

To remove the pivot pin for the guide sprocket screw an M 8 screw into the threaded bore. If two spacer rings (4) are fitted, make sure when pulling the pivot pin out **that the spacer rings do not fall into the crankcase.**

Note: The spacer rings (4) are installed as standard parts only in the engines of Type 127.982 (Model 220 SEb) and Type 127.983 (Model 220 SE Convertible and Coupé with 120 HP).

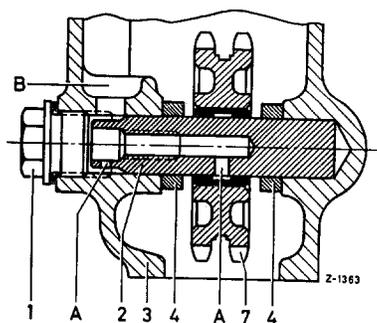


Fig. 05-5/10

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|-----------------|---|
| 1 Screw plug | 7 Guide sprocket |
| 2 Pivot pin | A Bores for lubrication of guide sprocket |
| 3 Cylinder head | B Oil case with oil bore |
| 4 Spacer ring | |

The following table contains the measurements

necessary for checking the pivot pin and the bore in the guide sprocket.

Guide Sprocket

Model 220 SE

Diameter of pivot pin	Bore in guide sprocket	Radial play
$\frac{15.984}{15.973}$	$\frac{16.000}{16.018}$	0.016—0.045

If the bushing in the guide sprocket is worn, it should be pressed out and a new bushing with a rough-turned bore pressed in.

Before pressing in a new bushing, set up the guide sprocket in the bore and lightly re-finish the teeth at their circumference (permissible eccentricity 0.02 mm). After re-finishing the teeth, press in the new bushing and then again set up the guide sprocket, this time with a chuck adapter gripping the circumference of the teeth and finish-turn the bore of the bushing (16.000 to 16.018 mm).

Maximum run-out of guide sprocket when set up on mandrel, measured at the circumference 0.02 mm.

Maximum eccentricity of guide sprocket, measured at the circumference 0.02 mm.

If the pivot pin shows signs of wear, it must be replaced.

H. Testing of Rocker Arm and Rocker Arm Mounting

For Models 180 a, 180 b, 190 SL, 220 a, 219, 220 S, and 220 SE this procedure as well as the dimensions and tolerances of the individual parts are the same as described for Model 190.

On earlier models the rocker arms were secured by sheet-metal spring clamps, whereas on recent models only spring steel wire clamps were fitted. When repairs are carried out, use only spring steel wire clamps Part No. 180 055 00 93. If the old rocker arm blocks are not being replaced, they must be provided with a notch to secure the spring clamp as shown in Fig. 05-5/11. The notch must correspond exactly to the dimensions given overleaf in order to ensure that the clamp is tensioned sufficiently and engages properly.

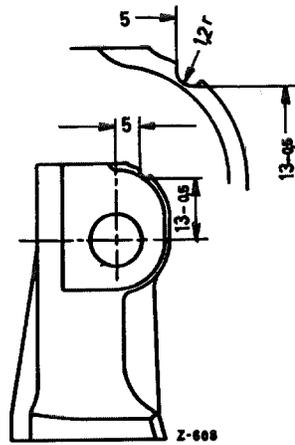


Fig. 05-5/11

Note: On Models 220 S and 220 SE the length of the rocker arm shafts is 153 mm for the 1st version and 159 mm for the 2nd version. The projecting ends of the 2nd version shafts prevent the spring clamps from jumping off the rocker arm shafts at high en-

gine speeds. If complaints are received, the 1st version can be replaced without any modification by the 2nd version (Part No. 180 055 08 05) on Models 219, 220 S, and 220 SE.