

# Replacement of Clutch Throwout Bearing

Types 220 and 220a

## Special Tools:

Dismounting arbor for clutch throwout bearing and puller for inner race of clutch throwout bearing

136 589 25 33

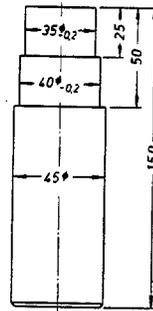
If in a damaged bearing the inner race cannot be separated from the throwout collar, pull the race by means of tool 136 589 25 33 or grind it open.

## Procedure:

1. To exchange the clutch throwout bearing proceed as follows. In Type 220 take out snap ring on front cover of transmission case and slip off throwout collar with spring and spring retainer.

In Type 220a first press the two spring clamps with the hook out of the throwout fork, turn them to the side and pull out of throwout collar. Now the throwout collar can be removed (see also Operation No. G 3, cf. 1).

2. For pulling the bearing off the throwout collar place collar on a suitable arbor (see Sketch in Fig. Ku 8/2). By pushing the arbor forcefully on a firm support the bearing can be separated from the throwout collar (Fig. Ku 8/2). Arbor 136 589 25 33 can also be used for removing the throwout bearing.



Dia. 35-0.2 mm  
(1.38-0.008")  
Dia. 40-0.2 mm  
(1.57-0.008")  
Dia. 45 mm (1.77")  
25 mm (1")  
50 mm (2")  
150 mm (5.9")



Fig. Ku 8/2

3. Proceed with care when pressing on the new bearing. If possible, undercool the throwout collar. The overlap of the ball bearing on the throwout collar is 0.007-0.018 mm (0.00027-0.00071").

**Note: The throwout bearing of Type 220a requires no maintenance; it must by no means be washed out.**