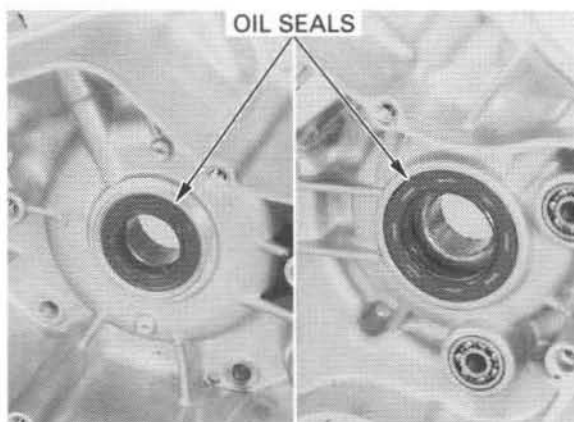


CRANKSHAFT BEARING

Remove the crankshaft oil seals and bearings from both crankcase halves.

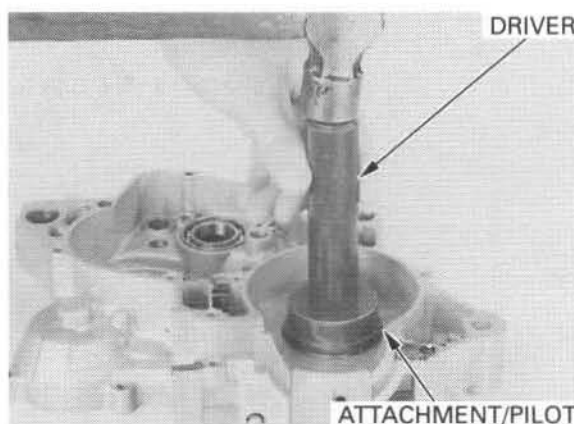


Drive in the new bearings squarely.

Drive in the new crankshaft bearings into both crankcase using the special tools as shown.

TOOLS:

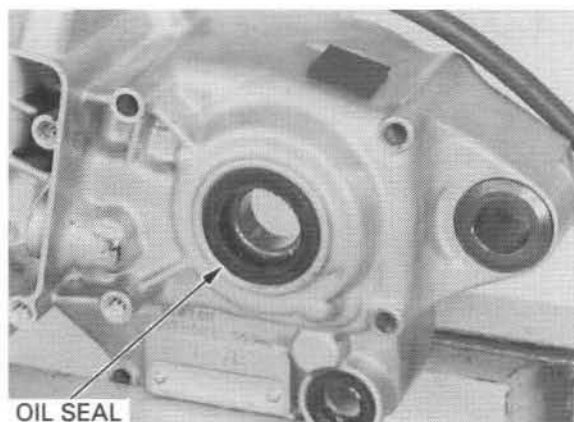
Driver	07749 - 0010000
Attachment, 52 x 55 mm	07746 - 0010400
Pilot, 22 mm	07746 - 0041000



TRANSMISSION BEARINGS

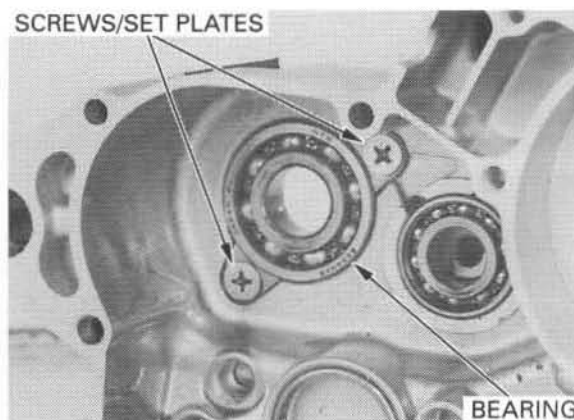
LEFT CRANKCASE

Remove the countershaft oil seal.



Remove the screws and countershaft bearing set plates.

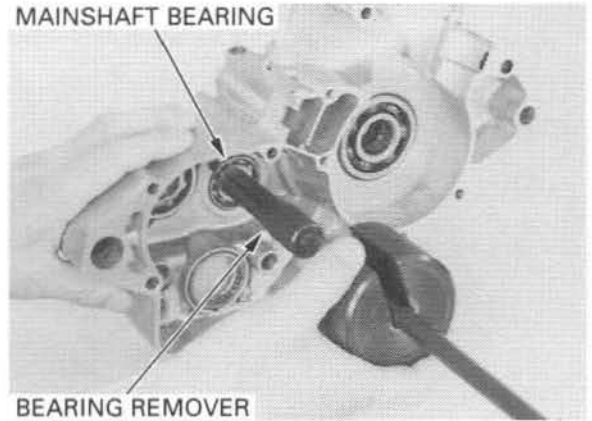
Remove the countershaft bearing and shift drum bearing.



Remove the mainshaft bearing using the special tools as shown.

TOOLS:

- | | |
|-------------------------------|---|
| Bearing remover, 17 mm | 07936 - 3710300 |
| - Remover handle | 07936 - 3710100 |
| - Remover weight | 07741 - 0010201 or
07936 - 371020A or
07936 - 3710200 |



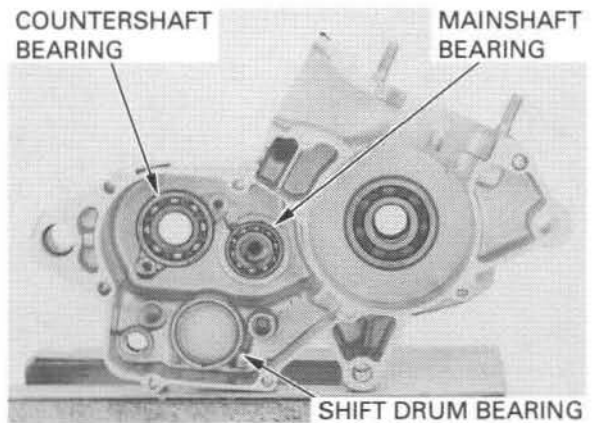
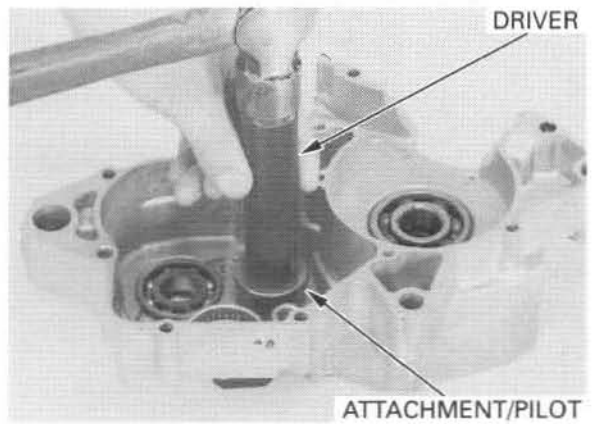
Drive in the new bearings squarely. Drive in new bearings into the left crankcase using the special tools as shown.

TOOLS:

- | | |
|----------------------------|-----------------|
| Shift drum bearing: | |
| Driver | 07749 - 0010000 |
| Attachment, 37 x 40 mm | 07746 - 0010200 |

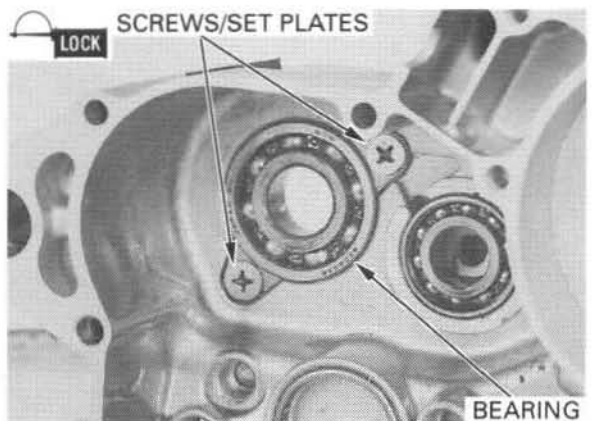
- | | |
|---------------------------|-----------------|
| Mainshaft bearing: | |
| Driver | 07749 - 0010000 |
| Attachment, 37 x 40 mm | 07746 - 0010200 |
| Pilot, 17 mm | 07746 - 0040400 |

- | | |
|------------------------------|-----------------|
| Countershaft bearing: | |
| Driver | 07749 - 0010000 |
| Attachment, 42 x 47 mm | 07746 - 0010300 |
| Pilot, 20 mm | 07746 - 0040500 |



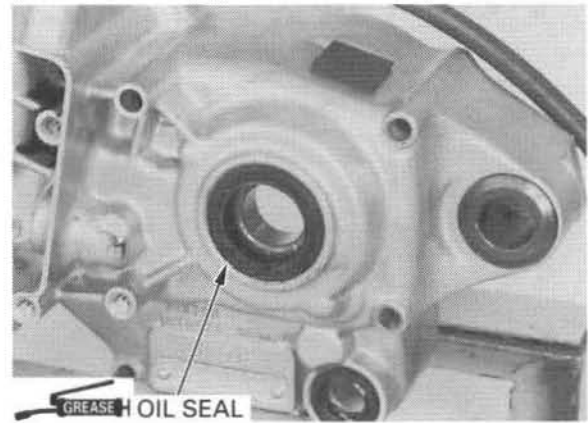
Clean and apply a locking agent to the countershaft bearing set plate screws and tighten the screws with the set plates.

TORQUE: 10 N·m (1.0 kgf·m, 7 lbf·ft)



CRANKCASE/CRANKSHAFT/TRANSMISSION

Apply grease to the countershaft oil seal lips.
Install the countershaft oil seal flush with the case as shown.

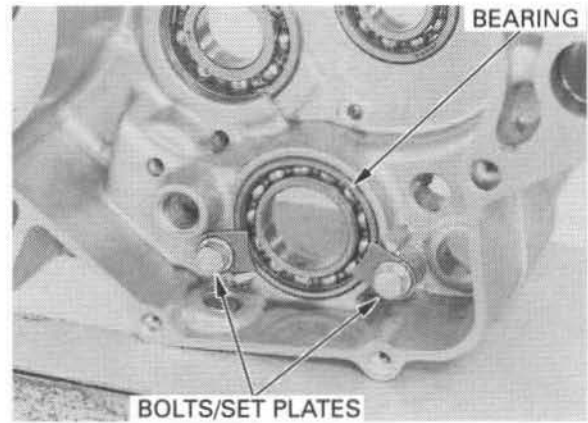


RIGHT CRANKCASE

Remove the mainshaft and countershaft bearings.

Remove the shift drum bearing set plate bolts and set plates.

Remove the shift drum bearing.



Drive in the new bearings squarely.

Drive in new bearings into the right crankcase.

TOOLS:

Shift drum bearing:

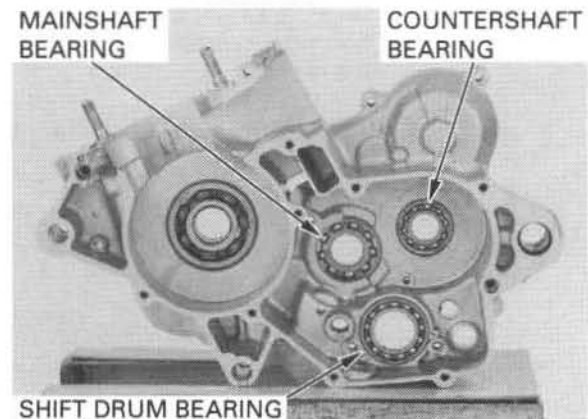
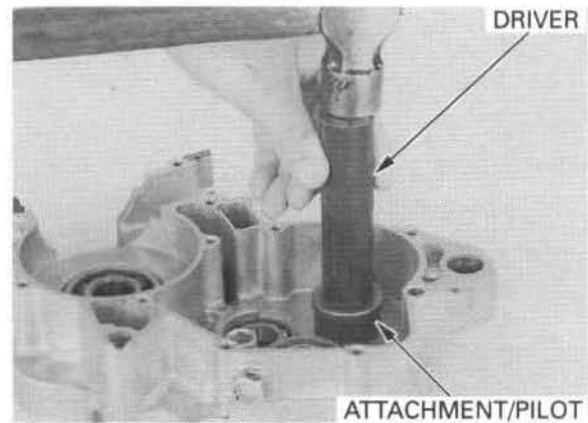
Driver	07749 - 0010000
Attachment, 37 x 40 mm	07746 - 0010200
Pilot, 25 mm	07746 - 0040600

Mainshaft bearing:

Driver	07749 - 0010000
Attachment, 42 x 47 mm	07746 - 0010300
Pilot, 20 mm	07746 - 0040500

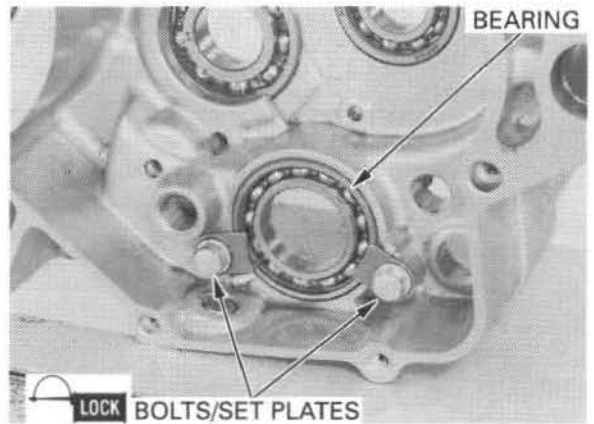
Countershaft bearing:

Driver	07749 - 0010000
Attachment, 37 x 40 mm	07746 - 0010200
Pilot, 17 mm	07746 - 0040400



Clean and apply a locking agent to the shift drum bearing set plate bolts and tighten the bolts with the set plates.

TORQUE: 10 N·m (1.0 kgf·m, 7 lbf·ft)

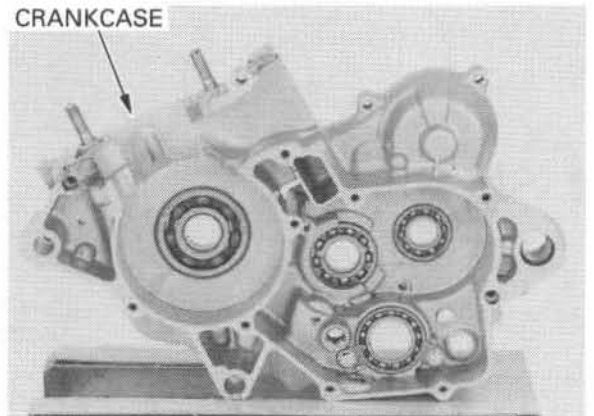


CRANKSHAFT INSTALLATION

Clean both crankcase mating surfaces before assembling and check for wear or damage.

NOTE:

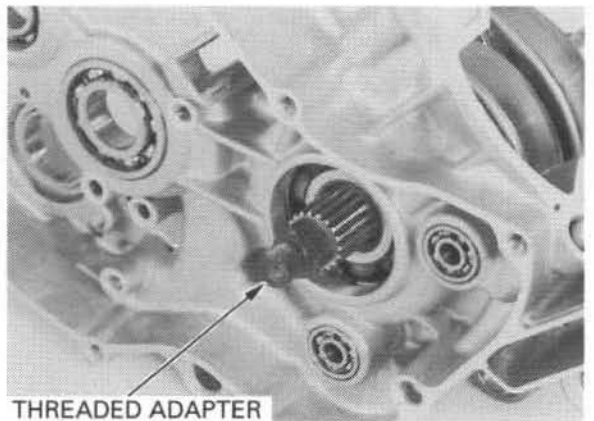
- If there is minor roughness or irregularities on the crankcase mating surfaces, dress them with an oil stone.
- After cleaning, lubricate the crankshaft bearings with recommended clean 2-stroke oil.



Install the threaded adapter on to the crankshaft.

TOOL:

Threaded adapter 07965 - KA30000



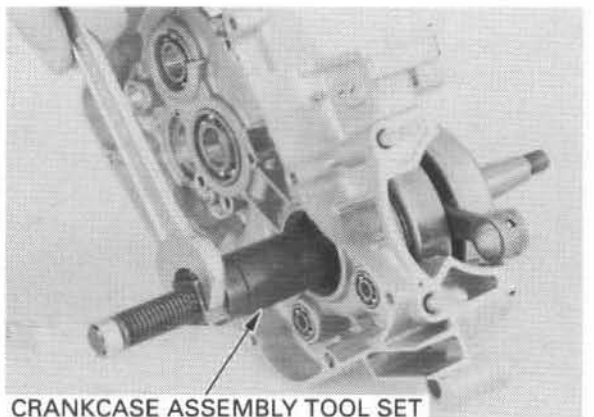
Install the crankshaft into the right crankcase using the special tools.

TOOLS:

Crankcase assembly tool set 07965 - 1660102 Not available in U.S.A. or 07965 - 1660101 or 07965 - 1660100

- Assembly tool shaft 07965 - 1660200

- Assembly collar 07965 - 1660302 or 07965 - 1660301 or 07965 - 1660300 or 07965 - 166030A (U.S.A. only)



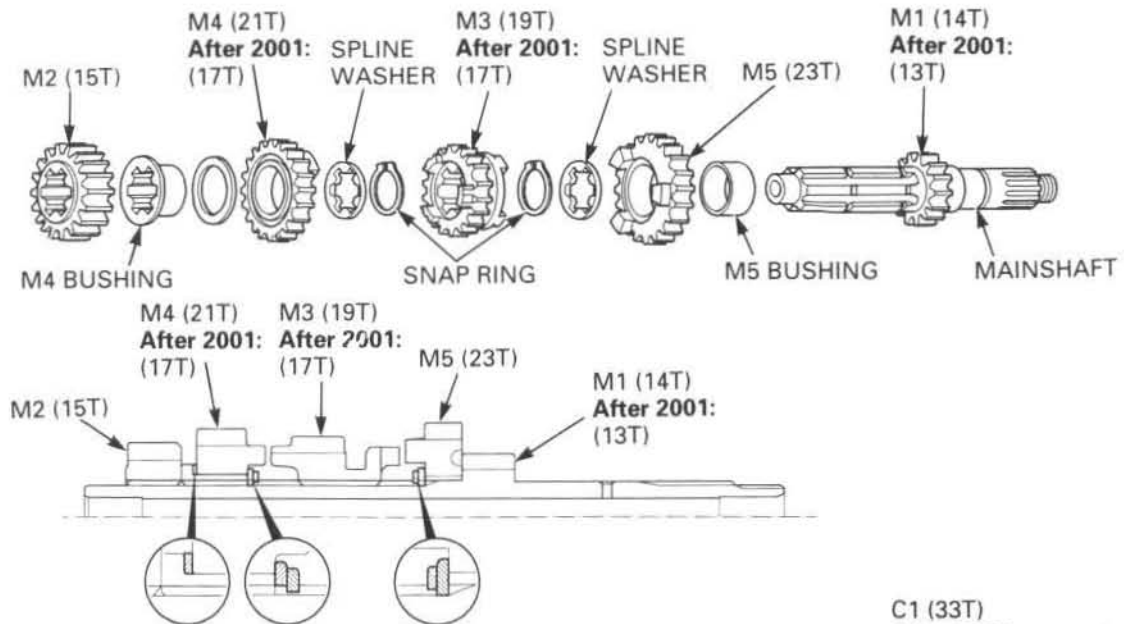
TRANSMISSION ASSEMBLY

NOTE:

- Check the gear freedom of movement or rotation on the shaft.
- Install the washers and snap rings with the chamfered edge facing the thrust load side.
- Do not reuse worn snap rings which could easily spin in the grooves.
- Check that the snap rings are seated in the grooves. Align their end gaps with the grooves of the spline.

Clean all parts in solvent.
Assemble all parts into original positions.

MAINSHAFT:



COUNTERSHAFT:

