

A/C Compressor & Magnetic Clutch Installation Instructions

Prior to the installation of this DENSO First Time Fit® A/C compressor kit, you must read these instructions completely.

Definition of Terms

AWARNING: Describes precautions that should be observed in order to prevent injury or

death to the user during installation.

ACAUTION: Describes precautions that should be observed in order to prevent damage to

the vehicle or its components, which may occur during installation if sufficient

care is not taken.

NOTE: Provides additional information that facilitates installation work.

General Service Information and Requirements

△CAUTION: Only trained/certified personnel who have a thorough knowledge of automotive air conditioning systems should perform repairs to the air conditioning system.

AWARNING: Tests under controlled conditions have indicated that some refrigerants can result in combustion when exposed to an ignition source. Shop air should not be used for leak checking.

REQUIRED TOOLS:

Safety Goggles
Assorted Hand Tools
Refrigerant Recovery Machine
Charging Station / A/C Manifold Gauge Set
Vacuum Pump
Electronic Leak Detector
Torque Wrench
Belt Tension Gauge
Magnetic Clutch Pressure Plate Remover

SAFETY PRECAUTIONS

AWARNING: DENSO compressors are sealed, pressurized and contain factory-specified amounts of refrigerant oil used in the original design of the unit. PRIOR to removal of shipping plates or unit installation, you must read these instructions completely.

- Always wear safety goggles.
- · Avoid skin contact with refrigerant or refrigerant oil.
- · Work in a well-ventilated area.
- Never release refrigerant into the atmosphere.
- Never expose refrigerant container to direct heat or temperature in excess of 125°F.
- · Never expose refrigerant to an open flame.

Compressor Removal Procedure

NOTE: Before removal of the compressor, please refer to the appropriate manufacturer's service manual for complete instructions.

- 1. Disconnect negative (-) ground cable from battery.
- 2. Disconnect A/C compressor lead wire from the vehicle harness.
- Using a certified refrigerant recovery machine, reclaim the old refrigerant from the A/C system.
- Disconnect the suction and discharge hoses from the compressor and quickly cap the hose ends to reduce the amount of moisture entering the A/C system.
- Loosen and remove the compressor drive belt.
- 6. Remove compressor mounting bolts and remove compressor.

NOTE: The compressor contains a charge of refrigerant lubricant; however, you must compare the level of compressor lubricant between the new compressor and the compressor being replaced (See Fig. 1).

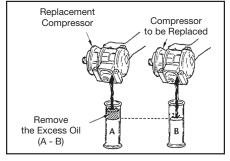


Fig. 1

Compressor Installation

NOTE: Before installing the compressor, please refer to the appropriate manufacturer's service manual for complete instructions.

- Place the compressor on a flat surface with the service valve in an upright position.
 Hand turn the clutch pressure plate a minimum of 10 times to release lubricant from the compressor head.
- Install the compressor to the engine and/or engine bracket, tighten and torque the bolts to factory specifications. Refer to appropriate manufacturer's service manual for correct bolt tightening sequence and torque.
- 3. Install compressor drive belt to compressor and tighten to factory specifications. Refer to appropriate manufacturer's service manual for correct bolt tightening sequence and torque.
- 4. Using the appropriate compressor oil, lubricate and install new O-ring(s) to the suction and discharge hoses. Connect and torque the hoses to compressor. Refer to the vehicle manufacturer's service manual for proper belt tension.

- 5. Connect A/C compressor lead wire to vehicle harness.
- To insure system performance and protection, always install a new receiver drier or accumulator when replacing the compressor.

NOTE: Receiver drier or accumulator replacement is mandatory as a condition for warranty acceptance.

- 7. Connect negative (ground) cable to battery.
- 8. Evacuate and recharge A/C system.
 - Protect eyes and skin during recharging by using safety goggles and appropriate hand wear.
 - Connect manifold gauge set & vacuum pump/refrigerant charging station and evacuate A/C system for a minimum of 30 minutes at 60-75 cmHG (24-29 inHG) of vacuum.
 - Charge the A/C system with refrigerant per the factory specifications.
 - Use the appropriate electronic leak detector to check the compressor and hose connections for leaks.
 - DO NOT overcharge the A/C system.