Air Conditioning (A/C) Compressor Leak Detection

Special Tool(s) / General Equipment

Air Conditioning Service Unit
Electronic Leak Detector
Air Conditioning Adaptor Kit

Leak detection

1. Recover the refrigerant. Refer to Air Conditioning (A/C) System Recovery, Evacuation and Charging procedure in Group 412.
2. Disconnect the refrigerant lines from the A/C compressor. Refer to the appropriate section in Group 412 for the procedure.
3. Install the adapters from the A/C Flush Adapter Kit on the ports of the A/C compressor, using the existing retaining bolts.
   - 219-00082 ACF-3000 33PC Adapter Kit - Revised 1st released 44pc kit
   - 219-00083 A/C Flushing Adapter Kit 2 of 3 (Previously "Supplement A", 2nd released kit)
   - 219-00084 A/C Flushing Adapter Kit 3 of 3
     Use the General Equipment: Air Conditioning Adaptor Kit
4. Connect the high and low pressure lines of the air conditioning service unit to the corresponding fittings on the adapter.
   - 265â€37887 Ritchie R134A A/C Refrigerant Hybrid Management System
     Use the General Equipment: Air Conditioning Service Unit
5. Charge the A/C compressor following the air conditioning service unit instructions. Open the low pressure valve, the high pressure valve and set the refrigerant charge amount to 0.23 kg (8 oz).
6. **NOTE:** *Use a Rotunda-approved Electronic Leak Detector for R-134a refrigerant SAE Certified to J2791.*

   Using the Refrigerant Leak Detector, check for leaks at the compressor shaft.
   - 023â€22791 Robinair Infrared A/C Refrigerant Leak Detector w/Case
     Use the General Equipment: Electronic Leak Detector
7. When the leak test is complete, recover the refrigerant from the compressor.
8. If an external leak is found, install a new A/C compressor.