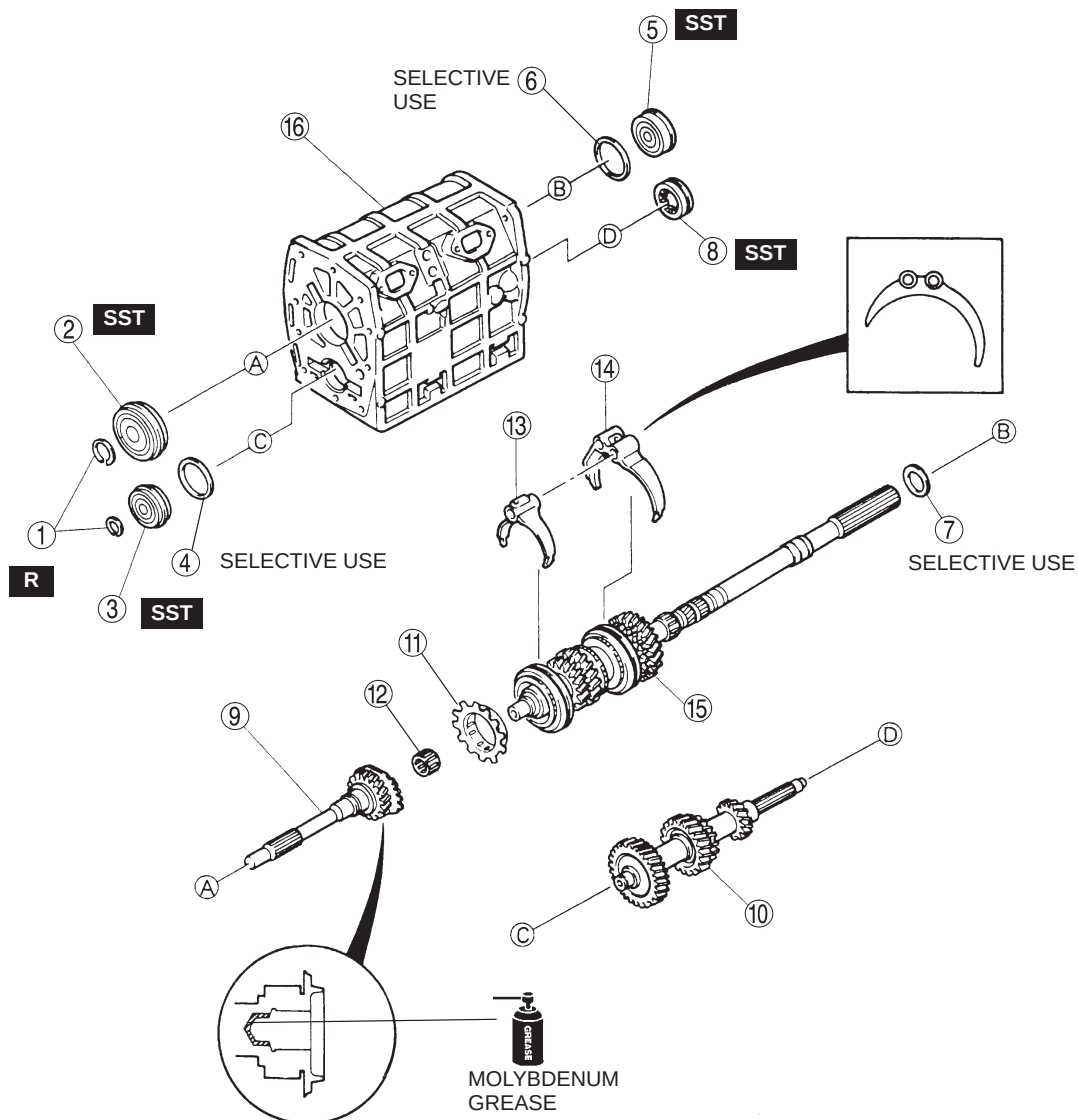


MANUAL TRANSMISSION

TRANSMISSION CASE COMPONENTS DISASSEMBLY/ASSEMBLY

1. Disassemble in the order indicated in the table.
2. Assemble in the reverse order of disassembly.

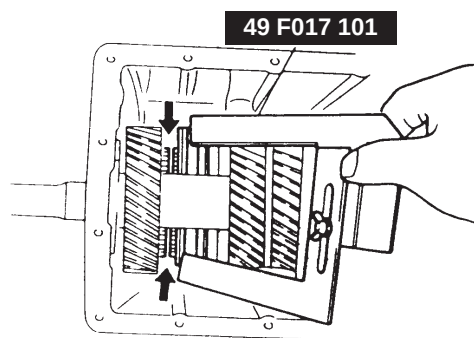


1	Snap ring
2	Main drive gear bearing + Disassembly Note + Assembly Note
3	Counter shaft front bearing + Disassembly Note + Assembly Note
4	Adjustment shim (counter shaft front bearing) + Assembly Note
5	Mainshaft center bearing + Disassembly Note + Assembly Note
6	Adjustment shim (mainshaft center bearing) + Assembly Note

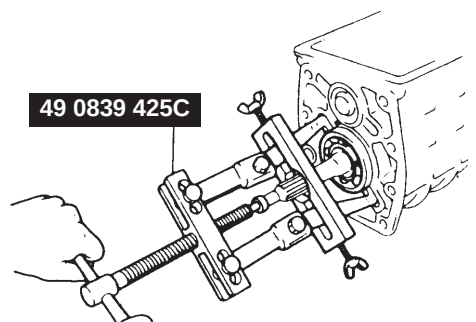
7	Thrust washer + 5TH/REVERSE GEAR AND HOUSING PARTS DISASSEMBLY/ASSEMBLY, Locknut (Main- shaft) Assembly Note
8	Counter shaft center bearing + Disassembly Note + Assembly Note
9	Main drive gear
10	Counter shaft component
11	4th synchronizer ring
12	Bearing
13	3rd/4th shift fork
14	1st/2nd shift fork
15	Mainshaft gear component
16	Transmission case

Main Drive Gear Bearing Disassembly Note

1. Install the **SST** between the 4th gear synchronizer ring and main drive synchromesh gear.

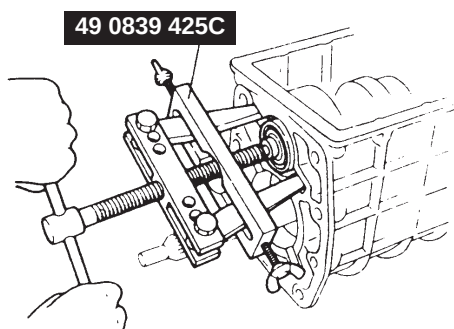


2. Turn the bearing snap rings so that the ends are 90° to the transmission case grooves.
3. Install the **SST** making sure to hand-tighten the side screws as tightly as possible, and remove the main drive gear bearing.



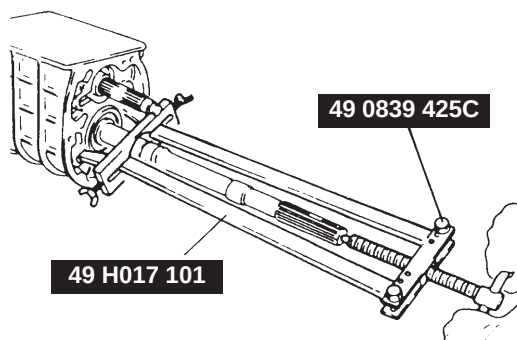
Counter Shaft Front Bearing Disassembly Note

1. Turn the bearing snap rings so that the ends are 90° to the transmission case grooves.
2. Remove the counter shaft front bearing by using the **SST**.



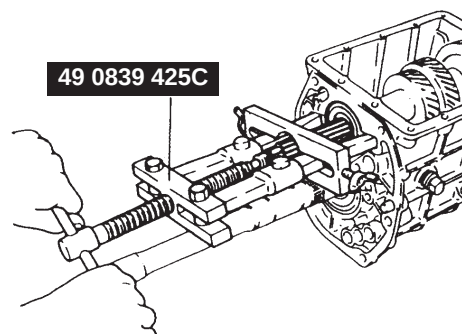
Mainshaft Center Bearing Disassembly Note

- Remove the mainshaft center bearing by using the **SST**.



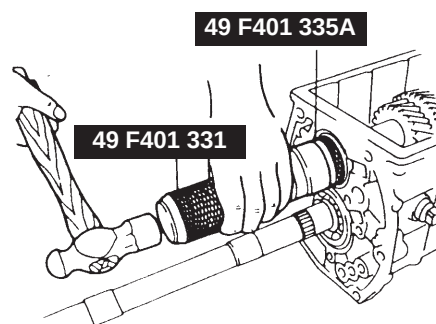
Counter Shaft Center Bearing Disassembly Note

- Remove the counter shaft center bearing by using the **SST**.



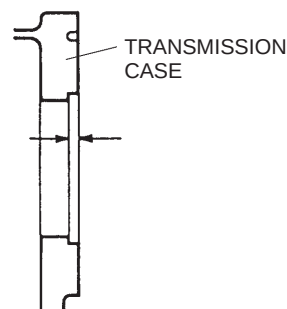
Counter Shaft Center Bearing Assembly Note

- Install the counter shaft center bearing onto the rear of the counter shaft by using the **SST**.



Adjustment Shim (Mainshaft Center Bearing) Assembly Note

- Measure the mainshaft center bearing thrust play as follows.
 - (1) Measure the depth of the mainshaft center bearing bore in the rear of the transmission case.



- (2) Measure the mainshaft center bearing height. The difference between the two measurements indicates the required thickness of the adjustment shim.

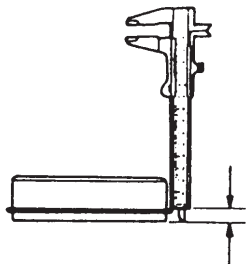
Standard thrust play

R15M-D: 0—0.1 mm {0—0.004 in}

R15MX-D: 0—0.05 mm {0—0.002 in}

Adjustment shim thickness

0.1 mm {0.004 in}, 0.3 mm {0.012 in}



- (2) Measure the counter shaft front bearing snap ring height A.
- (3) Choose an adjustment shim that will allow the difference between the two measurements to be equal to the standard bearing height.

A—B + Adjustment shim (s) =

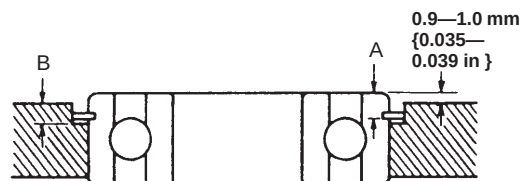
0.9—1.0 mm {0.036—0.039}

Standard bearing height on installing

0.9—1.0 mm {0.035—0.039}

Adjustment shim thickness

0.1 mm {0.004 in}, 0.3 mm {0.012 in}



Mainshaft Center Bearing Assembly Note

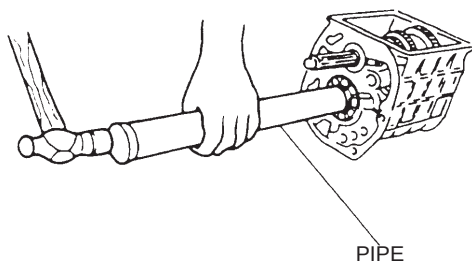
1. Install the correct shim onto the mainshaft center bearing. Refer to Adjustment Shim (Mainshaft Center Bearing) Assembly Note.
2. Install the mainshaft center bearing by using a suitable pipe.

Bearing inner diameter

35 mm {1.4 in}

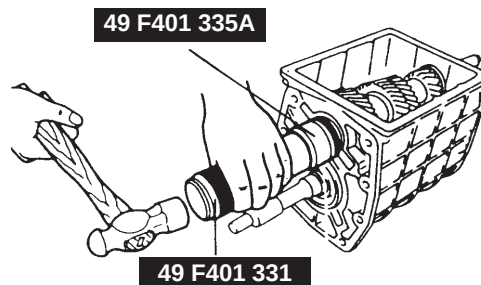
Bearing outer diameter

80 mm {3.1 in}



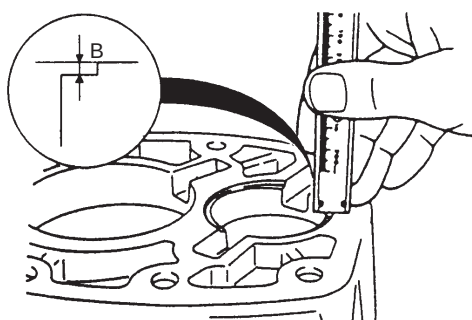
Counter Shaft Front Bearing Assembly Note

1. Install the correct shim onto the counter shaft front bearing. Refer to Adjustment Shim (Counter Shaft Front Bearing) Assembly Note.
2. Install the counter shaft front bearing by using the SST. If the counter shaft front bearing or counter shaft front bearing spacer is being replaced, replace them as a component.



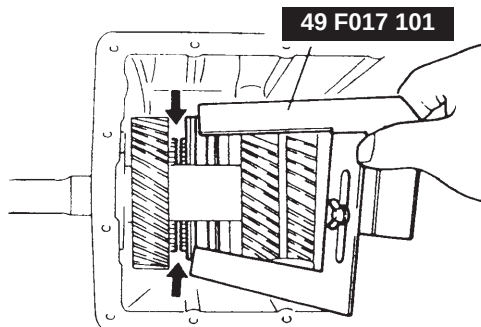
Adjustment Shim (Counter Shaft Front Bearing) Assembly Note

- Measure the counter shaft front bearing thrust play as follows.
- (1) Measure depth B of the counter shaft front bearing bore in the transmission case.



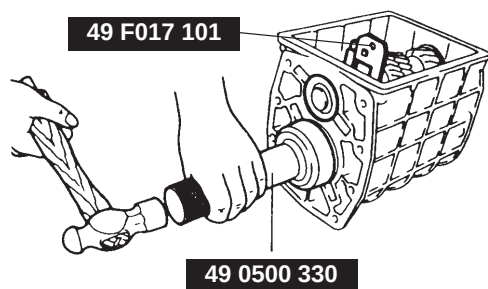
Main Drive Gear Bearing Assembly Note

1. Install the SST between the 4th synchronizer ring and the main drive synchromesh gear.



MANUAL TRANSMISSION

2. Install the main drive gear bearing by using the SSTs.

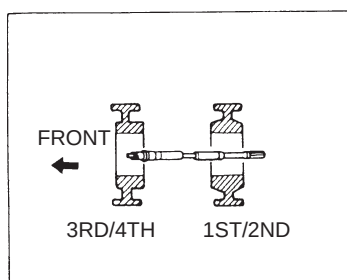


MAINSHAFT AND COUNTER SHAFT COMPONENTS DISASSEMBLY/ASSEMBLY

1. Disassemble in the order indicated in the table.
2. Assemble in the reverse order of disassembly.



APPLY SPECIFIED OIL TO INDIVIDUAL PARTS



1ST/2ND AND 3RD/4TH CLUTCH HUBS

