Unison's LASAR electronic ignition system installs easily in piston engines. Reduce your operating costs through lower fuel consumption and increase the aircraft range.

Follow the steps below to purchase a LASAR system. Click on the correct part number, add to your shopping cart and return to the steps outlined with the back button.

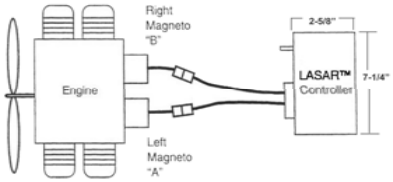
LASAR CONTROLLER

STEP 1	Determine if the Lasar controller input power will be regulated at **12 volts or 24 volts.** Aero only stocks CHT controllers. **ORDER 1** (per engine)		
Airframe Voltage	**Base Timing Angle**	**12 Volt System** Part Number	**24 Volt System** Part Number
Engine Series:			
O & IO-320	25°	**LC1011-01**	**LC1012-01**
O-360	25°	**LC1011-04**	**LC1012-04**
IO-360 - 180 HP	25°	**LC1011-03**	**LC1012-03**
IO-360 - 200 HP	20°	**LC1011-02**	**LC1012-02**
	25°	**LC1011-14**	**LC1012-14**
O & IO-540	25°	**LC1011-15**	**LC1012-15**
IO-540	20°	**LC1011-10**	**LC1012-10**

LASAR MAGNETO

STEP 2	Determine the base ignition timing angle printed on the engine data plate and the drive configuration of the right and left magnetos removed from the engine. Then select the appropriate magneto models from the table below. **Order 1 right & 1 left.** (per engine)							
	MAGNETO MODEL SELECTION TABLE							
Engine Series	O/IO-320 & O/IO-360				IO-540		O/IO-540	
Base Timing Angle	25°		20°		20°		25°	
	PART NUMBER		PART NUMBER		PART NUMBER		PART NUMBER	
Drive System	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
Direct Drive	**4755**	**4776**	**4755**	**4766**	**6766**	**6755**	**6776**	**6755**
Impulse Coupled	**4755**	**4771**	**4755**	**4761**	**6766**	**6755**	**6776**	**6755**

LOW VOLTAGE CONTROL HARNESS



STEP 3

The Lasar Controller interfaces with various airframe systems and the two magnetos through a Low Voltage Control Harness (LVCH). This harness includes two bundled wire branches which terminate in connectors mating to the Lasar magnetos. These two terminated wire bundles are available in various length to accomodate different system installations.

MEASURE: Starting from the firewall mounting position, measure to the left and to the right magneto. To determine harness length subtract 3" (lasar controller thickness) from each measurement. Note lasar controller drawing. Using the chart below, intersect the measurement from each magneto to determine the length to order. Order 1 (per engine)

Controller LENGTH to **LEFT** Magneto

Controller LENGTH to **RIGHT** Magneto

INCHES	12	18	24	30	36	42	48	54	60	72
12	**LH1004-10**	LH1004-11	LH1004-12	LH1004-13	**LH1004-14**	LH1004-15				
18	LH1004-16	LH1004-17	LH1004-18	LH1004-19	LH1004-20	LH1004-21	LH1004-22			
24	LH1004-23	LH1004-24	LH1004-25	LH1004-26	LH1004-27	LH1004-28	LH1004-29	LH1004-30		
30	LH1004-31	LH1004-32	LH1004-33	LH1004-34	LH1004-35	LH1004-36	LH1004-37	LH1004-38		
36	LH1004-39	LH1004-40	LH1004-41	LH1004-42	LH1004-43	LH1004-44	LH1004-45	LH1004-46	LH1004-47	
42	LH1004-48	LH1004-49	LH1004-50	LH1004-51	LH1004-52	LH1004-53	LH1004-54	LH1004-55	LH1004-56	
48		LH1004-57	LH1004-58	LH1004-59	LH1004-60	LH1004-61	LH1004-62	LH1004-63	LH1004-64	-65
54			LH1004-66	LH1004-67	LH1004-68	LH1004-69	LH1004-70	LH1004-71	LH1004-72	-73
60					LH1004-75	LH1004-76	LH1004-77	LH1004-78	LH1004-79	-80
72							LH1004-82	LH1004-83	LH1004-84	-85

Click on the part number to order - Purchase only 1 each (per engine)

A.E.R.O. stocks the 2 harnesses that fit most applications; however, if you need another size please call 800-362-3044.

CHT Temperature Control

Step 4	Instrument (CHT) Manufacturer	Part Number Thermocouple
Determine Thermocouple by Manufacturer **Order 1** (per engine)	ALCOR (Red & Yellow Wires)	**M5340-02**
	Lewis Engineering Electronics International Vison Micro (Yellow & Black Wires or Red & White Wires)	**M5340-03**

Cockpit Enunciator Light

Step 5	Order 1 receptacle & 1 bulb (per engine)	Part Number
Order Receptacle	Enunciator Light Receptacle	**M5470-01**
Order 14 or 28 volt	14 VDC 10 Amp	**M5470-14**
	28 VDC .04 AMP	**M5470-28**

Light becomes illuminated when the LASAR system is operating in the backup mode. Illumination of this light indicates the LASAR system has automatically switched to backup operation and that the aircraft may require service prior to the next flight.

LASAR TOOL

The SynchroLASAR tool is used to synchronize Slick 4700/6700 LASAR magnetos to the engine during installation using the right and left LASAR magneto connectors. During bench inspections and overhaul, the SynchroLASAR is also used to adjust the magneto contact breaker opening position when the cover and low voltage control harness pigtail are removed. Please refer to the LASAR Maintenance and Overhaul Manual, Publication L-1503, for additional details.

LASAR TOOL	**T-300**