

Mainshaft, Countershaft

Inspection

Mainshaft:

1. Inspect the mainshaft surface for wear and damage, then measure the mainshaft at points A, B, C and D.

Standard: A (Needle bearing surface):

27.977 — 27.990 mm
(1.1015 — 1.1020 in)

B (Needle bearing surface):

37.989 — 38.000 mm
(1.4956 — 1.4961 in)

C (Needle bearing surface):

30.987 — 31.000 mm
(1.2200 — 1.2205 in)

D (Ball bearing surface):

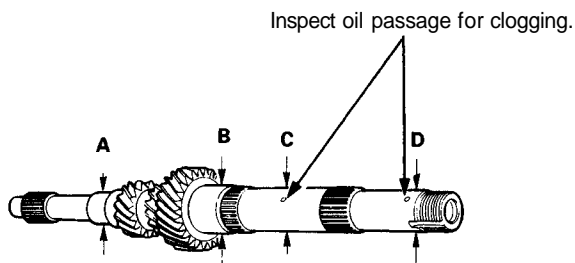
27.987 — 28.000 mm
(1.1018 — 1.1024 in)

Service Limit: A: 27.930 mm (1.0996 in)

B: 37.935 mm (1.4935 in)

C: 30.940 mm (1.2181 in)

D: 27.937 mm (1.0999 in)

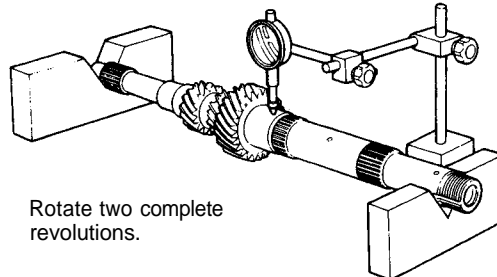


- If any part of the mainshaft is less than the service limit, replace the mainshaft with a new one.

2. Inspect for runout.

Standard: 0.02 mm (0.001 in) max.

Service Limit: 0.05 mm (0.002 in)



- If the runout is more than the service limit, replace the mainshaft with a new one.



Countershaft:

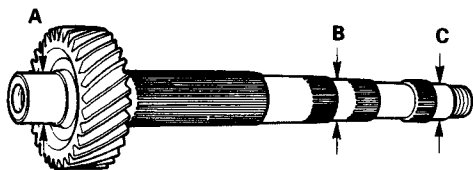
1. Inspect the countershaft surface for wear and damage, then measure the countershaft at points A, B and C.

Standard: **A (Needle bearing surface):**
33.000 — 33.015 mm
(1.2992 — 1.2998 in)

B (Ball bearing surface):
31.975 — 31.988 mm
(1.2589 — 1.2594 in)

C (Needle bearing surface):
27.987 — 28.000 mm
(1.1018 — 1.1024 in)

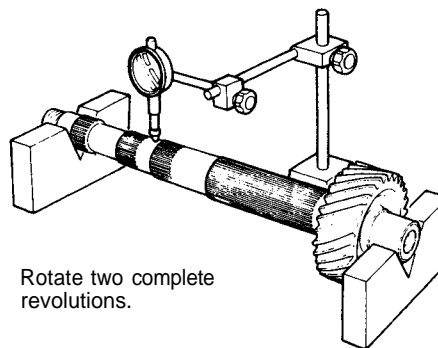
Service Limit: **A:** 32.950 mm (1.2972 in)
B: 31.928 mm (1.2570 in)
C: 27.937 mm (1.0999 in)



- If any part of the countershaft is less than the service limit, replace the countershaft with a new one.

2. Inspect for runout.

Standard: 0.02 mm (0.001 in) max.
Service Limit: 0.05 mm (0.002 in)



- If the runout is more than the service limit, replace the countershaft with a new one.