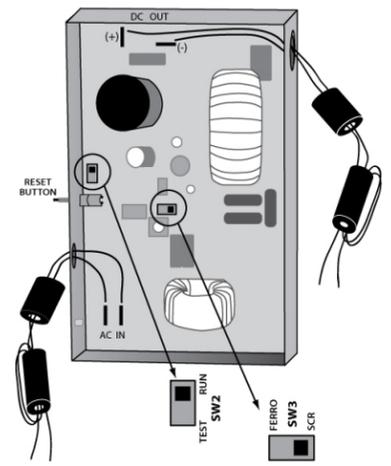


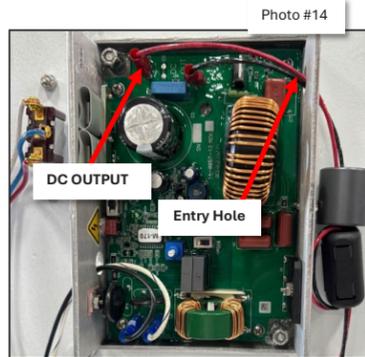
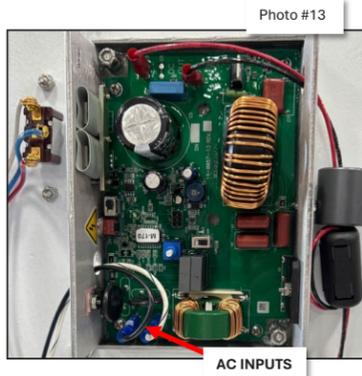
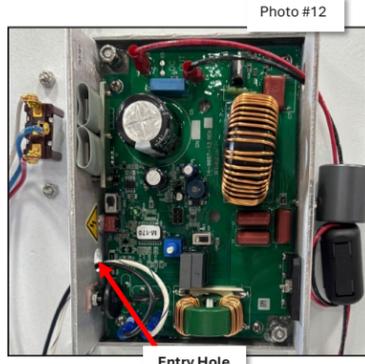
7. Using the switches on the L610 Controller

- Switch **SW2** (Run & Test) is used to isolate controller programming functions when troubleshooting (One out, all out).
- Switch **SW3** (Ferro & SCR) is used to set controller functions with constant current regulators (CCR's)



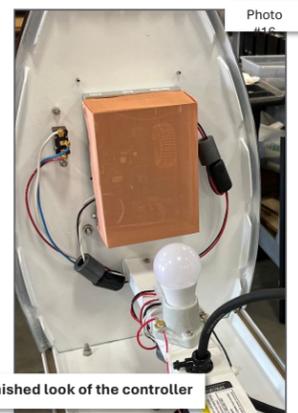
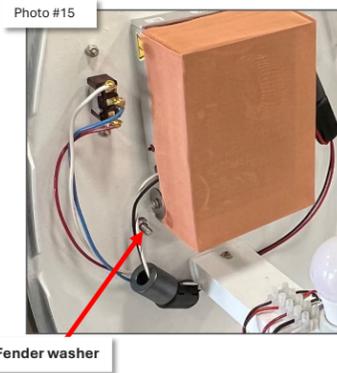
6. Connecting the Filter and Controller

- Identify the filter input leads. Install these leads into the terminal strip opposite of the power cord leads. These leads must be installed in parallel with the surge protector (Figure #11). These connections are not polarity sensitive.
- Identify the filter output leads. These will have two factory-installed black ferrites. Route these leads through the hole on the lower left side of the Controller (Photo #12) and connect to the AC input of the Controller (Photo #13). These connections are not polarity sensitive.
- Identify the DC controller output leads, factory installed on the Controller (Photo #14) with two black ferrites. Connect these two leads to the terminal strip (Figure#11). These leads are polarity sensitive. The Red lead is (+). Black lead is (-).



8. Installing the Shielding Screen

On each side of the Controller are screws and fender washers (Photo #15). These hold the shielding screen in place. If the fender washers are tight to the side of the Controller, loosen them slightly to slip the edge of the screen between the fender washer and the controller case. The shielding screen is shaped to fit the Controller precisely. Once the screen is in place, tighten the screw & fender washers to secure the screen. The screen is installed to shield out radiated emissions (Photo #16).



9. Installing the OEM Electrical Upgrade Nameplate

Each Lumacurve LED Upgrade Kit contains an OEM Electrical Upgrade Label (Photo #17) and (2) 1/8" pop-rivets. Information on this label is critical for future sign maintenance. This label should be mounted to the sign end panel (power side of sign) just below the original factory nameplate.

- Be careful not to come into contact with any components mounted on the inside of the end panel. Carefully position the OEM Electrical Upgrade Label just below the original factory nameplate. While holding the label in place, use a 1/8" or 9/64" drill bit to drill through the two holes in the label.



- Install two 1/8" pop-rivets to secure the label in place.

10. Checking system & restoring the sign to service

The electrical components should now be mounted and wired properly.

- Insert all lamps into the sockets.
Warning: the use of non-OEM replacement lamps may damage electrical components and cause premature lamp failure. Only OEM Lumacurve lamps will maintain FAA photometric requirements and factory warranties.
- Check that the adequately sized isolation transformer is being used. See chart.
- Power up sign and check that all lamps are functioning properly.
Note: If sign is not functioning, revisit the above steps once again to ensure the sign is wired correctly. If there are still problems, contact us for technical support at 800-258-1997 or visit our [Help Yourself Center](#) and for videos and troubleshooting documents.
- Reinstall all the legend panels. Replace and secure all sign tops.

Use the chart below to identify the proper size isolation transformer:

SIGN SIZE & MODULE LENGTH	LAMPS	FAA Style 2 (4.8A-6.6A) FAA Style 3 (2.8A-6.6A)			FAA Style 5 (5.5A)		
		4W LED			4W LED		
		ISO XFMR	MAX VA	POWER FACTOR	ISO XFMR	MAX VA	POWER FACTOR
Size 1, 1-mod	2	100W	49	.94	100W	37	.94
	2-mod	100W	64	.88	100W	48	.89
	3-mod	100W	67	.89	100W	50	.90
	4-mod	100W	73	.90	100W	56	.91
Size 2, 1-mod	3	100W	62	.87	100W	46	.88
	2-mod	100W	67	.89	100W	50	.90
	3-mod	100W	74	.90	100W	58	.92
	4-mod	100W	78	.91	100W	62	.93
Size 3, 1-mod	3	100W	62	.87	100W	46	.88
	2-mod	100W	67	.89	100W	50	.90
	3-mod	100W	74	.90	100W	58	.92
	4-mod	100W	78	.91	100W	62	.93
Size 5, 1-mod	3	100W	62	.87	100W	46	.88
	6	100W	67	.89	100W	50	.90