

G. Repair of Tension Sprocket and Bearing

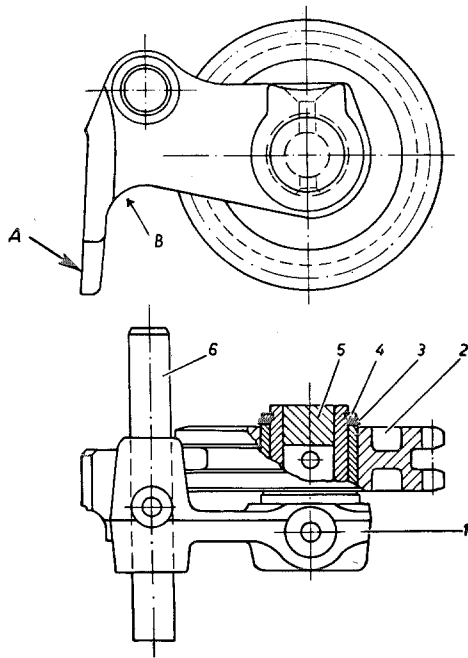


Fig. 05 — 5/12

- 1 Tension sprocket with pivot pin
- 2 Tension sprocket with bushing
- 3 Washer
- 4 Snap ring
- 5 Taper plug
- 6 Pivot pin for tension sprocket bearing in cylinder head

1. Remove the snap ring (4) and the washer (3), then pull off the tension sprocket.
2. After disassembling and cleaning the individual parts, thoroughly rinse out the bore in the pivot pin which is closed by the taper plug (5). If necessary, bore out the taper plug (5), remove the sludge, and drive in a new taper plug.
3. Usually, the nose of the tension sprocket bearing is worn at the place where it rests against the contact piece of the chain tensioner (see A in Fig. 05 — 5/12). Re-finish the worn parts.

Tension Sprocket and Bearing

Measurements in mm

Diameter of pivot pin 6	Bore in tension sprocket bearing	Diameter of pivot pin 1	Finish dimension of bushing in tension sprocket	Rough-turning dimension of bushing in tension sprocket
$\frac{9.995}{9.986}$	$\frac{10.000}{10.015}$	$\frac{19.980}{19.959}$	$\frac{20.000}{20.021}$	$\frac{19.600}{19.730}$

4. Check the pivot pins and bores for wear.

Radial play of tension sprocket (2) 0.020—0.062 mm

Radial play of pivot pin (6) in tension sprocket bearing 0.005—0.029 mm

If the bushing in the tension sprocket is worn, it should be pressed out and a new bushing with a rough-turned bore pressed in. The bushing must project 0.75 mm at the rear (Fig. 05 — 5/13).

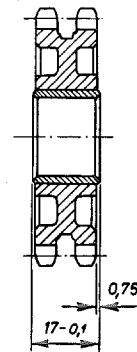


Fig. 05 — 5/13

Before pressing in a new bushing, set up the tension sprocket by means of a mandrel 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 tension sprocket, this time with a chuck adapter gripping the circumference of the teeth and finish-turn the bore of the bushing (20.000—20.021 mm).

Run-out of sprocket when set up on mandrel, measured at the circumference: max. 0.02 mm

Eccentricity of sprocket, measured at the circumference: max. 0.02 mm.

If the tension sprocket bearing shows signs of wear at the pivot pin or in the pivot pin (6) bore, the tension sprocket bearing must be replaced.

5. After re-installing the tension sprocket bearing in the cylinder head, fill the oil cavity in the tension sprocket bearing with oil for the initial running of the engine and then bleed the chain tensioner.