

Wells-Gardner U2000/U5000 Power Supply Upgrade Kit  
Service Kit # S04E0000-000F

## INSTALLATION INSTRUCTIONS

This kit includes the following items:

<u>Part Number</u>	<u>Description</u>	<u>Board Location</u>
086X0334-001	MOSFET transistor, 6N60	Q101
001X0772-001	SIL-PAD for above	Q101
016X0208-001	Fuse, 3 amp, fast blow	F101
066X0126-007	Diode, MUR490 or MUR480E	D107
420X5479-323	Resistor, 0.47 ohm, 2 watt	R108
069X2733-100	Installation instructions for this kit	-----

**WARNING: DISCONNECT THE AC POWER TO THE MONITOR BEFORE DOING THE FOLLOWING REWORK!**

### **MOSFET Q101 Replacement**

1. To replace the MOSFET (Q101), unscrew the fastening screw while holding the KEPS nut on the back of the heat sink. Also remove the mounting clip.
2. Unsolder Q101 from the bottom of the board. Remove and discard this MOSFET and the gray SIL-PAD that was between Q101 and the heat sink.
3. Take the replacement MOSFET from this kit and insert it's leads into the same holes in the board from which the original MOSFET was removed. DO NOT SOLDER THE LEADS AT THIS POINT.
4. Position the new SIL-PAD between the MOSFET and the heat sink. Place the mounting clip over the front of the MOSFET such that the holes in the mounting clip, MOSFET, SIL-PAD, and heat sink are all aligned with each other. Insert the mounting screw through the holes while holding the KEPS nut on the back side of the heat sink. Tighten the screw.
5. Solder the MOSFET leads on the bottom of the board.

### **Diode D107 Replacement**

6. Locate diode D107 beneath the large white resistor R104 in one corner of the board. NOTE WHICH END OF D107 HAS THE SILVER BAND. Replace D107 by unsoldering it's leads from the board. Install the replacement diode in the same location such that the end with the silver band is oriented the same as that of the original diode. Solder the leads of the replacement diode to the bottom of the board and cut off any excess leads.

### **Resistor R108 Replacement**

7. Locate R108 behind the heat sink on which Q101 is mounted. NOTE THE DISTANCE THE RESISTOR IS MOUNTED ABOVE THE BOARD. Unsolder it from the board. Insert the replacement resistor (blue body with yellow, violet, silver, and gold colored bands) in the same location. Insert the leads of the replacement far enough such that the replacement is the same distance above the board as the original resistor. Solder the leads

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to the bottom of the board and cut off the excess.

**Fuse F101 Replacement**

8. F101 needs to be replaced only if the original one is blown. If so, carefully pry the blown fuse out of the fuse holder and discard. Snap the new fuse into the holder.

The upgrade is now complete.