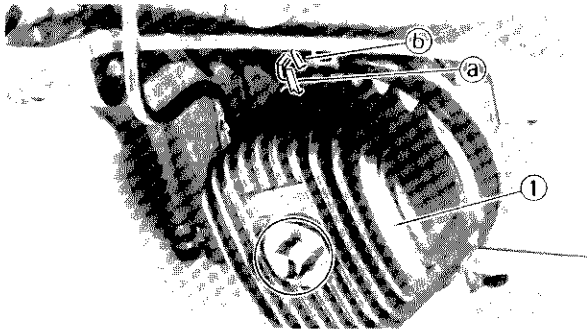


3. Install:
- Dowel pins
  - Gasket (new)
  - Oil pan ①
  - Oil level switch ②
  - Drain plug ③
  - Clamp



**Bolts (oil pan):**  
10 Nm (1.0 m · kg, 7.2 ft · lb)



4. Install:
- Oil filter assembly ①



**Bolt (oil filter):**  
15 Nm (1.5 m · kg, 11 ft · lb)

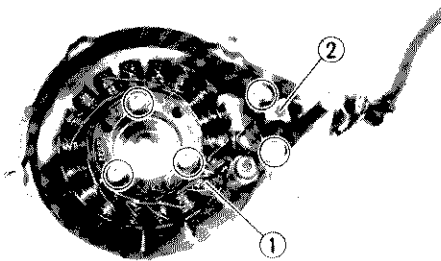
**NOTE:**

Align the projection ① on the oil filter assembly with the slots ② on the crankcase.

Ⓐ Rubber

**A.C. MAGNETO AND STARTOR MOTOR**

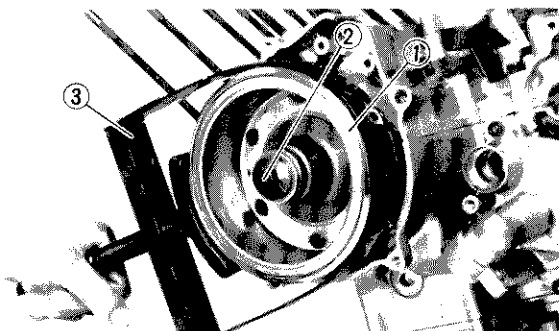
1. Install:
- Stator coil assembly ①
  - Pickup coil ②



**Bolts (stator coil assembly):**  
10 Nm (1.0 m · kg, 7.2 ft · lb)  
Use LOCTITE®

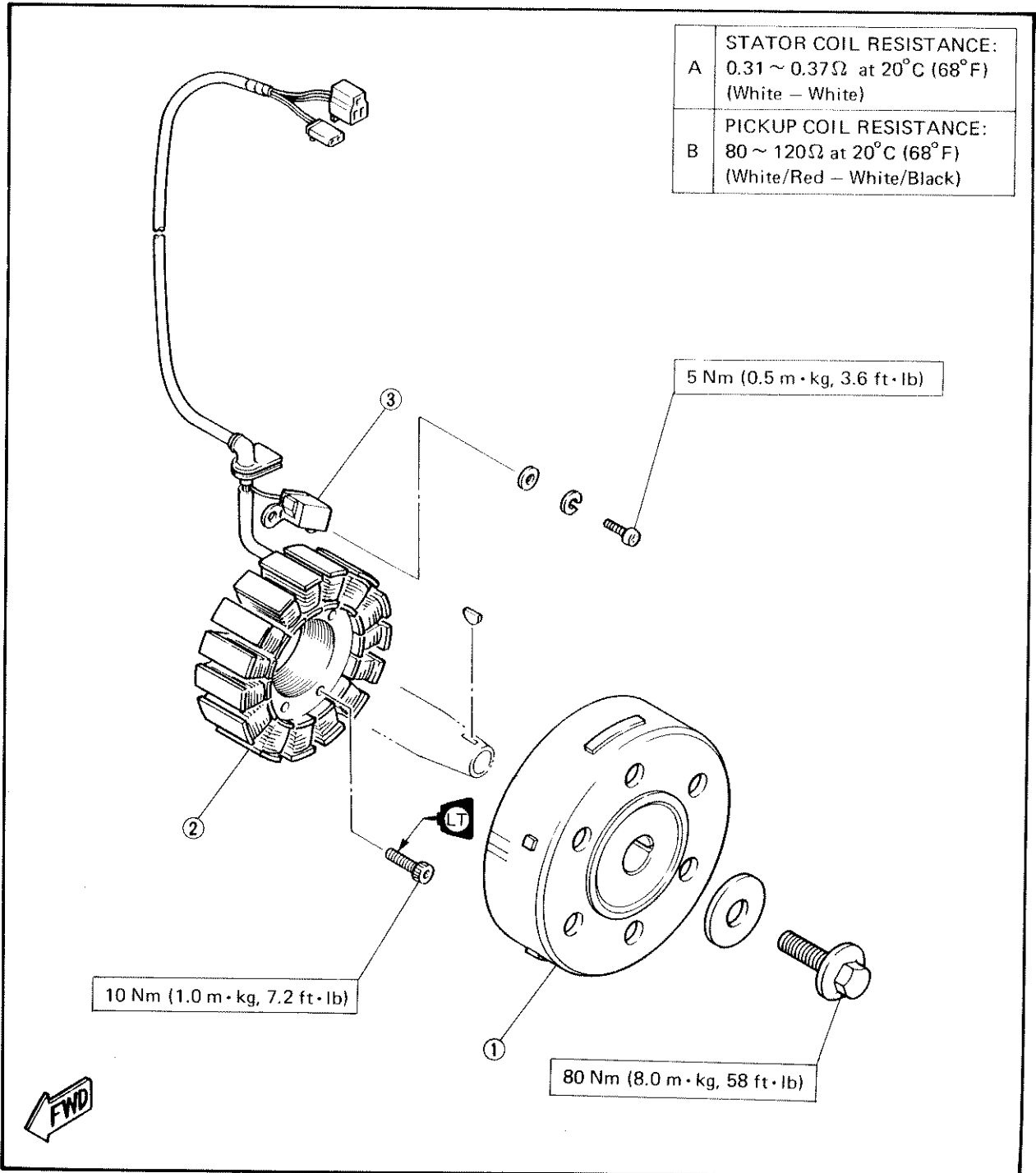
**Screws (pickup coil):**  
5 Nm (0.5 m · kg, 3.6 ft · lb)

2. Install:
- Woodruff key
  - Magneto ①
  - Bolt (magneto) ②
3. Attach:
- Rotor holding tool ③



A.C. GENERATOR

- ① Magneto
- ② Stator coil assembly
- ③ Pickup coil





**NOTE:** \_\_\_\_\_

- Clean the tapered portions of the crankshaft and magneto.
- When installing the magneto, make sure the woodruff key is properly seated in the key way of the crankshaft.



**Rotor holding tool:**  
YS-01880,  
90890-01701

4. Tighten:
- Bolt (magneto)

**NOTE:** \_\_\_\_\_

Tighten the bolt (magneto) while holding the magneto with the universal rotor holder.



**Bolt (magneto):**  
80 Nm (8.0 m · kg, 58 ft · lb)

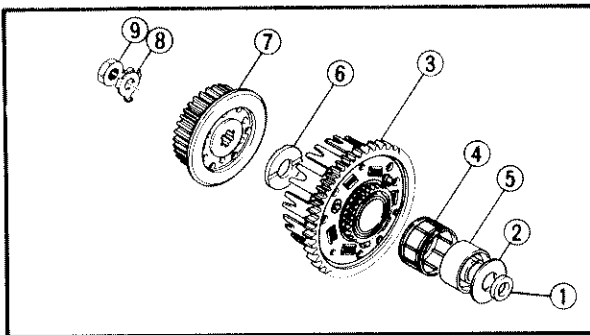
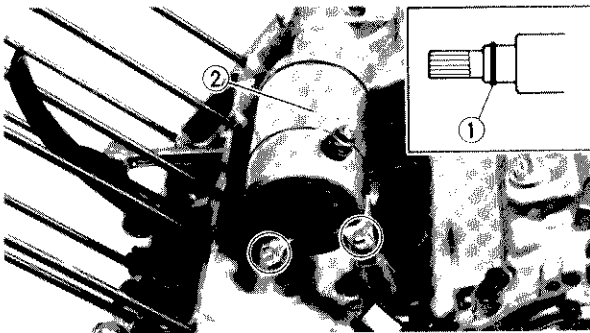
5. Check:
- O-ring (starter motor) ①  
Damage → Replace.
6. Install:
- Starter motor ②

**NOTE:** \_\_\_\_\_

Apply the lithium soap base grease onto the O-ring.



**Bolt (starter motor):**  
10 Nm (1.0 m · kg, 7.2 ft · lb)



**CLUTCH**

1. Install:
- Collar ①
  - Thrust washer ②
  - Clutch housing ③
  - Bearing ④
  - Spacer ⑤
  - Thrust washer ⑥
  - Clutch boss ⑦
  - Lock washer (new) ⑧
  - Nut (clutch boss) ⑨

**NOTE:** \_\_\_\_\_

Install the bearing ④ and spacer ⑤ after installation of the clutch housing ③.

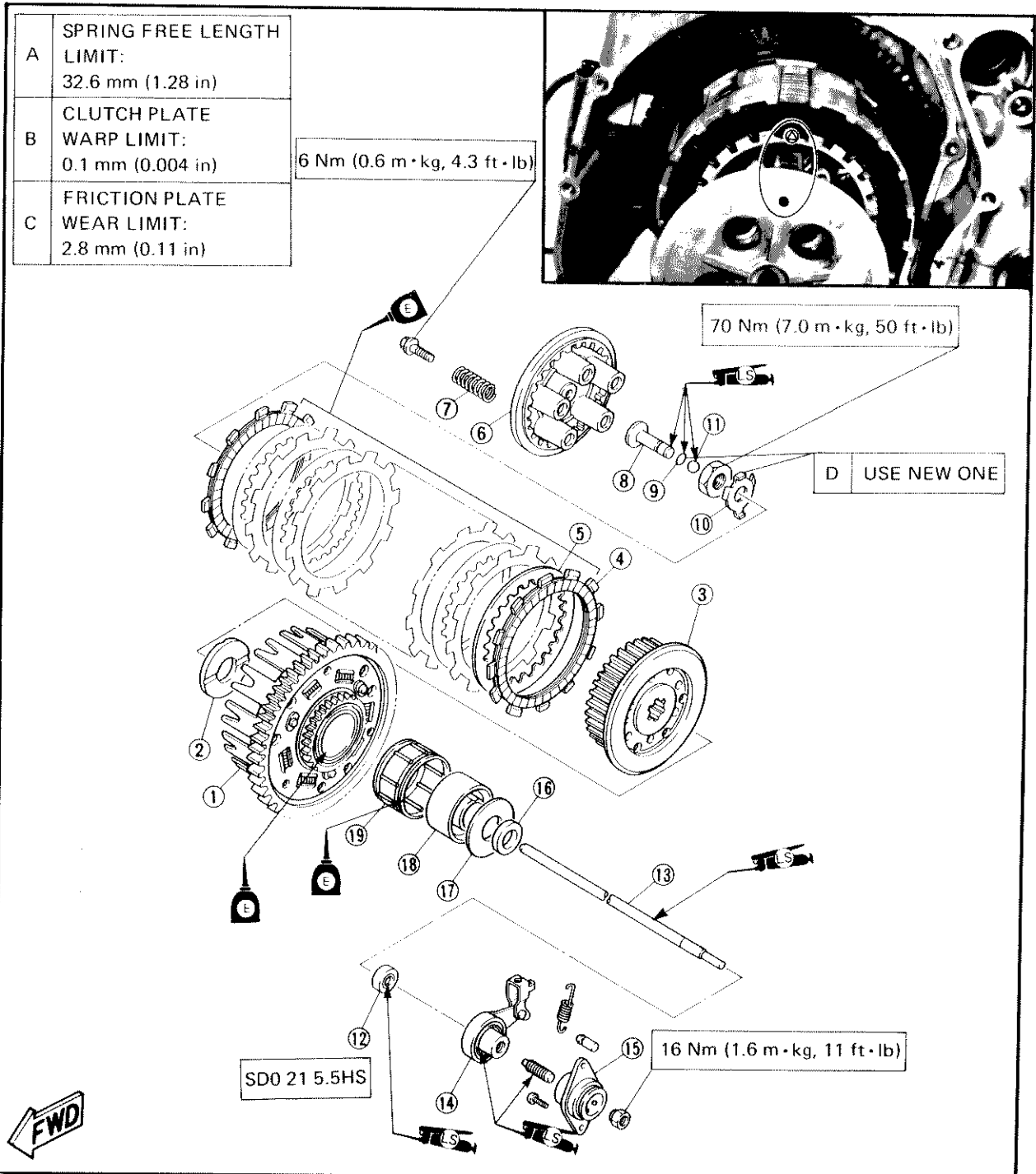
**WARNING:** \_\_\_\_\_

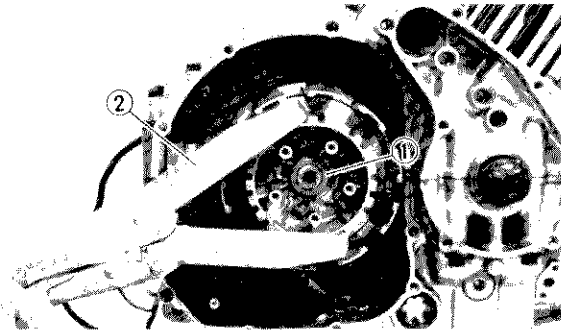
Always use a new lock washer.



## CLUTCH

- |                       |                       |                      |
|-----------------------|-----------------------|----------------------|
| ① Primary driven gear | ⑧ Push rod #1         | ⑮ Boll screw housing |
| ② Thrust washer       | ⑨ O-ring              | ⑯ Collar             |
| ③ Clutch boss         | ⑩ Lock washer         | ⑰ Thrust washer      |
| ④ Friction plate      | ⑪ Boll                | ⑱ Spacer             |
| ⑤ Clutch plate        | ⑫ Oil seal            | ⑲ Bearing            |
| ⑥ Pressure plate      | ⑬ Push rod #2         |                      |
| ⑦ Clutch spring       | ⑭ Push lever assembly |                      |





2. Tighten:

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

NOTE:

Tighten the nut ① (clutch boss) while holding the clutch boss with the universal clutch holder ②.

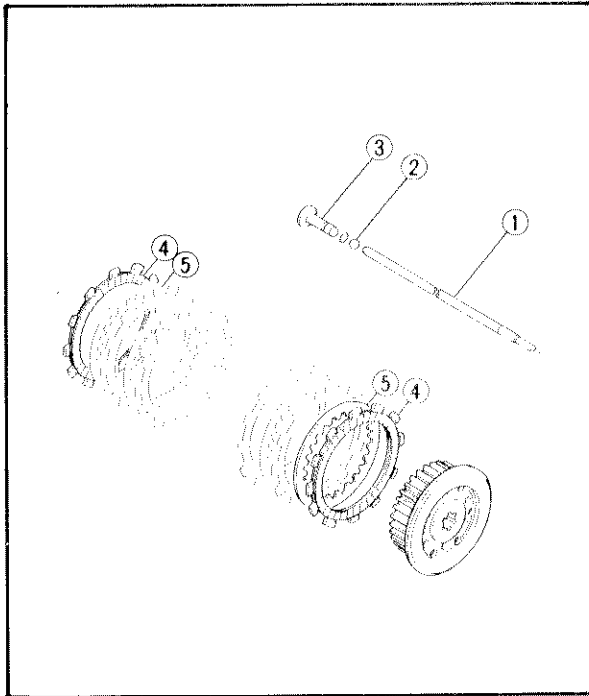


Universal clutch holder:  
YM-91042  
90890-04086



Nut (clutch boss):  
70 Nm (7.0 m·kg, 50 ft·lb)

3. Bend the lock washer tab along the nut flat.



4. Install:

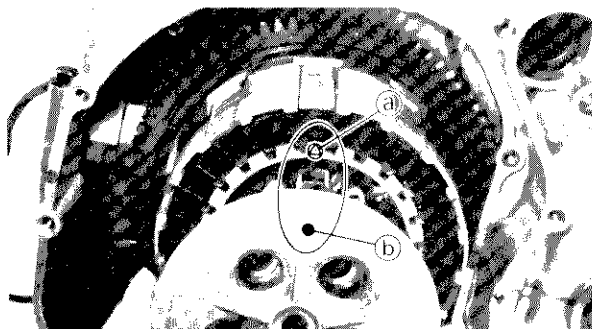
- Push rod #2 ①
- Ball ②
- Push rod #1 ③
- Friction plates ④
- Clutch plates ⑤

NOTE:

Apply the transmission oil onto the friction plate ③.

Apply the lithium soap base grease onto the push rod #1, #2, O-ring and ball.

Install the clutch plates and friction plate alternately on the clutch boss, starting with a friction plate and ending with a friction plate.

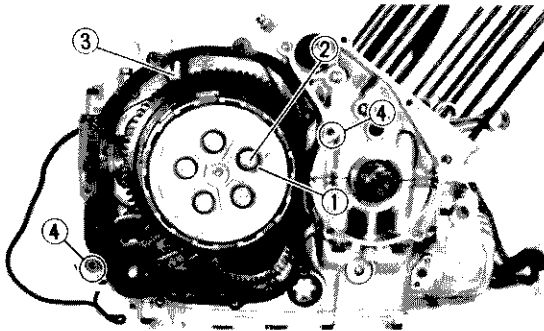


5. Install:

- Pressure plate

NOTE:

Be sure the match mark (a) on the clutch boss is aligned with the match mark (b) on the pressure plate.



6. Install:

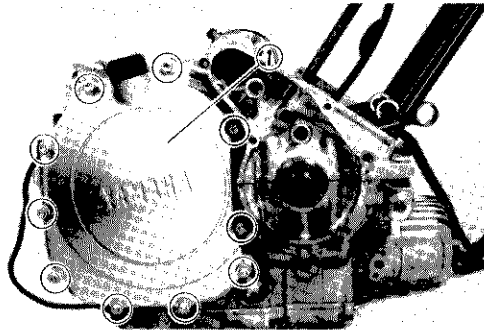
- Clutch springs ①
- Bolts (clutch spring) ②
- Gasket (new) ③
- Dowel pins ④



**Bolts (clutch spring):**  
6 Nm (0.6 m · kg, 4.3 ft · lb)

NOTE:

Tighten the bolts (clutch spring) in stage, using a crisscross pattern.



7. Install:

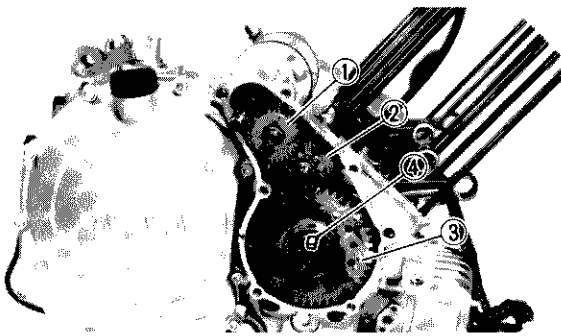
- Dowel pins
- Gasket (crankcase cover)
- Crankcase cover (right) ①



**Bolts (crankcase cover):**  
10 Nm (1.0 m · kg, 7.2 ft · lb)

NOTE:

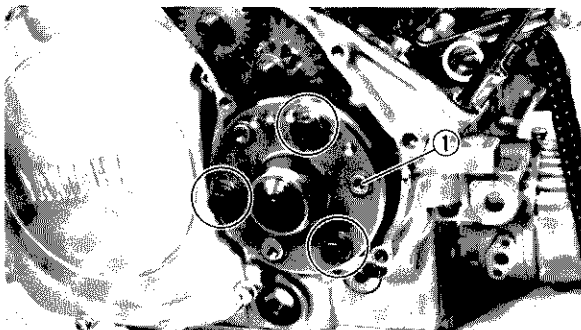
Tighten the bolts (crankcase cover) in stage, using a crisscross pattern.



**STARTER CLUTCH**

1. Install:

- Idle gear ①
- Idle gear ②
- Starter clutch gear ③
- Woodruff key ④



2. Install:

- Starter clutch ①
- Washer
- Bolts (starter clutch)



**Bolt (starter clutch):**  
80 Nm (8.0 m · kg, 58 ft · lb)

3. Install:

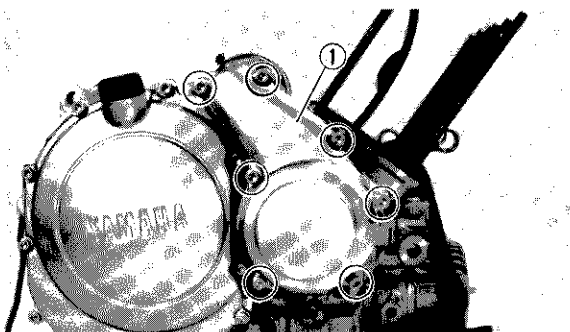
- Dowel pins
- Gasket (starter clutch cover) (new)
- Starter clutch cover ①



**Bolts (starter clutch cover):**  
10 Nm (1.0 m · kg, 7.2 ft · lb)

NOTE:

Tighten the bolts (starter clutch cover) in stage, using a crisscross pattern.





STARTER CLUTCH

- ① Starter drive gear
- ② Idle gear
- ③ Idle gear
- ④ Shaft
- ⑤ Starter clutch assembly
- ⑥ Starter clutch gear
- ⑦ Woodruff key
- ⑧ Washer

