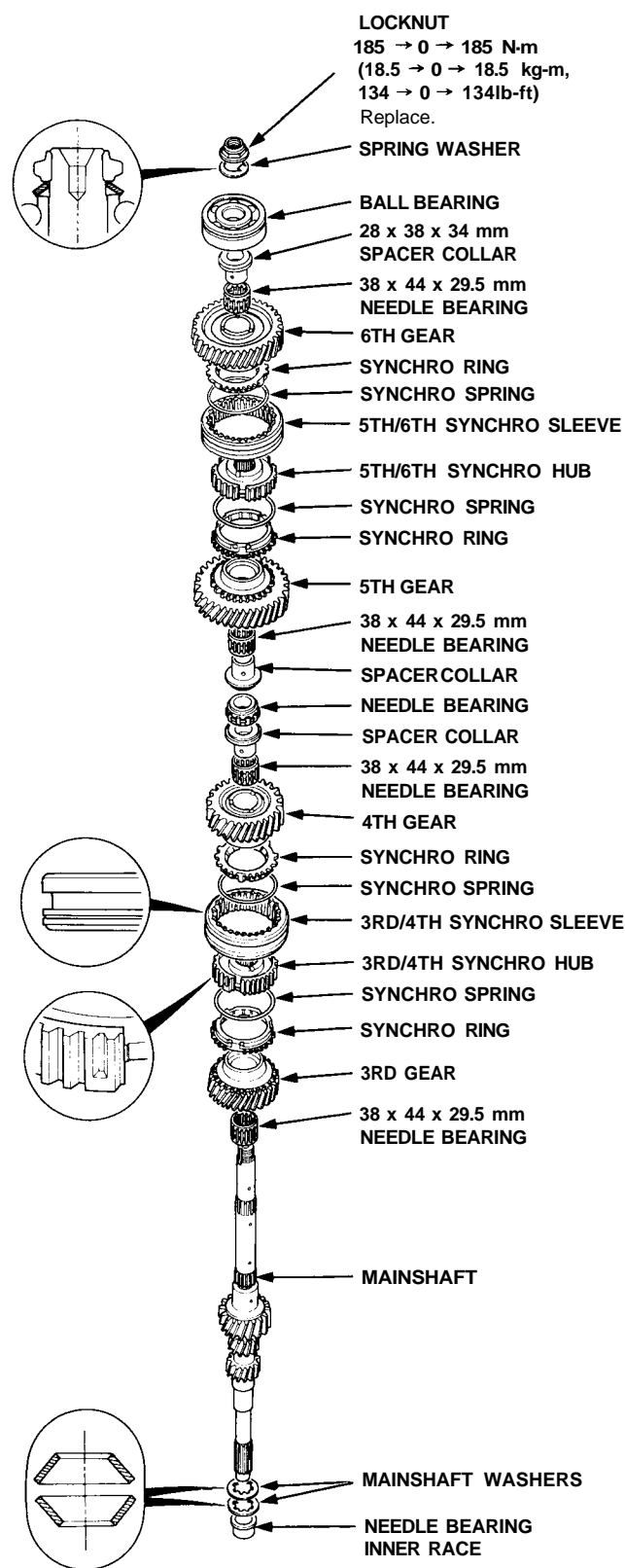
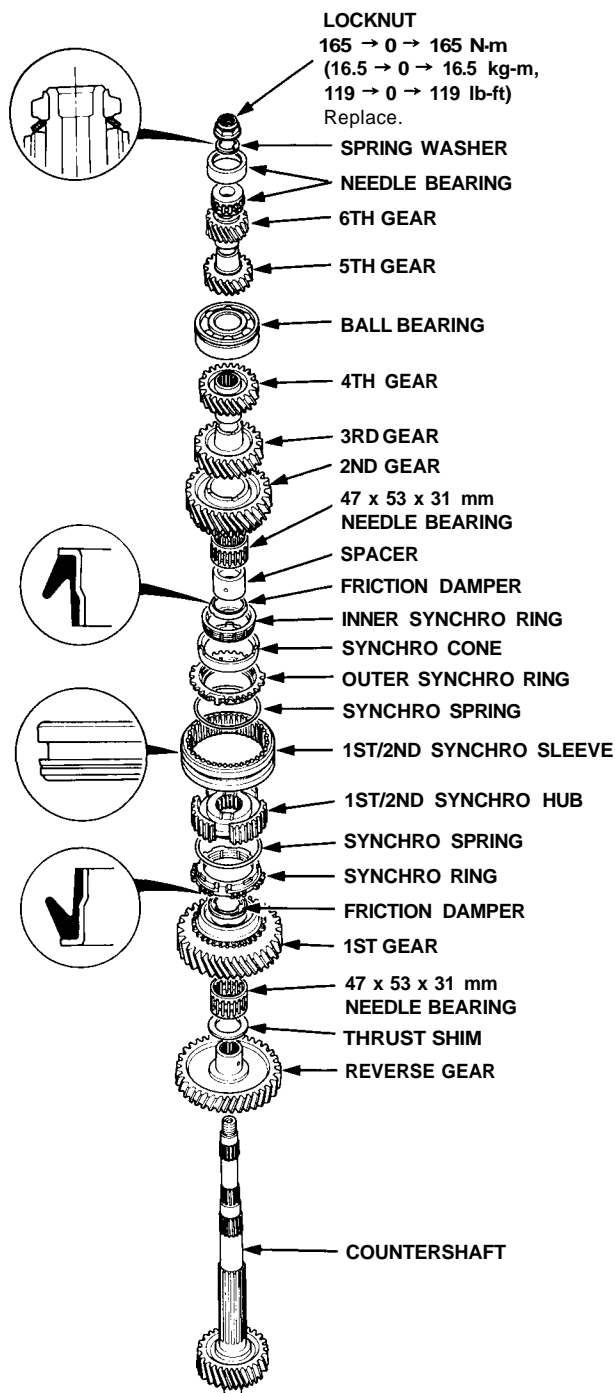




Mainshaft/Countershaft

Reassembly, Clearance Inspection

1. Reassemble the mainshaft and countershaft as shown.

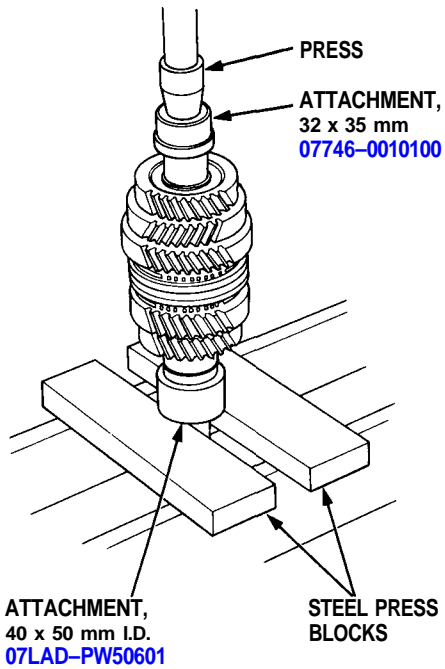


(cont'd)

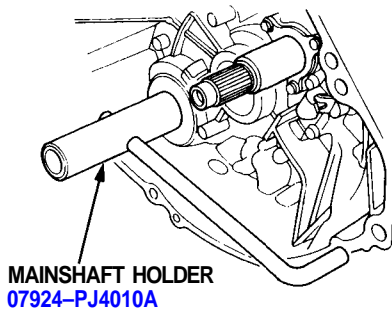
Mainshaft/Countershaft

Reassembly, Clearance Inspection (cont'd)

1. Support the countershaft on steel press blocks using the special tool and press together.



2. Install the mainshaft and countershaft on the clutch housing.
3. Install the special tool, then shift the 1st/2nd synchro sleeve to the 1st gear side.



4. Tighten the locknuts.

NOTE: Countershaft locknut has left-hand threads.

LOCKNUT:

MAINSHAFT:

185 → 0 → 185 N-m

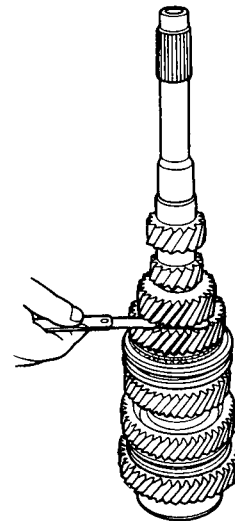
(18.5 → 0 → 18.5 kg-m, 134 → 0 → 134 lb-ft)

COUNTERSHAFT:

165 → 0 → 165 N-m

(16.5 → 0 → 16.5 kg-m, 119 → 0 → 119 lb-ft)

5. Measure the clearance using a feeler gauge.



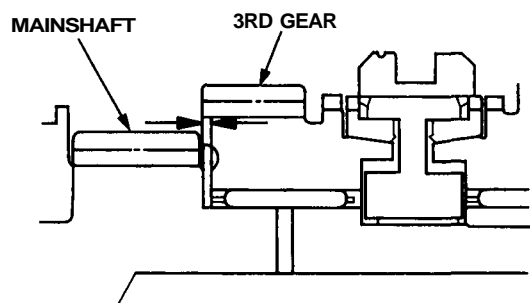


NOTE: If replacement is required, always replace the synchro hub and synchro sleeve as a set.

Mainshaft:

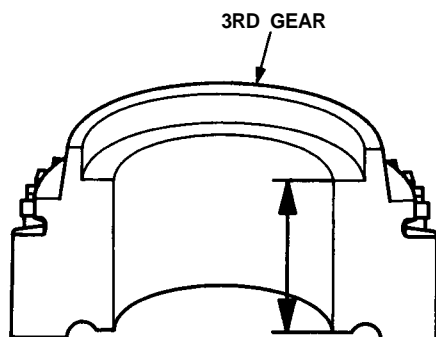
1. Measure the clearance between 3rd gear and mainshaft.

Standard: 0.06 — 0.19 mm (0.002 — 0.008 in)
Service Limit: 0.30 mm (0.012 in)



2. If the clearance exceeds the service limit, measure the thickness of 3rd gear.

Standard: 31.39 — 31.47 mm (1.236 — 1.239 in)
Service Limit: 31.32 mm (1.233 in)

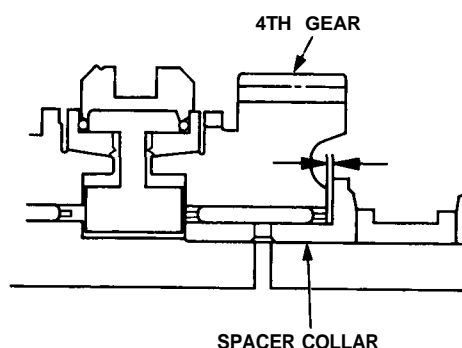


If the thickness is less than the service limit, replace 3rd gear.

If the thickness is within the service limit, replace the 3rd/4th synchro hub.

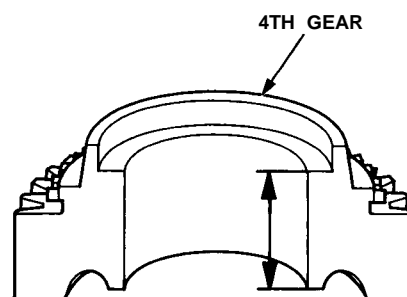
3. Measure the clearance between 4th gear and the spacer collar.

Standard: 0.06 — 0.19 mm (0.002 — 0.008 in)
Service Limit: 0.30 mm (0.012 in)



4. If the clearance exceeds the service limit, measure the thickness of 4th gear.

Standard: 29.39 — 29.47 mm (1.157 — 1.160 in)
Service Limit: 29.32 mm (1.154 in)



If the thickness is less than the service limit, replace 4th gear.

If the thickness is within the service limit, replace the 3rd/4th synchro hub.

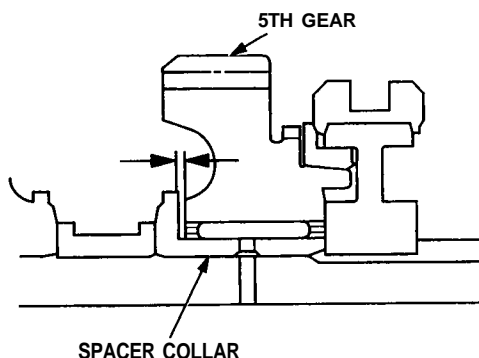
(cont'd)

Mainshaft/Countershaft

Reassembly, Clearance Inspection (cont'd)

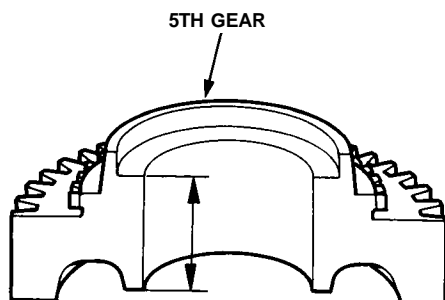
5. Measure the clearance between 5th gear and the spacer collar.

Standard: 0.06 — 0.19 mm (0.002 — 0.008 in)
Service Limit: 0.30 mm (0.012 in)



6. If the clearance exceeds the service limit, measure the thickness of 5th gear.

Standard: 29.39 — 29.47 mm (1.157 — 1.160 in)
Service Limit: 29.32 (1.154 in)

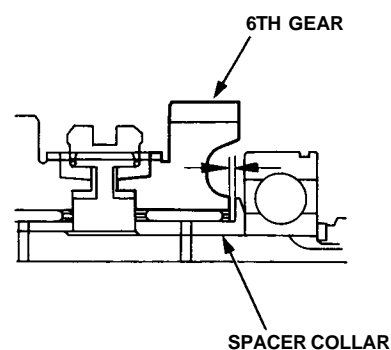


If the thickness is less than the service limit, replace 5th gear.

If the thickness is within the service limit, replace the 5th/6th synchro hub.

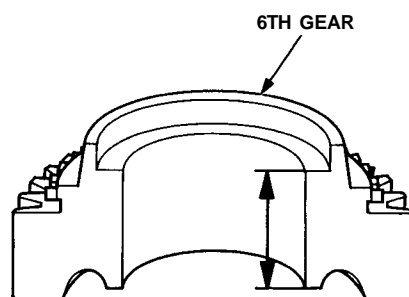
7. Measure the clearance between 6th gear and the spacer collar.

Standard: 0.06 — 0.19 mm (0.002 — 0.008 in)
Service Limit: 0.30 mm (0.012 in)



8. If the clearance exceeds the service limit, measure the thickness of 6th gear.

Standard: 29.39 — 29.47 mm (1.157 — 1.160 in)
Service Limit: 29.32 mm (1.154 in)



If the thickness is less than the service limit, replace 6th gear.

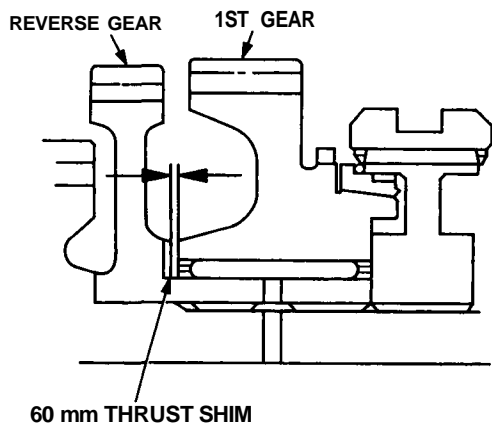
If the thickness is within the service limit, replace the 5th/6th synchro hub.



Countershaft:

1. Measure the clearance between 1st gear and the 60 mm thrust shim.

Standard: 0.04 — 0.10 mm (0.002 — 0.005 in)



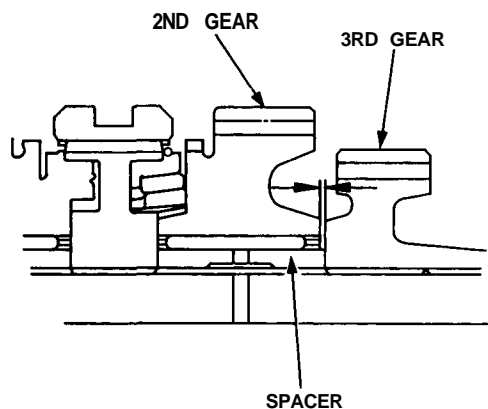
2. If the clearance exceeds the standard, select the appropriate 60 mm thrust shim for the correct clearance from the chart below.

60 mm THRUST SHIM

	Part Number	Thickness
A	23971-PY5-000	1.42 mm (0.0559 in)
B	23972-PY5-000	1.46 mm (0.0575 in)
C	23973-PY5-000	1.50 mm (0.0591 in)
D	23974-PY5-000	1.54 mm (0.0606 in)

3. Measure the clearance between 2nd gear and 3rd gear.

Standard: 0.04 — 0.10 mm (0.002 — 0.005 in)



4. If the clearance exceeds the standard, select the appropriate spacer for the correct clearance.

SPACER

	Part Number	Thickness
A	23911-PY5-000	33.007 — 33.009 mm (1.2995 — 1.2996 in)
B	23912-PY5-000	33.003 — 33.005 mm (1.2993 — 1.2994 in)