



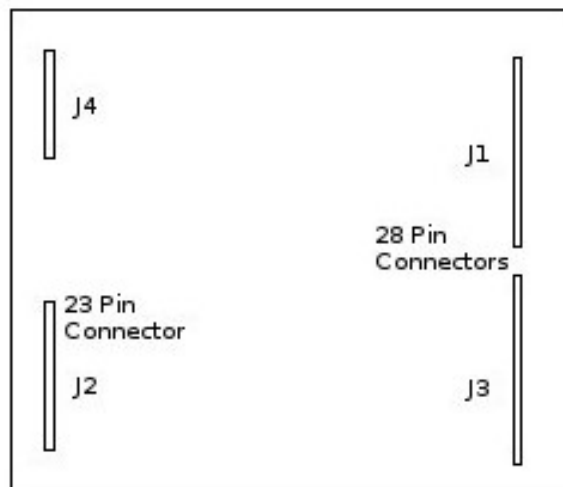
Pinball LEDS by DRAPL

MB-07-011 Classic Bally / Stern LED adapter boards.

Thank you for purchasing this set of LED adapters for your classic Bally or Stern machine. These offer an easy to install solution to LED flicker with original Bally or Stern lamp driver boards. No soldering is required, and these adapters make no permanent modification to your circuit boards.

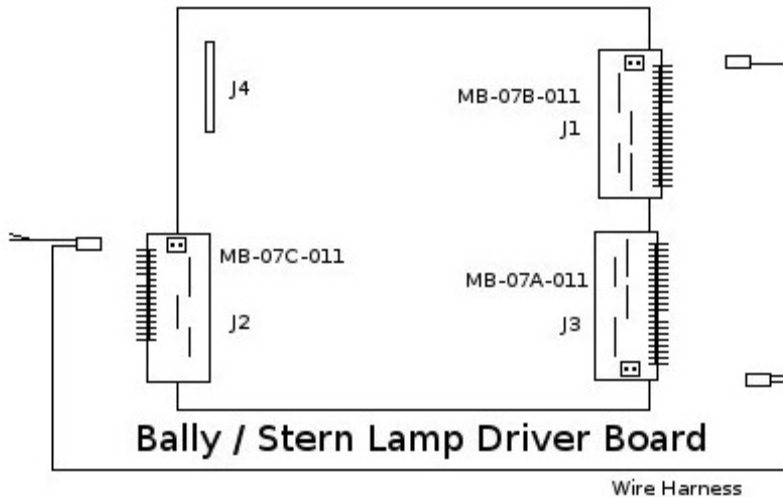
These adapters are compatible with nearly any generation of classic Bally or Stern using the AS-2518-17, AS-2518-35, M-100, or M-200 CPU board set and a dedicated lamp driver board. It has not been tested with Granny and the Gators, Baby Pac-Man, Goldball, or Grand Slam. Note that LED adapters are not needed for auxiliary lamp boards AS-4518-43 or AS-4518-52.

1. On your existing lamp driver board, inside your backbox, remove the wiring harness from connector locations J1, J2, and J3. Do not remove the wiring from connector J4.



Bally / Stern Lamp Driver Board

2. At connector J1, install the 28 pin adapter board labeled 'MB-07B-011'
3. At connector J3, install the 28 pin adapter board labeled 'MB-07A-011'
4. At connector J2, install the 23 pin adapter board labeled 'MB-07C-011'
5. Connect the wire harness to the 2 pin power connectors as shown below. (The 2-pin power connectors do not have polarity, either direction is ok.)



6. This part is critical, so please follow along precisely. You need to attach the alligator clip of the wiring harness to the common power wire supplying voltage to the controlled lamps in your backbox. The controlled lamps are those for your tilt, game over, player 1, and such. Each of the controlled lamps in your backbox will have a small striped wire that only connects to a single lamp, and a single braided 'common' wire that runs to all controlled lamps on the backbox lamp board. This 'common' wire is where you want to attach the alligator clip, as close to the hinged side as possible. Use caution not to connect onto your GI lamp wiring, which has two braided wires, each of which connects to multiple lamps.

7. Your install of the LED adapters is now complete, and you can proceed to install and enjoy LED lamps to your content in the controlled lamp locations. However they will not resolve issues with old and faulty components such as bad sockets, connectors, or circuit board SCR's.

Occasional flickering seen in an LED after install of these adapters is usually the result of a marginal, or incorrect, SCR installed on your lamp driver board.

Pinball LEDs By DRAPL:

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Made in CANADA with lead free / RoHS compliant parts and materials.