



Display

Date: **December 7, 1998**

Subject: **REPLACING IC301, A BOARD**

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

Serial No: **SEE TEXT**

DESCRIPTION

The former IC301 VDP3108 (part number 8-759-324-58) on the A board has been replaced with a new IC301 VDP3108-PP-A1, part number **8-759-434-04**. Perform the following modification when replacing the former IC301 with the new part.

NOTE: The former and new IC301 are incompatible.

This bulletin affects units with the following serial numbers:

PVM-14N1U	6,000,001–6,003,583
PVM-14N2U	6,000,001–6,002,319
PVM-20N1U	6,000,001–6,001,487
PVM-20N2U	6,000,001–6,000,847
SSM-14N1U	6,000,001–6,002,571
SSM-20N1U	6,000,001–6,000,967

PARTS REQUIRED

Part No.	Description	Qty.
8-759-434-04	VDP3108-PP-A1 (IC301)	1
8-752-884-33	CXP85220A-046S (IC001)	
8-759-370-33	ST24C04FB6 (IC002)	
1-216-295-11	Res, Chip, 0Ω	
1-126-959-11	Cap, 0.47μF, 50V	
For PVM-14N1U, PVM-14N2U, SSM-14N1U		
1-216-642-11	Res, 430Ω RN-CP (R351, R361, R370) [14 in]	3
1-215-439-00	Res, Metal, 5.6kΩ [14 in]	
For PVM-20N1U, PVM-20N2U, SSM-20N1U		
1-216-646-11	Res, 620Ω RN-CP (R351, R361, R370) [20 in]	3
1-215-443-00	Res, Metal, 8.2kΩ [20 in]	

NOTE: All required parts reside on the A board.

MODIFICATION PROCEDURE

A Board (Side B)

1. Replace former IC301 (zone C-9) with new part.
2. Replace former IC001 (P/N 8-752-872-61; zone E-10) with new part.
3. Replace IC002 (zone C-11) with new part.
4. Replace former resistors R351, R361, and R370 with new 430Ω or 620Ω resistors as detailed in Table 1.
5. Solder three 5.6kΩ resistors (for PVM-14N1U, PVM-14N2U, SSM-14N1U) or 8.2kΩ resistors (for PVM-20N1U, PVM-20N2U, SSM-20N1U) between emitters of Q351, Q355, and Q359 and 9V bus, as shown in Figure 1.
6. Solder 0.47μF capacitor between IC301 pin 51 (negative) and pin 53 (positive).
7. Change connection of IC301 pin 12 from 5V bus to GND as follows:
 - a. Remove 5mm, JW187 jumper wire between pin 12 and 5V bus on side A.
 - b. Solder 0Ω chip resistor across capacitor C311 on side B to short-circuit capacitor.
8. Turn power on.
9. Access Service Mode as follows:
 - a. Hold [MENU] and press [ENTER].
 - b. When "Ver ***" appears, press [ENTER] twice.
10. To save initial data of microcomputer in IC002, press [MENU] key twice.
11. When INIT ♪ ♪ appears, turn power off then on again, to start up IC002 initial data.
12. Access Service Mode as described in step 11 above, and verify that service data are set to default values.

If they are not the same as default values, set service data to default value (value of Ver. 2.00) as



described in Service Manual, section 3, "Set-Up Adjustments."

NOTE: TINT COMB in "Setting for Each Color Standard" in service data in the Service Manual has been corrected as follows and as described in Video Products Technical Bulletin 1998-250:

No. (34) <35> TINT COMB A8 (Incorrect)

No. (34) <35> TINT COMB FA8 (Correct)

13. Adjust white balance and picture distortion.

CAUTION: Programmable devices are easily damaged by static electricity. Make sure the equipment is powered OFF and you are grounded to the unit with a cable that contains a 1MΩ resistor between you and GND when installing programmable devices. Work with caution when grounded to the unit.

Table 1

Part	Zone	Former Value	New Value	Former P/N	New P/N
PVM-14N1U, PVM-14N2U, SSM-14N1U					
R351	A-9	470Ω	430Ω	1-216-041-00	1-216-642-11
R361	A-10				
R370	A-11				
PVM-20N1U, PVM-20N2U, SSM-20N1U					
R351	A-9	680Ω	620Ω	1-216-045-00	1-216-646-11
R361	A-10				
R370	A-11				

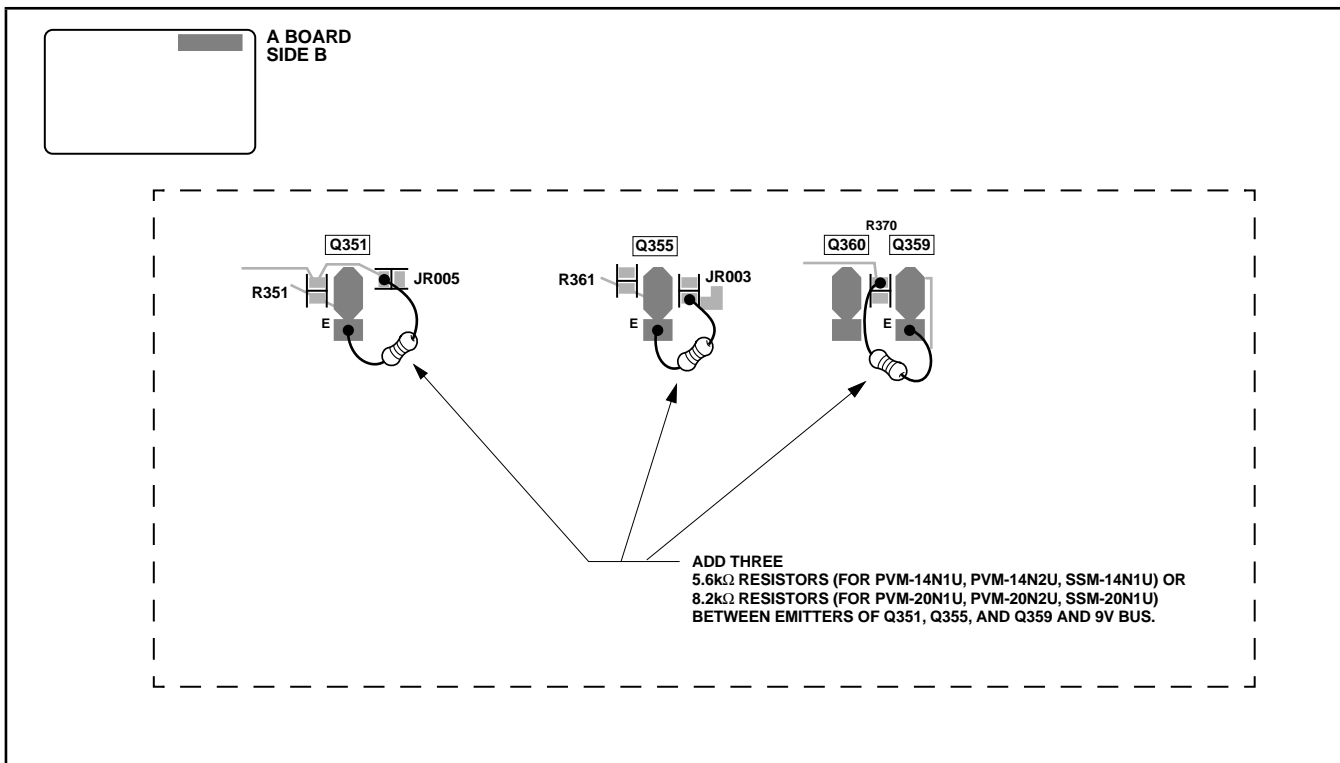


Figure 1