

# **HOPE**

**TECHNOLOGY**

## **TI-GLIDE CASSETTE FREE HUB** (Single Circlip Rotor Model) 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. Use a small screw-driver to push spacer (item 15) to one side. Using an aluminium drift, tap inside of bearing (item 16) 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 hole in it and drive out the bearing. Remove spacer (item 15). This gives access to the circlip (item 14). Remove using long nose circlip pliers. Inner bearing (item 13) can then be removed using a 15 dia. drift. Make sure it doesn't jam on the second bearing 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 the tracks. After fitting inner bearing (item 13) replace circlip (item 14) spacer (item 15) then outer bearing (item 16).

### **2. Bearing Change (Hub)**

Strip: Remove rotor body as described previously in Maintenance Instructions. Sit non-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 the spindle with non-drive bearing attached. Turn hub or wheel over, sit on drive side spoke flange, use soft drift and tap out drive side bearing. Inspect lip seal (item 9) for damage, prise out with screw-driver if replacement is required.

Assembly Procedure: Sit hub on non-drive side flange. Press or drive in bearing (item 7). Use tool no. HTT169. Carefully fit new seal (item 9). Use a bush which covers the full diameter of the seal to press it home. Slide spindle long end through hub and bearing (item 7). Sit hub assembly drive side down on tool HTT168 (See fig 3). Press or drive in bearing (item 3) using tool HTT169. Assemble rotor body to hub as described in Maintenance Instructions.

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Overhaul Procedure

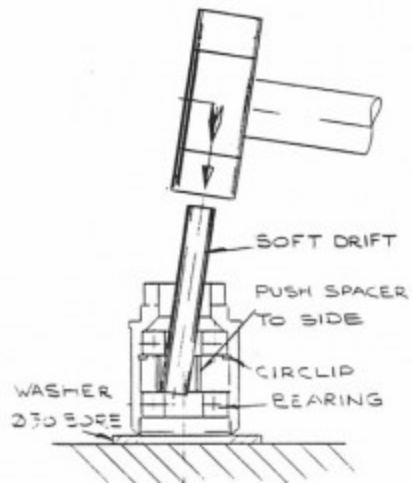


FIG 1

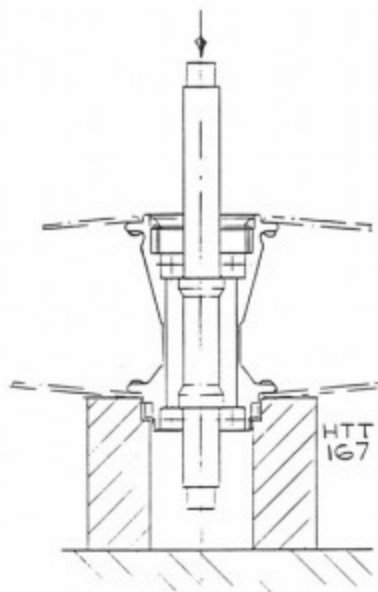


FIG 2

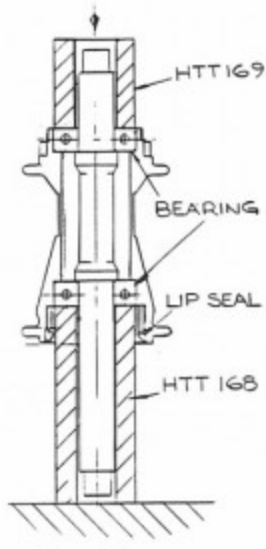


FIG 3

## PARTS LIST

## Item Description

1. 'O' Ring
2. Spacer (19mm for 135 axle)  
" (14mm for 130 axle)
3. Bearing 6001 2RS
4. Hub Body
5. Ratchet Ring
6. Spindle
7. Bearing 6001 2RS
8. Spacer (16mm long)
9. Seal-lip
10. Pawls (3 off)
11. Spring (3 off)
12. Rotor Body
13. Bearing 6001 2RS
14. Circlip
15. Spacer (14mm long)
16. Bearing 6001 2RS
17. Spacer (7 speed conversion)
18. Spacer (11mm long)
19. M4 Grub Screw

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