

JVC®

PRELIMINARY

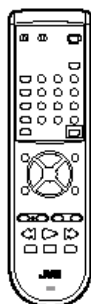
SERVICE MANUAL

COLOUR TELEVISION

BASIC CHASSIS

AC

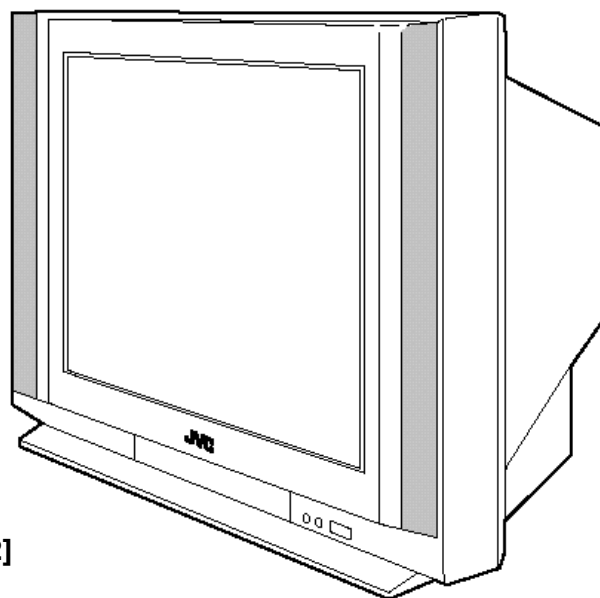
AV-36F802 /Y AV-36F702 /Y



RM-C303G
[AV-36F702]



RM-C301G
[AV-36F802]



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- SAFETY PRECAUTIONS
- SERVICE ADJUSTMENTS
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SAFETY PRECAUTIONS

- The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (⚠) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.
- Use isolation transformer when hot chassis.**
The chassis and any sub-chassis contained in some products are connected to one side of the AC power line. An isolation transformer of adequate capacity should be inserted between the product and the AC power supply point while performing any service on some products when the HOT chassis is exposed.
- Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND, the ISOLATED(NEUTRAL) : (⚡) side GND and EARTH : (⊕) side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND at the same time.
If above note will not be kept, a fuse or any parts will be broken.
- If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See ADJUSTMENT OF B1 POWER SUPPLY).
- The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
- Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.
- When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

10. Isolation Check

(Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

(1) Dielectric Strength Test

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 1100V AC (r.m.s.) for a period of one second.

(... Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)

This method of test requires a test equipment not generally found in the service trade.

(2) Leakage Current Check

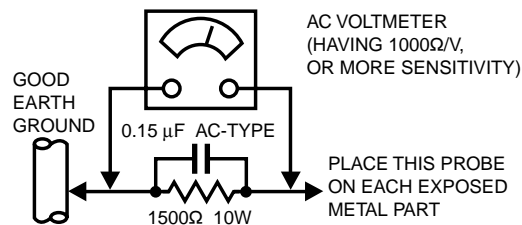
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).

However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

● Alternate Check Method

Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).

However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



11. High voltage hold down circuit check.

After repair of the high voltage hold down circuit, this circuit shall be checked to operate correctly.

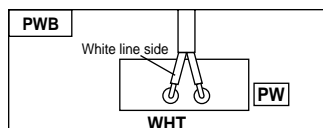
See item "How to check the high voltage hold down circuit".

This mark shows a fast operating fuse, the letters indicated below show the rating.



POWER CORD REPLACEMENT WARNING

Connecting the white line side of power cord to "WHT" character side.



SERVICE ADJUSTMENTS

ADJUSTMENT PREPARATION

1. You can make the necessary adjustments for this unit with either the remote control unit or with the adjustment equipment and parts as given below.
2. Adjustment with the remote control unit is made on the basis of the initial setting values, however, the new setting values which set the screen to its optimum condition may differ from the initial settings.
3. Make sure that AC power is turned on correctly.
4. Turn on the power for the set and test equipment before use, and start the adjustment procedures after waiting at least 30 minutes.
5. Unless otherwise specified, prepare the most suitable reception or input signal for adjustment.
6. Never touch any adjustment parts, which are not specified in the list for this adjustment-variable resistors, transformers, capacitors, etc.
7. Presetting before adjustment.

Unless otherwise specified in the adjustment instructions, preset the following functions with the remote control unit.

- User mode setting position

VIDEO STATUS	STANDARD
HYPERSURROUND	OFF
BASS, TREBLE, BALANCE	CENTER
TINT, COLOR, PICTURE, BRIGHT, DETAIL	CENTER

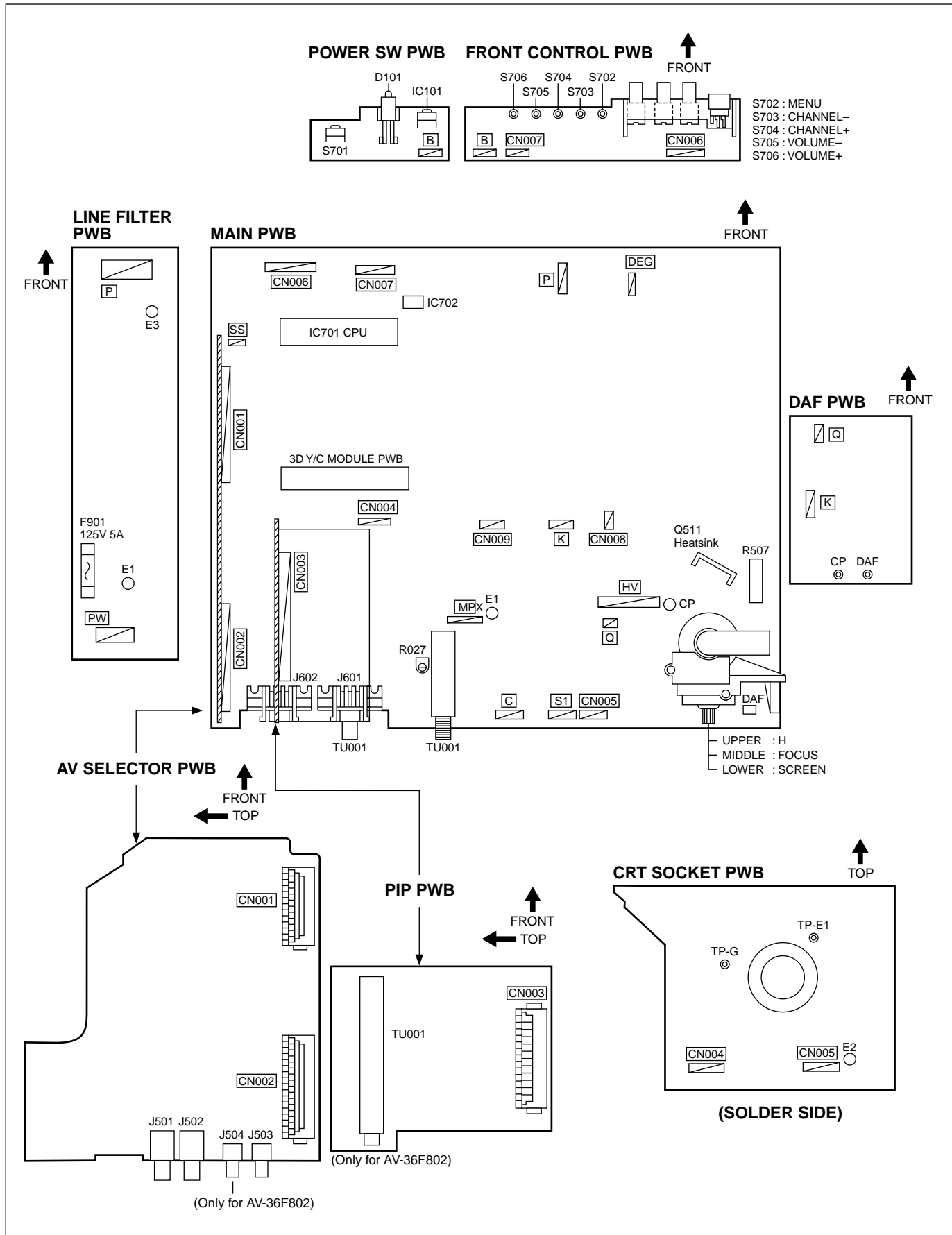
MEASURING INSTRUMENT

1. DC voltmeter(or digital voltmeter)
2. Oscilloscope
3. Signal generator (Pattern generator) [NTSC]
4. Remote control unit
5. TV audio multiplex signal generator
6. Frequency counter
7. Resistor (1M Ω)

ADJUSTMENT ITEMS

- Check of B1 POWER SUPPLY
- RF AGC adjustment
- FOCUS adjustment
- WHITE BALANCE adjustment
 - WHITE BALANCE (Low Light) adjustment
 - WHITE BALANCE (High Light) adjustment
 - PIP HIGH LIGHT WHITE BALANCE Adjustment [Only for AV-36F802]
- BRIGHT adjustment
 - SUB BRIGHT adjustment
- CONTRAST adjustment
 - SUB CONTRAST adjustment
- DEFLECTION adjustment
 - V CENTER and TRAPEZIUM adjustment
 - V SIZE and V LINEARITY adjustment
 - H SIZE and H POSITION adjustment
 - SIDE PIN and CORNER PIN adjustment
 - PIP DISPLAY POSITION adjustment [Only for AV-36F802]
- CHROMA adjustment
 - SUB COLOR adjustment
 - SUB TINT adjustment
- MTS circuit adjustment
 - INPUT LEVEL check
 - STEREO VCO adjustment
 - SAP VCO adjustment
 - FILTER check
 - SEPARATION adjustment
- PURITY and CONVERGENCE adjustments
 - PURITY adjustment
 - STATIC CONVERGENCE adjustment
 - DYNAMIC CONVERGENCE adjustment

ADJUSTMENT LOCATIONS



BASIC OPERATION OF SERVICE MENU

1. TOOL OF SERVICE MENU OPERATION

Operate the SERVICE MENU with the REMOTE CONTROL UNIT.

2. SERVICE MENU ITEMS

In general, basic setting (adjustments) items or verifications are performed in the SERVICE MENU.

- PICTURE This sets the setting values (adjustment values) of the VIDEO/CHROMA and DEFLECTION circuits.
- SOUND This sets the setting values (adjustment values) of the AUDIO circuit.
- THEATER This is used when the THEATER MODE is adjusted.
- OTHERS This is used when the OTHERS MODE is adjustment.
- PIP This sets the setting values (adjustment values) of the PIP circuit. **[Only for AV-36F802]**
- LOW LIGHT This sets the setting values (adjustment values) of the WHITE BALANCE circuit.
- HIGH LIGHT This sets the setting values (adjustment values) of the WHITE BALANCE circuit.
- RF AFC This is used when the RF AFC MODE is verified. **[Do not adjust/Only for AV-36F702]**
- RF AFC1 This is used when the RF AFC1 MODE is verified. **[Do not adjust/Only for AV-36F802]**
- RF AFC2 This is used when the RF AFC2 MODE is verified. **[Do not adjust/Only for AV-36F802]**
- VCO (CW) This is not used for service.
- I2C BUS CTRL This is used when ON/OFF of the I2C BUS CTRL is set. **[Fixed ON]**

3. Basic Operations of the SERVICE MENU

(1) How to enter the SERVICE MENU.

Press **SLEEP TIMER** key and, while the indication of “**SLEEP TIMER 0 MIN.**” is being displayed, press **DISPLAY** key and **VIDEO STATUS** key on the remote control unit simultaneously to enter the **SERVICE MENU** screen ① shown in the next figure page.

(2) SERVICE MENU screen selection

Press the UP / DOWN key of the MENU to select any of the following items.
(The letters of the selected items are displayed in yellow.)

[AV-36F702]

- PICTURE
- THEATER
- SOUND
- OTHERS
- LOW LIGHT
- RF AFC
- VCO(CW)
- HIGH LIGHT
- I2C BUS CTRL

[AV-36F802]

- PICTURE
- THEATER
- PIP
- LOW LIGHT
- RF AFC1
- VCO(CW)
- SOUND
- OTHERS
- 3-D Y/C
- HIGH LIGHT
- RF AFC2
- I2C BUS CTRL

(3) Enter the any setting (adjustment) mode

[AV-36F702]

● PICTURE, SOUND and OTHERS mode

- 1) If select any of PICTURE, SOUND or OTHERS items, and the LEFT / RIGHT key is pressed from SERVICE MENU (MAIN MENU), the screen ② will be displayed as shown in figure page later.
- 2) Then the UP / DOWN key is pressed, the PICTURE mode screen ③ or the SOUND mode screen ④ or the OTHER mode screen ⑤ is displayed, and the PICTURE, SOUND or OTHERS setting can be performed.

[AV-36F802]

● PICTURE, SOUND, OTHERS and 3-D Y/C mode

- 1) If select any of PICTURE, SOUND, OTHERS or 3-D Y/C items, and the LEFT / RIGHT key is pressed from SERVICE MENU (MAIN MENU), the screen ② will be displayed as shown in figure page later.
- 2) Then the UP / DOWN key is pressed, the PICTURE mode screen ③ or the SOUND mode screen ④ or the OTHER mode screen ⑤ or the 3-D Y/C mode screen ⑥ is displayed, and the PICTURE, SOUND, OTHERS or 3-D Y/C setting can be performed.

● PIP mode [Only for AV-36F802]

- 1) If select the PIP item, and the LEFT/RIGHT key is pressed from SERVICE MENU (MAIN MENU), the screen ⑥ will be displayed as shown in figure page later.
- 2) Then the UP/DOWN key is pressed, the PIP mode screen ⑦ is displayed, and the PIP setting can be performed.

[AV-36F702]

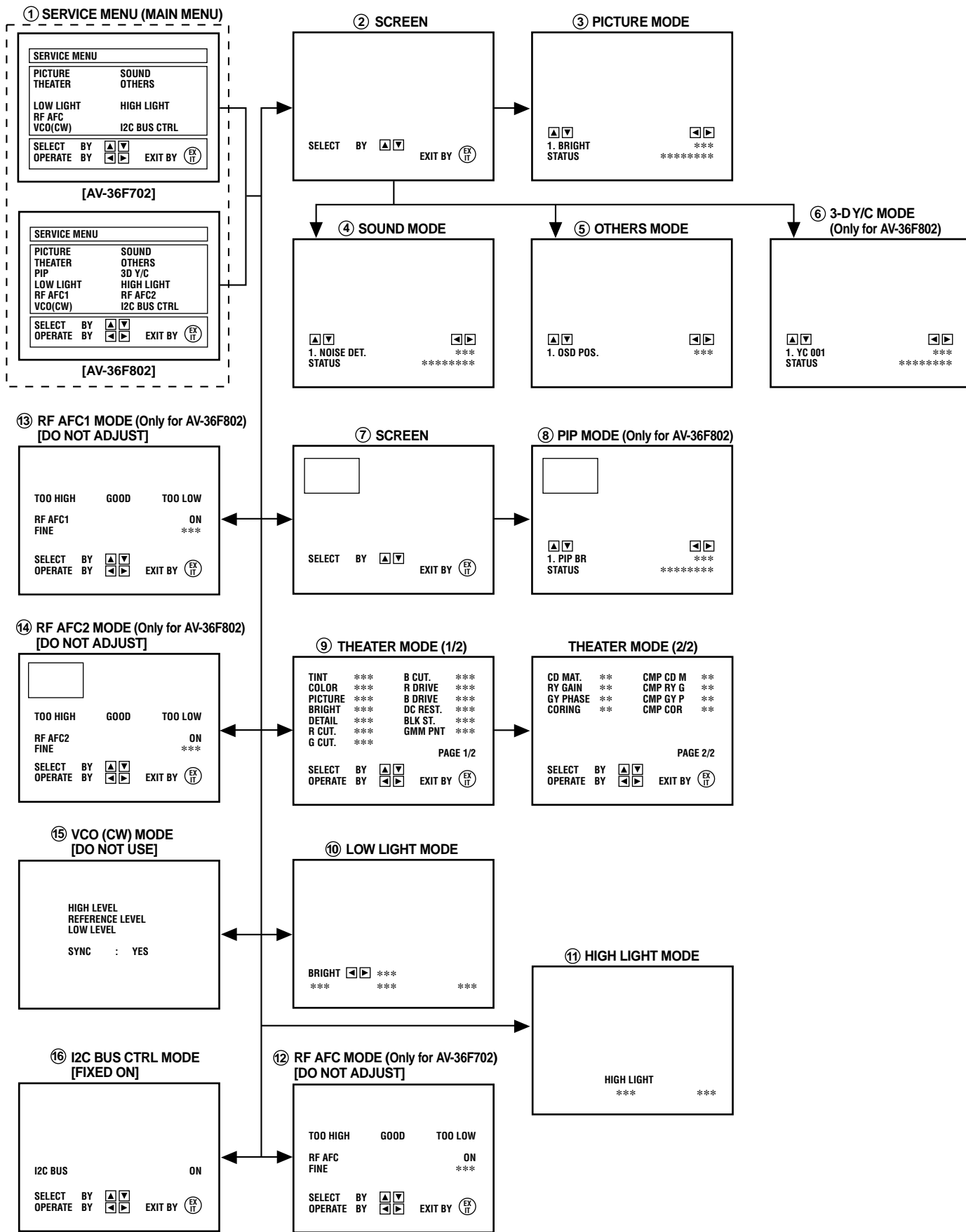
● THEATER, LOW LIGHT, HIGH LIGHT, RF AFC, VCO(CW) and I2C BUS CTRL mode

- 1) If select any of THEATER / LOW LIGHT / HIGH LIGHT / RF AFC / VCO (CW) / I2C BUS CTRL items, and the LEFT / RIGHT key is pressed from SERVICE MENU (MAIN MENU), the screens ⑨ ⑩ ⑪ ⑫ ⑮ ⑯ will be displayed as shown in figure page later.
- 2) Then the settings or verifications can be performed.

[AV-36F802]

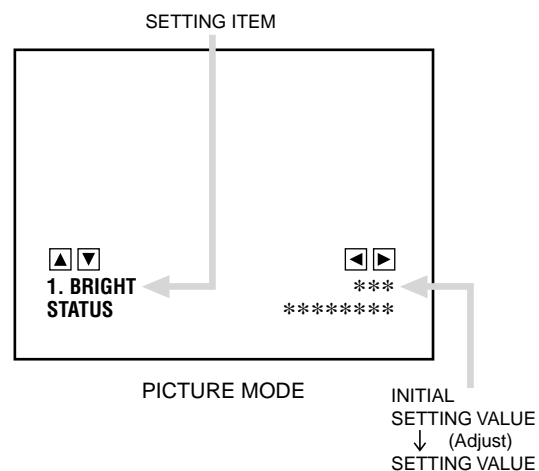
● THEATER, LOW LIGHT, HIGH LIGHT, RF AFC1, RF AFC2, VCO(CW) and I2C BUS CTRL mode

- 1) If select any of THEATER / LOW LIGHT / HIGH LIGHT / RF AFC1 / RF AFC2 / VCO (CW) / I2C BUS CTRL items, and the LEFT / RIGHT key is pressed from SERVICE MENU (MAIN MENU), the screens ⑨ ⑩ ⑪ ⑬ ⑭ ⑮ ⑯ will be displayed as shown in figure page later.
- 2) Then the settings or verifications can be performed.



(4) Setting method

- 1) UP / DOWN key of the MENU
Select the SETTING ITEM.
- 2) LEFT / RIGHT key of the MENU
Setting (adjust) the SETTING VALUE of the SETTING ITEM.
When the key is released the SETTING VALUE will be stored (memorized).
- 3) EXIT key
Returns to the previous screen.



(5) Releasing SERVICE MENU

- 1) After returning to the SERVICE MENU upon completion of the setting (adjustment) work, press the EXIT key again.

★ The settings for LOW LIGHT and HIGH LIGHT are described in the WHITE BALANCE page of ADJUSTMENT.

INITIAL SETTING VALUE OF SERVICE MENU

1. Adjustment of the SERVICE MENU is made on the basis of the initial setting values; however, the new setting values which set the screen in its optimum condition may differ from the initial setting.
2. Do not change the initial setting values of the setting (Adjustment) items not listed in "ADJUSTMENT".

● PICTURE MODE

☆ The four setting items in the video mode No.6 EXT BRI., No.7 EXT PIC., No.8 EXT COL. and No.9 EXT TINT are linked to the items in the TV MODE No.1 BRIGHT, No.2 PICTURE, No.3 COLOR and No.4 TINT, respectively. When the setting items in the TV mode are adjusted, the values in the setting items in the video mode are revised automatically to the same values in the TV mode.(The initial setting values given in () are off-set values.)

☆ When the four items (No.6, 7, 8 and 9) are adjusted in the video mode, the setting values in each item are revised independently.

No.	Setting (Adjustment) item	Variable range	Initial setting value	Remark
1	BRIGHT	000 — 127	063	
2	PICTURE	000 — 127	070	
3	COLOR	000 — 127	072	
4	TINT	000 — 127	063	
5	TV DETAIL	000 — 063	050	AV-36F702
6	TV DETAIL	000 — 063	045	AV-36F802
6	EXT BRIGHT	±025	±000	
7	EXT PICT.	±025	+002	
8	EXT COLOR	±025	±000	
9	EXT TINT	±025	±000	
10	EXT DETAIL	000 — 063	050	AV-36F702
	EXT DETAIL	000 — 063	045	AV-36F802
11	CMP BRIGHT	±025	±000	
12	CMP PICT.	±025	±000	
13	CMP COLOR	000 — 127	068	
14	CMP TINT	000 — 127	068	
15	CMP DETAIL	000 — 063	050	
16	CMP R CUT	±025	-011	
17	CMP G CUT	±025	±000	
18	CMP B CUT	±025	-001	
19	CMP R DRV	±025	±000	
20	CMP B DRV	±025	±000	
21	WPL	000 / 001	001	
22	B. B. SW	000 / 001	000	
23	C TRAP	000 / 001	000	
24	CORING	000 / 001	000	AV-36F702
	CORING	000 / 001	001	AV-36F802
25	CMP CORING	000 / 001	001	
26	TV SHARPF	000 / 001	001	
27	EXT SHARPF	000 / 001	001	
28	CMP SHARPF	000 / 001	001	
29	RGB CONT	000 — 063	031	
30	TV ID SENS	000 / 001	000	
31	EXT ID SEN	000 / 001	001	
32	F ID	000 / 001	000	
33	Y MUTE	000 / 001	000	
34	AUDIO ATT	000 — 127	127	
35	SUB CONT	000 — 015	008	

No.	Setting (Adjustment) item	Variable range	Initial setting value	Remark
36	R Y GAIN	000 / 001	001	
37	CMP R Y GA	000 / 001	001	
38	G Y PHASE	000 / 001	000	
39	CMP G Y PH	000 / 001	000	
40	CD MATRIX	000 — 003	003	
41	CMP CD MAT	000 — 003	002	
42	BLACK ST	000 — 003	001	
43	DC REST	000 — 003	001	
44	COLOR GMM	000 / 001	000	
45	UV/CBCR	000 / 001	001	
46	AT FLESH	000 / 001	000	
47	ABL GAIN	000 — 003	000	
48	ABL ST PNT	000 — 003	003	
49	RGB ABCL	000 / 001	001	
50	TV BPF TOF	000 / 001	000	
51	EXT BPF TOF	000 / 001	000	
52	GMM PNT	000 — 003	003	
53	SVM GAIN	000 — 003	002	
54	CMP SVM GA	000 — 003	002	
55	SVM PHASE	000 / 001	000	
56	AUDIO SW	000 / 001	000	
57	BUZZ	000 / 001	000	
58	IF FREQ	000 / 001	000	
59	RF AGC	000 — 063	045	
60	AFT MUTE	000 / 001	000	
61	AFT SENS	000 / 001	001	
62	R/G DRV SW	000 / 001	001	
63	BLK SW	000 / 001	000	
64	V S COR	000 — 015	010	
65	V LIN	000 — 015	005	
66	V SIZE	000 — 127	063	
67	V AGC	000 / 001	000	
68	V CENTER	000 — 063	052	
69	TV AFC	000 — 003	000	
70	EXT AFC	000 — 003	002	
71	V POSI	000 — 007	000	
72	H POSI	000 — 031	020	
73	H SIZE	000 — 063	028	
74	TV V FREQ	000 — 003	000	
75	EXT V FREQ	000 — 003	003	
76	SIDE PIN	000 — 063	025	
77	STAND BY	000 / 001	000	
78	TRAPEZ	000 — 063	035	
79	V RAMP REF	000 / 001	001	
80	V 48HZ	000 / 001	000	
81	V EHT	000 — 007	000	
82	TOP PIN	000 — 031	012	

No.	Setting (Adjustment) item	Variable range	Initial setting value	Remark
83	H EHT	000 — 007	000	
84	BTM PIN	000 — 031	011	
85	V BLK LOW	000 — 003	000	
86	V BLK UP	000 — 003	000	
87	CAPTION IN	000 / 001	000	
88	H BLK	000 / 001	000	
89	SCREEN	000 / 001	000	
90	ACB SW	000 / 001	000	
91	ACB PULSE	000 — 015	007	
92	OVER MODU	000 / 001	001	
93	CB/CR_FIL	000 / 001	001	
94	TEST	000 — 255	128	
95	RF S/N TY	000 — 001	002 (36F702) / 001 (36F802)	
96	EXT S/N TY	000 — 002	002 (36F702) / 001 (36F802)	
97	RF SN YC E	000 — 255	005	
98	RF SN YC F	000 — 255	016	
99	RF SN YC G	000 — 063	032	
100	RF SN YC H	000 — 255	025	
101	EX SN YC E	000 — 255	005	
102	EX SN YC F	000 — 255	016	
103	EX SN YC G	000 — 063	032	
104	EX SN YC H	000 — 255	025	
105	RF SN VC 1	000 — 063	000	
106	RF SN VC 2	000 — 063	007	
107	RF SN VC 3	000 — 063	014	
108	RF SN VC 4	000 — 063	021	
109	EX SN VC 1	000 — 063	000	
110	EX SN VC 2	000 — 063	007	
111	EX SN VC 3	000 — 063	014	
112	EX SN VC 4	000 — 063	021	
113	COR LEVEL	000 — 003	003	
114	VNR CHK	000 — 255	003	
115	YC SN TIME	000 — 255	005	
116	VC SN TIME	000 — 255	005	
117	VM DATA A	±127	+008	
118	VM DATA B	±127	-004	
119	VM DATA C	±127	-016	
120	VM DATA D	000 / 001	001	
121	VC SN STOP	000 — 255	010	
122	CH MUTE	000 / 001	000	
123	VM OFF TY	000 / 001	000	
124	VC VM OFF	000/001	001	
125	YC VM OFF	000 — 255	255	
126	F LOCK	000 — 002	002	
127	VF LOCK EX	000/001	000	
128	PURI RGB	000 — 063	031	
129	PURI BCK	000/001	000	

● SOUND MODE

No.	Setting (Adjustment) item	Variable range	Initial setting value	Remark
1	NOISE DET.	000 / 001	001	
2	IN LEVEL	000 — 063	025	
3	FH MONITOR	000 / 001	000	
4	STEREO VCO	000 — 063	030	
5	PILOT CAN.	000 / 001	000	
6	FILTER	000 — 063	030	
7	LOW SEP.	000 — 063	028	
8	HI SEP.	000 — 063	025	
9	5FH MON.	000 / 001	000	
10	SAP VCO	000 — 063	003	
11	IN GAIN	000 / 001	000	
12	FIL. OFFSET	000 — 010	000	
13	BBE BASS	±015	+001	
14	BBE TRE	±015	-001	

● THEATER MODE

Setting (Adjustment) item	Variable range	Initial setting value	Remark
TINT	±20	-06	
COLOR	±20	-03	
PICTURE	±50	-15	
BRIGHT	±20	±00	
DETAIL	±20	+03	
R CUTOFF	±20	±00	
G CUTOFF	±20	±00	
B CUTOFF	±20	±00	
R DRIVE	±99	+07	
B DRIVE	±99	-25	
DC REST.	00 — 03	01	
BLK ST.	00 — 03	00	
GMM PNT	00 — 03	01	
CD MATRIX	00 — 03	01	
RY GAIN	00 / 01	01	
GY PHASE	00 / 01	00	
CORING	00 / 01	01	
CMP CD M	00 — 03	01	
CMP RY G	00 / 01	01	
CMP GY P	00 / 01	00	
CMP COR	00 / 01	01	

● OTHERS MODE

No.	Setting (Adjustment) item	Variable range	Initial setting value	Remark
1	OSD POS.	000 — 007	002	
2	CCD POS.	000 — 015	003	
3	EOSEL	000 / 001	000	
4	MENU COLOR	000 — -030	-010	
5	MENU PICT.	000 — -030	-010	
6	MENU BRI.	000 — -030	-010	

● PIP MODE [Only for AV-36F802]

No.	Setting (Adjustment) item	Variable range	Initial setting value	Remark
1	PIP BR	000 — 015	005	
2	PIP PICT	000 — 075	045	
3	PIP TINT	000 — 063	036	
4	PIP COL	000 — 015	010	
5	P R CUT	000 — 015	003	
6	P G CUT	000 — 015	000	
7	P B CUT	000 — 015	002	
8	P R DR	000 — 255	052	
9	P G DR	000 — 255	055	
10	P B DR	000 — 255	060	
11	LEFT POS.	000 — 255	012	
12	RIGHT POS.	000 — 255	026	
13	UPPER POS.	000 — 127	012	
14	LOWER POS.	000 — 127	011	
15	PICT LOCK	000 / 001	001	
16	SELDEL	000 — 007	000	
17	AGCFIX	000 / 001	001	
18	AGCADST	000 / 001	000	
19	AGC	000 — 015	007	
20	VSPDEL	000 — 031	000	
21	VSPISQ	000 / 001	001	
22	YCOR	000 / 001	001	
23	XFREQF	000 / 001	001	
24	WTCHDG	000 / 001	001	
25	COLON	000 / 001	000	
26	ACQNEW	000 / 001	000	
27	DSTDET	000 / 001	001	
28	CRIBEOK	000 / 001	000	
29	FCBEOK	000 / 001	000	
30	NOCRID	000 / 001	000	
31	NONSED	000 / 001	000	

● 3-D Y/C MODE [Only for AV-36F802]

No.	Setting (Adjustment) item	Variable range	Initial setting value	Remark
1	YC 001	000 ~ 003	001	
2	YC 002	000 ~ 003	001	
3	YC 003	000 ~ 003	001	
4	YC 004	000 ~ 003	000	
5	YC 005	000 ~ 003	000	
6	YC 006	000 ~ 003	000	
7	YC 007	000 ~ 003	003	
8	YC 008	000 ~ 003	000	
9	YC 009	000 ~ 003	001	
10	YC 010	000 ~ 003	000	
11	YC 011	000 ~ 007	004	
12	YC 012	000 ~ 007	002	
13	YC 013	000 ~ 015	002	
14	YC 014	000 ~ 015	010	
15	YC 015	000 ~ 015	002	
16	YC 016	000 ~ 015	004	
17	YC 017	000 / 001	000	
18	YC 018	000 / 001	000	
19	YC 019	000 ~ 003	002	
20	YC 020	000 / 001	000	
21	YC 021	000 / 001	000	
22	YC 022	000 ~ 003	002	
23	YC 023	000 / 001	000	
24	YC 024	000 / 001	000	
25	YC 025	000 / 001	000	
26	YC 026	000 ~ 003	000	
27	YC 027	000 ~ 003	001	
28	YC 028	000 ~ 003	001	
29	YC 029	000 ~ 003	001	
30	YC 030	000 ~ 003	001	
31	YC 031	000 ~ 003	002	
32	YC 032	000 / 001	000	
33	YC 033	000 ~ 007	000	
34	YC 034	000 ~ 015	000	
35	YC 035	000 ~ 007	002	
36	YC 036	000 ~ 031	015	
37	YC 037	000 ~ 003	000	
38	YC 038	000 ~ 015	009	
39	YC 039	000 ~ 003	001	
40	YC 040	000 ~ 003	001	
41	YC 041	000 / 001	000	
42	YC 042	000 / 001	000	
43	YC 043	000 / 001	000	
44	YC 044	000 / 001	001	
45	YC 045	000 ~ 015	003	
46	YC 046	000 ~ 015	012	
47	YC 047	000 ~ 015	008	

No.	Setting (Adjustment) item	Variable range	Initial setting value	Remark
48	YC 048	000 ~ 015	004	
49	YC 049	000 ~ 015	010	
50	YC 050	000 / 001	001	
51	YC 051	000 / 001	001	
52	YC 052	000 ~ 003	000	
53	YC 053	000 / 001	000	
54	YC 054	000 / 001	001	
55	YC 055	000 / 001	001	
56	YC 056	000 / 001	001	
57	YC 057	000 ~ 015	000	
58	YC 058	000 / 001	000	
59	YC 059	000 / 001	001	
60	YC 060	000 ~ 003	000	
61	YC 061	000 ~ 015	000	
62	YC 062 DBL	000 ~ 007	002	
63	YC 063 N/A	000 ~ 015	002	
64	YC 064 N/A	000 ~ 015	004	
65	YC 065 N/A	000 ~ 015	002	
66	YC 066 N/A	000 ~ 015	004	
67	YC 067	000 / 001	000	
68	YC 068	000 / 001	000	
69	YC 069	000 / 001	000	
70	YC 070 FIX	000 ~ 003	000	
71	YC 071	000 / 001	000	
72	YC 072	000 / 001	000	
73	YC 073	000 / 001	001	
74	YC 074 FIX	000 / 001	000	
75	YC 075 FIX	000 / 001	000	
76	YC 076	000 / 001	001	
77	YC 077 FIX	000 / 001	000	
78	YC 078 FIX	000 / 001	000	
79	YC 079 FIX	000 ~ 007	005	
80	YC 080 FIX	000 ~ 015	000	
81	YC 081 FIX	000 ~ 015	008	
82	YC 082 FIX	000 ~ 015	004	
83	YC 083 FIX	000 ~ 015	004	
84	YC 084 DBL	000 ~ 255	112	
85	YC 085 DBL	000 ~ 255	008	
86	YC 086	000 / 001	001	
87	YC 087	000 ~ 003	003	
88	YC 088	000 / 001	001	
89	YC 089	000 / 001	000	
90	YC 090	000 / 001	000	
91	YC 091	000 / 001	000	
92	YC 092 N/A	000 / 001	000	
93	YC 093 N/A	000 / 001	000	
94	YC 094 DBL	000 ~ 003	001	

No.	Setting (Adjustment) item	Variable range	Initial setting value	Remark
95	YC 095 DBL	000 / 001	001	
96	YC 096 DBL	000 / 001	001	
97	YC 097 DBL	000 / 001	000	
98	YC 098 DBL	000 / 001	000	
99	YC 099 DBL	000 ~ 003	000	
100	YC 100 DBL	000 ~ 003	000	
101	YC 101 DBL	000 / 001	000	
102	YC 102 DBL	000 / 001	000	
103	YC 103 DBL	000 / 001	001	
104	YC 104 DBL	000 / 001	000	
105	YC 105 DBL	000 / 011	000	
106	YC 106 DBL	000 / 001	000	
107	YC 107 DBL	000 ~ 007	002	
108	3-D Y/C	000 / 001	001	

● LOW LIGHT MODE

Setting (Adjustment) item	Variable range	Initial setting value	Remark
R CUTOFF	0 — 255	085	
G CUTOFF	0 — 255	085	
B CUTOFF	0 — 255	085	

● HIGH LIGHT MODE

Setting (Adjustment) item	Variable range	Initial setting value	Remark
R DRIVE	0 — 127	060	
B DRIVE	0 — 127	060	

● RF AFC MODE [Only for AV-36F702]

Setting (Adjustment) item	Variable range	Initial setting value	Remark
RF AFC	ON / OFF	ON (DO NOT ADJUST)	
FINE	-77 — +77	± × ×	

● RF AFC1 MODE [Only for AV-36F802]

Setting (Adjustment) item	Variable range	Initial setting value	Remark
RF AFC1	ON / OFF	ON (DO NOT ADJUST)	
FINE	-77 — +77	± × ×	

● RF AFC2 MODE [Only for AV-36F802]

Setting (Adjustment) item	Variable range	Initial setting value	Remark
RF AFC2	ON / OFF	ON (DO NOT ADJUST)	
FINE	-77 — +77	± × ×	

● I2C BUS CTRL MODE

Setting (Adjustment) item	Variable range	Initial setting value	Remark
I2C BUS	ON/OFF	[FIXED ON] (DO NOT ADJUST)	

ADJUSTMENTS

B1 POWER SUPPLY

Item	Measuring instrument	Test point	Adjustment part	Description
Check of B1 POWER SUPPLY	DC Voltmeter	R507 C504 side (B1) Q511 heatsink (77)		<ol style="list-style-type: none"> 1. Receive a black-and-white signal. 2. Connect the DC Voltmeter to R507 C504 side (B1) and Q511 heatsink (77). 3. Confirm that the voltage is DC134V^{+2V}_{-2V}.

ADJUSTMENT OF RF AGC

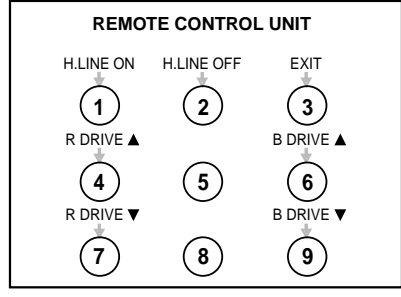
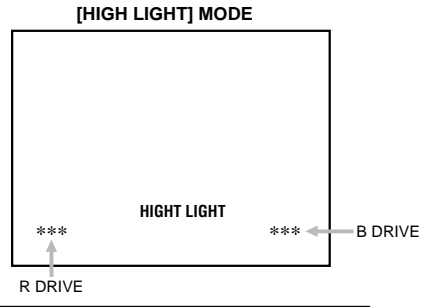
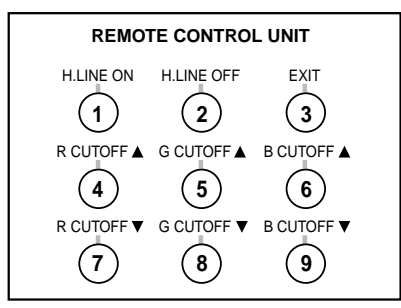
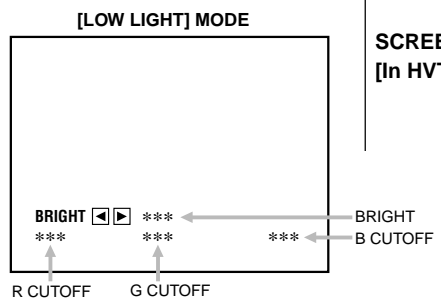
Item	Measuring instrument	Test point	Adjustment part	Description
RF AGC adjustment			No.59 RF AGC	<ol style="list-style-type: none"> 1. Receive a broadcast. 2. Select the No.59 RF AGC of the PICTURE MODE. 3. Press the MUTING key of the remote control unit and turn off color. 4. With the LEFT key of the remote control unit, get noise in the screen picture. (0 side of setting value) 5. Press the RIGHT key of the remote control unit and stop when noise disappears from the screen. 6. Change to other channels and make sure that there is no irregularity. 7. Press the MUTING key and get color out.

ADJUSTMENT OF FOCUS

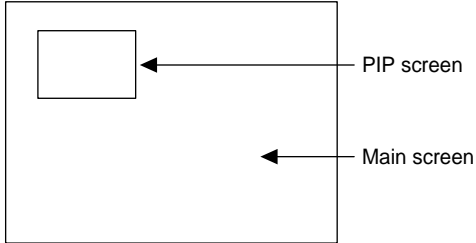
Item	Measuring instrument	Test point	Adjustment part	Description
FOCUS adjustment	Signal generator		FOCUS VR [In HVT] H VR [In HVT]	<p>Notes:</p> <ul style="list-style-type: none"> • Proceed to the following this adjustment after having completed the adjustments of B1 POWER SUPPLY, SUB BRIGHT and PICTURE. • Set VIDEO STATUS to "STANDARD". • The final adjustment of CONVERGENCE must be done after the FOCUS adjustment. (CONVERGENCE is changed by FOCUS adjustment.) <p>When makes difference by FOCUS adjustment, should be reconfirming PURITY adjustment.</p> <ol style="list-style-type: none"> 1. Receive a crosshatch signal. 2. While looking at the screen center, adjust the FOCUS VR so that the horizontal lines will be clear and in fine detail. 3. Adjust the H VR so that the vertical lines will be clear and in fine detail. 4. Make sure that the picture is in focus even when the screen gets darkened.

ADJUSTMENT OF WHITE BALANCE

Item	Measuring instrument	Test point	Adjustment part	Description
<p>WHITE BALANCE (LOW LIGHT) adjustment</p>	<p>Signal generator</p>		<p>No.1 BRIGHT</p> <p>R CUTOFF G CUTOFF B CUTOFF</p> <p>SCREEN VR [In HVT]</p>	<p>Note : Set VIDEO STATUS to "STANDARD".</p> <ol style="list-style-type: none"> 1. Receive a black-and-white signal.(Color off) 2. Select the [LOW LIGHT] MODE from the SERVICE MENU. 3. Set the initial setting value of BRIGHT is 063 with the LEFT / RIGHT key of the remote control unit. 4. Set the initial setting value of R CUTOFF, G CUTOFF and B CUTOFF is 085 with the (4) to (9) key of the remote control unit. 5. Display a single horizontal line by pressing the (1) key of the remote control unit. 6. Turn the screen VR all the way to the left. 7. Turn the screen VR gradually to the right from the left until either one of the red, blue or green colors appears faintly. 8. Adjust the two colors which did not appear until the single horizontal line that is displayed becomes white using the (4) to (9) keys of the remote control unit. 9. Turn the screen VR to where the single horizontal line glows faintly. 10. Press the (2) key to return to the regular screen. <p>* The (3) EXIT key is the cancel key for the WHITE BALANCE.</p>
<p>WHITE BALANCE (HIGH LIGHT) adjustment</p>	<p>Signal generator</p>		<p>R DRIVE B DRIVE</p>	<p>Notes:</p> <ul style="list-style-type: none"> • Proceed to the following this adjustment after having completed the adjustment of WHITE BALANCE LOW LIGHT. • Set VIDEO STATUS to "STANDARD". <ol style="list-style-type: none"> 1. Receive a black-and-white signal. (Color off) 2. Select the [HIGH LIGHT] MODE from the SERVICE MENU. 3. Set the initial setting value of R DRIVE and B DRIVE is 060 with the (4), (6), (7) and (9) keys of the remote control unit. 4. Adjust the screen until it becomes white using the (4), (6), (7) and (9) keys of the remote control unit. <p>* The (3) (EXIT) key is the cancel key for the WHITE BALANCE.</p>



Item	Measuring instrument	Test point	Adjustment part	Description
PIP WHITE BALANCE HIGH LIGHT adjustment [AV-36F802]	Signal generator		No.8 P R DR No.10 P B DR	<p>Notes:</p> <ul style="list-style-type: none"> • Proceed to the following this adjustment after having completed the adjustments of WHITE BALANCE LOW LIGHT and WHITE BALANCE HIGH LIGHT for the main picture. • Set VIDEO STATUS to "STANDARD". <ol style="list-style-type: none"> 1. Receive a black-and-white signal. (Color off) 2. Select the PIP MODE from the SERVICE MENU. 3. Then adjust the white color of the PIP screen using the No. 8 P R DR and the No. 10 P B DR of the PIP MODE so that it is the same brightness as the main screen.



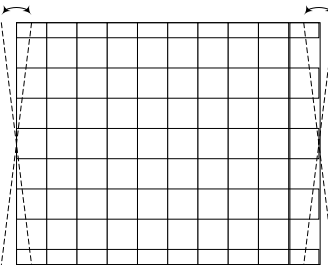
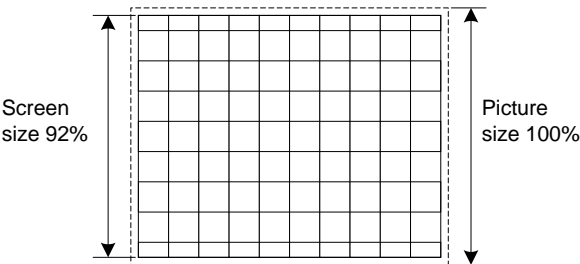
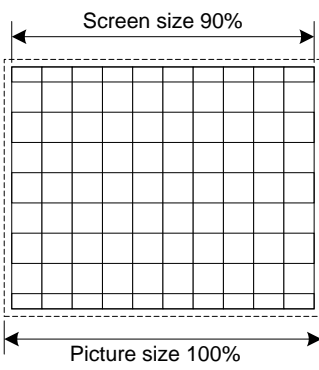
ADJUSTMENT OF BRIGHT

Item	Measuring instrument	Test point	Adjustment part	Description
SUB BRIGHT adjustment			No.1 BRIGHT	<p>Notes:</p> <ul style="list-style-type: none"> • Proceed to the following this adjustment after having completed the adjustments of WHITE BALANCE LOW LIGHT and WHITE BALANCE HIGH LIGHT. • Set VIDEO STATUS to "STANDARD". <ol style="list-style-type: none"> 1. Receive a broadcast. 2. Select the No.1 BRIGHT of the PICTURE MODE. 3. Set the initial setting value of the No.1 BRIGHT with the LEFT / RIGHT key of the remote control unit. 4. If the brightness is not best with the initial setting value, make fine adjustment of the No.1 BRIGHT until you get the optimum brightness.

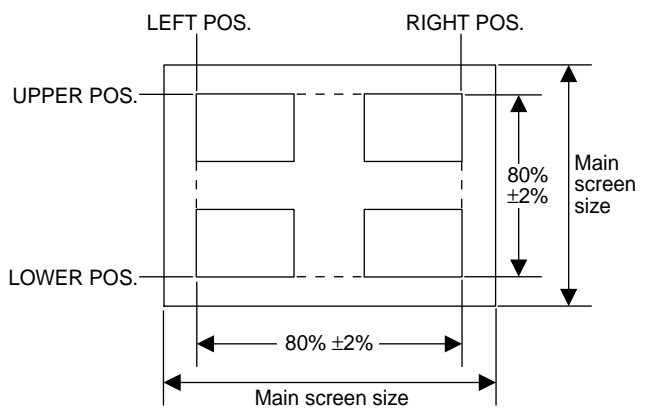
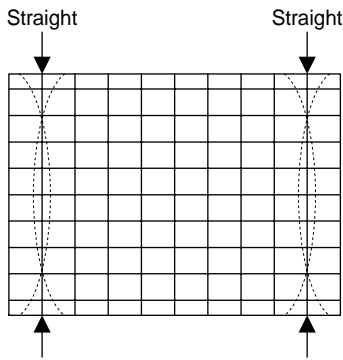
ADJUSTMENT OF CONTRAST

Item	Measuring instrument	Test point	Adjustment part	Description
SUB CONTRAST adjustment			No.2 PICTURE	<p>Notes:</p> <ul style="list-style-type: none"> • Proceed to the following this adjustment after having completed the adjustment of SUB BRIGHT. • Set VIDEO STATUS to "STANDARD". <ol style="list-style-type: none"> 1. Receive a broadcast. 2. Select the No.2 PICTURE of the PICTURE MODE. 3. Set the initial setting value of the No.2 PICTURE with the LEFT / RIGHT key of the remote control unit. 4. If the contrast is not best with the initial setting value, make fine adjustment of the No.2 PICTURE until you get the optimum contrast.

ADJUSTMENT OF DEFLECTION

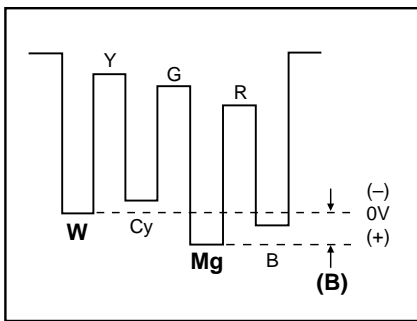
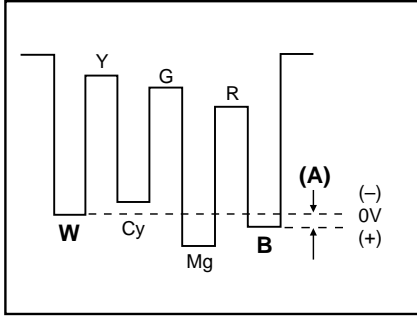
Item	Measuring instrument	Test point	Adjustment part	Description
<p>V CENTER and TRAPEZIUM adjustment</p> 	<p>Signal generator</p>		<p>No.68 V CENTER No.78 TRAPEZ</p>	<ol style="list-style-type: none"> 1. Receive a crosshatch signal. 2. Adjust the No.68 V CENTER of the PICTURE MODE to be the same between the CRT vertical center and crosshatch vertical center. 3. Adjust the No.78 TRAPEZ of the PICTUER MODE to be the vertical lines straight. 4. Confirm the vertical lines to be straight. If it is not straight, adjust to be straight at the No.78 TRAPEZ.
<p>V SIZE and V LINEARITY adjustment</p> 	<p>Signal generator</p>		<p>No.66 V SIZE No.65 V LIN</p>	<ol style="list-style-type: none"> 1. Receive a crosshatch signal. 2. Select the No.66 V SIZE of the PICTURE MODE to squeeze the laster. 3. Adjust the No.65 V LIN of the PICTURE MODE to be symmetrical. 4. Adjust the No.66 V SIZE until the vertical screen size is 92%.
<p>H SIZE and H POSITION adjustment</p> 	<p>Signal generator</p>		<p>No.73 H SIZE No.72 H POSI</p>	<p>Note: Proceed to the following this adjustment after having completed the adjustments of FOCUS, V CENTER, TRAPEZIUM, V-SIZE and V-LINEARITY.</p> <ol style="list-style-type: none"> 1. Receive a crosshatch signal. 2. Select the No.73 H SIZE of the PICTURE MODE. 3. Set the initial setting value of the No.73 H SIZE with the LEFT / RIGHT key of the remote control unit. 4. Adjust the No.73 H SIZE until the horizontal screen size is 90%. 5. Adjust the No.72 H POSI until the screen will be horizontally centered.

Item	Measuring instrument	Test point	Adjustment part	Description
SIDE PIN and CORNER PIN adjustment	Signal generator		No.76 SIDE PIN No.82 TOP PIN No.84 BTM PIN	<p>Note: Proceed to the following this adjustment after having completed the adjustments of FOCUS, V CENTER, TRAPEZIUM, V-SIZE and V-LINEARITY.</p> <ol style="list-style-type: none"> 1. Receive a crosshatch signal. 2. Adjust such that vertical 2nd lines from left and right to be straight at the No.76 SIDE PIN of the PICTURE MODE. 3. Adjust the end of vertical 2nd lines from left and right to be straight at the No.82 TOP PIN and the No.84 BTM PIN of the PICTURE MODE.
PIP DISPLAY POSITION adjustment [AV-36F802]			No.11 LEFT POS. No.12 RIGHT POS. No.13 UPPER POS. No.14 LOWER POS.	<p>Notes:</p> <ul style="list-style-type: none"> • Proceed to the following this adjustment after having completed the adjustments of V CENTER, TRAPEZIUM, V-SIZE, V-LINEARITY, H SIZE, H POSITION, SIDE PIN and CORNER PIN for the main picture. • Set VIDEO STATUS to "STANDARD". <ol style="list-style-type: none"> 1. Receive a broadcast. 2. Select the PIP MODE from the SERVICE MENU. 3. Then adjust the PIP screen size so that it occupies 80% ± 2% of the main screen area.



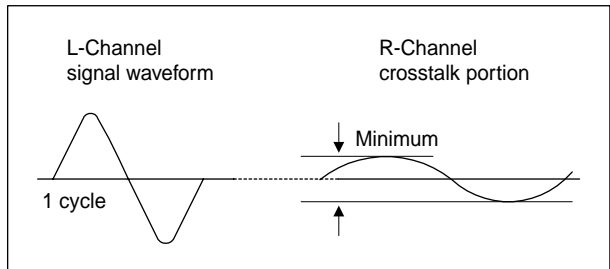
ADJUSTMENT OF CHROMA

Item	Measuring instrument	Test point	Adjustment part	Description
<p>SUB COLOR adjustment</p>	<p>Signal generator Oscilloscope Remote control unit</p>	<p>TP-B TP-E1 ($\overline{77}$) [CRT SOCKET PWB]</p>	<p>No.3 COLOR</p>	<p>Notes:</p> <ul style="list-style-type: none"> • Proceed to the following this adjustment after having completed the adjustment of CONTRAST. • Set VIDEO STATUS to "STANDARD". <p>[Method of adjustment without measuring instrument]</p> <ol style="list-style-type: none"> 1. Receive a broadcast. 2. Select the No.3 COLOR of the PICTURE MODE. 3. Set the initial setting value of the No.3 COLOR with the LEFT/RIGHT key of the remote control unit. 4. If the color is not the best with the Initial setting value, make fine adjustment of the No.3 COLOR until you get the optimum color. <p>Notes:</p> <ul style="list-style-type: none"> • Proceed to the following this adjustment after having completed the adjustment of CONTRAST. • Set VIDEO STATUS to "STANDARD". <p>[Method of adjustment using measuring instrument]</p> <ol style="list-style-type: none"> 1. Input the full field color bar signal (75% white). 2. Select the No.3 COLOR of the PICTURE MODE. 3. Set the initial setting value of the No.3. COLOR with the LEFT/RIGHT key of the remote control unit. 4. Connect the oscilloscope between TP-B and TP-E1. 5. Adjust COLOR and bring the value of (A) in the illustration to the voltage +26V (V_{W-B}).
<p>SUB TINT adjustment</p>	<p>Signal generator Oscilloscope Remote control unit</p>	<p>TP-B TP-E1 ($\overline{77}$) [CRT SOCKET PWB]</p>	<p>No.4 TINT</p>	<p>Notes:</p> <ul style="list-style-type: none"> • Proceed to the following this adjustment after having completed the adjustment of CONTRAST. • Set VIDEO STATUS to "STANDARD". <p>[Method of adjustment without measuring instrument]</p> <ol style="list-style-type: none"> 1. Receive a broadcast. 2. Select the No.4 TINT of the PICTURE MODE. 3. Set the initial setting value of the No.4 TINT with the LEFT/RIGHT key of the remote control unit. 4. If the tint is not the best with the initial setting value, make fine adjustment of the No.4 TINT until you get the optimum tint. <p>Notes:</p> <ul style="list-style-type: none"> • Proceed to the following this adjustment after having completed the adjustment of CONTRAST. • Set VIDEO STATUS to "STANDARD". <p>[Method of adjustment using measuring instrument]</p> <ol style="list-style-type: none"> 1. Input the full field color bar signal (75% white). 2. Select the No.4 TINT of the PICTURE MODE. 3. Set the initial setting value of the No.4 TINT with the LEFT/RIGHT key to the remote control unit. 4. Connect the oscilloscope between TP-B and TP-E1. 5. Adjust TINT and bring the value of (B) in the illustration to the voltage +14V (V_{W-Mg}).



ADJUSTMENT OF MTS CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
MTS INPUT LEVEL check			No.2 IN LEVEL	<ol style="list-style-type: none"> 1. Select the No.2 IN LEVEL of the SOUND MODE. 2. Verify that the No.2 IN LEVEL is set at its initial setting value.
MTS STEREO VCO adjustment	Signal generator Frequency counter	[MPX] Connector 2 pin AUDIO R 3 pin GND	No.3 FH MONITOR No.4 STEREO VCO	<p>Note: Menu "MTS" is set to "STEREO"</p> <ol style="list-style-type: none"> 1. Receive a RF signal (nonmodulated sound signal) from the antenna terminal. 2. Select the No.3 FH MONITOR of SOUND MODE, and change the setting value from 0 to 1. 3. Connect the Frequency Counter to pin 2 of [MPX] connector and GND (Pin 3 of [MPX] connector). 4. Select the No.4 STEREO VCO. 5. Set the initial setting value of the No.4 STEREO VCO with the LEFT/RIGHT key of the remote control unit. 6. Adjust the No.4 STEREO VCO so that the frequency counter will display 15.73kHz±0.1kHz. 7. Select the No.3 FH MONITOR of the SOUND MODE, and reset the setting value from 1 to 0.
MTS SAP VCO adjustment	Signal generator Frequency counter	[MPX] Connector 4 pin TP_952.5 3 pin GND 2 pin AUDIO_R	No.9 5FH MON. No.10 SAP VCO	<ol style="list-style-type: none"> 1. Receive a RF signal (non modulated sound signal) from the antenna terminal. 2. Connect between pin 4 of [MPX] connector and GND (Pin 3 of [MPX] connector) through 1MΩ Resistor. 3. Select the No.9 5FH MON. of the SOUND MODE, and reset the setting value from 0 to 1. 4. Connect the Frequency Counter to pin 2 of [MPX] connector and GND (Pin 3 of [MPX] connector) . 5. Select the No.10 SAP VCO. 6. Set the initial setting value of the No.10 SAP VCO with the LEFT/RIGHT key of the remote control unit. 7. Adjust the No.10 SAP VCO so that the frequency counter will display 78.67kHz±0.5kHz. 8. Select the No.9 5FH MON. of the SOUND MODE, and reset the setting value from 1 to 0.
MTS FILTER check			No.6 FILTER	<ol style="list-style-type: none"> 1. Select the No.6 FILTER of the SOUND MODE. 2. Verify that the No.6 FILTER is set at its initial setting value.
MTS SEPARATION adjustment	TV audio multiplex signal generator Oscilloscope	[MPX] Connector 1 pin AUDIO_L 2 pin AUDIO_R 3 pin GND	No.7 LOW SEP. No.8 HI SEP.	<p>Note: Menu "MTS" is set to "STEREO"</p> <ol style="list-style-type: none"> 1. Input a stereo L signal (300Hz) from the TV audio multiplex signal generator to the antenna terminal. 2. Connect an oscilloscope to pin 1 of [MPX] connector, and display one cycle portion of the 300Hz signal. 3. Change the connection of the oscilloscope to pin 2 of [MPX] connector, and enlarge the voltage axis. 4. Select the No.7 LOW SEP. of the SOUND MODE. 5. Set the initial setting value of the No.7 LOW SEP. with the LEFT/RIGHT key of the remote control unit. 6. Adjust the No.7 LOW SEP. so that the 300Hz signal level will become minimum. 7. Change the signal to 3kHz, and connect an oscilloscope to pin 1 of [MPX] connector. 8. Adjust the No.8 HI SEP. so that the 3kHz signal level will become minimum.

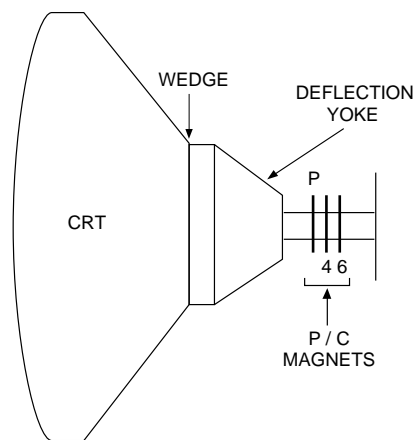


ADJUSTMENTS OF PURITY AND CONVERGENCE

Note: The final adjustment of CONVERGENCE must be done after the FOCUS adjustment. (CONVERGENCE is changed by FOCUS adjustment.)
When makes difference by FOCUS adjustment, should be reconfirming PURITY adjustment.

PURITY ADJUSTMENT

1. Demagnetize CRT with the demagnetizer.
2. Loosen the retainer screw of the deflection yoke.
3. Remove the wedges.
4. Input a green raster signal from the signal generator, and turn the screen to green raster.
5. Move the deflection yoke backward.
6. Bring the long lug of the purity magnets on the short lug and position them horizontally. (Fig.2)
7. Adjust the gap between two lugs so that the GREEN RASTER will come into the center of the screen. (Fig.3)
8. Move the deflection yoke forward, and fix the position of the deflection yoke so that the whole screen will become green.
9. Insert the wedge to the top side of the deflection yoke so that it will not move.
10. Input a crosshatch signal.
11. Verify that the screen is horizontal.
12. Input red and blue raster signals, and make sure that purity is properly adjusted.



• P/C MAGNETS

P : PURITY MAGNET
4 : 4 POLES (convergence magnets)
6 : 6 POLES (convergence magnets)

Fig. 1

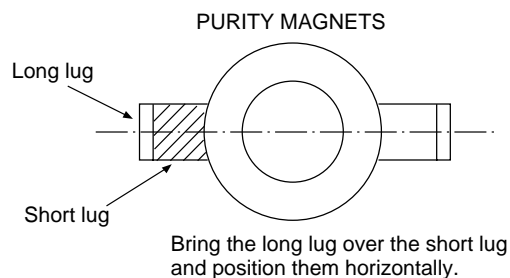


Fig. 2

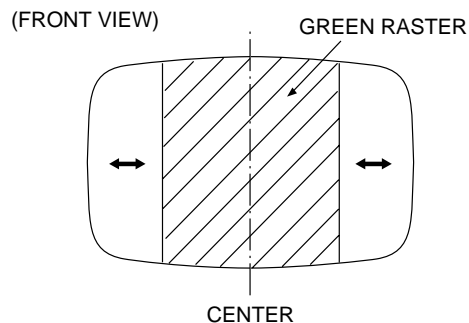


Fig. 3

STATIC CONVERGENCE ADJUSTMENT

1. Input a crosshatch signal.
2. Using 4-pole convergence magnets, overlap the red and blue lines in the center of the screen (Fig. 4) and turn them to magenta (red/blue).
3. Using 6-pole convergence magnets, overlap the magenta (red/blue) and green lines in the center of the screen and turn them to white.
4. Repeat 2 and 3 above, and make best convergence.

DYNAMIC CONVERGENCE ADJUSTMENT

1. Move the deflection yoke up and down and overlap the lines in the periphery. (Fig. 5)
 2. Move the deflection yoke left to right and overlap the lines in the periphery. (Fig. 6)
 3. Repeat 1 and 2 above, and make best convergence.
- After adjustment, fix the wedge at the original position.
Fasten the retainer screw of the deflection yoke.
Fix the 6 magnets with glue.

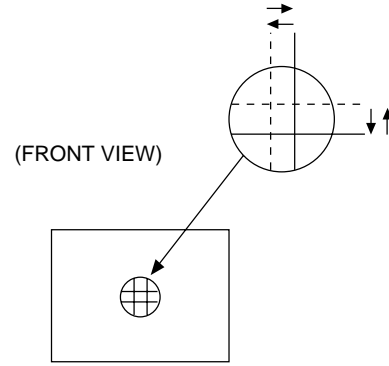


Fig. 4

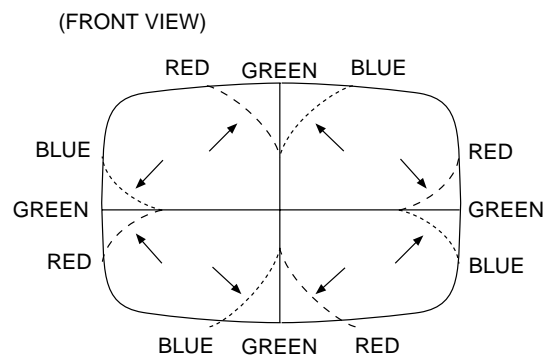


Fig. 5

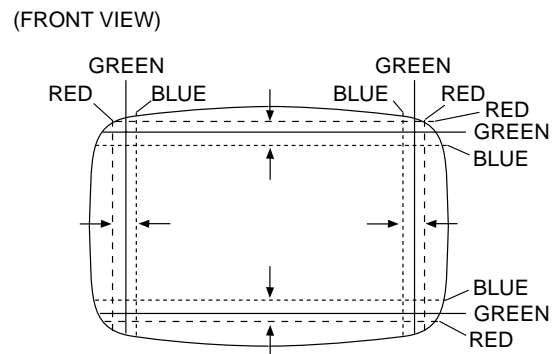


Fig. 6

HOW TO CHECK THE HIGH VOLTAGE HOLD DOWN CIRCUIT

1. HIGH VOLTAGE HOLD DOWN CIRCUIT

After repairing the high voltage hold down circuit shown in Fig. 1.
This circuit shall be checked to operate correctly.

2. CHECKING OF THE HIGH VOLTAGE HOLD DOWN CIRCUIT

- (1) Turn the POWER SW ON.
- (2) As shown in Fig. 1, set the resistor (between **S1** connector **2** & **3**).
- (3) Make sure that the screen picture disappears.
- (4) Temporarily unplug the power cord.
- (5) Remove the resistor (between **S1** connector **2** & **3**).
- (6) Again plug the power cord, make sure that the normal picture is displayed on the screen.

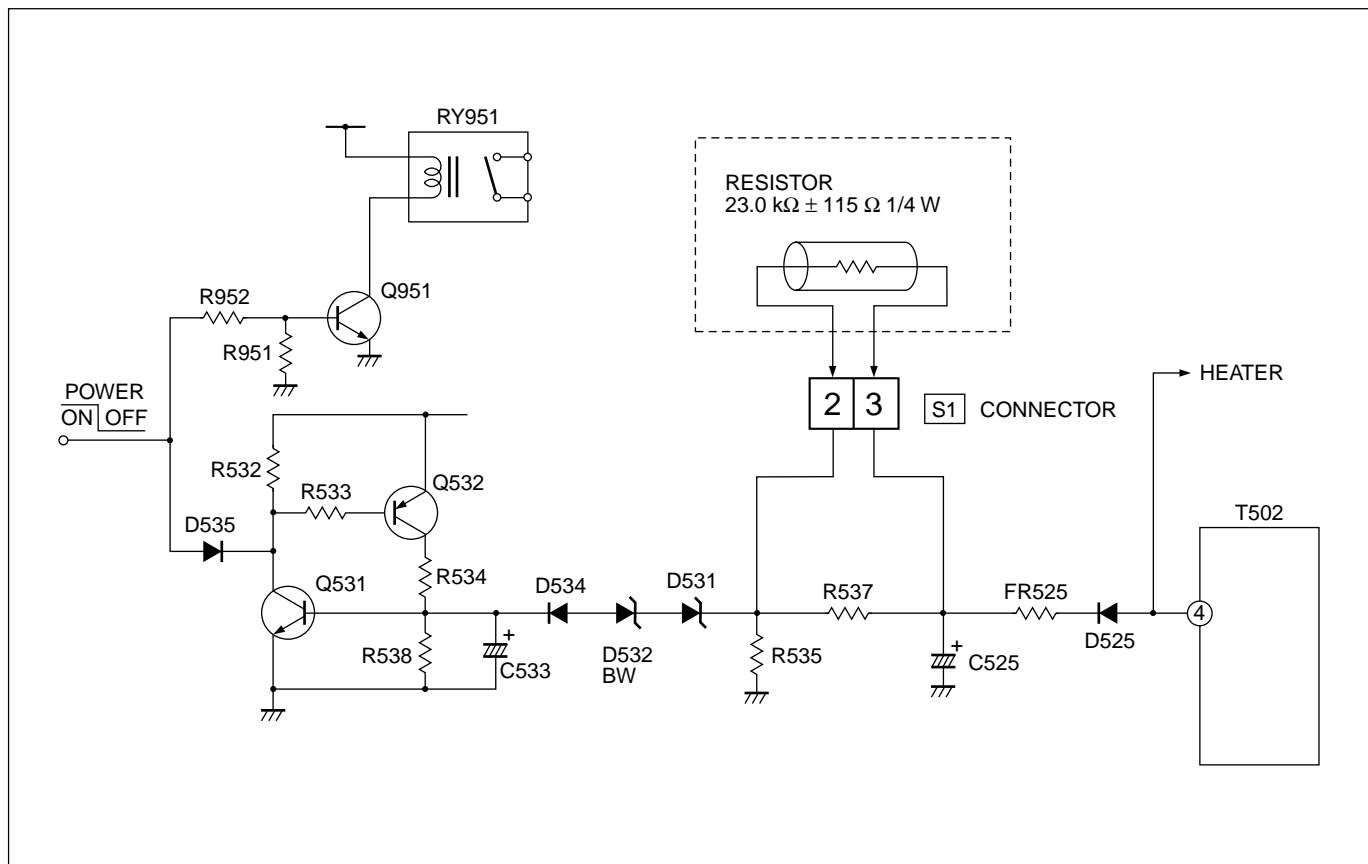


Fig. 1

SELF CHECK FUNCTIONS

1. Outline

This model has self check functions given below. When a malfunction has been detected, the POWER is turned off and the LED flashes to inform of the failure. The malfunction is detected by the signal input state of the control line connected to the microcomputer.

2. Self check items

Check item	Details of detection	Method of detection	State of malfunction
Over-current protector	Operation of B1 protector circuit.	The microcomputer detects at 1 second intervals. If NG is detected for more than 200 ms, a malfunction is interpreted.	When a malfunction has been detected, the POWER is turned off. While the POWER is being turned off, the power key of the remote controller is not operational until the power code is taken out and put in again.

3. Self check indicating function

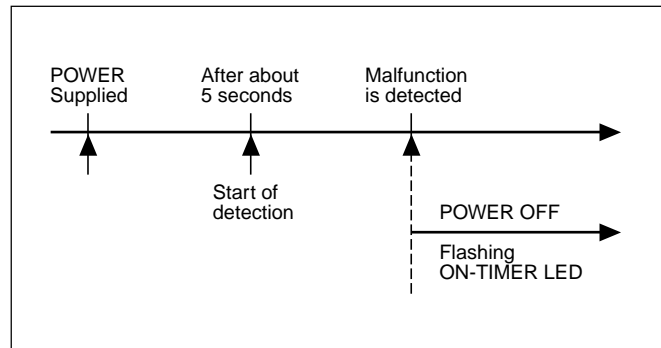
The self-check function begins detection about 5 seconds after power is supplied.

In the event a malfunction is detected, the power is cut off immediately.

At this time, the ON-TIMER LED flashes to inform of the malfunction.

[ON-TIMER LED indication]

The ON-TIMER LED flashes at 0.5 seconds intervals.



JVC SERVICE & ENGINEERING COMPANY OF AMERICA

DIVISION OF JVC AMERICAS CORP.

Head office :	1700 Valley Road, Wayne, New Jersey 07470	(973)317-5000
East Coast :	10 New Maple Avenue, Pine Brook, New Jersey 07058	(973)396-1000
Midwest :	705 Enterprise St. Aurora, Illinois 60504	(630)851-7855
West Coast :	5665 Corporate Avenue, Cypress, California 90630	(714)229-8011
Southwest :	10700 Hammerly, Suite 105, Houston, Texas 77043	(713)935-9331
Hawaii :	2969 Mapunapuna Place, Honolulu, Hawaii 96819	(808)833-5828
Southeast :	1500 Lakes Parkway, Lawrenceville, Georgia 30243	(770)339-2582

JVC CANADA INC.

Head office :	21 Finchdene Square Scarborough, Ontario M1X 1A7	(416)293-1311
Vancouver :	13040 Worster Court Richmond B.C. V6V 2B3	(604)270-1311

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