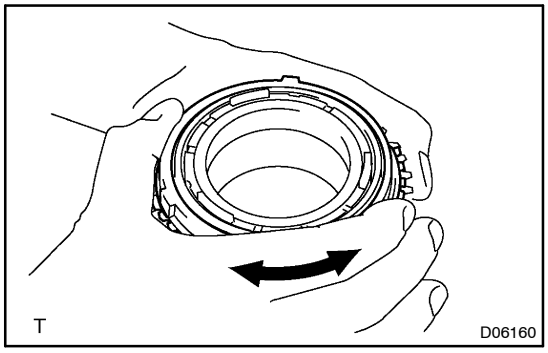
MT094–01

INSPECTION



1. INSPECT 1ST AND 2ND GEAR SYNCHRONIZER RING

(a) Check for wear or damage.

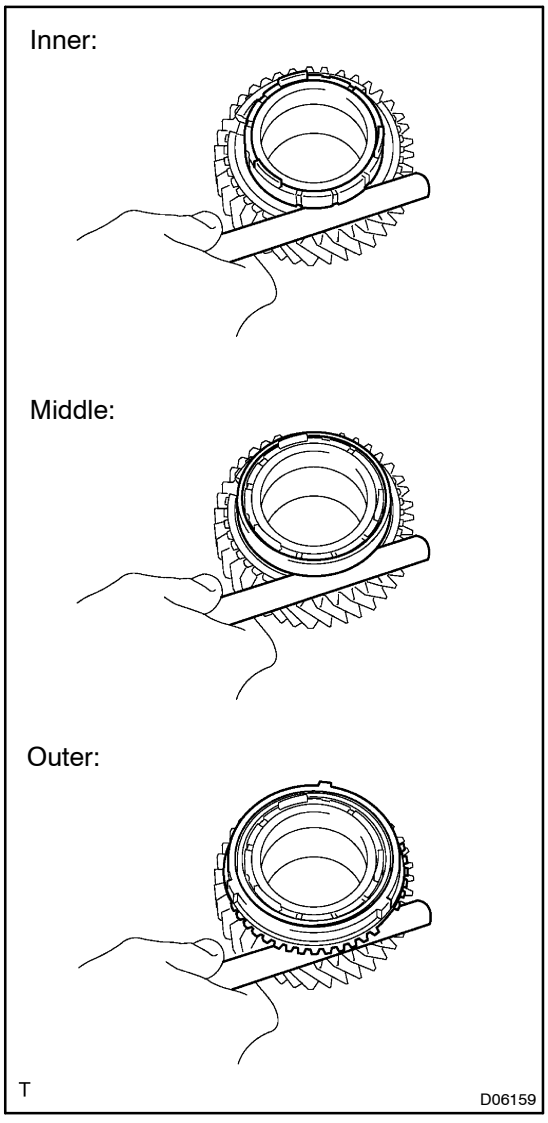
(b) Check for the braking effect of the synchronizer ring.
Turn the synchronizer ring in one direction while pushing it to the gear cone. Check that the ring locks.

If the braking effect is insufficient, apply a small amount of fine lapping compound between the synchronizer ring and gear cone. Lightly rub the synchronizer ring and gear cone together.

NOTICE:

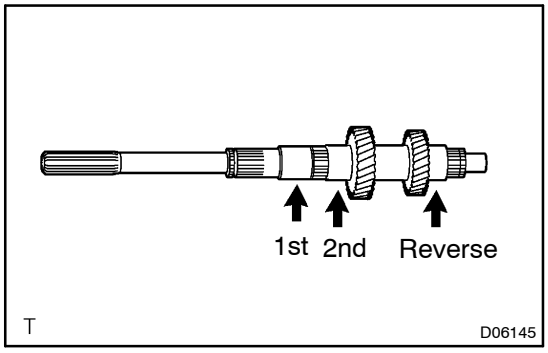
Ensure the fine lapping compound is completely washed off after rubbing.

(c) Check again the braking effect of the synchronizer ring.



(d) Using a feeler gauge, measure the clearance between the synchronizer ring back and gear spline end.
Standard clearance:
Inner: 0.98 – 1.62 mm (0.039 – 0.064 in.)
Middle: 0.68 – 1.92 mm (0.027 – 0.076 in.)
Outer: 0.88 – 1.72 mm (0.035 – 0.068 in.)

If the clearance is not as standard, replace the synchronizer ring.

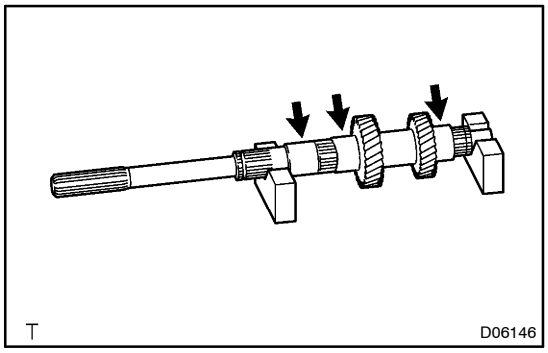


2. INSPECT OUTPUT SHAFT

(a) Using a micrometer, measure the outer diameter of the output shaft journal.

Minimum diameter:
1st gear: 31.984 – 32.000 mm (1.259 – 1.260 in.)
2nd gear: 42.984 – 43.000 mm (1.692 – 1.693 in.)
Reverse gear: 40.984 – 41.000mm (1.6135 – 1.6141 in.)

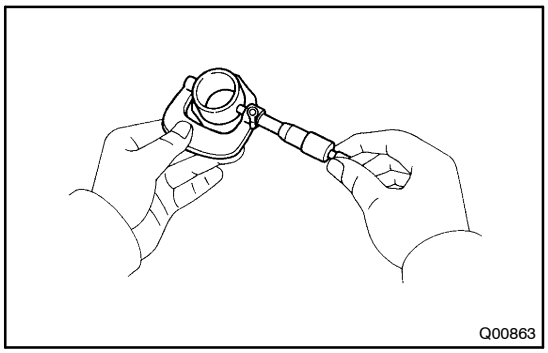
If the outer diameter is less than the minimum, replace the output shaft.



(b) Using a dial indicator, check for the shaft runout.

Maximum runout: 0.03 mm (0.0012 in.)

If the runout exceeds the maximum replace the output shaft.

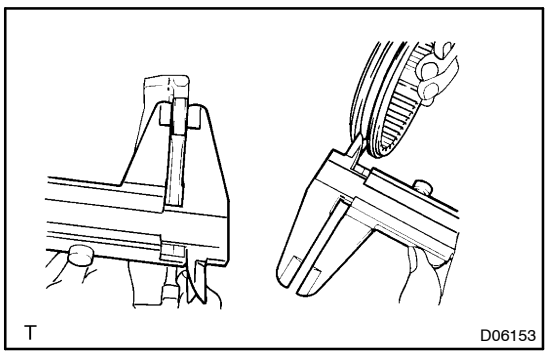


3. INSPECT 1ST GEAR BEARING INNER RACE

Using a micrometer, measure the outer diameter of the inner race.

Minimum diameter: 4.0284 – 40.300 (1.586 – 1.587 in.)

If the outer diameter is less than the minimum, replace the inner race.



4. INSPECT HUB SLEEVE NO. 1 AND NO. 3 CLEARANCE

(a) Using vernier calipers, measure thickness claw of shift fork.

Standard thickness: 7.9 – 8.0 mm (0.311 – 0.315 in.)

(b) Using vernier calipers, measure the groove of hub sleeve and subtract the shift fork claw thickness from hub sleeve groove.

Maximum clearance:
0.15 – 0.35 mm (0.0059 – 0.0138 in.)

If the clearance exceeds the maximum, replace the shift fork or hub sleeve.