

Removal and Installation of Flywheel

(Clutch removed)

Types 170 V, Va, S, D and Da

Assy.-No.

M 13

Special Tools:

Puller for ball bearing in crankshaft (flywheel side) Wst 1817 (19)
 Socket wrench SW 17 Wst 1897 (22)

Procedure:

Note: This work applies to a car with dismantled transmission or on dismantled engine.

1. If checking ball bearing in crankshaft reveals that it is to be replaced then remove cover of ball bearing and then ball bearing by means of tool Wst 1817.
2. Remove flywheel of crankshaft after loosening of locking plates and screws.
3. Mounting of flywheel shall be done in reverse order. Position of UDC marking on flywheel is on top, whereby stroke 1 and 4 are also on UDC. The auxiliary DC on flywheel, marked by a ball, is turned by 180° and points vertically to bottom (Fig. M 13/3). With newer models of flywheels (See Fig. Ku 3/01), auxiliary DC is marked by a dash while UDC marking is located on bevelled surface.

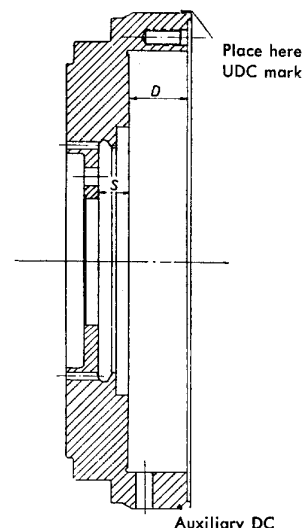


Fig. M 13/3

4. Flywheel flange and flywheel are to be marked before dismantling, so that flywheel will be mounted in the same position (with balanced crankshaft).

Grinding of Clutch Surface of Flywheel

(Flywheel dismantled)

Types 170 V, Va, S, D and Da

Assy.-No.

M 14

Procedure:

This work is always necessary when clutch surface of flywheel shows grooves or roughened spots. Clutch surface will be surface ground or turned on a suitable machine.

The taken-off material depth, being 0.25 up to 0.5 mm (0.0098–0.0197"), must be reground to the same extent on the fitting surface of clutch in order to regain distance D according to Table 12. Regrinding of clutch surface can be done as long as distance S between clutch surface and

flange surface is not lower than 14 mm (0.55118 ins.). Touching between clutch carrier plate and dowel bolts resp. nuts must be eliminated. As occasion demands, formerly used dowel bolts, part No. 159 032 0174 (24 mm length = 0.94488 ins.) with nuts M 10 D 429–6 (7 mm height = 0.27559 ins.) are to be replaced by new dowel bolts, part No. 136 032 0074 (23 mm length = 0.90551 ins.) and nuts, Part No. 136 990 0451 (6 mm height = 0.2362").