



TI-GLIDE CASSETTE FREE HUB

(Double Circlip Rotor Model)

This standard of 'Free Hub' can be identified by a small machined 'V' groove on the O/D of the rotor splines 10mm from the end.

Overhaul Procedure

1. Bearing Change - Rotor Body Strip

Remove rotor body and pawls as described previously in Maintenance Instructions. Place rotor body on a flat firm surface pawl carrier end up. Using an aluminium drift, tap out outer bearing working all round the bearing keeping it square so as not to jam it in the rotor (see fig 1). When the bearing is flush with the end of the rotor, place rotor on a washer or ring with a 30mm dia. hole in it so that the bearing will drop clear. Use long nose circlip pliers to remove the two circlips, then drive out the second bearing using a 15 dia. drift. Take care not to jam it on the first bearing's location. Discard both bearings due to possible damage to the race ways. Thoroughly clean rotor body prior to fitting new bearings.

Assembly: Use special tool HTT168 or HTT169 to press or drive in the bearings. It is essential to drive in on the outer raceway, driving on the inner raceway only, will damage tracks. After fitting inner bearing (item 13) replace both circlips and then the outer bearing (item 16).

2. Bearing Change (Hub)

Strip: Remove rotor body as described previously in Maintenance Instructions. Sit drive side spoke flange on tool HTT167 or a pair of parallels. See Fig.2. Using a soft hammer (nylon or hide) tap end of spindle and remove. One or both bearings will be left in situ in the hub. Using an aluminium drift tap out using the same procedure as used on the rotor body.

Examine spindle for straightness and damage, thoroughly clean both spindle and hub.

Assembly Procedure: Slide bearing (item 7) onto spindle (item 6). Locate in tool HTT212 and drive or press spindle end to fully locate bearing. See fig 3.

Sit drive side spoked flange on tool HTT167 and fit new bearing to non-drive side using tool HTT169, See Fig 4.

Turn wheel over, sit non-drive on tool HTT169. Using tool HTT212 drive in spindle and bearing sub-assy into hub. See Fig 5.

Ensure spindle rotates smoothly with no sign of roughness or judder.

Finally assemble rotor to hub as described in maintenance instructions.

HOPE TECHNOLOGY

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