

Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2006 CHEVROLET Express OEM Service and Repair Workshop Manual

[Go to manual page](#)

Sample

Note

In certain regions, technicians repairing or servicing motor vehicle air conditioning (MVAC) systems must be trained and certified by the appropriate regional or national regulatory agency.

- In the USA, refer to the EPA website for MVAC training requirements. **EPA MVAC Training Requirements**
- In Canada, refer to the Environment Canada website for MVAC training requirements. **Canada.ca**
- In Europe, refer to Commission Regulation (EC) No 307/2008 for MVAC training requirements. **EC MVAC Training Requirements**

MVAC service shops must certify to the EPA that they have acquired and are properly using approved refrigerant recovery equipment. Service shops must also verify (with on site documentation) that each person using the equipment has been properly trained and certified. MVAC service shops must maintain records of the names and addresses of facilities to which the refrigerant they recover is sent.

Vehicles equipped with R-1234yf refrigerant systems have unique low and high side service fittings.

The proper handling procedures should be followed for all refrigerants as designated by the refrigerant manufacturer's Material Safety Data Sheet (MSDS).

Service Port Access Procedure — Removal

To prevent accidental release of refrigerant and minimize safety concerns, the installation of any refrigerant service equipment to the vehicle shall only be done with the engine off and after the refrigerant high side pressure has been reduced (approximately 2–3 minutes).

Open the windows and/or doors before charging the vehicle to prevent an accumulation of refrigerant in case of a major refrigerant leak.

WARNING

Warning

R-1234yf is heavier than air and may accumulate in low or pit areas – make sure these areas are properly ventilated. Failure to follow this precaution may cause personal injury.

Refrigerant service equipment is required to ensure adequate refrigerant recovery to reduce emissions and provide for accurate recharging of mobile air conditioning systems. Venting refrigerant to the atmosphere is illegal per United States Environmental Protection Agency (EPA) Clean Air Act Section 608.

WARNING

Warning

To prevent personal injury, avoid breathing any refrigerant vapor and lubricant mist. Servicing of R-1234yf systems shall only be done in well ventilated work areas. To remove R-1234yf refrigerant from the A/C refrigerant system, recover using SAE J2843 certified equipment. Un-controlled release of R-1234yf refrigerant in the work area may result in high concentrations of R-1234yf that can be flammable. If an accidental system discharge occurs, ventilate the work area before continuing service. Failure to follow these precautions may cause personal injury and/or damage to the vehicle or its components.

WARNING

Warning

For personal protection, goggles and lint-free gloves must be worn and a clean cloth wrapped around fittings, valves, and connections when doing work that includes opening the refrigerant system. If refrigerant comes in contact with any part of the body severe frostbite and personal injury can result. The exposed area should be flushed immediately with cold water and prompt medical help should be obtained.

CAUTION

into the vehicles refrigerant system. The technician monitors the electronic leak detector for 5 minutes or until the detector alarms.

The equipments display will then ask the following:

1. Was this test performed If the technician replies Yes, the display next shall ask,
2. Was a leak found If technician replies Yes, the machine shall only allow recovery and evacuation to allow repair. If the technician replies No, the display shall continue with,
3. Is there an auxiliary evaporator If the technician replies No the machine shall permit completion of the recharge process. If the technician replies Yes, the display shall instruct the technician to perform a leak check with **GE-50078 *Electronic Leak Detector*** or a GE-50078 compliant detector at a rear evaporator outlet, then ask,
4. Was an auxiliary evaporator leak check performed If the technician replies Yes, the display will continue with Was a leak found and if the answer is Yes, the machine shall only allow recovery and evacuation to allow repair. If the technician replies No, the machine shall permit completion of the recharge process.

A/C Refrigerant System Oil Charge Replenishing

If oil was removed from the A/C system during the recovery process or due to component replacement, the oil must be replenished. Oil can be injected into a charged system using **GE-45037 *injector*** with **GE-50744 *A/C R-1234yf PAG Oil Injector Hose*** or **GE-50745 *A/C R-1234yf POE Oil Injector Hose***. For the proper quantities of oil to add to the A/C refrigerant system, refer to [Approximate Fluid Capacities](#) and [Air Conditioning Compressor Oil Balancing](#).

CAUTION

Caution

Refer to [Fastener Caution](#).

After completing the recharge process, install and torque the charge port caps to **1.3 N·m (12 lb in)**

Service Port Access Procedure — Installation