

ColorDMD 128x16 H-LED Display Installation Instructions for **Data East** Wooden Light Panels

Congratulations on the purchase of a new ColorDMD display. The ColorDMD will enhance your pinball machine by introducing *color* to the dot matrix display graphics produced by the game.

Tools Required:

- Phillips Screwdriver • 1/4" Nut Driver
- Nippers / Small Diagonal Cutters
 Marker Pen
- Drill with 5/64" drill bit



Be sure to turn **OFF** the power to the pinball machine before installing the ColorDMD 128x16 H-LED display.

NOTE: The ColorDMD 128x16 H-LED Display ships configured for installation on a metal speaker panel. Some disassembly of the ColorDMD is necessary for installation on wooden light panel games.

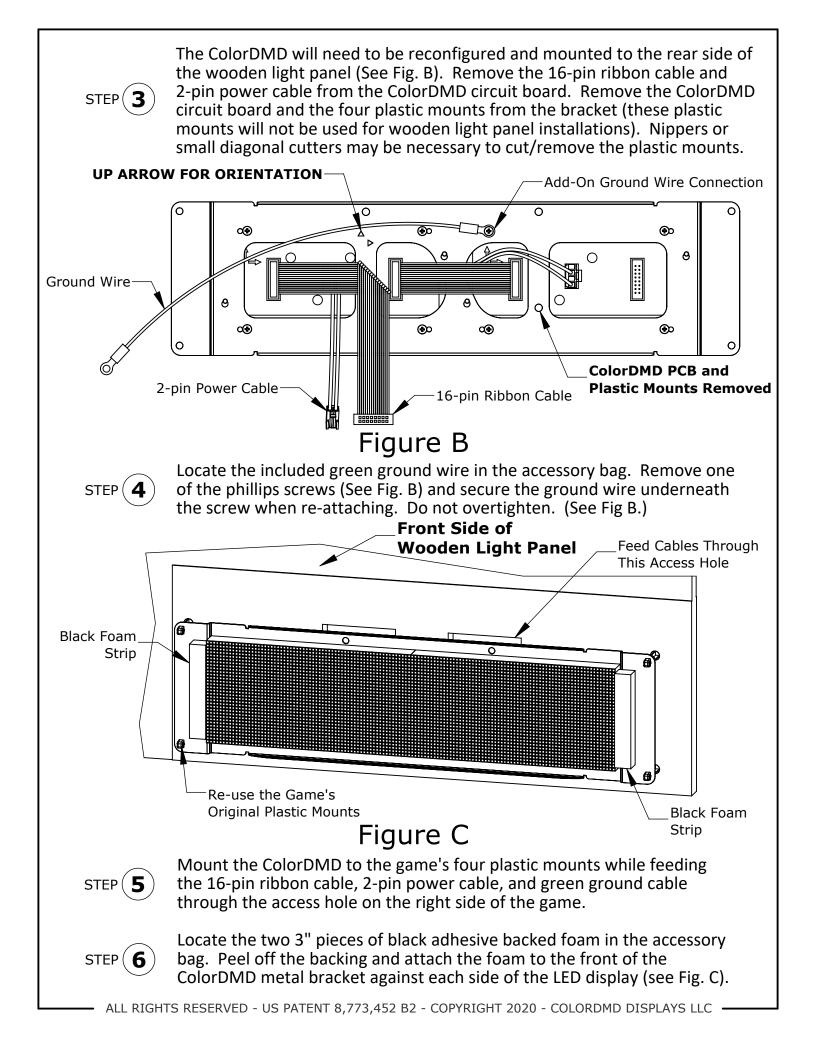
STEP(

Remove the original DMD from the pinball machine by detaching it from the four plastic mounts and disconnecting the two cables. Insulate the disconnected original DMD high power cable with electrical tape (it will not be used with the ColorDMD 128x16 H-LED display).



Carefully extract the game ROM chip from socket U8 on the back side of the original DMD and then insert it into socket U9 on the ColorDMD circuit board. Orient the ROM chip so the half moon polarity markers on the ROM chip and the socket are on the same end. Ensure all of the game ROM chip pins are properly inserted into the socket. Game ROM chips shorter than the socket are inserted as shown in Fig. A.

Insert shorter ROM chip Shorter ROM chip aligned offset 2 positionsto the right flush with this end of socket Polarity marker on game Game ROM chip ROM chip on same side with thefrom original DMD polarity marker on socket inserted into socket U9 on ColorDMD circuit board Figure A



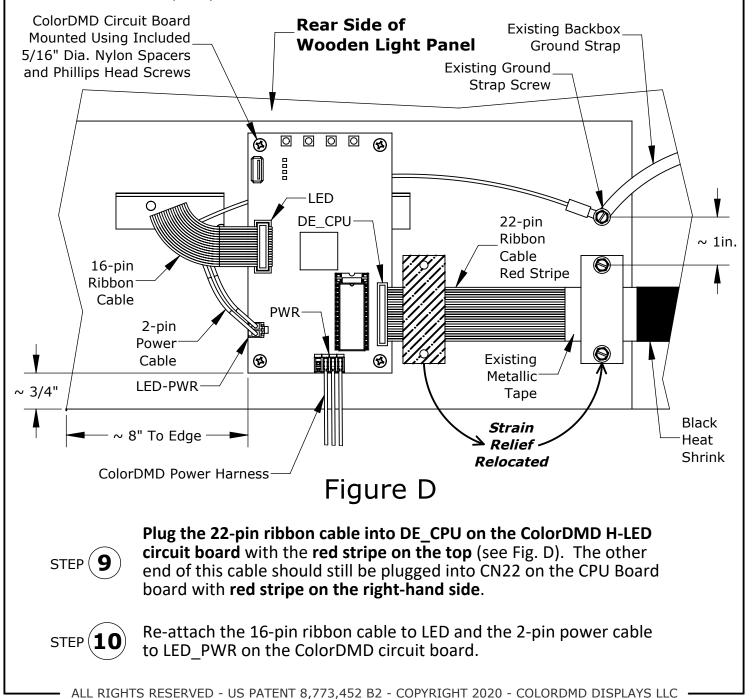
NOTE: Use a 5/64" drill bit to drill a very shallow starter hole for the six screws used in the following steps. A marker pen can be used to mark the holes prior to drilling.

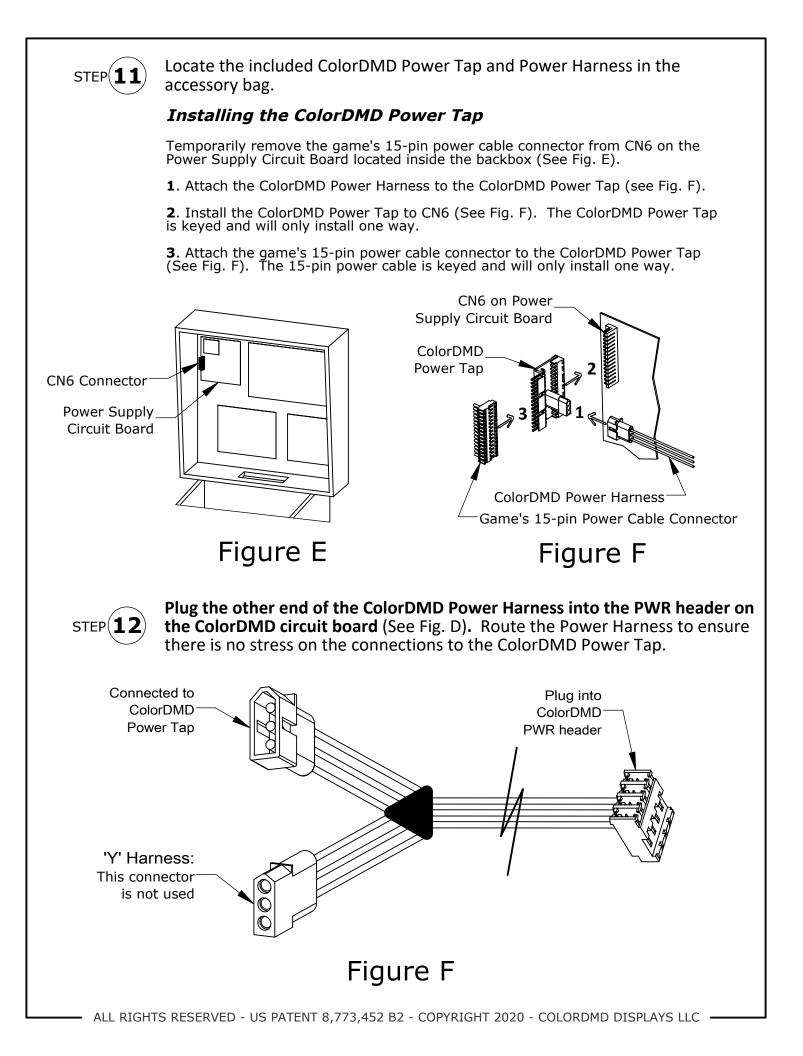
STEP 7

STEP (**8**

Remove the metal strain relief (See Fig. D) and relocate it 1" directly beneath the Existing Ground Strap Screw. Pull the slack on the 22-pin ribbon cable so the strain relief cinches down on the metallic tape portion of the cable.

Locate the four smaller 5/16" dia. Nylon spacers and the four phillips head screws in the accessory bag. Align ColorDMD circuit board with the 22-pin ribbon cable (See Fig. D) approximately 8" from the left edge of the wooden speaker panel. Using the smaller 5/16" dia. spacers underneath the ColorDMD circuit board, fasten it to the wooden speaker panel using the phillips screws.







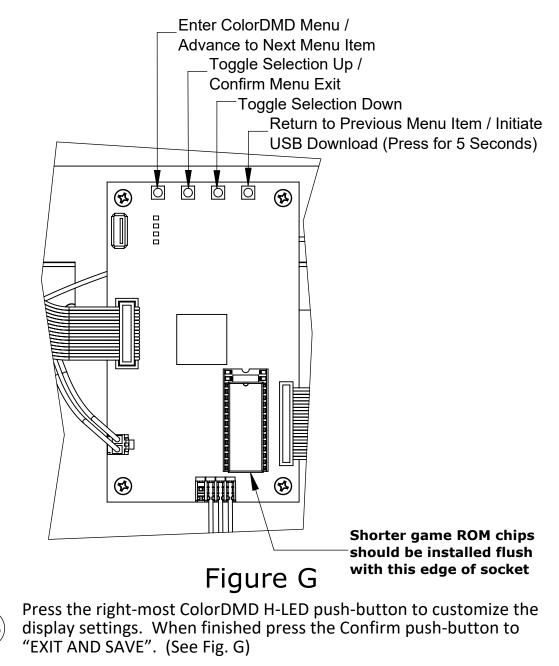
WARNING. **Electric Shock Hazard** - To protect against accidental electric shock, <u>**DO NOT**</u> operate the game without ensuring that the ColorDMD metal bracket is electrically grounded to game via the backbox ground strap.

Double check for proper alignment of **all** cable connections. Coil the excess and route the ColorDMD Power Harness along with other existing cables for a clean install.

STEP (13

STEP (**14**

While ensuring no wires get pinched, close and latch the light panel and then turn on the pinball machine.



For additional information regarding installing ColorDMD game specific color file using the USB port, please visit our website at *www.colordmd.com*.