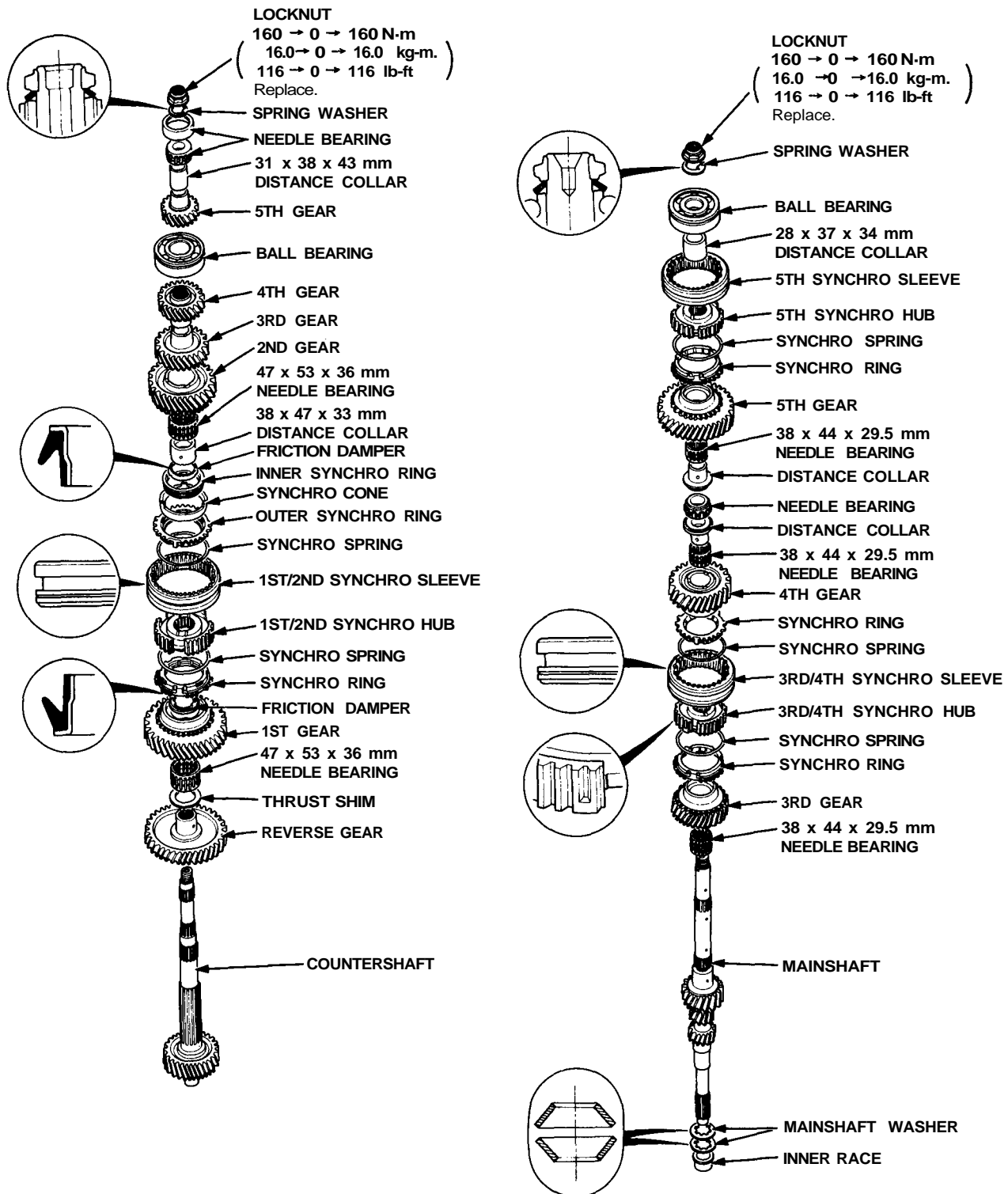


# Mainshaft/Countershaft

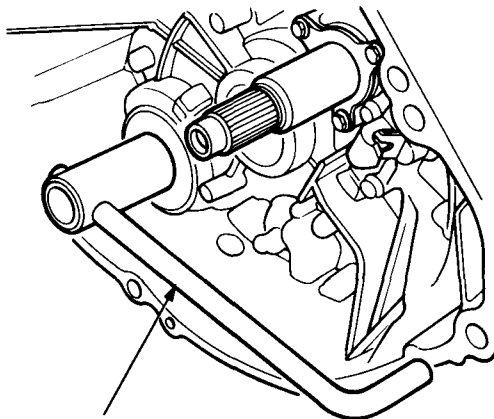
## Reassembly, Clearance Inspection

1. Reassemble the mainshaft and countershaft as shown.





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.



MAINSHAFT HOLDER  
07924-PJ4010A

4. Tighten the locknut.

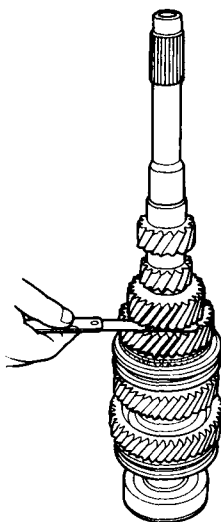
NOTE: Countershaft locknut has left-hand threads.

LOCKNUT

160 → 0 → 160 N·m

(16 → 0 → 16 kg-m, 116 lb-ft → 0 → 116 lb-ft)

5. Measure the clearance using a feeler gauge.

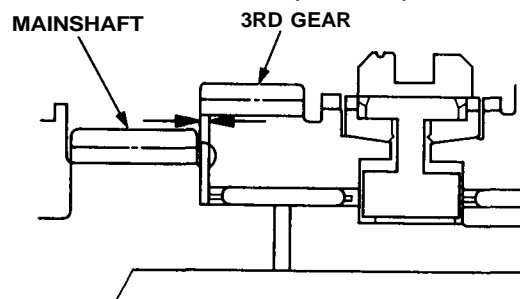


**Mainshaft:**

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

Standard: 0.06 – 0.19 mm  
(0.0024 – 0.0075 in)

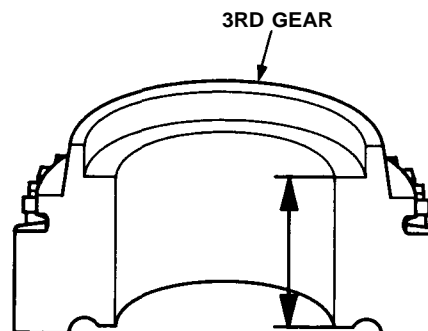
Service Limit: 0.3 mm (0.0118 in)



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

Standard: 31.39 – 31.47 mm  
(1.2358 – 1.2390 in)

Service Limit: 31.32 mm (1.2331 in)



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

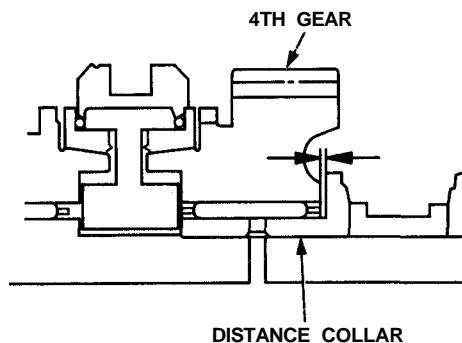
(cont'd)

# Mainshaft/Countershaft

## Reassembly, Clearance Inspection (cont'd)

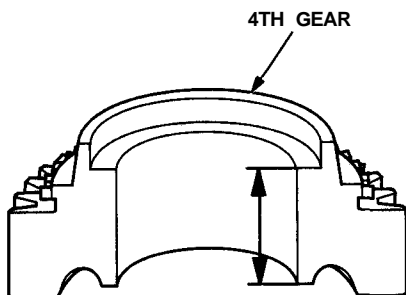
3. Measure the clearance between the 4th gear and distance collar.

**Standard:** 0.06–0.19 mm  
(0.0024–0.0075 in)  
**Service Limit:** 0.3 mm (0.0118 in)



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

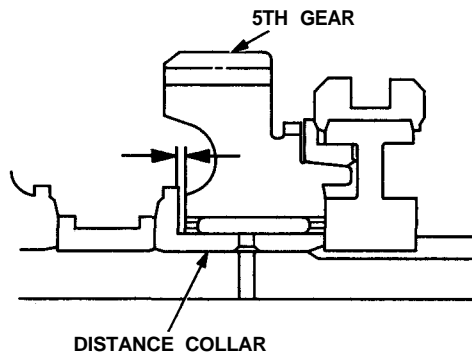
**Standard:** 29.39–29.47 mm  
(1.1571–1.1602 in)  
**Service Limit:** 29.32 mm (1.1543 in)



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

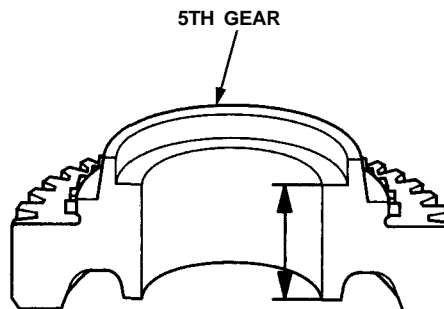
5. Measure the clearance between the 5th gear and distance collar.

**Standard:** 0.06–0.19 mm  
(0.0024–0.0075 in)  
**Service Limit:** 0.3 mm (0.0118 in)



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

**Standard:** 29.39–29.47 mm  
(1.1571–1.1602 in)  
**Service Limit:** 29.32 mm (1.1543 in)



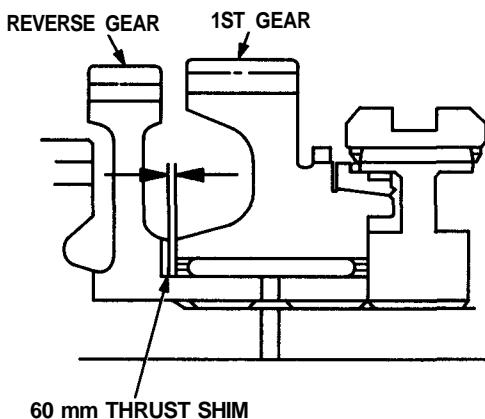
If the thickness is less than the service limit, replace 5th gear.



#### Countershaft:

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

**Standard: 0.04–0.10 mm (0.0016–0.0047 in)**



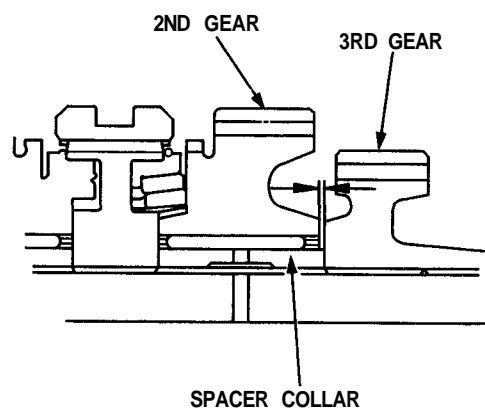
2. If the clearance exceeds the service limit, select the appropriate 60 mm thrust shim for the correct clearance from the chart below.

#### 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 the 2nd gear and 3rd gear.

**Standard: 0.04–0.10 mm (0.0016–0.0047 in)**



4. If the clearance exceeds the service limit, select the appropriate spacer collar for the correct clearance.

#### SPACER COLLAR

	Part Number	Thickness
A	23911-PY5-000	36.07–36.09 mm (1.4201–1.4209 in)
B	23912-PY5-000	36.03–36.05 mm (1.4185–1.4193 in)