

SUPERSEDES:

None

HP PART NUMBER 08690-60053**HIGH VOLTAGE POWER SUPPLY BOARD ASSEMBLY
FOR
HP MODEL 8690A/B SWEEP OSCILLATORS****Serials Prefix 1050A and Below****IMPROVED TIME DELAY CIRCUIT**

An improved High Voltage Power Supply board assembly (HP part number 08690-60053) is the recommended replacement for the A8 assembly, and should be used whenever the A8 assembly is replaced. The Turn-On Time Delay Circuit on this board has been changed to improve the reliability of A8Q1 transistor.

The installation of the improved board assembly 08690-60053 in a 8690A/B serial prefix 1050A and below requires a wiring change to K2 time delay relay.

WIRING CHANGE PROCEDURE

K2 is located at the bottom of the instrument between the A12 and A14 board assemblies. It is a 3 pole, double-throw relay. The wires to be changed are the white-red-blue wire connected to one of the contacts and the brown wire connected to the coil.

1. Remove the brown wire from the coil and the white-red-blue wire from the contact.
2. Solder the white-red-blue wire to the coil, where the brown wire was previously connected.
3. Solder the brown wire to the contact where the white-red-blue wire was previously connected.

4. Make the following changes to the table of replaceable parts in your Operating and Service Manual:

Change A8 Assy to HP Part No. 08690-60053.
Add A8Q2

1884-0073 THYRISTOR, SCR.

Add Resistor A8R15

0757-1000 R: FXD MET FLM 51.1 OHM
1% 1/2W.

Add Resistor A8R16

0757-0422 R: FXD 909 OHM 1% 1/8W.

Change Capacitor A8C6 to HP Part No.
0180-2268 C: FXD 140 UF 30 WVDC.

Change A8Q1 to 1855-0010 UNIJUNCTION:
SILICON.

Change Resistor A8R13 to HP Part No.
0747-0868 R: FXD 562K OHM 1% 1/2W.

Change Resistor A8R14 to 0698-3444 R:
FXD MET FLM 316 OHM 1% 1/8W.

Replace the A8 Assembly Component Identification in your Operating and Service Manual with the Component Identification in this Service Note.

Change your Turn-on Time Delay Circuit Schematic as shown in the Schematic diagram in this Service Note.

JA/mh/WO

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HEWLETT  PACKARD

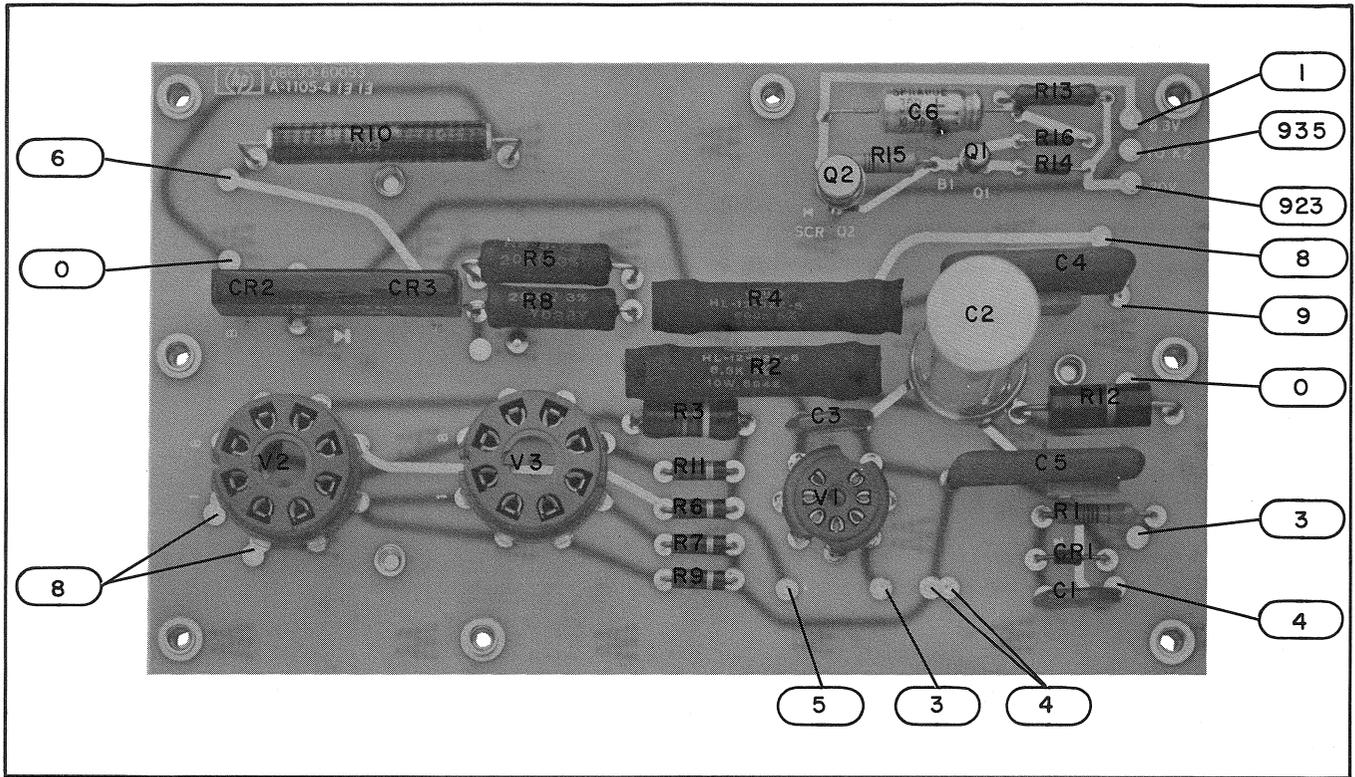


Figure 1. Component Identification, A8 Assembly

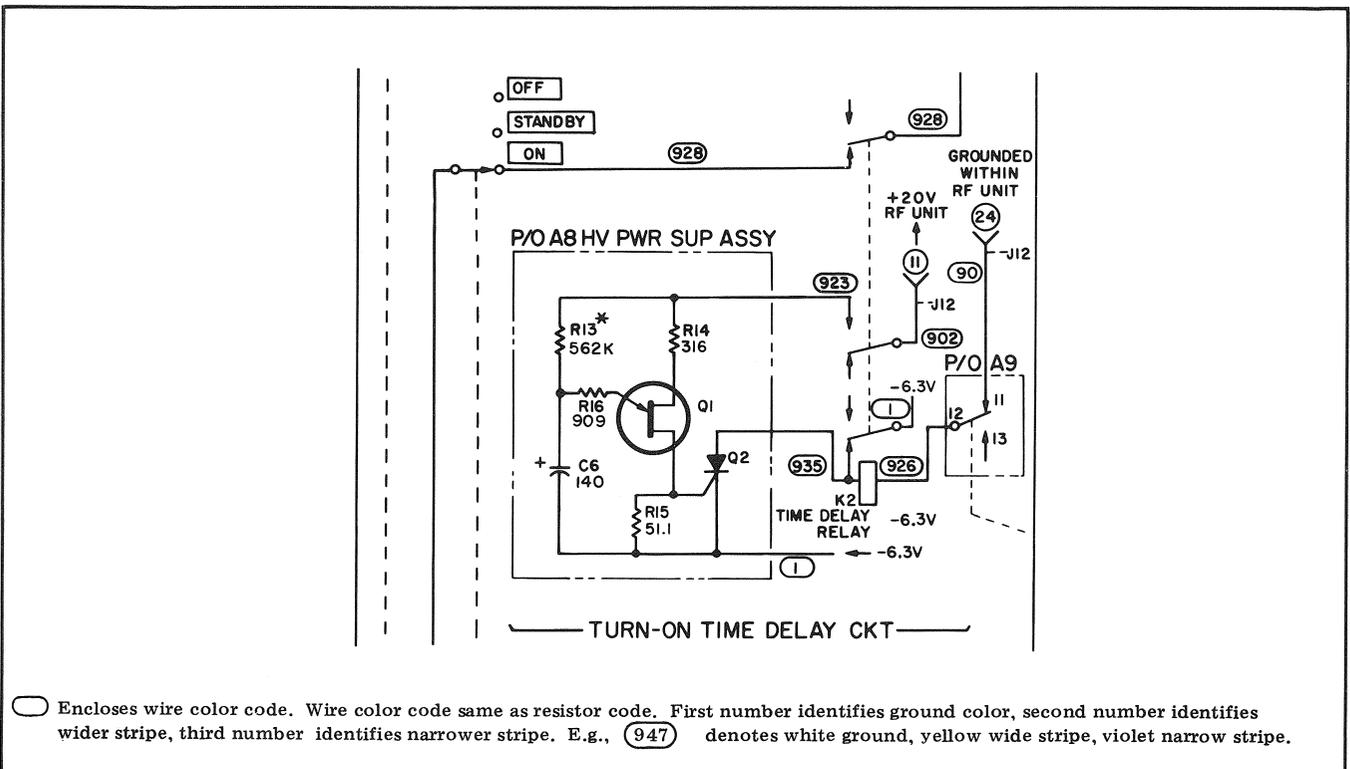


Figure 2. Turn-On Time Delay Circuit