

SUPERSEDES:

None

5480A

PLOTTER INTERFACE PROBLEMS

Several problems have arisen when attempting to Interface a 5480A with any type of Plotter. A problem/cure synopsis is provided in this memo for your information.

Problem

Record Mode, with SWEEPTIME set to EXT, does not begin when RECORD button pressed.

Remedy

Replace A7 INTERFACE ASSEMBLY (05485-60009) with current series 964.

Problem

5480A instruments with serial number prefix 928 and lower plot the first four memory channels repeatedly when the RECORD button is pressed, until it is released.

Remedy

Modify the A3A9 (05480-60007) board as per instructions in Service Note 5480A-2.

Problem

Non-compatibility of 5480A units. serial numbers 852-00175 and below and Interface cable 10640B. The older 5480A units have a 24 pin blue ribbon connector and two BNC connectors labeled SEEK and PLOT. The new 5480B and 5480A with serial numbers 928-00176 and above have a 14 pin Blue ribbon connector labeled PLOTTER and has eliminated the two BNC connectors. Obviously, a compatibility problem exists.

Remedy

Order Interface cable 10640B for 5480B for 5480A along with special Interface adapter box K07-5480A.

The K07-5480A Adapter Box connects to the rear panel of the 5480A and couples signals necessary to a 14 pin Blue ribbon connector for the 10640B cable.

Problem

Some plotters require different voltage levels for operating PEN LIFT. The 5480A provided only a TTL level to command this operation. With plotters having 35 volts on the PEN LIFT line the TTL gate was destroyed.

Remedy

Correction was made by adding a relay to the 5485A INTERFACE board. Replacing the old A13 board in the 5485A eliminates the PEN LIFT problem, but may add an additional problem as the circuitry for UP/DN sweep in MCS is eliminated. For customers not concerned with UP/DN sweep in the MCS mode, order board 05486-60044. For customers using UP/DN sweep mode, order special board 05486-60080. This board mounts to the side frame of the 5480A and is electrically connected between the old PEN LIFT signal from A13 and the BNC on the 5480A rear panel. Wiring procedures accompany the board assembly.

Problem

5480A will cause plotter to "Buzz" when servos are left on during an accumulation mode. Problem caused by not having signal L RECORD brought out to the rear panel.

Remedy

User must manually arm the recorder servo during OUTPUT RECORD and disarm at all other times.

