HOPE TECHNOLOGY

'FATSO' FRONT HUB

Bearing Change

One side of the hub has a 6mm diameter thread in the stub axle. Screw in a short setscrew or capscrew about 10mm deep. Turn the hub or wheel over and sit on the spoke flange using tool HTT167. See Fig 1. If tool is not available use a pair of parallels or a similar support bush.

Insert a piece of 5mm diameter steel rod approximately 120mm long through the stub axle until it rests on the end of the capscrew. It is important that the capscrew is screwed in only 10-12mm so that there is a threaded portion of hole available to locate the end of the rod. This prevents peening over the capscrew nose when driving out the spindle. Tap out the spindle as shown in Fig. 1.

Sometimes the stub axle will come out with bearing and spindle attached, or sometimes just the stub axle, or stub axle plus bearing.

Turn the hub or wheel over. If the spindle is still in position, insert 10mm diameter aluminium drift through spindle onto stub axle and drive out. See Fig 2. One or both bearings plus the spindle may be left in position.

Push spindle to one side and tap side of bearing using aluminium drift working round the bearing until removed. See Fig 3.

Removal of Spindle and Bearing from Stub Axle

For this operation a special split bush HTT178 is required plus a bench vice.

Locate the spindle and bearing in split bush HTT178. See Fig. 4. Position in vice and tighten lightly. Do not over tighten as this will distort both spindle and bearing. Note position of lip on bush which wraps around bearing. Use aluminium drift to drive out stub axle.

This split bush can also be used to remove the bearing from the stub axle position, the split bush in the vice so as to clamp over the bearing and drive out the stub. See Fig. 5.

Assembly Procedure

Support hub housing (item 1) on HTT179. Press in bearing using tool HTT179. Turn hub/wheel over, insert spindle to rest on bottom bearing then press in top bearing using a second HTT179. The spindle bore must then be set in line with the bearing bores and the stub axles pressed in position.

NOTE: Radial building of HOPE hubs is not recommended.