



Display

Date: **March 8, 1999**

Subject: **CHANGING GRAY CRT TO BLACK CRT**

Model: **PVM-14N1U, PVM-14N2U, PVM-20N1U
 PVM-20N2U, SSM-14N1U, SSM-20N1U**

Serial No: **SEE TEXT**

DESCRIPTION

The black CRT replaces the gray CRT, which has been discontinued.

Perform the following modification procedure when replacing the gray with the black CRT.

This bulletin affects units with the following serial numbers:

14" Monitor

PVM-14N2U 6,000,001–6,003,310
 PVM-14N1U 6,000,001–6,006,068
 SSM-14N1U 6,000,001–6,004,629

20" Monitor

PVM-20N2U 6,000,001–6,001,383
 PVM-20N1U 6,000,001–6,002,387
 SSM-20N1U 6,000,001–6,001,969

MODIFICATION PROCEDURE

14" Monitor

PVM-14N2U 6,000,001–6,002,319
PVM-14N1U 6,000,001–6,003,583
SSM-14N1U 6,000,001–6,002,571

20" Monitor

PVM-20N2U 6,000,001–6,000,847
PVM-20N1U 6,000,001–6,001,487
SSM-20N1U 6,000,001–6,000,967

1. Replace 14" or 20" gray CRT with a black CRT.
2. For 14" monitors: Replace former (470Ω) resistors R351, R361, and R370 on the A board (side B, zones A-9/10/11, respectively) with new 560Ω parts.
 For 20" monitors: Replace former (680Ω) resistors R351, R361, and R370 on the A board (side B, zones A-9/10/11, respectively) with new 750Ω parts.
3. Turn power on.
4. Access Service Mode and change service data as shown in Table 1.
5. Adjust landing, convergence, DY rotation, G2, white balance and focus.

PARTS REQUIRED

For 14" Monitor

Part No.	Description	Qty.
8-738-342-05	CRT, 14MG	1
1-216-645-11	Res, 560Ω, RN-CP (R351, R361, R370)	3
1-208-775-11	Res, 510Ω, RN-CP (R351, R361, R370)	3

PARTS REQUIRED

For 20" Monitor

Part No.	Description	Qty.
8-736-135-05	CRT, 20FZ5	1
1-216-648-11	Res, 750Ω, RN-CP (R351, R361, R370)	3
1-216-647-11	Res, 680Ω, RN-CP (R351, R361, R370)	3

Table 1

No.	DISP	14"	20"
24	BCLTHR (ABL active point)	00BE → 00CA	00E1 → 012D
25	BCLTM (Time required for ABL to operate after beam current changes)	0008 → 000B	
26	BCLG (ABL Gain after ABL becomes active)	0B00 → 0A56	0919 → 0A70
29	EHT (Amount of compensation to ZOOMING of V.SIZE)	002A → 00B0	002A → 0090



14" Monitor

PVM-14N2U **6,002,320-6,003,310**
PVM-14N1U **6,003,584-6,006,068**
SSM-14N1U **6,002,572-6,004,629**

20" Monitor

PVM-20N2U **6,000,848-6,001,383**
PVM-20N1U **6,001,488-6,002,387**
SSM-20N1U **6,000,968-6,001,969**

1. Replace 14" or 20" gray CRT with a black CRT.
2. For 14" monitors: Replace former (430Ω) resistors R351, R361, and R370 on the A board (side B, zones A-9/10/11, respectively) with new 510Ω parts.

 For 20" monitors: Replace former (620Ω) resistors R351, R361, and R370 on the A board (side B, zones A-9/10/11, respectively) with new 680Ω parts.
3. Turn power on.
4. Access Service Mode and change service data as shown in Table 2.
5. Adjust landing, convergence, DY rotation, G2, white balance and focus.

Table 2

No.	DISP	14"	20"
24	BCLTHR (ABL active point)	0082 → 00CA	00E1 → 013E
25	BCLTM (Time required for ABL to operate after beam current changes)	0005 → 0007	
26	BCLG (ABL Gain after ABL becomes active)	0805 → 0808	0805 → 0809
29	EHT (Amount of compensation to ZOOMING of V.SIZE)	Unchanged	0033 → 002A
30	EHTTM (Amount of compensation to ZOOMING of V.SIZE)	Unchanged	0003 → 0006