

EASTERN ELECTRONICS MFG. CORP

180 ROBERTS STREET, EAST HARTFORD, CONNECTICUT 06108

Model E-25 Timing Indicator

INSTRUCTIONS

1. Remove all top spark plugs. Install top dead center locator into No. 1 cylinder top spark plug hole.
2. Install timing disc indicator on aircraft propeller spinner or hub.
3. Turn propeller slowly in direction of rotation until piston lightly touches T.D.C. locator.
4. Rotate disc to timing indicator until the top center (T.C.) mark is under the pointer.
5. Slowly turn propeller in opposite direction until the piston lightly touches the T.D.C. locator. Observe reading on the disc under the pointer and move disc to exactly one-half of the number of degrees toward the top center mark.
6. Remove T.D.C. locator from cylinder and find the compression stroke of No. 1 cylinder by placing finger over spark plug hole and rotate propeller until blow by is felt by the finger, continue rotation until pointer is under T.C. You have now found top center on the compression stroke.
7. To either check the magneto timing or to time the magnetos to the engine, move the propeller opposite direction of rotation past the specified magneto timing setting and then back in the direction of rotation until the desired setting before top center is under the pointer (this removes the factor of gear backlash).
8. The breaker points should just be starting to open at this setting. Breaker points opening should be checked with an Easter Model E-50 Synchronizer.

NOTE

- A. A light tap of the finger against the dial will insure absolute correct timing.
 - B. An occasional drop of oil at the pointer busing is all that is required to keep the timer in good operating condition.
-

Model E-50 Magneto Synchronizer

INSTRUCTIONS

1. Place aircraft ignition switch in off position.
2. Attach black ground lead to any good engine ground.
3. Attach left red lead to points of left magneto.
4. Attach right red lead to point of right magneto.
5. Turn Synchronizer switch on.
6. Turn aircraft ignition switch on.
7. Rotate engine slowly watching lights on synchronizer. Each light will indicate the exact point opening and closing.
8. Adjust magnetos until both lights are in synchronous, and/or when buzzer changes pitch.
9. Turn aircraft ignition switch off.
10. Remove synchronizer.

NOTE: The Model E-50 Synchronizer will absorb all current from the magnetos with no danger of engine firing while adjustments are being made.

MAINTENANCE: This unit has been designed for long life. In the event battery replacement is necessary remove the four corner screws and withdraw the entire mechanism from its case. Replace worn out batteries with four type AA 1½ V batteries. For any other repairs or replacement parts return to the manufacturer.