

**DRIVE BELT****REMOVAL**

Spread the movable driven face by screwing a  $10 \times 1.25$  mm bolt into the fixed driven face at least 30 mm (1.2 in). Slide the loosened drive belt off of the belt converter.

**INSPECTION**

Refer to page 3-8.

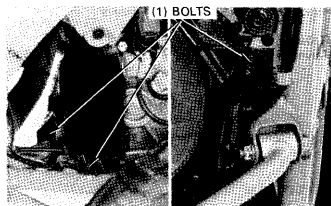
**INSTALLATION**

Installation is the reverse order of removal.

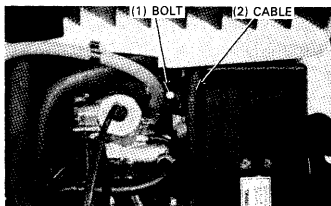
**DRIVE BELT COVER****REMOVAL**

Remove the battery (page 17-4).

Remove the drive belt cover bolts.



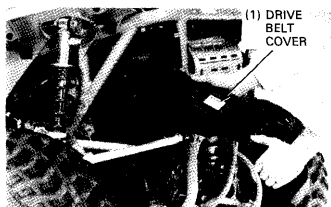
Remove the upper cover bolt then slide the starter cable from the cover.



Pull the belt cover out from the frame pipes as shown.

**INSTALLATION**

Install the drive belt cover in the reverse order of removal.



## BELT CONVERTER

### DRIVE PULLEY

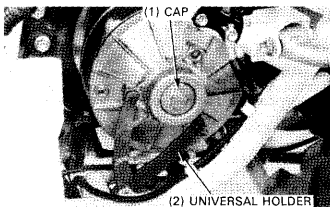
#### REMOVAL

Remove the drive belt and cover (page 10-2).

Remove the movable drive face cover cap by holding the drive pulley.

#### TOOL:

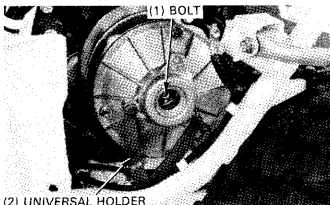
Universal holder **07725-003000**



Remove the drive pulley bolt and washer.

#### TOOL:

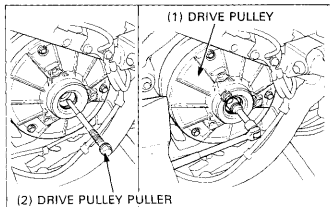
Universal holder **07725-003000**



Insert the special tool into the threaded bore and turn the tool clockwise until the drive pulley separates from the crankshaft.

#### TOOL:

Drive pulley puller **07KMC-HE00200**



#### DISASSEMBLY

Set the special tool and attachments.

#### TOOLS:

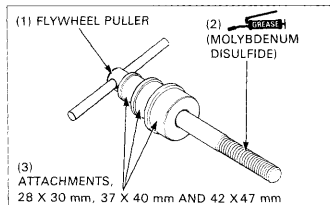
Flywheel puller **07933-2000000**

Attachment, 28 × 30 mm **07946-1870100**

Attachment, 37 × 40 mm **07746-0010200**

Attachment, 42 × 47 mm **07746-0010300**

Apply molybdenum disulfide grease to the threads of the special tool.



## NOTE

- Mark the cover and movable drive face to indicate their original positions before removing the cover.

Insert the special tool into the threaded bore with attachments stacked as shown.

Thread the special tool in all the way until it seats.

Remove the movable drive face cover bolts.

## ▲WARNING

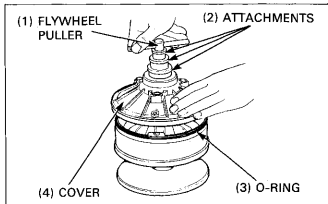
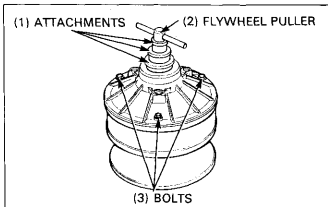
- *The movable drive face cover is under spring tension that can cause injury.*
- *Be sure to use the special tool, as described in this following procedure, to avoid injury.*

Loosen the special tool by turning it 3 to 5 turns counterclockwise.

Tap the outside edge of the movable drive face cover with a plastic hammer or mallet until it pops off and away from the assembly from the spring tension.

Continue turning the tool counterclockwise gradually while pushing down on the cover and remove the tools and drive face cover.

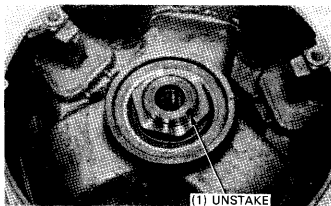
Remove the O-ring and drive pulley spring.



Unstake the spider plate nut.

## ▲WARNING

- *Use adequate eye protection.*

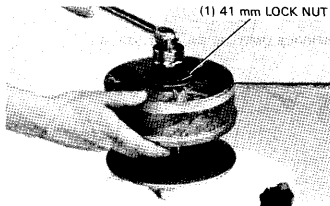


## NOTE

- Mark the spider plate, side pieces and movable drive face to indicate their original positions before removing the spider plate.

Hold the fixed drive face in a vise with soft jaws or a shop towel.

Remove the spider plate nut.



## BELT CONVERTER

With the special tool installed into the hub (at least 15 threads), strike the top of tool with rawhide, brass or lead hammer as shown, then remove the spider plate.

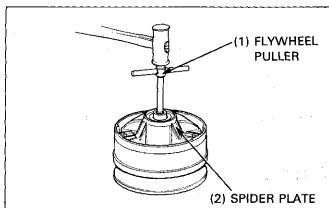
### TOOL:

Flywheel puller

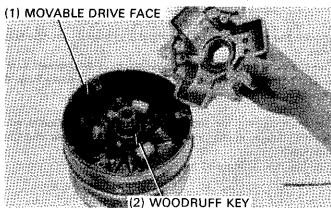
07933-2000000

### CAUTION

- This operation should be performed one or two inches above a wooden bench or similar soft surface to prevent the possibility of damage to the unit.



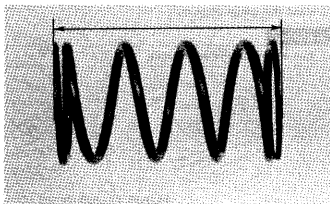
Remove the woodruff key and movable drive face.



### INSPECTION

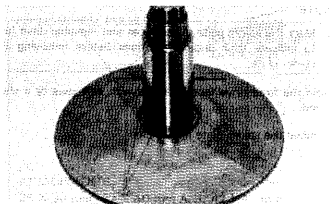
Measure the drive pulley spring free length.

**SERVICE LIMIT: 95.0 mm (3.74 in)**



Measure the fixed face O.D.

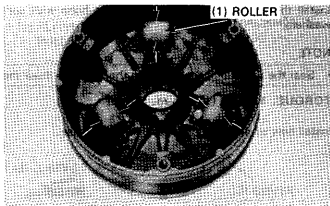
**SERVICE LIMIT: 39.94 mm (1.572 in)**



Check that the weight rollers for smooth operation and for roughness on the sliding surface.

Measure each weight roller O.D.

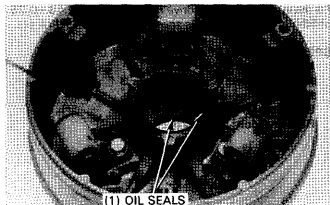
**SERVICE LIMIT: 18.0 mm (0.71 in)**



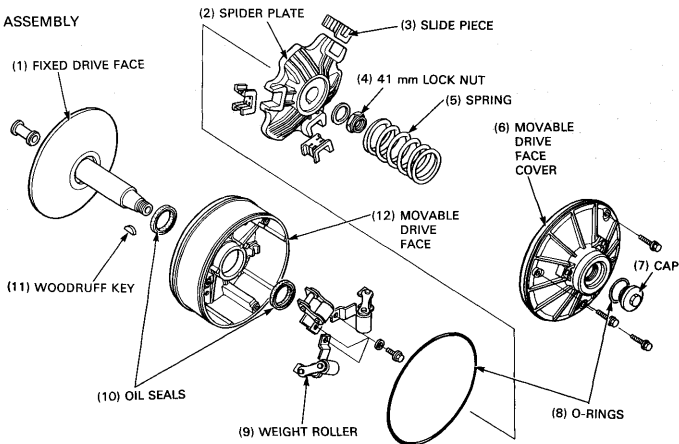
Remove the oil seals.

Measure the movable drive face I.D.

**SERVICE LIMIT: 40.07 mm (1.578 in)**



**ASSEMBLY**



## BELT CONVERTER

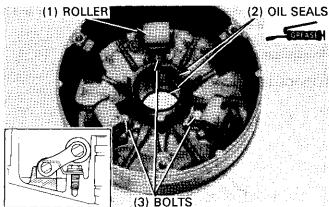
Install the weight rollers and tighten the bolts with spring washers.

### NOTE

- Seat the flat side of the rollers on the movable drive face.

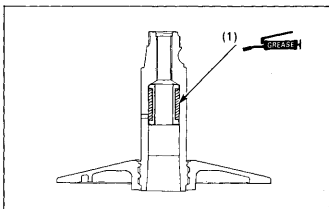
**TORQUE: 12 N·m (1.2 kg-m, 9 ft-lb)**

Install new oil seals and fill their lips with grease.



Fill the inside of the fixed drive face with 5-7 g (0.18-0.25 oz) of lithium based grease as shown.

**SPECIFIED GREASE: Lithium Based Grease**  
Mitsubishi HD-3  
Nippon Sekiyu Lipanox Deluxe 3  
Idemitsu Coronex 3  
Sta-Lube MP #3141  
Bel-Ray Moly Lube 126 EP#0



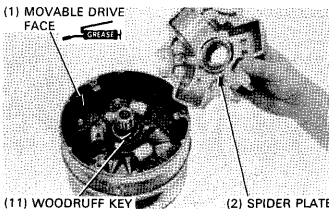
Install the movable drive face on the fixed drive face.

Fill the inside of the movable drive face with 280-300 g (9.9-10.6 oz) of lithium based grease as shown.

**SPECIFIED GREASE: Lithium Based Grease**  
Mitsubishi HD-3  
Nippon Sekiyu Lipanox Deluxe 3  
Idemitsu Coronex 3  
Sta-Lube MP #3141  
Bel-Ray Moly Lube 126 EP#0

Install the woodruff key in the fixed drive face groove.

Install the spider plate aligning its groove with the woodruff key.



### NOTE

- Align the marks on the spider plate and the movable drive face.

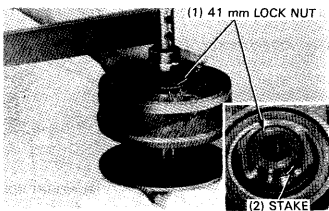
Hold the fixed drive face in a vise with soft jaws or a shop towel.

Apply grease (specified above) or oil to the washer.

Install the washer and new spider plate lock nut and torque it.

**TORQUE: 130 N·m (13.0 kg-m, 94 ft-lb)**

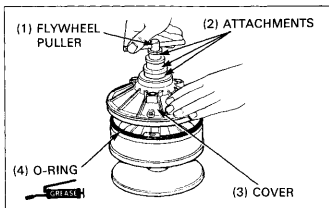
Stake the spider plate nut.



Install the drive pulley spring .  
 Apply grease to a new O-ring.  
 Install the O-ring on the movable drive face.  
 Install the drive pulley spring.  
 Install the movable drive face cover on the spring.  
 Apply molybdenum disulfide grease to the threads of the special tool.  
 Compress the spring with the special tool and the attachments stacked as shown.

**TOOLS:**

<b>Flywheel puller</b>	<b>07933—2000000</b>
<b>Attachment, 28 × 30 mm</b>	<b>07946—1870100</b>
<b>Attachment, 37 × 40 mm</b>	<b>07746—0010200</b>
<b>Attachment, 42 × 47 mm</b>	<b>07746—0010300</b>

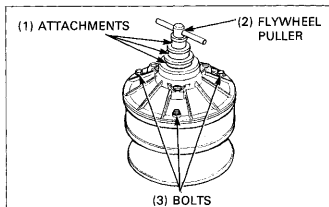

**NOTE**

• Align the mark on the cover and the movable drive face.

Install and tighten the cover bolts aligning the bolt holes.

**TORQUE: 12 N·m (1.2 kg-m, 9 ft-lb)**

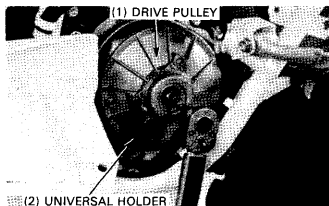
Remove the special tool from the drive pulley.


**INSTALLATION**

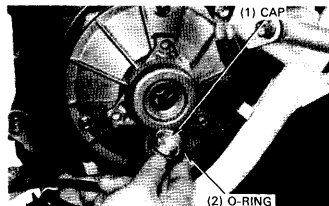
Install the drive pulley on the crankshaft.  
 Tighten the drive pulley bolt with washer by holding the drive pulley.

**TOOL:**  
**Universal holder** **07725—0030000**

**TORQUE: 90 N·m (9.0 kg-m, 65 ft-lb)**



Install a new O-ring on the cover cap and apply a small amount of oil.

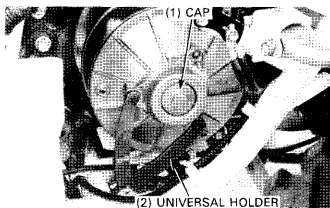


## BELT CONVERTER

Tighten the cover cap with holding the drive pulley.

**TORQUE: 20 N·m (2.0 kg-m, 14 ft-lb)**

Install the drive belt and cover (page 10-3).



## DRIVEN PULLEY

### REMOVAL

Remove the drive belt (page 10-3).

Remove the driven pulley bolt and washer while holding the driven pulley.

### CAUTION

• *Do not hold the driven pulley at the threaded hole.*

### TOOL:

Universal holder **07725-0030000**

Remove the special tool and driven pulley.

### DISASSEMBLY

Place the head of the special tool in a bench vise.  
Place the attachment and driven pulley on the retainer wrench body.

### TOOLS:

Retainer wrench body **07710-0010401**  
Attachment, 24 × 26 mm **07746-0010700**

Place the special tools on the retainer wrench body over the driven pulley so that the cutaway section of the tool exposes the snap ring holes.

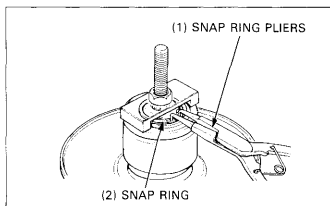
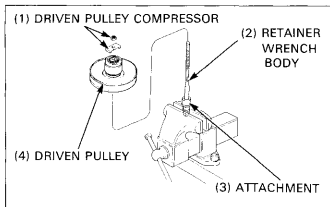
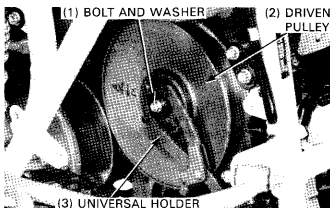
### TOOL:

Driven pulley compressor **07KME-HE0010A**  
(U.S.A. only)

Tighten the nut, to release the pressure on the snap ring and remove the ring.

### TOOL:

Snap ring pliers **07914-5670100**

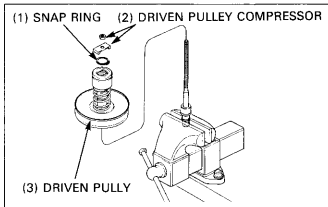




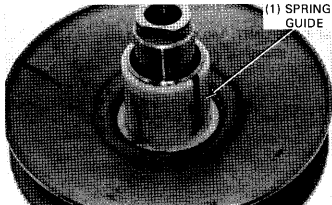
Loosen the nut allowing spring pressure to push the spring seat off the fixed driven face.

Remove the special tools, then the snap ring, spring seat, spring cover and spring.

Remove the driven pulley assembly from the retainer wrench body.

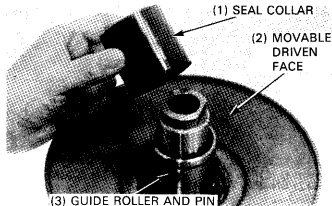


Remove the spring guide.



Remove the following:

- seal collar
- guide rollers with pins
- movable driven face



**INSPECTION**

Measure the fixed driven face O.D.

**SERVICE LIMIT: 39.925 mm (1.5718 in)**

