

# Installation Instructions for System 1 Replacement Displays

[www.BostonPinballCompany.com](http://www.BostonPinballCompany.com)

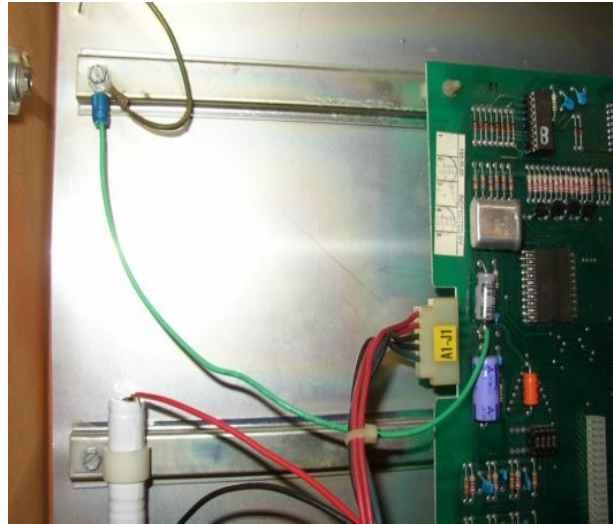
## Version 4

Please make sure your machine is in proper working order before installing this kit. Check out [www.marvin3m.com](http://www.marvin3m.com) for machine repair information. Check our web site [www.bostonpinballcompany.com](http://www.bostonpinballcompany.com) for information relating to existing display problems.

If you have any questions, please contact us before installing the display kit. E-mail: [info@bostonpinballcompany.com](mailto:info@bostonpinballcompany.com)

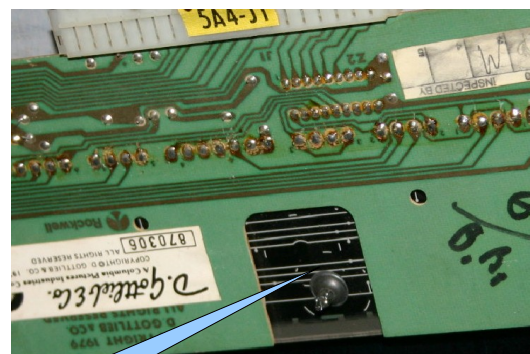
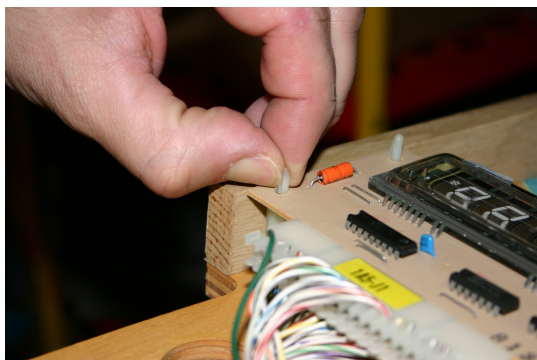
**WARNING: Never unplug any connectors inside your machine with the power on. Be sure the power is off.**

These are pictures showing ground wires added to power supply and control board. This is not part of this kit, but if your game is resetting during play or having other odd problems, these modifications may help. Check out [www.marvin3.com](http://www.marvin3.com) for additional information about this and other repair and service information of Gottlieb System 1 Pinball Machines.



## Full Instructions;

- Turn your machine off
- Open the display back box (requires key, normally located inside the cabinet to the left behind the coin door)
- Remove the connectors from the bottom of all the displays
- Remove all the displays (careful not to break the standoffs, use your fingers to squeeze the tabs)  
(also be careful of the nipple on the back of the fluorescent tube display as you remove them, they break easily)



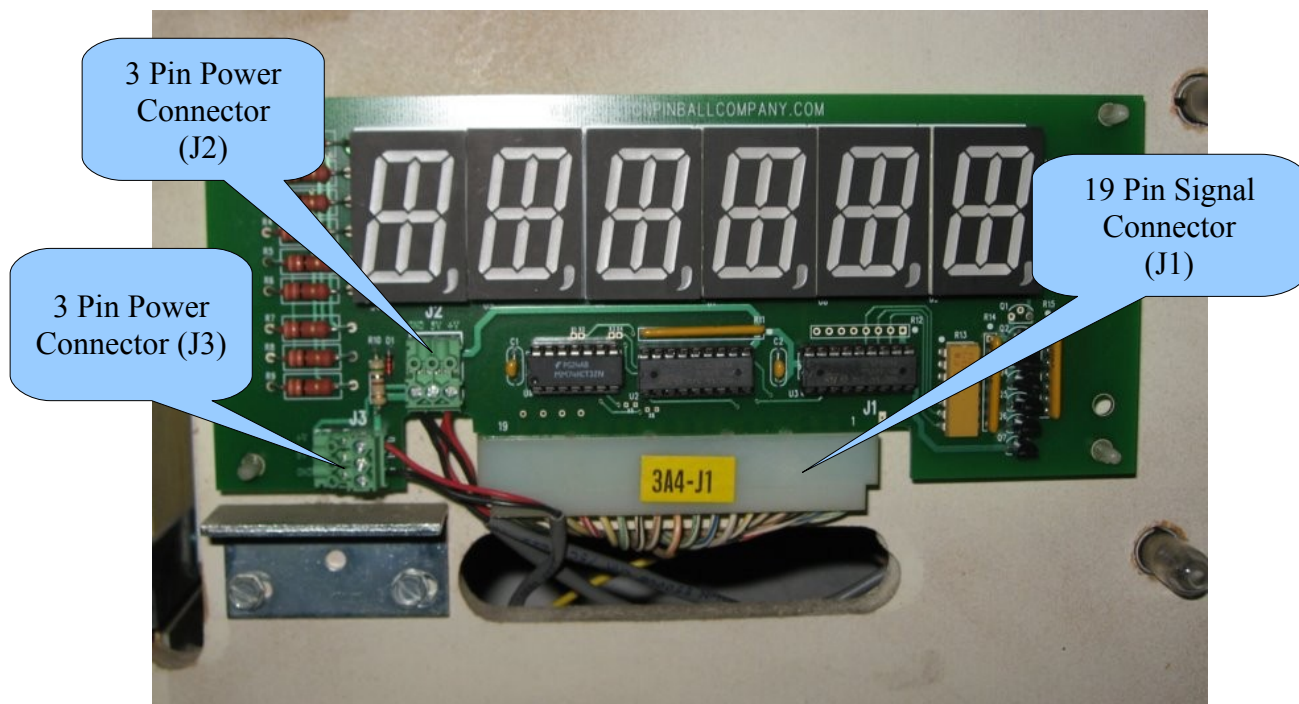
Glass Nipple

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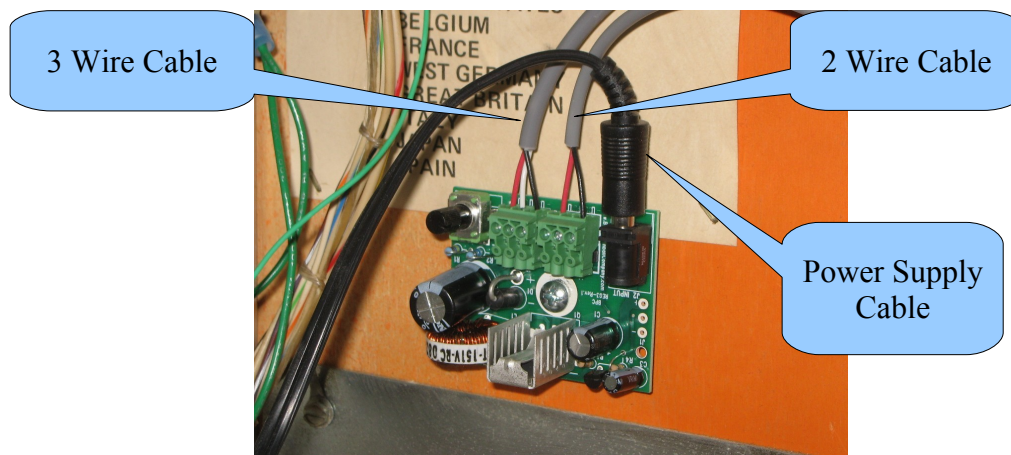
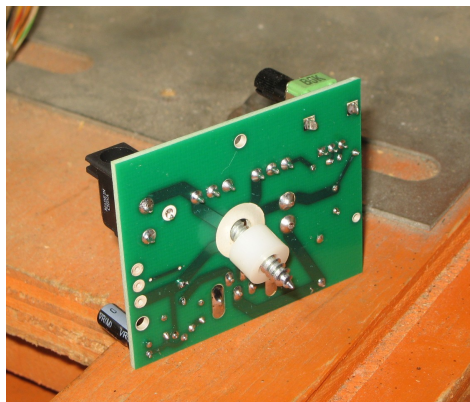
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- Install the new LED displays. Plug the 19 pin connector onto each display.



- Installing the Dimmer PCB
- Install the dimmer as shown in the picture, install the standoff between the dimmer PCB and the backbox.





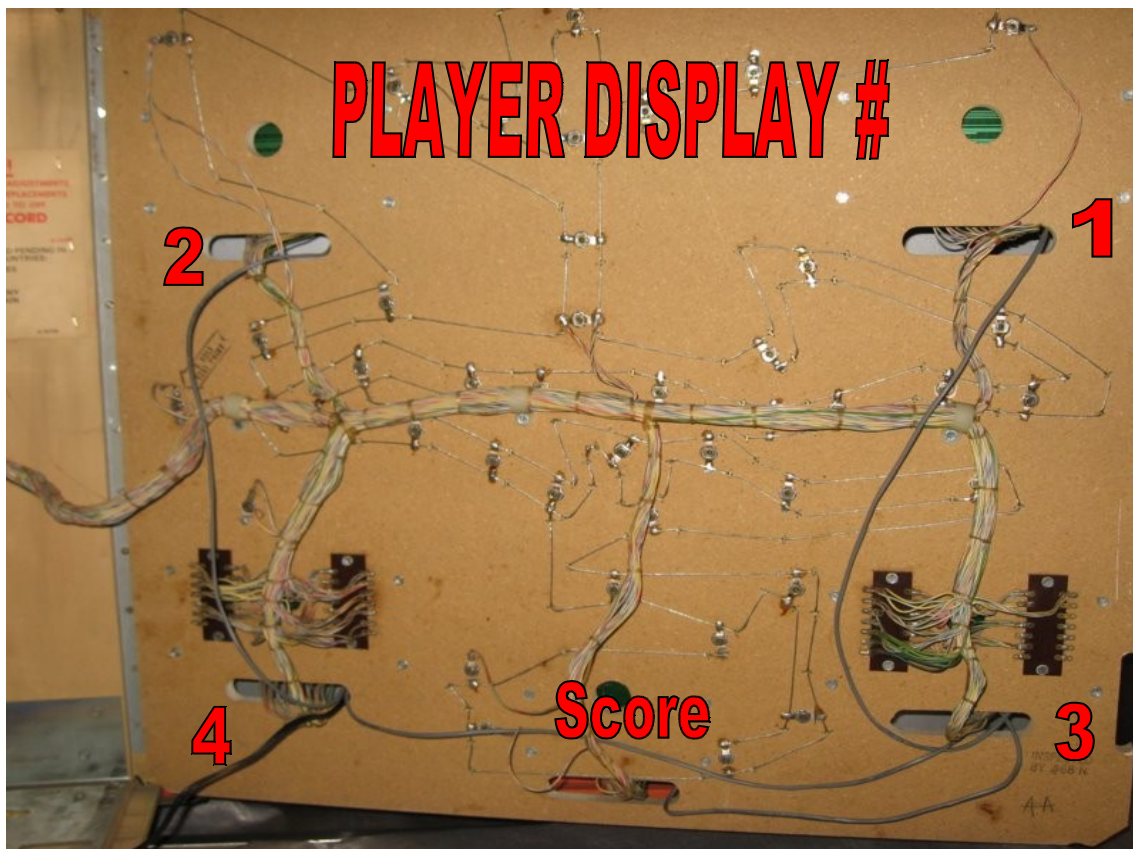
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- Install the cables to the displays; (also see diagram at the end of the instructions)
  1. Take the cable with the 4 connectors and run this to J2 on each 6-Digit display.
  2. Run the 18" cable from the dimmer PCB J4 to display #4 J3. (or the closest display).
  3. Run the 36" cable (3-wires, Black-White-Red) from the dimmer PCB J3 to the 4-Digit credit display.
  4. Take the Power Supply, and attach the connector to the dimmer PCB.
- Now place the PS down into the cabinet base through the hole with the rest of the wires.

Example of rear view of display backbox panel.



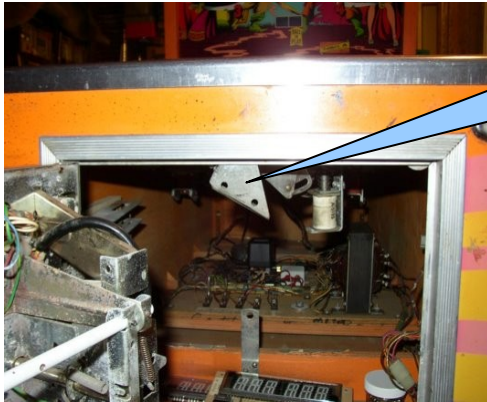
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**===Read the next few steps to decide which method you wish to use to plug in the power supply===**

- Close backbox.
- Remove playfield glass; Open the coin door, pull down on the lever holding the lock down bar. Remove the lock down bar. Now carefully slide the glass down and remove it. Place it gently against a wall and be careful not to bang the corners.
- Remove the ball from the playfield.



Lock down bar  
lever.



- Lift the playfield. Grab the playfield from the apron and lift. (Caution, if the apron is not properly screwed in or the screws are missing, you may bend the apron, so you may want to push the playfield from below as you lift it.) Once you can get your hands to grab the sides of the playfield, lift and pull it towards you, then lift it all the way up and prop it against the backbox or use the support rod to hold it in place. BE SURE IT IS SUPPORTED BEFORE YOU WORK INSIDE THE CABINET.

**WARNING SHOCK HAZARD; SOME OF THESE MACHINES HAVE EXPOSED WIRING, USE CAUTION OR UNPLUG YOUR MACHINE BEFORE COMPLETING THIS STEP. (YES, EVEN IF YOUR MACHINE IS OFF, THERE IS LIVE WIRING!)**

- Now plug the power supply into the service outlet in the cabinet.



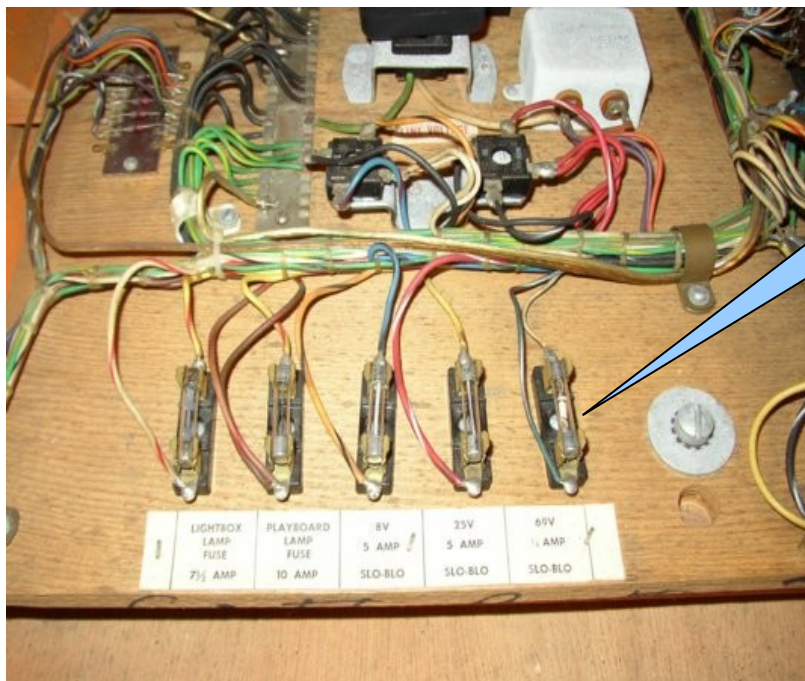
- **Note (An alternate to lifting the playfield. If you have a 3 or 4 foot long piece of wood, you can slide it into the cabinet, then you could place the power supply at the end, and just pull it forward, then reach in and plug the power supply into the service outlet.**

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- Remove the Fuse marked 69V 1/4 AMP. This voltage was for the old fluorescent displays and is no longer needed.



- Carefully lower the playfield, reinstall the glass and lock down bar.
- Power up your machine.
- Open the backbox and adjust the dimmer for the desired brightness.
- Close the backbox and play a game of pinball with your new Boston Pinball Company LED Displays.

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## Cable Connection Diagram System 1

