COOL-PACK

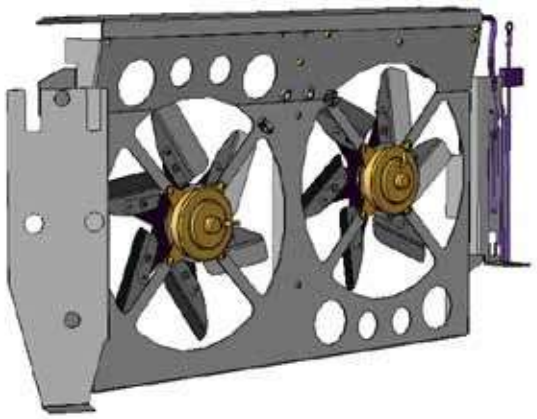
Radiator Cooling System

1994-2002 Dodge Ram V6, V8

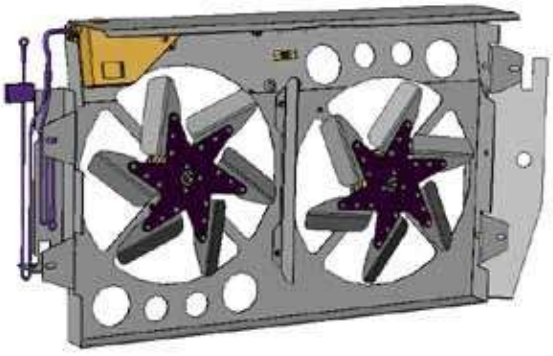
Installation Instructions:

Part No. 19520

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



FRONT VIEW 19520 Shown



REAR VIEW 19520 Shown

Tools recommended:

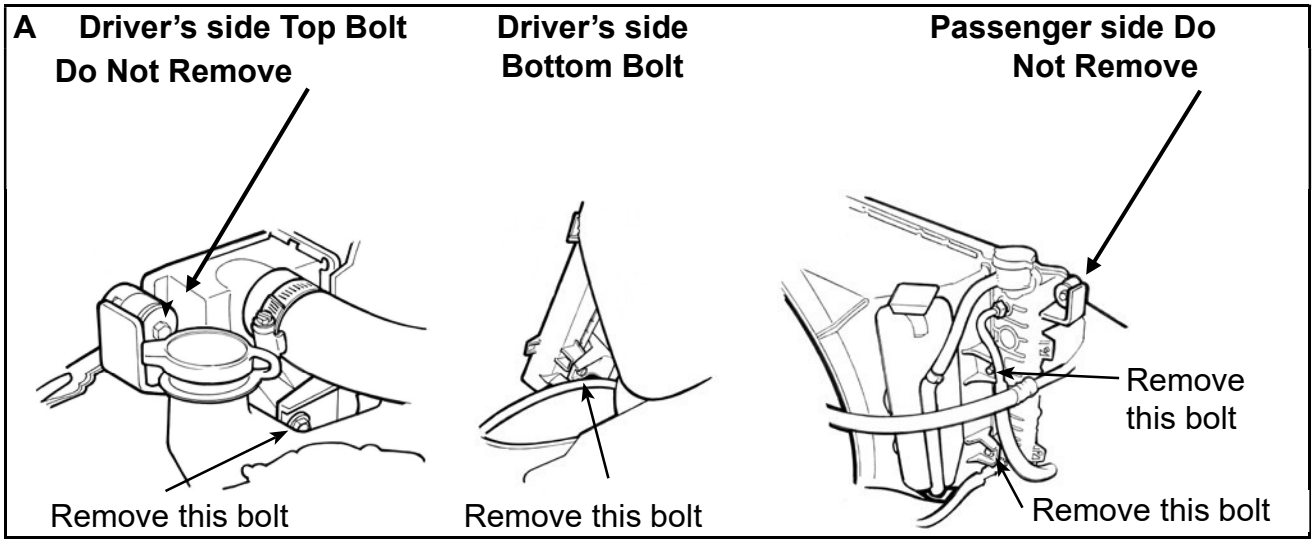
Ratchet / socket set; 3/8 inch drive, various extension
Sockets, 8mm, 10mm, 12mm
36mm Fan removal wrench
Wrench, 10mm box
Wire cutters, pliers, utility knife Mini screw
driver, flat blade (supplied)

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.

Equipment removal (Retain all bolts and nuts):

1. Remove the windshield washer reservoir and the coolant overflow reservoir.
2. Using a large crescent wrench or the special 36 mm fan tool loosen and remove the fan and fan clutch assembly from the water pump pulley. Turn the fan clutch nut **counterclockwise** to remove.
3. Remove the four radiator shroud bolts, retain bolts, see illustration A.

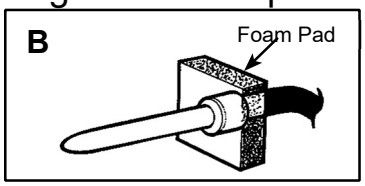


4. Tip fan shroud back towards the engine and carefully lift fan clutch assembly up and out through top of engine compartment.
5. Remove fan shroud by lifting up and out through top of engine compartment.

Cool-Pack Installation (Mechanical):

1. Lower the Cool-Pack Assembly into position. Tip back toward engine for easy access to radiator core during the following procedure.

2. Insert the sensor probe through the foam pad, aligning the large end of the probe in the foam pad, adhesive side out, see illustration B. The narrow part of the probe should be entirely exposed. Remove the adhesive backing and insert probe into 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. Note: It is recommended to install the probe before finalizing the Cool-Pack mechanical installation. Access is best through one of the vent holes.



3. Re-install the four (4) bolts retained from step 3 of the removal procedure to attach the Cool-Pack assembly to the radiator support. Finger-tighten only.

4. With the probe securely in place, tighten all bolts until snug.

5. Re-install and fill coolant overflow reservoir and the windshield washer reservoir.

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 wire to the A/C switch. 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 wiretap instead.

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.

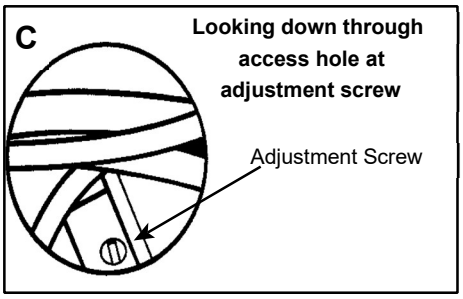
4. Connect the fused power wire to the battery cable terminal and replace the hex nut. At this time, you should also reconnect the battery cable to the battery.

5. Connect the black (-) wire to body ground. Recommended attachment point is on front crossmember next to coolant reservoir bottle. Alternate locations are underneath an upper radiator core support bolt, 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:

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 counterclockwise (CCW) for a lower turn-on temperature.



3. For units manufactured in 2022 or later, the adjustment is reverse! Turn the adjustment screw counterclockwise (CCW) for a higher turn on temperature. Conversely, turn the screw clockwise (CW) for a lower turn on temperature.

Note: Setting the turn-on temperature *to lower than 185˚F may affect vehicle emission control compliance.*

****The small blue adjustment screw can be found by following the power wire to where it enters the potted switch, next to the relay.****