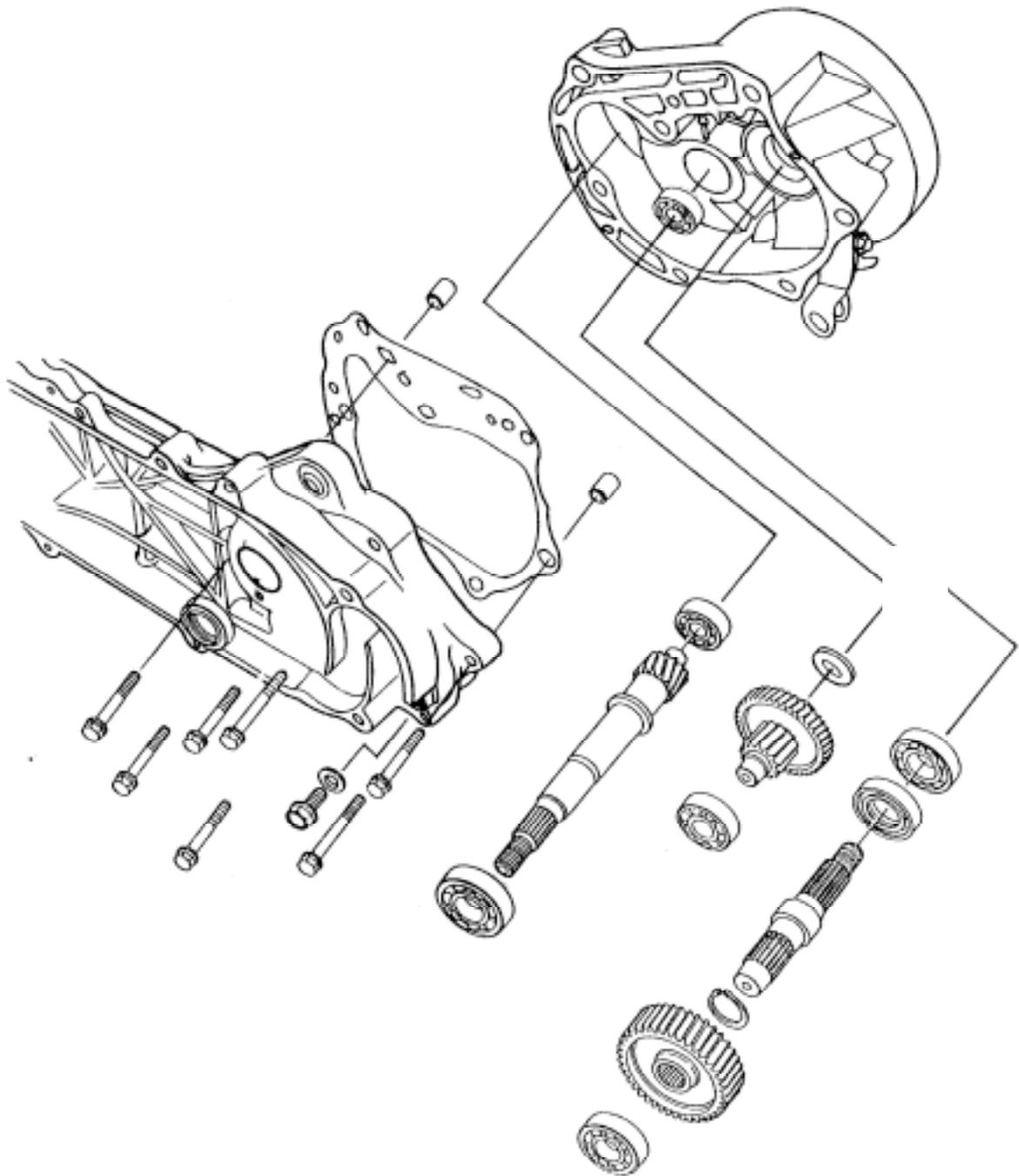


10.FINAL REDUCTION/ TRANSMISSION SYSTEM

FINAL REDUCTION/TRANSMISSION SYSTEM

SERVICE INFORMATION ----- 10- 2
TRANSMISSION CASE COVER----- 10- 3

10.FINAL REDUCTION/ TRANSMISSION SYSTEM



10.FINAL REDUCTION/ TRANSMISSION SYSTEM

SERVICE INFORMATION

GENERAL INSTRUCTIONS

- The transmission system can be serviced with the engine installed in the frame.
- When replacing the drive shaft, use a special tool to hold the bearing inner race for this operation.

SPECIFICATIONS

Specified Oil: GEAR OIL SAE 90#

Oil Capacity: At change : 0.11 liter
 At disassembly : 0.12 liter

TORQUE VALUES

Transmission case cover bolt 2.4_ 3.0kgf-m

TROUBLESHOOTING

Engine starts but ATV won't move

- Damaged transmission
- Seized or burnt transmission

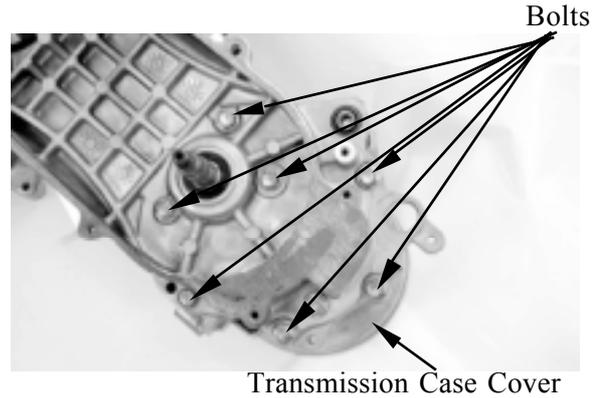
Oil leaks

- Oil too rich
- Worn or damaged oil seal

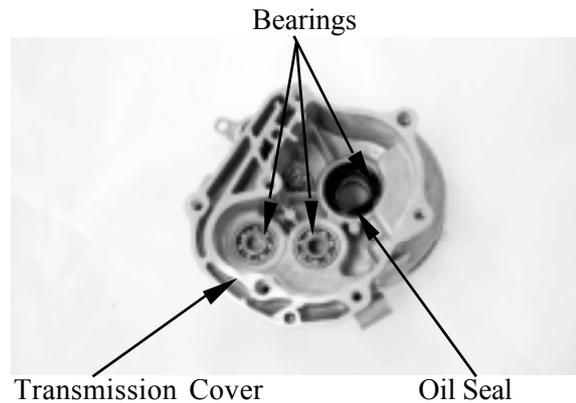
10.FINAL REDUCTION/ TRANSMISSION SYSTEM

TRANSMISSION CASE COVER REMOVAL

Remove the drive sprocket. (⇒6-2)
Remove the left crankcase cover. (⇒9-2)
Remove the clutch/driven pulley. (⇒9-10)
Drain the transmission gear oil into a clean container.
Remove the transmission case cover attaching bolts.
Remove the transmission case cover.
Remove the gasket and dowel pins.

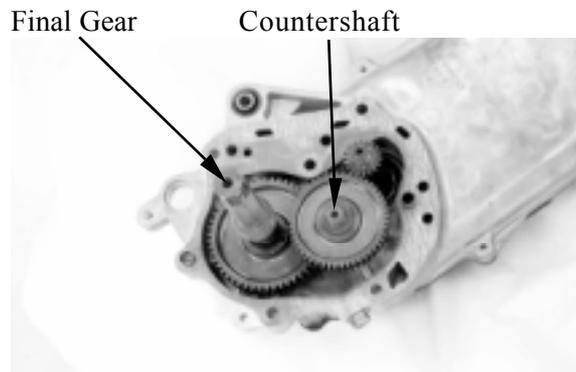


Inspect the bearings for allow play in the transmission case cover or the bearings turn roughly.
If any defects are found, replace the bearing with a new one.
Inspect the final shaft bearing oil seal for wear or damage.

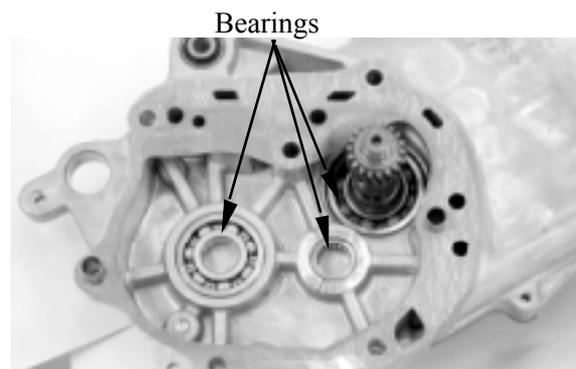


* Do not remove the transmission case cover except for necessary part replacement. When replacing the drive shaft, also replace the bearing and oil seal.

Remove the final gear and countershaft.



Inspect the bearings for allow play in the transmission case cover or the bearing turns roughly.
If any defects are found, replace the bearing with a new one.

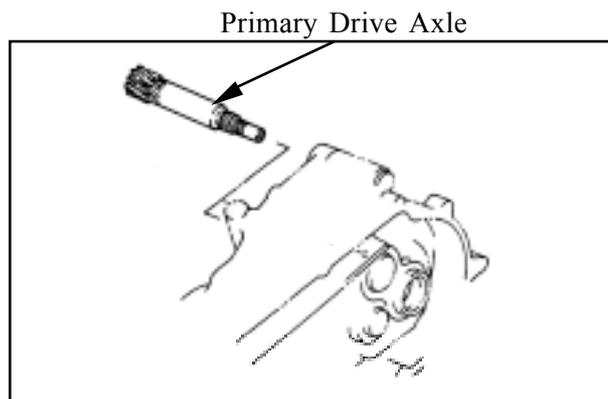


10.FINAL REDUCTION/ TRANSMISSION SYSTEM

PRIMARY DRIVE AXLE REMOVAL

Remove the clutch/friven pulley. (Refer to chapter 9)

Remove the primary drive axle.



Inspect the final gear teeth.

Blue discoloration/pitting/wear _ Replace.



Inspect the countershaft gear teeth.

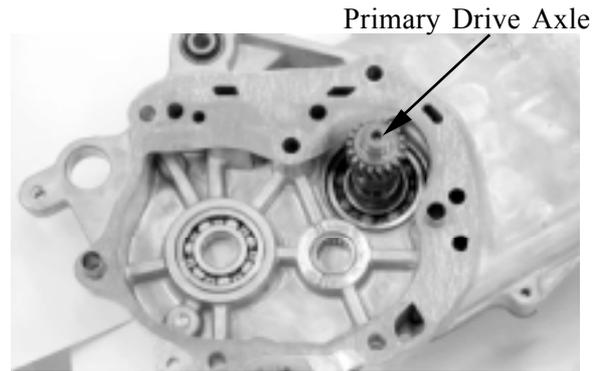
Blue discoloration/pitting/wear _ Replace.



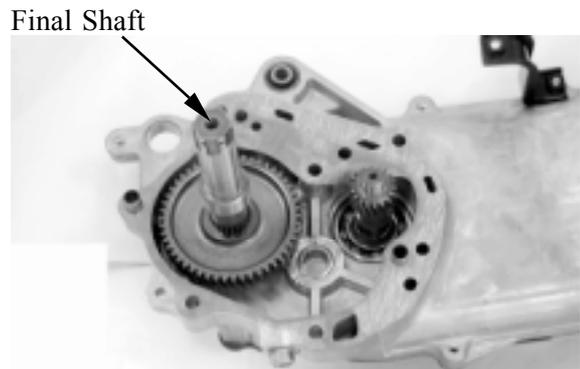
10.FINAL REDUCTION/ TRANSMISSION SYSTEM

INSTALLATION

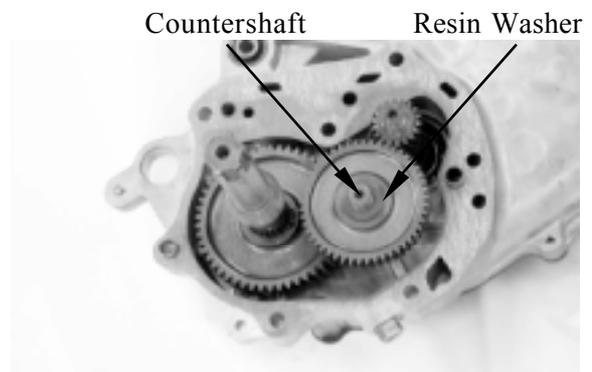
Reverse the “TRANSMISSION REVOVAL” section procedures.
Install the primary drive axle into the left crankcase.



Install the final gear and final shaft into left crankcase.



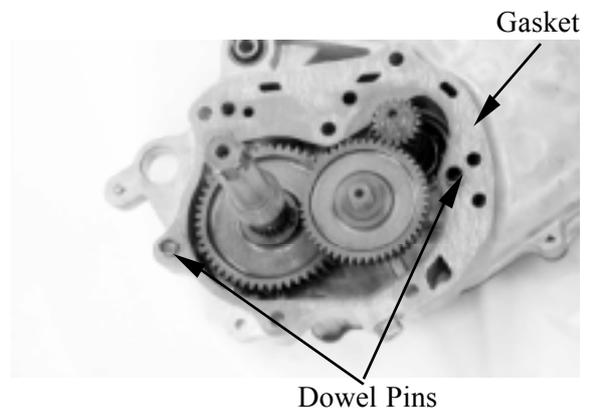
Install the countershaft and washer into the left crankcase.
Install the resin washer onto countershaft.



Install the dowel pins and a new gasket onto the right crankcase.

Install the transmission case cover and tighten the transmission case cover bolt.

Torque: 2.4_ 3.0kgf-m



10.FINAL REDUCTION/ TRANSMISSION SYSTEM

Fill the engine with oil and install the oil filler bolt. (Refer to the “TRANSMISSION OIL REPLACEMENT” section in the chapter 3)

Specified Gear Oil:

KYMCO SIGMA GEAR OIL 90#

Oil Capacity:

At disassembly : 0.12 liter

At change : 0.11liter