

# Chapter 8

## Product History

### 8.1 Introduction

This chapter contains information for using this manual with earlier units for which the content doesn't apply directly.

To use this manual with an earlier unit, refer to table 8-1 to determine the backdating information that applies to a particular unit. Then refer to section 8.2 for a detailed description of each item. (Units not identified in the table have no backdating information.)

**Table 8-1. Backdating Summary**

Version	Serial Numbers	Applicable Items*
A (U.S.)	before 2419A-----	1, 2, 4, 5, 6
A (U.S.)	2419A----- to 2421A02306	1, 2, 5, 6
A (U.S.)	2421A02307 to 2423A03109	1, 5, 6
A (U.S.)	2423A03110 to -----A06999	1, 3, 5, 6
A (U.S.)	-----A07000 to 2426A08255	3, 5, 6
A (U.S.)	2426A08256 to 2428A04245	5, 6
A (all versions)	2428A04246 to 2440A17888	6
B (all versions)	before 2440A17889	6

\* Certain items may not apply if a unit has been repaired previously. Check the unit to determine if the item applies.

### 8.2 Backdating History

The following list provides detailed information about each backdating item. (Also, the indicated service notes describe the backdating items.) Refer to table 8-1 to find the items that apply to a particular unit.

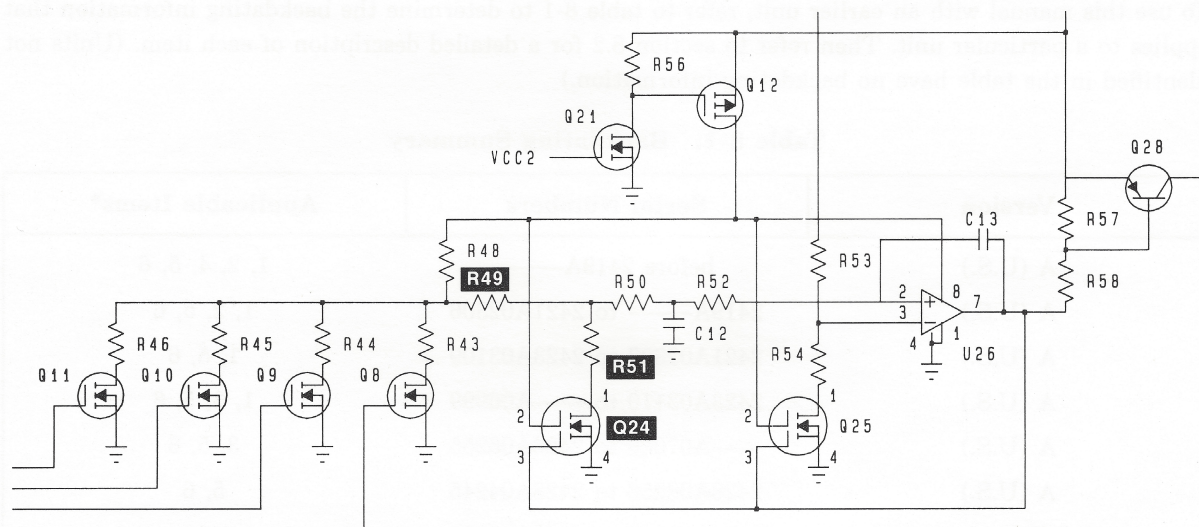
1. **Version A, serial numbers through -----A06999.** Two ROMS (A1U62 and A1U63) and the configuration EPROM (A2U28) have been updated. If any of them fail, replace all three with updated parts. If you replace the system PCA, install an updated PCA and an updated configuration EPROM. Refer to table 6-9 for updating information. (Service Note 110-01.)



2. **Version A, serial numbers through 2421A02306.** Transistor A2Q24 and resistors A2R49 and A2R51 are not as specified in chapter 6. If one of these components fails, replace it according to the following list. (Service Note 110-02.)

Reference Designation	HP Part Number	Description
Q24	1855-0557	TRANSISTOR, dual-gate MOSFET, 20V
R49	0757-0463	RESISTOR, 82.5 k $\Omega$ , 1%, $\frac{1}{8}$ W
R51	0757-0278	RESISTOR, 1.78 k $\Omega$ , 1%, $\frac{1}{8}$ W

The following schematic diagram shows how these components are connected in the LCD supply circuit on the I/O PCA (see figure 9-7).



3. **Version A, serial numbers from 2423A03110 through 2426A08255.** Transistor A2Q25 (part 3N171) is not as specified in chapter 6. If it fails, replace it with part number 1855-0557 (as specified in table 6-6). (Service Note 110-04.)
4. **Version A, serial numbers before 2419A——.** A jumper wire on the system PCA is not installed. The unit may lock up at power-up, with only the contrast key or reset button having any effect. Repair the system PCA by soldering a wire from A1U3 pin 6 to A1R1 pin 11. (Service Note 110-05.)
5. **Version A, serial numbers through 2428A04245.** The modem PCA (A3) is not secured to the I/O PCA with a piece of tape. The unit may experience intermittent operation of the modem. Repair the unit by installing a piece of tape (part number 0460-1802) between the modem PCA (connector A3J7) and the I/O PCA. Refer to section 5.4. (Service Note 110-07.)
6. **All A versions and all B versions, serial numbers through 2440A17888.** Resistor A2R49 is not as specified in chapter 6. If the customer complains of limited contrast range (LCDNEG supply voltage is  $-11$  to  $-12$  Vdc at the darkest setting), replace A2R49 according to table 6-6. This should cause LCDNEG to be  $-12$  to  $-12.5$  Vdc. (Service Note 110-13.)