HISTORY

Model Name: KDF-E42A10/E50A10

SERVICE MANUAL

Part No. : 9-872-749-03

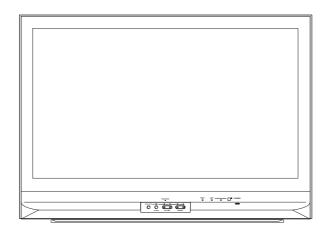
When clicking an item, it's detail is displayed.

Date	SUPP./CORR.	Description of SUP/COR	Change of main text
2005.6	_	NEW	_
2005.8	CORR1	Addition of LAMP XL-2400 (Page 72)	Yes
2005.10	CORR2	Deleted of LAMP BLOCK ASSY (Page 62)	Yes



SERVICE MANUAL MIX5 CHASSIS

MODEL	COMMANDER	DEST. CHASSIS NO.	<u>MODEL</u>	COMMANDER	DEST. CHASSIS NO.
KDF-E42A10	RM-YD003	USA			
KDF-E42A10	RM-YD003	CANADA			
KDF-E42A10	RM-YD003	MEXICO			
KDF-E50A10	RM-YD003	USA			
KDF-E50A10	RM-YD003	CANADA			
KDF-E50A10	RM-YD003	MEXICO			







RM-YD003

LCD PROJECTION TV



Specifications

Projection System	3 LCD Panels, 1 lens projection	n system		
LCD Panel	0.73 inch TFT LCD panel (1,280 · 720 pixels)			
Projection Lens	High Performance, large diameter hybrid lens F2.4			
Antenna	75-ohm external terminal for VHF/UHF			
Lamp	100W, XL-2400			
Television System	NTSC	American TV Standard		
	ATSC (8VSB terrestrial)	ATSC compliant 8VSB		
	QAM on cable	ANSI/SCTE 07 2000		
Visible Screen Size (Picture measured	KDF-E42A10: 42 inches			
diagonally)	KDF-E50A10: 50 inches			
Channel Coverage	Terrestrial (analog)	2-69		
	Cable TV (analog)	1-125		
	Terrestrial (digital)	2-69		
	Cable TV (digital)	1-135		
Number of Inputs/Outputs				
HDMI IN	Video	1080i, 720p, 480p, 480i		
	Audio	Two channel linear PCM 32, 44.1 and 48 kHz, 16, 20 and 24 bit		
Video (IN)	3 total (1 on side panel)	1 Vp-p, 75 ohms unbalanced, sync negative		
S Video (IN)	1	Y: 1 Vp-p, 75 ohms unbalanced, sync		
		negative		
		C: 0.286 Vp-p (Burst signal), 75 ohms		
Audio (IN)	5 total (1 on side panel)	500 mVrms (100% modulation)		
		Impedance: 47 kilohms		
Component Video Input	2 (Y PB/CB PR/CR)	Y: 1 Vp-p, 75 ohms unbalanced, sync		
		negative		
		P _B /C _B : 0.7 Vp-p, 75 ohms		
		Pr/Cr: 0.7 Vp-p, 75 ohms		
AUDIO (VAR/FIX) OUT	1	500 mVrms at the maximum volume setting		
		(Variable)		
		500 mVrms (Fixed)		
		Impedance (output): 2 kilohms		
		AUDIO OUT jacks are operable only when the TV's Speaker is set to 0 ff.		
RF Inputs	2	TV S Speaker is set to 0 ii.		
PC Input	1			
Digital Audio Optical Output		Optical Rectangular (1)		
(PCM/Dolby Digital)	1	Optical Rectangular (1)		
CableCARD Slot	PCMCIA Type I/II			
Speaker output	12 W + 12 W			
Power requirement	120 V, 60 Hz			
Power consumption	In use: 210 W			
	In standby: Less than 17 W			

Dimensions (W/H/D)	KDF-E42A10: 999 · 722 · 357 mm (39 ³ / ₈ · 28 ¹ / ₂ · 14 ¹ / ₈ inches) KDF-E50A10: 118 4 · 827 · 408 mm (46 ⁵ / ₈ · 32 ⁵ / ₈ · 16 ¹ / ₈ inches)
Mass	KDF-E42A10: 28 kg (61 lb. 12 oz.) KDF-E50A10: 33 kg (72 lb. 13 oz.)
Supplied Accessories	
Remote Control	RM-YD003
AA (R6) Batteries	2 supplied for remote control
Operating Instructions	1
Quick Setup Guide	1
Warranty Card	1
Product Registration Card	1

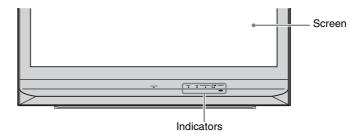
Opt	ional accessories:
	HDMI cable
	HDMI-to-DVI cable
	Component video cable
	S VIDEO cable
	A/V cable
	Audio cable
	Optical cable
	$TV\ Stand: (SU-RG11S\ for\ KDF-E42A10,\ SU-RG11M\ for\ KDF-E50A10)$
	Theatre Stand System: RHT-G2000
	Lamp : XL-2400
	The availability of optional accessories

depends on stock.

Design and specifications are subject to change without notice.

Non-metric weights and measures are approximate.

Indicators



The indicators show the current status of your TV. If there is a change in the condition or a problem with the TV, the indicators will flash or light up in the manner described below to let you know that it requires your attention.

Indicator	Flashing because
POWER/ STANDBY flashing	green: The lamp for the light source is preparing to turn on. When it is ready, it turns on. red: The lamp door or the lamp is not securely attached. The red indicator will continue to flash in intervals of three blinks at a time until the lamp door or the lamp is placed correctly. When the lamp door or the lamp is securely attached, the TV will turn on with green indicator.
LAMP indicator flashes	The projection lamp has burned out. Replace it with new one (see page 86).
TIMER indicator is lit	When one of the timers is set, the indicator will remain lit (will not flash) even when the TV is turned off.

Projection Lamp

Your TV uses a projection lamp as its light source. As with any lamp, it has lifespan and needs to be replaced when the Lamp indicator flashes or the screen becomes darker. Note the following:

- After turning on your TV, it may take a while (1 minute or less) before the picture appears.
- ☐ When the projection lamp wears out, the screen goes dark. Replace the lamp with a new Sony XL-2400 replacement lamp (not supplied).
- The light emitted from the lamp is quite bright when your TV is in use. To avoid eye discomfort or injury, do not look into the light housing when the power is on.

Replacing the Lamp

How to Replace the

Lamp

The projection lamp, which illuminates the picture, has a limited life.

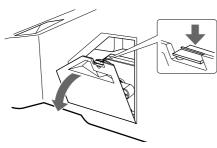
If the screen becomes dark, the color looks unusual, or the LAMP indicator on the front of the TV flashes, it is time to replace the lamp with a new one (not supplied).

/ WARNING Electric appliances can cause fire or high temperature, resulting in injury or death. Be sure to follow the instructions below. Use a Sony XL-2400 replacement lamp (not supplied) for replacement. Use of any other lamp may damage the TV. Do not remove the lamp for any purpose other than replacement. Doing so may cause injury or fire. Do not put flammable materials and metal objects inside the lamp receptacle of the TV after removing the lamp. Doing so may cause fire or electrical shock. Do not touch the lamp receptable once the lamp has been removed. When the lamp eventually burns out, you may hear a noticeable pop sound. This is normal and it is inherent to this type of lamp. In rare instances, the bulb may pop inside the lamp unit, but the lamp unit is designed to contain all of the broken glass pieces inside the lamp The lamps contain mercury. For proper disposal of the used lamps, follow and observe the local ordinances. See page 89. 1 Turn off the power on the main unit. Wait several minutes, then unplug the power cord. (The cooling fan will continue to operate for about two minutes after turning the power off.) Wait at least 30 minutes after unplugging the power cord to allow the lamp to cool down before replacing it. To avoid being burned, do not touch the lamp receptable once the lamp has been removed. Take the new lamp out of the box. Do not touch the glass portion of the new lamp. Do not shake the lamp. Vibration can damage the lamp or shorten its life.

Avoid touching the front glass of a new lamp or the glass of the lamp receptacle. This may reduce picture quality or lamp

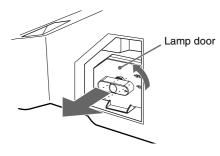
life.

4 Remove the outside lamp cover.



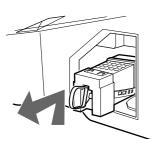
5 Remove the lamp door.

Turn the knob counterclockwise to OPEN and pull out the cover.



6 Pull out the lamp.

Hook a finger through the loop of the lamp handle and pull the handle upwards. Then pull the lamp straight out.

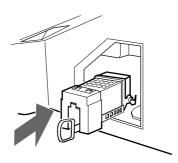


- The lamp is very hot immediately after use. Never touch the glass portion of the lamp or the surrounding parts.
- After the used lamp has cooled, place it into the empty box of the replacement lamp.

 Never put the used lamp into a plastic bag.

7 Put the new lamp into its place.

Mount the new lamp securely. Failure to do so may cause a fire or the screen to go dark.



- If the lamp is not securely reattached, the selfdiagnostic function may be triggered and the POWER/STANDBY indicator flashes three times (see page 12).
- **8** Reattach the lamp door.

 Turn the knob back to CLOSE and secure the cover.



9 Put the outside lamp cover back in its place.



- Consult your Sony dealer for a Sony XL-2400 replacement lamp.
- Take great care when replacing the lamp or plugging

in/unplugging the connecting cords. Rough handling may cause the TV to fall, damaging the TV, the TV stand and the floor.

The used lamp

This product contains mercury. Disposal of this product may be regulated if sold in the United States. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance (http://www.eiae.org).

Do not leave the used lamp near flammable materials or
within the reach of children.

Do not pour water onto the used lamp or put any object
inside the lamp. Doing so may cause the lamp to burst.

For replacement lamp information visit: U. S. residents: http://www.sonystyle.com/tv/ Canadian residents: http://www.sonystyle.ca/tv/

SAFETY CHECK-OUT

(US model only)

After correcting the original service problem, perfom the following safety checks before releasing the set to the customer:

- Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
- 2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
- 3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
- 4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
- 5. Look for parts which, through functioning, show obvious signs of deterioration. Point them out to the customer and recom mend their replacement.
- 6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
- 7. Check the condition of the monopole antenna (if any). Make sure the end is not broken off, and has the plastic cap on it. Point out the danger of impalement on a broken antenna to the customer, and recommend the antenna's replacement.
- 8. Check the B+ and HV to see they are at the values specified. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
- Check the antenna temminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

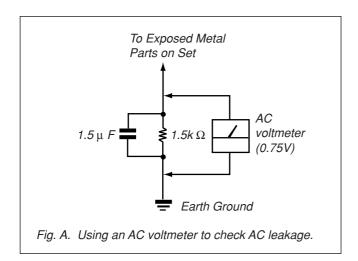
LEAKAGE TEST

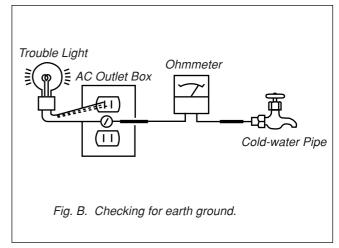
The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers). Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- 2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-l00 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)





RM-YD003 RM-YD003

CAUTION

These servicing instructions are for use by qualified service personnel only.

To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.

THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK \triangle ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE DELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DEPANNAGE.

LE CHÁSSIS DE CE RECEPTEUR EST DIRECTEMENT RAC-CORDÉ Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS ÁLA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE FRAME ET PAR UNE MAPQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÉCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY. LES RÉGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRÉSENT MANUEL. SUIVRE CES PROCÉDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT SUSPECTÉ.

TABLE OF CONTENTS

Se	ction	<u>Title</u>	Page	Secti	on	Title	Page
1.	SEL	F DIAGNOSIS FUNCTION	11			-14. Pull Out Some Blocks (7)	27
						-15. Pull Out Some Blocks (8)	28
2.	DISA	ASSEMBLY				-16. Pull Out Some Blocks (9)	28
	2-1.	Rear Cover	16			-17. Pull Out Some Blocks (10)18. Remove Optics Unit	28 28
	2-2.	Service Position	17		2-2-	-16. Remove Optics Offit	20
	2-3.	Antenna Switch, QU Block Assembly	18	3	FLF	CTRICAL ADJUSTMENTS	
	2-4.	K Board	19	0.		Electrical Adjustment by Remote Commander	29
	2-5.	Terminal Bracket	19			Method of Setting the Service Adjustment	2)
	2-6.	HPC Board	19		31	Mode	29
	2-0. 2-7.	B Block	20		3-1-2	2. Service Mode Adjustment	29
						3. Memory Write Confirmation Method	29
	2-8.	OU Bracket	20		3-1-4	4. Adjusting Buttons and Indicator	29
	2-9.	B Board	20		3-2.	To read Lamp and Panel time	30
		B, QM and QT Boards	21		3-3.	Test Reset	30
	2-11.	QT Board	21				
	2-12.	QM Board	21	4.	DIA	GRAMS	
	2-13.	P Board	21		4-1.	Block Diagram (1)	31
	2-14.	AGU Board	22			Block Diagram (2)	32
	2-15.	DC Fan	22			Block Diagram (3)	
	2-16.	Main Duct (R)	23			Block Diagram (4)	
	2-17.	Duch Block Assembly				Block Diagram (5)	35
		(Without Main Duct (R))	23			Block Diagram (6)	
	2-18.	D.C. Fan (Sirocco)	23				37
	2-19.	Speaker Grill Block Assembly	23		4-2.	Block Diagram (7)	38
		HA and HB Boards	24			Frame Schematic Diagram	
		Screen Frame Block Assembly	24		4-3.	Circuit Boards Location	39
		Speakers	24		4-4.	Schematic Diagrams	
		Rear Cover (With Mirror)	24		(1)	Schematic Diagram of HA Board	40
					(2)	Schematic Diagram of HA Board	41 42
	2-24.	How to Replace Optics Unit	25 25		(4)	Schematic Diagram of HC Board	43
		-1. Remove Lamp Bloxk (1)2. Remove Lamp Bloxk (2)	25		(5)	Schematic Diagram of K Board	44
		-3. Remove Lamp Bloxk (2)	25		(6)	Schematic Diagram of QT (1/3) Board	45
		-4. Remove Cover, Rear (1)	25		(7)	Schematic Diagram of QT (2/3) Board	46
		-5. Remove Cover, Rear (1-2)	25		(8)	Schematic Diagram of QT (3/3) Board	47
		-6. Remove Cover, Rear (2)	25		(9)	Schematic Diagram of QU Board	48
	2-24	-7. Remove Stay (L), Side	26			Schematic Diagram of S2 Board	49
	2-24	-8. Pull Out Some Blocks (1)	26			Schematic Diagram of T1 Board	50
		-9. Pull Out Some Blocks (2)	26		(12)	Schematic Diagram of T2 Board	51
		-10. Pull Out Some Blocks (3)	26				
		-11. Pull Out Some Blocks (4)	26				
		-12. Pull Out Some Blocks (5)	27				
	2-24	-13. Pull Out Some Blocks (6)	27				

Section	Title		
4-5.	Printed Wiring Boards	52	
(1)	GT Board	52	
(2)	HA, HB Boards	53	
(3)	HC, K Boards	54	
(4)	QT Board	55	
(5)	QU Board	56	
(6)	S2 Board	57	
(7)	T1, T2 Boards	58	
4-6.	Semiconductors	59	
5. EXF	PLODED VIEWS		
5-1.	Screen Mirror Block, Cover	60	
5-2.	B Block, Chassis Assembly	61	
5-3.	Lamp Duct Assembly, Optics Unit Block	62	
6. ELE	CTRICAL PARTS LIST		
• (T Board	63	
• F	IA Board	65	
• F	IB Board	65	
• F	IC Board	66	
• F	IPC Board	66	
• k	K Board	67	
• (OT Board	69	
• (U Board	71	
• S	2 Board	71	
• 1	`1 Board	71	
• 7	^2 Board	71	

SECTION 1 SELF DIAGNOSIS FUNCTION

1. Summary of Self-Diagnosis Function

- This device includes a self-diagnosis function.
- In case of abnormalities, the POWER/STANDBY indicator automatically blinks. It is possible to predict the abnormality location by the number of blinks. The Instruction Manual describes blinking of the POWER/STANDBY indicator.
- If the symptom is not reproduced sometimes in case of a malfunction, there is recording of whether a malfunction was generated or not. Operate the remote command to confirm the matter on the screen and to predict the location of the abnormality.

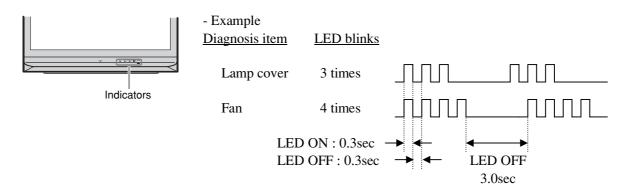
2. Diagnosis Items and Prediction of Malfunction Location

- When a malfunction occurs the POWER/STANDBY indicator only blinks for one of the following diagnosis items. In case of two or more malfunctions, the item which first occurred blinks. If the malfunctions occurred simultaneously, the item with the lower blink count blinks first.
- The screen display displays the results regarding all the diagnosis items listed below. The display "0" means that no malfunctions occurred.

Diagnosis Item Number of times POWER/STANDBY indicator blinks		Probable Cause Location	Defected symptoms
Temp error	2 times	 Set temperture is high. Temp sensor connector is not attached securely. (CN7020 on HB board, CN7180 on S2 board) 	- No picture/No sound
Lamp cover error	3 times	Lamp cover is not attached securely.Lamp is not set securely.	- No picture/No sound
Fan stopped	Fan stopped 4 times - Fan 1-4 power is not supplied. (AGU board) - Fan connector is not attached securelyFan caught wires or harnesses.		
Lamp driver error	5 times	- Lamp driver is faulty.	- No picture/No sound
Low B error	6 times	- B_12V is not supplied. (GT board)	- No picture/No sound
Audio error	7 times	- Short-circuit of Audio power supply line. -Blow out of fuse. (PS3001 on K board) -IC failure. (IC3005 on K board)	- No picture/No sound
D-OVP error	8 times	-B -12V is over voltage. (B board)	- No picture/No sound
ATSC OVP	10 times	-Q_10.5V is over voltage. (GT board)	- No picture/No sound
Lamp error	LAMP-LED flashes	- Lamp for the light source burns out.	- No picture/No sound

3. Blinking count display of POWER/STANDBY indicator

- One blink is not used for self-diagnosis.



- Release of POWER/STANDBY indicator blinking

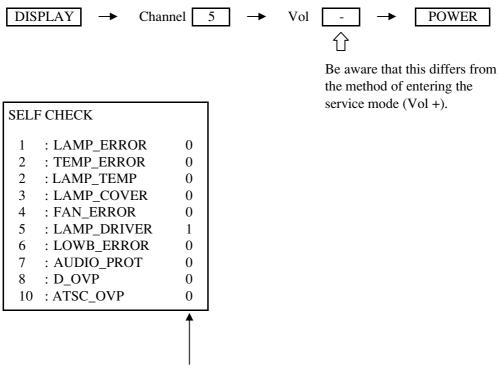
The POWER/STANDBY indicator blinking display is released by removing the plug from the power or leaving for 2 minutes.

4. Self-diagnosis screen displays

- In cases of malfunctions where it is not possible to determine the symptom such as when the power goes off occasionally or when the screen disappears occasionally, there is a screen display on whether the malfunction occurred or not in the past (and whether the detection circuit operated or not) in order to allow confirmation.

<Screen Display Method>

- Quickly press the remote command button in the following order from the standby state.

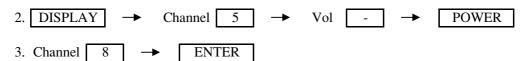


- Numeral "1" means a fault was detected one time
- Numeral "0" means that no fault was detected

- The results display is not automatically cleared. In case of repairs and after repairs, check the self-diagnosis screen and be sure to return the results display to "0".
- If the results display is not returned to "0" it will not be possible to judge a new malfunction after completing repairs.

<Method of Clearing Results Display>

1. Power off (Set to the standby mode)



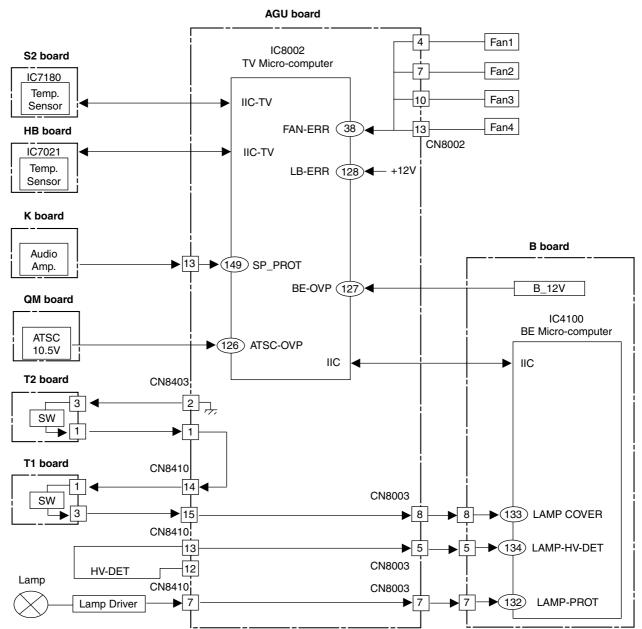
<Method of Ending Self-Diagnosis Screen>

- When ending the self-diagnosis screen completely, turn the power switch OFF on the remote commander or the main unit.

5. Self-Diagnosis function operation

`		sis function operat	
2	:	Temp	When the temperature sensor on the S2 board detects high temperature, or IIC line connector (CN8410:AGU board, CN7180:S2 board) is not seated securely, the TV-micro tums off the lamp.
			When the temperature sensor on the HB board detects high temperature, or IIC line connector (CN8004:AGU board, CN7020:HB board) is not seated securely, the TV-micro tums off the lamp.
3	:	Lamp cover	The rib at the back of the lamp cover closes the SW on the T1 board. The lamp closes the SW on the T2 board.
			It is monitored by the BE micro (pin133 of IC4100) and tums off the lamp when it is opened.
4	:	Fan	Fan rotation is detected by "FAN-PROT" and the TV-micro (pin 38 of IC8002) tums off the lamp when it is "high".
5	:	Lamp Driver	When the "LAMP-PROT" (pin132 of IC4100) is high, the lamp is not tumed on. If the "LAMP-HV-DET" (pin134 of IC4100) is low at the same time, it is classified as no high voltage of the lamp driver.
6	:	Low B error	When no "B $_12V$ " is detected, pin 128 of TV-micro is low and it tums off the main power.
7	:	Audio	When DC voltage is detected at the speaker output, pin 149 of TV-micro is low and it tums off the main power.
8	:	D-OVP	When overvoltage of "B $_12V$ " is detected, pin 127 of TV-micro is low and it tums off the main power.
10	:	ATSC-OVP	When overvoltage of " $Q_10.5 \text{ V}$ " is detected, pin 126 of TV-micro is low and it tums off the main power.
LAMP	:	Lamp	When the "LAMP-PROT" (pin132 of IC4100) is high, the lamp is not tumed on. If the "LAMP-HV-DET" (pin134 of IC4100) is high at the same time, it is classified as no lamp or a dead lamp.

BLOCK DIAGRAM



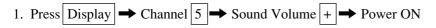
Reading Lamp and Panel time

Use the following to determine the lamp and panel time of a set.

2. To enter BE-micro service menu, press JUMP 2 times.

Screen Display Method

In standby mode, press the buttons on the Remote Commander sequentially, in rapid succession, as shown below:



3. To display the lamp time, press Channel-4.

The screen displays:

"Total lamp time is 14 hours"

4. To display the panel time, press Channel-4.

The screen displays:

"Total panel time is 14 hours"

5. To display the lamp time clear, press Channel-5 7 times and Channel-1.

CONFIGRATION	00	00A0	SERVICE
CP18 COLOR SYS	00		BE Micro
		ress Channe	l-4
GW_SPECIAL	34	00000014	SERVICE
LAMP_TIME	02		BE Micro
,	₽ P	ress Channe	l-4
GW_SPECIAL	34	00000014	SERVICE
PANEL TIME	01		BE Micro
	v	ress Channe hannel-1	I-5 7 times,
OPTION_E	20	0000	SERVICE
LAMP	01		BE Micro

To reset the lamp time press Channel-3 > MUTING > ENT.

WRITE (Character color is red) is momentarily displayed and the lamp time is reset to "0".

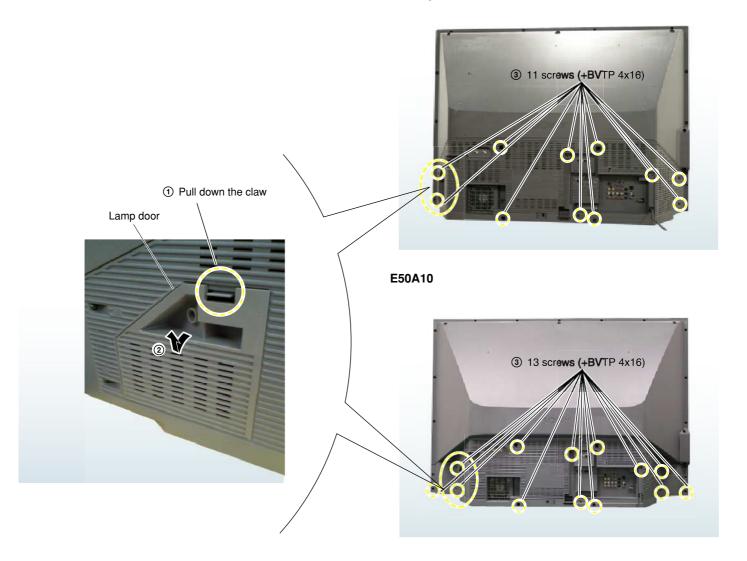
Exiting Service Mode

After completing the changes exit service mode by turning off the set using the Remote Commander or the power switch.

SECTION 2 DISASSEMBLY

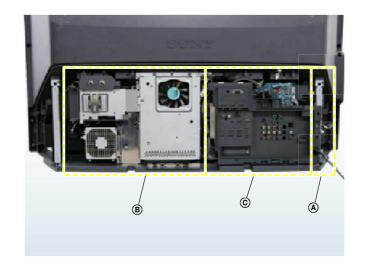
2-1. REAR COVER

E42A10

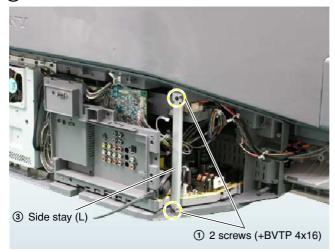




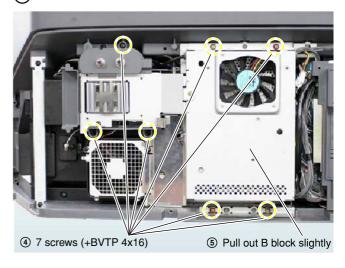
2-2. SERVICE POSITION



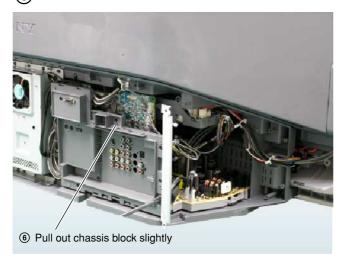


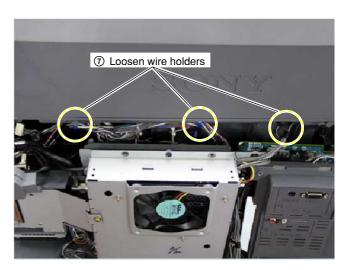


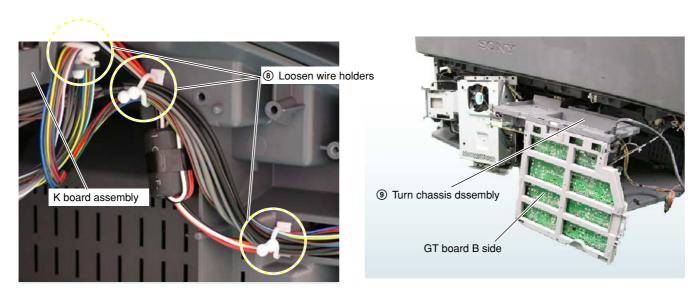




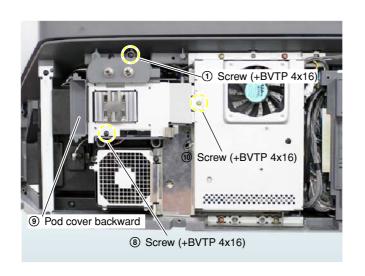
©

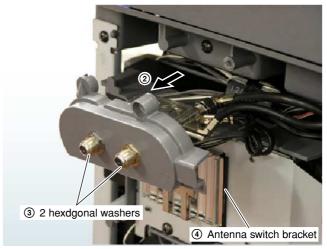


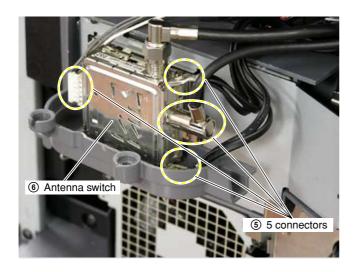


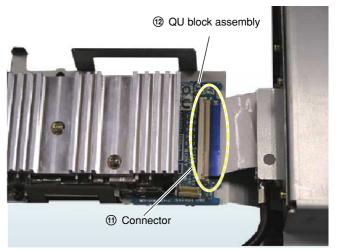


2-3. ANTENNA SWITCH, QU BLOCK ASSEMBLY

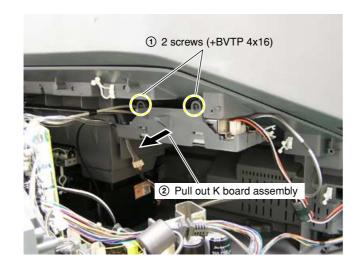


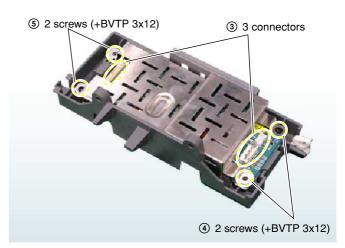


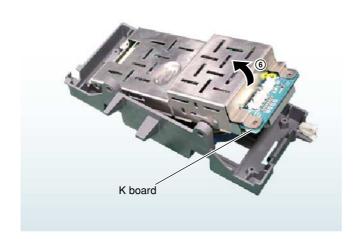




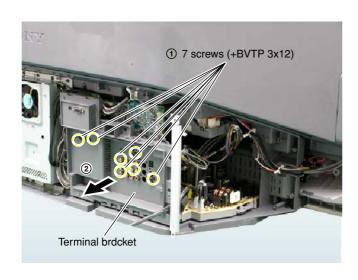
2-4. K BOARD



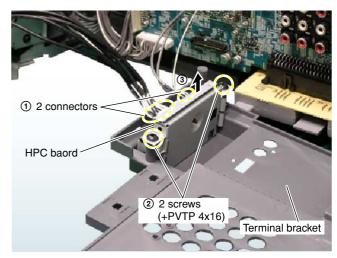




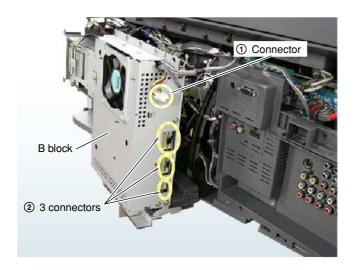
2-5. TERMINAL BRACKET

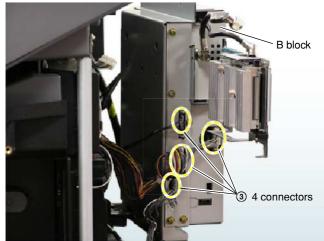


2-6. HPC BOARD

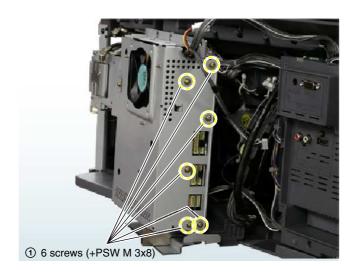


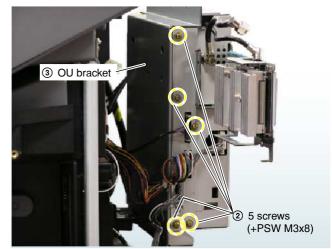
2-7. B BLOCK



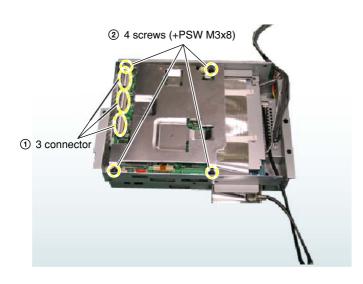


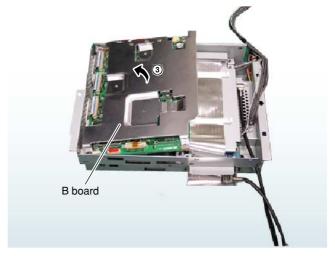
2-8. OU BRACKET



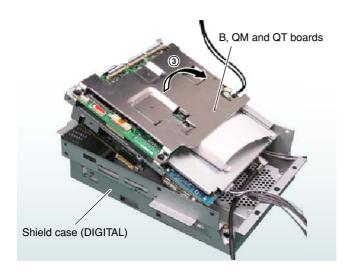


2-9. B BOARD

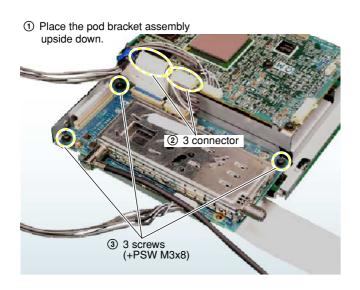


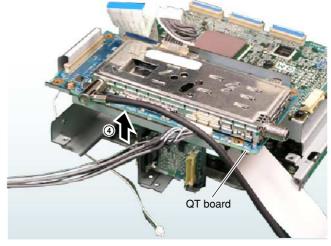


2-10. B, QM AND QT BOARDS

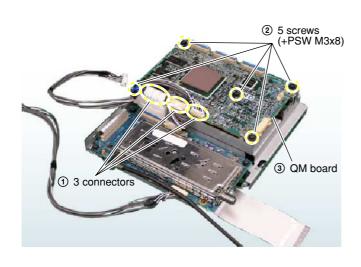


2-11. QT BOARD

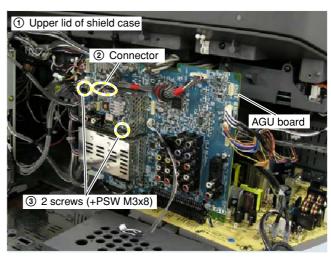




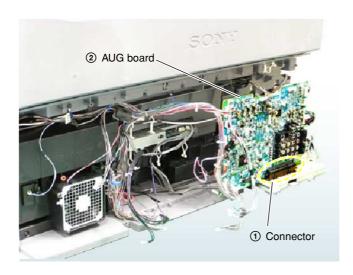
2-12. QM BOARD



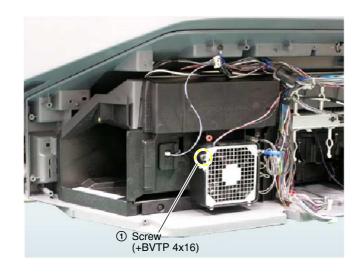
2-13. P BOARD

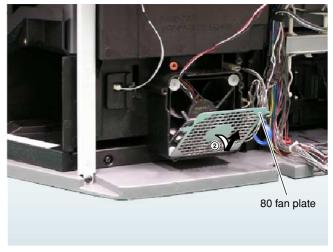


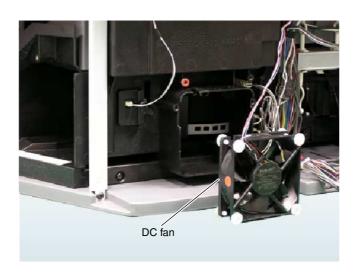
2-14. AGU BOARD



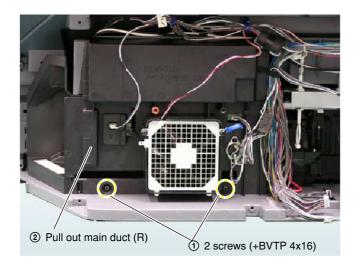
2-15. DC FAN



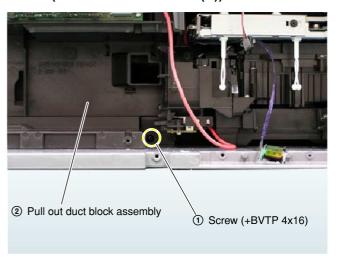




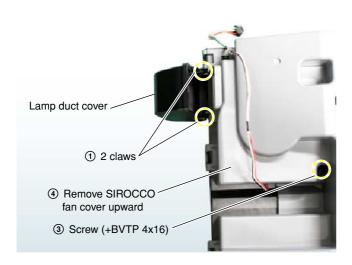
2-16. MAIN DUCT (R)

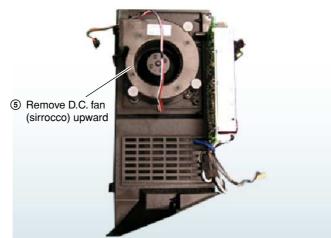


2-17. DUCT BLOCK ASSEMBLY (WITHOUT MAIN DUCT (R))

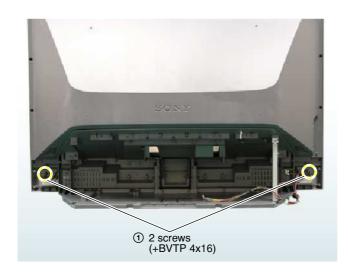


2-18. D.C. FAN (SIROCCO)



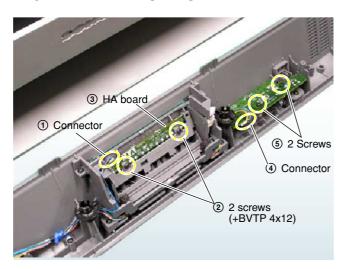


2-19. SPEAKER GRILL BLOCK ASSEMBLY

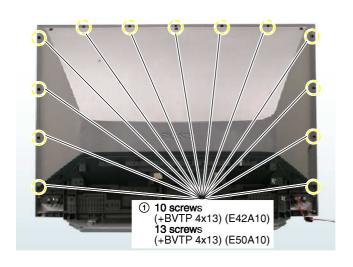


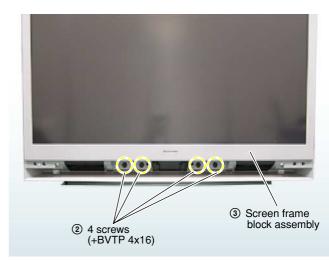


2-20. HA AND HB BOARDS

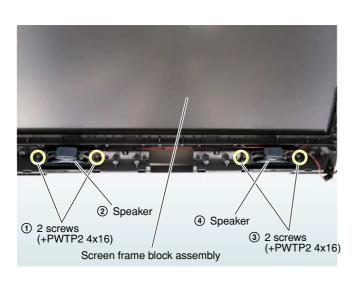


2-21. SCREEN FRAME BLOCK ASSEMBLY

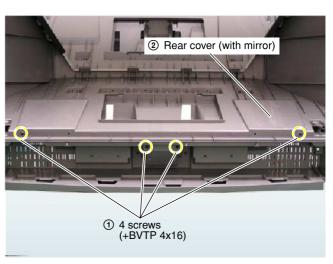




2-22. SPEAKERS



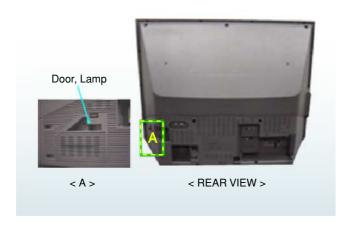
2-23. REAR COVER (WITH MIRROR)



2-24. HOW TO REPLACE OPTICS UNIT

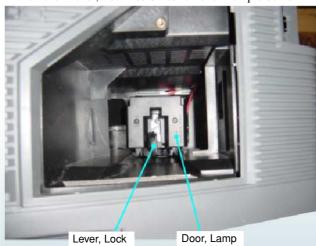
2-24-1. Remove Lamp Block (1)

Remove " Door, Lamp ".



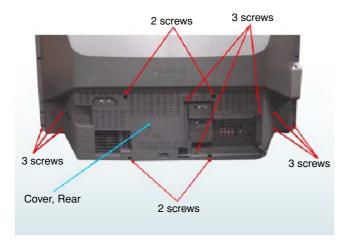
2-24-3. Remove Lamp Block (3)

Pull the "Lever, Lock" below to remove "Lamp block".



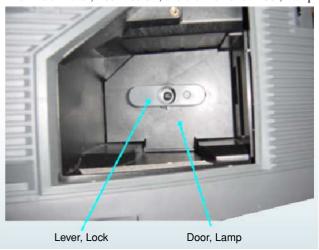
2-24-5. Remove Cover, Rear (1-2)

Take off 13 screws (50").



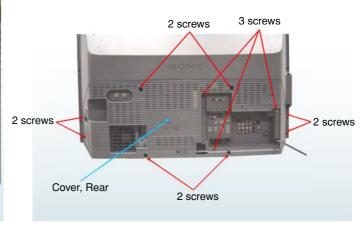
2-24-2. Remove Lamp Block (2)

Turn left "Lever, Lock" below, and then remove "Door, Lamp".



2-24-4. Remove Cover, Rear (1)

Take off 11 screws (42"), and then pull out "Cover, Rear".



2-24-6. Remove Cover, Rear (2)

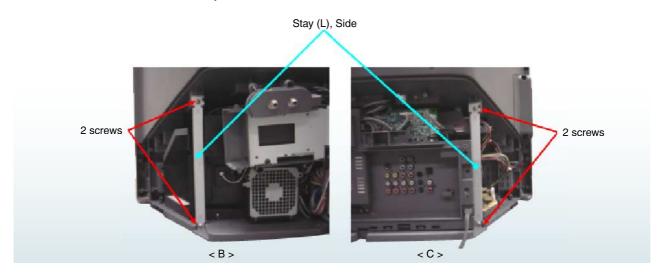
It is removed "Cover, Rear".



RM-YD003 RM-YD003

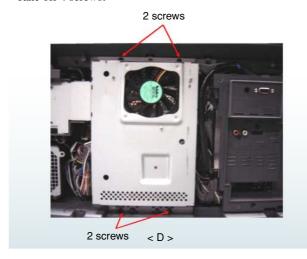
2-24-7. Remove Stay (L), Side

Take off 4 screws, and then remove 2 "Stay (L), Side".



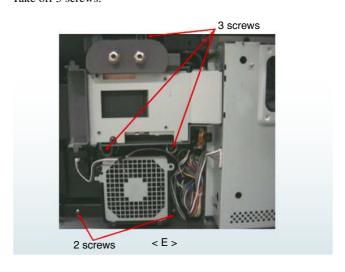
2-24-8. Pull Out Some Blocks (1)

Take off 4 screws.



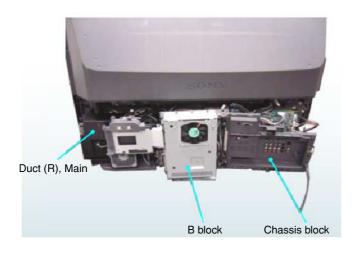
2-24-9. Pull Out Some Blocks (2)

Take off 5 screws.



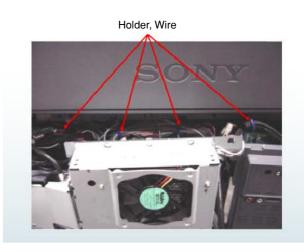
2-24-10. Pull Out Some Blocks (3)

Pull out "B block", "Chassis block", and "Duct (R), Main" a little bit.



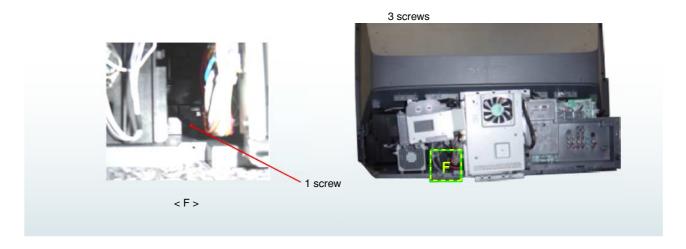
2-24-11. Pull Out Some Blocks (4)

Unlock "Holder, Wire" as shown below.



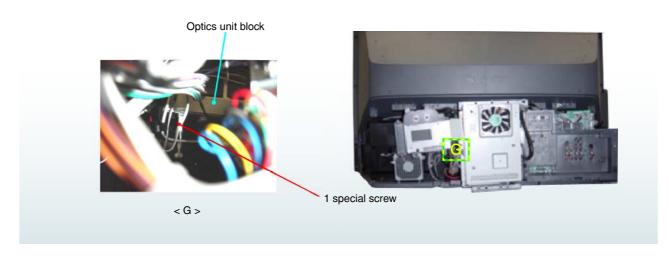
2-24-12. Pull Out Some Blocks (5)

Take off 1 screw.



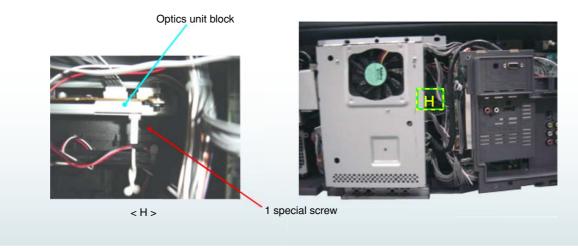
2-24-13. Pull Out Some Blocks (6)

Loose 1 special screw. (This screw can not be taken off.)



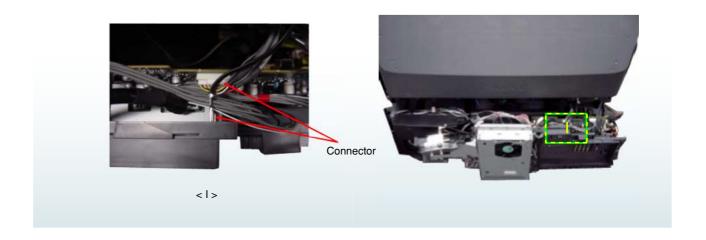
2-24-14. Pull Out Some Blocks (7)

Take off 1 screw.



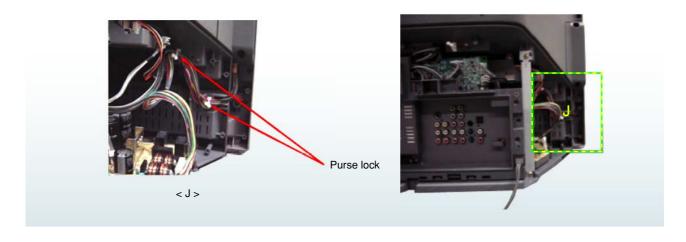
2-24-15. Pull Out Some Blocks (8)

Remove 2 connecters to pull out some blocks as shown below.



2-24-16. Pull Out Some Blocks (9)

Unlock "Purse Lock" to pull out some blocks as shown below.

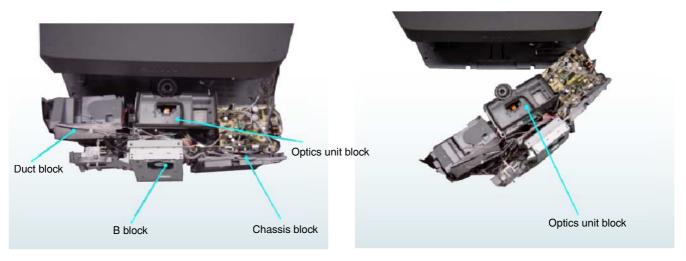


2-24-17. Pull Out Some Blocks (10)

Pull out "B block", "Chassis block", "Duct block", and "Optics Unit block".

2-24-18. Remove Optics Unit

Remove all connecters to remove "Optics Unit block" and then it.



SECTION 3

ELECTRICAL ADJUSTMENTS

3-1. ELECTRICAL ADJUSTMENT BY REMOTE COMMANDER

By using remote commander (RM-YD003), all circuit adjustments can be made.

NOTE: Test Equipment Required.

- 1. Pattern Generator (with component outputs)
- 2. Oscilloscope
- 3. Digital multimeter

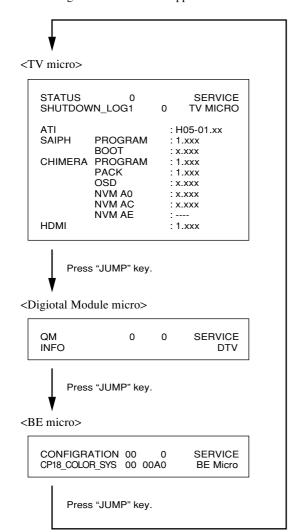
3-1-1. Method of Setting the Service Adjustment Mode

- 1. Standby mode. (Power off)
- 2. $\boxed{\text{DISPLAY}} \rightarrow \boxed{5} \rightarrow \boxed{\text{VOL}(+)} \rightarrow \boxed{\text{TV POWER}}$ on the remote commander.

(Press each button within a second.)

(Tress each success within a second)

The following service screen will appear.



3-1-2. Service Mode Adjustment

- 1. The SCREEN displays the item being adjusted.
- Press "①" or "④" on the remote commander to select the adjustment item.
- 3. Press "3" or "6" on the remote commander to change the data.
- 4. Press "2" or "5" on the remote commander to select the category. Every time you press "2" (Category up).
- If you want to recover the latest values press "O" then "ENTER" to read the memory.
- 6. Press "MUTING]" then "ENTER]" to write into memory.
- 7. Turn power off.

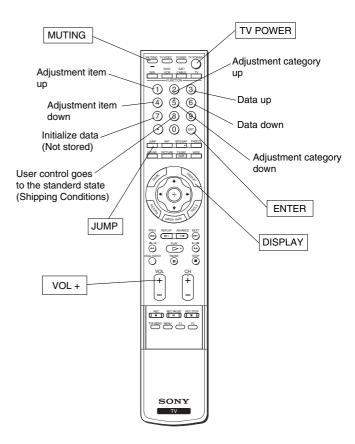
<Method of setting the shipping condition>

- 1. Service Adjustment mode.
- 2. Press "8" then "ENTER"
- 3. Wait until appearing "Initial Setup" display.
- Disconnect AC plug and connect again to change factory reset condition completely.

3-1-3. Memory Write Confirmation Method

- 1. After adjustment, turn power off with the remote commander.
- 2. Turn power on and set to service mode.
- 3. Call the adjusted items again and confirm they were adjusted.

3-1-4. Adjusting Buttons and Indicator



RM-YD003

FUNCTION OF KEYS ON COMMANDER

• ① : Changes adjustment item. (item No. moves up)

• 4 : Changes adjustment item. (item No. moves down)

• ② : Changes adjustment category. (category moves up)

• (5) : Changes adjustment category. (category moves down)

3 : Changes data value. (up) 6 : Changes data value. (down)

Commander Function

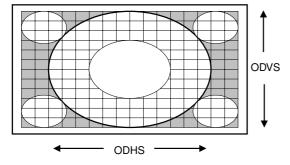
Button	Mode	Description
MUTING + ENTER	WRITE	Writes data to NVM.
0 + ENTER	READ	Reads data from NVM.
8 + ENTER	RESET	Set the shipping condition.

3-2. H/V Center Confirmation and Adjustment

Please check the picture horizontal/vertical center after the replacement of the following parts .

- Optical block
- Top assembly
- 1, Check H/V center with 480i monoscope signal in "Full " mode .
- 2, If the center is shifted, adjust it with the following service items.

ODHS (for H center) ODVS (for V center)



3-3. IRIS Adjustment

Please check it after the replacement of the following parts.

- IRIS unit+Optics unit block+C board
- B board

Check values of the service data in NVM on C board

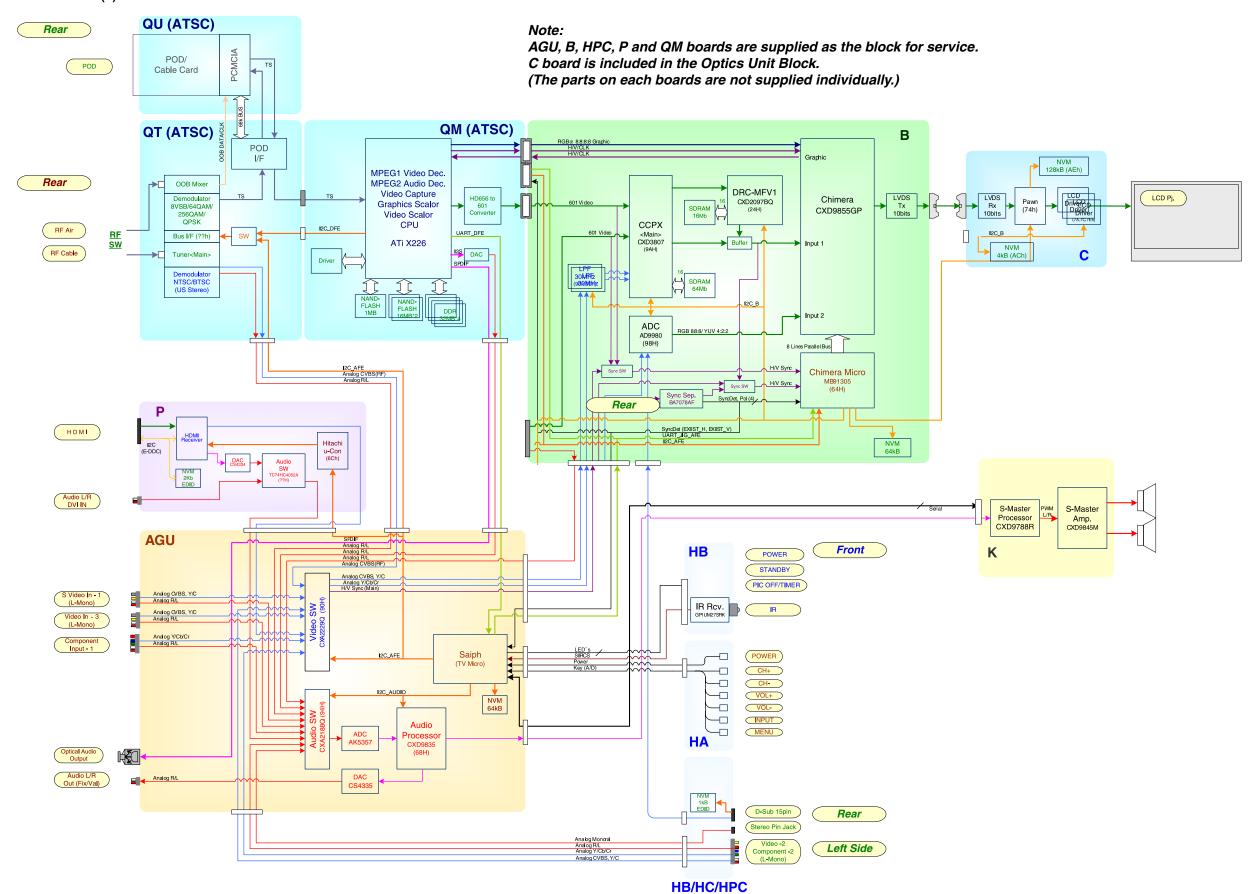
DBL_CTRL_AC	#0	BL_U_TOP
	#1	BL_U_BOTTOM
	#2	BL_MAX
	#3	BL_MIN
	#4	IRIS_GAIN
	#5	HALL_GAIN

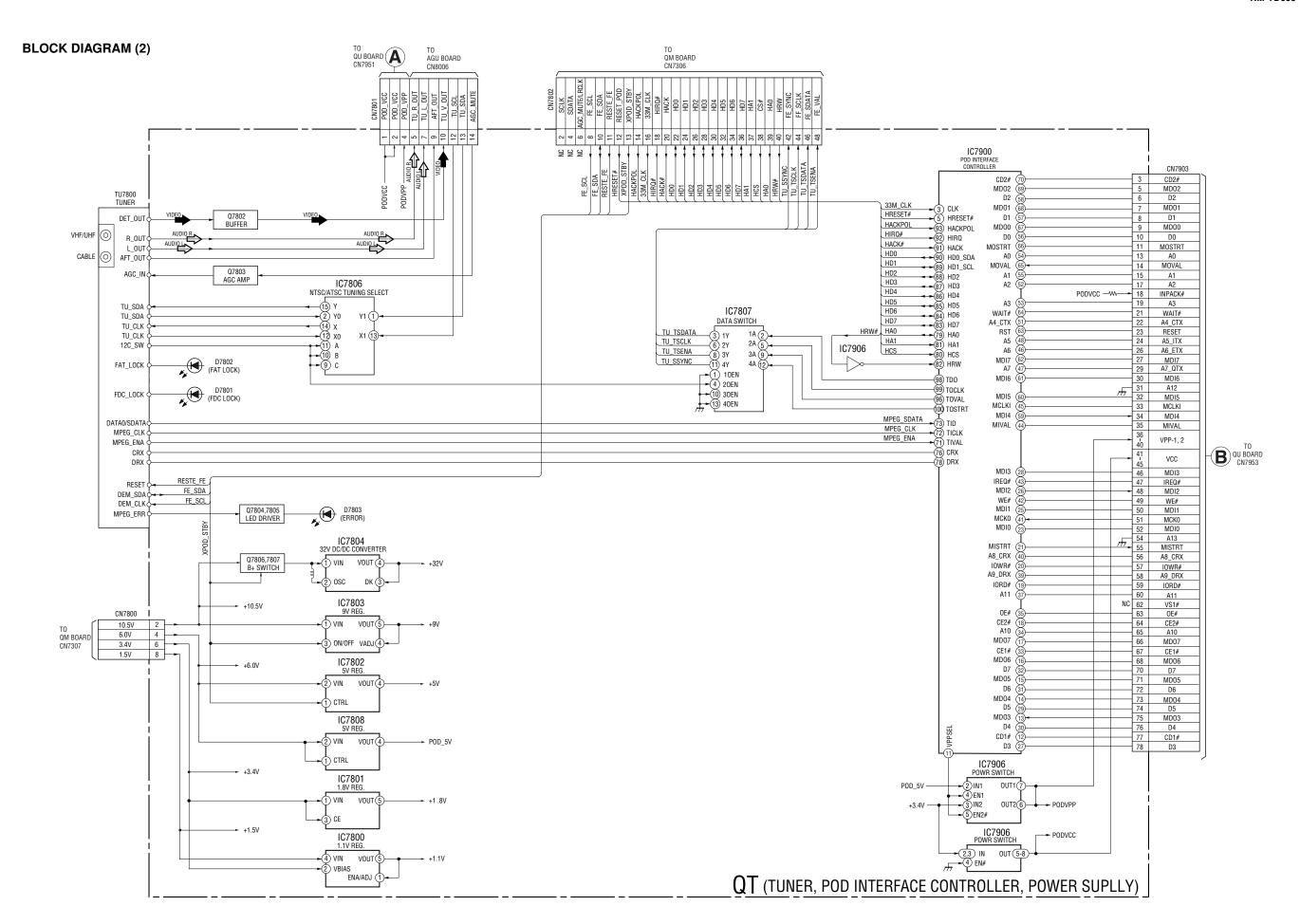
and write the same values on C board to the service data in NVM on B board.

DBL_CTRL	#0	BL_U_TOP
	#1	BL_U_BOTTOM
	#2	BL_MAX
	#3	BL_MIN
	#4	IRIS_GAIN
	#5	HALL_GAIN

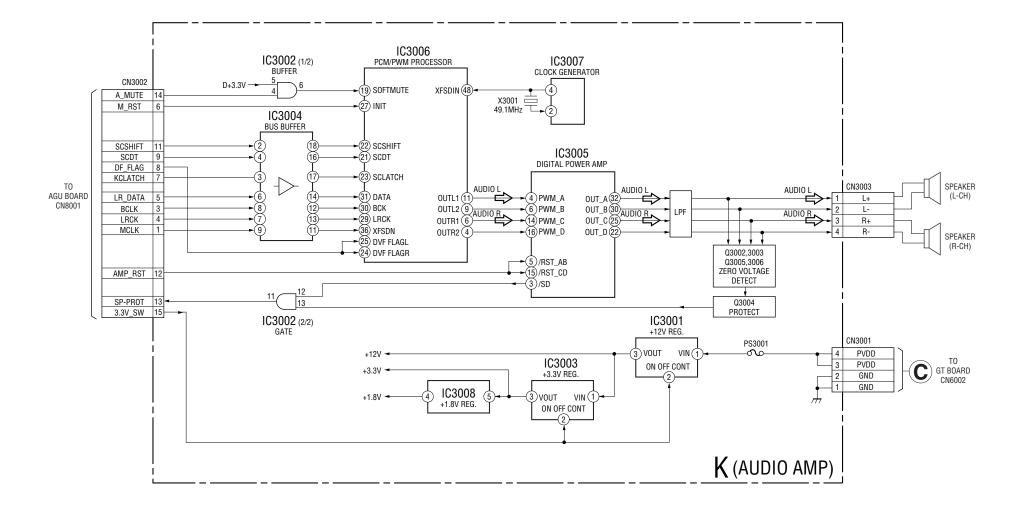
SECTION 4 DIAGRAMS

4-1. BLOCK DIAGRAM (1)

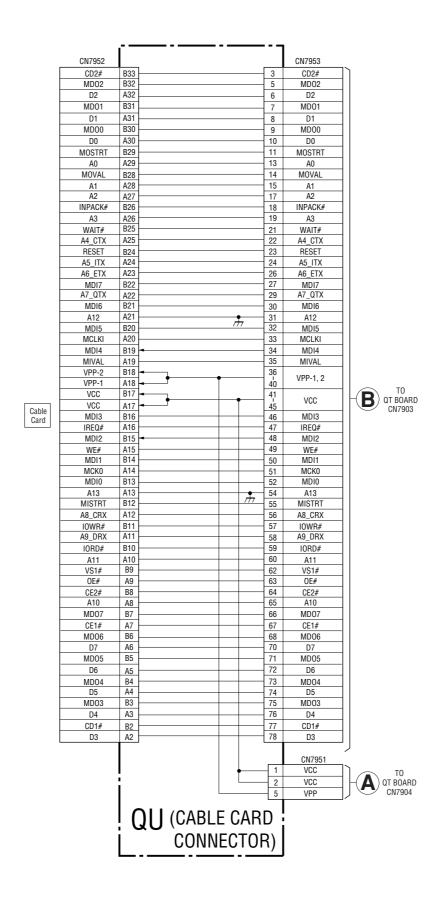




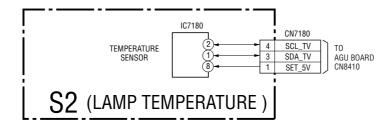
BLOCK DIAGRAM (3)

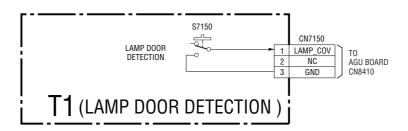


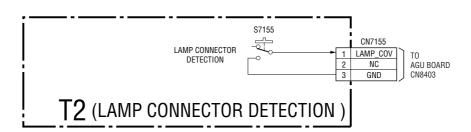
BLOCK DIAGRAM (4)



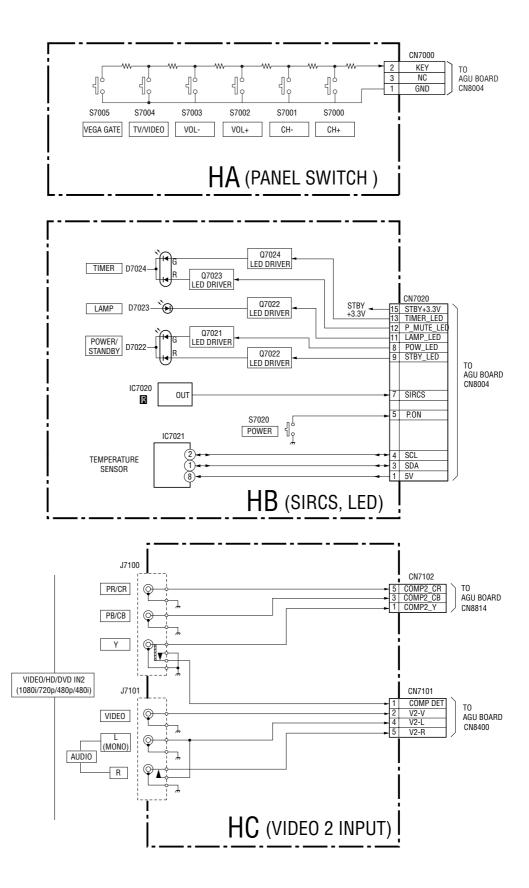
BLOCK DIAGRAM (5)



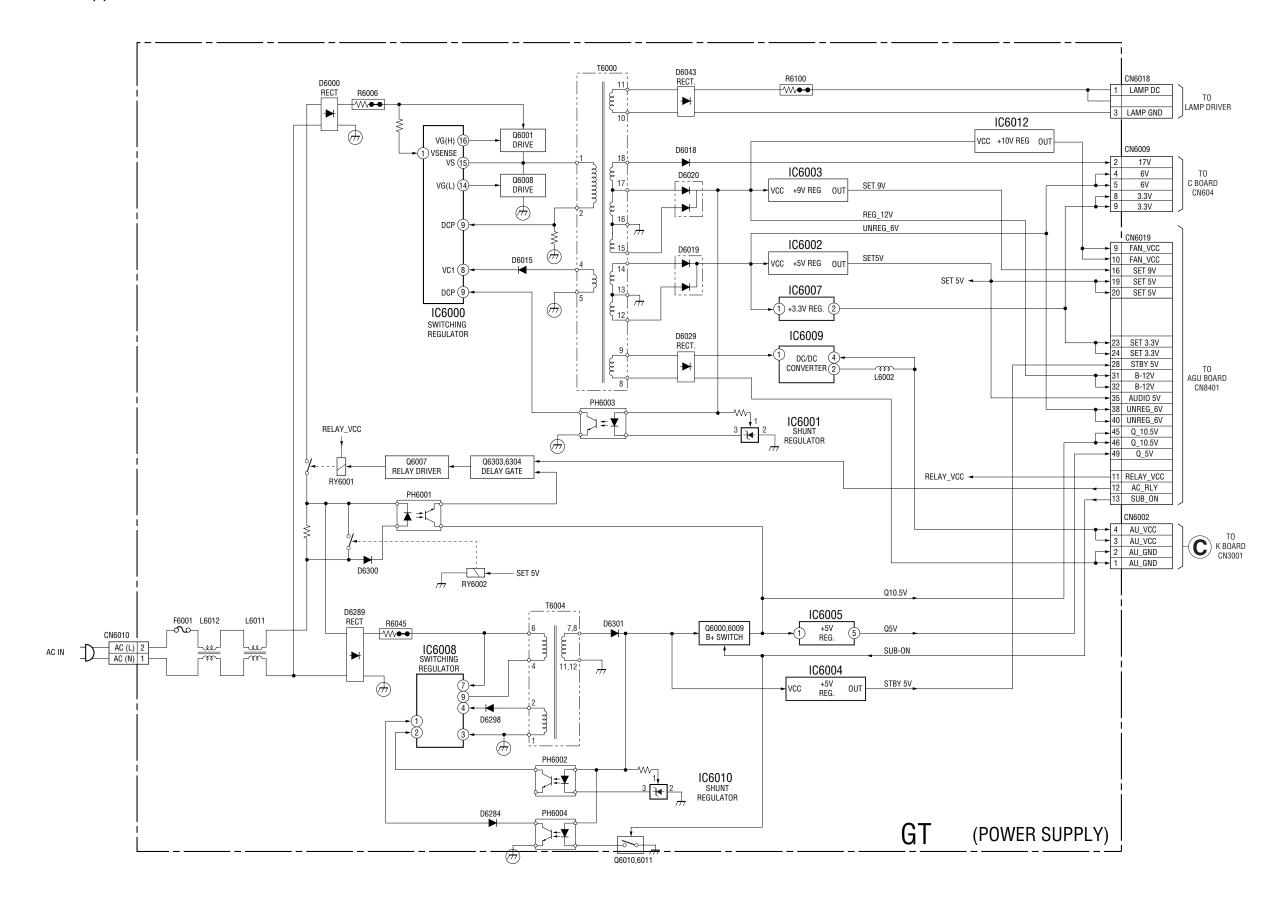




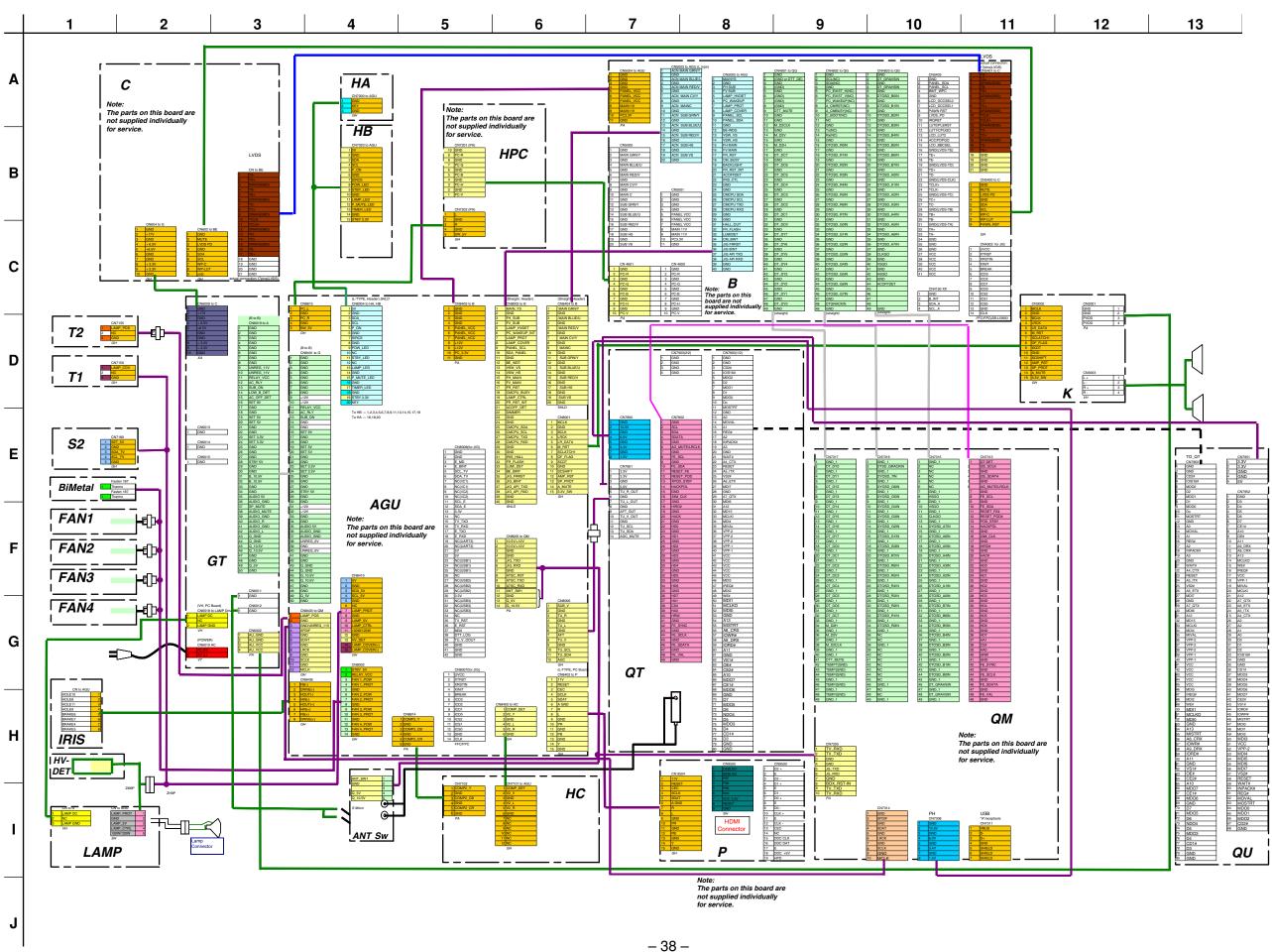
BLOCK DIAGRAM (6)



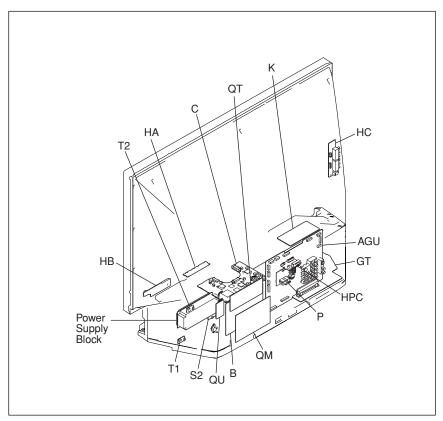
BLOCK DIAGRAM (7)



4-2. FRAME SCHEMATIC DIAGRAM



4-3. CIRCUIT BOARDS LOCATION



4-4. SCHEMATIC DIAGRAMS

Note:

- The parts marked "#" on schematic diagrams are not mounted.
- All capacitors are in μF unless otherwise noted. (pF: $\mu \mu F$) Capacitors without voltage indication are all 50 V.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power 1/4 W (CHIP: 1/10 W)

· All resistors are in ohms.

• _____ : nonflammable resistor.

• fusible resistor.

• \triangle : internal component.

• _____: panel designation, and adjustment for repair.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

_____ : earth-ground.
______ : earth-chassis.

All voltages are in V.

• Readings are taken with a 10 $\mbox{M}\Omega$ digital multimeter.

· Readings are taken with a color-bar signal input.

 Voltage variations may be noted due to normal production tolerances.

• * : Can not be measured.

· Circled numbers are waveform references.

• □ □ : B + bus. • □ □ : B - bus. • □ : Signal path.

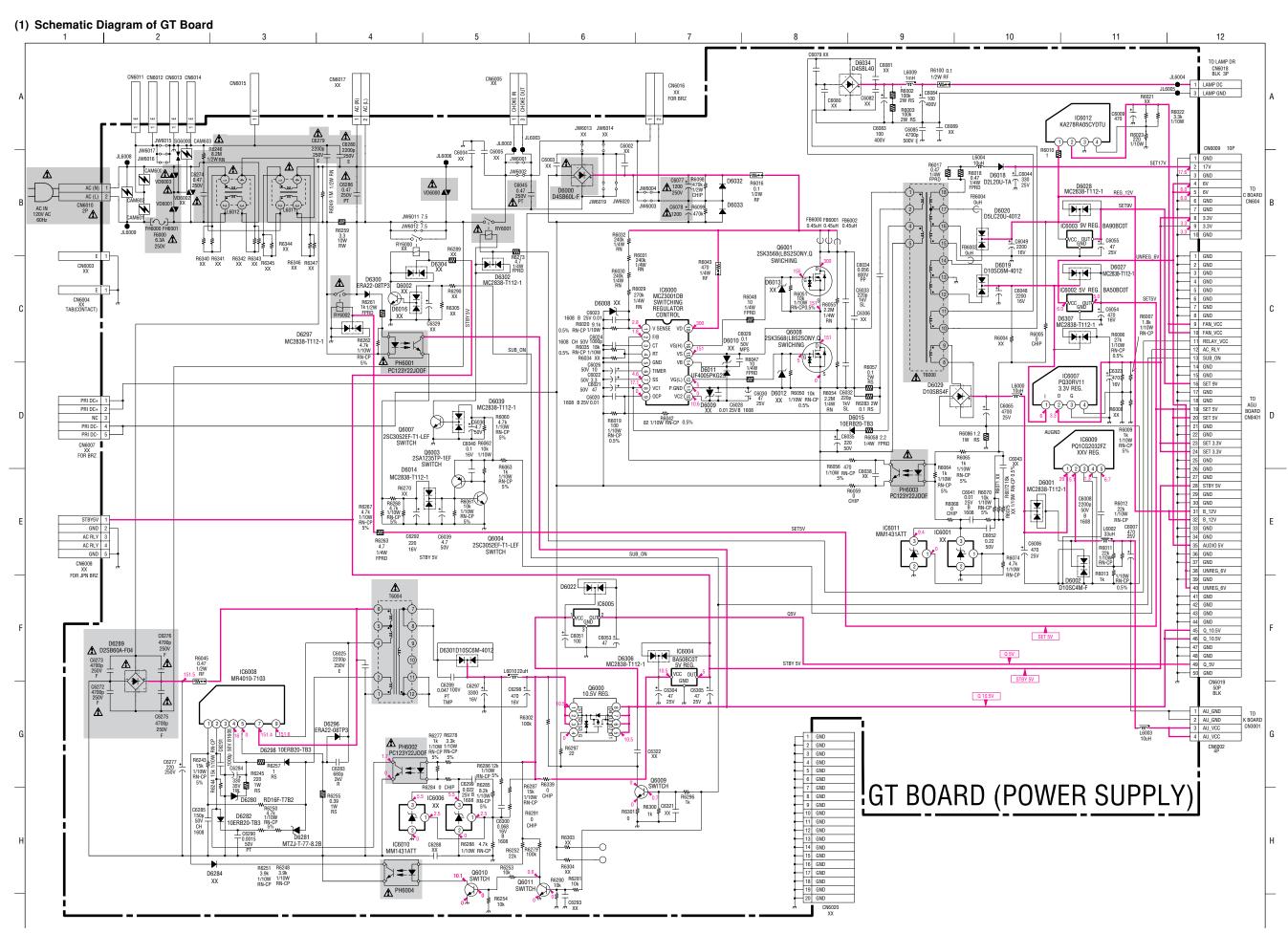
Reference information

Reference in	formation	
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

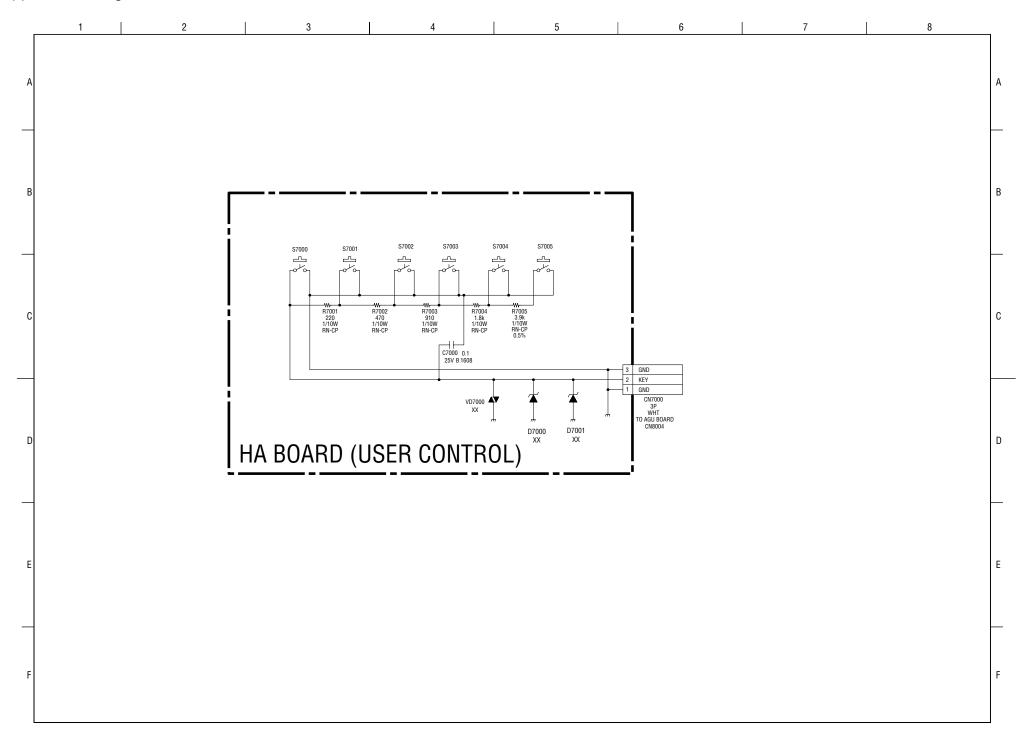
Note: The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

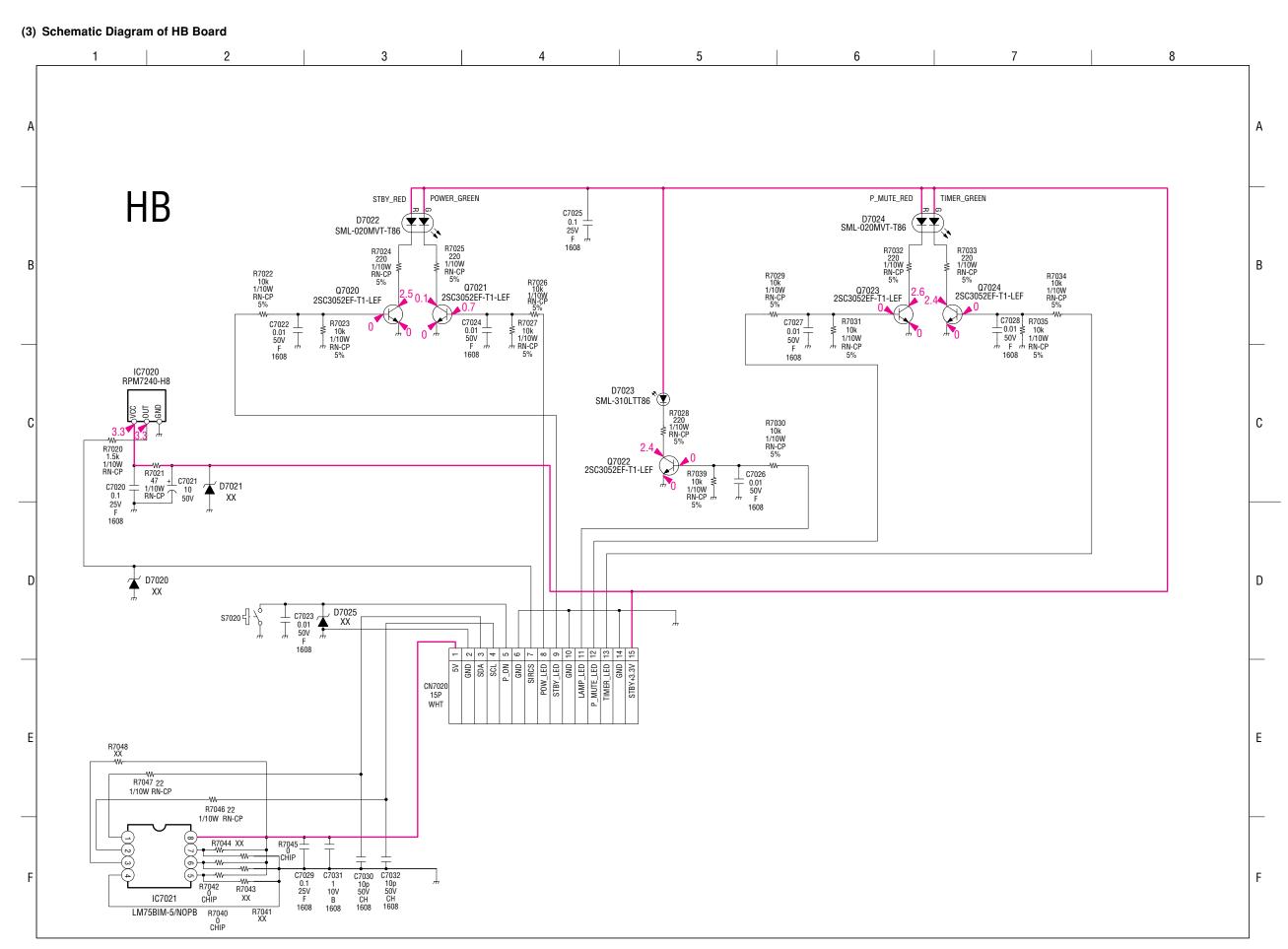
Terminal name of semiconductors in silk screen printed circuit (*)

	Device	Printed symbol	Terminal name	Circuit
①	Transistor	T	Collector Base Emitter	<u></u>
2	Transistor		Collector Base Emitter	
3	Diode	H	Cathode - Anode	*
4	Diode	T	Cathode Anode (NC)	<u> </u>
(5)	Diode		Cathode Anode (NC)	.
6	Diode	T	Common Anode Cathode	Ŷ
7	Diode	_	Common Anode Cathode	[▶ ↓ ▶]
8	Diode	T	Common Anode Anode	γ
9	Diode		Common Anode Anode	[▶
10	Diode	T	Common Cathode Cathode	ا ا
11)	Diode	_	Common Cathode Cathode	Ĺ d • ≥ l
12	Diode		Anode Anode Anode Cathode Anode	
13	Transistor (FET)		Drain Source Gate	
14)	Transistor (FET)	 	Drain Source Gate	so so
15)	Transistor (FET)		☐ Source☐ Drain☐ Gate	
16	Transistor		☐ Emitter☐ Collector☐ Base	
17)	Transistor	++	C2 B1 E1 E2 B2 C1	B10 C10 OC2 B10 OE2
18	Transistor	++	C1 B2 E2 E1 B1 C2	C10 OC2 B10 D OB2
19	Transistor	_	C1 B2 E2 E1 B1 C2	E10 0 E2
20	Transistor	_	C1 B2 E2 E1 B1 C2	B10 0E2 0B2
21)	Transistor	_	E2 B1 E1 C2 C1(B2)	C1(B2) Q QC2 B1 Q E2Q QE2
22	Transistor		(B2) B1 E1 E2 C1 C2	B1 O C10 OC2
23	Transistor		(B2) E2 E1 B1 C2 C1	B1 O C2
	Discrete se	miconductot		

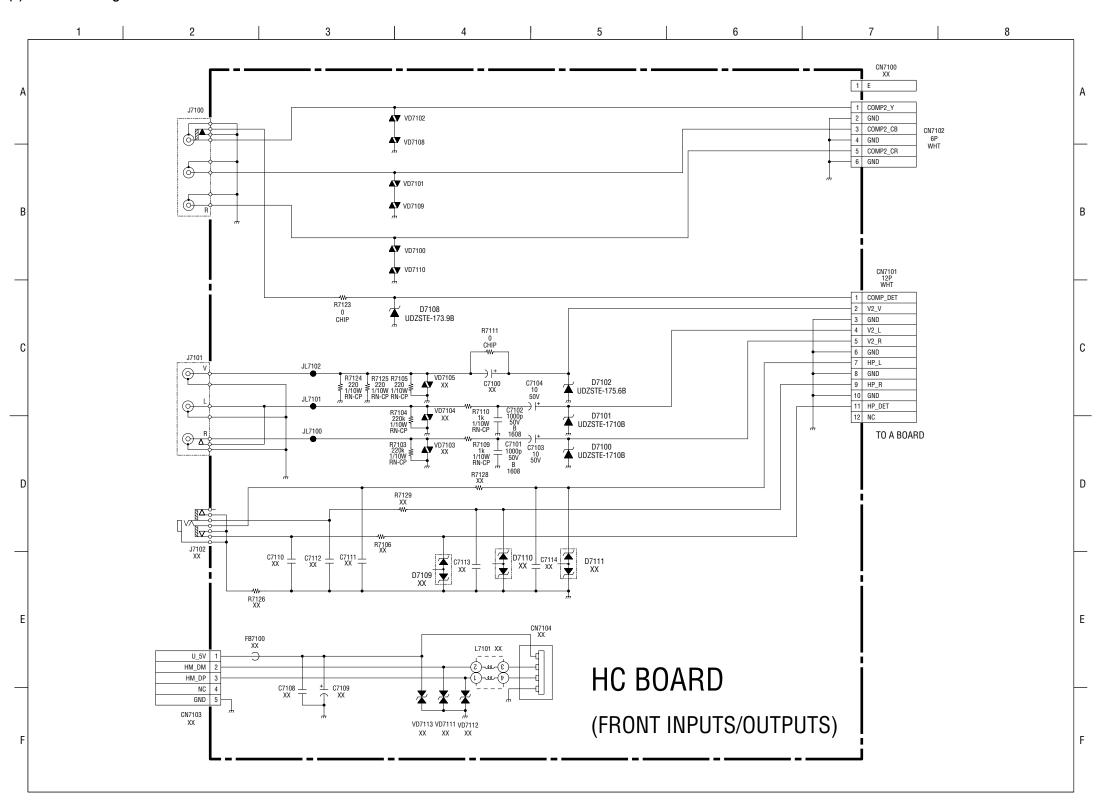


(2) Schematic Diagram of HA Board

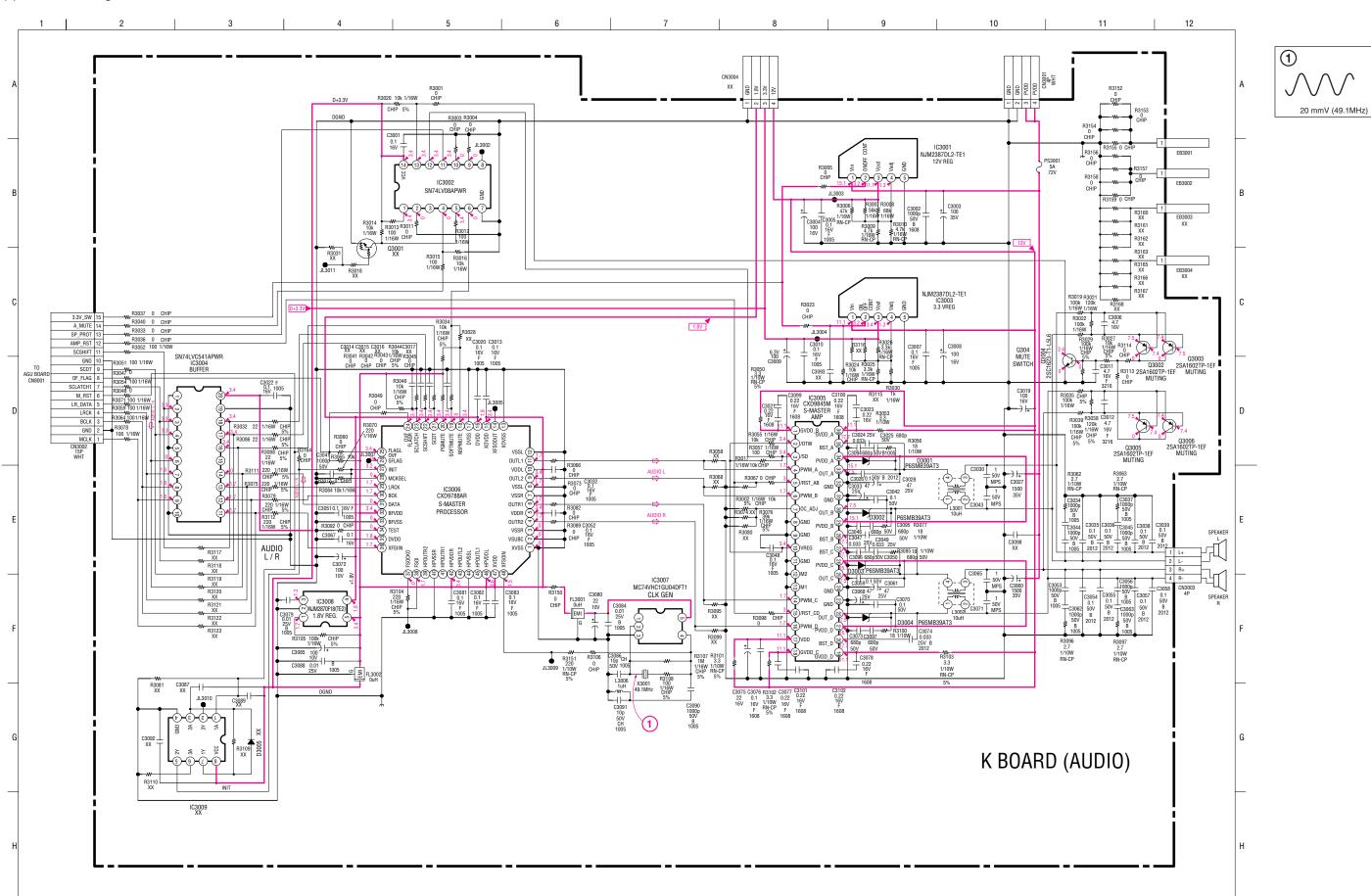




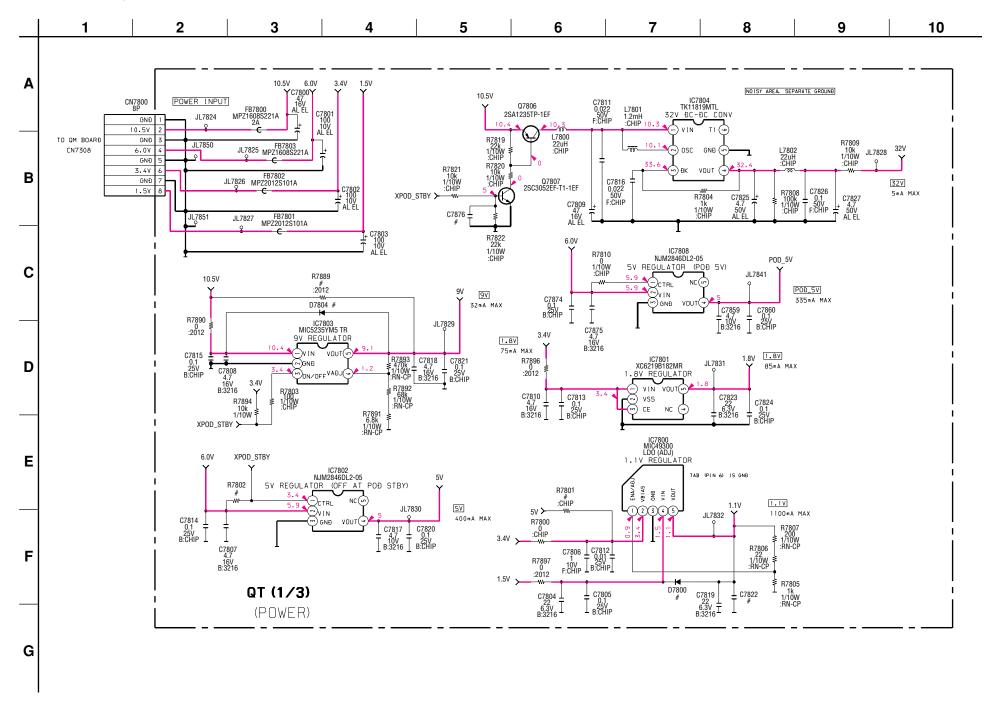
(4) Schematic Diagram of HC Board



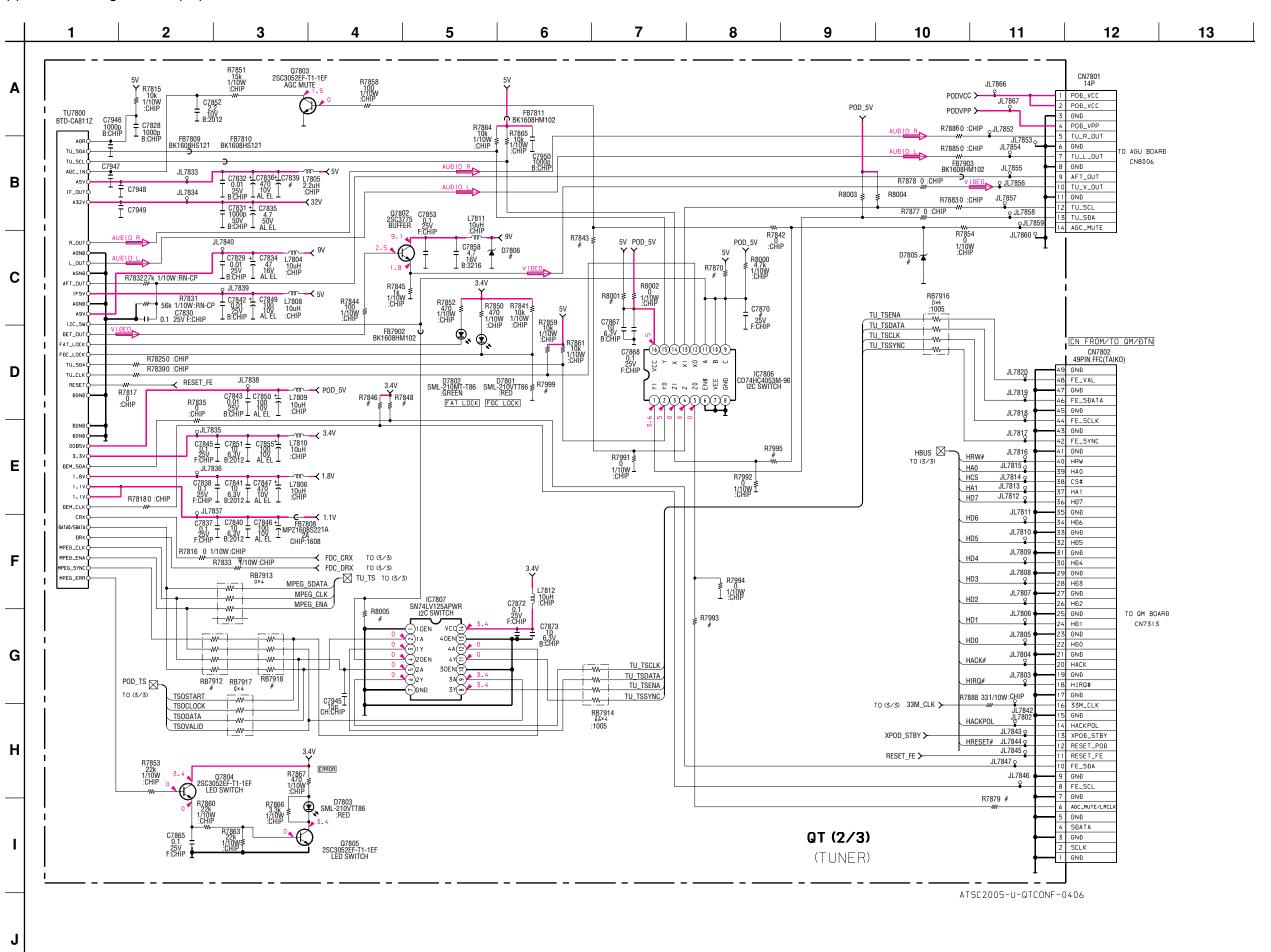
(5) Schematic Diagram of K Board



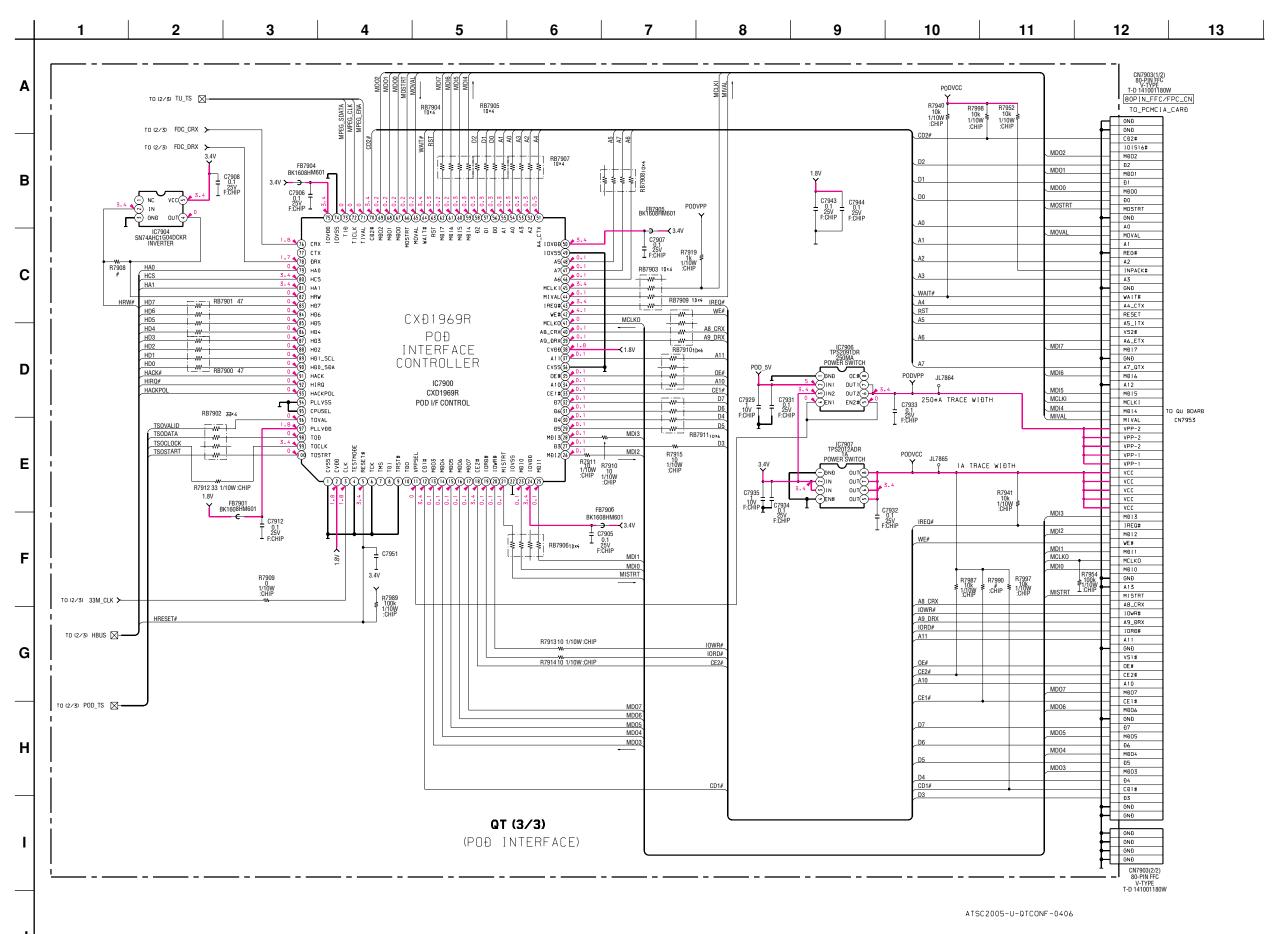
(6) Schematic Diagram of QT (1/3) Board



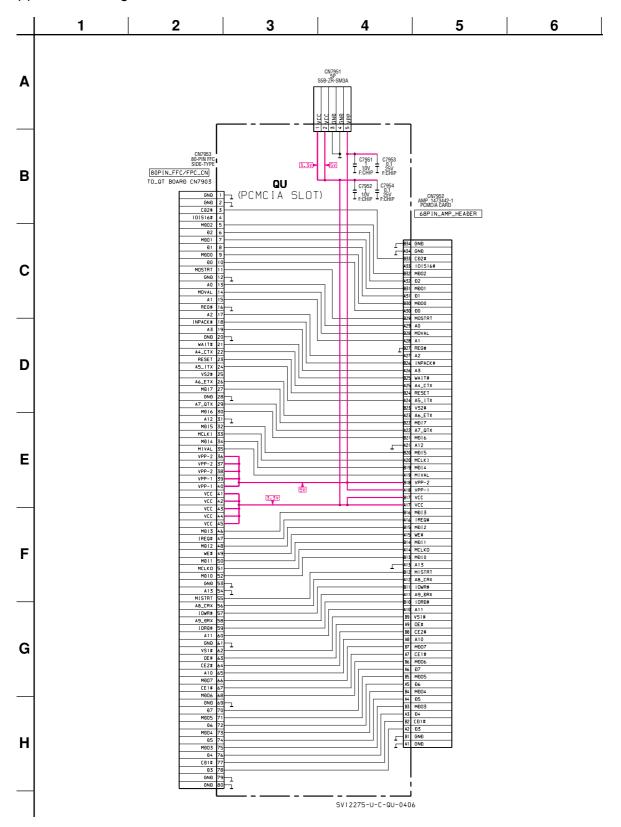
(7) Schematic Diagram of QT (2/3) Board



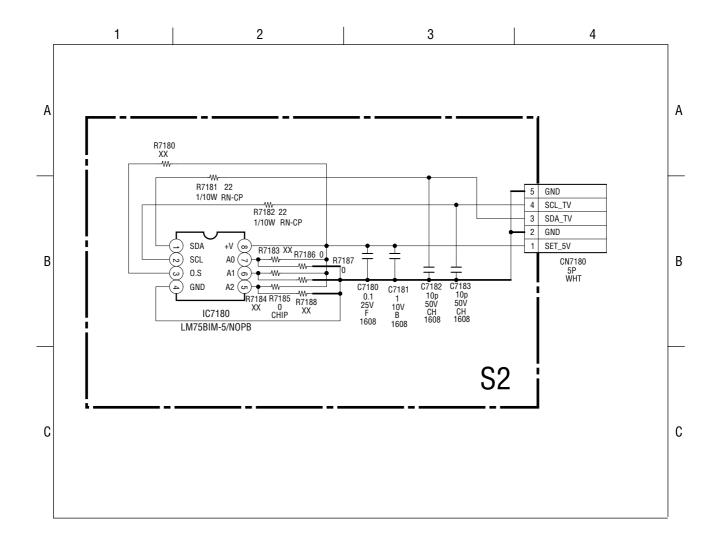
(8) Schematic Diagram of QT (3/3) Board



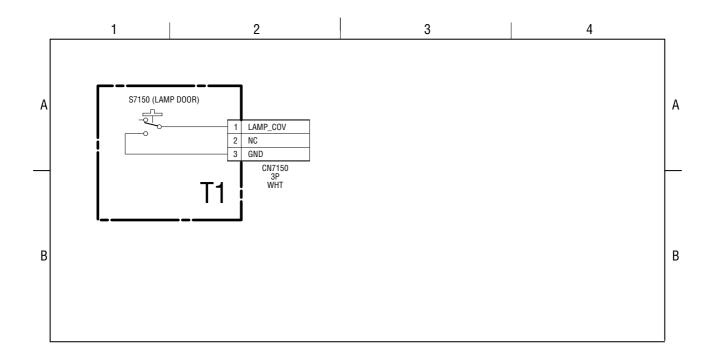
(9) Schematic Diagram of QU Board



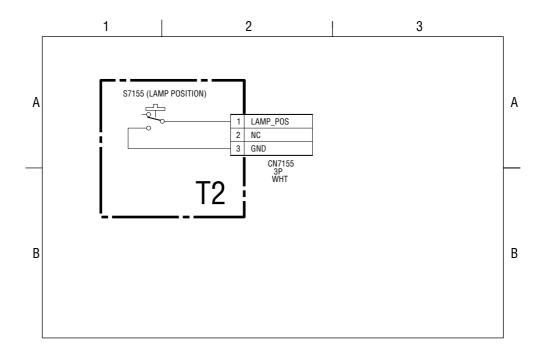
(10) Schematic Diagram of S2 Board



(11) Schematic Diagram of T1 Board

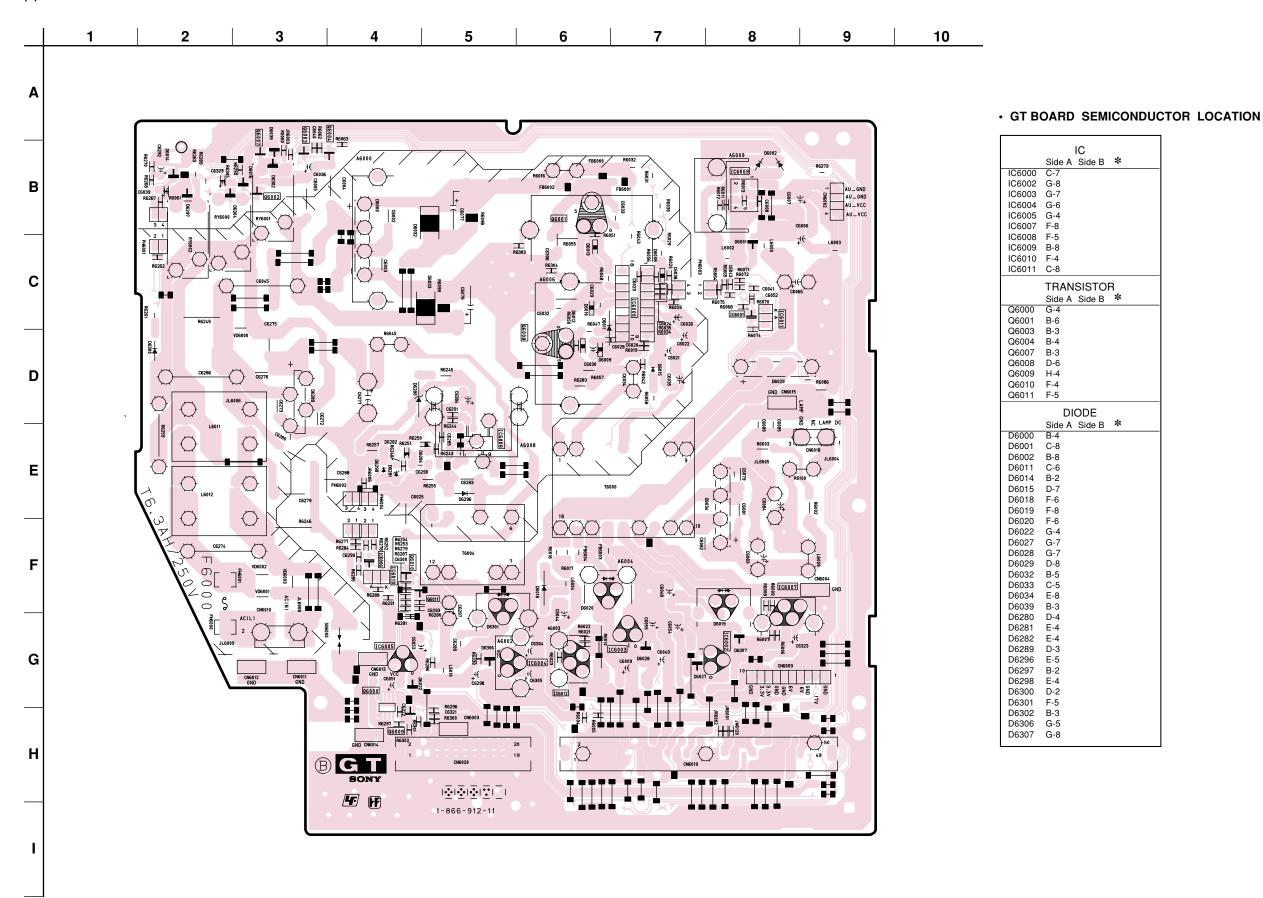


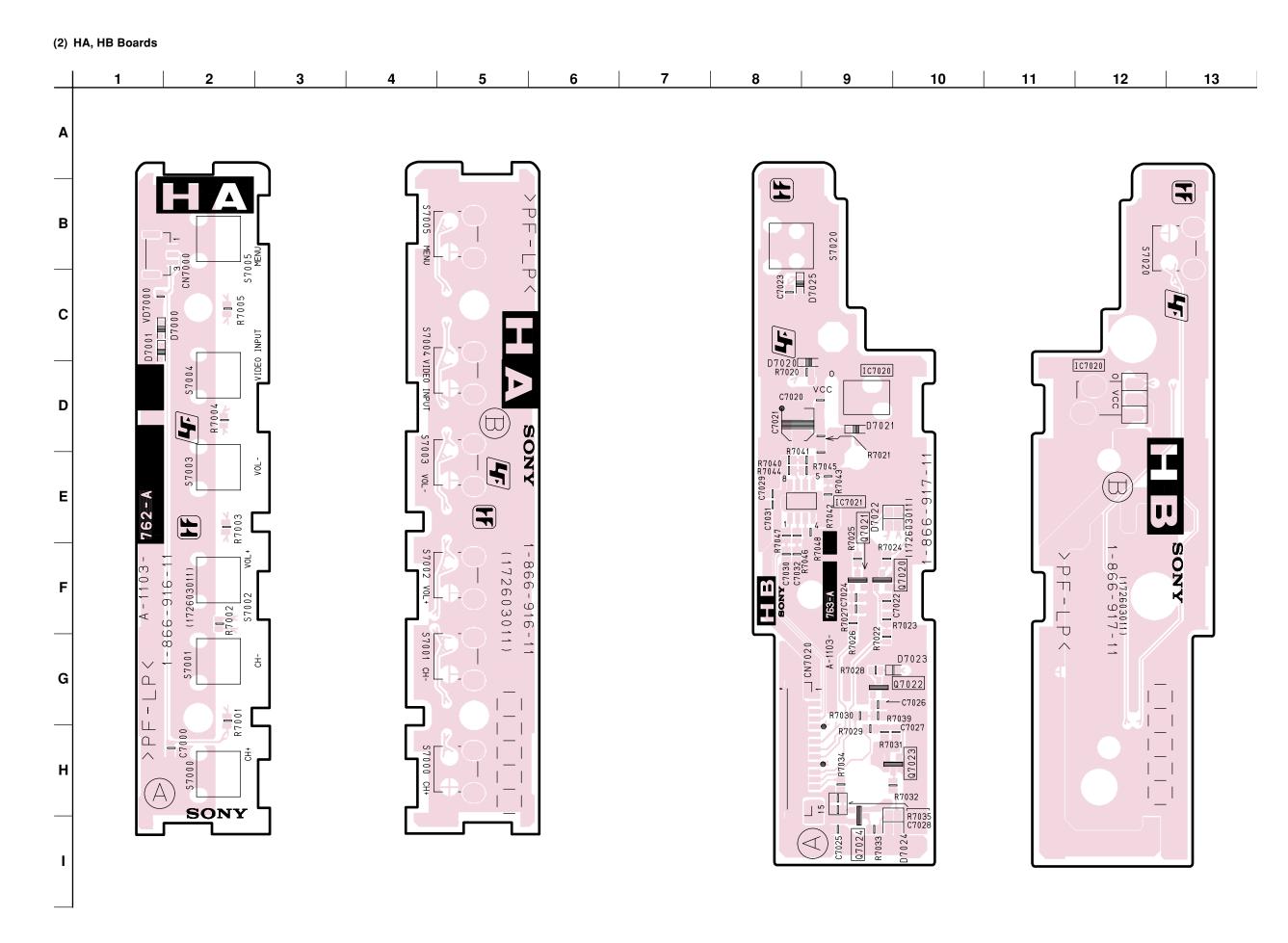
(12) Schematic Diagram of T2 Board

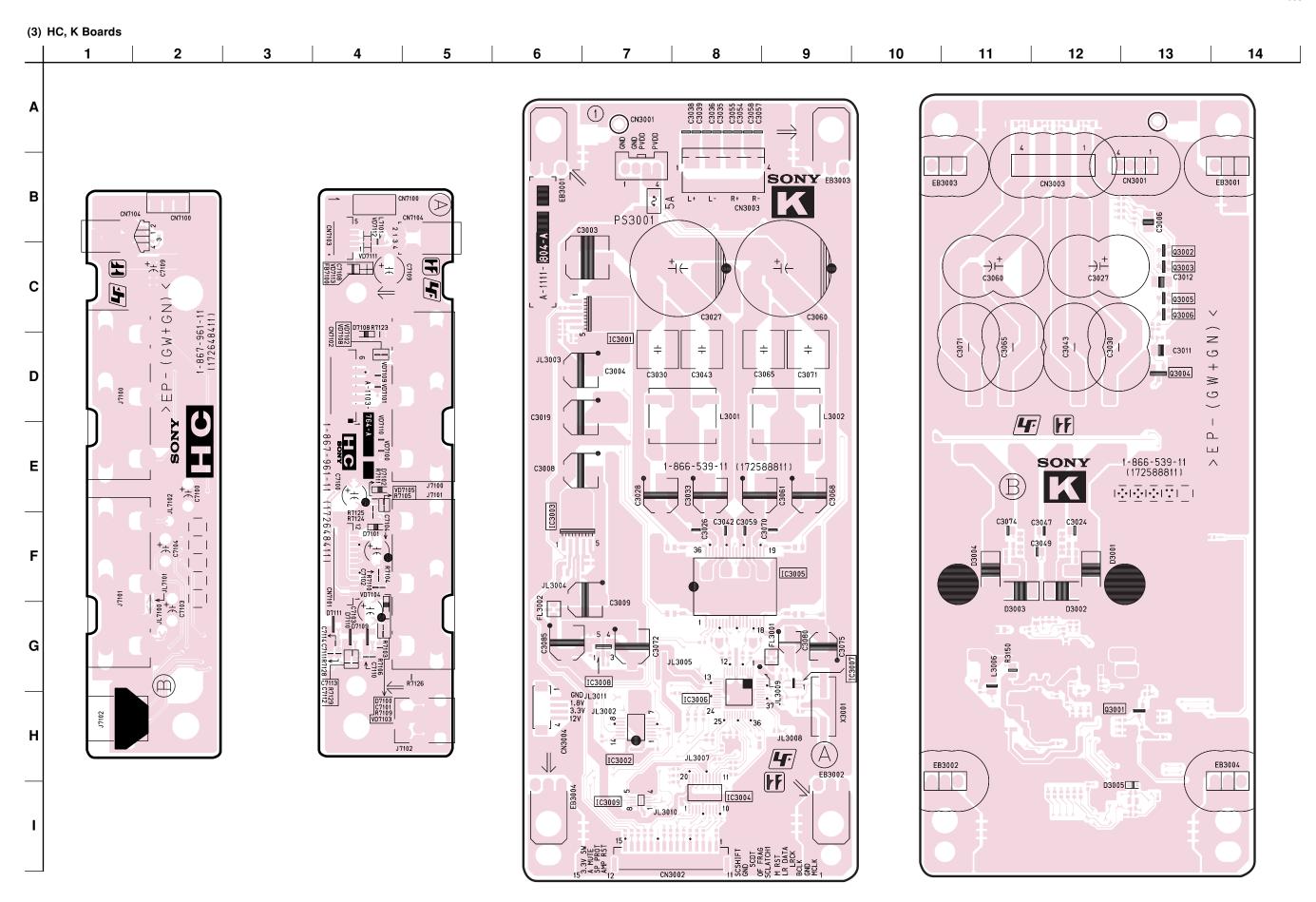


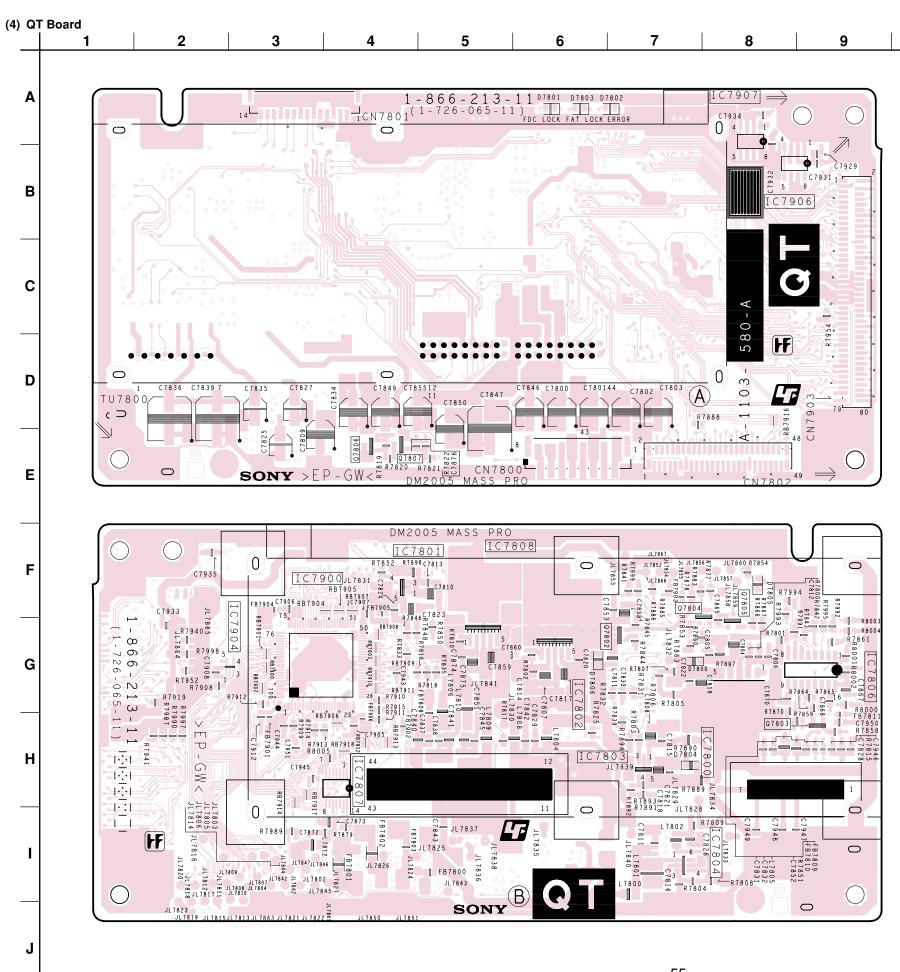
4-5. PRINTED WIRING BOARDS

(1) GT Board







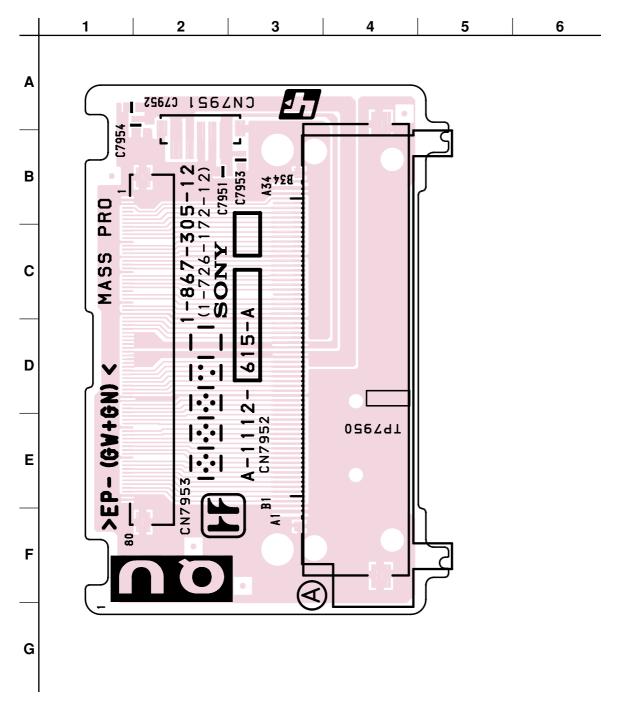


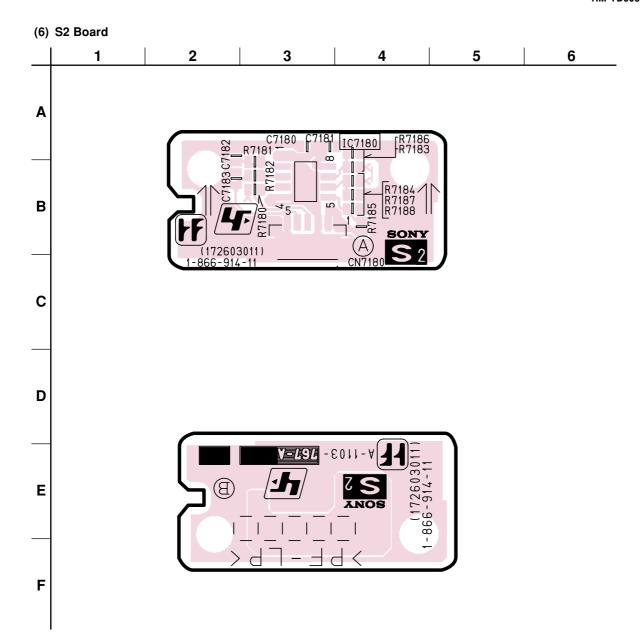
QT BOARD SEMICONDUCTOR LOCATION

	IC
	Side A Side B
IC7800	H-8
IC7801	
IC7802	
IC7803	* * *
IC7804	
IC7806	
IC7807 IC7808	
IC7808	• •
IC7900	
IC7904	
IC7907	
	-
	TRANSISTOR
	Side A Side B
Q7802	G-7
Q7803	
Q7804	- '
Q7805	
Q7806	
Q7807	E-4
	DIODE
	Side A Side B
D7801	A-6
D7802	
D7803	A-6

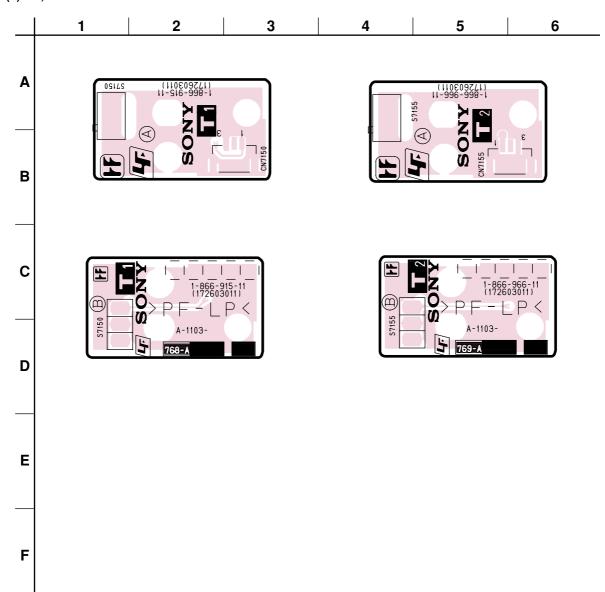
10

(5) QU Board





(7) T1, T2 Boards



4-6. SEMICONDUCTORS

LM75BIM-5/NOPB M24C02-WMN6T(B)



8 PINS



18 PINS

MM1431ATT NJM2870F18 (TE2) XXC6219B182MR



5 PINS

NJM2387DL2-TE1



PQ1CG2032FZ



PQ30RV11



RPM7240-H8



2SC1623-L5L6 UPA1716G



10ERB20-TB3 UF4005/23



1SS184



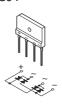
D10SC4M-F D10SC6M-4012



D2L20U-TA RD8.2ES-B2



D2SB60A-F04 D2SB60L D4SBL40 D4SBS6-F



D5LC20U-4012



DTZ10B HZU5.6GTRF MA111-TX UDZS-TE17-5.6B



ERA22-08TP3



P6SMB39AT3 S3G



SML-020MVT-T86



SML-210MT-T86 SML-210VTT86 SML-310LTT86



RM-YD003 RM-YD003

NOTE:

- · Items with no part number and no description are not stocked because they
- are seldom required for routine service

 The construction parts of an assembled part are indicated with a collation number in the remark column.
- · Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

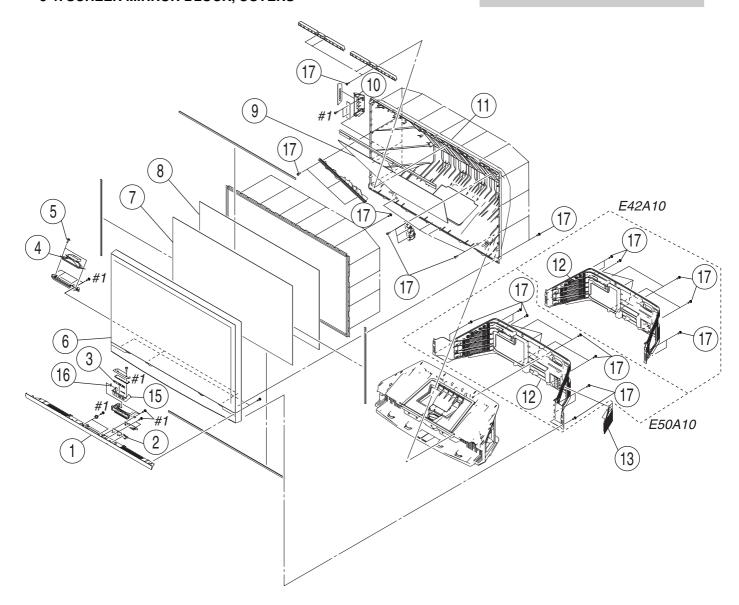
SECTION 5

EXPLODED VIEWS

The components identified by shading and mark $\underline{\Lambda}$ are critical for safety. Replace only with part number specified.

Les composants identifies par une trame et une marque $\dot{\underline{\mathbb{M}}}$ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

5-1. SCREEN MIRROR BLOCK, COVERS

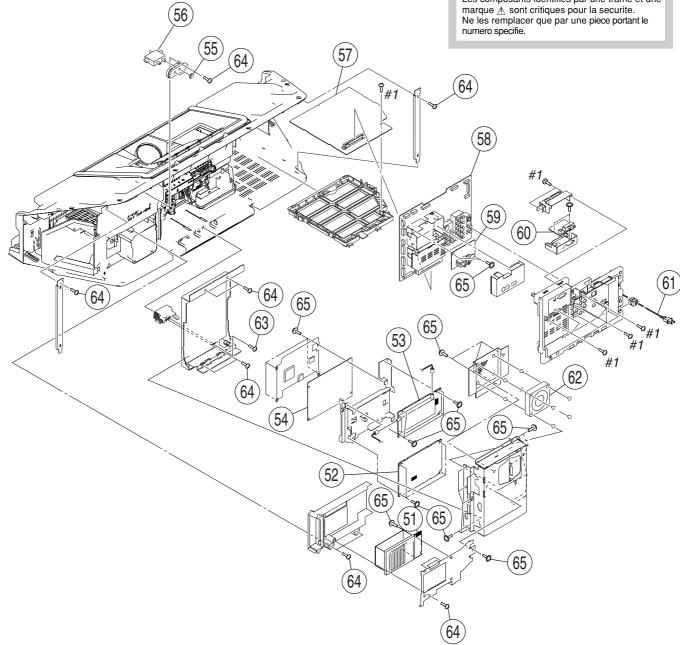


REF. NO.	PART NO.	<u>DESCRIPTION</u>	<u>REMARK</u>	REF. NO.	PART NO.	DESCRIPTION		<u>REMARK</u>
1	2-590-903-01	GRILL, SPEAKER (42)	(E42A10)	9	A-1127-077-	A MIRROR ASSY	(E42A10)	
1	2-590-908-01	GRILL, SPEAKER (50)	(E50A10)	10	2-590-909-01	BRACKET, HC (50))	(E50A10)
2	2-590-913-01	BUTTON, POWER						
3	2-590-914-01	BUTTON, MULTI		11	A-1127-075-A	A MIRROR COVER	ASSY	(E50A10)
4	1-826-219-11	LOUD SPEAKER (5X15cm)		11	A-1127-078-	A MIRROR COVER	ASSY	(E42A10)
				12	2-591-155-01	COVER,REAR	(E50A10)	
5	2-580-654-01	SCREW, +PWTP2 4X16		12	2-591-155-11	COVER,REAR	(E42A10)	
6	A-1127-073-A	A SCREEN FRAME ASSY	(E50A10)	13	2-591-156-01	DOOR,LAMP		
6	A-1127-076-A	A SCREEN FRAME ASSY	(E42A10)					
7	2-590-449-11	PLATE(42L), DIFFUSION	(E42A10)	14	4-097-548-01	CUSHION, FOOT		
7	2-590-451-11	PLATE(50L), DIFFUSION	(E50A10)	15	2-590-915-01	TRAY, CONTROL		
				16	2-593-048-01	DAMPER		
8	2-590-450-11	PLATE(42F), DIFFUSION	(E42A10)	17	2-580-640-01	SCREW, +BVTP2	4X16	
8	2-590-452-11	PLATE(50F), DIFFUSION	(E50A10)					
9	A-1127-074-	A MIRROR ASSY (E50A10)		#1	7-685-648-79	SCREW +BVTP 32	K12 TYPE2	IT-3

5-2. B BLOCK, CHASSIS ASSEMBLY

The components identified by shading and mark $\underline{\Lambda}$ are critical for safety. Replace only with part number specified.

Les composants identifies par une trame et une marque \triangle sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

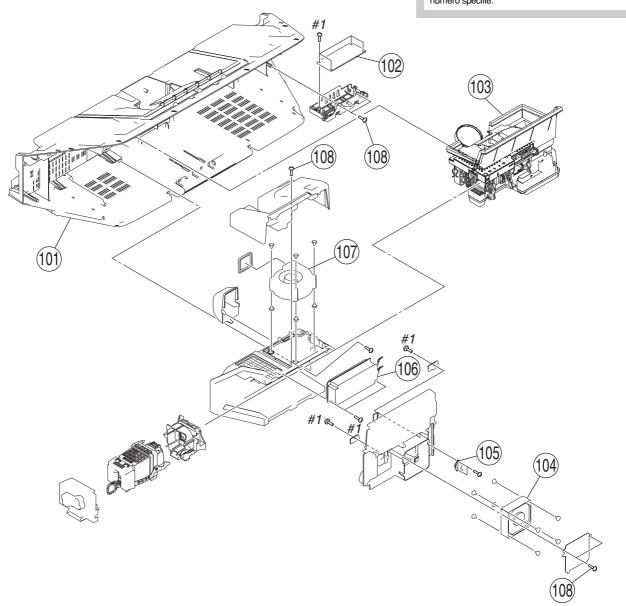


REF. NO	D. PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	* A-1073-391-A	QU BOARD, COMPLETE		60	A-1138-521	-A HPC BOARD, COMPLETE	
52	A-1129-347-A	QM BOARD, COMPLETE					
53	A-1103-580-A	QT BOARD, COMPLETE		61	△ 1-791-192-2	21 CORD, NOISE FILTER WITH PO	OWER
54	A-1129-348-A	B BOARD, COMPLETE		62	△ 1-787-333-	11 D.C. FAN	
55	3-682-691-00	NUT, WASHER HEXAGON		63	3-701-810-	72 SCREW, TERMINAL	
				64	2-580-640-6	01 SCREW, +BVTP2 4X16	
56	8-597-504-00	ANTENNA SWITCHE RFD-SA811		65	2-580-593-0	01 SCREW, +PSW M3X8	
57	A-1113-732-A	GT BOARD, COMPLETE					
58	A-1129-346-A	AGU BOARD, COMPLETE		#1	7-685-648-	79 SCREW +BVTP 3X12 TYPE2 IT	-3
59	A-1129-345-A	P BOARD, COMPLETE					

5-3. LAMP DUCT ASSEMBLY, OPTICS UNIT BLOCK

The components identified by shading and mark $\underline{\Lambda}$ are critical for safety. Replace only with part number specified.

Les composants identifies par une trame et une marque <u>h</u> sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF. NO	D. PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
101	X-2055-656-1	CABINET ASSY, BOTTOM(42) (E	E42A10)	105	1-576-912-11	1 THERMOSTAT	
101	X-2055-653-1	CABINET ASSY, BOTTOM(50) (E	E50A10)	106	₾ 1-468-936-11	POWER SUPPLY BLOCK	
102	A-1115-002-A	K BOARD, COMPLETE		107	△ 1-787-231-11	D.C. FAN (SIROCCO)	
103	A-1123-069-A	OPTICS UNIT BLOCK ASSY (E50	0A10)	108	2-580-640-01	1 SCREW, +BVTP2 4X16	
103	A-1123-071-A	OPTICS UNIT BLOCK ASSY (E4)	2A10)				
				#1	7-685-648-79	SCREW +BVTP 3X12 TYPE2 IT-	3
104	1-787-373-11	FAN,DC					

RM-YD003 RM-YD003

SECTION 6 ELECTRICAL PARTS LIST

The components identified by shading and mark \triangle are critial for safety. Replace only with part number specified.

Les composants identifies par une trame et une marque $\underline{\Lambda}$ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

When indicating parts by reference number, please include the board name.

Items marked " * " are not stocked since • RESISTORS they are seldom required for routine service. Some delay should be anticipated when ordering these items.

All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

All resistors are in ohms F: nonflammable

• CAPACITORS PF: μμF

• There are some cases the reference number on one board overlaps on the other board. Therefore, when ordering parts by the reference number, please include the board name.

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION		<u>R</u>	EMARK
	A-1113-732-A	GT BOARD, COM					↑ 1-119-888-51 ↑ 1-119-888-51		2200PF 2200PF	20% 20%	250V 250V
	4-382-854-01	SCREW (M3X8), F	P, SW (+)			C6283 C6284	1-162-116-00 1-126-950-11		680PF 330UF	10% 20%	2KV 35V
						C6285	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
		< CAPACITOR >					1-165-530-31		0.47UF	10	0V
C6006	1 120 052 21	ELECT	470LIE	2007	251/	C6289	1-137-353-11		0.047UF	5%	100V
C6006 C6007	1-128-953-31 1-128-953-31		470UF 470UF	20%	25V 25V	C6290	1-137-365-11		0.0015UF		50V
C6007		CERAMIC CHIP	0.0022UF	20%	50V	C6291	1-162-964-11	CERAMIC CHIP	0.001UF	10%	50V
C6020		CERAMIC CHIP	0.0022UF 0.01UF	10%	25V	C(202	1 126 024 11	ELECT	220115	2001	1637
C6020	1-126-967-11		47UF	20%	50V	C6292	1-126-934-11		220UF	20%	16V
C0021	1-120-907-11	ELECT	4/01	2070	30 V	C6297	1-137-852-31		3300UF	20%	16V
C6022	1-126-962-11	FI FCT	3.3UF	20%	50V	C6298 C6299	1-126-935-11	CERAMIC CHIP	470UF 0.022UF	20% 10%	16V 25V
C6022		CERAMIC CHIP	0.01UF	10%	25V	C6299		CERAMIC CHIP	0.022UF 0.068UF	10%	25 V 16 V
C6024		CERAMIC CHIP	0.001UF	2%	50V	C0300	1-110-303-11	CERAINIC CHIP	0.00801	10%	10 V
C6026	1-126-964-11		10UF	20%	50V	C6304	1-126-947-11	EI ECT	47UF	20%	35V
C6028		CERAMIC CHIP	0.01UF	10%	25V	C6305	1-126-947-11		47UF	20%	35V
00020	1 102 > 70 11	obra avaro oraș	0.0101	10,0	20 1	C6323	1-126-935-11		470UF		16V
C6029	1-136-497-81	FILM	0.1UF	5%	50V	C0323	1 120 733 11	LLLC I	47001	2070	10 1
C6030	1-126-947-11	ELECT	47UF	20%	35V						
C6032	1-107-824-11	CERAMIC	220PF	5%	1KV			< CONNECTOR :	>		
C6033	1-107-824-11	CERAMIC	220PF	5%	1KV						
C6034	1-165-954-11	FILM	56000PF	3%	800V	CN6002	2 1-794-502-11	PIN, CONNECTO	R (B04B-PA	SK) 4F	,
								PIN, CONNECTO	,	/	
C6035	1-126-969-11	ELECT	220UF	20%	50V			PIN, CONNECTO			
C6036	1-126-963-11	ELECT	4.7UF	20%	50V	CN6011	1-695-915-11	TAB (CONTACT)	,		
C6039	1-126-963-11	ELECT	4.7UF	20%	50V	CN6012	2 1-695-915-11	TAB (CONTACT)			
C6040	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V						
C6041	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V	CN6013	1-695-915-11	TAB (CONTACT)	1		
								TAB (CONTACT)			
C6044	1-126-940-11		330UF	20%	25V			TAB (CONTACT)			
	1-165-530-31		0.47UF	10	0V			PIN, CONNECTO	,	,	
C6048	1-128-951-31		2200UF	20%	16V	CN6019	1-815-789-11	CONNECTOR, B	OARD TO B	OARD	50P
C6049	1-128-951-31		2200UF	20%	16V						
C6051	1-126-933-11	ELECT	100UF	20%	16V			DIODE			
C6052	1-137-190-91	еп м	0.22UF	5%	50V			< DIODE >			
C6052	1-126-947-11		47UF	20%	35V	D(000	A 0 710 510 52	DIODE DACRO	ſ		
C6054	1-126-935-11		470UF	20%	16V	D6000 2		DIODE D4SB60 DIODE MC2838			
C6055	1-126-947-11		47UF	20%	35V	D6001		DIODE MC2838			
C6065	1-128-548-11		4700UF	20%	25V	D6011		DIODE UF4005/			
						D6011		DIODE MC2838			
C6077 △	1-131-940-11	ELECT	1200UF	20%	250V	20011	0 300 333 01	DIODE MC2050	1112 1		
	1-131-940-11		1200UF	20%		D6015	6-500-567-31	DIODE 10ERB2	0-TB3		
C6083	1-100-714-11	ELECT	100UF	20%	400V	D6018		DIODE D2L20U			
C6084	1-100-714-11	ELECT	100UF	20%	400V	D6019		DIODE D10SC6			
C6085	1-161-830-00	CERAMIC	0.0047UF	500V		D6020		DIODE D5LC20			
						D6022		DIODE MC2838			
	1-161-964-91		0.0047UF	250V							
	1-161-964-91		0.0047UF			D6027	6-500-335-01	DIODE MC2838	-T112-1		
	1-165-530-31		0.47UF	10		D6028		DIODE MC2838			
	1-161-964-91		0.0047UF			D6029	8-719-060-89	DIODE D4SBS6	-F		
C6276	1-161-964-91	CERAMIC	0.0047UF	250V		D6032		DIODE S3G			
06055	1 110 (10 11	DI DOM/DI GOTT	20115	20~	2501:	D6033	6-501-223-01	DIODE S3G			
C6277	1-113-610-11	ELECT(BLOCK) 2	20UF	20%	250V						

Les composants identifies par une trame et une marque \triangle sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark \triangle are critical for safety.

Replace only with part number specified.

KDF-E42A10/E50A10

RM-YD003 RM-YD003



									M I
REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
D6034	8-719-064-49	DIODE D4SBL40				< TRANSISTOR	< >		
D6039	6-500-335-01	DIODE MC2838-T112-1							
D6280		DIODE RD16FB2		Q6000	8-729-054-36	TRANSISTOR	UPA1716G-E2		
D6281		DIODE RD8.2ESB2		Q6001		TRANSISTOR			VΩ
				Q6001 Q6003		TRANSISTOR		25011	1,Q
D6282	6-300-367-31	DIODE 10ERB20-TB3						-	
				Q6004		TRANSISTOR			
D6289 △	8-719-077-76	DIODE D2SB60A-F04		Q6007	8-729-120-28	TRANSISTOR	2SC1623-L5L6	ó	
D6296	8-719-055-45	DIODE ERA22-08TP3							
D6297	6-500-335-01	DIODE MC2838-T112-1		Q6008	6-550-882-01	TRANSISTOR	2SK3568(LBS)	2SON	Y,O
D6298		DIODE 10ERB20-TB3		O6009		TRANSISTOR	,		, ,
D6300		DIODE ERA22-08		Q6010		TRANSISTOR			
D0300	0-717-740-43	DIODE ERAZZ-08		Q6010 Q6011		TRANSISTOR			
				Q0011	6-729-120-26	TRANSISTOR	25C1025-L3L0)	
D6301		DIODE D10SC6M-4012							
D6302	6-500-335-01	DIODE MC2838-T112-1							
D6306	6-500-335-01	DIODE MC2838-T112-1				< RESISTOR >			
D6307	6-500-335-01	DIODE MC2838-T112-1							
				R6002	1-215-904-11	METAL OXIDE	100K	5%	2W
				R6003		METAL OXIDE		5%	2W
		FLICE		R6005		SHORT CHIP	0	370	2 **
		< FUSE >						0.501	1 /1 0337
				R6006		METAL CHIP			1/10W
F6000 △	1-532-506-51	FUSE 6.3A 250	V	R6007	1-218-698-11	METAL CHIP	1.8K	0.5%	1/10W
				R6009	1-216-821-11	METAL CHIP	1K	5%	1/10W
		< FERRITE BEAD >		R6011	1-218-724-11	METAL CHIP		0.5%	1/10W
		<territe bead=""></territe>		R6012		METAL CHIP			1/10W
ED (000	1 410 206 41	EED DITTE 0.451 HJ							
	1-410-396-41			R6013		METAL CHIP			1/10W
FB6001	1-410-396-41	FERRITE 0.45UH		R6016	1-202-933-61	FUSIBLE	0.1	10%	1/2W
FB6002	1-410-396-41	FERRITE 0.45UH							
FB6003	1-412-911-11	FERRITE 0UH		R6017	1-249-377-11	CARBON	0.47	5%	1/4W
FB6004	1-412-911-11	FERRITE 0UH		R6018	1-249-377-11	CARBON	0.47	5%	1/4W
1 2000 1	1 112 /11 11	TERRITE VOII		R6019		METAL CHIP			1/10W
				R6020		METAL CHIP			1/10W
		< FUSE HOLDER >		R6029	1-245-472-21	METAL	270K	1%	1/4W
FH60004	1-533-223-11	FUSE HOLDER		R6030	1-245-471-21	METAL	240K	1%	1/4W
FH6001/2	1-533-223-11	FUSE HOLDER		R6031	1-245-471-21	METAL	240K	1%	1/4W
				R6032	1-245-471-21	METAL	240K	1%	1/4W
				R6035	1-218-877-11	METAL CHIP	18K	0.5%	1/10W
		<ic></ic>		R6042		METAL CHIP			1/10W
		< IC >		10012	1 211 //1 11	WEITHE CITI	02	0.5 /6	1,1011
10(000	6 705 010 01	IC MC72001DD		R6043	1-212-897-00	ELICIDI E	470	5%	1/4W
IC6000		IC MCZ3001DB							
IC6002		IC BA50BC0T		R6045	1-202-933-61				1/2W
IC6003	6-705-466-01	IC BA90BC0T		R6047	1-249-393-11			5%	1/4W
IC6004	6-705-464-01	IC BA50BC0T		R6048	1-249-393-11	CARBON		5%	1/4W
IC6005	6-705-464-01	IC BA50BC0T		R6050	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
IC6007	8-750-008-24	IC PO30RV11J00H		R6051	1-218-871-11	METAL CHIP	10K	0.5%	1/10W
IC6007		IC MR4010-7103		R6054	1-245-494-31			2%	1/4W
				R6055	1-245-494-31			2%	
IC6009		IC PQ1CG2032FZ							1/4W
IC6010		IC MM1431ATT		R6056		METAL CHIP		5%	1/10W
IC6011	8-759-682-42	IC MM1431ATT		R6057	1-243-979-71	METAL OXIDE	0.1	5%	2W
				R6058	1-249-385-11	CARBON	2.2	5%	1/4W
		<coil></coil>		R6059	1-216-864-11	SHORT CHIP	0		
				R6060	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
L6000	1-406-659-11	INDUCTOR 10UH		R6061		METAL CHIP		5%	1/10W
	1-419-742-12			R6062		METAL CHIP		5%	1/10W
L6002				K0002	1-210-033-11	METAL CITI	101	5 /0	1/10 **
L6003	1-406-659-11			D.(0/2	1 21 6 021 11	METAL CITIE	177	5 01	1 (1 0337
L6004	1-412-525-31			R6063		METAL CHIP		5%	1/10W
L6009	1-406-983-11	INDUCTOR 1MH		R6064		METAL CHIP	1K	5%	1/10W
				R6065	1-216-821-11	METAL CHIP	1K	5%	1/10W
L6010	1-406-661-21	INDUCTOR 22UH		R6068	1-216-864-11	SHORT CHIP	0		
		LINE FILTER COIL		R6070		METAL CHIP		5%	1/10W
		LINE FILTER COIL			11				-, - 0
L0012 ZI	1-420-039-11	EIRE FIETER COIL		R6072	1_218 722 11	METAL CHIP	18K	0 501	1/10W
									•
				R6074		METAL CHIP			1/10W
		< PHOTOCOUPLER >		R6086		METAL OXIDE		5%	1W
				R6089		SHORT CHIP	0		
PH6001/	6-600-187-01	PHOTOCOUPLER PC123Y22JOO	F	R6098	1-220-340-11	METAL CHIP	470K	5%	1/2W
		PHOTOCOUPLER PC123Y22JOO							
		PHOTOCOUPLER PC123Y22JOO		R6099	1-220-340-11	METAL CHIP	470K	5%	1/2W
				R6100	1-202-933-61				1/2W
PH0004/2	70-000-18/-01	PHOTOCOUPLER PC123Y22JOO	r						
				R6243		METAL CHIP		5%	1/10W
				R6244		METAL CHIP			1/10W
				R6245	1-215-865-11	METAL OXIDE	220	5%	1W

Les composants identifies par une trame et une marque Δ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

KDF-E42A10/E50A10 RM-YD003 RM-YD003

GT

HA



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION] [-		REMARK
R6246 ∧	1-219-568-91	METAL.	8.2M	5%	1/2W			< CONNECTOR :	>		
R6248		METAL CHIP	3.9K	5%	1/10W			CONTIDETOR			
R6249	1-219-759-11		1M	5%	1/2W	CN7000	1-819-445-11	HEADER ASSEM	IBLY FOR I	PWB 3	P
R6250		METAL CHIP	4.7K	5%	1/10W						
R6251	1-216-828-11	METAL CHIP	3.9K	5%	1/10W						
								< RESISTOR >			
R6252		METAL CHIP	22K	5%	1/10W						
R6253		METAL CHIP	10K	5%	1/10W	R7001		METAL CHIP	220		6 1/10W
R6254		METAL CHIP	10K	5%	1/10W	R7002		METAL CHIP	470		6 1/10W
R6255		METAL OXIDE	0.39	5%	1W	R7003		METAL CHIP METAL CHIP	910		5 1/10W 5 1/10W
R6257	1-210-349-00	METAL OXIDE	1	5%	1W	R7004 R7005		METAL CHIP	1.8K 3.9K		5 1/10W 5 1/10W
R6259	1-244-207-11	WIREWOUND	3.3	5%	10W	K7003	1-210-700-11	WILLIAL CITE	J./IX	0.5 /	1/10**
R6261	1-260-328-11		1K	5%	1/2W						
R6262		METAL CHIP	4.7K	5%	1/10W			< SWITCH >			
R6263	1-249-389-11	CARBON	4.7	5%	1/4W						
R6267	1-216-829-11	METAL CHIP	4.7K	5%	1/10W	S7000		SWITCH, TACTII			
						S7001		SWITCH, TACTII			
R6268		METAL CHIP	1K	5%	1/10W	S7002		SWITCH, TACTII			
R6273	1-249-389-11		4.7	5%	1/4W	S7003		SWITCH, TACTII			
R6277		METAL CHIP	1K	5%	1/10W	S7004	1-692-431-21	SWITCH, TACTII	LE		
R6278 R6279		METAL CHIP METAL CHIP	3.3K 100K	5% 5%	1/10W 1/10W	S7005	1 602 431 21	SWITCH, TACTII	I E		
K0279	1-210-643-11	METAL CHIP	100K	370	1/10 W	37003	1-092-431-21	SWITCH, IACIII	LE		
R6280	1-216-833-11	METAL CHIP	10K	5%	1/10W	*******	******	*******	******	****	*****
R6281		METAL CHIP	10K	5%	1/10W						
R6283		METAL OXIDE	0.1	5%	2W			HB MOUNT			
R6284		SHORT CHIP	0					******			
R6285	1-216-832-11	METAL CHIP	8.2K	5%	1/10W						
R6286		METAL CHIP	12K	5%	1/10W			< CAPACITOR >			
R6287		METAL CHIP	15K		1/10W	67020	1 164 156 11	CED A MIC CHID	0.1115		2511
R6288		METAL CHIP	4.7K	0.5%	1/10W	C7020		CERAMIC CHIP	0.1UF	200	25V
R6291 R6296		SHORT CHIP METAL CHIP	0 1K	5%	1/10W	C7021 C7022	1-126-964-11	CERAMIC CHIP	10UF 0.01UF	20%	50V 50V
K0290	1-210-621-11	WIETAL CITI	1 IX	3 /0	1/10 W	C7022		CERAMIC CHIP	0.01UF		50V
R6297	1-216-801-11	METAL CHIP	22	5%	1/10W	C7024		CERAMIC CHIP	0.01UF		50V
R6300		METAL CHIP	1K	5%	1/10W	0,02.	1 102 > , . 11	ozna zomo omi	0.0101		50.
R6301		SHORT CHIP	0			C7025	1-164-156-11	CERAMIC CHIP	0.1UF		25V
R6302	1-216-845-11	METAL CHIP	100K	5%	1/10W	C7026	1-162-974-11	CERAMIC CHIP	0.01UF		50V
R6339	1-216-864-11	SHORT CHIP	0			C7027		CERAMIC CHIP	0.01UF		50V
						C7028		CERAMIC CHIP	0.01UF		50V
		DEL AV				C7029	1-164-156-11	CERAMIC CHIP	0.1UF		25V
		< RELAY >				C7030	1 162 015 11	CERAMIC CHIP	10PF	0.50	PF 50V
RV6 001 ∕ì	1_755_388_11	RELAY (AC POW	ED)			C7030		CERAMIC CHIP	1UF		10V
		RELAY (AC POW				C7031		CERAMIC CHIP	10PF		PF 50V
111 00022	21 755 566 11	REELII (HETOW	LIV)			07032	1 102)13 11	CERT EVITC CITI	1011	0.50	11 50 1
		< SPARK GAP>						< DIODE >			
SG6000	1-576-487-11	ELEMENT, SPAR	K			D7022		DIODE SML-020			
						D7023		DIODE SML-310			
		- TD ANGEODME	D s			D7024	6-500-861-01	DIODE SML-020	JM V 1-186		
		< TRANSFORME	K >								
T6000 ∧	1-443-747-11	TRANSFORMER	(PIT)					< IC >			
		TRANSFORMER	. ,								
						IC7020	6-600-210-01	IC RPM7240-H8			
						IC7021	6-707-223-01	IC LM75BIM-5/	NOPB		
		< VARISTOR >									
	1-804-992-21							< TRANSISTOR :	>		
	1-804-991-21					07020	0.720.120.20	TD ANGICTOD 2	CC1/22 I 5	1.6	
V D00032	1-804-991-21	VARISTOR				Q7020 Q7021		TRANSISTOR 2 TRANSISTOR 2			
*******	******	******	******	****	*****	Q7021 Q7022		TRANSISTOR 2			
						Q7022 Q7023		TRANSISTOR 2			
		HA MOUNT				Q7023 Q7024		TRANSISTOR 2			
		******								-	
								< RESISTOR >			
		< CAPACITOR >									4 1- 0
C7000	1 100 507 01	CED A MIC CITY	0.1175	100	2537	R7020		METAL CHIP	1.5K	5%	1/10W
C7000	1-100-59/-91	CERAMIC CHIP	U.IUF	10%	25V	R7021	1-210-805-11	METAL CHIP	47	5%	1/10W
						1					

RM-YD003 RM-YD003

								нв∥н	C	Hŀ	C
REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R7022		METAL CHIP	10K	5%	1/10W	R7125		METAL CHIP	220	0.5%	1/10W
R7023		METAL CHIP	10K	5%	1/10W						-,
R7024	1-216-813-11	METAL CHIP	220	5%	1/10W	R7126		SHORT CHIP	0	5.01	1/10337
R7025	1-216-813-11	METAL CHIP	220	5%	1/10W	R7128 R7129		METAL CHIP METAL CHIP	10 10	5% 5%	1/10W 1/10W
R7026	1-216-833-11	METAL CHIP	10K	5%	1/10W	,,				- /-	-, · ·
R7027		METAL CHIP	10K	5%	1/10W						
R7028 R7029		METAL CHIP METAL CHIP	220 10K	5% 5%	1/10W 1/10W			< VARISTOR >			
K/029	1-210-655-11	WIETAL CITI	TOIX	3 /0	1/10 W	VD7100	1-803-974-21	VARISTOR, CHIP	(1608)		
R7030		METAL CHIP	10K	5%	1/10W			VARISTOR, CHIP			
R7031		METAL CHIP	10K	5%	1/10W			VARISTOR, CHIP	` /		
R7032 R7033		METAL CHIP METAL CHIP	220 220	5% 5%	1/10W 1/10W			VARISTOR, CHIP VARISTOR, CHIP	. ,		
R7034		METAL CHIP	10K	5%	1/10W	,2,10,	1 000 77 . 21	vinus rort, erm	(1000)		
D7025	1 217 822 11	METAL CHID	1017	F.01	1/10337	VD7110	1-803-974-21	VARISTOR, CHIP	(1608)		
R7035 R7039		METAL CHIP METAL CHIP	10K 10K	5% 5%	1/10W 1/10W	******	******	*******	******	*****	******
R7046		METAL CHIP	22	5%	1/10W						
R7047	1-216-801-11	METAL CHIP	22	5%	1/10W			HPC MOUNT			

		< SWITCH >									
								< CAPACITOR >			
S7020	1-692-431-21	SWITCH, TACTIL	Е			G=200	4 407 006 44	ann i i aa arm	0.4775	100	
******	*******	******	******	*****	*****	C7200 C7201		CERAMIC CHIP CERAMIC CHIP	0.1UF 1UF	10% 10%	16V 16V
						C7202		CERAMIC CHIP	1UF	10%	16V
		HC MOUNT				C7205		CERAMIC CHIP	0.1UF	10%	16V
		*****				C7206	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
						C7207	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
		< CAPACITOR >									
C7101	1 162 064 11	CERAMIC CHIP	0.001UF	10%	50V			CONNECTOR >			
C7101 C7102		CERAMIC CHIP	0.001UF	10%	50V			< CONNECTOR >			
C7103	1-126-964-11		10UF	20%	50V	CN7200	1-794-930-21	CONNECTOR, D	SUB		
C7104	1-126-964-11		10UF	20%	50V						
C7111	1-102-927-11	CERAMIC CHIP	100PF	5%	50V			< DIODE >			
C7112	1-162-927-11	CERAMIC CHIP	100PF	5%	50V						
C7113		CERAMIC CHIP	0.022UF	10%	25V	D7203		DIODE HZU5.6G			
C7114	1-104-227-11	CERAMIC CHIP	0.022UF	10%	25V	D7204 D7205		DIODE HZU5.6G DIODE HZU5.6G			
						D7208		DIODE DTZ10B	110		
		< DIODE >				D7209	8-719-977-28	DIODE DTZ10B			
D7100	8-719-977-28	DIODE DTZ10B				D7210	8-719-404-50	DIODE MA111-T	X		
D7101		DIODE DTZ10B				D7210		DIODE DTZ10B	71		
D7102		DIODE UDZSTE-				D7213	8-719-801-78	DIODE 1SS184			
D7108 D7109		DIODE UDZSTE- DIODE MA3200V									
								< FERRITE BEAD	>		
D7110		DIODE MA3200V				ED 7200	1 460 100 21	EED D VIII	01111		
D7111	8-719-062-19	DIODE MA3200V	VA-1X				1-469-100-21 1-469-100-21		0UH 0UH		
							1-469-100-21		0UH		
		< JACK >				FB7204	1-400-141-22	FERRITE	0UH		
J7100	1-819-355-11	PHONO JACK 3P									
J7101		PHONO JACK 3P						< IC >			
J7102	1-568-267-11	JACK									
						IC7200	6-704-600-01	IC M24C02-WMN	N61(B)		
		< RESISTOR >									
D#102			22077	= ~/	4 14 0 7 7 7			< JACK >			
R7103 R7104		METAL CHIP METAL CHIP	220K 220K	5% 5%	1/10W 1/10W	J7200	1_573_708_11	JACK, MINIATUR	F (DIA 35)	
R7104		METAL CHIP	220K		1/10W	37200	1-3/3-/90-11	JACK, WIINIAI UK	E (DIA. 3.3	,	
R7106		METAL CHIP	100		1/10W						
R7109	1-216-821-11	METAL CHIP	1K	5%	1/10W			< IC LINK >			
R7110	1-216-821-11	METAL CHIP	1K	5%	1/10W	PS7200	1-576-122-21	IC LINK	0.4A	72V	
R7111	1-216-864-11	SHORT CHIP	0								
R7123 R7124		SHORT CHIP METAL CHIP	0 220	0.50	1/10W						
K/124	1-410-0/0-11	MILIAL CHIP	220	0.5%	1/10 **						

RM-YD003 RM-YD003

HPC



									1 11 \		1 /
REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
		<transistor></transistor>				C3036	1 115 330 11	CERAMIC CHIP	0.1UF	10%	50V
		< TRANSISTOR >				C3037		CERAMIC CHIP		10%	50V
07200	(550 014 01	TD A MCICTOD CO	CM/CNI1EELI	TEO 51	2)	C3037	1-104-937-11	CERAMIC CHIP	0.0010F	10%	30 V
Q7200	0-330-014-01	TRANSISTOR S	SMONISFU	(1E831)	()	62020		arr	0.477	100	-0
						C3038		CERAMIC CHIP		10%	50V
						C3039		CERAMIC CHIP		10%	50V
		< RESISTOR >				C3041	1-164-937-11	CERAMIC CHIP	0.001UF	10%	50V
						C3042	1-115-339-11	CERAMIC CHIP	0.1UF	10%	50V
R7200	1-216-853-11	METAL CHIP	470K	5%	1/10W	C3043	1-136-177-00	FILM	1UF	5%	50V
R7202	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R7205		METAL CHIP	47	5%	1/10W	C3044	1-16/1-037-11	CERAMIC CHIP	0.001UF	10%	50V
R7206		SHORT CHIP	0	370	1,10 **	C3045		CERAMIC CHIP		10%	50V
R7207	1-210-804-11	SHORT CHIP	0			C3046		CERAMIC CHIP		10%	50V
						C3047		CERAMIC CHIP		10%	25V
R7208	1-216-864-11	SHORT CHIP	0			C3048	1-107-820-11	CERAMIC CHIP	0.1UF		16V
R7209	1-216-805-11	METAL CHIP	47	5%	1/10W						
R7210	1-216-851-11	METAL CHIP	330K	5%	1/10W	C3049	1-163-989-11	CERAMIC CHIP	0.033UF	10%	25V
R7211	1-216-851-11	METAL CHIP	330K	5%	1/10W	C3050		CERAMIC CHIP		10%	50V
R7216		METAL CHIP	10K	5%	1/10W	C3051		CERAMIC CHIP		1070	16V
K/210	1-210-055-11	MILIAL CITI	101	3 /0	1/10**	C3051		CERAMIC CHIP			16V
D.7017	1 01 (000 11	METAL CITE	1077	5 ct	1 /1 0337					100	
R7217		METAL CHIP	10K	5%	1/10W	C3053	1-164-937-11	CERAMIC CHIP	0.001UF	10%	50V
R7218		METAL CHIP	47	5%	1/10W						
R7219	1-216-805-11	METAL CHIP	47	5%	1/10W	C3054	1-115-339-11	CERAMIC CHIP	0.1UF	10%	50V
R7222	1-216-864-11	SHORT CHIP	0			C3055	1-115-339-11	CERAMIC CHIP	0.1UF	10%	50V
R7223	1-216-864-11	SHORT CHIP	0			C3056	1-164-937-11	CERAMIC CHIP	0.001UF	10%	50V
						C3057		CERAMIC CHIP		10%	50V
R7227	1-216-821-11	METAL CHIP	1K	5%	1/10W	C3058		CERAMIC CHIP		10%	50V
R7229		METAL CHIP	100K			C3036	1-113-339-11	CERAMIC CHIF	0.101	10%	30 v
				5%	1/10W	62050		arr	0.477	100	-0
R7231		SHORT CHIP	0			C3059		CERAMIC CHIP		10%	50V
R7232	1-216-864-11	SHORT CHIP	0			C3060	1-112-030-31	ELECT	1500UF	20%	35V
R7233	1-216-864-11	SHORT CHIP	0			C3061	1-128-992-21	ELECT CHIP	47UF	20%	25V
						C3062	1-164-937-11	CERAMIC CHIP	0.001UF	10%	50V
R7234	1-216-864-11	SHORT CHIP	0			C3063	1-164-937-11	CERAMIC CHIP	0.001UF	10%	50V
R7235		SHORT CHIP	0								
10,233	1 210 001 11	bilotti cim	Ü			C3065	1-136-177-00	EII M	1UF	5%	50V
*****	· • • • • • • • • • • • • • • • •	******			****					370	
4. 4. 4. 4. 4. 4. 4. 4. 4. 4.						C3067		CERAMIC CHIP		2001	16V
						C3068		ELECT CHIP	47UF	20%	25V
	A-1115-002-A	K BOARD, COMF				C3070	1-115-339-11	CERAMIC CHIP	0.1UF	10%	50V
		*****	****			C3071	1-136-177-00	FILM	1UF	5%	50V
						C3072	1-128-995-21	ELECT CHIP	100UF	20%	10V
		< CAPACITOR >				C3073		CERAMIC CHIP		10%	50V
		(Chiriciton)				C3074		CERAMIC CHIP		10%	25V
C2001	1 107 920 11	CERAMIC CHIP	0.1115		161						
C3001			0.1UF	100	16V	C3075		ELECT CHIP	22UF	20%	16V
C3002		CERAMIC CHIP	0.001UF	10%	50V	C3076	1-164-360-11	CERAMIC CHIP	0.1UF		16V
C3003	1-128-404-11	ELECT CHIP	100UF	20%	35V						
C3004	1-117-681-11	ELECT CHIP	100UF	20%	16V	C3077	1-165-128-11	CERAMIC CHIP	0.22UF		16V
C3005	1-107-820-11	CERAMIC CHIP	0.1UF		16V	C3078	1-165-128-11	CERAMIC CHIP	0.22UF		16V
						C3079	1-100-567-81	CERAMIC CHIP	10000PF	10%	25V
C3006	1-164-506-11	CERAMIC CHIP	4.7UF		16V	C3080		ELECT CHIP	22UF	20%	10V
C3007		CERAMIC CHIP	0.1UF		16V	C3081		CERAMIC CHIP		2070	16V
C3007		ELECT CHIP	100UF	20%	16V	C3081	1-107-020-11	CERAMIC CIII	0.101		10 V
						G2002	4 407 000 44	arr	0.477		4.077
C3009		ELECT CHIP	100UF	20%	6.3V	C3082		CERAMIC CHIP			16V
C3010	1-107-820-11	CERAMIC CHIP	0.1UF		16V	C3083		CERAMIC CHIP			16V
						C3084	1-100-567-81	CERAMIC CHIP	10000PF	10%	25V
C3011	1-164-506-11	CERAMIC CHIP	4.7UF		16V	C3085	1-128-995-21	ELECT CHIP	100UF	20%	10V
C3012	1-164-506-11	CERAMIC CHIP	4.7UF		16V	C3086	1-164-850-11	CERAMIC CHIP	10PF	0.50P	F 50V
C3013		CERAMIC CHIP	0.1UF		16V						
C3019		ELECT CHIP	100UF	20%	16V	C3088	1 100 567 81	CERAMIC CHIP	10000PF	10%	25W
C3020		CERAMIC CHIP	0.1UF	2070	16V			CERAMIC CHIP			50V
C3020	1-107-620-11	CERAMIC CHIP	0.101		10 V	C3090					
						C3091		CERAMIC CHIP			F 50V
C3021		CERAMIC CHIP	0.22UF		16V	C3094		CERAMIC CHIP			50V
C3022	1-107-820-11	CERAMIC CHIP	0.1UF		16V	C3095	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C3023	1-165-128-11	CERAMIC CHIP	0.22UF		16V						
C3024	1-163-989-11	CERAMIC CHIP	0.033UF	10%	25V	C3096	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
C3025		CERAMIC CHIP	680PF	10%	50V	C3097		CERAMIC CHIP		10%	50V
				- 70	•	C3099		CERAMIC CHIP		-070	16V
C3026	1_115 320 11	CERAMIC CHIP	0.1UF	10%	50V			CERAMIC CHIP			
						C3100					16V
C3027	1-112-030-31		1500UF	20%	35V	C3101	1-105-128-11	CERAMIC CHIP	0.22UF		16V
C3028		ELECT CHIP	47UF	20%	25V	_					
C3030	1-136-177-00		1UF	5%	50V	C3102	1-165-128-11	CERAMIC CHIP	0.22UF		16V
C3032	1-107-820-11	CERAMIC CHIP	0.1UF		16V						
C3033	1-128-992-21	ELECT CHIP	47UF	20%	25V			< CONNECTOR	>		
C3034		CERAMIC CHIP	0.001UF	10%	50V						
C3035		CERAMIC CHIP	0.1UF	10%	50V	CN3001	1-794-502-11	PIN, CONNECTO	OR (B04R-P4	SK) 41)
						22.0001		,	- (- 3 .2 11) 11	

RM-YD003 RM-YD003

03	RM-YD003
	K

REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
CN3002	1-819-443-11	HEADER ASEEMI	BLY FOR P	WB 15	 P	R3014	1-218-965-11	RES-CHIP	10K	5%	1/16W
		PIN, CONNECTOR				R3015	1-218-941-81		100	5%	1/16W
						R3016	1-218-965-11		10K	5%	1/16W
		< DIODE >				R3017	1-218-965-11		10K	5%	1/16W
						R3019	1-218-977-11		100K	5%	1/16W
D3001		DIODE P6SMB39				R3020	1-218-965-11		10K	5%	1/16W
D3002		DIODE P6SMB39 DIODE P6SMB39				R3021	1-218-978-11	RES-CHIP	120K	5%	1/16W
D3003 D3004		DIODE POSMB39				R3022	1-218-977-11	DEC CUID	100K	5%	1/16W
D3004	0-300-200-01	DIODE 1 03MB39	AIJ			R3022		SHORT CHIP	0	370	1/10 W
						R3023	1-218-965-11		10K	5%	1/16W
		< TERMINAL BOA	\RD >			R3024 R3025		METAL CHIP	3.3K		1/16W
		\ TERRING VIE DOI	IKD /			R3026		METAL CHIP	3.3K		1/16W
EB3001	1-537-771-21	TERMINAL BOAR	RD, GROUN	ND		10020	1 200 075 11	WE IT IE CITI	3.311	0.5 /6	1,1011
		TERMINAL BOAR				R3027	1-218-965-11	RES-CHIP	10K	5%	1/16W
						R3029	1-218-977-11		100K	5%	1/16W
						R3030	1-208-683-11	METAL CHIP	1K	0.5%	1/16W
		< FILTER >				R3032	1-218-933-11	RES-CHIP	22	5%	1/16W
						R3033	1-218-990-81	SHORT CHIP	0		
FL3001	1-234-177-21	FERRITE	0UH								
FL3002	1-234-177-21	FERRITE	0UH			R3034	1-218-965-11	RES-CHIP	10K	5%	1/16W
						R3035	1-218-977-11		100K	5%	1/16W
						R3036		SHORT CHIP	0		
		< IC >				R3037		SHORT CHIP	0		
TG2004	< 5 0< 0< 2 04	1G 1111 (220 ED) 4				R3038	1-218-978-11	RES-CHIP	120K	5%	1/16W
IC3001		IC NJM2387DL2-				D2020		DEG GIVE	40077	7 01	4 (4 (77)
IC3002		IC SN74LV08APV				R3039	1-218-977-11		100K	5%	1/16W
IC3003		IC NJM2387DL2-				R3040		SHORT CHIP	0		
IC3004 IC3005		IC SN74LVC541A IC CXD9845M	APWK			R3041		SHORT CHIP	0		
103003	0-707-029-01	IC CAD9643WI				R3042 R3043		SHORT CHIP SHORT CHIP	0		
IC3006	6-705-979-01	IC CXD9788AR				K3043	1-216-990-61	SHOKI CHIF	U		
IC3007		IC MC74VHC1GU	I04DFT1			R3044	1-218-965-11	RES-CHIP	10K	5%	1/16W
IC3008		IC NJM2870F18(7				R3045		SHORT CHIP	0	3 /0	1/10**
100000	0 700 200 01	10 1.01.120,01.10(. ,			R3046	1-218-965-11		10K	5%	1/16W
						R3047		SHORT CHIP	0		-,
		<coil></coil>				R3048		SHORT CHIP	0		
L3001	1-457-106-11	COIL,CHOKE 10U	Ή			R3049	1-218-990-81	SHORT CHIP	0		
L3002	1-457-106-11	COIL,CHOKE 10U	Ή			R3050	1-216-791-11	METAL CHIP	3.3	5%	1/10W
L3006	1-412-939-11	INDUCTOR	1UH			R3051	1-218-941-81	RES-CHIP	100	5%	1/16W
						R3052	1-218-941-81	RES-CHIP	100	5%	1/16W
						R3053	1-216-791-11	METAL CHIP	3.3	5%	1/10W
		< IC LINK >									
						R3054	1-218-941-81		100	5%	1/16W
PS3001	1-576-788-21	FUSE	5A	72V		R3055	1-218-965-11		10K	5%	1/16W
						R3056		METAL CHIP	18	5%	1/10W
		TD ANCIETOD				R3057	1-218-941-81		100	5%	1/16W
		<transistor></transistor>				R3059	1-218-941-81	RES-CHIP	100	5%	1/16W
Q3002	8-729-602-36	TRANSISTOR 2S	Δ1602-E			R3060	1 218 000 81	SHORT CHIP	0		
Q3002 Q3003		TRANSISTOR 2S				R3062		METAL CHIP	2.7	5%	1/10W
Q3003 Q3004		TRANSISTOR 2S		6		R3063		METAL CHIP	2.7	5%	1/10W
Q3005		TRANSISTOR 2S				R3064	1-218-941-81		100	5%	1/16W
Q3006		TRANSISTOR 2S				R3065	1-218-965-11		10K	5%	1/16W
						R3066	1-218-990-81	SHORT CHIP	0		
		< RESISTOR >				R3067	1-218-990-81	SHORT CHIP	0		
						R3070	1-218-945-11	RES-CHIP	220	5%	1/16W
R3001	1-218-990-81	SHORT CHIP	0			R3071	1-218-941-81	RES-CHIP	100	5%	1/16W
R3002	1-218-965-11	RES-CHIP	10K	5%	1/16W	R3072	1-218-990-81	SHORT CHIP	0		
R3003		SHORT CHIP	0								
R3004		SHORT CHIP	0			R3073		SHORT CHIP	0		
R3005	1-218-990-81	SHORT CHIP	0			R3075	1-218-945-11		220	5%	1/16W
D2007	1 200 027 11	METAL CLEE	4777	0.5~	1/1/337	R3076	1-218-972-11		39K	5%	1/16W
R3006		METAL CHIP	47K		1/16W	R3077		METAL CHIP	18	5%	1/10W
R3007		METAL CHIP	56K		1/16W	R3078	1-218-941-81	KES-CHIP	100	5%	1/16W
R3008		METAL CHIP	68K		1/16W	D2070	1 210 045 11	DEC CIUD	220	501	1/1/30
R3009 R3010		METAL CHIP	4.7K		1/16W	R3079	1-218-945-11		220 0	5%	1/16W
R3010	1-208-099-11	METAL CHIP	4.7K	0.5%	1/16W	R3082		SHORT CHIP		501	1/1600
R3011	1_218_000 81	SHORT CHIP	0			R3084 R3085	1-218-965-11	METAL CHIP	10 K 18	5% 5%	1/16W 1/10W
R3011	1-218-990-81		100	5%	1/16W	R3085 R3086	1-218-933-11		22	5% 5%	1/10W 1/16W
R3012 R3013	1-218-941-81		100	5%	1/16W 1/16W	13000	1-210-933-11	KLS-CIII	44	5 10	1/10 **
1.5015	- 210 / 11 01	-22 Jim	100	2 /0	-, -0 11	R3088	1-218-933-11	RES-CHIP	22	5%	1/16W
						-10000				- /-	-,

RM-YD003 RM-YD003





									7	.	U
REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
			0						0.1115	100/	16V
R3089		SHORT CHIP	0			C7824		CERAMIC CHIP	0.1UF	10%	
R3092		SHORT CHIP	0			C7825	1-128-996-11	ELECT CHIP	4.7UF	20%	50V
R3096	1-216-790-11	METAL CHIP	2.7	5%	1/10W						
R3097	1-216-790-11	METAL CHIP	2.7	5%	1/10W	C7826		CERAMIC CHIP	0.1UF		50V
						C7827	1-128-996-11	ELECT CHIP	4.7UF	20%	50V
R3098	1-218-990-81	SHORT CHIP	0			C7828	1-162-964-11	CERAMIC CHIP	0.001UF	10%	50V
R3100	1-216-800-11	METAL CHIP	18	5%	1/10W	C7829	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
R3101	1-216-791-11	METAL CHIP	3.3	5%	1/10W	C7830	1-164-156-11	CERAMIC CHIP	0.1UF		25V
R3102		METAL CHIP	3.3	5%	1/10W						
R3103		METAL CHIP	3.3	5%	1/10W	C7831	1-162-964-11	CERAMIC CHIP	0.001UF	10%	50V
103	1 210 //1 11	WEITE CITI	3.3	370	1/10 **	C7832		CERAMIC CHIP	0.001UF	10%	25V
R3104	1-218-945-11	DEC CHID	220	5%	1/16W	C7834		ELECT CHIP	47UF	20%	16V
R3104	1-218-943-11		100K	5%	1/16W 1/16W	C7835		ELECT CHIP	4.7UF	20%	50V
R3105		SHORT CHIP	0	370	1/10 W	C7836		ELECT CHIP	4.701 470UF	20%	10V
			-	5.01	1/1/337	C/830	1-128-390-11	ELECT CHIP	4/0UF	20%	10 V
R3107	1-218-989-11		1M	5%	1/16W	67927	1 164 156 11	CED A MIC CHID	0.1115		251
R3108	1-218-941-81	RES-CHIP	100	5%	1/16W	C7837		CERAMIC CHIP	0.1UF		25V
						C7838		CERAMIC CHIP	0.1UF		25V
R3111	1-218-945-11		220	5%	1/16W	C7840		CERAMIC CHIP	10UF	10%	6.3V
R3112	1-218-945-11		220	5%	1/16W	C7841		CERAMIC CHIP	10UF	10%	6.3V
R3113	1-218-990-81	SHORT CHIP	0			C7842	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
R3114	1-218-990-81	SHORT CHIP	0								
R3150	1-216-295-91	SHORT CHIP	0			C7843	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
						C7845	1-164-156-11	CERAMIC CHIP	0.1UF		25V
R3151	1-216-813-11	METAL CHIP	220	5%	1/10W	C7846	1-165-492-21	ELECT CHIP	100UF	20%	10V
R3152	1-216-864-11	SHORT CHIP	0		,	C7847	1-128-396-11	ELECT CHIP	470UF	20%	10V
R3153	1-216-864-11	SHORT CHIP	0			C7849	1-165-492-21	ELECT CHIP	100UF	20%	10V
R3154		SHORT CHIP	0			0,0.5	1 100 1,2 21	EEECT CIIII	10001	2070	10 .
R3155		SHORT CHIP	0			C7850	1-165-492-21	ELECT CHIP	100UF	20%	10V
K3133	1-210-004-11	SHOKI CIII	U			C7851		CERAMIC CHIP	10UF	10%	6.3V
D2156	1 216 964 11	CHODE CHID	0					CERAMIC CHIP	2.2UF	10%	10V
R3156		SHORT CHIP	0			C7852				10%	
R3157		SHORT CHIP	0			C7853		CERAMIC CHIP	0.1UF	2001	25V
R3158		SHORT CHIP	0			C7855	1-165-492-21	ELECT CHIP	100UF	20%	10V
R3159		SHORT CHIP	0								
R3164	1-218-990-81	SHORT CHIP	0			C7858		CERAMIC CHIP	4.7UF	10%	16V
						C7859	1-115-566-11	CERAMIC CHIP	4.7UF	10%	10V
						C7860	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
		< VIBRATOR >				C7865	1-164-156-11	CERAMIC CHIP	0.1UF		25V
						C7867	1-165-989-11	CERAMIC CHIP	10UF	10%	6.3V
X3001	1-795-660-21	QUARTZ CRYSTA	AL UNIT								
						C7868	1-164-156-11	CERAMIC CHIP	0.1UF		25V
*****	******	******	******	*****	*****	C7872	1-164-156-11	CERAMIC CHIP	0.1UF		25V
						C7873	1-165-989-11	CERAMIC CHIP	10UF	10%	6.3V
	A-1103-580-A	OT BOARD, COM	PLETE			C7874	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
		******				C7875		CERAMIC CHIP	4.7UF	10%	16V
						0,0,0	1 12, 020 11	0214 11110 01111	, 61	10,0	10.
						C7905	1-164-156-11	CERAMIC CHIP	0.1UF		25V
		< CAPACITOR >				C7906		CERAMIC CHIP	0.1UF		25V
		CAIACITOR >				C7907		CERAMIC CHIP	0.1UF		25V
C7800	1 127 765 21	ELECT CHIP	47UF	20%	16V	C7907		CERAMIC CHIP	0.1UF		25 V 25 V
						C7908 C7912		CERAMIC CHIP	0.1UF		25 V 25 V
C7801		ELECT CHIP	100UF	20%	10V	C/912	1-104-130-11	CERAMIC CHIP	0.10F		23 V
C7802		ELECT CHIP	100UF	20%	10V	67020	1 115 156 11	CED A MC CHID	11.15		1077
C7803		ELECT CHIP	100UF	20%	10V	C7929		CERAMIC CHIP	1UF		10V
C7804	1-100-159-91	CERAMIC CHIP	22UF	10%	6.3V	C7931		CERAMIC CHIP	0.1UF		25V
						C7932		CERAMIC CHIP	0.1UF		25V
C7805		CERAMIC CHIP	0.1UF	10%	16V	C7933		CERAMIC CHIP	0.1UF		25V
C7806		CERAMIC CHIP	1UF		10V	C7934	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C7807		CERAMIC CHIP	4.7UF	10%	16V						
C7808	1-127-820-11	CERAMIC CHIP	4.7UF	10%	16V	C7935	1-115-156-11	CERAMIC CHIP	1UF		10V
C7809	1-137-765-21	ELECT CHIP	47UF	20%	16V	C7943	1-164-156-11	CERAMIC CHIP	0.1UF		25V
						C7944	1-164-156-11	CERAMIC CHIP	0.1UF		25V
C7810	1-127-820-11	CERAMIC CHIP	4.7UF	10%	16V	C7945	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C7811		CERAMIC CHIP	0.022UF		50V	C7946	1-162-964-11	CERAMIC CHIP	0.001UF	10%	50V
C7812		CERAMIC CHIP	0.01UF	10%	25V	-			-	-	
C7813		CERAMIC CHIP	0.1UF	10%	16V	C7947	1-162-964-11	CERAMIC CHIP	0.001UF	10%	50V
C7814		CERAMIC CHIP	0.1UF	10%	16V	C7948		CERAMIC CHIP	0.001UF	10%	50V
C/017	1 10/ 020-11	CLAG IIVIIC CIIII	0.101	10/0	101	C7949		CERAMIC CHIP	0.001UF	10%	50V
C7815	1_107 826 11	CERAMIC CHIP	0.1UF	10%	16V	C7949 C7950		CERAMIC CHIP	0.001UF	10%	50V
				10%		C1930	1-102-904-11	CERAIVIIC CHIP	0.00101	10%	JU V
C7816		CERAMIC CHIP	0.022UF	100	50V						
C7817		CERAMIC CHIP	4.7UF	10%	10V			CONNECTOR			
C7818		CERAMIC CHIP	4.7UF	10%	16V			< CONNECTOR >			
C7819	1-100-159-91	CERAMIC CHIP	22UF	10%	6.3V						
								FFC/FPC CONNEC			
C7820		CERAMIC CHIP	0.1UF	10%	16V	CN7903	1-818-484-11	FFC/FPC CONNEC	CTOR (ZIF)	80P	
C7821		CERAMIC CHIP	0.1UF	10%	16V						
C7823	1-100-159-91	CERAMIC CHIP	22UF	10%	6.3V						



										<u> </u>
<u>REF. NO</u> .	PART NO.	DESCRIPTION		REMARK	<u>REF. NO</u> .	PART NO.	DESCRIPTION			REMARK
		< DIODE >			R7803		METAL CHIP	100	5%	1/10W
					R7804		METAL CHIP	1K	5%	1/10W
D7801		DIODE SML-210V			R7805		METAL CHIP	1K		1/10W
D7802		DIODE SML-210N			R7806	1-211-977-11	METAL CHIP	22	0.5%	1/10W
D7803	8-719-066-99	DIODE SML-210V	/TT86							
					R7807		METAL CHIP	200		1/10W
					R7808		METAL CHIP	100K	5%	1/10W
		< FERRITE BEAD	>		R7809		METAL CHIP	10K	5%	1/10W
ED7000	1 400 100 21	BUDLICEOD	01111		R7810		SHORT CHIP	0	F.01	1/10337
FB7800	1-400-180-21		0UH		R7815	1-216-833-11	METAL CHIP	10K	5%	1/10W
FB7801	1-400-089-21		0UH		R7816	1 216 964 11	SHORT CHIP	0		
FB7802	1-400-089-21 1-400-180-21		0UH 0UH		R7817		SHORT CHIP	0		
FB7803 FB7808	1-400-180-21		0UH		R7817		SHORT CHIP	0		
FD/606	1-400-160-21	INDUCTOR	ооп		R7819		METAL CHIP	22K	5%	1/10W
FB7809	1-414-226-21	FERRITE	0UH		R7820		METAL CHIP	10K	5%	1/10W
FB7810	1-414-226-21		0UH		1020	1 210 033 11	WEITE CHI	101	3 70	1/10**
FB7811	1-414-760-21		0UH		R7821	1-216-833-11	METAL CHIP	10K	5%	1/10W
FB7901	1-414-229-11		0UH		R7822		METAL CHIP	22K	5%	1/10W
FB7902	1-414-760-21		0UH		R7825		SHORT CHIP	0	- /-	-,
12,702	1 .11 ,00 21	1214112	0011		R7831		METAL CHIP	56K	0.5%	1/10W
FB7903	1-414-760-21	FERRITE	0UH		R7832		METAL CHIP	27K		1/10W
	1-414-229-11		0UH							,
FB7905	1-414-229-11		0UH		R7833	1-216-864-11	SHORT CHIP	0		
FB7906	1-414-229-11		0UH		R7835	1-216-864-11	SHORT CHIP	0		
					R7839	1-216-864-11	SHORT CHIP	0		
					R7841	1-216-833-11	METAL CHIP	10K	5%	1/10W
		< IC >			R7842	1-216-864-11	SHORT CHIP	0		
IC7800	6-708-112-01	IC MIC49300WR-	TR		R7844	1-216-809-11	METAL CHIP	100	5%	1/10W
IC7801		IC XC6219B182M			R7845		METAL CHIP	1K	5%	1/10W
IC7802	6-708-082-01	IC NJM2846DL2-0	05(TE2)		R7850	1-216-817-11	METAL CHIP	470	5%	1/10W
IC7803		IC MIC5235YM57	ΓR		R7851		METAL CHIP	15K	5%	1/10W
IC7804	8-749-925-00	IC TK11819MTL			R7852	1-216-817-11	METAL CHIP	470	5%	1/10W
IC7806		IC CD74HC4053M			R7853		METAL CHIP	22K	5%	1/10W
IC7807		IC SN74LV125AP			R7854		SHORT CHIP	0		
IC7808		IC NJM2846DL2-0	` /		R7858		METAL CHIP	100	5%	1/10W
IC7900		IC CXD1969R-T6			R7859		METAL CHIP	10K	5%	1/10W
IC7904	8-759-649-45	IC SN74AHC1G04	1DCKR		R7860	1-216-83/-11	METAL CHIP	22K	5%	1/10W
107006	6 706 011 01	IC TROGOGIAN			D7061	1 216 922 11	METAL CHID	1017	E 01	1/1037
IC7906		IC TPS2091DR			R7861		METAL CHIP	10K	5%	1/10W
IC7907	6-706-812-01	IC TPS2012ADR			R7863 R7864		METAL CHIP METAL CHIP	22K 10K	5% 5%	1/10W 1/10W
					R7865		METAL CHIP	10K	5% 5%	1/10W 1/10W
		<coil></coil>			R7866		METAL CHIP	3.3K	5% 5%	1/10W 1/10W
		COIL >			K/600	1-210-827-11	WEIALCIII	J.JK	3 /0	1/10 vv
L7800	1-414-755-11	INDLICTOR	22UH		R7867	1-216-817-11	METAL CHIP	470	5%	1/10W
L7801	1-412-642-61		1.2MH		R7877		SHORT CHIP	0	3 70	1/10**
L7802	1-414-755-11		22UH		R7878		SHORT CHIP	0		
L7804	1-414-754-11		10UH		R7883		SHORT CHIP	0		
L7805	1-414-752-11		2.2UH		R7885		SHORT CHIP	0		
_,,,,,										
L7806	1-414-754-11	INDUCTOR	10UH		R7886	1-216-864-11	SHORT CHIP	0		
L7808	1-414-754-11	INDUCTOR	10UH		R7888	1-216-803-11	METAL CHIP	33	5%	1/10W
L7809	1-414-754-11	INDUCTOR	10UH		R7890	1-216-295-91	SHORT CHIP	0		
L7810	1-414-754-11	INDUCTOR	10UH		R7891	1-218-867-11	METAL CHIP	6.8K	0.5%	1/10W
L7811	1-414-754-11	INDUCTOR	10UH		R7892	1-218-891-11	METAL CHIP	68K	0.5%	1/10W
L7812	1-414-754-11	INDUCTOR	10UH		R7893		METAL CHIP	470K		1/10W
					R7894		METAL CHIP	10K	5%	1/10W
					R7896		SHORT CHIP	0		
		<transistor></transistor>			R7897		SHORT CHIP	0		
07007	0.700 0:= ::	mp A Maraman	0255		R7909	1-216-864-11	SHORT CHIP	0		
Q7802		TRANSISTOR 2S			D7010	1 217 707 11	METAL CUID	10	E01	1/10337
Q7803		TRANSISTOR 2S			R7910		METAL CHIP	10	5%	1/10W
Q7804		TRANSISTOR 2S			R7911 R7912		METAL CHIP	10	5%	1/10W
Q7805		TRANSISTOR 2S					METAL CHIP	33	5%	1/10W
Q7806	6-729-600-22	TRANSISTOR 2S.	A1233-F		R7913 R7914		METAL CHIP	10 10	5% 5%	1/10W
07907	8 720 120 29	TD A NCICTOD AC	C1623 I 5I 4		K/914	1-210-797-11	METAL CHIP	10	5%	1/10W
Q7807	0-129-120-28	TRANSISTOR 2S	C1023-L3L0		R7915	1-216-707 11	METAL CHIP	10	5%	1/10W
					R7913 R7919		METAL CHIP	10 1K	5%	1/10W 1/10W
		< RESISTOR >			R7940		METAL CHIP	10K	5%	1/10W
		· KLOIDTOK /			R7940 R7941		METAL CHIP	10K	5%	1/10W
R7800	1-216-864-11	SHORT CHIP	0		R7952		METAL CHIP	10K	5%	1/10W
			-	ı			-		-	

Les composants identifies par une trame et une marque Δ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.

C7180

C7181

1-164-156-11 CERAMIC CHIP 0.1UF

1-165-908-11 CERAMIC CHIP 1UF

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

KDF-E42A10/E50A10

RM-YD003 RM-YD003

Ne les ren	nes pour la sect oplacer que par nt le numero spe	une	cal for sa Replace specified	only with pa	art num	ber	C	OT C	U S2	RM-	YD003	T2		
REF. NO.	PART NO.	DESCRIPTI	ION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK		
R7954	1-216-845-11			100K	5%	1/10W	C7182		CERAMIC CHIP	10PF	0.501	PF 50V		
R7934 R7987	1-216-833-11			100K	5%	1/10W 1/10W	C7182		CERAMIC CHIP	10FF		PF 50V		
R7989	1-216-845-11			100K	5%	1/10W	C7103	1 102 713 11	CERTAINIC CITI	1011	0.501	1 50 1		
R7991	1-216-864-11			0	370	1/10**								
R7992	1-216-864-11			0					< CONNECTOR :	>				
R7994	1-216-864-11	SHORT C	HIP	0			CN7180	1-819-333-11	HEADER ASSEM	IBLY FOR	R PWB 51	P		
R7997	1-216-833-11	METAL C	CHIP	10K	5%	1/10W								
R7998	1-216-833-11	METAL C	CHIP	10K	5%	1/10W								
R8000	1-216-829-11	METAL C	CHIP	4.7K	5%	1/10W			< IC >					
R8002	1-216-864-11	SHORT C	HIP	0										
							IC7180	6-707-223-01	IC LM75BIM-5/	NOPB				
		. NIPTING		MOTOD .										
		< NETWO	JKK RES	SISTOR >					, DECICTOR S					
DD7000	1-234-371-21	DEC MET	TWODY.	17	(100:	5 V 4)			< RESISTOR >					
	1-234-371-21				(100:		R7181	1-216-801-11	METAL CHIP	22	5%	1/10W		
	1-242-963-21				(100:		R7181		METAL CHIP	22	5%	1/10W		
	1-234-369-21				(100:	,	R7185		SHORT CHIP	0	3 10	1/10 **		
	1-234-369-21				(100:	,	R7186		SHORT CHIP	0				
TCD/701	1 23 1 30 7 21	TCLS, TCL	World	10	(100.	3211)	R7187		SHORT CHIP	0				
RB7905	1-234-369-21	RES. NET	WORK	10	(100:	5X4)	10,10,	1 210 00. 11	biloiti cilli	Ü				
	1-234-369-21				(100:		*******	******	************					
	1-234-369-21				(100:	5X4)								
RB7908	1-234-369-21	RES, NET	TWORK :	10	(100:	5X4)			T1 MOUNT					
RB7909	1-234-369-21	RES, NET	TWORK :	10	(100:	5X4)			*****					
	1-234-369-21				(100:	5X4)								
	1-234-369-21				(100:				< CONNECTOR :	>				
			TOR, NETWORK (2010X4)		G) 754.50	1 010 000 11								
	1-242-963-21				(100:		CN7150	1-819-336-11	HEADER ASSEM	IBLY FOR	RPWB 31	Р		
RB/916	1-234-400-21	CONDUC	TOR, NE	ETWORK	(2010	JX4)								
PR7017	1-234-400-21	CONDUC	TOD NE	TWODE	(2010	O V 4)			< SWITCH >					
KD/91/	1-234-400-21	CONDUC	JOK, NI	21 WOKK	(201)	JA4)			< SWITCH >					
							S7150	1-786-591-11	SWITCH, MICRO)				
		< TUNER	:>				3,100	1 ,00 0)1 11	5 111 011, 1110110					
							*******	******	******	*****	******	*****		
TU7800	8-597-505-00	TUNER U	JNIT, DIO	GITAL BTI	D-CA8	11 Z								
									T2 MOUNT					
*****	*********	******	******	*****	*****	*****			*****					
7	A-1073-391-A	QU BOAI					CMITCH							
		****	~~~~~	r~~~~~					< SWITCH >					
							S7155	1 786 501 11	SWITCH, MICRO	`				
		< CAPAC	TTOR \				3/133	1-760-391-11	SWITCH, MICKO	,				
		CAIAC	1101				*******	*****	******	******	******	*****		
C7951	1-115-156-11	CERAMIC	C CHIP	1UF		10V								
C7952	1-115-156-11	CERAMIO	C CHIP	1UF		10V			MISCELLANEOU	JS				
C7953	1-164-156-11	CERAMIO	C CHIP	0.1UF		25V			*****	*				
C7954	1-164-156-11	CERAMIO	C CHIP	0.1UF		25V								
									A CONVERTER, PS					
		< CONNE	ECTOR >						A OPTICS UNIT BI		,	/		
CNITOSI	1 572 760 21	DIN CON	D IE CEC	D (1.53.00.6)	(C) (D)	\ CD			A OPTICS UNIT BI		SY (E42	A10)		
	1-573-768-21 1-818-486-11)5P			A LAMP BLOCK A					
	1-818-483-11			,	,		<u> </u>	1-408-930-11	POWER SUPPLY	DLUCK				
CIV/955	1-010-405-11	110/110	CONTIL	CION (ZII) 001			1-576-912-11	THERMOSTAT					
							<u></u>			(02)				
		<test point=""></test>					1-787-333-11	D.C. FAN (SIROCCO) D.C. FAN						
		112011	011117					1-787-373-11						
TP7950	1-694-766-21	TERMINA	AL (ONB	OARD CO	NTAC	T)	<u> </u>	1-791-192-21	CORD, NOISE FI	LTER WI	TH POW	ER		
(31.2 31.10.2)														
*******************								LOUDSPEAKER						
								1-830-099-21	LEAD WIRE WIT	'H CONN	ECTOR(LVDS)		
		S2 MOUN					ate ate ate of controls	all	dealeste de de de de reconstruit de la company	ala ala ala etc.	de de de de de de de	la sta sta sta sta at a trata		
*****					*******	*******	*******	r*******	,*******	*******				
								ACCESSORIES &	DACKIN	IC MATI	SDIVIC			
		< CAPAC	TTOR >						**********					
		· CIII AC												

2-597-544-11 MANUAL, INSTRUCTION

25V

10V

10%

REF. NO.	PART NO.	DESCRIPTION	REMARK
	2-597-544-21	MANUAL, INSTRUCTION	
	2-597-544-31	MANUAL, INSTRUCTION	
	2-597-545-11	QUICK SETUP GUIDE	
	2-597-545-21	QUICK SETUP GUIDE	
	2-597-545-31	QUICK SETUP GUIDE	
		< REMOTE COMMANDER >	
	1-479-327-11	REMOTE COMANDER RM-YD003	}
	9-885-083-75	COVER, BATTERY	
	9-885-089-78	COVER, SLIDE	
		< OPTIONAL ACCESSORIES >	
	93-0875-00	LAMP XL-2400	



SPAND WEGA

LCD Projection TV

HD-TV

Operating Instructions

KDF-E42A10 KDF-E50A10









Owner's Record

The model and serial numbers are located at the rear of the TV. Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this product.

Model No.		
Serial No.		

Contacting Sony

If, after reading the following instructions, you have additional questions related to the use of your Sony® TV, please call one of the following numbers.

Customers in the continental United States contact the Direct Response Center at:

1-800-222-SONY (7669)

or visit http://www.sonystyle.com/tv/

Customers in Canada contact the Customer Relations Center at:

1-877-899-SONY (7669)

or visit http://www.sonystyle.ca/tv/

WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.





This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

CAUTION

To prevent electric shock, do not use this polarized AC plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

CAUTION

When using TV games, computers, and similar products with your projection TV, keep the brightness and contrast functions at low settings. If a fixed (non-moving) pattern is left on the screen for long periods of time at a high brightness or contrast setting, the image can be permanently imprinted onto the screen. Continuously watching the same program can cause the imprint of station logos onto the TV screen. These types of imprints are not covered by your warranty because they are the result of misuse

Note on Caption Vision

This TV provides display of TV closed captioning in accordance with \$15.119 of the FCC rules.

For Customers in the United States

If you have any questions about this product, you may call; Sony Customer Information Services Center 1-800-222-7669 or http://www.sony.com/

Declaration of Conformity

Trade Name: SONY

Model: KDF-E42A10/KDF-E50A10 Responsible Party: Sony Electronics Inc. Address: 16450 W. Bernardo Dr, San Diego, CA 92127 U.S.A. Telephone Number: 858-942-2230

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTIFICATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that
to which the receiver is connected.
Consult the dealer or an experienced radio/TV technician for help.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

For Customers in Canada

This Class B digital apparatus complies with Canadian ICES-003.

Safety

- ☐ Operate the TV only on 120 V AC.
- Use the AC power cord specified by Sony and suitable for the voltage where you use it.
- ☐ The plug is designed, for safety purposes, to fit into the wall outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.
- ☐ If any liquid or solid object should fall inside the cabinet, unplug the TV immediately and have it checked by qualified service personnel before operating it further.
- ☐ If you will not be using the TV for several days, disconnect the power by pulling the plug itself. Never pull on the cord.
- For details concerning safety precautions, see "Important Safety Instructions" on page 5.

Installing

- □ The TV should be installed near an easily accessible power outlet.
 □ To prevent internal heat buildup, do not block the ventilation openings.
- Do not install the TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.
- If the TV is transported directly from a cold to a warm location, or if the room temperature changes suddenly, the picture may be blurred or show poor color due to moisture condensation. In this case, please wait a few hours to let the moisture evaporate before turning on the TV.

(Continued)

Ш	To obtain the best picture, do not expose the screen to direct
	illumination or direct sunlight. It is recommended to use spot
	lighting directed down from the ceiling or to cover the windows that
	face the screen with opaque drapery. It is desirable to install the TV
	in a room where the floor and walls are not of a reflective material.
	San pages 12 and 14 for more information on the installation

See pages 13 and 14 for more information on the installation.

CAUTION

Use the following Sony appliance(s) only with the following TV STAND. Use with other TV STAND may cause instability and possibly result in injury.

SONY APPLIANCE MODEL NO.

KDF-E42A10

KDF-E50A10

SONY TV STAND MODEL NO.

SU-RG11S (KDF-E42A10)

SU-RG11M (KDF-E50A10)

To Customers

Sufficient expertise is required for installing the specified product. Be sure to subcontract the installation to Sony dealers or licensed contractors and pay adequate attention to safety during the installation.

For Customers in the United States

This product contains mercury. Disposal of this product may be regulated if sold in the United States. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance (http://www.eiae.org).

Note

This digital television is capable of receiving analog basic, digital basic and digital premium cable television programming by direct connection to a cable system providing such programming. A security card provided by your cable operator is required to view encrypted digital programming. Certain advanced and interactive digital cable services such as video-on-demand, a cable operator's enhanced program guide and data-enhanced television services may require the use of a set-top box. For more information call your local cable operator.

This television also includes a QAM demodulator which should allow you to receive unscrambled digital cable television programming via subscription service to a cable service provider. Availability of digital cable television programming in your area depends on the type of programming and signal provided by your cable service provider.

Trademark Information

CableCARD™ is a trademark of Cable Television Laboratories, Inc.

TruSurround XT, SRS and the () symbol are trademarks of SRS Labs, Inc. TruSurround XT technology is incorporated under license from SRS Labs, Inc.

Licensed by BBE Sound, Inc. under USP4638258, 4482866. "BBE" and BBE symbol are trademarks of BBE Sound, Inc.

Macintosh is a trademark licensed to Apple Computer, Inc., registered in the U.S.A and other countries.

WEGA, Grand WEGA, WEGA GATE, Steady Sound, Digital Reality Creation and CineMotion are registered trademarks of Sony Corporation.

"PlayStation" is a trademark of Sony Computer Entertainment, Inc.



This TV is manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

This TV incorporates High-Definition Multimedia Interface (HDMITM) technology. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.





Clean only with dry cloth.



 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.



 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat



Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.





 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.



 Only use attachments/accessories specified by the manufacturer.



12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



13) Unplug this apparatus during lightning storms or when unused for long periods of time.



14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



 Be sure to observe the TV's "For Safety" section on page 6.

Antennas

Outdoor Antenna Grounding

If an outdoor antenna is installed, follow the precautions below. An outdoor antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can come in contact with such power lines or circuits.

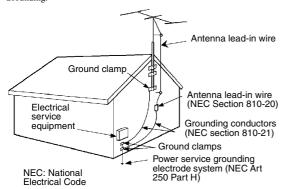
WHEN INSTALLING AN OUTDOOR ANTENNA SYSTEM, EXTREME CARE SHOULD BE TAKEN TO KEEP FROM CONTACTING SUCH POWER LINES OR CIRCUITS AS CONTACT WITH THEM IS ALMOST INVARIABLY FATAL.

Be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges.

Section 810 of the National Electrical Code (NEC) in USA and Section 54 of the Canadian Electrical Code in Canada provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Antenna Grounding According to the NEC

Refer to section 54-300 of Canadian Electrical Code for Antenna Grounding.



Cleaning

- Clean the rear cover area of the TV regularly. Dust in the rear cover area may cause a problem with the cooling system of the TV set.
- Clean the cabinet of the TV with a dry soft cloth. To remove dust from the screen, wipe it gently with a soft cloth. Stubborn stains may be removed with a cloth slightly dampened with solution of mild soap and warm water. Never use strong solvents such as thinner or benzine for cleaning. If the picture becomes dark after using the TV for a long period of time, it may be necessary to clean the inside of the TV. Consult qualified service personnel.
- ☐ Unplug the AC power cord when cleaning this unit. Cleaning this unit with a plugged AC power cord may result in electric shock.

On Contamination on the Screen Surface

The screen surface has a special coating to reduce reflections. To prevent screen damage, clean the screen as follows:

- ☐ Clean the screen with a soft cloth.
- ☐ To remove hard contamination, use a cloth moistened with a solution of mild detergent and water. Do not spray cleaning solution directly onto the TV. It should only be sprayed to moisten the cleaning cloth.
- ☐ Do not use any type of abrasive pad, alkaline cleaner, acid cleaner, scouring powder, chemical cloth, or solvent such as alcohol, benzene or thinner, as these may scratch the screen's coating.

Service

Damage Requiring Service

Do not attempt to service the set by yourself since opening the cabinet may expose you to dangerous voltage or other hazards.



Unplug the set from the wall outlet and refer servicing to qualified service personnel.

Replacement Parts

When replacement parts are required, be sure the service technician certifies in writing that he has used replacement parts specified by the manufacturer that have the same characteristics as the original parts.

Unauthorized substitutions may result in fire, electric shock or other hazards.

See "Replacing the Lamp" on page 86.

For Safety

Be Careful When Moving the TV

When you place the TV in position, be careful not to drop it on your foot or fingers.

Watch your footing while installing the TV.



Carry the TV in the Specified Manner

If you carry the TV in a manner other than the specified manner and without the specified number of persons, it may drop and a serious injury may be caused. Be sure to follow the instructions mentioned below.



- ☐ Carry the TV with the specified number of persons (see page 13).
- ☐ Hold the TV tightly when carrying it.
- ☐ Before carrying the TV, disconnect any accessories or cables.

About the TV

Although the TV is made with high-precision technology, black dots may appear or bright points of light (red, blue, or green) may appear constantly on the screen. This is a structural property of the panel and is not a defect.

Installation

- ☐ If direct sunlight or other strong illumination shines on the screen, part of the screen may appear white due to reflections from behind the screen. This is a structural property of the TV.
 - Do not expose the screen to direct illumination or direct sunlight.

 The picture quality may be affected by your viewing position. For
- the best picture quality, install your TV according to "Recommended Viewing Area" on page 14.
- When installing your TV against a wall, keep it at least 4 inches (10 cm) away from the wall.

Projection Lamp

- Your TV uses a projection lamp as its light source. It is time to replace the lamp with a new one (not supplied) when:
 - · the lamp replacement indicator on the front panel blinks in red,
 - screen images become dark,
- no image appears on the display after prolonged use.
- ☐ In rare instances, the bulb may pop inside the lamp unit, but the lamp unit is designed to contain all of broken glass pieces inside the lamp unit. (See "Replacing the Lamp" on page 86.)
- ☐ When the lamp eventually burns out, you may hear a noticeable pop sound. This is normal and is inherent in this type of lamp.

Disposal of Used Batteries

To preserve our environment, dispose of used batteries according to your local laws or regulations.

Cooling Fan

This TV uses a cooling fan. You may hear the noise of fan running, depending on the placement of your TV. The noise may be more noticeable during the night or when the background noise level is low.

Contents

Introducing the TV	
Welcome	9
Package Contents	
Features	
Enjoying Your TV	11
Notes on the TV	11
Screen	11
Indicators	12
Projection Lamp	12
Installing the TV	13
Carrying Your TV	13
Take Precaution during Installation	
Preventing the TV from Toppling Over	14
When Installing Your TV against a Wall	14
Recommended Viewing Area	14
TV Controls and Connectors	15
Front Panel	
Side Panel	16
Rear Panel	17
Connecting the TV	
Overview	19
Making Video and Audio Connections	
About Using S VIDEO	
About Using HDMI to DVI Adapter	
Basic Connections	
Cable System or VHF/UHF	
Cable Box and Antenna	
Cable Box	24
Satellite Receiver	25
Digital Cable Box or Digital Satellite	
Receiver	26
Equipment with HDMI Connection	27
Equipment with DVI Connection	28
Equipment with Digital Audio (Optical)	29
Using CableCARD Device	30
About Using CableCARD Device	30
Activating CableCARD Service	30
Removing the CableCARD Device	31
Setting Up the Channel List	32
Using Initial Setup	32

Connecting Optional Equipment	33
VCR and Cable	
VCR and Cable Box	
Two VCRs for Tape Editing	37
DVD Player with Component	
Video Connectors	38
DVD Player with	
S VIDEO and Audio Connectors	
Personal Computer	
Camcorder or "PlayStation"	
Audio Receiver	42
Watching the TV	
Overview	
Inserting Batteries into the Remote Control	
Button Descriptions	
Programming the Remote Control	47
Using Other Equipment with Your Remote	
Control	
Special Buttons on the Remote Control	
Using the GUIDE Button	
Using the WIDE Button	
Using the JUMP Button	
Using the FREEZE Button	54
Introducing WEGA GATE	
Overview of WEGA GATE	5
Navigating and Selecting Items	57
Using Favorites in WEGA GATE	57
Using Cable in WEGA GATE	58
Using Antenna in WEGA GATE	
Using External Inputs in WEGA GATE	59
Using Settings in WEGA GATE	59
Using the Settings	
Overview	61
Accessing the Video Settings	
Selecting Video Options	
Selecting PC Video Options	
Accessing the Audio Settings	
Selecting Audio Options	66
Selecting PC Audio Options	68

Accessing the Screen Settings 69
Selecting Screen Options69
Selecting PC Screen Options71
Accessing the Channel Settings72
Selecting Channel Options72
Accessing the Parental Lock Settings74
Selecting Parental Lock Options74
Viewing Blocked Programs75
Selecting Custom Rating Options76
Accessing the Setup Settings78
Selecting Setup Options78
Programming Caption Vision80
Selecting PC Setup Options81
Accessing the Applications Settings83
Selecting Applications Options83
Other Information
Overview85
Overview85 Contacting Sony85
Overview85
Overview
Overview
Overview
Overview
Overview 85 Contacting Sony 85 Replacing the Lamp 86 How to Replace the Lamp 86 Troubleshooting 90 Remote Control 90 CableCARD Device 90
Overview 85 Contacting Sony 85 Replacing the Lamp 86 How to Replace the Lamp 86 Troubleshooting 90 Remote Control 90 CableCARD Device 90 Video 91
Overview 85 Contacting Sony 85 Replacing the Lamp 86 How to Replace the Lamp 86 Troubleshooting 90 Remote Control 90 CableCARD Device 90 Video 91 Audio 92
Overview
Overview 85 Contacting Sony 85 Replacing the Lamp 86 How to Replace the Lamp 86 Troubleshooting 90 Remote Control 90 CableCARD Device 90 Video 91 Audio 92 Channels 92 General 93

Introducing the TV

Welcome

Thank you for purchasing this Sony's *HD* LCD projection TV. This manual is for models KDF-E42A10 and KDF-E50A10.

Package Contents

Along with your new TV, the packing box contains a remote control and two AA (R6) batteries. See page 95 for the complete list of packaging contents.

Features

Some of the features that you will enjoy with your new TV include:

- WEGA GATETM: WEGA GATE is a new feature that allows you to easily navigate to the most convenient TV functions: favorite channels, cable channels, antenna channels, external input list or settings.
- WEGA Engine: Delivers superb picture quality from any video source by minimizing the signal deterioration caused by digital-to-analog conversion and stabilizing the signal processing. This engine features unique Sony technology, including:
 - DRC® (Digital Reality Creation)-MF V1: Unlike conventional line doublers, the DRC Multifunction feature replaces the signal's NTSC waveform with the near-HD equivalent by digital mapping processing. The DRC Palette option lets you customize the level of detail (Reality) and smoothness (Clarity) to create up to three custom palettes.
- ☐ **Integrated HDTV:** You can watch digital television programs and enjoy the improved audio/video quality offered by these programs.
- ☐ Wide Screen Mode: Allows you to watch 4:3 normal broadcasts in wide screen mode (16:9 aspect ratio).
- ☐ Advanced Iris: This advanced iris shutter works automatically open and close according to the incoming signal level to create brighter whites and better contrast in dark scenes.
- ☐ CineMotion®: Using the reverse 3-2 pull down technology, the CineMotion feature provides smoother picture movement when playing back movies or other video sources on film.
- ☐ Parental Control: V-Chip technology allows parents to block unsuitable programming from younger viewers.
- □ CableCARDTM slot: Provides cable subscribers with access to digitally encrypted cable channels without the need for a set-top box that will enable you to receive not only standard definition but also high definition television. The CableCARD device, which is provided by your cable TV company, is inserted into the TV's rear panel

(Continued)

Introducing the TV

CableCARD slot. After the service is activated with your cable TV company, the card replaces the need for a separate set-top box. (Check with your cable TV company about CableCARD service details, limitations, pricing, and availability. For more information about the CableCARD device in this manual, see page 30.)

- ☐ Component Video Inputs: Offers the best video quality for DVD (480p, 480i) and digital set-top box (1080i, 720p, 480p, 480i) connections.
- □ **S VIDEO Inputs:** Provides a high-quality image from connected equipment.
- ☐ Favorite Channels: With the WEGA GATE function, it allows you to navigate a list of up to 16 favorite channels without leaving the current channel.
- □ **Steady Sound**[®]: Equalizes volume levels so there is consistent output between programs and commercials.
- □ HDMI (High-Definition Multimedia Interface): Provides an uncompressed, all-digital audio/video interface between this TV and any HDMI-equipped audio/video component, such as a set-top box, DVD player, and A/V receiver. HDMI supports enhanced, or high-definition video, plus two-channel digital audio.

Enjoying Your TV

To enjoy your TV for years to come and maintain its original picture quality, you should perform periodic maintenance.

Notes on the TV

To enjoy clear picture

- Prevent sunlight or other light sources from shining directly on to the screen.
- ☐ The screen surface is easily scratched. Do not rub, touch, or tap it with sharp or abrasive objects (see "On Contamination on the Screen Surface" on page 6).

When not using the TV for a long period of time

☐ Unplug the AC power cord from the outlet if you anticipate not using the TV for more than a week.

When turning off the power

☐ The cooling fan will continue to operate for about two minutes. Allow several minutes before unplugging from the outlet or switching the breaker off.

On moisture condensation

☐ If your TV is moved directly from a cold to a warm location or is placed in a humid room, or if the room temperature changes suddenly, the picture may blur or show poor color. This is caused by moisture condensation on the lenses inside. Wait a few hours to let the moisture evaporate before turning on the TV. When the condensation has evaporated, the picture will return to normal.

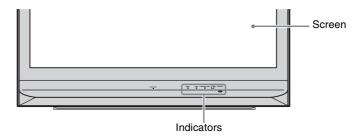
Screen

To minimize reflection, the screen surface has a special coating. Inappropriate cleaning methods could damage the screen surface. Special care is required.

Cleaning the Screen Surface

Dust and dirt on the screen can affect the picture quality. To dust off the screen use a soft cloth. Be sure to follow the cleaning instruction on page 6 for stubborn stains and dirt.

Indicators



The indicators show the current status of your TV. If there is a change in the condition or a problem with the TV, the indicators will flash or light up in the manner described below to let you know that it requires your attention.

Indicator	Flashing because
POWER/ STANDBY flashing	green: The lamp for the light source is preparing to turn on. When it is ready, it turns on. red: The lamp door or the lamp is not securely attached. The red indicator will continue to flash in intervals of three blinks at a time until the lamp door or the lamp is placed correctly. When the lamp door or the lamp is securely attached, the TV will turn on with green indicator.
LAMP indicator flashes	The projection lamp has burned out. Replace it with new one (see page 86).
TIMER indicator is lit	When one of the timers is set, the indicator will remain lit (will not flash) even when the TV is turned off.

Projection Lamp

How to replace the lamp, see page 86.

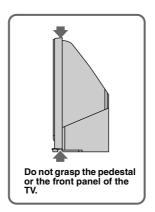
Your TV uses a projection lamp as its light source. As with any lamp, it has lifespan and needs to be replaced when the Lamp indicator flashes or the screen becomes darker. Note the following:

- After turning on your TV, it may take a while (1 minute or less) before the picture appears.
- ☐ When the projection lamp wears out, the screen goes dark. Replace the lamp with a new Sony XL-2400 replacement lamp (not supplied).
- The light emitted from the lamp is quite bright when your TV is in use. To avoid eye discomfort or injury, do not look into the light housing when the power is on.

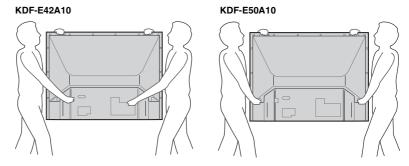
Installing the TV

Carrying Your TV

Carrying the TV requires at least two people. Do not hold by the pedestal or the front panel of the TV. Doing so may cause these parts to break off.



When moving the TV, place one hand in the hole on the lower portion of the TV while grasping the top with the other hand, as shown in the illustration below.



If you have connected cables and cords, be sure to unplug them before moving the TV.

Take Precaution during Installation

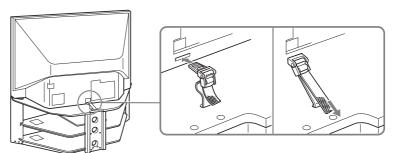
To ensure the safety of children and the TV, keep children away from the TV during installation. Climbing on or pushing the TV or its stand may cause it to fall and damage the TV.

Preventing the TV from Toppling Over

As a protective measure, secure the TV as follows.

Using the TV stand with support belts

□ Sony strongly recommends using the TV stand SU-RG11S (for KDF-E42A10)/SU-RG11M (for KDF-E50A10) with a support belt designed for your TV.



When using the SU-RG11S (for KDF-E42A10)/SU-RG11M (for KDF-E50A10) stand for your TV, you must use the support belt.

When Installing Your TV against a Wall

Keep your TV at least 4 inches (10 cm) away from the wall to provide proper ventilation.

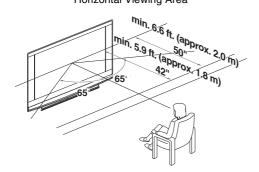
Recommended Viewing Area

Your viewing position may affect the picture quality.

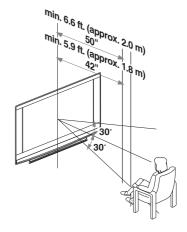
For the best picture quality, install your TV within the areas shown below.

Model	Viewing distance
KDF-E42A10	min. 5.9 ft. (approx. 1.8 m)
KDF-E50A10	min. 6.6 ft. (approx. 2.0 m)

Horizontal Viewing Area

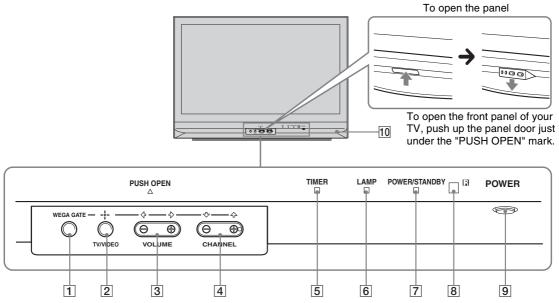


Vertical Viewing Area



TV Controls and Connectors

Front Panel

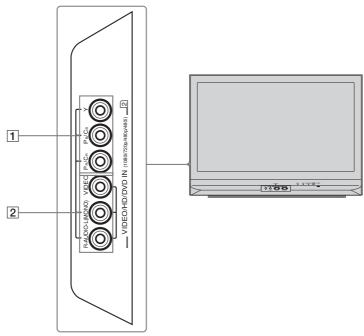


Iter	n	Description
1	WEGA GATE	Press to display WEGA GATE and activate the
2		Press to confirm the selection or setting.
	TV/VIDEO	Press repeatedly to cycle through the video equipment connected to the TV's video inputs.
3	← —— → – VOLUME +	Press to adjust the volume.
4	↓ ↑ - CHANNEL +	Press to scan through channels. To scan quickly through channels, press and hold either — or +.
5	TIMER LED	When lit, indicates one of the timers or Sleep is set. When it is set, this LED will remain lit even if the TV is turned off. For details, see page 83.
6	LAMP LED	Lights up in red when the lamp for the light source has burned out. For details, see "Replacing the Lamp" on page 86.
7	POWER/ STANDBY LED	Lights up in green when the TV is turned on. If the LED blinks in red continuously, this may indicate the display unit needs servicing (see "Contacting Sony" on page 2). When the red LED blinks only three times, the lamp door of the lamp unit or the lamp itself is not securely attached (see page 88).
8	(IR) Infrared	Receives IR signals from the remote control.
ات.	Receiver	Do not put anything near the sensor, as its function may be affected.
9	POWER	Press to turn on and off the TV.
10	Speaker	Outputs audio signal.

when operating the TV.

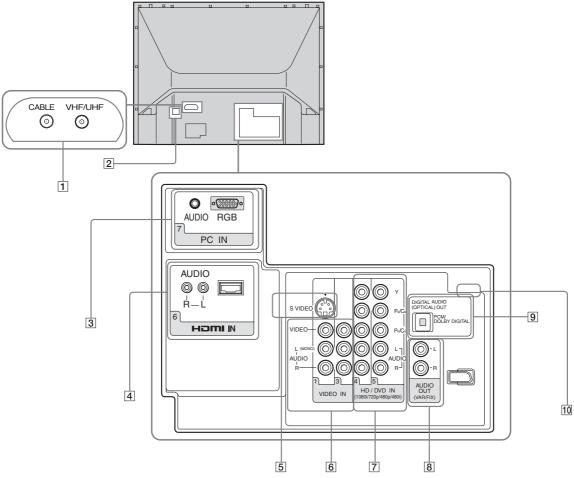
Introducing the TV

Side Panel



Jac	:k	Description
1	HD/DVD IN 2 (1080i/720p/ 480p/480i)	Connect to your DVD player's or digital set-top box's component video (YPBPR) and audio (L/R) jacks. Component video provides better picture quality than the S VIDEO (5 of rear panel) or the composite video (6 of rear panel) connections (see page 18).
2	VIDEO IN 2 VIDEO/ AUDIO L (MONO)/ AUDIO F	Connect to the composite video and audio output jacks on your camcorder or other video equipment. When Auto is selected for the Video 2 (Component) option in the Setup settings, the component video function will be preferentially activated (see page 79).

Rear Panel



Jac	:k	Description
1	CABLE VHF/UHF	RF input that connects to your cable and VHF/UHF antenna signal.
2	CableCARD slot	CableCARD device provides cable subscribers with access to secure, digitally encrypted cable channels — without the need for a set-top box — that will enable you to receive not only standard definition but also high definition television. For more information, see page 30.
3	PC IN 7	Connect to the video output connector and audio output jack on your personal computer. For details, see page 40.
4	HDMI IN 6 HDMI/ L-AUDIO-R	HDMI (High-Definition Multimedia Interface) provides an uncompressed, all-digital audio/video interface between this TV and any HDMI-equipped audio/video component, such as a set-top box, DVD player, and A/V receiver. HDMI supports enhanced, or high-definition video, plus two-channel digital audio. You can also connect a DVI-equipped device to your TV by using an HDMI-to-DVI cable.

(Continued)

Introducing the TV

Jack		Description
5	VIDEO IN 1 S VIDEO	Connects to the S VIDEO output jack of your VCR or other video equipment that has S VIDEO. S VIDEO provides better picture quality than the composite video (6).
6	VIDEO IN 1/3 VIDEO/ L-AUDIO-R	Connect to the composite video and audio output jacks on your VCR or other video component. A third composite video and audio (VIDEO 2) is located on the left side panel of the TV.
7	HD/DVD IN 4/5 (1080i/720p/ 480p/480i)/ L-AUDIO-R	Connect to your DVD player's or digital set-top box's component video (YPBPR) and audio (L/R) jacks. Component video provides better picture quality than the S VIDEO (5) or the composite video (6) connections.
8	AUDIO OUT (VAR/FIX) L/R	Connect to the left and right audio input jacks of your audio or video equipment. You can use these outputs to listen to your TV's audio through your stereo system.
9	DIGITAL AUDIO (OPTICAL) OUT (PCM/DOLBY* DIGITAL)	Connects to the optical audio input of a digital audio component that is PCM/Dolby Digital compatible.
10	AC IN	Connects the supplied AC power cord.

^{*} Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

Connecting the TV

Overview

Your new LCD projection TV can receive both analog and digital broadcasting signals from antenna, satellite and cable TV.

To display clear crisp pictures, you must connect your TV correctly and choose the correct display format (see "Using the WIDE Button" on page 53). It is strongly recommended to connect the antenna using a 75-ohm coaxial cable to receive optimum picture quality signal. A 300-ohm twin lead cable can be easily affected by radio noise and the like, resulting in signal deterioration. If you use a 300-ohm twin lead cable, keep it as far away as possible from the TV.

Making Video and Audio Connections

The signals that enter your TV and connected devices will need to output in the correct format using the suitable connections. Below are different types of video connectors available these days. Your TV comes with all types of connectors with the exception of the DVI connector but your cable box or satellite receiver may be equipped with this type. When connecting your TV, use the inputs that are available on your devices that provide the best video performance, as described below.

Best Video Performance



1 ,		
	Connector type	Separate audio connection required
HDMI	HDMI (High-Definition Multimedia Interface)	No
©(- ©	DVI (Digital Video Interface) *	
Y Pe/Cs Pr/Cs	Component video (480i/480p/720p/1080i)	Yes
s video	S VIDEO	L-AUDIO-R
VIDEO —	Composite video	
	RF/Coaxial	No

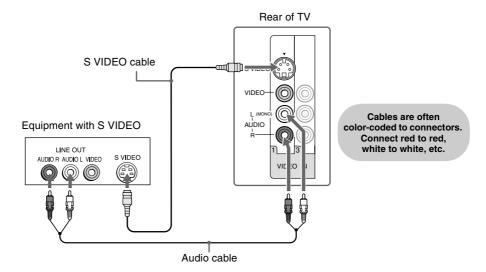
^{*} An adapter is necessary when you are connecting a DVI-equipped device to this TV (see page 20).

About Using S VIDEO



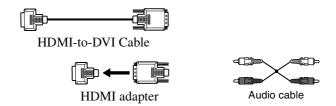
If the optional equipment you are connecting has an S VIDEO jack (shown at left), you can use an S VIDEO cable for improved picture quality (compared to an A/V cable). Because S VIDEO carries only the video signal, you also need to connect audio cables for sound, as shown below.

Example of an S VIDEO Connection



About Using HDMI to DVI Adapter

If you are connecting equipment with DVI connector with this TV, you will need to use an adapter. You can use an HDMI-to-DVI cable or an HDMI adapter (not supplied). Both are available from your local electronics store. When you use the adapter, you will also need to use separate audio cables for sound as DVI connector is for video signals only.



Basic Connections

The way in which you connect your TV will vary, depending on how your home receives a signal (antenna and satellite; cable and cable box) and whether or not you plan to connect a VCR.

If Y	ou Are Connecting	See Page	
Cable System or VHF/UHF		22	
	No cable box or VCR		
Cable Box and Antenna		23	
	Cable box unscrambles only some		
	channels (usually premium channels)		
	No VCR		
Cable Box		24	
	Cable box unscrambles all channels		
	No VCR		
Sat	ellite Receiver	25	
Digital Cable Box or Digital Satellite Receiver		26	
Equipment with HDMI Connection		27	
Equipment with DVI Connection		28	
Equipment with Digital Audio (OPTICAL)		29	

If you are connecting a VCR

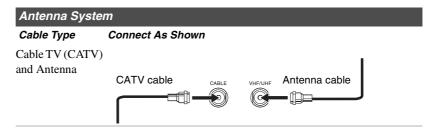
☐ See the connections described on pages 34 and 35.

Connecting the TV

Cable System or VHF/UHF

For best results, use this connection if you:

- ☐ Have a cable and/or an antenna.
 - (This is convenient if you are using a separate rooftop antenna to receive additional channels that are not provided by your cable TV company.)
- □ Do not have a cable box or VCR. (If you have a cable box, see pages 23 and 24. If you have a VCR, see pages 34 and 35.)



Notes on Using This Connection

To Do This	Do This
Switch the TV's input between	Press ANT to switch back and forth between the
the cable and antenna	TV's VHF/UHF and CABLE inputs.

Do not use an indoor antenna, which is especially susceptible to radio noise.

Cable Box and Antenna

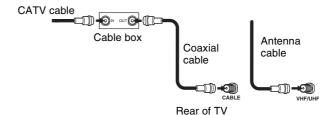
Before connecting a cable box, see "Using CableCARD Device" on page 30.

For best results, use this connection if:

- ☐ Your cable company scrambles some channels, such as premium channels (which requires you to use a cable box), but does not scramble all channels.
- ☐ You do not have a VCR. (If you have a VCR, see pages 34 and 35.)

With this connection you can:

- ☐ Use the TV's remote control to change channels coming through the cable box to the TV's CABLE input. (You must first program the remote control for your specific cable box; see "Programming the Remote Control" on page 47.)
- ☐ Use the TV's remote control to change channels coming directly into the TV's VHF/UHF input jack.



Notes on Using This Connection

To Do This	Do This
Use the cable box	Tune the TV to the channel the cable box is set to (usually channel 3 or 4) and then use the cable box to switch channels.
Set up the TV remote control to operate the cable box	Program the remote control. See "Programming the Remote Control" on page 47.
Activate the remote control to operate the cable box	Press SAT/CABLE (FUNCTION) once, and the SAT/CABLE indicator lights up.
Prevent the accidental switching of TV channels	When using the cable box, ensure that the TV remains tuned to the channel that the cable box is set to (usually channel 3 or 4).
Switch the TV's input between the cable box and antenna	Press ANT to switch back and forth between the TV's VHF/UHF (scrambled channels) and CABLE (unscrambled) inputs.

Connecting the TV

Cable Box

Before connecting a cable box, see "Using CableCARD Device" on page 30.

For best results, use this connection if:

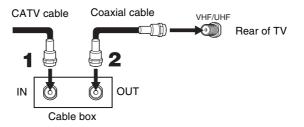
- ☐ Your cable company scrambles all channels, which requires you to use a cable box.
- ☐ You do not have a VCR. (If you have a VCR, see pages 34 and 35.)

With this connection you can:

☐ Use the TV's remote control to change channels coming through the cable box to the TV's VHF/UHF input jack. (You must first program the remote control for your specific cable box.)

To connect the cable box

- 1 Connect the CATV cable to the cable box's input jack.
- **2** Use a coaxial cable to connect the cable box's output jack to the TV's VHF/UHF input jack.
- **3** Run Auto Program, as described in "Setting Up the Channel List" on pages 32.



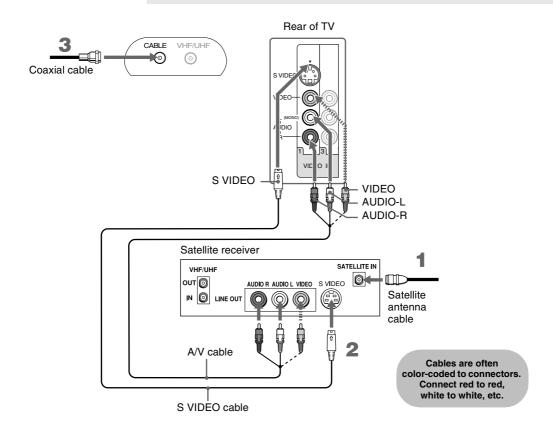
Notes on Using This Connection

To do this	Do This
Use the cable box	Tune the TV to the channel the cable box is set to (usually channel 3 or 4) and then use the cable box to switch channels.
Set up the TV remote control to operate the cable box	Program the remote control. See "Programming the Remote Control" on page 47.
Activate the remote control to operate the cable box	Press SAT/CABLE (FUNCTION) once, and the SAT/CABLE indicator lights up.
Prevent the accidental switching of TV channels	When using the cable box, ensure that the TV remains tuned to the channel that the cable box is set to (usually channel 3 or 4).

Satellite Receiver

Disconnect all power sources before making any connections.

- 1 Connect the satellite antenna cable to the satellite receiver's SATELLITE IN jack.
- **2** Use A/V and S VIDEO cables to connect the satellite receiver's AUDIO and S VIDEO OUT jacks to the TV's AUDIO and S VIDEO IN jacks.
- **3** Use a coaxial cable to connect your cable to the TV's CABLE jack, or your antenna to the TV's VHF/UHF jack.
- If your satellite receiver is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.



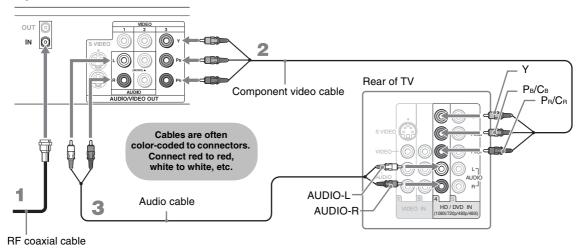
Connecting the TV

Digital Cable Box or Digital Satellite Receiver

Disconnect all power sources before making any connections.

- 1 Connect the RF coaxial cable from the CATV or satellite dish to the input of the digital cable box or digital satellite receiver.
- **2** Use a component video cable to connect the digital cable box or satellite receiver's YP_BP_R jacks to the TV's Y P_B/C_B P_R/C_R jacks. Use the HD/DVD IN 4 or 5 input.
- Component video (Y P_B/C_B P_R/C_R) connection is necessary to view 480p, 720p, and 1080i formats. Note that this TV displays all format types of picture in a resolution of 1280 dots x 720 lines.
- **3** Use an audio cable to connect the digital cable box or satellite receiver's AUDIO OUT jacks to the TV's AUDIO IN jacks.
- The Y PB/CB PR/CR jacks do not provide audio, so audio cables must be connected to provide sound.

Digital cable box or satellite receiver



Equipment with HDMI Connection

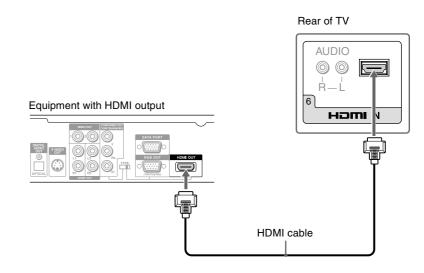
The HDMI jack provides both video and audio signals, so it is not necessary to connect an audio cable.

Use this hookup if:

☐ Your equipment has a High-Definition Multimedia Interface (HDMI).

Disconnect all power sources before making any connections.

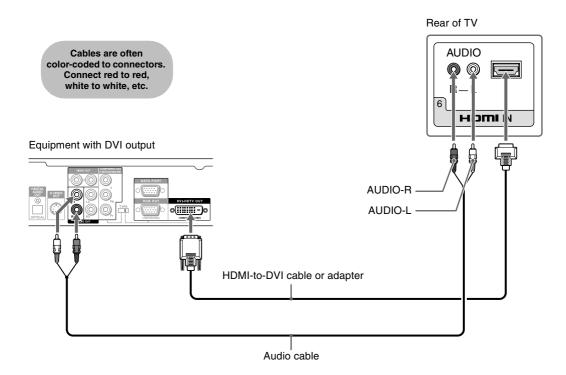
Using an HDMI cable, connect the equipment's HDMI OUT jack to the TV's HDMI IN jack.



Equipment with DVI Connection

Disconnect all power sources before making any connections.

If you are connecting with DVI-HDTV output, you can connect to the TV's HDMI IN jack by using an HDMI-to-DVI cable or an adapter (both not supplied).



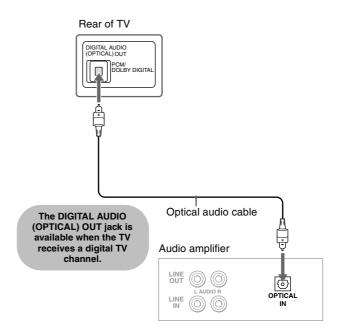
When using a HDMI-to-DVI cable or an adapter, be sure to connect the DVI output connector first; then connect to the HDMI input on your TV.

Equipment with Digital Audio (Optical)

Disconnect all power sources before making any connections.

You can use the TV's DIGITAL AUDIO (OPTICAL) OUT jack to connect a digital audio device that is PCM/Dolby Digital compatible, such as an audio amplifier.

Using an optical audio cable, connect the device's OPTICAL IN jack to the TV's DIGITAL AUDIO (OPTICAL) OUT jack.



Using CableCARD Device

The CableCARD device provides cable subscribers with access to digitally encrypted cable channels — without the need for a set-top box — that will enable you to receive not only standard definition but also high definition television. The CableCARD device, which is provided by your cable TV company, is inserted into the TV's rear panel CableCARD slot. After the service is activated with your cable TV company, the card replaces the need for a separate set-top box.

About Using CableCARD Device

If you are planning to use a separate cable box for digital cable TV services, you may be able to receive programming using this TV with the CableCARD device instead — except in the following circumstances:

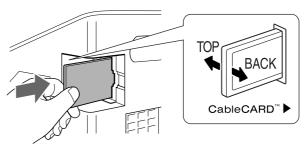
- ☐ Your cable TV company does not provide CableCARD service in your viewing area.
- ☐ You want to access your cable TV company's interactive or advanced features (such as video-on-demand or, in some cases, pay-per-view). At this time, these services require a bidirectional link, which are only available through the use of a separate set-top box. CableCARD device is currently a unidirectional device only, and cannot provide these advanced services.

Check with your cable TV company for CableCARD service details, limitations, pricing, and availability, all of which are determined by your cable TV company — not Sony.

Activating CableCARD Service

Before you can use CableCARD service, you need to insert the CableCARD device (supplied by your cable TV company) and activate the service, as described below:

1 Insert the CableCARD device into the CableCARD slot.



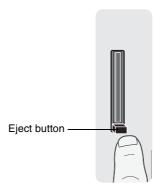
- CAUTION: When inserting the CableCARD device, the rear side of the card should face forward. Inserting the CableCARD incorrectly may result in permanent damage to the card and the TV.
- **2** Gently push the card into the slot until it locks into place.

- "You can also access information about your CableCARD device in the Applications settings (see page 84).
- **3** After 1-2 minutes, the CableCARD device setup screen is automatically displayed. This screen includes information your cable TV company will request before they can activate your service.
- **4** Follow the displayed instructions: Phone your cable TV company. A representative will guide you through the activation process.
- **5** After your CableCARD device is activated, your cable TV company will download the service information, including the channel list, to the CableCARD device. After the CableCARD device has acquired channels from your cable TV company, the TV tunes to the lowest available channel.

Removing the CableCARD Device

In the event you want to cancel your service, contact your cable TV company.

- Once the CableCARD device is removed, your TV will no longer decrypt digital cable TV programming services that require CableCARD.
- 1 Push the eject button on the CableCARD slot to release the card.



2 Pull the CableCARD device straight out of the slot to remove it. To install a different CableCARD device, follow the instructions in "Activating CableCARD Service" on page 30.

Setting Up the Channel List

After you finish connecting the TV, you can run the Initial Setup to create a list of available analog and digital channels. The Initial Setup screen appears when you turn on the TV for the first time after hooking it up. If you choose to set up the channels at a later time, select the Auto Program option in the Channel setting to scan available channels (see below).

The Initial Setup feature does not apply for installations that use a cable box for all channel selection.

Using Initial Setup

If you are using a CableCARD device, Auto Program is disabled for the CABLE input.

To run Initial Setup the first time you turn on your TV

- Press to turn on the TV.
 The Initial Setup screen appears.
- Press ♠ or ▶ to highlight the on-screen display language. Then press ⊕. The messages "First please connect cable and/or antenna" appears. This may require 50+ minutes for completion and "Start auto program now?" appears.



3 Press ♠ or ▶ to highlight "Yes" then press ⊕.

Auto Program performed through Initial Setup will automatically create a list of receivable channels from both VHF/UHF antenna and cable TV channels if both sources are connected.

- Auto Program may take a while (20 to 50 minutes) to complete. A progress bar is displayed while available channels are being scanned. If you cancel the Auto Program before all receivable channels are scanned, you may want to perform the task later (see "To run Auto Program at a later time" below).
- If you selected "No" during the Initial Setup, the Initial Setup message will appear each time you turn on the TV until you complete the Auto Program as a reminder.

To run Auto Program at a later time

- **1** Select Settings in WEGA GATE, and then go to Channel settings.
- Select Auto Program then select Start.
- Auto Program will create a list of receivable channels for the current input (VHF/UHF antenna or CABLE). You will be required to run Auto Program for each RF input to create a list of available channels from both inputs.

Connecting Optional Equipment

You can connect a variety of optional equipment to your TV. This section provides some of the individual connections you can make. For multiple connections, please refer to the Quick Setup Guide.

If You Are Connecting	See Page
VCR and Cable	34
VCR and Cable Box	35
Two VCRs for Tape Editing	37
DVD Player with Component Video Connectors	38
DVD Player with S VIDEO and Audio Connectors	39
Personal Computer	40
Camcorder or "PlayStation"	41
Audio Receiver	42

VCR and Cable

Use this hookup if:

☐ You have cable TV that does not require a cable box.

Disconnect all power sources before making any connections.

- 1 Connect the CATV cable to the single (input) jack of the splitter.
- **2** Use a coaxial cable to connect one of the output jack of the splitter to the TV's CABLE jack.
- **3** Use a coaxial cable to connect the splitter's other output jack to the VCR's input jack.
- **4** Use A/V and S VIDEO cables to connect the VCR's AUDIO and S VIDEO OUT jacks to the TV's AUDIO and S VIDEO IN jacks.
- If your VCR is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.

Rear of TV CABLE VHF/UHF - VIDEO S VIDEO **VCR AUDIO-L** Coaxial AUDIO-R S VIDEO AUDIO R AUDIO L VIDEO OUT 0 cable Splitter CATV IN cable A/V cable Cables are often color-coded to connectors. Connect red to red, S VIDEO cable white to white, etc. Coaxial cable

34

VCR and Cable Box

Before connecting a cable box, see "Using CableCARD Device" on page 30.

Use this hookup if:

☐ Your cable TV company scrambles some channels, but not all of them (pay channels vs. regular cable channels) and you need to use a cable box.

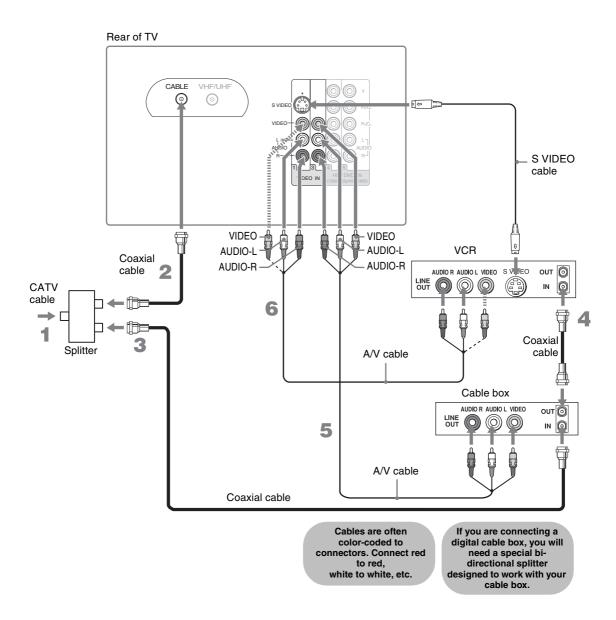
With this connection you can:

- ☐ Use the TV's remote control to change channels on your cable box when the signal is scrambled. To program your Sony remote control to operate your cable box, see "Programming the Remote Control" on page 47.
- ☐ Use the TV's remote control to change channels on your TV when the signal is not scrambled. Your TV's tuner provides a better picture quality than the output of your cable box.

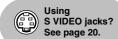
Disconnect all power sources before making any connections.

- 1 Connect the CATV cable to the single (input) jack of the splitter.
- **2** Use a coaxial cable to connect one of the output jack of the splitter to the TV's CABLE jack.
- **3** Use a coaxial cable to connect the splitter's other output jack to the cable box's input jack.
- **4** Use a coaxial cable to connect the cable box's output jack to the VCR's RF input jack.
- **5** Use an A/V cable to connect the cable box's A/V output jacks to the TV's A/V input jacks.
- **6** Use an A/V and S VIDEO cables to connect the VCR's AUDIO and S VIDEO OUT jacks to the TV's AUDIO and S VIDEO IN jacks.
- If your VCR is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.
- **7** Run Initial Setup, as described in "Setting Up the Channel List" on page 32.
- To view scrambled channels, tune the TV to the channel the cable box is set to (usually channel 3 or 4) and then use the cable box to switch channels.

Connecting the TV



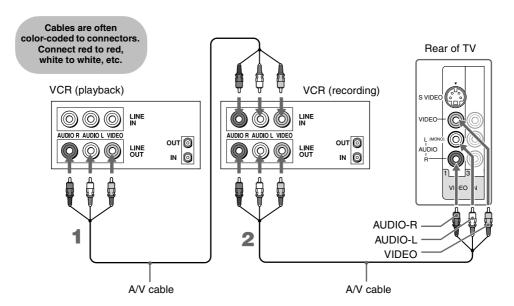
Two VCRs for Tape Editing



If you connect two VCRs, you can record from one VCR to the other while using your TV to monitor what is being recorded.

Disconnect all power sources before making any connections.

- 1 Use an A/V cable to connect the playback VCR's A/V output jacks to the recording VCR's A/V input jacks.
- **2** Use an A/V cable to connect the recording VCR's A/V output jacks to the TV's A/V input jacks.



- ✓ To perform tape editing, set the TV to the video input intended for playback by pressing TV/VIDEO on the remote control.
- You may need to change the video input on your VCR. See your VCR's operating manual for instructions.
- If your VCRs have S VIDEO jacks: For best picture quality, use an S VIDEO connection instead of the VIDEO cable (yellow) on your combined A/V cable.
 - Using an S VIDEO cable, connect the playback VCR's S VIDEO OUT jack to the recording VCR's S VIDEO IN jack. S VIDEO does not provide audio, so audio cables must be connected to provide sound.
- You cannot record signals from equipment connected to the Y PB/CB PR/CR input.

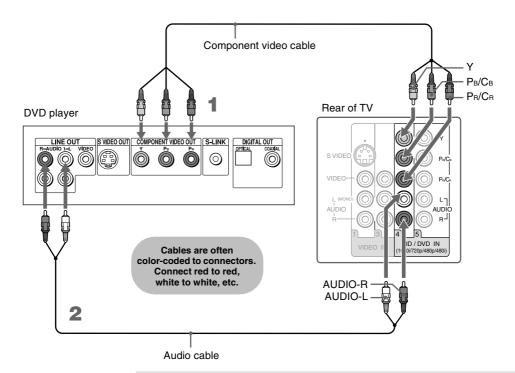
DVD Player with Component Video Connectors

Use this hookup if:

☐ Your DVD player has component (YP_BP_R) jacks.

Disconnect all power sources before making any connections.

- **1** Use a component video cable to connect the DVD player's YP_BP_R jacks to the TV's Y P_B/C_B P_R/C_R jacks. Use the HD/DVD IN 4 or 5 input.
- The YPBPR jacks on your DVD player are sometimes labeled YCBCR, or Y, B-Y and R-Y. If so, connect the cables to like colors.
- **2** Use an audio cable to connect the DVD player's AUDIO OUT jacks to the TV's AUDIO IN jacks. Be sure to use the same row of inputs that you used for the video connection (HD/DVD IN 4 or 5).



To take advantage of the Wide Mode feature, set the DVD player's aspect ratio to 16:9. For details, refer to the operating instructions supplied with your DVD player.

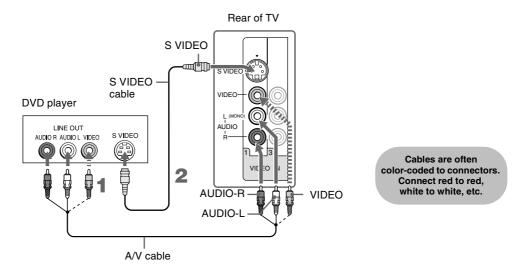
DVD Player with S VIDEO and Audio Connectors

Use this hookup if:

Your DVD player does not have component (YP_BP_R) jacks.

Disconnect all power sources before making any connections.

- 1 Use an A/V cable to connect the DVD player's AUDIO OUT jacks to the TV's AUDIO IN jacks.
- **2** Use an S VIDEO cable to connect the DVD player's S VIDEO jack to the TV's S VIDEO jack.



- If your DVD player is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.
- To watch the DVD player, press TV/VIDEO repeatedly to select the DVD input (VIDEO 1 in the illustration). If you have a non-Sony DVD player and want to set up the TV remote control to operate it, you must program the remote control. See "Programming the Remote Control" on page 47.
- To control DVD functions with the TV remote control, see "Operating a DVD Player or DVD Changer" on page 49.
- To easily identify equipment connected to the TV, see the instructions for setting up Label Video Inputs on page 79.

Connecting the TV

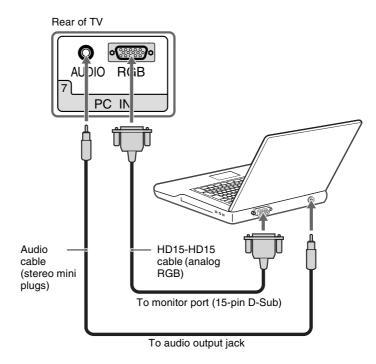
Personal Computer

- When connecting to an Apple Macintosh computer, use the HD15-HD15 cable to connect PC IN of the TV to video output connector of the computer. For some Apple Macintosh computers, it may be necessary to use an adapter (not supplied). If this is the case. connect the adapter to the computer before connecting the HD15-HD15 cable.
- if the picture is noisy or flickering, adjust the Phase and Pitch in the Screen settings on page 71.

To connect a PC (personal computer)

If you connect your PC to the TV, you can watch your personal computer's display on the TV.

When your PC is connected to the TV with the HD15-HD15 cable and optional audio cable, you can view and listen to the PC's video and audio output on the TV.



Camcorder or "PlayStation"

You can connect a camcorder or "PlayStation" to your TV. For easy connection, use VIDEO IN 2 on the left side of the TV. To use the S VIDEO jack instead of the VIDEO jack (yellow), use VIDEO IN 1 on the rear panel of the TV.

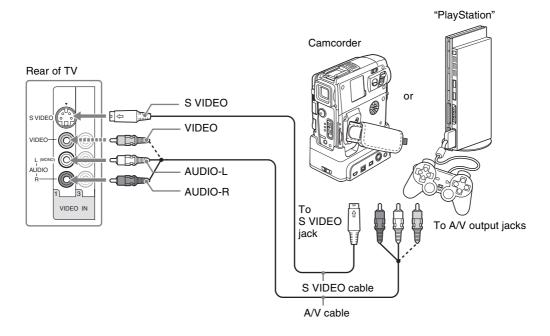
To connect a camcorder or "PlayStation" to VIDEO IN 1

Use A/V and S VIDEO cables to connect the AUDIO and S VIDEO OUT jacks on the camcorder or "PlayStation" to the AUDIO and S VIDEO IN jacks on the rear panel of the TV, as shown below.

To connect a camcorder or "PlayStation" to VIDEO IN 2

Select Off in the Video 2 (Component) option in the Setup settings (see page 79). Use an A/V cable to connect the A/V output jacks on the camcorder or "PlayStation" to the A/V input jacks on the left side of the TV.

- If your camcorder is not equipped with S VIDEO, use a VIDEO cable (yellow) instead of the S VIDEO cable.
- If you have a mono camcorder, connect its audio output jack to the TV's L MONO audio input jack.



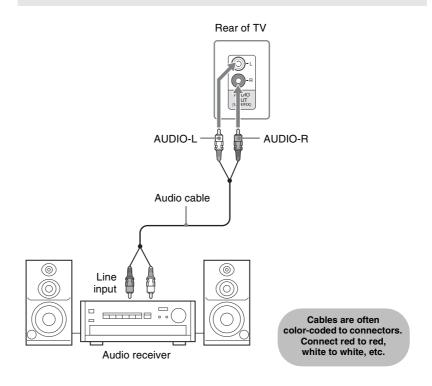
Audio Receiver

For improved sound quality, you may want to play the TV's audio through your stereo system (see page 67).

Disconnect all power sources before making any connections.

Using an audio cable, connect the TV's AUDIO OUT (VAR/FIX) jacks to the audio receiver's audio LINE IN jacks.

AUDIO OUT jacks are operable only when the TV's Speaker is set to Off.



Watching the TV

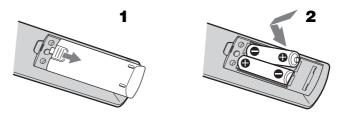
Overview

The table on the next page describes the buttons on the remote control.

Topic	Page
Inserting Batteries into the Remote Control	43
Button Descriptions	44
Programming the Remote Control	47
Manufacturer's Codes	48
Using Other Equipment with Your Remote Control	49
Special Buttons on the Remote Control	51

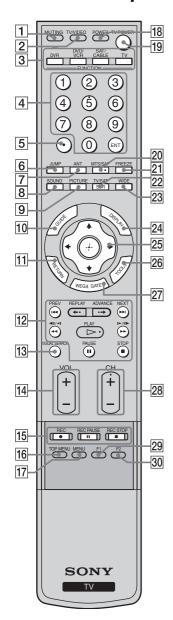
Inserting Batteries into the Remote Control

Insert two size AA (R6) batteries (supplied) by matching the • and • on the batteries to the diagram inside the battery compartment.



- To avoid possible damage from battery leakage, remove the batteries if you anticipate the remote control will not be used for an extended period.
- Handle the remote control with care. Avoid dropping it, getting it wet, or placing it in direct sunlight, near a heater, or in high humidity.
- ✓ Your remote control can be programmed to operate most video equipment. (See "Programming the Remote Control" on page 47.)

Button Descriptions



The 5 button, CH + button, MTS/SAP and Play button have a tactile dot. Use the tactile dot as a reference when operating the TV.

Button	Description
1 MUTING	Press to mute the sound. Press again or press VOL + to unmute.
2 TV/VIDEO	Press to cycle through the video equipment connected to your TV's video inputs.
3 FUNCTION Buttons	The FUNCTION button indicator lights up momentarily when pressed to show which external equipment the remote control is operating. When the remote control is set to operate the external equipment, these buttons will operate the equipment you choose. You must first press one of these FUNCTION buttons to operate the corresponding equipment. See page 47 for Programming the Remote Control.
4 0-9, ENT	Press 0-9 to select a channel: the channel changes after 2 seconds. Press ENT to change channels immediately.
5 🔾	Use \bigcirc with 0-9 and ENT buttons to select digital channels (for example, 2.1).
6 JUMP	Press to jump back and forth between two channels. The TV alternates between the current channel and the last channel that was selected.
7 ANT	Press to change between the VHF/UHF input and the CABLE input.
8 SOUND	Press to cycle through different sound settings: Dynamic for enhance treble and bass, Standard for spoken dialog and Custom for flat setting.
9 PICTURE	Press repeatedly to cycle through the available video picture modes: Vivid, Standard, Custom. The video picture modes can be also accessed in the Video menu. For details, see "Selecting Video Options" on page 63.
10 GUIDE	Press to display the TV's program guide.
11 RETURN	Press to return to the previous page.
12 DVD/VCR Operating Buttons	When FUNCTION is switched on DVR or DVD/VCR, these buttons operate the video equipment you have programmed into the remote control. For details, see "Using Other Equipment with Your Remote Control" on page 49. I ← PREV: Press to replay the current program from the previous Chapter Mark (if any) or from the beginning of the live TV cache. ← REPLAY: Press to replay the current program for a set period of time. → ADVANCE: Press to advance forward a set period of time when playing back a recorded program. ▶ I NEXT: Press to advance forward to the next Chapter Mark (if any) or to live TV when playing back a recorded program. ← (fast reverse): Press to play a program in fast rewind mode.
	 PLAY: Press to play a program at a normal speed. (fast forward): Press to play a program in fast forward mode. PAUSE: Press to pause playback. STOP: Press to stop the playback of a recorded program.

Button	Description
13 VISUAL SEARCH	To be used only with your connected external equipment with visual search function. (Non-operable button for TV)
14 VOL +/-	Press to adjust the volume.
15 DVD/VCR	● REC: Press to record. By pressing this button alone will start
Record	the recording.
Buttons	■ REC PAUSE: Press to pause the recording. ■ REC STOP: Press to stop the recording.
16 TOP MENU	Press to display the disc menu from your connected DVD player.
17 MENU	Press to display the disc menu from your connected DVD player.
18 POWER	Press to turn on/off the eternal equipment selected from the FUNCTION buttons $\boxed{3}$.
19 TV POWER	Press to turn on/off the TV.
20 MTS/SAP	Press repeatedly to cycle through the Multi-channel TV Sound (MTS) options: Stereo, Auto SAP (Second Audio Program), and Mono. The MTS setting can be also accessed in the Audio setting. For more details, see "Selecting Audio Options" on page 66.
21 FREEZE	Press to freeze the current picture. Press again to restore the picture. For details, see "Using the FREEZE Button" on page 54.
22 TV/SAT/SUR	TV/SAT: While in SAT/CABLE FUNCTION, press to switch between the satellite receiver and antenna. SUR: Press SUR (Surround Sound) repeatedly to step through the available audio effect models: TruSurround XT, Simulated, Off.
23 WIDE	Press repeatedly to step through the Wide Screen Mode setting: Wide Zoom, Normal, Full and Zoom. The Wide Screen Mode setting can be also accessed in the Screen setting. For details, see "Using the WIDE Button" on page 53.
24 DISPLAY	Press once to display channel number, label, current time and other information. Press again to turn Display off. See page 83 for details on setting the time.
25	Press $\ / \ / \ / $ to move the on-screen cursor. To select an item, press $\ + \ $.
26 TOOLS	To be used only with your connected external equipment that supports this TOOLS function. (Non-operable button for TV)
27 WEGA GATE	 Press to access the following through the WEGA GATE: Watch TV (see page 58) Select channels from the Favorites Channels you stored (see page 57) View signals from external equipment such as DVD, VCR and others (see page 59). Adjust or customize TV settings (see Using the Settings on page 59).
28 CH +/-	Press to scan through channels. To scan quickly through channels, press and hold down either +/– button.

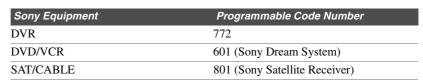
(Continued)

Watching the TV

	Button	Description
29	F1	Press to select the function of connected components. For details, see "Using Other Equipment with Your Remote Control" on page 49.
30	F2	Press to select the function of connected components. For details, see "Using Other Equipment with Your Remote Control" on page 49.

Programming the Remote Control

The remote control is preset to operate Sony brand video equipment.



Follow the steps below to program your TV's remote control to operate the non-Sony video equipment.

Find the three-digit code for your equipment from the "Manufacturer's Codes" listed on page 48. If more than one code number is listed, try entering from the code listed first.

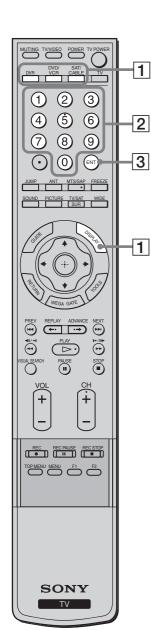
- 1 Press and hold the , , or if FUNCTION button you want to program on the remote control and press the button simultaneously. The selected FUNCTION button (DVR, DVD/VCR or SAT/CABLE) will flash.
- 2 Enter the three-digit manufacturer's code number using the ①-⑨ buttons while the button is lit. If code is not entered within 10 seconds, you must perform step 1 again.
- Press en button.

 When the programming is correct, the selected FUNCTION button will flash twice, and when not, flashes five times.

To check if the code works

Aim your TV's remote control at the equipment, and press the green button. If the equipment turns on and off, the programming is completed. If not, try the next code listed.

- If no code is input within the above specified time, or an invalid or incorrect code number is input, the remote control automatically goes back to the previous setting.
- In some cases, you may not be able to program your remote control to operate other equipment. In such cases, use the equipment's own remote control.
- Using dead batteries or removing the batteries may cause the programmable codes to be lost and revert back to factory settings. Reprogramming the codes may be necessary.



Watching the TV

Manufacturer's Codes DVD Players

Manufacturer	Code
Sony	751
General Electric	755
Hitachi	758
JVC	756
Magnavox	757
Mitsubishi	761
Panasonic	753
Philips	757
Pioneer	752, 778
RCA/PROSCAN	755
Samsung	758
Toshiba	754
Zenith	760

DVD Changers

Manufacturer	Code
Sony	765
Panasonic	766

DVD/VCR Combo Units

Manufacturer	Code	
Sony	767	
Broksonic	776	
JVC	775	
Panasonic	777	
Samsung	774	
Toshiba	773	
Zenith	768	

HDD/DVD Combo Units

Manufacturer	Code
Sony	772, 771, 770

5.1ch DVD AV System

ı	manutacturer	Coae
	Sony (DAV)	601, 602, 603, 604

AV Receivers

Manufacturer	Code	
Sony	764	

VCRs

Manufacturer	Code
Sony	301, 302, 303
Admiral (M. Ward)	327
Aiwa*	338, 344
Audio Dynamic	314, 337
Broksonic	319, 317
Canon	309, 308

Manufacturer	Code
Citizen	332
Craig	302, 332
Curtis Mathes	304, 338, 309
Daewoo	341, 312, 309
DBX	314, 336, 337
Dimensia	304
Emerson	319, 320, 316, 317,
Emerson	318, 341
Fisher	330, 335
Funai	338
General Electric	329, 304, 309
Go Video	322, 339, 340
Goldstar	332
Hitachi	306, 304, 305, 338
Instant Replay	309, 308
JC Penney	309, 305, 304, 330,
-	314, 336, 337
JVC	314, 336, 337, 345,
	346, 347
Kenwood	314, 336, 332, 337
LG	332
LXI (SEARS)	332, 305, 330, 335,
3.6	338
Magnavox	308, 309, 310
Marantz	314, 336, 337
Marta	332
Memorex Minolta	309, 335 305, 304
Mitsubishi/MGA	323, 324, 325, 326
Multitech	325, 324, 323, 320
NEC	314, 336, 337
Olympic Optimus	309, 308
Orion	317
Panasonic	308, 309, 306, 307
Pentax	305, 304
Philco	308, 309
Philips	308, 309, 310
Pioneer	308, 309, 310
Ouasar	308, 309, 306
RCA/PROSCAN	304, 305, 308, 309,
Refut Robertiv	311, 312, 313, 310,
	329
Realistic	309, 330, 328, 335,
	324, 338
Sansui	314
Samsung	322, 313, 321
Sanyo	330, 335
Scott	312, 313, 321, 335,
	323, 324, 325, 326

Manufacturer	Code
Sharp	327, 328
Signature 2000 (M.	338, 327
Ward)	
SV2000	338
Sylvania	308, 309, 338, 310
Symphonic	338
Tashiro	332
Tatung	314, 336, 337
Teac	314, 336, 338, 337
Technics	309, 308
Toshiba	312, 311
Wards	327, 328, 335, 331,
	332
Yamaha	314, 330, 336, 337
Zenith	331

Cable Boxes

Manufacturer	Code
Sony	230
Hamlin/Regal	222, 223, 224, 225,
	226
Jerrold/	201, 202, 203, 204,
General Inst./	205, 206, 207, 208,
Motorola	218, 222
Oak	227, 228, 229
Panasonic	219, 220, 221
Pioneer	211, 214, 215
Scientific Atlanta	209, 210, 211
Tocom	216, 217
Zenith	212, 213

Satellite Receivers

Manufacturer	Code
Sony	801
Dish Network	810
Echostar	810
General Electric	802
Hitachi	805
Hughes	804
Mitsubishi	809
Panasonic	803
Philips	811
RCA/PROSCAN	802, 808
Toshiba	806, 807
Samsung	812

* If an Aiwa VCR does not work even though you enter the code for Aiwa, enter the code for Sony instead.

Using Other Equipment with Your Remote Control

To operate other equipment connected to your TV, first turn to page 48 and program the necessary code. For operating video equipment, press TV/VIDEO repeatedly until you see the video input on the screen for your connected equipment. Remote control tips are provided below.

Some functions cannot be operated depending on the equipment. In that case, operate by the remote control supplied with the equipment.

Operating a Cable Box

To Do This	Press
Activate the remote control to operate the cable box	SAT/CABLE (FUNCTION)
Turn on/off	POWER

To Do This	Press
Select a channel	0-9, ENT
Change channels	CH +/-
Back to previous channel	JUMP

Operating a Satellite Receiver

To Do This	Press
Activate the remote control to operate the satellite receiver	SAT/CABLE (FUNCTION)
Turn on/off	POWER
Select a channel	0-9, ENT
Change channels	CH +/-
Back to previous channel	JUMP
Display channel number	DISPLAY

To Do This	Press
Display SAT Guide	GUIDE
Display SAT Menu	MENU
Move highlight (cursor)	+++
Select item	(+)
Switch between the TV and satellite broadcasts	TV/SAT

Operating a VCR

To Do This	Press
Activate the remote control to operate the VCR	DVD/VCR (FUNCTION)
Turn on/off	POWER
Change channels	CH +/-
Record	•
Play	\triangleright
Stop	

To Do This	Press
Fast forward	>>
Rewind the tape	44
Pause	II (press again to resume normal playback)
Search the picture forward or backward	▶► or ◀◀ during playback (release to resume normal playback)

Operating a DVD Player or DVD Changer

To Do This	Press
Activate the remote control to operate the DVD	DVD/VCR (FUNCTION)
Turn on/off	POWER
If you have a DVD changer, to skip disc	F1
Play	\triangleright
Stop	
Pause	■ (press again to resume normal playback)

To Do This	Press
Step through different tracks of the disc	★ to fast reverse or to fast forward the disc when pressed during playback
Step through different chapters of the disc	▶►I to step forward or I◀◀ to step backward
Select a track directly	0-9, ENT
Display the disc menu	MENU
Display the top menu	TOP MENU
Operate the DVD menu	↑ ↑ ◆ → , (+)

(Continued)

Watching the TV

Operating a 5.1ch DVD AV System (Sony DAV)

DVD/VCR (FUNCTION) POWER
POWER
F1
F2
TOP MENU
MENU

To Do This	Press
Play	\triangleright
Stop	
Pause	II
· ·	
Search the picture forward or backward	d ▶▶ or ◀◀ during playback
Search the picture forward or backwar Specify the previous chapter/track Specify the next chapter/track	d → or ◀ during playback
Specify the previous chapter/track	I44
Specify the previous chapter/track Specify the next chapter/track	

Operating a DVD/VCR Combo Unit

To Do This	Press
Activate the remote control to operate the DVD/VCR	DVD/VCR (FUNCTION)
Turn on/off	POWER
Select the DVD Select the VCR	F 1 F 2
Display the top menu	TOP MENU
Display the disc menu	MENU
Play	\triangleright
Stop	
Pause	II

To Do This	Press		
Search the picture forward or backward ▶▶ or ◀◀ during playback			
Replay	←•		
Advance	•→		
Move highlight (cursor) and select (DVD)	1.4.4.		
Record (VCR)	•		
Change channels (VCR)	CH +/- or 0-9, ENT (using tuner)		
Adjust tracking (VCR)	CH +/- (during tape playback)		

Operating a HDD/DVD Combo Unit

To Do This	Press
Activate the remote control to operate the DVD/HDD	DVR (FUNCTION)
Turn on/off	POWER
Select the HDD Select the DVD	F 1 F 2
Play	\triangleright
Stop	
Pause	II
Search the picture forward or backward	l ▶▶ or ◀◀ during playback

To Do This	Press	
Move highlight (cursor) and select	** ** +	
Record	•	
Specify the previous chapter/track Specify the next chapter/track	44 >>	
Replay	←•	
Advance	•→	
Display the disc menu	MENU	
Display the top menu	TOP MENU	

Operating an AV Receiver

To Do This	Press
Turn on/off	POWER
Master volume	VOL +/-, MUTING
Select other input connected to AV receiver	F1

Special Buttons on the Remote Control

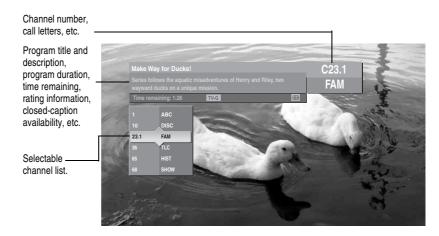
This TV comes with convenient features that can be accessed directly by pressing their buttons on your remote control.

Using the GUIDE Button

This TV is equipped to show program information if it is available from the station. The Program Guide lets you review program information, and select both analog and digital channels.

To display the Program Guide:

- **1** Tune your TV to a channel by using the 0-9, \bigcirc , and ENT buttons.
- **2** Press GUIDE on the TV's remote control. The Program Guide will appear with the currently selected program showing in the background.

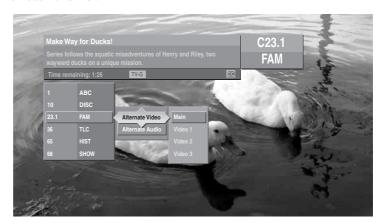


Program information in the guide is provided by the broadcasters. As a result, it may sometimes include only the channel number, without a program title or description.

Watching the TV

Using the Program Guide

The Program Guide allows you to select the channels from a drop down list. The Guide also provides information about the current program being shown on each channel.



Subchannels are additional channels of programming broadcast simultaneously. For example, channel 4 might include three subchannels (4.1, 4.2, 4.3) that are showing programs at the same time.

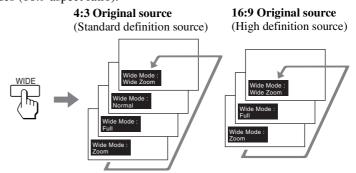
Using the Program Options Setting

The Program Options setting allows you to customize the program settings on the currently tuned channel.

Option	Description
Alternate Video (When available)	Each program has a main video stream (the video that you see when the channel is first tuned), and may have alternate video streams. This option allows you to switch among these alternate video streams.
Alternate Audio (When available)	Each program has a main audio stream (the audio you hear when the channel is first tuned), and may have alternate audio streams. This option allows you to switch among these alternate audio streams (e.g., for different languages).

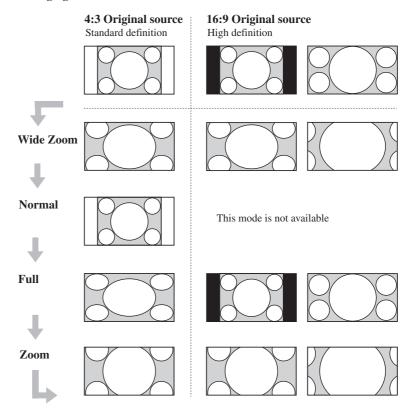
Using the WIDE Button

Wide screen mode lets you watch 4:3 normal broadcasts in several wide screen modes (16:9 aspect ratio).



- Mhen the TV receives a 720p or 1080i signal, Normal cannot be selected.
- When the TV receives a 720p or 1080i signal that is 4:3 aspect ratio picture with a black bar at each side, Full returns the picture to its original size.
- You can also access the Wide Mode settings in the Screen settings. For details, see page 69.

Changing the wide screen mode



Using the JUMP Button

The JUMP button allows you to jump back and forth between the current channel and the last channel that was selected.



Using the FREEZE Button

The FREEZE button allows you to temporarily capture a program's picture. You can use this feature to write down information such as phone numbers, recipes, etc.

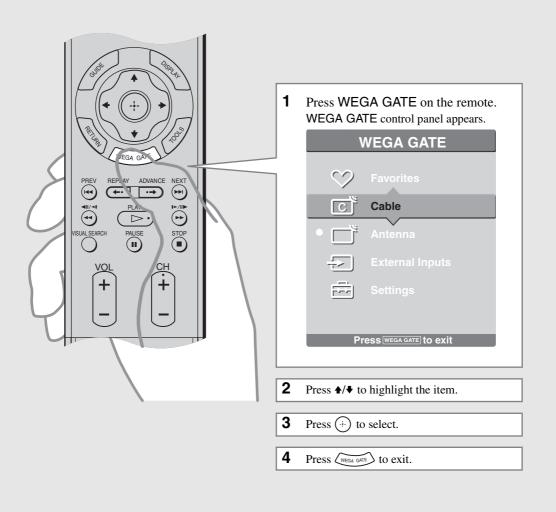
To cancel FREEZE and return to normal viewing, press the FREEZE button again.



Introducing WEGA GATE

Overview of WEGA GATE

WEGA GATE provides one button access for controlling your TV. It enables you to perform a variety of tasks intuitively with a control panel on the screen rather than a variety of remote control button presses. When you press the button, you can select from basic TV function: selecting from Favorite Channels, watching TV, viewing external equipment signals or adjusting TV settings.



Introducing WEGA GATE

The WEGA GATE screen gives you access to the following items:		
Icon	Description	

Icon	Description
	The Favorites feature lets you select programs from a list of up to 16 favorite channels that you specify. For details, see page 57.
Favorites	
Cable	The Cable feature takes you to the most recently viewed channel on the cable input. When tuned to the channel, the Program Banner and Channel number will be displayed. When this feature is active, O is displayed to the left of the icon.
Antenna	The Antenna feature takes you to the most recently viewed channel on the antenna input. When tuned to the channel, the Program Banner and Channel number will be displayed. When this feature is active, O is displayed to the left of the icon.
	The External Inputs feature lets you select equipment that is connected to your TV, such as a DVD player. You can assign a label to your equipment or skip unused inputs conveniently. For details, see page 59. When this feature is active, O is displayed to the left of the icon.
External Inputs	
	The Settings feature lets you adjust the Video, Audio, Screen, Channel, Parental Lock, Setup or Applications settings. For details, see page 59.
Settings	

Navigating and Selecting Items

Use your remote control to navigate through WEGA GATE and the settings.

To Do This	Press
Display WEGA GATE control panel	Press WEGA GATE.
Display Settings	Press WEGA GATE and select Settings.
Move through Settings	Press ↑ ♦ ♦ → .
Select an option to change	Press (+).
Move back to upper layer	Press RETURN.
Select (confirm) changed setting	Press (+).
Exit WEGA GATE control panel or Settings	Press WEGA GATE.

Well and State St

The Favorites feature lets you select programs from a list of up to 16 favorite channels that you specify. You can create a list using the Add to Favorites option.

1 Select Favorites from the WEGA GATE control panel and press (+). The Favorite Channels list appears. Make your selection.



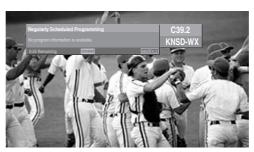
- **2** Press **↑**/**↓** to highlight the desired channel and press ⊕.
 - To add the current channel to the list of Favorite Channels, highlight Add to Favorites and press (+).
 - When the Favorite Channels list is full, select Edit Favorites to remove a channel from the list or go to the Channel settings and select Favorite Channels then edit the channel.

Introducing WEGA GATE

ெர் Using Cable in WEGA GATE

The Cable feature takes you to the most recently viewed channel on the cable input. When tuned to the channel, the Program Banner and Channel number will be displayed.

Select Cable from the WEGA GATE control panel and press \oplus .



If you have not completed the initial channel setup (see page 32) both Cable and Antenna will tune to the lowest channel number. To run Initial Setup see page 72.

ີ້ປsing Antenna in WEGA GATE

The Antenna feature takes you to the most recently viewed channel on the antenna input. When tuned to the channel, the Program Banner and Channel number will be displayed.

Select Antenna from the WEGA GATE control panel and press (+).



If you have not completed the initial channel setup (see page 32) both Cable and Antenna will tune to the lowest channel number. To run Initial Setup see page 72.



Using External Inputs in WEGA GATE

The External Inputs feature lets you view from a selected external input connected to your TV. You can assign a label or skip over unused inputs by selecting Edit Video Labels. Input label assignment can also be done by going to Setup settings and select Label Video Inputs (see page 79).

1 Select External Inputs from the WEGA GATE control panel and press (+).

The External Inputs list appears. Make your selection.



2 Press **↑**/**↓** to highlight the desired external input and press ⊕.



🖫 Using Settings in WEGA GATE

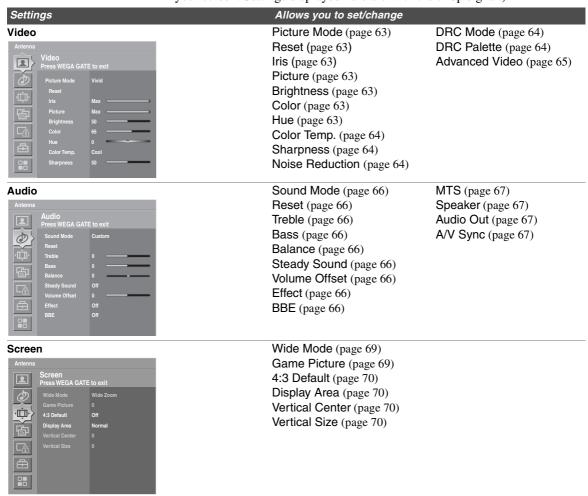
The Settings feature lets you enter to the settings screen where most of advanced settings and adjustments are performed. See "Overview" on page 61.

Using the Settings

Overview

The Settings give you access to the following features:

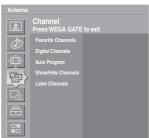
(Depending on the signal tuned, you may see a different Setting options on your screen. Settings displayed here are with the 720p signal.)



Using the Settings

Settings

Channel



Allows you to set/change

Favorite Channels (page 72) Digital Channels (page 72) Auto Program (page 72) Show/Hide Channels (page 72) Label Channels (page 73)

Parental Lock



Parental Lock (page 74) Change Password (page 75) Select Country (page 75)

Setup



Caption Vision (page 78) Info Banner (page 78)

Game Mode (page 78)

Label Video Inputs (page 79)

Language (page 79)

Video 2 (Component) (page 79)

Menu Color (page 79) Image Shift (page 79) High Altitude (page 80)

CineMotion (page 80)

Applications



Clock/Timers (page 83) Diagnostics (page 84) CableCARD (page 84)



Accessing the Video Settings

1. Press WEGA GATE......



2. Select Settings.....



3. Highlight.....



4. Press to select.....



Picture Max

Brightness 50

Color 65

Hue 0

ColorTemp. Cool

Sharpness 50

To highlight an option and to change settings, press $\spadesuit \ \ \bullet \ \ \bullet$. Press (+) to confirm the selection.

Selecting Video Options

To quickly and easily change from one Picture Mode to another, use PICTURE on the remote control.

The Video settings include the following options:

Option	Descriptio	n		
Picture	Vivid	Select for enhanced picture contrast and sharpness.		
Mode Customized	Standard	Select for standard picture settings. Recommended for home entertainment.		
picture viewing	Custom	Select to display a picture with minimum enhancements.		
		You can alter the Video settings (Picture, Brightness, Color, etc.) for each Mode and each video input.		
	indepo includ are au allows	hay set up a "Mode" (Vivid, Standard, Custom) endently for each Video input (Video 1-Video 6, ling the Antenna input). Your "Mode" settings attomatically saved after each selection. This is you to customize the Mode setting for each of signal source.		
Reset		o reset all settings and adjustments to the default setting Advanced Video).		
Iris	Adjust the c	ontrast levels.		
Picture		crease picture contrast and deepen the color or decrease rast and soften the color.		
Brightness	Adjust to br	ighten or darken the picture.		
Color	Adjust to inc	crease or decrease color intensity.		
Hue	Adjust to inc	crease or decrease the green tones.		

Using the Settings

Option	Description		
Color Temp.	Choose from four color temperatures:		
White intensity	Cool	Select to give the white colors a blue tint.	
	Neutral	Select to give the white colors a neutral tint.	
adjustment	Warm 1, 2	When selected Custom in Picture Mode, select to give the white colors a red tint.	
Sharpness	Adjust to shar	-	
Noise	Adjust to sharpen or soften the picture.		
Reduction	Select to reduce the noise level of connected equipment. This also reduces the noise level to the signal from the VHF/UHF jack. Select from Auto, High, Medium, Low and Off.		
	When A availab	ATSC or Component is in use, Auto is not le.	
DRC Mode	High Density	Creates a high-resolution picture with 4 x density, for high quality sources (i.e., DVD player, satellite receiver).	
	Progressive	Recommended for moving pictures.	
	Off	* *	
DRC Palette	Custom	Allows you to customize the level of detail (Reality) and smoothness (Clarity) for up to three input sources. For example, you can create one Custom setting to optimize your cable input's picture, and create another to optimize your DVD player's picture. You can switch among the three Custom settings. 1 Press the arrow buttons to highlight Custom then press ⊕. The DRC palette appears. Custom Press ⊕ to exit Reality (25) Clarity (1) 1 Press the arrow buttons to adjust the position of the marker (♠). As you move the ♠ higher along the Reality axis, the picture becomes more detailed. As you move the ♠ to the right along the Clarity axis, the picture becomes smoother.	

3 To save the setting, press ⊕.

DRC Palette is not available when Game Mode is On, Noise Reduction is set to Auto, DRC Mode is Off or using the Freeze feature; also not available when

watching 480p, 720p or 1080i sources.

Option	Descriptio	n
Advanced Video Available in "Custom Picture Mode"	Program	Select Program to choose among the options: Black Corrector (High/Medium/Low/Off), Advanced Iris (High/Medium/Low/Off), Gamma (Max/High/Medium/Low/Off), Clear White (High/Low/Off), Live Color (High/Medium/Low/Off).

Selecting PC Video Options

To display the PC screen:

Press TV/VIDEO repeatedly on the remote control until VIDEO 7 (PC) appears.



You can change the settings for the PC input while the TV is displaying the PC screen.

The PC Input Video setting includes the following options:

Option	Description		
Display Mode	Video Select to view video images.		
	Text Select to view text, charts or tables.		
Reset	Select to restore the factory default settings.		
Iris	Select to adjust the contrast levels.		
Picture	Adjust to increase or decrease picture contrast.		
Brightness	Adjust to brighten or darken the picture.		
Color Temp.	Choose from four color temperatures:		
	Cool Select to give the white colors a blue tint.		
	Neutral Select to give the white colors a neutral tint.		
	Warm 1, Select to give the white colors a red tint.		

Using the Settings



Accessing the Audio Settings

1. Press WEGA GATE......



2. Select Settings.....



3. Highlight.....



4. Press to select.....



To highlight an option and to change settings, press ♠ ♦ ♦ ♦.

Press \oplus to confirm the selection. To exit the Audio, press \bigcirc .

Selecting Audio Options

- TruSurround XT
 attempts to create the same surround effect produced by a multichannel system using the left and right speakers.

The Audio settings include the following options:

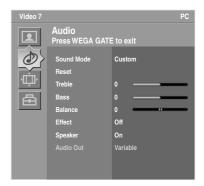
Option	Description		
Sound Mode	Dynamic	Select to enhance treble and bass.	
	Standard	Suitable for spoken dialog.	
	Custom	Flat setting.	
Reset		Reset the following options to the default setting: Treble, Bass, Balance, Steady Sound, Volume Offset, Effect and BBE.	
Treble	Adjust to increase or decrease higher-pitched sounds.		
Bass	Adjust to increase or decrease lower-pitched sounds.		
Balance	Adjust to emphasize left or right speaker balance.		
Steady Sound	On	Select to stabilize the volume across all programs	
		and commercials.	
	Off	Select to turn off Steady Sound.	
Volume Offset	Adjust to increase or decrease the sound level of the current input (TV or video input) relative to other inputs.		
Effect	TruSurround XT	Select for surround sound (for stereo programs only).	
	Simulated	Adds a surround-like effect to mono programs.	
	✓ Simulated uses SRS 3D MONO.		
	Off	Normal stereo or mono reception.	
BBE	Select to give sound more impact by compensating for phase effects in speakers. Select from High, Low, and Off.		

Option	Description		
MTS Enjoy stereo,	Stereo	Select for stereo reception when viewing a program broadcast in stereo.	
bilingual and mono programs	Auto SAP	Select to automatically switch to second audio programs when a signal is received. (If no SAP signal is present, the TV remains in Stereo mode.)	
	Mono	Select for mono reception. (Use to reduce noise during weak stereo broadcasts.)	
		vailable only for analog programs.	
Speaker	On	Select to turn on the TV speakers.	
	Off	Select to turn off the TV speakers and listen to the TV's sound only through your external audio system speakers.	
	available	ING button on your remote control is when Audio Out is set to Variable, and nonfunctional when set to Fixed.	
Audio Out	This option can be set only when the Speaker option is set to		
Easy control of volume adjustments	Variable	The TV's speakers are turned off and the audio output from your audio system can still be controlled by the TV's remote control.	
	Fixed	The TV's speakers are turned off, and the audio output of the TV is fixed. Use your audio receiver's volume control to adjust the volume (and other settings) through your audio system.	
A/V Sync	Off/1/2/3	Use this option to make adjustments to audio and video synchronization when you have external equipment connected to DIGITAL AUDIO (OPTICAL) OUT of the TV. Select Off (factory default setting) to make no adjustments. Select 1, 2 or 3 to adjust so that the video and audio from your connected external equipment are in synchronized.	

Selecting PC Audio Options

To display the PC screen:

Press TV/VIDEO repeatedly on the remote control until VIDEO 7 (PC) appears.



You can change the settings for the PC input while the TV is displaying the PC screen.

The PC Input Audio setting includes the following options:

	U	C 1
Option	Description	
Sound Mode	Dynamic	Select to enhance treble and bass.
	Standard	Suitable for spoken dialog.
	Custom	Flat setting.
Reset	Select to restore	e the factory default settings.
Treble	Adjust to increa	ase or decrease higher-pitched sounds.
Bass	Adjust to increa	ase or decrease lower-pitched sounds.
Balance	Adjust to emph	asize left or right speaker balance.
Effect	TruSurround XT	Select for surround sound (for stereo programs only).
	Simulated	Adds a surround-like effect to mono programs.
	Off	Normal stereo or mono reception.
Speaker	On	Select to turn on the TV speakers.
	Off	Select to turn off the TV speakers and listen to the TV's sound only through your external audio system speakers.
Audio Out	This option car Off.	n be set only when the Speaker option is set to
Easy control of volume adjustments	Variable	The TV's speakers are turned off, but the audio output from your audio system can still be controlled by the TV's remote control.
	Fixed	The TV's speakers are turned off and the audio output of the TV is fixed. Use your audio receiver's volume control to adjust the volume (and other settings) through your audio system.



Accessing the Screen Settings

1. Press WEGA GATE......



2. Select Settings.....



3. Highlight.....



or 1080i.

4. Press to select.....





To highlight an option and to change settings, press ♠ ♦ ♦ ♦.

Press (+) to confirm the selection.

To exit the Screen, press (VECOL OFF).

Selecting Screen Options

Wide Mode is unavailable while in Freeze (page 54). The Screen settings include the following options:

Option	Description		
Wide Mode Select a screen mode to use for	Wide Zoom	Select to enlarge the 4:3 picture, to fill the 16:9 screen, keeping the original image as much as possible.	
4:3 sources.	Normal	Select to return the 4:3 picture to its original size and aspect ratio.	
	Normal is not available when you are watching 720p or 1080i sources.		
	Full	Select to enlarge the 4:3 picture horizontally only, to fill the display area.	
	Zoom	Select to proportionally enlarge 1080i and 720p sources, For 480p and 480i sources, Zoom will vertically stretch the image to fill the screen.	
		Mode setting to another, use the WIDE trol (see page 53).	
Game Picture	Allows you to move the position of the picture left and right in the window. (This feature also allows you to adjust the picture from any connected equipment.) Select while watching the picture to be adjusted. The TV stores the position in memory for each input. Press ◆ or ◆ and press ⊕ to choose a correction between +5 and −5.		
Mot availab	le in Full and N	lormal mode when sources are in 720p	

(Continued)

Using the Settings

if 4:3 Default is set to anything but Off, the Wide Mode setting changes only for the current channel. When you change channels (or inputs), Wide Mode is automatically replaced with the 4:3 Default setting. To retain the current Wide Mode setting as channels and inputs are changed, set 4:3 Default to Off.

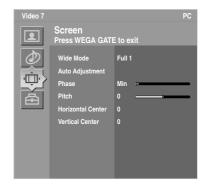
Option	Description		
4:3 Default Select the default screen mode to	Wide Zoom	Select to enlarge the 4:3 picture, to fill the 16:9 screen, keeping the original image as much as possible.	
use for 4:3 sources.	Normal	Select to return the 4:3 picture to normal mode.	
	Full	Select to enlarge the 4:3 picture horizontally only, to fill the display area.	
	Zoom	Select to enlarge the picture horizontally and vertically to an equal aspect ratio that fills the wide screen.	
	Off	Select to continue using the current screen mode setting when the channel or input is changed.	
Display Area	Select Normal to return to the default display area. Select -1 or -2 to keep the edge of the picture out of screen.		
Vertical Center	Allows you to move the position of the picture up and down in the window. (Available only in Zoom mode.)		
	Press \bullet or \bullet and press $\stackrel{(+)}{\leftarrow}$ to choose a correction between +5 and -5.		
Vertical Size	Allows you to adjust the vertical size of the picture. (Available only in Zoom mode.)		
	Press ♠ or ♥ and press (+) to choose a correction between +5 and -5.		

Selecting PC Screen Options

When there is no signal input, all settings are not available.

To display the PC screen:

Press TV/VIDEO repeatedly on the remote control until VIDEO 7 (PC) appears.



✓ You can change the settings for the PC input while the TV is displaying the PC screen.

The PC Input Screen setting includes the following options:

Option	Description		
Wide Mode	Normal	Select to display the picture in its original size.	
	Full 1	Select to enlarge the picture to fill the display area, keeping its original horizontal-to-vertical ratio.	
	A black frame will appear on the surrounding of the picture.		
	Full 2	Select to enlarge the picture to fill the display area.	
	A black frame will appear on the surrounding of the picture.		
	Zoom	Select to enlarge the picture horizontally and vertically to an equal aspect ratio that fills the wide screen.	
Auto Adjustment	Select to automatically adjust the display position of the picture when the TV receives an input signal from the connected PC. Note that Auto Adjustment may not work well with certain input signals. In such cases, manually adjust the options below.		
Phase	Select to adjust the phase when the screen flickers.		
Pitch	Select to adjust the pitch when the picture has unwanted vertical stripes.		
Horizontal Center	Select to adjust the horizontal position of the picture. Allows you to move the picture left and right in the window. Press ◆ or ◆ and press ⊕ to choose a correction between +50 and -50.		
	∠ The variable range depends on the signal.		
Vertical Center	Allows you to 1	the vertical position of the picture. move the picture up and down in the window. nd press (+) to choose a correction between +50	
	The variance	able range depends on the signal.	

Select Zoom in the Wide Mode option to display movies and other content on DVD, using the entire viewable area of the screen.



Accessing the Channel Settings

1. Press WEGA GATE......



2. Select Settings.....



3. Highlight.....



4. Press to select.....



Antenna

Channel
Program favorite channels
Program
Auto Program
Showhida Channels
Label Channels
Label Channels

To highlight an option and to change settings, press $\bullet \bullet \bullet$.

Press (+) to confirm the selection.

To exit the Channel, press (MIGGA GATE).

Selecting Channel Options

The Channel settings include the following options:

Channels that you set to Hidden can only be accessed with the 0-9 buttons.

Option	Des	scription		
Favorite Channels	Lets you set up a list of your favorite channels. For details, see "Using Favorites in WEGA GATE" on page 57.			
Digital Channels	Add	Select to add digital channels.		
Auto Program	Automatically sets up the channel list on the TV for all receivable channels for the current input (VHF/UHF or CABLE). Select to start the Auto Program. Auto Program may take up to 20 to 50 minutes to complete. A progress bar will display the approximate progress of the Auto Program and Digital Channels/Add sequences.			
Show/Hide Channels	Gui Cha	ows you to show or hide channels that appear in the Program de and when you use the CH+/- buttons to channel surf. nnels that are set to Hidden do not appear in the Program de or when you use the CH+/- buttons.		
	1	Press $lacktriangle$ or $lacktriangle$ to highlight the channel that you want to show or hide.		
		To move between the Major and Digital subchannel lists, press ◆ or ◆.		
	2	To change a channel's setting to Shown or Hidden, press (+).		
	3	To show or hide more channels, repeat steps 1 and 2.		

Option Description

- If you select to hide or show a major digital channel, all the subchannels are automatically hidden or shown. To show or hide an individual sub-channel within a digital channel, you must individually select that sub-channel to show or hide.
- If you hide all sub-channels of a major digital channel, that digital channel is automatically set to Hidden.

Label Channels Allows you to assign labels (such as station call letters) to channel numbers.

- 1 Press ♠ or ♥ to scroll through the channel numbers. Then press ⊕ to select the channel number that you want to assign a label.
- Press ♠ or ♥ to scroll through the label characters (A-Z, 0-9, etc.). Then press ⊕ to select the highlighted character. Repeat to add characters to the label.
- 3 Press ♦ to return to the Channel setting, or press WEGA GATE to exit the settings.



Accessing the Parental Lock Settings

1. Press WEGA GATE......



2. Select Settings.....



3. Highlight.....



4. Press to select.....





To highlight an option and to change settings, press $\bullet \bullet \bullet$.

Press (+) to confirm the selection.

To exit the Parental Lock, press vers.

The Parental setting allows you to set up the TV to block programs according to their content and rating levels.

You need your password for any future access to the Parental Lock settings. If you have lost your password, see "Lost password" on page 93.

Selecting Parental Lock Options

The Parental Lock settings include the following options:

Option	Description			
Parental Lock Turn ratings on/off and select a rating system	Off	Turn Parental Lock off. No programs are blocked from viewing.		
	Child	Maximum ratings permitted are: U.S.: TV-Y, TV-G, G Canada: C, G, TV-Y		
	Youth	Maximum ratings permitted are: U.S.: TV-PG, PG Canada: C8+, PG, 8 ans+, TV-PG		
	Y. Adult	Maximum ratings permitted are: U.S.: TV-14, PG-13 Canada: 14+, 13 ans+, TV-14		
	Custom	Select to set ratings manually. U.S.: See page 76 for details. Canada: See page 77 for details.		

- if you are not familiar with the Parental Guideline rating system, you should select Child, Youth, or Y.Adult to help simplify the rating selection. To set more restrictive ratings, select Custom.
- For descriptions of Child, Youth, and Y.Adult ratings, see page 74.

Option	Description		
Change Password	Select to c	hange your password.	
Select Country	U.S.A.	Select to use USA ratings (see page 76).	
	Canada	Select to use Canadian ratings (see page 77).	

To deactivate the parental control feature

☐ Set Parental Lock to OFF when in the Parental Lock setting.

To change the password

- 1 In the Parental Lock setting, use the arrow buttons to highlight Change Password, and press (+) to select it.
- **2** Enter a new four-digit password using the 0-9 buttons.
- **3** Confirm the new password by entering it again.
- **4** Press WEGA GATE to exit the setting screen.

Viewing Blocked Programs

You can view a blocked program by entering the password.

- **1** Press ENT when tuned to a blocked program.
- **2** Enter your password using the 0-9 buttons. Parental control will be canceled temporarily until you turn your TV off.

Selecting Custom Rating Options

To ensure maximum blocking capability, the age-based ratings should be blocked.

if you select Block, be aware that the following programs may be blocked: news, sports, weather, emergency broadcasts, political programs, public service announcements, and religious programs.

US custom rating options

If you selected U.S.A. as the country of residence on page 75, the Custom Rating setting includes the following options. (If you selected Canada, see page 77.)

Option	Descript	tion		
Movie Rating	G	All children and general audiences.		
	PG	Parental guidance suggested.		
	PG-13	Parental guidance for children under 13.		
	R	Restricted viewing, parental guidance is suggested for children under 17.		
	NC-17 and X	No one 17 and under.		
TV Rating	Age-Base	d Options		
Block programs	TV-Y	All children.		
by their rating, content or both	TV-Y7	Directed to children age 7 and older.		
content or both	TV-G	General audience.		
	TV-PG	Parental guidance suggested.		
	TV-14	Parents strongly cautioned.		
	TV-MA	/-MA Mature audience only.		
	Content-Based Options			
	FV	Fantasy violence.		
	D	Suggestive dialog.		
	L	Strong language.		
	S	Sexual situations.		
	V	Violence.		
Unrated Block programs	Allow	Allows programs and movies that are broadcast without a rating.		
or movies that are broadcast without a rating	Block	Blocks all programs and movies that are broadcast without a rating.		

The content ratings will increase depending on the level of the age-based rating. For example, a program with a TV-PG V (Violence) rating may contain moderate violence, while a TV-14 V (Violence) rating may contain more intense violence.

Canadian custom rating options

If you selected Canada as the country of residence on page 75, the Custom Rating setting includes the following options. (If you selected U.S.A., see page 76.)

Option	Description		
English Rating	С	All children.	
	C8+	Children 8 years and older.	
	G	General programming.	
	PG	Parental guidance.	
	14+	Viewers 14 and older.	
	18+	Adult programming.	
French Rating	G	General programming.	
	8 ans+	Not recommended for ages under 8.	
	13 ans+	Not recommended for ages under 13.	
	16 ans+	Not recommended for ages under 16.	
	18 ans+	Programming restricted to adults.	
U.S.A. Rating	See "TV Ratin	g" on page 76 for details.	



Accessing the Setup Settings

1. Press WEGA GATE......



2. Select Settings.....



3. Highlight.....



4. Press to select.....





To highlight an option and to change settings, press $\bullet \bullet \bullet$.

Press (+) to confirm the selection.

To exit the Setup, press with the Setup.

Selecting Setup Options

The Setup settings include the following options:

Option	Description			
Caption Vision	Allows you to select from four closed caption modes (for programs that are broadcast with closed captioning).			
	On	Caption Vision is turned on.		
	Off	Caption Vision is turned off.		
	Program	Allows you to set basic and advanced Caption Vision options. See "Programming Caption Vision" on page 80.		
Info Banner	remaining and other service). Also display	Set to On or Off. Select On to display the program name, time remaining and other information (if the broadcaster offers this service). Also displays when the channel is changed or the DISPLAY button is pressed.		
Game Mode	On	Select to optimize the lipsync when playing games.		
	Off	Select to turn off the Game Mode.		

Option	Description			
Label Video Inputs	Allows you to label the audio/video equipment you have connected to the TV so you can identify them when using TV/VIDEO. When in this setting:			
	1 Press ♠ or ♥ to his to select it.	Press ♠ or ♦ to highlight an input to label, then press ⊕ to select it.		
		Use the arrow buttons to scroll through the labels.		
	Press + to select the input jacks on	Press (+) to select the equipment you connected to each of the input jacks on the back of your TV.		
	Select Skip if you a particular input.	do not have any equipment connected to		
	Video 1-6	Video 1-6, VHS, DVD, Receiver, Satellite, Cable Box, 8mm, DTV, Game, LD, Beta, HD, DVR, Camcorder, Skip		
	Video 7	Video 7, PC, DVD, HD, Game, Skip		
	If you select Skip, your TV skips the selected connection when you press TV/VIDEO.			
Language	Select to display all on-screen settings in your language of choice: English, Español, Français.			
Video 2 (Component)	Auto	Select to switch automatically between the component video jacks (Y PB/CB PR/CR, AUDIO L (MONO)/AUDIO R) and the composite video jacks (VIDEO, AUDIO L (MONO)/AUDIO R) on the left side of the TV (VIDEO/HD/DVD 2 IN) depending on the cable connection.		
	Off	Select to activate the composite video jacks (VIDEO/AUDIO L(MONO)/AUDIO R) on the left side of the TV.		
Menu Color	Enables you to select a	specific color for the on-screen settings.		
Image Shift	Corrects the image on	your TV.		
	Before adjusting	After adjusting		

if you use the composite connection when Video 2 (Component) is set to Auto, do not connect the component cable at the same time. Otherwise select Off.





Auto	(Factory setting) Automatically corrects double images.
Level 1-4	Select a level from 1-4 to align the images and improve the picture.

(Continued)

Option	Description
High Altitude	Select On to use the TV at an altitude of 5,000 feet (1,500 m) or higher. Select Off to use the TV at normal altitude.
CineMotion	Select Auto to optimize the screen display automatically detecting film content and applying a reverse 3-2 pulldown process. Moving picture will appear clearer and more natural looking. Select Off to disable the detection.

Programming Caption Vision

If you selected the Program option under Caption Vision (see page 78), you can change the following settings:

Option	Description				
Basic	Allows you to select basic analog (EIA-608) closed caption options.				
	CC1, CC2, CC3, CC4	Displays a printed version of the d of a program. (Should be set to CC	•		
		xt1, Text2, Displays network/station information presented using xt3, Text4 either half or the whole screen (if available).			
Digital CC		set digital closed captioning to Ba (digital EIA-708).	asic (digital EIA-608)		
Advanced	•	select advanced digital (EIA-708) t from the available options.) closed caption		
Advanced Settings		make additional settings for digitals. Select from As Broadcast, Sm			
	Custom	Allows you to customize the following settings:			
		Character Size	Small, Standard, Large		
		Character Style	Style 1-7		
		Character Color	Color 1-8		
		Character Opacity	Solid, Translucent		
		Edge Color	Color 1-8		
		Edge Type	None, Raised, Depressed, Outline, Left Shadow, Right Shadow		
		Background Color	None, Color 1-8		
		Background Opacity	Solid, Translucent		
		Window Color	None, Color 1-8		
		Window Opacity	Solid, Translucent		

Selecting PC Setup Options

To display the PC screen:

Press TV/VIDEO repeatedly on the remote control until VIDEO 7 (PC) appears.



✓ You can change the settings for the PC input while the TV is displaying the PC screen.

The PC Input Setup setting includes the following options:

Option	Description			
Power Management	On	Select to automatically switch to the Power Saving mode when there is no signal input for 10 minutes.		
	Off	Select to turn off Power Management.		
Language		Select to display all on-screen settings in your language of choice: English, Español, Français.		
Menu Color	-	Enables you to select a specific color for the on-screen settings from Original, Gray, Red, Green and Purple.		
Image Shift	Auto (Factory setting) Automatically corrects doubling images.			
	Level 1-4	Select a level from 1-4 to align the images and improve the picture.		
High Altitude		Select On to use the TV at an altitude of 5,000 feet (1,500 m) or higher. Select Off to use the TV at normal altitude.		

PC Input Signal Compatibility Chart

Resolution				Horizontal	Vertical	VESA standard
Signals	Horizontal (Dot)	×	Vertical (Line)	frequency (kHz)	frequency (Hz)	
VGA	640	×	480	31.5	60	_*
	640	×	480	37.5	75	V
	640	×	480	43.3	85	✓
	720	×	400	31.5	70	_*
SVGA	800	×	600	35.2	56	✓
_	800	×	600	37.9	60	✓
	800	×	600	46.9	75	✓
	800	×	600	48.1	72	✓
XGA**	1024	×	768	48.4	60	✓
	1024	×	768	56.5	70	✓
	1024	×	768	60	75	~
WXGA**	1280	×	768	47.4	60	✓
	1280	×	768	47.8	60	V

^{*:} Corresponding to the VGA signal

- In This TV does not support Sync on Green or Composite Sync.
- If a signal other than in the above chart is input, it may not be displayed properly or may not be displayed as you set.
- 🖾 Using the Vertical frequency (Hz) of the personal computer at 60 is recommended.
- Noise may be detected under certain conditions. If unsupported signals are used, you will see the message, "Unsupported Signal".

^{**:} These signals do not support Normal display mode.



Accessing the Applications Settings

1. Press WEGA GATE......



2. Select Settings.....

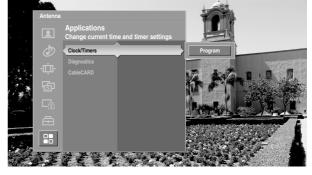


3. Highlight.....



4. Press to select.....





To highlight an option and to change settings, press $\bullet \bullet \bullet$.

Press \oplus to confirm the selection.

To exit the Applications, press (MEGA GARE).

Selecting Applications Options

The Applications settings include the following options:

Option	Description					
Clock/Timers	Select to set the clock and to program your TV to turn on and off at two scheduled viewing times. Once the options are set, TIMER LED lights up in red.					
	Sleep	Allows you to select the amount of time (Off, 15 minutes, 30 minutes, 45 minutes, 60 minutes or 90 minutes) that you want the TV to remain on before shutting off automatically.				
	Timer 1 Timer 2	You can use the Timers to program the TV to turn on and off and tune to a specific channel at two scheduled viewing times.				
	Timer 1 and Timer 2 cannot be set until you set the Current Time.					
	1 Press ♠ or ♦ to highlight Timer 1 or Timer 2. To set the timer, press ♠.					
	To go directly to programming Timer 1 or 2, press instead of pressing ▶.					

Option	De	scription		
	2	Press ♠ or ♥ to highlight one of the following options, then press ⊕.		
		Program	Select to set the Timer by day, time, duration, and channel.	
		Off	Select to turn off the Timer. (Your previous settings are saved.)	
	3	If you selected Program in step 2, press ♠ and ♠ to set the day(s), hour, minute, AM/PM, duration, and channel number. Press ⊕ or press ♠ to confirm each setting and move to the next setting. Press ♠ to go back to the previous setting.		
	4	Press WEGA GATE to exit the setting screen. An LED on the front panel will light, indicating the Timer has been set. Trent Time You can set the current time.		
	Cui			
	1	Press 🕂 to s	select Current Time.	
	2	Press ♠ and ♦ to set the current time (day, hour, minute, and AM/PM). Press ⊕ (or press ♦) to confirm each setting and move to the next setting. Press ♠ to go back the previous setting.		
	3	Press WEGA GATE to exit the setting screen.		
Diagnostics	use	play diagnostics information about the TV. This can be ful in providing information to an authorized technician or air person.		
CableCARD		s list of selectable CableCARD options will vary, depending our cable service provider.		

Other Information

Overview

This chapter includes the following topics:

Topic	Page
Contacting Sony	85
Replacing the Lamp	86
Troubleshooting	90
Specifications	94
Optional accessories	95
Index	96

Contacting Sony

If, after reading these operating instructions, you have additional questions related to the use of your Sony television, please call our Customer Information Services Center.

For US residents: 1-800-222-SONY (7669) or visit: http://www.sonystyle.com/tv/

For Canadian residents: 1-877-899-SONY (7669)

or visit: http://www.sonystyle.ca/tv/

Before calling Sony customer support, please write down the model and serial numbers of your TV. You'll find this information on the front cover of this manual.

Replacing the Lamp

The projection lamp, which illuminates the picture, has a limited life.

If the screen becomes dark, the color looks unusual, or the LAMP indicator on the front of the TV flashes, it is time to replace the lamp with a new one (not supplied).

/ WARNING

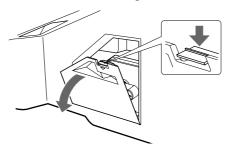
Electric appliances can cause fire or high temperature, resulting in injury or death. Be sure to follow the instructions below.

- Use a Sony XL-2400 replacement lamp (not supplied) for replacement. Use of any other lamp may damage the TV.
- Do not remove the lamp for any purpose other than replacement. Doing so may cause injury or fire.
- ☐ Do not put flammable materials and metal objects inside the lamp receptacle of the TV after removing the lamp. Doing so may cause fire or electrical shock. Do not touch the lamp receptable once the lamp has been removed.
- ☐ When the lamp eventually burns out, you may hear a noticeable pop sound. This is normal and it is inherent to this type of lamp.
- ☐ In rare instances, the bulb may pop inside the lamp unit, but the lamp unit is designed to contain all of the broken glass pieces inside the lamp unit.
- The lamps contain mercury. For proper disposal of the used lamps, follow and observe the local ordinances. See page 89.

How to Replace the Lamp

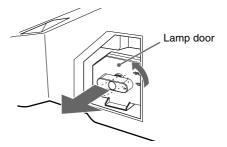
- Turn off the power on the main unit. Wait several minutes, then unplug the power cord.
 - (The cooling fan will continue to operate for about two minutes after turning the power off.)
- **2** Wait at least 30 minutes after unplugging the power cord to allow the lamp to cool down before replacing it. To avoid being burned, do not touch the lamp receptable once the lamp has been removed.
- **3** Take the new lamp out of the box. Do not touch the glass portion of the new lamp.
 - Do not shake the lamp. Vibration can damage the lamp or shorten its life.
 - Avoid touching the front glass of a new lamp or the glass of the lamp receptacle. This may reduce picture quality or lamp life.

4 Remove the outside lamp cover.



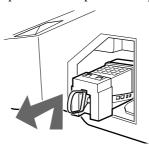
5 Remove the lamp door.

Turn the knob counterclockwise to OPEN and pull out the cover.



6 Pull out the lamp.

Hook a finger through the loop of the lamp handle and pull the handle upwards. Then pull the lamp straight out.

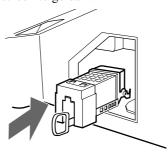


- The lamp is very hot immediately after use. Never touch the glass portion of the lamp or the surrounding parts.
- After the used lamp has cooled, place it into the empty box of the replacement lamp. Never put the used lamp into a plastic bag.

Other Information

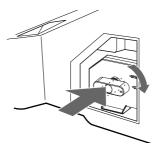
7 Put the new lamp into its place.

Mount the new lamp securely. Failure to do so may cause a fire or the screen to go dark.



- If the lamp is not securely reattached, the self-diagnostic function may be triggered and the POWER/STANDBY indicator flashes three times (see page 12).
- **8** Reattach the lamp door.

 Turn the knob back to CLOSE and secure the cover.



9 Put the outside lamp cover back in its place.



- Consult your Sony dealer for a Sony XL-2400 replacement lamp.
- Take great care when replacing the lamp or plugging in/unplugging the connecting cords. Rough handling may cause the TV to fall, damaging the TV, the TV stand and the floor.

The used lamp

This product contains mercury. Disposal of this product may be regulated if sold in the United States. For disposal or recycling information, please contact your local authorities or the Electronics Industries Alliance (http://www.eiae.org).

- □ Do not leave the used lamp near flammable materials or within the reach of children.
- Do not pour water onto the used lamp or put any object inside the lamp. Doing so may cause the lamp to burst.

For replacement lamp information visit: U. S. residents: http://www.sonystyle.com/tv/ Canadian residents: http://www.sonystyle.ca/tv/

Other Information

Troubleshooting

Remote Control

Problem	Ро	ssible Remedies	
Remote control does not		The batteries could be weak. Replace the batteries.	
operate		Check the orientation of the batteries.	
•		Press TV (FUNCTION) once, and the TV indicator lights up. You may have inadvertently pressed SAT/CABLE (FUNCTION), which changes the remote control to SAT or CABLE mode.	
		Make sure this unit's power cord is connected securely to the wall outlet.	
		Install the unit at least 3-4 feet away from fluorescent lights.	
		If the "High Temperature Warning!" message appears, turn off the TV and wait until the TV's projection lamp cools down (approximately 5 minutes). If the remote control still does not work, make sure to dust the ventilation slots on the	
		rear of the TV and the cooling fan to provide adequate ventilation around the TV.	
Cannot change channels with the remote control		If you are using the TV to change channels, first press TV (FUNCTION) once, and the TV indicator lights up.	
		If you are using another device to change channels, be sure you have not inadvertently switched your TV from the channel 3 or 4 setting.	
		If you are using another device to change channels, be sure to press FUNCTION for that device. For example, if you are using your cable box to change channels, be sure to press SAT/CABLE (FUNCTION) once, and the SAT/CABLE indicator lights up.	
Remote control does not operate non-Sony video		If you replaced the batteries to the remote recently, the code numbers for the video equipment may need to be reset.	
equipment		There may be more than one code for the equipment that you are attempting to operate.	
		There is a possibility that some non-Sony equipment cannot be operated by your Sony TV remote. You may need to use the equipment's original remote control.	

CableCARD Device

Problem Po	ossible Remedies
Problems using CableCARD	Check that the CableCARD is inserted properly (see pages 30-31).
device or CableCARD services	The CableCARD device must be activated by your local cable TV provider before you can receive digital cable TV services. See the activation instructions on pages pages 30-31.
ه .	Check the Diagnostics and CableCARD setting options (see page 84). (This can be useful in providing information to an authorized technician or repair person.) Contact your cable TV provider.

Video

Problem	Po	ssible Remedies
No picture (screen not lit), no sound	0 0000	If your TV does not turn on and a red light keeps flashing, your TV may need service. Call your local Sony Service Center. Make sure the power cord is plugged in. Press POWER on the front of the TV. Press TV/VIDEO to cycle through the connected video sources. Try another channel; it could be station trouble.
Dark, poor or no picture (screen lit), good sound		Adjust the Picture Mode option in the Video setting (see page 63). Adjust the Brightness option in the Video setting (see page 63). Check the antenna/cable connections.
No color/dark picture/color is not correct		Adjust the Color option in the Video setting (see page 63).
Only snow and noise appear on the screen	0	Check the antenna/cable connections. Try another channel; it could be station trouble. Press ANT to change the input mode (see page 44).
Dotted lines or stripes		Adjust the antenna. Move the TV away from noise sources such as cars, neon signs, or hair dryers.
Double images	<u> </u>	Using a highly directional outdoor antenna or a cable may solve the problem. Set Image Shift to an appropriate value. The default setting is Auto. If doubled images appear with Auto, select the best value from 1 to 4 (see page 79).
"Black box" on screen		You have selected a text option in the Setup setting and no text is available. (See page 78 to reset Setup selections.) To turn off this feature, set the Caption Vision option to Off. If you were trying to select closed captioning, select CC1 instead of Text 1-4.
Black bands appear at the top and bottom of the screen		Some wide-screen programs are filmed in aspect ratios that are greater than 16:9 (this is especially common with theatrical releases). Your TV will show these programs with black bands at the top and bottom of the screen. For more details, check the documentation that came with your DVD (or contact your program provider).
Certain programs on DVD or other digital sources display a loss of detail, especially during fast-motion or dark scenes		The compression used by certain digital broadcasts and DVDs may cause your TV's screen to display less detail than usual, or cause artifacts (small blocks or dots, pixelations) to appear on your screen. This is due to your TV's large screen and ability to show very fine detail, and is normal for certain digitally recorded programs. Adjust the reality/clarity in the DRC Palette setting (see page 64) to optimize the picture while viewing these sources.
"Iris Unit error" appears while Advanced Iris is active		The Iris Control may have a problem. Call your local Sony Service Center.

Other Information

Audio

Problem	Possible Remedies		
Good picture, no sound	0 0 0	Press MUTING so that Muting disappears from the screen (see page 44). Make sure the Speaker option is set to On in the Audio setting (see page 67). Make sure the MTS option is set to Stereo or Mono (see page 67). When the HDMI IN input is in use, surround sound, such as AC-3 and DTS, cannot be input. Change the sound setting for the external input device to Linear PCM.	
Audio noise		Communication problems may occur if infrared communication equipment (e.g., infrared cordless headphones) is used near the TV. Use headphones other than infrared cordless headphones. Also, if you use infrared communication equipment other than infrared cordless headphones, move the infrared transceiver away from the TV until the noise is eliminated, or move the transmitter and receiver of the infrared communication equipment closer together.	
Cannot gain enough volume when using a cable box		Increase the volume of the cable box using the cable box's remote control. Then press TV(FUNCTION) once (the TV indicator lights up) and adjust the TV's volume.	
Sound seems weak or insufficient	ū	The TV's audio might be set to Auto SAP or Mono, when it might be better set to Stereo. In the Audio setting (see page 67), set the MTS setting to Stereo. If already set to Stereo, switch to Mono (which may reduce background noise during weak stereo broadcasts).	
Cannot raise the volume on external speakers	0	If the Speaker option is set to Off and the Audio Out option is set to Fixed (in order to output the sound to your audio system), use your audio receiver to adjust the sound (see page 67). Or, to use the TV remote control, set the Audio Out option to Variable. To turn on the TV speakers, set the Speaker option to On (see page 67).	

Channels

Problem	Ро	ssible Remedies
Cannot receive upper channels (UHF) when using an antenna		Press ANT to select the VHF/UHF input (see page 44). Use Auto Program in the Channel setting to add receivable channels that are not presently in the TV's memory (see page 72).
Cannot receive any channels when using cable TV		Use Auto Program in the Channel setting to add receivable channels that are not presently in the TV's memory (see page 72). Press ANT to select the CABLE input (see page 44).
Cannot receive or select channels		Use Auto Program in the Channel setting to add receivable channels that are not presently in TV memory (see page 72).
Some digital cable channels are not being displayed	0	Certain cable companies have limitations on the broadcast of digital cable channels. Check with your cable company for more information. The digital cable channel may be set to Hidden in the Channel setting (see page 72).

General

Problem	Pos	ssible Remedies
How to reset TV to factory settings		Turn on the TV. While holding down the ↑ button on the remote control, press the POWER button on the TV. (The TV will turn itself off, then back on again.) Release the ↑ button. WARNING: The Factory Reset will clear all of your customized settings including Parental Lock setting.
How to restore Video settings to factory settings		Select Reset setting option while in the Video setting (see page 66).
How to restore Audio settings to factory settings		Select Reset setting option while in the Audio setting (see page 66).
Cannot cycle through the other video equipment connected to the TV		Be sure the Label Video Inputs option is not set to Skip (see page 79).
Cannot operate the setting		If a setting option appears in gray, this indicates that the setting option is not available.
Lost password		On the password screen (see page 74), enter the following master password: 4357. The master password clears your previous password; it cannot be used to temporarily unblock channels.
TIMER LED on front panel is lit		When lit, indicates that the timer is set (see page 83). When the timer is set, this LED will remain lit even when the TV is turned off.
LAMP LED blinks in red		Replace the lamp (see page 86).
Digital cable box does not work		If you are connecting a VCR and digital cable box using a splitter, as described on page 35, you must use a special bi-directional splitter that is designed to work with your digital cable box. Contact your cable provider for details.
Cannot record digital channels to VCR		Only analog channels can be recorded to your VCR.
TV cabinet creaks		When the TV is in use, there is a natural rise in temperature, causing the cabinet to expand or contract and may be accompanied by a slight creaking noise. This is not a malfunction.
A slight creaking noise occurs from the bottom part of the TV		Advanced Iris applies a mechanical iris system. When Advanced Iris is set, a natural creaking noise occurs due to the basic structure of the optical unit. The creaking sound is an inherent nature of this system and is not a defect.
The cooling fan is loud		If the TV is used at high altitudes and High Altitude is set to On, the cooling fan runs faster and its sound becomes louder. If the TV is not used at high altitudes, set High Altitude to Off (see page 81).
"High Temperature Warning!" appears		Make sure to remove dust from the ventilation slots on the rear and both sides of the TV. In addition, make sure that there are no obstacles in front of the ventilation slots. If the message still appears after the dust or obstacles are removed, the TV may need servicing. Call your local Sony Service Center.
The TV does not turn on		The TV cools down its projection lamp when the power is turned off. It takes up to two minutes for the picture to come back after the TV is turned on again. Wait for a while until the picture comes back.

Other Information

Specifications

Projection System	3 LCD Panels, 1 lens projection system	
LCD Panel	0.73 inch TFT LCD panel (1,280 × 720 pixels)	
Projection Lens	High Performance, large diameter hybrid lens F2.4	
Antenna	75-ohm external terminal for VHF/UHF	
Lamp	100W, XL-2400	
Television System	NTSC American TV Standard	
	ATSC (8VSB terrestrial)	ATSC compliant 8VSB
	QAM on cable	ANSI/SCTE 07 2000
Visible Screen Size (Picture measured	KDF-E42A10: 42 inches	
diagonally)	KDF-E50A10: 50 inches	
Channel Coverage	Terrestrial (analog)	2-69
	Cable TV (analog)	1-125
	Terrestrial (digital)	2-69
	Cable TV (digital)	1-135
Number of Inputs/Outputs		
HDMI IN	Video	1080i, 720p, 480p, 480i
	Audio	Two channel linear PCM 32, 44.1 and 48 kHz,
		16, 20 and 24 bit
Video (IN)	3 total (1 on side panel)	1 Vp-p, 75 ohms unbalanced, sync negative
S Video (IN)	1	Y: 1 Vp-p, 75 ohms unbalanced, sync
		negative
		C: 0.286 Vp-p (Burst signal), 75 ohms
Audio (IN)	5 total (1 on side panel)	500 mVrms (100% modulation)
		Impedance: 47 kilohms
Component Video Input	2 (Y P _B /C _B P _R /C _R)	Y: 1 Vp-p, 75 ohms unbalanced, sync negative
		P _B /C _B : 0.7 Vp-p, 75 ohms
		Pr/Cr: 0.7 Vp-p, 75 ohms
AUDIO (VAR/FIX) OUT	1	500 mVrms at the maximum volume setting (Variable)
		500 mVrms (Fixed)
		Impedance (output): 2 kilohms AUDIO OUT jacks are operable only when the TV's Speaker is set to Off.
RF Inputs	2	
PC Input	1	
Digital Audio Optical Output (PCM/Dolby Digital)	1	Optical Rectangular (1)
CableCARD Slot	PCMCIA Type I/II	
Speaker output	12 W + 12 W	
Power requirement	120 V, 60 Hz	
Power consumption	In use: 210 W	
1	In standby: Less than 17 W	

Dimensions (W/H/D)	KDF-E42A10: $999 \times 722 \times 357 \text{ mm} (39^{-3}/8 \times 28^{-1}/2 \times 14^{-1}/8 \text{ inches})$ KDF-E50A10: $1184 \times 827 \times 408 \text{ mm} (46^{-5}/8 \times 32^{-5}/8 \times 16^{-1}/8 \text{ inches})$
Mass	KDF-E42A10: 28 kg (61 lb. 12 oz.)
	KDF-E50A10: 33 kg (72 lb. 13 oz.)
Supplied Accessories	
Remote Control	RM-YD003
AA (R6) Batteries	2 supplied for remote control
Operating Instructions	1
Quick Setup Guide	1
Warranty Card	1
Product Registration Card	1

Optional accessories:

- □ HDMI cable
- ☐ HDMI-to-DVI cable
- ☐ Component video cable
- □ S VIDEO cable
- □ A/V cable
- ☐ Audio cable
- Optical cable
- □ TV Stand : (SU-RG11S for KDF-E42A10, SU-RG11M for KDF-E50A10)
- ☐ Theatre Stand System: RHT-G2000
- □ Lamp: XL-2400

The availability of optional accessories depends on stock.

Design and specifications are subject to change without notice.

Non-metric weights and measures are approximate.

Index

0-9 buttons 444:3 Default 705.1 Channel DVD using with remote control 50	Camcorder connection 41 Caption Vision 78 programming 80 Change Password 75	E Effect 66, 68 English Rating 77
A A/V Sync 67	CHANNEL +/- button 15 Channel settings 62, 72 Channel Show/Hide 72	ENT button 44 External Inputs, WEGA GATE 56, 59
About Using CableCARD Device 30 AC IN 18 Adding channels to the channel list 72 Adjusting audio, Steady Sound 66 Advanced Iris 63	Channels Auto Program 72 creating labels 73 CineMotion 9, 80 Clear White 65 Clock/Timers 83 Closed caption modes 78 Color Temp., adjusting 64, 65	Favorite Channels setting up 72 Favorites, WEGA GATE 56, 57 FREEZE button 45, 54 French Rating 77 FUNCTION button 44
Advanced Video 65 Alternate Audio 52 Alternate Video 52 ANT button 44 Applications Settings 62, 83 Audio Out 67, 68	Color, adjusting 63 Connecting Audio receiver 42 Cable box 23–24 Camcorder 41 DVD player 38–39 Personal Computer 40	Game Picture 69 Gamma 65 GUIDE button 51 Guide menu 52
AUDIO OUT jack, described 18 Audio receiver, connecting 42 Audio settings 61, 66	Satellite receiver 25 VCR 34–37	H HD/DVD IN jack (1080i/720p/ 480p/ 480i), described 16, 18
Auto Adjustment 71 Auto Program 72	Diagnostics 84 DIGITAL AUDIO (OPTICAL) OUT 18	HDMI IN jack, described 17 High Altitude 80, 81 High-Definition Multimedia Interface (HDMI) 10
Balance, adjusting 66, 68 Bass, adjusting 66, 68 Batteries, inserting in remote 43	Digital Channels 72 Digital subchannels 52 Display Area 70 DISPLAY button 45	Horizontal Center 71 Hue, adjusting 63
BBE 66 Brightness, adjusting 63, 65	Display Mode 65 Display, turning off 45 DRC Mode 64	Image Shift 79 Infrared Receiver (IR) 15
Cable connecting with VCR 34	DRC Palette 64 DVD player using with remote control 49	Inputs, labeling 79 Iris 63, 65
using with remote control 49 Cable Box connecting with VCR 35 CableCARD device 30, 84	with A/V connectors, connecting 39 with component video connectors, connecting 38	J, K JUMP 54 JUMP button 44

CableCARD slot 17

L R Turning on/off the TV 15 TV FUNCTION button 44 Label Ratings TV POWER button 45 Channels 73 setting 76 Label Video Inputs 79 viewing blocked programs 75 TV Rating 76 Remote control LAMP LED 15 TV/VIDEO button 15, 44 inserting batteries 43 Lamp, replacing 86–89 U.S.A. Rating 77 programming 47–48 Language 79, 81 Unrated 76 Removing channels from the Live Color 65 channel list 72 Removing the CableCARD 31 М **VCR** Reset 63, 65, 66, 68 MENU button 45, 49 using with remote control 49 with cable box, connecting 35 Menu Color 79, 81 S with cable, connecting 34 Movie Rating 76 S VIDEO jack, described 18 Vertical Center 70, 71 **MTS 67** Satellite receiver Vertical Size 70 **MUTING** button 44 VHF/UHF jack, described 17 connecting 25 Satellite receiver, using with Video 2 (Component) 79 Ν remote control 49 Video inputs, labeling 79 Noise Reduction 64 Screen settings 61, 69 Video settings 61, 63 Select Country 75 VIDEO/AUDIO (L/R) jacks, 0 Settings described 16, 18 Off, turning off the TV 15 Applications 62, 83 VISUAL SEARCH 45 On, turning on the TV 15 Audio 61, 66 VOL +/- button 45 Channel 62, 72 VOLUME +/- button 15 P, Q Parental Lock 62, 74 Volume Offset 66 Screen 61, 69 Parental Control, described 9 Setup 62, 78 Parental Lock settings 62, 74 Video 61, 63 **W**, **X**, **Y** Password, changing 75 Settings, WEGA GATE 56, 59 WEGA GATE 9. 55 PC IN jack 17 Setup settings 62, 78 WEGA GATE button 15 PC Input 65, 68, 71, 81 Sharpness, adjusting 64 Wide Mode 69, 71 Personal Computer Show/Hide Channels 72 Wide Screen Mode, described 9 connecting 40 Sound Mode 66, 68 Phase 71 Speaker 15, 67, 68 Picture **63**, **65** Specifications 94–95 PICTURE button 44 Steady Sound Picture Mode adjusting 66 Custom 63 described 10 Standard 63 Support Belt 14 Vivid 63 Surround sound 66, 68 Pitch 71 POWER button 15 T, U Power Management 81 Timer **POWER/STANDBY LED 15** set current 84 Problems, Troubleshooting 90-TIMER indicator 12 93 TIMER LED 15 Program Guide 52 Timer setting 83 Program Options menu 52

Treble, adjusting 66, 68 Troubleshooting 90–93



http://www.sony.net/

Printed in U.S.A.