

Checking of Chain Tensioner

Types 220 and 220a

Operation No.
M 73b

As a rule, a special testing tool is required for checking proper functioning of the chain tensioner. In practice it will suffice to compare the performance of a defective tensioner and a new one. Fill the chain tensioner in a vessel containing engine oil and vent it. After the tensioner has been vented, it must only be possible to compress it very slowly and by exerting considerable force.

Chain tensioners that can be compressed easily will cause the chain to rattle. If the chain howls, this may indicate that the chain tensioner is adjusted too hard.

Before removing a chain tensioner on account of chain noises, make sure that chain does not hit some part or other. This may be the case in engines of the first series, if the eyelet for screw b in cylinder head (see Fig. M 3/21) has not been reduced sufficiently.

It is also recommended to check whether the idler gear support moves freely. It must be possible to sufficiently move the nose of the idler gear support (see A in Fig. M 73c/00) in the oil pocket in the cylinder head (see Fig. M 73/00). If this is not the case, it will suffice to rework nose of idler gear support or web for oil pocket in cylinder head.

Never recondition the hydraulic chain tensioner. If the tensioner develops trouble, exchange it.