

# Service Mode Adjustments

Following adjustments should be carried out when the memory IC is replaced. How to enter the service mode and adjust values, please refer to “Entering to Service mode” on page 11.

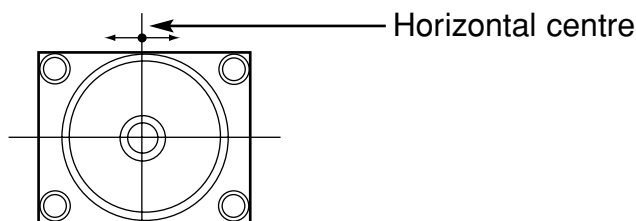
## Item 01 [RF AGC] AGC

NOTE: Do not attempt this adjustment with weak signal.

- (1) Tune the receiver to most clearest (or strongest) VHF station in your area. Set the brightness and contrast controls to maximum. Set the colour control to minimum.
- (2) Select [RF AGC] in the service mode.
- (3) Change value until the snow noise just disappears.
- (4) Exit from service mode.

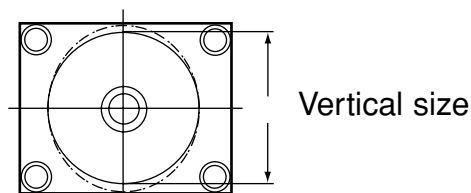
## Item 02 [H-PHA] HORIZONTAL CENTRE

- (1) Receive the monochrome circular pattern.
- (2) Set the brightness and contrast to normal.
- (3) Select [H-PHA] in the service mode.
- (4) Change value to be optimum horizontal centre position.
- (5) Exit from service mode.



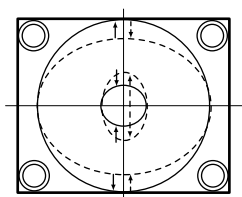
## Item 04 [V-SIZ] VERTICAL SIZE

- (1) Receive the monochrome circular pattern.
- (2) Set the brightness and contrast to maximum.
- (3) Select [V-SIZ] in the service mode.
- (4) Change value to be optimum vertical size.
- (5) Exit from service mode.



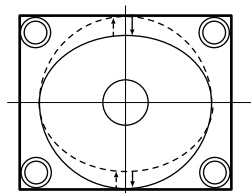
## Item 05 [V-SCO] V-S CORRECTION

- (1) Receiver the monochrome circular pattern.
- (2) Select [V-SCO] in the service mode.
- (3) Adjust V-S CORRECTION by pressing VOLUME + or - button.
- (4) Exit from service mode.



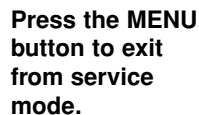
## Item 06 [V-LIN] VERTICAL LINEARITY

- (1) Receive the monochrome circular pattern.
- (2) Select [V-LIN] in the service mode.
- (3) Adjust vertical linearity by pressing VOLUME + or - button.
- (4) Exit from service mode.



**Items 14-17, 19-21 GREY SCALE**

- NOTE: If the grey scale adjustment is made after picture tube replacement, check the high voltage.



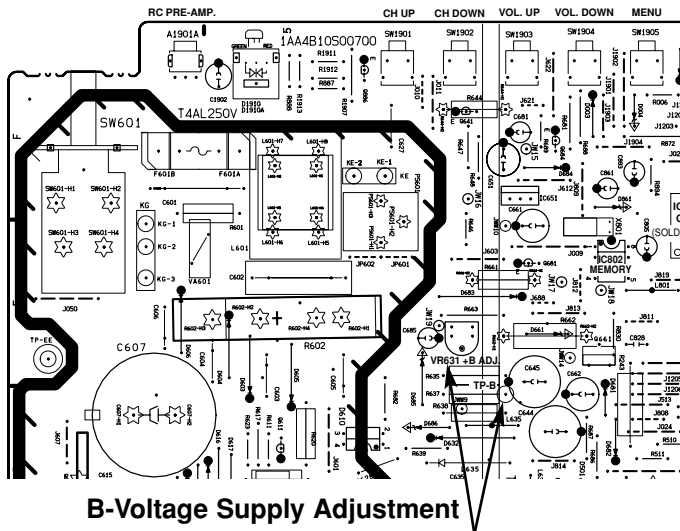
# Service Adjustments

Following adjustments are not required to readjust when replacing the memory IC.

## B-VOLTAGE SUPPLY CHECKING

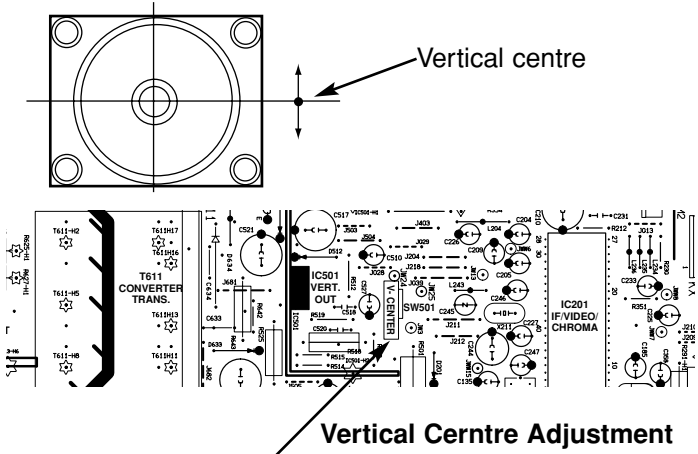
- (1) Connect DC meter to TP-B and the ground.
- (2) Tune the receiver to an active channel and synchro-nized picture. Select NATURAL picture mode by pressing the **PICTURE MODE** button on the remote control.
- (3) Adjust B-voltage to be  $130 \pm 1V$  DC by using VR631.

## MAIN BOARD



## VERTICAL CENTRE

- (1) Receive the monochrome circular pattern.
- (2) Set the brightness and contrast to maximum.
- (3) Adjust the vertical centre of the picture with SW501.

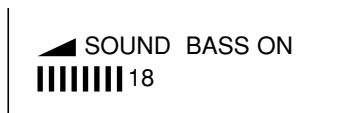


# Special Function

The following special functions can be set up on this TV set.

## (1) Volume Lock setting

With this function, a maximum sound volume limit can be set at any level.



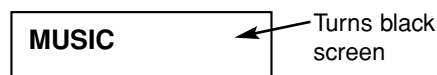
## (2) Tuning Lock setting

Once TUNING LOCK is switched on, further channel tuning (Pre-set) is not possible. The Channel Swapping function also is not possible.



## (3) Music Mode setting

When Music Mode is ON, Programme position from "91" to "99" and "0" are set Music Mode. Only sound is provided and any picture is not on the screen under Music Mode.



## (4) AV Start setting

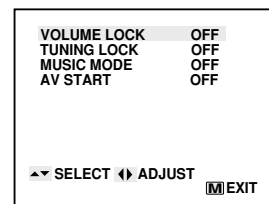
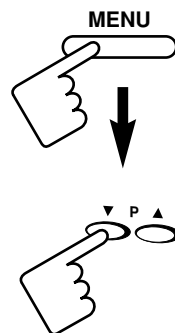
Set AV-START to ON and every time the TV set is switched on, AV position will be the initial programme position.



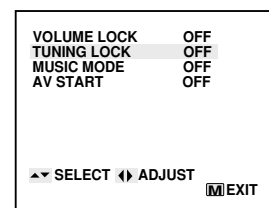
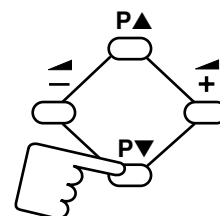
## How to set the special function:

**Note:** When making the VOLUME LOCK setting, set the desired maximum sound volume by pressing the **VOLUME +** or **-** button before entering Special Function setting mode.

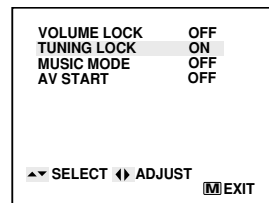
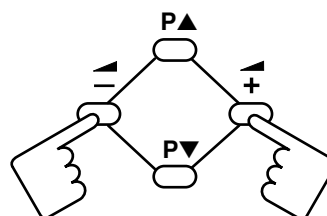
- 1 To enter into the special function setting mode, press and hold the **MENU** button of the remote control, then press the **PROGRAMME DOWN** button on the TV set.



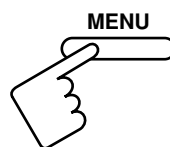
- 2 Select an item of the special functions by pressing the **PROGRAMME UP** or **DOWN** button on the remote control or the TV set.



- 3 Set the selected special function "ON" by pressing the **VOLUME +** or **-** button. To cancel, set to "OFF".



- 4 Press the **MENU** button of the remote control to return to the normal TV mode.



# Purity and Convergence Adjustment

**CAUTION:** The Convergence and Purity adjustments have been made at the factory. Readjustment should be made only after picture tube or deflection yoke replacement, following the steps below:

## PURITY ADJUSTMENT

1. Demagnetize the picture tube and receiver using an external degaussing coil. When replacing picture tube or deflection yoke, mount deflection yoke and purity-convergence magnets assembly properly, see figures 1 and 4.
2. Turn Red and Blue guns off and provide only Green raster. Rotate Screen control to fully counterclockwise. Rotate Red and Blue Bias controls fully counterclockwise. Slowly rotate Green Bias control clockwise to produce Green raster.
3. Loosen the screw holding the Deflection Yoke and remove the 3 Rubber Wedges, and slide the Deflection Yoke fully forward.
4. Rotate and spread the Tabs of the two Purity Magnets to centre the vertical green belt in the picture screen. The Purity Magnets are also adjusted to obtain vertical centring of the raster.
5. Slowly slide the Deflection Yoke backward until a uniform green screen is obtained.
6. Check the purity of the red and blue screens for uniformity, turn off other colours to check this (use bias controls). Readjust the yoke position if necessary until all screens are pure.
7. Adjust each Bias control and screen control to obtain white raster. Refer to Gray Scale Adjustment. If part of the picture screen is coloured, adjust the Deflection Yoke position forward or backward slightly.

8. Tighten the mounting screw of the Deflection Yoke. Adjust Convergence next.

## CENTRE CONVERGENCE ADJUSTMENT

1. Use a dot crosshatch pattern signal.
2. Turn Red and Blue guns on and turn off Green gun. Adjust the angle between the Tabs of the Four Pole Magnet 1 and 2, and superimpose the Red and Blue vertical lines in the centre area of the picture screen. Refer to figure 2.
3. Keeping the mutual angle of the Tabs of the Four Pole Magnet turn them together to superimpose the Blue and Red horizontal lines in the centre area of the picture screen. Refer to figure 2.
4. Turn Green gun on and adjust Six Pole Magnet 3 and 4 that the Green line superimposed on the Red/Blue lines. This is the same procedure used in steps 2 and 3. Refer to figure 3.

## OUTER AREA CONVERGENCE ADJUSTMENT

Slightly loosen the screw holding the Deflection Yoke. Adjust the Deflection Yoke to converge the detail in the outer area (left side and right side) of the picture screen by orbital movement of the front of the Yoke, then secure the Deflection Yoke in appropriate position by putting the wedges as illustrated. Tighten screw holding the Deflection Yoke.

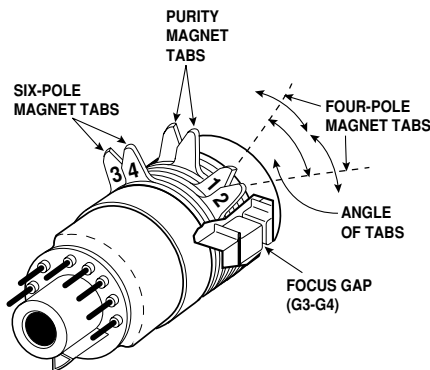


Figure 1. Purity and Convergence Magnets

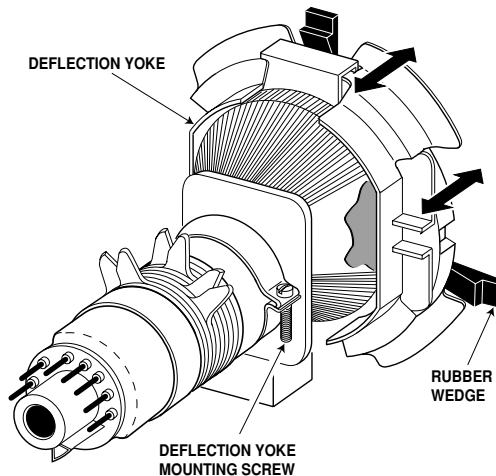


Figure 4. Deflection Yoke Movement

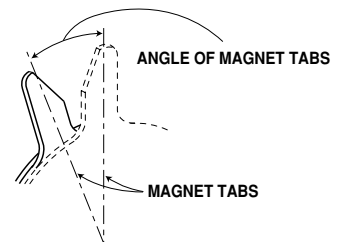


Figure 5. Adjusting Magnet

Adjust tabs angle to superimpose blue and red vertical line.

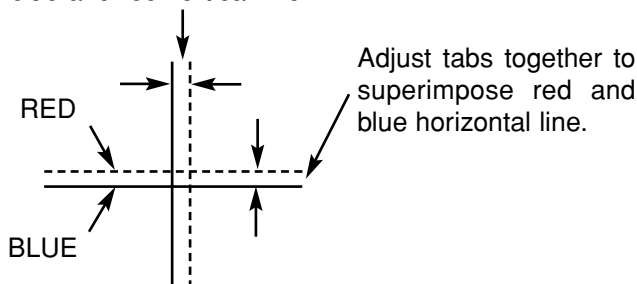


Figure- 2 BLUE AND RED LINE MOVEMENT

Adjust tabs angle to superimpose red/blue and green vertical line.

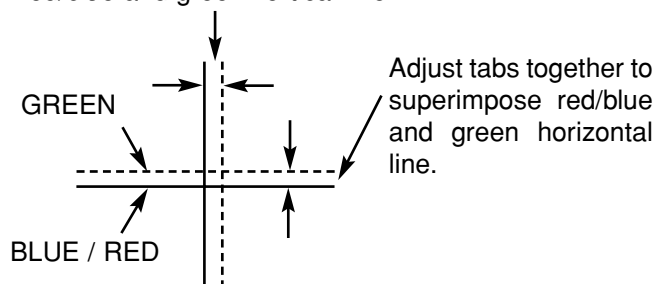
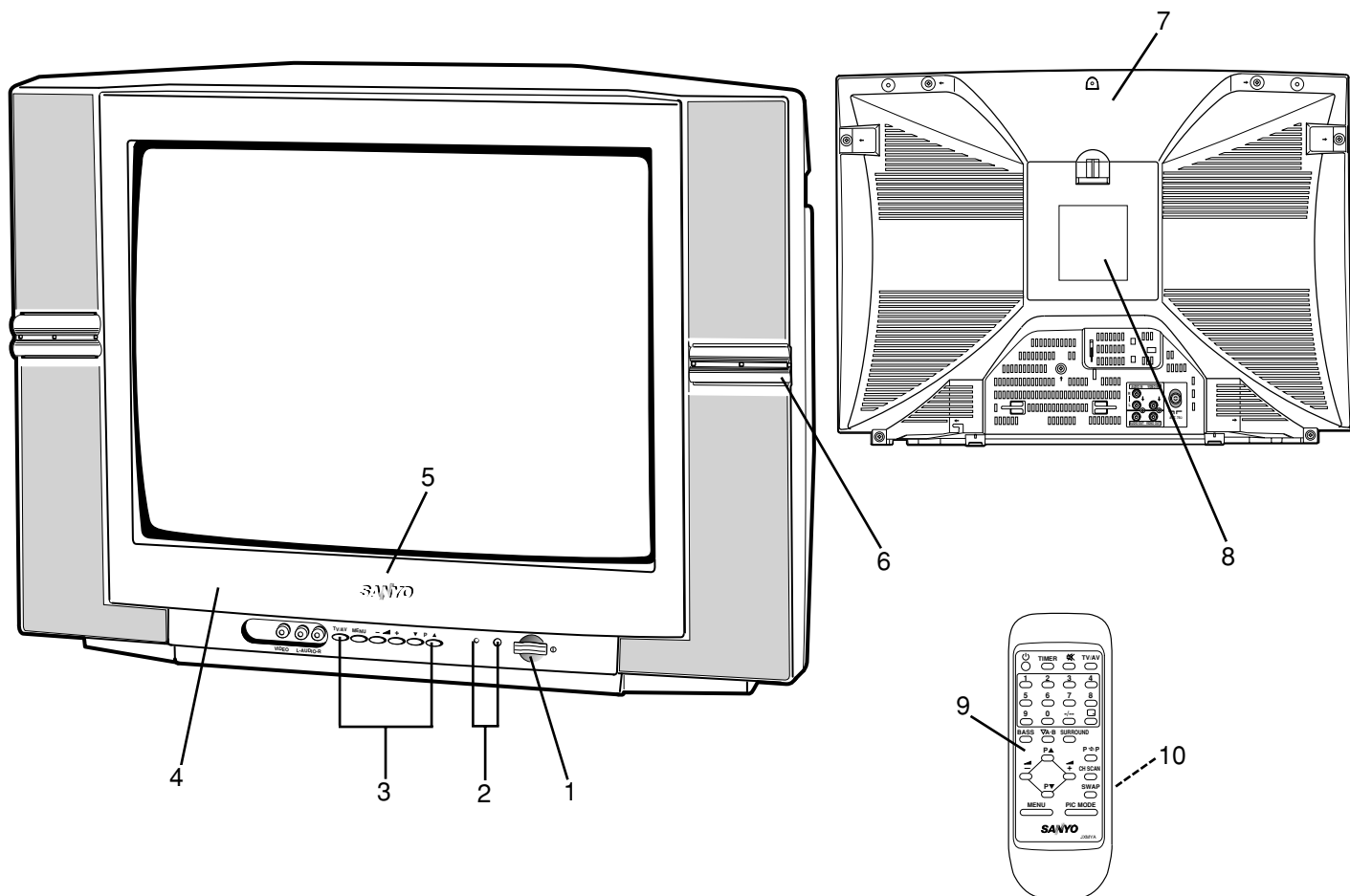


Figure- 3 BLUE/RED AND GREEN MOVEMENT

# Cabinet Parts List

C4VY

Note: Parts order must contain Service Ref. No., Part No., and descriptions.



Key No.	Part No.	Description	Key No.	Part No.	Description
1	610 299 3608	ASSY,BUTTON POWER			
2	610 293 3741	DEC IND			
3	610 299 3615	ASSY,BUTTON UNITED			
4	610 299 3691	CABINET FRONT			
5	645 040 4672	BADGE,SANYO			
or	645 041 7269	BADGE,SANYO			
6	610 299 3714	DEC.SPEAKER			
7	610 296 9207	CABINET BACK			
8	610 299 3868	LABEL RATING			
9	645 054 3579	ASSY,REMOCON JXMYA			
10	610 300 5102	RC-BATTERY LID			
	610 299 3257	INSTRUCTIONS MANUAL			