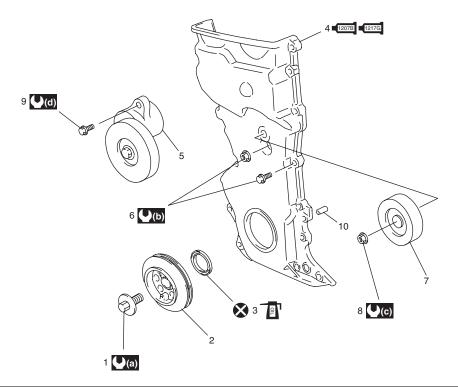
## **Timing Chain Cover Components**

S6RW0C1406015



I7RW01140039-01

1.	Crankshaft pulley bolt	Timing chain cover bolt and nut	<b>(</b> (a):	150 N·m (15.0 kgf-m, 108.5 lb-ft)
2.	Crankshaft pulley	7. Idler pulley	<b>(</b> (b) :	11 N·m (1.1 kgf-m, 8.0 lb-ft)
3.	Oil seal : Apply engine oil to oil seal lip.	8. Idler pulley nut	<b>(</b> (c) :	42 N·m (4.2 kgf-m, 30.5 lb-ft)
<b>■1207B ■1217G</b> 4.	Timing chain cover : See "A" : See "B"	Generator belt tensioner bolt	<b>(</b> (d) :	25 N·m (2.5 kgf-m, 18.0 lb-ft)
5.	Generator belt tensioner	10. Pin	<b>⊗</b> :	Do not reuse.
"A":	Apply sealant 99000-31140 to the mating surface of cylinder and cylinder head.			
"B":	Apply sealant 99000-31260 to the mating surface of timing chain cover referring to the figure of Step 3) of "Installation" under "Timing Chain Cover Removal and Installation".			

## Timing Chain Cover Removal and Installation

S6RW0C1406016

#### Removal

- 1) Remove engine assembly from vehicle referring to "Engine Assembly Removal and Installation".
- 2) Remove oil pan referring to "Oil Pan and Oil Pump Strainer Removal and Installation in Section 1E".
- 3) Remove cylinder head cover referring to "Cylinder Head Cover Removal and Installation".
- 4) Remove crankshaft pulley bolt.

  To lock crankshaft pulley (1), use special tool (camshaft pulley holder) as shown in figure.

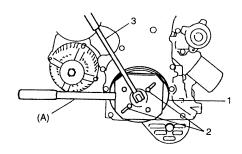
Special tool (A): 09917-68221

## **NOTE**

Be sure to use the following bolts instead of pins in order to fix crankshaft pulley by special tool.

Bolt size: M8, P1.25 L = 25 mm (0.98 in.)

Strength: 7T



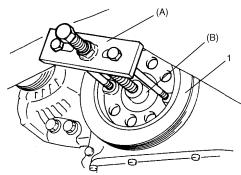
I2RH01140051-01

2. Bolt	3. Wrench

5) Remove crankshaft pulley (1).
To remove crankshaft pulley, use special tools
(Steering wheel remover, Bearing puller attachment)
with it as shown in figure.

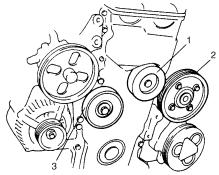
## Special tool

(A): 09944-36011 (B): 09926-58010



I2RH01140052-01

6) Remove idler pulley (1), water pump pulley (2) and belt tensioner (3).



I2RH01140054-01

- 7) Remove timing chain cover bolts (2) and nut (1).
- 8) Remove timing chain cover (3).



I7RW01140041-01

## Installation

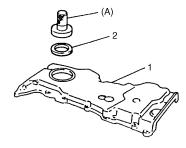
- Clean sealing surfaces on timing chain cover, cylinder block and cylinder head.
   Remove oil, old sealant and dust from sealing surface.
- 2) Install new oil seal (2) to timing chain cover using special tool, if removed.

### **NOTE**

When installing new oil seal (2), drive it until its surface is flash with edge of timing chain cover (1).

Special tool

(A): 09913-75510



I2RH01140061-01

3) Apply sealant "A" and "B" to specific area as shown in figure.

"A": Sealant 99000-31260 (SUZUKI Bond No.1217G)

"B": Water tight sealant 99000-31140 (SUZUKI Bond No.1207B)

### Sealant amount for timing chain cover

"a": 3 mm (0.12 in.)

"b": 2 mm (0.08 in.)

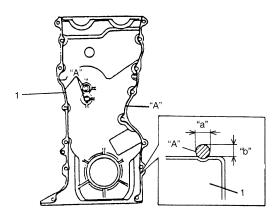
"c": 4 mm (0.16 in.)

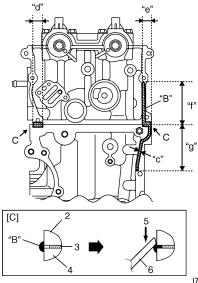
"d": 16 mm (0.63 in.)

"e": 14 mm (0.55 in.)

"f": 65 mm (2.56 in.)

"g": 73 mm (2.87 in.)





I7RW01140045-01

Timing chain cover	5. Rub into
Cylinder head	6. Jig
Cylinder head gasket	[C]: View C
Cylinder block	

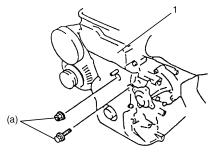
4) Apply engine oil to oil seal lip, then install timing chain cover (1). Tighten bolts and nut to specified torque.

### **NOTE**

Before installing timing chain cover, check that pin is securely fitted.

**Tightening torque** 

Timing chain cover bolt and nut (a): 11 N⋅m (1.1 kgf-m, 8.0 lb-ft)



I2RH01140057-01

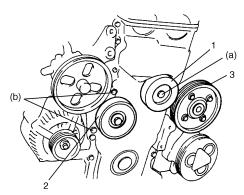
5) Install belt idler pulley (1). Tighten nut to specified torque.

Tightening torque Idler pulley nut (a): 42 N·m (4.2 kgf-m, 30.5 lb-ft)

6) Install belt tensioner (2). Tighten bolts to specified torque.

Tightening torque Generator belt tensioner bolt (b): 25 N⋅m (2.5 kgf-m, 18.5 lb-ft)

7) Install water pump pulley (3).



I2RH01140058-01

- 8) Install cylinder head cover referring to "Cylinder Head Cover Removal and Installation".
- Install oil pan. Refer to "Oil Pan and Oil Pump Strainer Removal and Installation in Section 1E" for installation.
- 10) Install crankshaft pulley. To lock crankshaft pulley(1), use special tool (camshaft pulley holder) as shown in figure.

Special tool

(A): 09917-68221

### **NOTE**

Be sure to use the following bolts instead of pins in order to fix crank pulley by special

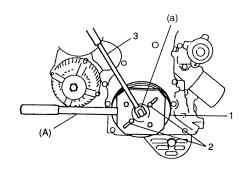
Bolt size: M8, P1.25 L = 25 mm (0.98 in.)

Strength: 7T

**Tightening torque** 

Crankshaft pulley bolt (a): 150 N·m (15.0 kgf-m,

108.5 lb-ft)



I2RH01140060-01

2. Bolt	3. Wrench

11) Install engine assembly to vehicle referring to "Engine Assembly Removal and Installation".

## **Timing Chain Cover Cleaning and Inspection**

S6RW0C1406017

#### Clean

Clean sealing surface on timing chain cover, crank case, cylinder block and cylinder head.

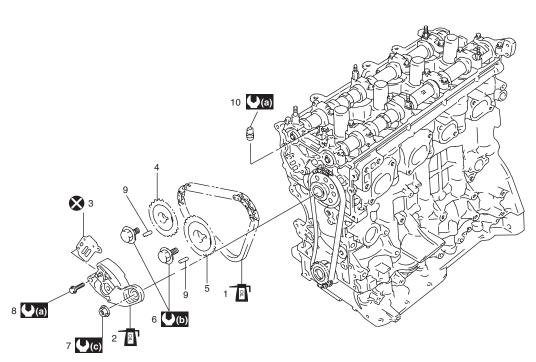
Remove oil, old sealant, and dust from sealing surface.

### Inspection

Check oil seal lip for fault or other damage. Replace as necessary.

# **2nd Timing Chain and Chain Tensioner Components**

S6RW0C1406018



I7RW01140049-01

	2nd timing chain : Apply engine oil	Camshaft timing sprocket bolt	<b>(a)</b> : 11 N⋅m (1.1 kgf-m, 8.0 lb-ft)
2.	Timing chain tensioner adjuster No.2 : Apply engine oil to sliding surface.	7. Timing chain tensioner adjuster No.2 nut	<b>(L)</b> : 80 N·m (8.0 kgf-m, 58.0 lb-ft)
3.	Tensioner adjuster No.2 gasket	Timing chain tensioner adjuster No.2 bolt	(4.5 kgf-m, 32.5 lb-ft)
4.	Intake camshaft timing sprocket	9. Knock pin	🗴 : Do not reuse.
5.	Exhaust camshaft timing sprocket	10. Oil relief valve	