2nd Gear 1st Gear

DISASSEMBLY

1. INSPECT 1ST AND 2ND GEARS THRUST CLEAR-ANCE

MX09P-02

Using a feeler gauge, measure the thrust clearance.

Standard clearance:

1st gear: 0.10 – 0.40 mm (0.0039 – 0.0157 in.) 2nd gear: 0.10 – 0.55 mm (0.0039 – 0.0217 in.) Maximum clearance:

1st gear: 0.40 mm (0.0157 in.)

2nd gear: 0.55 mm (0.0217 in.)



2. INSPECT 1ST AND 2ND GEARS RADIAL CLEAR-ANCE

Using a dial indicator, measure the radial clearance between the gear and shaft.

Standard clearance: KOYO made: 0.015 - 0.058 mm (0.0006 - 0.0023 in.) NSK made: 0.015 - 0.056 mm (0.0006 - 0.0022 in.) Maximum clearance: KOYO made: 0.058 mm (0.0023 in.) NSK made: 0.056 mm (0.0022 in.)

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



- 3. REMOVE REAR RADIAL BALL BEARING, 4TH DRIV-EN GEAR AND OUTPUT GEAR SPACER FROM OUT-PUT SHAFT
- (a) Using SST and a press, press out the rear radial ball bearing and 4th driven gear.
 - SST 09950-00020

HINT:

Support the output shaft assembly by hand so that it will not be dropped off.

(b) Remove the output gear spacer.

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MANUAL TRANSAXLE - OUTPUT SHAFT



- 4. REMOVE 3RD DRIVEN GEAR, 2ND GEAR, NEEDLE ROLLER BEARING, SPACER AND NO. 2 SYNCHRO-NIZER RING
- (a) Shift the reverse gear into the 1st gear.



(b) Using SST and a press, press out the 3rd driven gear and 2nd gear.

SST 09950-00020

HINT:

Support the output shaft assembly by hand so that it will not be dropped off.

- (c) Remove the needle roller bearing, spacer and No. 2 synchronizer ring.
- 5. REMOVE SNAP RING

Using 2 screwdrivers and a hammer, tap out the snap ring. HINT:

Take care not to damage the journal surface of the output shaft.



- 6. REMOVE REVERSE GEAR, NO. 1 CLUTCH HUB AS-SEMBLY, NO. 1 SYNCHRONIZER RING, 1ST GEAR, NEEDLE ROLLER BEARING, 1ST GEAR THRUST WASHER AND BALL
- (a) Using a press, press out the reverse gear, No. 1 clutch hub assembly, No. 1 synchronizer ring and 1st gear.

HINT:

Support the output shaft assembly by hand so that it will not be dropped off.

- (b) Remove the needle roller bearing and 1st gear thrust washer.
- (c) Using a magnetic finger, remove the ball.

7. REMOVE SNAP RING

Using 2 screwdrivers and a hammer, tap out the snap ring. HINT:

Take care not to damage the journal surface of the output shaft.





Using SST and a press, press out the front bearing inner race. SST 09950–00020

NOTICE:

When replacing the front bearing inner race, replace the output shaft front bearing along with it.

HINT:

Support the output shaft by hand so that it will not be dropped off.

- 9. DISASSEMBLE REVERSE GEAR AND NO.1 CLUTCH HUB
- (a) Remove the reverse gear from the No. 1 clutch hub.
- (b) Remove the 3 No. 1 shifting keys and 3 No. 1 shifting key springs from the No. 1 clutch hub.

