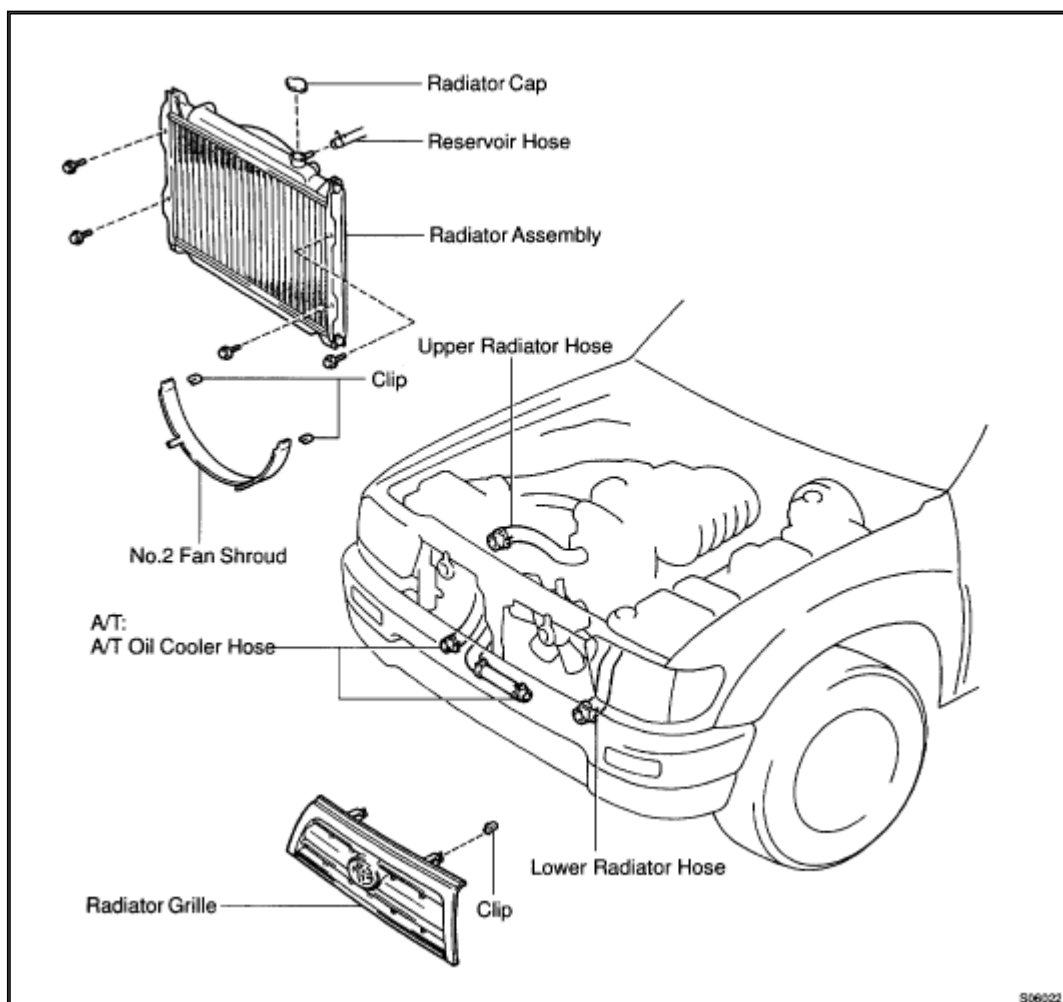


**2002 Toyota Truck 4 Runner Limited 4WD V6-3.4L (5VZ-FE)**

Vehicle Level → [Engine, Cooling and Exhaust](#) → [Cooling System](#) → [Radiator](#) → [Service and Repair](#)  
→ [Removal and Installation](#) ←

**Removal and Installation**

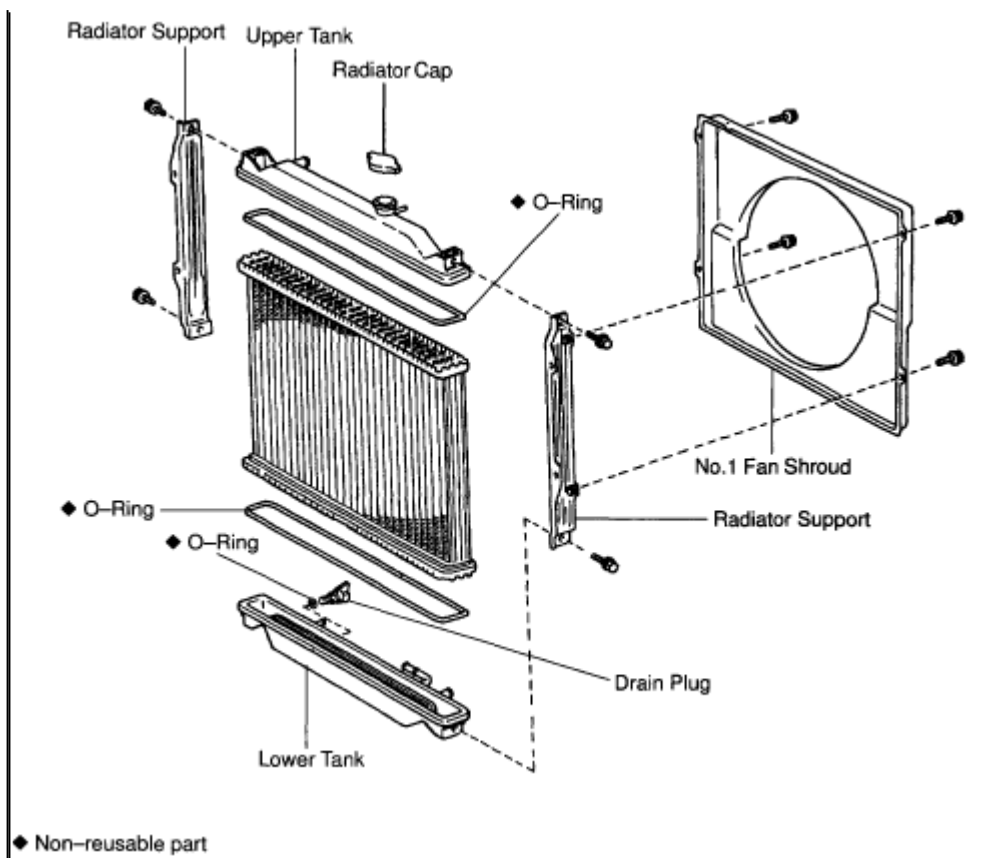
[Notes](#)



Zoom

Sized for Print



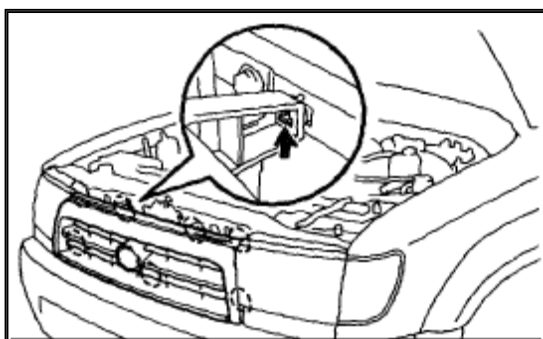


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## REMOVAL

### 1. DRAIN ENGINE COOLANT



Zoom

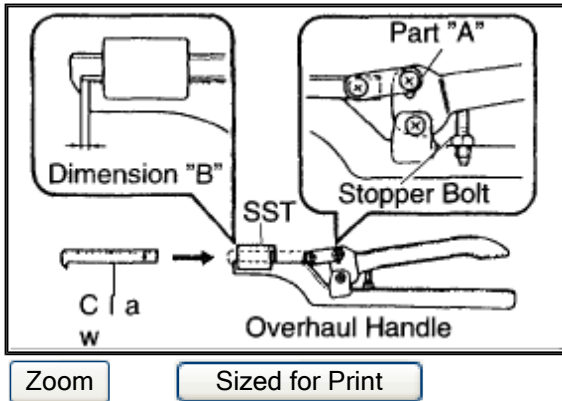
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2. REMOVE RADIATOR GRILLE Remove the 7 clips and radiator grille.
3. DISCONNECT UPPER RADIATOR HOSE
4. DISCONNECT RADIATOR RESERVOIR HOSE
5. DISCONNECT LOWER RADIATOR HOSE
6. REMOVE RADIATOR NO.2 FAN SHROUD

7. A/T: DISCONNECT [OIL COOLER](#) HOSES
8. REMOVE RADIATOR Remove the 4 bolts and the radiator.

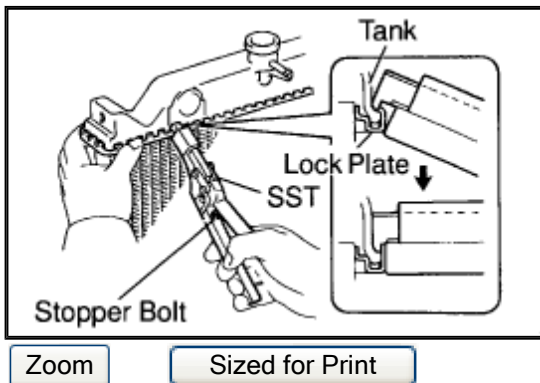
### DISASSEMBLY

1. REMOVE NO.1 FAN SHROUD Remove the 4 bolts and No.1 fan shroud.
2. REMOVE RADIATOR SUPPORTS
3. REMOVE DRAIN PLUG



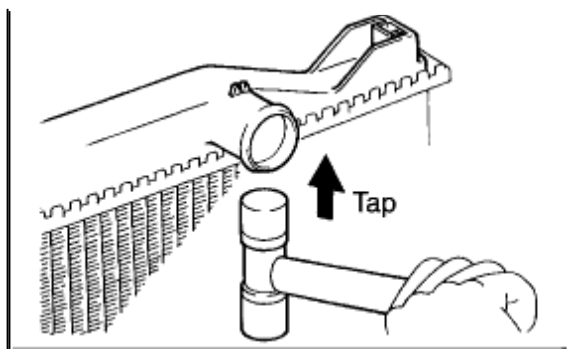
4. ASSEMBLE SST SST 09230-01010

- a. Install the claw to the overhaul handle, inserting it in the hole in part "A" as shown in the diagram.
- b. While gripping the handle, adjust the stopper bolt so that dimension "B" shown in the diagram is **0.2 - 0.3 mm (0.008 - 0.012 inch)**. **NOTICE:** If this adjustment is not done, the claw may be damaged.



5. UNCAULK LOCK PLATES Using SST to release the caulking, squeeze the handle until stopped by the stopper bolt. SST 09230-01010





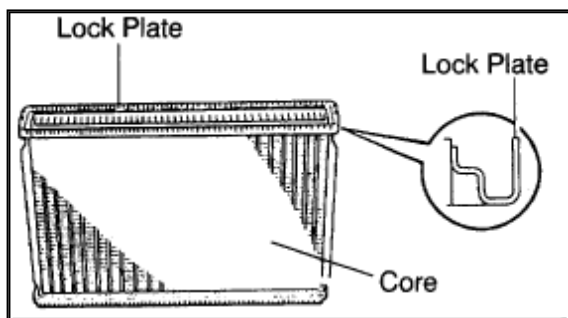
Zoom

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## 6. REMOVE TANKS AND O-RINGS

- a. Lightly tap the radiator port (inlet or outlet) with a soft faced hammer, and remove the tank.
- b. Remove the O-ring.

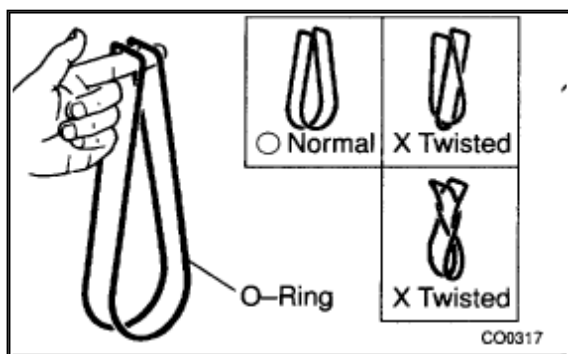
## REASSEMBLY



Zoom

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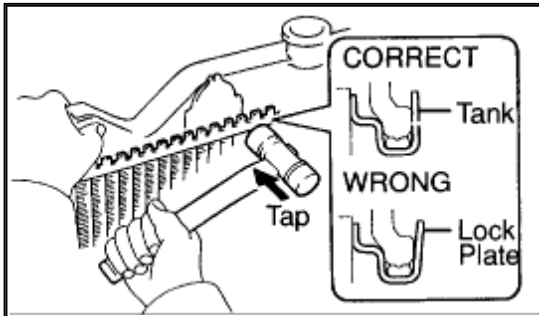
1. **INSPECT LOCK PLATE** Inspect the lock plate for damage. **HINT:** If the sides of the lock plate groove are deformed, reassembly of the tank will be impossible. **NOTICE:** The radiator can only be recalked 2 times. After the 2nd time, the radiator core must be replaced.
2. **INSTALL NEW O-RINGS AND TANKS**



Zoom

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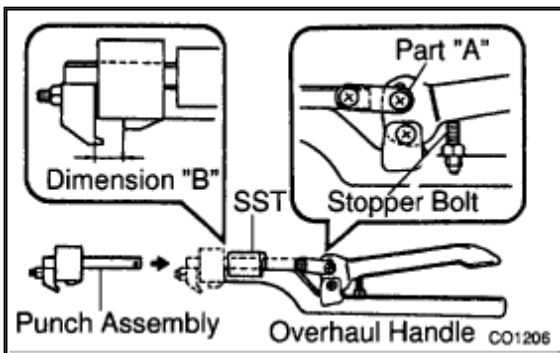
- a. After checking that there are no foreign objects in the lock plate groove, install the new O-ring without twisting it. **HINT:** When cleaning the lock plate groove, lightly rub it with sand paper without scratching it.



Zoom

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- b. Install the tank without damaging the O-ring.
- c. Tap the lock plate with a soft-faced hammer so that there is no gap between it and the tank.



Zoom

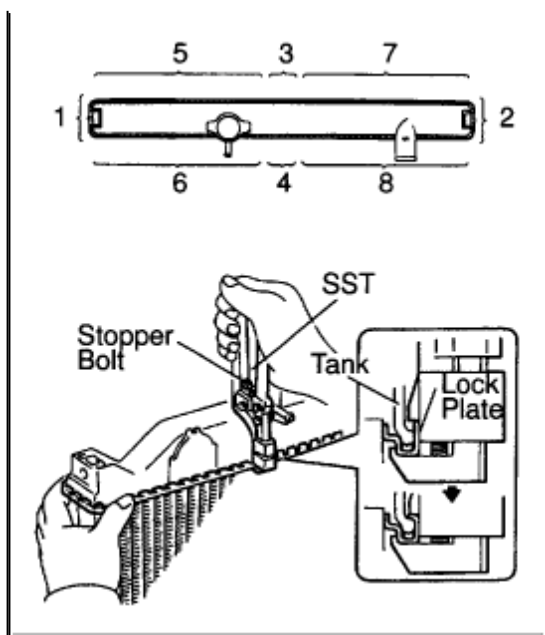
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3. ASSEMBLE SST 09230-01010

- a. Install the punch assembly to the overhaul handle, inserting it in the hole in part "A" as shown in the illustration.
- b. While gripping the handle, adjust the stopper bolt so that dimension "B" shown in the diagram. Dimension "B": **8.4 mm (0.34 inch)**

4. CAULK LOCK PLATE

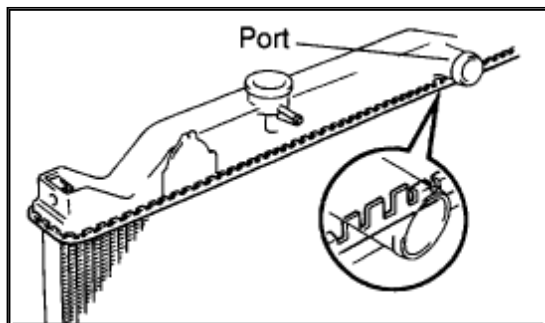




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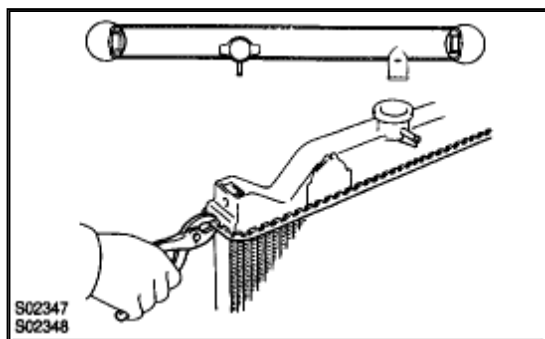
- a. Lightly press SST against the lock plate in the order shown in the illustration. After repeating this a few times, fully caulk the lock plate by squeezing the handle until stopped by the stopper bolt. SST 09230-01010 **HINT:**



Zoom

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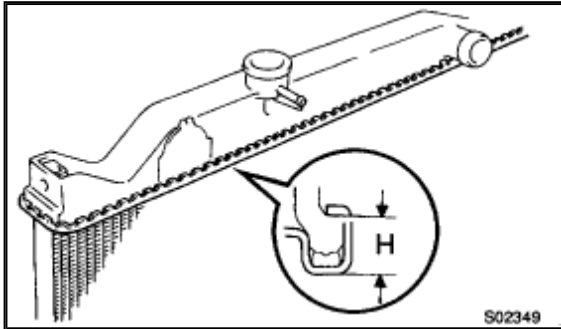
- Do not stake the areas protruding around the ports.



Zoom

Sized for Print

- The points shown in the rib sides near here cannot be staked with SST. Use pliers or similar object and be careful not to damage the core plates.



Zoom

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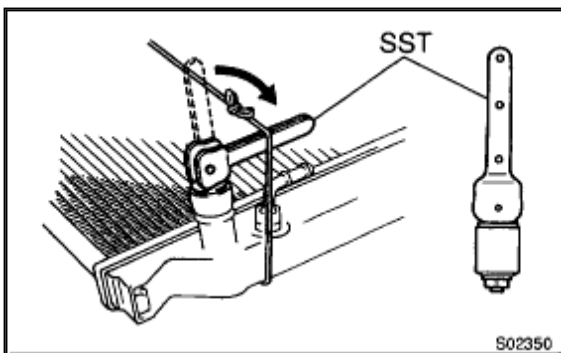
- Check the lock plate height (H) after completing the caulking. Plate height (H): **7.4 - 7.8 mm (0.2959 - 0.3119 inch)** If not within the specified height, adjust the stopper bolt of the handle again and caulk again.

#### 5. PAINT LOCK PLATES

#### 6. INSTALL DRAIN PLUG TO RADIATOR

- Install a new O-ring to the drain plug.
- Apply soapy water to the O-ring.
- Install the drain plug.

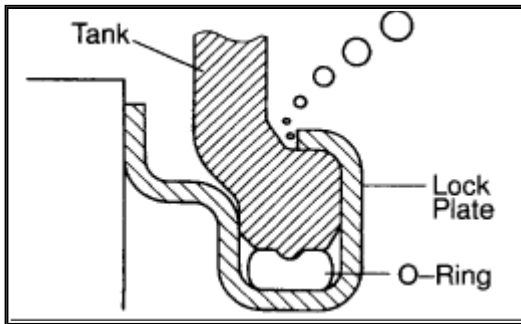
#### 7. CHECK FOR WATER LEAKS



Zoom

Sized for Print

- Using SST, plug the inlet and outlet pipes of the radiator. SST 09230-01010
- Using a [radiator cap](#) tester, apply pressure to the radiator. Test pressure: **177 kPa (1.8 kgf/cm<sup>2</sup>, 26 psi)**

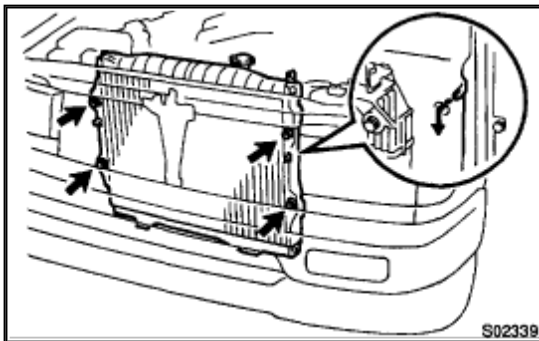


Zoom

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- c. Check for water leaks. **HINT:** On radiators with resin tanks, there is a clearance between the core plate and tank where a minute amount of air will remain, giving the appearance of an air leak when the radiator is submerged in water. Therefore, before performing the water leak test, first swirl the radiator around in the water until all air bubbles disappear.
8. INSTALL SUPPORTS Torque: **12.7 Nm (130 kgf-cm, 9 ft. lbs.)**
  9. INSTALL NO.1 FAN SHROUD

## INSTALLATION



Zoom

Sized for Print

1. INSTALL RADIATOR Install the radiator with 4 bolts. Torque: **12 Nm (120 kgf-cm, 8.7 ft. lbs.)** **HINT:** Insert the tabs of the radiator support through the radiator service holes.
2. A/T: CONNECT [OIL COOLER](#) HOSES
3. INSTALL RADIATOR NO.2 FAN SHROUD
4. CONNECT LOWER RADIATOR HOSE
5. CONNECT RADIATOR RESERVOIR HOSE
6. CONNECT UPPER RADIATOR HOSE
7. INSTALL RADIATOR GRILLE Install the radiator grille with 7 clips.
8. FILL WITH ENGINE COOLANT
9. START ENGINE AND CHECK FOR COOLANT LEAKS

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