

6. V-belt

A: INSPECTION

CAUTION:

Check and adjust the front side belt tension so that it is within the specified range. Using the belt with a tension out of the specified range may result in a fault such as the following:

- If the front side belt tension is higher, unexpected force is generated at the power steering oil pump, generator and crankshaft bearing, causing abnormal noise due to abnormal wear of the bearing.
- If the front side belt tension is lower, the front side belt and crank pulley slip, causing abnormally high temperature on the crank pulley due to frictional heat. If this condition repeatedly occurs, the front side belt may abnormally wear, causing abnormal noise, front side belt damage or crank pulley damage.

NOTE:

Since the rear belt is a stretch type belt, it does not require tension check and adjustment.

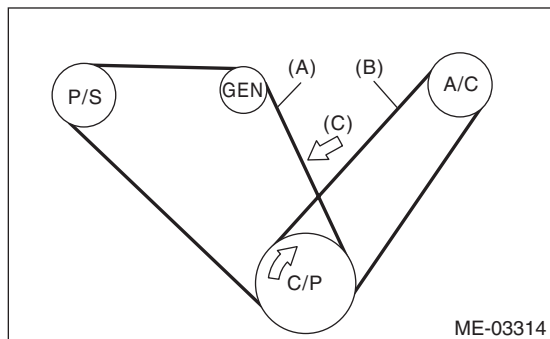
1. PROCEDURE (WITHOUT BELT TENSION GAUGE)

- 1) Replace the belts if cracks, fraying or wear are found.
- 2) Check the V-belt tension and adjust it if necessary by changing the generator installing position or idler pulley installing position. <Ref. to PM-11, REPLACEMENT, V-belt.>

Belt tension (force of 98 N (10 kgf, 22 lbf) is applied)

When replacing: 7 — 9 mm (0.276 — 0.354 in)

When reusing: 9 — 11 mm (0.354 — 0.433 in)



- (A) Front side belt
- (B) Rear side belt
- (C) 98 N (10 kgf, 22 lbf)
- C/P Crank pulley
- GEN Generator pulley
- P/S Power steering oil pump pulley
- A/C A/C compressor pulley

2. PROCEDURE (WITH BELT TENSION GAUGE)

- 1) Replace the belts if cracks, fraying or wear are found.
- 2) Remove the V-belt covers and radiator reservoir tank.
- 3) Check the belt tension, using the belt tension gauge. Adjust the tension, if necessary by changing the generator installing position or idler pulley installing position.

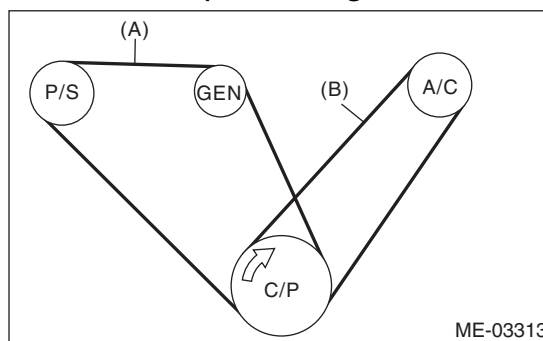
Belt tension

When installing new parts:

640 — 780 N (65 — 80 kgf, 144 — 175 lbf)

At inspection:

490 — 640 N (50 — 65 kgf, 110 — 144 lbf)

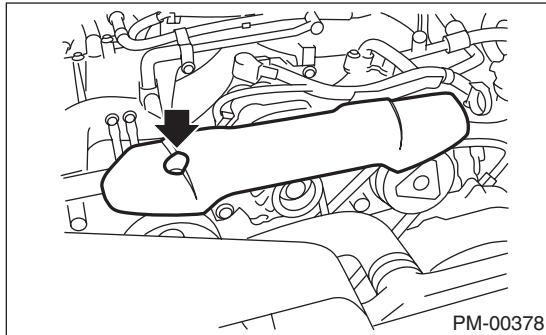


- (A) Front side belt
- (B) Rear side belt
- C/P Crank pulley
- GEN Generator pulley
- P/S Power steering oil pump pulley
- A/C A/C compressor pulley

B: REPLACEMENT**1. FRONT SIDE BELT (FOR POWER STEERING OIL PUMP AND GENERATOR)****NOTE:**

Wipe off any oil or water on the belt and pulley.

- 1) Remove the V-belt covers.



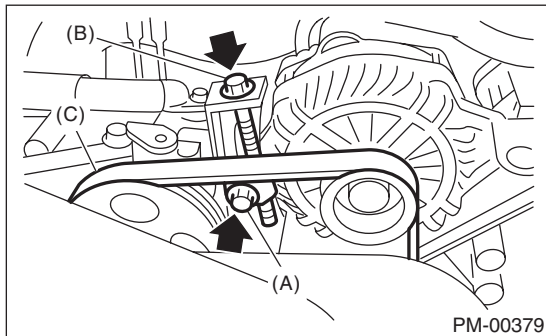
- 2) Loosen the lock bolt (A).
- 3) Loosen the slider bolt (B).
- 4) Remove the front side belt (C).
- 5) Install a new belt, and tighten the slider bolt so as to obtain the specified belt tension.
- 6) Tighten the lock bolt (A).
- 7) Tighten the slider bolt (B).

Tightening torque:**Lock bolt**

25 N·m (2.5 kgf-m, 18.4 ft-lb)

Slider bolt

8 N·m (0.8 kgf-m, 5.9 ft-lb)



- 8) Start and run the engine for approximately five minutes to allow the V-belt to become fitted. (When using the gauge)
- 9) Stop the engine, check the belt tension and adjust as necessary. (When using the gauge)
- 10) Start and run the engine for approximately one minute to allow the V-belt to become fitted. (When using the gauge)
- 11) Stop the engine and check that the belt tension is within the specification. (When using the gauge)
- 12) Adjust until the specified belt tension is obtained. (When using the gauge)

2. REAR SIDE BELT (FOR A/C)**CAUTION:**

Always use new rear side belt.

- 1) Remove the front side belts.
- 2) Cut the rear side belt.
- 3) Install a new belt using an installation jig. <Ref. to ME(H4SO)-40, REAR SIDE BELT, INSTALLATION, V-belt.>
- 4) Install the front side belt. <Ref. to ME(H4SO)-39, FRONT SIDE BELT, INSTALLATION, V-belt.>