

Repair Manuals

Electric motor/inverter cooling system: drain/refill (Worldwide)

Electric motor/inverter cooling system drain

Allow the system to cool down

Check for any fault codes

Rectify all the faults indicated

De-energise the high-voltage system

Turn the electric vehicle (EV) power switch OFF

Store all keyless entry transmitters in a secure location outside the transmission range

Remove the expansion tank pressure cap

Raise the vehicle

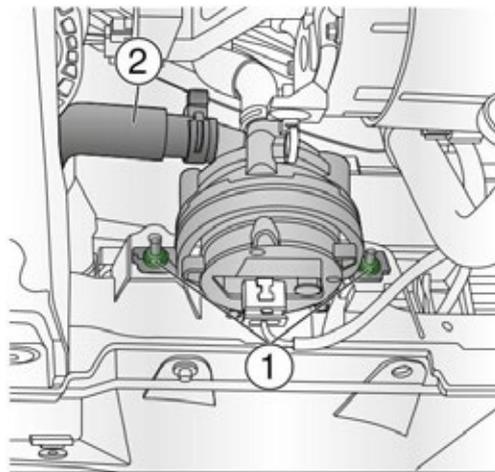
Remove the front underbody cover

Place a draining tray under the electric motor/inverter

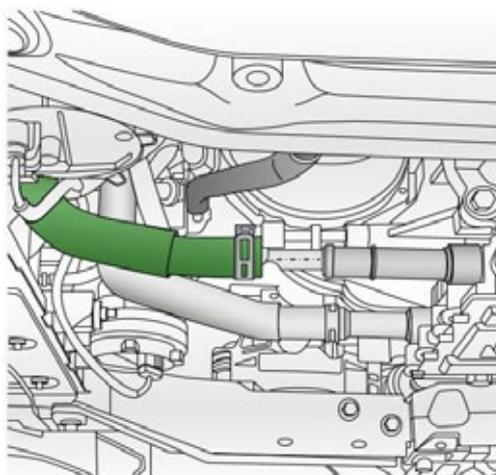
Remove the coolant pump nuts ((1))

Lower the coolant pump

Disconnect the hose at the coolant pump ((2))



Disconnect the coolant hose

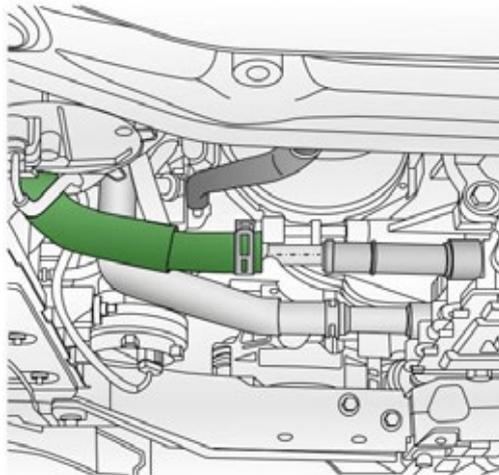


Drain the coolant

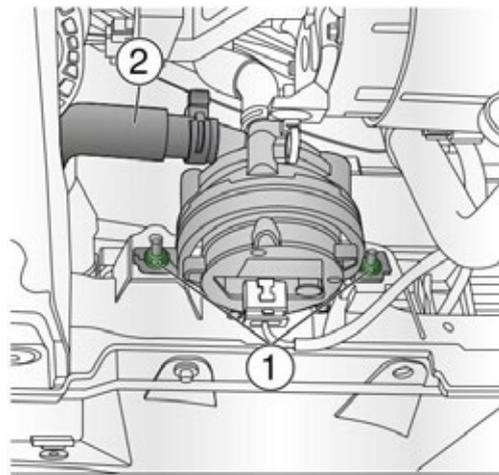
Electric motor/inverter cooling system refill

Reconnect the coolant hose

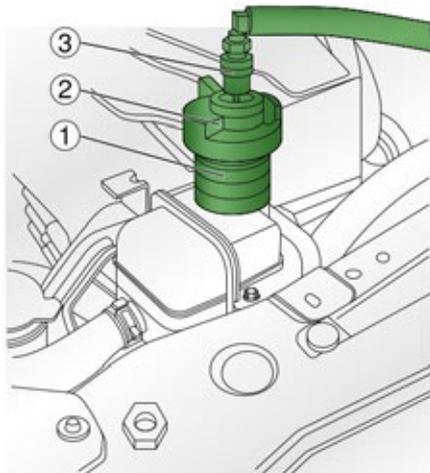
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- Refit the coolant pump nuts ((1))
- Reconnect the hose to the coolant pump ((2))

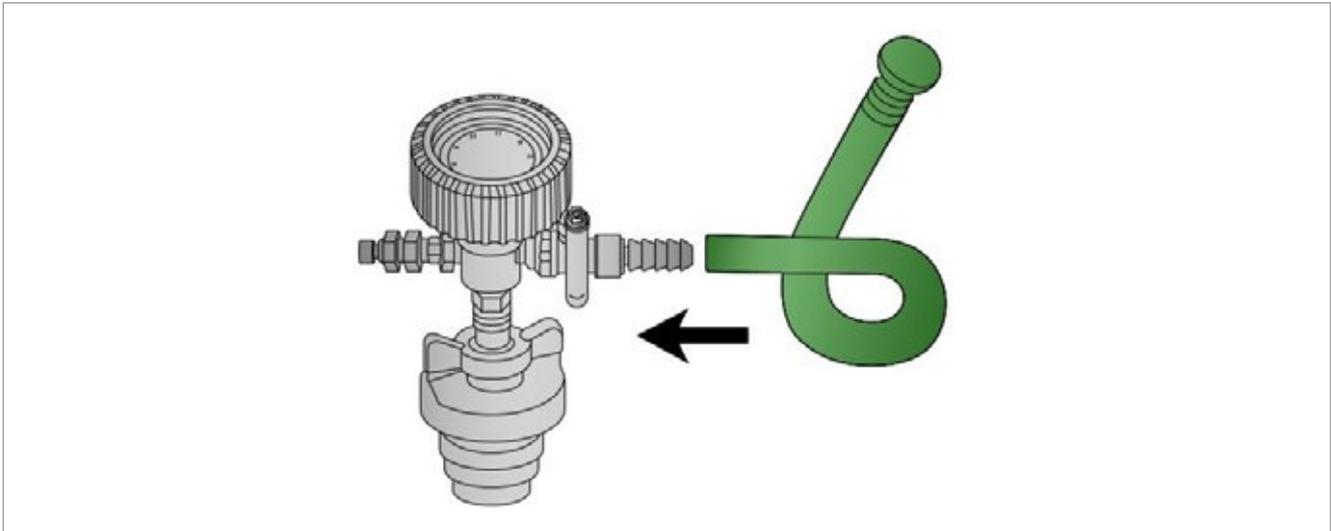


- Refit the front underbody cover
- Lower the vehicle
- Fit an adaptor to the expansion tank ((1)) (GE-46143-2)
- Connect the pressure cap to the adaptor ((2))
- Connect the vacuum hose to the pressure cap ((3))



- Connect the filler hose to the pressure gauge
- Ensure the valve is closed

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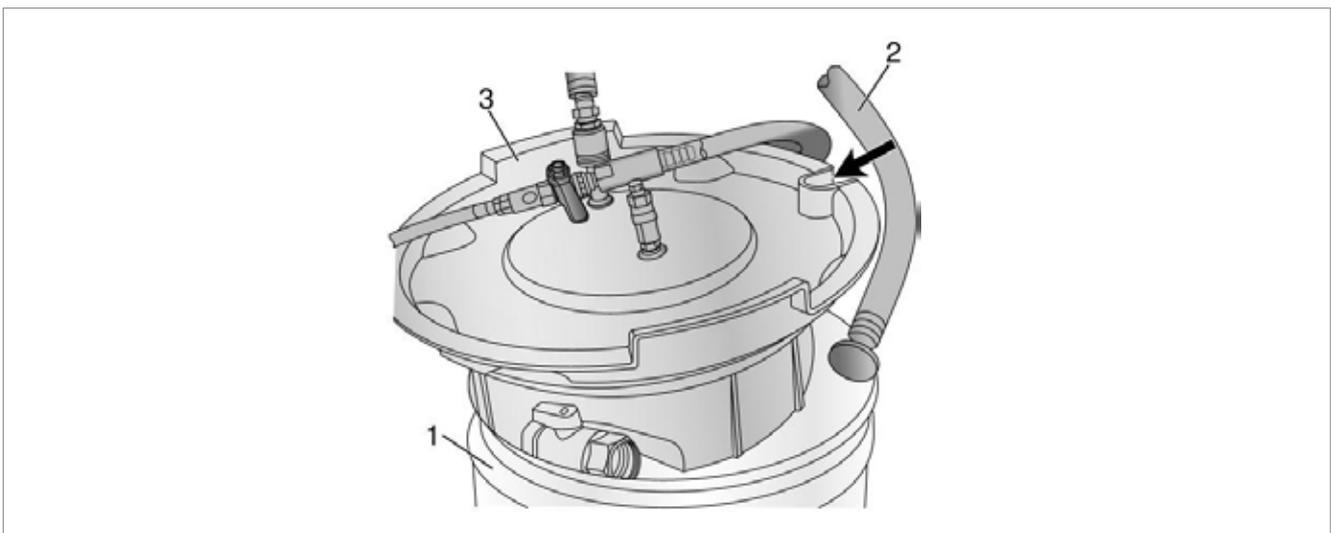
Fill a measuring container with coolant ((1))

Prepare sufficient coolant, more than system capacity

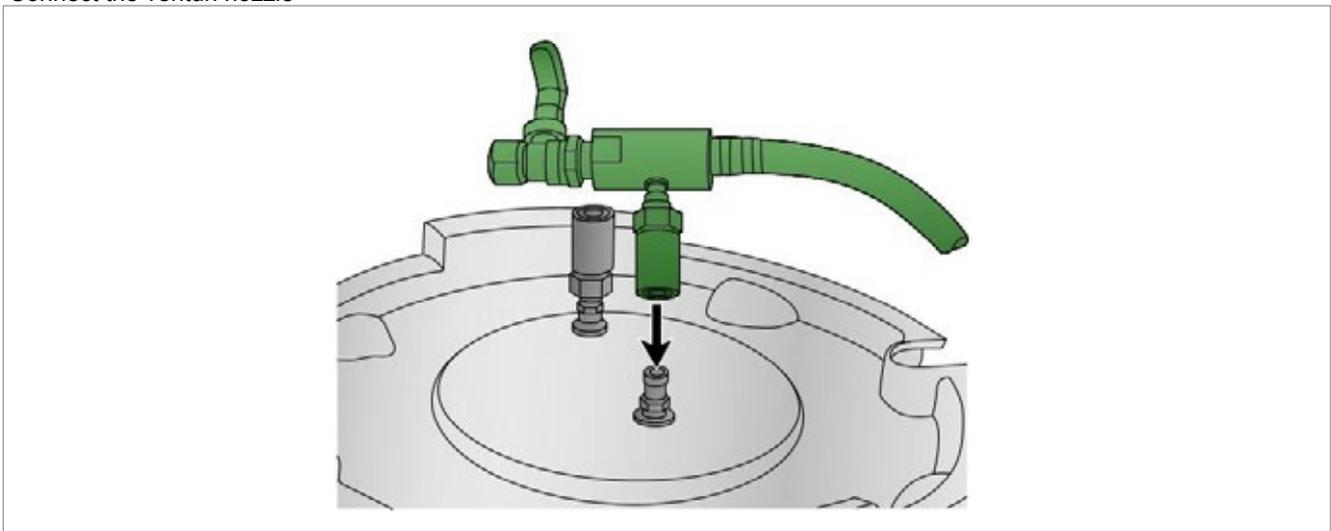
Fit the coolant filler hose as shown ((2))

Note: Ensure correct fitting

Fit the vacuum tank onto the measuring container ((3)). Ensure the valve is closed.



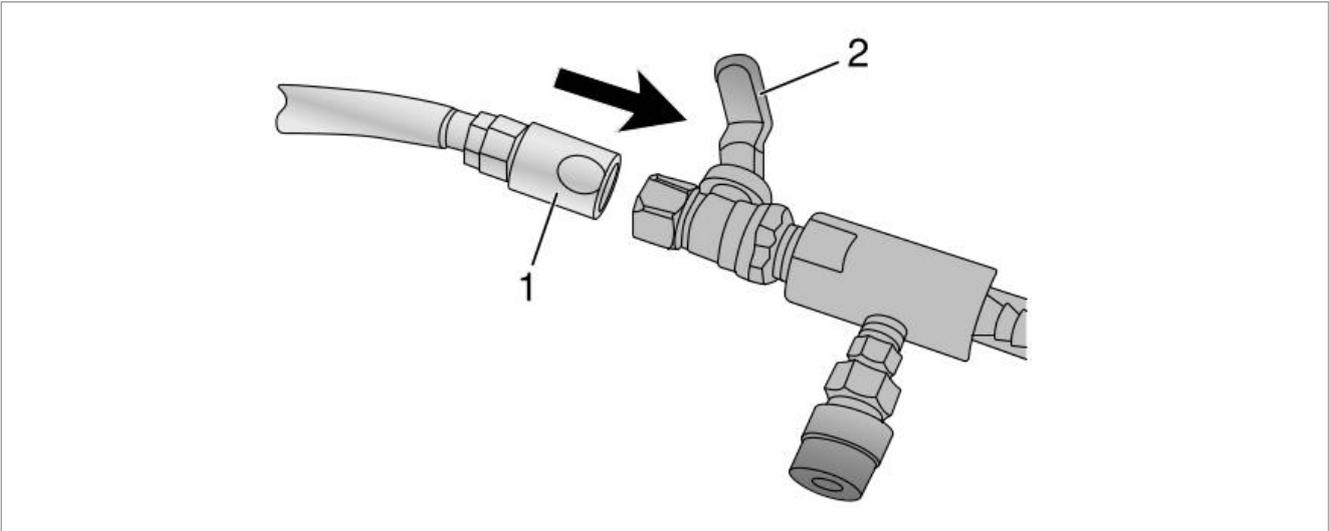
Connect the venturi nozzle



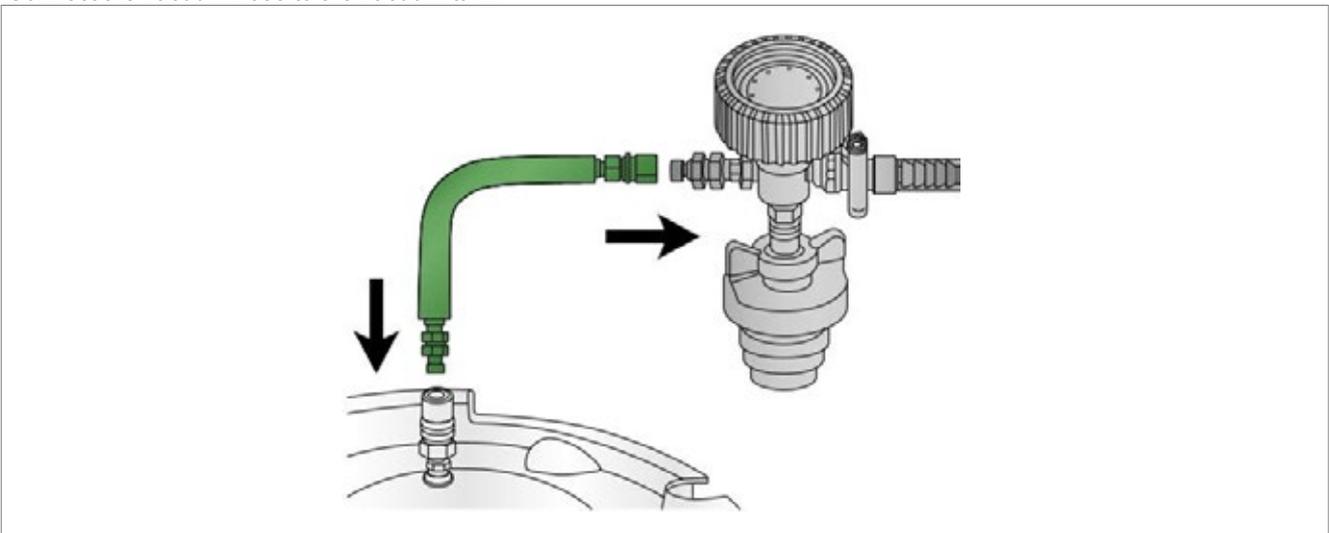
Close the venturi unit valve ((2))

Connect the compressed air connection to the venturi nozzle ((1))

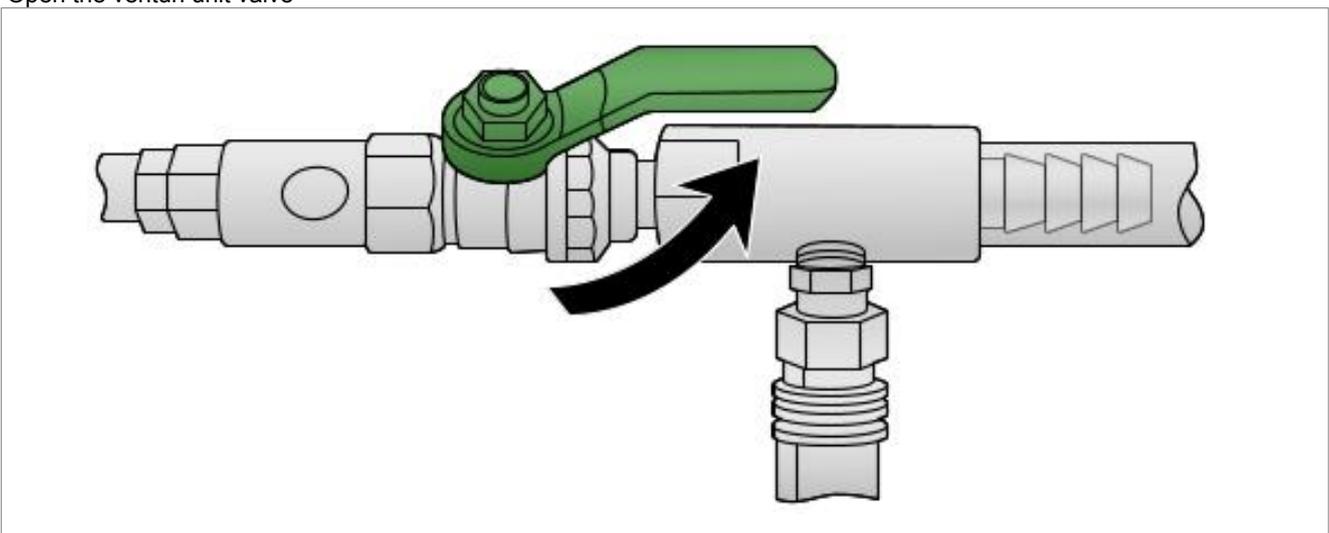
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Connect the vacuum hose to the pressure gauge
 Connect the vacuum hose to the vacuum tank



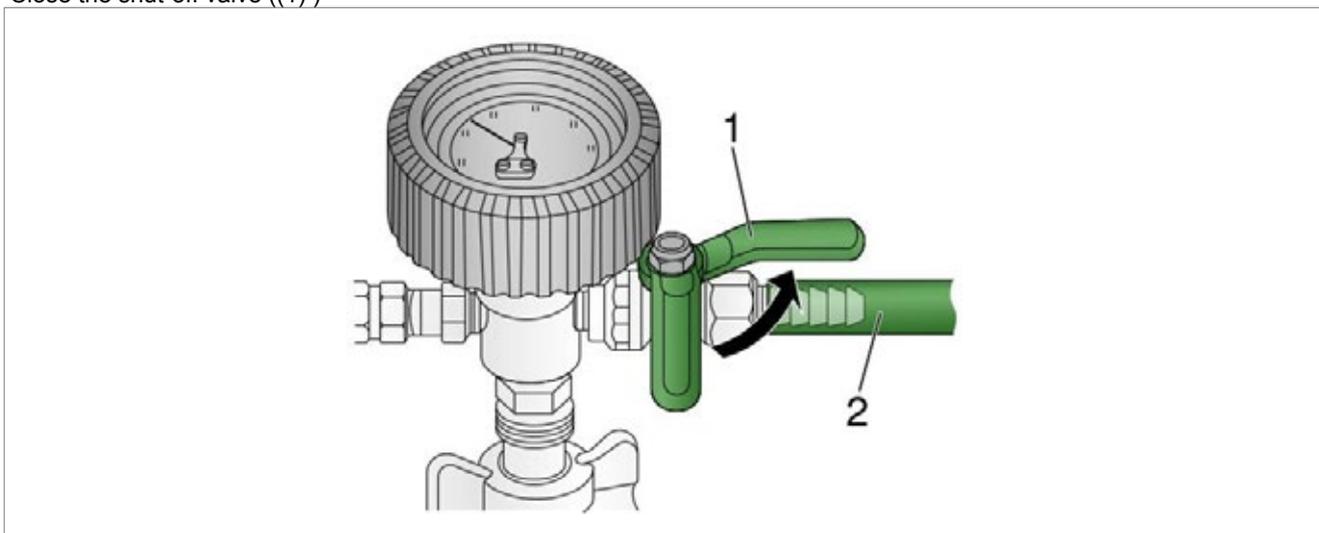
Open the venturi unit valve



The vacuum pressure will increase
 A hissing noise will be audible
 Wait until the vacuum pressure reaches the following value (bar): ((0.81 - 0.87))
 Raise the measuring container above the expansion tank
 Open the shut-off valve ((1))
 Wait until the hose has filled with coolant ((2))

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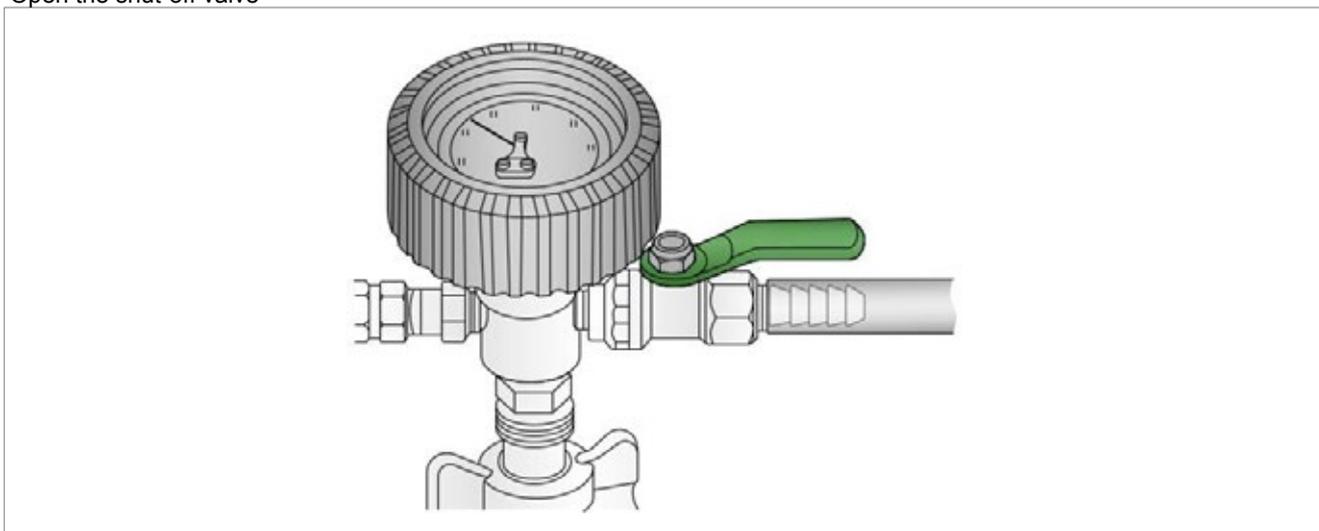
Close the shut-off valve ((1))



Close the venturi unit valve

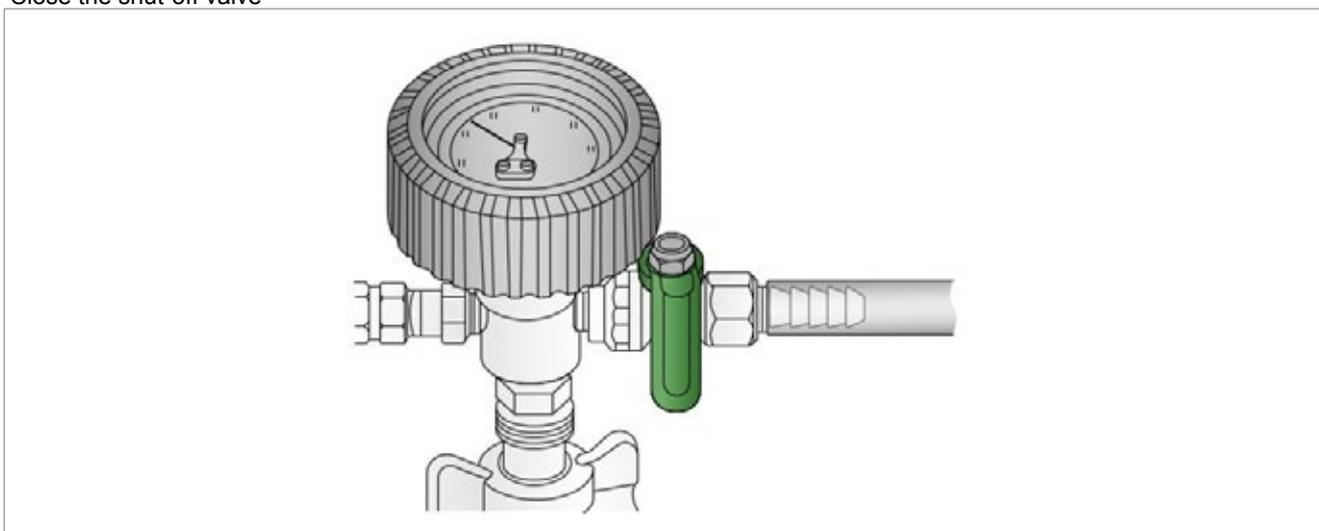
If the vacuum drops, check for leaks

Open the shut-off valve



Wait until the vacuum pressure reaches the following value (bar): ((0.0))

Close the shut-off valve



Open the venturi unit valve

The vacuum pressure will increase

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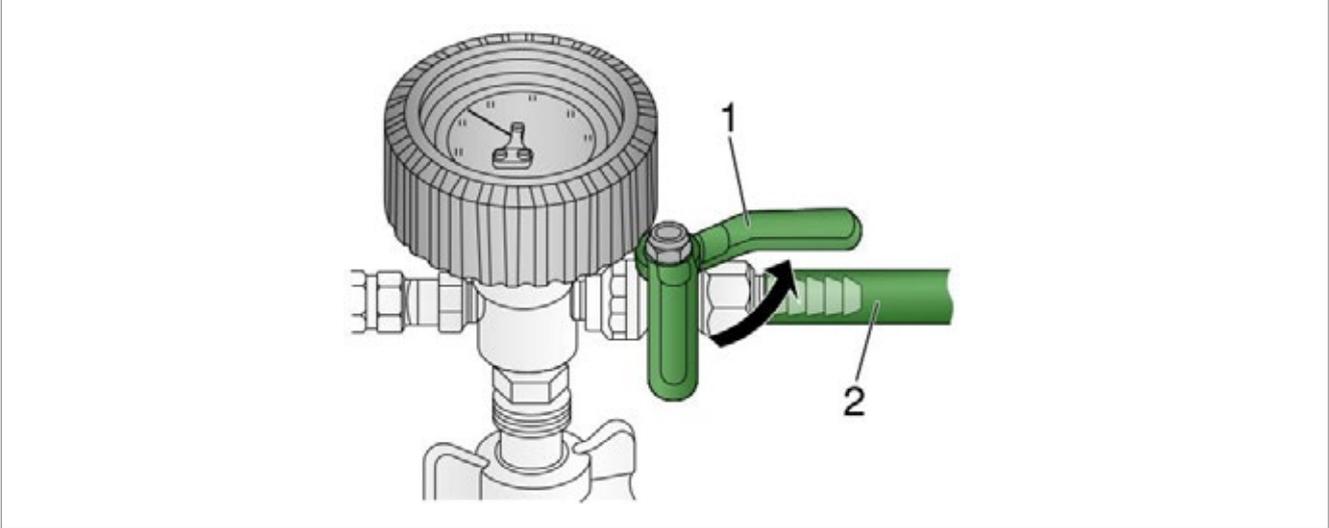
A hissing noise will be audible

Wait until the vacuum pressure reaches the following value (bar): ((0.81 - 0.87))

Open the shut-off valve ((1))

Wait until the hose has filled with coolant ((2))

Close the shut-off valve ((1))



Activate the service mode

Note: Do not press the brake pedal during the procedure

Press and hold the electric vehicle (EV) power switch for 5 seconds

The service mode will be activated for 3 hours

Keyless start remote control removal may cause service mode deactivation

Procedure if the service mode deactivates after 1.5 hours:

Press and hold the electric vehicle (EV) power switch for 10 seconds

The service mode will remain active until manually deactivated

Using the diagnostic tool:

Activate the coolant pump

Wait until the vacuum pressure reaches the following value (bar): ((0.5))

Wait for 5 minutes

Remove the adaptor (GE-46143-2)

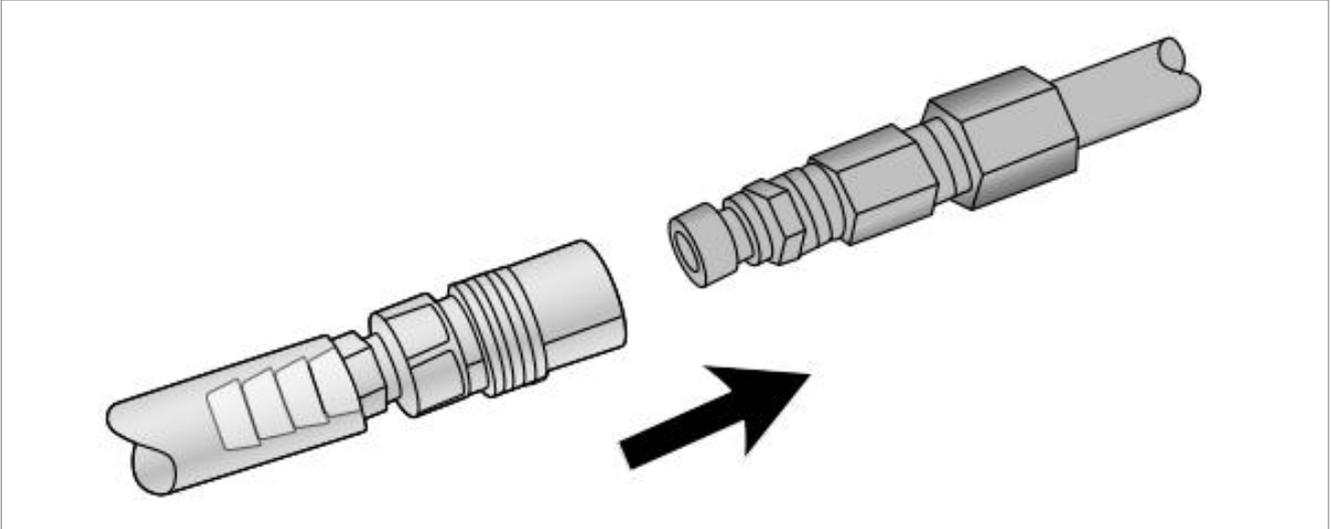
Top up the coolant level to slightly above the MAX mark

Check the anti-freeze strength (GE-26568)

If the coolant level is too high, proceed as follows:

Disconnect the vacuum hose from the pressure gauge

Connect the vacuum hose to the drain hose

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Open the venturi unit valve

Fit the drain hose to the expansion tank

Adjust the coolant level to slightly above the MAX mark

Drain the coolant from the vacuum tank (GE-47716)

Collect the escaping fluid in a container

Deactivate the service mode

Move the gear lever to position 'P'

Press the electric vehicle (EV) power switch

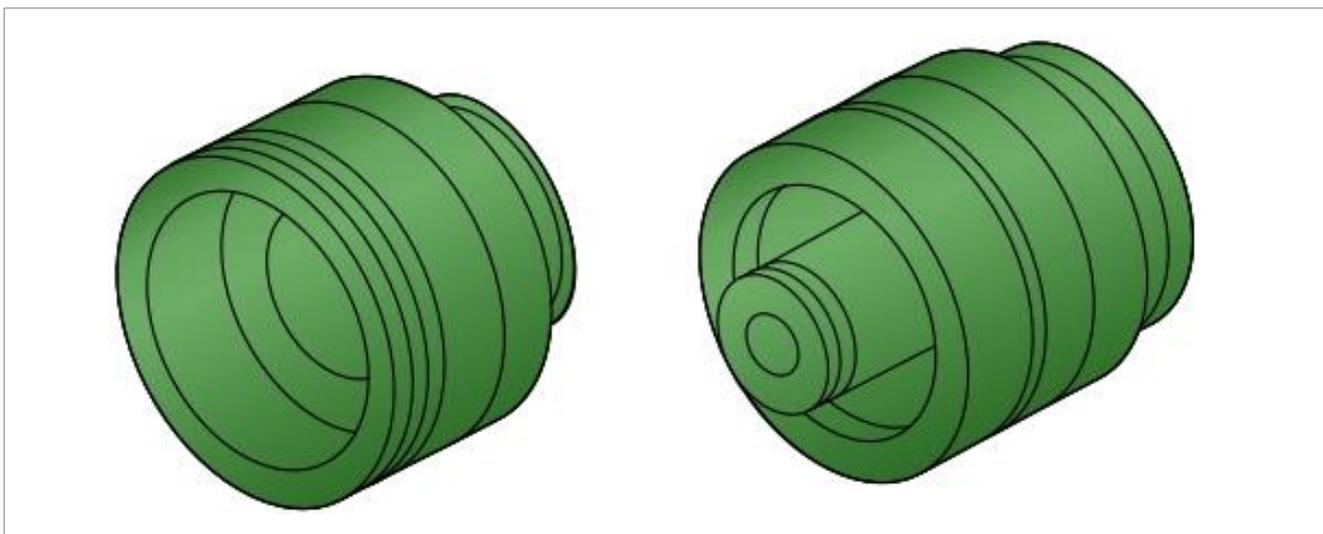
Special tools

Filling tool: (GE-47716)

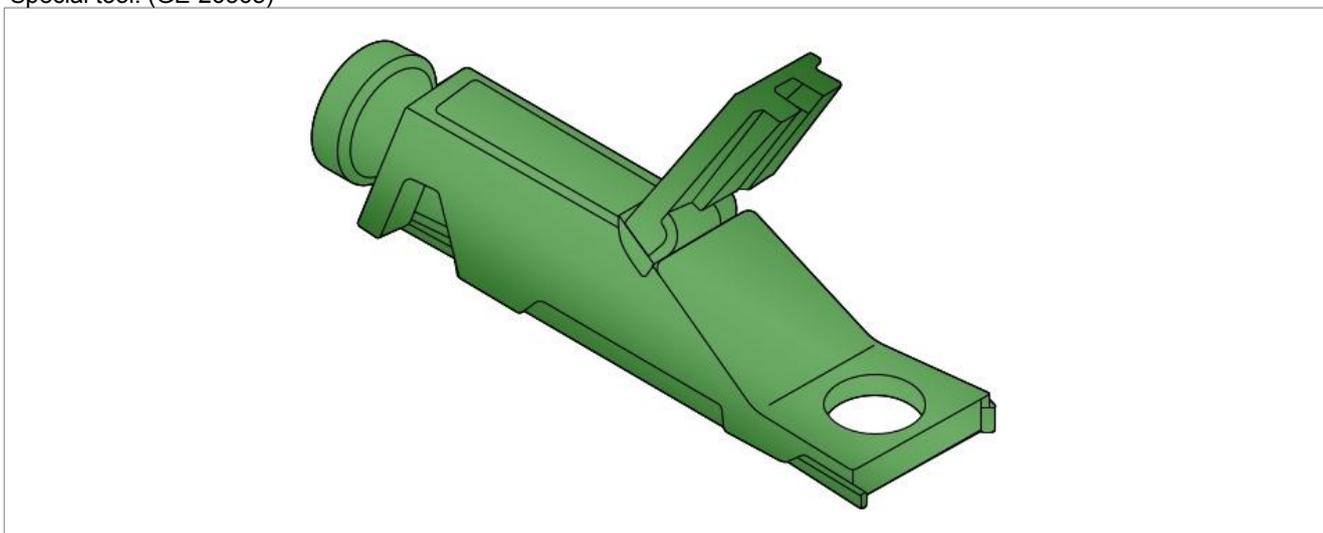


Adaptor: (GE-46143-2)

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Special tool: (GE-26568)



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