

INDUCTOR

DUAL MAGNETO SYNCHRONIZER

WITH FOUR PHASE AUDIO SIGNAL
(FOR USE ON ALL BREAKER POINT TYPE MAGNETOS)

Principle of Operation

The INDUCTOR measures the change of inductance in the magneto secondary coil as a means of determining the exact instant the magnetos' breaker points open.

Instructions for Operation

Remove one plug from each cylinder. If the magnetos have impulse couplings - these must be in the "unloaded" position. Connect the **BLACK** lead to the engine ground (any exposed metal surface on the engine or magneto casing will serve as a good ground). Connect the **RED** and **GREEN** leads to the left and right magneto P-Lead terminals respectively. Turn on the INDUCTOR timing device. The LED's will light if the points are closed. Turn the propeller slowly in the direction of normal travel and observe that the LED's will extinguish at the instant the magneto points open. At this same time the audio tweeter will emit a signal. The magneto connected by the red lead will sound a rapid beat rate on the audio tweeter. The magneto connected by the green lead will emit a slower beat rate. When both sets of points are open, a third and continuous sound will be emitted. Keep in mind that the magneto fires the spark plug at the point the LED turn off and the audio signals begin. Adjust your magneto timing accordingly.

Troubleshooting

- The most common operating errors are: 1) the black (ground) lead is not attached to a proper ground or has become disconnected while other leads are being attached and the operator has failed to notice, 2) the operator has failed to "unload" the impulse couplings before using this device.
- A common misconception made by mechanics who have used other timing devices is the expectation that this device is a continuity tester. They incorrectly expect that shorting the lead clips together will produce a sound or a light indication. Nothing should happen if lead clips are shorted together. By design, this device uses the measure of inductive current(not continuity!) to determine the position of the breaker point and, in so doing, this design eliminates false readings caused by loss of contact to the magneto grounding terminal.
- Low Batteries - the LED's will continue to burn after the battery voltage drops below the 3 volts needed to operate the electronic circuitry. When the lights fail to indicate a point closing, or the tweeter begins to sound erratic, then it's time to change the battery - 9 volt alkaline.

Warranty and Repairs

This device is guaranteed against failure due to materials and/or workmanship for one year after purchase by:

Ignition Timers, LLC
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WARNING: DO NOT USE THIS DEVICE ON BATTERY IGNITION SYSTEMS