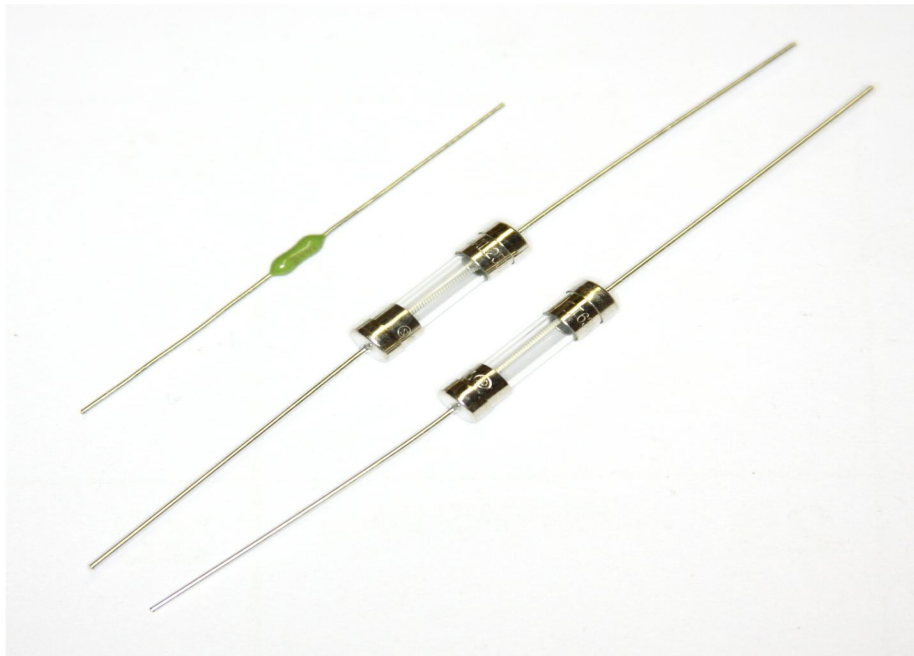


Over Current Protection Kit for the Wells Gardner K6100/K6400

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Although this upgrade has been tested and the techniques used will not directly cause harm to your game. If you do something wrong, you can very seriously damage the electronics! So...



...Please read the instructions.

To perform this upgrade you should:

- Have a working understanding of electronics.
- Be familiar with safe handling procedures for electronic components.
- Have basic [soldering](#) and electronic assembly skills.
- Be able to follow directions.

Anytime you start messing around with something (particularly something electronic) you accept a certain amount of risk that you may break something. This kit carries with it no guaranty of compatibility to your particular game. If you carefully follow these instructions, you'll do fine and everything will work. If this looks like it's above your confidence level please recruit someone to install the kit for you!

Introduction

Congratulations! You now have the kit which should protect the Flyback and step down transformer in the high voltage cage. The fuses will prevent a short from destroying parts which cannot be repaired.

Finally before you get started, grab your favorite beverage, maybe something to snack on, and find a quiet place to read this manual so you fully understand what to do before you start tinkering around with your precious labor of love!

Necessary Parts and Tools:

You will need the following parts/tools for this upgrade...

- Screwdriver/nut driver
- Soldering iron & de-soldering iron/pump or solder wick and rosin flux solder
- [Flush cutter](#)

Step One: Unplug the game from its power source and [discharge the monitor!](#)



While installing this kit, electric shock is possible if power is present!

Step Two: Remove the high voltage cage...

This is an easy one; pictured below is the high voltage cage.



Step Three: Installing components...

Unsolder and lift one leg of the following resistors from the HV PCB:

- R901
- R907
- R917

3-A: Solder one leg of one of the provided slow-blow fuses into the vacated hole of R901.

3-B: Solder the other leg of the slow-blow fuse to the raised leg of R901, "Tee-Pee" style.

3-C: Solder one leg of the remaining slow-blow fuse into the vacated hole of R907.

3-D: Solder the other leg of the slow-blow fuse to the raised leg of R907, "Tee-Pee" style.



Figure 1: R901 and R907 in "Tee-Pee" configuration.

3-E: Solder one leg of the green fuse into the vacated hole of R917.

3-F: Solder the other leg of the green fuse to the raised leg of R917, "Tee-Pee" style.

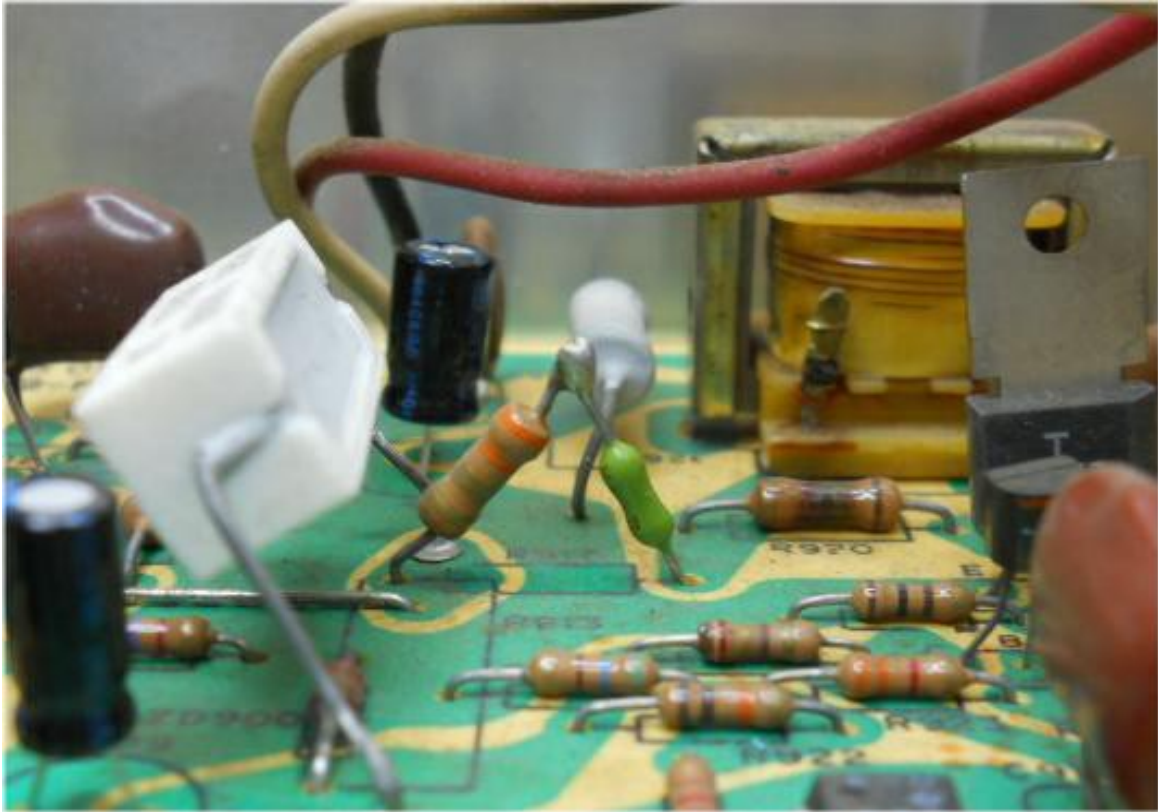


Figure 2: R917 in "Tee-Pee" Configuration

When the parts are removed, your board should look like this:

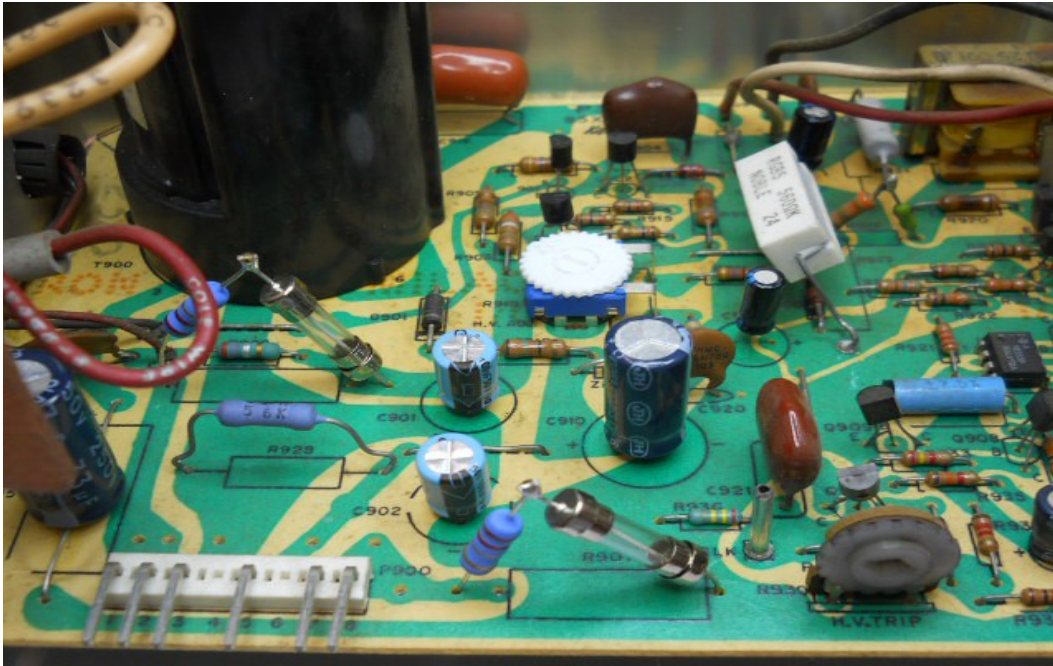


Figure 3: All parts installed.

Other items of interest...

You should consider installing these parts along with this kit:

- [Wells Gardner K6100/K6400 - Rebuild kit](#)
- [Wells Gardner K6100/K6400 - LV-2K Low Voltage Power Supply Retrofit](#)
- [Wells Gardner K6100/K6400 - Extra Parts Kit](#)
- [Atari Audio Regulator Rebuild Kit](#) (Atari games)
- [Big Blue transformer Capacitor](#) (Atari games)

Final Notes:

This kit carries with it no guaranty of compatibility to your particular game. Although this kit has been tested with numerous games, there is a possibility that some of them are different. This enhancement will help protect the HV Cage, but problems can and will still occur. The intent here is to attempt to limit the damage, when a problem does occur. This kit carries no liability protection for you game, while there is no reason this kit should cause damage to your game, it is possible that incorrect or poor wiring can damage your game board(s). Liability is limited to repair/replacement of the Kit only.

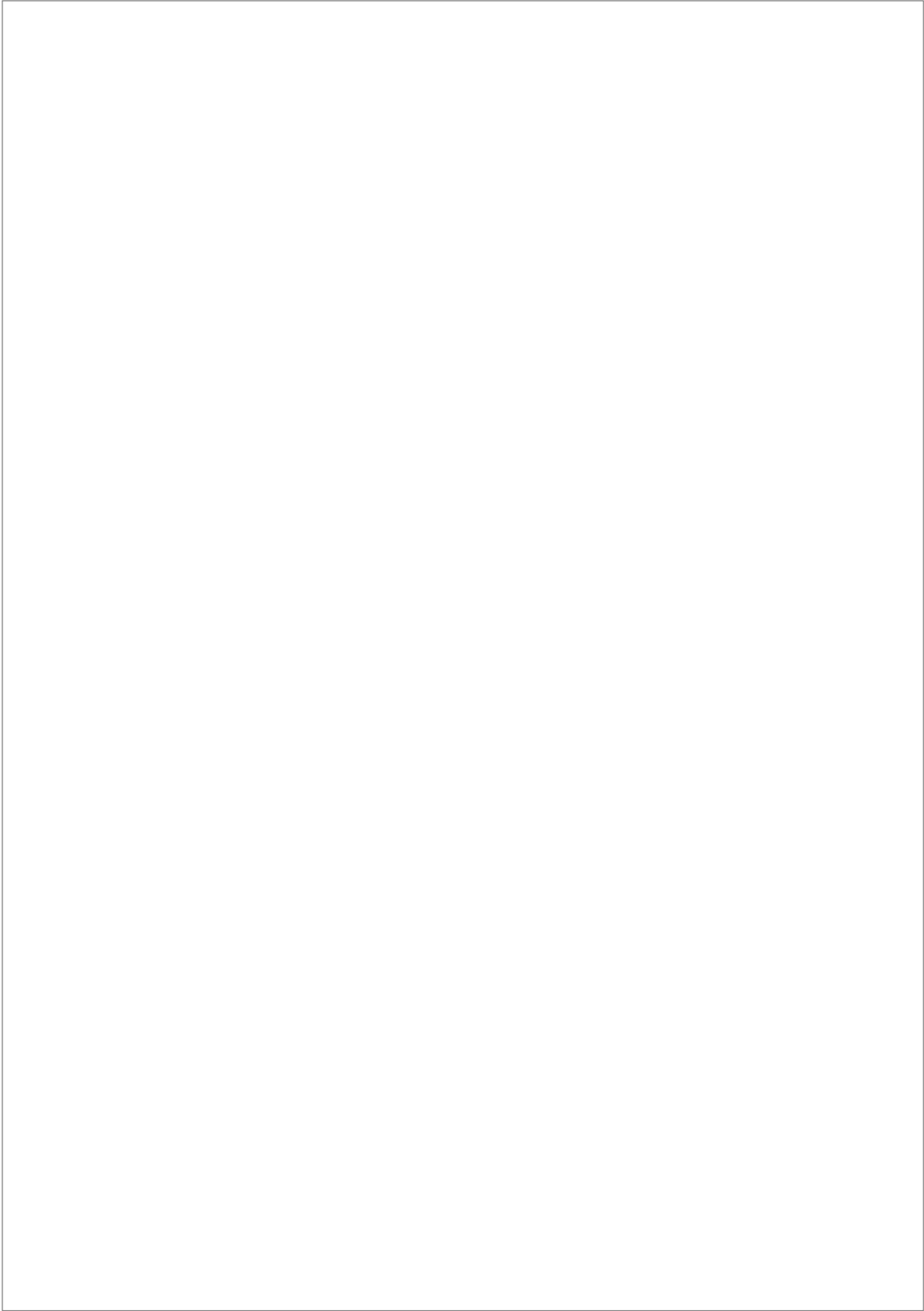


Figure 4: Wells Gardner K6100 High Voltage Unit Schematic