

16. Cam Sprocket

A: REMOVAL

1. CAM SPROCKET RH

NOTE:

When replacing a single part, perform the work with the engine assembly installed to body.

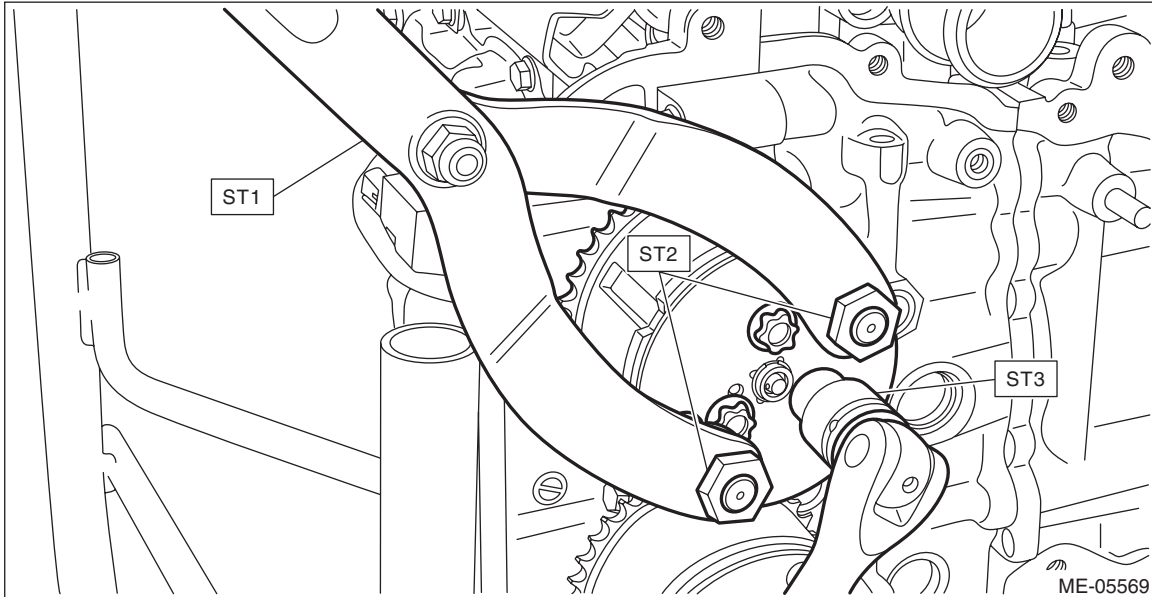
• **Intake cam sprocket RH**

- 1) Remove the chain cover. <Ref. to ME(H4DO(w/o HEV))-149, REMOVAL, Chain Cover.>
- 2) Remove the timing chain RH. <Ref. to ME(H4DO(w/o HEV))-169, TIMING CHAIN RH, REMOVAL, Timing Chain Assembly.>
- 3) Hold the intake cam sprocket RH using the ST1 and ST2, and remove the bolts using the ST3.

CAUTION:

For gasoline engine models, perform the operation carefully since the ST comes off easily.

ST1	18355AA000	PULLEY WRENCH
ST2	18334AA020	PULLEY WRENCH PIN SET (gasoline engine model)
ST2	18334AA030	PULLEY WRENCH PIN SET (HEV model)
ST3	18270KA010	SOCKET



- 4) Remove the intake cam sprocket RH.

Cam Sprocket

MECHANICAL

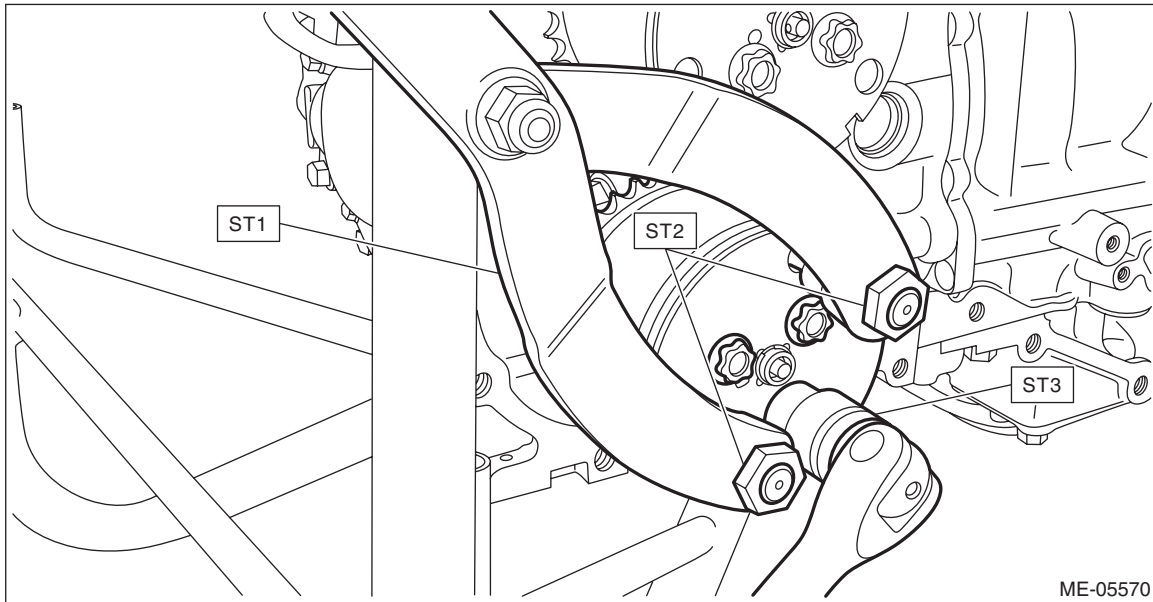
• Exhaust cam sprocket RH

- 1) Remove the chain cover. <Ref. to ME(H4DO(w/o HEV))-149, REMOVAL, Chain Cover.>
- 2) Remove the timing chain RH. <Ref. to ME(H4DO(w/o HEV))-169, TIMING CHAIN RH, REMOVAL, Timing Chain Assembly.>
- 3) Hold the exhaust cam sprocket RH using the ST1 and ST2, and remove the bolts using the ST3.

CAUTION:

For gasoline engine models, perform the operation carefully since the ST comes off easily.

ST1	18355AA000	PULLEY WRENCH
ST2	18334AA020	PULLEY WRENCH PIN SET (gasoline engine model)
ST2	18334AA030	PULLEY WRENCH PIN SET (HEV model)
ST3	18270KA010	SOCKET



- 4) Remove the exhaust cam sprocket RH.

2. CAM SPROCKET LH

NOTE:

When replacing a single part, perform the work with the engine assembly installed to body.

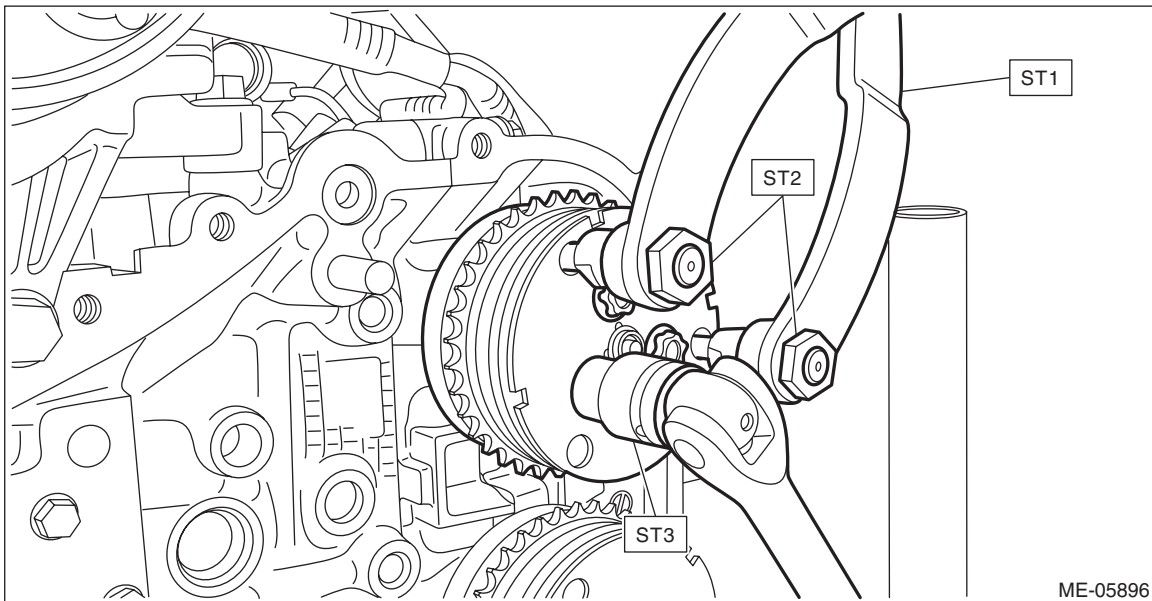
• Intake cam sprocket LH

- 1) Remove the chain cover. <Ref. to ME(H4DO(w/o HEV))-149, REMOVAL, Chain Cover.>
- 2) Remove the timing chain LH. <Ref. to ME(H4DO(w/o HEV))-171, TIMING CHAIN LH, REMOVAL, Timing Chain Assembly.>
- 3) Hold the intake cam sprocket LH using the ST1 and ST2, and remove the bolts using the ST3.

CAUTION:

For gasoline engine models, perform the operation carefully since the ST comes off easily.

ST1	18355AA000	PULLEY WRENCH
ST2	18334AA020	PULLEY WRENCH PIN SET (gasoline engine model)
ST2	18334AA030	PULLEY WRENCH PIN SET (HEV model)
ST3	18270KA010	SOCKET



- 4) Remove the intake cam sprocket LH.

Cam Sprocket

MECHANICAL

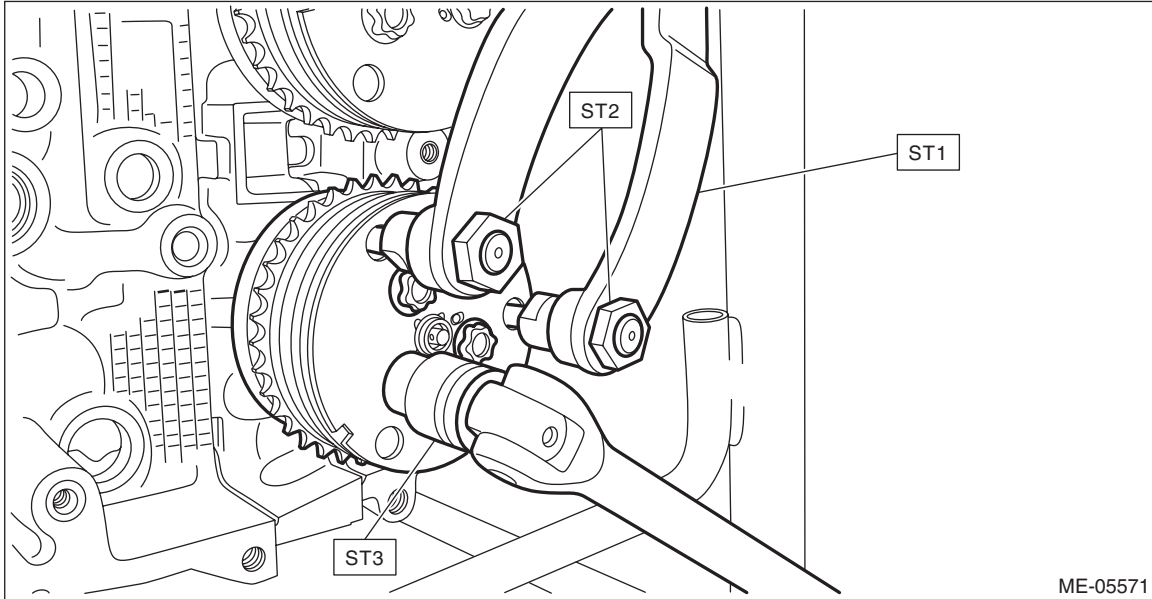
• Exhaust cam sprocket LH

- 1) Remove the chain cover. <Ref. to ME(H4DO(w/o HEV))-149, REMOVAL, Chain Cover.>
- 2) Remove the timing chain LH. <Ref. to ME(H4DO(w/o HEV))-171, TIMING CHAIN LH, REMOVAL, Timing Chain Assembly.>
- 3) Hold the exhaust cam sprocket LH using the ST1 and ST2, and remove the bolts using the ST3.

CAUTION:

For gasoline engine models, perform the operation carefully since the ST comes off easily.

ST1	18355AA000	PULLEY WRENCH
ST2	18334AA020	PULLEY WRENCH PIN SET (gasoline engine model)
ST2	18334AA030	PULLEY WRENCH PIN SET (HEV model)
ST3	18270KA010	SOCKET



- 4) Remove the exhaust cam sprocket LH.

B: INSTALLATION

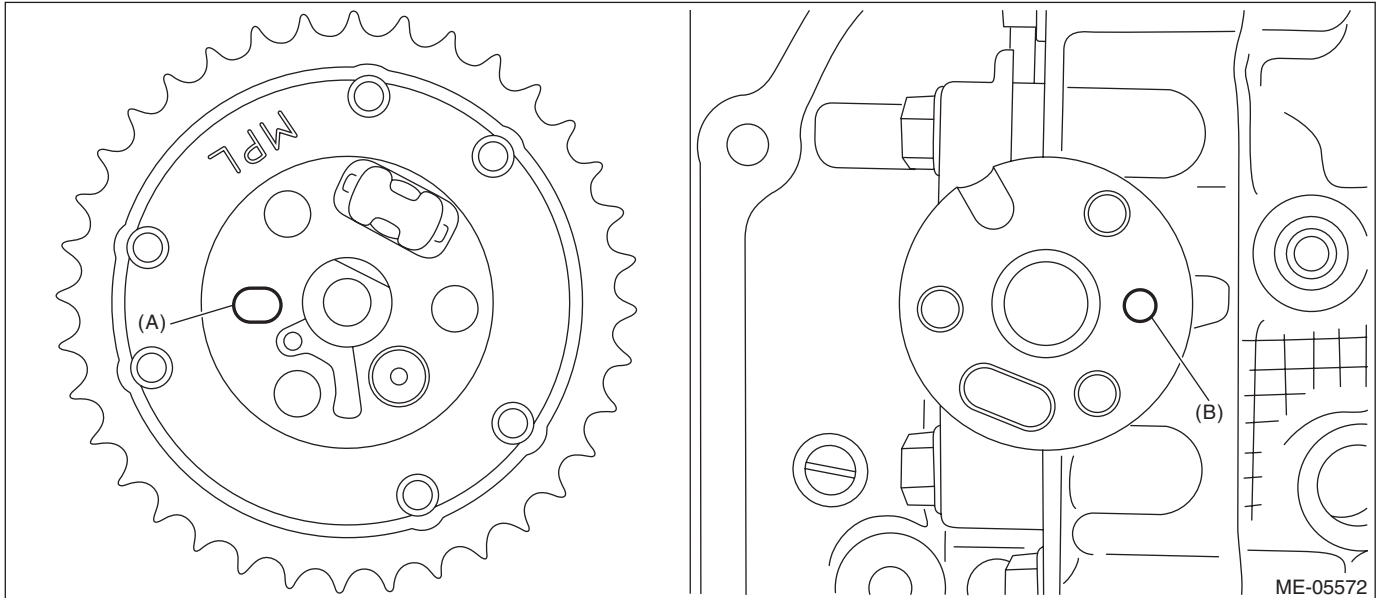
1. CAM SPROCKET RH

- Intake cam sprocket RH

1) Install the intake cam sprocket RH by aligning the knock hole (A) of intake cam sprocket RH and the knock pin (B) of intake camshaft RH.

NOTE:

Before installation, check that there is no foreign matter on the intake cam sprocket RH and intake camshaft RH.



Cam Sprocket

MECHANICAL

2) Hold the intake cam sprocket RH using the ST1 and ST2, and install the bolts using the ST3.

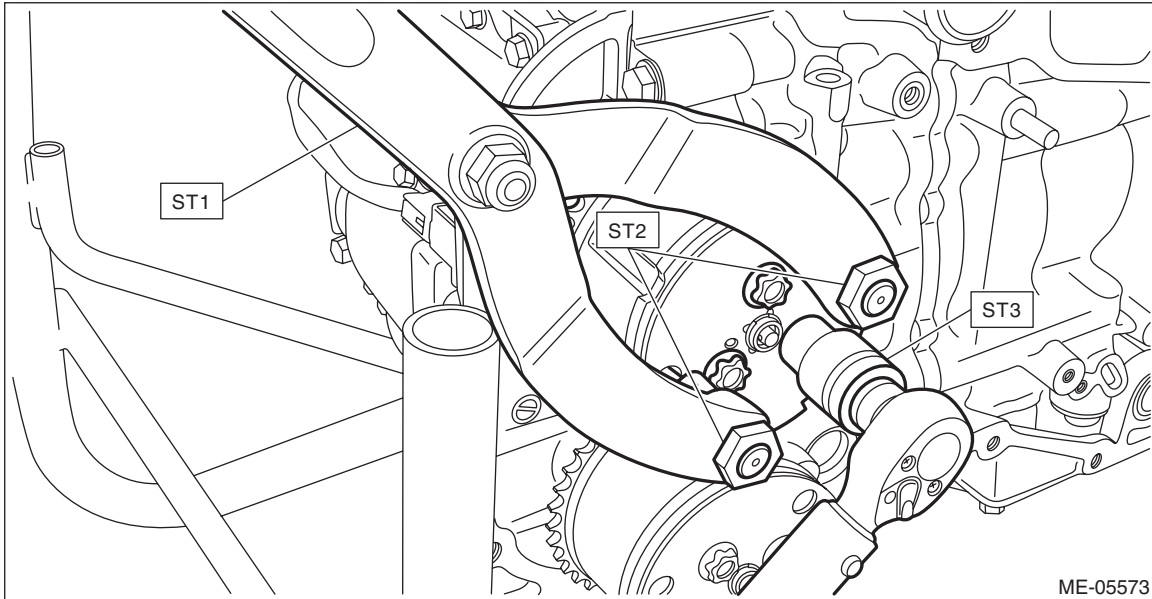
CAUTION:

For gasoline engine models, perform the operation carefully since the ST comes off easily.

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ST2	18334AA020	PULLEY WRENCH PIN SET (gasoline engine model)
ST2	18334AA030	PULLEY WRENCH PIN SET (HEV model)
ST3	18270KA010	SOCKET

Tightening torque:

18 N·m (1.8 kgf-m, 13.3 ft-lb)



3) Install the timing chain RH. <Ref. to ME(H4DO(w/o HEV))-184, TIMING CHAIN RH, INSTALLATION, Timing Chain Assembly.>

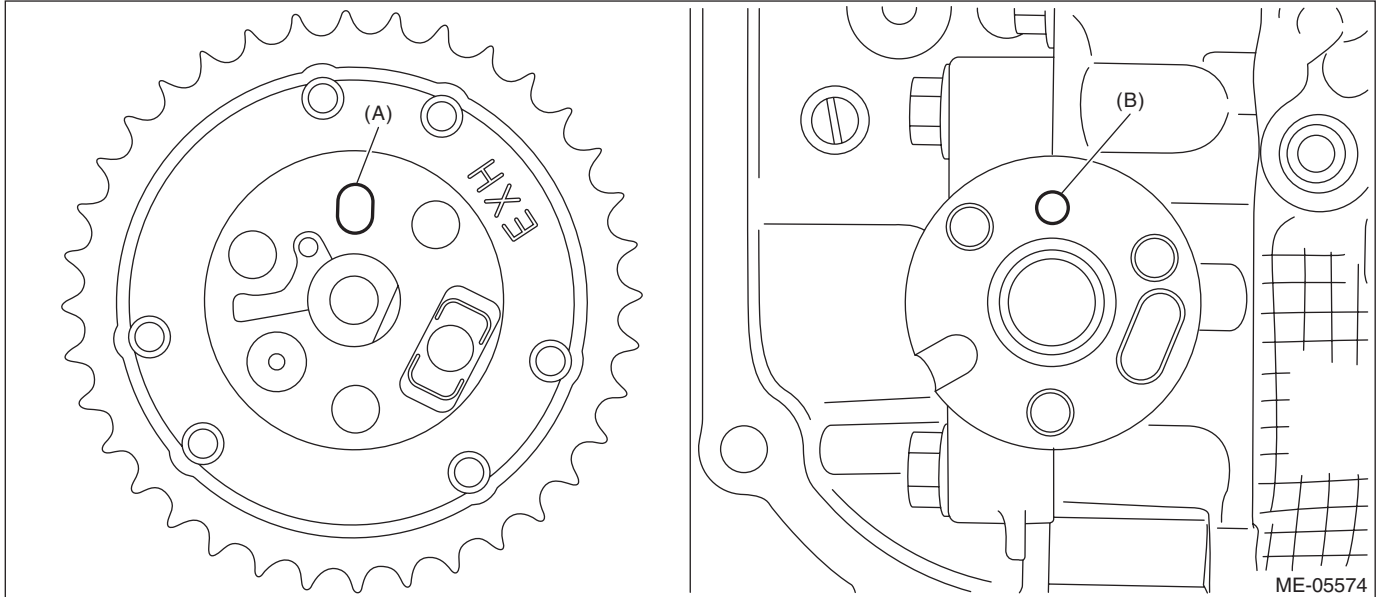
4) Install the chain cover. <Ref. to ME(H4DO(w/o HEV))-156, INSTALLATION, Chain Cover.>

• Exhaust cam sprocket RH

1) Install the exhaust cam sprocket RH by aligning the knock hole (A) of exhaust cam sprocket RH and the knock pin (B) of exhaust camshaft RH.

NOTE:

Before installation, check that there is no foreign matter on the exhaust cam sprocket RH and exhaust camshaft RH.



2) Hold the exhaust cam sprocket RH using ST1 and ST2, and install the bolts using ST3.

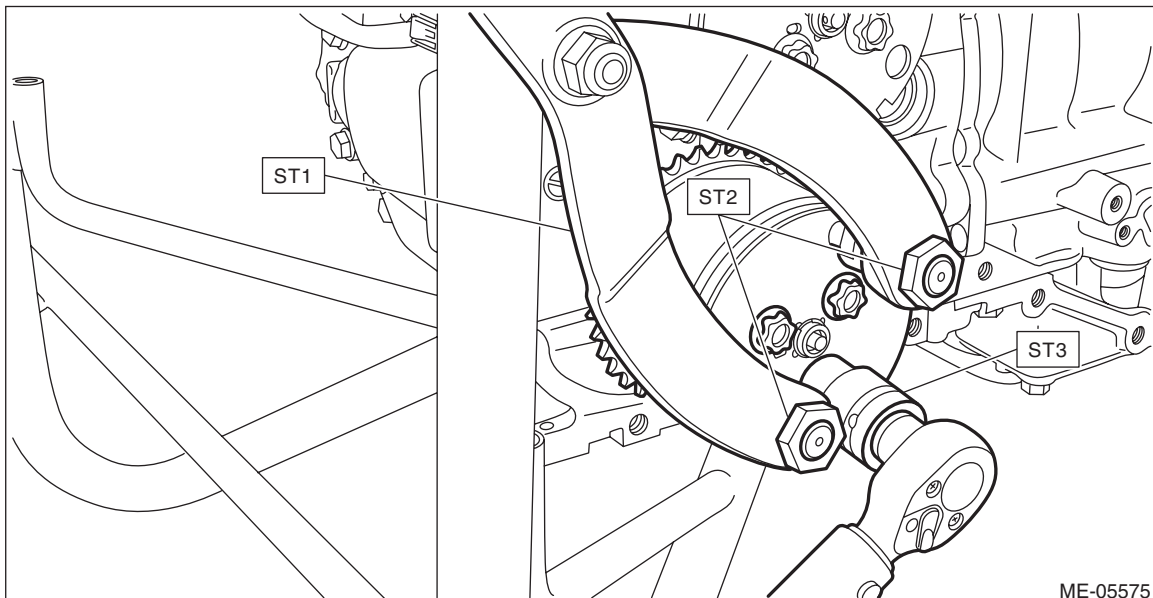
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ST2	18334AA020	PULLEY WRENCH PIN SET (gasoline engine model)
ST2	18334AA030	PULLEY WRENCH PIN SET (HEV model)
ST3	18270KA010	SOCKET

Tightening torque:

18 N·m (1.8 kgf-m, 13.3 ft-lb)



3) Install the timing chain RH. <Ref. to ME(H4DO(w/o HEV))-184, TIMING CHAIN RH, INSTALLATION, Timing Chain Assembly.>

Cam Sprocket

MECHANICAL

4) Install the chain cover. <Ref. to ME(H4DO(w/o HEV))-156, INSTALLATION, Chain Cover.>

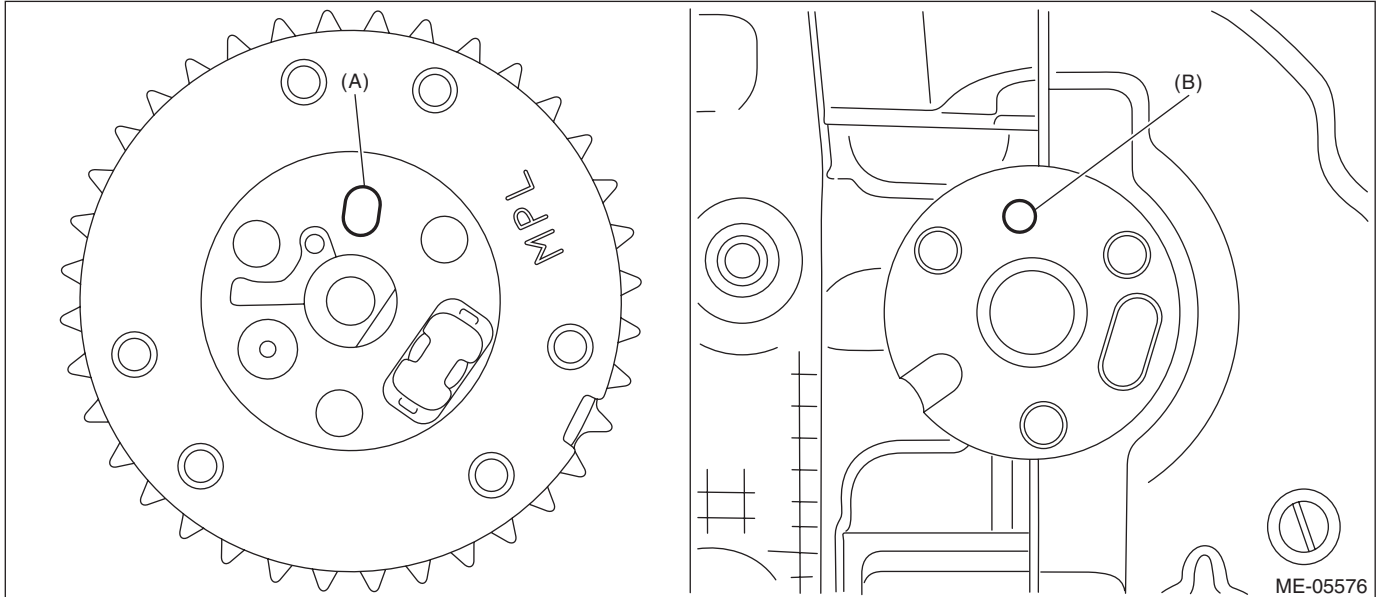
2. CAM SPROCKET LH

• Intake cam sprocket LH

1) Install the intake cam sprocket LH by aligning the knock hole (A) of intake cam sprocket LH and the knock pin (B) of intake camshaft LH.

NOTE:

Before installation, check that there is no foreign matter on the intake cam sprocket LH and intake camshaft LH.



2) Hold the intake cam sprocket LH using the ST1 and ST2, and install the bolts using the ST3.

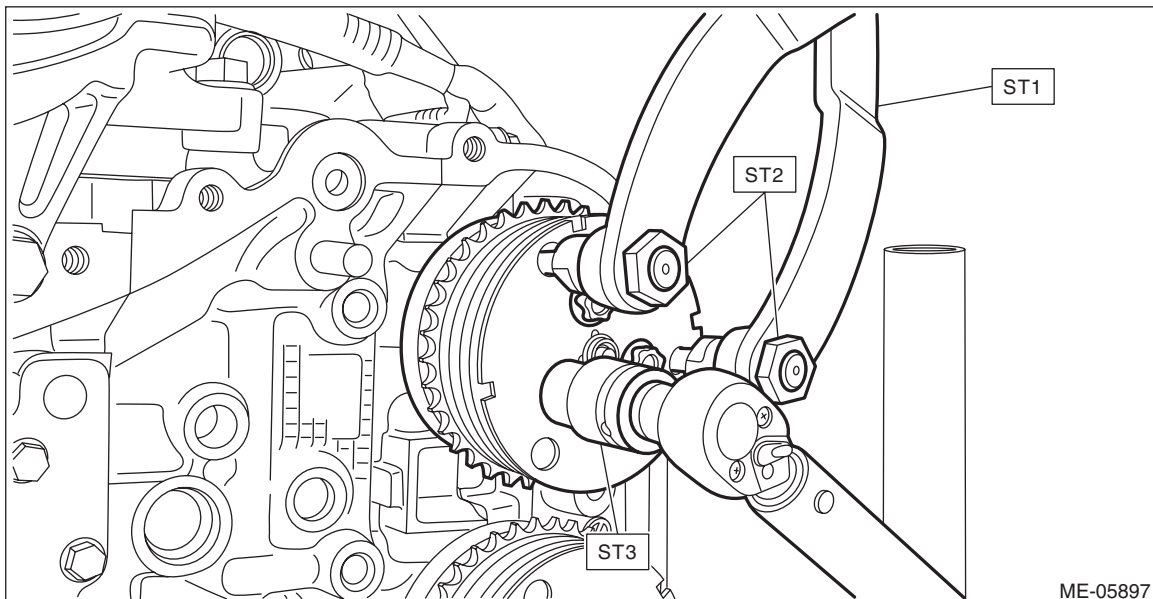
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ST2	18334AA030	PULLEY WRENCH PIN SET (HEV model)
ST3	18270KA010	SOCKET

Tightening torque:

18 N·m (1.8 kgf·m, 13.3 ft·lb)



3) Install timing chain LH. <Ref. to ME(H4DO(w/o HEV))-176, TIMING CHAIN LH, INSTALLATION, Timing Chain Assembly.>

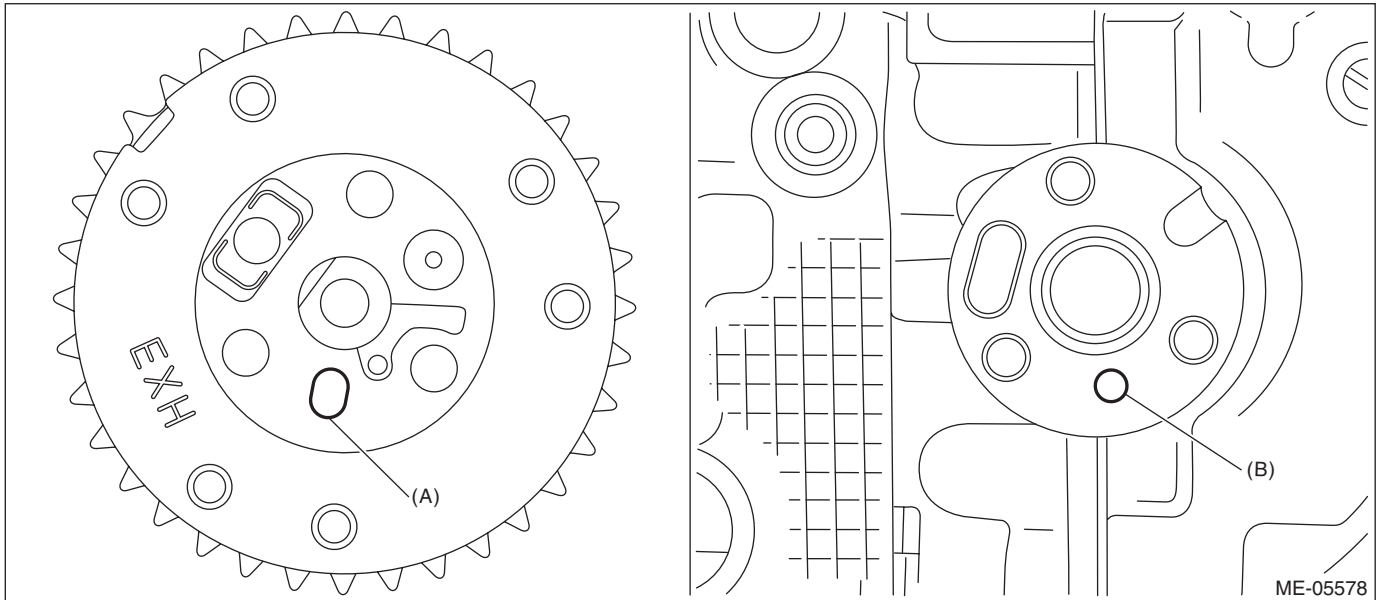
4) Install the chain cover. <Ref. to ME(H4DO(w/o HEV))-156, INSTALLATION, Chain Cover.>

• Exhaust cam sprocket LH

1) Install the exhaust cam sprocket LH by aligning the knock hole (A) of exhaust cam sprocket LH and the knock pin (B) of exhaust camshaft LH.

NOTE:

Before installation, check that there is no foreign matter on the exhaust cam sprocket LH and exhaust camshaft LH.



Cam Sprocket

MECHANICAL

2) Hold the exhaust cam sprocket LH using the ST1 and ST2, and install the bolts using the ST3.

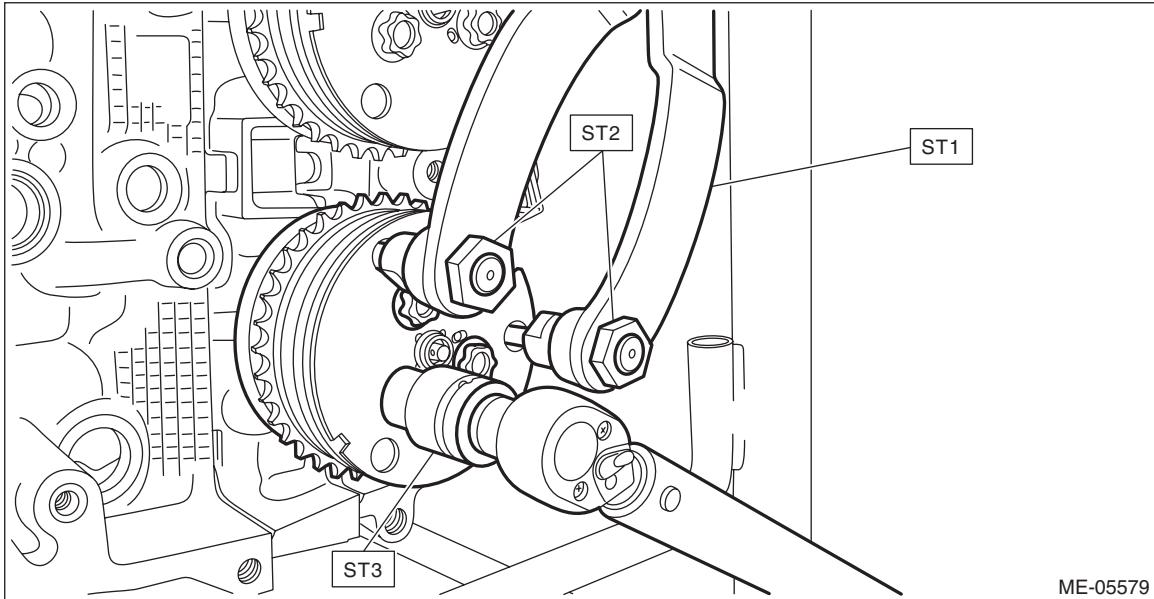
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ST3	18270KA010	SOCKET

Tightening torque:

18 N·m (1.8 kgf-m, 13.3 ft-lb)



3) Install timing chain LH. <Ref. to ME(H4DO(w/o HEV))-176, TIMING CHAIN LH, INSTALLATION, Timing Chain Assembly.>

4) Install the chain cover. <Ref. to ME(H4DO(w/o HEV))-156, INSTALLATION, Chain Cover.>

C: INSPECTION

Check the cam sprocket teeth for abnormal wear and scratches.