

## ENGINE COOLANT LEVEL INSPECTION

### TITLE

## ENGINE COOLANT REPLACEMENT

### CONTENT

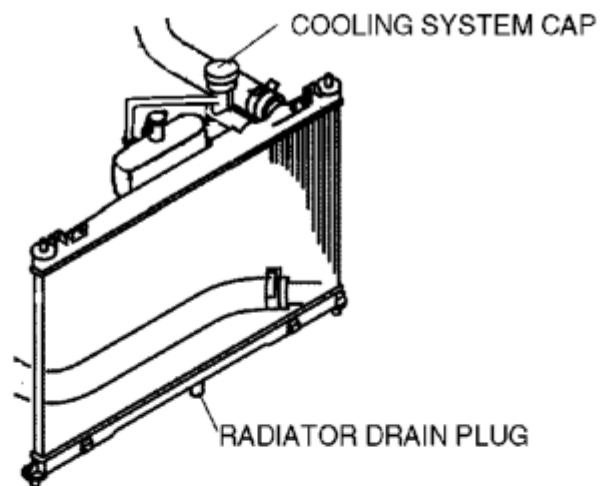
#### ENGINE COOLANT REPLACEMENT

#### WARNING:

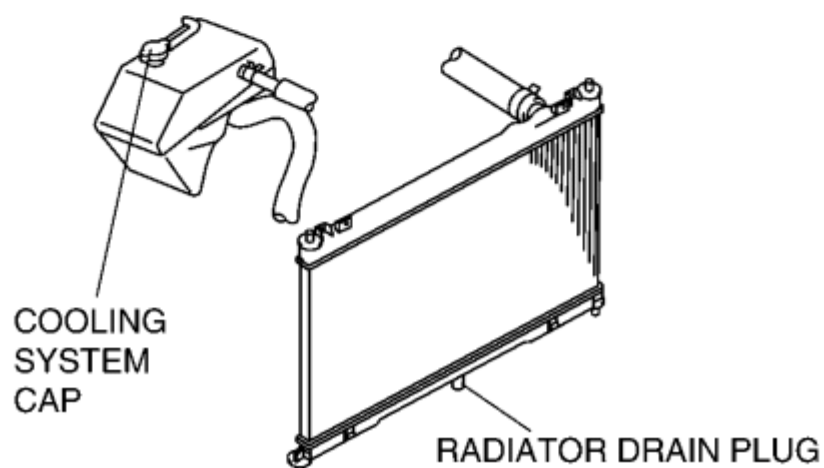
- Drain the engine coolant when the engine is cold, otherwise it may burn you and cause serious injury.

1. Remove the cooling system cap and the radiator drain plug.

**L3**



**AJ**



2. Drain the coolant into a container.

3. Flush the cooling system with water until all traces of color are gone.

4. Let the system drain completely.

5. Tighten the radiator drain plug.

CAUTION:

- The engine has aluminum parts that can be damaged by alcohol or methanol antifreeze. Do not use alcohol or methanol in the cooling system. Use only ethylene-glycol-based coolant.
- Use only soft (demineralized) water in the coolant mixture. Water that contains minerals will reduce the coolant's effectiveness.
- Engine coolant damages paint. If engine coolant does get on a painted surface, rinse it off quickly.

6. Referring to the following chart, select proper volume percentage of the water and coolant. Antifreeze solution mixture percentage

Coolant protection	Volume percentage (%)		Gravity at 20 °C {68 °F}
	Water	Coolant	
Above -16 °C {3 °F}	65	35	1.054
Above -26 °C {-15 °F}	55	45	1.066
Above -40 °C {-40 °F}	45	55	1.078

7. Slowly pour the coolant into the radiator up to the coolant filler port. (L3 engine model)

8. Fill the engine coolant into the coolant reservoir tank up to the F mark on the coolant reservoir tank.

9. Tighten the cooling system cap.

CAUTION:

- If the coolant temperature becomes too high, stop the engine to prevent it from overheating.

10. Start the engine and idle it until the cooling fan operates.
11. After engine warms up, perform the following steps.
  - a. Run the engine at 2,500 rpm for 5 min.
  - b. Run the engine at 4,500 rpm for 5 sec, then idle. Repeat 5 times.
  - c. Idle the engine for 1 min.
12. Stop the engine and wait until it is cool.
13. Inspect the coolant level.
  - If it is low, repeat Steps 7—12 (L3 engine model), Steps 8—12 (AJ engine model).
14. Install the cooling system cap.
15. Inspect for coolant leakage.