

Transmission

Cooler Flushing

⚠ WARNING To prevent injury to face and eyes, always wear safety glasses or a face shield when using the transmission flusher.

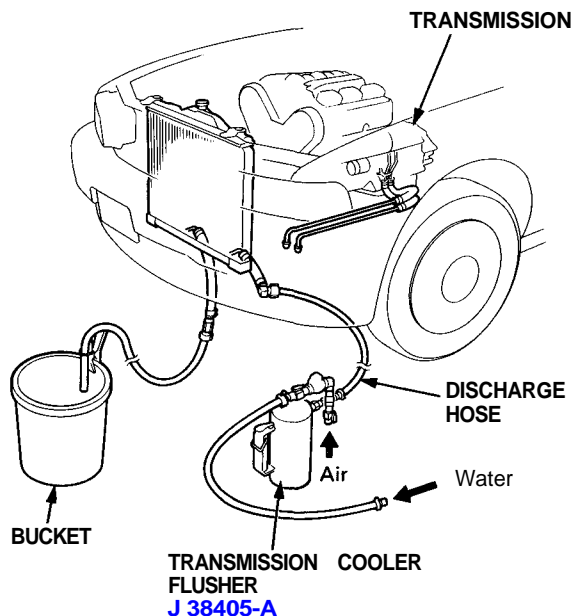
NOTE: This procedure should be performed before reinstalling the transmission.

1. Check tool and hoses for wear or cracks before using. If wear or cracks are found, replace the hoses before using.
2. Using the measuring cup, fill the tank with 21 ounces (approximately 2/3 full) of biodegradable flushing fluid (J35944-20). Do not substitute with any other fluid. Follow the handling procedure on the fluid container.
3. Secure the flusher filler cap and pressurize the tank with compress air to between 560–845 kPa (5.6–8.45 kg/cm², 80–120 psi).

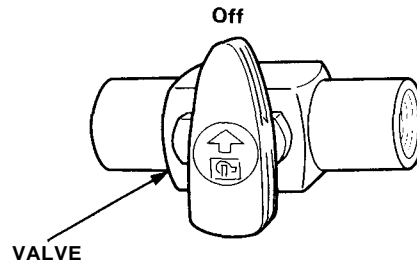
NOTE: The air line should be equipped with a water trap to ensure a dry air system.

4. Hang the tool under the vehicle.
5. Attach the discharge hose of the tank to the return line of the transmission cooler using a clamp.
6. Connect the drain hose to the inlet line of the transmission cooler using a clamp.

IMPORTANT: Securely clamp the opposite end of the drain hose to a bucket or floor drain.



7. With the water and air valves off, attach the water and air supplies to the flusher. (Hot water if available.)



8. Turn on the flusher water valve so water will flow through the oil cooler for 10 seconds.

NOTE: If water does not flow through the oil cooler it is completely plugged, cannot be flushed, and must be replaced.

9. Depress the trigger to mix the flushing fluid into the water flow. Use the wire clip to hold the trigger down.
10. While flushing with the water and flushing fluid for 2 minutes, turn the air valve on for 5 seconds every 15–20 seconds to create a surging action.
AIR PRESSURE:
MAX 845 kPa (8.45 kg/cm², 120 psi)
11. Turn the water valve off. Release the trigger, then reverse the hoses to the cooler so you can flush in the opposite direction. Repeat steps 8 through 10.
12. Release the trigger and allow water only to rinse the cooler with water for one minute.
13. Turn the water valve off and turn off the water supply.
14. Turn the air valve on to dry the system out with air for two full minutes or until no moisture is visible leaving the drain hose.

CAUTION: Residual moisture in the oil cooler or pipes can damage the transmission.

15. Remove the flusher from the cooler line. Attach the drain hose to an oil container.
16. Install the transmission and leave the drain hose attached to the cooler line.



17. Make sure the transmission is in **P** position. Then fill the transmission with ATF and run the engine for 30 seconds or until approximately 0.95ℓ (1.0 us qt., 0.8 Imp qt.) is discharged.
18. Remove the drain hose and reconnect the cooler return hose to the transmission.
19. Refill the transmission with ATF to proper level.

TOOL MAINTENANCE

1. Empty and rinse after each use. Fill the can with water and pressurize the can. Flush the discharge line to ensure that the unit is clean.
2. If discharge liquid does not foam, the orifice may be blocked.
3. To clean, remove the coupling nut.
4. Remove the in-line filter from the discharge side and clean if necessary.
5. The fluid orifice is located behind the filter. Clean it with the pick stored in the bottom of the tank handle or blow it clean with air. Securely reassemble all parts.

