McCULLOCH

SERVICE BULLETIN # 1130

SUBJECT: TIMING NEW ROUNDED-POINT BREAKER POINTS

MODEL ALL

DATE 5/11/61

1-71, 1-81 and 1-81HD

The new Breaker Assembly, P/N 55768, has a rounded surface on the stationary point. Erosion or wear of the surface of this point is quite rapid for the first few days of operation. When the breaker point clearance is set to specifications of 0.018 to 0.020 inch, this rapid wear increases the breaker point gap and the greater clearance advances the engine timing. To overcome this when the new breaker points are adjusted on installation, they should be set for a gap of 0.014 to 0.016 inch. With this clearance engine timing will be slow but during the period of rapid wear as the breaker point clearance increases, the engine timing will advance to its correct setting. It will take approximately 6 to 10 days of engine operation to reach this condition.

The loss of power from the retarded timing will be greatest at approximately 7500 RPM. However, this loss is small and at the peak cutting speeds, the power loss will not be noticeable.

For the first adjustment of the new breaker points Timing Indicator, P/N 57443A, is used:

Remove the flywheel and place the timing indicator, with the side marked 1-71 and 1-81 facing up, over the crankshaft with the notch in the timing indicator fitting over the Woodruff key. Connect one wire of a timing light to the breaker box terminal (disconnect the wire leading to the coil). Connect the other wire of the timing light to the engine frame. Adjust the breaker point setting until the timing light turns on when the right side of the timing indicator tab is approximately 3/16 inch from the left side of the center lamination of the coil assembly (see figure 1).

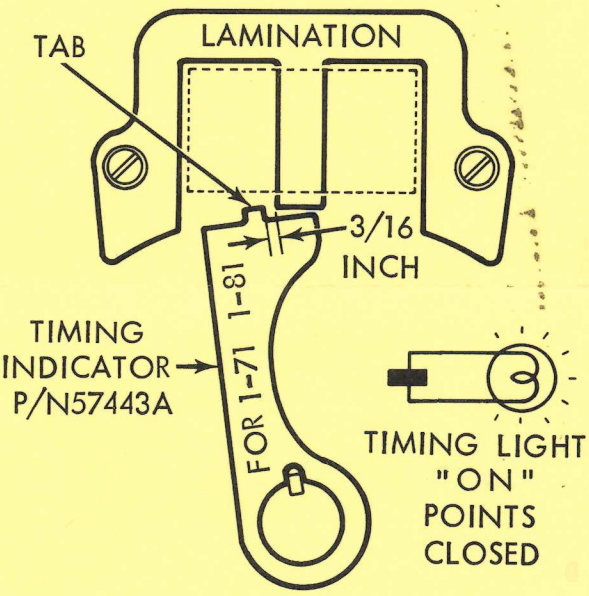


FIGURE 1. FIRST POSITION OF INDICATOR

NOTE:

All Model 1-71, 1-81 and 1-81HD engines, using the rounded surface breaker points, are shipped from the factory with the breaker point gap set at 0.014 to 0.016 inch.

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Turn the crankshaft counter-clockwise until the tab has moved 1/16 inch further to the left, at this position (see figure 2) the timing light should be out. Adjust the breaker points until the timing light turns off and on at these positions.

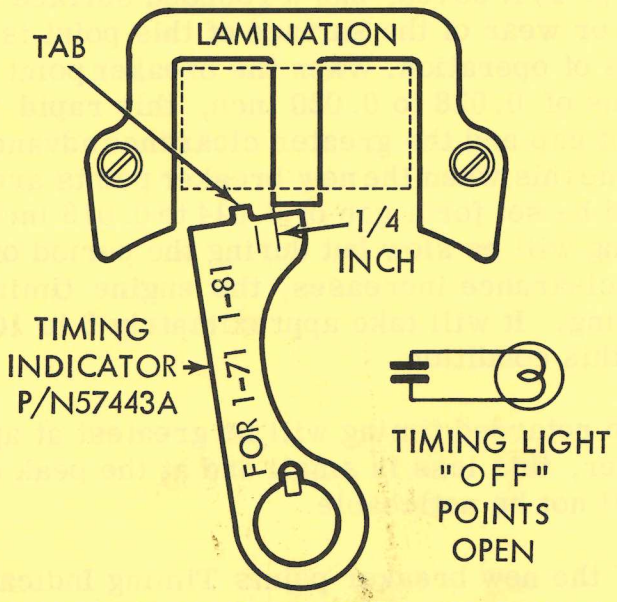


FIGURE 2. SECOND POSITION OF INDICATOR