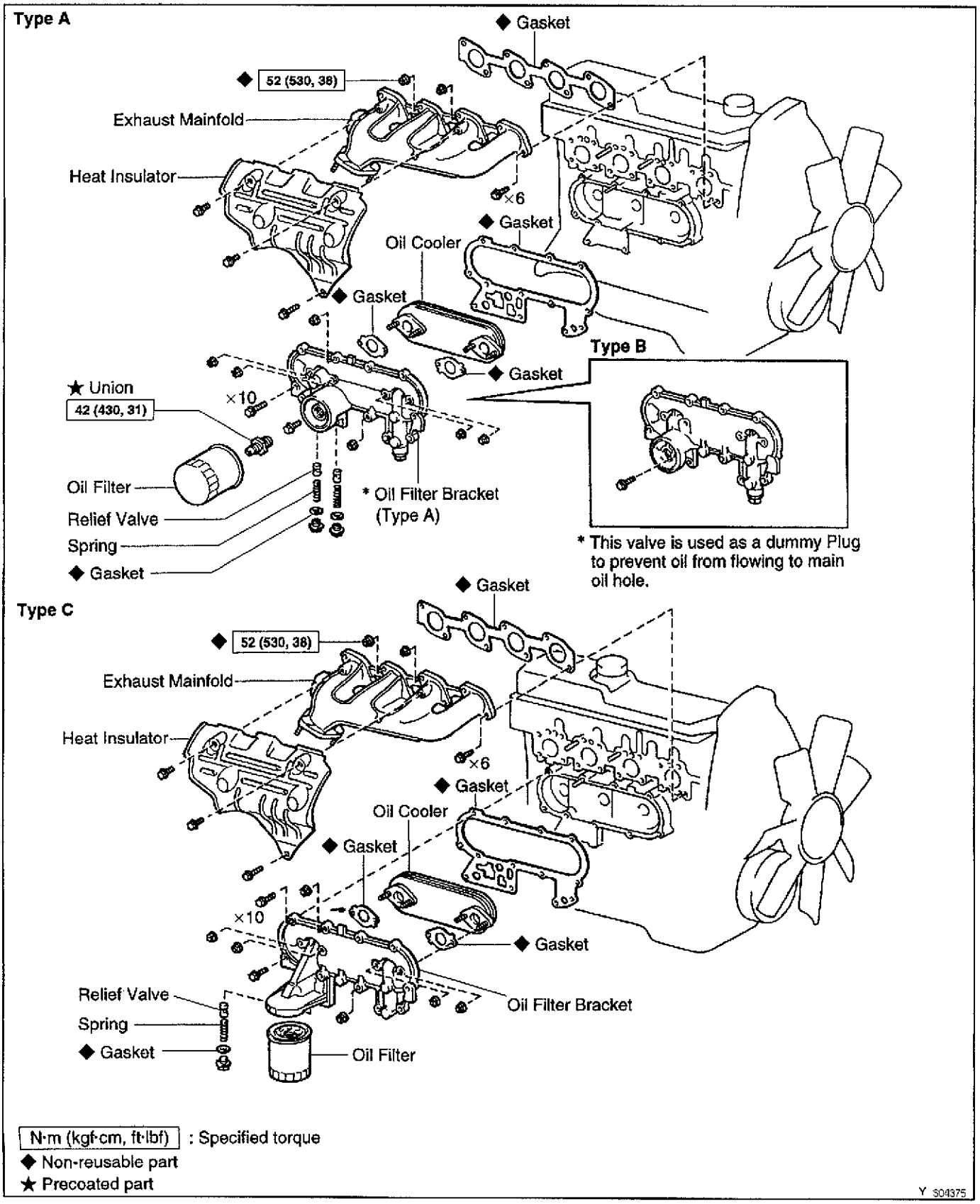
# OIL COOLER

## COMPONENTS FOR REMOVAL AND INSTALLATION

EQ623--03



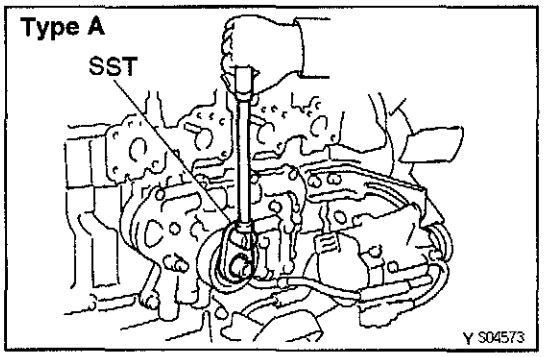

N·m (kgf·cm, ft·lbf) : Specified torque
◆ Non-reusable part
★ Precoated part

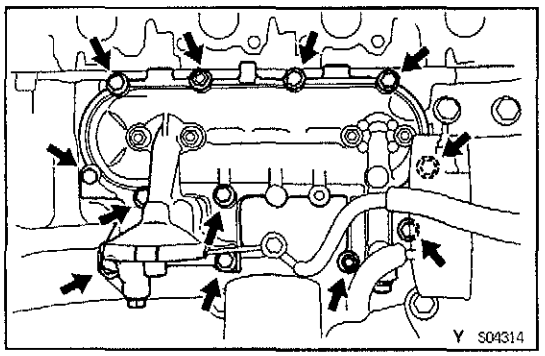
Y 304375

EG780-01

## OIL COOLER REMOVAL

1. **DRAIN ENGINE COOLANT**
2. **REMOVE EXHAUST MANIFOLD**
   **(See step 14 in cylinder head removal in Engine Mechanical)**
3. **REMOVE OIL FILTER**
   **(See step 2 in oil and filter replacement)**
4. ***REMOVE RELIEF VALVE(S)***
   Remove the plug, gasket, spring, relief valve and gasket.
   HINT (Types A and B):
   - Remove the 2 relief valves.
   - Arrange the spring and relief valve in correct order.
5. **Type A:**
   **REMOVE UNION FOR OIL FILTER**
   *Using SST, remove the union.*
   SST 09326–20011

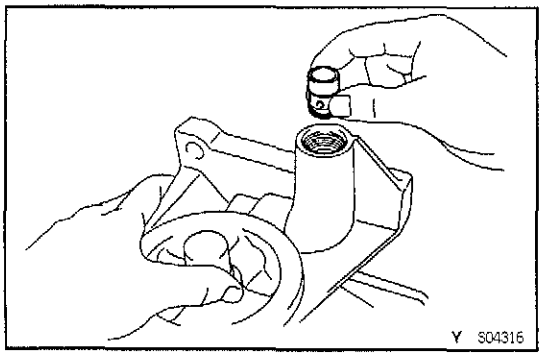


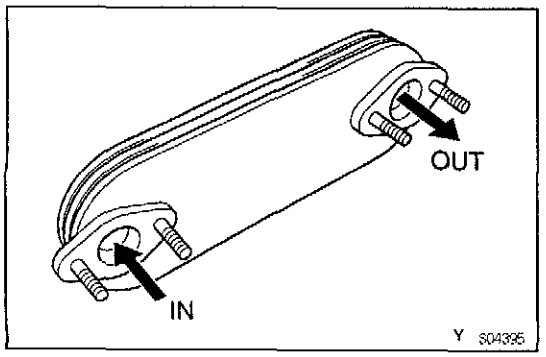

6. **REMOVE OIL COOLER AND OIL FILTER BRACKET ASSEMBLY**
   Remove the 10 bolts, (11 bolts for LN Thailand) 4 nuts, the oil cooler, oil filter bracket assembly and gasket.
7. **REMOVE OIL COOLER FROM OIL FILTER BRACKET**
   *Remove the 4 nuts, oil cooler and 2 gaskets from the filter bracket.*

EG625-02

## OIL COOLER AND RELIEF VALVE INSPECTION



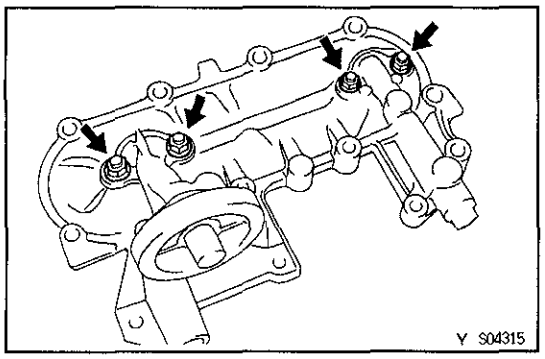

1. **INSPECT RELIEF VALVE**
   Coat the valve with engine oil and check that it falls smoothly into the oil filter bracket by its own weigh.
   If is not, replace the relief valve. If necessary, replace the oil filter bracket.




2. **INSPECT OIL COOLER**
   Check the oil cooler for damage or clogging.
   If necessary, replace the oil cooler.

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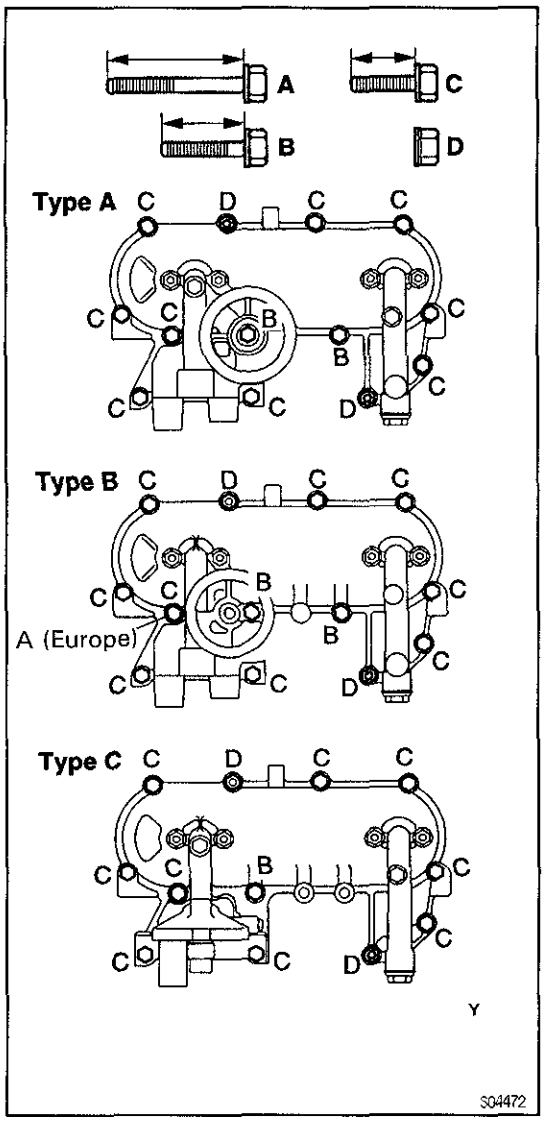
# OIL COOLER INSTALLATION




## 1. INSTALL OIL COOLER TO OIL FILTER BRACKET

Install 2 new gaskets and the oil cooler to the oil filter bracket with the 4 nuts.

**Torque: 15.5 N·m (160 kgf·cm, 11 ft·lbf)**




## 2. INSTALL OIL COOLER AND OIL FILTER BRACKET ASSEMBLY

Install a new gasket, the oil cooler and filter bracket assembly with the 10 bolts (11 bolts for LN Thailand) and 4 nuts.

**Torque:**

**Bolt**

**19 N·m (195 kgf·cm, 14 ft·lbf)**

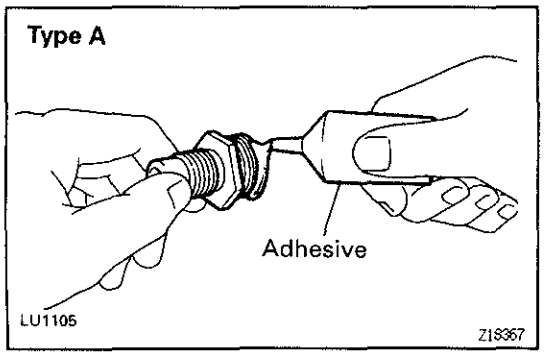
**Nut**

**20.5 N·m (210 kgf·cm, 15 ft·lbf)**

HINT: Each bolt length is indicated in the illustration.

Bolt length:

A 50 mm (1.97 in.)
B 35 mm (1.38 in.)
C 25 mm (0.98 in.)




## 3. Type A: INSTALL UNION FOR OIL FILTER

(a) Apply adhesive to 2 or 3 threads (oil cooler side) of the union.

**Adhesive:**

**Part No. 08833—00070, THREE BOND 1324 or equivalent**