



# AIRCRAFT TOOL SUPPLY COMPANY

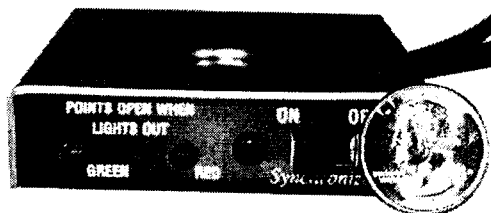
P.O. BOX 370 • 1000 OLD U.S. 23 • OSCODA, MI 48750 • Voice (989) 739-1447 • Fax (989) 739-1448  
http://www.aircraft-tool.com • email: info@aircraft-tool.com

## DUAL MAGNETO SYNCHRONIZER

WITH FOUR PHASE AUDIO SIGNAL  
(FOR USE ON ALL BREAKER POINT TYPE MAGNETOS)  
(Model Number LED-52)

### Features

- 100% Solid State
- Latest Digital Integrated Circuitry
- Bright LED Readout
- Color coordinated leads to LEDs
- Electronic tweeter
- Magneto leads four feet long
- Measures change of induction in coil
- Long battery life
- Strong anodized aluminum case



### PRINCIPLE OF OPERATION:

This device measures the change of inductance in the magneto coil when the points open or close. **Simply shorting the clip leads together will not indicate a point closing.** This is by design, and intended to eliminate false readings caused by loss of contact to the magneto's grounding terminal.

### INSTRUCTIONS:

Remove one plug from each cylinder. Connect the **BLACK** lead to the engine ground (any exposed metal surface in the engine compartment will serve as a good ground). Connect the **RED** and **GREEN** leads to the right and left magneto P-Lead terminals respectively. Turn on the unit and the LED's will light indicating that 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 points of the magneto open. At the same time the tweeter will emit an audible signal to confirm the points breaking. The tone of the tweeter will indicate which point has opened, with the green side emitting a lower tone than the red side. When both points are open, you will hear a distinct third tone that represents the combination of both sounds. **The magneto fires the spark plug at the point the LED turns OFF and the audio signal begins. Adjust your magneto timing accordingly.**

### LOW BATTERY WARNING:

When the indicator lights (LED) fail to indicate the points opening by going out, or the tweeter begins to sound erratic, then it's time to change your batteries. It is recommended that you use only alkaline batteries as replacements.

DO NOT USE THIS DEVICE ON ELECTRONIC IGNITION SYSTEMS



# AIRCRAFT TOOL SUPPLY COMPANY

P.O. BOX 370 • 1000 OLD US 23 • OSCODA, MICHIGAN 48750  
TELEPHONE (989) 739-1447 • FAX (989) 739-1448  
www.aircraft-tool.com • info@aircraft-tool.com



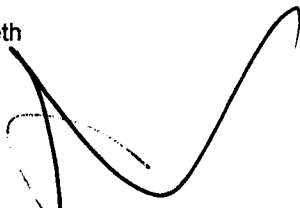
Customer No: 69710



GOODWIN, MARTYN  
90 LYON ROAD  
VIEWBANK VIC, 3084  
AUSTRALIA



GOODWIN, MARTYN  
90 LYON ROAD  
VIEWBANK VIC, 3084  
AUSTRALIA

04/09/2012		WEB 577313		C/Card		4/9/2012		First-Class Mail Int	
1	1	1	1813	LED51 MAGNETO SYNCHRONIZER (SINGLE D			42.95	42.95	
<b>Export Declaration:</b> Hand Tools made of steel, plastic, and/or glass for use in Aircraft fabrication and repair. Made in the United States of America. This shipment contains _____ Carton(s) of weight _____ lbs.									
Thank You very much for your order -- Beth 							SUB-TOTAL	42.95	
							SALES TAX		
							SHIPPING/FREIGHT	8.68	
							MISC. CHARGES		
							<b>ORDER TOTAL</b>	<b>51.63</b>	
							PAYMENT/CREDIT	51.63	
							<b>BALANCE DUE</b>	<b>0.00</b>	

**ORIGINAL INVOICE** PLEASE PAY THE AMOUNT INDICATED ON THIS INVOICE PROMPTLY TO AVOID FINANCE CHARGES

A FINANCE CHARGE of 1.5% per month not exceeding an annual percentage of 18% will be applied to any unpaid balance commencing the day after the due date of this invoice.  
CLAIMS must be made within 15 days of receipt of goods. We do not ensure delivery or safe carriage of goods and our responsibility ceases after delivery to transportation company in good order.



P.O. BOX 370 • 1000 OLD US 23 • OSCODA, MICHIGAN 48750  
 TELEPHONE (989) 739-1447 • FAX (989) 739-1448  
 www.aircraft-tool.com • info@aircraft-tool.com

## LETTER OF CONFORMANCE

### General Product



GOODWIN, MARTYN  
 90 LYON ROAD  
 VIEWBANK VIC, 3084  
 AUSTRALIA



GOODWIN, MARTYN  
 90 LYON ROAD  
 VIEWBANK VIC, 3084  
 AUSTRALIA

ITEMS			
69710	398115	04/09/2012	04/08/2012
1	LED51	1	MAGNETO SYNCHRONIZER (SINGLE D

Aircraft Tool Supply Company certifies that the product (or products) identified in this document has been manufactured, calibrated, and/or tested to Aircraft Tool Supply Company's published specifications for this product. Records substantiating the above statement and documenting our manufacturing and quality control practices are available for inspection by authorized personnel.

x *Mauro Passaro*  
 Quality Control Manager

4-9-12  
 Date