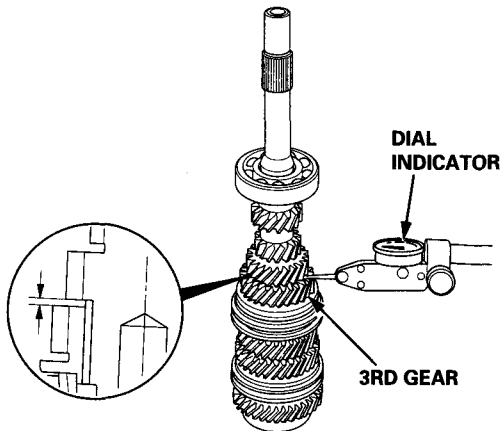


# Mainshaft Assembly

## Clearance Inspection

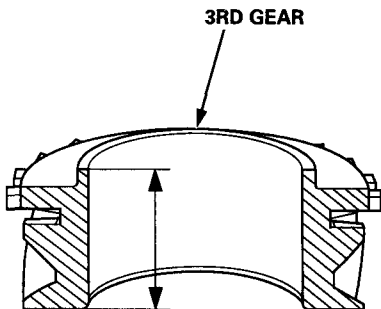
1. Measure the clearance between 2nd and 3rd gears.

**Standard:** 0.06 - 0.19 mm  
(0.002 - 0.007 in)  
**Service Limit:** 0.3 mm (0.012 in)



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

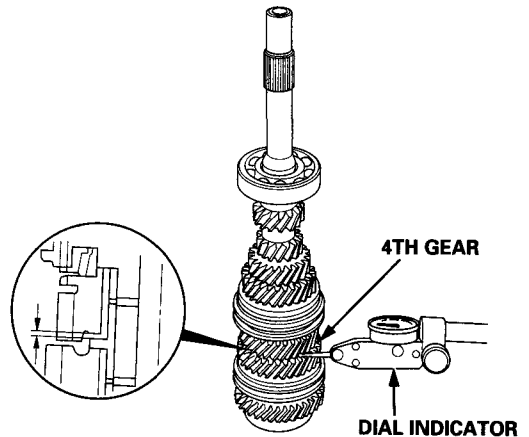
**Standard:** 30.39 - 30.47 mm  
(1.196 - 1.200 in)  
**Service Limit:** 30.30 mm (1.193 in)



If the thickness of 3rd gear is less than the service limit, replace 3rd gear with a new one.  
If the thickness of 3rd gear is within the service limit, replace the 3rd/4th synchro hub with a new one.

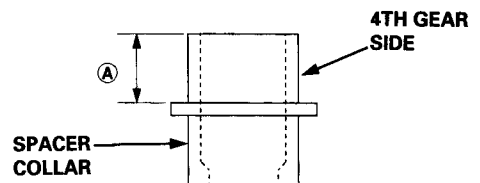
3. Measure the clearance between 4th gear and the spacer collar.

**Standard:** 0.06 - 0.19 mm  
(0.002 - 0.007 in)  
**Service Limit:** 0.3 mm (0.012 in)



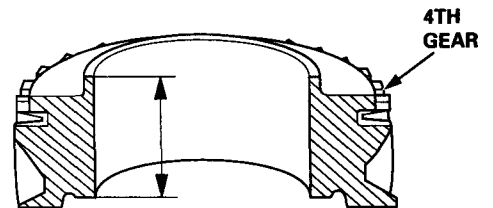
4. If the clearance exceeds the service limit, measure distance (A) on the spacer collar.

**Standard:** 26.53 - 26.58 mm  
(1.044 - 1.046 in)  
**Service Limit:** 26.51 mm (1.044 in)



5. If distance (A) is less than the service limit, replace the spacer collar with a new one.  
If distance (A) is within the service limit, measure the thickness of 4th gear.

**Standard:** 26.39 - 26.47 mm  
(1.039 - 1.042 in)  
**Service Limit:** 26.30 mm (1.035 in)



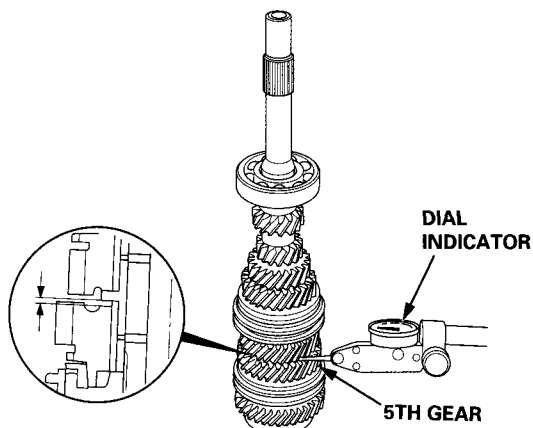
If the thickness of 4th gear is less than the service limit, replace 4th gear with a new one.  
If the thickness of 4th gear is within the service limit, replace the 3rd/4th synchro hub with a new one.



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

**Standard:** 0.06 – 0.24 mm  
(0.002 – 0.009 in)

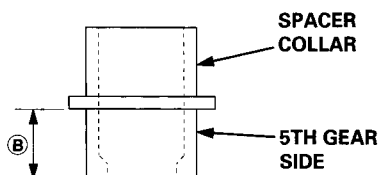
**Service Limit:** 0.3 mm (0.012 in)



7. If the clearance exceeds the service limit, measure distance ⑥ on the spacer collar.

**Standard:** 26.53 – 26.58 mm  
(1.044 – 1.046 in)

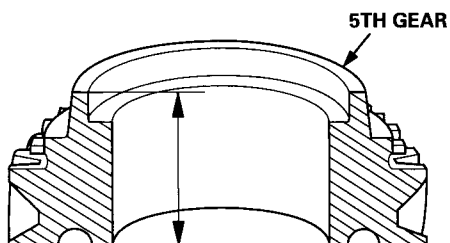
**Service Limit:** 26.51 mm (1.044 in)



8. If distance ⑥ is less than the service limit, replace the spacer collar with a new one.  
If distance ⑥ is within the service limit, measure thickness of 5th gear.

**Standard:** 32.89 – 32.97 mm  
(1.295 – 1.298 in)

**Service Limit:** 32.80 mm (1.291 in)

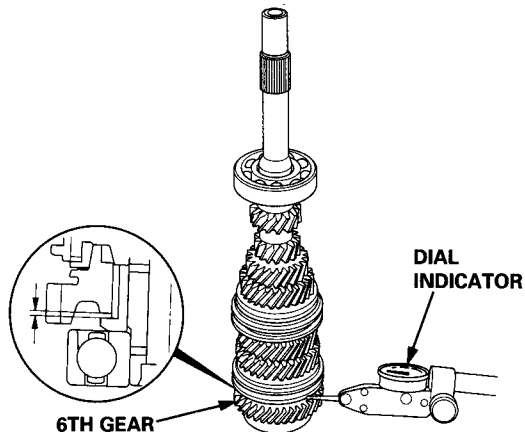


If the thickness of 5th gear is less than the service limit, replace 5th gear with a new one.  
If the thickness of 5th gear is within the service limit, replace the 5th/6th synchro hub with a new one.

9. Measure the clearance between the distance collar and 6th gear.

**Standard:** 0.06 – 0.24 mm  
(0.002 – 0.009 in)

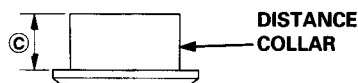
**Service Limit:** 0.3 mm (0.012 in)



10. If the clearance exceeds the service limit, measure distance ⑦ on the distance collar.

**Standard:** 22.03 – 22.08 mm  
(0.867 – 0.869 in)

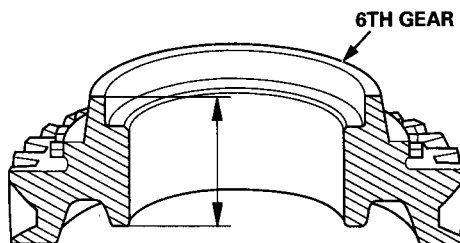
**Service Limit:** 22.01 mm (0.867 in)



11. If distance ⑦ is less than the service limit, replace the distance collar with a new one.  
If distance ⑦ is within the service limit, measure thickness of 6th gear.

**Standard:** 28.39 – 28.47 mm  
(1.118 – 1.121 in)

**Service Limit:** 28.30 mm (1.114 in)



If the thickness of 6th gear is less than the service limit, replace 6th gear with a new one.  
If the thickness of 6th gear is within the service limit, replace the 5th/6th synchro hub with a new one.