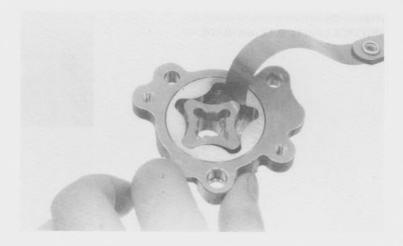


Measure the tip clearance between the inner and outer B rotors.

SERVICE LIMIT: 0.2 mm (0.008 in)

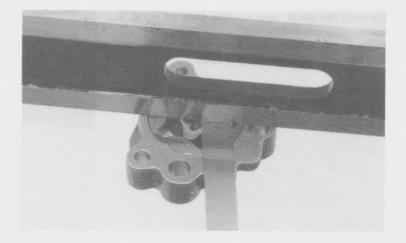


Measure the clearance between the outer rotor B and the pump B body.

SERVICE LIMIT: 0.25 mm (0.01 in)



Measure the end clearance of pump B. SERVICE LIMIT: 0.12 mm (0.005 in)

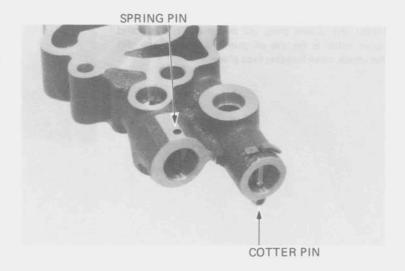




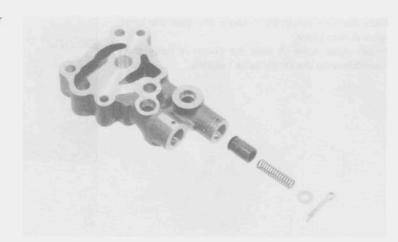


#### CHECK VALVE INSPECTION

Remove the cotter pin, washer, spring and check valve, from the check valve bore.

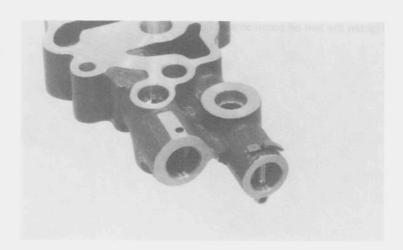


Inspect the check, valve and check valve bore for scoring or contamination.
Clean, or replace, as necessary.



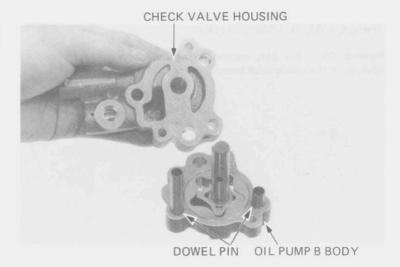
#### OIL PUMP ASSEMBLY

Install the check valve, spring, and washer with a new cotter pin.



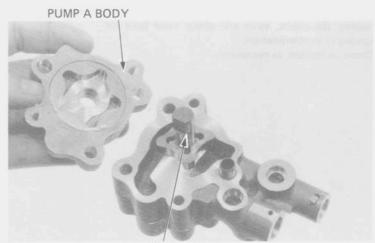


Install the dowel pins, oil pump shaft, inner and outer rotor B on the oil pump B body, then slip the check valve housing into place.



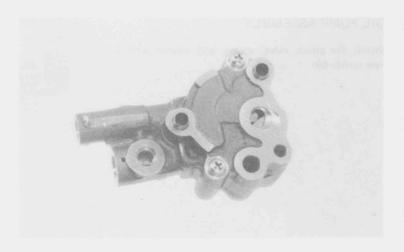
Press the lock pin in the pump shaft, then slip inner rotor A into place.

Install outer rotor A into the pump A body then assemble onto the check valve housing.



LOCK PIN

Tighten the two oil pump screws.





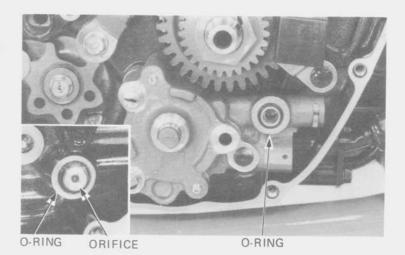
#### OIL PUMP INSTALLATION

Install the orifice and a new O-ring onto the right crankcase.

Install the oil pump onto the right crankcase and tighten the two bolts.

Install the collar and a new O-ring.

Coat new O-rings with engine oil and install them on the oil pipe.

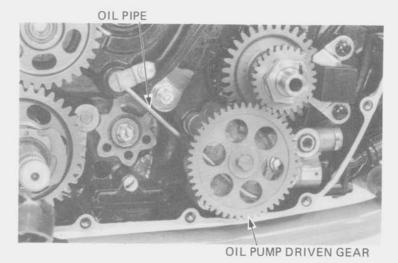


Install the oil pipe.

Tighten the oil pipe with two bolts.

Install the oil pump driven gear over the oil pump shaft.

Install the clutch (page 8-8).

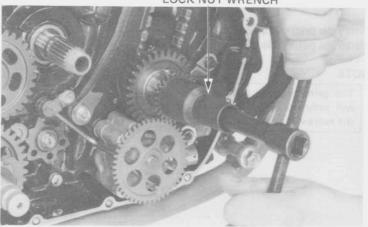


### DRIVE GEAR

#### REMOVAL

Remove the clutch (Page 8-5). Remove the left crankcase cover. Hold the flywheel with the flywheel holder. Remove the driven gear lock nut. Remove the oil pump driven gear.

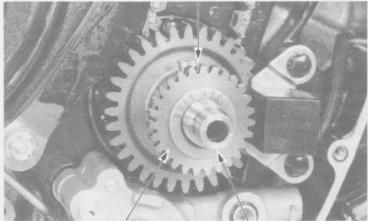






Remove the lock washer, oil pump drive gear, pulse generator rotor.

#### PULSE GENERATOR ROTOR

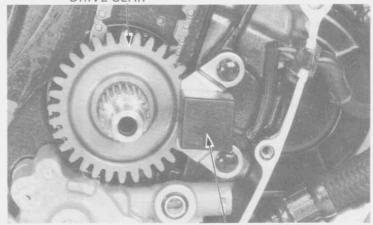


OIL PUMP DRIVE GEAR

LOCK WASHER

Remove the pulse generator and primary drive gear.





**PULSE GENERATOR** 

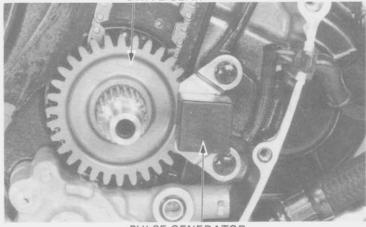
## DRIVE GEAR INSTALLATION

Install the primary drive gear. Install the pulse generator.

#### NOTE

The primary drive and oil pump drive gears will only go on in one posit on because of the extra-wide alining spline.

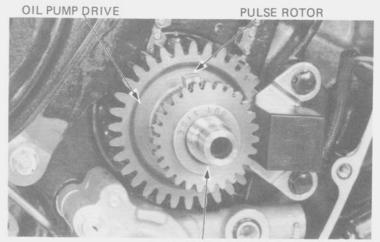




PULSE GENERATOR



Install the pulse rotor and oil pump drive gear. Install the lock washer with the mark "Outside" facing out.



LOCK WASHER

Install the lock nut and tighten to the specified torque.

TORQUE: 50-60 N·m

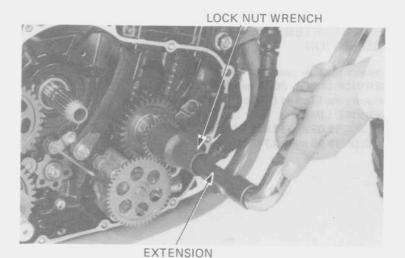
(5.0-6.0 kg-m, 36-43 ft-lb)

Remove the flywheel holder and install the left

crankcase cover. (page 9-4)

Install the oil pump driven gear.

Install the clutch (page 8-8).

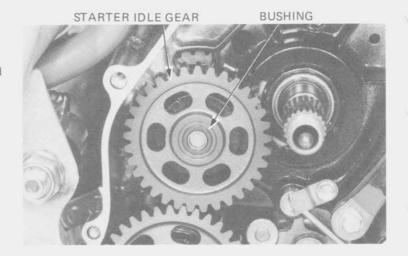


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#### KICK STARTER REMOVAL

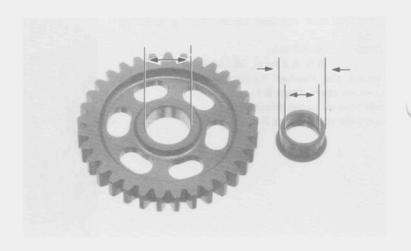
Remove the clutch (Page 8-5). Remove the kick starter idler gear and its franged bushing.



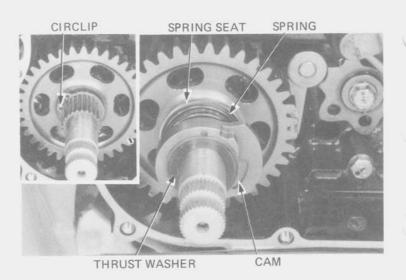
## KICK STARTER IDLER GEAR INSPECTION

Measure the idler gear I.D.
SERVICE LIMIT: 20.11 mm (0.792 in)
Measure the I.D. and O.D. of the idler gear bushing.
SERVICE LIMIT:

I.D.: 16.03 mm (0.631 in) O.D.: 19.90 mm (0.783 in)



Remove the thrust washer, cam, return spring, spring seat and circlip.

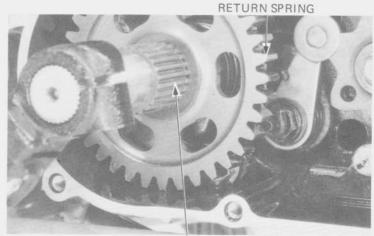


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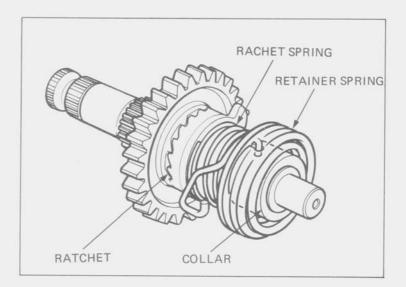
Unhook the kick starter return spring from right crankcase.

Temporarily install the kick starter pedal on the kick starter spindle and turn it counterclockwise to remove the spindle assembly.

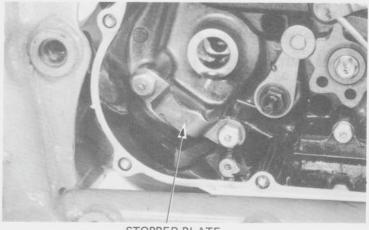


KICK STARTER SPINDLE

Remove the retainer spring, collar washer, rachet spring, ratchet, circlip and thrust washer.



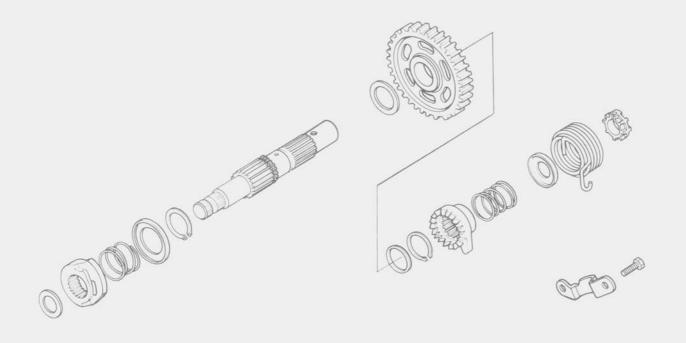
Remove the kick cam stopper plate.



STOPPER PLATE



#### KICK STARTER SPINDLE DISASSEMBLY

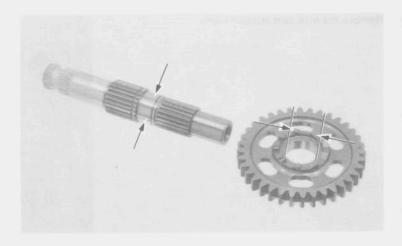


#### KICK STARTER INSPECTION

Measure the kick starter pinion gear I.D. and spindle O.D.

SERVICE LIMIT:

I.D.: 22.12 mm (0.871 in) O.D.: 21.90 mm (0.862 in)





#### GEAR SHIFT CAM REMOVAL

Remove the stopper arm, shift drum cam and return spring.



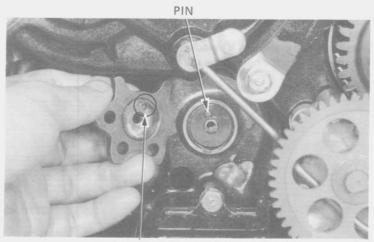
STOPPER ARM

SPRING

SHIFT DRUM CAM

#### SHIFT DRUM CAM INSTALLATION

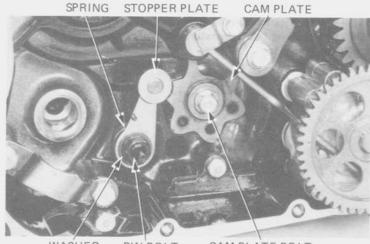
Install the shift drum cam, aligning its hole with the shift drum pin.



HOLE

Apply locking agent to the threads of the cam plate bolt and tighten the bolt.

TORQUE: 10—14 N·m (1.0—1.4 kg·m, 7—10 ft-lb) Install the spring, stopper arm, washer and pin bolt. TORQUE: 22—26 N·m (2.2—2.6 kg·m, 16—19 ft-lb)



WASHER

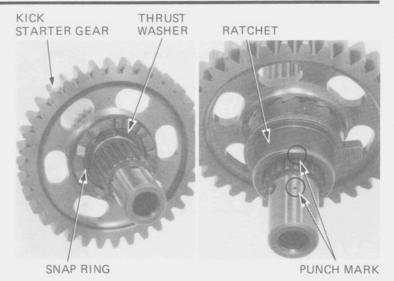
PIN BOLT

CAM PLATE BOLT



Install the thrust washer, kick starter gear, thrust washer and snap ring over the spindle.

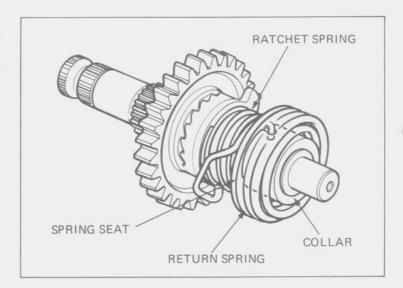
Align the punch marks on the ratchet and the spindle and install the ratchet over the spindle.



Install the ratchet spring and spring seat.

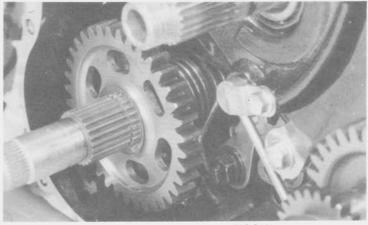
Install the return spring and insert its end into the hole in the spindle.

Install the collar aligning its groove with the spring end inserted into the hole in the spindle.



Install the kickstarter spindle into its hole in the right crankcase and hook the return spring into the hole in the crankcase.

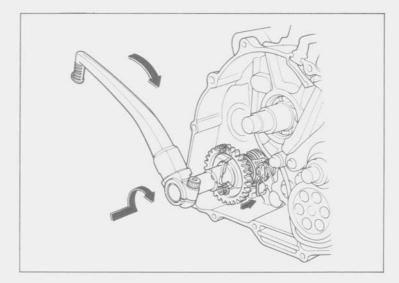




HOOK



Temporarily install the kick starter pedal on the kick spindle and rotate the shaft counterclockwise until the ratchet stub is clear of the stoppper plate. Push the kick starter assembly into the crankcase.

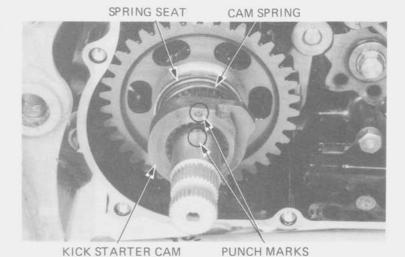


Install the circlip, spring seat, return spring and cam.

#### NOTE

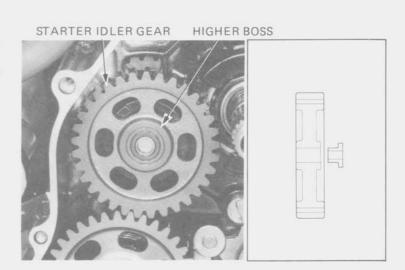
Align the cam punch mark with the spindle punch mark.

Install the thrust washer.



Install the sterter idle gear bushing with its flange facing in.

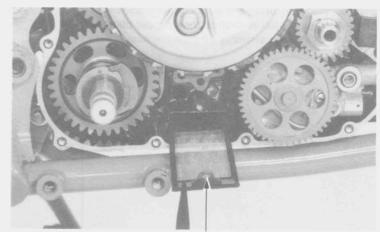
Install the sterter gear with its higher boss facing out.





# RIGHT CRANKCASE COVER INSTALLATION

Remove the oil screen, clean it, then reinstall.



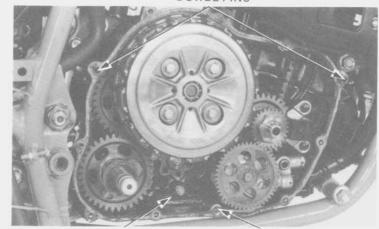
OIL FILTER SCREEN

Install the dowel pins and gasket.

#### NOTE

Apply liquid sealer to the crankcase cover mating surface to hold the gasket.

#### DOWEL PINS



OIL FILTER SCREEN

GASKET

#### NOTE

Before installing the crankcase cover, clean the threads of the bolts and nuts ('84) shown in the photo and apply Loctite® Lock and Seal or an equivalent.

Install the cover while holding the cam follower down.

Install the cover bolts and nuts ('84) with the conical washers. Be sure the cupped side of the washers face the cover.

Tighten the cover bolts.

TORQUE: 8-12 N·m

(0.8-1.2 kg-m, 6-9 ft-lb)



WASHER AND 6 mm NUT ('84)





Install the oil pipe and exhaust pipe.
Install the kick starter decompressor cable.
Install the rear brake linkage and rear brake pedal.
Install the right foot peg.
Install the skid plate.

Fill the oil tank with the recommended oil up to the proper level.

Adjust the starter decompressor (See Page 3-8). Adjust the clutch free play (See Page 3-16). Check the brake light switch (See Page 3-15).

