

-hp- Model H12-175A Oscilloscope  
Serial No. 633-06036 and Below

Thermal Switch Assembly Modification Kit  
hp Stock No. 175A-95F

The standard automatically resetting thermal overload switch may be replaced by Thermal Switch Assembly Modification Kit, Stock No. 175A-95F, which employs a thermal switch which must be manually reset following power cutoff due to thermal overload of the Oscilloscope.

This modification may be performed with only a slot screw driver, diagonal cutting pliers, and a soldering iron.

After completing the installation an operating check of your oscilloscope should be made, but calibration or adjustment is not required.

Material Furnished in -hp- 175A-95F Kit

<u>Qty</u>	<u>Description</u>	<u>hp Stock No.</u>
1	Switch, Thermal	0440-0062
1	Plate, Insulation	175A-41D
2	Screw, 6-32 x 1-1/16"	2360-0014
2	Lockwasher, No. 6 split lock	2190-0046

MODIFICATION PROCEDURE

1. Remove the two 1-1/16" screws, stock no. 2360-0014, which fasten the Insulator Plate, stock no. 175A-41A, to the thermal switch bracket. Discard the insulator plate and mounting screws and the two 3/4" spacers. (The replacement insulator plates have spacers factory mounted.)

2. Find the gray shielded cable that terminates at the thermal switch assembly and cut the black and white wires close to the terminals to which they are soldered.

1/68-8



3. Remove the thermal switch, neon lamp, 18K ohm resistor and terminal strip by lifting them out of the mounting bracket.
4. Place the new thermal switch, Stock No. 0440-0062 into the hole provided in the thermal switch bracket. Align its mounting holes with those in the thermal switch mounting bracket and with terminal No. 1 forward.
5. Strip 1/4" of insulation from the ends of the two wires out from the old thermal switch and connect the white wire to terminal No. 1 and the black wire to the other terminal of the new thermal switch by soldering.
6. Place a lockwasher, Stock No. 2190-0046 on each of the two thermal switch mounting screws, Stock No. 2360-0014, and pass the screws through the mounting holes of the Insulator Plate, Stock No. 175A-41D and then through the mounting holes of the thermal switch and fasten this assembly to the thermal switch mounting bracket.
7. The 2.3 ohm, 45 watt resistor mounted under the thermal switch must be spaced between 1/16" and 1/8" below the thermal switch. Carefully make this adjustment as greater than 1/8" separation may result in failure of the thermal switch to function; but, if the resistor makes contact with the thermal switch a 60 Hz ripple will be induced into the oscilloscope circuitry.

#### OPERATIONAL CHECK

An operational check of your Model H12-175A Oscilloscope completes this procedure.