

Koolzap®

Steps to Change a Cooling Fan Assembly

1. Disconnect the negative battery cable.
2. Inspect the cooling fan and take note of any wires, hoses or air conditioning lines that may hamper fan removal. Also at this time, decide whether it is necessary to remove the fan along with the radiator or not.
3. Position aside all wires, hoses and air conditioning lines for fan removal. It may not always be possible to create enough clearance for fan removal by simply moving these obstructions aside; often they must be disconnected. If any cooling system lines must be disconnected, drain and recycle the engine coolant. If any of the air conditioning lines must be disconnected, the air conditioning system will need to be discharged and evacuated by an MVAC-trained technician using an approved recovery machine.
4. Disengage the cooling fan wiring harness connector.
5. If the fan can be removed without the radiator, perform the following:
 - A. Loosen the mounting fasteners. Usually there are 2 nuts or bolts along the top edge of the cooling fan shroud and either 2 retaining clips or bolts along the bottom edge.
 - B. Carefully lift the fan up and out of the engine compartment, making sure that no wires or hoses get hung up on it.
6. If it is necessary to remove the radiator for fan removal, perform the following:
 - A. Disconnect all cooling system hoses from it after draining the cooling system.
 - B. Locate the radiator mounting fasteners (usually 2 or more nuts or bolts along the top and, possibly 2 along the bottom).
 - C. Lift the radiator and cooling fan up and out of the engine compartment together.
 - D. Separate the cooling fan from the radiator by removing the attaching fasteners.

To install:

1. If applicable, install the cooling fan on the radiator and/or condenser.
2. Install the cooling fan and shroud assembly (also the radiator if necessary). Tighten the fan shroud mounting bolts.
3. Reattach all wires, hoses and air conditioning lines as applicable. If the air conditioning lines were detached, the system must be evacuated and recharged by an MVAC-trained technician.
4. If drained, refill and bleed the cooling system.
5. Reattach the cooling fan electrical harness connector.
6. Connect the negative battery cable.
7. Start the engine and check for leaks.
8. Verify the operation of the cooling fan(s).

