## Sunbeam Service Sheet No. 11

Subject: Timing Chain Tensioner fitted to Engines with S.8 Prefix

Date: July 1951

To overcome premature failure of the tensioner and spring, the complete assembly has been redesigned. The modified components can be fitted to all engines bearing the S.8 prefix.

The complete engine unit must first be removed from the frame and the gearbox and clutch detached from the engine.

Take off the timing cover and remove the half time gear, camshaft sprocket and existing chain tensioner blade and spring.

Bend back the lock washer and remove the existing tensioner blade pivot pin and replace with the new washer and pin No. 89-116. Ensure that the lock washer is bent over the stud hexagon and the flat on the crankcase.

Remove the nut and spring washer from the end cover stud immediately below the pivot pin *(marked "X" in drawing overleaf)* and extract the stud. Replace with the new stud 89-136 and replace the original nut and spring washer.

Remove the inspection plug and fibre washer from the side of the crankcase.

Feed the new chain tensioner blade 89-117 on to the pivot pin and insert the bush 89-118.

The retaining clip 89-119 can now be fitted over the end cover stud and pivot pin and secured by nut  $1B - \frac{1}{5/16}$  and spring washer N 566.

Re-assemble the half time gear, camshaft sprocket and chain following the timing procedure given in the Instruction Manual.

Unscrew the two (2) round head screws and take off the cover and fibre washer from the new steady assembly.

Slacken off the '/4" bolt (marked "Y" in drawing overleaf) and screw the assembly into the crankcase using the fibre washer originally removed from the inspection plug.

Using a spanner on the flats provided, secure the steady assembly in position.

Turn the engine until either of the exhaust valves is partly open then tighten bolt "Y" securely.

Replace the steady cover and large fibre washer, making sure that the two (2) small fibre washers are fitted under the heads of the two (2) round head screws.

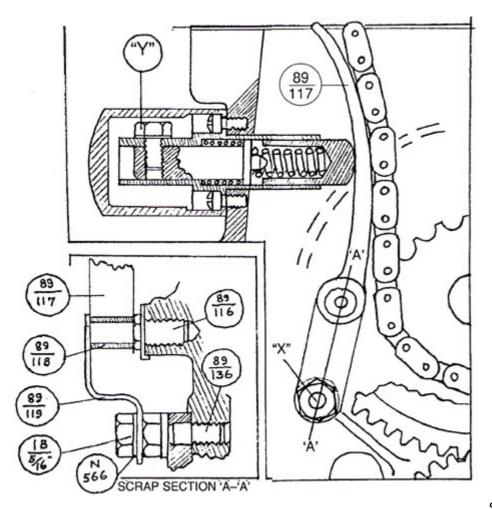
The engine unit can now be replaced in the frame in accordance with the directions given in the Instruction Manual.

Complete assembly No. 89-138.



## STEWART ENGINEERING

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