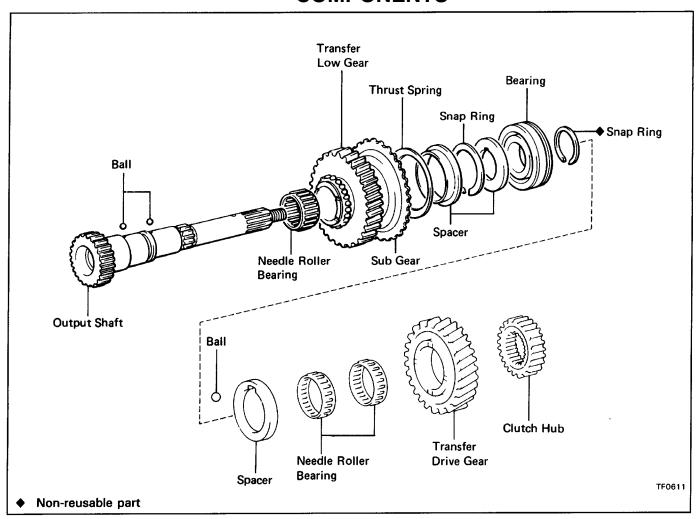
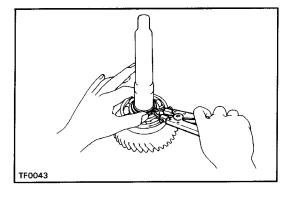
# Output Shaft COMPONENTS

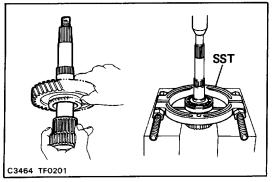




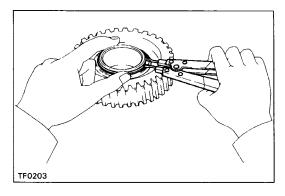
# DISASSEMBLY OF OUTPUT SHAFT ASSEMBLY

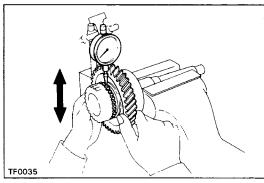
## REMOVE OUTPUT SHAFT FRONT BEARING, LOW GEAR AND SUB GEAR

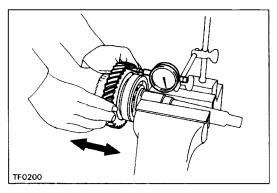
(a) Using snap ring pliers, remove the snap ring.

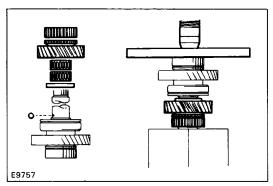


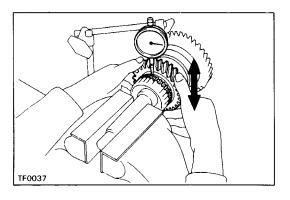
- (b) Using SST and a press, remove the bearing, No. 1 spacer and low gear. SST 09950–00020
- (c) Remove the steel ball and needle roller bearing.











- (d) Using snap ring pliers, remove the snap ring from the low gear.
- (e) Remove the spacer, thrust spring and sub gear.

#### INSPECTION OF OUTPUT SHAFT ASSEMBLY

### 1. CHECK OIL CLEARANCE AND THRUST CLEARANCE OF TRANSFER LOW GEAR

(a) Using a dial indicator, measure the oil clearance between the gear and shaft with the needle roller bearing installed.

Standard clearance: 0.010 - 0.055 mm

(0.0004 - 0.0022 in.)

Maximum clearance: 0.075 mm (0.0030 in.)

If the clearance exceeds the limit, replace the gear, needle roller bearing or shaft.

(b) Using a dial indicator, measure the thrust clearance with the spacer and bearing installed.

HINT: Do not touch the shaft end of the dial indicator to the sub gear.

Standard clearance: 0.10 - 0.25 mm

(0.0039 - 0.0098 in.)

Maximum clearance: 0.30 mm (0.0118 in.)

If the clearance exceeds the limit, replace the spacer.

### 2. CHECK OIL CLEARANCE AND THRUST CLEARANCE OF TRANSFER DRIVE GEAR

(a) Using a press, install the ball, spacer, two needle roller bearings and transfer drive gear.

HINT: Do not loosen the ball.

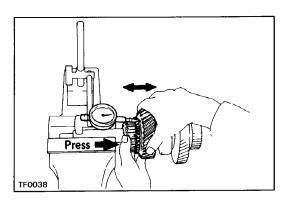
(b) Using a dial indicator, measure the oil clearance be tween the gear and shaft with the needle roller bear ing installed.

Standard clearance: 0.009 - 0.051 mm

(0.0004 - 0.0020 in.)

Maximum clearance: 0.71 mm (0.0028 in.)

If the clearance exceeds the limit, replace the gear, needle roller bearing or shaft.



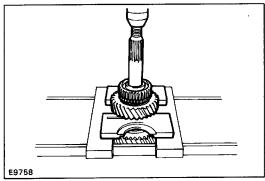
(c) Using a dial indicator, measure the thrust clearance with the clutch hub and spacer installed.

Standard clearance: 0.09 - 0.27 mm

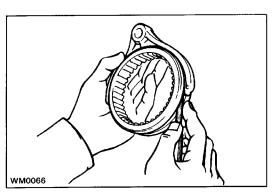
(0.0035 - 0.0106 in.)

Maximum clearance: 0.32 mm (0.0126 in.)

If the clearance exceeds the limit, replace the spacer.



(d) Using a press, remove the ball, spacer, two needle roller bearings and transfer drive gear.

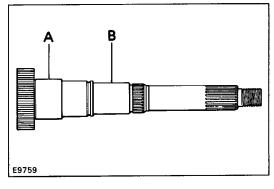


### 3. MEASURE CLEARANCE OF SHIFT FORKS AND HUB SLEEVES

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 limit, replace the shift fork or hub sleeve.

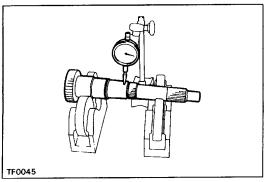


#### 4. INSPECT OUTPUT SHAFT

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

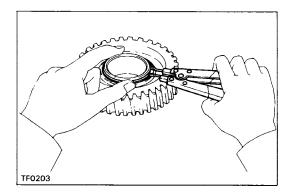
Maximum outer diameter:

Part A 44.984 mm (1.7710 in.) B 34.984 mm (1.3773 in.)



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

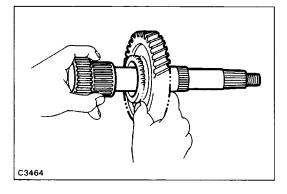
Maximum runout: 0.03 mm (0.0012 in.)



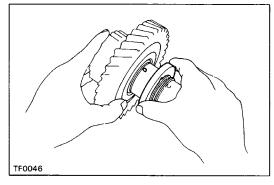
#### **ASSEMBLY OF OUTPUT SHAFT**

## INSTALL OUTPUT SHAFT FRONT BEARING LOW GEAR AND SUB GEAR

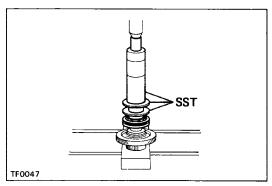
- (a) Install the sub gear, thrust spring and spacer.
- (b) Using snap ring pliers, install the snap ring.



- (c) Apply MP grease to the needle roller bearing.
- (d) Install the low gear with needle roller bearing to the output shaft.

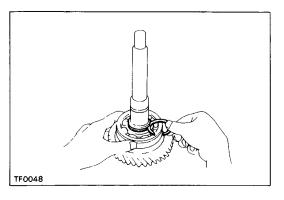


- (e) Install the steel ball on the output shaft.
- (f) Install the No. 1 spacer.



- (g) Using SST and a press, install a new bearing. SST 09316–60010 (09316–00010, 09316–00040, 09316–00050)
- (h) Select a snap ring that will allow minimum axial play and install it on the shaft.

Maximum play: 0.10 mm (0.0039 in.)



Mark	Thickness	mm (in.)
0	2.40 - 2.45 (0.	0945 - 0.0965)
1	2.45 - 2.50 (0.	0965 — 0.0984)
2	2.50 - 2.55 (0.	0984 — 0.1004)
3	2.55 — 2.60 (0.	1004 — 0.1024)
4	2.60 - 2.65 (0.	1024 - 0.1043)
5	2.65 - 2.70 (0.	1043 - 0.1063)