

DY - TONE

IGNITION TIMING UNIT

The Dy-tone has been designed to overcome the problems associated with the timing of flywheel magneto engines without the necessity of dismantling the engine. The note emitted by the Dy-tone changes its frequency when the contact breaker points open or close. When one lead of the Dy-tone is attached to the sparking plug lead and the other to earth, a high pitched note is emitted when the C.B. points are closed and a lower pitched note when the points are open.

The exact point at which the C.B. points open is thus easily established without dismantling any part of the engine, with the exception of the sparking plug lead. By determining the position of the piston at the moment when the Dy-tone frequency changes, the exact ignition timing can be obtained. Furthermore, by establishing when the C.B. points close and open, the dwell angle can be measured. Reference to the engine data will establish immediately whether the points are set to open at the correct moment of time. Thus the exact position of points opening can be checked either against dwell angle or in terms of degrees BTDC.

The Dy-tone is housed in a strong light-weight cast alloy box which fits comfortably into a man's hand. The circuit is constructed and the components assembled in a manner which will withstand all the normal rigours of workshop use. The Dy-tone is powered by a readily obtainable 9 volt high power P.P.3 battery.

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ANOTHER LEDGER GROUP PRODUCT

I N S T R U C T I O N S

D Y - T O N E

I G N I T I O N T I M I N G U N I T

Flywheel Magneto

1. Remove plug lead and attach it to the multi-terminal end of the Dy-tone lead.
2. Attach the croc clip of the other lead to a convenient earth.
3. Switch on. The Dy-tone will emit a high pitched note.
4. Crank the engine slowly. (Remove sparking plug for convenience.)
 - a) When the contact breaker points are closed, a high pitched note is emitted.
 - b) When the C.B. points are open, a lower pitched note is emitted.
 - c) If there is no change in frequency a constant high note indicates the points are remaining closed and a constant lower note indicates the points are remaining open.
 - d) If the change of note is not clean, i.e. the changeover from high to low is an uneven discord, there is a fault in the ignition system e.g. loose H.T. lead, C.B. points pivot damaged or worn.
5. The timing of the engine should be checked with the timing data supplied by the engine manufacturer.

Battery Ignition

1. Switch ignition OFF or DISCONNECT battery.
2. Proceed as above but connect multi-terminal lead to the coil H.T. connection.

Battery.

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