X-Change Fast Flush

Lujan USA SNIPER

Quick Reference

PERFORMING COOLANT X-CHANGE

WARNING !!!
COOLING SYSTEM MAY BE HOT AND UNDER PRESSURE, USE EXTREME CAUTION!!!

1) CHECK COOLANT LEVELS IN X-CHANGE
Make sure there is enough room in the waste (lower) tank for the amount of coolant being replaced from the vehicle. Pour enough coolant into the new (upper) coolant tank to complete the fluid exchange. You should provide slightly more coolant than the total capacity of the cooling system.

IMPORTANT NOTE: Coolant should be pre-mix, 50% antifreeze & 50% water.

Optional fill method for bulk coolant: Insert suction wand into bulk coolant source and remove pump outlet hose from used coolant tank and insert into new coolant tank. Turn on pump switch. The Fast Flush will pump coolant from bulk container into new coolant tank. Closely monitor this process to avoid overfilling the new coolant tank. Turn off pump switch when new coolant tank is filled to desired level.

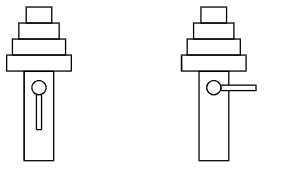
2) REMOVE RADIATOR CAP

CAUTION: NEVER OPEN RADIATOR CAP WITH PRESSURE IN THE COOLING SYSTEM!! RADIATOR AND COOLANT MAY BE HOT!!!

Insert suction wand into top of radiator and turn on pump switch. Reduce level of coolant below upper radiator hose. Turn off pump. Drain overfill reservoir using the same procedure.

3) DISCONNECT UPPER RADIATOR HOSE

4) CONNECT FILL HOSE TO VEHICLE
Using hose clamp, connect black "fill" hose to radiator with valve in the off position (use appropriate flex hose adapter and hose clamp).



On position **Off position**

5) CONNECT DRAIN HOSE
Connect white "drain" hose to upper radiator hose with hose clamp and valve in the off position.

6) REPLACE RADIATOR CAP, START ENGINE, AND TURN VEHICLE HEATER ON IN HIGH POSITION

7) OPEN VALVES
Immediately open the white and black hose valves to the on position. When the thermostat opens, you will be flushing out old coolant and X-Changing the fluid from the entire cooling system (radiator, heater core, hoses, & block).

CAUTION: Some vehicles such as the GM Quad 4 have a small hose connecting the overfill tank to the lower radiator hose. On these vehicles it is necessary to clamp this small hose with pinching pliers to properly X-Change the coolant.

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8) THE CYCLE IS COMPLETE WHEN TOP TANK IS ALMOST EMPTY

CAUTION: Do not completely drain the top tank, this will allow air to enter the cooling system.

9) CLOSE VALVES
Close the black hose valve and immediately shut engine off. Close the white valve.

Optional: You can use the suction wand to lower the coolant level below the upper radiator hose by removing radiator cap, inserting wand into radiator, and turning on pump switch. This will prevent any antifreeze from spilling when removing the hose.

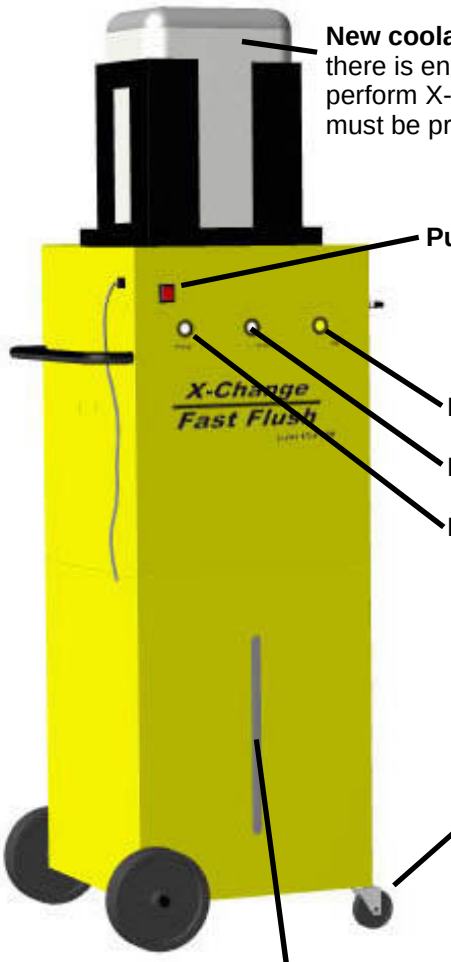
USE CAUTION: The cooling system may be hot!!!

10) DISCONNECT UNIT FROM VEHICLE

11) RECONNECT TOP RADIATOR HOSE

12) COMPLETE FILLING OF COOLING SYSTEM
Top-off radiator and overflow reservoir by dispensing coolant from the black hose. Open valve in black hose and fill radiator and overfill reservoir using coolant from the hose (be sure there is adequate coolant in the top tank).

X-CHANGE IS COMPLETE



New coolant tank. Be sure there is enough coolant to perform X-Change. Coolant must be pre-mix 05-50.

Pump on/off switch

Fill hose

Drain hose

Pump hose

Locking wheel

Used coolant tank. Be sure there is enough room in the tank for the amount of coolant you are removing from the vehicle.

TRANSFERRING USED COOLANT INTO BULK STORAGE CONTAINER
Insert suction wand into used coolant container. Remove pump output hose from used coolant container and insert it into bulk storage container. Turn on pump switch. Turn off switch when there is approximately 2" of the suction wand still submerged in the used coolant.

CAUTION: Do not run the pump dry by removing too much coolant from used coolant container. This may damage the pump impeller.

Used coolant should be recycled or disposed of according to government regulations.

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