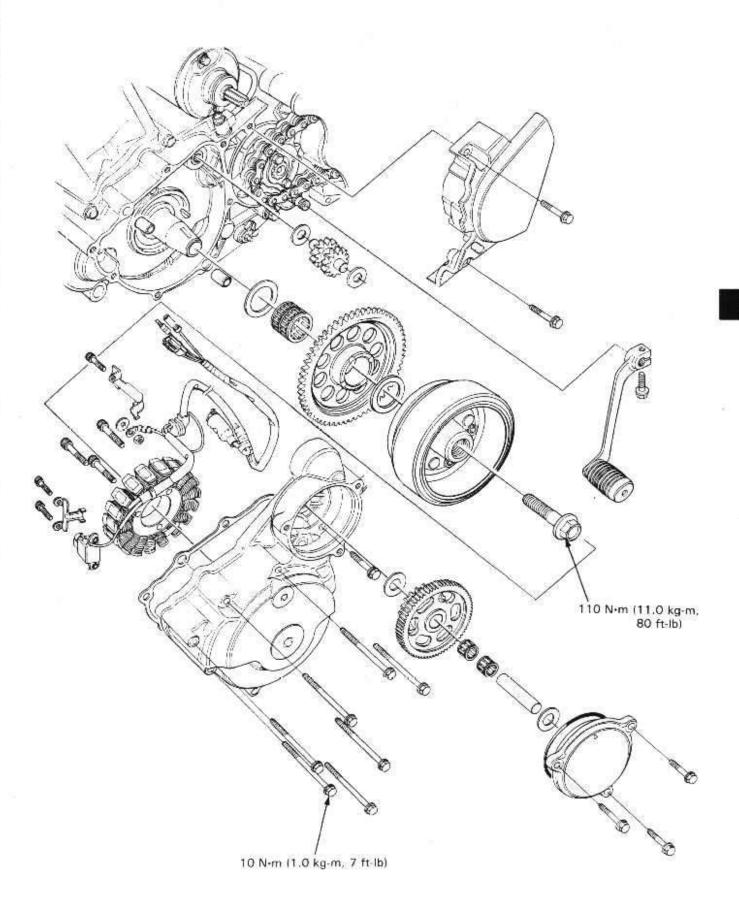
ALTERNATEUR/ROUE LIBRE DE DE MARREUR

LICHTMASCHINE/KICKSTARTER



SERVICE INFORMATION	8-1		0.7
LEFT CRANKCASE COVER REMOVAL	8-2		8-7
FLYWHEEL/STARTER CLUTCH	8-3		

SERVICE INFORMATION

GENERAL

- This section covers the removal and installation of the starter reduction gear, idle gear and starter clutch, flywheel and stater.
- For pulse generator removal and inspection, refer to section 17.

TORQUE VALUES

Flywheel bolt 110 N·m (11.0 kg-m, 80 ft-lb) Starter clutch outer bolt 16 N·m (1.6 kg-m, 12 ft-lb)

TOOLS

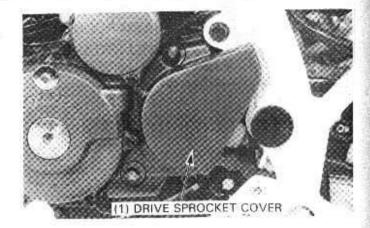
Common

Flywheel holder 07725-0040000 Rotor puller 07733-0020001

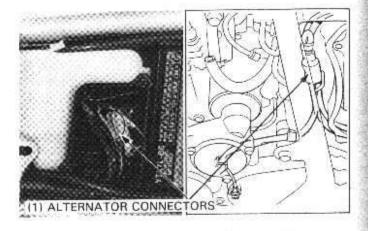
LEFT CRANKCASE COVER REMOVAL

Remove the following:

- drive sprocket cover.
- skid plate (page 6-2).

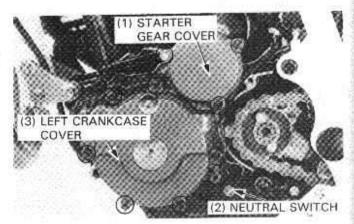


Disconnect the alternator 2P and 3P connectors.



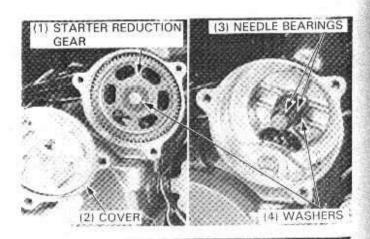
Disconnect the neutral switch wire from the switch terminal,

Remove the bolts from the left crankcase and starter reduction gear covers.

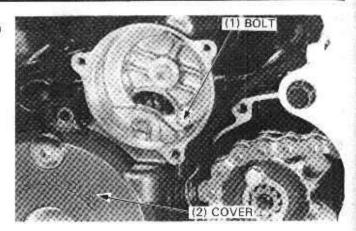


Remove the starter reduction gear cover, washer and gear.

Remove the needle bearings, washer and shaft.

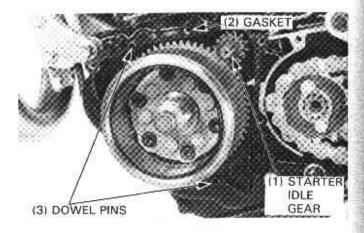


Remove the left crankcase cover bolt located in the reduction gear housing, then remove the crankcase cover.



Remove the starter idle gear.

Remove the gasket and dowel pins.



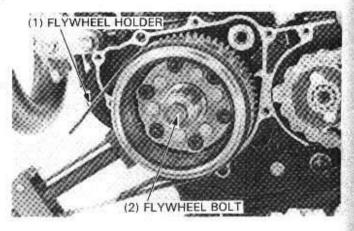
FLYWHEEL/STARTER CLUTCH

FLYWHEEL REMOVAL

Hold the flywheel with the flywheel holder and remove the flywheel bolt.

TOOL: Flywheel holder

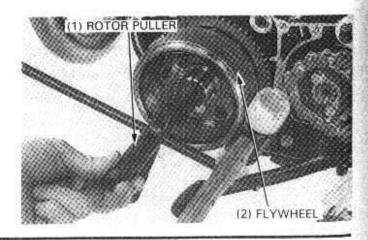
07725-0040000



Remove the flywheel with the rotor puller.

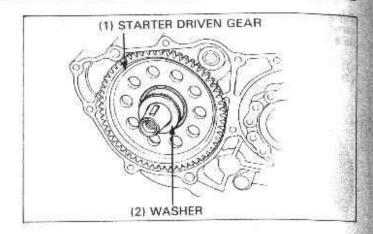
TOOL: Rotor puller

07733-0020001

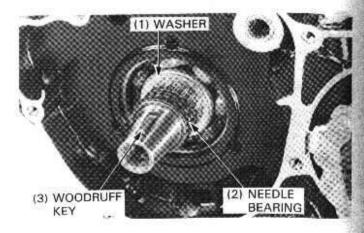


STARTER CLUTCH REMOVAL

Remove the washer and the starter driven gear.



Remove the needle bearing, washer and woodruff key.



ALTERNATOR REPLACEMENT

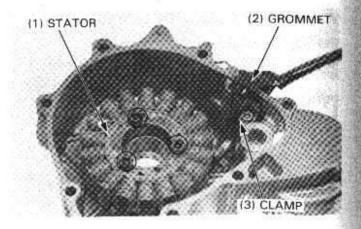
Remove the wire clamp by removing the bolt.

Remove the three stator bolts and disconnect the wire terminal from the pulse generator (page 17-5).

Remove the stator and wire grommets from the cover.

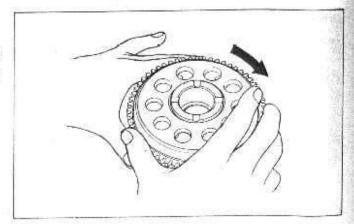
Insert the wire grommet into the groove in the cover. Apply a locking agent to the stator bolt and install and tighten the bolts.

Install the wire clamp and connect the wire to the pulse generator.

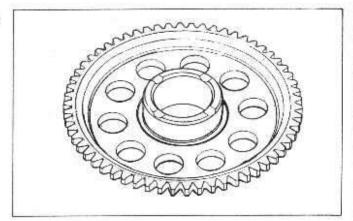


STARTER CLUTCH INSPECTION/DISASSEMBLY

Check the operation of the one-way clutch by turning the driven gear. You should be able to turn the driven gear clockwise smoothly, but the gear should not turn counterclockwise.



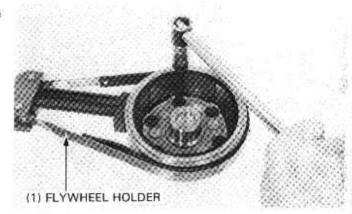
Inspect the starter driven gear teeth for damage or abnormal wear.



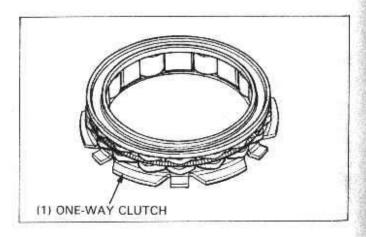
Hold the flywheel and remove the socket bolts, then remove the one-way clutch.

TOOL: Flywheel holder

07725-0040000



Check the one-way clutch rollers for wear or damage.

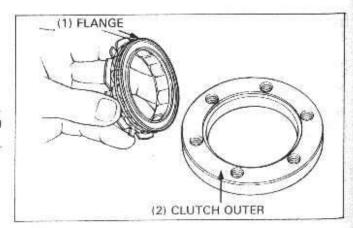


ASSEMBLY

Apply oil to the one-way clutch rollers.
Install the one-way clutch in the clutch outer.

NOTE

 Make sure the flange side of the one-way clutch is facing the flywheel.

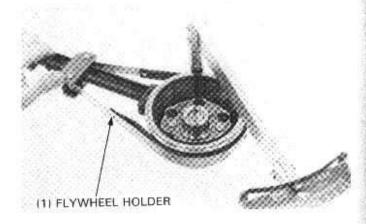


Apply a locking agent to the socket bolt threads. Install the tighten the bolts.

TOOL: Flywheel holder

07725-0040000

TORQUE: 16 N·m (1.6 kg-m, 12 ft-lb)

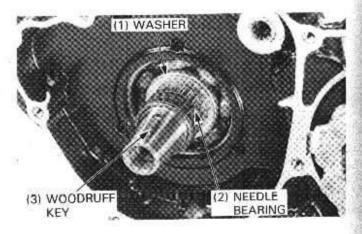


STARTER CLUTCH/FLYWHEEL INSTALLATION

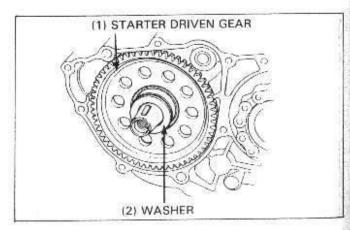
Clean any oil from the crankshaft.

Install the washer with its chamfered surface facing out.

Install the needle bearing and woodruff key.



Install the starter driven gear and washer.



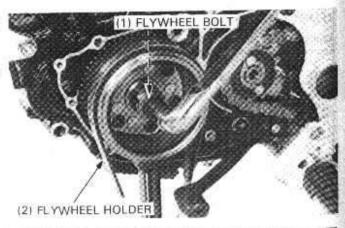
Install the flywheel with the one-way clutch, aligning the key way in the flywheel with the key on the crankshaft.

Install the washer and the flywheel bolt. Hold the flywheel and tighten the bolt.

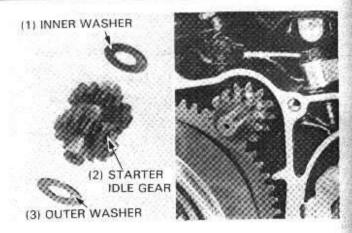
TOOL: Flywheel holder

07725-0040000

TORQUE: 110 N·m (11.0 kg-m, 80 ft-lb)

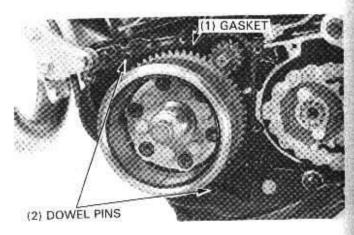


Assemble the inner washer, starter idle gear and outer washer, then install them as shown.



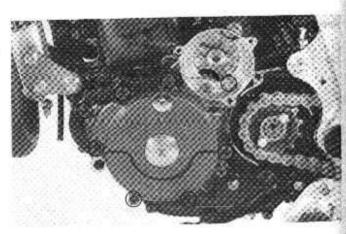
LEFT CRANKCASE COVER INSTALLATION

Install a new gasket and dowel pins.

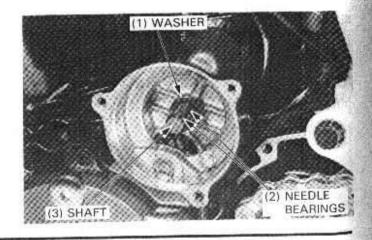


Install the left crankcase cover.

Tighten the cover bolts in 2 or 3 steps in a crisscross pattern.

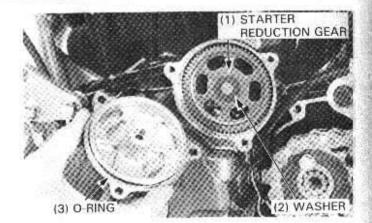


Install the shaft, washer and needle bearings.

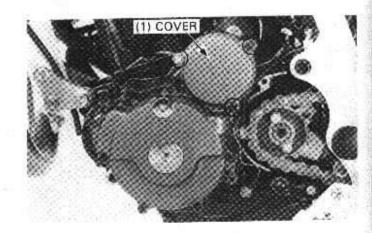


Install the starter reduction gear and washer.

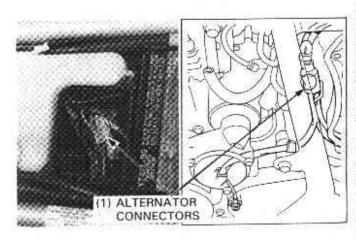
Install a new O-ring in the cover and install the cover.



Install the and tighten cover bolts.



Connect the alternator 2P and 3P connectors.



Connect the neutral switch wire and route it properly.

Install the drive sprocket cover.

Install the skid plate (page 7-11).

