

# **COOL-PACK**

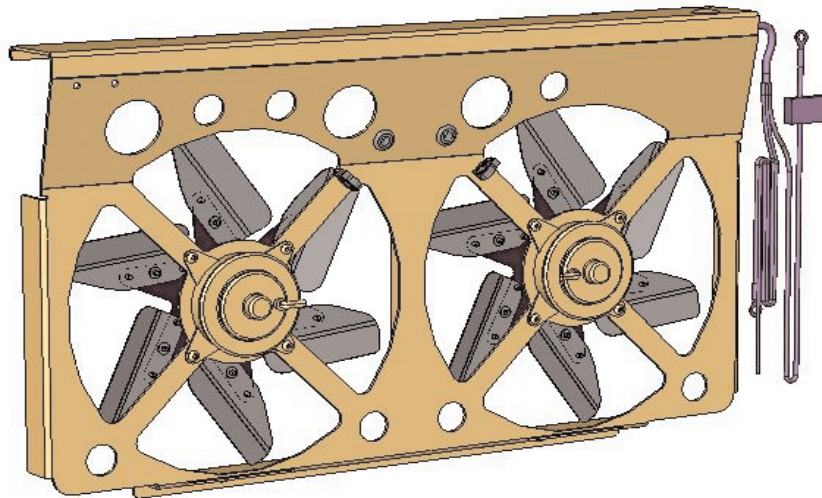
## **Radiator Cooling System**

1997 to 2002 Ford F-150 and Expedition  
with 4.6L and 5.4L Gas Engines Only

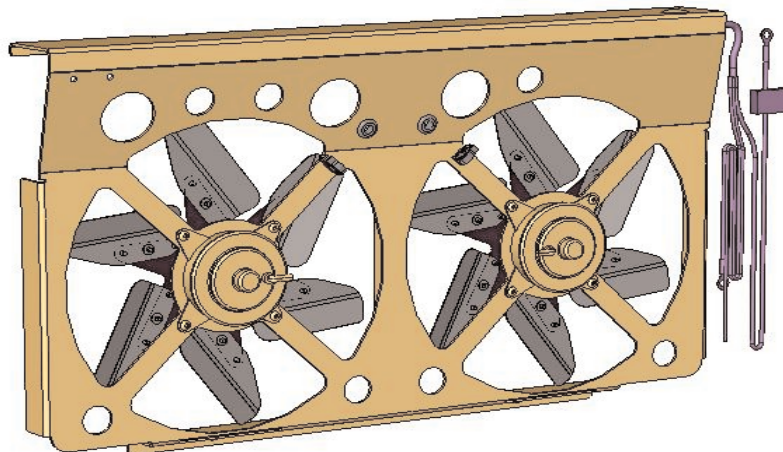
**Installation Instructions:**

**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 corrosion or blockage. Cooling system should be filled to factory specified level.
2. Verify that all items referenced on the Component List (included in packet) are present.

**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.
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. Secure the bottom bracket of the Cool-Pack to the radiator core using two Allen bolts, four washers and locknuts provided in the hardware packet.
4. 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.
3. 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.
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.

## **Cool-Pack Adjustment:**

1. 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.
2. 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 to lower than 185°F may affect vehicle emission control compliance.*

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