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SERVICE INFORMATION

WORKING PRACTICE

Clutch discs, plates "A" and "B", clutch center, and clutch plates can be serviced by removing the clutch cover. To service the oil pump, it is necessary to remove the radiator and transmission cover. All these operations can be accomplished with the engine in the frame.

SPECIAL TOOLS

Special tool

CLUTCH CENTER HOLDER

07923-4150000

Common tools

LOCK NUT SOCKET WRENCH (26 x 29 mm)

EXTENSION HANDLE

07716-0020201

SPECIFICATIONS

			Standard	Service Limit
Clutch	Lever free play (at lever end)		10-20 mm (3/8-3/4 in.)	-
	Clutch spring	Free length	33.90 mm (1.3346 in.)	32.5 mm (1.2795 in.)
		Tension	19.7-22.3 kg/23.5 mm (43.4-49.2 lbs/ 0.9252 in.)	18.0 kg/23.5 mm (39.7 lbs/0.9252 in.)
	Disc thickness	A	2.7 mm (0.1062 in.)	2.3 mm (0.0905 in.)
		В	3.5 mm (0.1378 in.)	3.1 mm (0.1220 in.)
	Plate warpage	A		0.20 mm (0.008 in.)
		В		0.20 mm (0.008 in.)
	Clutch outer I.D.		33.000-33.016 mm (1.2992-1.2998 in.)	33.07 mm (1.3019 in.)
	Outer guide O.D		32.950-32.975 mm (1.2972-1.2982 in.)	32.90 mm (1.2952 in.)
Oil pump	np Inner-to-outer rotor clearance			0.10 mm (0.004 in.)
	Outer rotor-to-body clearance		_	0.35 mm (0.0138 in.)
	Rotor-to-body clearance		·-	0.10 mm (0.004 in.)
Oil pressure relief valve Relief pressure			5.0-6.0 kg/cm ² (71.1-85.3 psi.)	

TROUBLESHOOTING

Oil Pump

 Refer to page 2-1 for oil pump troubleshooting.

Clutch

 Faulty clutch operation can usually be corrected by adjusting the free play.

Clutch Slips When Accelerating

- No free play
- Discs worn
- Springs weak

Clutch Will Not Disengage

- Too much free play
- Plates warped

Clutch Chatters or Rattles

Worn clutch outer and disc splines

Motorcycle Creeps with Clutch Disengaged

- · Too much free play
- · Plates warped

Excessive Lever Pressure

- · Clutch cable linked, damaged or dirty
- · Lifter mechanism damaged

Clutch Operation Feels Rough

- · Outer drum slots rough
- Disc plate wave spring weak or damaged

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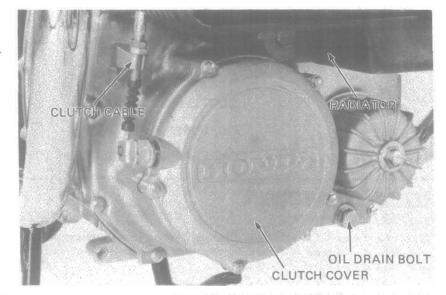


CLUTCH REMOVAL

Drain the oil from engine.

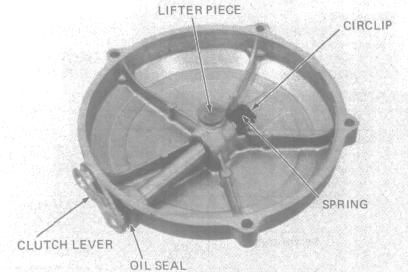
Disconnect the clutch cable at the lower adjust-

Remove the clutch cover.



CLUTCH LIFTER REMOVAL

Remove the lifter piece, circlip, spring, clutch lever and O-ring.

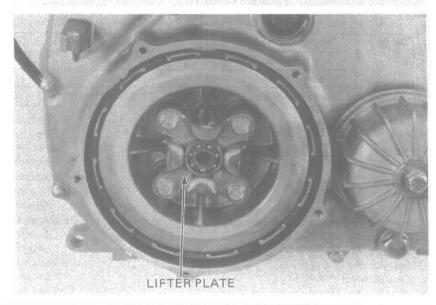


CLUTCH LIFTER PLATE REMOVAL

Remove the bolts, springs and lifter plate.

NOTE

Loosen the bolts in an X pattern in two or more steps.





CLUTCH REMOVAL

Attach the CLUTCH CENTER HOLDER on to the pressure plate boss with four, $6\times35~\text{mm}$ bolts.

NOTE

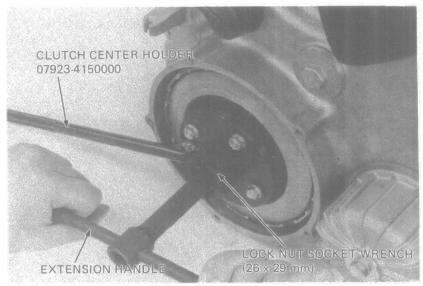
Tighten the bolts finger tight.

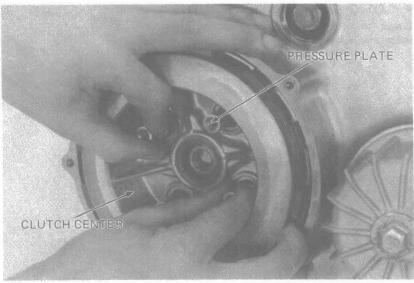
Remove the lock nut and lock washers.

CAUTION

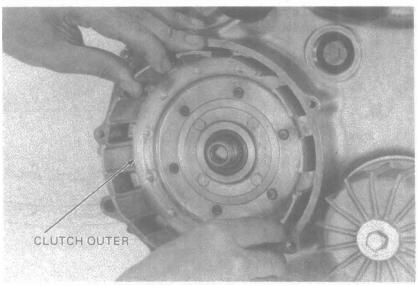
Damage to the pressure plate will occur, if the clutch center holder is not attached with 4 bolts.







Remove the clutch outer.
Remove the clutch outer guide and thrust washer.

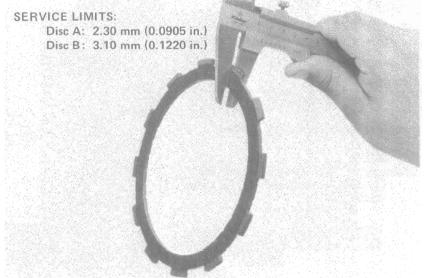




CLUTCH DISC INSPECTION

Replace the clutch discs if they show signs of scoring or discoloration.

Measure the disc thickness.



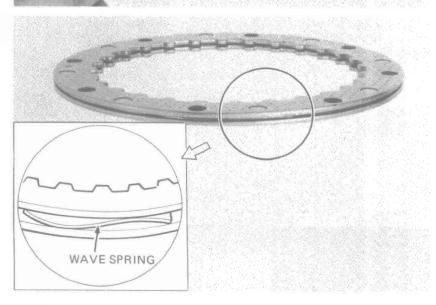
CLUTCH PLATE INSPECTION

Check for plate warpage on a surface plate, using a feeler gauge.



CLUTCH PLATE B INSPECTION

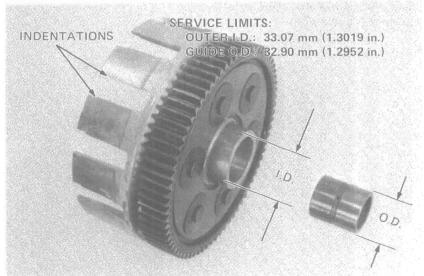
Check the wave spring for damage.



CLUTCH OUTER AND OUTER GUIDE INSPECTION

Check the slots in the outer drum for nicks, cuts or indentations made by the friction discs.

Measure the I.D. of the clutch outer and the O.D. of the outer guide.



CLUTCH SPRING INSPECTION

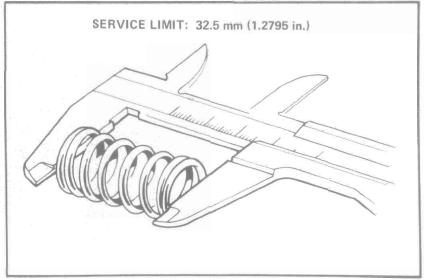
Measure the spring free length.

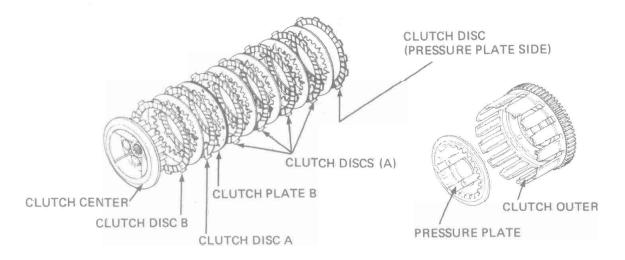
CLUTCH INSTALLATION

Install the clutch plates and discs in the clutch outer as shown.

NOTE

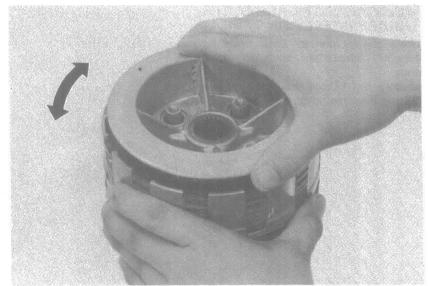
The disc on the pressure plate side is identified by the grooves in its lining.



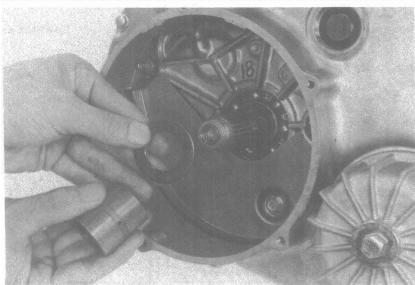




Install the clutch center, aligning the splines by rotating the clutch center.



Install the thrust washer and outer guide on the main shaft.



Install the clutch on the main shaft. Install the lock washer and lock nut.

NOTE

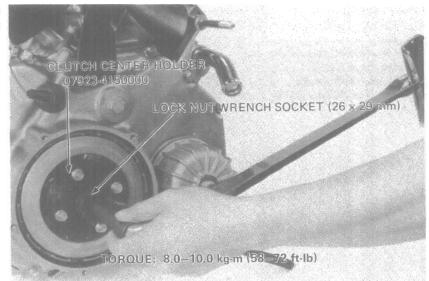
Be sure the washer and nut facing directions are correct.



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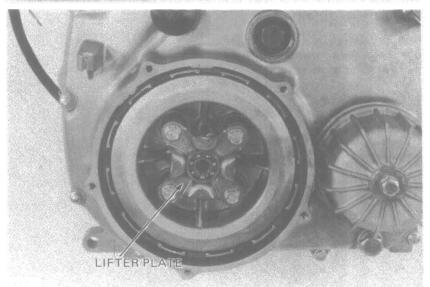
Attach the CLUTCH CENTER HOLDER to the pressure plate boss to prevent it from turning. Torque the lock nut.



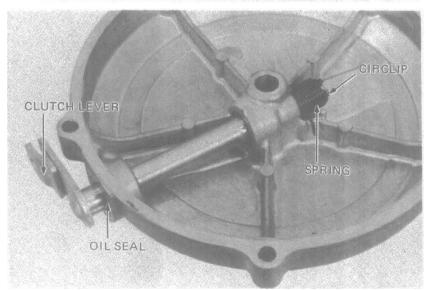
Install the clutch springs, lifter plate, and lifter plate bolts.

NOTE

Tighten the bolts evenly 2-3 steps using a criss cross pattern.



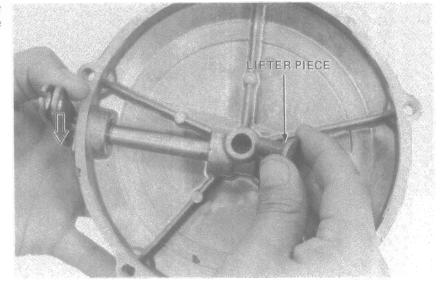
Install the oil seal in the clutch cover.
Install the clutch lever.
Install the spring and circlip.





Rotate the clutch lever to align hole in the lever with the hole in the clutch cover and insert the lifter piece.

Install the clutch cover gasket. Install the clutch cover. Connect the clutch cable. Adjust the clutch (Page 3-13).

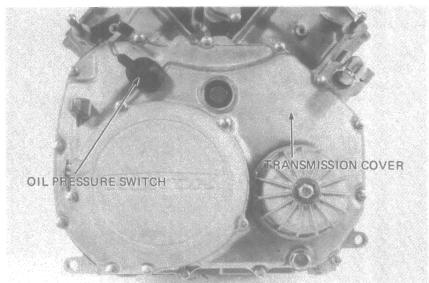


OIL PUMP REMOVAL

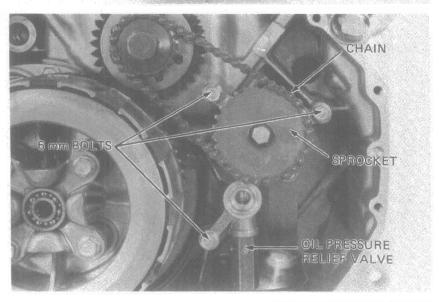
Drain the oil from the engine.
Disconnect the oil pressure switch.
Remove the transmission cover.

NOTE

When this operation is to be accomplished with the engine in the frame, remove the radiator and clutch cable at the lower adjuster.



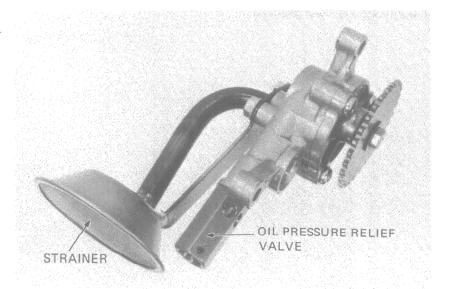
Remove the two, 6 mm bolts shown and the oil pump drive chain.



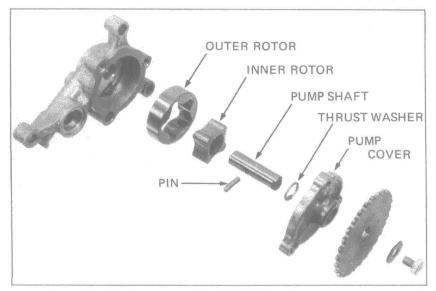


OIL PUMP DISASSEMBLY

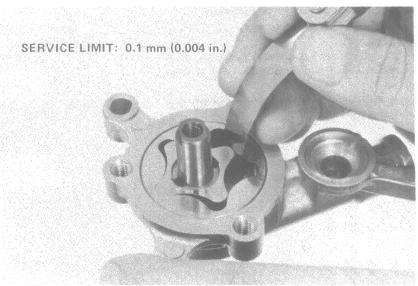
Remove the pressure relief valve and oil strainer. Inspect the strainer and clean with solvent.



Remove the sprocket.
Remove the pump cover, thrust washer, pump shaft, and driving pin.
Remove the inner and outer rotors.

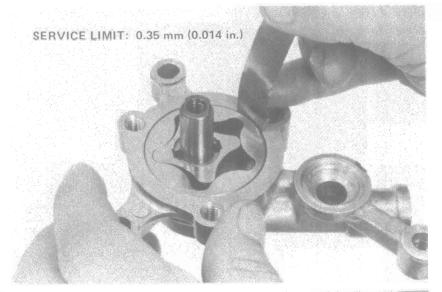


• OIL PUMP INSPECTION Measure pump tip clearance.

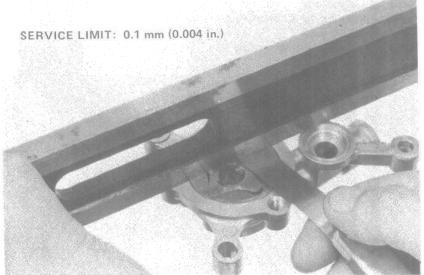




Measure the pump body clearance.



Measure the pump end clearance with a straight edge and feeler gauge.

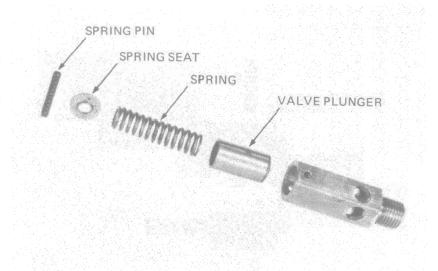


RELIEF VALVE INSPECTION

Remove the valve as an assembly and check its operation.

If the valve does not operate properly, disassemble it and check for a stuck valve or weak spring.

Replace the relief valve as a unit if the spring or plunger is damaged.





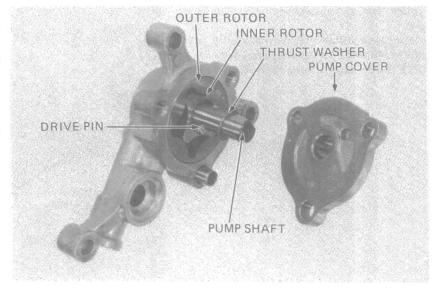
OIL PUMP ASSEMBLY

Insert the outer and inner rotors into the pump body.

Slide the drive pin into the pump shaft, and install the shaft.

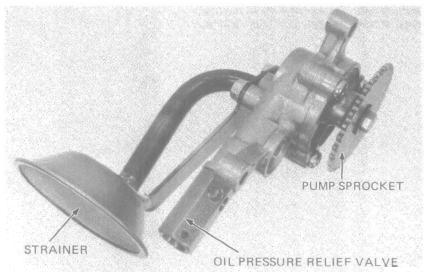
Install the thrust washer and drive pin.

Install the pump cover.



Install the oil strainer.

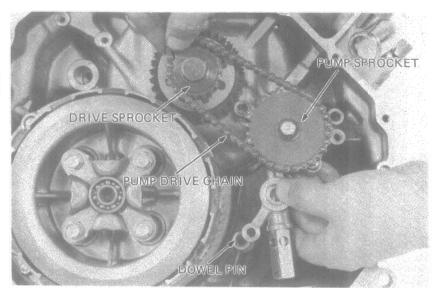
Install the oil pressure relief valve and pump sprocket. Do not tighten at this time.



OIL PUMP INSTALLATION

Install the dowel pin. Install the oil pump.

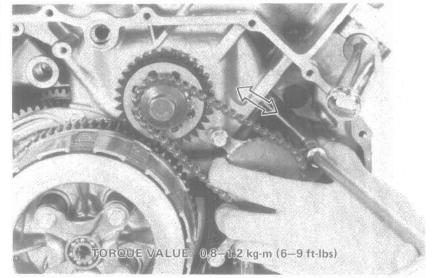
Do not tighten the mounting bolts at this time. Place the drive chain over the pump and drive sprockets.



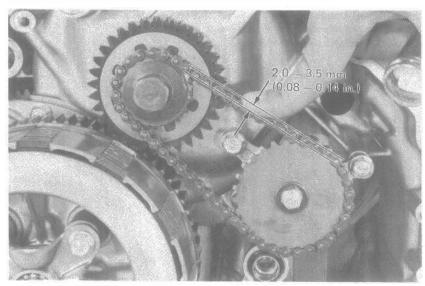


Tighten the pump sprocket bolt and relief valve.

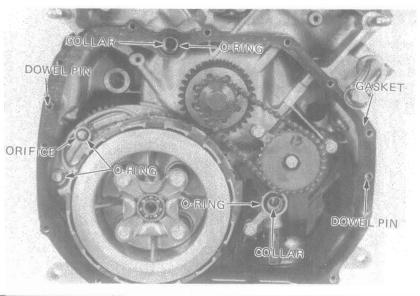
Adjust the chain free play by rotating the pump right or left, then torque the pump bolts. FREE PLAY: 2.0–3.5 mm (0.8–0.14 in)



Recheck the oil pump drive chain free play. FREE PLAY: 2.0-3.5 mm (0.08-0.14 in.)

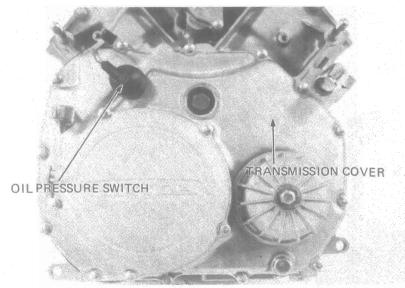


Install the dowel pins, collars, O-rings and gasket.





Install the transmission cover.
Connect the oil pressure switch.



Connect the clutch cable.

Adjust the clutch free play.

Install the radiator and fill to the proper level with coolant.

