

INTENT: Provide supplementary or additional maintenance information not available in the Service Implementation Plan or Service Manual. Reference should be made to the published Service Implementation Plan, dated August 28, 1981.

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I. DESCRIPTION

The 4054 Option 31 consists of a 4054 Option 30 with a color enhanced refresh 19 inch DVST. The color refresh is accomplished by using a mixture of red and green phosphors on the CRT. In refresh mode the writing beam excites both red and green phosphors resulting in an orange trace. In storage mode, the writing beam also excites both red and green phosphors causing a momentary orange trace, then a stored green trace on the screen.

Some of the circuit boards used in the 4054 Option 31 Display are different from those used in the Standard Display. Below is a list of the differences.

<u>Description</u>	<u>Standard</u>	<u>Option 31</u>
Power Supply Board	670-4798-04	670-4798-04
Deflection Amp	672-0783-04	672-1025-00
Storage Board	672-0795-04	672-0795-06
High Voltage	672-0807-01	672-1026-01

The Low Voltage Power Supply and the High Voltage Boards are interchangeable between the two units. The Deflection Amps and Storage Boards are not interchangeable. In addition a 6 Amp Fuse is now being used on both the Standard and Option 31 4054.

II. SERVICE MANUAL

A Service Manual Revision is being sent to update the 4054 Parts and Schematics Service Manual. A preliminary calibration procedure for both the Standard and Option 31 4054's has been distributed as a Service Organization Bulletin. The final version of the Calibration Procedure will be sent as a manual revision by week 41.

(ARTICLE CONTINUED ON THE NEXT PAGE)

4054 OPTION 31 - SERVICE MAINTENANCE INFORMATION PLAN (continued)

III. FIELD INSTALLATION

The Option 31 Color Enhanced Refresh is not offered as a Field Installable Option.

IV. SERVICE IMPLEMENTATION PLAN UPDATE

A. Maintenance Agreement Price

	<u>Schedule A</u>	<u>Schedule B</u>
4054 Option 31	+35	N/A

This price includes Option 30 Maintenance Agreement Price.

B. Board Exchange, Repair & Return PPRL Prices

<u>Part Number</u>	<u>Description</u>	<u>Exch.Price</u>	<u>R&R Price</u>	<u>PPRL</u>
670-4798-04	Display Power Supply	100	80	250
672-1025-00	Deflection Amp	160	130	440
672-0795-06	Storage Board	125	100	390
672-1026-01	High Voltage	155	125	550

V. PLANNED MAINTENANCE

The planned maintenance requirements for the 4054 Option 31 will be the same as for the Standard 4054.

VI. FAULT ISOLATION TECHNIQUES

There are only minor electrical changes to circuitry used in the 4054 Option 31. The present Fault Isolation Methods used in the Standard 4054 can be used in the 4054 Option 31.

The luminance of the Color Write Thru 19" DVST will vary from tube to tube. The basic criteria for acceptable CRT luminance is that the stored and refresh data must be readable and usable.

--Frank Lees
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