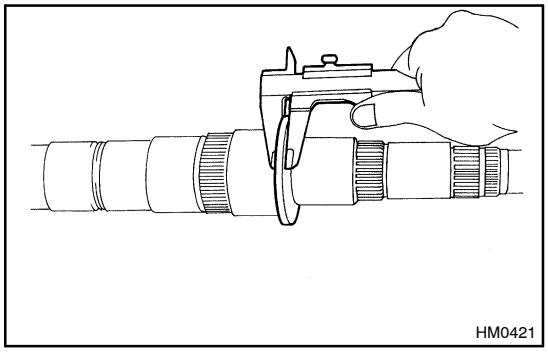
MT082–03

INSPECTION

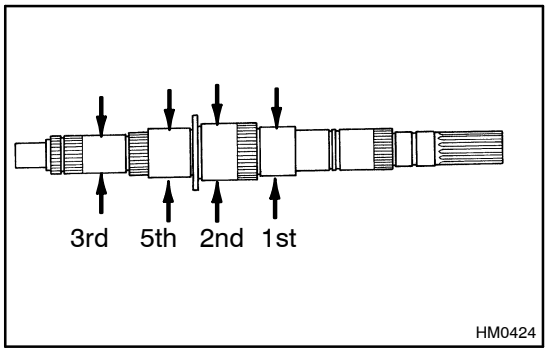

HM0421

1. INSPECT OUTPUT SHAFT

(a) Using calipers, measure the output shaft flange thickness.

Minimum thickness: 4.725 mm (0.1860 in.)

If the thickness is less than the minimum, replace the output shaft.

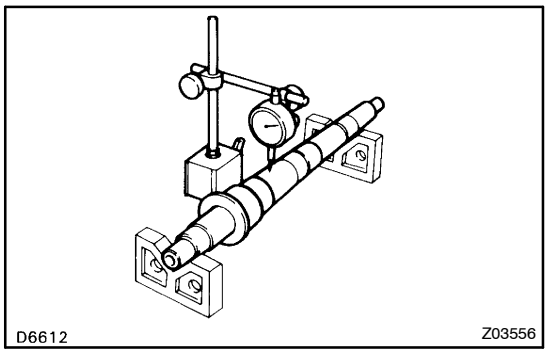


HM0424

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

Minimum diameter:
1st: 49.979 mm (1.9677 in.)
2nd: 57.984 mm (2.2828 in.)
3rd: 37.979 mm (1.4952 in.)
5th: 45.984 mm (1.8104 in.)

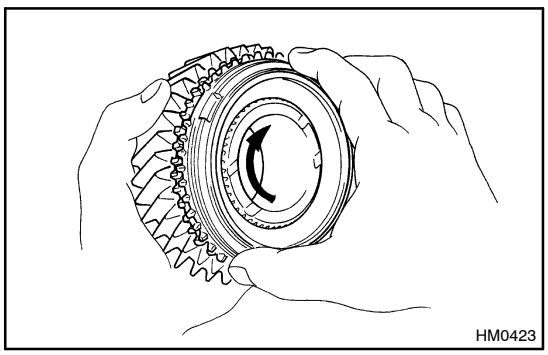
If the outer diameter is less than the minimum, replace the output shaft.


D6612 Z03556

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

Maximum runout: 0.05 mm (0.0020 in.)

If the runout exceeds the maximum, replace the output shaft.


HM0423

2. INSPECT SYNCHRONIZER RING

(a) Check for wear or damage.

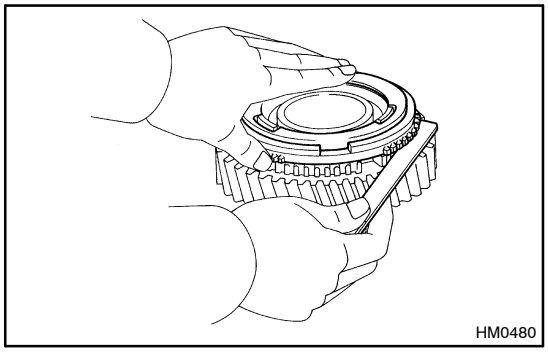
(b) Check the braking effect of the synchronizer ring. Turn the synchronizer ring in one direction while pushing it to the gear cone. Check that the ring locks.

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

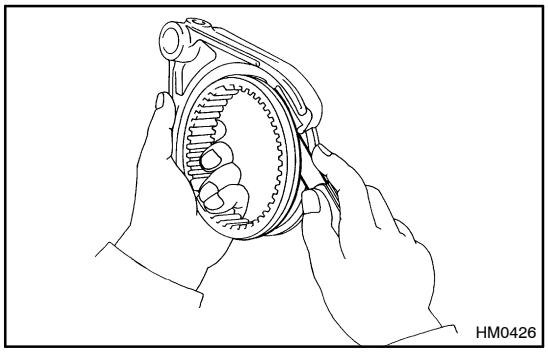
NOTICE:

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

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


HM0480

(d) Using a feeler gauge, measure the clearance between the synchronizer ring back and the gear spline end.
Minimum clearance:
1st gear: 1.25 mm (0.0492 in.)
2nd gear: 1.23 mm (0.0484 in.)
3rd gear: 1.15 mm (0.0453 in.)
5th gear: 0.8 mm (0.0315 in.)


HM0426

3. INSPECT SHIFT FORK AND HUB SLEEVE CLEARANCE

Using a feeler gauge, measure the clearance between the hub sleeve and shift fork.

Maximum clearance: 0.35 mm (0.0138 in.)

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