



SERVICE MANUAL

REAR PROJECTION TELEVISION

BASIC CHASSIS

SB3

AV-48WP74 /HA AV-56WP74 /HA

Supplementary

Since some details of the AV-48WP74/HA / AV-56WP74/HA service manual (No.52105 2003/4) were incorrect , We are informing you of these errors and of the new correct descriptions.

■ ADDITION ITEM

The adjustment performed using test mode is added. For this reason, the item of "HOW TO ENTER THE TEST MODE" was described below.

1) HOW TO ENTER TEST MODE

1. Press [SLEEP TIMER] key and set SLEEP TIMER 30 MIN.
2. While the indication of SLEEP TIMER 30 MIN. is being displayed, press [DISPLY] key and [VIDEO STATUS] key. The TEST MODE screen is displayed. (Fig. 1)
3. Press [5] key and enter the 5.CONVER OFF. (Fig. 2)
4. Press [INPUT] key and select the cross-hatch pattern. (Fig. 3)

NOTE : For this adjustment, it is necessary to use a remote control unit (e.g. RM-C322G) with [INPUT] key.

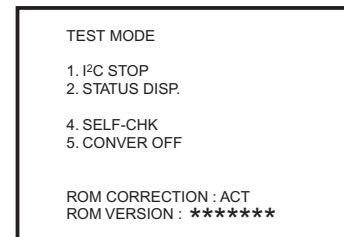


Fig. 1

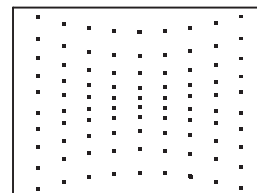


Fig. 2

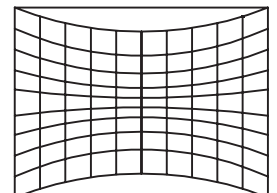


Fig. 3

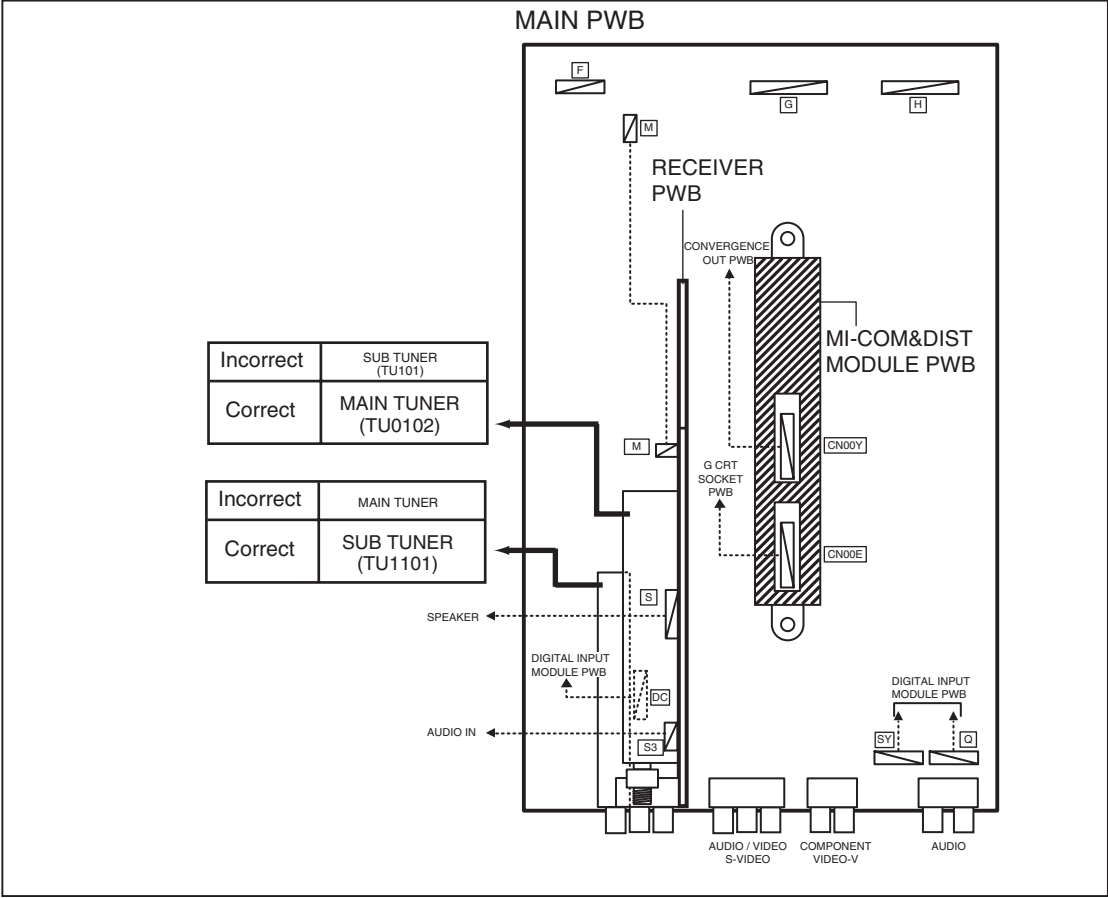
■ CORRECT ITEM

1) 2.9.3 SERVICE ADJUSTMENT ITEM (Page.1-18)

8.PP		
Multi-picture adjustment and setting	ADM001~ADM034	Do not adjust

↑
DELETION

2) 3.4 ADJUSTMENT LOCATION (1/2) (Page.1-22)

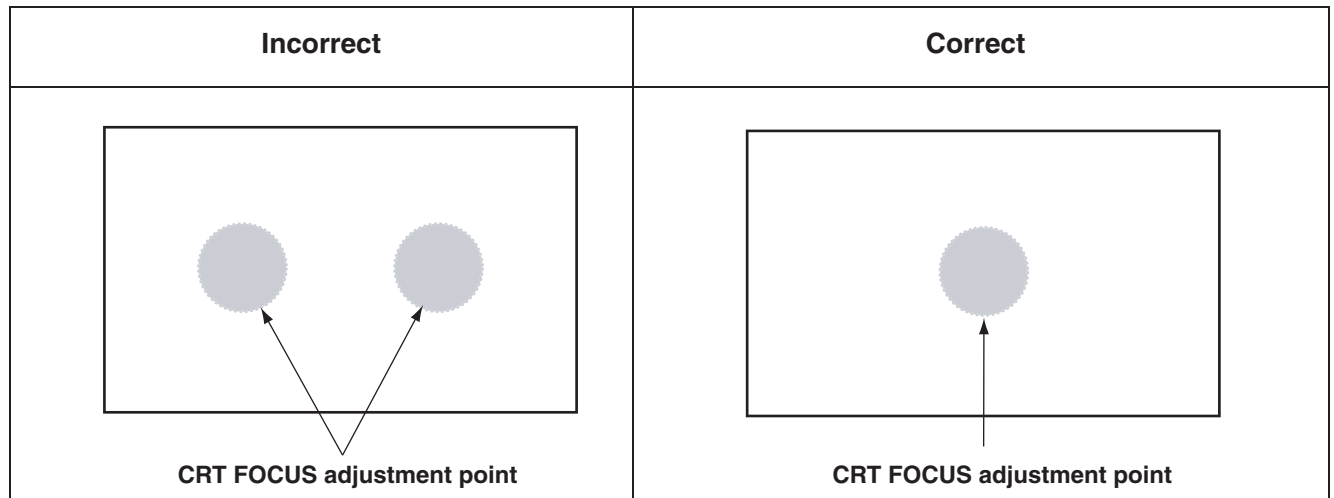


3) 3.8.2 HORIZONTAL FREQUENCY ADJUSTMENT (Page 1-46)

Item	Measuring instrument	Test point	Adjustment part	Description
H. FREQUENCY adjustment	Signal generator		[1.PICTURE/SOUND] D15 : H. FREQ. D19 : DEF. RST	(1) Receive any broadcast. (2) Press [ASPECT] key and select FULL mode. (3) Select 1. PICTURE/SOUND from SERVICE MENU. (4) Select <D19> (DEF. RST) and change the data 0 to 1. (5) While observing the screen, adjust the <D15> (H. FREQ) so that an optimum horizontal synchronization is obtained.
	Remote control unit			(6) After adjustment, select <D19> and change the data 1 to 0.
				(7) Press [MUTING] key to memorize the set value.

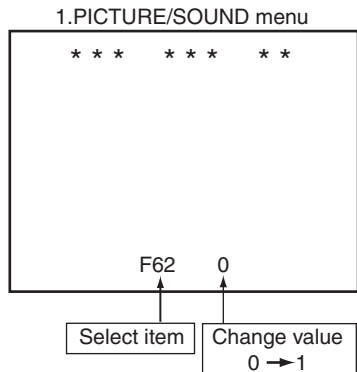
Incorrect <D19>
Correct <D18>

4) 3.8.3 FOCUS & BEAM SPOT ADJUSTMENT (Page 1-47)



5) 3.8.4.2 PREPARATION (Page 1-49)

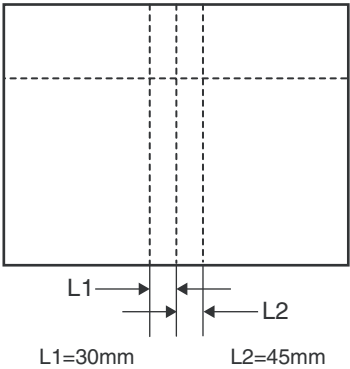
Item	Measuring instrument	Test point	Adjustment part	Description
SCREEN TILT adjustment	Signal generator		[1.PICTURE/SOUND] F62 : Without convergence operation G DEF. YOKE R DEF. YOKE B DEF. YOKE [PROJECTION UNIT]	Confirm correct FOCUS adjustment. (1) Receive NTSC cross-hatch signal. (2) Select 1. PICTURE/SOUND from SERVICE MENU. (3) Select <F62> (Without convergence operation) with [CH +] / [CH -] key (4) Change the data 0 to 1, then it makes picture without convergence operation. (5) Makes a green single color.
	Remote control unit			NOTE : When making a single color, It squeezes SCREEN VR in each one, or it does a lid to the lens in the adjustment color and it makes it single color. (6) Temporarily secure the G deflection yoke to the top of the neck and adjust the tilt of the deflection yoke so that the horizontal line at the center becomes flat. After adjustment, fasten the temporal screw. (7) Adjust the tilt of the R and B deflection yokes in the same manner as for green. NOTE : Make sure that the adjustment of CRT FOCUS is optimized at the center and at the fringe of the center in turn. If the proper adjustment has not been done, adjust FOCUS VR again.



Adjustment according to an internal signal using TEST MODE is also possible.
(TEST MODE : Refer to top page)

ADDITION

6) 3.8.4.2 PREPARATION (Page 1-49)

RASTER CENTERNG & H. POSITION / SIZE (coarse) adjustment	Signal generator Remote Control unit		[1.PICTURE/SOUND] D03 : H. SIZE D14 : H. CENTER F62 : Without convergence Operation G CENTERING magnet G CENTERING magnet G CENTERING magnet [DEF. YOKE]	<div><div>(1) Receive NTSC cross-hatch signal.</div><div>(2) Select 1. PICTURE/SOUND from SERVICE MENU.</div><div>(3) Select <F62> (Without convergence operation) with [CH +] / [CH -] keys.</div><div>(4) Change the data 0 to 1, then it makes picture without convergence operation.</div><div>(5) Makes a green single color.</div><div>NOTE : When making a single color, It squeezes SCREEN VR in each one, or it does a lid to the lens in the adjustment color and it makes it single color.</div><div>(6) Select <D03> (H. SIZE) and shorten the level until and perpendicular amplitude of vibration with until the blanking in Left and Right and on either side can be seen</div><div>(7) Select <D14> (H. CENTER) and adjust horizontal position to make the screen center and signal center.</div><div>(8) Select <D03> and adjust horizontal size to make screen picture approx. 92% of H-SIZE.</div><div>(9) After adjustment, select <F62> and change the data 1 to 0.</div><div>(10) Press [MUTING] key and memorize the set value.</div><div>(11) Adjust G CENTERING magnet to make horizontal and vertical line center as mechanical center of screen.</div><div>(12) Red and blue color too, are reflected by it.</div><div>(13) Using R CENTERING magnet and B CENTERING magnet, adjusts for the line of the red(L1) and the blue(L2) to become the position of the left figure</div><div>NOTE : Vertical center position of the red and blue are the same as green.</div></div>
<div><div>R G B</div><div></div></div>				<div>Adjustment according to an internal signal using TEST MODE is also possible. (TEST MODE : Refer to top page)</div>

↑
ADDITION

7) 3.6.5 SERVICE MENU SETTING (Page 1-26)

3. WHITE BALANCE

Adjustment of LOW LIGHT / HIGH LIGHT

1.SELECT ITEM

- Press [CH+] / [CH-] key

2.SETTING VALUE

BRIGHT

- Press [VOL+] / [VOL-]

DRIVE

[4] key : DRIVE R is up

[7] key : DRIVE R is down

[6] key : DRIVE B is up

[9] key : DRIVE R is down

CUTOFF

[4] key : CUTOFF R is up

[7] key : CUTOFF R is down

[5] key : CUTOFF G is up

[8] key : CUTOFF G is down

[6] key : CUTOFF B is up

[9] key : CUTOFF B is down

WHITE BALANCE
KEY OPERATION CORRECTION

DRIVE

[2] key : DRIVE R is up

[5] key : DRIVE R is down

[3] key : DRIVE B is up

[6] key : DRIVE B is down

CUTOFF

[7] key : CUTOFF G is up

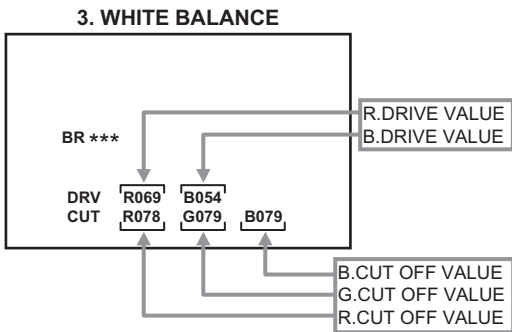
[100+] key : CUTOFF G is down

[8] key : CUTOFF R is up

[0] key : CUTOFF R is down

[9] key : CUTOFF B is up

[TV] key : CUTOFF B is down

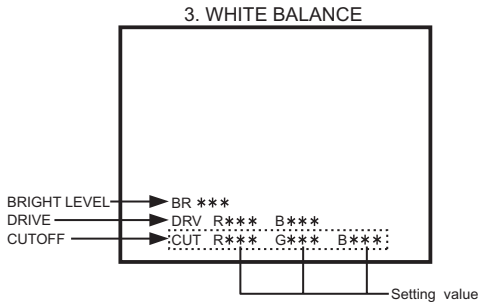


8) 3.8.5 VIDEO ADJUSTMENT
WHITE BALANCE (Page 1-58)

Incorrect	Correct
[1.PICTURE/SOUND] S14: CUTOFF R S16: CUTOFF G S18: CUTOFF B S20: CUTOFF SW R S21: CUTOFF SW G S22: CUTOFF SW B	[3.WHITE BALANCE] BR CUT R CUT G CUT B

Item	Measuring instrument	Test point	Adjustment part	Description
WHITE BALANCE (LOW LIGHT) adjustment	Signal generator Remote control unit		[1.PICTURE/SOUND] S14: CUTOFF R S16: CUTOFF G S18: CUTOFF B S20: CUTOFF SW R S21: CUTOFF SW G S22: CUTOFF SW B	(1) Receive NTSC black & white pattern signal (color off). (2) Select STANDARD mode with [VIDEO STATUS] key. (3) The COLOR TEMP is set at the LOW mode. (4) Select 3.WHITE BALANCE from SERVICE MENU. (5) Increase bright level to confirm LOW-LIGHT with [VOL +] key. (6) Set the setting value. (7) Adjust using [4] / [7] (R CUTOFF), [6] / [9] (B CUTOFF) key so that a black portion may become black. (8) Press [MUTING] key and memorize the set values. (9) Input 480i component black & white pattern signal from COMPONENT/VIDEO terminal. (10) Repeat steps 5 ~ 8 above. (11) Input 1080i component black & white signal from COMPONENT VIDEO terminal. (12) Repeat steps 5 ~ 8 above.

ADDITION



SETTING VALUE

NTSC

BR	133		
DRV	R 073	B 060	
CUT	R 188	G 149	B 215

480i

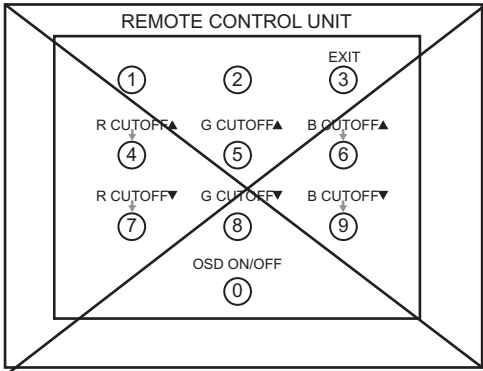
BR			
DRV	R 074	B 058	
CUT	R 194	G 149	B 210

1080i

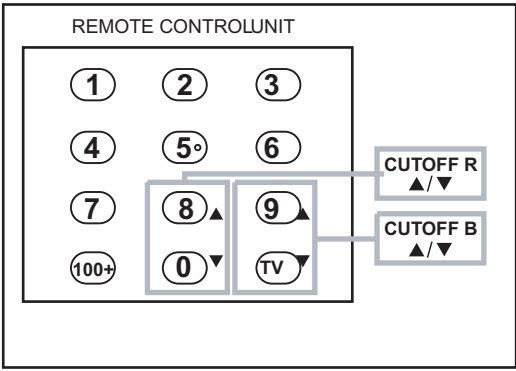
BR			
DRV	R 074	B 058	
CUT	R 195	G 149	B 210

REMOTE CONTROL UNIT
OPERATION KEY NO. CORRECTION

	Incorrect	correct
R CUTOFF	[4] / [7]	[8] / [0]
B CUTOFF	[4] / [7]	[9] / [TV]



Incorrect



Correct

9) WHITE BALANCE (Page 1-59)

Item	Measuring instrument	Test point	Adjustment part	Description
WHITE BALANCE (HIGH LIGHT) adjustment	Signal generator Remote control unit		[1.PICTURE/SOUND] S10: DRIVE R S12: DRIVE B	(1) Receive NTSC black & white signal (color off). (2) Select STANDARD mode with [VIDEO STATUS] key. (3) The COLOR TEMP is set at LOW mode. (4) Select 1.PICTER/SOUND from SERVICE MENU. (5) Select <S10> (DRIVE R) or <S12> (DRIVE B). (6) <u>Set the INITIAL SETTING VALUE.</u> (7) Adjust <S10> or <S12> so that the natural white should be visible. (8) Press [MUTING] key and memorize the set values. (9) Input 480i component black & white signal from COMPONENT VIDEO terminal. (10) Repeat steps 5 ~ 8 above. (11) Input 1080i component black & white signal from COMPONENT VIDEO terminal. (12) Repeat steps 5 ~ 8 above.

ADDITION

1. PICTUER/SOUND

NTSC FULL DA H FL MUTE

Setting Item

S10 DRIVE R ***

Setting value

INITIAL SETTING VALUE

Signal Item	Setting value		
	NTSC	480i	1080i
S10	073	074	074
S12	060	058	058

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Printed in Japan
200310WPC