

SERVICE BULLETIN #2

Add 12V switching power supply to increase 12V current avail for monitor



THIS IS SPINAL TAP PINBALL (TAP)

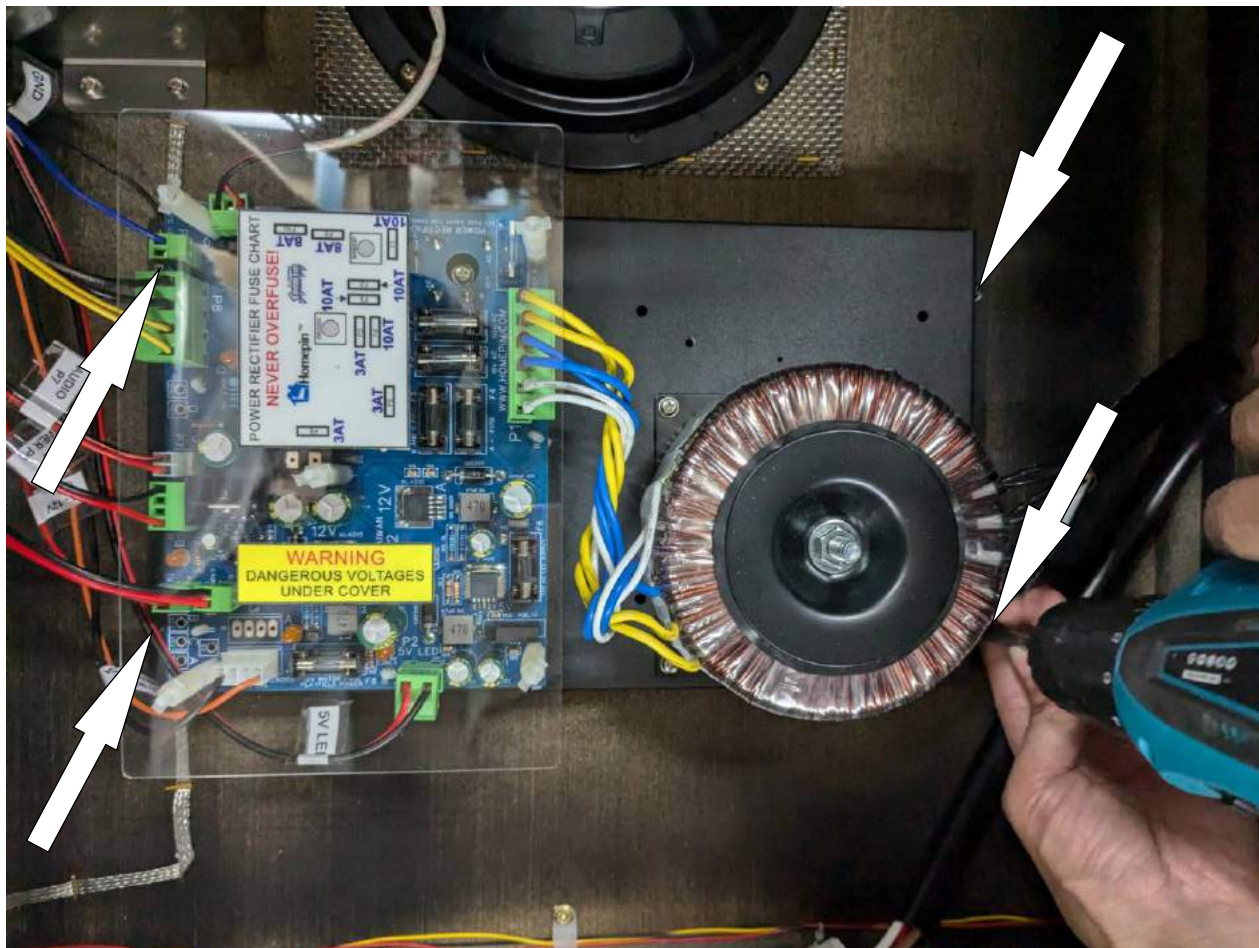
- ➡ Symptoms: At times the monitor seems to turn negative or displays a reset window
Also, pod up post operates correctly at boot but won't pull down during game play.
- ➡ Action: Install additional 12V 8.5A switching supply
- ➡ Affected Machines: All 3 flipper versions. Earlier builds used a different monitor board set.

STEP ONE:

It is much easier to perform this work with the power supply assembly removed from the game.

Ensure machine is turned OFF and unplugged from the mains power.

Remove the four securing screws holding the power TX module and unplug all connectors from the regulator PCB as well as the voltage change plug from the power switch box.

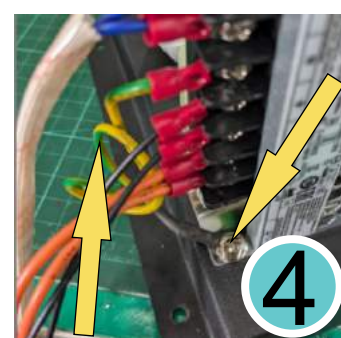
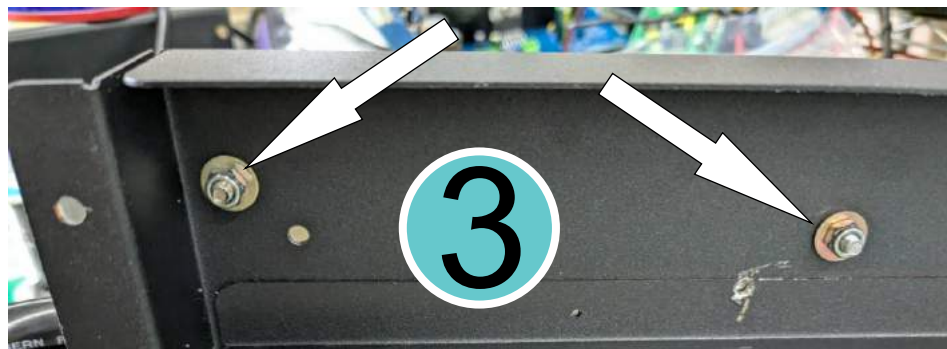
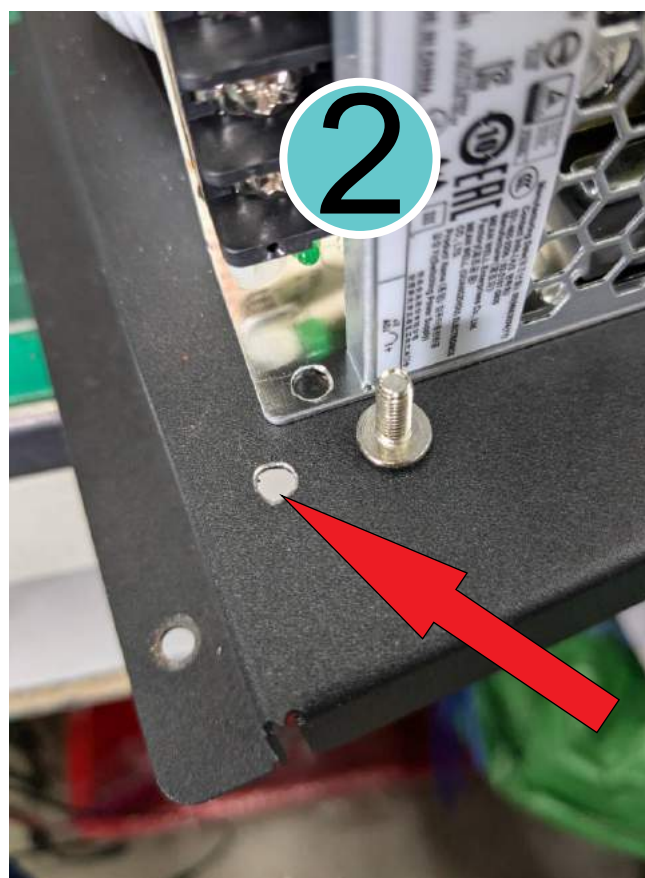
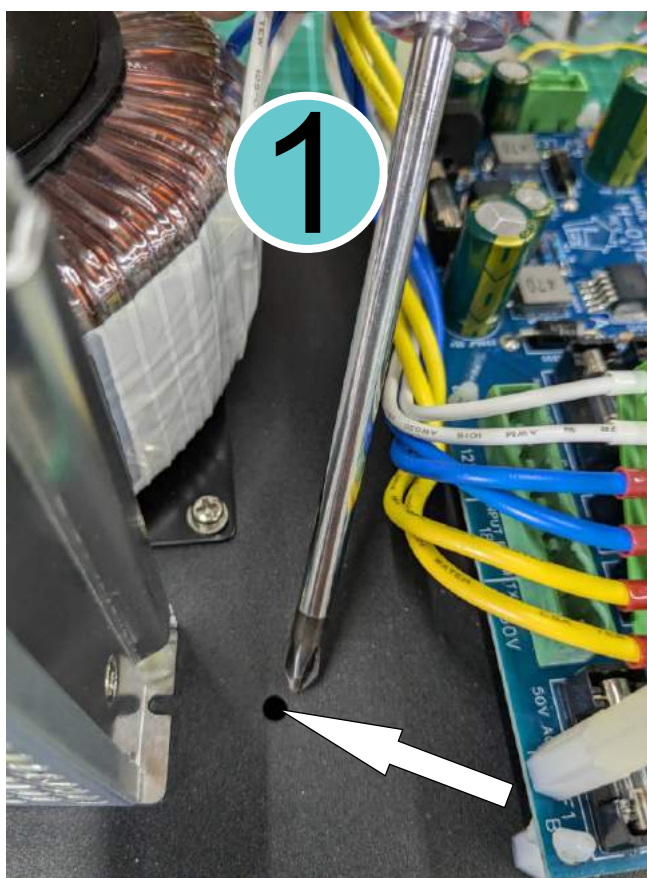


STEP TWO:

Observe the existing 4mm hole on the transformer chassis shown below in pic 1.
We will use this as one mounting hole for the additional supply.

Put the power supply in position and drill an additional 4mm hole shown in pic 2.
Bolt the supply in place using the 2 x 4mm nuts/bolts/washers supplied (pic 3).

**MAKE SURE TO ALSO BOLT THE EARTH WIRE UNDER THE SCREW
GOING INTO THE NEW HOLE YOU DRILLED (pic 4).**



STEP THREE:

You will now have the supply mounted as in pic1 below.

Now we need to use the draw wire (supplied) to pull the two new mains wires from the new supply through the existing insulating tubing. (pic 2)

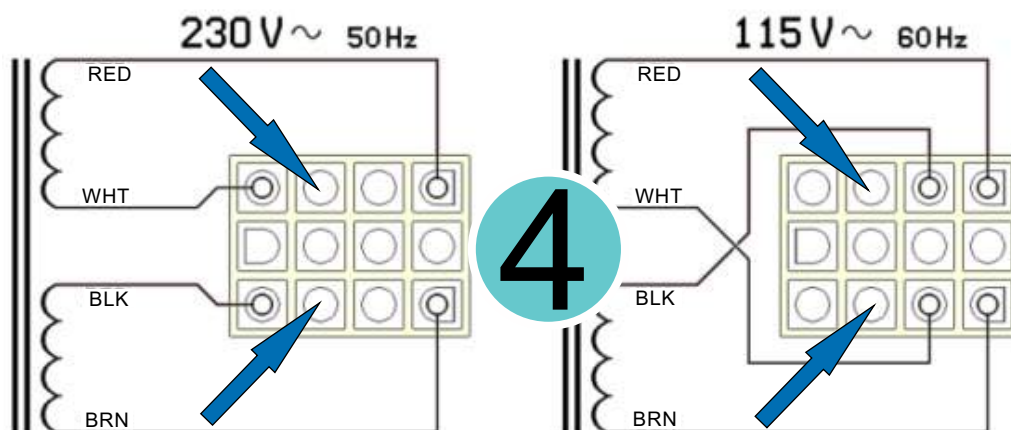
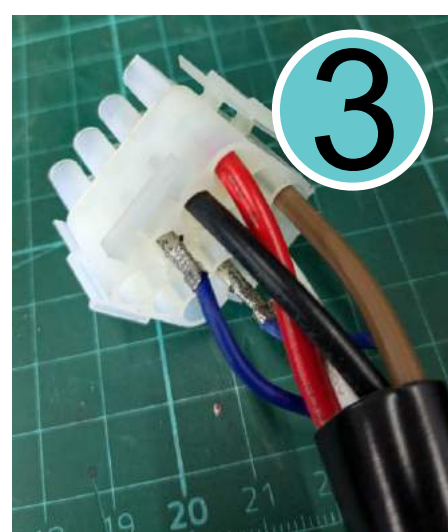
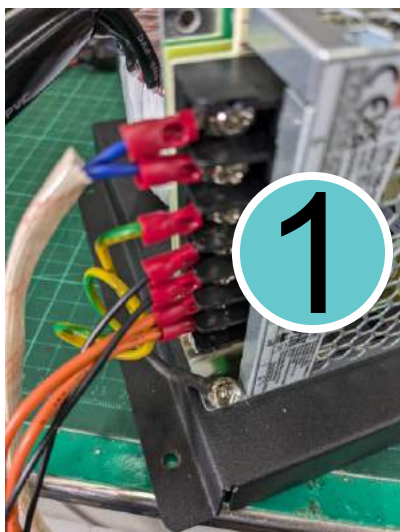
There is enough space but you will need to straighten the tube and wiggle it as required to feed the wires through.

DO NOT use excessive force to pull the wires through as you might damage the wire.

It is necessary to thread the two blue wires through the tubing so the machine still complies with the CE testing done on the machine.

When the wires are through, push the pins into the housing as shown FULLY. (pics 3 & 4)

NOTE: The two pins (new blue wires) go into the block connector in the same position regardless of the mains voltage setting of the machine 115 or 230V.

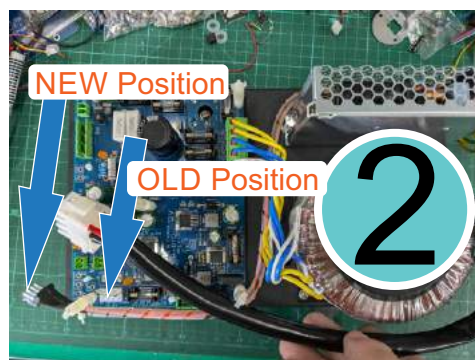
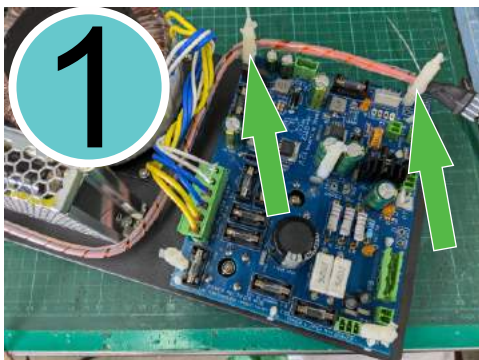


View of block connector plug from the transformer wires side

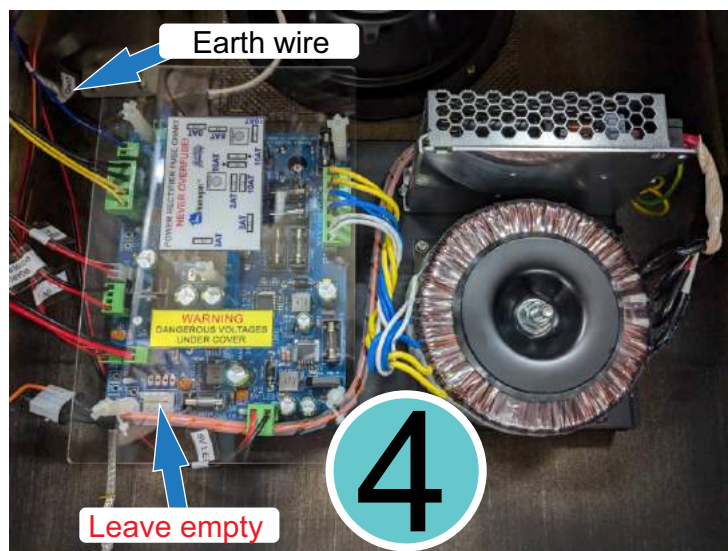
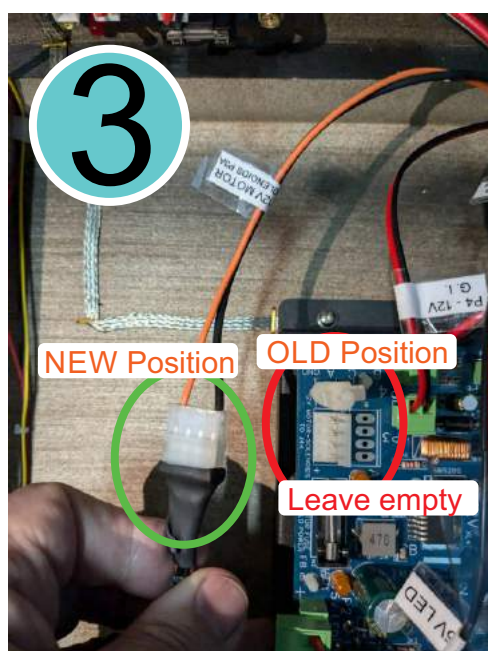
STEP FOUR:

Dress the new leads as shown below (pic 1) and use cable ties to secure the new cable to the cover mounting posts.

Re-install the chassis to the cabinet making sure the earth wire is under the left side rear screw (pic 4).



Refit the wiring harness plugs back to the correct places on the rectifier board BUT the 4P connector marked “12V MOTOR/SOLENOIDS P3A” now plugs into the new cable coming from the power supply you just installed (pics 2 & 3) and NOT onto the PCB as it was originally.



Pics 3 & 4 show things plugged in as they should be after your work.

Ensure the plastic cover is in place over the power rectifier board as shown.

The upgrade is now complete! Congratulations!

