



# ***REACH***

***A/C COMPRESSOR INSTALLATION MANUAL***

# **INSTALLATION MANUAL**

## **CHANGING A VEHICLE'S A/C COMPRESSOR**

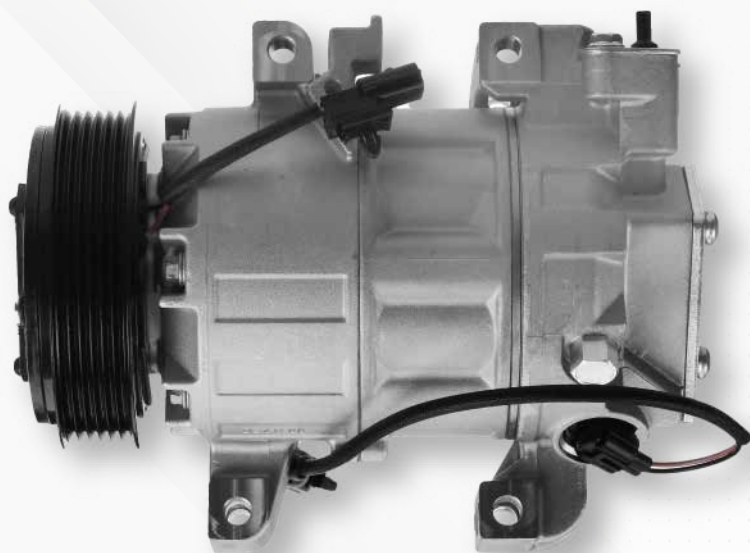
Changing a vehicle's A/C Compressor is a relatively straightforward task that can be done with basic tools. Here's a step-by-step guide to help you through the process.

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## ***TOOLS AND MATERIALS REQUIRED:***

1. New A/C compressor
2. Refrigerant recovery machine
3. Refrigerant manifold gauge set
4. Socket set
5. Wrench set
6. Screwdrivers
7. Pliers
8. A/C system flush kit
9. A/C oil
10. Replacement O-rings
11. Safety glasses
12. Gloves
13. Refrigerant



## ***STEP-BY-STEP INSTRUCTIONS:***

### ***STEP 1: SAFETY PRECAUTIONS***

1. Park the vehicle on a flat, level surface and engage the parking brake.
2. Turn off the engine and ensure it has completely cooled.
3. Wear safety glasses and gloves to protect yourself from potential hazards.

**Warning:** Always work in a well-ventilated area when handling refrigerant and follow environmental guidelines for disposal.





## **STEP 2** **REFRIGERANT RECOVERY**

1. Connect the refrigerant recovery machine to the A/C system.
2. Operate the machine as per the manufacturer's instructions to recover any refrigerant from the system safely.

**Note:** It's illegal to release refrigerant into the atmosphere. Ensure proper handling.



## **STEP 3** **DISCONNECT THE BATTERY**

1. Disconnect the negative terminal of the vehicle's battery to prevent electrical accidents.



## **STEP 4** **LOCATE THE A/C COMPRESSOR**

1. The A/C compressor is typically located at the front of the engine and is driven by a belt connected to the crankshaft.
2. Refer to the vehicle's manual if you are unsure of its exact location.



## STEP 5 REMOVE THE BELT

1. Use a wrench or socket set to loosen the tensioner pulley.
2. Remove the serpentine belt from the A/C compressor pulley.
3. Take note of the belt routing for correct reinstallation later.



## STEP 6 REMOVE REFRIGERANT LINES

1. Using a wrench, disconnect the refrigerant lines attached to the A/C compressor.
2. Have a catch pan ready to collect any refrigerant oil that may spill out.

**Tip:** Be cautious when removing the lines, as residual refrigerant may be under pressure.



## STEP 7 REMOVE MOUNTING BOLTS

1. Use a socket set to remove the bolts securing the compressor to the engine block.
2. Carefully remove the compressor from its position.



## **STEP 8** **TRANSFER COMPONENTS (IF NECESSARY)**

1. If certain components (e.g., brackets or sensors) are not included with the new compressor, transfer them from the old compressor.



## **STEP 9** **INSTALL THE NEW A/C COMPRESSOR**

1. Place the new compressor in position.
2. Secure it with the mounting bolts.
3. Reattach the refrigerant lines, ensuring a tight seal.



## **STEP 10** **REINSTALL THE BELT**

1. Follow the belt routing diagram to reinstall the serpentine belt around the pulleys.





## **STEP 11** **RECONNECT THE BATTERY**

1. Reconnect the negative terminal of the battery.



## **STEP 12** **EVACUATE AND RECHARGE THE A/C SYSTEM**

1. Use a vacuum pump to evacuate air and moisture from the system.
2. Recharge the system with the appropriate amount of refrigerant and oil as per manufacturer guidelines using the manifold gauge set.

**Note:** Refer to the vehicle manual for correct refrigerant quantities.



## **STEP 13** **LEAK CHECK AND TEST**

1. Perform a leak check using a refrigerant leak detector.
2. Start the engine and turn on the A/C to confirm proper operation.
3. Check for any refrigerant leaks and ensure cold air is blowing from the vents.



## **CONGRATULATIONS!**

**YOU HAVE SUCCESSFULLY INSTALLED THE NEW A/C COMPRESSOR.  
BE SURE TO MONITOR THE SYSTEM FOR ANY LEAKS OR  
ABNORMAL OPERATION DURING THE FIRST FEW USES.**



# ***THANK YOU***

***A/C COMPRESSOR INSTALLATION MANUAL***