MAGNETO SYNCHRONIZERS, TYPES A and B

Ref. No. ... ... *Type A* 5G/1113
Type B 5G/2836

Dimensions ... ... *Type A* 4 *in.* × 4 *in.* × 5 *in.*
Type B $4\frac{5}{8}$ *in.* × $4\frac{1}{4}$ *in.* × $2\frac{7}{8}$ *in.*

Weight ... ... $2\frac{1}{2}$ *lb. approx.*

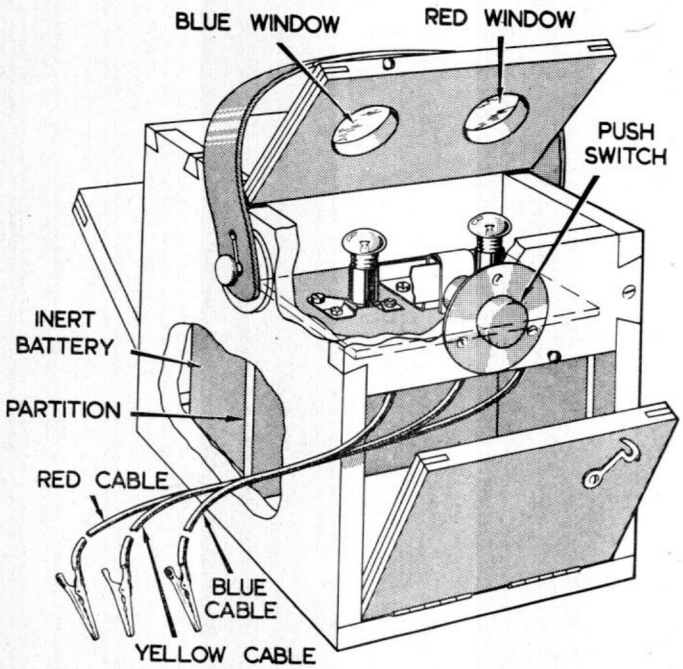
Associated publication A.P.1374G, Vol. 1, *Sect.* 3, *Chap.* 2 & 3

BRIEF DESCRIPTION

The Type A and B synchronizers are designed for checking the timing of aero-engine magnetos and the continuity of electrical circuits.

The Type A synchronizer consists of a battery, a push-switch and two lamps having separate leads either of which may be used for continuity testing and both of them being connected to the contact breakers of two magnetos when checking synchronization. This synchronizer cannot be used for testing magnetos on which the contact breakers are sealed.

The Type B synchronizer differs from the Type A in that it has only one test circuit, its indicator lamp lights when the magneto contact breaker points are open, and it uses a.c. in the test circuit thus enabling the timing of a magneto to be checked without disconnecting the primary winding from the contact breaker. The synchronizer comprises a miniature buzzer operated from a 4·5 volt dry battery and having two test leads shunted by an indicator lamp, connected across the buzzer contacts and a capacitance. In operation a pulsating current is applied through the capacitance and the test lead to the switch terminal of a magneto and, if the contact breaker points are open, to the primary winding the impedance of which is sufficient to develop a voltage across the indicator lamp, causing it to light. When the contact breaker points close the primary winding and the lamp are short circuited and the light is extinguished. Since the Type B synchronizer has only one indicator lamp, a second instrument is necessary to enable the timing of two magnetos to be synchronized.



Magneto Synchronizer, Type A

Magneto Synchronizer, Type B