

Meade LX200GPS 8" DEC Axis component description.

This description relates to the two drawings dec-lhs.pdf & dec-rhs.pdf.

Notes

Whilst this information is specific to a single LX200GPS SMT 8" manufactured by Meade in September 2005, it is believed that the information will apply to other vintages and sizes.

Annotation

Common to both drawings.

1. OTA (Optical Tube Assembly)
2. OTA saddle & stub axle
3. Fork Arm & OTA pre load and centring shim (approx. 1.0mm)
4. Inner support bearing (6005zz, 25mm ID 47mm OD)
5. Fork Arm cast aluminium.
6. Inner support bearing (6005zz, 25mm ID 47mm OD)
7. Bearing pair, pre load shims (approx. 2.0mm. thickness is set to zero end float + 0.001" of pre load per bearing)

Specific to LHS.

8. Magnetometer mounting bracket
9. Retaining & Thrust Nut
10. Fixed DEC Disk
11. DEC Disk retaining Knob

Specific to RHS

8. Inner Clutch Plate
9. Output Gear (pseudo worm wheel)
10. Outer Clutch Plate
11. Clutch Thrust Spacer
12. Adjustable DEC Disk
13. Clutch Engagement Knob

Non Standard & additional components

6. This bearing is not fitted as standard in the LHS fork arm.
7. These Shims are not fitted as standard to either side.
9. This Nut (LHS only) has been shortened on the inner face to give correct locking on the cone of the stub axle (2). It requires shortening by the thickness of the Magnetometer mount. (between 1.4mm & 1.6mm) The nut is also cross drilled with a 5mm diameter to allow for a wrench bar to aid tightening.

Differences in common components

2. Whilst the OTA saddle is the same casting for both sides, there are the following differences. The RHS has DEC limit stops in the casting that are removed on the LHS. The LHS stub axle has two flats machined into the "locking cone" to accommodate the Magnetometer mounting bracket.

Upgraded Components.

4. & 6. The bearings were replaced with matched pairs of close tolerance bearings.