

OS Giken Close ratio Gear set INSTALLATION MANUAL for ALFA 105 Series

1. Transmission case modification

Close ratio gear kit may come in contact with the transmission case during installation.
Please shave off the part shown in the picture below (indicated by red arrow) until it is clear.



Caution: Over shaving the case may result in weakening the idler-shaft support.

2. Idler-gear stopper ring Installation:

Close ratio gear kit was designed to use the Alfa OEM idler gear.
Please insert the included idler-gear stopper ring like shown in the picture below to prevent the gear from engaging permanently.



Caution: End play is between 0.2mm to 0.3mm

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3. Shift Fork installation:

The shift-fork comes assembled, however, it needs to be disassembled for installation. Please install the shift-fork correctly like shown in the picture below.



Caution: Desirable bolt tightening torque is 2.0kg

4. Gear assembly installation:

The gear kit was designed to use Alfa OEM bearings for main-shaft end and counter-shaft end. Please re-sue the bearings accordingly for installation.



Caution: Once the installation is complete, please rotate the gear kit by hand to make sure it rotates smoothly without any interference.

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5. Included Parts:



Caution: There are 2 types of spacers included with the gear kit to accommodate 2 types of counter gear ends available for the Alfa 105 series transmission. One uses a bolt to lock, and another requires bending a washer to wrap the spacer. Please use a correct spacer, and do not use the both spacers at the same time.

- ※ Alfa 1750cc type Close Ratio Gear Kit was desinged based on an OEM transmission. Additional modifications not included in this installation manual may needed in some cases due to minor differences in each transmission case and bolts used.
- ※ Included parts may change without notice due to design changes / revisions.

- ※ Please prepare necessary genuine parts for installation.
- ※ Please be aware of potential risks and hazards when installing our products. We do not take any responsibility for any loss and/or injury occurred when our products are modified, re-used and/or ill-fitted.
- ※ Specification may be changed without notice.