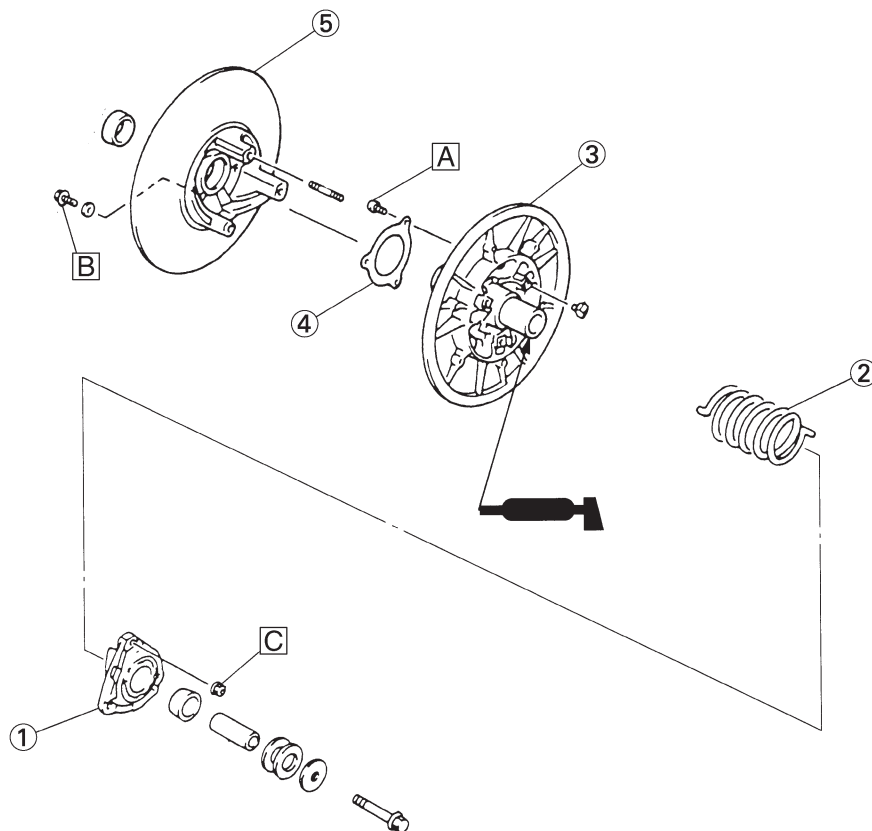



- A :

7 Nm (0.7 m•kg, 5.1 ft•lb)
- B :

10 Nm (1.0 m•kg, 7.2 ft•lb)
- C :

23 Nm (2.3 m•kg, 17 ft•lb)



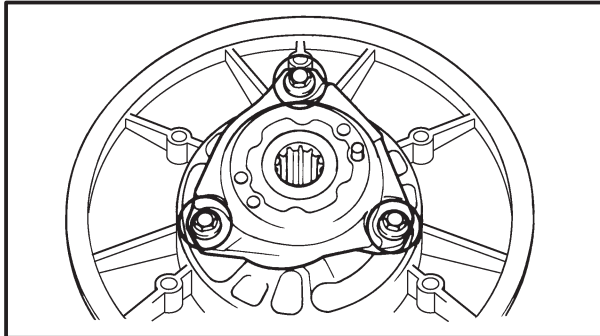
 : ① ESSO beacon 325 grease or Aeroshell grease #7A

Order	Job name/Part name	Q'ty	Remarks
	<b>Secondary sheave disassembly</b>		Remove the parts in the order listed below.
①	Spring seat	1	
②	Secondary sheave spring	1	
③	Fixed sheave	1	
④	Stopper	1	
⑤	Sliding sheave	1	
			For assembly, reverse the disassembly procedure.

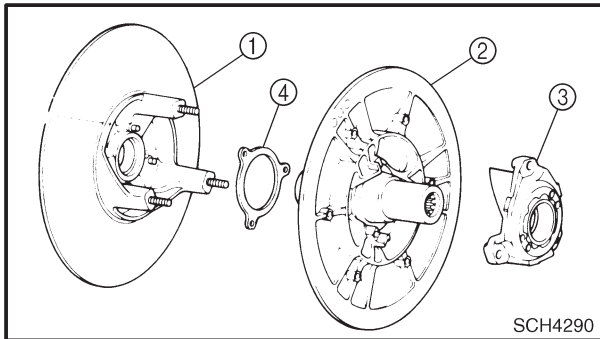
## DISASSEMBLY

### **WARNING**

- Use extreme **CAUTION** when disassembling the secondary sheave since serious injury can occur due to the sudden release of spring tension. Use the sheave compressor to contain the spring tension before removing the nuts (spring seat).
- Do not attempt this procedure unless you have the proper tools and understand the instructions thoroughly.

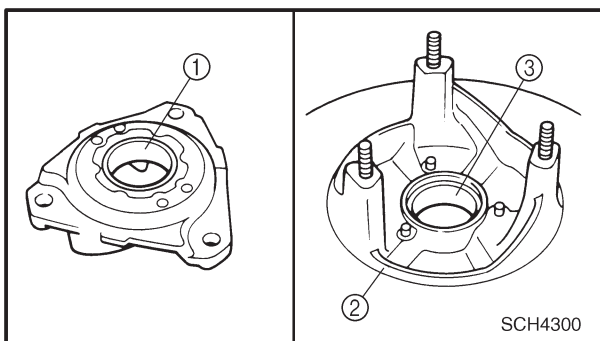


1. Remove:
  - Nuts (spring seat)

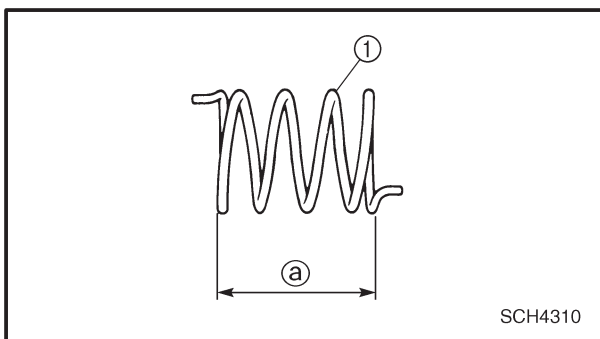


## INSPECTION

1. Inspect:
  - Sliding sheave ①
  - Fixed sheave ②
  - Spring seat ③  
Cracks/damage → Replace.
  - Stopper ④  
Wear/damage → Replace.
2. Inspect:
  - Bushing (spring seat) ①
  - Sliding sheave (V-belt contact surface) ②  
Scratches/wear/damage → Replace.
  - Sliding bushing ③  
Unsymmetrical wear/damage → Replace.

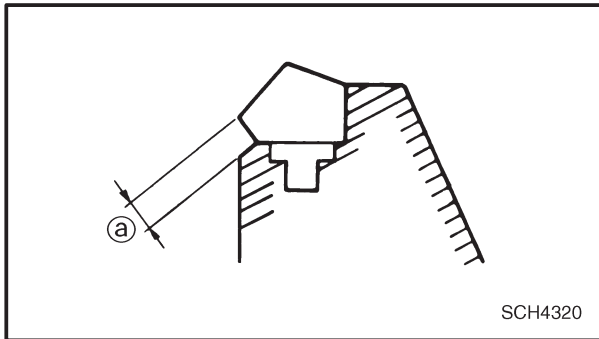


3. Inspect:
  - Secondary sheave spring ①  
Cracks/damage → Replace.
4. Measure:
  - Secondary sheave spring free length ①  
Below specification → Replace the secondary sheave spring.



**Free length:**  
**75 mm (2.95 in)**

## SECONDARY SHEAVE



### 5. Measure:

- Ramp shoe thickness (a)

Out of specification → Replace the ramp shoe.



**Wear limit:**  
1.0 mm (0.04 in)

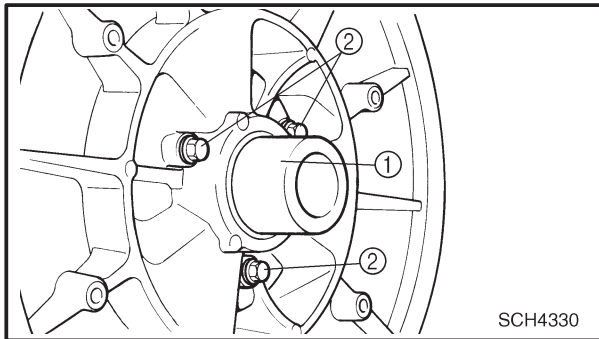
## ASSEMBLY

### 1. Install:

- Stopper
- Sliding sheave



**Screw (stopper):**  
7 Nm (0.7 m•kg, 5.1 ft•lb)

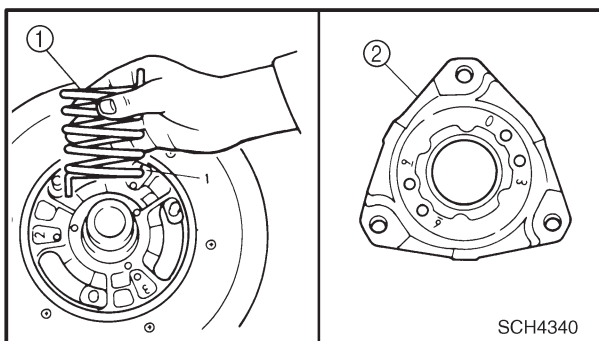


### 2. Install:

- Fixed sheave (1)
- Bolts (2)  
(along with the shims)



**Bolt:**  
10 Nm (1.0 m•kg, 7.2 ft•lb)



### 3. Install:

- Secondary sheave spring (1)
- Spring seat (2)

### NOTE:

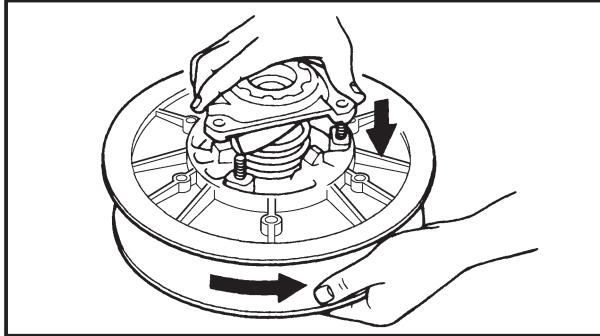
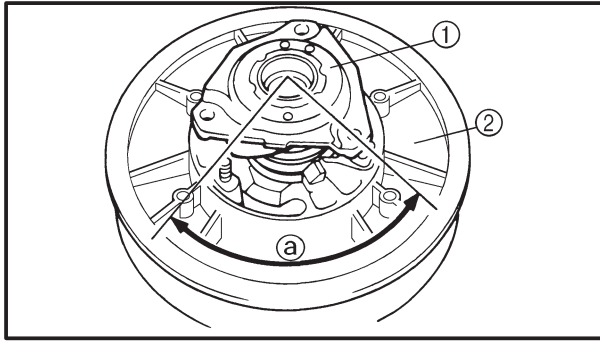
Hook the end of the secondary sheave spring into the spring holes in the fixed sheave. Hook the other end of the spring into the holes in the spring seat.

### Standard spring position:

3-3 (RX10, RX10S, RX10R, RX10RS)

1-6 (RX10M, RX10MS)

## SECONDARY SHEAVE



### Installation steps:

- Hold the spring seat ① and turn the fixed sheave ② counterclockwise to the specified angle (a).

### NOTE:

The holes in the spring seat should align with the bolts on the sliding sheave.

$$a = (\text{sheave hole number} + \text{spring seat hole number}) \times 10$$



### Twist angle:

60° (RX10, RX10S, RX10R, RX10RS)

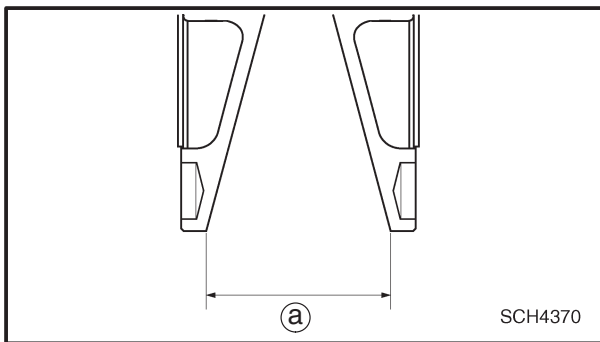
70° (RX10M, RX10MS)

- Push down on the spring seat until the bolts come through the holes.
- While pushing down on the spring seat, install the nuts and tighten them to the specified torque.



### Nut (spring seat):

23 Nm (2.3 m•kg, 17 ft•lb)



SCH4370

### 4. Measure:

- Secondary sheave clearance (a)  
Out of specification → Adjust.



### Secondary sheave clearance:

35.0 ~ 35.8 mm

(1.38 ~ 1.41 in)

### 5. Calculate:

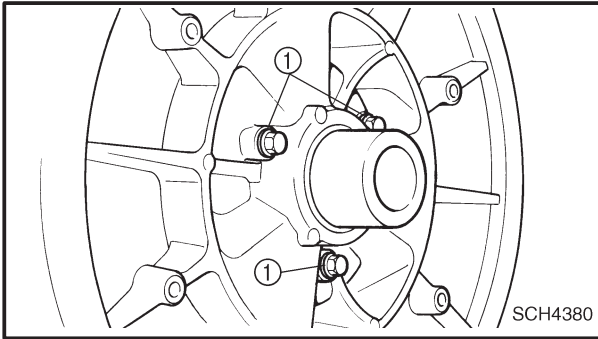
- Shim thickness

### NOTE:

For example, if the clearance is 36 mm (1.42 in), install a 0.5 mm (0.02 in) shim on each bolt so the clearance is 35.5 mm (1.40 in).

### 6. Adjust:

- Secondary sheave clearance



## Adjustment steps:

- Disassemble the secondary sheave.
- Remove the bolts and original shims ①.
- Install new shims of the proper thickness and reassemble the secondary sheave.
- Measure the secondary sheave clearance again.  
Repeat these steps until the clearance is within specification.

## NOTE:


Yamaha recommends keeping the original shims.

## Shims:

Part number	Thickness
90201-061H1	0.5 mm (0.02 in)
90201-06037	1.0 mm (0.04 in)


## INSTALLATION

1. Lubricate:
  - Splines (fixed sheave)



**Recommended grease:**  
**ESSO beacon 325 grease or**  
**Aeroshell grease #7A**

2. Tighten:



**Secondary sheave bolt:**  
**64 Nm (6.4 m•kg, 46 ft•lb)**

3. Adjust:
  - V-belt position  
Refer to “DRIVE V-BELT” in CHAPTER 2.
  - Sheave offset
  - Secondary sheave free play (clearance)  
Refer to “SHEAVE DISTANCE AND OFF-SET ADJUSTMENT” in CHAPTER 2.