

Installation Instructions for GiantDOTS™ replacement DMD

www.BostonPinballCompany.com

For Top Mount GiantDOTS Display

Revision: 1

Generic Notes:

- These instructions contain an overview of the installation, pictures shown are from different machines, but represent the overall install, your machine may be slightly different.
- Since we have not verified installation on every machine, if you encounter a problem not described in these instructions, please contact us at support@bostonpinballcompany.com, provide details and pictures if needed so we can resolve the problem. Or if you find something you think we should add to the instructions, just let us know.
- Never unplug any connectors in your machine with the power on. Also be aware that some machines have AC power wiring that can be exposed when removing covers or panels, if you are unsure, unplug your machine while performing maintenance.

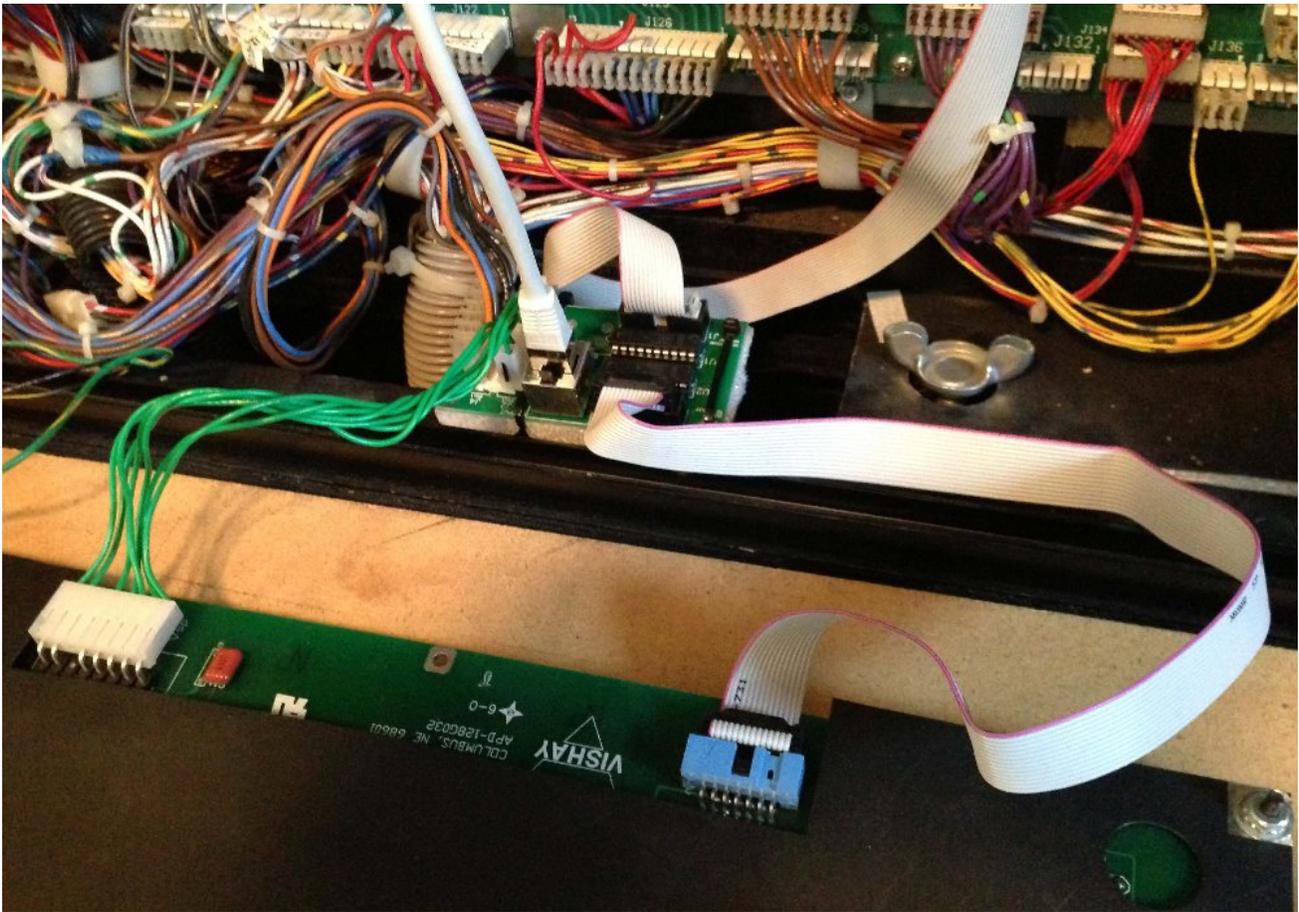
Tools Needed:

- Screw drivers, drill with (1/16") drill bit (optional)

Installation Instructions:

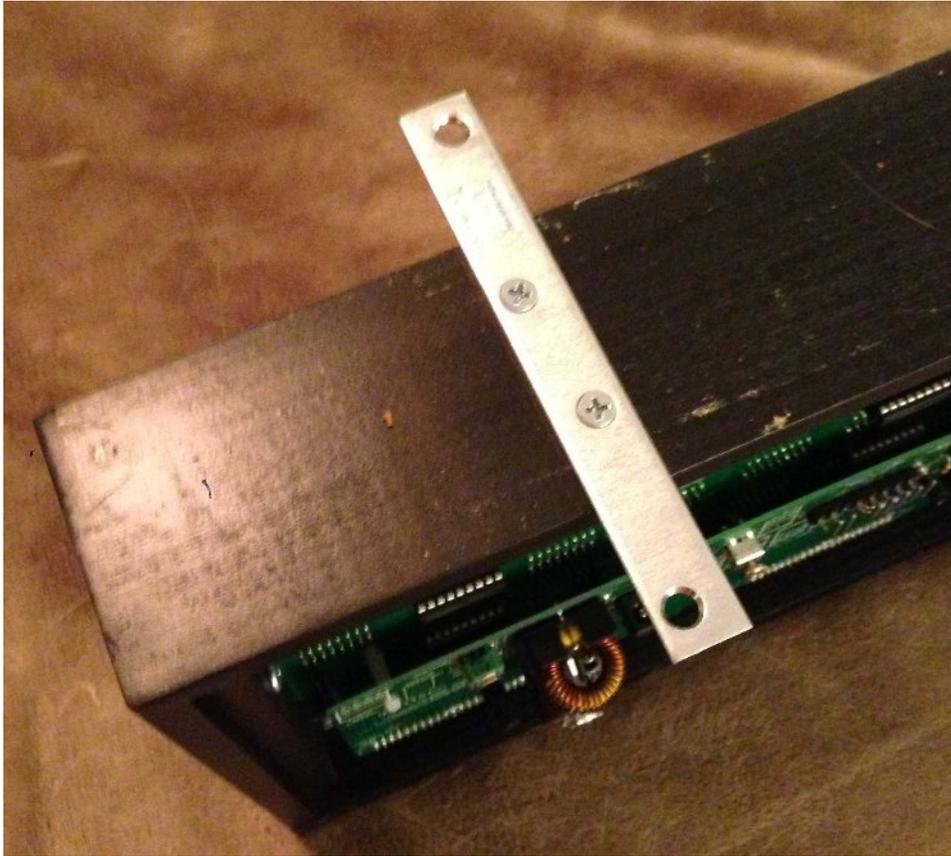
- Make sure machine power is off
- Remove the upper backglass
- Lift up and tilt back the DMD panel display, rest it at the top playfield. (use a piece of foam to prevent it from sliding)
- Disconnect the 2 connectors on the plasma DMD display
- Install the adapter circuit board, connect the 14 pin ribbon cable from the machine to the INPUT side of the circuit board (J1). Install the 8 pin power connector from the machine to one of the 8 pin connectors on the adapter circuit board, noting the position of the key on pin 3.
- Connect the 2 cable jumpers provided in the kit between the adapter circuit board and the existing plasma DMD display.
- Connect the 8 pin Ethernet cable to the output connector (J5) on adapter circuit board.

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- Position the adapter circuit board behind the display panel. (Generally there is not enough length in the cables to mount the adapter circuit board in a good location). So just check for any interference and let the adapter board sit on the bottom of the backbox.
- Mount the GiantDOTS display to the top of the backbox using the supplied brackets. Attach the brackets to the bottom of the display box using flathead screws about 4 inches from the edges, then position the GiantDOTS display on the top of the backbox. Screw the brackets to the top of the back box, using 4 screws. (drill a pilot hole if desired, only drill in about 1/2inch)
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- Now, swing open the backbox light panel. You will need to route the Ethernet cable outside of the backbox to the top mounted display. The easiest method we have found is to route the cable through the vent slots on the back of the cabinet. For vent slots that have grills over them, you can just lift one corner of the grill and pass the connector through it. Another method would be to drill a 1/2" hole somewhere in the back box. Yet another method would be to place a slot between the back box and the cabinet, this would require tilting the backbox down first. Choose the method that is best for your machine.

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- Plug the Ethernet cable into the GiantDOTS display. (J6 Connector in the middle of the board)
- Plug in the power supply into an AC outlet. Then attach the DC side to the GiantDOTS display.
- Power on the machine, the display will turn on. Adjust the brightness to your desired level.
- Now, watch the display for a few moments and check for any overlap on the bottom row of the LEDs. If any is noticed, first try adjusting the brightness a little higher, if it goes away, then the following scan adjustment is not needed, if there is still a overlap on the botton row, then adjust the scan below, otherwise ignore this section.
- Move jumper J17 to the S/A ON position, the dial is set to near end of the counterclockwise position. The display may go blank when the jumper is moved, if so start turning the screw clockwise about a ¼ turn at a time until the “jumping” stops. The pot is a 20 turn version and does not have end stop stops.
(Due to different display programs and timing schemes across the different manufactures, this adjustment may be necessary.)

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J17 Jumper

Scan Adjustment

- (Scan Adjustment Picture)
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- Re-install the backglass, and play some pinball with your new GiantDOTS display!

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Common Installation Problems

- Display does not come on:
 - Check for proper orientation of the 14 pin ribbon connector, verify pin 1
 - Note, these are not the most reliable connectors, be gentle when removing it, as they can be easily damaged.
 - Check for proper orientation of the 8 pin connector, verify key pin #3
 - Check that the outlet you used for the power supply is working.
 - Check to make sure the DC connector did not come loose when the display panel was installed.

- Not so Common Problems
 - Check that the power supply is working. Check it with a DVM. It should be putting out about 19VDC. If not E-mail us for a new one.
 - If the power supply seems to be working, plug it in to the display, then check with a DVM from “GROUND” to the back of J30 where it is plugged in. If the voltage is much less than 19VDC, then the power supply could be bad. E-mail us for a new one.
 - Check with a DVM from “GROUND” to one of the points marked VCC. This should read 5VDC, it comes from the machine. Verify that the 5V from the machine is good, maybe the fuse blew. Or the machine power supply may have an adjustment for the 5 Volts.