

light bulb, with a wire leading from other terminal to a second clip. When properly constructed, bulb will light whenever circuit is closed or the two clips touched together.

To use the timing light, attach one clip to the insulated point and ground the other clip to the breaker plate as shown; thus, when either of the two sets of points are

closed the circuit will be closed and bulb will light.

A spark is induced in the magneto high tension circuit the moment the points open and interrupt the primary current flow. Four sparks must be induced (each 90° apart) with each complete revolution of the magneto. The points should be timed to open the instant that the flywheel timing

mark (A—Fig. E91) aligns with either of the timing marks (B) on breaker plate. Point opening for the other two cylinders is controlled by the shape of breaker cam, and will be correct after adjusting each set of points.

To adjust the points, remove flywheel cover and magneto drive belt. Disconnect the primary lead and connect the timing light as shown in Fig. E89. With flywheel timing mark (A—Fig. E91) aligned with the first breaker plate timing mark, loosen the breaker point clamp screw slightly and turn the adjusting screw until the points close and lamp lights. Turn adjusting screw in opposite direction until the lamp just goes out; then tighten clamping screw. Turn flywheel until flywheel timing mark aligns with the other breaker point timing mark (B), and repeat the adjustment with the second set of points. Recheck by turning the magneto pulley one complete turn in a clockwise direction to see that lamp goes out at the proper instant. Readjust, if required, by repeating the above procedure.

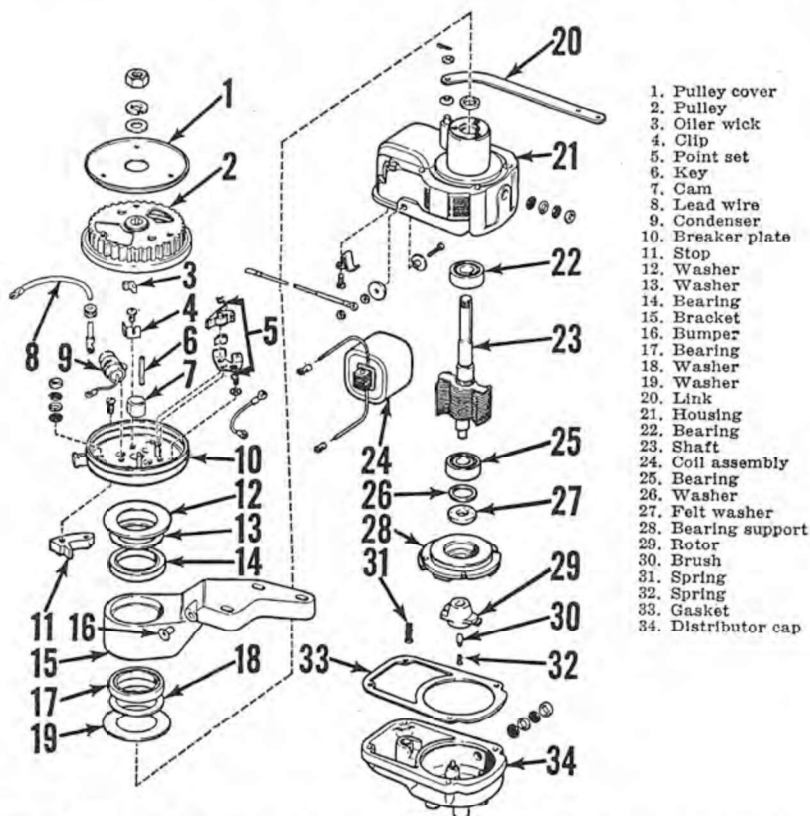


Fig. E88 — Exploded view of magneto of the type used. Magneto is belt driven from powerhead flywheel.

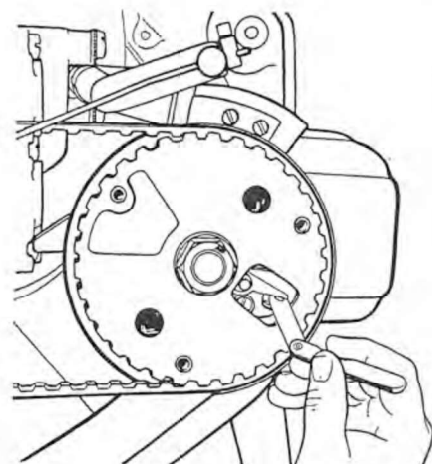


Fig. E90 — Pulley cover removed showing method of adjusting contact points. Point gap is approximately 0.020, but the two sets of points must be synchronized using a timing light such as that shown in Fig. E89.

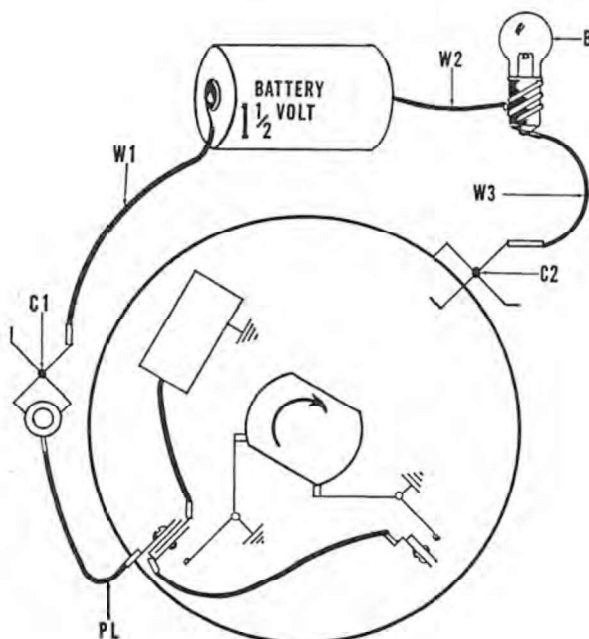


Fig. E89—Diagram showing method for constructing timing light using flashlight battery, bulb, wires and clips.

- B. Light bulb
- C1. Spring clip
- C2. Spring clip
- PL. Primary lead
- W1. Wire
- W2. Wire
- W3. Wire

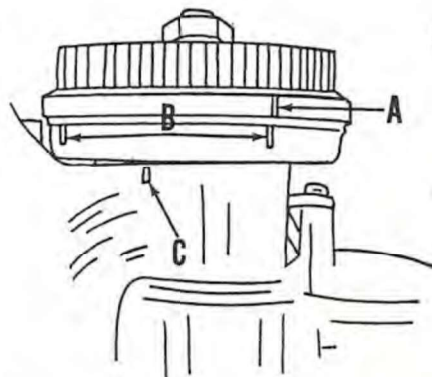


Fig. E91—Assembled magneto showing the three sets of timing marks. Refer to text.

- A. Pulley timing mark
- B. Magneto timing marks
- C. Mounting bracket mark