

AC COMPRESSOR

Instruction Sheet for A/C Compressor Kit installation

NOTE: This kit may include 1 or 2 expansion valves depending on whether the vehicle has Rear A/C (light / medium duty) or optional sleeper cab (heavy duty trucks). Please disregard if not needed.

It is important to determine why the compressor failed before installing the new unit:

- Most compressor failures are due to lack of lubrication. If the old compressor has little or no oil in it, there is probably a leak in the system. Even a small reduction in the amount of refrigerant or oil will cause compressor damage. An internal restriction can also prevent oil from returning to the compressor.
- Voltage to coil should be 12V minimum. Less than 12V will cause the clutch to slip and generate very high heat, which quickly destroys the shaft seal/bearing/coil/pulley/hub and compressor.
- A dirty / clogged condenser and/or an inoperative / weak fan or fan clutch causes high head pressure.
- Debris in system causes restrictions to oil/refrigerant flow, clogged components, seal damage.



WARRANTY

Backed by the Alliance 1-year/unlimited mile warranty



ALL MAKES AND MODELS¹

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Critical steps to perform during installation:

- Wear eye and skin protection. Compressors may be shipped under pressure-use caution when removing shipping caps and plugs.
- Recover refrigerants before opening the system.
- The entire system **MUST** be clean. All components that are not replaced should be flushed with approved cleaning agent-**EXCEPT** compressors, driers, expansion valves, hoses with baffles and small tube condensers.
- The correct type and amount of oil and refrigerant must be installed. The best method is to start with a clean and empty system. Refer to the Manufacturers Service info for specs. **Important Note: The amount of oil in the new compressor is not always the correct amount for the entire system.** Draining the oil from the new compressor is the best method to be sure that you install the correct type and amount.
- **Note for Heavy Duty Trucks with sleeper cabs:** A/C Systems with sleepers will require additional oil. Half of the new oil should be installed into the compressor suction port, the other half goes into the drier. With the oil in the compressor, place the compressor nose down for 3 minutes to lubricate the shaft seal.
- After the compressor is mounted and hoses are connected, turn the compressor shaft by hand at least 10 times. This will remove any excess oil from the cylinders which could damage the reed valves.
- Evacuate the system for a minimum of 45 minutes.



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