Supersedes:

None

HP MODEL 5480A SIGNAL ANALYZER

All Serial Nos.

IMPROVED A3A9 ADDRESS REGISTER

Operation of the 5480A with peripheral recording equipment can be improved by using a new A3A9 board, which was designed for the 5480B signal analyzer, or modifying the present board. Previously, holding the RECORD button (or applying a long external RECORD PBM signal) would cause fast recycling through channels 1 to 4 of the memory.

Releasing the button or completing the external control pulse would then start the record operation as it was designed to do. The recycling is not noticeable with all recording equipment but in some cases it may be annoying.

The problem can be completely cleared up with the new 5480B board or the old board may be easily modified. The new circuit requires an additional signal line which is very easy to install. It takes the "CLEAR DAR B" signal from A3A10 (V) and applies it to A3A9(S).

PARTS AFFECTED BY CHANGE

Old No: 05480-60007

New No: 05480-60077

Updated Rebuilt No: 05480-60061 (for board exchange program).

INSTALLATION PROCEDURE

1. Remove left side panel, bottom and top covers of the 5480A.
2. Locate the A3 Section at the left rear of the mainframe. Find A3XA9 which is the 9th socket from the rear, with the instrument right side up.
3. Using a 3/4" (2 cm) shielded hook-up wire, jumper between A3XA9(S) and A3XA10 (V).
4. Turn 5480A upside down and find board A3A9. Pull out board 05480-60007 and replace with rebuilt board No. 05480-60061; or with new board No. 05480-60077; or modified present board as described below.
5. Turn instrument right side up. Turn on power and test

MODIFICATION OF 05480-60007

1. Drill holes with No. 64 drill bit as follows from foil side of board. (Refer to Parts Locator diagram, Figure 1.)
   a. Hole(s) 1/8" above IC16 (12); hole(t) 3" to left of the IC16 (12) hole and 1/8" from top of board; hole(u) 3/16" up from board terminal "S" and just to right of foil.
   b. Hole(v) 1/8" above IC16 (13); hole(w) 3/8" to right of IC16 (14); hole(x) 5/8" down from previous hole and through foil of lead going to terminal "18".
   c. Hole(y) 3/16" above IC17 (13); and hole(z) 1/8" left of IC16 (8).
2. Cut foil with No. 60 drill bit at point 3/16" downward from IC17 (1) to break connection.
3. Cut lengths of No. 24 bare hook-up wire as specified and connect as follows (lengths are sufficient for small hook around IC terminal):
   a. (8") Solder to IC16 (12), run through hole(s) to hole(t) run through this hole and straight down to hole(u) for board terminal "S". Push lead through hole(u), bend over on top for strength, and solder to foil. Use insulation, 3" on top of board, and 4" on bottom of board.

WH/sg/WN

3/70-2

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b. (1-5/8") Solder to IC 16 (13), run through hole(v) to hole(w) and through it, run wire down to hole(x) through it and the foil going to terminal 18, push end through hole, bend over for strength, solder to foil. Use 3/8" insulation on top of board.

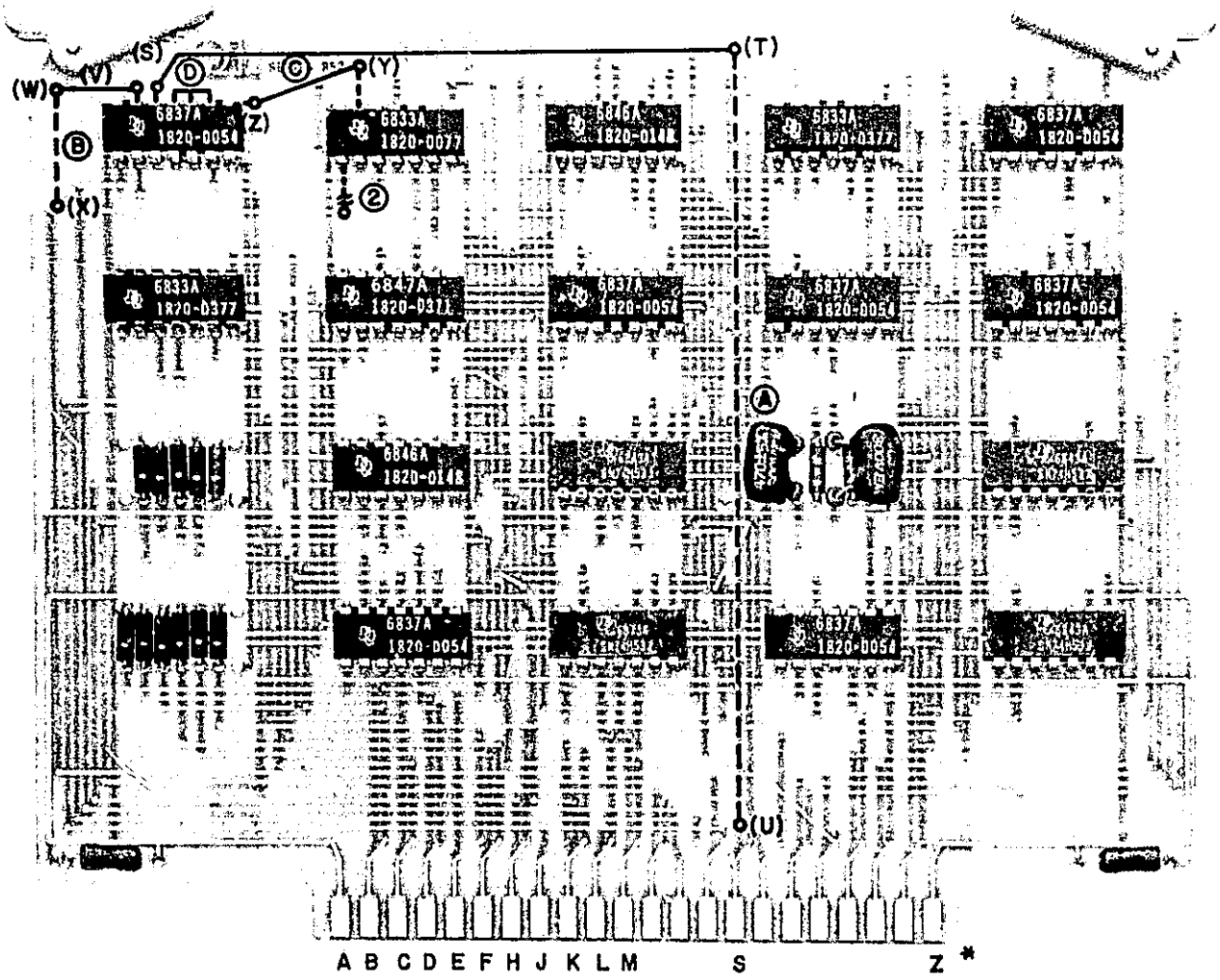
c. (1-3/8") Solder to IC17 (13) and run through hole(y) to hole(z) and through to terminal IC16 (8). Solder both ends. Use 9/16" insulation on top of board.

d. (1/4") Solder across IC16 (9, 10, 11).

4. Fasten down long leads with Duco Cement and clean board.

TEST PROCEDURE

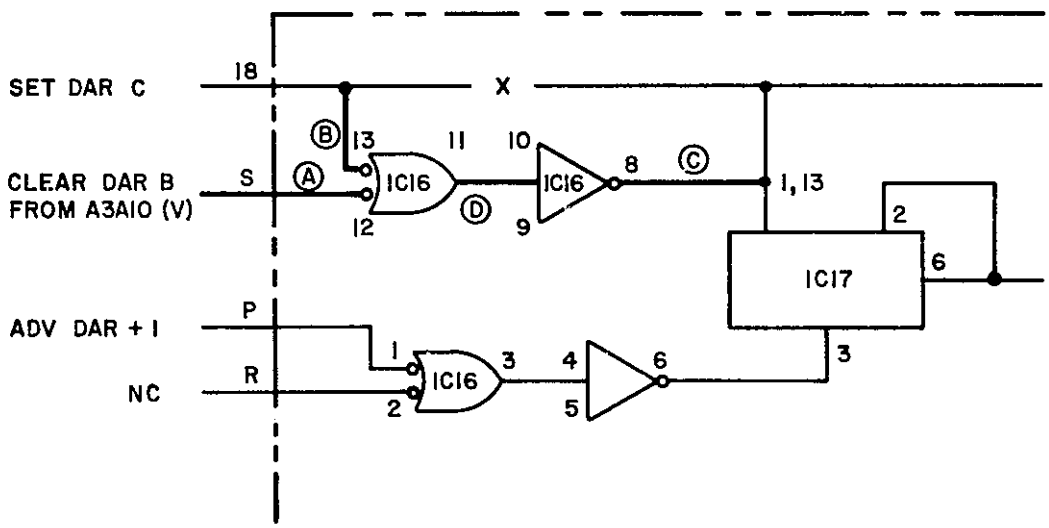
1. Set up front panel controls as for Averaging operation. Use INTERNAL TRIGGER SOURCE.
2. Set SWEEP TIME to 100 msec/cm.
3. Apply front panel CALIBRATOR signal to Analog Plug-in input.
4. Throw DC/GND/AC switch to AC.
5. Press CLEAR DISPLAY buttons.
6. Push START. Trace should deflect almost equally above and below center line.
7. Push DISPLAY. DISPLAY button should light and oscillogram should hold steady.
8. Depress RECORD button. While depressed, a single dot should appear on left of CRT screen.
9. Release RECORD button and trace moves across CRT once. STOP light comes on at end of sweep.



NOTE: LETTER AND NUMBER CALLOUTS REFER TO TEXT. SOLID LINES FRONT, DASHED FOR BACK OF BOARD.
* TERMINALS LETTERED FOR BACK SIDE OF BOARD.

Figure 1.

A3A9 REGISTER ASSEMBLY (05840-60077)*



* PARTIAL SCHEMATIC: "X" SHOWS BREAK NECESSARY TO MODIFY 05840-60007 BOARD. HEAVY LINES INDICATE ADDED JUMPERS TO MODIFY 05480-60007 BOARD.

Figure 2