RADIATOR

EG7AQ-02

RADIATOR CLEANING

Using water or a steam cleaner, remove any mud and dirt from the radiator core.

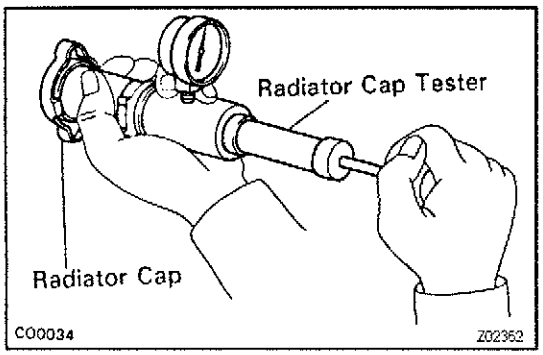
NOTICE: If using a high pressure type cleaner, be careful not to deform the fins of the radiator core. (i.e. Maintain a distance between the cleaner nozzle and radiator core.)

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RADIATOR INSPECTION

1. **REMOVE RADIATOR CAP**

CAUTION: To avoid the danger of being burned, do not remove the radiator cap while the engine and radiator are still hot, as fluid and steam can be blown out under pressure.



2. **INSPECT RADIATOR CAP**

NOTICE:

- **If the radiator cap has contaminations, always rinse it with water.**
- **Before using a radiator cap tester, wet the relief valve and pressure valve with engine coolant or water.**

Using a radiator cap tester, pump the tester and measure the relief valve opening pressure.

Standard opening pressure:

74 – 103 kPa

(0.75 – 1.05 kgf/cm², 10.7 – 14.9 psi)

Minimum opening pressure:

59 kPa (0.6 kgf/cm², 8.5 psi)

HINT: Use the tester's maximum reading as the opening pressure.

If the opening pressure is less than minimum, replace the radiator cap.

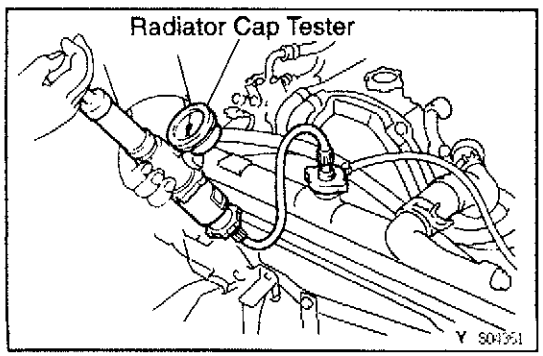
3. **INSPECT COOLING SYSTEM FOR LEAKS**

(a) Fill the radiator and engine with coolant, and attach a radiator cap tester to the water outlet.

(b) Warm up the engine.

(c) Pump it to 118 kPa (1.2 kgf/cm², 17.1 psi), and check that the pressure does not drop.

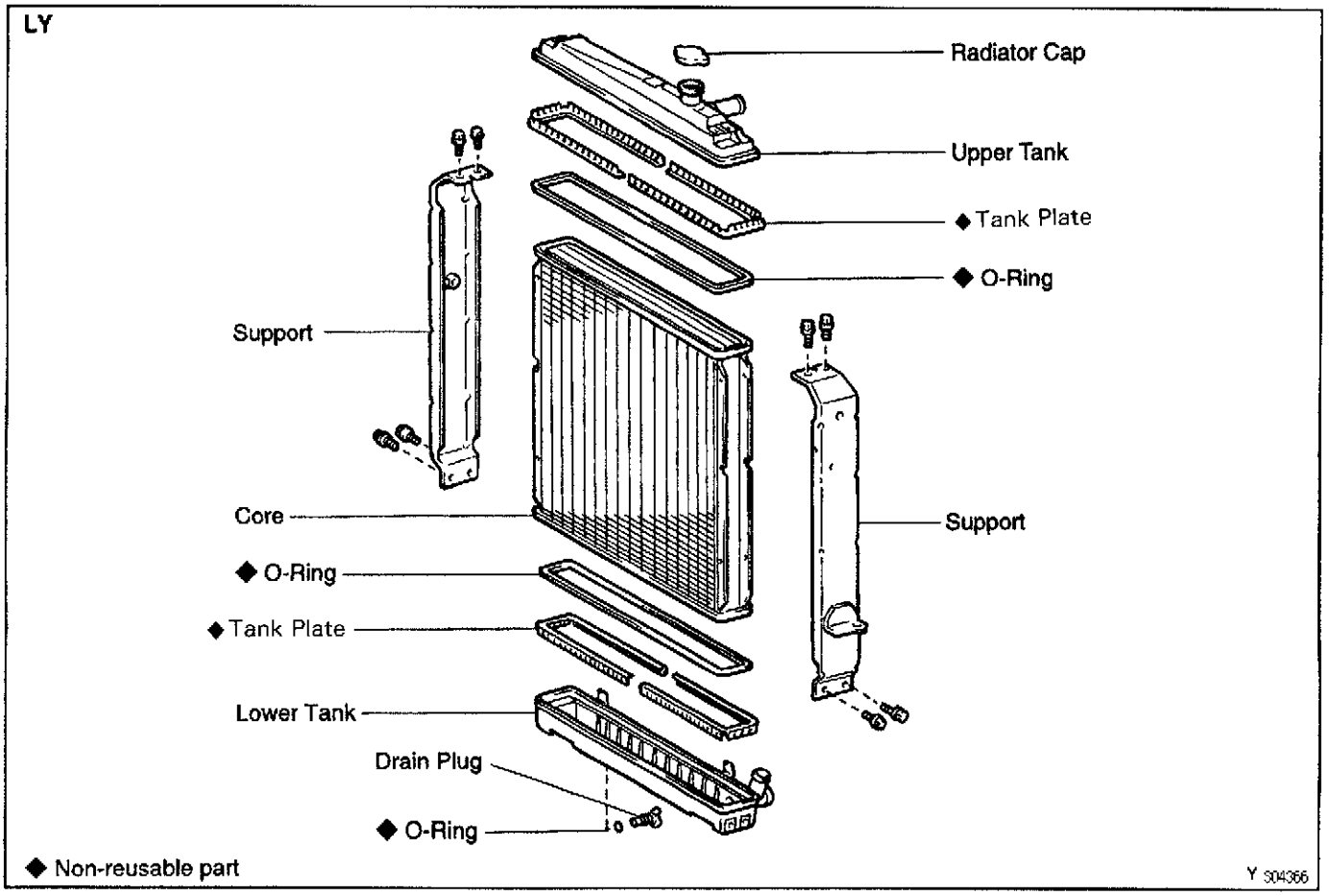
If the pressure drops, check the hoses, radiator or water pump for leaks. If no external leaks are found, check the heater core, cylinder block and head.

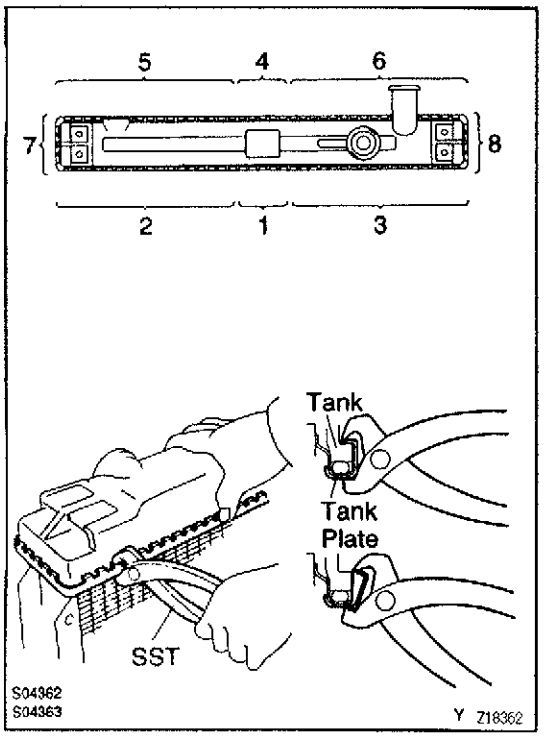


4. **REINSTALL RADIATOR CAP**

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COMPONENTS FOR DISASSEMBLY AND ASSEMBLY

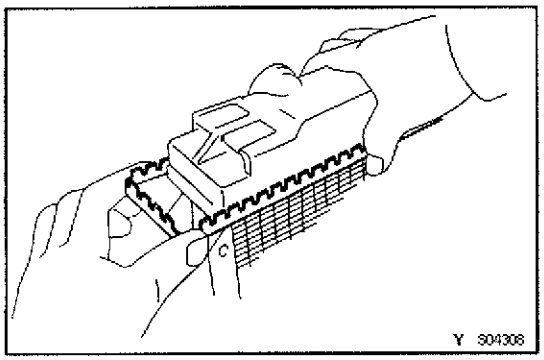




RADIATOR DISASSEMBLY

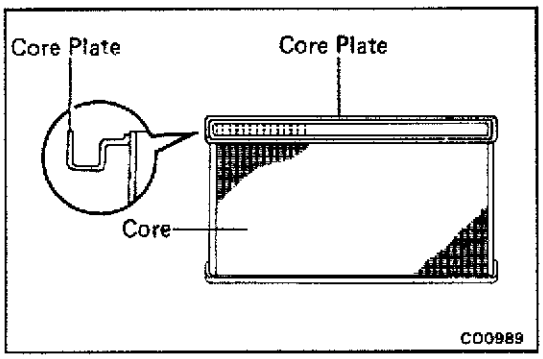
1. **REMOVE RADIATOR CAP OR INSULATORS**
2. **LJ and LY:**
   REMOVE SUPPORTS
3. **REMOVE DRAIN PLUG**
4. **LY:**
   REMOVE TANK PLATE

(a) Raise the claws of the tank plates with SST in the numerical order shown in the illustration.
SST 09230–00010
NOTICE: Be careful not to damage the core plate.



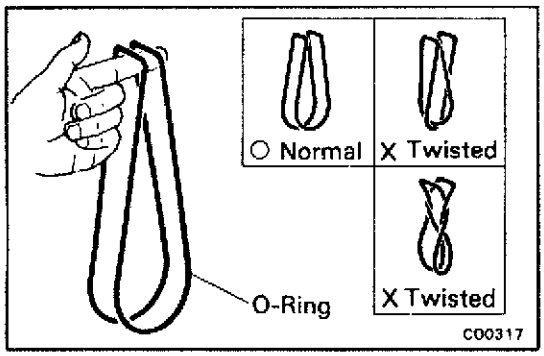
(b) Pull the tank plates outward.

5. LY:
REMOVE TANK
(a) Pull the tank upward.
(b) Remove the O–ring.

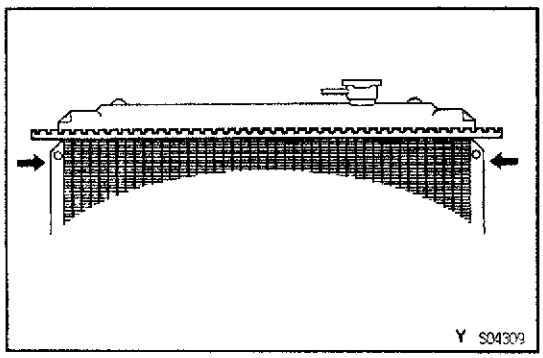


RADIATOR ASSEMBLY

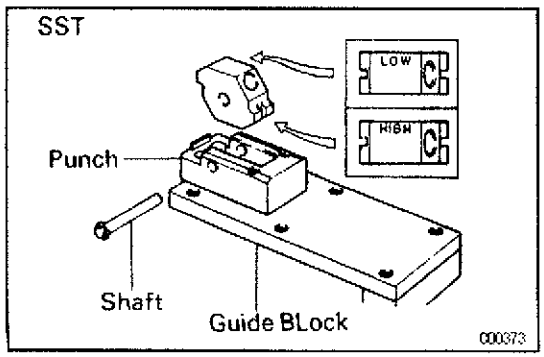
1. LY:
CHECK CORE PLATE FOR DAMAGE
HINT:
- If the sides of the core plate groove are deformed, reassembly of the tank will be impossible. Therefore, first correct any deformation with pliers.
- Water leakage will result if the bottom of the core plate groove is damaged or dented. Therefore, repair or replace if necessary.



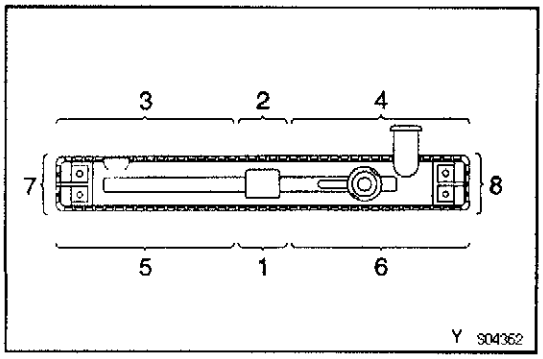
2. LY:
INSTALL TANK
Install a new O–ring and the tank.
HINT:
- Clean the tank and core plate.
- Take out any twists.



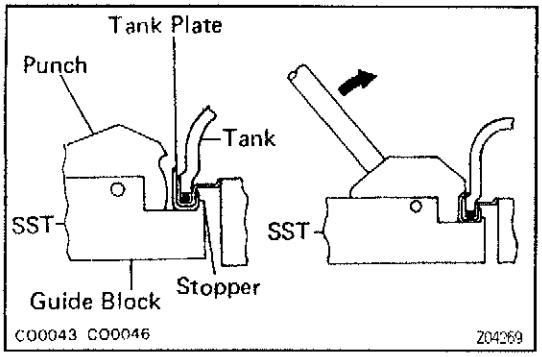
3. LY:
INSTALL TANK PLATE
Insert new tank plates from both ends in the direction of the arrows. Firmly set the tank plates in the core plate.



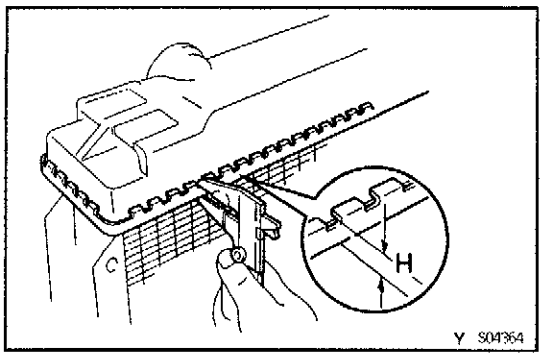
4. LY:
STAKE CLAWS OF TANK PLATES
(a) Set the punch of SST to "LOW".
SST 09230–00010



(b) Stake the claws of the tank plates with SST in the numerical order shown in the illustration.



NOTICE: If the bottom of the core plate is staked with the SST on the guide block stopper, it may result in water leakage.

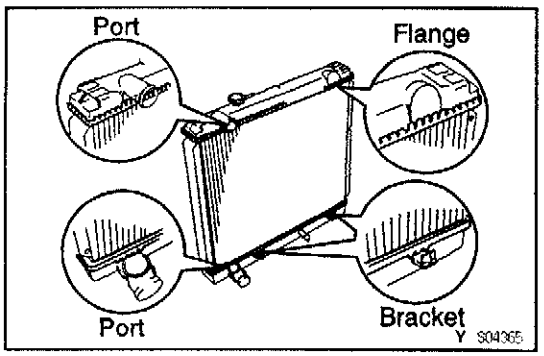


HINT:

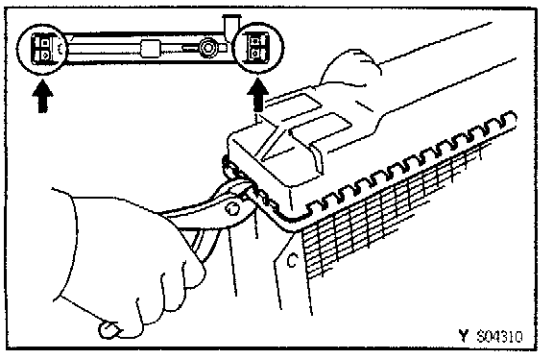
- Stake with just enough pressure to leave a mark on the claw. The staked plate height (H) should be as follows:

Plate height (H):

8.4 — 8.8 mm (0.331 — 0.346 in.)



- Do not stake the areas protruding around the ports, flange and brackets.



- The points shown in the illustration cannot be staked with the SST. Use pliers and be careful not to damage the core plates.

5. INSTALL DRAIN PLUG