1450 FREQUENCY RESPONSE TILT WITH TEMPERATURE

REF: 1450-1 Instruction Manual 070-2200-01

1450-2 Instruction Manual 070-2998-00

1450-3 Instruction Manual 070-3660-00

To correct a problem in Frequency Response Tilt over the 1450's specified operating temperature range, R64 and R54 on the I.F. Post Amp Assy, A26 were changed.

R64 becomes a 131-0566-00, 0 ohm resistor.

R54 becomes a test selectable fixed resistor with a nominal value of 43 ohms (P/N 315-0430-00) and a range of 20 ohms to 51 ohms.

R54 is selected for best frequency response tilt over temperature. Step 10 in the 1450-1 Manual specifies the adjustment procedure for R64. Experience on the Manufacturing line has shown that a combination circuit resistance of 43 ohms will achieve the required specifications, but R54 was made test selectable to allow for those few instances where minor deviations may be encountered.

This change will help reduce problems in other areas such as power levels and transient response, that are dependent upon a flat response curve.

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2445/2465 POTENTIAL RELIABILITY PROBLEM

SERIAL NUMBERS: All

BOARD PART NUMBER: 670-7277-00, 01, 02, 03, 05

PROBLEM: Poor Edge Focus

SOLUTION: Replace A9C1891 (P/N: 281-0775-00; Capacitor, 0.1uF, 20% 50V) with P/N: 281-0773-00 (Capacitor, 0.01uF, 10%, 100V). Depending on where the Edge Focus potentiometer (A9R1864) adjusted, the voltage applied to A9C1891 is from 42VDC to 87VDC. Up until now, A9C1891 had only a 50 volt rating.

RECOMMENDATION: Visually check to see if the value of A9C1891 is 0.01uF. The capacitor will be marked with the number "104" or a "103". A "104" indicates 0.1uF and "103" indicates the new correct value, 0.01uF. If it cannot be determined either visually or with a capacitance meter that A9C1891 is 0.01uF (P/N: 281-0773-00) 100 volt rating, replace the capacitor with the correct part (P/N: 281-0773-00). If you install a new part please install it so the number "103" faces upwards so it can be read easily in the future. Note: Every 2445/2465 that comes in for service must have this capacitor checked for the proper value and voltage rating.

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4054/4054A Q5001 AND Q5002 MODIFICATION

Ref: 4054/4054A Parts and Schematics Service Manual, Part Number 070-2839-03

Corporate Modification M50121

Many 4054 products have been experiencing intermittent start-up malfunctions as well as intermittent "locked busy" failures during operation. These malfunctions are usually caused by failures on the I/O or MAS boards, with RAM failures the most predominant. These failures have been traced to poor or intermittent connection of the cables to Q5001 and Q5002. These transistors are mounted to the CPU frame and are connected to J117 and J118 on the I/O board.

(ARTICLE CONTINUED ON THE NEXT PAGE)

4054/4054A Q5001 AND Q5002 MODIFICATION (CONT.)

The modification allows removing the contacts and housings from the transistor ends of these cables, stripping back the insulation and soldering the wires directly to the transistor legs. See schematics for details on color codes and transistor connections.

4054A's with serial number of B043200 or greater will have this modification.

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4054/4054A SCREWS CPU SANDWICH TO FRAME ASSEMBLY

Ref: 4054/4054A Parts and Schematics Service Manual, Part Number 070-2839-03

Questions have filtered in from different field personnel concerning the length and placement of the screws which hold the CPU sandwich to its frame assembly. The figure below shows the frame assembly, the screws and the holes which the screws are inserted through. Note circled alpha characters, each denote a different length screw. Following the figure is a table for cross-referencing the index character to screw length.

Note that there are two "D" type screws listed. On the 4054A this screw goes through the ALU board and into the I/O board, whereas on the 4054 it only screws to the ALU board.

(ARTICLE CONTINUED ON THE NEXT PAGE)

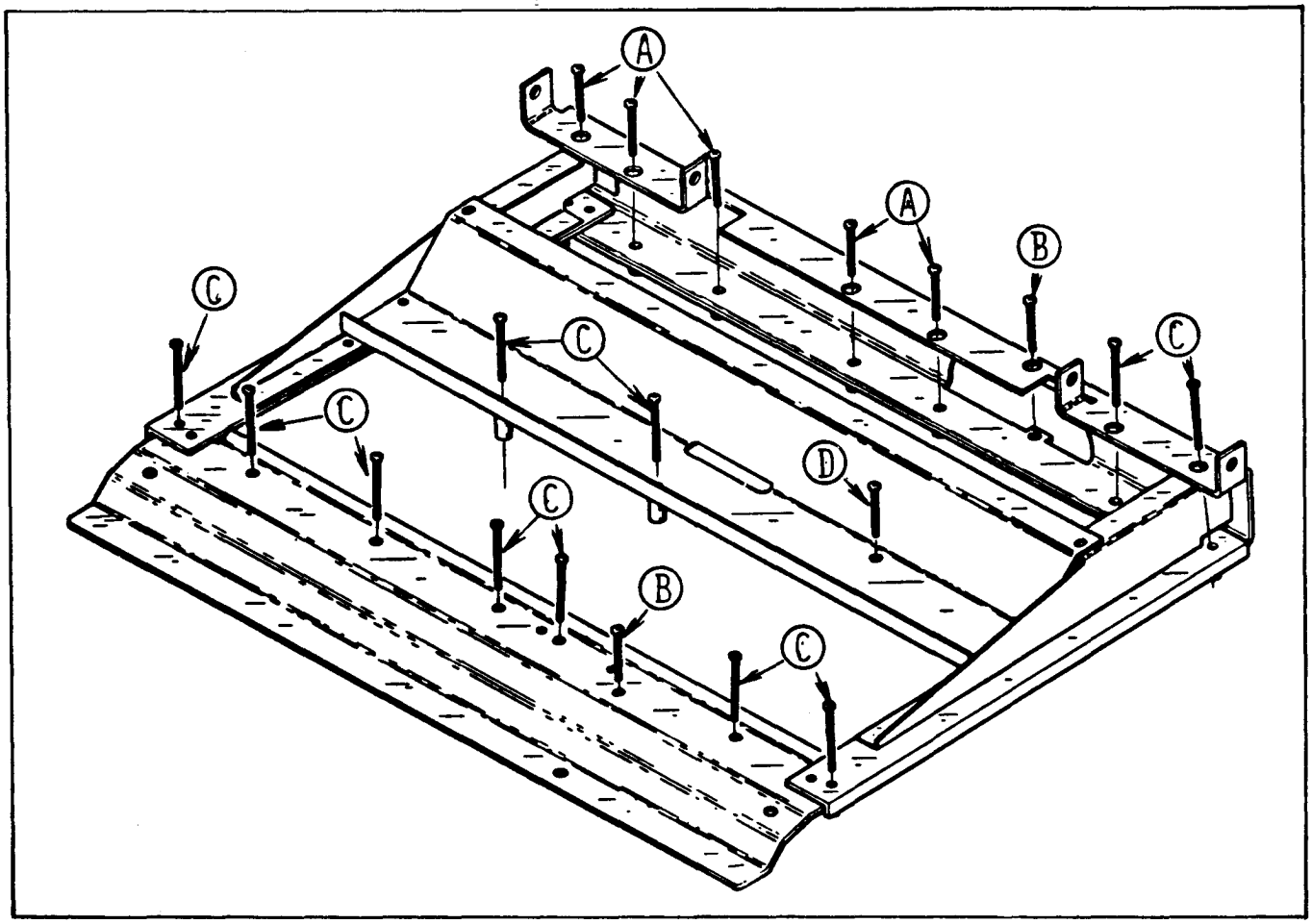

Figure 1