HISTORY

Model Name: KDF-E42A10/E50A10

SERVICE MANUAL

Part No. : 9-872-749-02

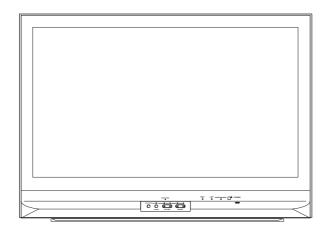
When clicking an item, it's detail is displayed.

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



SERVICE MANUAL MIX5 CHASSIS

<u>MODEL</u>	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 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		
S video (ii v)	•	negative		
		C: 0.286 Vp-p (Burst signal), 75 ohms		
Audio (IN)	5 total (1 on side panel)	500 mVrms (100% modulation)		
	1,	Impedance: 47 kilohms		
Component Video Input	2 (Y PB/CB PR/CR)	Y: 1 Vp-p, 75 ohms unbalanced, sync		
	,	negative		
		Рв/Св: 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		
DEL	2	TV's Speaker is set to 0 ff.		
RF Inputs	2			
PC Input	1	0 (10 ()		
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			
	In standby: Less than 17 W			

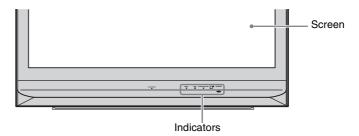
Dimensions (W/H/D)	KDF-E42A10: 999 · 722 · 357 mm (39 ³ / ₈ · 28 ¹ / ₂ · 14 ¹ / ₈ inches) KDF-E50A10: 118 4 · 827 · 408 mm (46 ⁵ / ₈ · 32 ⁵ / ₈ · 16 ¹ / ₈ inches)
Mass	KDF-E42A10: 28 kg (61 lb. 12 oz.) KDF-E50A10: 33 kg (72 lb. 13 oz.)
Supplied Accessories	
Remote Control	RM-YD003
AA (R6) Batteries	2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

Opti	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
Ė	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	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).
- In 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).

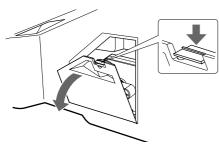
/ WARNING Electric appliances can cause fire or high temperature, resulting in injury or death. Be sure to follow the instructions below. Use a Sony XL-2400 replacement lamp (not supplied) for replacement. Use of any other lamp may damage the TV. Do not remove the lamp for any purpose other than replacement. 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

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

shorten its life.

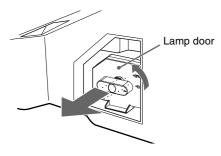
life.

4 Remove the outside lamp cover.



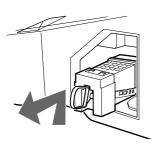
5 Remove the lamp door.

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



6 Pull out the lamp.

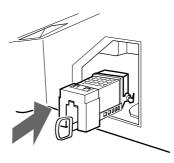
Hook a finger through the loop of the lamp handle and pull the handle upwards. Then pull the lamp straight out.



- In 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.
- 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.
- 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.

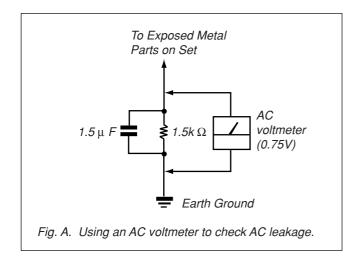
LEAKAGE TEST

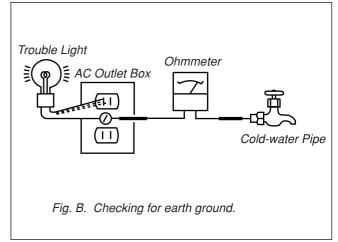
The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers). Leakage current can be measured by any one of three methods.

- 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!!

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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.

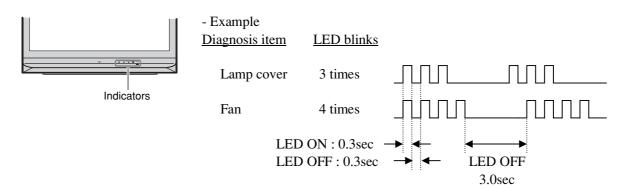
2. Diagnosis Items and Prediction of Malfunction Location

- 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	4 times	- Fan 1-4 power is not supplied. (AGU board) - Fan connector is not attached securely. -Fan caught wires or harnesses.	- No picture/No sound
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

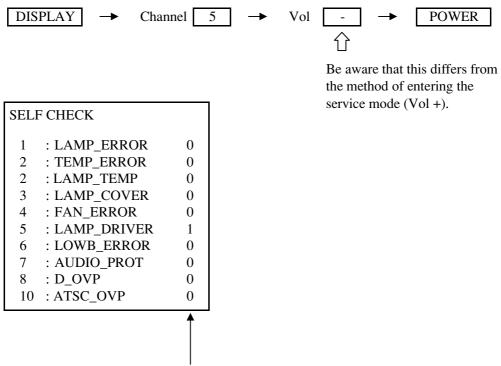
The POWER/STANDBY indicator blinking display is released by removing the plug from the power or leaving for 2 minutes.

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.

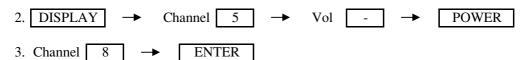


- Numeral "1" means a fault was detected one time
- Numeral "0" means that no fault was detected

- 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)



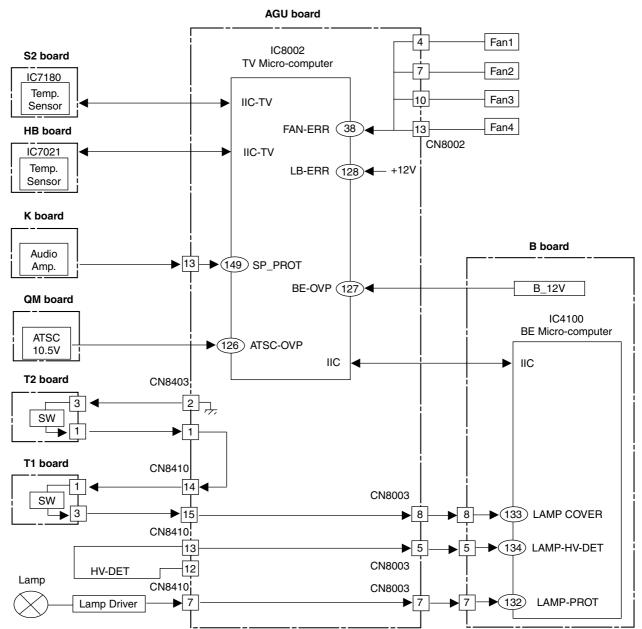
<Method of Ending Self-Diagnosis Screen>

- 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

5. Sen-Dia	gno	sis function operat	ION
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 " $Q_{10.5}$ 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



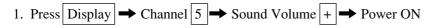
Reading Lamp and Panel time

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		SERVICE
CP18_COLOR_SYS	00	00A0	BE Micro
•	↓ F	Press Channe	el-4
GW_SPECIAL	34		SERVICE
LAMP_TIME	02	0000014	BE Micro
Press Channel-4			
GW_SPECIAL	34		SERVICE
PANEL_TIME	01	0000014	BE Micro
,	lacksquare	Press Channe Channel-1	el-5 7 times,
OPTION_E	20		SERVICE
LAMP	01	0000	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".

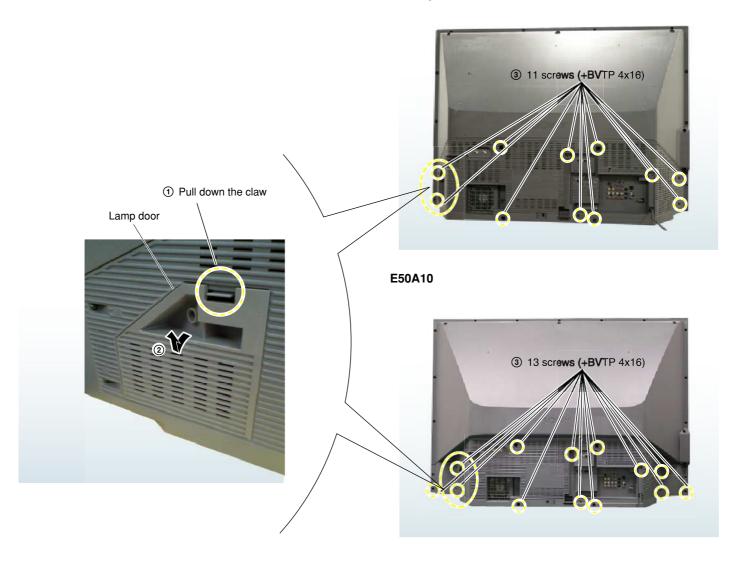
Exiting Service Mode

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

SECTION 2 DISASSEMBLY

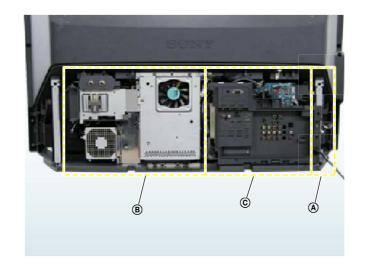
2-1. REAR COVER

E42A10

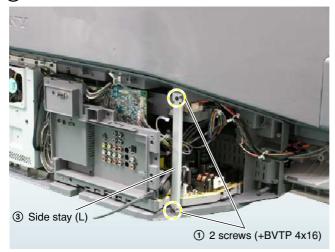




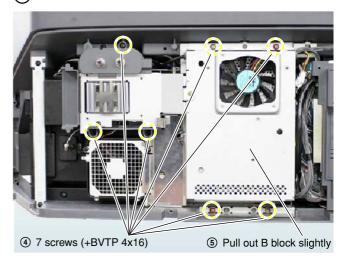
2-2. SERVICE POSITION



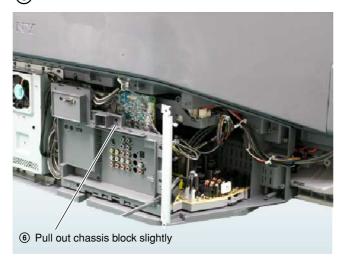


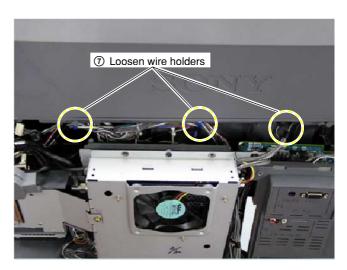


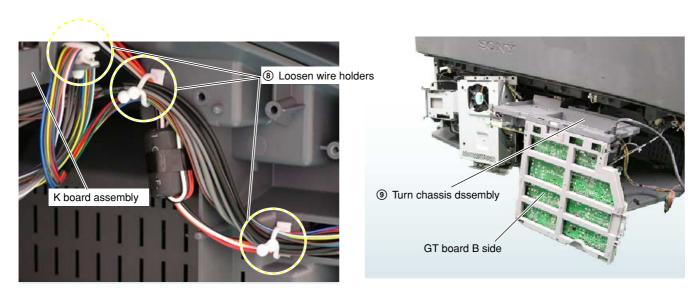




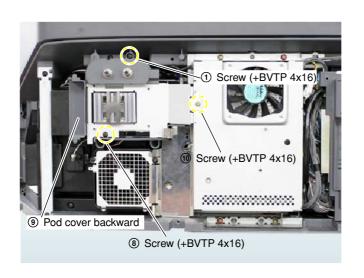
©

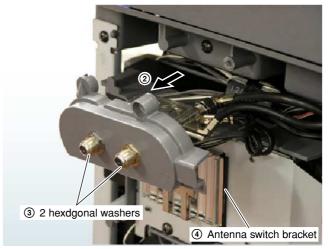


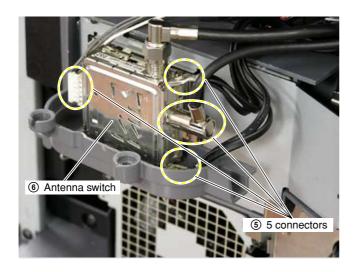


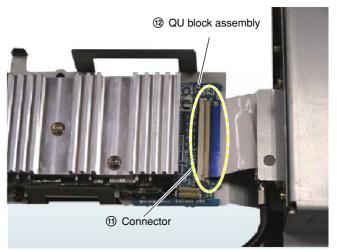


2-3. ANTENNA SWITCH, QU BLOCK ASSEMBLY

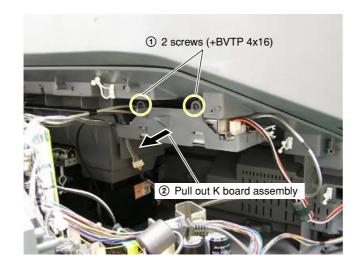


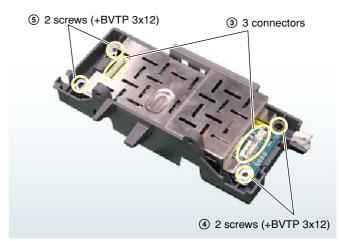


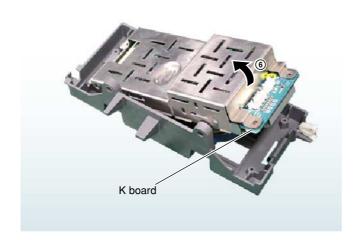




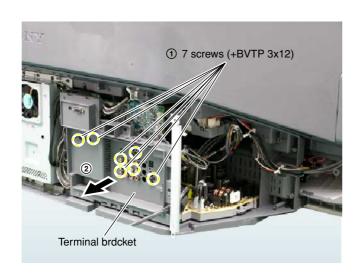
2-4. K BOARD



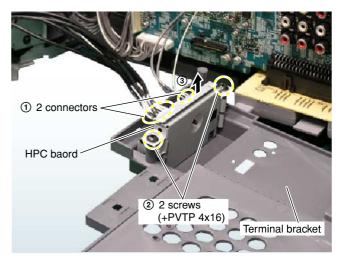




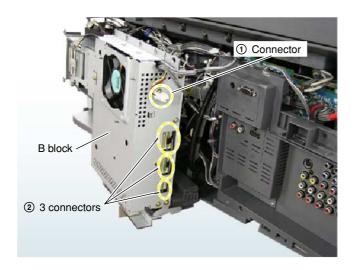
2-5. TERMINAL BRACKET

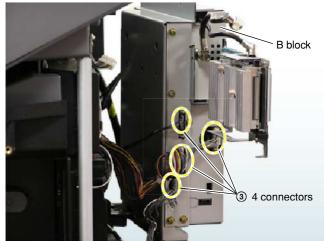


2-6. HPC BOARD

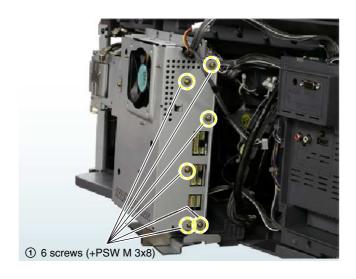


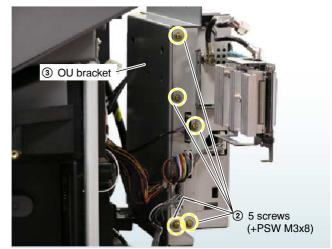
2-7. B BLOCK



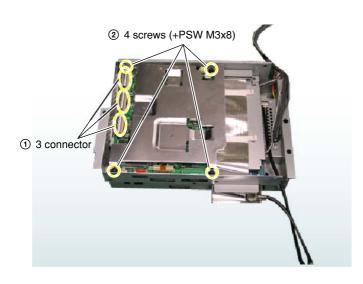


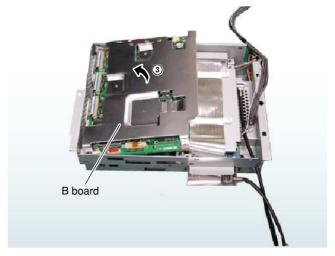
2-8. OU BRACKET



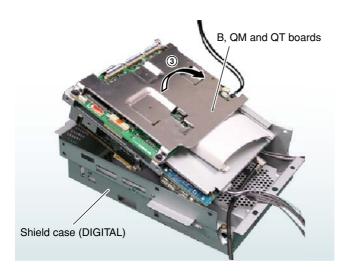


2-9. B BOARD

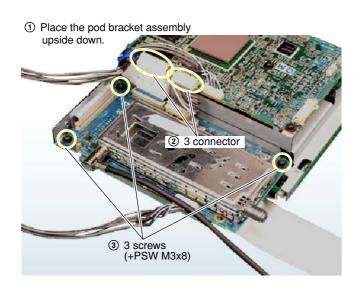


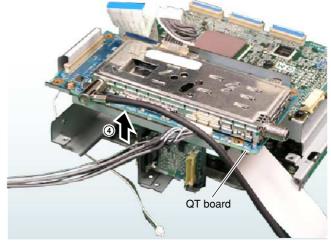


2-10. B, QM AND QT BOARDS

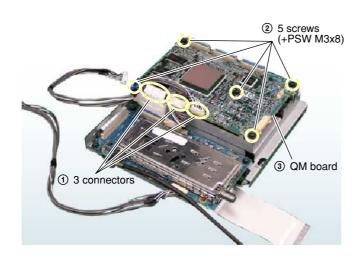


2-11. QT BOARD

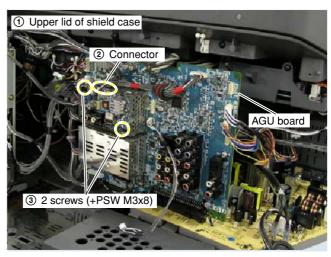




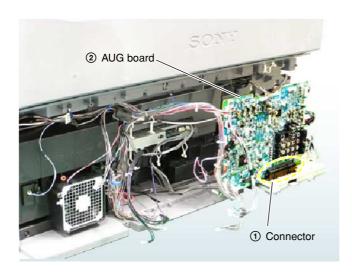
2-12. QM BOARD



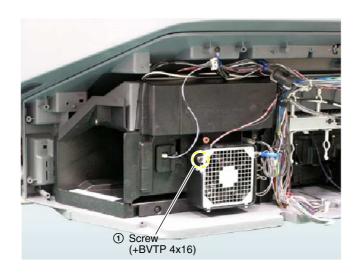
2-13. P BOARD

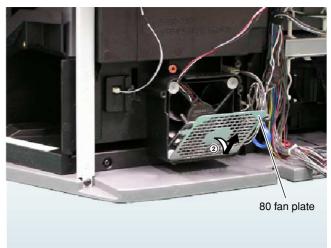


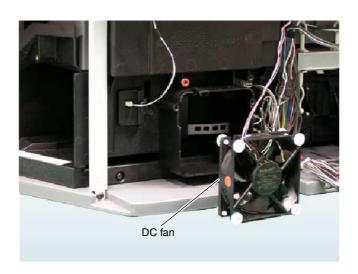
2-14. AGU BOARD



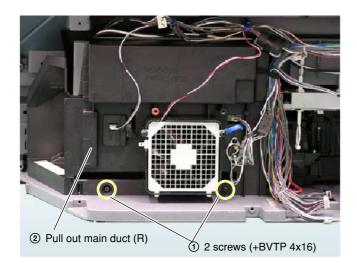
2-15. DC FAN



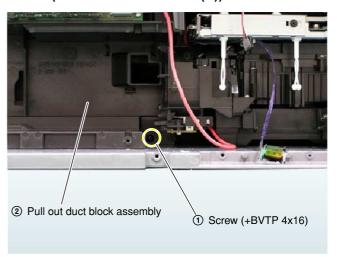




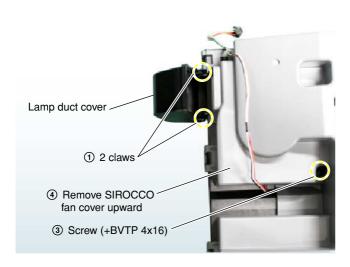
2-16. MAIN DUCT (R)



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

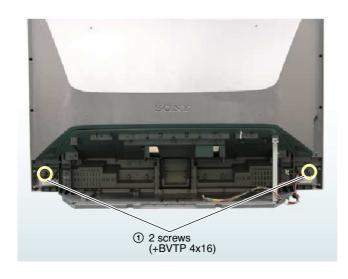


2-18. D.C. FAN (SIROCCO)



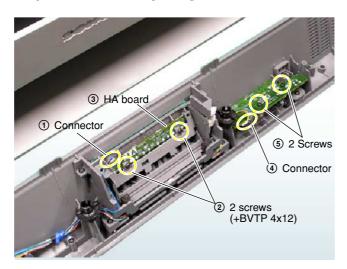


2-19. SPEAKER GRILL BLOCK ASSEMBLY

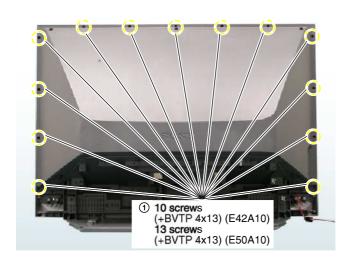


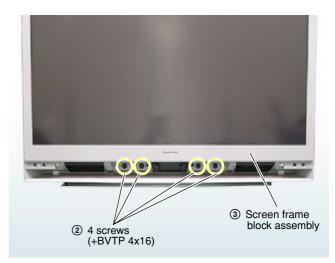


2-20. HA AND HB BOARDS

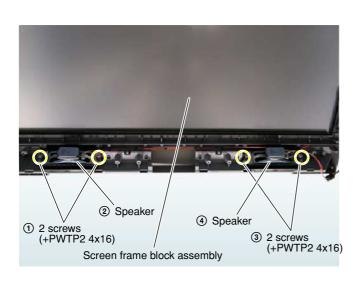


2-21. SCREEN FRAME BLOCK ASSEMBLY

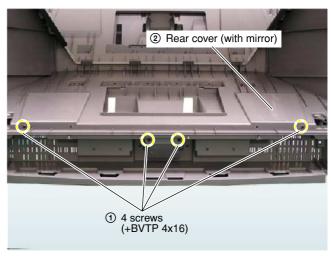




2-22. SPEAKERS



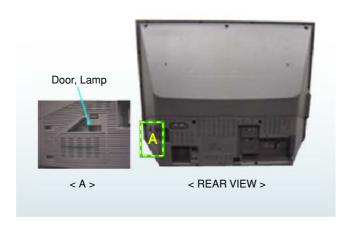
2-23. REAR COVER (WITH MIRROR)



2-24. HOW TO REPLACE OPTICS UNIT

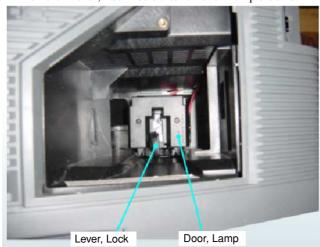
2-24-1. Remove Lamp Block (1)

Remove " Door, Lamp ".



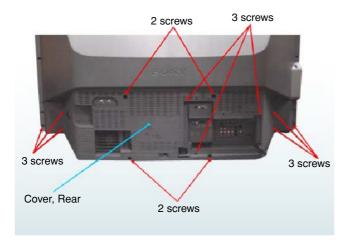
2-24-3. Remove Lamp Block (3)

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



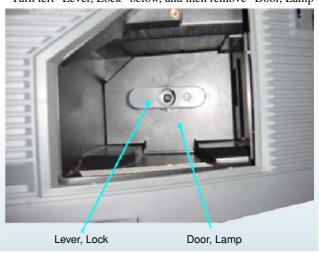
2-24-5. Remove Cover, Rear (1-2)

Take off 13 screws (50").



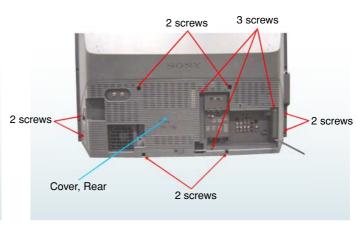
2-24-2. Remove Lamp Block (2)

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".



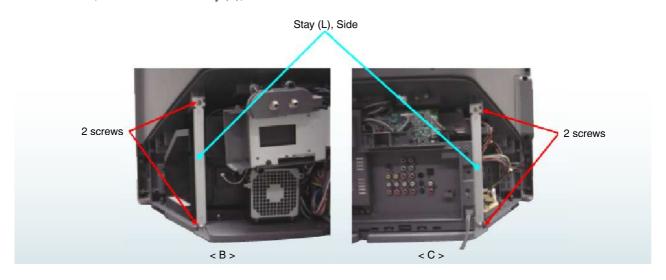
2-24-6. Remove Cover, Rear (2)

It is removed "Cover, Rear".



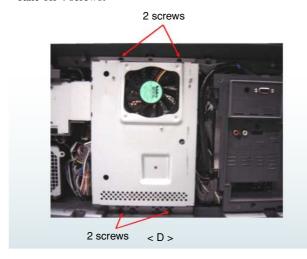
2-24-7. Remove Stay (L), Side

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



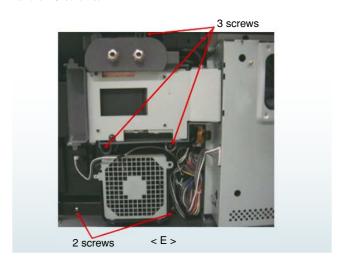
2-24-8. Pull Out Some Blocks (1)

Take off 4 screws.



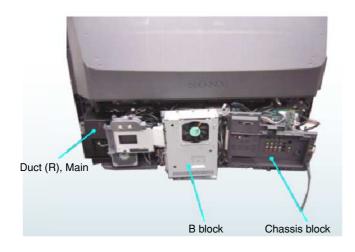
2-24-9. Pull Out Some Blocks (2)

Take off 5 screws.



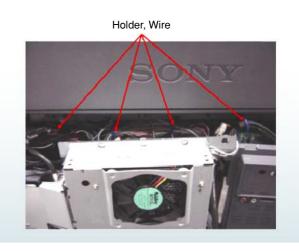
2-24-10. Pull Out Some Blocks (3)

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



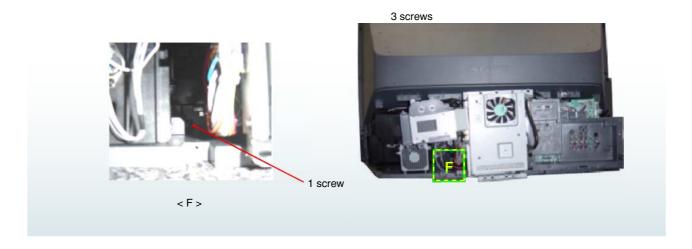
2-24-11. Pull Out Some Blocks (4)

Unlock "Holder, Wire" as shown below.



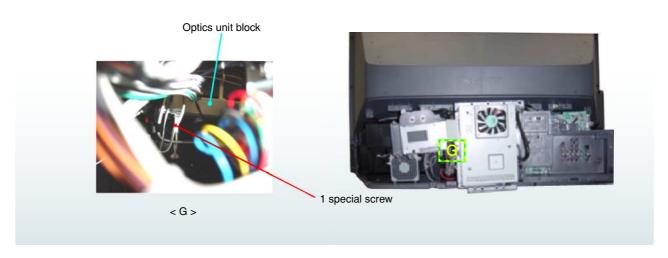
2-24-12. Pull Out Some Blocks (5)

Take off 1 screw.



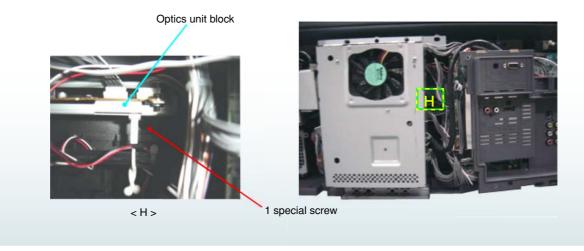
2-24-13. Pull Out Some Blocks (6)

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



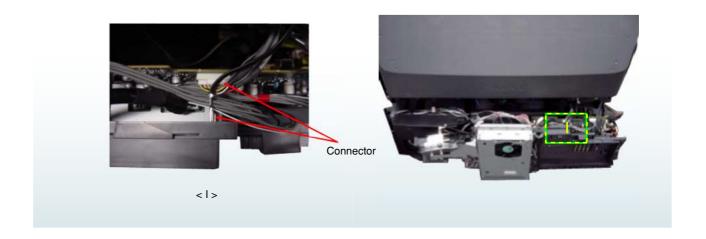
2-24-14. Pull Out Some Blocks (7)

Take off 1 screw.



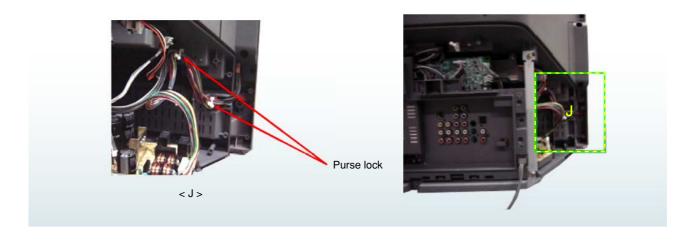
2-24-15. Pull Out Some Blocks (8)

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.

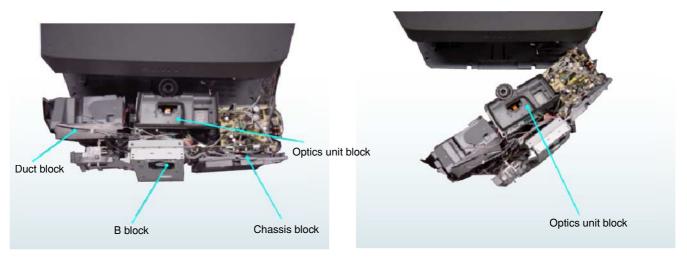


2-24-17. Pull Out Some Blocks (10)

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.

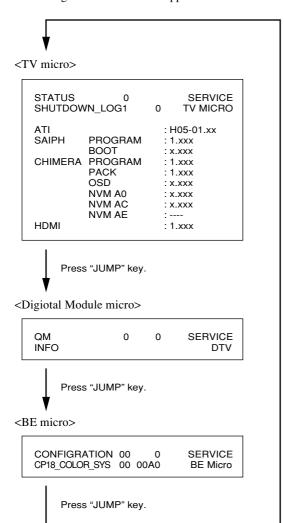
- 1. Pattern Generator (with component outputs)
- 2. Oscilloscope
- 3. Digital multimeter

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

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

(Press each button 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.

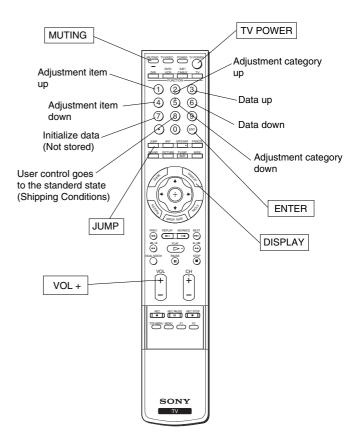
<Method of setting the shipping condition>

- 1. Service Adjustment mode.
- 2. Press "8" then "ENTER"
- 3. Wait until appearing "Initial Setup" display.
- 4. 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

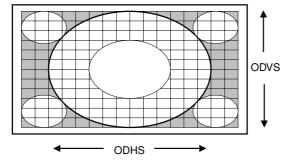
Button	Mode	Description
MUTING + ENTER	WRITE	Writes data to NVM.
0 + ENTER	READ	Reads data from NVM.
8 + ENTER	RESET	Set the shipping condition.

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

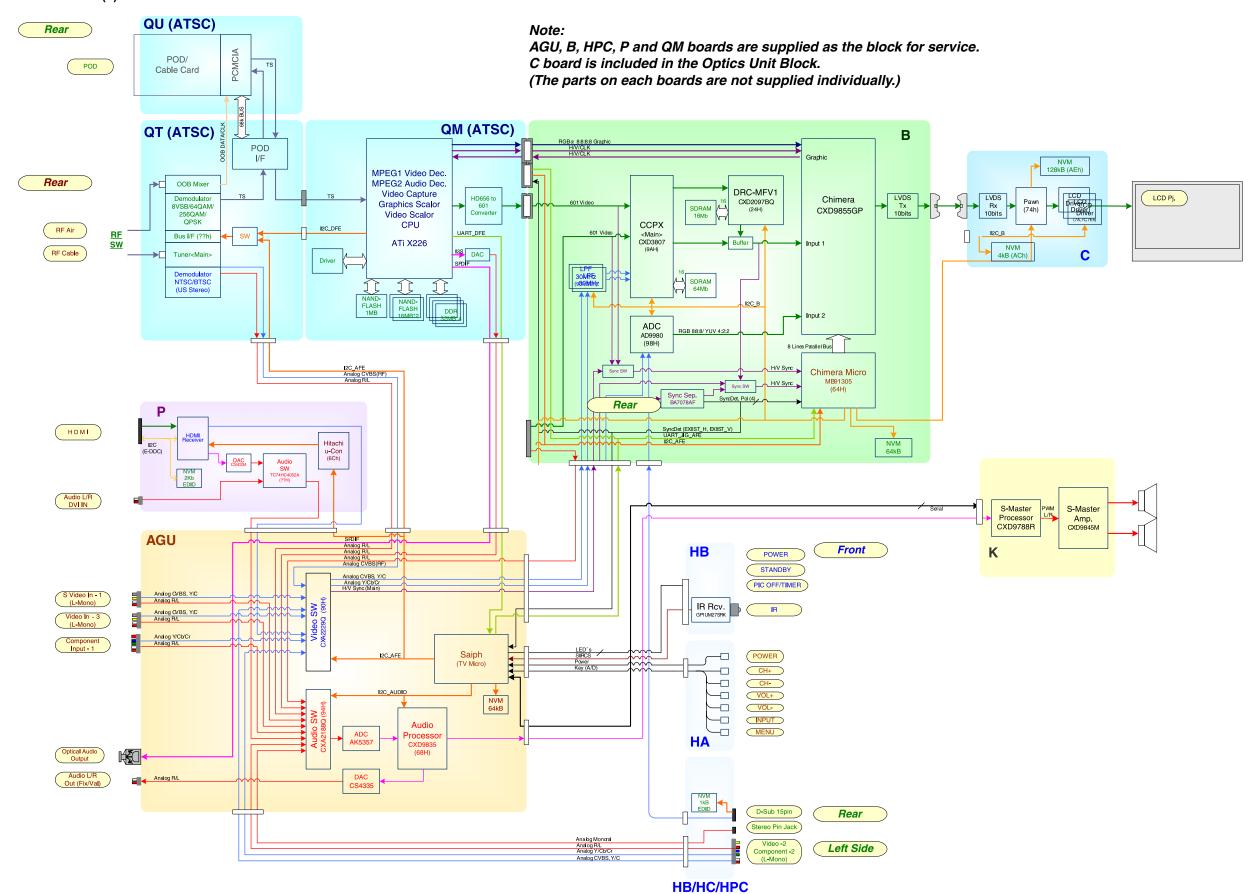
DBL_CTRL_AC	#0	BL_U_TOP
	#1	BL_U_BOTTOM
	#2	BL_MAX
	#3	BL_MIN
	#4	IRIS_GAIN
	#5	HALL_GAIN

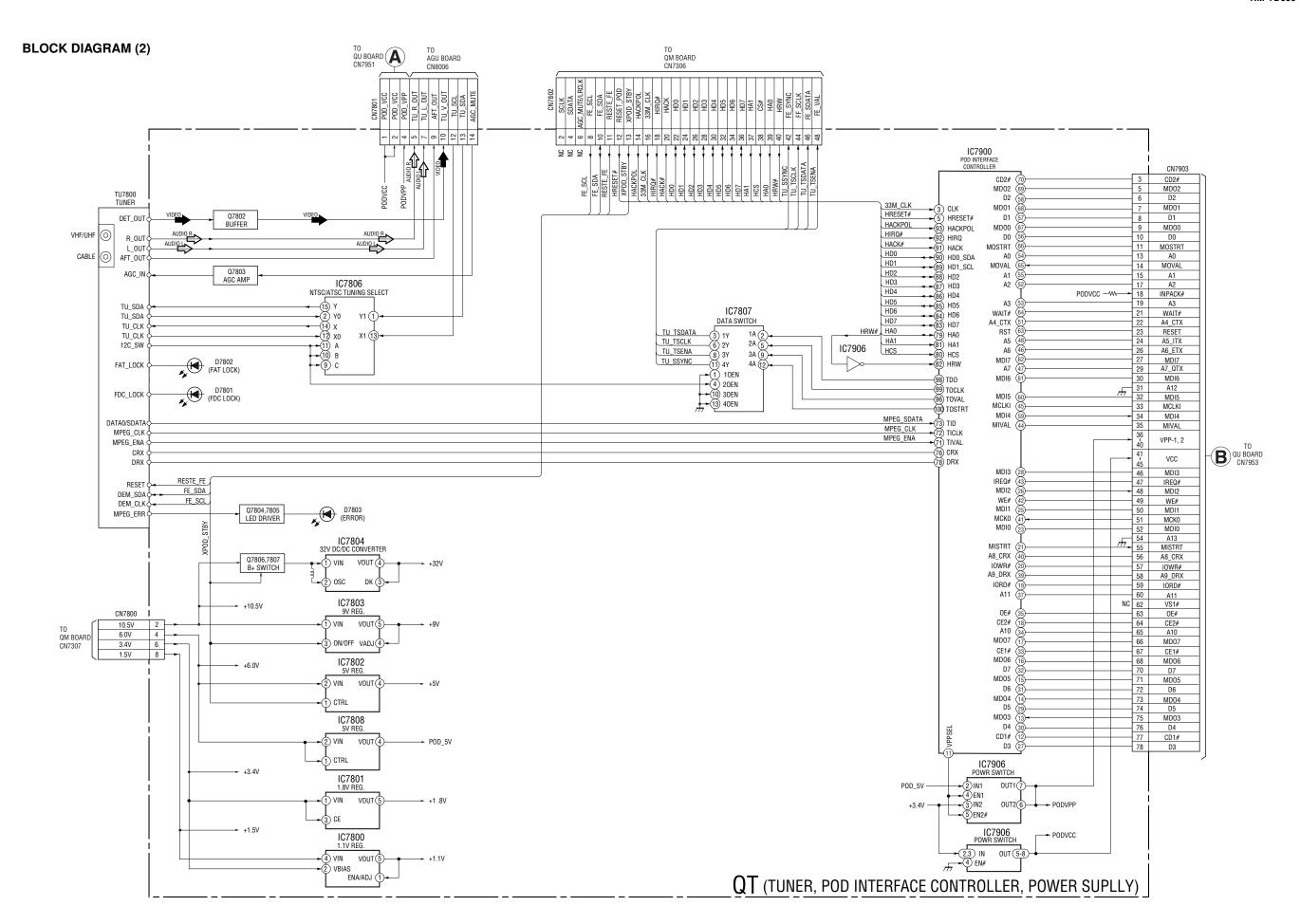
and write the same values on C board to the service data in NVM on B board.

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

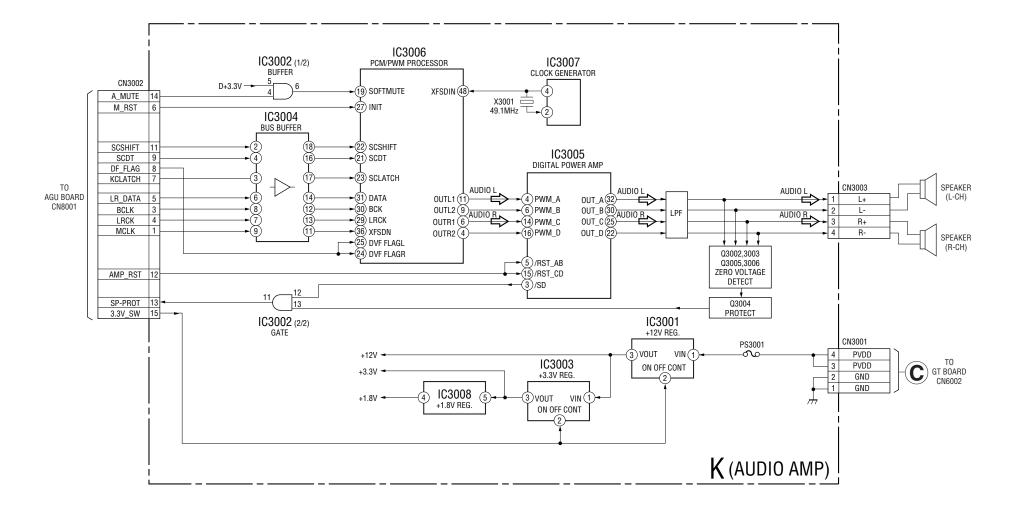
SECTION 4 DIAGRAMS

4-1. BLOCK DIAGRAM (1)

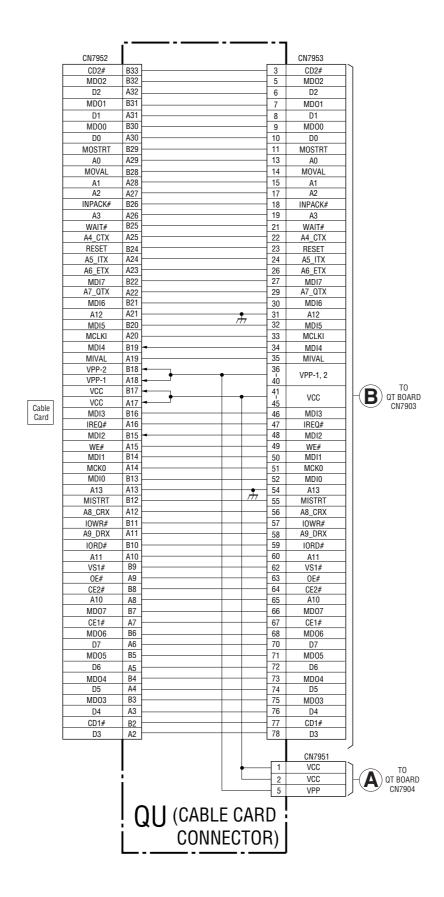




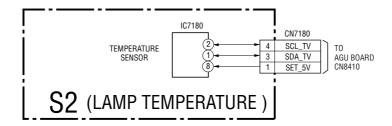
BLOCK DIAGRAM (3)

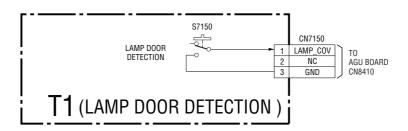


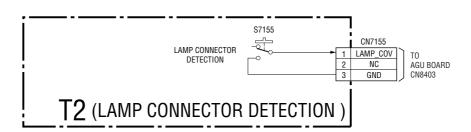
BLOCK DIAGRAM (4)



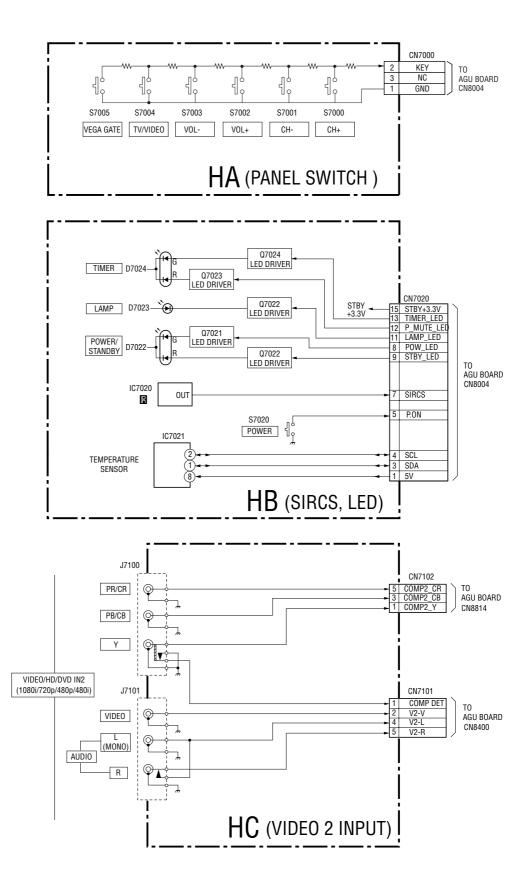
BLOCK DIAGRAM (5)



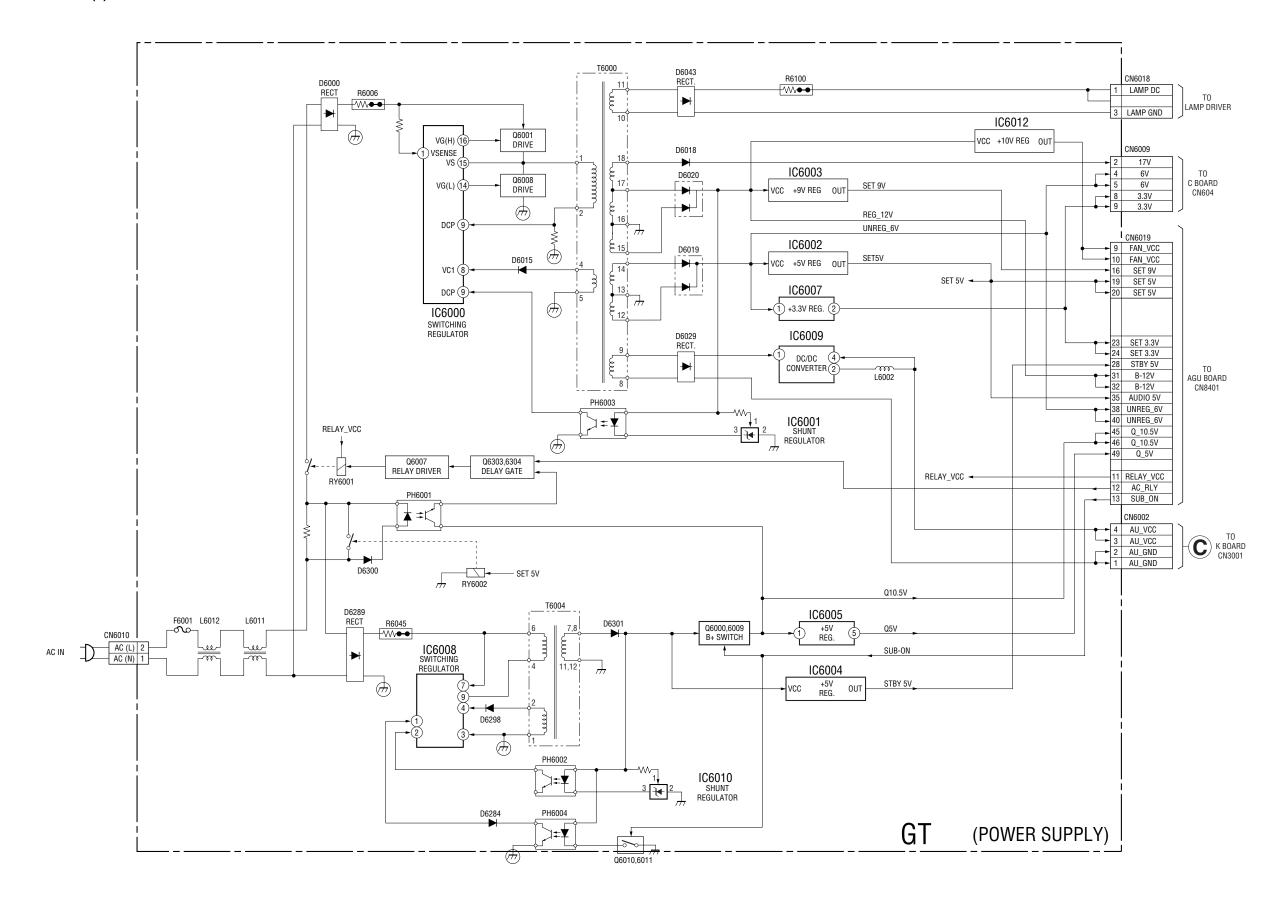




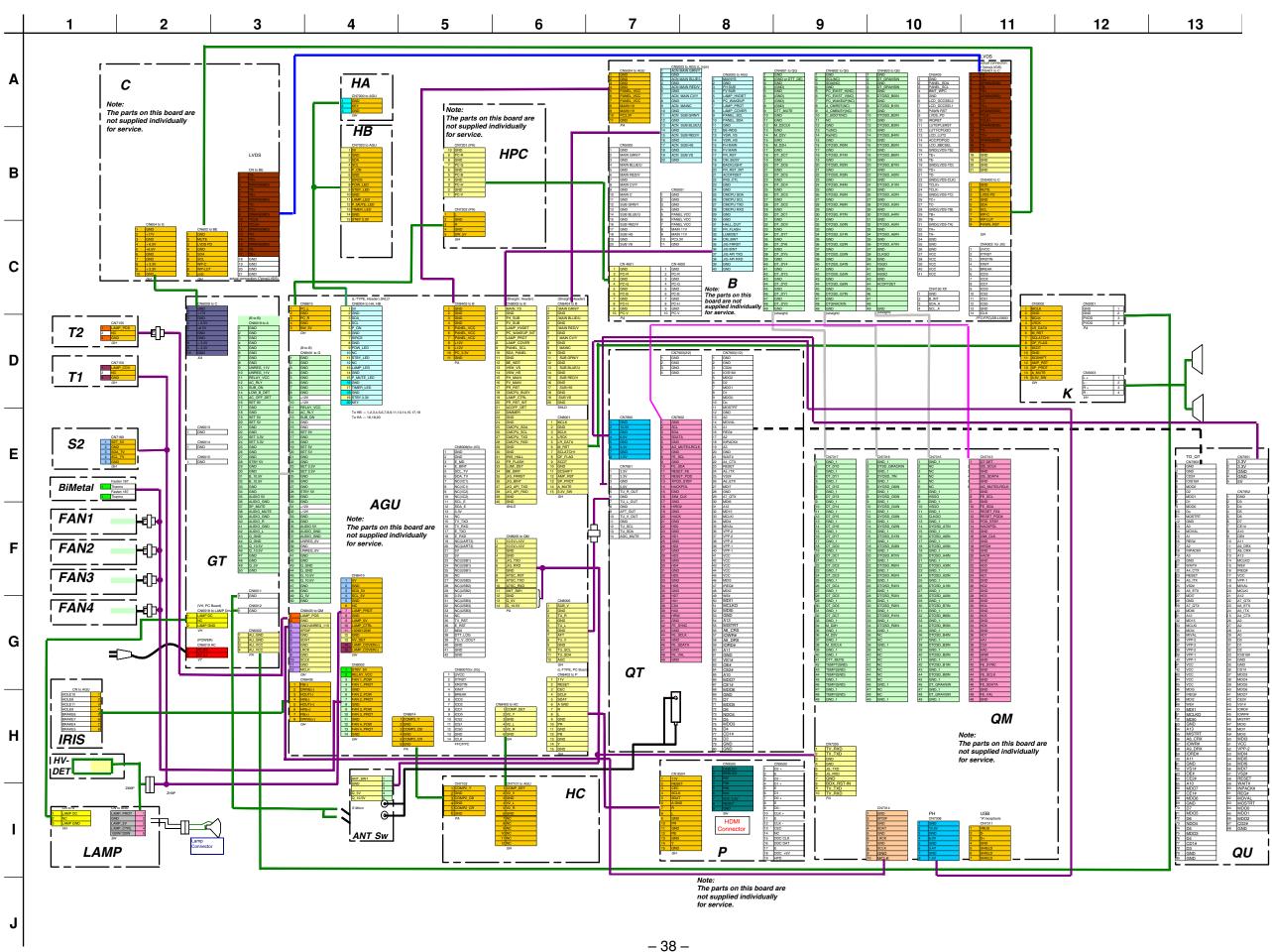
BLOCK DIAGRAM (6)



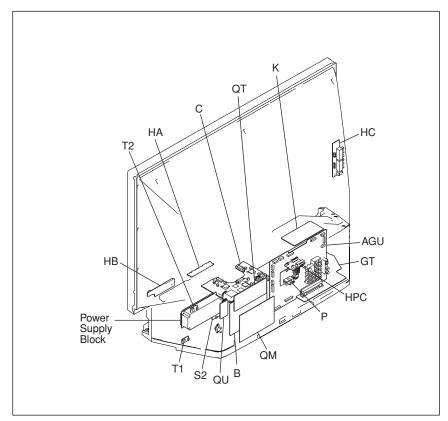
BLOCK DIAGRAM (7)



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.

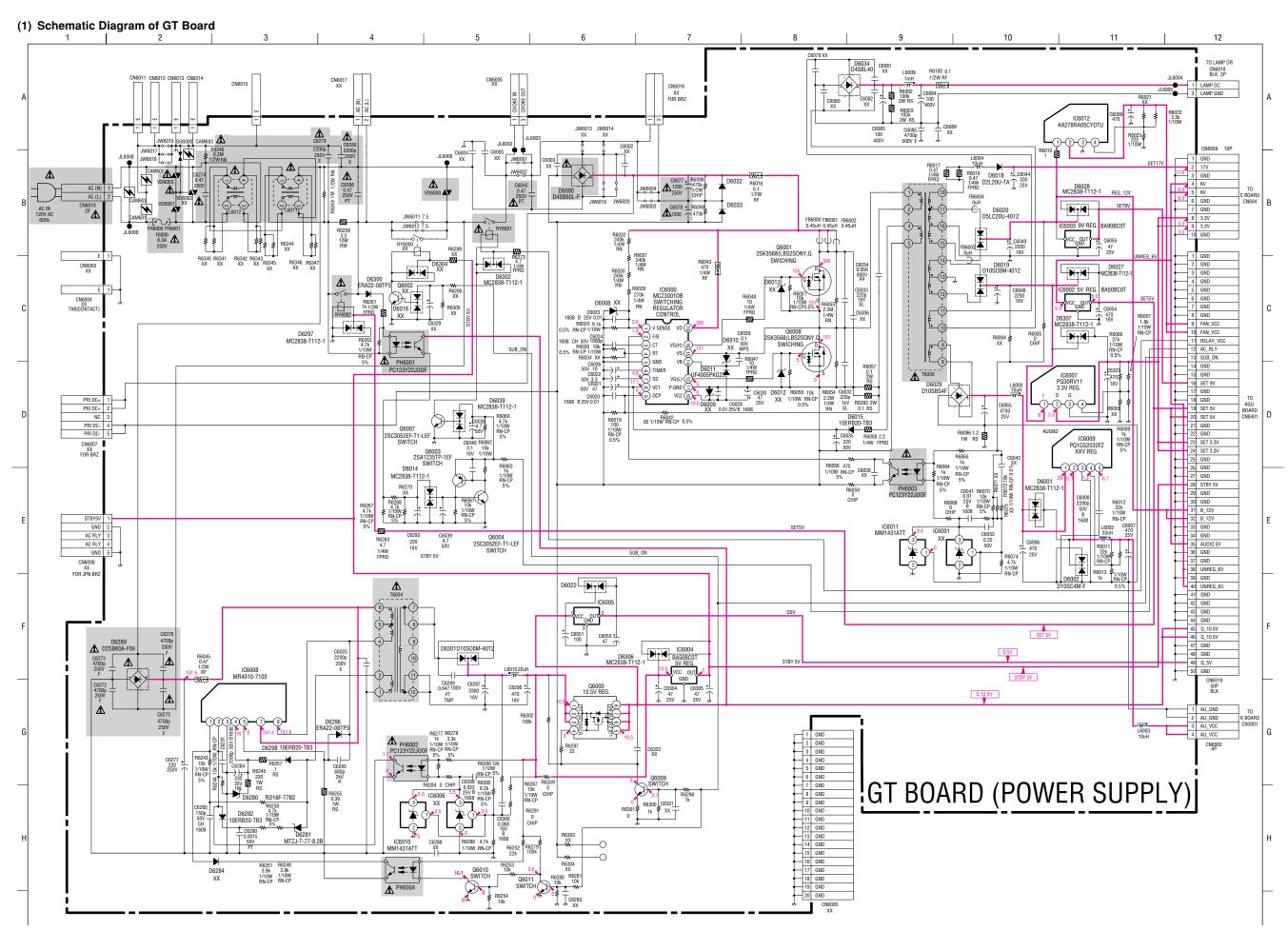
- Readings are taken with a 10 $\mbox{M}\Omega$ digital multimeter.
- · Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- * : Can not be measured.

Reference information

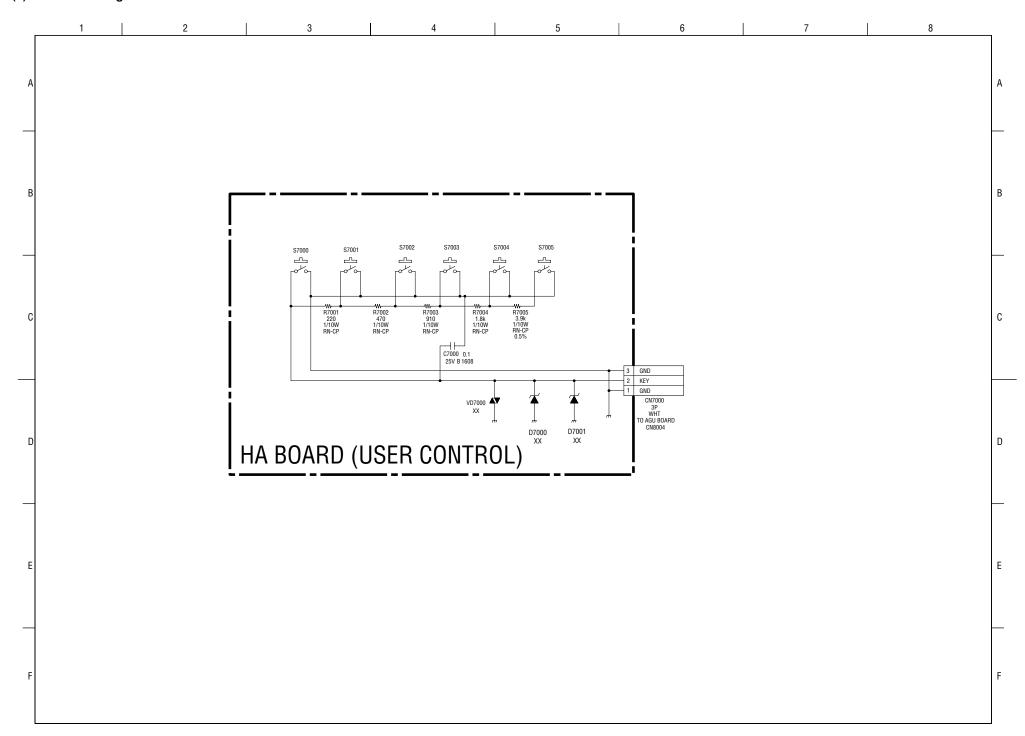
Reference in	formation	
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RW	NONFLAMMABLE WIREWOUND
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR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

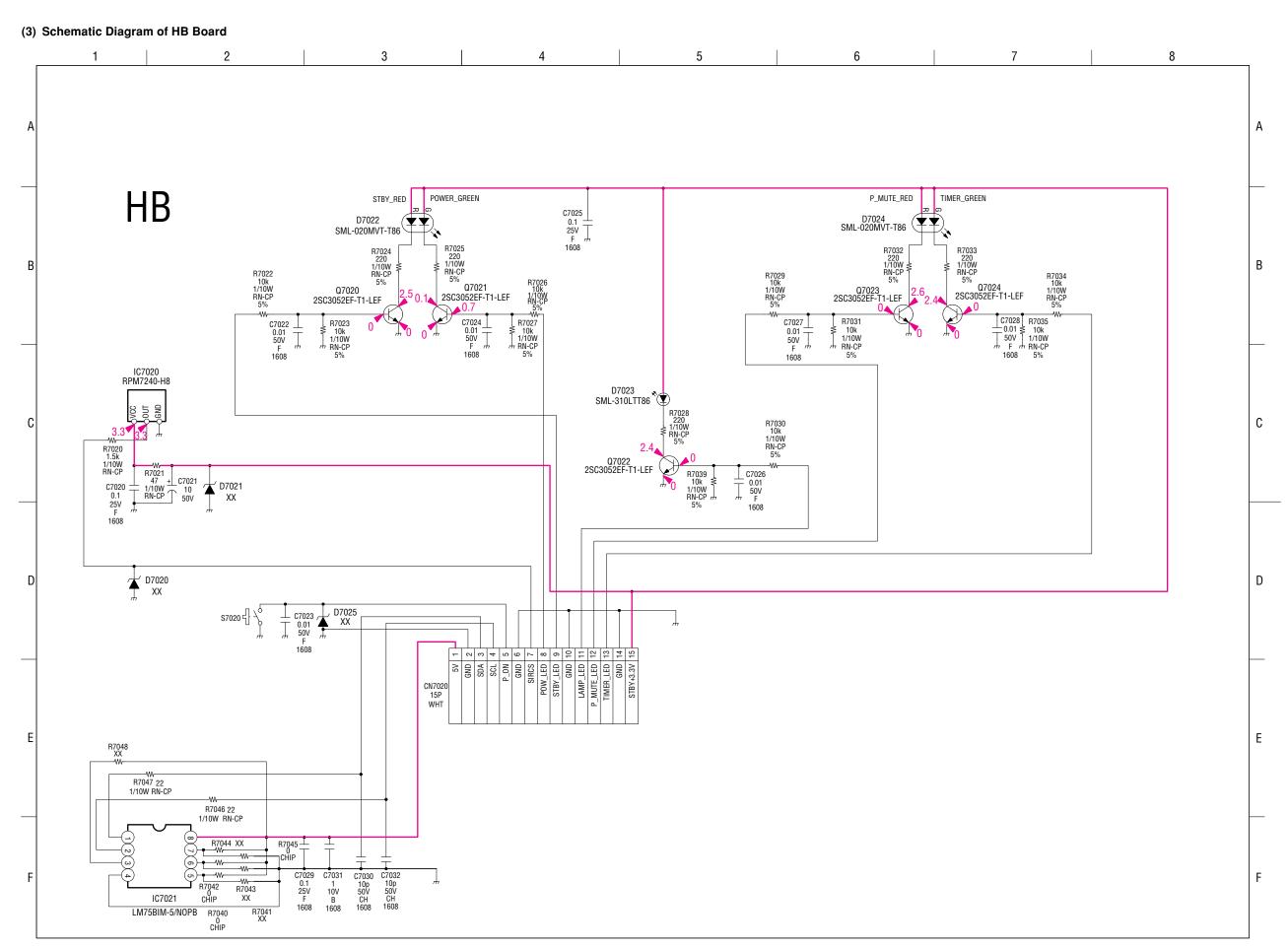
Terminal name of semiconductors in silk screen printed circuit (*)

	Device	Printed symbol	Terminal name	Circuit
	Tuonoistas		Collector	
①	Transistor		Base Emitter	~ ~
			Collector	
2	Transistor	_	Base Emitter	0 0 0
				φ
3	Diode		Cathode Anode	*
		1 1	Cathode	0
4	Diode			0
		_	Anode (NC)	*
(5)	Diode		Cathode	。 .
			Anode (NC)	
	Diada	_	Common	
6	Diode		Anode Cathode	P
			Common	Ţ ▶ ↓₩┐
7	Diode	_	Anode Cathode	0 0
		 _	Common	
8	Diode			0
		_		
9	Diode		Common	
			Anode Anode	
(10)	Diode	_	Common	
	21000		Cathode Cathode	
			Common	[<mark>⊿ ⋅ ▶</mark>]
(1)	Diode		Cathode Cathode	
		_	Anode ■ Cathode	• • •
12	Diode		Anode Anode Cathode Anode	
	Tunnelists		_	· •
13	Transistor (FET)		Drain Source Gate	во во
		-		
14)	Transistor (FET)	 -	Drain Source Gate	so so
				DQ DQ
1 5	Transistor		□ Source □ Drain	
	(FET)	_	■ ⊔ Gate	so so
(16)	Transistor		☐ Emitter☐ Collector☐ Base	
			■ □ Base	
(17)	Transistor		C2 B1 E1	B10-(10-062 B10-(10-062
	1101010101		E2 B2 C1	E10 0E2
_	Tunns!-+-		C1 B2 E2	
18	Transistor	TT	E1 B1 C2	C10 OC2
			C1 B2 E2	B10 B2
19	Transistor	_	E1 B1 C2	EIO OE2
				E1Q QE2
20	Transistor	_	C1 B2 E2 E1 B1 C2	B10
				C10 0 C2 C1(B2)Q QC2
21)	Transistor	_	E2 B1 E1	B10-(12-12)
			C2 C1(B2)	E20 0E2
22	Transistor		(B2) B1 E1 E2	E1(B2) Q OE2 B1 O (1)
4	71411313101		C1 C2	C10 OC2
	T	_	(B2) E2 E1 B1	E1(B2) O OC2
€	Transistor			B10-(-
23			C2 C1	C10 0C2
23		miconductot	C2 C1	C10 OC2

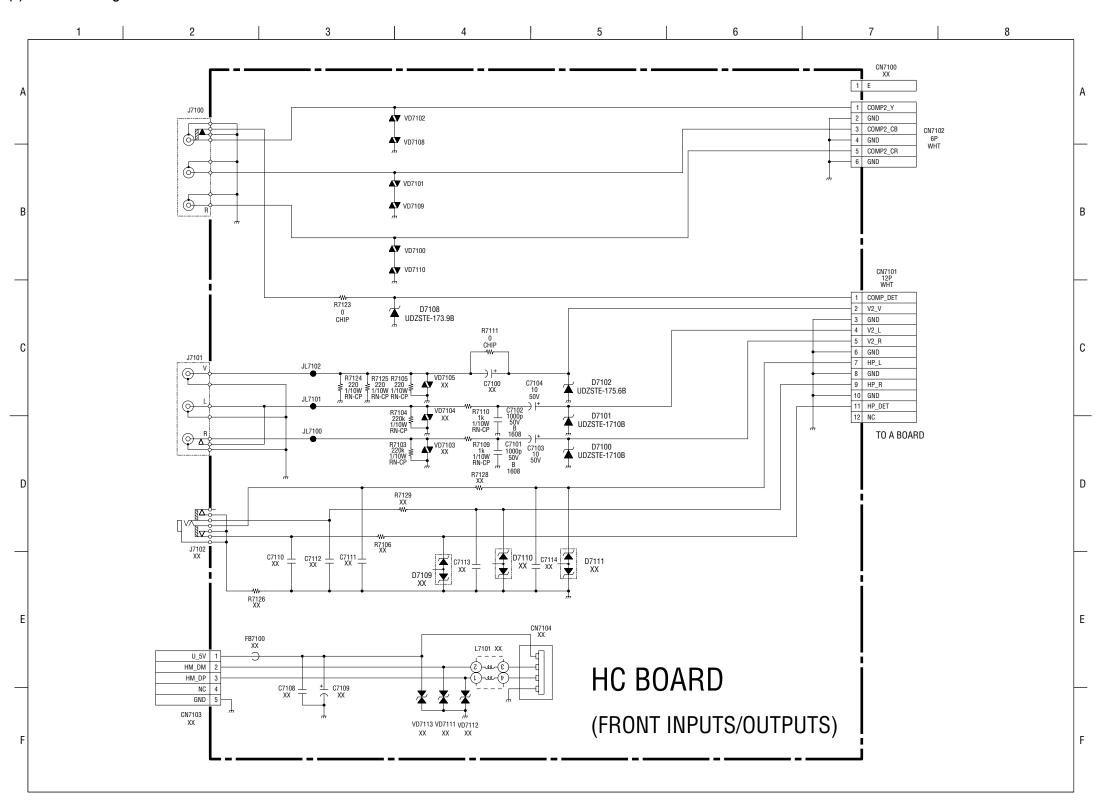


(2) Schematic Diagram of HA Board

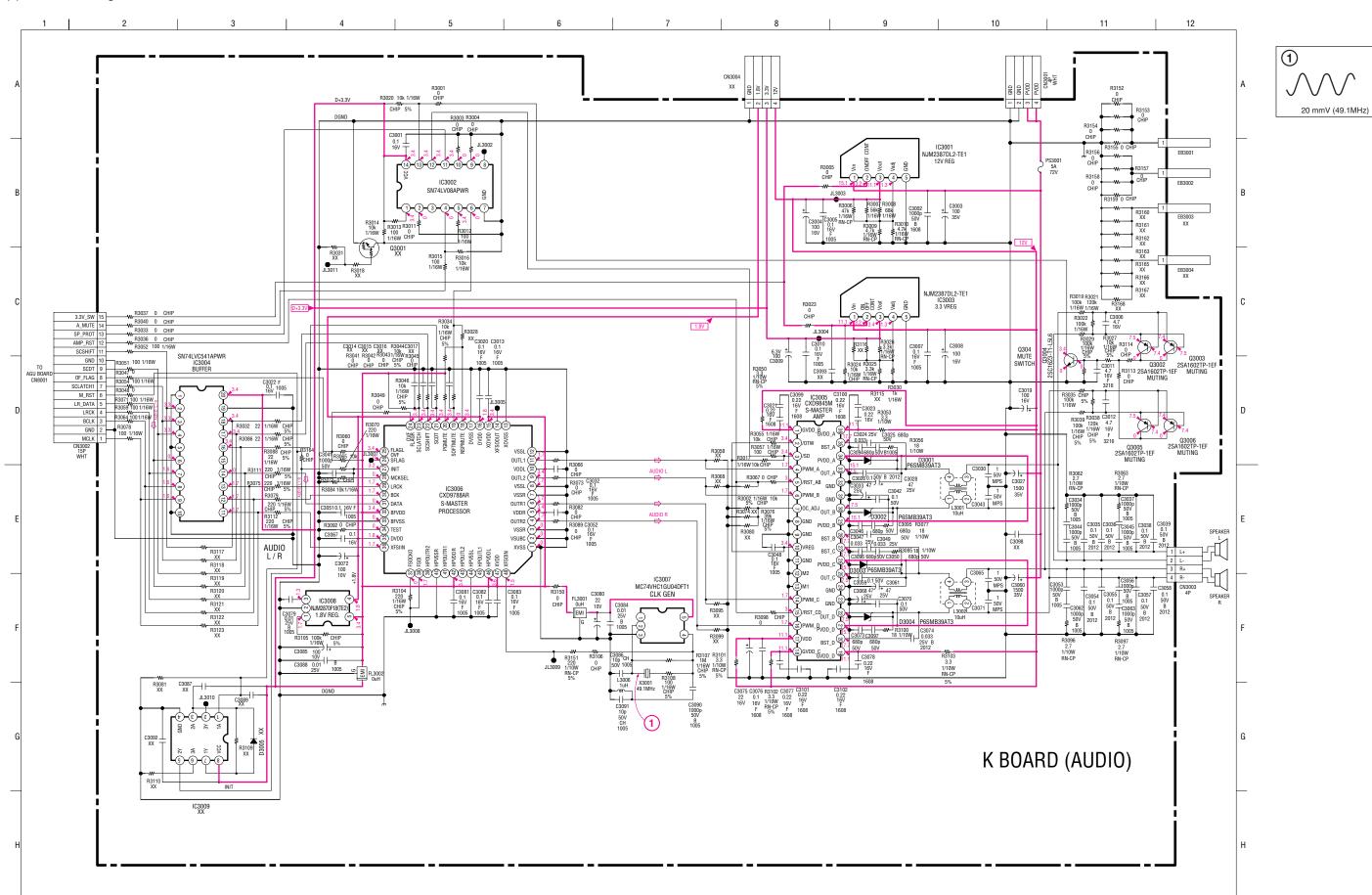




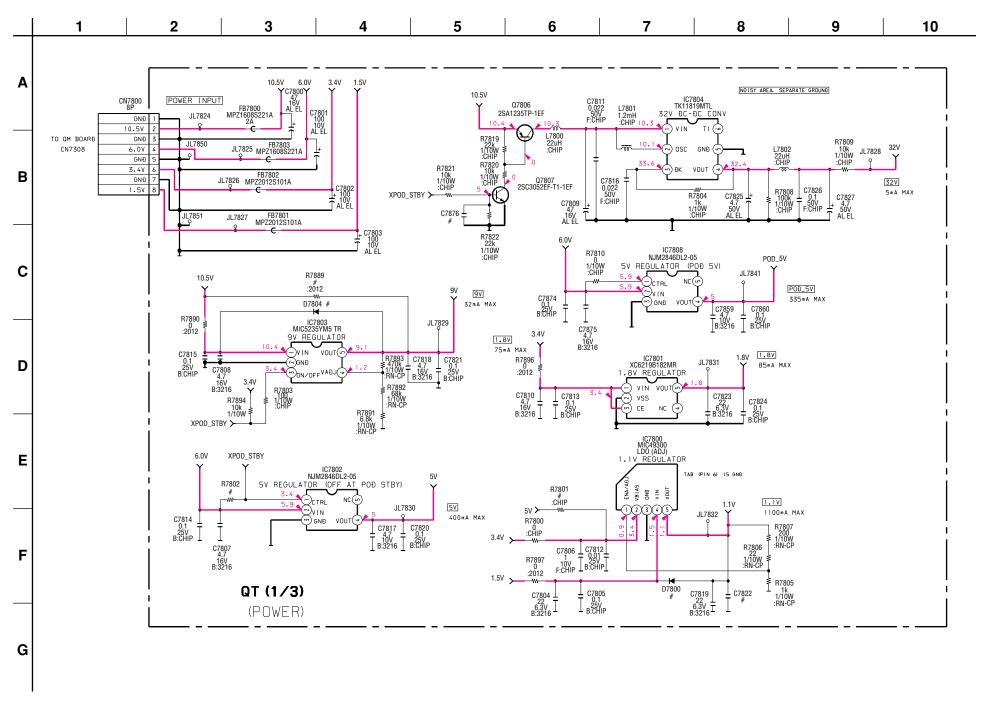
(4) Schematic Diagram of HC Board



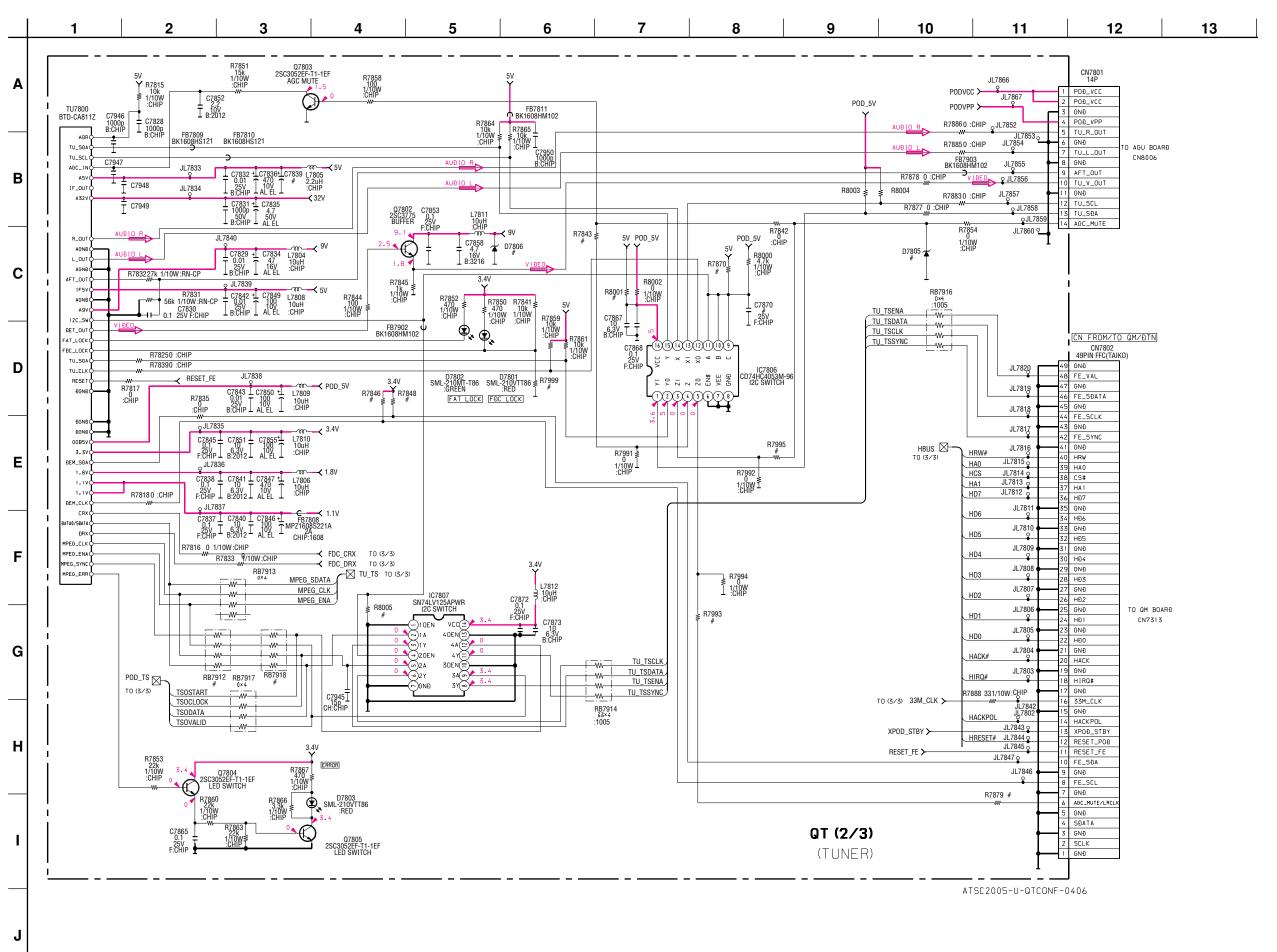
(5) Schematic Diagram of K Board



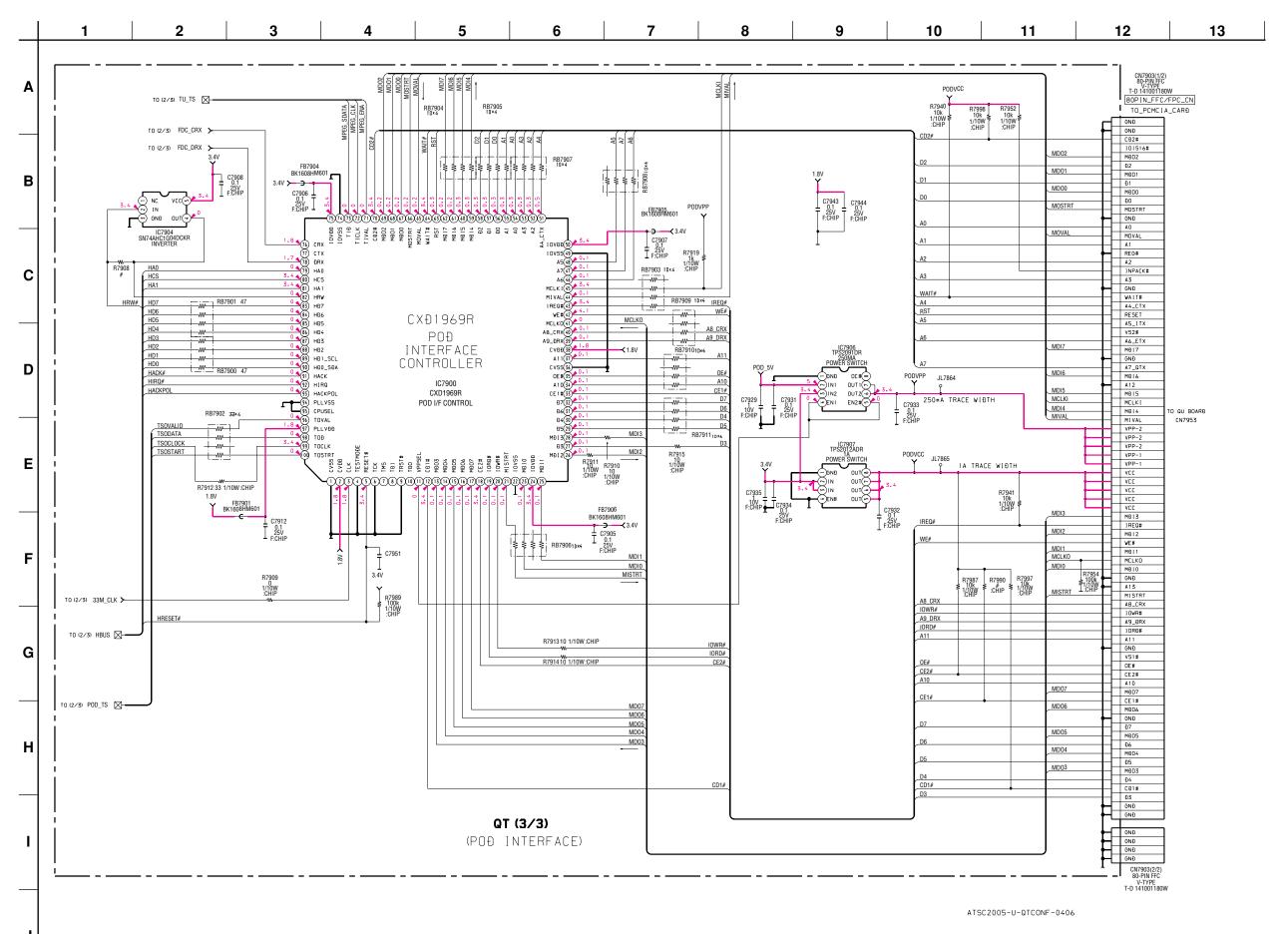
(6) Schematic Diagram of QT (1/3) Board



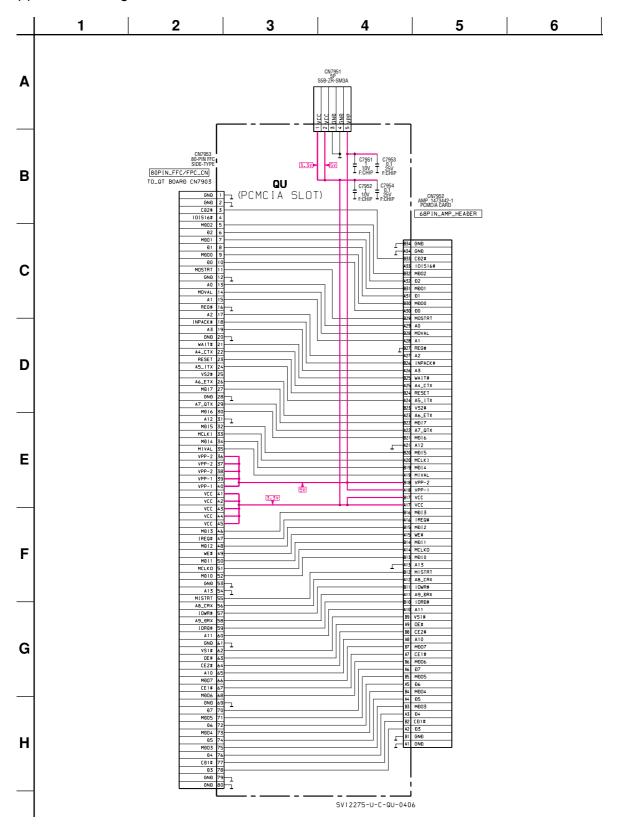
(7) Schematic Diagram of QT (2/3) Board



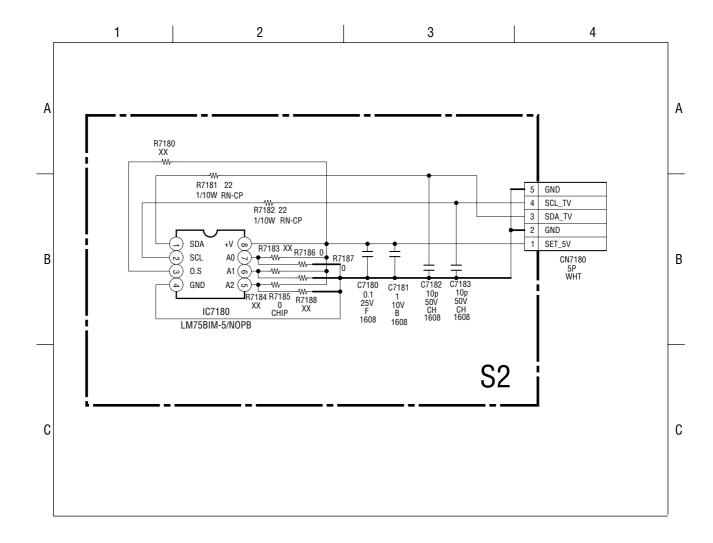
(8) Schematic Diagram of QT (3/3) Board



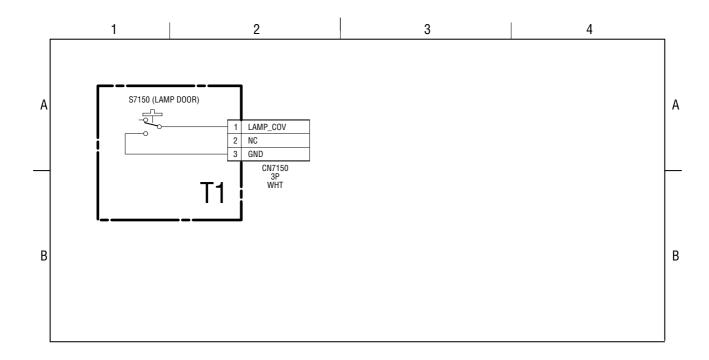
(9) Schematic Diagram of QU Board



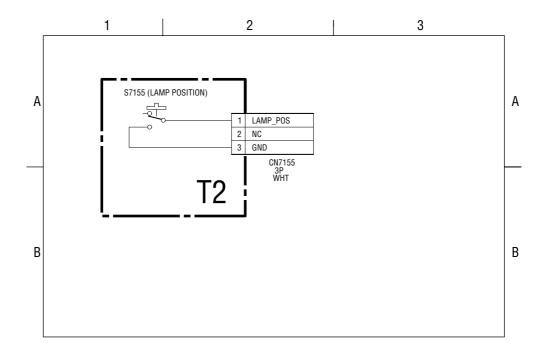
(10) Schematic Diagram of S2 Board



(11) Schematic Diagram of T1 Board

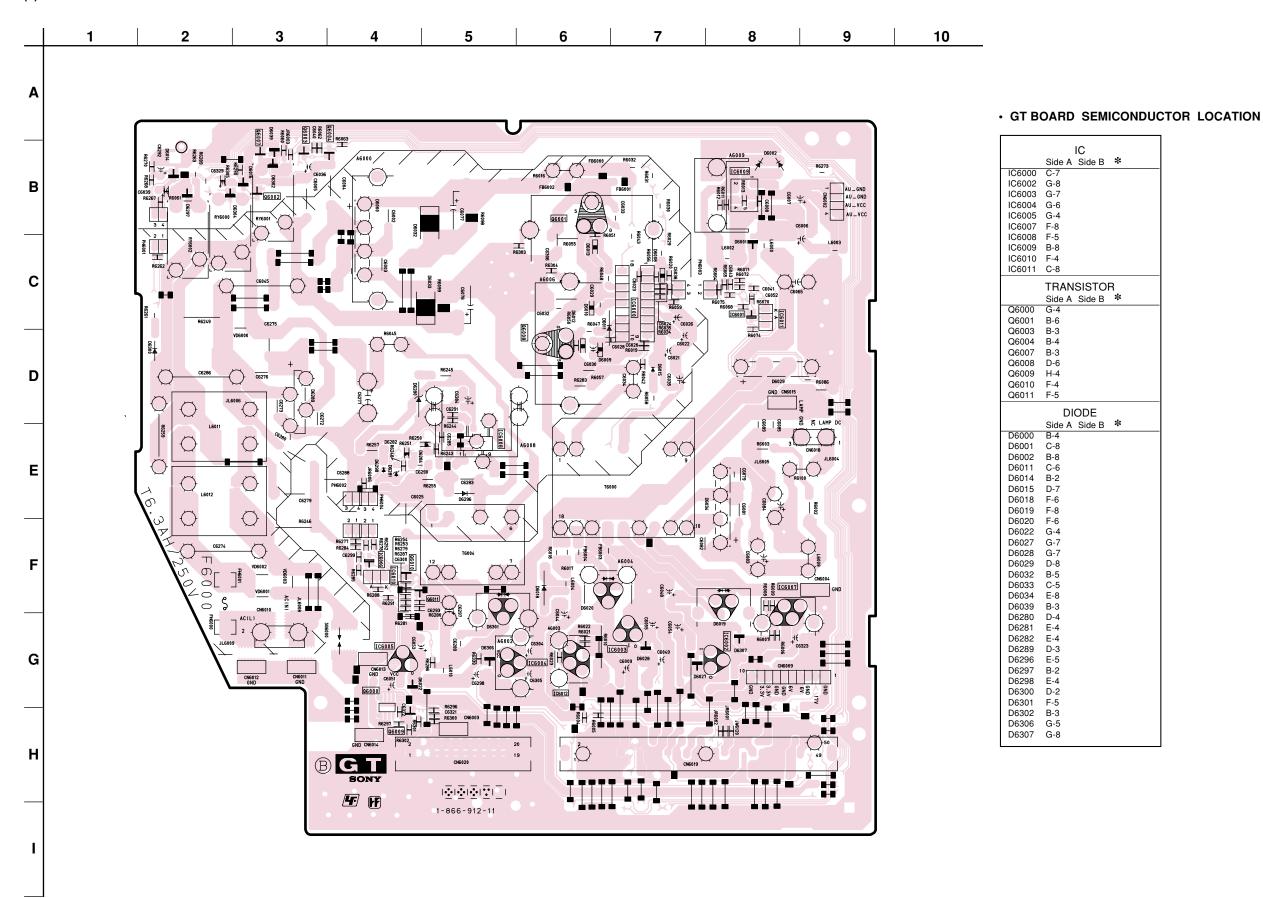


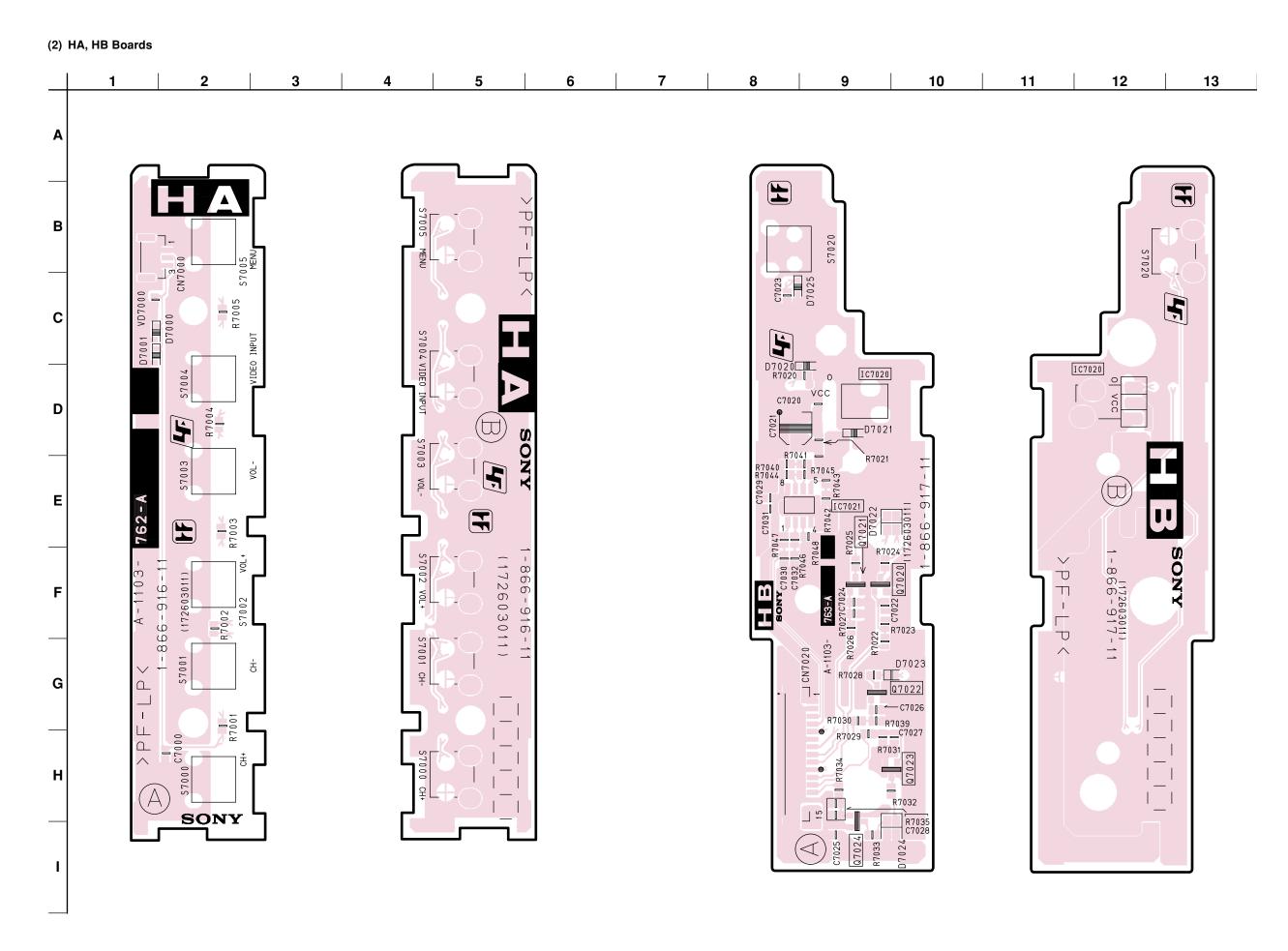
(12) Schematic Diagram of T2 Board

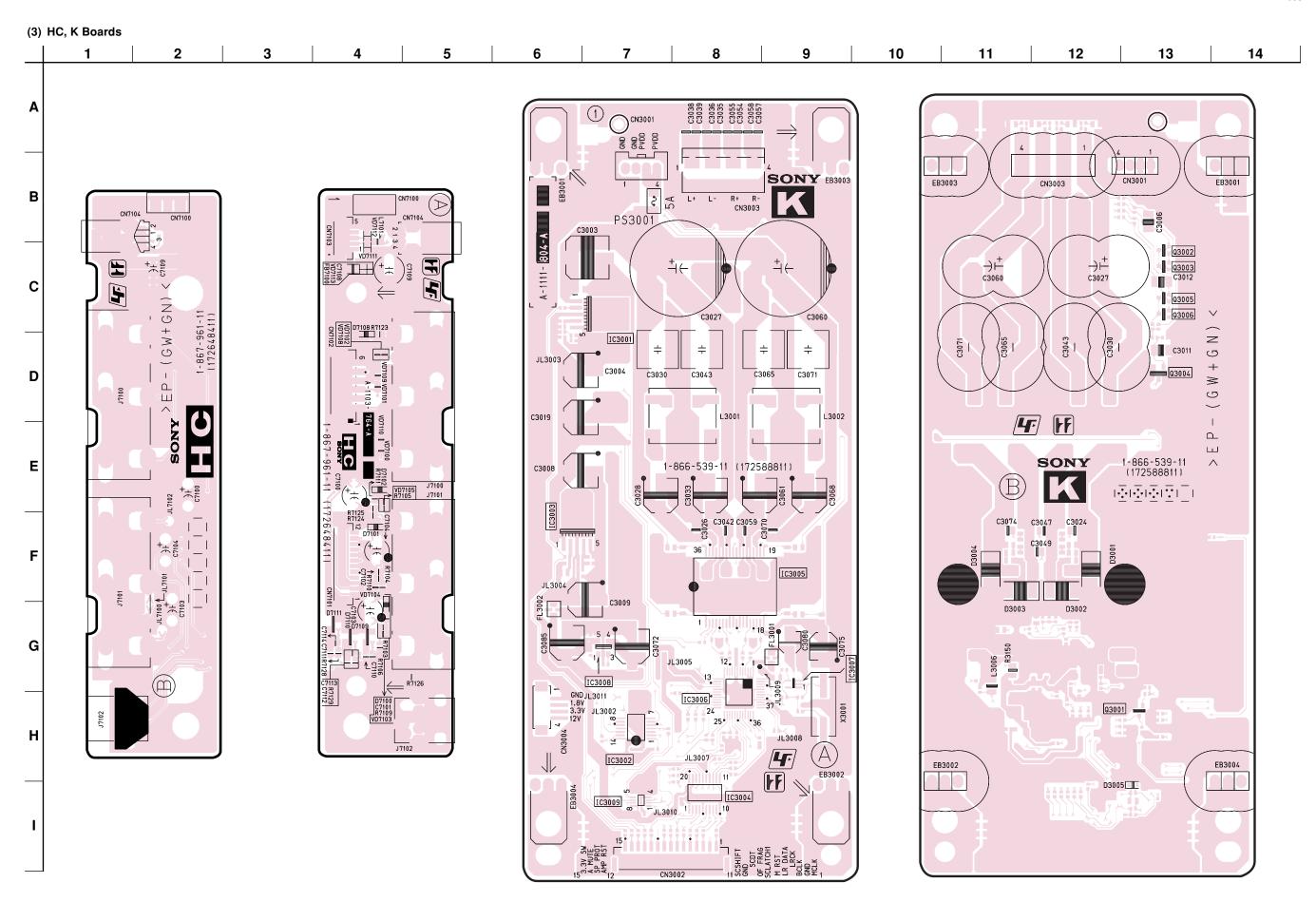


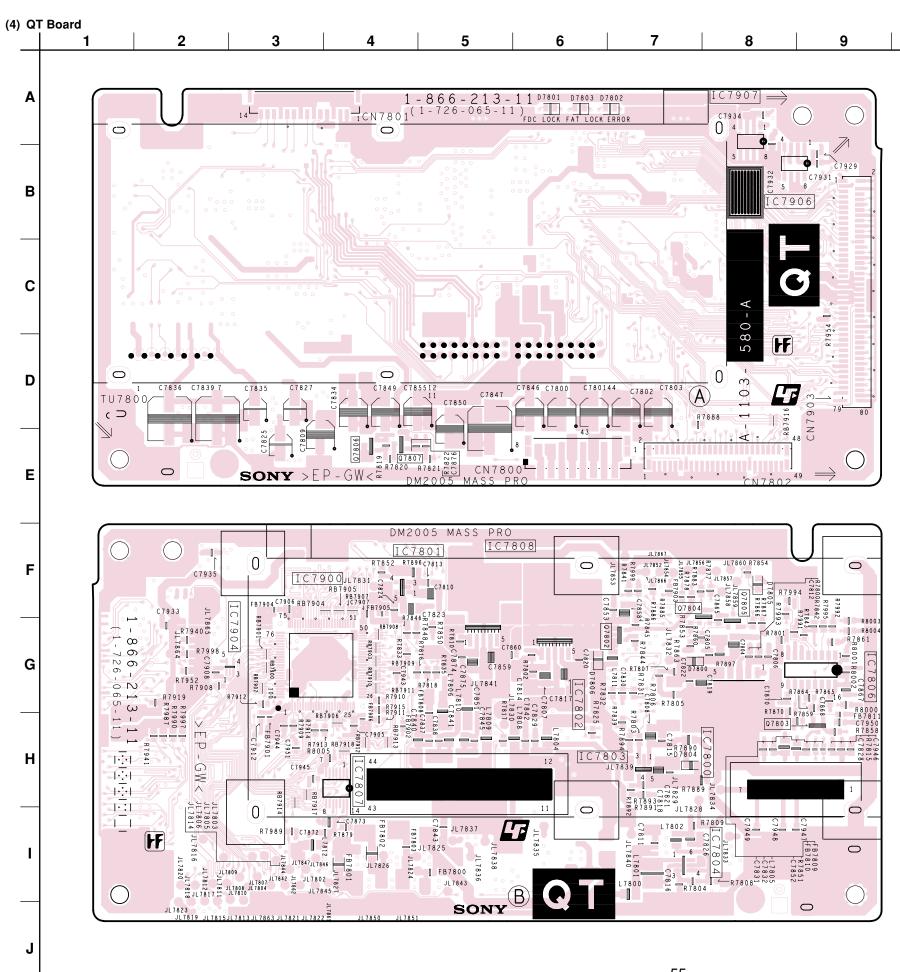
4-5. PRINTED WIRING BOARDS

(1) GT Board







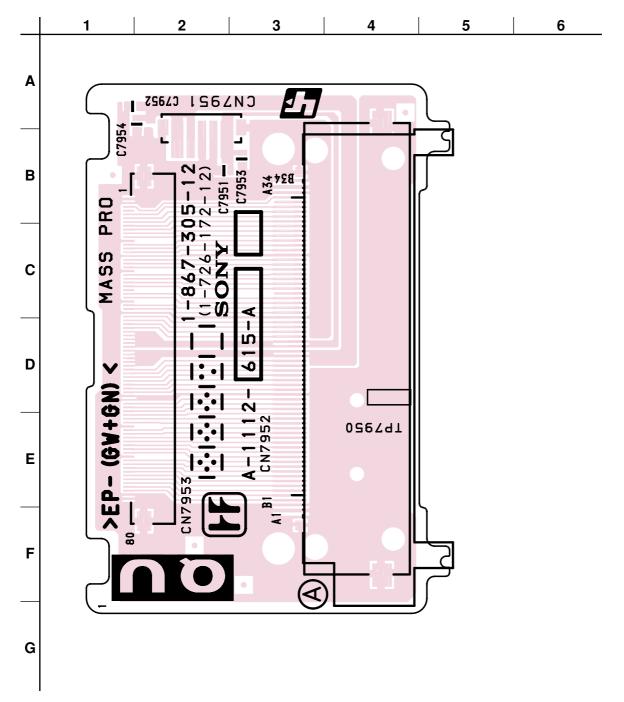


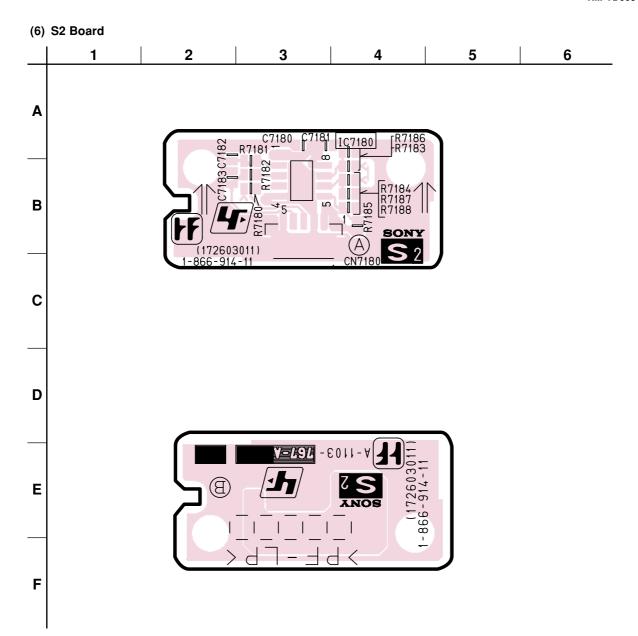
QT BOARD SEMICONDUCTOR LOCATION

	IC
	Side A Side B
IC7800	H-8
IC7801	
IC7802	
IC7803	
IC7804	
IC7806	
IC7807	
IC7808 IC7900	• •
IC7900 IC7904	
IC7904	
IC7907	
107007	
	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

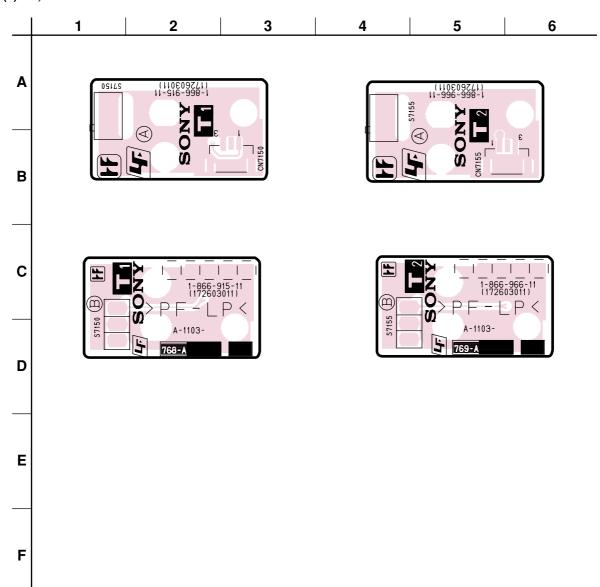
10







(7) T1, T2 Boards



4-6. SEMICONDUCTORS

LM75BIM-5/NOPB M24C02-WMN6T(B)



8 PINS

MCZ3001DB

TOP VIEW

18 PINS

MM1431ATT NJM2870F18 (TE2) XXC6219B182MR



5 PINS

NJM2387DL2-TE1



PQ1CG2032FZ



PQ30RV11



RPM7240-H8



2SC1623-L5L6 UPA1716G



10ERB20-TB3 UF4005/23



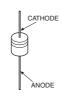
1SS184



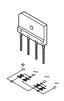
D10SC4M-F D10SC6M-4012



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.

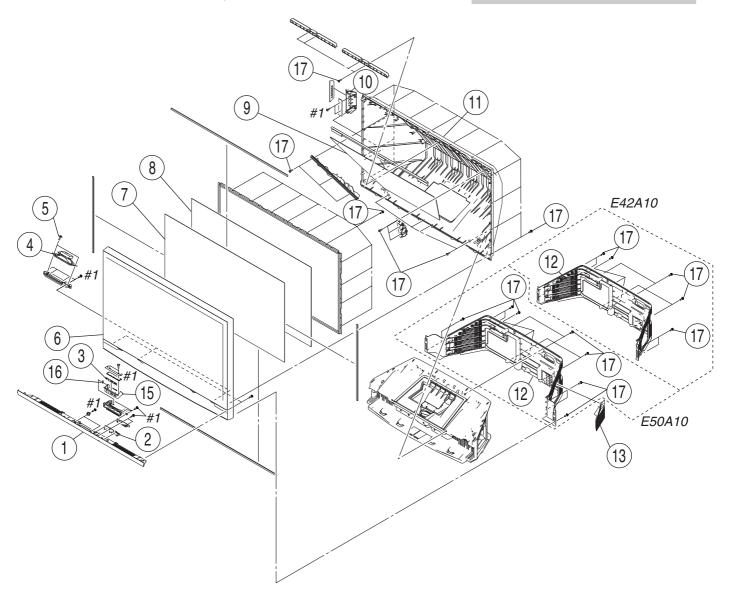
SECTION 5

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

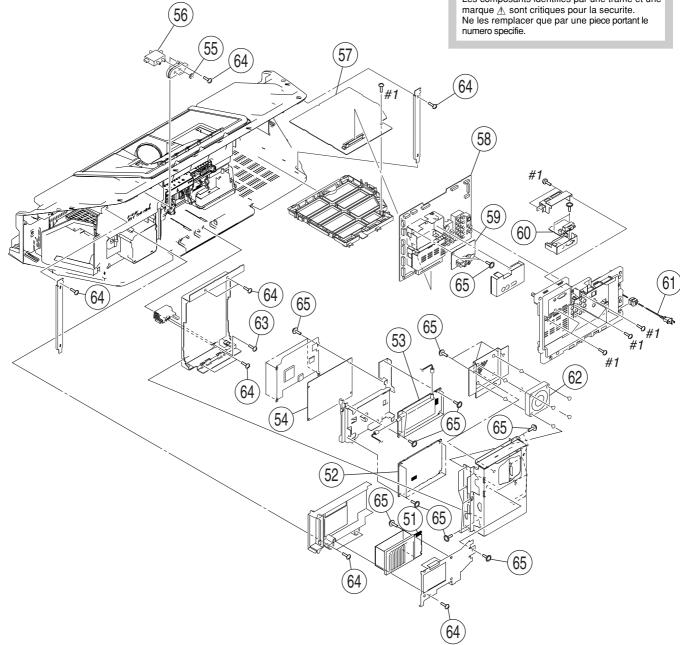


REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION		REMARK
1	2-590-903-01	GRILL, SPEAKER (42)	(E42A10)	9	A-1127-077-A	A MIRROR ASSY	(E42A10)	
1	2-590-908-01	GRILL, SPEAKER (50)	(E50A10)	10	2-590-909-01	BRACKET, HC (50))	(E50A10)
2	2-590-913-01	BUTTON, POWER						
3	2-590-914-01	BUTTON, MULTI		11	A-1127-075-A	A MIRROR COVER A	ASSY	(E50A10)
4	1-826-219-11	LOUD SPEAKER (5X15cm)		11	A-1127-078-A	A MIRROR COVER A	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 4	X16	
8	2-590-452-11	PLATE(50F), DIFFUSION	(E50A10)					
9	A-1127-074-A	A MIRROR ASSY (E50A10)		#1	7-685-648-79	SCREW +BVTP 3X	12 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.

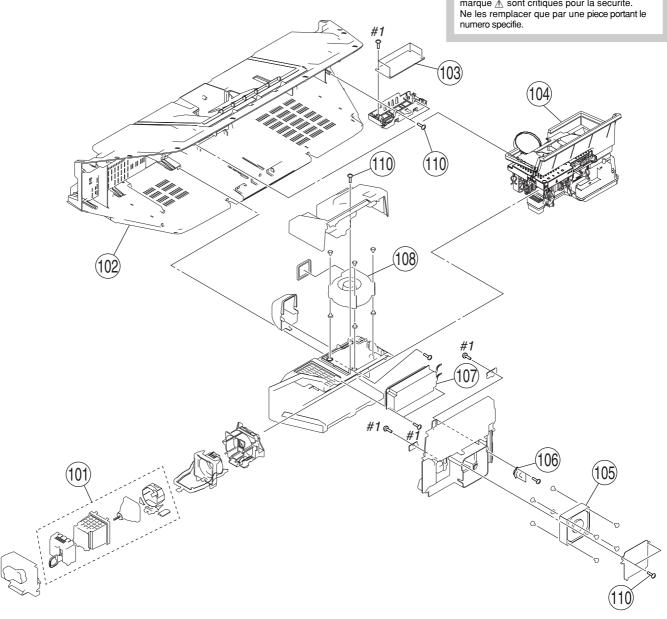


REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
51	* A-1073-391-A	QU BOARD, COMPLETE		60	A-1138-521	-A HPC BOARD, COMPLETE	
52	A-1129-347-A	. QM BOARD, COMPLETE					
53	A-1103-580-A	QT BOARD, COMPLETE		61	₾ 1-791-192-2	21 CORD, NOISE FILTER WITH PO	OWER
54	A-1129-348-A	B BOARD, 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 $\underline{\Lambda}$ sont critiques pour la securite. Ne les remplacer que par une piece portant le numero specifie.



REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
101	A-1124-850-A	LAMP BLOCK ASSY		106	1-576-912-1	1 THERMOSTAT	
102	X-2055-656-1	CABINET ASSY, BOTTOM(42) (E4:	2A10)	107	₾ 1-468-936-1	1 POWER SUPPLY BLOCK	
102	X-2055-653-1	CABINET ASSY, BOTTOM(50) (E50	0A10)	108	₾ 1-787-231-1	1 D.C. FAN (SIROCCO)	
103	A-1115-002-A	K BOARD, COMPLETE					
104	A-1123-069-A	OPTICS UNIT BLOCK ASSY (E50A	A10)	110	2-580-640-0	1 SCREW, +BVTP2 4X16	
104	A-1123-071-A	OPTICS UNIT BLOCK ASSY (E42A	A10)	#1	7-685-648-7	9 SCREW +BVTP 3X12 TYPE2 IT-	3
105 △	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 \triangle 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		F	REMARK
	A-1113-732-A	GT BOARD, COM	PLETE			C6279 /	1-119-888-51	CERAMIC	2200PF	20%	250V
		******					<u>↑</u> 1-119-888-51		2200PF	20%	250V
						C6283	1-162-116-00		680PF	10%	2KV
	4-382-854-01	SCREW (M3X8), F	2 SW (+)			C6284	1-102-110-00		330UF	20%	35V
	7 302 037 01	Seite W (M37to), I	,511 (1)			C0284	1-120-930-11	ELECI	330UF	20%	33 V
						C6285	1-164-217-11	CERAMIC CHIP	150PF	5%	50V
		< CAPACITOR >				C6286 Z	1-165-530-31	MYLAR	0.47UF	10	0V
						C6289	1-137-353-11	MYLAR	0.047UF	5%	100V
C6006	1-128-953-31		470UF	20%	25V	C6290	1-137-365-11	MYLAR	0.0015UF	5%	50V
C6007	1-128-953-31	ELECT	470UF	20%	25V	C6291	1-162-964-11	CERAMIC CHIP	0.001UF	10%	50V
C6008		CERAMIC CHIP	0.0022UF	10%	50V						
C6020	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V	C6292	1-126-934-11	ELECT	220UF	20%	16V
C6021	1-126-967-11	ELECT	47UF	20%	50V	C6297	1-137-852-31	ELECT	3300UF	20%	16V
						C6298	1-126-935-11	ELECT	470UF	20%	16V
C6022	1-126-962-11	ELECT	3.3UF	20%	50V	C6299	1-164-227-11	CERAMIC CHIP	0.022UF	10%	25V
C6023	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V	C6300	1-110-563-11	CERAMIC CHIP	0.068UF	10%	16V
C6024	1-100-831-91	CERAMIC CHIP	0.001UF	2%	50V						
C6026	1-126-964-11	ELECT	10UF	20%	50V	C6304	1-126-947-11	ELECT	47UF	20%	35V
C6028	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V	C6305	1-126-947-11		47UF	20%	35V
						C6323	1-126-935-11		470UF	20%	16V
C6029	1-136-497-81	FILM	0.1UF	5%	50V	C0323	1 120 755 11	EEECT	17001	2070	10 (
C6030	1-126-947-11		47UF	20%	35V						
C6032	1-107-824-11		220PF	5%	1KV			< CONNECTOR	_		
C6033	1-107-824-11		220PF	5%	1KV			CONNECTOR			
C6034	1-165-954-11		56000PF	3%	800V	CN16000	1 704 502 11	PIN, CONNECTO	OD (DOAD DA	CIZ) 4I)
C0054	1 103 754 11	TILIVI	3000011	370	0001			PIN, CONNECTO	`		
C6035	1-126-969-11	EL ECT	220UF	20%	50V			PIN, CONNECTO		,	r
C6036	1-126-963-11		4.7UF	20%	50V)	
C6039	1-126-963-11		4.7UF	20%	50V			TAB (CONTACT	/		
C6040		CERAMIC CHIP	0.1UF	10%	16V	CN0012	2 1-093-913-11	TAB (CONTACT)		
C6040		CERAMIC CHIP	0.101 0.01UF	10%	25V	CNIC012	1 605 015 11	TAD (CONTA CT			
C0041	1-102-970-11	CERAINIC CIII	0.0101	10 /6	23 V			TAB (CONTACT			
C6044	1-126-940-11	EI ECT	330UF	20%	25V			TAB (CONTACT			
	1-120-940-11		0.47UF	10	0V			TAB (CONTACT	*	DD) 2D	
C6048	1-128-951-31		2200UF	20%	16V			PIN, CONNECTOR			
C6049			2200UF 2200UF	20%	16V 16V	CN6019	1-815-789-11	CONNECTOR, B	OARD TO B	OARL	50P
C6051	1-128-951-31 1-126-933-11		100UF	20%	16V 16V						
C0031	1-120-933-11	ELECT	10001	20%	10 V			< DIODE >			
C6052	1-137-190-91	FILM	0.22UF	5%	50V			< DIODE >			
C6053	1-126-947-11	ELECT	47UF	20%	35V	D6000 /	↑ 8-719-510-53	DIODE D4SB60)T .		
C6054	1-126-935-11	ELECT	470UF	20%	16V	D6001		DIODE MC2838			
C6055	1-126-947-11		47UF	20%	35V	D6001		DIODE D10SC4			
C6065	1-128-548-11		4700UF	20%	25V	D6011		DIODE UF4005			
			.,			D6011		DIODE MC2838			
C6077 △	1-131-940-11	ELECT	1200UF	20%	250V	20014	0 300 333 01	21022 11102030	, 1111		
C6078 △	1-131-940-11	ELECT	1200UF	20%		D6015	6-500-567-31	DIODE 10ERB2	0-TB3		
C6083	1-100-714-11		100UF	20%	400V	D6013		DIODE D2L20U			
C6084	1-100-714-11		100UF	20%	400V	D6019		DIODE D10SC6			
C6085	1-161-830-00					D6020		DIODE D5LC20			
23000	000 00			230 1		D6020		DIODE MC2838			
C6272 △	1-161-964-91	CERAMIC	0.0047UF	250V		20022	0 200 333 01	_1022 11102030			
C6273 △	1-161-964-91	CERAMIC	0.0047UF	250V		D6027	6-500-335-01	DIODE MC2838	3-T112-1		
C6274 △	1-165-530-31	MYLAR	0.47UF	10	0V	D6028		DIODE MC2838			
	1-161-964-91		0.0047UF			D6029		DIODE D4SBS6			
C6276	1-161-964-91		0.0047UF			D6032		DIODE S3G			
						D6032		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



									1	GI
REF. NO.	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
							< TRANSISTOR			
D6034		DIODE D4SBL40	10.1				< TRANSISTOR	(>		
D6039		DIODE MC2838-T1	12-1		06000	0.720.054.26	TD ANGIOTOD	LIDA 1716C F2		
D6280		DIODE RD16FB2			Q6000		TRANSISTOR			***
D6281		DIODE RD8.2ESB2			Q6001		TRANSISTOR	,	SON	Y,Q
D6282	6-500-567-31	DIODE 10ERB20-TI	B3		Q6003		TRANSISTOR			
					Q6004		TRANSISTOR			
D6289 △	8-719-077-76	DIODE D2SB60A-F	04		Q6007	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
D6296	8-719-055-45	DIODE ERA22-08T	P3							
D6297	6-500-335-01	DIODE MC2838-T1	12-1		Q6008		TRANSISTOR			Y,Q
D6298	6-500-567-31	DIODE 10ERB20-TI	B3		Q6009	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
D6300	8-719-948-45	DIODE ERA22-08			Q6010	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
					Q6011	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
D6301	8-719-057-96	DIODE D10SC6M-4	1012							
D6302	6-500-335-01	DIODE MC2838-T1	12-1							
D6306	6-500-335-01	DIODE MC2838-T1	12-1				< RESISTOR >			
D6307	6-500-335-01	DIODE MC2838-T1	12-1							
					R6002	1-215-904-11	METAL OXIDE	100K	5%	2W
					R6003	1-215-904-11	METAL OXIDE	100K	5%	2W
		<fuse></fuse>			R6005		SHORT CHIP	0		
		110027			R6006		METAL CHIP	27K	0.5%	1/10W
F6000 ↑	1-532-506-51	FUSE 6	.3A 250V	•	R6007		METAL CHIP			1/10W
1 00000 2	1-332-300-31	TOSE 0.	.5A 250 V		110007	1 210 000 11	WEITE CITE	1.011	7.5 70	1,1011
					R6009	1-216-821-11	METAL CHIP	1K :	5%	1/10W
		< FERRITE BEAD >			R6011		METAL CHIP			1/10W 1/10W
		TERMITE DEAD >			R6011		METAL CHIP			1/10W 1/10W
ED6000	1-410-396-41	EEDDITE 0	.45UH		R6012		METAL CHIP			1/10W
			.45UH .45UH		R6016	1-202-933-61				1/2W
	1-410-396-41				K0010	1-202-933-01	PUSIBLE	0.1	10%	1/2 VV
	1-410-396-41		.45UH		D6017	1-249-377-11	CADDON	0.47	5%	1/4W
	1-412-911-11		UH		R6017	1-249-377-11			5% 5%	1/4 W
FB6004	1-412-911-11	FERRITE 0	UH		R6018					•
					R6019		METAL CHIP			1/10W
		THE HOLDER			R6020		METAL CHIP			1/10W
		< FUSE HOLDER >			R6029	1-245-472-21	METAL	270K	1%	1/4W
ELICOOO /	1 522 222 11	ELICE HOLDED			D(020	1 245 471 21	METAL	240K	1%	1/4W
		FUSE HOLDER			R6030 R6031	1-245-471-21 1-245-471-21			1% 1%	1/4W
FH00012	1 1-333-223-11	FUSE HOLDER			R6031	1-245-471-21			1%	1/4W
					R6035					1/4 w 1/10W
		10			R6042		METAL CHIP			•
		< IC >			K0042	1-211-991-11	METAL CHIP	02	J.570	1/10W
10(000	(705 910 01	IC MC72001DD			R6043	1-212-897-00	EUCIDI E	470	5%	1/4W
IC6000		IC MCZ3001DB			R6045	1-202-933-61				1/4W
IC6002		IC BA50BC0T			R6043	1-249-393-01			5%	1/2 W
IC6003		IC BA90BC0T			R6048	1-249-393-11			5 % 5%	1/4W
IC6004		IC BA50BC0T								
IC6005	6-705-464-01	IC BA50BC0T			R6050	1-218-8/1-11	METAL CHIP	10K	J.5%	1/10W
100007	0.750.000.24	IC DO20DV11100H			R6051	1 219 971 11	METAL CHIP	10K	0.5%	1/10W
IC6007		IC PQ30RV11J00H			R6054	1-245-494-31			2%	1/4W
IC6008		IC MR4010-7103			R6055	1-245-494-31			2% 2%	1/4W
IC6009		IC PQ1CG2032FZ			R6056		METAL CHIP		2% 5%	1/4 W 1/10W
IC6010		IC MM1431ATT			R6057		METAL OXIDE		5% 5%	1/10 W
IC6011	8-759-682-42	IC MM1431ATT			K0037	1-243-979-71	METAL OXIDE	0.1	3%	Z VV
					R6058	1-249-385-11	CADDON	2.2	5%	1/4W
		COH						0	370	1/4 VV
		<coil></coil>			R6059		SHORT CHIP METAL CHIP		F 01	1/1033/
* <000	1 100 050 11	ninii aman			R6060				5%	1/10W
L6000	1-406-659-11		OUH		R6061		METAL CHIP		5%	1/10W
L6002	1-419-742-12		3UH		R6062	1-216-833-11	METAL CHIP	10K	5%	1/10W
L6003	1-406-659-11		0UH		D.(0/2	1 21 6 021 11	METAL CHID	177	T 01	1 /1 0117
L6004	1-412-525-31		0UH		R6063		METAL CHIP		5%	1/10W
L6009	1-406-983-11	INDUCTOR 11	MH		R6064		METAL CHIP		5%	1/10W
					R6065		METAL CHIP		5%	1/10W
L6010	1-406-661-21		2UH		R6068		SHORT CHIP	0		
L6011 △	1-456-859-11	LINE FILTER COIL			R6070	1-216-833-11	METAL CHIP	10K	5%	1/10W
L6012 △	1-456-859-11	LINE FILTER COIL								
					R6072		METAL CHIP			1/10W
					R6074		METAL CHIP			1/10W
		$<\!PHOTOCOUPLER$	>		R6086		METAL OXIDE		5%	1W
					R6089		SHORT CHIP	0		
PH60012	△6-600-187-01	PHOTOCOUPLER P	C123Y22JOOF		R6098	1-220-340-11	METAL CHIP	470K	5%	1/2W
		PHOTOCOUPLER P								
PH60032	△6-600-187-01	PHOTOCOUPLER P	C123Y22JOOF		R6099	1-220-340-11	METAL CHIP	470K	5%	1/2W
		PHOTOCOUPLER P			R6100	1-202-933-61	FUSIBLE	0.1	10%	1/2W
					R6243	1-216-835-11	METAL CHIP	15K	5%	1/10W
					R6244	1-218-720-11	METAL CHIP	15K).5%	1/10W
					R6245		METAL OXIDE		5%	1W

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

GT

HA



REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
	1-219-568-91		8.2M	5%	1/2W			< CONNECTOR	! >		
R6248		METAL CHIP	3.9K	5%	1/2 W			CONTILCTOR			
						CNIZOOO	1 010 445 11	HEADED AGGE	MDINEOD	DWD 2	ND.
R6249	1-219-759-11		1M	5%	1/2W	CN/000	1-819-445-11	HEADER ASSE	MBLY FOR	PWB	OP .
R6250		METAL CHIP	4.7K	5%	1/10W						
R6251	1-216-828-11	METAL CHIP	3.9K	5%	1/10W			< RESISTOR >			
R6252	1-216-837-11	METAL CHIP	22K	5%	1/10W			< KLSISTOR >			
R6253	1-216-833-11	METAL CHIP	10K	5%	1/10W	R7001	1-218-676-11	METAL CHIP	220	0.59	% 1/10W
R6254	1-216-833-11	METAL CHIP	10K	5%	1/10W	R7002	1-218-684-11	METAL CHIP	470		6 1/10W
R6255		METAL OXIDE	0.39	5%	1W	R7003		METAL CHIP	910		6 1/10W
R6257		METAL OXIDE	1	5%	1W	R7004		METAL CHIP	1.8K		6 1/10W
K0237	1-210-347-00	WIETAE OAIDE	1	370	1 **	R7004		METAL CHIP	3.9K		% 1/10W
R6259	1-244-207-11	WIREWOUND	3.3	5%	10W						
R6261	1-260-328-11		1K	5%	1/2W						
R6262		METAL CHIP	4.7K	5%	1/10W			< SWITCH >			
R6263	1-249-389-11		4.7	5%	1/4W			(5,111,011)			
R6267		METAL CHIP	4.7K	5%	1/10W	S7000	1 602 421 21	SWITCH, TACT	шЕ		
K0207	1-210-629-11	METAL CHIP	4./K	370	1/10 vv	S7000 S7001		SWITCH, TACT			
D (2(0		A COURT OF THE	4.77	5 01	4 44 0777						
R6268		METAL CHIP	1K	5%	1/10W	S7002		SWITCH, TACT			
R6273	1-249-389-11	CARBON	4.7	5%	1/4W	S7003		SWITCH, TACT			
R6277	1-216-821-11	METAL CHIP	1K	5%	1/10W	S7004	1-692-431-21	SWITCH, TACT	ILE		
R6278	1-216-827-11	METAL CHIP	3.3K	5%	1/10W						
R6279	1-216-845-11	METAL CHIP	100K	5%	1/10W	S7005	1-692-431-21	SWITCH, TACT	ILE		
R6280	1_216 822 11	METAL CHIP	10K	5%	1/10W	******	******	******	*****	*****	*****
R6280 R6281		METAL CHIP	10K 10K		1/10W 1/10W						
				5%	•						
R6283		METAL OXIDE	0.1	5%	2W			HB MOUNT			
R6284	1-216-864-11	SHORT CHIP	0					*****			
R6285	1-216-832-11	METAL CHIP	8.2K	5%	1/10W						
R6286	1_216_83/_11	METAL CHIP	12K	5%	1/10W			< CAPACITOR	_		
R6287		METAL CHIP	12K 15K		1/10W			CATACITOR			
						G7020	1 164 156 11	CED AMIC CITI	0.1111		251
R6288		METAL CHIP	4.7K	0.5%	1/10W	C7020		CERAMIC CHI			25V
R6291		SHORT CHIP	0			C7021	1-126-964-11		10UF	20%	
R6296	1-216-821-11	METAL CHIP	1K	5%	1/10W	C7022	1-162-974-11	CERAMIC CHI	P 0.01UF		50V
						C7023	1-162-974-11	CERAMIC CHI	P 0.01UF		50V
R6297	1-216-801-11	METAL CHIP	22	5%	1/10W	C7024	1-162-974-11	CERAMIC CHI	P 0.01UF		50V
R6300		METAL CHIP	1K	5%	1/10W						
R6301		SHORT CHIP	0	270	1,10	C7025	1-164-156-11	CERAMIC CHI	P 0.1UF		25V
		METAL CHIP	100K	5%	1/10W	C7026		CERAMIC CHI			50V
R6302				3%	1/10 W						
R6339	1-216-864-11	SHORT CHIP	0			C7027		CERAMIC CHI			50V
						C7028		CERAMIC CHI			50V
		< RELAY >				C7029	1-164-156-11	CERAMIC CHI	P 0.1UF		25V
		< KELAI >				C7030	1-162-915-11	CERAMIC CHI	P 10PF	0.50	PF 50V
RY6001/	1-755-388-11	RELAY (AC POW	ER)			C7031		CERAMIC CHI		10%	10V
		RELAY (AC POW				C7032		CERAMIC CHI			PF 50V
		< SPARK GAP>						< DIODE >			
		(SITHUL OTH)						(DIODE)			
SG6000	1-576-487-11	ELEMENT, SPAR	K			D7022		DIODE SML-0			
						D7023		DIODE SML-3			
		< TRANSFORME	D <			D7024	6-500-861-01	DIODE SML-0	20MVT-186		
		< TRAINSFORME	K >								
T6000 ₫	1-443-747-11	TRANSFORMER	(PIT)					< IC >			
T6004 ₫	1-443-748-11	TRANSFORMER	(SRT)			105000		10 DD1 (50 10 1			
						IC7020 IC7021		IC RPM7240-H IC LM75BIM-5			
		< VARISTOR >				10/021	0-707-223-01	IC LIVI/JBIIVI-,)/NOFB		
	△ 1-804-992-21							< TRANSISTOR	? >		
	1-804-991-21					07020	0.720.120.20	TD ANGICTOD	2001/22 14	TI (
V D0003	<u> 1-804-991-21</u>	VARISTOR				Q7020 Q7021		TRANSISTOR TRANSISTOR			
******	******	*******	******	*****	*****	Q7022		TRANSISTOR			
						Q7023	8-729-120-28	TRANSISTOR	2SC1623-L5	5L6	
		HA MOUNT				Q7024		TRANSISTOR			
		******				2,024	5,2712020	-1		. 20	
		- CARACITOR						< RESISTOR >			
		< CAPACITOR >				R7020	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
C7000	1-100-597-91	CERAMIC CHIP	0.1UF	10%	25V	R7021		METAL CHIP	47	5%	1/10W
						1					

RM-YD003 RM-YD003

							_		RM-Y	D003 I	RM-YD003
								ир и		П	20
								HB H		П	
REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R7022	1-216-833-11	METAL CHIP	10K	5%	1/10W	R7125	1-218-676-11	METAL CHIP	220	0.5%	1/10W
R7023	1-216-833-11	METAL CHIP	10K	5%	1/10W						,
R7024	1-216-813-11	METAL CHIP	220	5%	1/10W	R7126		SHORT CHIP	0		
D7025	1 216 912 11	METAL CHID	220	E 01	1/1037	R7128		METAL CHIP	10	5%	1/10W
R7025 R7026		METAL CHIP METAL CHIP	220 10K	5% 5%	1/10W 1/10W	R7129	1-216-797-11	METAL CHIP	10	5%	1/10W
R7020		METAL CHIP	10K	5%	1/10W						
R7028		METAL CHIP	220	5%	1/10W			< VARISTOR >			
R7029	1-216-833-11	METAL CHIP	10K	5%	1/10W						
								VARISTOR, CHIP	. ,		
R7030		METAL CHIP	10K	5%	1/10W			VARISTOR, CHIP			
R7031 R7032		METAL CHIP	10K 220	5%	1/10W			VARISTOR, CHIP			
R7032 R7033		METAL CHIP METAL CHIP	220	5% 5%	1/10W 1/10W			VARISTOR, CHIP VARISTOR, CHIP	. ,		
R7034		METAL CHIP	10K	5%	1/10W	VD/109	1-803-974-21	VARISTOR, CITI	(1008)		
10,00	1 210 000 11		1011	2 70	1,10	VD7110	1-803-974-21	VARISTOR, CHIP	(1608)		
R7035	1-216-833-11	METAL CHIP	10K	5%	1/10W			•	` /		
R7039		METAL CHIP	10K	5%	1/10W	******	*********	*******	******	*****	******
R7046		METAL CHIP	22	5%	1/10W						
R7047	1-216-801-11	METAL CHIP	22	5%	1/10W			HPC MOUNT ********			

		< SWITCH >									
		(BWHCH)						< CAPACITOR >			
S7020	1-692-431-21	SWITCH, TACTIL	Е								
						C7200	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
******	******	******	******	*****	*****	C7201		CERAMIC CHIP	1UF	10%	16V
		HOMOLDIE				C7202		CERAMIC CHIP	1UF	10%	16V
		HC MOUNT *******				C7205		CERAMIC CHIP	0.1UF	10%	16V
		4.				C7206	1-10/-826-11	CERAMIC CHIP	0.1UF	10%	16V
						C7207	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
		< CAPACITOR >				0,20,	1 10, 020 11	obra maro orm	0.101	1070	10 .
C7101		CERAMIC CHIP	0.001UF	10%	50V			< CONNECTOR >			
C7102		CERAMIC CHIP	0.001UF	10%	50V						
C7103 C7104	1-126-964-11 1-126-964-11		10UF 10UF	20% 20%	50V 50V	CN7200	1-794-930-21	CONNECTOR, D S	SUB		
C7104 C7111		CERAMIC CHIP	100F 100PF	20% 5%	50V 50V						
C/111	1 102)27 11	CERC IIVIIC CIIII	10011	3 70	30 1			< DIODE >			
C7112	1-162-927-11	CERAMIC CHIP	100PF	5%	50V						
C7113	1-164-227-11	CERAMIC CHIP	0.022UF	10%	25V	D7203	8-719-073-39	DIODE HZU5.6G	TRF		
C7114	1-164-227-11	CERAMIC CHIP	0.022UF	10%	25V	D7204		DIODE HZU5.6G			
						D7205		DIODE HZU5.6G	TRF		
		< DIODE >				D7208 D7209		DIODE DTZ10B DIODE DTZ10B			
		< DIODE >				D7209	0-/19-9//-20	DIODE DIZIOB			
D7100	8-719-977-28	DIODE DTZ10B				D7210	8-719-404-50	DIODE MA111-T	X		
D7101	8-719-977-28	DIODE DTZ10B				D7212	8-719-977-28	DIODE DTZ10B			
D7102		DIODE UDZSTE				D7213	8-719-801-78	DIODE 1SS184			
D7108		DIODE UDZSTE-									
D7109	8-719-062-19	DIODE MA3200V	VA-TX					. PEDDITE DE AD			
D7110	8-710-062-10	DIODE MA3200V	WA_TY					< FERRITE BEAD	>		
D7110 D7111		DIODE MA3200V				FB7200	1-469-100-21	FERRITE	0UH		
2,111	0 ,13 002 13	51052 NH 10200					1-469-100-21		0UH		
							1-469-100-21		0UH		
		< JACK >				FB7204	1-400-141-22	FERRITE	0UH		
77100		DIVONO IL GIL AD									
J7100		PHONO JACK 3P						10			
J7101 J7102	1-819-356-11	PHONO JACK 3P						< IC >			
J/102	1-306-207-11	JACK				IC7200	6-704-600-01	IC M24C02-WMN	J6T(R)		
						10/200	0-704-000-01	IC WIZ4COZ-WWI	ЮГ(Б)		
		< RESISTOR >									
								< JACK >			
R7103		METAL CHIP	220K	5%	1/10W						
R7104		METAL CHIP	220K	5%	1/10W	J7200	1-573-798-11	JACK, MINIATUR	E (DIA. 3.	5)	
R7105		METAL CHIP	220		1/10W						
R7106 R7109		METAL CHIP METAL CHIP	100 1K	0.5% 5%	1/10W 1/10W			∠ICI INIV S			
K/109	1-210-021-11	MILIAL CHIP	118	J70	1/10 W			< IC LINK >			
R7110	1-216-821-11	METAL CHIP	1K	5%	1/10W	PS7200	1-576-122-21	IC LINK	0.4A	72V	
R7111		SHORT CHIP	0			25,200		1		'	
R7123		SHORT CHIP	0								
R7124	1-218-676-11	METAL CHIP	220	0.5%	1/10W						

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 >								10%	50V
07200	(550 014 01	TD ANGICTOD CO	CM/CNI1EELI	TEOFT	2)	C3037	1-104-937-11	CERAMIC CHIP	0.001UF	10%	30 V
Q7200	6-550-014-01	TRANSISTOR S	SMONISFU	(1E85F	()	G2020		arn i i i a airin	0.4775	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		METAL CHIP	100K	5%	1/10W					- /-	
R7205		METAL CHIP	47	5%	1/10W	C3044	1 164 037 11	CERAMIC CHIP	0.001UF	10%	50V
R7205				3 70	1/10**						
		SHORT CHIP	0			C3045		CERAMIC CHIP		10%	50V
R7207	1-216-864-11	SHORT CHIP	0			C3046		CERAMIC CHIP		10%	50V
						C3047	1-163-989-11	CERAMIC CHIP	0.033UF	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		METAL CHIP	330K	5%	1/10W	C3050		CERAMIC CHIP		10%	50V
										10%	
R7216	1-210-855-11	METAL CHIP	10K	5%	1/10W	C3051		CERAMIC CHIP			16V
						C3052		CERAMIC CHIP			16V
R7217	1-216-833-11	METAL CHIP	10K	5%	1/10W	C3053	1-164-937-11	CERAMIC CHIP	0.001UF	10%	50V
R7218	1-216-805-11	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		CERAMIC CHIP		10%	50V
R7223		SHORT CHIP	0			C3056		CERAMIC CHIP		10%	50V
K/223	1-210-004-11	SHOKI CIII	U								
						C3057		CERAMIC CHIP		10%	50V
R7227		METAL CHIP	1K	5%	1/10W	C3058	1-115-339-11	CERAMIC CHIP	0.1UF	10%	50V
R7229	1-216-845-11	METAL CHIP	100K	5%	1/10W						
R7231	1-216-864-11	SHORT CHIP	0			C3059	1-115-339-11	CERAMIC CHIP	0.1UF	10%	50V
R7232	1-216-864-11	SHORT CHIP	0			C3060	1-112-030-31	ELECT	1500UF	20%	35V
R7233		SHORT CHIP	0			C3061		ELECT CHIP	47UF	20%	25V
11,200	1 210 00 . 11	5110111 01111	· ·			C3062		CERAMIC CHIP		10%	50V
D7224	1 216 964 11	CHODT CHID	0								
R7234		SHORT CHIP				C3063	1-164-937-11	CERAMIC CHIP	0.001UF	10%	50V
R7235	1-216-864-11	SHORT CHIP	0								
						C3065	1-136-177-00	FILM	1UF	5%	50V
******	*********	******	*******	*****	*****	C3067	1-107-820-11	CERAMIC CHIP	0.1UF		16V
						C3068	1-128-992-21	ELECT CHIP	47UF	20%	25V
	A-1115-002-A	K BOARD, COMP	PLETE			C3070		CERAMIC CHIP		10%	50V
		*******				C3071	1-136-177-00		1UF	5%	50V
						C30/1	1-130-177-00	LILIM	IOF	370	30 V
						C3072		ELECT CHIP	100UF	20%	10V
		< CAPACITOR >				C3073	1-164-936-11	CERAMIC CHIP	680PF	10%	50V
						C3074	1-163-989-11	CERAMIC CHIP	0.033UF	10%	25V
C3001	1-107-820-11	CERAMIC CHIP	0.1UF		16V	C3075	1-126-395-11	ELECT CHIP	22UF	20%	16V
C3002	1-162-964-11	CERAMIC CHIP	0.001UF	10%	50V	C3076		CERAMIC CHIP			16V
C3003		ELECT CHIP	100UF	20%	35V	65070	1 10 1 500 11	cziu imie cim	0.101		10 (
						C2077	1 165 100 11	CED A MIC CHID	0.00115		1637
C3004		ELECT CHIP	100UF	20%	16V	C3077		CERAMIC CHIP			16V
C3005	1-10/-820-11	CERAMIC CHIP	0.1UF		16V	C3078		CERAMIC CHIP			16V
						C3079	1-100-567-81	CERAMIC CHIP	10000PF	10%	25V
C3006	1-164-506-11	CERAMIC CHIP	4.7UF		16V	C3080	1-128-993-21	ELECT CHIP	22UF	20%	10V
C3007	1-107-820-11	CERAMIC CHIP	0.1UF		16V	C3081	1-107-820-11	CERAMIC CHIP	0.1UF		16V
C3008	1-117-681-11	ELECT CHIP	100UF	20%	16V						
C3009		ELECT CHIP	100UF	20%	6.3V	C3082	1-107-820-11	CERAMIC CHIP	0.1UF		16V
C3010		CERAMIC CHIP	0.1UF	2070	16V	C3082		CERAMIC CHIP			16V
C3010	1-107-620-11	CERAINIC CIII	0.101		10 V					100	
						C3084		CERAMIC CHIP		10%	25V
C3011		CERAMIC CHIP	4.7UF		16V	C3085	1-128-995-21	ELECT CHIP	100UF		10V
C3012	1-164-506-11	CERAMIC CHIP	4.7UF		16V	C3086	1-164-850-11	CERAMIC CHIP	10PF	0.50P	F 50V
C3013	1-107-820-11	CERAMIC CHIP	0.1UF		16V						
C3019	1-117-681-11	ELECT CHIP	100UF	20%	16V	C3088	1-100-567-81	CERAMIC CHIP	10000PF	10%	25V
C3020		CERAMIC CHIP	0.1UF		16V	C3090		CERAMIC CHIP			50V
C3020	1 107 020 11	CERTAINIC CITI	0.101		10 1	C3091		CERAMIC CHIP			F 50V
G2021	1 165 100 11	CED A MIC CHID	0.22115		1677						
C3021		CERAMIC CHIP	0.22UF		16V	C3094		CERAMIC CHIP			50V
C3022		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	1-164-936-11	CERAMIC CHIP	680PF	10%	50V	C3097	1-164-936-11	CERAMIC CHIP		10%	50V
-						C3099		CERAMIC CHIP			16V
C3026	1_115_330_11	CERAMIC CHIP	0.1UF	10%	50V	C3100		CERAMIC CHIP			16V
C3027	1-112-030-31		1500UF	20%	35V	C3101	1-103-128-11	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_704 502 11	PIN, CONNECTO	OR (ROAD DA	CK) 41)
C3033	1-112-237-11	CLICATION CHILF	0.101	10 /0	30 v	C143001	1-174-302-11	1 114, COMMECIO	ΣIX (DU 4 D-P}	131X) 4I	-

RM-Y

YD003	RM-YD003
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											K
REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
CN3002	1-819-443-11	HEADER ASEEN	MBLY FOR F	WB 15	——— Р	R3014	1-218-965-11	RES-CHIP	10K	5%	1/16W
CN3003	1-580-838-11	PIN, CONNECTO	OR (PC BOA	RD) 4P		R3015	1-218-941-81		100	5%	1/16W
		· DIODE ·				R3016	1-218-965-11		10K	5%	1/16W
		< DIODE >				R3017 R3019	1-218-965-11 1-218-977-11		10K 100K	5% 5%	1/16W
D3001	6-500-260-01	DIODE P6SMB3	30 AT3			R3019 R3020	1-218-965-11		100K 10K	5%	1/16W 1/16W
D3001 D3002		DIODE P6SMB3				R3020	1-218-978-11		120K	5%	1/16W
D3003		DIODE P6SMB3				10.021	1 210 770 11	ices cim	12011	570	1,1011
D3004	6-500-260-01	DIODE P6SMB3	39AT3			R3022	1-218-977-11	RES-CHIP	100K	5%	1/16W
						R3023	1-218-990-81	SHORT CHIP	0		
						R3024	1-218-965-11	RES-CHIP	10K	5%	1/16W
		< TERMINAL BO	OARD >			R3025		METAL CHIP	3.3K		1/16W
ED2001	1 527 771 21	TEDMINIAL DOA	DD CDOL	NTD.		R3026	1-208-695-11	METAL CHIP	3.3K	0.5%	1/16W
		TERMINAL BOA				R3027	1-218-965-11	DEC CHID	10K	5%	1/16W
LD3002	1-337-771-21	TERMINAL BOA	ind, dicou	ND		R3027	1-218-977-11		10K 100K	5%	1/16W 1/16W
						R3030		METAL CHIP	1K		1/16W
		< FILTER >				R3032	1-218-933-11		22	5%	1/16W
						R3033		SHORT CHIP	0		,
FL3001	1-234-177-21	FERRITE	0UH								
FL3002	1-234-177-21	FERRITE	0UH			R3034	1-218-965-11		10K	5%	1/16W
						R3035	1-218-977-11		100K	5%	1/16W
		**				R3036		SHORT CHIP	0		
		< IC >				R3037		SHORT CHIP	0	E 01	1/1/3
IC3001	6-706-862-01	IC NJM2387DL2	2_TF1			R3038	1-218-978-11	RES-CHIP	120K	5%	1/16W
IC3001		IC SN74LV08AH				R3039	1-218-977-11	RES-CHIP	100K	5%	1/16W
IC3003		IC NJM2387DL2				R3040		SHORT CHIP	0	2 70	1,1011
IC3004		IC SN74LVC541				R3041		SHORT CHIP	0		
IC3005	6-707-629-01	IC CXD9845M				R3042	1-218-990-81	SHORT CHIP	0		
						R3043	1-218-990-81	SHORT CHIP	0		
IC3006		IC CXD9788AR									
IC3007		IC MC74VHC10				R3044	1-218-965-11		10K	5%	1/16W
IC3008	0-700-203-01	IC NJM2870F18	(1E2)			R3045 R3046	1-218-990-81	SHORT CHIP	0 10K	5%	1/16W
						R3047		SHORT CHIP	0	3 70	1/10 **
		<coil></coil>				R3048		SHORT CHIP	0		
L3001		COIL,CHOKE 10				R3049	1-218-990-81	SHORT CHIP	0		
L3002		COIL,CHOKE 10				R3050		METAL CHIP	3.3	5%	1/10W
L3006	1-412-939-11	INDUCTOR	1UH			R3051	1-218-941-81		100	5%	1/16W
						R3052	1-218-941-81		100	5%	1/16W
		< IC LINK >				R3053	1-210-791-11	METAL CHIP	3.3	5%	1/10W
		< IC LINK >				R3054	1-218-941-81	RES-CHIP	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
						R3057	1-218-941-81	RES-CHIP	100	5%	1/16W
		< TRANSISTOR :	>			R3059	1-218-941-81	RES-CHIP	100	5%	1/16W
02002	0.720.602.26	TD ANGIOTOD O	00 A 1 COO E			D2060	1 210 000 01	CHOPE CHIP	0		
Q3002 Q3003		TRANSISTOR 2				R3060 R3062		SHORT CHIP METAL CHIP	0	501	1/10W
Q3003 Q3004		TRANSISTOR 2		6		R3063		METAL CHIP	2.7 2.7	5% 5%	1/10W 1/10W
Q3005		TRANSISTOR 2		20		R3064	1-218-941-81		100	5%	1/16W
Q3006		TRANSISTOR 2				R3065	1-218-965-11		10K	5%	1/16W
_											
						R3066	1-218-990-81	SHORT CHIP	0		
		< RESISTOR >				R3067		SHORT CHIP	0		
						R3070	1-218-945-11		220	5%	1/16W
R3001		SHORT CHIP	0	F.01	1/1/1	R3071	1-218-941-81		100	5%	1/16W
R3002 R3003	1-218-965-11	SHORT CHIP	10K 0	5%	1/16W	R3072	1-218-990-81	SHORT CHIP	0		
R3004		SHORT CHIP	0			R3073	1_218_990_81	SHORT CHIP	0		
R3005		SHORT CHIP	0			R3075	1-218-945-11		220	5%	1/16W
						R3076	1-218-972-11		39K	5%	1/16W
R3006	1-208-927-11	METAL CHIP	47K		1/16W	R3077		METAL CHIP	18	5%	1/10W
R3007		METAL CHIP	56K		1/16W	R3078	1-218-941-81	RES-CHIP	100	5%	1/16W
R3008		METAL CHIP	68K		1/16W					_	
R3009		METAL CHIP	4.7K		1/16W	R3079	1-218-945-11		220	5%	1/16W
R3010	1-208-699-11	METAL CHIP	4.7K	0.5%	1/16W	R3082		SHORT CHIP	0 10 V	501	1/1/1
R3011	1-218-990-81	SHORT CHIP	0			R3084 R3085	1-218-965-11	METAL CHIP	10K 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
R3013	1-218-941-81		100	5%	1/16W		>55 11			2,0	-, - 0 11
						R3088	1-218-933-11	RES-CHIP	22	5%	1/16W

RM-YD003 RM-YD003





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REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R3089	1-218-990-81	SHORT CHIP	0			C7824	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V
R3092		SHORT CHIP	0			C7825		ELECT CHIP	4.7UF	20%	50V
R3096		METAL CHIP	2.7	5%	1/10W	C7023	1 120 //0 11	ELECT CITI	4.701	2070	30 v
R3090		METAL CHIP	2.7	5%	1/10W 1/10W	C7826	1 165 310 11	CERAMIC CHIP	0.1UF		50V
K3097	1-210-790-11	METAL CHIF	2.7	370	1/10 W	C7827		ELECT CHIP	4.7UF	20%	50V
D2000	1 210 000 01	CHOPT CHIP	0								50V 50V
R3098		SHORT CHIP	0	= 01	4 14 0 7 7 7	C7828		CERAMIC CHIP	0.001UF	10%	
R3100		METAL CHIP	18	5%	1/10W	C7829		CERAMIC CHIP	0.01UF	10%	25V
R3101		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	1-216-791-11	METAL CHIP	3.3	5%	1/10W	C7831		CERAMIC CHIP	0.001UF	10%	50V
						C7832		CERAMIC CHIP	0.01UF	10%	25V
R3104	1-218-945-11	RES-CHIP	220	5%	1/16W	C7834	1-137-765-21	ELECT CHIP	47UF	20%	16V
R3105	1-218-977-11	RES-CHIP	100K	5%	1/16W	C7835	1-128-996-11	ELECT CHIP	4.7UF	20%	50V
R3106	1-218-990-81	SHORT CHIP	0			C7836	1-128-396-11	ELECT CHIP	470UF	20%	10V
R3107	1-218-989-11	RES-CHIP	1M	5%	1/16W						
R3108	1-218-941-81	RES-CHIP	100	5%	1/16W	C7837	1-164-156-11	CERAMIC CHIP	0.1UF		25V
						C7838	1-164-156-11	CERAMIC CHIP	0.1UF		25V
R3111	1-218-945-11	RES-CHIP	220	5%	1/16W	C7840	1-165-989-11	CERAMIC CHIP	10UF	10%	6.3V
R3112	1-218-945-11		220	5%	1/16W	C7841		CERAMIC CHIP	10UF	10%	6.3V
R3113		SHORT CHIP	0	2 70	1,10	C7842		CERAMIC CHIP	0.01UF	10%	25V
R3114		SHORT CHIP	0			C7012	1 102 770 11	CERC IIVII C CIIII	0.0101	1070	25 1
R3150		SHORT CHIP	0			C7843	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V
K3130	1-210-2/5-/1	SHOKI CIII	U			C7845		CERAMIC CHIP	0.1UF	1070	25V
R3151	1 216 912 11	METAL CHIP	220	5%	1/10W	C7846		ELECT CHIP	100UF	20%	10V
			0	3%	1/10W	C7847		ELECT CHIP	470UF	20%	10V 10V
R3152		SHORT CHIP									
R3153		SHORT CHIP	0			C7849	1-165-492-21	ELECT CHIP	100UF	20%	10V
R3154		SHORT CHIP	0			67050	1 165 402 21	EL ECT CIUD	100115	2001	1017
R3155	1-216-864-11	SHORT CHIP	0			C7850		ELECT CHIP	100UF	20%	10V
						C7851		CERAMIC CHIP	10UF	10%	6.3V
R3156		SHORT CHIP	0			C7852		CERAMIC CHIP	2.2UF	10%	10V
R3157	1-216-864-11	SHORT CHIP	0			C7853		CERAMIC CHIP	0.1UF		25V
R3158	1-216-864-11	SHORT CHIP	0			C7855	1-165-492-21	ELECT CHIP	100UF	20%	10V
R3159	1-216-864-11	SHORT CHIP	0								
R3164	1-218-990-81	SHORT CHIP	0			C7858	1-127-820-11	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		CERAMIC CHIP	10UF	10%	6.3V
	A-1103-580-A	OT BOARD, COM	PLETE			C7874		CERAMIC CHIP	0.1UF	10%	16V
	11 1100 000 1	********				C7875		CERAMIC CHIP	4.7UF	10%	16V
						07075	1 127 020 11	CERTIFIC CITI	, 61	1070	101
						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	1 137 765 21	ELECT CHIP	47UF	20%	16V	C7908		CERAMIC CHIP	0.1UF		25V 25V
C7800		ELECT CHIP	100UF	20%	10V 10V	C7908 C7912		CERAMIC CHIP	0.1UF		25 V 25 V
						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 MIC CHID	11.15		1037
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
07007	1 107 007 11	CED AND COM	0.1775	100	1677	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		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		CERAMIC CHIP	15PF	5%	50V
C7811	1-162-995-11	CERAMIC CHIP	0.022UF		50V	C7946	1-162-964-11	CERAMIC CHIP	0.001UF	10%	50V
C7812	1-162-970-11	CERAMIC CHIP	0.01UF	10%	25V						
C7813	1-107-826-11	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
= .			-	- /-		C7949		CERAMIC CHIP	0.001UF	10%	50V
C7815	1-107-826-11	CERAMIC CHIP	0.1UF	10%	16V	C7950		CERAMIC CHIP	0.001UF	10%	50V
C7816		CERAMIC CHIP	0.022UF	-070	50V	2,,50	/ / / / / / / / / / / / / / / / /			-010	
C7810 C7817		CERAMIC CHIP	4.7UF	10%	10V						
C7817		CERAMIC CHIP	4.7UF 4.7UF	10%	16V 16V			< CONNECTOR >			
C7818			4.70F 22UF					COMMECION >			
C/019	1-100-139-91	CERAMIC CHIP	22UF	10%	6.3V	CN17902	1 810 200 21	EEC/EDC COMME	-τις\ στιν	40D	
C7920	1 107 926 11	CED AMIC CITIE	0.1115	1001	16V			FFC/FPC CONNEC			
C7820		CERAMIC CHIP	0.1UF	10%	16V	CN /903	1-010-464-11	FFC/FPC CONNEC	CIOK (ZIF)	our	
C7821		CERAMIC CHIP	0.1UF	10%	16V						
C7823	1-100-139-91	CERAMIC CHIP	22UF	10%	6.3V						



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<u>REF. NO</u> .	PART NO.	DESCRIPTION		REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
		<diode></diode>			R7803	1-216-809-11	METAL CHIP	100	5%	1/10W
		(DIODE)			R7804		METAL CHIP	1K	5%	1/10W
D7801	9 710 066 00	DIODE SML-210V	/TT06		R7805		METAL CHIP	1K		1/10W
D7801 D7802		DIODE SML-210N			R7806		METAL CHIP	22		1/10W
					K/800	1-211-9//-11	METAL CHIF	22	0.5%	1/10 VV
D7803	8-719-066-99	DIODE SML-210V	/1186		D7007	1 210 020 11	METAL CHID	200	0.501	1/1037
					R7807		METAL CHIP	200		1/10W
					R7808		METAL CHIP	100K	5%	1/10W
		< FERRITE BEAD	>		R7809		METAL CHIP	10K	5%	1/10W
					R7810		SHORT CHIP	0		
FB7800	1-400-180-21	INDUCTOR	0UH		R7815	1-216-833-11	METAL CHIP	10K	5%	1/10W
FB7801	1-400-089-21	FERRITE	0UH							
FB7802	1-400-089-21	FERRITE	0UH		R7816	1-216-864-11	SHORT CHIP	0		
FB7803	1-400-180-21	INDUCTOR	0UH		R7817	1-216-864-11	SHORT CHIP	0		
FB7808	1-400-180-21	INDUCTOR	0UH		R7818	1-216-864-11	SHORT CHIP	0		
					R7819	1-216-837-11	METAL CHIP	22K	5%	1/10W
FB7809	1-414-226-21	FERRITE	0UH		R7820	1-216-833-11	METAL CHIP	10K	5%	1/10W
FB7810	1-414-226-21		0UH							•
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				R7825		SHORT CHIP	0	370	1/10**
FB/902	1-414-700-21	FERRITE	0UH		R7823				0.501	1/10W
ED7002	1 414 760 21	EEDDITE	OLITA				METAL CHIP	56K		,
FB7903	1-414-760-21		0UH		R7832	1-218-881-11	METAL CHIP	27K	0.5%	1/10W
FB7904	1-414-229-11		0UH							
FB7905	1-414-229-11		0UH		R7833		SHORT CHIP	0		
FB7906	1-414-229-11	FERRITE	0UH		R7835		SHORT CHIP	0		
					R7839	1-216-864-11	SHORT CHIP	0		
					R7841		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		IC NJM2846DL2-0			R7850		METAL CHIP	470	5%	1/10W
					R7851		METAL CHIP	15K	5%	1/10W
IC7803		IC MIC5235YM57	K							
IC7804	8-749-925-00	IC TK11819MTL			R7852	1-210-81/-11	METAL CHIP	470	5%	1/10W
IC7806		IC CD74HC4053M			R7853		METAL CHIP	22K	5%	1/10W
IC7807	8-759-549-01	IC SN74LV125AP	WR		R7854		SHORT CHIP	0		
IC7808	6-708-082-01	IC NJM2846DL2-0	05(TE2)		R7858	1-216-809-11	METAL CHIP	100	5%	1/10W
IC7900	8-753-238-09	IC CXD1969R-T6			R7859	1-216-833-11	METAL CHIP	10K	5%	1/10W
IC7904	8-759-649-45	IC SN74AHC1G04	4DCKR		R7860	1-216-837-11	METAL CHIP	22K	5%	1/10W
IC7906	6-706-811-01	IC TPS2091DR			R7861	1-216-833-11	METAL CHIP	10K	5%	1/10W
IC7907		IC TPS2012ADR			R7863		METAL CHIP	22K	5%	1/10W
10/70/	0 700 012 01	1C 11 5201211DK			R7864		METAL CHIP	10K	5%	1/10W
					R7865		METAL CHIP	10K	5%	1/10W
		COIL					METAL CHIP			
		<coil></coil>			R7866	1-210-827-11	METAL CHIP	3.3K	5%	1/10W
					D=0.4=		A FERRIT CITY	450	= 01	4 (4 0777
L7800	1-414-755-11		22UH		R7867		METAL CHIP	470	5%	1/10W
L7801	1-412-642-61		1.2MH		R7877		SHORT CHIP	0		
L7802	1-414-755-11	INDUCTOR	22UH		R7878		SHORT CHIP	0		
L7804	1-414-754-11		10UH		R7883	1-216-864-11	SHORT CHIP	0		
L7805	1-414-752-11	INDUCTOR	2.2UH		R7885	1-216-864-11	SHORT CHIP	0		
L7806	1-414-754-11	INDUCTOR	10UH		R7886	1-216-864-11	SHORT CHIP	0		
L7808	1-414-754-11		10UH		R7888	1-216-803-11	METAL CHIP	33	5%	1/10W
L7809	1-414-754-11		10UH		R7890	1-216-295-91	SHORT CHIP	0		•
L7810	1-414-754-11		10UH		R7891		METAL CHIP	6.8K	0.5%	1/10W
L7811	1-414-754-11		10UH		R7892		METAL CHIP	68K		1/10W
L/611	1-414-/34-11	INDUCTOR	10011		K/0/2	1-210-071-11	WILLIAL CITI	OOK	0.5 /6	1/10**
1.7012	1 414 754 11	INDLICTOR	101111		D7902	1 210 011 11	METAL CHID	470V	0.50	1/1037
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		
					R7909	1-216-864-11	SHORT CHIP	0		
Q7802	8-729-047-14	TRANSISTOR 2S	C3775							
Q7803	8-729-120-28	TRANSISTOR 2S	C1623-L5L6		R7910	1-216-797-11	METAL CHIP	10	5%	1/10W
Q7804		TRANSISTOR 2S			R7911	1-216-797-11	METAL CHIP	10	5%	1/10W
Q7805		TRANSISTOR 2S			R7912		METAL CHIP	33	5%	1/10W
Q7805 Q7806		TRANSISTOR 2S			R7913		METAL CHIP	10	5%	1/10W
2,000	5 ,27 000 22	-1.1. (SISTOR 25)			R7914		METAL CHIP	10	5%	1/10W
Q7807	8_720 120 29	TRANSISTOR 2S	C1623 I 5I 6		11//17	1 210 ///-11	LITTL CITE	10	5 /0	1,1011
Q1001	0-129-120-28	INAMOISTOR 25	C1025-L5L0		R7915	1_216 707 11	METAL CHIP	10	5%	1/10W
								10		
		DEGREE -			R7919		METAL CHIP	1K	5%	1/10W
		< RESISTOR >			R7940		METAL CHIP	10K	5%	1/10W
					R7941		METAL CHIP	10K	5%	1/10W
R7800	1-216-864-11	SHORT CHIP	0		R7952	1-216-833-11	METAL CHIP	10 K	5%	1/10W
				,						

Les composants identifies par une trame et une marque A 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 riangle are critical for safety. Replace only with part number specified.

Ne les ren	es pour la secun placer que par nt le numero spe	cal for sa Replace specified	only with pa	art num	ber	C	OT C	U S2	RM	-YD003 '1	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	0.50	PF 50V		
R7934 R7987	1-216-833-11			100K 10K	5%	1/10W 1/10W	C7182		CERAMIC CHIP	10PF		PF 50V		
R7989	1-216-845-11			100K	5%	1/10W	C7103	1 102 713 11	CERTAINIC CITI	1011	0.501	11 30 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 5	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				
		< NETWO	ORK RES	SISTOR >					PEGIGEOP					
DD7000	1 224 271 21	DEC MET	EWODIZ .	47	(100)	EV 4)			< RESISTOR >					
	1-234-371-21				(1003		R7181	1 216 901 11	METAL CHIP	22	501	1/10W		
	1-234-371-21 1-242-963-21				(100:	,	R7182		METAL CHIP	22	5% 5%	1/10W 1/10W		
	1-234-369-21				(100.	,	R7182 R7185		SHORT CHIP	0	370	1/10 vv		
	1-234-369-21				(100:		R7186		SHORT CHIP	0				
KD/904	1-234-309-21	KES, NET	WORK	10	(100.)A+)	R7187		SHORT CHIP	0				
RB7905	1-234-369-21	RES NET	WORK '	10	(100:	5X4)	17107	1-210-004-11	SHOKI CIII	U				
	1-234-369-21				(100:	/	*******	*****	****************					
	1-234-369-21				(100:	,								
	1-234-369-21				(100	,			T1 MOUNT					
RB7909	1-234-369-21	RES, NET	WORK :	10	(100:	5X4)			*****					
RB7910	1-234-369-21	RES, NET	TWORK :	10	(1003)	5X4)								
	1-234-369-21				(1003)	5X4)			< CONNECTOR :	>				
			ICTOR, NETWORK (2010X4)		/									
	1-242-963-21				(100:		CN7150	1-819-336-11	HEADER ASSEM	IBLY FOR	R PWB 3	P		
RB7916	1-234-400-21	CONDUC	CTOR, NE	ETWORK	(2010	0X4)								
DD7017	1 224 400 21	CONDLIC	TOD NI	TWODE	(201)	NV 4)			< SWITCH >					
KD/91/	1-234-400-21	CONDUC	JOK, NE	EIWOKK	(2010	JA4)			< SWITCH >					
							S7150	1-786-591-11	SWITCH, MICRO)				
		< TUNER	.>				37130	1 700 371 11	5 WITCH, MICK	,				
							********	********	******	******	******	******		
TU7800	8-597-505-00	TUNER U	JNIT, DIO	GITAL BTI	D-CA8	11Z								
									T2 MOUNT					
******	******	******	******	******	*****	******			******					
*	A-1073-391-A	A QU BOAF *******	,						CHUTTOU					
		*****	~~~~~~	****					< SWITCH >					
							S7155	1_786_501_11	SWITCH, MICRO)				
		< CAPAC	TTOR >				37133	1-760-391-11	5 WITCH, MICK	,				
		CHITIC.	11010				*******	*****	******	******	*****	*****		
C7951	1-115-156-11	CERAMIC	C CHIP	1UF		10V								
C7952	1-115-156-11	CERAMIC	C CHIP	1UF		10V			MISCELLANEO	JS				
C7953	1-164-156-11	CERAMIC	C CHIP	0.1UF		25V			******	*				
C7954	1-164-156-11	CERAMIC	C CHIP	0.1UF		25V								
		~~							A CONVERTER, PS					
		< CONNE	ECTOR >						A OPTICS UNIT BI		,			
CNITOSI	1 572 760 21	DIN CON	D IECEOI	. 4 5 6 6	(C) (D)				A OPTICS UNIT BI		SY (E42	(A10)		
	1-573-768-21)5P			A LAMP BLOCK A					
	1-818-486-11			*	,		<u> </u>	1-408-930-11	POWER SUPPLY	BLUCK				
CIN/933	1-818-483-11	TTC/PC	COMME	CION (ZIF	, our			1-576-912-11	THERMOSTAT					
		<test point=""></test>								CO)				
								1-787-333-11	D.C. FAN (SIROCCO) D.C. FAN					
			< 1531 LOIMI >					1-787-373-11						
TP7950	1-694-766-21	TERMINA	AL (ONB	OARD CO	NTAC	T)			CORD, NOISE FI	LTER WI	TH POW	/ER		
(31.2 31.10.2)														
****************								LOUDSPEAKER						
								1-830-099-21	LEAD WIRE WIT	TH CONN	ECTOR((LVDS)		
		S2 MOUN					alealeade de de de de de de de	alle alle alle alle alle alle alle alle	alcale de	ale ale ale et e et e e	ale ale als storts of	ale		
*****					*******	*******	******	******	******	******				
								ACCESSORIES &	PACKIN	JG MATI	EDIVIC			
		< CAPAC	TTOR >						**********					
		· CITIAC												

2-597-544-11 MANUAL, INSTRUCTION

KDF-E42A10/E50A10

RM-YD003 RM-YD003

25V

10% 10V

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	1
	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.
- Avoid operating the TV at temperatures below 41°F (5°C).
- 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.
	See pages 13 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.





6) 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



On 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.

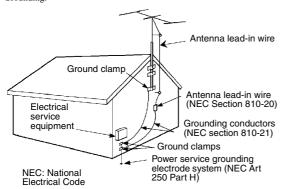
WHEN INSTALLING AN OUTDOOR ANTENNA SYSTEM, EXTREME CARE SHOULD BE TAKEN TO KEEP FROM CONTACTING SUCH POWER LINES OR CIRCUITS AS CONTACT WITH THEM IS ALMOST INVARIABLY FATAL.

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.

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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 GATE**[™]: 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.

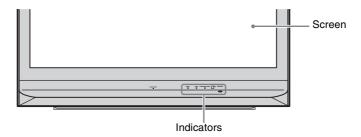
Screen

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.

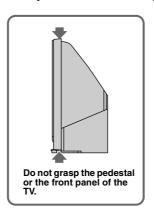
Your TV uses a projection lamp as its light source. As with any lamp, it has lifespan and needs to be replaced when the Lamp indicator flashes or the screen becomes darker. Note the following:

- 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.

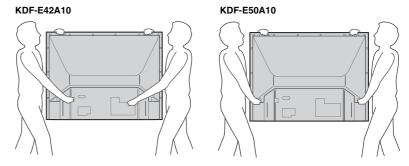
Installing the TV

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

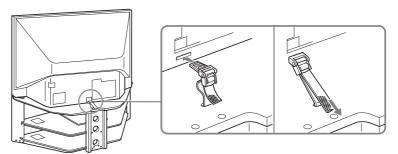
To ensure the safety of children and the TV, keep children away from the TV during installation. Climbing on or pushing the TV or its stand may cause it to fall and damage the TV.

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.

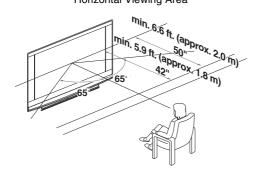
Recommended Viewing Area

Your viewing position may affect the picture quality.

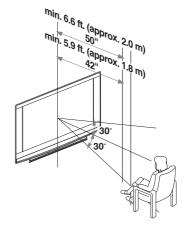
For the best picture quality, install your TV within the areas shown below.

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

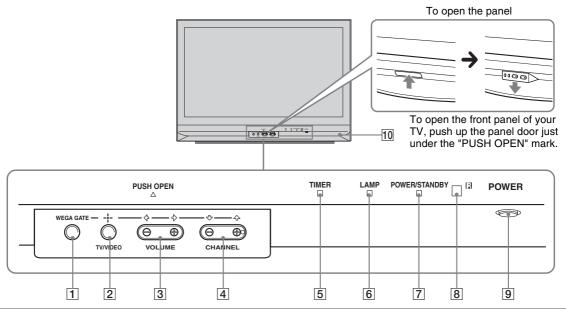


Vertical Viewing Area



TV Controls and Connectors

Front Panel

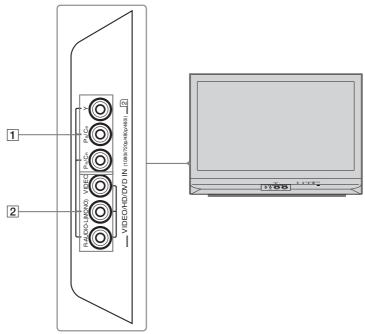


Iter	n	Description
1	WEGA GATE	Press to display WEGA GATE and activate the ¬
2	- - TV/VIDEO	Press to confirm the selection or setting. Press repeatedly to cycle through the video equipment connected to the TV's video inputs.
3	← → - VOLUME +	Press to adjust the volume.
4	↓ ↑ - CHANNEL +	Press to scan 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 Receiver	Receives IR signals from the remote control. 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.
		✓ The CHANNEL + button has a tactile dot. Use the tactile dot as a reference

when operating the TV.

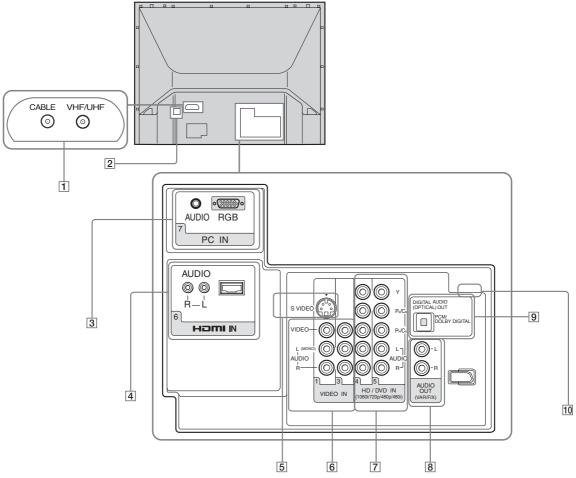
Introducing the TV

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 R	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 (YP_BP_R) 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



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

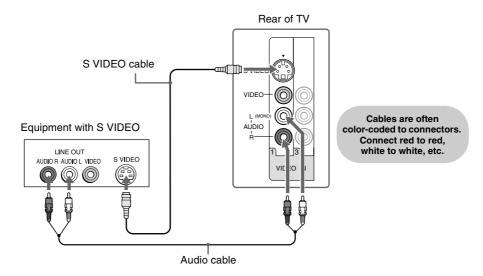
^{*} An adapter is necessary when you are connecting a DVI-equipped device to this TV (see page 20).

About Using S VIDEO



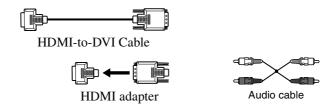
If the optional equipment you are connecting has an S VIDEO jack (shown at left), you can use an S VIDEO cable for improved picture quality (compared to an A/V cable). Because S VIDEO carries only the video signal, you also need to connect audio cables for sound, as shown below.

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	
Satellite Receiver		25
Dig	ital 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

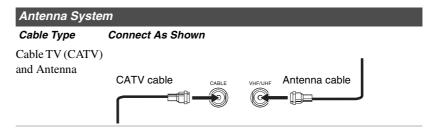
☐ See the connections described on pages 34 and 35.

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

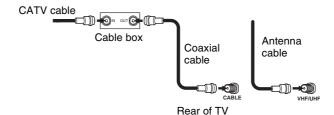
Before connecting a cable box, see "Using CableCARD Device" on page 30.

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:

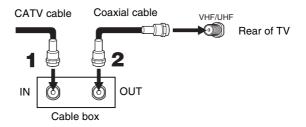
- ☐ Your cable company scrambles all channels, which requires you to use a cable box.
- ☐ You do not have a VCR. (If you have a VCR, see pages 34 and 35.)

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.



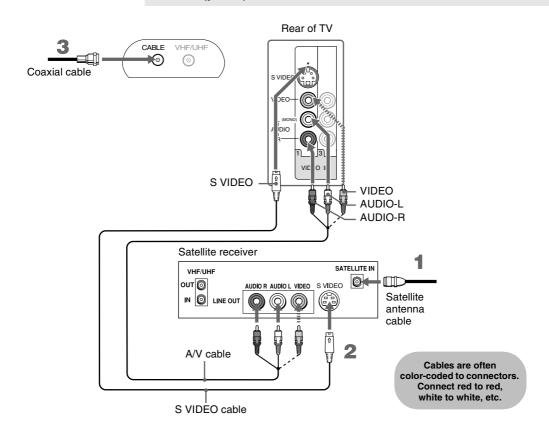
Notes on Using This Connection

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.



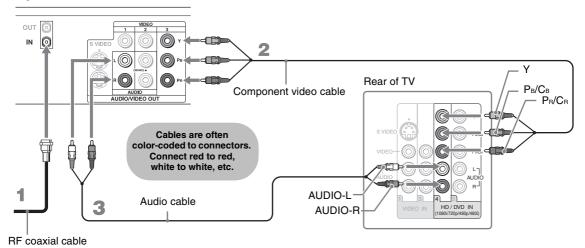
Connecting the TV

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

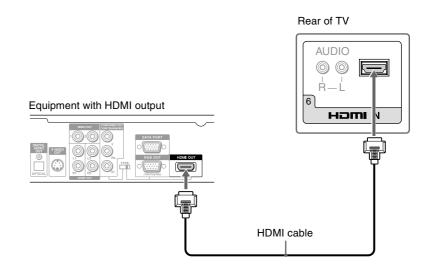
The HDMI jack provides both video and audio signals, so it is not necessary to connect an audio cable.

Use this hookup if:

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

Disconnect all power sources before making any connections.

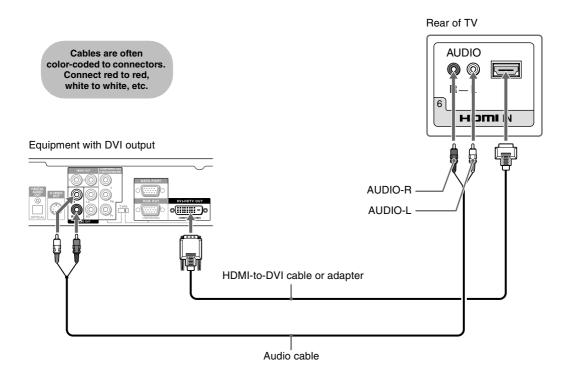
Using an HDMI cable, connect the equipment's HDMI OUT jack to the TV's HDMI IN jack.



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).



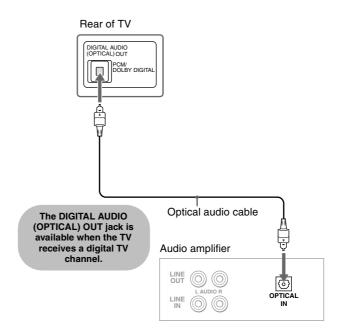
When using a HDMI-to-DVI cable or an adapter, be sure to connect the DVI output connector first; then connect to the HDMI input on your TV.

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:

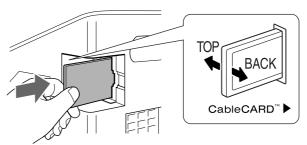
- ☐ Your cable TV company does not provide CableCARD service in your viewing area.
- You want to access your cable TV company's interactive or advanced features (such as video-on-demand or, in some cases, pay-per-view). At this time, these services require a bidirectional link, which are only available 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.



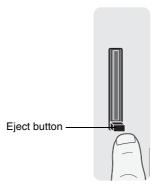
- CAUTION: When inserting the CableCARD device, the rear side of the card should face forward. Inserting the CableCARD incorrectly may result in permanent damage to the card and the TV.
- **2** Gently push the card into the slot until it locks into place.

- "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.

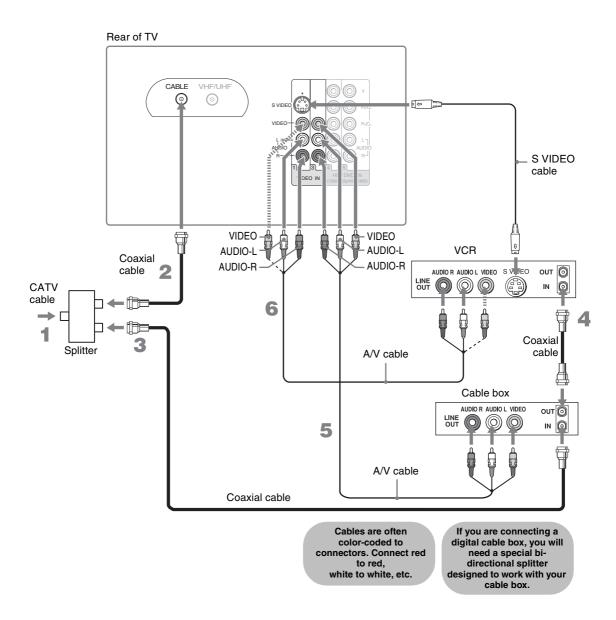
With this connection you can:

- ☐ 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



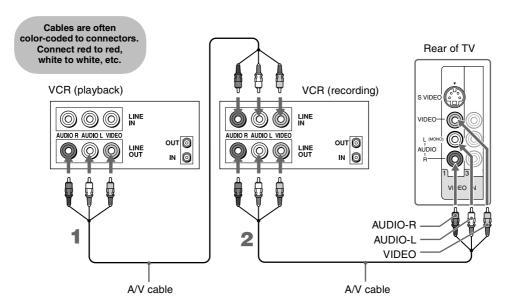
Two VCRs for Tape Editing



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
 - 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.

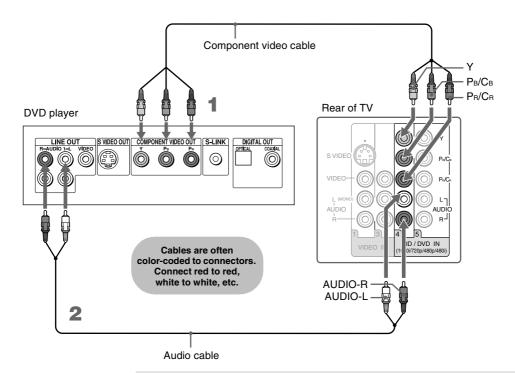
DVD Player with Component Video Connectors

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.

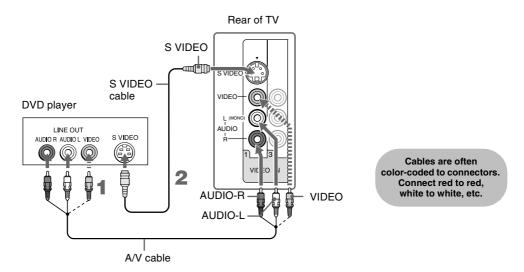
DVD Player with S VIDEO and Audio Connectors

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

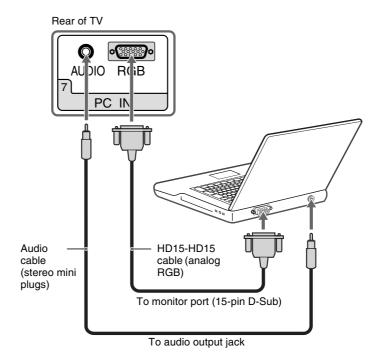
Personal Computer

- 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.

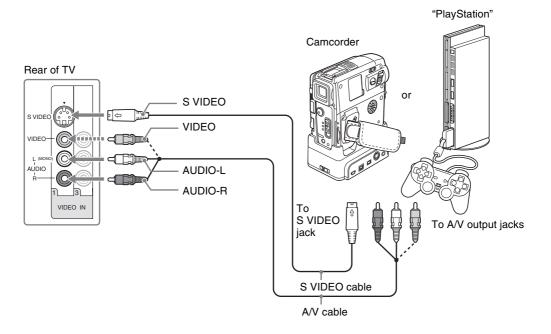
To connect a camcorder or "PlayStation" to VIDEO IN 1

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.



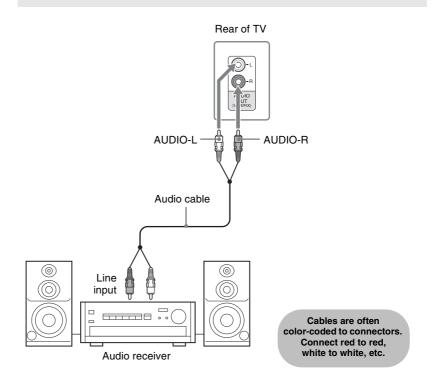
Audio Receiver

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

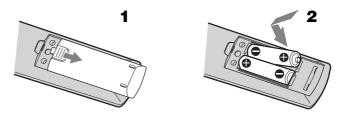
Overview

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

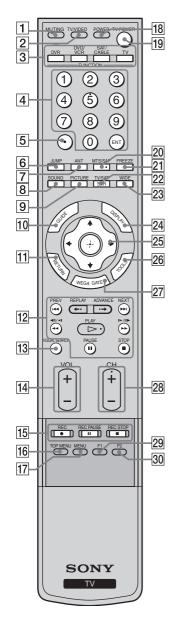
Inserting Batteries into the Remote Control

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. ■ 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.
	▶► 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 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.

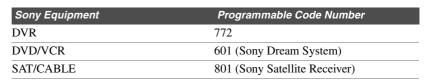
(Continued)

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.

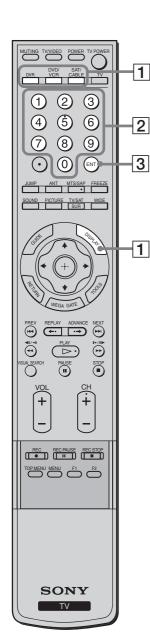
- 1 Press and hold the , , or if FUNCTION button you want to program on the remote control and press the button simultaneously. The selected FUNCTION button (DVR, DVD/VCR or SAT/CABLE) will flash.
- 2 Enter the three-digit manufacturer's code number using the ①-⑨ buttons while the button is lit. If code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

Manufacturer	Code
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	309, 335 305, 304
Minolta Mitsubishi/MGA	323, 324, 325, 326
Multitech	325, 324, 323, 320
NEC	314, 336, 337
Olympic Optimus	309, 308 327
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,
Reful 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	←
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	▶► to step forward or ► 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)

To Do This	Press
Activate the remote control to operate the DVD	DVD/VCR (FUNCTION)
Turn on/off	POWER
Select other equipment connected to the DAV	F1
Disk skip	F2
Display the top menu	TOP MENU
Display the disc menu	MENU

■ during playback
, MUTING

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

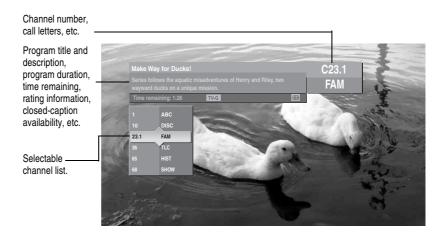
This TV comes with convenient features that can be accessed directly by pressing their buttons on your remote control.

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.

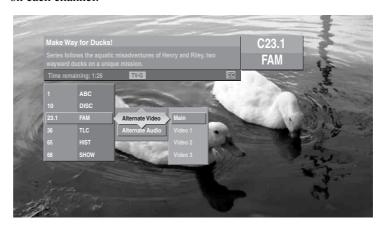


Program information in the guide is provided by the broadcasters. As a result, it may sometimes include only the channel number, without a program title or description.

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.

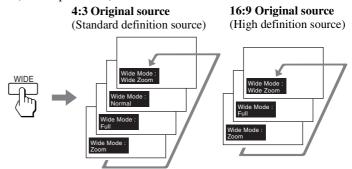
Using the Program Options Setting

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).

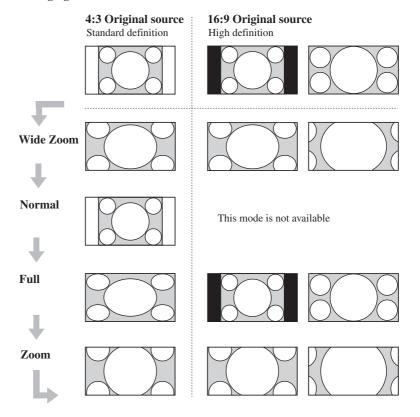
Using the WIDE Button

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



- When 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.

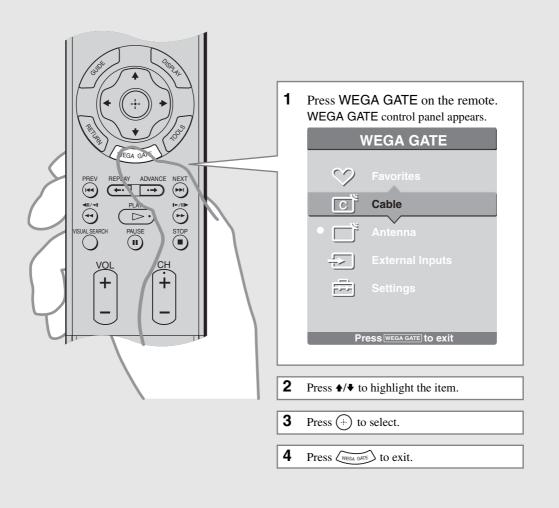
To cancel FREEZE and return to normal viewing, press the FREEZE button again.



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 weak 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 g	gives you access to the following items:
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	
C	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.
Cable	
	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.
Antenna	
	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	
Settings	The Settings feature lets you adjust the Video, Audio, Screen, Channel, Parental Lock, Setup or Applications settings. For details, see page 59.

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 \oplus . 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.

ີ່ Using 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).

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

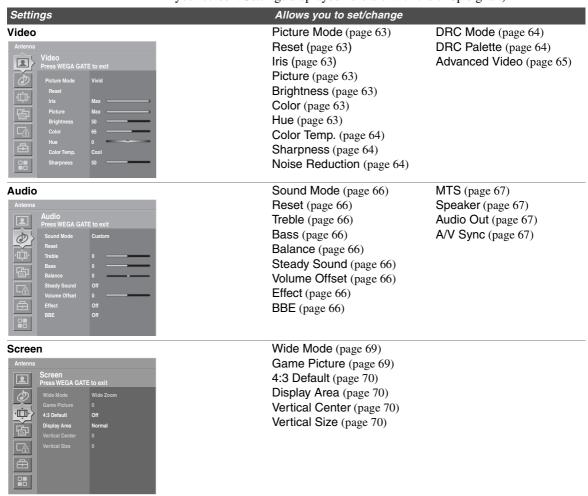
The Settings feature lets you enter to the settings screen where most of advanced settings and adjustments are performed. See "Overview" on page 61.

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.....



Video
Custom settings

Picture Made
Vivid

Reset
Iris
Max

Picture Max

Picture Max

Picture Max

Prightness 50

Color 65

Hue 0

Color Temp. Cool
Sharpness 50

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

Press \oplus to confirm the selection.

To exit the Video, press (MEGA GATE).

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:

Description	i
Vivid	Select for enhanced picture contrast and sharpness.
Standard	Select for standard picture settings. Recommended for home entertainment.
Custom	Select to display a picture with minimum enhancements.
	n alter the Video settings (Picture, Brightness, etc.) for each Mode and each video input.
indepe includi are aut allows	ay set up a "Mode" (Vivid, Standard, Custom) andently for each Video input (Video 1-Video 6, ng the Antenna input). Your "Mode" settings comatically saved after each selection. This you to customize the Mode setting for each is signal source.
	reset all settings and adjustments to the default setting dvanced Video).
Adjust the co	ontrast levels.
	rease picture contrast and deepen the color or decrease ast and soften the color.
Adjust to brig	ghten or darken the picture.
Adjust to inc	rease or decrease color intensity.
Adjust to inc	rease or decrease the green tones.
	Vivid Standard Custom You ca Color, You ma indepee includi are aut allows type of Select OK to (except for A Adjust to inc picture contr Adjust to bri Adjust to inc

Using the Settings

Option	Description	,			
Color Temp.	Choose from four color temperatures:				
White	Cool	Select to give the white colors a blue tint.			
intensity	Neutral	Select to give the white colors a neutral tint.			
adjustment	Warm 1, 2	<u> </u>			
	, _		the white colors a red tint.		
Sharpness	Adjust to sharpen or soften the picture.				
Noise 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 ATSC or Component is in use, Auto is no available.				
DRC Mode	High Density	high	ites a high-resolution picture with 4 x density, for quality sources (i.e., DVD player, satellite iver).		
	Progressive	Reco	ommended for moving pictures.		
	Off				
	∠ DRC Mode is not available when Game Mode is On or using the Freeze feature; also not available when watching 480p, 720p or 1080i sources.				
DRC Palette	Custom	sour settin	ws you to customize the level of detail (Reality) smoothness (Clarity) for up to three input ces. For example, you can create one Custom ng to optimize your cable input's picture, and te another to optimize your DVD player's picture. can switch among the three Custom settings. Press the arrow buttons to highlight Custom then press (+). The DRC palette appears. Custom Press (+) to exit Reality (25) Clarity (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		
		2	the marker $(lacktriangle)$. As you move the $lacktriangle$ higher along the Reality axis, the picture becomes more		

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, 2	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 $\bullet \bullet \bullet$.

Press 🕂 to confirm the selection.

To exit the Audio, press (NEGA GATE).

Antlenna Audio Custom settings Sound Mode Reset Treble 0 Custom Standard Custom Standard Custom Standard Custom Standard Custom Balance 0 Steady Sound Off Volume Offset 0 Effect Off BBE Off

Selecting Audio Options

- [™]Sound Mode settings are independent of settings in the Treble/Bass 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	Adjust to increase or decrease the sound level of the current i		
Offset	(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, bilingual and mono programs	Stereo	Select for stereo reception when viewing a program broadcast in stereo.	
	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.	
	The MUTING button on your remote control is available when Audio Out is set to Variable, and becomes nonfunctional when set to Fixed.		
Audio Out	This option can	be set only when the Speaker option is set to Off.	
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:

Option	Description	
Sound Mode	Dynamic	Select to enhance treble and bass.
	Standard	Suitable for spoken dialog.
	Custom	Flat setting.
Reset	Select to restore	the factory default settings.
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.	
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 can be set only when the Speaker option is set to Off.	
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.....



4. Press to select.....



or 1080i.



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

Press (+) to confirm the selection.

To exit the Screen, press (MRCA CATE).

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.	
_		e Mode setting to another, use the WIDE atrol (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 \spadesuit or \spadesuit and press $\stackrel{+}{\bigoplus}$ to choose a correction between +5 and -5.		

△ Not available in Full and Normal 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.

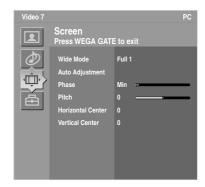
Option	Description		
4:3 Default Select the default screen mode to use for 4:3 sources.	Wide Zoom	Select to enlarge the 4:3 picture, to fill the 16:9 screen, keeping the original image as much as possible.	
	Normal	Select to return the 4:3 picture to normal mode.	
	Full	Select to enlarge the 4:3 picture 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 \spadesuit or \blacktriangledown 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 +5 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 variant	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.....



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

Press 🕂 to confirm the selection.

To exit the Channel, press (MEGA CATE).

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	Description			
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	Allows you to show or hide channels that appear in the Program Guide and when you use the CH+/- buttons to channel surf. Channels that are set to Hidden do not appear in the Program Guide or when you use the CH+/- buttons.			
	1 Press ♠ or ♥ 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.

- 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.....

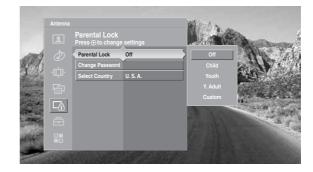


3. Highlight.....



4. Press to select.....





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

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	Off	Turn Parental Lock off. No programs are blocked from viewing.		
select a rating system	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.)

Ontion	Decerin	tion.		
Option	Descrip			
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	ed Options		
Block programs	TV-Y	All children.		
by their rating, content or both	TV-Y7	Directed to children age 7 and older.		
	TV-G	General audience.		
	TV-PG	Parental guidance suggested.		
	TV-14	Parents strongly cautioned.		
	TV-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	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.	

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 highlight an input to label, then press ⊕ to select it. 2 Use the arrow buttons to scroll through the labels. 3 Press ⊕ to select the equipment you connected to each of the input jacks on the back of your TV. Select Skip if you do not have any equipment connected to a particular input. 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) Select to switch automatically between the component video jacks (Y P _B /C _B P _R /C _R , 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.					
connected to the TV so you can identify them when using TV/VIDEO. When in this setting: 1 Press ♣ or ♣ to highlight an input to label, then press ⊕ to select it. 2 Use the arrow buttons to scroll through the labels. 3 Press ⊕ to select the equipment you connected to each of the input jacks on the back of your TV. Select Skip if you do not have any equipment connected to a particular input. 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.	Option	Description			
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.	Label Video Inputs	connected to the TV s TV/VIDEO. When in 1 Press ♠ or ♥ to h to select it. 2 Use the arrow bu 3 Press ⊕ to select the input jacks of Select Skip if yo	connected to the TV so you can identify them when using TV/VIDEO. When in this setting: 1 Press ♠ or ♥ to highlight an input to label, then press ⊕ to select it. 2 Use the arrow buttons to scroll through the labels. 3 Press ⊕ to select the equipment you connected to each of the input jacks on the back of your TV. Select Skip if you do not have any equipment connected to		
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) 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.			Video 1-6, VHS, DVD, Receiver, Satellite, Cable Box, 8mm, DTV, Game, LD, Beta, HD, DVR,		
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.		Video 7	Video 7 Video 7, PC, DVD, HD, Game, Skip		
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.		_			
(Component) 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.	Language				
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.	Video 2 (Component)	Auto	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		
Image Shift Corrects the image on your TV.		Off	jacks (VIDEO/AUDIO L(MONO)/		
•	Menu Color	Enables you to select	a specific color for the on-screen settings.		
Before adjusting After adjusting	Image Shift	Corrects the image on	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, Displays a printed version of the dialog or sound effects CC3, CC4 of a program. (Should be set to CC1 for most programs.)				
		Displays network/station informate either half or the whole screen (it	-		
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 double 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	V
	720	×	400	31.5	70	_*
SVGA	800	×	600	35.2	56	V
_	800	×	600	37.9	60	V
	800	×	600	46.9	75	V
	800	×	600	48.1	72	V
XGA**	1024	×	768	48.4	60	V
	1024	×	768	56.5	70	V
	1024	×	768	60	75	V
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 GASE).

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	You can use the Timers to program the			
	Timer 2	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 hig timer, press ❖.	1 Press ♠ or ♦ to highlight Timer 1 or Timer 2. To set the timer, press ♠.			
	To go directly to instead of p	programming Timer 1 or 2, press ressing →.			

Option	De	escription		
	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	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. Press WEGA GATE to exit the setting screen. An LED on the front panel will light, indicating the Timer has been set. Current Time You can set the current time. Press ⊕ to select Current Time. 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.		
	4			
	Cui			
	1			
	2			
	3			
Diagnostics	use	play diagnostics information about the TV. This can be ful in providing information to an authorized technician or air person.		
CableCARD		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

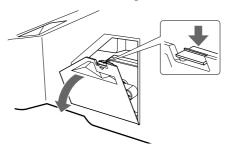
Electric appliances can cause fire or high temperature, resulting in injury or death. Be sure to follow the instructions below.

- 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

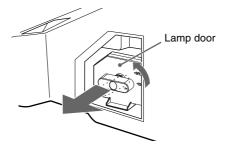
- Turn off the power on the main unit. Wait several minutes, then unplug the power cord.
 - (The cooling fan will continue to operate for about two minutes after turning the power off.)
- **2** Wait at least 30 minutes after unplugging the power cord to allow the lamp to cool down before replacing it. 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.

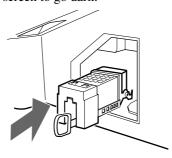


- The lamp is very hot immediately after use. Never touch the glass portion of the lamp or the surrounding parts.
- After the used lamp has cooled, place it into the empty box of the replacement lamp. Never put the used lamp into a plastic bag.

Other Information

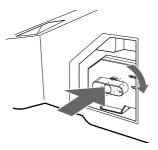
7 Put the new lamp into its place.

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	ssible 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.
۰	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 0 0 0 0	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	000	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	0	Adjust the antenna. Move the TV away from noise sources such as cars, neon signs, or hair dryers.
Double images	0	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

Possible Remedies		
 □ 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. 		
☐ 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.		
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.		
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).		
☐ 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 $(1,280 \times 720 \text{ pixels})$		
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	<u> </u>		
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	
component video input	2 (1 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	negative	
		Рв/Св: 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	
Acolo (viidilii) ce i	•	(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: $999 \times 722 \times 357$ mm ($39^{3}/8 \times 28^{1}/2 \times 14^{1}/8$ inches) KDF-E50A10: $1184 \times 827 \times 408$ mm ($46^{5}/8 \times 32^{5}/8 \times 16^{1}/8$ 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

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.

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