

1997 to 2004 Ford F-150 and Expedition with 4.6L and 5.4L Gas Engines Only

Installation Instructions:

Part No. 19511

PLEASE READ ALL OF THE INSTRUCTIONS BEFORE BEGINNING INSTALLATION OF THIS SYSTEM



FRONT VIEW 19511 Shown



REAR VIEW 19511 Shown

Tools recommended: Ratchet / socket set; 3/8 inch drive Large adjustable wrench Mini-screw driver, flat blade (supplied)

Notes:

1. Verify that your vehicle's cooling system is functioning correctly. It is important that the coolant is fresh and properly mixed per factory specifications. The radiator should be free of any corrision or blockage. Cooling system should be filled to factory specified level.

Equipment removal (Retain all bolts and nuts):

1. Remove the shroud bolts that secure the shroud to the left and right radiator brackets. Remove the shroud from the two clips that secure the lower half of the shroud to the radiator core.

2a. Loosen and remove the four bolts that attach the fan clutch assembly to the water pump flange. Remove the shroud, fan clutch and fan assembly. Replace the four bolts removed with the provided 8mm hex bolts and washers.

2b. If the vehicle is equipped with a thread-on fan clutch, remove it with a 1 1/2" wrench or large adjustable wrench. Note: It may be necessary to lightly tap the wrench with a small mallet in order to loosen the nut.

Cool-Pack Installation (Mechanical)

1. Carefully place the Cool-Pack assembly in position where the shroud was located being careful to lower the Cool-Pack unit's bottom tabs into the clips originally used to secure the radiator shroud.

2. Attach the Cool-Pack top bracket so that it is secure on the top ridge of the radiator core. The top bracket should sandwich over the top of the radiator core ridge when installed correctly.

3. Insert the sensor probe through the foam pad, adhesive side out. Remove the adhesive backing and insert into the radiator. The ideal probe location is three to five inches (3" to 5") below the top of the core in the center. Secure the probe wiring loom to prevent contact with the fan blades or any other moving parts.

Cool-Pack Installation (Electrical)

1. Disconnect the positive (red) battery cable. Remove the hex nut that tightens the terminal to the battery post.

2. Inspect and clean battery cable and terminal.

3a. Connect the blue Cool-Pack wire to the A/C Pressure Switch located on the dryer unit. **Note:** *If you are unsure or cannot locate the proper wire, it may be necessary to consult a repair manual or wiring schematic.* **Do not cut the A/C wire on the vehicle !** Use the provided wire-tap instead. If vehicle does not have air conditioning, cut the wire and install a wire cap to the end of the wire.

3b. If a manual turn-on switch is desired, and there is no A/C connected in the system, the blue wire can be energized from a manual toggle switch to turn the unit on.

3c. If the vehicle does not have air conditioning, and a manual turn-on switch is not desired, cut the blue wire and install the provided wire cap to the end of the wire.

4. Connect the fused power wire to the battery cable terminal and replace the hex nut. At this time you should also reconnect the battery cable to the battery.

5. Connect the black wire to body ground. Recommended attachment point is underneath the 10mm bolt that secures the upper radiator bracket to the radiator core support, the negative battery pigtail, or drill 1/8" hole in (metal) core support, frame, or fenderwell and use either of the sheet metal screws provided. To ensure a better electrical connection, scratch or scuff the paint surface where you will be attaching the wire.

Cool-Pack Adjustment:

After vehicle has reached normal operating temperature, the preset temperature (approx. 195°F) controller can be adjusted for the fans to turn on at any temperature between 170°F-220°F.
Turn adjustment screw clockwise (CW) for a higher turn-on temperature. Conversely, turn the screw counter clockwise (CCW) for a lower turn-on temperature. Note: Setting the turn-on temperature.



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