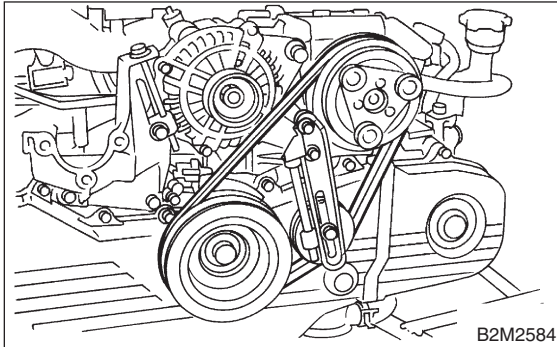


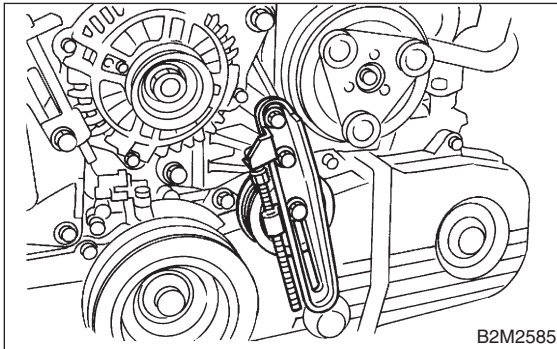
## 10. Crankshaft Pulley S103098

### A: REMOVAL S103098A18

- 1) Remove A/C belt. (With A/C model)



- 2) Remove A/C belt tensioner. (With A/C model)



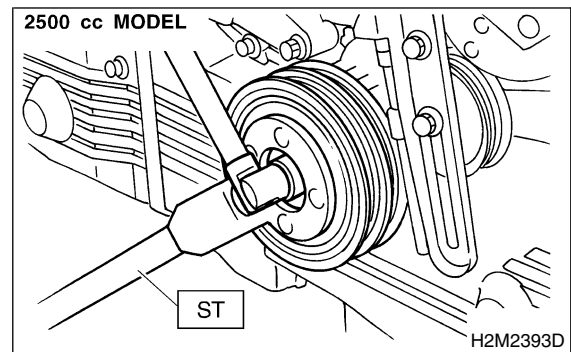
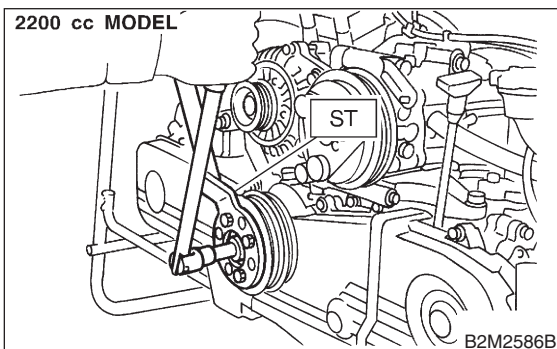
- 3) Remove crankshaft pulley bolt. To lock crankshaft, use ST.

2200 cc model:

ST 499977300 CRANKSHAFT PULLEY  
WRENCH

2500 cc model:

ST 499977100 CRANKSHAFT PULLEY  
WRENCH



- 4) Remove crankshaft pulley.

### B: INSTALLATION S103098A11

- 1) Install front belt cover.

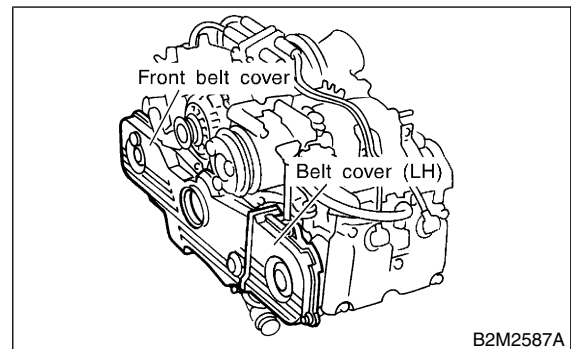
**Tightening torque:**

**5 N·m (0.5 kgf-m, 3.6 ft-lb)**

- 2) Install belt cover (LH).

**Tightening torque:**

**5 N·m (0.5 kgf-m, 3.6 ft-lb)**



- 3) Install crankshaft pulley.

# CRANKSHAFT PULLEY

Mechanical

4) Install pulley bolt. (2200 cc model)

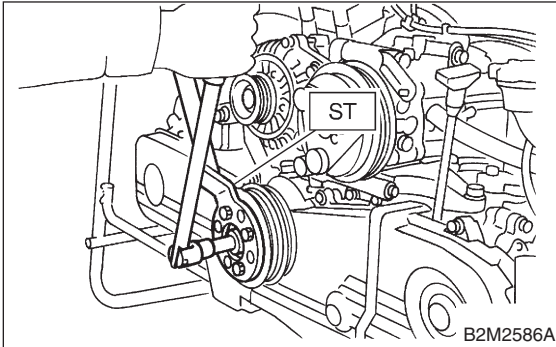
To lock crankshaft, use ST.

ST 499977000 CRANKSHAFT PULLEY  
WRENCH

- (1) Clean the crankshaft pulley thread using an air gun.
- (2) Apply engine oil to the crankshaft 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 crankshaft pulley bolts.

**Tightening torque:**

**127 N·m (13.0 kgf-m, 94.0 ft-lb)**



5) Confirm that the tightening angle of the crankshaft pulley bolt is 45 degrees or more. If not, conduct the following procedures (1) through (4).

- (1) Replace the crankshaft pulley bolts and clean them.

**Crankshaft pulley bolt:**  
**12369AA011**

- (2) Clean the crankshaft thread using an air gun.
- (3) Tighten the bolts temporarily with tightening torque of 44 N·m (4.5 kgf-m, 33 ft-lb).
- (4) Tighten the crankshaft pulley bolts keeping them in an angle between 45 degrees and 60 degrees.

**CAUTION:**

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

6) Install pulley bolt. (2500 cc model)

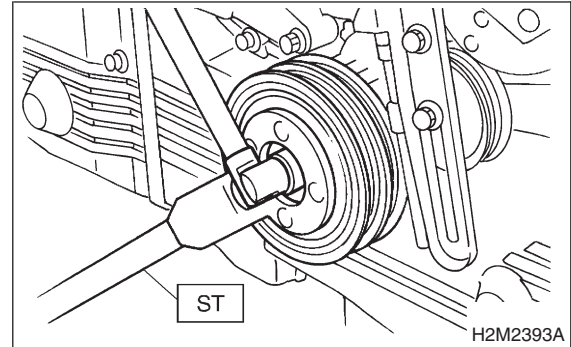
To lock crankshaft, use ST.

ST 499977100 CRANKSHAFT PULLEY  
WRENCH

- (1) Clean the crankshaft pulley thread using an air gun.
- (2) Apply engine oil to the crankshaft 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 crankshaft pulley bolts.

**Tightening torque:**

**177 N·m (18.0 kgf-m, 130.2 ft-lb)**



7) Confirm that the tightening angle of the crankshaft pulley bolt is 65 degrees or more. If not, conduct the following procedures (1) through (4).

- (1) Replace the crankshaft pulley bolts and clean them.

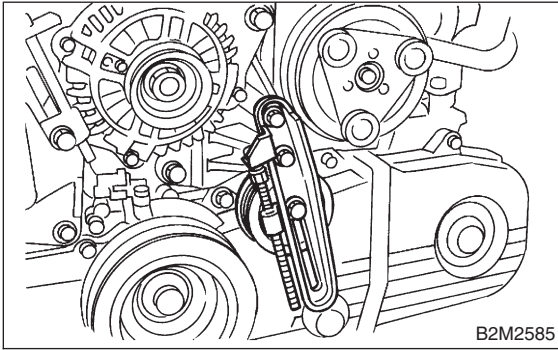
**Crankshaft pulley bolt:**  
**12369AA011**

- (2) Clean the crankshaft thread using an air gun.
- (3) Tighten the bolts temporarily with tightening torque of 44 N·m (4.5 kgf-m, 33 ft-lb).
- (4) Tighten the crankshaft pulley bolts keeping them in an angle between 65 degrees and 75 degrees.

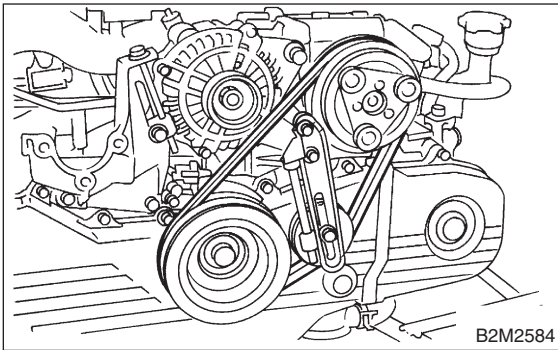
**CAUTION:**

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

8) Install A/C belt tensioner. (With A/C model)



9) Install A/C belt. (With A/C model)



## C: INSPECTION S103098A10

- 1) Make sure the V-belt is not worn or otherwise damaged.
- 2) Check the tension of the belt. <Ref. to ME-48 INSPECTION, V-belt.>