

Removal and Installation of Flywheel

Types 220 and 220a

Special Tools:

Puller for cover plate and ball bearing in crankshaft
136 589 07 33

Procedure:

Note: This operation may be carried out on the removed engine or in the car with transmission and clutch removed.

1. Loosen lock plates and screws, and remove flywheel from crankshaft.

Note: Today the flywheel is secured to the crankshaft by means of expansion screws without lock plates.

2. Check grooved collar bearing in crankshaft and replace, if necessary. To do this, remove protective cover for ball bearing together with grooved collar bearing with puller 136 589 07 33 (see Fig. M 3/38).

3. When installing the flywheel of Type 220a, tighten the expansion screws to 5 mkg (36 ft.lb.). In the case of Type 220 the screws are tightened as usual and then secured.

Note: If a new flywheel is to be installed, rebalance it prior to installation (see Operation No. M 16a).

In Type 220 the OT (TDC) mark is located at the **upper right** of the flywheel, indicating that the pistons of 1st and 6th cylinder are at TDC (Fig. M 13/3).

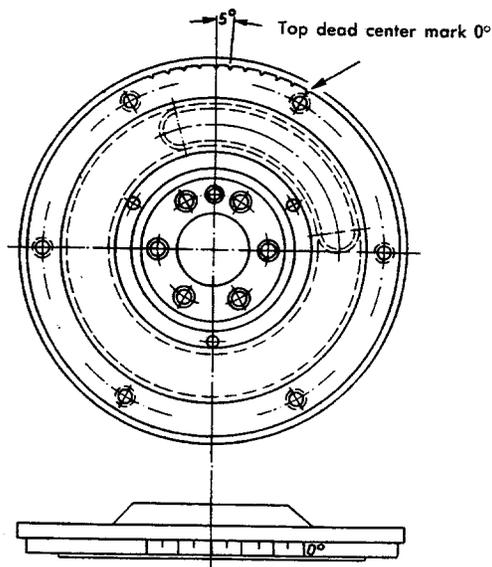


Fig. M 13/3

In Type 220a the TDC mark is at the **bottom** of the flywheel (Fig. M 13/3a). Another TDC mark, which is intended for assembly, is located at the top of the flywheel.

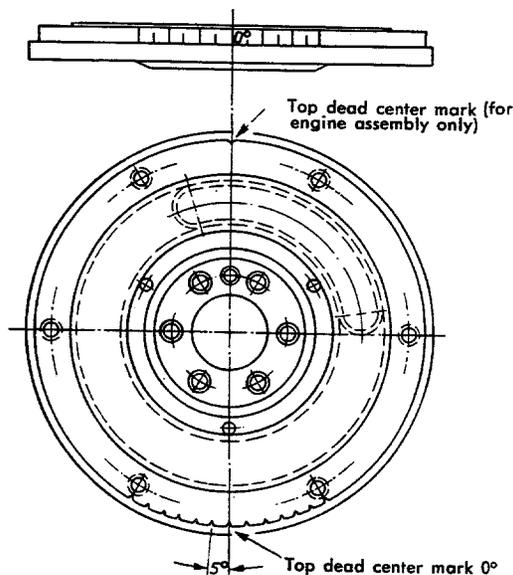


Fig. M 13/3a

The marks are spaced $5^\circ = 11.4 \text{ mm (0.45")}$ apart, 1° corresponding to 2.3 mm (0.09") .