

**Fig. 24—Measuring Timing Chain Stretch**

When installing timing chain, use Tool C-3509 to prevent camshaft from contacting the welch plug in the rear of engine block. Remove distributor and oil pump-distributor drive gear. Locate tool against rear side of cam gear and attach tool with distributor retainer plate bolt (Fig. 25).

(7) Place both camshaft sprocket and crankshaft sprocket on the bench with timing marks on exact imaginary center line through both camshaft and crankshaft bores.

(8) Place timing chain around both sprockets.

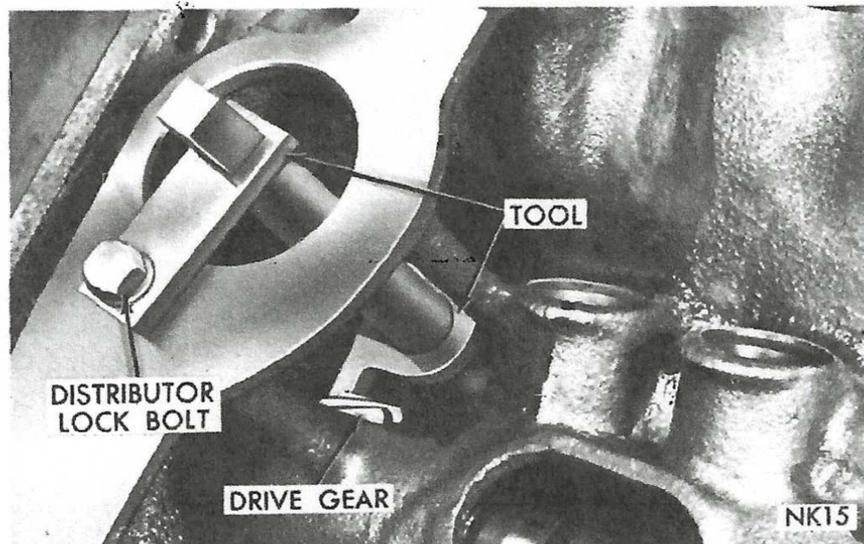
(9) Turn crankshaft and camshaft to line up with keyway location in crankshaft sprocket and in camshaft sprocket.

(10) Lift sprockets and chain (keep sprockets tight against the chain in position as described).

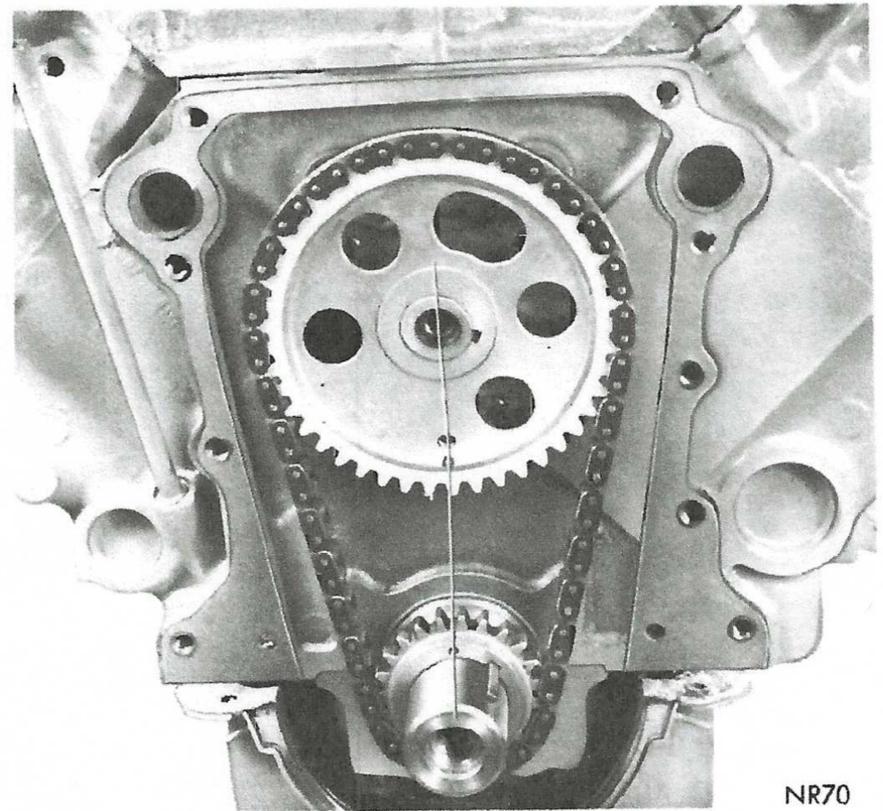
(11) Slide both sprockets evenly over their respective shafts and use a straight edge to check alignment of timing marks (Fig. 26).

(12) Install the fuel pump eccentric, cup washer, and camshaft bolt. Tighten bolt to 35 foot-pounds.

(13) Check camshaft for .002 to .006 inch end play with a new thrust plate and up to .010 inch end play



**Fig. 25—Camshaft Holding Tool C-3509**



**Fig. 26—Alignment of Timing Marks**

with a used thrust plate. If not within these limits install a new thrust plate.

(14) If within limits, slide the crankshaft oil slinger over shaft and up against sprocket (flange away from sprocket).

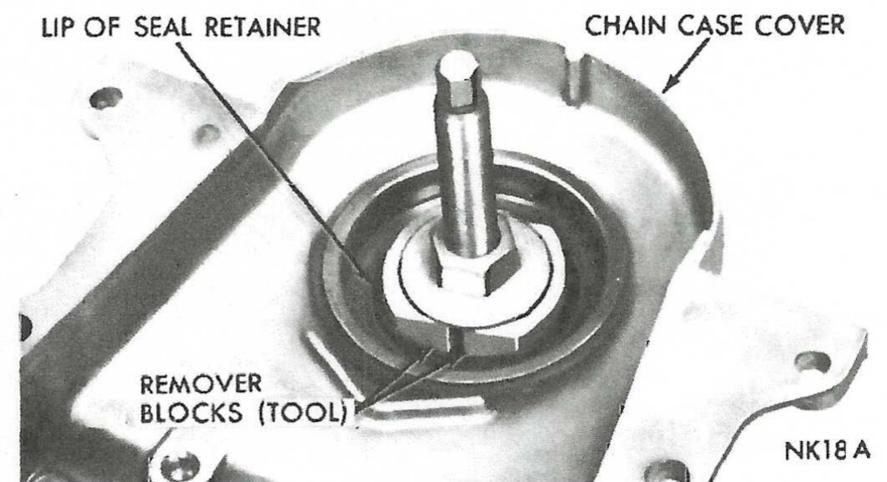
**Oil Seal Replacement (Cover Removed)**

(1) Position remover screw of Tool C-3506 through case cover with inside of case cover up. Position puller blocks directly opposite each other, and force the angular lip between the neoprene and flange of the seal retainer.

(2) Place washer and nut on remover screw. Tighten nut as tight as possible by hand, forcing the blocks into the gap to a point of distorting the seal retainer lip, (Fig. 27). This is important, **remover is only positioned at this point.**

(3) Place sleeve over the retainer and place removing and installing plate into sleeve.

(4) Place flat washer and nut on remover screw.



**Fig. 27—Remover Blocks Expanded to Puller Position**