

## Oil Filter Replacement

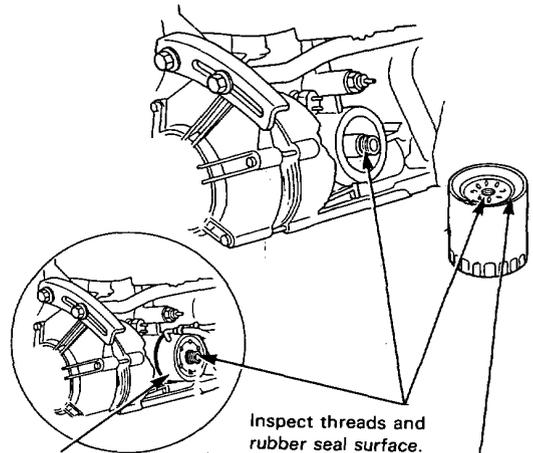
### JAPAN-MADE TYPE

**WARNING** After the engine has been run, the exhaust pipes will be hot; be careful when working around the exhaust manifold.

**CAUTION:** Used engine oil may cause skin cancer if repeatedly left in contact with the skin for prolonged periods. Although this is unlikely unless you handle used oil on a daily basis, it is still advisable to thoroughly wash your hands with soap and water as soon as possible after handling used oil.

1. Remove the oil filter with the special oil filter socket.
2. Inspect the threads and rubber seal on the new filter. Wipe off seat on engine block, then apply a light coat of oil to the filter rubber seal.

**NOTE:** Use only filters with a built-in bypass system.

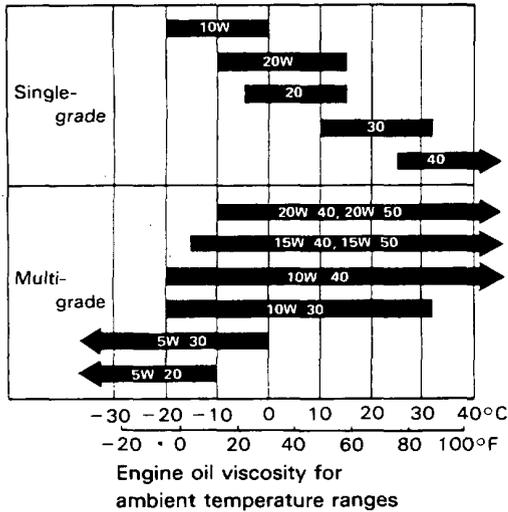


**ENGINE OIL COOLER**  
(Standard for some types)



Apply oil to rubber seal before installing.

### Recommended Engine Oil (SE, SF or SG Grade Oil)



#### NOTE:

- Oil filter should be replaced at each oil change.
- Because the oil will deteriorate rapidly under the following conditions, it should be changed sooner than usual.
  - Frequent traveling on unpaved roads.
  - Use in cold climates.
  - Frequent idling.
  - Repeated short distance travel.
  - Use as a tractor.

(cont'd)

# Engine Tune-up

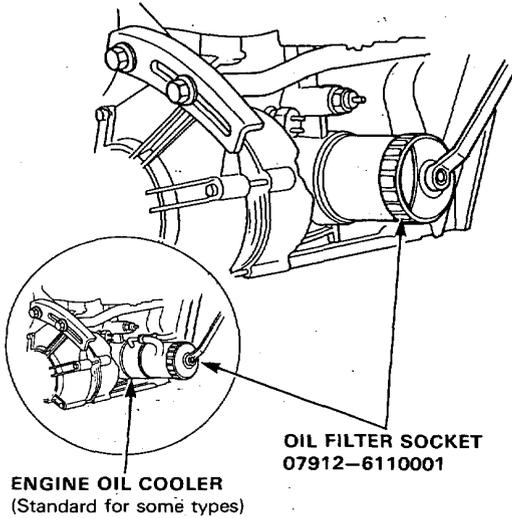
## Oil Filter Replacement (cont'd)

3. Install the oil filter by hand.
4. After the rubber seal is seated, tighten the oil filter clockwise with the special tool.

**Tighten: 7/8 turn clockwise.**

**Tightening torque: 22 N·m (2.2 kg-m, 16 lb-ft)**

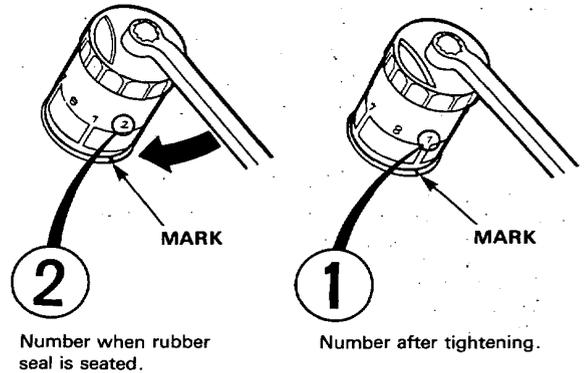
**CAUTION:** Installation other than the above procedure could result in serious engine defects due to oil leakage.



Eight numbers (1 to 8) are printed on the surface of the filter.

The following explains the procedure for tightening filters using these numbers.

- 1) Make a mark on the cylinder block under the number that shows at the bottom of the filter when the rubber seal is seated.
- 2) Tighten the filter by turning it clockwise seven numbers from the marked point. For example, if a mark is made under the number 2 when the rubber seal is seated, the filter should be tightened until the number 1 comes up to the marked point.



Number when rubber seal is seated	1	2	3	4	5	6	7	8
Number after tightening	8	1	2	3	4	5	6	7

5. After installation, fill the engine with oil up to the specified level, run the engine for more than 3 minutes, then check for oil leakage.

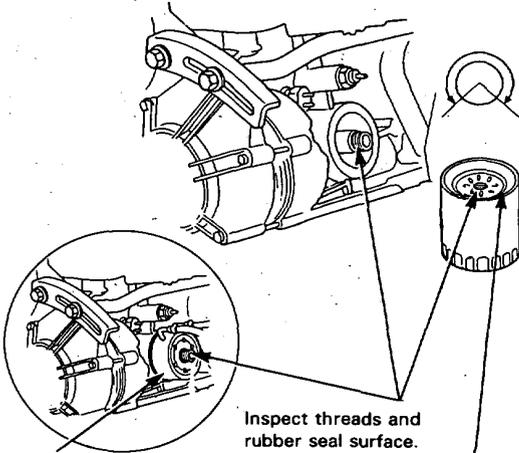


## FRANCE-MADE TYPE

**WARNING** : After the engine has been run, the exhaust pipes will be hot, be careful when working around the exhaust manifold.

**CAUTION**: Used engine oil may cause skin cancer if repeatedly left in contact with the skin for prolonged periods. Although this is unlikely unless you handle used oil on a daily basis, it is still advisable to thoroughly wash your hands with soap and water as soon as possible after handling used oil.

1. Remove the oil filter with the special oil filter socket or wrench.
2. Inspect the threads and rubber seal on the new filter. Wipe off seat on engine block, then apply a light coat of oil to the rubber seal, and install filter.
3. After the rubber seal is seated, tighten the filter by turning approximately three quarter turn.

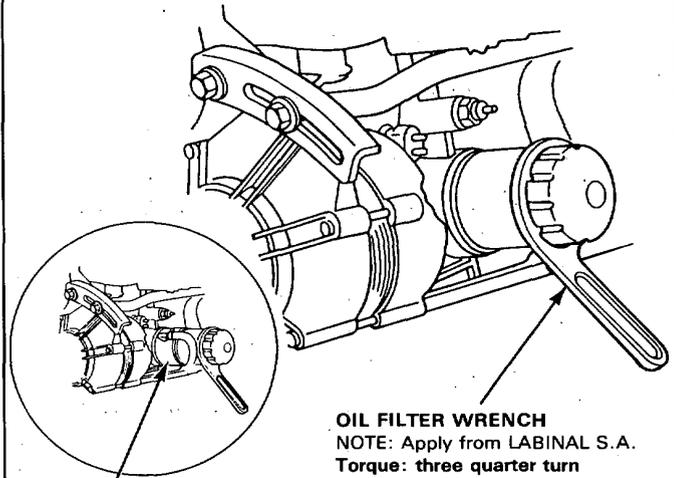


**ENGINE OIL COOLER**  
(Standard for some types)

Inspect threads and rubber seal surface.



Apply oil to rubber seal before installing.



**OIL FILTER WRENCH**

NOTE: Apply from LABINAL S.A.  
Torque: three quarter turn  
22 N·m (2.2 kg-m, 16 lb-ft)

**ENGINE OIL COOLER**  
(Standard for some types)

4. Start the engine and check the filter for oil leakage.