

HOW TO SET THE TIMING OF FS-20, FS-40, FS-40 SURPASS, FS-48 SURPASS, FS-61, FS-120 & FS-120 SURPASS

When replacing the camshaft, set the timing as follows.

1. Secure propeller or crankshaft spacer.
- Note: If propeller or crankshaft spacer is not secured, crankshaft may move backward and correct timing cannot be set.
2. Turn the crankshaft so that 'T' mark on the drive washer may match crankcase centre line. (This is engine T.D.C. position.)
 3. Push the camshaft into camshaft housing until it stops, with locating the end, that has centre hole on camshaft axis, this side. Locate '!' mark on the side of camshaft gear on the production of push rod.
 4. Rotate crankshaft right and left a little and make sure that the '!' mark of the gear locates on the production of push rod when the 'T' mark on the drive washer matches the crankcase centre line.
 5. Secure cam cover with screws.

The relation of position between '!' mark of the gear and teeth may differ from the sketch, by each model.

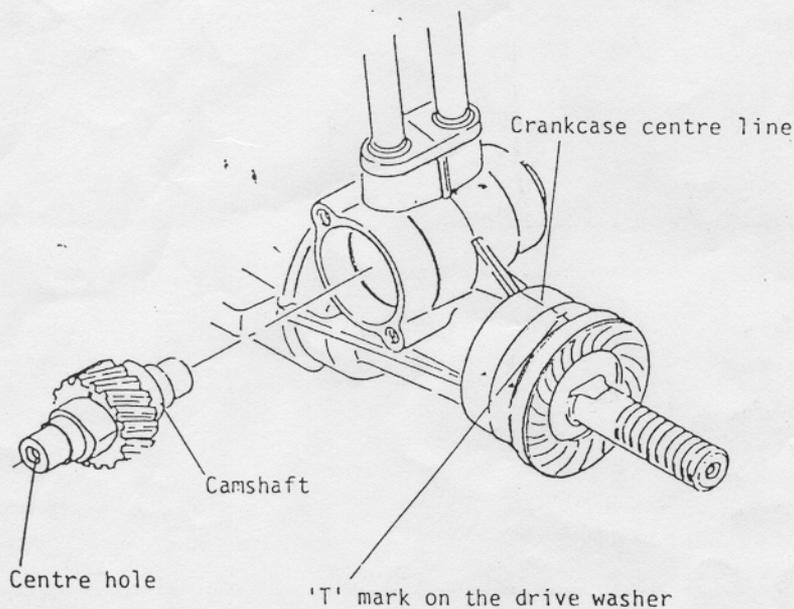


Figure 1

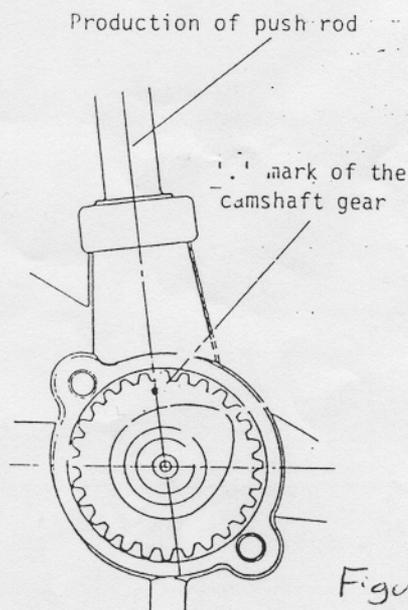


Figure 2

per Don (#5) 01-30-02

Four stroke Timing

1. Align the "T" mark on drive washer with mold line of crankcase, piston should be at Top Dead Center.

See figure 1

2. Insert camshaft with dot on cam gear facing out.
Align dot on camshaft with the center of the pushrod.

See figure 2

Note: This will work on most Four Strokes