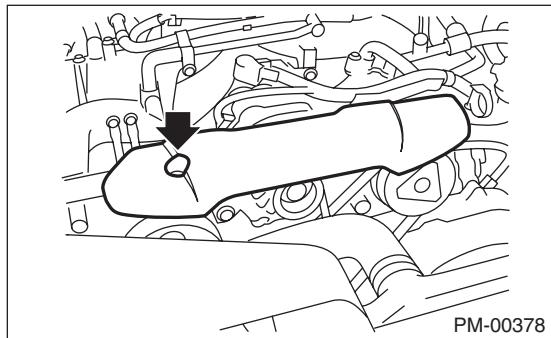


7. Timing Belt

A: REPLACEMENT

1. NON-TURBO MODEL

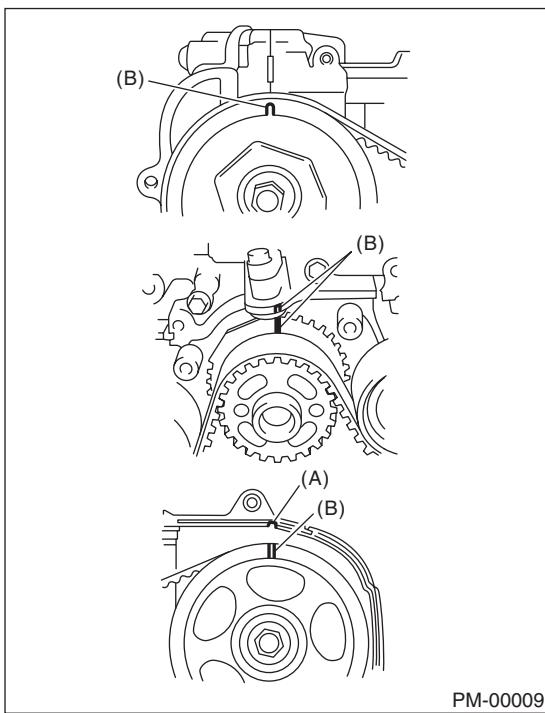
- 1) Remove the radiator fan and air conditioner fan. <Ref. to CO(H4SO)-23, REMOVAL, Radiator Main Fan and Fan Motor. > <Ref. to CO(H4SO)-25, REMOVAL, Radiator Sub Fan and Fan Motor. >
- 2) Protect the radiator with cardboard and blanket.
- 3) Remove the V-belt covers.



- 4) Remove the V-belts. <Ref. to ME(H4SO)-39, REMOVAL, V-belt. >
- 5) Remove the crank pulley. <Ref. to ME(H4SO)-46, REMOVAL, Crank Pulley. >
- 6) Remove the timing belt cover. <Ref. to ME(H4SO)-48, REMOVAL, Timing Belt Cover. >

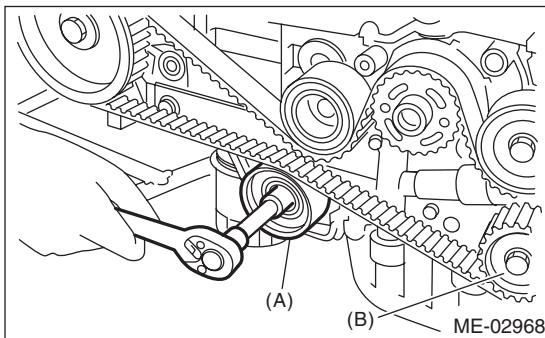
- 7) Using ST, turn the crankshaft and align the alignment marks on crankshaft and left and right cam sprockets with alignment marks of belt cover and oil pump.

ST 499987500 CRANKSHAFT SOCKET



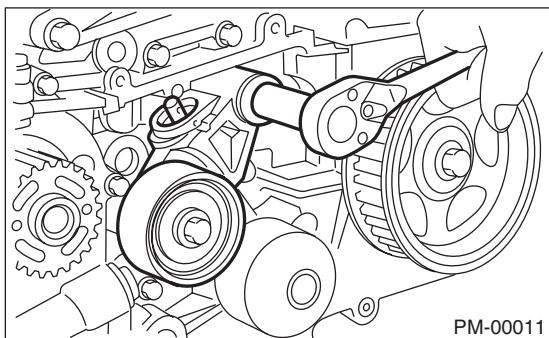
(A) Notch
(B) Alignment mark

- 8) Remove the belt idler (A).
- 9) Remove the belt idler No. 2 (B).

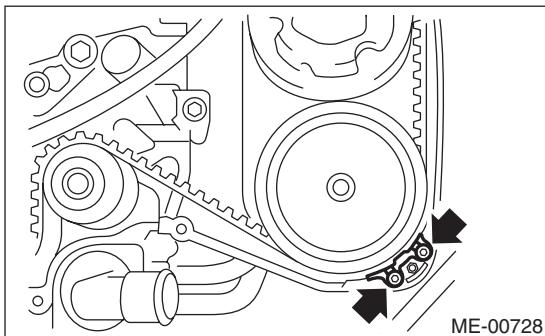


- 10) Remove the timing belt.

11) Remove the automatic belt tension adjuster assembly.



PM-00011

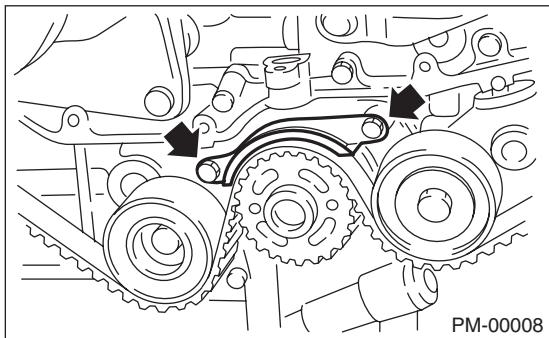


ME-00728

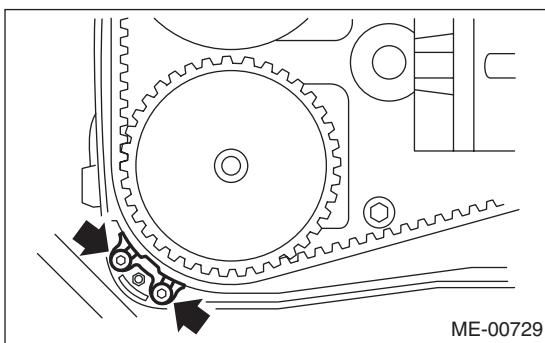
12) Install in the reverse order of removal. <Ref. to ME(H4SO)-50, INSTALLATION, Timing Belt.>

2. TURBO MODEL

- 1) Remove the radiator fan and air conditioner fan. <Ref. to CO(H4DOTC)-24, REMOVAL, Radiator Main Fan and Fan Motor.> <Ref. to CO(H4DOTC)-26, REMOVAL, Radiator Sub Fan and Fan Motor.>
- 2) Protect the radiator with cardboard and blanket.
- 3) Remove the V-belts. <Ref. to ME(H4DOTC)-40, REMOVAL, V-belt.>
- 4) Remove the crank pulley. <Ref. to ME(H4DOTC)-47, REMOVAL, Crank Pulley.>
- 5) Remove the timing belt cover. <Ref. to ME(H4DOTC)-49, REMOVAL, Timing Belt Cover.>
- 6) Remove the timing belt guide. (MT model)



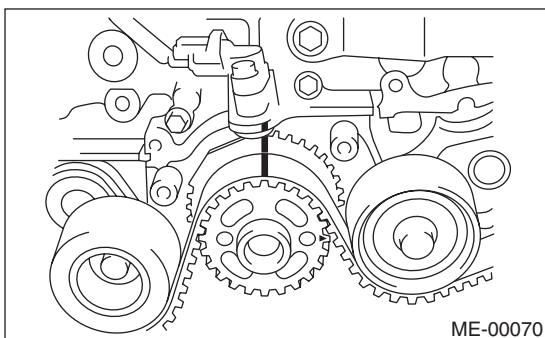
PM-00008



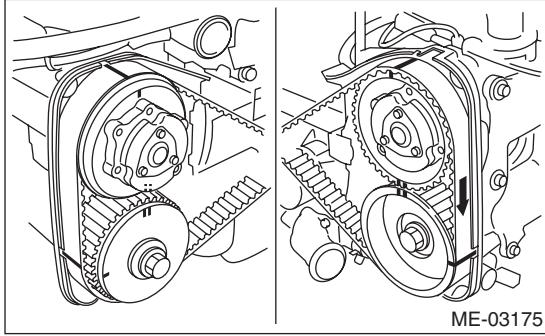
ME-00729

7) Using ST, turn the crankshaft and align the alignment marks on crankshaft and left and right cam sprockets with alignment marks of belt cover and oil pump.

ST 499987500 CRANKSHAFT SOCKET



ME-00070

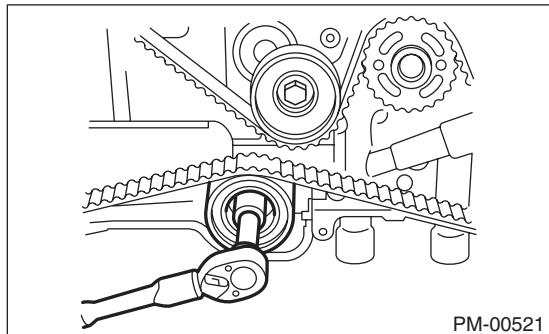


ME-03124

Timing Belt

PERIODIC MAINTENANCE SERVICES

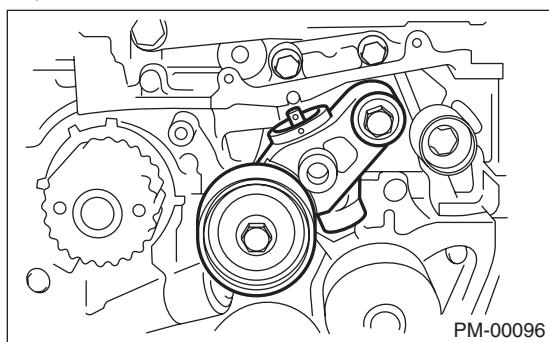
8) Remove the belt idler.



PM-00521

9) Remove the timing belt.

10) Remove the automatic belt tension adjuster assembly.



PM-00096

11) Install in the reverse order of removal. <Ref. to ME(H4DOTC)-52, INSTALLATION, Timing Belt.>

CAUTION:

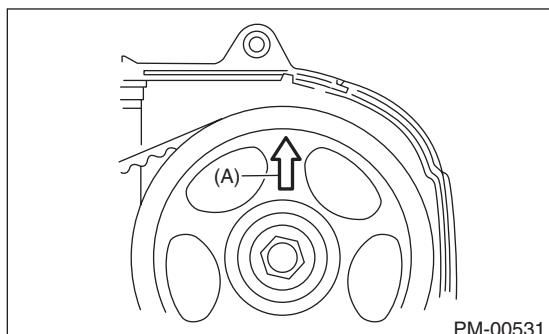
When installing the timing belt, be sure to align all alignment marks on the belt with corresponding marks on the sprockets. If incorrectly installed, interference between pistons and valves may occur.

B: INSPECTION

1. SOHC MODEL (CHECK FOR TIMING BELT POSITION)

- 1) Remove the timing belt cover (LH).
- 2) Turn the crank pulley to set #1 cylinder piston to top dead center of compression stroke and check the followings.

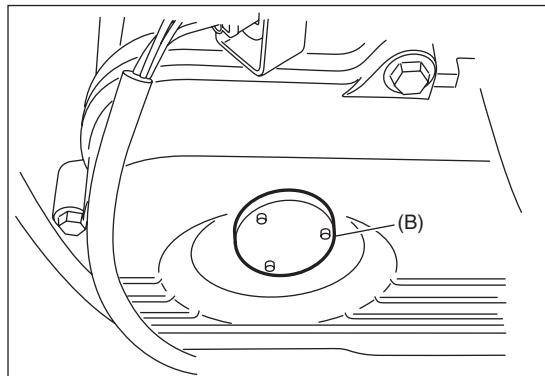
(1) Check that the arrow (A) of camshaft pulley LH points to the upright.



PM-00531

(2) Remove the sealing rubber (B) of the timing belt cover RH.

(3) Check that the arrow (C) of camshaft pulley RH points to the upright.



PM-00532

3) When camshaft pulley or timing belt position is offset, check for any defect and repair or replace as required.

2. SOHC MODEL (CHECK FOR OTHERS)

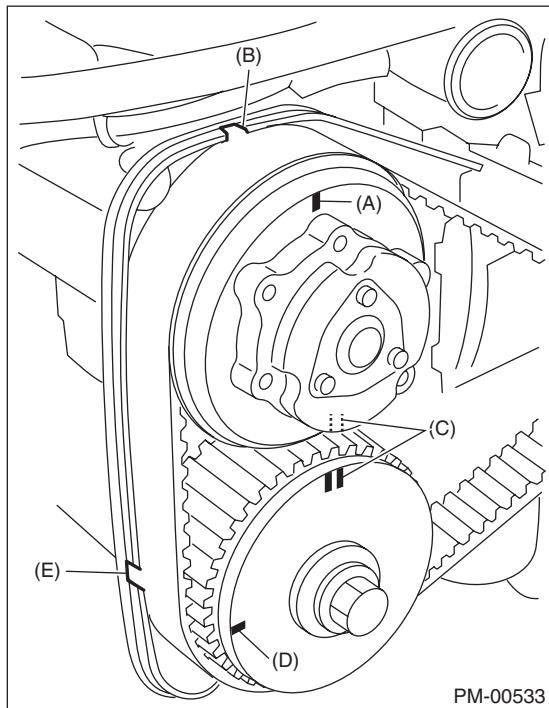
- 1) Remove the timing belt cover (LH).
- 2) While cranking engine at least four rotations, check the timing belt back surface for cracks or damage. Replace the faulty timing belt as needed.
- 3) When the side part of timing belt (arrow direction shown in the figure) is abnormally worn (fluff or jumping out of core) or damaged, check the idlers, tensioner, water pump pulley and cam sprocket to determine idler alignment (squareness). Replace the worn or damaged timing belt.
- 4) Install the timing belt cover (LH).

3. DOHC MODEL (CHECK FOR TIMING BELT POSITION)

- 1) Remove the timing belt cover (LH) and (RH).
- 2) Turn the crank pulley and align single line mark (A) on the intake camshaft pulley (RH) with notch (B) on timing belt cover and check the following.

(1) Make sure double lines (C) on intake and exhaust camshaft pulley (RH side) are aligned.

(2) Make sure single line (D) on exhaust cam shaft pulley (RH side) is aligned to timing belt cover notch (E).

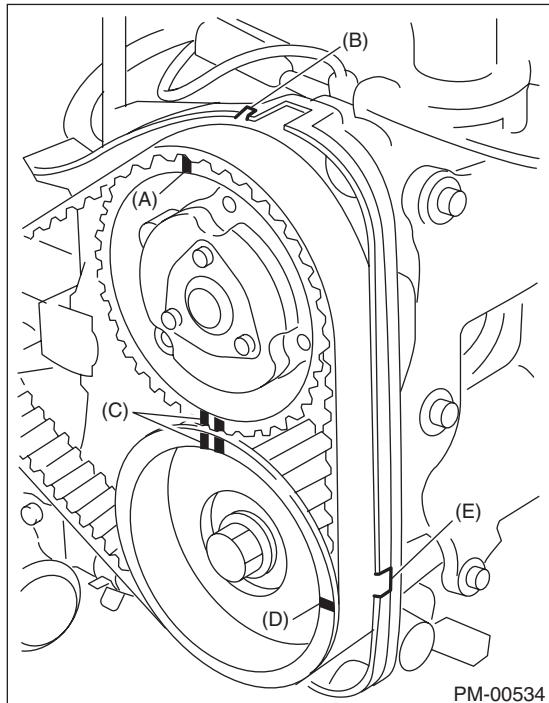


PM-00533

(3) Make sure single line (A) on intake cam shaft pulley (LH side) is aligned to timing belt cover notch (B).

(4) Make sure double lines (C) on intake and exhaust camshaft pulley (LH side) are aligned.

(5) Check that the single line mark (D) on the exhaust camshaft pulley LH and notch (E) on the timing belt cover are aligned.



PM-00534

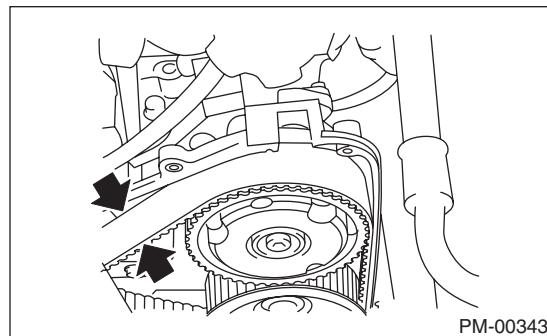
3) When camshaft pulley position is offset, check for any defect and should be repaired or replaced as required.

4. DOHC MODEL (CHECK FOR OTHERS)

1) Remove the timing belt cover (LH).

2) While cranking engine at least four rotations, check the timing belt back surface for cracks or damage. Replace faulty timing belts with new parts as required.

3) When the side part of timing belt (arrow direction shown in the figure) is abnormally worn (fluff or jumping out of core) or damaged, check the idlers, tensioner, water pump pulley and cam sprocket to determine idler alignment (squareness). Replace the worn timing belt with new part.



PM-00343

4) Install the timing belt cover (LH).