

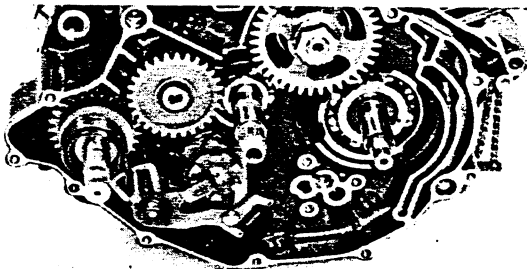
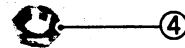
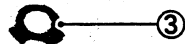
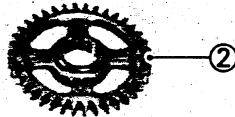
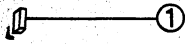
## PRIMARY DRIVE GEAR AND BALANCER GEAR

1. Install:

- Straight key ①
- Balancer driven gear ②
- Lock washer ③
- Nut ④

**WARNING:** \_\_\_\_\_

Always use a new lock washer.



2. Install:

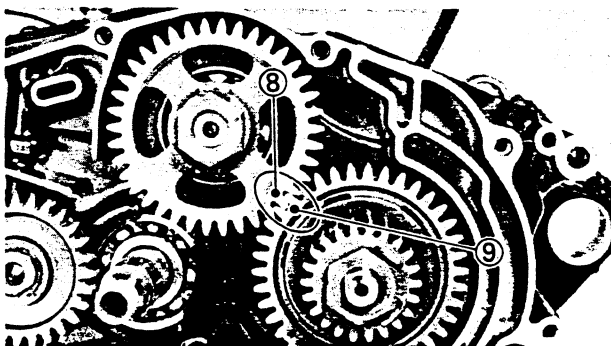
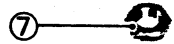
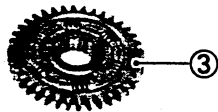
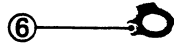
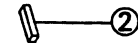
- Special washer ①
- Straight key ②
- Balancer drive gear ③
- Special washer ④
- Primary drive gear ⑤
- Lock washer ⑥
- Nut ⑦

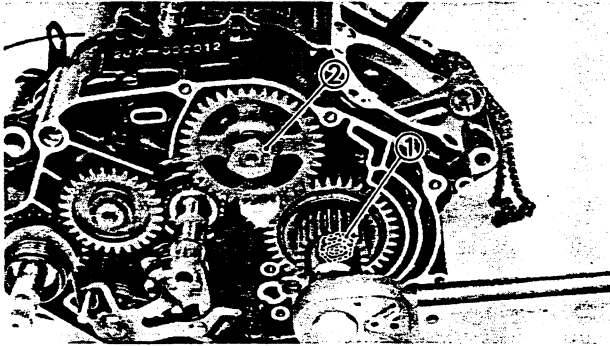
**CAUTION:** \_\_\_\_\_

Align the balancer driven gear mark ⑧ with the balancer drive gear mark ⑨.

**WARNING:** \_\_\_\_\_

Always use a new lock washer.



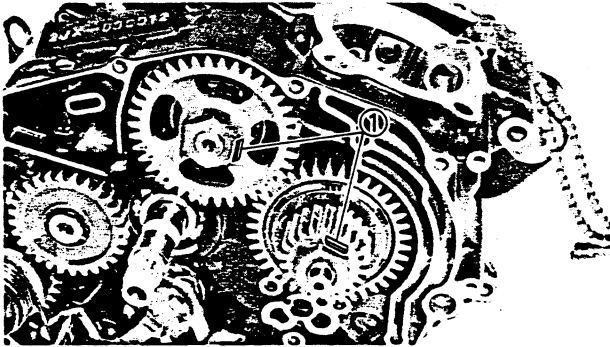


### 3. Tighten:

- Nut ① (Primary drive gear)
- Nut ② (Balancer gear)

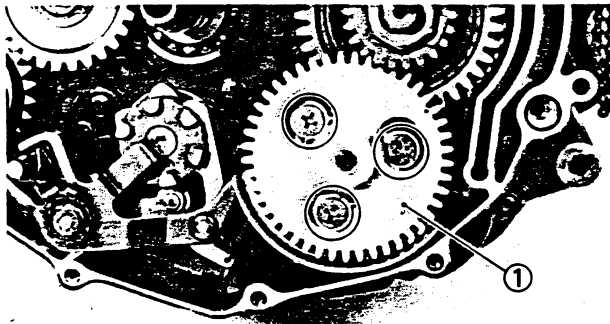
### NOTE:

Place a folded rag between the teeth of the balancer drive gear and driven gear to lock them.



**Nut (Primary Drive Gear):**  
50 Nm (5.0 m•kg, 36 ft•lb)  
**Nut (Balancer Gear):**  
50 Nm (5.0 m•kg, 36 ft•lb)

- ### 4. Bend both lock washer tabs ① along both nut flats.



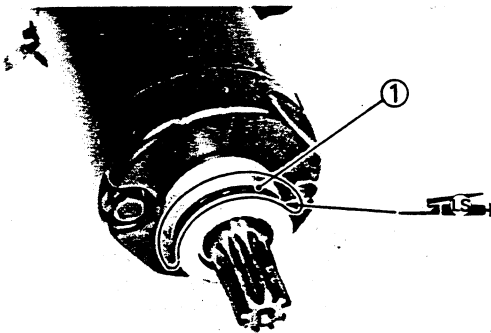
### OIL PUMP

#### 1. Install:

- Gasket (New)
- Oil pump ①



**Screws (Oil Pump):**  
7 Nm (0.7 m•kg, 5.1 ft•lb)



### STARTER MOTOR

#### 1. Lubricate:

- Lithium soap base grease
- Onto the O-ring ① (Starter motor).

#### 2. Install:

- Starter motor

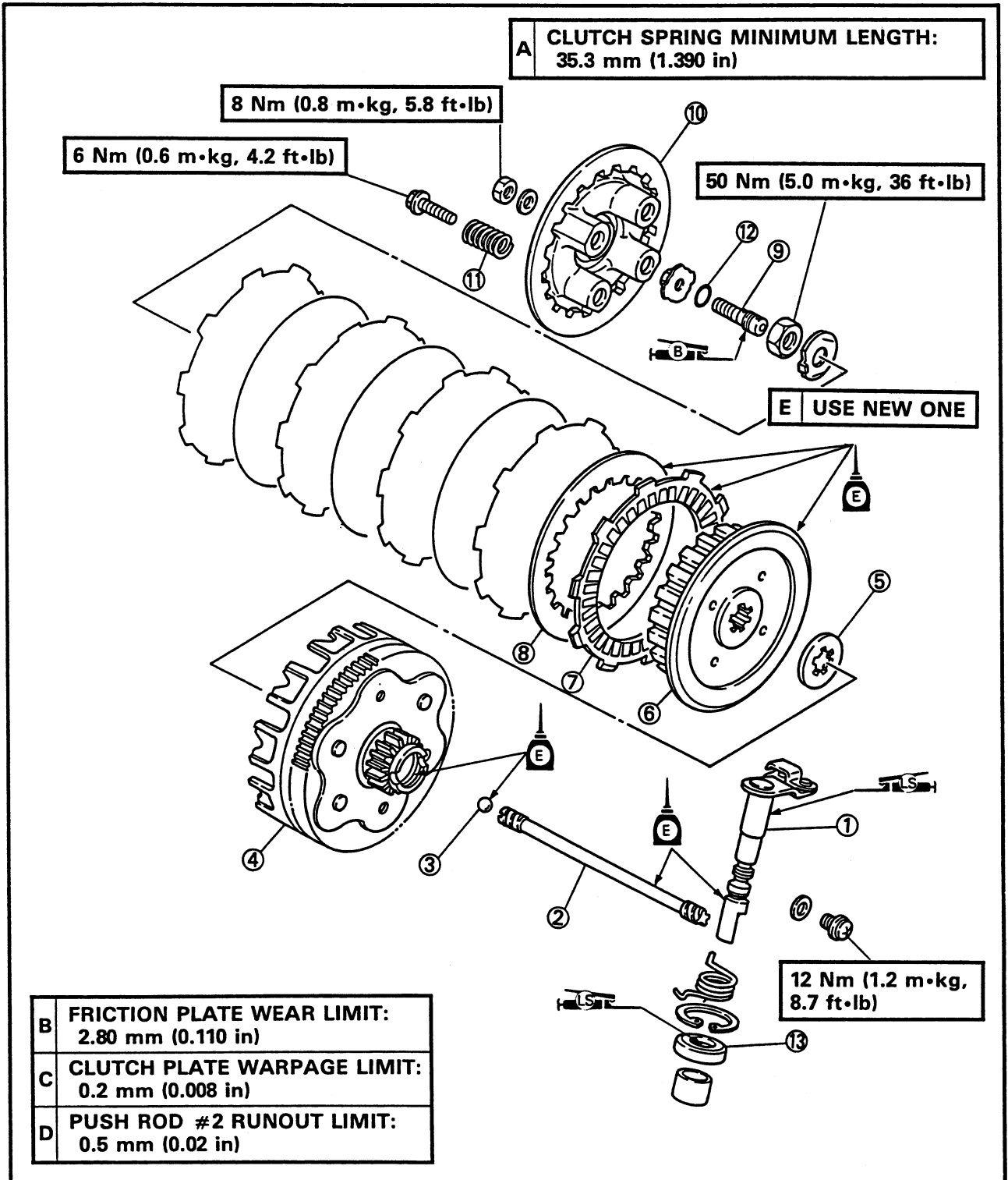


**Bolts (Starter Motor):**  
10 Nm (1.0 m•kg, 7.2 ft•lb)



### CLUTCH

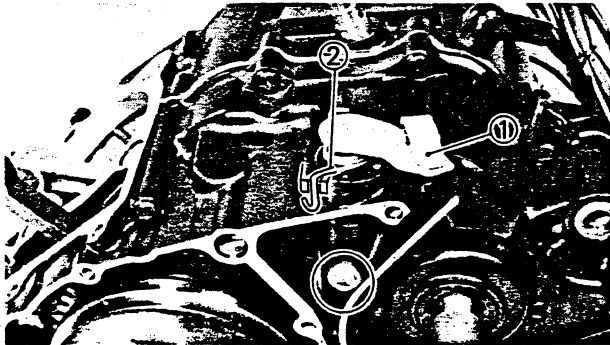
- ① Push lever
- ② Push rod #2
- ③ Ball
- ④ Clutch housing
- ⑤ Thrust washer
- ⑥ Clutch boss
- ⑦ Friction plate
- ⑧ Clutch plate
- ⑨ Push rod #1
- ⑩ Pressure plate
- ⑪ Clutch spring
- ⑫ O-ring
- ⑬ Oil seal



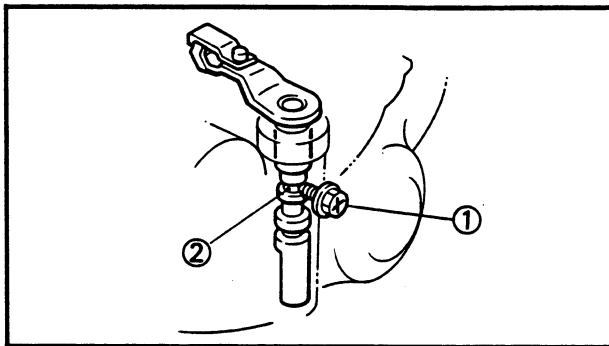


### CLUTCH

1. Lubricate:
  - Engine oil  
To the push levers.
  - Lithium soap base grease  
To the oil seal lips.



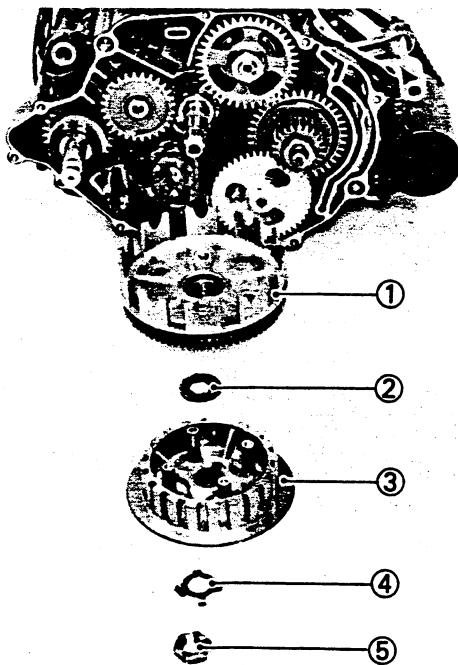
2. Install:
  - Push lever ①
3. Hook the return spring ②.



4. Install:
  - Stopper screw ①

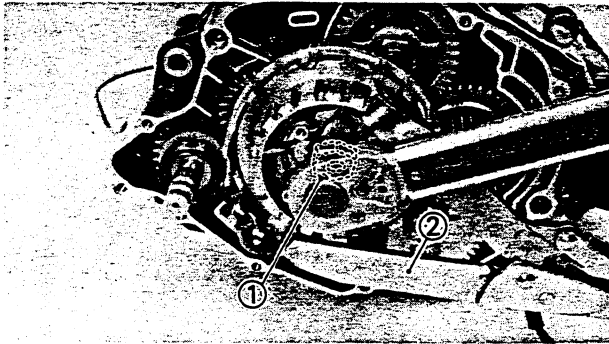
	<b>Stopper Screw:</b> 12 Nm (1.2 m•kg, 8.7 ft•lb)
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**NOTE:** \_\_\_\_\_  
 The stopper screw should lock the top groove ② of the push lever.



5. Install:
  - Clutch housing ①
  - Thrust washer ②
  - Clutch boss ③
  - Lock washer ④
  - Nut (Clutch boss) ⑤

**WARNING:** \_\_\_\_\_  
 Always use a new lock washer.



### 6. Tighten:

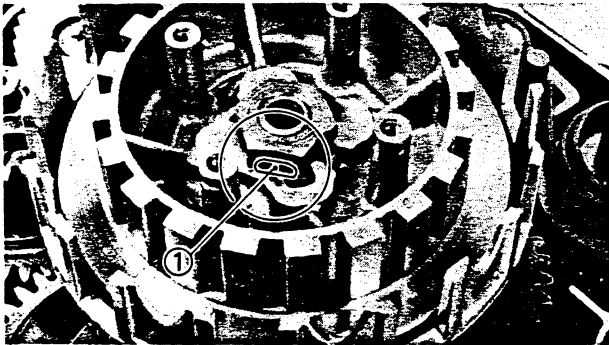
- Nut ① (Clutch boss)
- Use the Universal Clutch Holder ②.



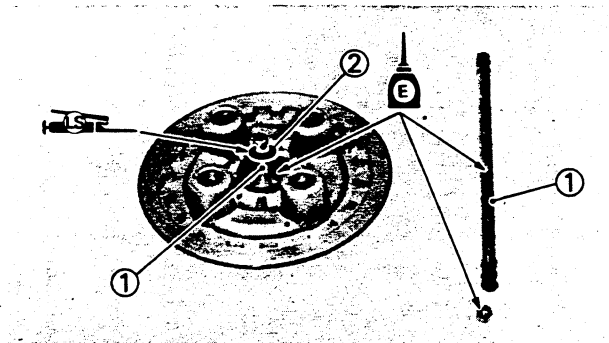
**Universal Clutch Holder:**  
P/N YM-91042



**Nut (Clutch Boss):**  
50 Nm (5.0 m•kg, 36 ft•lb)

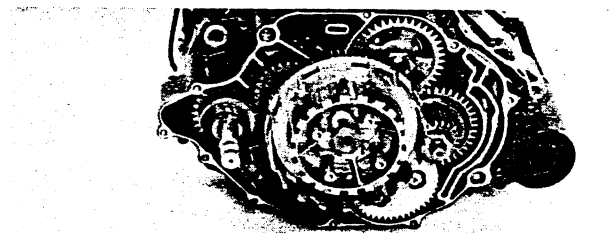


- ### 7. Bend the lock washer tab ① along the nut flats.



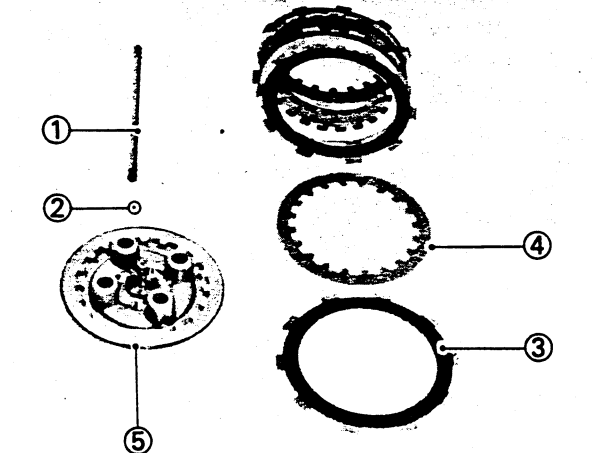
### 8. Lubricate:

- Engine oil
- To the push rod #1 and #2 ①.
- Lithium soap base grease
- To the O-ring ② on the push rod #1.



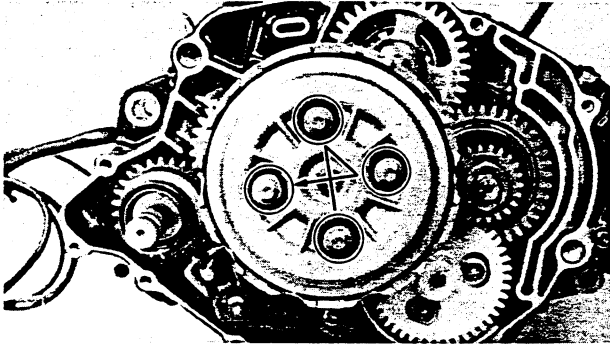
### 9. Install:

- Push rod #2 ①
- Ball ②
- Friction plates ③
- Clutch plates ④
- Pressure plate ⑤



### NOTE:

- Apply the transmission oil onto the friction plate ③.
- Install the clutch plates and friction plate alternately on the clutch boss, starting with a friction plate and ending with a friction plate.



10. Install:

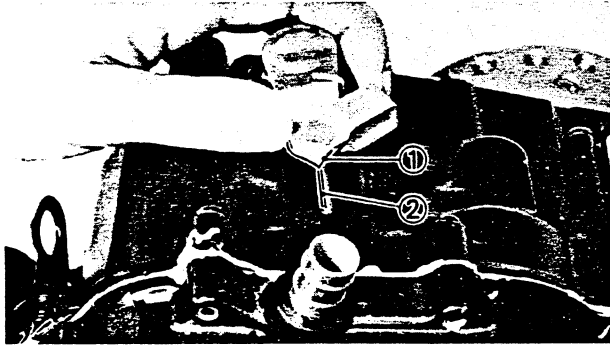
- Springs (Pressure plate)
- Bolts (Pressure plate)



**Bolts (Pressure Plate):**  
**6 Nm (0.6 m•kg, 4.2 ft•lb)**

**NOTE:**

Tighten the bolts in stage, using a crisscross pattern.

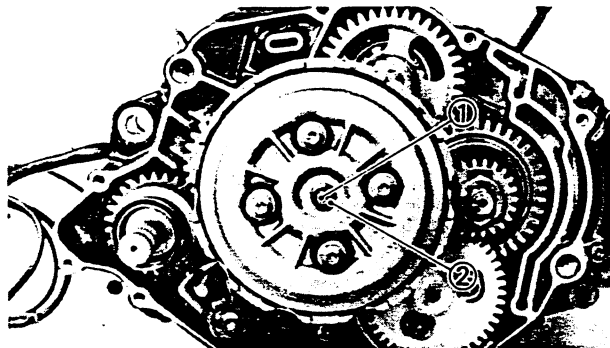


11. Turn:

- Push lever  
 To align the push lever pointer ① with the crankcase embossed mark ②.

12. Turn:

- Push rod #1  
 In or out until it lightly seats against a push rod ball.



13. Tighten:

- Locknut

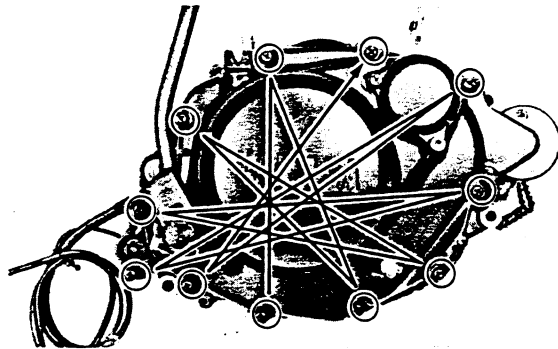


**Locknut (Push Rod):**  
**8 Nm (0.8 m•kg, 5.8 ft•lb)**

- ① Locknut
- ② Push rod #1

14. Install:

- Dowel pins
- Gasket (Crankcase cover)
- Crankcase cover (Right)
- Kick crank



**Bolt (Kick Crank):**  
**20 Nm (2.0 m•kg, 14 ft•lb)**

**NOTE:**

Tighten the screws (crankcase cover—right) in stage, using a crisscross pattern.