

General Procedures

General Equipment

Air Conditioning Service Unit
Forming Gas Pressure Gauge and Leak Detector
Forming Gas Pressure Gauge and Leak Detector Set
Hydrogen Leak Detector
Refrigerant Identification Equipment

Materials

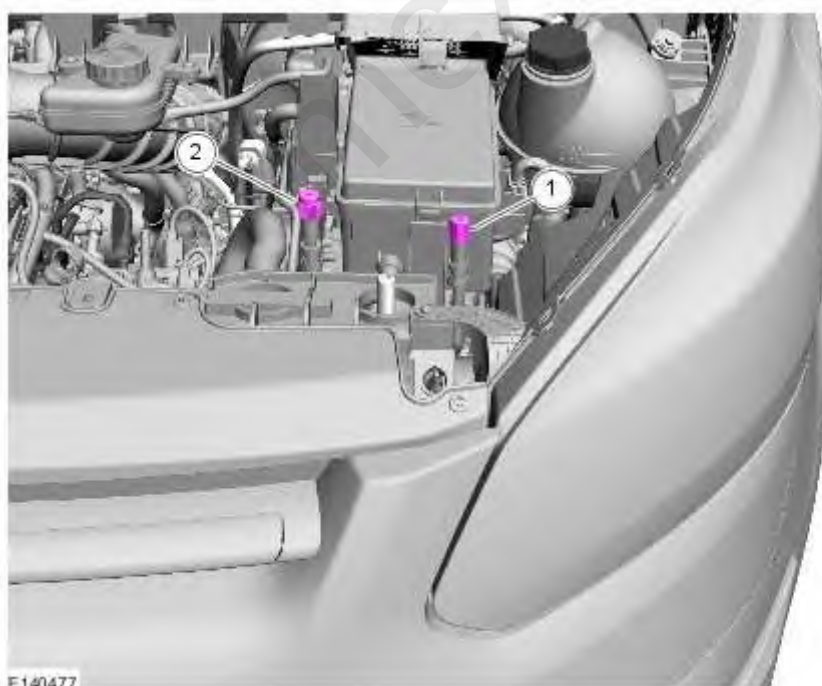
Name	Specification
Forming Gas	-

Activation

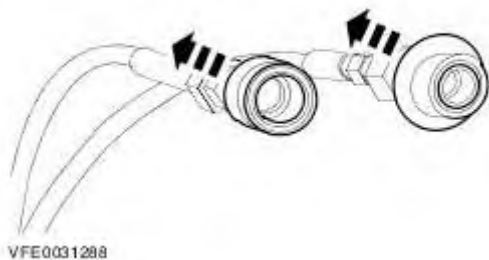
1. Refer to: [Climate Control System Health and Safety Precautions](#) (100-00 General Information, Description and Operation).
2. Unscrew and remove the protective caps from the A/C charging connections.

Use the General Equipments: [Air Conditioning Service Unit](#), [Refrigerant Identification Equipment](#)

3.
 1. Low-pressure connection
 2. High-pressure connection
4. Use the refrigerant analyzer before recovery, otherwise the refrigerant center may become contaminated. Dispose of contaminated refrigerant as hazardous waste. Always follow the manufacturer's instructions when using the refrigerant center and the refrigerant analyzer.



5. Connect the service unit lines to the filling connections of the air conditioning system.



6. Drain the air conditioning system in accordance with the service unit manufacturer instructions.
7. Evacuate the air conditioning system in accordance with the service unit manufacturer instructions.
8. Perform the vacuum leak test in accordance with the service unit manufacturer instructions.
9. Disconnect the service unit from the air conditioning system in accordance with the manufacturer instructions.

NOTE: The following steps are only necessary when using the forming gas pressure gauge and leak detector.

10. Connect the forming gas pressure gauge and leak detector service hose to the low-pressure port of the air conditioning system in accordance with the manufacturer instructions.

Use the General Equipment: [Forming Gas Pressure Gauge and Leak Detector](#)
Material: - [\(Forming Gas\)](#)



11.

1.  **NOTICE:** Make sure that the pressure reducer (2) is closed.
Open the bottle valve.
2. Slowly turn the pressure reducer until a pressure of 10 bar is reached.
3. Close the bottle valve.



NOTE: The following steps are only necessary when using the forming gas pressure gauge and leak detector set.

12. Connect the forming gas pressure gauge and leak detector set service hoses to the high-pressure and low-pressure port of the air conditioning system in accordance with the service unit manufacturer instructions.

Use the General Equipment: [Forming Gas Pressure Gauge and Leak Detector Set](#)
Material: - [\(Forming Gas\)](#)



13.

1.  **NOTICE:** Make sure that the cut-off valve (2) is closed.
 Turn the pressure reducer until a pressure of 8 bar is reached.
2. Slowly open the cut-off valve.
3. Close the cut-off valve.



All vehicles

14. Locate and rectify any leaks in the A/C refrigerant circuit in accordance with the hydrogen leak detector manufacturer instructions.

Use the General Equipment: [Hydrogen Leak Detector](#)

15. Disconnect the forming gas pressure gauge and leak detector from the air conditioning system in accordance with the manufacturer instructions.
16. Connect the service unit lines to the filling connections of the air conditioning system.
17. **NOTICE:**



Make sure that the specified amount of refrigerant oil is added.



Make sure that tracer dye is added.

NOTE: After adding tracer dye into the air conditioning (A/C) system, the decal supplied with the tracer dye must be positioned.

Fill the air conditioning system in accordance with the service unit manufacturer instructions.

Refer to: [Specifications](#) (412-00 Climate Control System - General Information, Specifications).

Refer to: [Refrigerant Oil Adding](#) (412-00 Climate Control System - General Information, General Procedures).

18. Disconnect the service unit in from the air conditioning system in accordance with the manufacturer instructions.
19. Screw the protective caps onto the charging connections.