



A-73-179 (Revised)

Subject: 1500 SERIES PROJECTOR AMPLIFIERS (#014583) Date: 3-18-74

Reference: Service Manuals #72774 (Manual) and #72745 (Autoload)

Model 1500 Series Projectors coming in for service must be examined for proper heat transfer between the amplifier and end plate bosses.

Remove the amplifier and examine the three bosses for any traces of paint. If surfaces are painted or appear rough, they should be filed. To do so, lay projector amplifier side down. Use a double cut flat file and draw file back and forth, exerting pressure with your fingers on file surface above the bosses. It is important that bosses be filed flat. All three bosses must be filed level to each other. Use a metal straight edge to check flatness.

Inspect that no burrs exist at the threaded hole in the end bosses of the side casting. Burrs will prevent intimate contact between heat-sink and mounting surfaces. Remove burrs with a drill manually held in hand.

The original mounting screws (#30808 or 30833) Figure 2 Index 5 or 5A have been changed. The amplifier heat sink plate should be mounted to the heat sink bosses with a #47974 spacer and #30810 hex head screw. Slide spacers onto screws and then position the amplifier. Tighten screws securely 8 in. lb. The purpose of the spacer is to insure that an adequate clearance exists between transistor and screw head.

Be sure to reapply silicon heat transfer grease before remounting power output transistors.

The improved heat sink remounting of the amplifier should be made on all warranty repairs or when amplifier repairs are made on customer's equipment out of warranty. Projectors manufactured after 1973 (Serial #4001001 and up) have the new heat sink screws and spacers.

The screws (#30810) and spacers (47974) can be ordered in the usual manner on a Service Parts Order Form #878.



A-74-194

Subject: EXCITER LAMP WIRING - 1500 SERIES PROJECTORS

Date: 4-15-74

Reference: Service Manual #72745 (Autoload) & #72774 (Manual Load)

The exciter lamp in currently manufactured 1500 series projectors is wired differently than models produced earlier. The exciter lamp secondary of the power transformer is now switched on and off by the main switch. This improvement provides more reliable operation of the exciter lamp circuit.

If exciter lamp current surges have caused exciter lamp power transistor (Q7) to blow, the exciter lamp should be rewired. Currently manufactured or rewired projectors will have the orange wire from terminal "1L1" on main switch soldered to terminal "Z-22" on the P.C. board connector (terminal nearest the rear cover).

The procedure for rewiring the exciter lamp is as follows:

1. Remove the rear cover and move out of the way.
2. Unsolder the orange wire that connects to terminal "R-14" on the P.C. board connector.
3. Unsolder the red power transformer wire from terminal "Z-22" on connector.
4. Solder the orange wire to terminal "Z-22" on connector.
5. Solder and crimp a flag terminal lug (#32093) to the red transformer wire.
6. Disconnect the yellow wire from terminal "1L1" on the main switch and connect the red transformer wire (new flag terminal lug) to terminal "1L1".
7. Cut the lug off the yellow wire. Strip and tin the wire (1/2 inch) and solder to terminal "R-14" on the P.C. board connector.

NOTE: When resoldering wires to the connector terminals, take caution not to burn other wires with the solder iron or short terminals together with solder.

8. Reassemble the rear cover and check out the projector for proper operation.