



## ColorDMD X-LED Display Installation Instructions for 192X64 DMD Displays

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

Tools Required: • 5/16" Nut Driver



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

STEP **1**

Remove the original DMD from the pinball machine and save the original mounting hardware. Separate the Display Controller Board from the original assembly. These will be used to install the ColorDMD X-LED. The original flat metal shield will not be used.



**WARNING. Electric Shock Hazard** - To protect against accidental electric shock, **DO NOT** operate the game without ensuring that the ColorDMD X-LED metal bracket is electrically grounded.

STEP **2**

Using the original DMD's mounting hardware, install the ColorDMD X-LED with UP Arrows facing TOP edge of speaker panel (see Fig. A). Note: *Reattach original ground cables* to ColorDMD X-LED bracket at bare metal mounting screw holes located at corner mounting holes. Mount the original Display Controller Board (see Fig. A). Secure the assembly with original locknuts.

STEP **3**

Locate the included 3" ColorDMD X-LED power cable. Plug the end with two wires into the PWR header on the ColorDMD LED (see Figs. A and B). Double check to ensure proper alignment of the connector. Plug the other end of the ColorDMD X-LED Power Cable into the mating cable disconnected from the original DMD in Step 1 (see Fig. A).

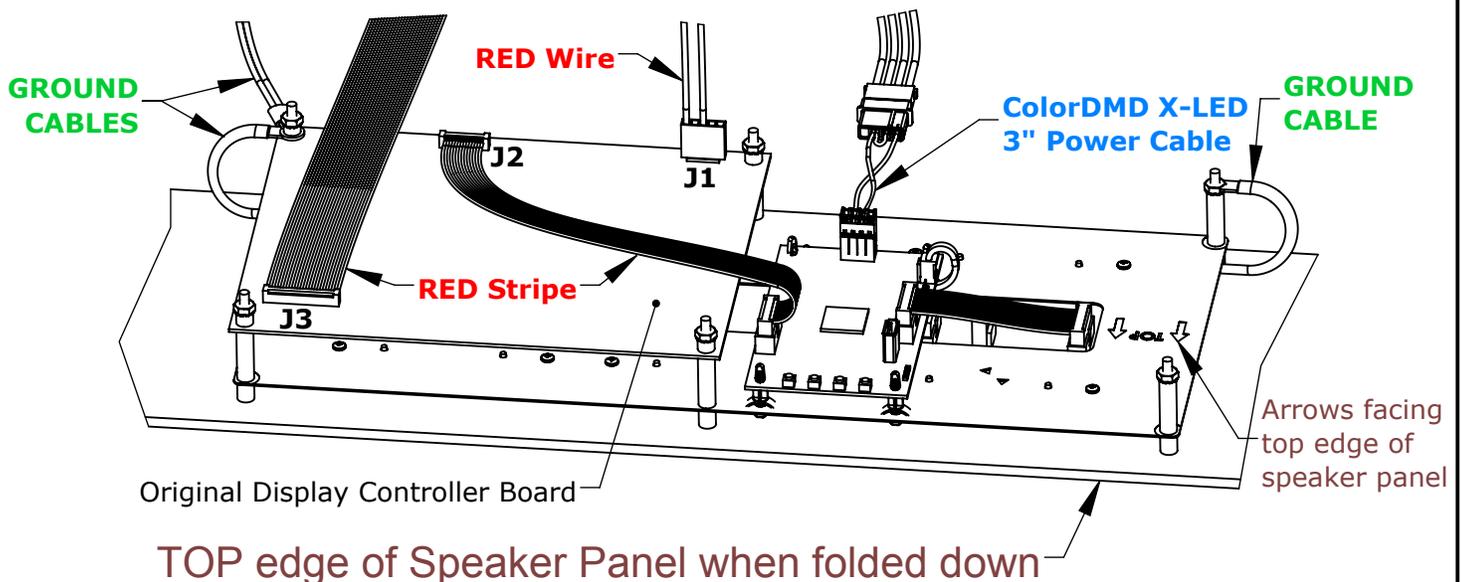


Figure A

STEP 4

Plug the original 11" 14-pin ribbon cable into DMD\_IN on the ColorDMD X-LED circuit board with the red stripe closest to the four buttons (see Fig. B). The other end of this cable should still be plugged into J2 on the original Display Controller Board with red stripe on the left-hand side (see Fig. A). Reconnect the game's 5-pin power cable to J1 on the original Display Controller Board with red wire on left-hand side (see Fig. A). Reconnect the game's 26-pin ribbon cable to J3 on the original Display Controller Board with red stripe on the right-hand side (see Fig. A).



*Double check for proper alignment of **all** cable connections.*

STEP 5

While ensuring no wires get pinched, raise the speaker panel and then turn on the pinball machine.

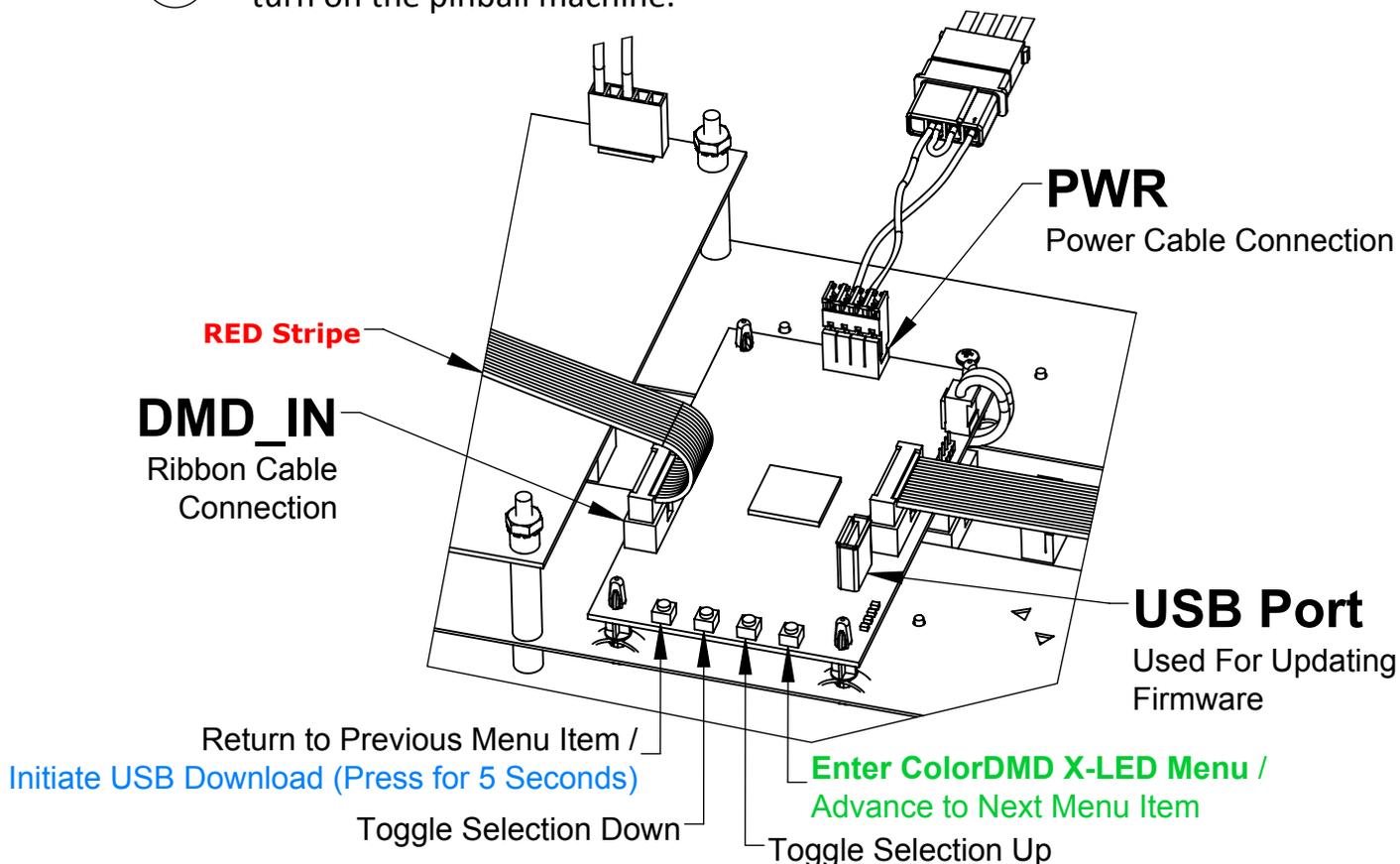


Figure B

STEP 6

Press the right-most ColorDMD X-LED push-button to customize the display settings. Press one of the Selection push-buttons when finished to "EXIT AND SAVE".

STEP 7

For games which support multicolor DMD graphics, visit [www.colordmd.com](http://www.colordmd.com) to download game specific rom file to a USB thumb drive. Power cycle the game and insert thumb drive into the USB port (see Fig. B). Press and hold left-most button on ColorDMD circuit board until PROG LED strobes solid. DONE LED will illuminate when update is complete. Enjoy!

For additional information regarding display settings please visit our website at [www.colordmd.com](http://www.colordmd.com).