

Electronic Leak Detection - Vehicles With: R1234YF Refrigerant

Special Tool(s) / General Equipment

Electronic Leak Detector

Inspection

1. **NOTE:** Use a Rotunda-approved Electronic Leak Detector for R-1234yf refrigerant SAE Certified to J2913.

NOTE: Good ventilation is necessary in the area where electronic A/C leak testing is to be carried out. If the surrounding air is contaminated with refrigerant gas, the leak detector indicates this gas all the time. Odors from other chemicals such as antifreeze, disc brake cleaner or other cleaning solvents can cause the same problem. Using a fan to ventilate the area to be tested before proceeding with the leak detection procedure is helpful in removing small traces of contamination from the air, but the fan should be turned off during actual testing.

NOTE: If the surrounding air is contaminated with refrigerant gas, the leak detector indicates this gas all the time. Odors from other chemicals such as antifreeze, disc brake cleaner or other cleaning solvents can cause the same problem.

NOTE: R-1234yf, if present, is heavier than air, and tends to move down from the source of the leak. It is possible that a leak may not be detected if the leak detector tip is held above the leaking fitting, line or component. Always be sure to thoroughly leak test below, above and around the fitting, line or component for the presence of R-1234yf.

Leak check the service ports. Remove caps and blow air over the service ports to remove trapped refrigerant before leak testing ports.

- 023•22791 Robinair Infrared A/C Refrigerant Leak Detector w/Case
Use the General Equipment: Electronic Leak Detector

2. **NOTE:** The system pressure should be 413-551 kPa (60 - 80 psi) at 24° C (75.2° F) with the

engine off and cool. The pressure reading may be higher if the engine is hot.

Leak test the refrigerant system. Follow the instructions included with the Electronic Leak Detector for handling and operation techniques.

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