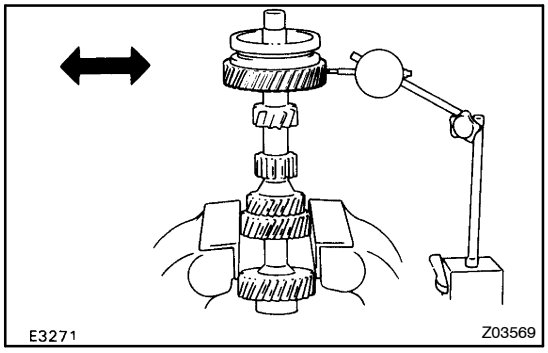
MT04F–02




# INSPECTION

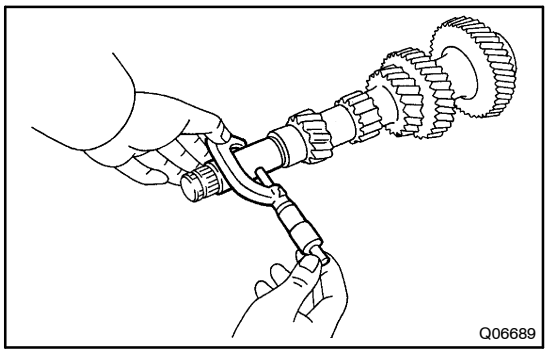
## 1. INSPECT 5TH GEAR RADIAL CLEARANCE

(a) Install the spacer, counter 5th gear and needle roller bearings.

(b) Using a dial indicator, measure the counter 5th gear radial clearance.

**Standard clearance:**
**0.015–0.068 mm (0.0006 –0.0027 in.)**
**Maximum clearance:**
**0.160 mm (0.0063 in.)**

If the clearance exceeds the maximum, replace the gear bearing or shaft.

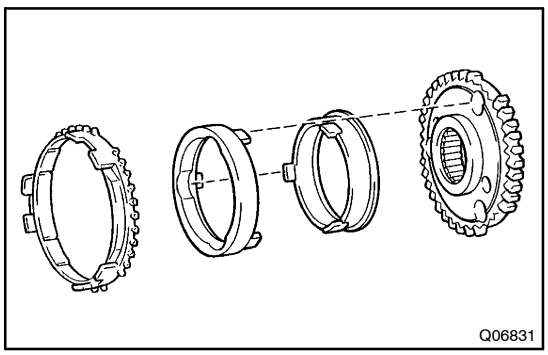



## 2. INSPECT COUNTER GEAR

Using a micrometer, measure the outer diameter of the counter gear journal.

**Minimum diameter: 27.860 mm (1.0968 in.)**

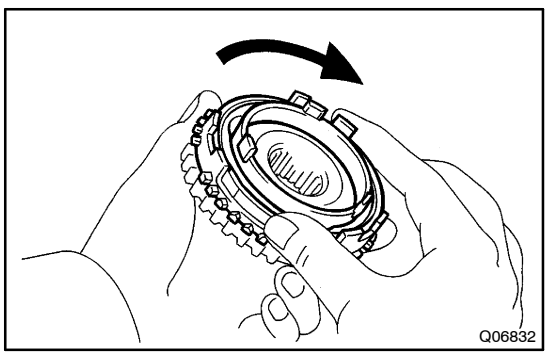
If the outer diameter is less than the minimum, replace the counter gear.




## 3. INSPECT 5TH SYNCHRONIZER RING

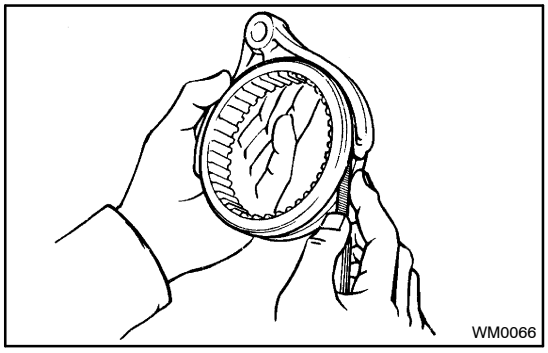
(a) Check for wear or damage.

(b) Install the synchronizer pull ring, cone ring and outer ring to the gear spline piece No.5.




(c) 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 it does not lock, replace the synchronizer ring.

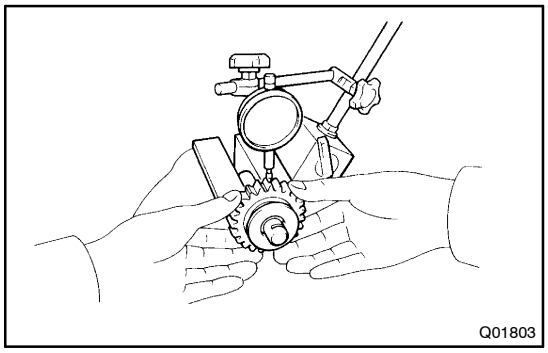

WM0066

**4. INSPECT SHIFT FORK AND HUB SLEEVE CLEARANCE**

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

**Maximum clearance: 1.0 mm (0.039 in.)**

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

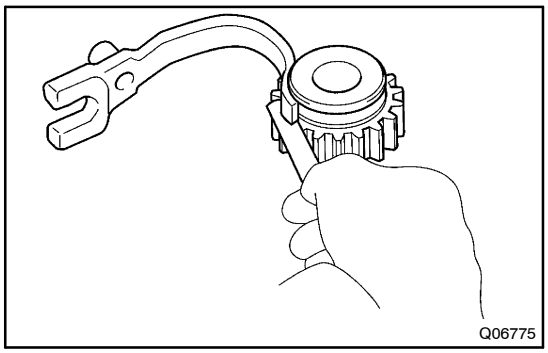

Q01803

**5. INSPECT REVERSE IDLER GEAR RADIAL CLEARANCE**

Using a dial indicator, measure the reverse idler gear radial clearance.

**Standard clearance:**
**0.040–0.082 mm (0.0016 –0.0032 in.)**
**Maximum clearance:**
**0.130 mm (0.0051 in.)**

If the clearance exceeds the maximum, replace the reverse idler gear or reverse idler gear shaft.


Q06775

**6. INSPECT REVERSE IDLER GEAR AND SHIFT ARM CLEARANCE**

Using a feeler gauge, measure the clearance between the reverse idler gear and shift arm.

**Standard clearance:**
**0.05–0.35 mm (0.0020 –0.0138 in.)**
**Maximum clearance:**
**0.50 mm (0.0197 in.)**

If the clearance exceeds the maximum, replace the shift arm or reverse idler gear.