

OIL FILTER

REMOVAL

CAUTION:

- Prolonged and repeated contact with engine oil will cause the removal of natural oils from the skin, leading to dryness, irritation and dermatitis. In addition, used engine oil contains potentially harmful contaminants which may cause skin cancer.
- Precautions should be taken when replacing engine oil to minimize the risk of your skin making contact with used engine oil.
- Wash your skin thoroughly with soap and water, or use waterless hand cleaner to remove any used engine oil. Do not use gasoline, thinners, or solvents.
- For environmental protection, used oil and used oil filters must be disposed of only at designated disposal sites.

1. DRAIN ENGINE OIL

- (a) Remove the engine under cover seal No. 3.
- (b) Remove the oil pan drain plug and drain the engine oil.
- (c) Clean the oil pan drain plug and install it with a new gasket.

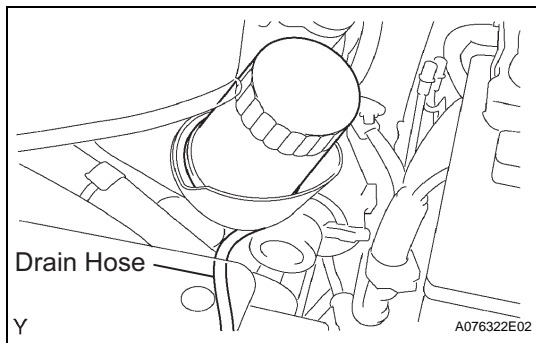
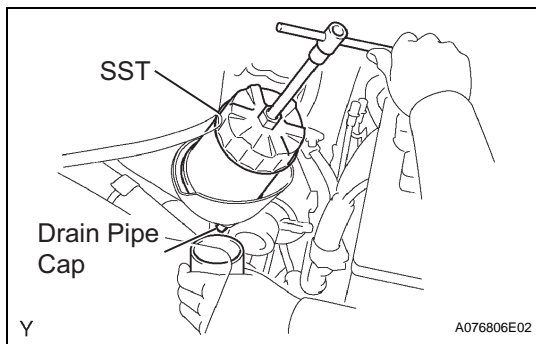
Torque: 40 N*m (408 kgf*cm, 30 ft.*lbf)

2. REMOVE OIL FILTER SUB-ASSEMBLY

- (a) Remove the drain pipe cap.
- (b) While removing the oil filter with SST, catch the oil from the oil filter with a container.

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- (c) Install the drain pipe cap.



- (d) Clean the oil catch plate.

HINT:

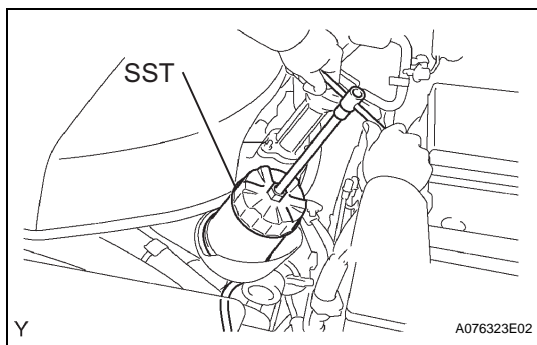
When using a drain hose, perform the following procedures.

- (e) Remove the drain pipe cap.
- (f) Connect a drain hose to the oil filter bracket.

HINT:

- Drain hose inside diameter: 8 mm (0.31 in.)
- Drain hose length: 900 mm (35.43 in.)

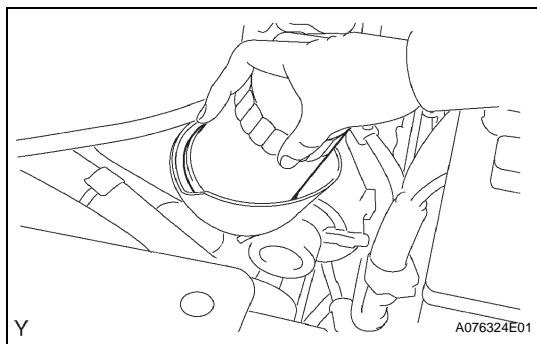
- (g) Feed the drain hose down through the engine under cover, and put the drain oil container beneath the drain hose to catch the oil from the oil filter.



- (h) Using SST, remove the oil filter.

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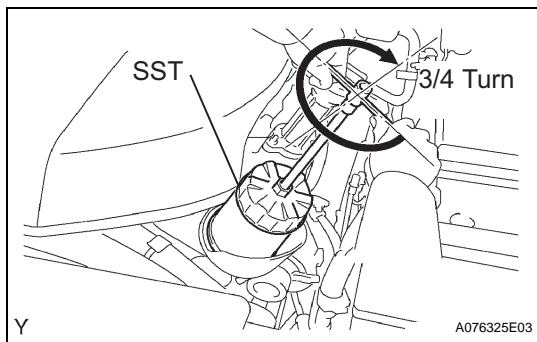
- (i) Remove the drain hose and install the drain pipe cap.
(j) Clean the oil catch plate.



INSTALLATION

1. INSTALL OIL FILTER SUB-ASSEMBLY

- (a) Clean the oil filter contact surface on the oil filter bracket.
(b) Apply clean engine oil to the rubber gasket of a new oil filter.
(c) Tighten the oil filter by hand until the rubber gasket comes into contact with the seat of the filter bracket.



- (d) Using SST, tighten it an additional 3/4 turn to set the filter.

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Torque: 18 N*m (184 kgf*cm, 13 ft.*lbf)

2. ADD ENGINE OIL

- (a) Fill with fresh engine oil.

Capacity:

2WD

Drain and refill with oil filter change	4.5 liters (4.8 US qts, 4.0 Imp. qts)
Drain and refill without oil filter change	4.2 liters (4.4 US qts, 3.7 Imp. qts)
Dry fill	5.6 liters (5.9 US qts, 4.9 Imp. qts)

PRE RUNNER and 4WD

Drain and refill with oil filter change	5.2 liters (5.5 US qts, 4.6 Imp. qts)
Drain and refill without oil filter change	4.9 liters (5.2 US qts, 4.3 Imp. qts)
Dry fill	6.0 liters (6.3 US qts, 5.3 Imp. qts)

- (b) Reinstall the oil filler cap.

3. CHECK FOR ENGINE OIL LEAKAGE

4. CHECK ENGINE OIL LEVEL