

Classification:

EM17-008

Reference:

ITB17-054

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Date:

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2016-2018 Q50 AND 2017-2018 Q60; CHARGE AIR COOLER COOLING SYSTEM SERVICE INFORMATION

APPLIED VEHICLES: 2016-2018 Q50 (V37)

2017-2018 Q60 (V37)

APPLIED ENGINE: All versions of VR30DDTT V6 engine

SERVICE INFORMATION

Whenever either or both charge air coolers (intercooler) on an applied vehicle's VR30DDTT V6 engine is removed and reinstalled/replaced for any reason, make sure to properly bleed the charge air cooler (intercooler) cooling system.

Use the SERVICE PROCEDURE in this bulletin for the proper intercooler cooling system bleeding.

- The procedure in this bulletin is different than what is currently in the Electronic Service Manuals (ESMs).
- The ESMs will be updated at a later date.

CAUTION: If the intercooler cooling system bleeding procedure in this bulletin is not used:

- Damage may occur to the intercooler electric water pump(s),

AND/OR

- One or more of the following DTCs may set:
 - P14A2, P14A3, P14A4, P14A5, P14A6, P14A7, P14A8, P14A9
 - P14AA, P14AC, P14AD, P14AE, P14AF
 - P14B0, P14B1, P14B2, P14B3, P14B5

IMPORTANT: The purpose of ACTION (above) is to give you a quick idea of the work you will be performing. You MUST closely follow the entire SERVICE PROCEDURE as it contains information that is essential to successfully completing this repair.

Infiniti Bulletins are intended for use by qualified technicians, not 'do-it-yourselfers'. Qualified technicians are properly trained individuals who have the equipment, tools, safety instruction, and know-how to do a job properly and safely. NOTE: If you believe that a described condition may apply to a particular vehicle, DO NOT assume that it does. See your Infiniti retailer to determine if this applies to your vehicle.

SERVICE PROCEDURE

Fill and Bleed Intercooler Cooling System

1. Install the intercooler cooling system's drain plug.
2. Remove the intercooler cooling system reservoir tank cap.
3. Set the Coolant Refill Tool (J-45695-A) to the intercooler cooling system reservoir tank.

- Use Coolant Refill Tool J-45695-A (Figure 1), follow the tool's instructions.

NOTE: This is an essential tool.

4. Perform vacuuming and refilling the intercooler cooling system using the coolant refill tool.
 - Confirm the vacuum/pressure gauge goes down to 25 inHG (with the intercooler cooling system being empty).
 - Refer to the Electronic Service Manual, section MA-Maintenance, for correct type of long life coolant.
5. Stop the refill procedure when the vacuum gauge indicates "0".

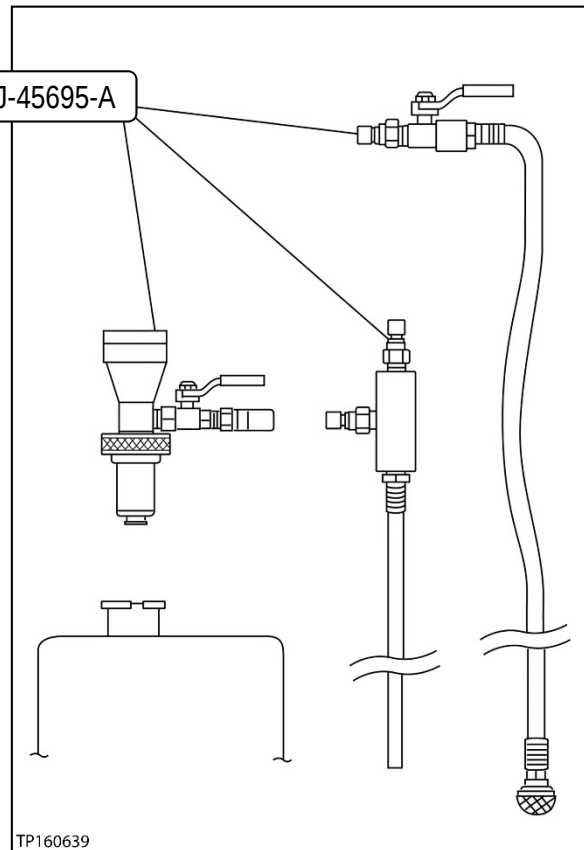


Figure 1

6. Remove the coolant refill tool from the reservoir tank.
7. Connect the CONSULT PC to the vehicle, and then turn ignition switch ON.
8. Start up CONSULT-III plus (C-III plus), and then access ENGINE, ACTIVE TEST, and then "Full Drive".
9. Select "Electric water pump 1 duty" and if it applies, "Electric water pump 2 duty" (for TURBO HIGH PRESSURE MODEL only).
10. Start the engine, and then let it idle for three (3) minutes.
11. Check the following items during engine idle:
 - Electric water pump 1 duty: 68-83%
 - If it applies: Electric water pump 2 duty (TURBO HIGH PRESSURE MODEL only): 68-83%

NOTE: If the value of duty shows 84-92% for more than 5 seconds, turn the engine OFF, and then skip to step 13.

12. Turn the engine OFF.
13. Fill the reservoir tank up to the "MAX" line.
 - Refer to the Electronic Service Manual, section MA-Maintenance, for correct type of long life coolant.
14. Repeat steps 8 through 13 until the duty value is stable at 68-83% for more than 3 minutes.
15. After step 14 has been satisfied (completed), repeat steps 8 through 13 one more time.
16. Turn the engine OFF.
17. Using a suitable cooling system pressure tester, pressure test the intercooler cooling system, and then check for leaks.
 - Bring the test pressure up to 151.7kPa (1.5kg/cm², **22 PSI**)
 - Repair any leaks found.
18. Slowly release the test pressure, and then install reservoir tank cap.
19. Erase all related DTCs.