent contact. If the brake fluid tube is damaged, a new brake fluid tube will be installed. In addition, your dealer will require your vehicle for proper check-in, preparation, and check-out during your visit. Your time is important to us; please be aware that these steps may require more time. The estimated repair time is between one to three hours. We recommend that you schedule a service appointment to minimize your inconvenience. Please bring this letter with you to your dealership.

**TO SCHEDULE YOUR FREE REPAIR,
CALL YOUR ALFA ROMEO DEALER TODAY**

WHAT IF I ALREADY PAID TO HAVE THIS REPAIR COMPLETED?

If you have already experienced this specific condition and have paid to have it repaired, you may visit www.fcarecallreimbursement.com to submit your reimbursement request online. ^[3] Once we receive and verify the required documents, reimbursement will be sent to you within 60 days. If you have had previous repairs performed and/or already received reimbursement, you may still need to have the recall repair performed.

We apologize for any inconvenience, but are sincerely concerned about your safety. Thank you for your attention to this important matter.

Customer Assistance/Field Operations
FCA US LLC



Mr. Mrs. Customer
1234 Main Street
Hometown, MI 48371

[1] If you no longer own this vehicle, please help us update our records. Call Alfa Romeo Premium Care at 1-866-932-3881 to update your information.

[2] If your dealer fails or is unable to remedy this defect without charge and within a reasonable time, you may submit a written complaint to the Administrator, National Highway Traffic Safety Administration, 1200 New Jersey Ave., S.E., Washington, DC 20590, or you can call the toll-free Vehicle Safety Hotline at 1-888-327-4236 (TTY 1-800-424-9153), or go to safercar.gov.

[3] You can also mail in your original receipts and proof of payment to the following address for reimbursement consideration: FCA Customer Assistance, P.O. Box 21-8004, Auburn Hills, MI 48321-8007, Attention: Recall Reimbursement.

Note to lessors receiving this recall notice: Federal regulation requires that you forward this recall notice to the lessee within 10 days.