

Supercharger Cooling System Draining, Filling and Bleeding (19.46.01)

NOTE:

This procedure is used only when components within the supercharger cooling circuit are disconnected or replaced.

1. Disconnect the battery ground cable.

2. Remove the engine cover.

[Engine Cover - 4.2L, Vehicles With: Supercharger \(12.30.50\)](#)

3. Connect the battery ground cable.

4.



CAUTION: Engine coolant will damage the paint finished surfaces. If spilt, immediately remove the coolant and clean the area with water.



CAUTION: Damage to the charge air cooler coolant pump will occur if the pump is allowed to cavitate.

NOTE:

With the ignition key turned to position II the charge air coolant pump will run, to aid coolant bleed. Make sure the charge air coolant pump is primed prior to running the pump.

Top-up and bleed the supercharger cooling system.

- Remove the coolant expansion tank cap.
- Loosen the coolant expansion tank bleed screw.
- Turn the ignition key to position II.
- Add coolant to the expansion tank as required.



5. When coolant runs from the expansion tank, bubble free, tighten the bleed screw.

6. Check and top-up the coolant.



Turn the ignition switch to the OFF position.



Install the coolant expansion tank cap.

7. Install the engine cover.

[Engine Cover - 4.2L, Vehicles With: Supercharger \(12.30.50\)](#)