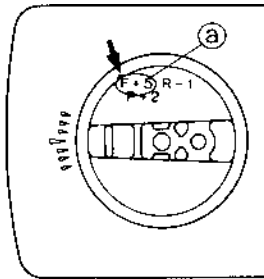


Shimming (counter rotation model)

Selecting the reverse gear shims

1. Calculate the specified value (M0) as shown in the examples below.



S69J6570

NOTE:

"F" is the deviation of the lower case dimension from standard. The "F" mark $\text{\textcircled{a}}$ is stamped on the trim tab mounting surface of the lower case in 0.01 mm units. If the "F" mark is unreadable, assume that "F" is zero and check the backlash when the unit is assembled.

Calculation formula:

$$\text{Specified value (M0)} = 30.60 + F/100 \text{ mm}$$

Example:

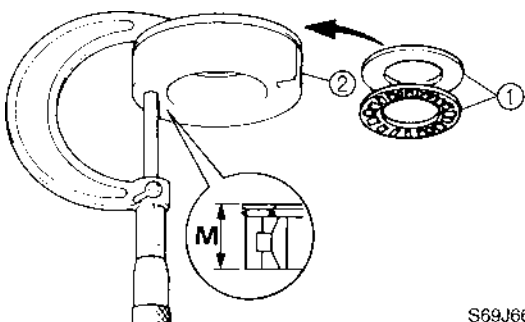
If "F" is (+5), then

$$M0 = 30.60 + (+5)/100 \text{ mm} = 30.60 + 0.05 \text{ mm} \\ = 30.65 \text{ mm}$$

If "F" is (-3), then

$$M0 = 30.60 + (-3)/100 \text{ mm} = 30.60 - 0.03 \text{ mm} \\ = 30.57 \text{ mm}$$

2. Set the thrust bearing $\text{\textcircled{1}}$ to the bearing retainer $\text{\textcircled{2}}$ as shown.
3. Turn the thrust bearing two or three times to seat the bearing retainer, and then measure the bearing height (M).

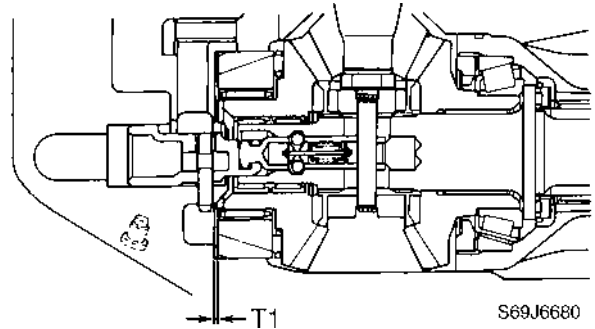


S69J6675

NOTE:

Measure the bearing retainer at three points to find the clearance average.

4. Select the reverse gear shim(s) (T1).



S69J6680

NOTE:

The sum of T1 and M should not be more than M0.

Calculation formula:

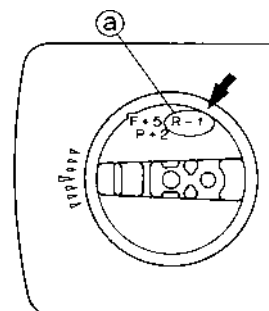
$$\text{Reverse gear shim thickness (T1)} = \\ M0 - M$$

Available shim thicknesses:

0.10, 0.12, 0.15, 0.18, 0.30, 0.40, and 0.50 mm

Selecting the forward gear shims

1. Calculate the specified value (M0) as shown in the examples below.



S69J6585