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SERVICE INFORMATION

GENERAL INSTRUCTIONS

- To repair the crankshaft, connecting rod, primary shaft and the transmission including the shift fork and drum, it is necessary to separate the crankcase halves.
- The following parts must be removed before disassembling the crankcase.

- Oil pan See section 2
- Oil pump See section 2
- Cylinder head See section 6
- Cylinder/pistons See section 7
- Clutch and starter clutch See section 8
- Gear shift linkage See section 9
- Sub transmission See section 10
- A.C. generator See section 18
- Starter motor See section 20

TORQUE VALUES

- | | |
|------------------------|----------------------------|
| 8 mm bolt (Crankshaft) | 2.1-2.5 kg-m (15-18 ft-lb) |
| 8 mm bolt (Crankcase) | 2.1-2.5 kg-m (15-18 ft-lb) |
| 6 mm bolt | 1.0-1.4 kg-m (7-10 ft-lb) |
| 10 mm bolt | 4.5-5.0 kg-m (33-36 ft-lb) |



CRANKCASE DISASSEMBLY

Remove the upper crankcase bolts.

Turn the engine upside-down.
Remove the lower crankcase bolts.

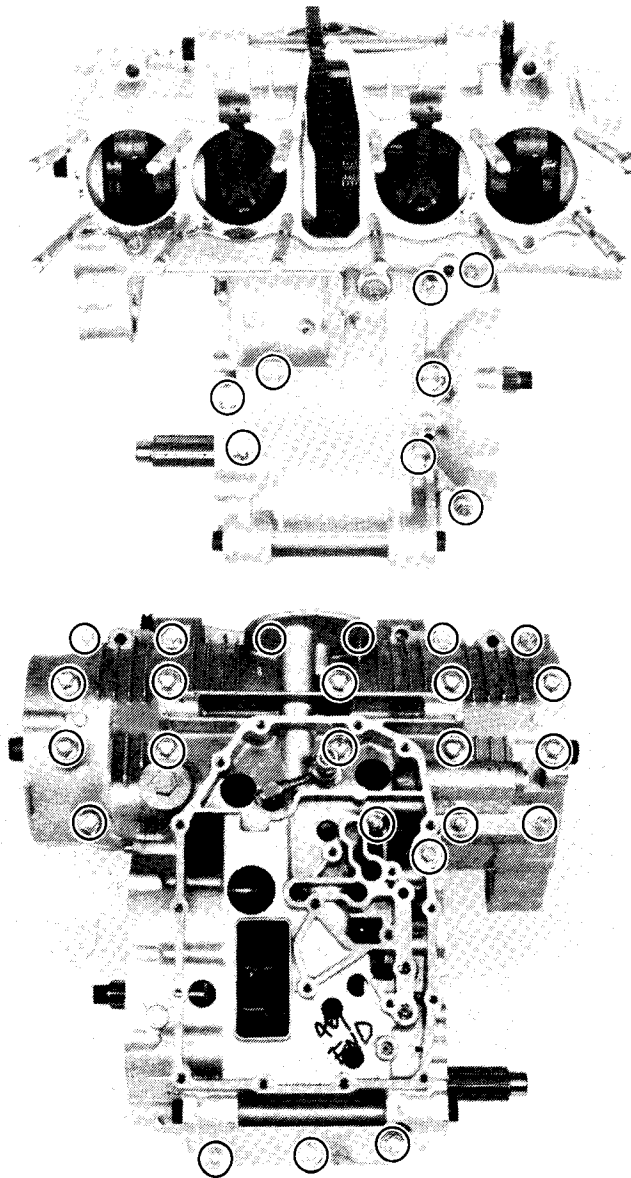
NOTE

Remove the bolts in two or more steps
and in a crisscross pattern to prevent
warping.

Separate the crankcase.

CAUTION:

*Do not pry between the upper and
lower cases.*



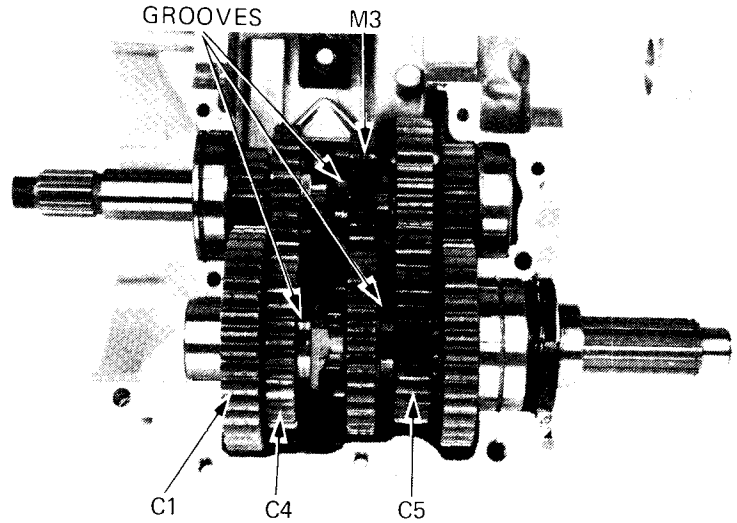


CRANKCASE ASSEMBLY

Slide the C4 gear into the C1 gear.
Make sure that the other gears are not engaged.

Apply molybdenum disulfide grease to the groove of the M3 gear and C4, C5 gears.

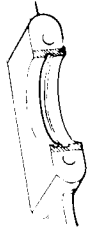
Apply molybdenum disulfide grease to the crankshaft main bearings.



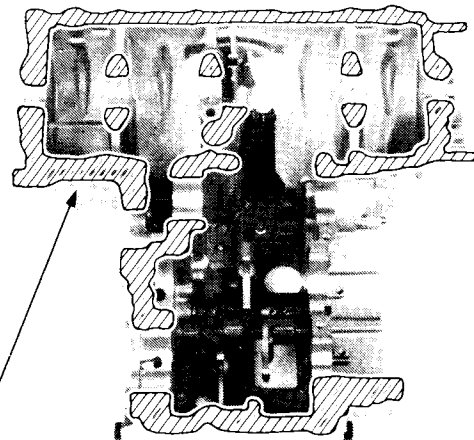
Clean the crankcase mating surfaces.
Apply liquid sealant to the mating surface of the lower and upper crankcase.

CAUTION:

Do not apply sealant to the area near the main bearings.

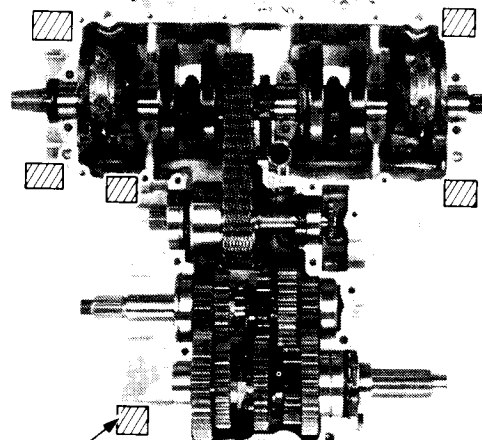


LOWER CRANKCASE



SEALANT

UPPER CRANKCASE



SEALANT



Assemble the crankcase halves, aligning the shift fork claws with the gears.
Tighten the bolts to the specified torque values in the sequence shown.

TORQUE VALUES:

- 8 mm bolt (Crankshaft) 2.1–2.5 kg-m
(15–18 ft-lb)
- 8 mm bolt (Crankcase) 2.1–2.5 kg-m
(15–18 ft-lb)
- 6 mm bolt 1.0–1.4 kg-m
(7–10 ft-lb)
- 10 mm bolt 4.5–5.0 kg-m
(33–36 ft-lb)

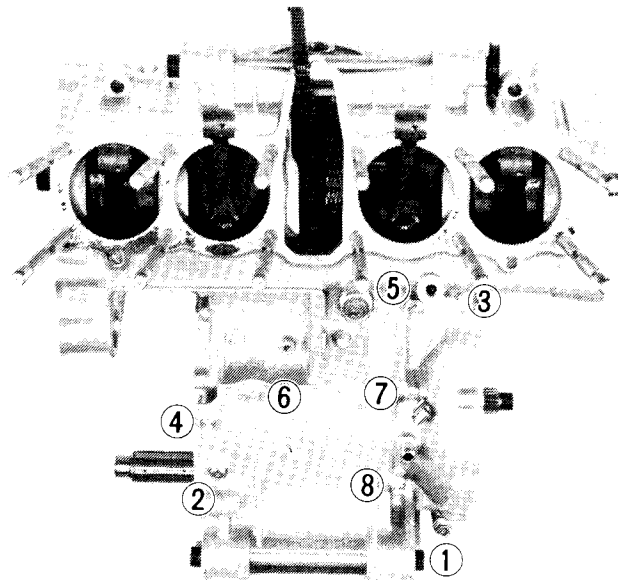
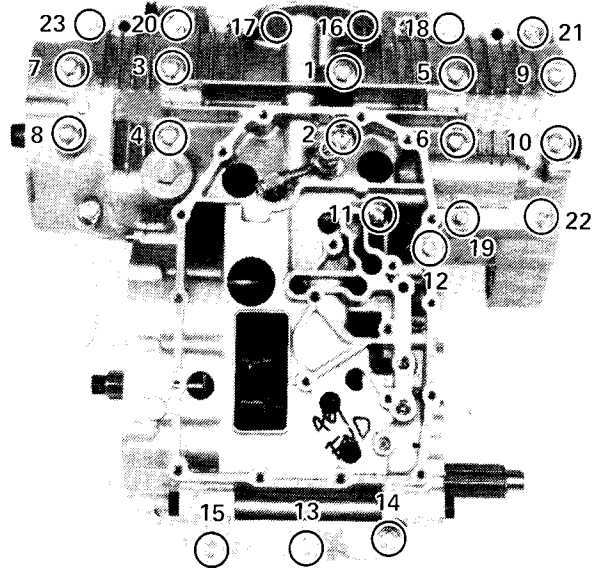
NOTE

- Make sure that the plain washers are under the bolt heads of the ten crankshaft bearing bolts.
- Apply engine oil to the threads and head of the ten crankshaft holding bolts.

Tighten the upper crankcase bolts to the specified torque, proceeding front to rear.

NOTE

- If the oil galley cap is removed, apply molybdenum disulfide grease to the threads before installing.





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