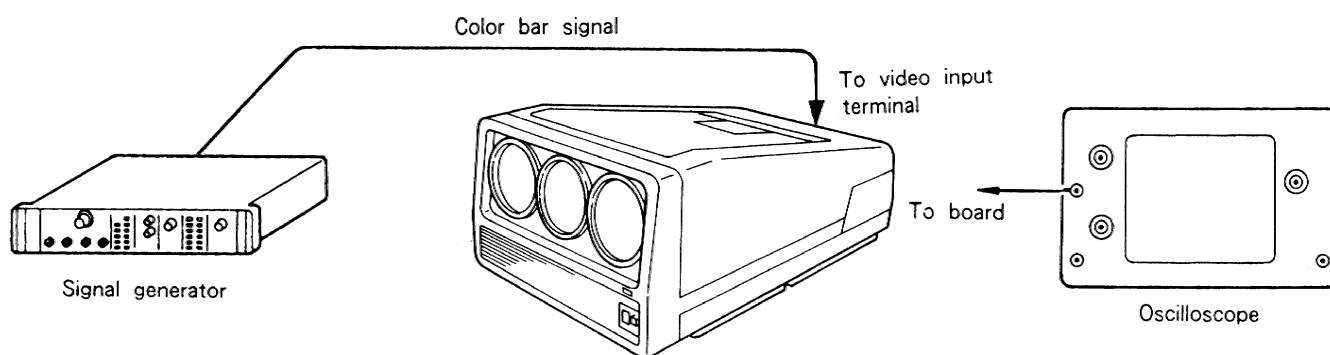
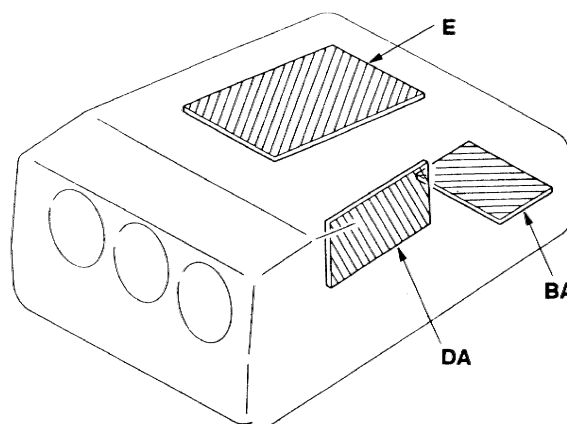


SECTION 6

CIRCUIT ADJUSTMENTS

Note :

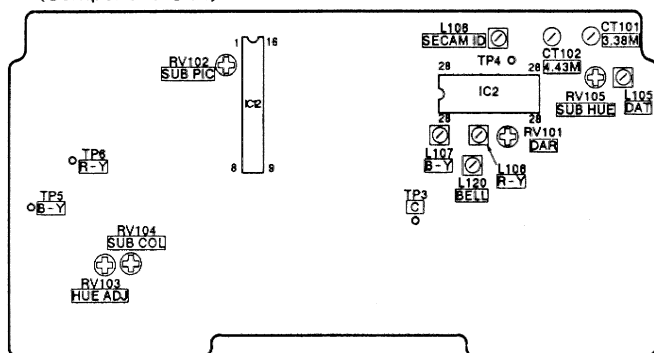
Fit DY (deflection yoke) tightly to picture tube when conducting basic adjustment, electric adjustment or exchanging picture tube.



6-1. BA BOARD ADJUSTMENT

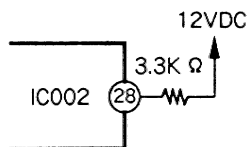
(Add X board, Complete ((A-1499-937-A) to extend)

(Component side)



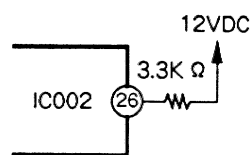
REF. OSC Adjustment (CT101, CT102)

1. Input PAL color bar.
2. Adjust CT102 so that the display becomes colored.
3. Connect 3.3K Ω to IC002 pin ②, apply 12VDC and set at PAL forced MODE.



3. Ground IC002 pin ① and turn color-killer OFF.
4. Adjust CT102 until screen movement slows.

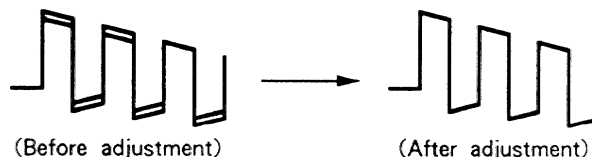
5. Disconnect IC002 pin ① grounding.
6. Input NTSC3.58 color bar.
7. Adjust CT101 so that the display becomes colored.
8. Connect 3.3K Ω to IC002 pin ②, apply 12VDC and set at NTSC3.58 forced MODE.



8. Ground IC002 pin ① and turn color-killer OFF.
9. Adjust CT101 until screen movement slows.
10. Disconnect 3.3K Ω connected to IC.
11. Disconnect IC002 pin ① grounding.

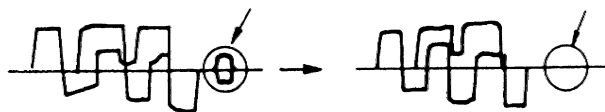
1H DELAY LINE Adjustment

1. Input PAL color bar.
2. Connect oscilloscope to TP-5 and view wave form in H block.



3. Connect 3.3K Ω to IC002 pin ②, apply 12VDC and set at PAL forced MODE.

- Adjust L105 and minimize double line part of wave.
- Input PAL special color bar.
- Adjust RV101 until wave ANTI PAL part is at 0 – level.



(Before adjustment)

(After adjustment)

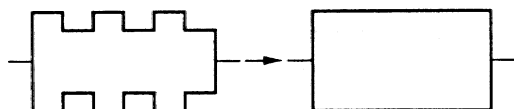
- RV101 and L103 influence each other. Repeat adjustment until both conditions are satisfied.

SECAM ID Adjustment (L108)

- Input SECAM color bar.
- Connect 3.3K Ω to IC002 pin ②, apply 12VDC and set at PAL forced MODE.
- Connect digital multimeter to TP4.(input impedance over 50M Ω)
- Adjust L108 level to maximum.

BELL Filter Adjustment (L120)

- Input SECAM color bar.
- Connect 3.3K Ω to IC002 pin ②, apply 12VDC and set at PAL forced MODE.
- Connect oscilloscope to TP3 and view wave form of H block.
- Adjust L120 until wave is flat.



(Before adjustment)

(After adjustment)

※ Track L120 and L108

SECAM DISCRI Adjustment (L106, L107)

- Input SECAM color bar.
- Connect 3.3K Ω to IC002 pin ②, apply 12VDC and set at PAL forced MODE.
- Connect oscilloscope to TP6 and view wave form of H block.

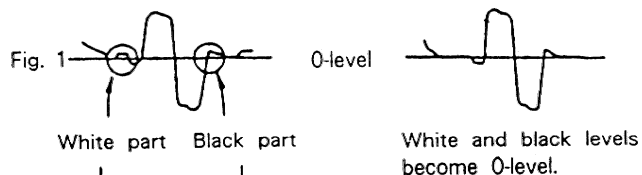


Fig. 1

0-level

White part Black part

White and black levels become 0-level.

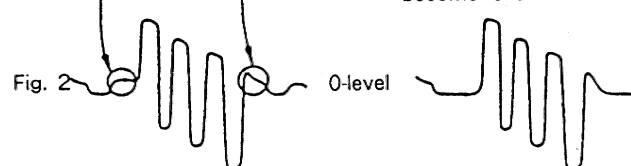


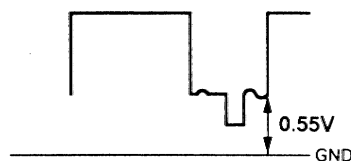
Fig. 2

0-level

- Adjust L106 until white and black part of TP6 wave become 0 – level.(Fig. 1)
- Connect oscilloscope to TP5 and view wave form of H block.
- Adjust L107 until white and black part of TP5 wave become 0 – level. (Fig. 2).

SUB BRIGHT Confirm

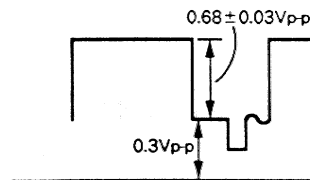
- Input blank signal (100IRE).
- Connect oscilloscope to BB board TP5 and view wave form of H block.



- Confirm pedestal level is $0.55 \pm 0.02V$.

SUB PICTURE Adjustment (RV102)

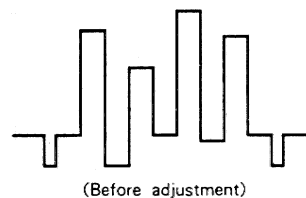
- Input blank signal (100IRE).
- Connect oscilloscope to BB board TP5 and view wave form of H block.



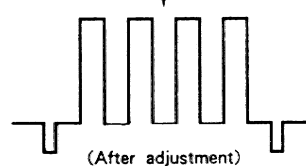
- Adjust RV102 until pedestal to peak is $0.68 \pm 0.03Vp-p$.

HUE, SUB COLOR, SUB HUE Adjustment (RV103, RV104, RV105)

- Input PAL color bar signal.
- Connect oscilloscope to TP10 and view wave form of H block.
- Adjust RV103 (HUE) and RV104 (SUB COL) until wave is flat.



(Before adjustment)

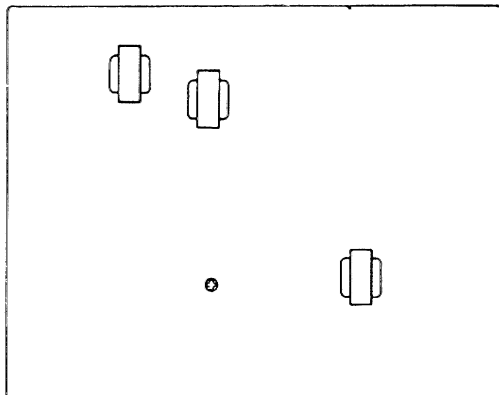


(After adjustment)

4. Input NTSC3.58 color bar.
5. Adjust RV105 (SUB HUE) until wave is flat.

6-2. E BOARD ADJUSTMENT

(Component side)



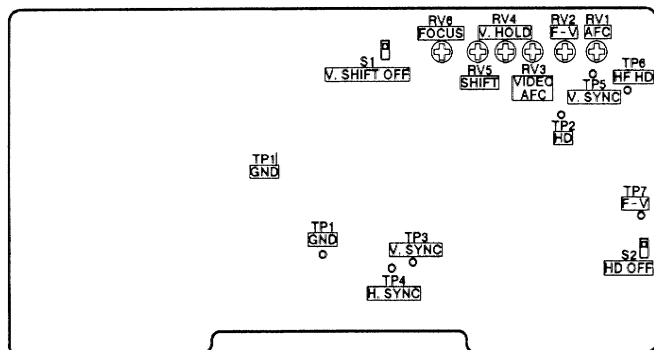
H.SIZE Adjustment (RV104)

1. Input monoscope signal.
2. Press remote commander [SIZE] key, and then arrow key to set H. SIZE at maximum.
3. Turn RV104 and adjust to frame 15.

6-3. DA BOARD ADJUSTMENT

(Add X board, Complete ((A-1499-937-A) to extend)

(Component side)



AFC Adjustment (RV1)

1. Input approximately 30KHz R, G, B signal.
2. Turn RV1 full clockwise.
3. Press S2 (HD OFF) switch and set at image free running state.
4. Turn RV1 counter clockwise a little at a time and stop image.
5. Connect TP2 to frequency counter.
6. Read frequency counter indicated value while pressing S1 switch.

The value is f1.

7. Turn RV1 full counter clockwise.
8. Press S2 switch and set at image free running state.
9. Turn RV1 to clockwise a little at a time and stop image.
10. Read frequency counter indicated value while pressing S2 switch.

The value is f2.

11. Adjust $\frac{f1+f2}{2} \pm 200\text{Hz}$ value with RV1.

Video AFC Adjustment (RV3)

1. Input video signal.(fH=15,75KHz, FV=60Hz)
2. Turn RV3 (video AFC) full clockwise.
3. Press S2 (HD OFF) switch and set at image free running state.
4. Turn RV3 to left a little at a time and stop image.
5. Connect frequency counter to TP2.
6. Read frequency counter indicated value while pressing S2 switch.

The value is f1.

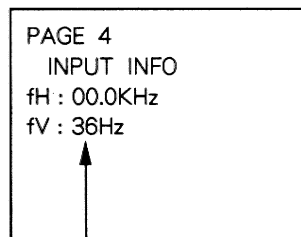
7. Turn RV3 full counter clockwise.
8. Press S2 and set at image free running state.
9. Turn RV3 right a little at a time and stop image.
10. Read frequency counter indicated value while pressing S2.

The value is f12.

11. Adjust to $\frac{f1+f2}{2} \pm 200\text{Hz}$ with RV3.

V HOLD Adjustment (RV4)

1. Set at No-signal state.
2. Press remote commander key and display PAGE4.
3. Press S1 (V SYNC OFF).
4. Adjust until screen display fV is $36 \pm 2\text{Hz}$ with RV4 (V HOLD).



Adjust to RV2 $36 \pm 2\text{Hz}$

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.