

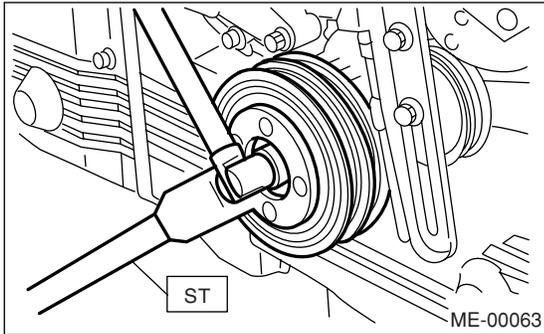
## 13.Crank Pulley

### A: REMOVAL

1) Remove the V-belts. <Ref. to ME(H4DOTC)-37, REMOVAL, V-belt.>

2) Remove the crank pulley bolt. To lock the crankshaft, use ST.

ST 499977100 CRANK PULLEY WRENCH



3) Remove the crank pulley.

### B: INSTALLATION

1) Install the crank pulley.

2) Install the pulley bolt.

To lock the crankshaft, use ST.

ST 499977100 CRANK PULLEY WRENCH

(1) Clean the crank shaft thread using compressed air.

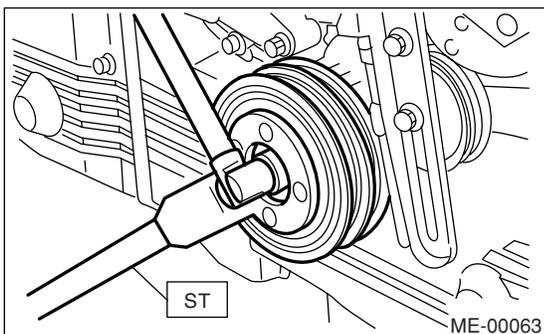
(2) Apply engine oil to the crank pulley bolt seat and thread.

(3) Tighten the bolts temporarily with tightening torque of 44 N·m (4.5 kgf·m, 33 ft·lb).

(4) Tighten the crank pulley bolts.

#### Tightening torque:

**180 N·m (18.3 kgf·m, 132.7 ft·lb)**



3) Confirm that the tightening angle of the crank pulley bolt is 65° or more. Perform the following procedures when less than 65°.

#### CAUTION:

**If the tightening angle of crank pulley bolt is less than 45°, the bolt should be damaged. In this case, the bolt must be replaced.**

(1) Replace and clean the crank pulley bolts.

#### Crank pulley bolt:

**Part No. 12369AA011**

(2) Clean the crankshaft thread using compressed air.

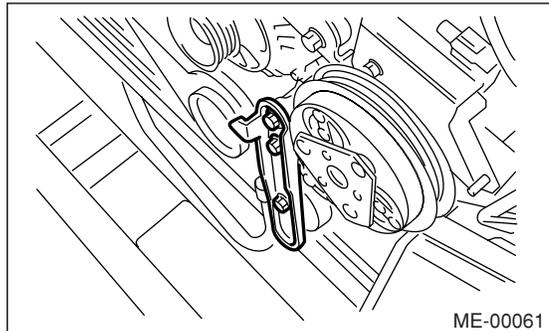
(3) Tighten the bolts temporarily with tightening torque of 44 N·m (4.5 kgf·m, 33 ft·lb).

(4) Tighten the crank pulley bolts keeping them in an angle 65° — 75°.

#### NOTE:

Conduct the tightening procedures by confirming the turning angle of the crank pulley bolt referring to the gauge indicated on the timing belt cover.

4) Install the A/C belt tensioner.



5) Install the V-belts. <Ref. to ME(H4DOTC)-37, INSTALLATION, V-belt.>

### C: INSPECTION

1) Check the V-belt is not worn or otherwise damaged.

2) Check the tension of the belt. <Ref. to ME(H4DOTC)-38, INSPECTION, V-belt.>