

Checking and Adjustment of Fan Belt Tension

Job No.

50-5

I. Models 180 a, 180 b, 190 D, 190 Db, 190 SL, 220 a, 219, 220 S, and 220 SE

The checking and adjustment procedures are the same as on Model 190.

II. Models 180, 180 D, and 180 Db (Fan Belt for Water Pump and Generator)

Checking:

1. The fan belt has the specified tension if moderate thumb pressure applied at the center point between the water pump and the generator pulleys depresses the belt from its straight position a distance of 6–10 mm.

Note: When checking the fan belt tension the condition of the pulleys should also be examined.

Badly worn pulleys should be replaced since otherwise the fan belt rests on the base of the pulley and cannot transmit power.

Adjustment:

2. In order to adjust or re-tension the fan belt slightly slacken the fixing screws (4) and (7) on the generator bracket under the generator, the clamping screw (2) and the hexagon nut (3) (Fig. 50–5/1).
3. Now move the generator until a correct belt tension has been achieved.
4. Tighten the fixing screws (4) and (7), the hexagon screw (2) and the hexagon nut (3) (Fig. 50–5/1).

Note: If the fan belt has to be replaced, unscrew the nut of the hexagon screw (1)

and remove the screw. Slacken the fixing screws (4) and (7), the clamping screw (2) and the hexagon nut (3) (see Fig. 50–5/1), so that the generator can be moved toward the engine far enough for the belt to be easily removed and put on.

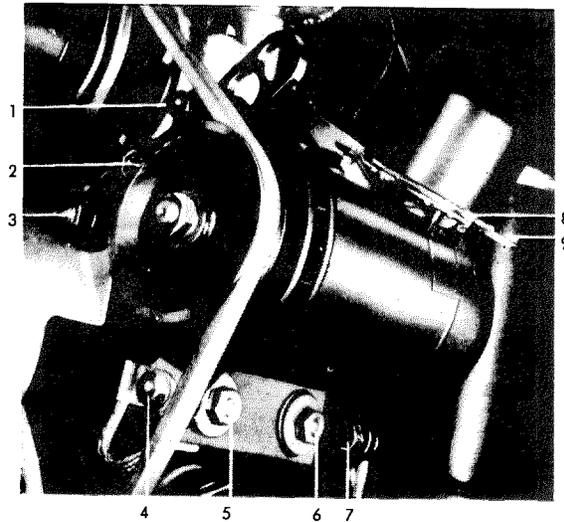


Fig 50–5/1

- | | |
|-------------------------------------|---------------------|
| 1 Hexagon screw | 5 Hexagon nut |
| 2 Hexagon screw
(clamping screw) | 6 Hexagon nut |
| 3 Hexagon nut | 7 Rear fixing screw |
| 4 Front fixing screw | 8 Terminal 61 |
| | 9 Terminal 51 |

The fan belt must not be forced off or on with the aid of a screw driver as this may cause damage to the pulley and the belt.

III. Models 180, 180 D, and 180 Db (Fan Belt)

Checking:

(see Section II, Para 1).

Adjustment:

1. Unscrew the two hexagon screws attaching the fan mounting (3) to the support (2).
2. Loosen the lock nut of the adjusting screw (1) and turn the screw in and out until the correct belt tension is obtained.

Note: The fan belt should not be given excessive tension since this would put a strain on the annular grooved bearing in the pulley and may produce whining noises of the fan.

3. Tighten the fixing screws and the lock nut of the adjusting screw.

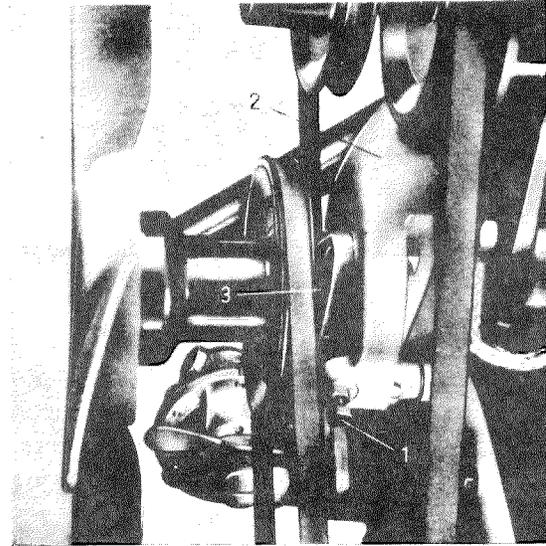


Fig. 50-5/2

- 1 Adjusting screw
- 2 Support
- 3 Fan mounting