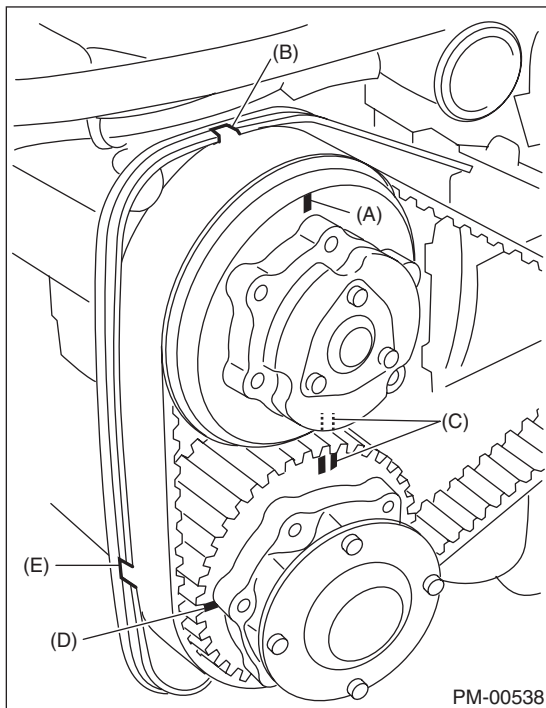


7. Timing Belt

A: INSPECTION

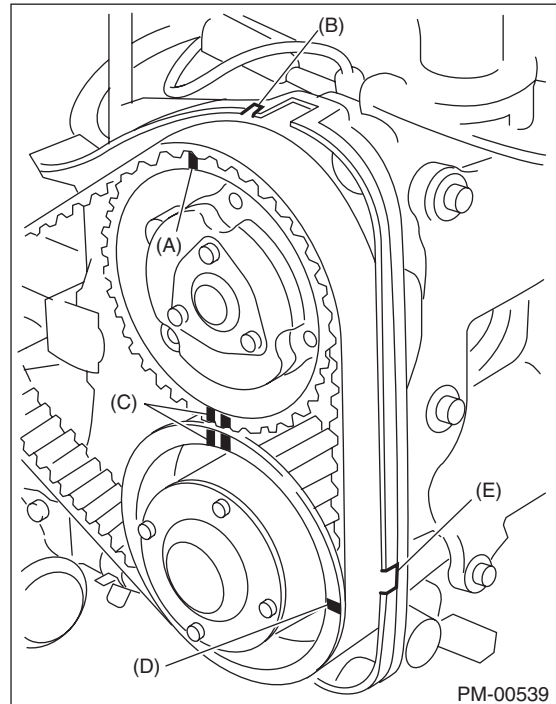
1. CHECK TIMING BELT POSITION

- 1) Remove the timing belt cover (LH) and (RH).
- 2) Turn the crank pulley and align single line mark (A) on the intake cam sprocket (RH) with notch (B) on timing belt cover and check the following.
 - (1) Make sure double lines (C) on intake and exhaust cam sprocket (RH side) are aligned.
 - (2) Make sure single line (D) on exhaust cam sprocket (RH side) is aligned to timing belt cover notch (E).



- (3) Make sure single line (A) on intake cam sprocket (LH side) is aligned to timing belt cover notch (B).
- (4) Make sure double lines (C) on intake and exhaust cam sprocket (LH side) are aligned.

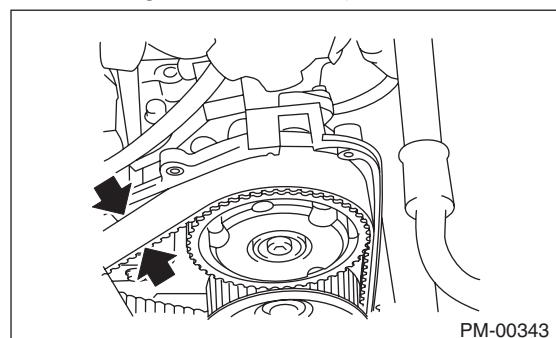
- (5) Check that the single line mark (D) on the exhaust cam sprocket (LH side) and notch (E) on the timing belt cover are aligned.



- 3) When cam sprocket position is offset, check for any defect, and repair or replace as required.

2. OTHER INSPECTIONS

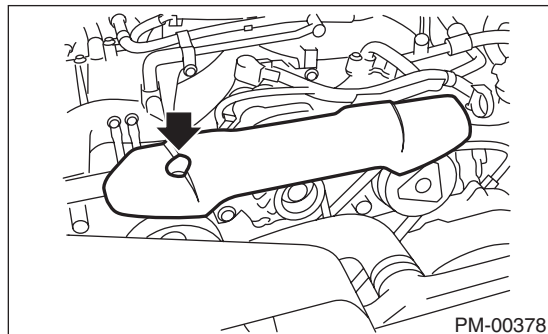
- 1) Remove the timing belt cover (LH).
- 2) While cranking engine at least four rotations, check the timing belt back surface for cracks or damage. Replace faulty timing belts with new parts as required.
- 3) When the side part of timing belt (arrow direction shown in the figure) is abnormally worn (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.



- 4) Install the timing belt cover (LH).

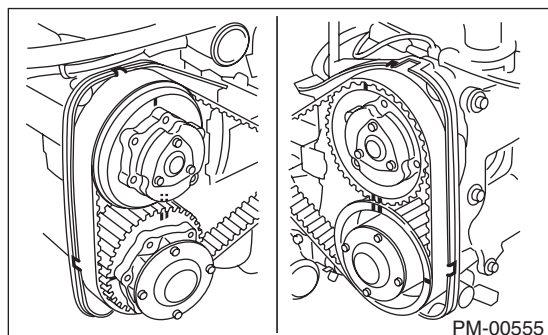
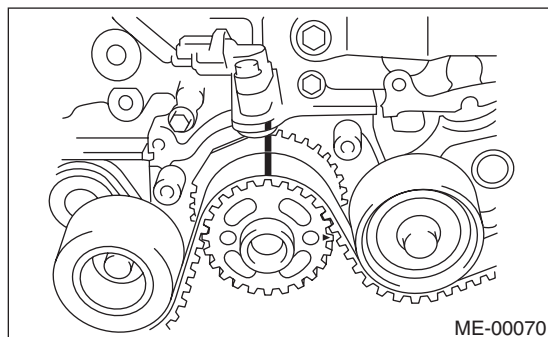
B: REPLACEMENT

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

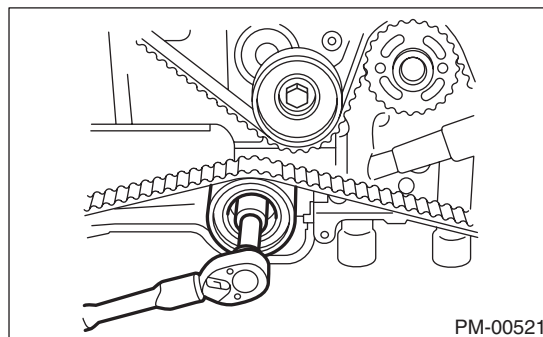


- 4) Remove the V-belts. <Ref. to ME(STI)-40, V-belt.> <Ref. to ME(w/o STI)-38, V-belt.>
- 5) Remove the crank pulley. <Ref. to ME(STI)-47, REMOVAL, Crank Pulley.> <Ref. to ME(w/o STI)-45, REMOVAL, Crank Pulley.>
- 6) Remove the timing belt cover. <Ref. to ME(STI)-49, REMOVAL, Timing Belt Cover.> <Ref. to ME(w/o STI)-47, 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.

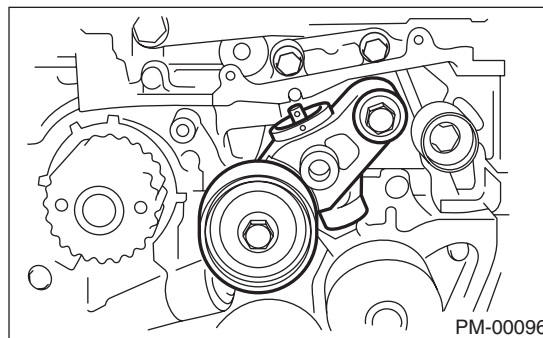
ST 499987500 CRANKSHAFT SOCKET



- 8) Remove the belt idler.



- 9) Remove the timing belt.
- 10) Remove the automatic belt tension adjuster assembly.



- 11) Install in the reverse order of removal. <Ref. to ME(STI)-52, INSTALLATION, Timing Belt.> <Ref. to ME(w/o STI)-50, 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.