



SPECIFICATIONS

| ITEM | | STANDARD mm (in) | SERVICE LIMIT mm (in) |
|---------------------------------------|----------|-----------------------------------|-----------------------|
| Shift fork I.D. | | 12.000 – 12.021 (0.4724 – 0.4733) | 12.050 (0.4744) |
| Shift fork end thickness | | 5.430 – 5.500 (0.2138 – 0.2165) | 5.30 (0.2087) |
| Shift fork shaft O.D. | | 11.960 – 11.984 (0.4709 – 0.4718) | 11.95 (0.4705) |
| Gearshift drum O.D. | At 12 mm | 11.955 – 11.980 (0.4707 – 0.4717) | 11.93 (0.4697) |
| Gear I.D. | M 4 gear | 25.020 – 25.041 (0.9850 – 0.9859) | 25.07 (0.9870) |
| | M 5 gear | 28.020 – 28.041 (1.1031 – 1.1040) | 28.07 (1.1051) |
| | C 1 gear | 20.020 – 20.041 (0.7882 – 0.7890) | 20.07 (0.7902) |
| | C 2 gear | 25.020 – 25.041 (0.9850 – 0.9859) | 25.07 (0.9870) |
| | C 3 gear | 25.020 – 25.041 (0.9850 – 0.9859) | 25.07 (0.9870) |
| Main shaft O.D. | At 24 mm | 23.987 – 24.000 (0.9837 – 0.9449) | 23.96 (0.9443) |
| | At 25 mm | 24.959 – 24.980 (0.9826 – 0.9835) | 24.93 (0.9815) |
| Counter shaft O.D. | At 20 mm | 19.979 – 20.000 (0.7866 – 0.7874) | 19.95 (0.7854) |
| | At 25 mm | 24.959 – 24.980 (0.9826 – 0.9835) | 24.93 (0.9815) |
| | At 25 mm | 24.979 – 25.000 (0.9834 – 0.9843) | 24.95 (0.9823) |
| Connecting rod big end side clearance | | 0.200 – 0.600 (0.0079 – 0.0236) | 0.70 (0.028) |
| Connecting rod big end radial play | | 0.008 – 0.020 (0.0003 – 0.0008) | 0.03 (0.001) |
| Crankshaft runout at journals | | _____ | 0.10 (0.004) |

TROUBLESHOOTING

Engine noise

1. Main journal bearing worn
2. Crankpin bearing worn
3. Transmission bearing worn

Jumps out of gear

1. Gear dogs worn
2. Shift forks bent
3. Shift shaft bent
4. Shift drum stopper damaged

Hard shifting

1. Incorrect clutch adjustment
2. Shift forks bent
3. Shift shaft bent
4. Shift spindle pawl bent or damaged
5. Shift drum cam slot damaged