

JVC®

I'Art™

Color Television Users Guide

***For Model:
AV-30W476***



Illustration of AV-30W476 and RM-C1258G

Important Note:

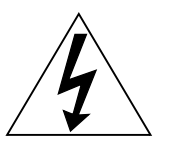
In the spaces below, enter the model and serial number of your television (located at the rear of the television cabinet). Staple your sales receipt or invoice to the inside cover of this guide. Keep this user's guide in a convenient place for future reference. Keep the carton and original packaging for future use.

Model Number: _____

Serial Number: _____

LCT1784-001A-A
1204JGI-II-IM

Important Safety Precautions

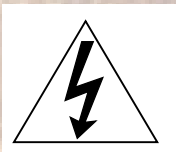


CAUTION

**RISK OF ELECTRICAL SHOCK
DO NOT OPEN**



CAUTION: To reduce the risk of electric shock. Do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.



The lightning flash with arrowhead symbol, within an equilateral triangle 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.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS TV SET TO RAIN OR MOISTURE.

CAUTION: TO INSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS UNIT.

1. Operate only from the power source specified on the unit.
2. Avoid damaging the AC plug and power cord.
3. Avoid Improper installation and never position the unit where good ventilation is unattainable.
4. Do not allow objects or liquid into the cabinet openings.
5. In the event of trouble, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

Changes or modifications not approved by JVC could void the warranty.

- When you don't use this TV set for a long period of time, be sure to disconnect both the power plug from the AC outlet and antenna for your safety.
- To prevent electric shock do not use this polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

IMPORTANT RECYCLING INFORMATION

This product utilizes both a Cathode Ray Tube (CRT) and other components that contain lead. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information, please contact your local authorities, or the Electronic Industries Alliance: <http://www.eiae.org>



- As an “ENERGY STAR®” partner, JVC has determined that this product or product model meets the “ENERGY STAR®” guidelines for energy efficiency.

Important Safeguards

CAUTION:

Please read and retain for your safety.

Electrical energy can perform many useful functions. This TV set has been engineered and manufactured to assure your personal safety. **But improper use can result in potential electrical shock or fire hazards.** In order not to defeat the safeguards incorporated in this TV set, observe the following basic rules for its installation, use and servicing. Also follow all warnings and instructions marked on your TV set.

INSTALLATION

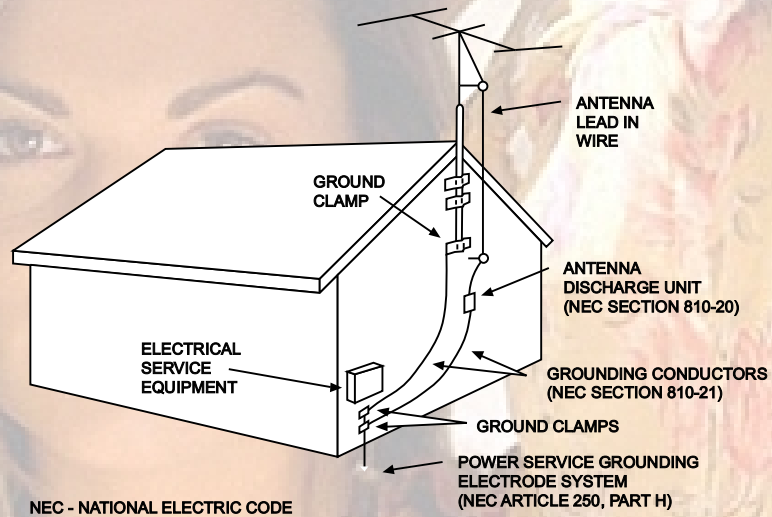
- 1 Your TV set is equipped with a polarized AC line plug (one blade of the plug is wider than the other). This safety feature allows the plug to fit into the power outlet only one way. Should you be unable to insert the plug fully into the outlet, try reversing the plug. Should it still fail to fit, contact your electrician.

(POLARIZED-TYPE)



- 2 Operate the TV set only from a power source as indicated on the TV set or refer to the operating instructions for this information. If you are not sure of the type of power supply to your home, consult your TV set dealer or local power company. For battery operation, refer to the operating instructions.
- 3 Overloaded AC outlets and extension cords are dangerous, and so are frayed power cords and broken plugs. They may result in a shock or fire hazard. Call your service technician for replacement.
- 4 Do not allow anything to rest on or roll over the power cord, and do not place the TV set where power cord is subject to traffic or abuse. This may result in a shock or fire hazard.
- 5 Do not use this TV set near water – for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near swimming pool, etc.
- 6 If an outside antenna is connected to the TV set, 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 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 requirements for the grounding electrode.

- 7 An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.



EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE

- 8 TV sets are provided with ventilation openings in the cabinet to allow heat generated during operation to be released.

Therefore:

- Never block the bottom ventilation slots of a portable TV set by placing it on a bed, sofa, rug, etc.
- Never place a TV set in a “built-in” enclosure unless proper ventilation is provided.
- Never cover the openings with a cloth or other material.
- Never place the TV set near or over a radiator or heat register.

- 9 To avoid personal injury:

- Do not place a TV set on a sloping shelf unless properly secured.
- Use only a cart or stand recommended by the TV set manufacturer.
- Do not try to roll a cart with small casters across thresholds or deep pile carpets.
- Wall or shelf mounting should follow the manufacturer’s instructions, and should use a mounting kit approved by the manufacturer.

Use

- 10 Caution children about dropping or pushing objects into the TV set through cabinet openings. Some internal parts carry hazardous voltages and contact can result in a fire or electrical shock.
- 11 Unplug the TV set from the wall outlet before cleaning. Do not use liquid or an aerosol cleaner.
- 12 Never add accessories to a TV set that has not been designed for this purpose. Such additions may result in a hazard.



PORTABLE CART WARNING (Symbol provided by RETAC)

- 13** For added protection of the TV set during a lightning storm or when the TV set is to be left unattended for an extended period of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to product due to lightning storms or power line surges.
- 14** A TV set and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the TV set and cart combination to overturn.

Service

- 15** Unplug this TV set from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - A. When the power cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the TV set.
 - C. If the TV set has been exposed to rain or water.
 - D. If the TV set does not operate normally by following the operating instructions. Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV set to normal operation.
 - E. If the TV set has been dropped or damaged in any way.
 - F. When the TV set exhibits a distinct change in performance — this indicates a need for service.
- 16** Do not attempt to service this TV set yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 17** When replacement parts are required, have the service technician verify in writing that the replacement parts he uses have the same safety characteristics as the original parts. Use of manufacturer's specified replacement parts can prevent fire, shock, or other hazards.
- 18** Upon completion of any service or repairs to this TV set, please ask the service technician to perform the safety check described in the manufacturer's service literature.
- 19** When a TV set reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the TV set.
- 20** Note to CATV system installer.
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

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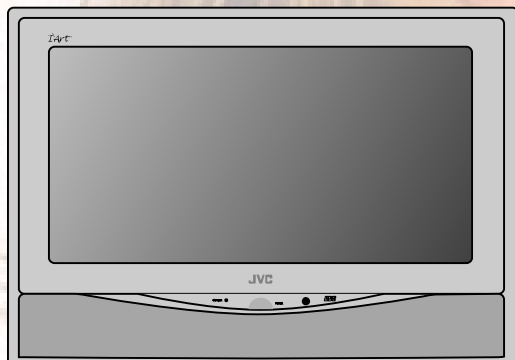
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Quick Setup

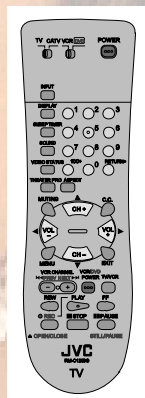
Unpacking Your TV

Thank you for your purchase of a JVC Color Television. Before you begin setting up your new television, please check to make sure you have all of the following items. In addition to this guide, your television box should include:

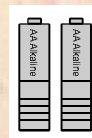
1 Television



1 Remote Control



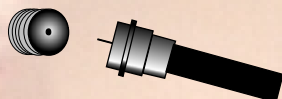
Two AA Batteries



Note: Your television and/or remote control may differ from the examples illustrated here.

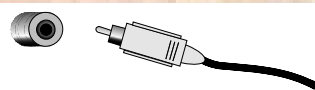
Once you have unpacked your television, the next step is to connect it to your antenna/cable or satellite system and to connect the audio/video devices you want to use with your television. To make these connections you will use plugs like the ones illustrated below.

Coaxial Cables



Used to connect an external antenna or cable TV system to your TV.

Component Cables Composite Cables Audio Cables



Used to connect audio/video devices like VCRs, DVD players, stereo amplifiers, game consoles, etc.

S-Video Cable



Used to make video connections with S-Video VCRs, Camcorders and DVD players.

We recommend that before you start using your new television, you read your entire User's Guide so you can learn about your new television's many great features. If you're anxious to start using your television right away, a quick setup guide follows on the next few pages.

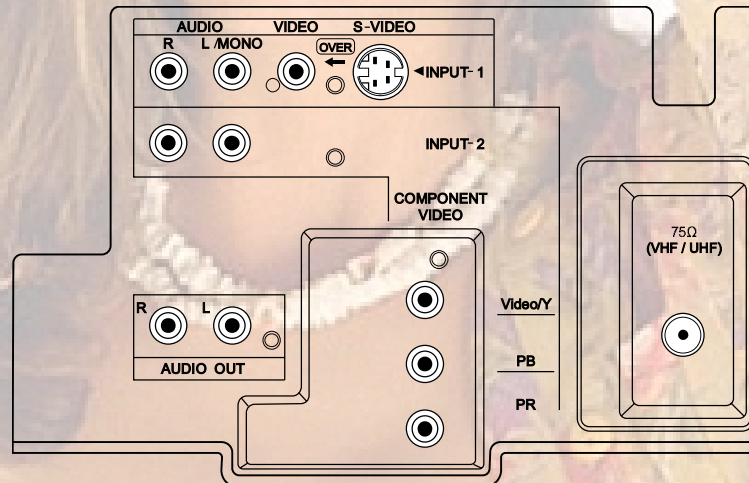
Quick Setup

TV Model

NOTE: Before you connect your television to another device, please refer to the proper diagrams for your specific TV and remote. These will help assist you in understanding how to connect your television to another device, as well as use the remote to set up your television.

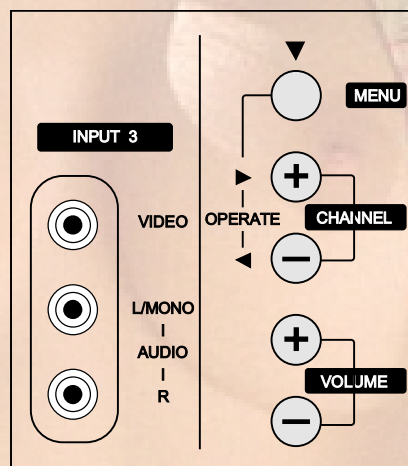
Rear Panel Diagram

MODEL:
AV-30W476

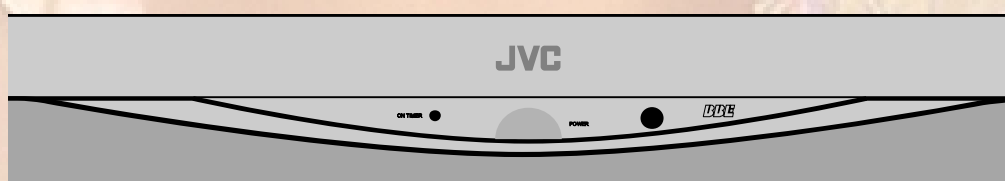


Side Panel Diagram

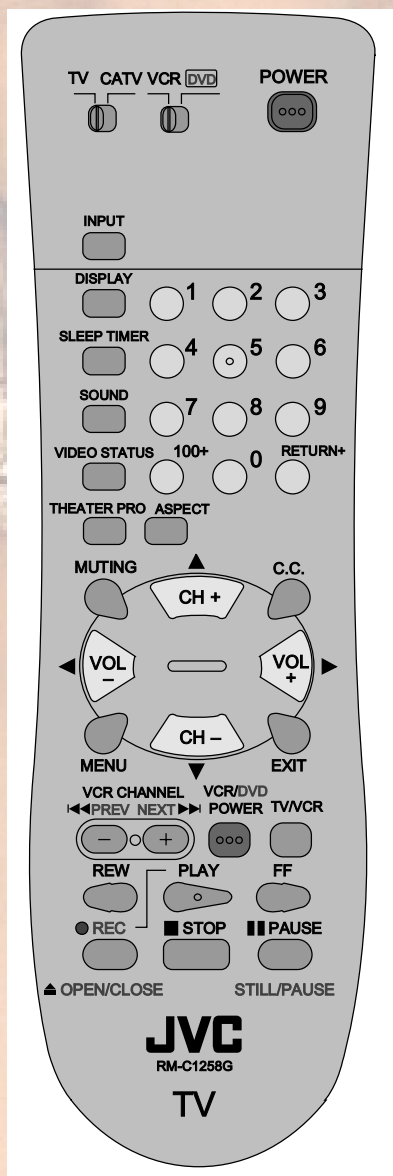
MODEL:
AV-30W476



Front Panel Diagram



MODEL: AV-30W476



RM-C1258G

**MODEL:
AV-30W476**

- For information on remote control buttons, see pages 41 - 47.

Getting Started

These quick setup pages will provide you, in three easy steps, with the basic information you need to begin using your new television right away.

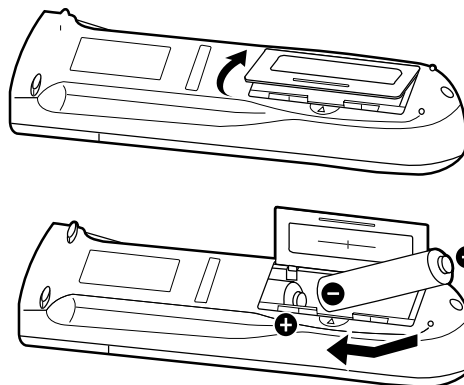
If you have questions, or for more detailed information on any of these steps, please consult other sections of this manual.

Step 1 – The Remote Control

Before you can operate your remote control, you first need to install the batteries (included).

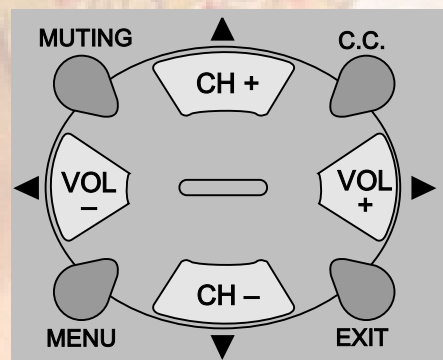
Lift and pull the latch on the back of the remote control to open. Insert two batteries (included) carefully noting the “+” and “-” markings, placing the “-” end in the unit first. Snap the cover back into place.

When you change the batteries, try to complete the task within three minutes. If you take longer than three minutes, the remote control codes for your VCR, DVD, and/or cable box/satellite receiver may have to be reset. See pages 18 - 20.



Key Feature Buttons

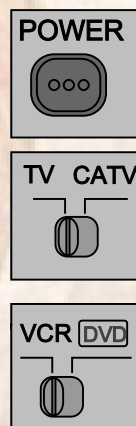
The four key feature buttons at the center of the remote can be used for basic operation of the television. The top and bottom buttons will scan forward and back through the available channels. To move rapidly through the channels using JVC's **Hyperscan** feature, press and hold CH+ or CH-. The channels will zip by at a rate of five channels per second. The right and left buttons will turn the volume up or down. These buttons are also marked with four arrows and are used with JVC's onscreen menu system. To use the onscreen menus, press the MENU button.



Basic Operation

Turn the television on and off by pressing the **POWER** button at the top right corner of the remote. If this is the first time you are turning on the TV, the interactive plug-in menu appears.

- Make sure the TV/CATV switch is set to TV. Move the switch to CATV only if you need to operate a cable box.
- Slide the VCR/DVD selector switch to VCR to control a VCR. Slide to DVD to control a DVD player. Please see pages 18 to 20 for instructions on programming your remote control to operate a cable box, VCR or DVD player.



Step 2 – Connecting Your Devices

Please follow the flow chart below to determine which connection setup is right for you. Then, refer to the appropriate diagrams to connect your television to other devices that you may have. After you are finished connecting your devices, plug the power cord into the nearest power outlet and turn on the TV.

A VCR is not necessary for operation of the television. If you follow these diagrams and the television does not work properly, contact your local cable operator.

- To connect a DVD player, see **Diagram #3**. A DVD player is optional.
- If you have a satellite television system, please refer to the satellite TV manual.

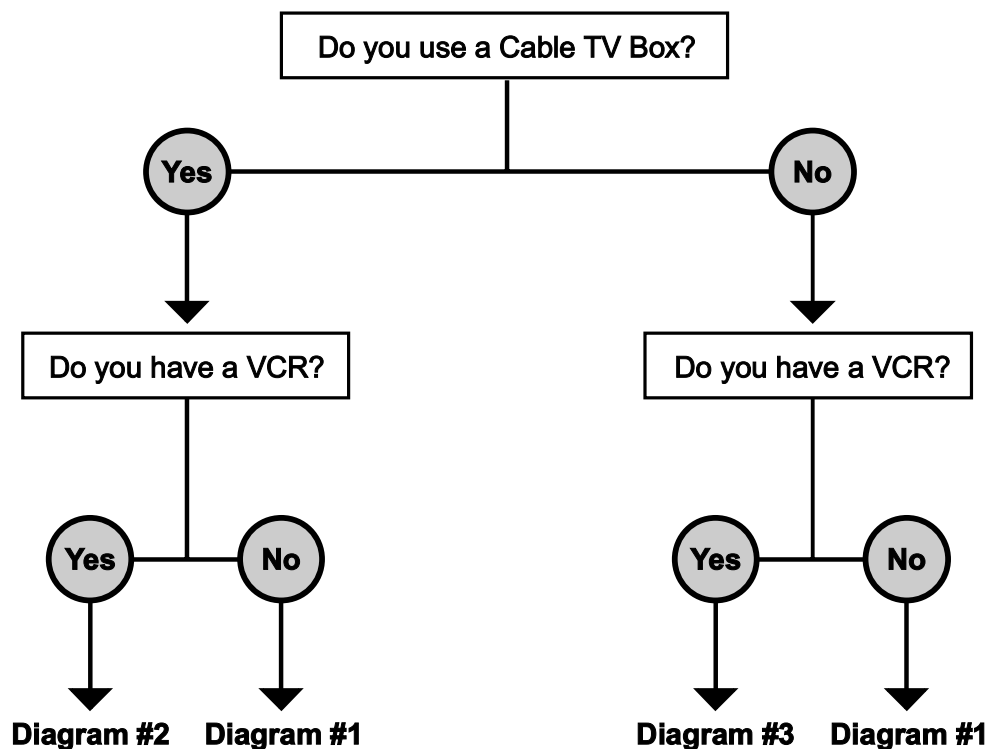
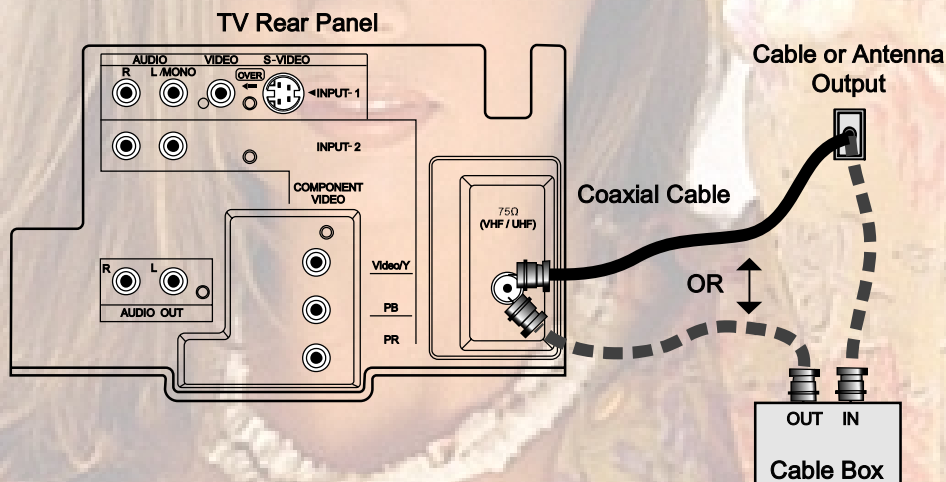


Diagram #1

Illustration of AV-30W476

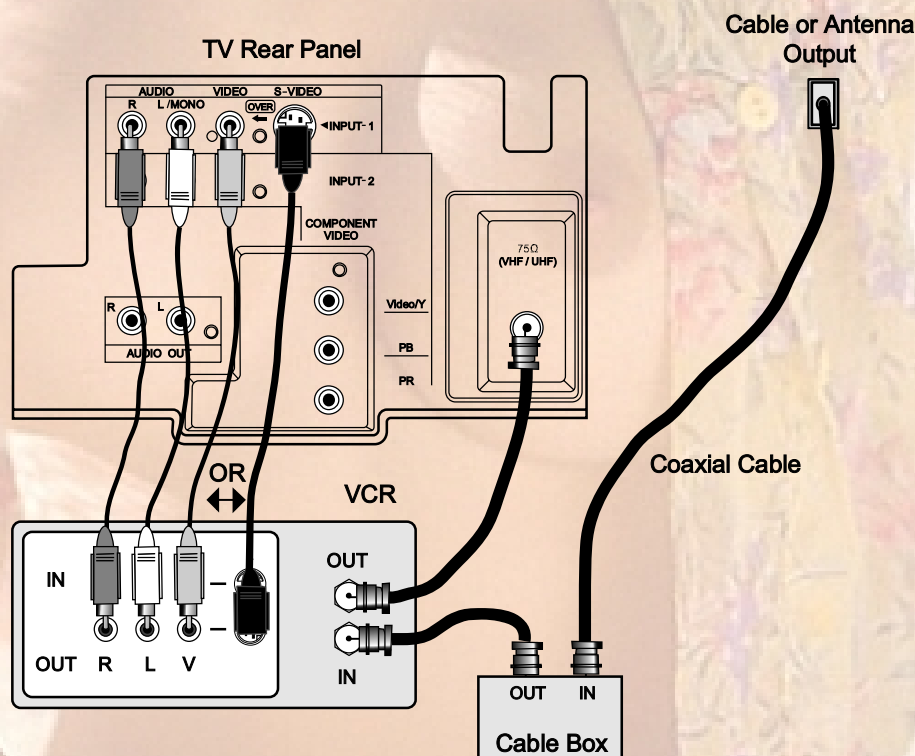


Note:

- If you do not have a cable box, connect the cable wire from the wall outlet into the back of the TV.

Diagram #2

Illustration of AV-30W476



Notes:

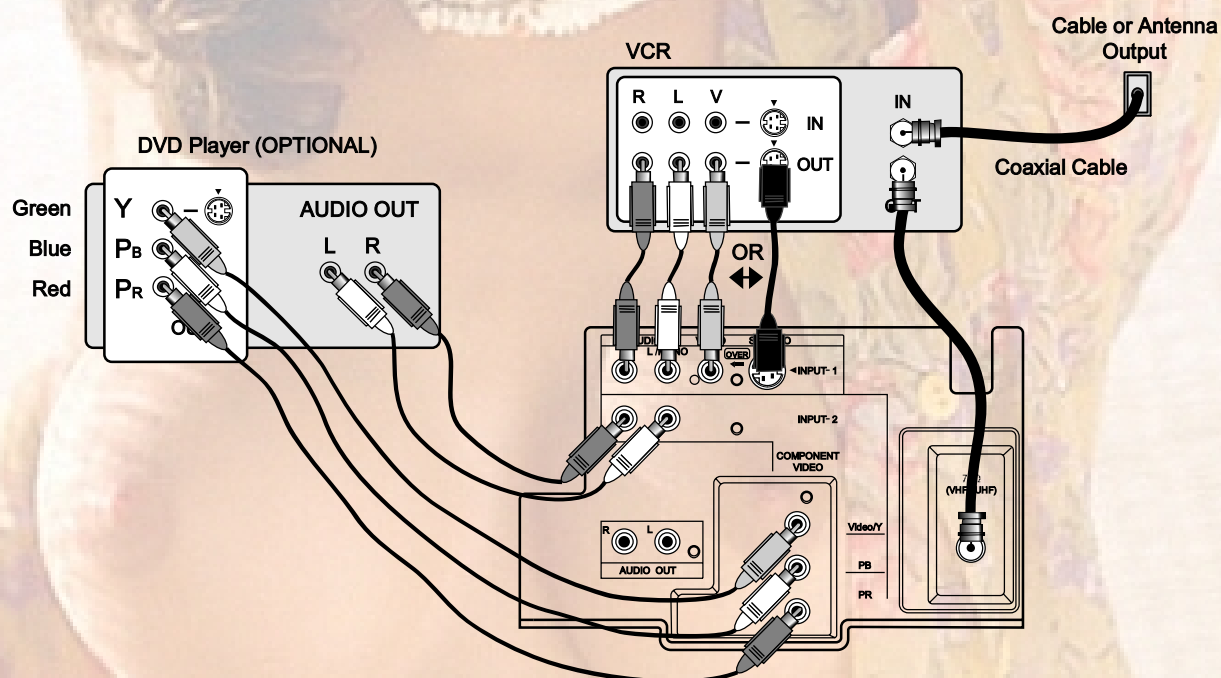
- If your VCR is a mono sound unit, it will have only one audio out jack. Connect it to the TV's LEFT AUDIO INPUT.
- Use the S-Video connection if possible for superior picture quality.
- Your VCR must be turned on to view premium cable channels.

Notes:

- Green, blue and red are the most common colors for DVD cables. Some models may vary colors. Please consult the user's manual for your DVD player for more information.
- Be careful not to confuse the red DVD cable with the red audio cable. It is best to complete one set of connections (DVD or audio output) before starting the other to avoid accidentally switching the cables.
- If you use INPUT 2 (Component-In), for a DVD connection, you must select "V2-COMPONENT" by pressing the INPUT button, for proper display of the DVD signal.
- Progressive DVD players (players with an output scan of 31.5 KHz) will not work properly with this television. Set your DVD player's output to "interlaced", or non-progressive mode.

Diagram #3

Illustration of AV-30W476



Connecting to a Camcorder

You may connect a camcorder, game console or other equipment to your television by using the side input jacks (Input 3). You can also connect these using the television's rear input jacks, using the same instructions.

Illustration of AV-30W476



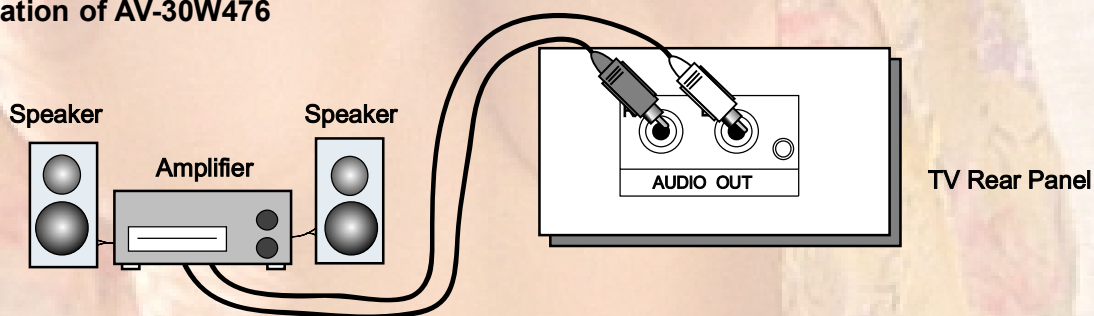
- 1) Connect a yellow composite cable from the camcorder VIDEO OUT, into the VIDEO IN on the side of the TV.
- 2) Connect a white composite cable from the camcorder LEFT AUDIO OUT, into the LEFT AUDIO IN on the side of the TV.
- 3) Connect a red composite cable from the camcorder RIGHT AUDIO OUT, into the RIGHT AUDIO IN on the side of the TV.

Note:

- If your camcorder is a mono sound model it will have only one AUDIO OUT. Connect it to the LEFT AUDIO IN.

Connecting to an External Amplifier

Illustration of AV-30W476



- 1) Connect a white composite cable from the LEFT AUDIO OUTPUT on the back of the TV to the LEFT AUDIO INPUT on the amplifier.
- 2) Connect a red composite cable from the RIGHT AUDIO OUTPUT on the back of the TV to the RIGHT AUDIO INPUT on the amplifier.

Notes:

- Refer to your amplifier's manual for more information.
- You can use AUDIO OUTPUT for your home theater system.

Step 3 – The Interactive Plug In Menu

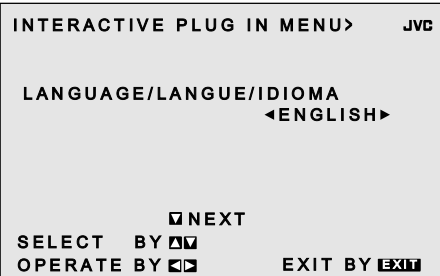
When you turn your television on for the first time the interactive plug-in menu will appear. The plug-in menu helps you to get your TV ready to use by letting you set your preferences for:

- The language in which you want the onscreen menus to appear.
- Setting the TV's clock to the correct time so your timer functions will work properly. You can choose "AUTO" or "MANUAL" for setting the clock.
- The auto tuner setup of which channels you wish to receive.

We recommend you complete the interactive plug-in items before you start using your television.

Language

After the "JVC INTERACTIVE PLUG IN MENU" has been displayed, the TV automatically switches to the LANGUAGE settings. You can choose to view your onscreen menus in three languages: English, French (Français) or Spanish (Español).



To choose a language:
(English, Français or Español)

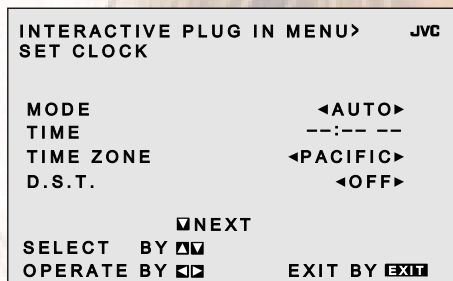


To NEXT (To set clock)

(To be continued...)

Auto Clock Set

Before you use any of your TV's timer functions, you must first set the clock. You may precisely set your clock using the XDS time signal broadcast by most public broadcasting stations. If you do not have this in your area, you will have to set the clock manually. See manual clock set below. To set the clock using the XDS signal:



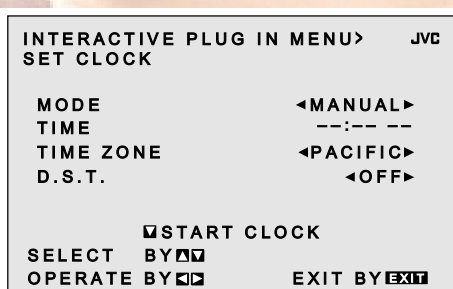
- ◀▶ To choose AUTO
- ▼ To TIME ZONE
- ◀▶ To select your time zone:
(Atlantic, Eastern, Central, Mountain, Pacific, Alaska or Hawaii)
- ▼ To move to D.S.T. (Daylight Savings Time)
- ◀▶ To turn D.S.T. ON or OFF
- ▼ To NEXT (To Auto Tuner Setup)

Notes:

- D.S.T. can be used only for US and Canada when it is set to ON in the SET CLOCK menu.
- Only when the MODE set to AUTO, the Daylight Savings Time feature automatically adjusts your TV's clock for Daylight Savings. The clock will move forward one hour at 2:00 am on the first Sunday in April. The clock will move back one hour at 2:00 am on the last Sunday in October.
- You will have to reset the clock after a power interruption. You must set the clock before operating any timer functions.

Manual Clock Set

To set your clock manually (without using the XDS signal), choose MANUAL. If you choose AUTO, see auto clock set above.



- ◀▶ To choose MANUAL
- ▼ To TIME
- ◀▶ To set the hour
- ▼ To minute
- ◀▶ To set the minute
- ▼ To START CLOCK

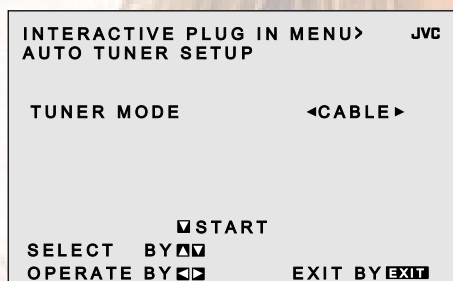
Note:

- You will have to reset the clock after a power interruption. You must set the clock before operating any timer functions.

(To be continued...)

Auto Tuner Setup

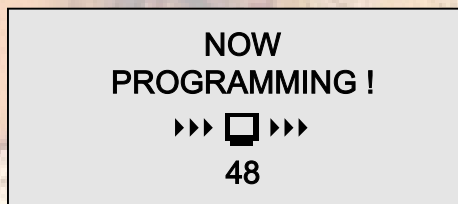
In auto tuner setup, the TV automatically scans through all available channels, memorizing the active ones and skipping over blank ones or channels with weak signals. This means when you scan (using the CHANNEL +/- buttons) you will receive only clear, active channels.



To choose CABLE or AIR (or SKIP when you skip Auto Tuner Setup)



To START



**Programming will take
approximately 1 to 2
minutes.**

When the setup is finished, THANK YOU!! SETUP IS NOW COMPLETE is displayed. Your quick setup is now complete. You can now begin watching your television, or you can continue on in this guide for more information on programming your remote control, or using the JVC onscreen menu system to customize your television viewing experience.

Notes:

- Noise muting will not work during Auto Tuner Setup.
- Skip appears only for interactive plug-in menu.
- The interactive plug-in menu setting does not appear if your TV has been turned on before. In this case, use the initial setup menu to perform these settings. See pages 32, 38 and 24.

Cable Box and Satellite Users: After your auto tuner setup is complete, you may, (depending on the type of hookup), have only 1 channel, usually 3 or 4 in the auto tuner memory. This is normal.



The Quick Setup is complete

Remote Programming

Setting the CATV, VCR and DVD Codes

You can program your remote to operate your cable box, satellite receiver, VCR or DVD player by using the instructions and codes listed below. If the equipment does not respond to any of the codes listed below or to the code search function, use the remote control supplied by the manufacturer.

Cable Box or Satellite Codes

The remote control is programmed with cable box and satellite codes for power on/off, channel up/down, and 10 key operation.

- 1) Find the cable box or satellite brand from the list of codes shown below.
 - 2) Slide the 2-way selector switch to "CATV".
 - 3) Press and hold down the DISPLAY button, then enter the first code number listed with the 10 key pad.
 - 4) Release the DISPLAY button, and confirm the operation of the cable box/satellite receiver.
- If your cable or satellite box does not respond to the first code, try the others listed. If it does not respond to any code, try the search codes function, on page 21.

Cable Box	CODES	Cable Box	CODES	Digital Satellite Systems	CODES
ABC	024	Puser	032		
Archer	032, 025	RCA	061, 070	Echostar	100, 113, 114, 115
Cableview	051, 032	Realistic	032	Express VU	100, 113
Citizen	022, 051	Regal	058, 064, 040, 041, 042, 045, 068	G.E.	106
Curtis	058, 059	Regency	034	G.I.	108
Diamond	024, 032, 025	Rembrandt	037, 032, 051, 038	Gradiente	112
Eagle	029	Samsung	051	Hitachi	104, 111
Eastern	034	Scientific Atlanta	057, 058, 059	HNS (Hughes)	104
GC Brand	032, 051	SLMark	051, 047	Panasonic	105
Gemini	022, 043	Sprucer	051, 056	Philips	102, 103
General Instrument	065, 024, 025, 026, 027, 020, 021, 022, 057, 023	Stargate	032, 051	Primestar	108
Hamlin	040, 041, 042, 045, 058, 064	Telecaption	067	Proscan	106, 109, 110
Hitachi	049, 024	Televue	047, 051	RCA	106, 109, 110
Jerrold	065, 024, 025, 026, 027, 020, 021, 022, 057, 023	Texscan	044	Sony	107
Macom	049, 050, 051, 054	Tocom	035, 036, 066	Star Choice	104, 108
Magnavox	033	Toshiba	050	Toshiba	101
Memorex	030	Unika	032, 025	Uniden	102, 103
Movietime	032, 051	Universal	022, 032		
Oak	039, 037, 048	Videoway	052		
Panasonic	055, 056, 060, 071, 073	Viewstar	029, 030		
Paragon	063	Zenith	063, 046		
Philips	028, 029, 030, 052, 053, 031, 069	Zenith/Drake Satellite	046		
Pioneer	047, 062				
Pulsar	051, 032				

Remote Programming

VCR Codes

The remote control is programmed with VCR codes for power on/off, play, stop, fast-forward, rewind, pause, record, channel up/down operation.

- 1) Find the VCR brand from the list of codes shown below.
 - 2) Slide the first 2-way selector switch to "TV" and the other 2-way selector switch to "VCR".
 - 3) Press and hold down the DISPLAY button, then enter the first code number listed with the 10 key pad.
 - 4) Release the DISPLAY button, and confirm the operation of the VCR.
- If your VCR does not respond to the first code, try the others listed. If it does not respond to any of the codes, try the search codes function on page 21.
 - After you program your remote, some VCR buttons may not work properly. If so, use the VCR's remote.
 - To record, hold down the REC button on the remote and press PLAY.

VCRs	CODES	VCRs	CODES	VCRs	CODES
Admiral	035	Marantz	003, 004, 005	Samsung	037, 060, 062, 033, 089
Aiwa	027, 032, 095	Marta	064	Samtron	089
Akai	029, 072, 073, 074	Memorex	024, 067	Sansui	003, 026, 020, 052
Audio Dynamic	003, 005	MGA	038, 040, 047, 048, 041, 042	Sanyo	063, 067, 091, 071
Bell & Howell	063, 071	Minolta	058, 045, 093	Scott	059, 060, 062, 067, 038, 040, 047, 048, 026, 020
Broksonic	020, 026, 094	Mitsubishi	038, 040, 047, 048, 041, 042, 078, 090	Sears	063, 064, 065, 066, 058, 000, 001
Canon	023, 025	Multitech	047, 027, 062	Shintom	075
CCE	043	NEC	003, 004, 005, 000	Sharp	035, 036, 080, 088
Citizen	064	Olympic	024, 023	Signature 2000	027, 035
Craig	063, 029, 064	Optimus	028, 021, 035, 064	Singer	075
Curtis Mathes	045, 024, 027, 093	Orion	026, 020	Sony	028, 029, 030, 053, 054, 055
Daewoo	043, 059, 024, 092	Panasonic	023, 024, 021, 022	SV 2000	027
DBX	003, 004, 005	Penney	024, 058, 045, 063, 003, 004, 005, 093	Sylvania	031, 023, 024, 027
Dimensia	045, 093	Pentax	058, 005, 045, 093	Symphonic	027, 081
Emerson	043, 026, 077, 061, 025, 042, 020, 076	Philco	031, 024, 027, 023, 026, 020, 043	Tashiro	064
Fisher	063, 066, 067, 065, 071, 091	Philips	031, 023, 024, 086	Tatung	003, 004, 005
Funai	027, 026, 020, 000	Pioneer	023	Teac	003, 004, 027, 005
G.E.	033, 045, 024	Proscan	045, 058, 023, 024, 031, 046, 059, 060, 033, 087, 093	Technics	021, 022, 023, 024
Go Video	037, 051, 049, 050, 089	Quasar	021, 022, 023, 024	Teknika	024, 027, 070
Goldstar	064	Radio Shack	033, 024, 063, 036, 067, 040, 027	Toshiba	059, 046, 079
Gradiente	083, 084, 081, 000, 001	RCA	033, 045, 058, 023, 024, 031, 046, 059, 060, 083, 084, 085, 087, 093	Vector Research	005
Hitachi	023, 045, 058, 027, 081, 093	Realistic	024, 063, 036, 067, 040, 027	Wards	035, 036, 067, 044, 064
Instant Replay	024, 023			Yamaha	063, 003, 004, 005
Jensen	003			Zenith	044, 082, 064, 094
JVC	000, 001, 002, 003, 004, 005				
Kenwood	003, 004, 064, 005				
LXI	027, 064, 058, 065, 066, 063, 067				
Magnavox	031, 023, 024, 086				

Remote Programming

DVD Codes

The remote control is programmed with DVD codes for power on/off, play, stop, fast-forward, rewind, previous/next chapter, tray open/close, and still/pause operation.

- 1) Find the DVD player brand from the list of codes shown below.
 - 2) Slide the first 2-way selector switch to “TV” and the other 2-way selector switch to “DVD”.
 - 3) Press and hold down the DISPLAY button, then enter the first code number listed with the 10 key pad.
 - 4) Release the DISPLAY button, and confirm the operation of the DVD player.
- If your DVD player does not respond to the first code, try the others listed. If it does not respond to any of the codes, try the search codes function on page 21.
 - After you program your remote, some DVD buttons may not work properly. If so, use the DVD player's remote.

DVD Player	CODES	DVD Player	CODES
Aiwa	043	RCA	021, 026
Apex	040	Sampo	034
Denon	020, 037	Samsung	030
Hitachi	030, 031	Sharp	028
JVC	000	Sylvania	038
Kenwood	035	Sony	024, 045, 046, 047
Konka	039		
Mitsubishi	025	Technics	020
Onkyo	041	Toshiba	023
Oritron	044	Vialta	050
Panasonic	020	Wave	042
Philips	023, 036	Yamaha	020
Pioneer	022	Zenith	027, 032
Raite	033		

Remote Programming

Search Codes

Cable/Satellite Search Codes Function

- 1) Slide the first 2-Way Mode Selector switch to CATV.
- 2) Press and hold down the POWER button, then press the RETURN+ button for more than three seconds.
- 3) Release the RETURN+ button, then release the POWER button.
- 4) Press the POWER button on the remote, and see if the cable or satellite box responds.
- 5) If there was a response, press RETURN+. The codes are now set. If there was no response, repeat Step 4. If you repeat Step 4 a total of 52 times without a response, use the remote control that came with your equipment.
- 6) Press RETURN+ to exit.



VCR/DVD Search Codes Function

- 1) Slide the first 2-way selector switch to "TV" and the other 2-way selector switch to "VCR" or "DVD".
- 2) Press and hold down the VCR or DVD POWER button, then press the RETURN+ button for more than three seconds.
- 3) Release the RETURN+ button, then release the VCR or DVD POWER button.
- 4) Press the VCR or DVD POWER button, and see if the VCR or DVD responds.
- 5) If there was a response, press RETURN+. The codes are now set. If there was no response, repeat Step 4. If you repeat Step 4 a total of 80 times for the VCR (30 times for the DVD player), and there is no response, use the remote control that came with your equipment.
- 6) Press RETURN+ to exit.

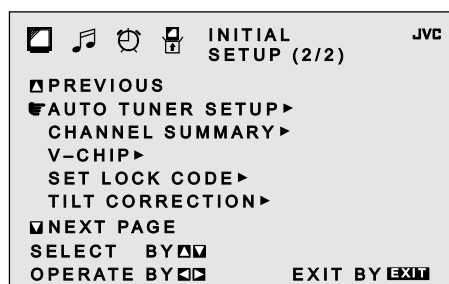
Onscreen Menus

Using the Guide

Certain symbols are used throughout this guide to help you learn about the features of your new television. The ones you will see most frequently are:

- ▲▼ Up and Down arrows mean press the CH+ or CH– buttons. Pressing the CH+ or CH– buttons let you:
 - Move vertically in a main menu screen
 - Move through a submenu screen
 - Move to the next letter, number, or other choice in a submenu
 - Back up to correct an error
 - Scan through TV channels (when not in a menu screen)
- ◀▶ Left and right arrows mean press the VOLUME+ or VOLUME– buttons to move left or right to:
 - Select a highlighted menu item
 - Select an item in a submenu
 - Select numbers in certain menu options
 - Turn the volume up or down (when not in a menu screen)
-  The “press button” icon means you should press the button named on your remote control. (Button names appear in SMALL CAPITAL LETTERS.)
-  The “helping hand” icon points to the highlighted or selected item in a menu.

To bring up the onscreen menu, press the MENU button on the remote control. The item that appears in yellow is the one currently selected. If you press the MENU button again, the onscreen display will skip to the next menu screen. If you use the Menu button on the TV's side panel instead of the remote, an additional menu screen showing input, video status mode and aspect mode will appear. The “interactive plug-in menu” will appear the first time the TV is plugged in.



Notes:

- Menus shown in this book are illustrations, not exact replications of the television's onscreen displays.
- If you do not press any buttons for a few seconds, the onscreen menu will automatically shut off.

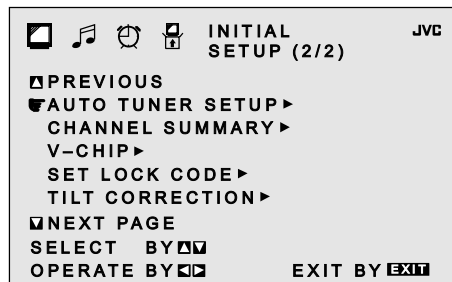
Onscreen Menus

The Onscreen Menu System

Your television comes with JVC's onscreen menu system. The onscreen menus let you make adjustments to your television's operation simply and quickly. Examples of the Onscreen Menus are shown below. Detailed explanations on using each menu follow later in this guide. For information about the interactive plug-in Menu, see pages 15 - 17.



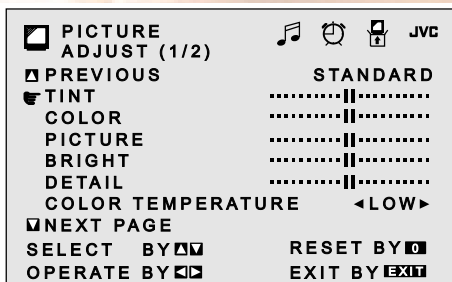
Press the MENU button



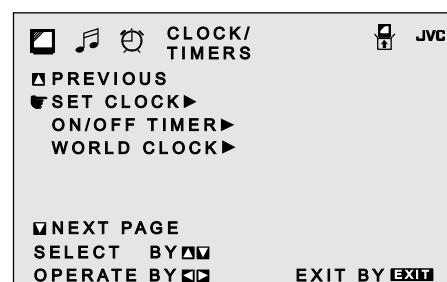
INITIAL SETUP 02



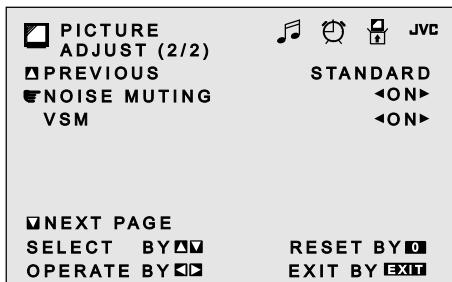
INITIAL SETUP 01



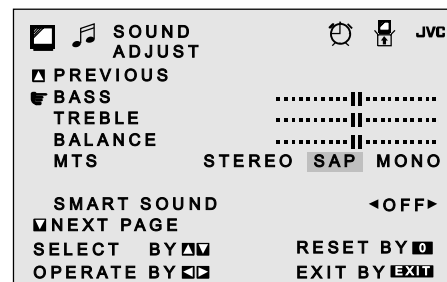
PICTURE ADJUST 01



CLOCK/TIMERS



PICTURE ADJUST 02



SOUND ADJUST

Initial Setup

Auto Tuner Setup

The auto tuner setup function is described on page 17 as the interactive plug-in menu. If you need to run the auto tuner setup again, follow the steps below.



Press the MENU button



To AUTO TUNER SETUP



To operate



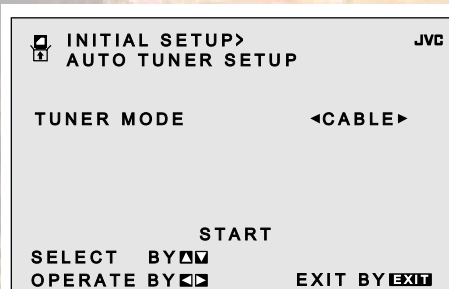
To choose CABLE or AIR



To move to START



To start Auto Tuner Setup



Programming will take approximately 1 to 2 minutes. The auto tuner is finished when the message **PROGRAMMING OVER!** appears onscreen.

Channel Summary

Channel summary allows you to customize the line-up of channels received by your TV. You can add or delete channels from the line-up or prevent any unauthorized viewers from watching any or all 181 channels.



Press the MENU button



To CHANNEL SUMMARY



To operate

The Channel summary screen will now be displayed with the channels set to scan marked with an "✓". You can delete channels from the scan by removing the "✓". If any channels were missed during auto tuner setup and you wish to add them, you may by placing an "✓" next to the channel number.



To the SCAN column



To include or delete from scan



To the ID column



To add channel label



To insert letter



To next letter



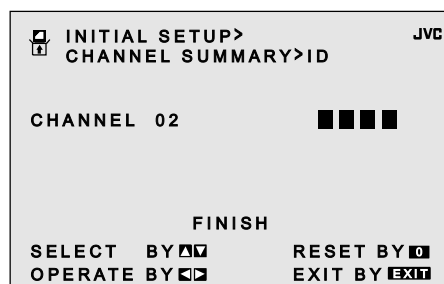
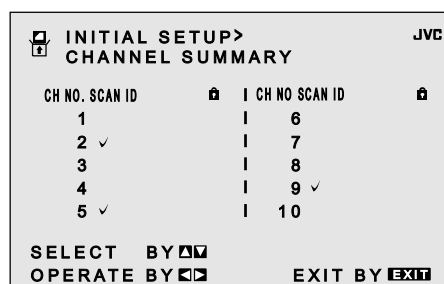
To move to FINISH when label is complete



To memorize the label



Press the EXIT button when finished



You can block access to a channel by activating the channel lock.



Press the MENU button



To CHANNEL SUMMARY



To operate



To the Lock Column ()



Press the ZERO button to lock or unlock that channel



Press the EXIT button when finished

Initial Setup

Channel Guard Message

When a viewer attempts to watch a guarded channel, the following message appears:

To watch a channel that you have locked, enter the Lock Code using the 10 key pad.

If the wrong code is entered, the message "INVALID LOCK CODE!" will flash on the screen.

The channel cannot be accessed until the correct code is entered.

THIS CHANNEL IS LOCKED BY
CHANNEL GUARD.
PLEASE ENTER LOCK CODE BY
10 KEY PAD TO UNLOCK IT.

NO. - - - -

Notes:

- Once a channel has been unlocked, it will remain unlocked until the television is turned off.
- See also "Set Lock Code", page 31.

V-Chip

Your TV is equipped with V-Chip technology which enables you to block channels or content that you feel to be inappropriate for children, based on US and Canada rating guidelines. V-Chip has no effect on video signals from a DVD discs, VCR tapes or Camcorder connection.

Note: Some programs, and movies are broadcast without a ratings signal. Even if you set up V-CHIP ratings limits, these programs will not be blocked. See page 26 for information on how to block unrated programs.

Note (for Canadian viewers): The V-Chip function is based on specifications designed for the United States and therefore may not work properly in Canada.

You can customize the V-Chip settings of your television to match your personal tastes. The V-Chip menu below is the starting point for your V-Chip settings

You can use US V-Chip settings (for programming broadcast from the United States), Canadian V-Chip settings (for programming broadcast from Canada), and movie ratings. You may use any or all of the settings (US V-Chip, Canada V-Chip, Movie ratings). Descriptions for setting each of the three V-Chip formats appear in the next six pages along with descriptions of the rating categories.

To access the rating categories:



Press the MENU button



To V-CHIP



To operate (Lock icon  will appear)



Press ZERO to access the V-Chip menu



To turn V-Chip ON or OFF (V-Chip must be turned ON for rating settings to operate)



To move to SET US TV RATINGS, SET MOVIE RATINGS, or SET CANADIAN RATINGS (see following pages for descriptions of each item)



Initial Setup

Unrated Programs

Unrated programming refers to any programming which does not contain a rating signal. Programming on television stations which do not broadcast rating signals will be placed in the "Unrated Programming" category.

Examples of Unrated programs:

- Emergency Bulletins
- News
- Public Service Announcements
- Sports
- Some Commercials
- Locally Originated Programming
- Political Programs
- Religious Programs
- Weather

Note:

- TV programs or movies that do not have rating signals will be blocked if the unrated category is set to BLOCK.

Directions to Block Unrated Programs

You can block programs that are not rated.




Press the MENU button



To V-CHIP



To operate (The lock icon  appears)



Press ZERO to access V-Chip setup options



To UNRATED



To VIEW or BLOCK



Press EXIT when done

```

INITIAL SETUP>
V-CHIP
V-CHIP <OFF>
SET US TV RATINGS>
SET MOVIE RATINGS>
SET CANADIAN RATINGS ENG>
SET CANADIAN RATINGS FRE>
UNRATED <VIEW>

FINISH
SELECT BY [up/down]
OPERATE BY [left/right] EXIT BY EXIT
```

Initial Setup

US V-Chip Ratings

U.S. PARENTAL RATING SYSTEMS

Programs with the following ratings are appropriate for children.

☐ **TV Y is Appropriate for All Children**

Programs are created for very young viewers and should be suitable for all ages, including children ages 2 - 6.

☐ **TV Y7 is for Older Children**

Most parents would find such programs suitable for children 7 and above. These programs may contain some mild fantasy violence or comedic violence, which children should be able to discern from reality.

Programs with the following ratings are designed for the entire audience.

☐ **TV G stands for General Audience**

Most parents would find these programs suitable for all age groups. They contain little or no violence, no strong language, and little or no sexual dialog or situations.

☐ **TV PG Parental Guidance Suggested**

May contain some, but not much, strong language, limited violence, and some suggestive sexual dialog or situations. It is recommended that parents watch these programs first, or with their children.

☐ **TV 14 Parents Strongly Cautioned**

Programs contain some material that may be unsuitable for children under the age of 14 including possible intense violence, sexual situations, strong coarse language, or intensely suggestive dialog. Parents are cautioned against unattended viewing by children under 14.

☐ **TV MA Mature Audiences Only**

These programs are specifically for adults and may be unsuitable for anyone under 17 years of age. TV MA programs may have extensive V, S, L, or D.









Viewing Guidelines

In addition to the ratings categories explained above, information on specific kinds of content are also supplied with the V-Chip rating. These types of content may also be blocked. The content types are:

- **V/FV** is for VIOLENCE/FANTASY VIOLENCE
- **S** stands for SEXUAL CONTENT
- **L** stands for strong LANGUAGE
- **D** stands for suggestive DIALOG






Initial Setup

Setting US V-Chip Ratings






-  Press the MENU button
-  To V-CHIP
-  To operate (lock icon  appears)
-  Press ZERO to access the V-Chip menu
-  To turn V-Chip ON or OFF
-  To move to SET US TV RATINGS
-  To operate





Directions to set US V-Chip Ratings

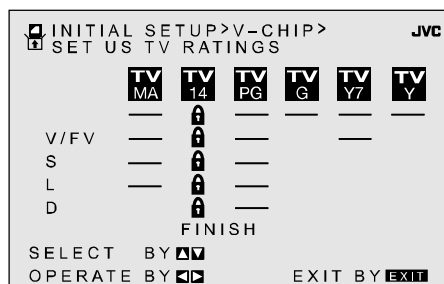
Line up the cursor in the column (TV PG, TV G, etc.) with the content row (V/FV, S, etc.) and press the  or  to move the cursor to the correct location. Press  or  to turn the locking feature on or off. An item is locked if the  icon appears instead of a “—”.

For example. To block viewing of all TV 14 shows, move the cursor to the top row of that column and add a lock icon. Once you've put a lock on the top row, everything in that column is automatically locked.

-  To the TV 14 Column
-  To turn on the lock
-  To FINISH
-  To save settings and exit
-  Press the EXIT button when finished

Note:

- If you want to change the setup, move the cursor to the top column and change the lock icon to “—” by pressing  or  again. You may then select individual categories to block.



Initial Setup

Movies Ratings

☐ NR – Not Rated

This is a film which has no rating. In many cases these films were imported from countries which do not use the MPAA ratings system. Other NR films may be from amateur producers who didn't intend to have their film widely released.

NR (Not Rated) Programming may contain all types of programming including children's programming, foreign programs, or adult material.

☐ G – General Audience

In the opinion of the review board, these films contain nothing in the way of sexual content, violence, or language that would be unsuitable for audiences of any age.

☐ PG – Parental Guidance

Parental Guidance means the movie may contain some contents such as mild violence, some brief nudity, and strong language. The contents are not deemed intense.

☐ PG-13 – Parents Strongly Cautioned

Parents with children under 13 are cautioned that the content of movies with this rating may include more explicit sexual, language, and violence content than movies rated PG.

☐ R – Restricted

These films contain material that is explicit in nature and is not recommended for unsupervised children under the age of 17.

☐ NC-17 – No One Under 17

These movies contain content which most parents would feel is too adult for their children to view. Content can consist of strong language, nudity, violence, and suggestive or explicit subject matter.

☐ X – No One under 18

Inappropriate material for anyone under 18.

Directions to set Movie (MPAA) Ratings




Press the MENU button



To V-CHIP



To operate (Lock icon  appears)



Press ZERO to access V-Chip setup options



To SET MOVIE RATINGS



To enter movies menu

For example:

To block viewing of X and NC-17 rated from shows:



To the X Column



To turn on the lock



To the NC-17 Column



To turn on the lock



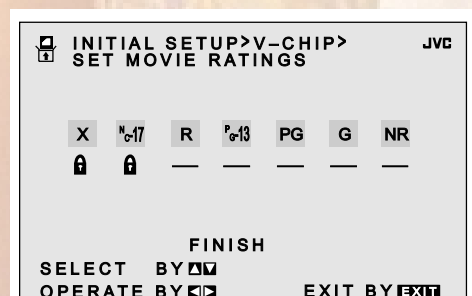
To FINISH



To save settings and exit



Press the EXIT button when finished



Initial Setup

Canadian V-Chip Ratings

- ☐ **E – Exempt**
Exempt programming includes: news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.
- ☐ **C – Programming Intended for Children**
Violence Guidelines: There will be no realistic scenes of violence. Depictions of aggressive behavior will be infrequent and limited to portrayals that are clearly imaginary, comedic or unrealistic in nature.
- ☐ **C8+ – Programming Intended for Children 8 and Over**
Violence Guidelines: Any realistic depictions of violence will be infrequent, discreet, of low intensity and will show the consequences of the acts. There will be no offensive language, nudity or sexual content.
- ☐ **G – General Audience**
Programming will contain little violence and will be sensitive to themes which could affect younger children.
- ☐ **PG – Parental Guidance**
Programming intended for a general audience, but which may not be suitable for younger children. Parents may consider some content not appropriate for children aged 8-13.
- ☐ **14+ – 14 Years and Older**
Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens. Programming may contain mature themes and scenes of intense violence.
- ☐ **18+ – Adult**
Material intended for mature audiences only.

Directions to set Canadian V-Chip Ratings



Press the MENU button



To V-CHIP



To operate (lock icon  appears)



Press ZERO to access V-Chip setup options



To SET CANADIAN RATINGS ENG (for English)



To enter ratings menu

For example:

To block viewing of programming rated 14+ and 18+:



To the 18+ Column



To turn on the lock



To the 14+ Column



To turn on the lock



To FINISH



To save settings and exit



Press the EXIT button when finished



Note:

- For instructions on “SET CANADIAN RATINGS FRE (in French)”, please see page 30 in the French side of this user’s guide.

Initial Setup

Set Lock Code

Channel guard and V-Chip settings are protected by a four-digit lock code. Your TV comes preset with a lock code of "0000". You may change the code to any four-digit number you wish. To change the lock code, follow the steps below.




Press the MENU button



To SET LOCK CODE



To operate (lock icon  appears)



Press ZERO to access the lock code

The first digit will be highlighted



To select the number



To move to the next digit

Continue to follow these directions for all four numbers



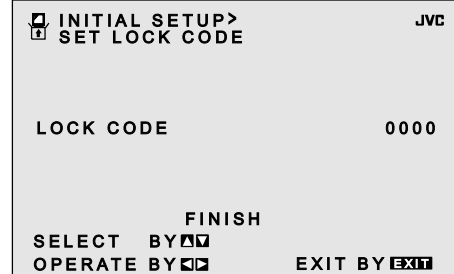
To FINISH



To save settings and exit
(your lock code is now set)



Press the EXIT button when finished



When a viewer attempts to watch a blocked channel, this message appears:

THIS PROGRAMMING EXCEEDS
YOUR RATING LIMITS.
PLEASE ENTER LOCK CODE BY
10 KEY PAD TO UNLOCK IT.
NO. ----

The channel will remain blocked until the correct lock code is entered (see above for information on setting your lock code).

Notes:

- After a power interruption you must reset the lock code.
- Write your lock code number down and keep it hidden from potential viewers.
- If you forget the lock code, a new code may be set using the steps listed above.

Initial Setup

Tilt Correction

This adjusts the pictures so that it looks even on the screen and not lopsided.



Press the MENU button



To TILT CORRECTION



To enter



To adjust TILT CORRECTION.

TILT

.....|.....

Language

The language function is described on page 15 as the interactive plug-in menu. If you need to choose the language again, follow the steps below.



Press the MENU button



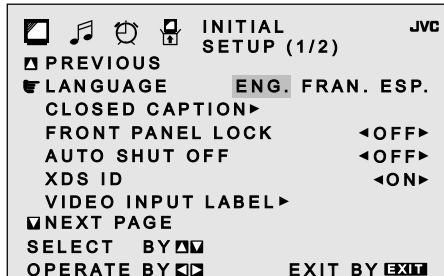
To LANGUAGE



To choose a language: ENG. (English), FRAN. (French) or ESP. (Spanish)



Press the EXIT button when finished



Closed Caption

Many broadcasts now include an onscreen display of dialog called closed captions. Some broadcasts may also include displays of additional information in text form. Your television can access and display this information using the closed caption feature. To activate the closed caption feature, follow the steps below.



Press the MENU button



To CLOSED CAPTION



To operate



To select CAPTION or TEXT



To select a caption (CC1 to CC4) or text channel (T1 to T4)



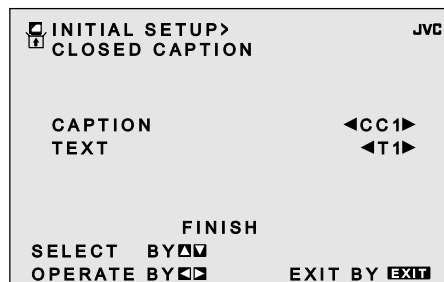
To accept that selection and move to FINISH



To save settings and exit



Press the EXIT button when finished



Notes:

- Closed caption subtitles are usually found on closed caption channel CC1. Some programs may include additional text information which is usually found on text channel T1. The other channels are available for future use.
- Closed captioning may not work correctly if the signal being received is weak or if you are playing a video tape.
- Most broadcasts containing closed captioning will display a notice at the start of the program.
- To select the mode, press the C.C. button. See page 44.

Initial Setup

Front Panel Lock

This allows you to lock the keys on the side of the TV, so that a child may not accidentally change your viewing preferences.



Press the MENU button



To FRONT PANEL LOCK



To turn ON or OFF



Press the EXIT button when finished

You can turn off this feature in the following ways:

- Unplug the power cord, and plug it back in. Do this if your batteries die, or you lose your remote control.
- Use the remote control.
- Press the MENU button on the side of the TV for more than 3 seconds. In this case, the OSD for FRONT PANEL LOCK will appear.

Note:

- To turn ON/OFF the TV, press the power button on the front of the TV for more than 3 seconds. This feature will remain ON.

Auto Shut Off

This function automatically shuts off your TV when there is no signal from the channel the TV is on.



Press the MENU button



To AUTO SHUT OFF



To turn ON or OFF



Press the EXIT button when finished

- If the channel that you have on does not receive a signal for more than one minute, the blinking text "NOT RECEIVING A SIGNAL AUTO SHUT OFF IN 9 MIN." appears on the screen, and starts the countdown. If no signal is being received within 10 minutes, the TV shuts itself off.

XDS ID

XDS ID Display provides a channel's call letters, the network's name, and even a program name. The XDS ID information is provided by the broadcaster.



Press the MENU button



To XDS ID



To turn ON or OFF



Press the EXIT button when finished

Initial Setup

Video Input Label

This function is used to label video input connections for the onscreen displays.



Press the MENU button



To VIDEO INPUT LABEL



To operate



To select the desired video input



To select the desired preset input label (see chart below)



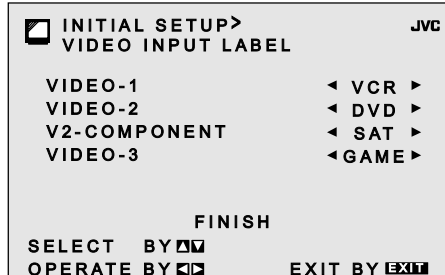
To FINISH



To save settings and exit



Press the EXIT button when finished



Preset Labels	Select when...
VCR	You have a VCR connected to the video input
DVD	You have a DVD connected to the video input
DVHS	You have a Digital VCR connected to the video input
STB	You have a Set-top Box connected to the video input
SAT	You have a Satellite Receiver connected to the video input
AMP	You have an Amplifier connected to the video input
GAME	You have a Video Game connected to the video input
CAM	You have a Video Camera connected to the video input
DISC	You have a Video Disc player connected to the video input

Picture Adjust

Picture Settings

These settings allow you to change and adjust the way the picture appears on your television.

TINT

Tint allows you to adjust the levels of red and green in your TV picture.

COLOR

The color function lets you make all the colors in the TV picture appear either more vivid or subtle.

PICTURE

Picture allows you to adjust the levels of black and white on the TV screen, giving you a darker or brighter picture overall.

BRIGHT

You can adjust the overall brightness of the TV picture with the Bright control.

DETAIL

The Detail feature adjusts the level of fine detail displayed in the picture.

Adjust the Picture Settings



Press the MENU button



To TINT, COLOR, PICTURE, BRIGHT or
DETAIL



To enter



To adjust the setting



To move to the next setting



Press the EXIT button when finished

	PICTURE ADJUST (1/2)				JVC
	PREVIOUS	STANDARD			
	TINT			
	COLOR			
	PICTURE			
	BRIGHT			
	DETAIL			
	COLOR TEMPERATURE	<LOW>			
	NEXT PAGE				
	SELECT BY	RESET BY			
	OPERATE BY	EXIT BY			

Note:

- If you press the 0 button, you can reset the setting to the factory default setting.

Picture Adjust

Color Temperature

You can decide how strong or dull the colors appear on the TV screen.



Press the MENU button



To COLOR TEMPERATURE



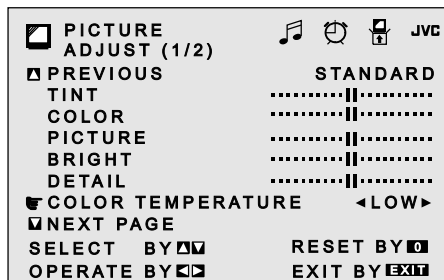
To enter



To set LOW or HIGH



Press the EXIT button when finished



Note: If you press the 0 button, you can reset the setting to the factory default setting.

Noise Muting

This feature inserts a blank blue screen over channels which are not broadcasting or are too weak to be received clearly.



Press the MENU button



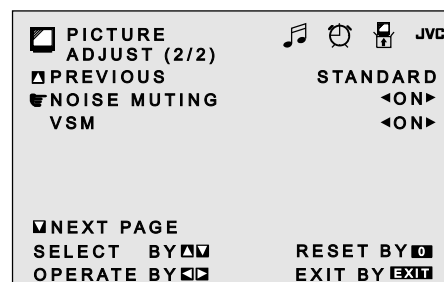
To NOISE MUTING



To turn noise muting ON or OFF



Press the EXIT button when finished



Note:

- Noise muting will not work during auto tuner setup or when you operate channel summary.

(VSM) Velocity Scan Modulation

Velocity scan modulation circuitry varies the electron beam's horizontal scanning speed to help accentuate the differences in picture brightness to sharpen the edges of images.



Press the MENU button



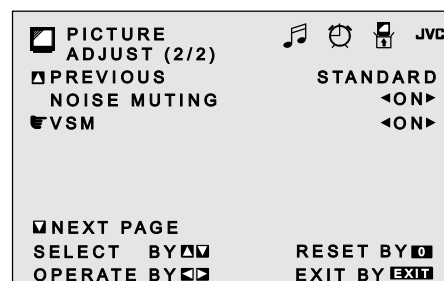
To VSM



To enter



To turn VSM ON or OFF



Note: If you press the 0 button, you can reset the setting to the factory default setting.

Sound Adjust

Sound Settings

These settings allow you to change and adjust the sound on your television.

BASS – You can increase or decrease the level of low-frequency sound in the TV's audio with the bass adjustment.

TREBLE – Use treble to adjust the level of high-frequency sound in your TV's audio.

BALANCE – Adjust the level of sound between the TV's left and right speakers with the balance setting.

Adjust the Sound Settings



Press the MENU button



To BASS, TREBLE or BALANCE



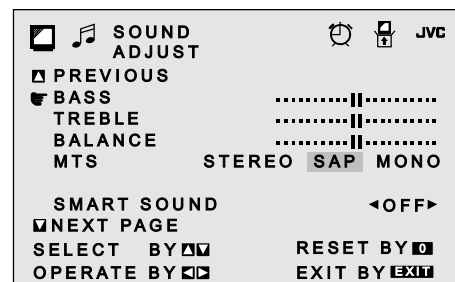
To adjust the setting



To move to the next setting



Press the EXIT button when finished



Note:

- If you press the 0 button, you can reset the setting to the factory default setting.

MTS (Multi-Channel Television Sound)

MTS technology allows several audio signals to be broadcast at once, giving you a choice in what you wish to hear with a TV program. In addition to mono or stereo sound, an MTS broadcast may also include a second audio program (SAP).



Press the MENU button



To MTS



Select the mode

(The ON AIR arrow tells you if a broadcast is in stereo and/or contains an SAP).



Press the EXIT button when finished

Notes:

- Keep the TV in stereo mode to get the best sound quality. The sound will work in stereo mode even if a certain broadcast is in mono sound only.
- Choose the mono setting to reduce excessive noise on a certain channel or broadcast.
- Selecting SAP will allow you to hear an alternative soundtrack, if one is available.

Smart Sound

Decreases high sound levels, giving a regulated sound level.



Press the MENU button



To SMART SOUND



To turn ON or OFF



Press the EXIT button when finished

Clock/Timers

Set Clock

The set clock function is described on page 16 as the interactive plug-in menu. You can choose to set the clock automatically, or manually. If you need to set the clock again, follow the steps below.



Press the MENU button



To SET CLOCK



To operate

When you set the clock automatically, choose **AUTO** by pressing the ◀ or ▶ arrows.



To TIME ZONE



To select your time zone



To D.S.T. (daylight savings time)



To turn D.S.T. ON or OFF



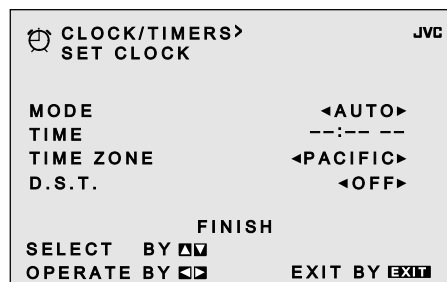
To FINISH



To save settings



Press the EXIT button when finished



When you set the clock manually, choose **MANUAL** by pressing the ◀ or ▶ arrows.



To move to the hour



To set the hour



To move to minutes



To set the minutes

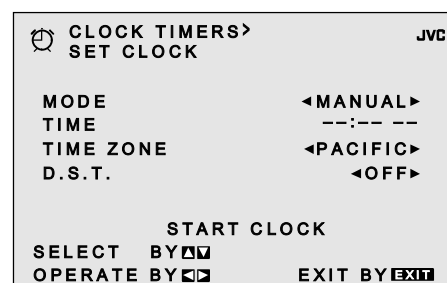


To START CLOCK



To operate

THANK YOU !!



Notes:

- D.S.T. can be used only for US and Canada when it is set to ON in the SET CLOCK menu.
- Only when the MODE set to AUTO, the Daylight Savings Time feature automatically adjusts your TV's clock for Daylight Savings. The clock will move forward one hour at 2:00 am on the first Sunday in April. The clock will move back one hour at 2:00 am on the last Sunday in October.
- You will have to reset the clock after a power interruption. You must set the clock before operating any timer functions.

Clock/Timers

On/Off Timer

The on/off timer lets you program your television to turn itself on or off. You can use it as an alarm to wake up, to help you remember important programs, or as a decoy when you're not home.



Press the MENU button



To ON/OFF TIMER



To operate (begins with ON TIME)



To set the hour (AM/PM) you want the TV to turn on



To move to minutes



To set the minutes



To accept ON TIME and move to OFF TIME (the time the TV will turn off). Set the OFF TIME the same way as ON TIME



To accept OFF TIME and move to CHANNEL



To select channel



To ON VOLUME



To set the volume level



To move to MODE



Choose ONCE or EVERYDAY



To ON/OFF TIMER



Choose YES to accept the timer setting, choose NO if you don't wish to accept



To FINISH



To save settings



Press the EXIT button when finished

	CLOCK/TIMERS>	JVC
	ON/OFF TIMER	
	ON TIME	7:00 PM
	OFF TIME	10:00 PM
	CHANNEL	02
	ON VOLUME	CURRENT
	MODE	◀ EVERYDAY ▶
	ON/OFF TIMER	◀ NO ▶
	FINISH	
	SELECT BY	
	OPERATE BY	EXIT BY

Notes:

- The on/off time cannot be set to locked or guarded channels.
- In order for the on/off timer to work, the clock must be set.
- After a power interruption, the timer settings must be reset.
- If you turn on your TV set before the on time, when the TV reaches the on time that you set, the "SWITCHING TO ON TIMER" will appear. This means that the TV is going to change to your on/off timer setting.

Clock/Timers

World Clock

The world clock feature provides time differences for some of the major cities around the world in real time.



Press the MENU button



To WORLD CLOCK



To operate



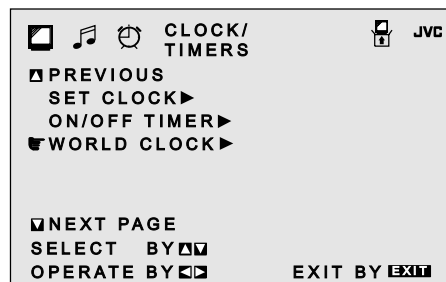
To next page



Press the EXIT button when finished

Note:

- For the proper performance of the function, the XDS information must be provided by the broadcaster.
- D.S.T. can be used only for US and Canada when it is set to ON in the SET CLOCK menu.



Button Functions

Power

Turns the TV on or off.



Press the POWER button

Number Buttons - 10Key Pad

Use the number buttons on the remote control to move directly to a specific channel. For example, to move to channel 7:



0 (Zero)



7 (Seven)

100+ Button

Use the 100+ button to directly access channels above channel 99. For example, to move to channel 124, press 100+, 2 (Two), 4 (Four).

Channel +/-

Use these buttons to move up or down all the available channels your TV is able to receive.

Volume +/-

Use these buttons to raise or lower the TV's volume level.

Muting

The MUTE button instantly turns the volume down completely when you press it. Press MUTE and the volume level will instantly go to zero. To restore the volume to its previous level, press MUTE again.

Menu

The MENU button allows you to access JVC's onscreen menu system. Press MENU to activate the onscreen menu system.

- See individual topics like "Sound Adjust" for specific information on using menus.

Exit

Use this button to enter or exit the TV's onscreen menus.

Button Functions

Return +

The RETURN+ button has two functions:

Return - Returns to the channel viewed just before the channel currently onscreen.

Return+ - Lets you program a specific channel to return to while scanning through the channels using the CH+ and CH- buttons.



RETURN+ and hold for three seconds

RETURN CHANNEL
PROGRAMMED!

The channel currently active has been programmed as your return+ channel. Now scan through the channels using the CHANNEL+/- buttons.



RETURN+

You will return to your programmed channel.

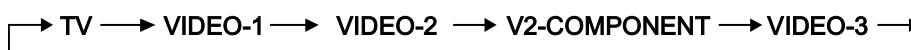
- To cancel your Return+ channel, press and hold the RETURN+ button for three seconds. The message "RETURN CHANNEL CANCELLED!" will appear.
- Return+ works only with the CH+/- buttons. Pressing any number key will cancel Return+.

Input

Selects the signal input source for the television: TV (for Antenna or Cable) or Video-1, 2, or V2-Component or Video-3 for video devices like VCR's, DVD players, or camcorders.



Press the INPUT button



Note:

- You can also access the input menu screen by using the MENU button on the side of the TV instead of the remote control. It appears between INITIAL SETUP and PICTURE ADJUST screen. Choose the INPUT by pressing MENU ▼ on the side panel and select TV or VIDEO INPUT by using the CHANNEL +/- buttons (◀ OPERATE ▶).

Button Functions

Display

The display screen shows the current status of timers, inputs, and XDS ID.



Press the DISPLAY button

The screen to the right shows the following information:

- The current channel or AV input (Channel 07)
- The current time (12:20 pm)
- Sleep timer status/minutes remaining (The Sleep Timer is off)
- On/off timer status (Set to turn on everyday at 7:00 PM, off at 10:00 PM)
- Each Press of the DISPLAY button changes the display mode

07 KLVX PBS	
JAZZ FESTIVAL	
NOW	12 : 20 PM
SLEEP TIMER	OFF
ON/OFF TIMER	EVERYDAY
ON TIME	7 : 00 PM
OFF TIME	10 : 00 PM



Display - Full screen shown above

Time - Shows the current time only

Channel - Shows the current channel

Off - Turns display off

Notes:

- You may also turn off the display at any step by pressing MENU.
- If the clock, sleep timer or on/off timer are not set, the display screen will show: "CLOCK NOT SET", "SLEEP TIMER OFF", and "ON/OFF TIMER OFF" respectively.

Sleep Timer

The Sleep Timer can turn the TV off for you after you fall asleep. Program it to work in intervals of 15 minutes, for a total time of up to 180 minutes.



Press the SLEEP TIMER button

→ 0 15 30 45 60 75 90 105 120 135 150 165 180 →

Sleep Timer Message

20 seconds before the automatic shutoff, this message will appear:

GOOD NIGHT!!
PUSH SLEEP TIMER BUTTON
TO EXTEND

You then have 20 seconds to press the sleep timer button to delay the shut off for another 15 minutes.

Button Functions

Sound

The **SOUND** button give you a choice of two sound effects.

Hyper Surround - Creates a deep, three-dimensional sound effect by channeling the audio through the TV's front-firing speakers.

BBE - BBE High Definition Sound restores clarity and presence for better speech intelligibility and musical realism.



Press the **SOUND** button



To select **HYPER SURROUND** or **BBE**



To choose the setting



Press the **EXIT** when finished

SOUND EFFECT

HYPER SURROUND

◀OFF▶

BBE

◀ON▶

SELECT BY

OPERATE BY

EXIT BY **EXIT**

Note: Manufactured under license from BBE Sound, Inc. Licensed by BBE Sound, Inc. under USP4638258, 5510752 and 5736897. BBE and BBE symbol are registered trademarks of BBE Sound, Inc.

C.C. (Closed Caption)

Use the **C.C. (Closed Caption)** button to select the mode of closed caption.



Press the **C.C.** button

→ OFF → SMART CAPTION → CAPTION → TEXT →

- Smart Caption will appear when you press the **MUTING** button, only on channels where the broadcast contains closed captioning.
- See page 32 when you set the caption/text mode.

Button Functions

Video Status

The VIDEO STATUS button gives you a choice of four TV picture display settings, including a display of your own preferences.

STANDARD - Resets the picture display to the factory settings.

DYNAMIC - Heightens contrast.

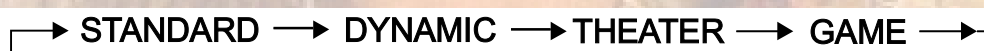
THEATER - Gives a rich, film-like look to video when viewing in a dimly lit room.

GAME - Used for when you are playing video games connected to your TV.



Press the VIDEO STATUS button

By every press of the video status button, you change the mode.



- You can also access the FRONT PANEL CONTROL screen by using the MENU button on the side of the TV instead of the remote control. It appears between INITIAL SETUP and PICTURE ADJUST screen, and it has INPUT, VIDEO STATUS and ASPECT menus. Choose VIDEO STATUS by pressing MENU ▼ on the side panel and choose a mode by using the CHANNEL +/- buttons (◀ OPERATE ▶).

TheaterPro D6500K

The TheaterPro D6500K color temperature technology function makes sure that the video you watch is set to the standard color temperature. This will adjust the picture quality to what the video film editors intended it to be.



Press the THEATER PRO button

Button Functions

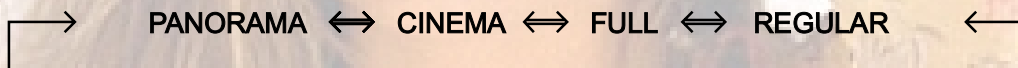
Aspect

This feature will help you adjust the picture you are watching to give you the best possible picture quality.



Press the ASPECT button

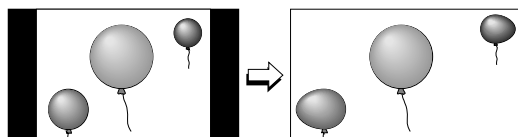
- By pressing the ASPECT button, you can change the size.



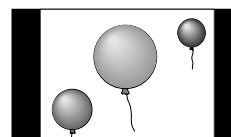
When you change the aspect ratios, it is different from their broadcast or recorded program.

Aspect Ratios

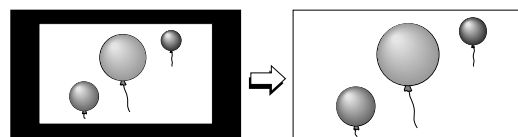
PANORAMA - With this ratio a normal 4:3 aspect picture is stretched to fit the dimensions of the 16:9 aspect screen.



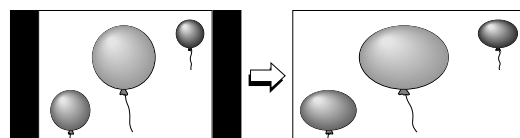
REGULAR - The regular ratio is used when you want to watch a 4:3 broadcast or recorded program without modifying the original picture to fit the dimensions of your 16:9 screen. The 4:3 picture will fill the screen from top to bottom, while black bars will appear to fill up the remaining space along the picture's sides. The 4:3 picture will be centered within the boundaries of the 16:9 screen.



CINEMA - This ratio "zooms in" on the center part of a 4:3 aspect picture, blowing it up to fill the 16:9 screen.



FULL - This is the ratio to use when watching 16:9 broadcasts.



Note:

- You can also access the FRONT PANEL CONTROL screen by using the MENU button on the side of the TV instead of the remote control. It appears between INITIAL SETUP and PICTURE ADJUST screen, and it has INPUT, VIDEO STATUS and ASPECT menus. Choose ASPECT by pressing MENU ▼ on the side panel and choose a mode by using the CHANNEL +/- buttons (◀ OPERATE ▶).

Button Functions

TV/CATV Slide Switch

Use either the television's own tuner or a cable box to select channels. Set this switch to **TV** to operate the television's built-in tuner. Move the switch to **CATV** to operate a cable box.

Note:

- See page 18 for information on programming your remote for cable box operation.

VCR/DVD Slide Switch

You can control a VCR or DVD player with the buttons on the lower part of the remote control. Move the slide switch to **VCR** or **DVD** to operate.

Notes:

- The remote is preset with the code 000 to control JVC-brand VCR's. For any other manufacturer's brand VCR, please see the code chart and instructions on page 19.
- The remote is preset with the code 000 to control JVC-brand DVD players. For any other manufacturer's brand DVD player, please see the code chart and instructions on page 20.

VCR Buttons

You can use this remote control to operate the basic functions of your VCR. These functions include: play, record, rewind, fast-forward, stop, pause, channel scan, TV/VCR, power on, and power off.

Move the selector switch to **VCR** to operate.

- The remote is preset with the code 000 to control JVC-brand VCR's. For any other manufacturer's brand VCR, please see the code chart and instructions on page 19.

DVD Buttons

You can also use this remote control to operate the basic functions of your DVD player. These functions include: play, rewind, fast-forward, stop, still/pause, previous/next, tray open/close, power on, and power off.

Move the selector switch to **DVD** to operate.

- The remote is preset with the code 000 to control JVC-brand DVD players. For any other manufacturer's brand DVD player, please see the code chart and instructions on page 20.

Troubleshooting

PROBLEMS	CHECK
There is no power	<ul style="list-style-type: none"> • See if the power cord became unplugged. • Check for a blown fuse or circuit breaker or a power outage.
There is no picture or sound	<ul style="list-style-type: none"> • The antenna could be disconnected. • The input mode could be set improperly. See page 42. • The tuner (Auto Tuner Setup) could be set improperly. See page 24. • The TV station may be having difficulties. Check to see if other stations are working.
Remote control is not operating properly or at all	<ul style="list-style-type: none"> • Check to see that the batteries are still working and properly installed. • Make sure the remote has a clear sight path to the TV. • Check that the TV/CATV switch is in the proper position. • You may be too far from the TV. You must be within 23 feet (7 meters).
You cannot select a certain channel	<ul style="list-style-type: none"> • Make sure the channels have been programmed. See "Channel Summary", page 24. • Check to see if the channel is locked. See "Channel Summary - Lock" page 25.
The power turns off by itself	<ul style="list-style-type: none"> • Make sure the set did not become unplugged. • Perhaps the On/Off Timer is set. See page 39. • Check to see if the Sleep Timer was set. See page 43.
The clock is wrong	<ul style="list-style-type: none"> • The power was interrupted and the clock was not reset. See page 38.
The On Timer is blinking	<ul style="list-style-type: none"> • There is a problem with the TV. Unplug the set and call for service.
The color quality is poor	<ul style="list-style-type: none"> • Tint and Color may be improperly adjusted. See page 35. • The Video Status mode may be turned to the wrong setting. See page 45.
There are lines across the picture	<ul style="list-style-type: none"> • There could be interference from another electrical appliance, such as a computer, another TV or VCR. Move any such appliances further away from the TV.
The picture is spotted	<ul style="list-style-type: none"> • There could be interference from a high-wattage appliance, like a hairdryer or vacuum, operating nearby. Move the antenna away from the appliance or change to a coaxial cable connection which is less prone to interference.
There are double pictures (ghosts)	<ul style="list-style-type: none"> • A building or passing airplane can reflect the original signal and produce a second, slightly delayed one. Adjust your antenna position.
Picture is snowy (image noise)	<ul style="list-style-type: none"> • Your antenna may be damaged, disconnected or turned. Check the antenna connection. If the antenna is damaged, replace it.
Screen is 80% black	<ul style="list-style-type: none"> • The Closed Caption Text mode is on. Turn it off in the Closed Caption Menu, page 32.
Stereo or bilingual programs can't be heard	<ul style="list-style-type: none"> • Make sure the MTS settings are correct. See "MTS" on page 37.
There is no picture being displayed for INPUT-2	<ul style="list-style-type: none"> • Check your AV Cables to make sure they are connected tightly and properly. • In case you are connecting using component cables to V2, make sure you select "V2-COMPONENT" by pressing the INPUT button. See page 13 and 42. • In case you are connecting using composite cables to V2, make sure you select "VIDEO-2" by pressing the INPUT button. See page 13 and 42.
⊙ mark appears	<p>The ⊙ mark will appear if you press the ASPECT button under these conditions:</p> <ul style="list-style-type: none"> • While noise muting is on over channels which are not broadcasting or are too weak to be received. • When a channel is locked by CHANNEL GUARD.
Static electricity	<ul style="list-style-type: none"> • It is normal to feel static electricity if you brush or touch the screen.
You hear occasional crackling sounds	<ul style="list-style-type: none"> • It is normal for the TV to make crackling sounds when first turned on or off. Unless the sound or picture become abnormal, this is fine.

Specifications

MODEL	AV-30W476
Reception Format	NTSC, BTSC System (Multi-Channel Sound)
Reception Range	VHF 2 to 13, UHF 14 to 69 Sub Mid, Mid, Super, Hyper and Ultra bands (181 channel frequency synthesizer system)
Power Source	AC 120V, 60Hz
Power Consumption	140W
Screen Size	30 inch / 95 cm measured diagonally full square
Audio Output	9W + 9W
Speakers	2 1/2 x 5 inch / 6.5 x 13 cm oval x 2
Antenna Terminal	75 ohms (VHF/UHF) (F-type connector)
External Input Jacks	Video: 1 Vp-p, 75 ohms Audio: 500mVrms (-4dBs) high impedance
S-Video Input Jack	Y: 1Vp-p positive, 75 ohms (negative sync provided) C: 0.286 Vp-p (burst signal), 75 ohms
Component Input Jacks	Y: 1Vp-p positive, 75 ohms (negative sync provided) PB/PR: 0.7 Vp-p, 75 ohms
Audio Output Jacks (FIX)	FIX; 500 mVrms (-4dBs) Low impedance (400 Hz when modulated 100%)
Dimensions (In) WxHxD (cm)	33 1/8 x 23 1/2 x 21 7/8 83.8 x 59.6 x 55.4
Weight (lbs / kg)	115.1 / 52.2
Accessories	Remote control unit x 1 / AA batteries x 2

Specifications subject to change without notice.



LIMITED WARRANTY

DISPLAY 1-90

For Canadian model televisions, see separate sheets for Canadian Warranty information.

JVC COMPANY OF AMERICA (JVC) warrants this product and all parts thereof, except as set forth below ONLY TO THE ORIGINAL RETAIL PURCHASER to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original purchase for the period shown below. ("The Warranty Period")
PICTURE TUBE is covered for Two(2)years.

Parts	1 YEAR	Labor	90 DAYS
-------	---------------	-------	----------------

THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN THE COMMONWEALTH OF PUERTO RICO.

WHAT WE WILL DO:

If this product is found to be defective within the warranty period, JVC will repair or replace defective parts with new or rebuilt equivalents at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products may be brought to a JVC authorized service center on a carry-in basis. Color televisions with a screen size of 27" or greater qualify for in-home service. In such cases, a technician will come to your home and either repair the TV there or remove and return it if it cannot be repaired in your home.

WHAT YOU MUST DO FOR WARRANTY SERVICE:

Please do not return your product to the retailer

Instead, return your product to the JVC authorized service center nearest you. If shipping the product to the service center, please be sure to package it carefully, preferably in the original packaging, and include a brief description of the problem(s). Please call 1-800-252-5722 to locate the nearest JVC authorized service center. Service locations can also be obtained from our website <http://www.jvc.com>. If your product qualifies for in-home service, the service representative will require clear access to the product.

If you have any questions concerning your JVC Product, please contact our Customer Care Center at 800-252-5722

WHAT IS NOT COVERED:

This limited warranty provided by JVC does not cover:

1. Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if affixed to any attachment not provided with the products, or if the model or serial number has been altered, tampered with, defaced or removed;
2. Initial installation, installation and removal from cabinets or mounting systems.
3. Operational adjustments covered in the Owner's Manual, normal maintenance, video and audio head cleaning;
4. Damage that occurs in shipment, due to act of God, and cosmetic damage;
5. Signal reception problems and failures due to line power surge;
6. User Removal Memory Devices/ Video Pick-up Tubes/CCD Image Sensors are covered for 90 days from the date of purchase;
7. Accessories;
8. Batteries (except that Rechargeable Batteries are covered for 90 days from the date of purchase);
9. Products used for commercial purposes, including, but not limited to rental.
10. Loss of data resultant from malfunction of hard drive or other data storage device.

There are no express warranties except as listed above.

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For customer use:

Enter below the Model No. and Serial No. which is located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No. :

Serial No. :

Purchase date :

Name of dealer :

TO OUR VALUED CUSTOMER

THANK YOU FOR PURCHASING THIS JVC PRODUCT.
WE WANT TO HELP YOU ACHIEVE A PERFECT EXPERIENCE.

**NEED HELP ON HOW TO HOOK UP?
NEED ASSISTANCE ON HOW TO OPERATE?
NEED TO LOCATE A JVC SERVICE CENTER?
LIKE TO PURCHASE ACCESSORIES?**

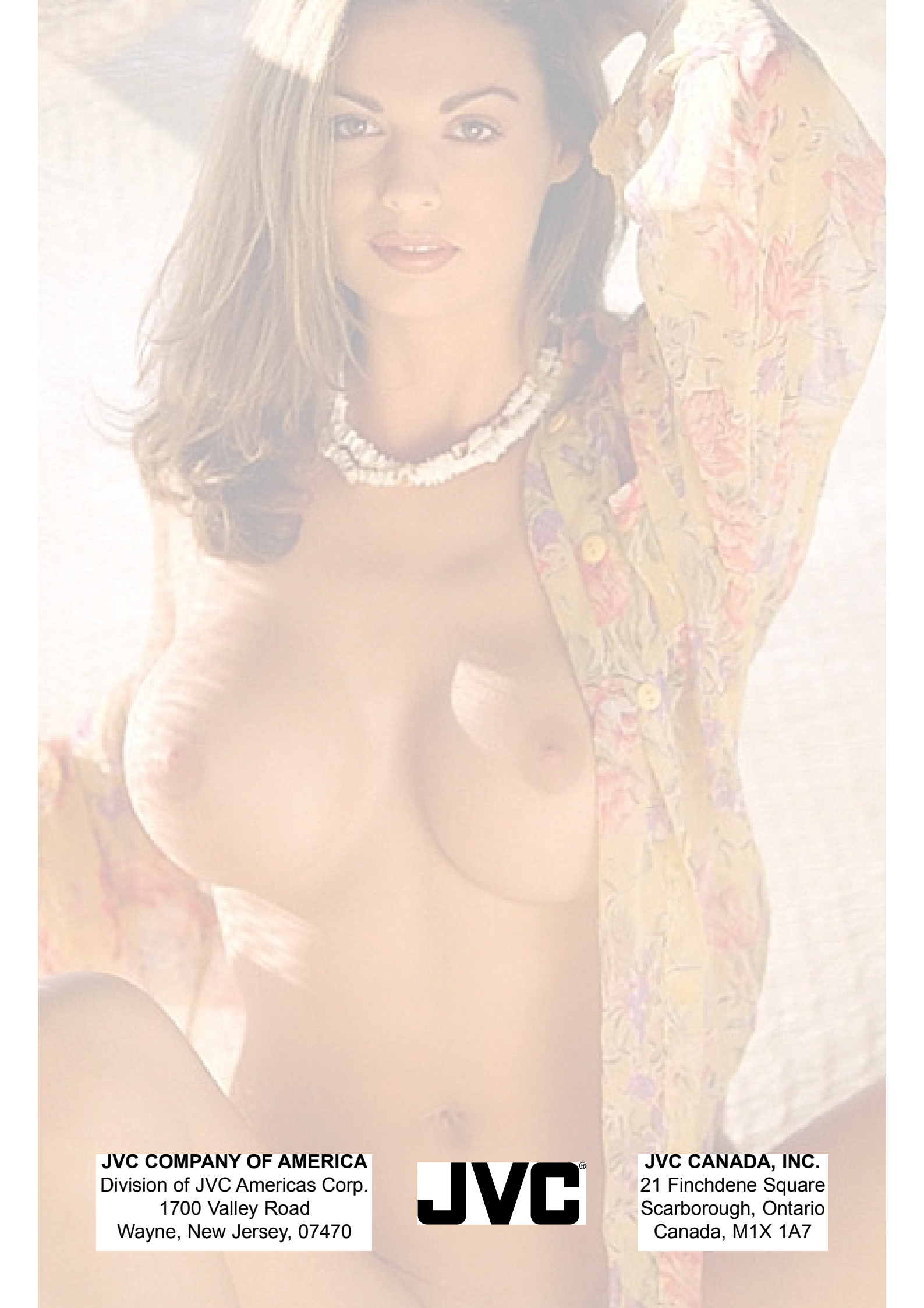
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Remember to retain your Bill of Sale for Warranty Service.

Do not attempt to service the product yourself

Caution

To prevent electrical shock, do not open the cabinet.
There are no user serviceable parts inside.
Please refer to qualified service personnel for repairs.



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JVC

SERVICE MANUAL

COLOR TELEVISION

AV-30W476/s

BASIC CHASSIS

GW2

I'Art™
BBE



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SPECIFICATION

Items		Contents
Dimensions (W × H × D)		83.8 cm × 59.6 cm × 55.4 cm (33-1/8" × 23-1/2" × 21-7/8")
Mass		52.2 kg (115.1 lbs)
TV RF System		CCIR (M)
Color System		NTSC
Sound System		BTSC (Multi Channel Sound)
Teletext System		Closed caption (T1-T4 / CC1-CC4)
TV Receiving Channels and Frequency	VHF low VHF high UHF CATV	02ch - 06ch: 54 MHz - 88 MHz 07ch - 13ch: 174 MHz - 216 MHz 14ch - 69ch: 470 MHz - 806 MHz 54MHz - 804 MHz Low Band: 02 - 06 High Band: 07 - 13 Mid Band: 14 - 22 Super Band: 23 - 36 Hyper Band: 37 - 64 Ultra Band: 65 - 94, 100 - 135 Sub Mid Band: 01, 96 - 99
TV / CATV Total Channel		181 Channels [Reception of channel A-5 ("95" of the TV set's on-screen CABLE channel) is recommended for your TV set.]
Intermediate Frequency	Video IF Sound IF	45.75 MHz 41.25 MHz (4.5 MHz)
Color Sub Carrier		3.58 MHz
Power Input		AC120 V, 60 Hz
Power Consumption		140 W
Picture Tube (Visible size)		76 cm (30") Measured diagonally (H: 67.4 cm × V: 38.4 cm)
High Voltage		31.34 kV ±1.3 kV [at Zero beam current]
Speaker		6.5 cm × 13 cm (2-1/2" × 5"), Oval type × 2
Audio Power Output		9W + 9W
Antenna Terminal (VHF / UHF)		F-type connector, 75 Ω unbalanced
Video / Audio input [INPUT-1/2/3]	Component Video [INPUT-2] S-video [INPUT-1] Video Audio	RCA pin jack × 3 Y : 1 V(p-p), 75 Ω, negative sync Pb/Pr : 0.7V(p-p), 75 Ω Mini DIN 4-pin × 1 Y : 1 V(p-p), 75 Ω, negative sync C : 0.286 V(p-p)(burst signal), 75 Ω 1 V(p-p), 75 Ω, negative sync, RCA pin jack × 3 500 mV(rms)(-4dBs), high impedance, RCA pin jack × 6
Audio Output (Fix)		500 mV(rms)(-4dBs), low Impedance, (400kHz when modulated 100%), RCA pin jack × 2
Remote Control Unit		RM-C1258G (AA/R6/UM-3 battery × 2)

Design & specifications are subject to change without notice.

SECTION 1 PRECAUTION

1.1 SAFETY PRECAUTIONS

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

(10) Isolation Check (Safety for Electrical Shock Hazard)

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

a) Dielectric Strength Test

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 1100V AC (r.m.s.) for a period of one second.
(... Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.) This method of test requires a test equipment not generally found in the service trade.

b) Leakage Current Check

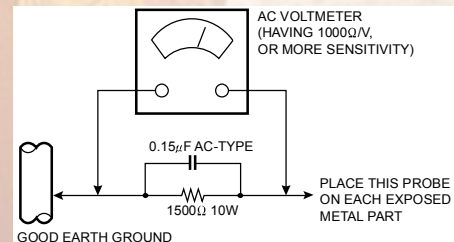
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known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

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

Alternate Check Method

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

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



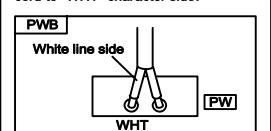
(11) High voltage hold down circuit check.

After repair of the high voltage hold down circuit, this circuit shall be checked to operate correctly. See item "How to check the high voltage hold down circuit".

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



POWER CORD REPLACEMENT WARNING.
Connecting the white line side of power cord to "WHT" character side.



SECTION 2

SPECIFIC SERVICE INSTRUCTIONS

2.1 FEATURES

SMART CAPTION

Smart caption will appear when you press the MUTING button, only on channels where the broadcast contains CLOSED CAPTION information.

SMART SOUND

Decreases high sound levels, giving a regulated sound level.

VIDEO STATUS

Expression of a favorite screen can be chosen by the VIDEO STATUS function.

[STANDARD ↔ DYNAMIC ↔ THEATER ↔ GAME]

COMPONENT INPUT

Since the component signal input terminal is equipped, it reappears direct without deteriorating the signal from DVD.

V-CHIP

Since the V-CHIP is built in, it can choose, view and listen to a healthy program.

RETURN PLUS

You program a specific channel to return to while scanning through the channels using the CH+ and CH - keys.

VIDEO INPUT LABEL

This function is used to label video input connections for the onscreen displays.

WORLD CLOCK

The world clock feature provides time differences for some of the major cities around the world in real time.

BBE

High definition audio adds natural, clear and extraordinary sound quality to any program.

A.H.S.

Adds a more spacious surround sound. Music gives basic effect and Movie for more effect.

2.2 TECHNICAL INFORMATION

2.2.1 MAIN MI-COM (CPU) PIN FUNCTION

Pin No.	Pin name	I/O	Function	Pin No.	Pin name	I/O	Function
1	MTS_ADJ	I	Not used	29	YC_GND	-	GND
2	AFT1	I	AFT voltage for tuner (Tuning frequency control)	30	V1_IN	I	Not used
3	KEY	I	Key scan for front control [No signal : H]	31	ABCL	I	Current for automatic beam (brightness)/contrast limit
4	uP_DVss	-	GND	32	MONITOR_OUT	O	Not used
5	Reset	I	CPU reset [Reset : L]	33	BLACK_DET	-	Black level detection filter
6	8MHz_OUT	O	CPU system clock : 8MHz oscillation	34	SVM_OUT	O	Y signal for scan velocity modulation
7	8MHz_IN	I	CPU system clock : 8MHz oscillation	35	APL_FIL	-	Average picture level filter
8	TEST	-	GND	36	APC_FIL	-	Automatic phase control filter
9	uP_DVDD	I	5V	37	fsc_OUT	O	Color sub carrier (3.58MHz) for 3-line digital comb filter [IC5201]
10	AGC_MUTE	O	AGC muting for tuner (when channel select) [Muting : H]	38	YC_Vcc	I	5V (for video process circuit)
11	uP_VVSS	-	GND	39	R_OUT	O	R signal for CRT output
12	TV_HGND	-	GND	40	G_OUT	O	G signal for CRT output
13	FBP_SCP	I	Flyback pulse (H. pulse)	41	B_OUT	O	B signal for CRT output
14	HOUT	O	H. drive (oscillation)	42	RGB_Vcc	I	9V (for RGB process circuit)
15	H_Vcc	I	9V (for H. oscillation start)	43	IK_IN	I	Not used
16	HAFC_1	-	H. AFC filter	44	TV_DGND	-	GND
17	Vsaw	-	V. saw filter	45	uP_AGND	-	GND
18	VOUT	O	V. drive	46	uP_AVdd	-	5V
19	EW_OUT	O	Parabola waveform (for sidepin correction)	47	MAIN_POWER	O	Power on/off switching control [Power on : L]
20	X-RAY	I	X-ray detection (for protection) [Detection : H]	48	PANORAMA	I	Aspect size control [PANORAMA : L]
21	Ys	I	Not used	49	SDA0	I/O	Data for Inter IC control bus (for various devices)
22	Cb_IN	I	Cb (external) signal	50	SCL0	O	Clock for Inter IC control bus (for various devices)
23	Y_IN	I	Y (external) signal	51	SDA1	I/O	Data for Inter IC control bus (for main memory)
24	Cr_IN	I	Cr (external) signal	52	A_MUTING	O	Audio muting [Muting : H]
25	TV_DVcc	I	3.3V	53	SCL1	O	Clock for Inter IC control bus (for main memory)
26	V3IN/CIN	I	Chroma signal (for YC separation output)	54	LED	O	POWER / ON TIMER LED Indication [lighting : L]
27	EHT_IN	I	Not used	55	REMOCON	I	Remote control sensor input [No input : H]
28	V2_IN/Y_IN	I	Y signal (for YC separation output)	56	ASP_ABL	I	Not used

SECTION 3 DISASSEMBLY

3.1 DISASSEMBLY PROCEDURE

3.1.1 REMOVING THE REAR COVER

- (1) Disconnect the power plug.
- (2) Remove the 10 screws [A].
- (3) Withdraw the REAR COVER backward.

3.1.2 REMOVING THE AV TERMINAL BOARD

- Remove the REAR COVER.
 - (1) Remove the 4 screws [B].
 - (2) Withdraw the AV TERMINAL BOARD toward you.

3.1.3 REMOVING THE CHASSIS

- Remove the REAR COVER.
- Remove the AV TERMINAL BOARD.
 - (1) Slightly raise the both sides of CHASSIS by hand.
 - (2) Remove the 2 claws under the both side of the CHASSIS from the front cabinet.
 - (3) Withdraw the CHASSIS backward.
(If necessary, remove the wire clamp, connectors etc.)

3.1.4 REMOVING THE SPEAKER

- Remove the REAR COVER.
 - (1) Remove the 2 screws [C] and remove the SPEAKER.
 - (2) Follow the same steps when removing the other hand SPEAKER.

3.1.5 REMOVING THE FRONT CONTROL PWB

- Remove the REAR COVER.
 - (1) Remove the 2 screws [D].
 - (2) Withdraw the FRONT CONTROL PWB toward you.

*If necessary, remove the wire clamp, connector etc.

3.1.6 REMOVING THE SIDE CONTROL PWB

- Remove the REAR COVER.
 - (1) Remove the 1 screw [E] and remove the CONTROL BASE.
 - (2) Remove the 3 screws [F] and remove the SIDE CONTROL PWB.

*If necessary, remove the wire clamp, connector etc.

3.1.7 CHECKING THE CHASSIS

To check the PW Board from back side.

- (1) Pull out the CHASSIS (refer to REMOVING THE CHASSIS).
- (2) Erect the CHASSIS vertically with the rear side facing up so that you can easily check the back side of the PW board.

CAUTION :

- When erecting the CHASSIS, be careful so that there will be no contacting with other PW Board.
- Before turning on power, make sure that the wire connector is properly connected.
- **When conducting a check with power supplied, be sure to confirm that the CRT EARTH WIRE (BRAIDED ASS'Y) is connected to the CRT SOCKET PWB.**

3.1.8 WIRE CLAMPING AND CABLE TYING

- (1) Be sure to clamp the wire.
- (2) Never remove the cable tie used for tying the wires together. Should it be inadvertently removed, be sure to tie the wires with a new cable tie.



3.1.9 REMOVING THE CRT

NOTE:

- Replacement of the CRT should be performed by 2 or more persons.
 - After removing the REAR COVER, CHASSIS etc.,
- (1) Putting the CRT change table on soft cloth, the CRT change table should also be covered with such soft cloth (shown in Fig. 3).
 - (2) While keeping the surface of CRT down, mount the TV set on the CRT change table balanced well as shown in Fig. 3.
 - (3) Remove 4 screws marked by arrows with a box type screwdriver as shown in Fig. 4.

NOTE:

- Since the cabinet will drop when screws have been removed, be sure to support the cabinet with hands.
- (4) After 4 screws have been removed, put the cabinet slowly on cloth (At this time, be carefully so as not to damage the front surface of the cabinet) shown in Fig. 5.

NOTE:

- The CRT should be assembled according to the opposite sequence of its dismantling steps.
- The CRT change table should preferably be smaller than the CRT surface, and its height be about 35cm.

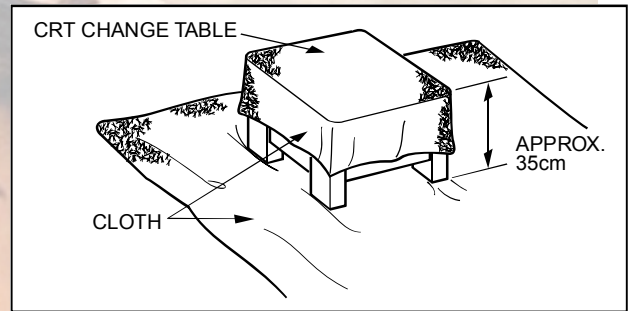


Fig.3

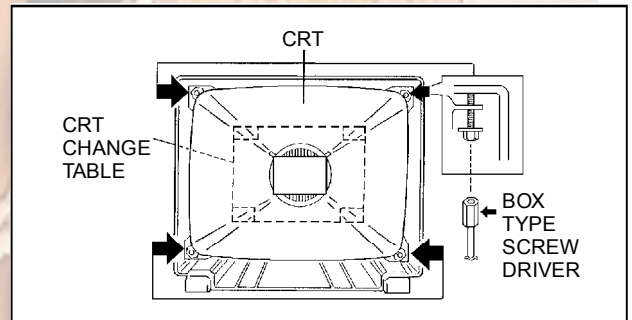


Fig.4

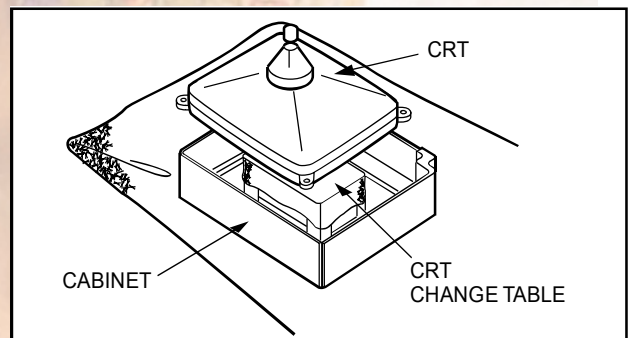


Fig.5

COATING OF SILICON GREASE FOR ELECTRICAL INSULATION ON THE CRT ANODE CAP SECTION.

Subsequent to replacement of the CRT and HV transformer or repair of the anode cap, etc. by dismantling them, be sure to coat silicon grease for electrical insulation as shown in Fig.6. Wipe around the anode button with clean and dry cloth. (Fig.6) Coat silicon grease on the section around the anode button. At this time, take care so that any silicon greases do not stick to the anode button. (Fig.7)

Silicon grease product No. KS - 650N

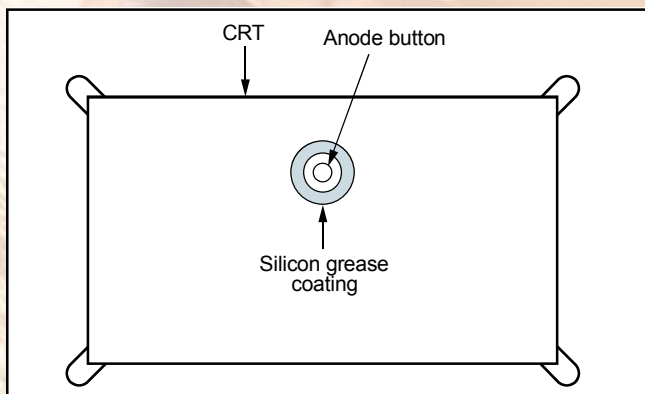


Fig.6

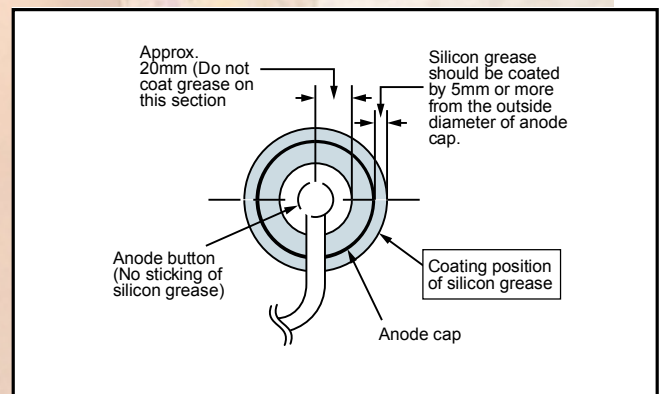


Fig.7

3.2 MEMORY IC REPLACEMENT

- This model uses the memory IC.
- This memory IC stores data for proper operation of the video and drive circuits.
- When replacing, be sure to use an IC containing this (initial value) data.

3.2.1 MEMORY IC REPLACEMENT PROCEDURE

1. Power off

Switch off the power and disconnect the power plug.

2. Replace the memory IC

Be sure to use a memory IC written with the initial setting data.

3. Power on

Connect the power cord to the wall outlet and switch on the power.

4. Receiving channel setting

Refer to the OPERATING INSTRUCTIONS (USER'S GUIDE) and set the receive channels (Channels Preset) as described.

5. User settings

Check the user setting items according to the "FACTORY SETTING ITEM" table.

Where these do not agree, refer to the OPERATING INSTRUCTIONS (USER'S GUIDE) and set the items as described.

6. SERVICE MODE setting

Verify what to set in the SERVICE MODE, and set whatever is necessary(Fig.1) .

Refer to the SERVICE ADJUSTMENT for setting.

3.2.2 SERVICE MODE SETTING ITEMS






SERVICE MENU	
1.V/C(S)	2.DEF(D)
3.SOUND(A)	4.OTHERS(F)
5.3L Y/C(LYC)	
7.LOW LIGHT	8.HIGH LIGHT
9.VCO	
11.I2C BUS	12.SYSTEM(SYS)
SELECT BY  	
OPERATE BY  	
EXIT BY 	

Fig.1

Setting items	Settings	Item No.
1. V/C(S) (Video setting)	Adjust	S01~S48
2. DEF(D) (Deflection setting)	Adjust	D01~D33
3. SOUND(A) (Audio setting)	Adjust	A01~A08
4. OTHERS [Do not adjust] (Factory setting)	Fixed	F01~F18
5. 3L Y/C(LYC) [Do not adjust] (Y/C separate setting)	Fixed	LYC01~LYC12
7. LOW LIGHT (White balance setting)	Adjust	---
8. HIGH LIGHT (White balance setting)	Adjust	---
9. VCO (VCO setting)	Adjust	---
11. I2C BUS [Do not adjust] (I ² C BUS setting)	Fixed	---
12.SYSTEM (SYS) (System constant setting)	Fixed	SYS01~SYS26

3.2.3 SETTINGS OF FACTORY SHIPMENT

3.2.3.1 BUTTON OPERATION

Setting item	Setting position
POWER	Off
CHANNEL	CH-02
VOLUME	10

3.2.3.2 REMOTE CONTROL DIRECT OPERATION

Setting item		Setting position
INPUT		TV
CHANNEL		CH-02
VOLUME		10
MUTING		OFF
DISPLAY		OFF
SLEEP TIMER		OFF
THEATER PRO		OFF
VIDEO STATUS		DYNAMIC
ASPECT		REGULAR
SOUND	A.H.S	OFF
	BBE	ON

3.2.3.3 REMOTE CONTROL MENU OPERATION

(1) PICTURE ADJUST

Setting item	Setting position
TINT	0
COLOR	0
PICTURE	+8
BRIGHT	0
DETAIL	+8
COLOR TEMPERATURE	HIGH
NOISE MUTING	ON
VSM	ON

(2) SOUND ADJUST

Setting item	Setting position
BASS	Center
TREBLE	Center
BALANCE	Center
MTS	STEREO
SMART SOUND	OFF

(3) CLOCK / TIMERS

Setting item	Setting position
SET CLOCK	OFF
ON / OFF TIMER	OFF

(4) INITIAL SETUP

Setting item	Setting position
LANGUAGE	ENG.
CLOSED CAPTION	OFF (CC1 / T1)
FRONT PANEL LOCK	OFF
AUTO SHUT OFF	OFF
XDS ID	ON
VIDEO INPUT LEVEL	ON
AUTO TUNER SETUP	CABLE
V-CHIP	OFF
TILT CORRECTION	Center

3.3 REPLACEMENT OF CHIP COMPONENT

3.3.1 CAUTIONS

- (1) Avoid heating for more than 3 seconds.
- (2) Do not rub the electrodes and the resist parts of the pattern.
- (3) When removing a chip part, melt the solder adequately.
- (4) Do not reuse a chip part after removing it.

3.3.2 SOLDERING IRON

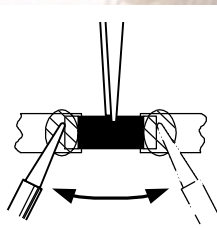
- (1) Use a high insulation soldering iron with a thin pointed end of it.
- (2) A 30w soldering iron is recommended for easily removing parts.

3.3.3 REPLACEMENT STEPS

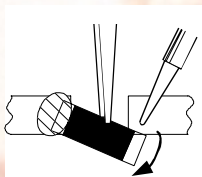
1. How to remove Chip parts

[Resistors, capacitors, etc.]

- (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



- (2) Shift with the tweezers and remove the chip part.

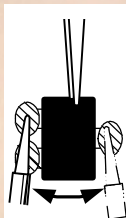


[Transistors, diodes, variable resistors, etc.]

- (1) Apply extra solder to each lead.



- (2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



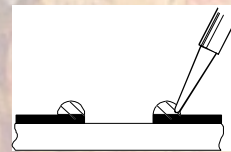
NOTE :

After removing the part, remove remaining solder from the pattern.

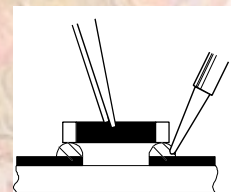
2. How to install Chip parts

[Resistors, capacitors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.

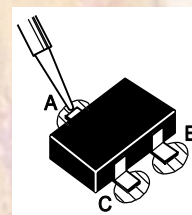


- (2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

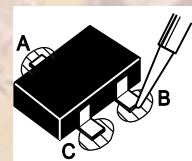


[Transistors, diodes, variable resistors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.
- (2) Grasp the chip part with tweezers and place it on the solder.
- (3) First solder lead **A** as indicated in the figure.



- (4) Then solder leads **B** and **C**.



SECTION 4 ADJUSTMENT

4.1 ADJUSTMENT PREPARATION

- (1) There are 2 ways of adjusting this TV : One is with the **REMOTE CONTROL UNIT** and the other is the conventional method using adjustment parts and components.
- (2) The adjustment using the **REMOTE CONTROL UNIT** is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- (3) Make sure that connection is correctly made AC to AC power source.
- (4) Turn on the power of the TV and measuring instruments for warming up for at least 30 minutes before starting adjustments.
- (5) If the receive or input signal is not specified, use the most appropriate signal for adjustment.
- (6) Never touch the parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.

4.2 PRESET SETTING BEFORE ADJUSTMENTS

Unless otherwise specified in the adjustment items, preset the following functions with the **REMOTE CONTROL UNIT**.

Item	Preset value
VIDEO STATUS	STANDARD
PICTURE adjustment	All 00
COLOR TEMPERATURE	LOW
VSM	OFF
SOUND adjustment	All 00
MTS	STEREO
BBE	OFF
A.H.S	OFF
ASPECT	FULL

4.3 MEASURING INSTRUMENT AND FIXTURES

- DC voltmeter (or digital voltmeter)
- Oscilloscope
- Signal generator (Pattern generator) [NTSC]
- TV audio multiplex signal generator
- Remote control unit

4.4 ADJUSTMENT ITEMS

■CHECK ITEM

- B1 VOLTAGE check
- HIGH VOLTAGE HOLD DOWN check

■FOCUS

- FOCUS adjustment

■DEFLECTION CIRCUIT

- V. SIZE / V. POSITION adjustment
- H. POSITION / H. SIZE / SIDE PIN adjustment

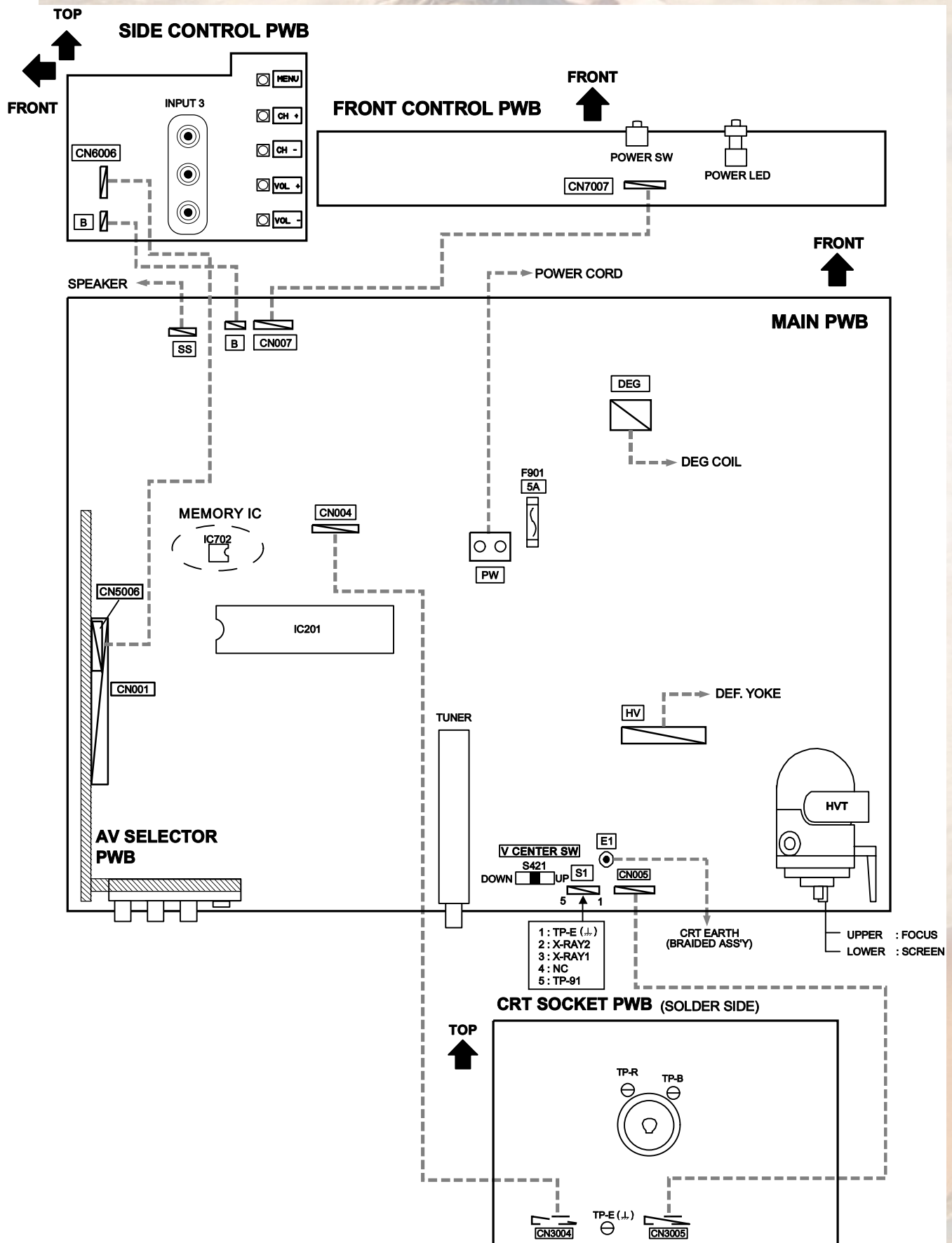
■VIDEO CIRCUIT

- WHITE BALANCE (LOW LIGHT) adjustment
- WHITE BALANCE (HIGH LIGHT) adjustment
- SUB BRIGHT adjustment
- SUB CONTRAST adjustment

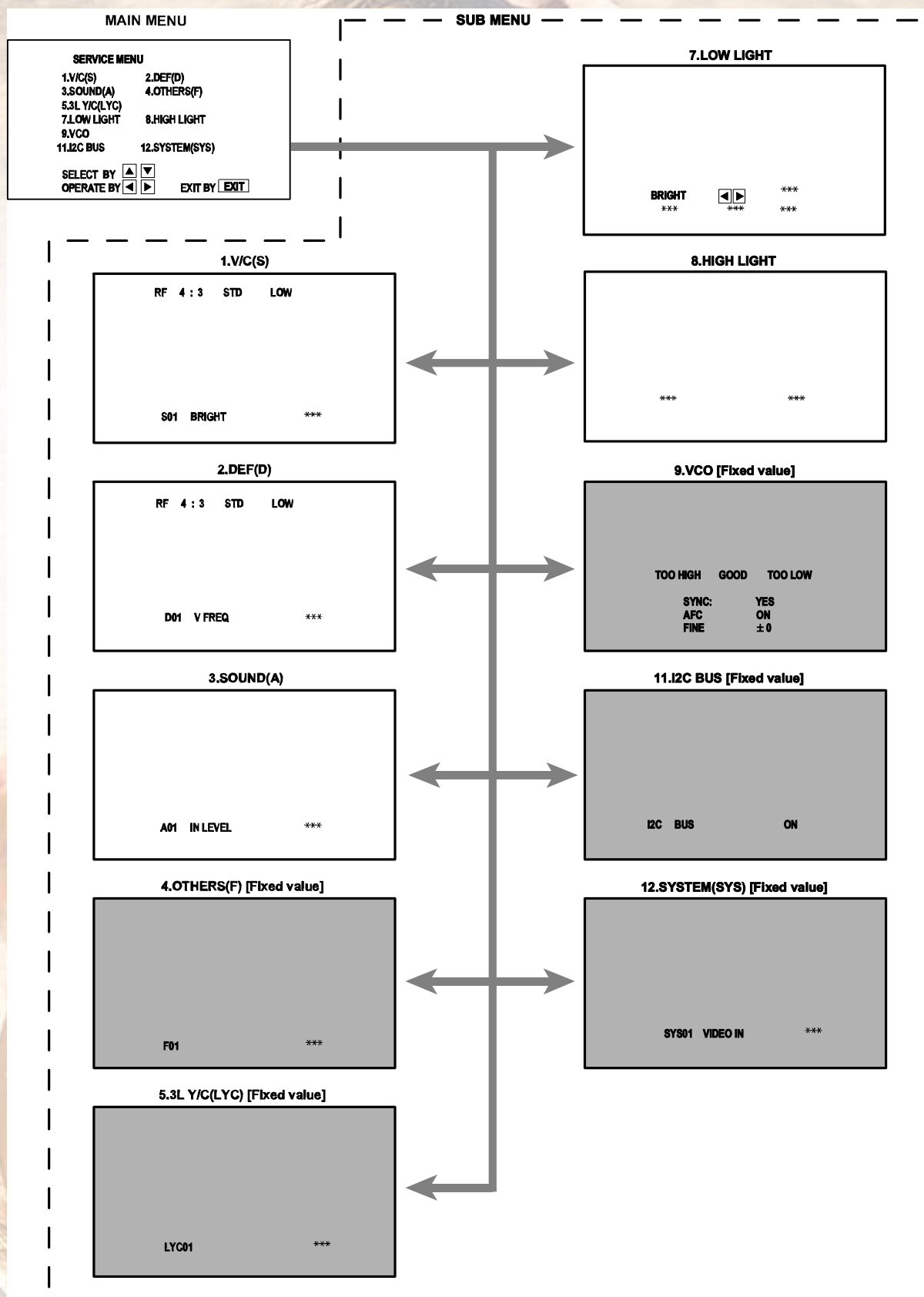
■MTS CIRCUIT

- MTS INPUT LEVEL adjustment
- MTS SEPARATION adjustment

4.5 ADJUSTMENT LOCATIONS



4.6 BASIC OPERATION OF SERVICE MODE



4.6.1 TOOL OF SERVICE MODE OPERATION

Operate the SERVICE MODE with the REMOTE CONTROL UNIT.

4.6.2 SERVICE MODE ITEMS

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

1. V/C (S)	This sets the setting values of the VIDEO circuit.
2. DEF (D)	This sets the setting values of the DEFLECTION circuit.
3. SOUND (A)	This sets the setting values of the AUDIO circuit.
4. OTHERS (F)	This sets the setting values of the factory settings. [Do not adjust]
6. 3L Y/C(LYC)	This sets the setting values of the 3 line YC separation control circuit. [Do not adjust]
7. LOW LIGHT	This sets the setting values of the WHITE BALANCE (LOW LIGHT) control circuit.
8. HIGH LIGHT	This sets the setting values of the WHITE BALANCE (HIGH LIGHT) control circuit.
9. VCO	This sets the setting values of the VCO control circuit. [Do not adjust]
11. I2C BUS	This sets the setting values of the I ² C BUS control circuit. [Do not adjust]
12. SYSTEM(SYS)	This sets the setting values of the system control circuit. [Do not adjust]

4.6.3 HOW TO ENTER THE SERVICE MODE

- (1) Set to 0 minutes using the **[SLEEP TIMER]** key.
- (2) Press the **[VIDEO STATUS]** key and **[DISPLAY]** key simultaneously while "0 MIN" is displayed, then enter the SERVICE MODE.

NOTE:

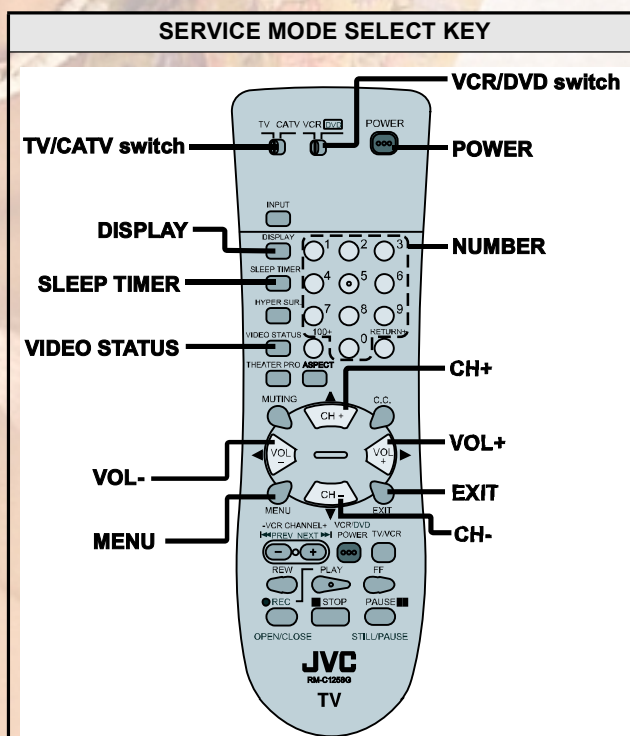
Before entering the SERVICE MODE, confirm that the setting of TV / CATV switch of the REMOTE CONTROL UNIT is at the "TV" side and the setting of VCR / DVD switch is at the "VCR" side. If the switches have not been properly set, you cannot enter the SERVICE MODE.

4.6.4 HOW TO STORE OF SETTING VALUE

The setting value will be stored automatically when release the REMOTE CONTROL UNIT keys

4.6.5 HOW TO EXIT THE SERVICE MODE

Press the **[EXIT]** key to exit the SERVICE MODE.



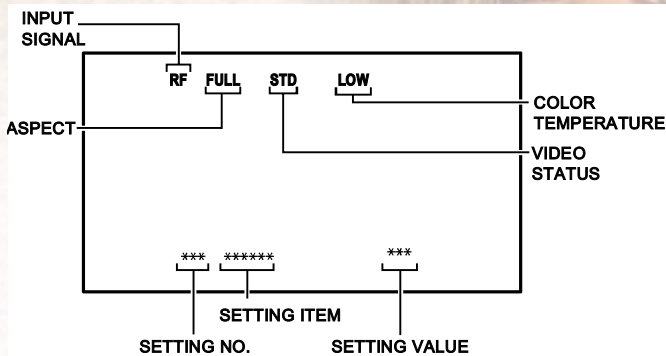
4.6.6 SERVICE MODE SETTING

1. V/C, 2. DEF

- Press **[CH+]** / **[CH-]** key
For scrolling up/down the adjustment item.
- Press **[VOL+]** / **[VOL-]** key
For scrolling up/down the data values.

NOTE:

The setting value will be stored automatically when release the REMOTE CONTROL UNIT keys.



(1) INPUT SIGNAL

- RF : Antenna input
COMP : External (Component) input
EXT : External (S / Composite) input

(2) ASPECT

- FULL : FULL screen mode
REGU : REGULAR screen mode
CINE : CINEMA screen mode
PANO : PANORAMA screen mode

(3) VIDEO STATUS

- STD : STANDARD
THEA : THEATER

(4) COLOR TEMPERATURE

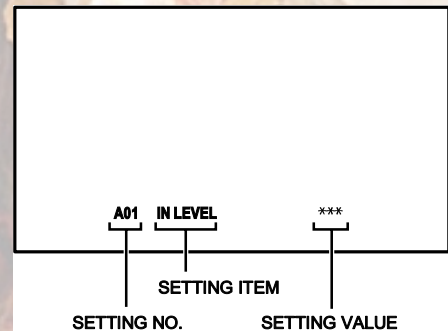
- HIGH : White balance high mode
LOW : White balance low mode

3. SOUND (A)

- Press **[CH+]** / **[CH-]** key
For scrolling up/down the adjustment item.
- Press **[VOL+]** / **[VOL-]** key
For scrolling up/down the data values.

NOTE:

The setting value will be stored automatically when release the REMOTE CONTROL UNIT keys.

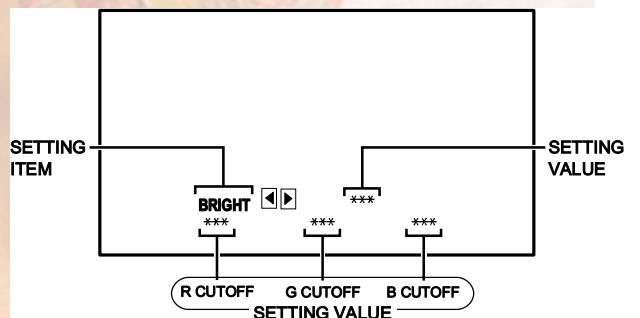


7. LOW LIGHT

The setting for the WHITE BALANCE (LOW LIGHT) control circuit.

NOTE:

The setting value will be stored automatically when release the REMOTE CONTROL UNIT keys.

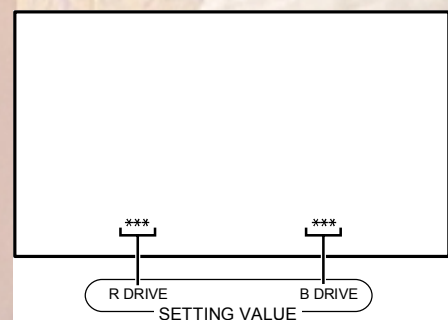


8. HIGH LIGHT

The setting for the WHITE BALANCE (HIGH LIGHT) control circuit.

NOTE:

The setting value will be stored automatically when release the REMOTE CONTROL UNIT keys.



4.7 INITIAL SETTING VALUE OF SERVICE MODE

- (1) Adjustment of the SERVICE MODE is made on the basis of the initial setting values ; however, the new setting values which set the screen in its optimum condition may differ from the initial setting.
- (2) Do not change the initial setting values of the setting items NOT LISTED IN ADJUSTMENT PROCEDURE.
- (3) --- : This mark described in each table shows "Cannot adjust it."

4.7.1 [1.V/C(S)]

No.	Setting item	Variable range	Initial setting value							
			RF							
			STANDARD				THEATER			
			REGULAR	PANORAMA	CINEMA	FULL	REGULAR	PANORAMA	CINEMA	FULL
S01	BRIGHT	0 to 127	64	---	---	---	---	---	---	---
S02	PICTURE	0 to 127	55	---	---	---	---	---	---	---
S03	COLOR	0 to 127	45	---	---	---	---	---	---	---
S04	TINT	0 to 127	56	---	---	---	---	---	---	---
S05	DETAIL	0 to 63	35	---	---	---	---	---	---	---
S06	BRIGHT+-	-32 to +32	---	±0	±0	±0	+3	---	---	---
S07	PICT+-	-32 to +32	---	+5	+5	+5	-7	---	---	---
S08	COLOR+-	-32 to +32	---	+1	+1	+1	-3	---	---	---
S09	TINT+-	-32 to +32	---	±0	±0	±0	-3	---	---	---
S10	DETAIL+-	-32 to +32	---	---	---	---	±0	---	---	---

No.	Setting item	Variable range	Initial setting value	
			EXTERNAL (S / COMPOSITE)	EXTERNAL (COMPONENT)
S01	BRIGHT	0 to 127	---	---
S02	PICTURE	0 to 127	---	---
S03	COLOR	0 to 127	---	42
S04	TINT	0 to 127	---	77
S05	DETAIL	0 to 63	40	40
S06	BRIGHT+-	-32 to +32	+4	-2
S07	PICT+-	-32 to +32	+3	+2
S08	COLOR+-	-32 to +32	-3	---
S09	TINT+-	-32 to +32	+5	---
S10	DETAIL+-	-32 to +32	---	---

No.	Setting item	Variable range	Initial setting value							
			RF / EXTERNAL (S / COMPOSITE)				EXTERNAL (COMPONENT)			
			STANDARD		THEATER		STANDARD		THEATER	
			LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
S11	R CUT OFF	0 to 255	30	---	---	---	---	---	---	---
S12	G CUT OFF	0 to 255	30	---	---	---	---	---	---	---
S13	B CUT OFF	0 to 255	30	---	---	---	---	---	---	---
S14	R DRIVE	0 to 127	64	---	---	---	---	---	---	---
S15	B DRIVE	0 to 127	64	---	---	---	---	---	---	---
S16	R CUT +-	-128 to +127	---	±0	±0	±0	±0	---	---	---
S17	G CUT +-	-128 to +127	---	±0	±0	±0	±0	---	---	---
S18	B CUT +-	-128 to +127	---	±0	±0	±0	±0	---	---	---
S19	R DRV +-	-128 to +127	---	+5	+13	+7	±0	---	---	---
S20	B DRV +-	-128 to +127	---	+6	-25	-9	±0	---	---	---

No.	Setting item	Variable range	Initial setting value							
			RF / EXTERNAL (S / COMPOSITE)				EXTERNAL (COMPONENT)			
			STANDARD		THEATER		STANDARD		THEATER	
			LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
S21	NTSC MAT	0 to 3	3	3	1	1	2	2	1	1
S22	BLACK ST	0 to 3	3	---	2	---	---	---	---	---
S23	DC REST	0 to 1	1	---	1	---	---	---	---	---
S24	DCRSW	0 to 1	1	---	1	---	---	---	---	---

No.	Setting item	Variable range	Initial setting value		
			RF	EXTERNAL (S / COMPOSITE)	EXTERNAL (COMPONENT)
S25	ASSY SHRP	0 to 7	4	4	4
S26	BPF FO	0 to 1	0	0	---
S27	KILR OFF	0 to 1	0	0	---
S28	KILR SEN	0 to 1	1	1	---

No.	Setting item	Variable range	Initial setting value
S29	RGB MUTE	0 to 1	0
S30	BLUE B	0 to 1	0
S31	VIDEO SW	0 to 3	3
S32	CMP ABCL	0 to 1	0
S33	OSD ABL	0 to 1	0
S34	OSD CONT	0 to 63	3
S35	SUB CONT	0 to 15	3
S36	ABL GAIN	0 to 3	0
S37	ABL PNT	0 to 3	3
S38	Y GAMMA	0 to 3	1
S39	Y MUTE	0 to 1	0
S40	SVM GAIN	0 to 3	3
S41	SVM PH	0 to 3	2
S42	WPL	0 to 1	0
S43	COL GMM	0 to 1	0
S44	V1 GAIN	0 to 7	4
S46	VMOFF DE	-128 to +127	+3
S47	APC CLK	0 to 1	1
S48	PIP ADJ	0 to 15	8

4.7.2 [2. DEF (D)]

No.	Setting item	Variable range	Initial setting value							
			RF				EXTERNAL			
			FULL	CINEMA	PANORAMA	REGULAR	FULL	CINEMA	PANORAMA	REGULAR
D01	V FREQ	0 to 3	0	0	0	0	3	3	3	3
D02	AFC GAIN	0 to 3	0	0	0	0	2	2	2	2
D03	H POSI	0 to 31	23	---	---	---	23	---	---	---
D04	H POSI+-	-128 to +127	---	±0	±0	±0	---	±0	±0	±0
D05	V PHASE	0 to 7	3	---	---	---	3	---	---	---
D06	V PH+-	-128 to +127	---	±0	±0	±0	---	±0	±0	±0
D07	V SIZE	0 to 127	37	---	---	---	37	---	---	---
D08	V SIZE+-	-128 to +127	---	+13	+6	-1	-	+13	+7	-1
D09	V CENTER	0 to 63	32	---	---	---	32	---	---	---
D10	V CENT+-	-128 to +127	---	±0	±0	±0	-	±0	±0	±0
D11	V S CORR	0 to 15	6	---	---	---	6	---	---	---
D12	V S CO+-	-128 to +127	---	±0	±0	±0	---	±0	±0	±0
D13	V LIN	0 to 15	11	---	---	---	11	---	---	---
D14	V LIN+-	-128 to +127	---	±0	±0	±0	-	±0	±0	±0
D15	H SIZE	0 to 63	30	---	---	---	30	---	---	---
D16	H SIZE+-	-128 to +127	---	±0	-75	+21	-	±0	-7	+20
D17	WVMT TOP	0 to 3	0	0	---	---	0	0	---	---
D18	WVMT BTM	0 to 3	0	0	---	---	0	0	---	---
D19	EWCR TOP	0 to 31	17	---	---	---	16	---	---	---
D20	EWCR T+-	-128 to +127	---	±0	+1	±0	---	±0	+1	±0
D21	EWCR BTM	0 to 31	16	---	---	---	16	---	---	---
D22	EWCR B+-	-128 to +127	---	±0	±0	±0	---	±0	±0	±0
D23	EW PARA	0 to 63	194	---	---	---	18	---	---	---
D24	EW PARA+-	-128 to +127	---	+6	+3	-2	---	+6	+3	-1
D25	V EHT	0 to 7	0	---	---	---	0	---	---	---
D26	V EHT+-	-128 to +127	---	±0	±0	±0	---	±0	±0	±0
D27	H EHT	0 to 7	0	---	---	---	0	---	---	---
D28	H EHT+-	-128 to +127	---	±0	±0	±0	---	±0	±0	±0
D29	TRAPEZ	0 to 63	330	---	---	---	330	---	---	---
D30	TRAPEZ+-	-128 to +127	---	±0	±0	±0	---	±0	±0	±0
D31	V AGC	0 to 1	0	0	0	0	0	0	0	0
D32	BLANK SW	0 to 1	0	0	-	0	0	0	---	0
D33	VRMP BI	0 to 1	0	0	0	0	0	0	0	0

4.7.3 [3. SOUND(A)]

No.	Setting item	Variable range	Initial setting value
A01	IN LEVEL	0 to 15	9
A02	LOW SEP	0 to 63	39
A03	HI SEP	0 to 63	38
A04	SAPC	0 to 1	0
A05	BBE BASS	-128 to +127	+6
A06	BBE TRE	-128 to +127	-2
A07	AHS MVE	-128 to +127	±0
A08	AHS MSC	-128 to +127	±0

4.7.4 [4. OTHERS(F)] [Do not adjust : All fixed]

No.	Setting item	Variable range	Initial setting value
F01	OSD POSI	0 to 255	42
F02	OSD FREQ	0 to 255	90
F03	CCD POSI	0 to 255	45
F04	CCD FREQ	0 to 255	91
F05	CCD CONT	0 to 63	4
F06	PUR WBCK	0 to 1	0
F07	PUR CONT	0 to 63	2
F08	CCD PCHK	0 to 1	1
F09	VMOFF	0 to 1	0
F10	VNR CHK	0 to 255	3
F11	VCSN TM	0 to 255	5
F12	VM DAT A	-128 to +127	+8
F13	VM DAT B	-128 to +127	-8
F14	VM DAT C	-128 to +127	-20
F15	VM DAT D	-128 to +127	-32
F16	VM DAT E	0 to 1	1
F17	XDSID TM	0 to 255	15
F18	FM TRAP	0 to 1	0

4.7.5 [5. 3L Y/C(LYC)] [Do not adjust : All fixed]

No.	Setting item	Variable range	Initial setting value
LYC01	MODE	0 to 7	4
LYC02	VENH	0 to 7	1
LYC03	PDSOFF	0 to 1	0
LYC04	CB	0 to 1	0
LYC05	VNLR	0 to 15	2
LYC06	GSEL0	0 to 1	0
LYC07	GSEL1	0 to 1	1
LYC08	COR	0 to 3	0
LYC09	TRAP	0 to 1	1
LYC10	CHTRAP	0 to 1	0
LYC11	CBPF	0 to 1	0
LYC12	ENHOFF	0 to 1	0

4.7.6 [12. SYSTEM(SYS)] [Do not adjust : All fixed]

No.	Setting item	Variable range	Initial setting value
SYS01	VIDEO IN	0 to 4	3
SYS02	VSM	0 to 1	1
SYS03	CLR TEMP	0 to 1	1
SYS04	THEATER	0 to 1	1
SYS05	THEA PRO	0 to 1	1
SYS06	GAME MD	0 to 1	0
SYS07	AHS	0 to 1	0
SYS08	HYPER SR	0 to 1	1
SYS09	BBE	0 to 1	1
SYS10	S SOUND	0 to 1	1
SYS11	16:9 MD	0 to 3	0
SYS12	S CCD	0 to 1	1
SYS13	ID DISP	0 to 1	1
SYS14	CH LAB	0 to 1	1
SYS15	V LAB	0 to 1	1
SYS16	W CLOCK	0 to 1	1
SYS17	PIM	0 to 1	1
SYS18	PURITY	0 to 1	0
SYS19	VOL MUTE	0 to 1	1
SYS20	VCHIP	0 to 1	1
SYS21	VCHIP CA	0 to 1	1
SYS22	CCD	0 to 1	1
SYS23	HYPSCAN	0 to 1	1
SYS24	JVC LOGO	0 to 1	1
SYS25	ASPECT	0 to 1	1
SYS26	TILT	0 to 1	1

4.8 ADJUSTMENT PROCEDURE

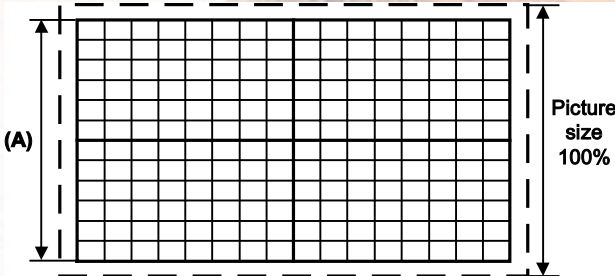
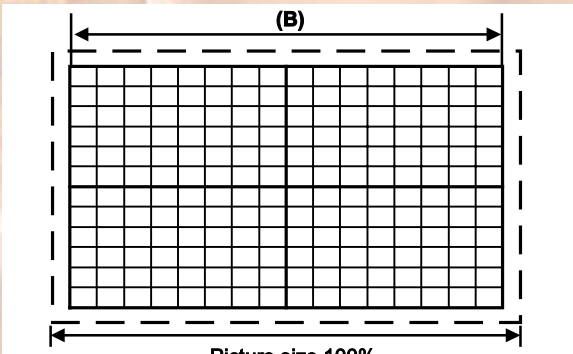
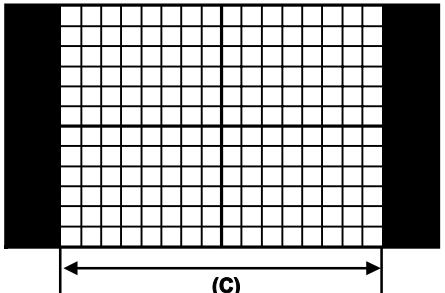
4.8.1 CHECK ITEM

Item	Measuring instrument	Test point	Adjustment part	Description
B1 VOLTAGE	DC voltmeter	S1 Connector 1-pin : TP-E 5-pin : TP-91B [MAIN PWB]		(1) Receive the black and white signal. (color off) (2) Connect the DC voltmeter to the 1-pin and 5-pin of S1 connector . (3) Confirm that the voltage is DC134.5V±2V .
HIGH VOLTAGE HOLD DOWN	Resistor (22kΩ, 1/4W)	S1 connector 2-pin : X-RAY2 3-pin : X-RAY1 [MAIN PWB]		<ul style="list-style-type: none">After repairing the high voltage hold down circuit. This circuit shall be checked to operate correctly. (1) Turn the power switch to on. (2) Refer to the figure, connect the resistor between 2-pin and 3-pin of S1 connector. (3) Make sure that the screen picture disappears. (4) Disconnect the power plug. (5) Remove the resistor. (6) Again connect the power plug. (7) Turn the power switch to on. (8) Make sure that the normal picture is displayed on the screen.

4.8.2 FOCUS

Item	Measuring instrument	Test point	Adjustment part	Description
FOCUS	Signal generator		FOCUS VR [In HVT]	(1) Receive the crosshatch signal. (2) While watching at the screen, adjust FOCUS VR to the vertical and horizontal lines will be thinnest and sharpest center horizontal line. (3) Make sure that the picture is in focus even when the screen gets darkened.

4.8.3 DEFLECTION CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description										
V. SIZE / V. POSITION	Signal generator Remote control unit		[2.DEF (D)] D05: V PHASE D07: V SIZE D08: V SIZE+- D14: V LIN+- D19: EWCR TOP D21: EWCR BTM V. CENTER SW (S421)[MAIN PWB]	<ol style="list-style-type: none"> (1) Receive the crosshatch signal. (2) Set the ASPECT to FULL mode. (3) Select 2.DEF(D) from the SERVICE MODE. (4) Select < D05 > (V PHASE). (5) Set the initial setting of < D05 >. (6) Adjust V. CENTER SW to agree the vertical center with display center. (7) Select < D07 > (V SIZE). (8) Adjust < D07 > to the vertical screen size become setting value as shown in the table given left. (9) Set the ASPECT to REGULAR mode. (10) Adjust < D08 > (V SIZE+-) and < D14 > (V LIN+-) to the vertical screen size (A) become setting value as shown in the table given left. (11) Set the ASPECT to PANORAMA mode. (12) Repeat the step 10. as above. (13) Set the ASPECT to CINEMA mode. (14) Repeat the step 10. as above. <p>NOTE :</p> <ul style="list-style-type: none"> • Bottom is to be located within 85% - 95% range. • If the vertical upper and bottom corner line is not straight, adjust the upper and bottom corner pin by < D19 > (EWCR TOP) and < D21 > (EWCR BTM). 										
 <table border="1" data-bbox="236 922 810 1012"> <thead> <tr> <th></th><th>FULL</th><th>REGULAR</th><th>PANORAMA</th><th>CINEMA</th></tr> </thead> <tbody> <tr> <td>(A)</td><td>92%</td><td>92%</td><td>85%</td><td>80%</td></tr> </tbody> </table>						FULL	REGULAR	PANORAMA	CINEMA	(A)	92%	92%	85%	80%
	FULL	REGULAR	PANORAMA	CINEMA										
(A)	92%	92%	85%	80%										
H. SIZE / H. POSITION / SIDE PIN	Signal generator Remote control unit		[2.DEF (D)] D03: H POSI D04: H POSI+- D15: H SIZE D16: H SIZE+- D23: EW PARA D19: EWCR TOP D21: EWCR BTM	<ul style="list-style-type: none"> • V. SIZE / V. POSITION adjustment should be finished. <ol style="list-style-type: none"> (1) Receive the crosshatch signal. (2) Set the ASPECT to FULL mode. (3) Select 2.DEF(D) from the SERVICE MODE. (4) Select < D03 > (H POSI). (5) Adjust < D03 > to the left width and right width of the crosshatch screen becomes equal. (6) Select < D15 > (H SIZE). (7) Adjust < D15 > to the horizontal screen size become setting value as shown in the table given left. (8) Adjust < D23 > (EW PARA) to the vertical line at both side to become linear line. (9) Confirm the linearity of vertical line and horizontal size and If it is necessary, readjust steps 4 to 5. (10) Set the ASPECT to CINEMA mode. (11) Adjust < D04 > (H POSI+-) and < D16 > (H SIZE+-) so that the horizontal screen size become setting value as shown in the table given left. (12) Adjust < D23 > (EW PARA) to the vertical line at both side to become linear line. (13) Set the ASPECT to PANORAMA mode. (14) Repeat the steps 11 to 12 as above. (15) Set the ASPECT to REGULAR mode. (16) Repeat the steps 11 to 12 as above. (17) Adjust the < D16 > (H SIZE+-) to the screen size (C) become setting value as 497mm. <p>NOTE :</p> <ul style="list-style-type: none"> • If it is not straight the vertical upper and bottom corner line adjustment the upper and bottom corner pin by < D19 > (EWCR TOP) and < D21 > (EWCR BTM). 										
 <table border="1" data-bbox="242 1646 817 1736"> <thead> <tr> <th></th><th>FULL</th><th>CINEMA</th><th>PANORAMA</th><th>REGULAR</th></tr> </thead> <tbody> <tr> <td>(B)</td><td>92%</td><td>92%</td><td>93%</td><td>92%</td></tr> </tbody> </table> 						FULL	CINEMA	PANORAMA	REGULAR	(B)	92%	92%	93%	92%
	FULL	CINEMA	PANORAMA	REGULAR										
(B)	92%	92%	93%	92%										

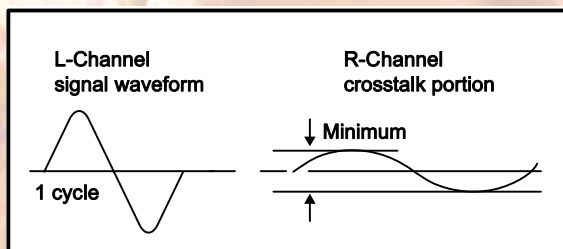
4.8.4 VIDEO CIRCUIT


Item	Measuring instrument	Test point	Adjustment part	Description
WHITE BALANCE (LOW LIGHT)	Signal generator		[1.V/C (S)] S01: BRIGHT S11: R CUTOFF S12: G CUTOFF S13: B CUTOFF	(1) Receive the black and white signal (color off). (2) Select the 1.V/C (S) from the SERVICE MODE. (3) Confirm the initial setting value of < S11 > (R CUTOFF), < S12 > (G CUTOFF), < S13 > (B CUTOFF) and < S01 > (BRIGHT). (4) Return to the main menu in SERVICE MODE. (5) Select the 7.LOW LIGHT from the SERVICE MODE. (6) Display a single horizontal line by pressing the [1] key. (7) Turn the SCREEN VR all the way to the left. (8) Turn the SCREEN VR gradually to the right from the left until either one of the red, blue or green colors appears faintly. (9) Adjust the two colors which did not appear until the single horizontal line that is displayed becomes white using the [4] to [9] keys. (10) Turn the SCREEN VR until the single horizontal line is displayed faintly. (11) Press the [2] key to cancel the single horizontal line mode. (12) Return to the main menu in SERVICE MODE. (13) Select the 1.V/C (S) from the SERVICE MODE. (14) Adjust the BRIGHT level to become the black component shines white slightly by < S01 > . (15) Confirm that whether the color ingredient of R, G, or B is visible to the black component, which shines white slightly. (16) When the color ingredient can be seen, two colors other than a visible color are adjusted, and it is made to look white. (17) Return the value of < S01 > to initial setting value. • The [3] (EXIT) key is the cancel key for the WHITE BALANCE.
	Remote control unit		[7.LOW LIGHT] SCREEN VR [in HVT]	
<div style="border: 1px solid black; padding: 5px; text-align: center;"> REMOTE CONTROL UNIT </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div>H.LINE ON (1)</div> <div>H.LINE OFF (2)</div> <div>EXIT (3)</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div>R CUTOFF▲ (4)</div> <div>G CUTOFF▲ (5)</div> <div>B CUTOFF▲ (6)</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div>R CUTOFF▼ (7)</div> <div>G CUTOFF▼ (8)</div> <div>B CUTOFF▼ (9)</div> </div>				
WHITE BALANCE (HIGH LIGHT)	Signal generator		[1.V/C (S)] S14: R DRIVE S15: B DRIVE	(1) Receive the black and white signal (color off). (2) Select the 1.V/C (S) from the SERVICE MODE. (3) Set the initial setting value of < S14 > (R DRIVE) and < S15 > (B DRIVE). (4) Return to the main menu in SERVICE MODE. (5) Select the 8.HIGH LIGHT from the SERVICE MODE. (6) Adjust the screen until it becomes white using the [4] , [6] , [7] and [9] keys. • The [3] (EXIT) key is the cancel key for the WHITE BALANCE.
	Remote control unit		[8.HIGH LIHGT]	
<div style="border: 1px solid black; padding: 5px; text-align: center;"> REMOTE CONTROL UNIT </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div>(1)</div> <div>(2)</div> <div>EXIT (3)</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div>R DRIVE▲ (4)</div> <div>(5)</div> <div>B DRIVE▲ (6)</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div>R DRIVE▼ (7)</div> <div>(8)</div> <div>B DRIVE▼ (9)</div> </div>				

Item	Measuring instrument	Test point	Adjustment part	Description
SUB BRIGHT	Remote control unit		[1.V/C (S)] S01: BRIGHT	(1) Receive any broadcast. (2) Select the 1.V/C (S) from the SERVICE MODE. (3) Select < S01 > (BRIGHT). (4) Set the initial setting value of < S01 > . (5) If the brightness is not the best with the initial setting value, make fine adjustment of < S01 > until you get the optimum brightness.
SUB CONTRAST	Remote control unit		[1.V/C (S)] S02: PICTURE	(1) Receive any broadcast. (2) Select the 1.V/C (S) from the SERVICE MODE. (3) Select < S02 > (PICTURE). (4) Set the initial setting value of < S02 > . (5) If the contrast is not the best with the initial setting value, make fine adjustment of < S02 > until you get the optimum contrast.

4.8.5 MTS CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
MTS INPUT LEVEL	Remote control unit		[3.SOUND (A)] A01: IN LEVEL	(1) Receive any broadcast. (2) Select the 3.SOUND (A) from the SERVICE MODE. (3) Select < A01 > (IN LEVEL). (4) Set the initial setting value of < A01 > .
MTS SEPARATION	TV audio multiplex signal generator Oscilloscope	R OUT L OUT [AUDIO OUT]	[3.SOUND (A)] A02: LOW SEP. A03: HI SEP.	(1) Input a stereo L signal (300Hz) from a TV audio multiplex signal generator to the antenna terminal. (2) Connect an oscilloscope to R OUT pin of the AUDIO OUT, and display one cycle portion of the 300Hz signal. (3) Select the 3.SOUND (A) from the SERVICE MODE. (4) Select < A02 > (LOW SEP.). (5) Set the initial setting value of < A02 > . (6) Adjust < A02 > so that the stroke element of the 300Hz signal will become minimum. (7) Change the connection of the oscilloscope to L OUT pin of the AUDIO OUT , and enlarge the voltage axis. (8) Change the signal to 3kHz, and similarly adjust < A03 > (HI SEP.).

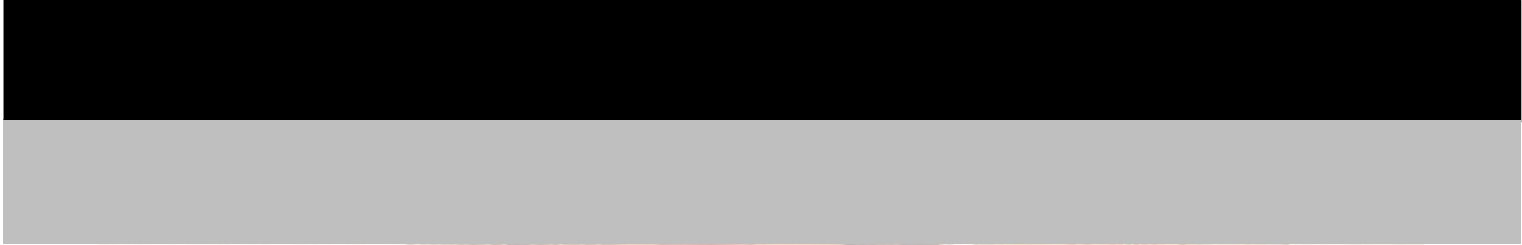
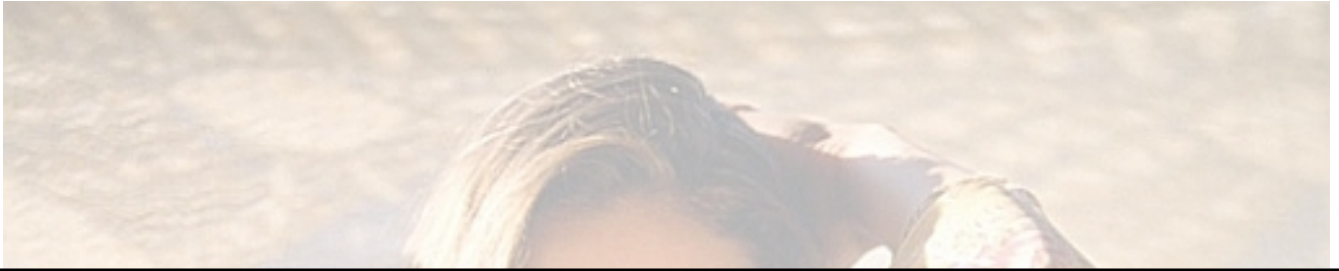


A full-page background image of a woman with long, wavy brown hair, wearing a multi-strand pearl necklace and a yellow floral-patterned shirt. She is posing with her hands behind her head, looking directly at the camera. The background is a soft, out-of-focus light color.

SECTION 5 TROUBLESHOOTING

This service manual does not describe TROUBLESHOOTING.





JVC

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(No.YA246)



Printed in Japan
VPT

JVC

SCHEMATIC DIAGRAMS

COLOR TELEVISION

AV-30W476/s

CD-ROM No.SML200503

BASIC CHASSIS

GW2

*I'Art*TM
BBE



AV-30W476/s

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the \triangle symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

- (1)Input signal : Colour bar signal
- (2)Setting positions of each knob/button and variable resistor : Original setting position when shipped
- (3)Internal resistance of tester : DC 20k Ω /V
- (4)Oscilloscope sweeping time : H \Rightarrow 20 μ s / div
: V \Rightarrow 5ms / div
: Others \Rightarrow Sweeping time is specified
- (5)Voltage values : All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the PW board : R1209 \rightarrow R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

● Resistance value

- No unit : Ω
- K : [k Ω]
- M : [M Ω]

● Rated allowable power

- No indication : 1/16 [W]
- Others : As specified

● Type

- No indication : Carbon resistor
- OMR : Oxide metal film resistor
- MFR : Metal film resistor
- MPR : Metal plate resistor
- UNFR : Uninflamable resistor
- FR : Fusible resistor

* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

● Capacitance value

- 1 or higher : [pF]
- less than 1 : [μ F]

● Withstand voltage

- No indication : DC50[V]
- Others : DC withstand voltage [V]
- AC indicated : AC withstand voltage [V]

* Electrolytic Capacitors

47/50[Example]: Capacitance value [μ F]/withstand voltage[V]

●Type

- No indication : Ceramic capacitor
- MM : Metalized mylar capacitor
- PP : Polypropylene capacitor
- MPP : Metalized polypropylene capacitor
- MF : Metalized film capacitor
- TF : Thin film capacitor
- BP : Bipolar electrolytic capacitor
- TAN : Tantalum capacitor

(3)Colls

- No unit : [μ H]
- Others : As specified

(4)Power Supply



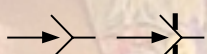
-  : B1
-  : B2 (12V)
-  : 9V
-  : 5V

* Respective voltage values are indicated





(5)Test point

-  : Test point
-  : Only test point display

(6)Connecting method

-  : Connector
-  : Wrapping or soldering
-  : Receptacle

(7)Ground symbol

-  : LIVE side ground
-  : ISOLATED(NEUTRAL) side ground
-  : EARTH ground
-  : DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (\perp) side GND and the ISOLATED(NEUTRAL) : (\perp) side GND. Therefore, care must be taken for the following points.

- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

◆ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

NOTE

◆ Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.
When ordering parts, please use the numbers that appear in the Parts List.

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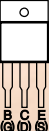
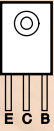

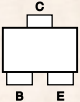
 SIDE CONTROL PWB PATTERN 2-17

USING P.W. BOARD


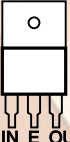
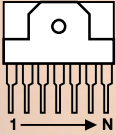
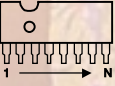
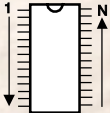
PWB ASS'Y name	PWB ASS'Y No.
MAIN P.W. BOARD	SGW-1011A-M2
CRT SOCKET P.W. BOARD	SGW-3011A-M2
AV SELECTOR P.W. BOARD	SGW-5011A-M2
SIDE CONTROL P.W. BOARD	SGW-6011A-M2
FRONT CONTROL P.W. BOARD	SGW-7011A-M2

SEMICONDUCTOR SHAPES

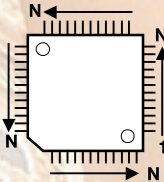
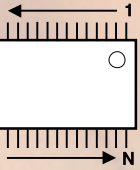
TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

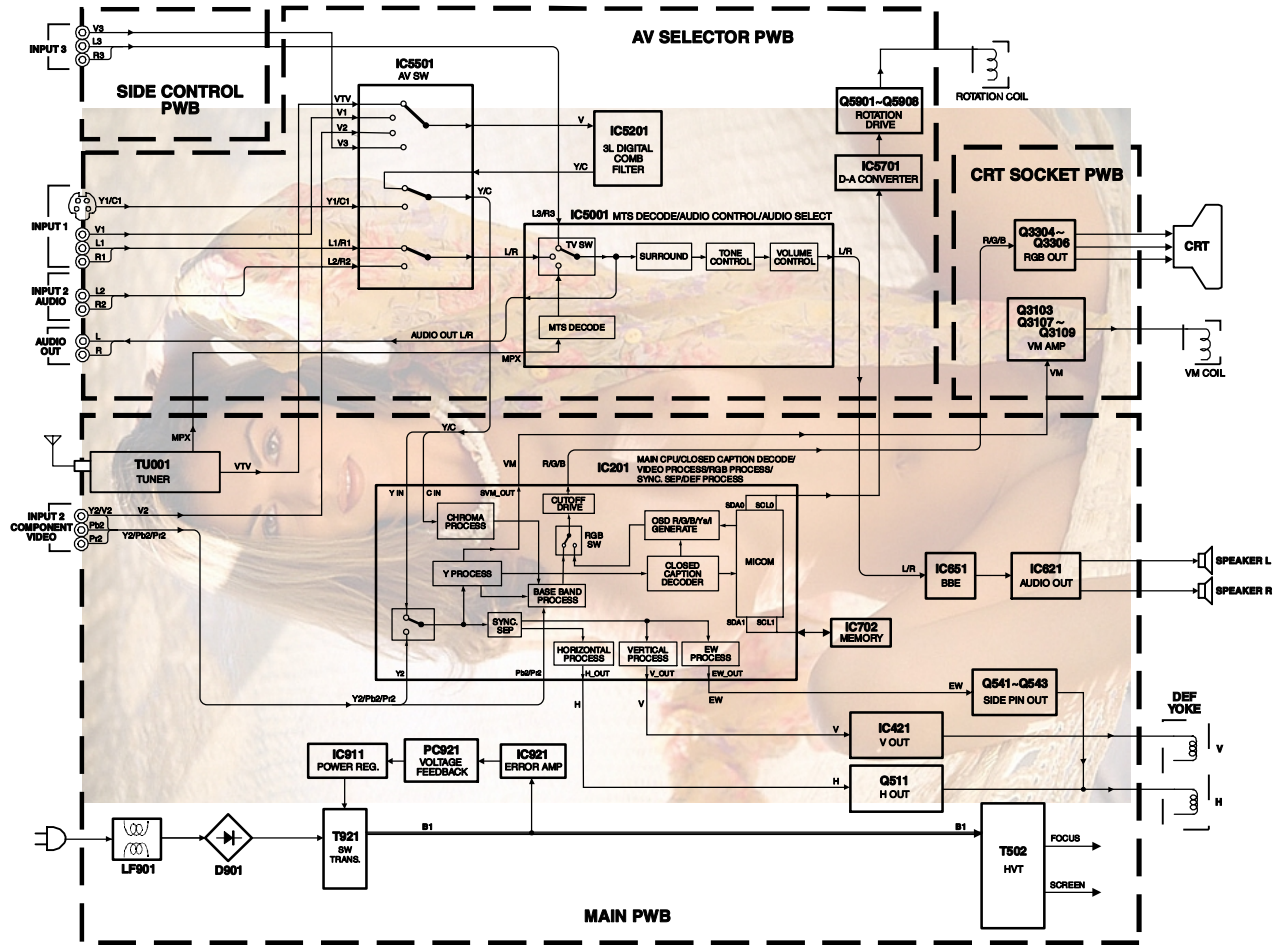
IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

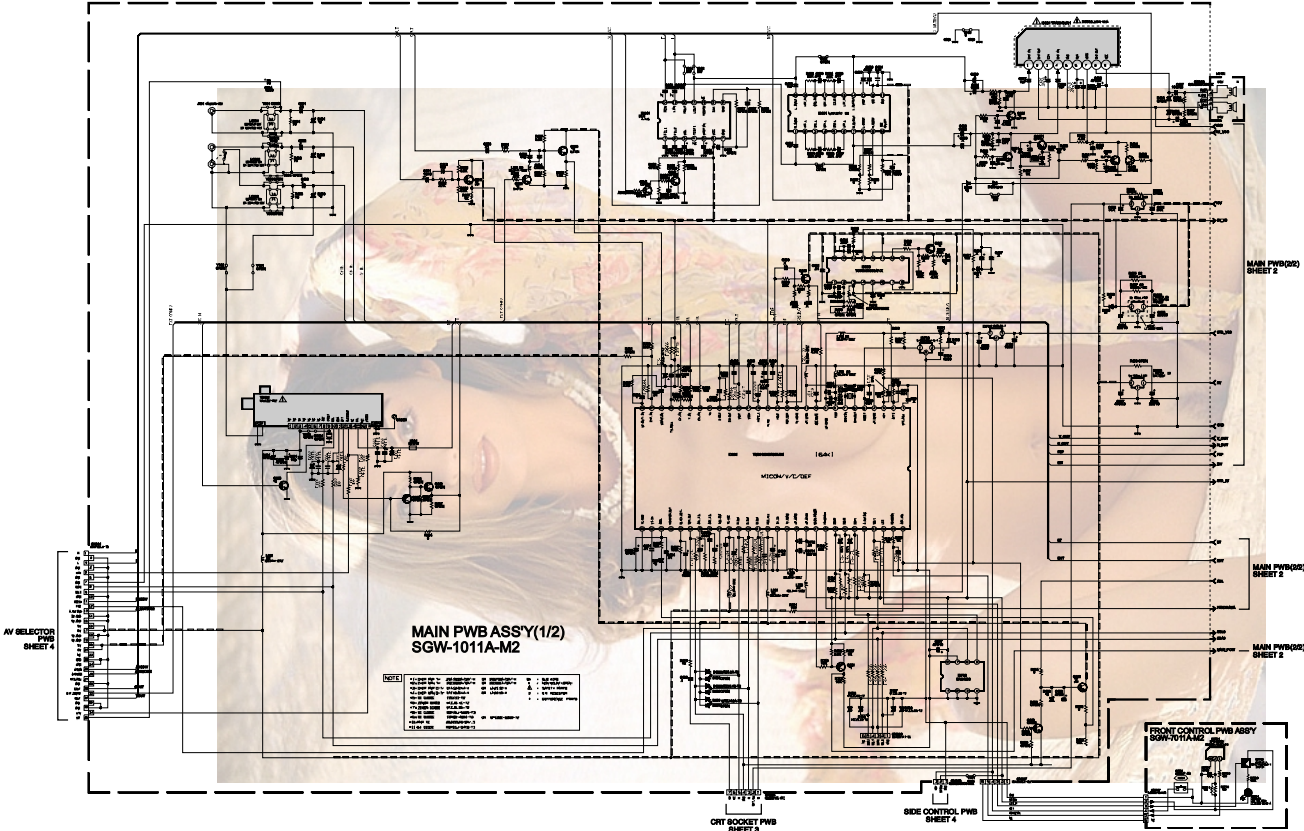
CHIP IC

TOP VIEW		
		

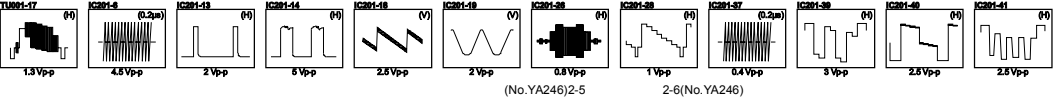
BLOCK DIAGRAM



CIRCUIT DIAGRAMS
MAIN PWB CIRCUIT DIAGRAM (1/2) SHEET1

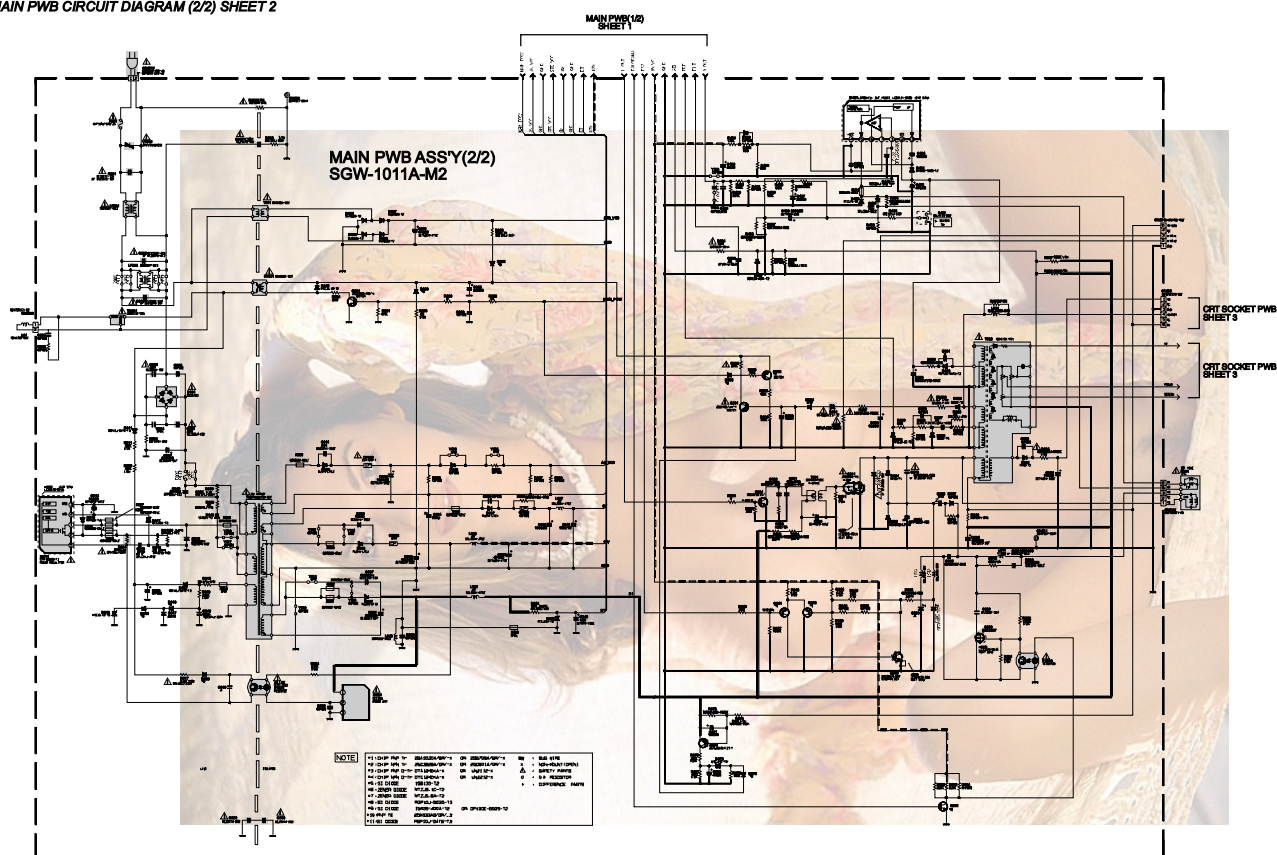


NO.	PCB NO.	DO NO.	NO.	PCB NO.	DO NO.
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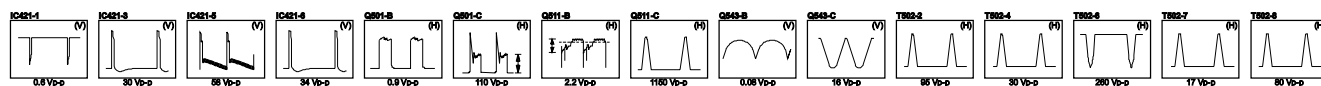


(No. YA246)2-5 2-6(No. YA246)

MAIN PWB CIRCUIT DIAGRAM (2/2) SHEET 2



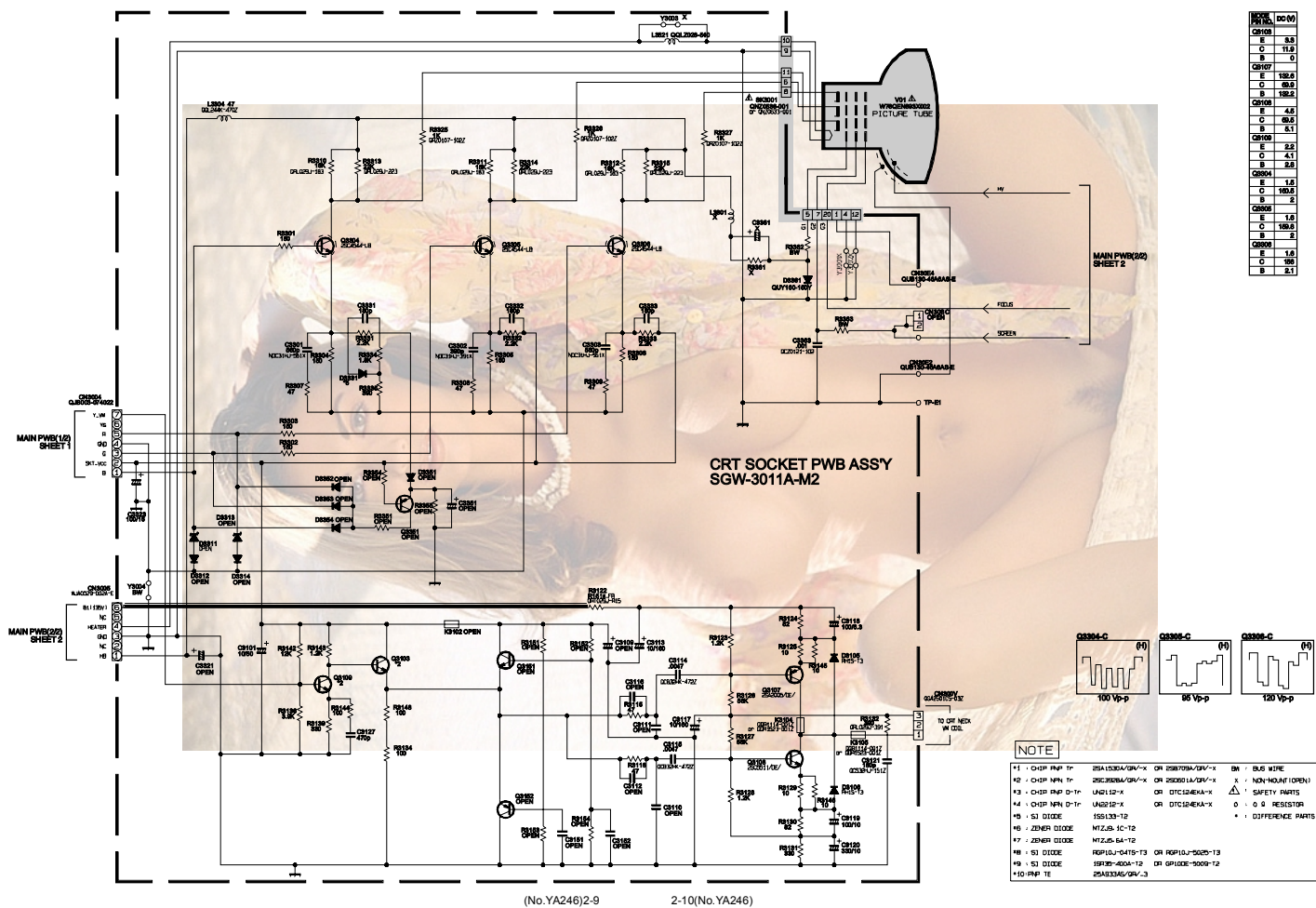
MOOSE PREDATOR	DC (N)
IC0421	1 2.6
	2 27.9
	3 2.5
	4 0
	5 14.5
	6 28.5
	7 2.9
IC0411	1 130.5
	2 0.1
	3 0
	4 18.1
	5 1.7
IC0412	1 134.7
	2 15.1
	3 0
Q001	0 65.7
	1 0.4
Q011	0 0
	1 C -0.1
	2 B 158
Q013	0 9.8
	1 B 0
Q022	0 9.9
	1 C 0
	2 B 9.8
Q041	0 5
	1 C 0.6
	2 B 4.4
Q042	0 8
	1 C 0
	2 B 4.4
Q045	0 15.3
	1 B 0
Q050	0 54
	1 D 22.9
	2 G 25.7
	3 E 0
	4 C 1.1
	5 B 0
Q051	0 0
	1 E 0
	2 C 0.6
	3 B 1
Q071	0 134.6
	1 C 0
	2 B 1
PC001	1 14
	2 18
	3 1.7
	4 18.6
PC020	1 1.1
	2 0
	3 54
	4 23.7

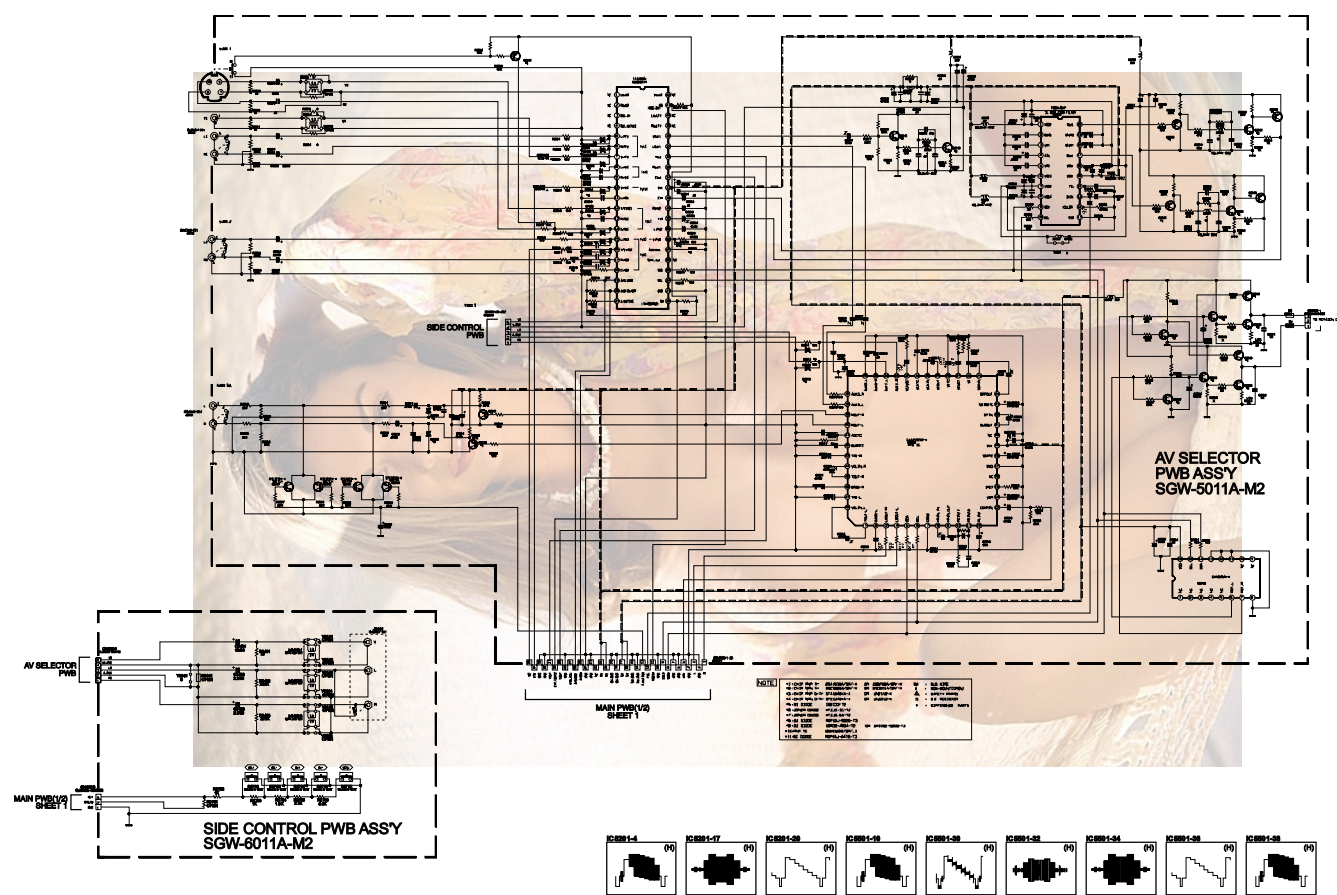


(No. YA246)2-7

2-8(No. YA246)

CRT SOCKET PWB CIRCUIT DIAGRAM SHEET 3



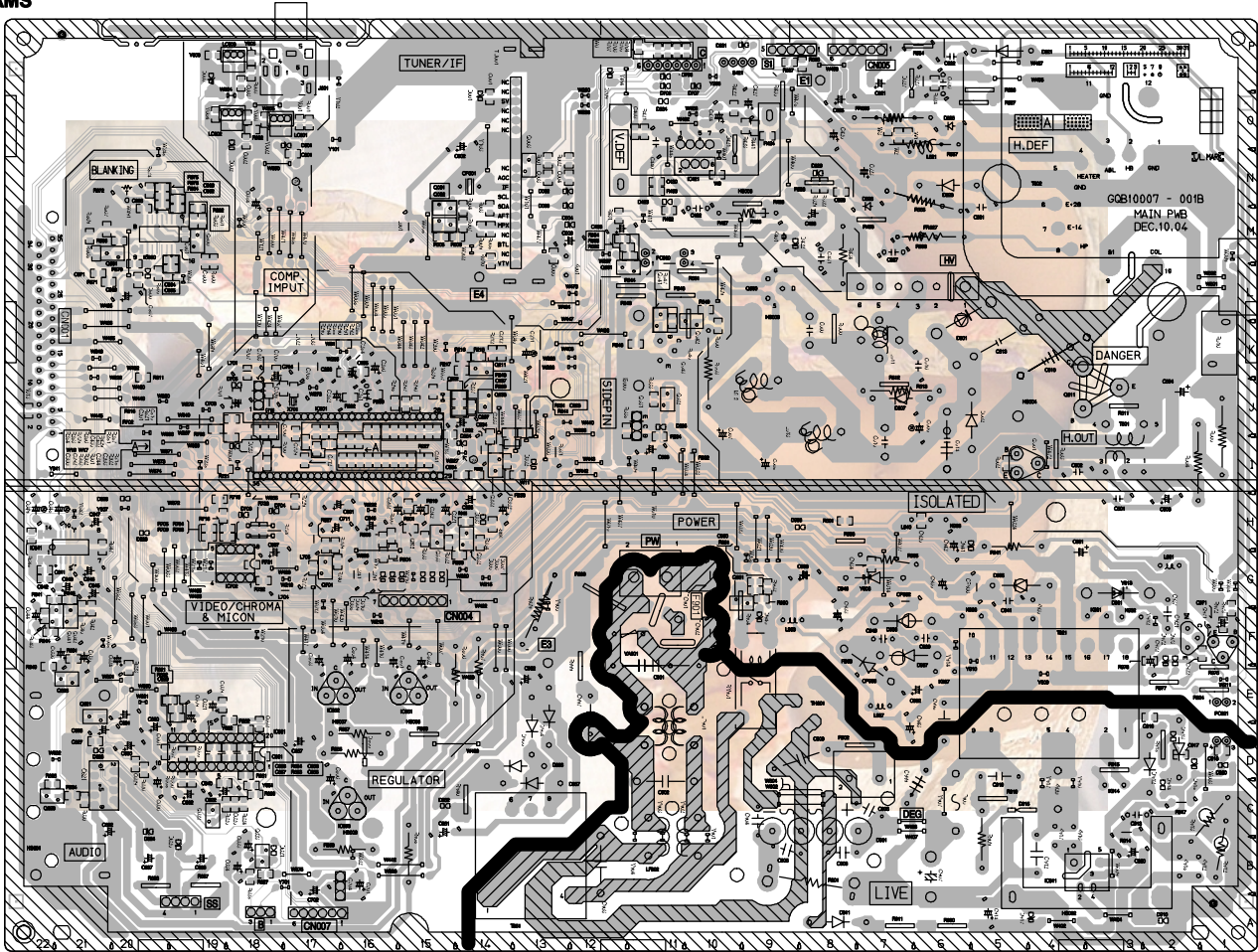


(No. YA246)2-11

2-12(No. YA246)

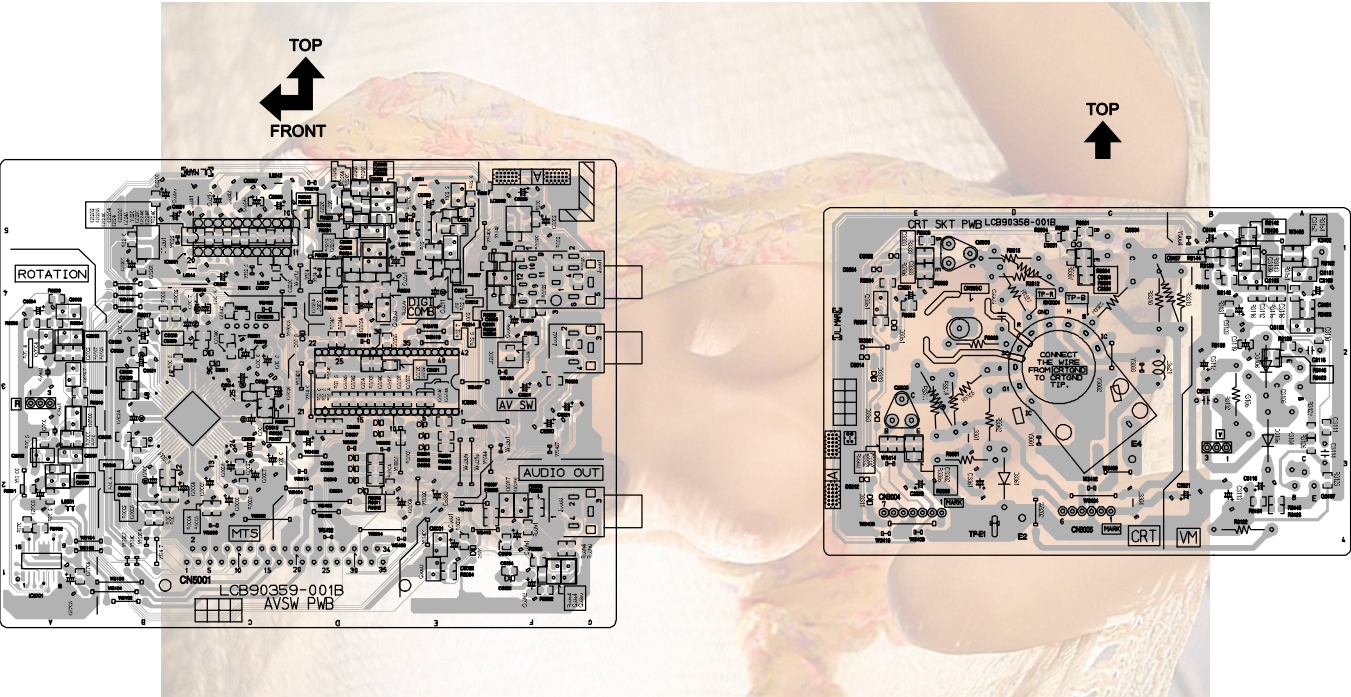
PATTERN DIAGRAMS
MAIN PWB PATTERN

FRONT
↓

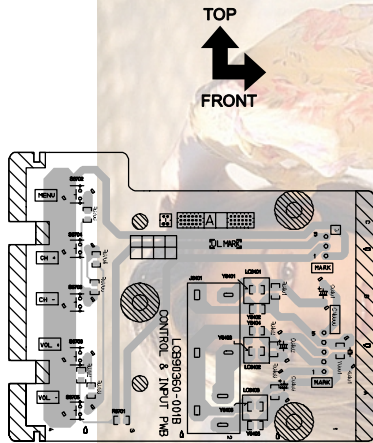


AV SELECTOR PWB PATTERN

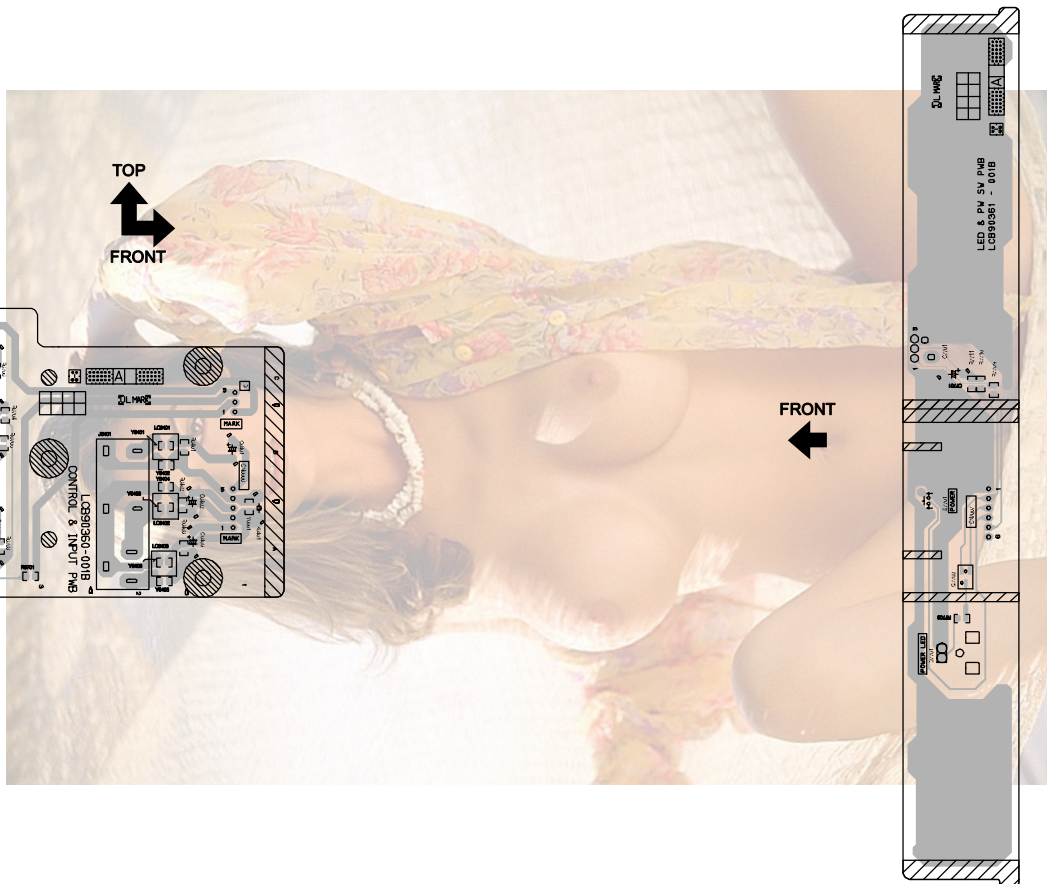
CRT SOCKET PWB PATTERN

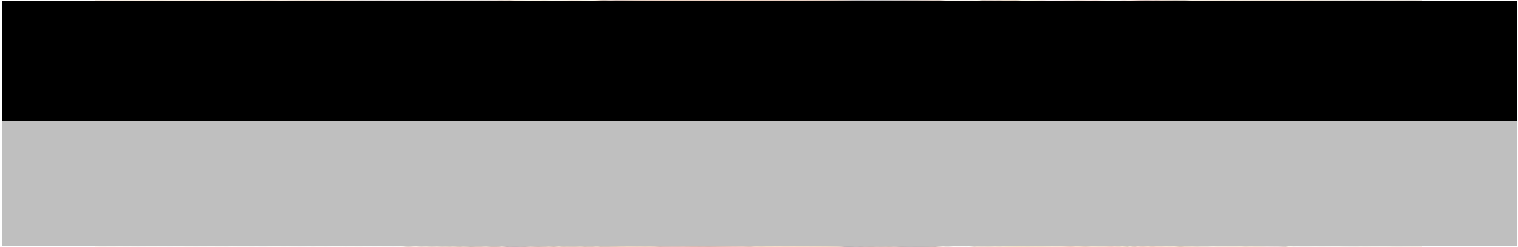
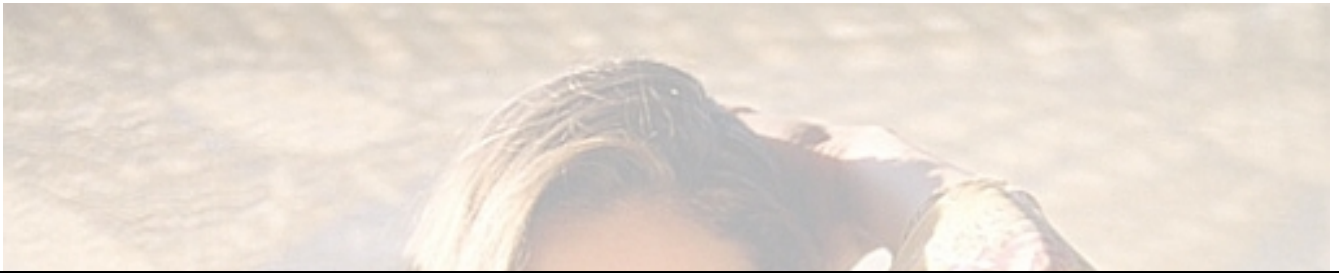


SIDE CONTROL PWB PATTERN



FRONT CONTROL PWB PATTERN





JVC

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(No.YA246)



Printed in Japan
VPT

PARTS LIST

CAUTION

- The parts identified by the \triangle symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Assy will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
CR	Carbon Resistor	C CAP.	Ceramic Capacitor
FR	Fusible Resistor	E CAP.	Electrolytic Capacitor
PR	Plate Resistor	M CAP.	Mylar Capacitor
VR	Variable Resistor	CH CAP.	Chip Capacitor
HV R	High Voltage Resistor	HV CAP.	High Voltage Capacitor
MF R	Metal Film Resistor	MF CAP.	Metalized Film Capacitor
MG R	Metal Glazed Resistor	MM CAP.	Metalized Mylar Capacitor
MP R	Metal Plate Resistor	MP CAP.	Metalized Polystyrol Capacitor
OM R	Metal Oxide Film Resistor	PP CAP.	Polypropylene Capacitor
CMF R	Coating Metal Film Resistor	PS CAP.	Polystyrol Capacitor
UNF R	Non-Flammable Resistor	TF CAP.	Thin Film Capacitor
CH V R	Chip Variable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH MG R	Chip Metal Glazed Resistor	TAN. CAP.	Tantalum Capacitor
COMP. R	Composition Resistor	CH C CAP.	Chip Ceramic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
		CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

RESISTORS									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

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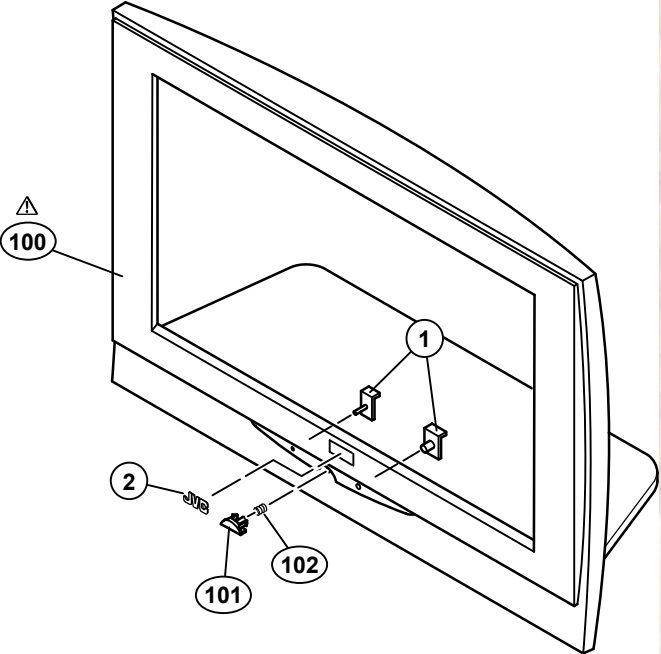
USING P.W. BOARD & REMOTE CONTROL UNIT

P.W.B ASS'Y name	P.W.B ASS'Y number
MAIN P.W.B	SGW-1011A-M2
CRT SOCKET P.W.B	SGW-3011A-M2
AV SELECTOR P.W.B	SGW-5011A-M2
SIDE CONTROL P.W.B	SGW-6011A-M2
FRONT CONTROL P.W.B	SGW-7011A-M2
REMOTE CONTROL UNIT	RM-C1258G-1H

EXPLODED VIEW PARTS LIST -1

△	Ref.No.	Part No.	Part Name	Description	Local
	1	GQ30062-001A-A	REMOCON LENS	2pcs in 1set	
	2	CM48006-010-C	JVC MARK		
△	100	GQ10075-003B-A	FRONT CABINET ASSY	Inc.No.101-102	
	101	GQ30061-001A-A	POWER KNOB		
	102	GQ30063-001A-A	SPRING		

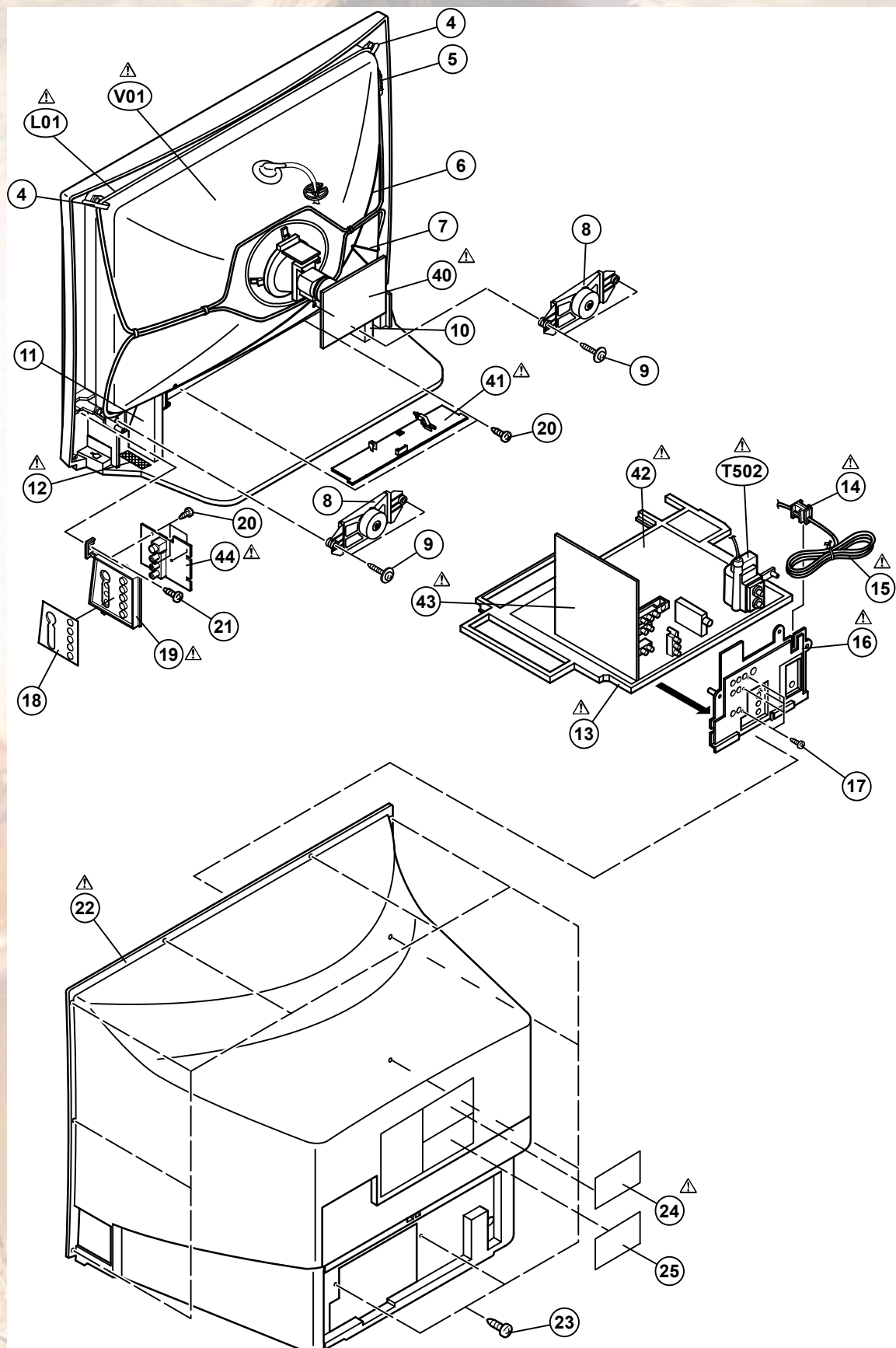
EXPLODED VIEW -1



EXPLODED VIEW PARTS LIST -2

△	Ref.No.	Part No.	Part Name	Description	Local
△	V01	W76QEN693X002	PICTURE TUBE(ITC)	Inc.DEF YOKE/PC MAGNET/WEDGE	
△	L01	QQW0191-001	DEG COIL		
△	T502	QQH0121-001	FB TRANSF		
	4	LC30628-002A	DEG CLAMP	(x4)	
	5	A48457-4-S	SPRING		
	6	WJY0008-003A	E-BRAIDED ASSY		
	7	WJY0013-002A	E-BRAIDED ASSY		
	8	QAS0276-001	SPEAKER	SP01/SP02(x2)	
	9	LC41029-002A-A	TAPPING SCREW	(x4)	
	10	GQ20009-002A-A	CRT SUPPORT(L)		
	11	GQ20009-001A-A	CRT SUPPORT(R)		
△	12	GQ30034-001B-A	WARNING LABEL		
△	13	LC10883-001D-A	CHASSIS BASE		
△	14	LC20106-001D-A	POWER CORD CLAMP		
△	15	QMPD390-200-JS	POWER CORD(US/CA)	2m BLACK	
△	16	LC20899-006A-A	TERMINAL BOARD		
	17	QYSBSB3010Z	TAP SCREW	M3 x 10mm(x4)	
	18	GQ20008-002A-A	OPERATION SHEET		
△	19	GQ20007-001B-A	CONTROL BASE		
	20	QYSBSBG3010Z	TAP SCREW	M3 x 10mm(x5)	
	21	QYSBSFG4016Z	TAP SCREW	M4 x 16mm	
△	22	GQ10074-002A-A	REAR COVER		
	23	QYSBSFG4016Z	TAP SCREW	M4 x 16mm(x10)	
△	24	GQ30032-001A-A	RATING LABEL		
	25	LC32912-001A-A	BBE LABEL		
△	40	SGW-3011A-M2	CRT SOCKET PWB		
△	41	SGW-7011A-M2	FRONT CONTROL PWB		
△	42	SGW-1011A-M2	MAIN PWB		
△	43	SGW-5011A-M2	AV SELECTOR PWB		
△	44	SGW-6011A-M2	SIDE CONTROL PWB		

EXPLODED VIEW -2



PRINTED WIRING BOARD PARTS LIST

MAIN P.W. BOARD ASS'Y (SGW-1011A-M2)

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
IC201	TM8812CSDNG5JB4	IC	(SERVICE)	D952	1SS133-T2	SI DIODE	
IC421	LA78041	IC		D953	1SS133-T2	SI DIODE	
IC621	TFA9843J/N1	IC		D954	1N4002G-T2	SI DIODE	
IC651	NJM2150AD	IC		D955	1N4002G-T2	SI DIODE	
IC702	AT24C08-30W475	IC		D956	1N4002G-T2	SI DIODE	
IC703	S-80840CNY-G-T	IC		D957	1N4002G-T2	SI DIODE	
IC704	AN78L05-T	IC		D972	MTZJ15C-T2	Z DIODE	
IC852	L7809CP	IC		D973	1SS133-T2	SI DIODE	
IC853	L7805CP	IC		C001	NDC31HJ-100X	C CAPACITOR	10pF 50V J
IC860	TC74HC4538AF-X	IC		C002	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M
△IC911	STR-G9626-F3	IC		C202	QETN1HM-105Z	E CAPACITOR	1uF 50V M
△IC921	SE135N	IC		C203	NCB31HK-152X	C CAPACITOR	1500pF 50V K
Q003	UN2212-X	DIGI TRANSISTOR		C211	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M
Q211	2SC3928A/QR/-X	TRANSISTOR		C212	NDC31HJ-100X	C CAPACITOR	10pF 50V J
Q232	2SC3928A/QR/-X	TRANSISTOR		C221	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q233	2SC3928A/QR/-X	TRANSISTOR		C222	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
Q352	2SC3928A/QR/-X	TRANSISTOR		C223	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q501	2SC4212/Z1/	TRANSISTOR		C233	NDC31HJ-680X	C CAPACITOR	68pF 50V J
△Q511	2SD2645-YD	POW TRANSISTOR	H. OUT	C237	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
△Q531	2SC2785/JH/-T	TRANSISTOR		C241	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q532	2SA1530A/QR/-X	TRANSISTOR		C242	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
Q541	2SA1530A/QR/-X	TRANSISTOR		C243	QETN0JM-227Z	E CAPACITOR	220uF 6.3V M
Q542	2SA1530A/QR/-X	TRANSISTOR		C244	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q543	2SD1267A/QP/	POW TRANSISTOR		C281	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J
Q560	2SK3567	POWER MOS FET		C282	QETN1CM-107Z	E CAPACITOR	100uF 16V M
Q561	2SC3928A/QR/-X	TRANSISTOR		C283	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q621	2SD601A/QR/-X	TRANSISTOR		C284	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
Q622	2SD601A/QR/-X	TRANSISTOR		C285	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q623	2SA1530A/QR/-X	TRANSISTOR		C286	QETN1HM-474Z	E CAPACITOR	0.47uF 50V M
Q625	2SD601A/QR/-X	TRANSISTOR		C287	QETN1CM-107Z	E CAPACITOR	100uF 16V M
Q701	2SA1530A/QR/-X	TRANSISTOR		C288	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q861	2SC3928A/QR/-X	TRANSISTOR		C302	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
Q951	2SD1383K/AB/-X	SI TRANSISTOR		C352	QETN1EM-476Z	E CAPACITOR	47uF 25V M
Q971	2SA1208/ST/Z1-T	TRANSISTOR		C354	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D308	MTZJ4.3A-T2	Z DIODE		C360	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D309	MTZJ5.1B-T2	Z DIODE		C391	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D310	MTZJ4.3A-T2	Z DIODE		C392	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D352	MTZJ9.1C-T2	Z DIODE		C422	QFN32AK-102Z	M CAPACITOR	1000pF 100V K
D353	1SS133-T2	SI DIODE		C424	QETN1VM-107Z	E CAPACITOR	100uF 35V M
D354	MTZJ3.3A-T2	Z DIODE		C425	QETN1VM-477Z	E CAPACITOR	470uF 35V M
D421	1N4003-T2	SI DIODE		C427	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
D422	MTZJ75-T2	Z DIODE		C428	QETN1EM-228	E CAPACITOR	2200uF 25V M
D501	RH3G-F1	SI DIODE		C431	QFLC2AK-563Z	M CAPACITOR	0.056uF 100V K
D502	RU3AM-LFC4	SI DIODE		C433	QETN1EM-476Z	E CAPACITOR	47uF 25V M
D521	RH1S-T3	SI DIODE		C435	NCB31HK-183X	C CAPACITOR	0.018uF 50V K
D523	RGP10J-04TS-T3	SI DIODE		C440	QCS32HJ-100Z	C CAPACITOR	10pF 500V J
D525	1SS81-T5	SI DIODE		C501	QCB32HK-151Z	C CAPACITOR	150pF 500V K
D526	1SS81-T5	SI DIODE		C502	QCB32HK-331Z	C CAPACITOR	330pF 500V K
D527	1SR124-400A-T2	SI DIODE		C503	QEHR2CM-105Z	E CAPACITOR	1uF 160V M
D529	MTZJ9.1C-T2	Z DIODE		C504	QEZO203-107	E CAPACITOR	100uF 160V M
△D531	MA4068N/Z1/-T2	Z DIODE		C507	QEZ0195-475Z	BP E CAPACITOR	4.7uF 50V M
D535	1SS133-T2	SI DIODE		△C510	QFZ0200-382	MPP CAPACITOR	3800pF 1.5kV H
D601	MTZJ9.1C-T2	Z DIODE		△C513	QFZ0196-153	MPP CAPACITOR	0.015uF 1.5kV H
D602	MTZJ9.1C-T2	Z DIODE		C514	QFP32JJ-183	PP CAPACITOR	0.018uF 630V J
D603	MTZJ9.1C-T2	Z DIODE		C515	QFZ0197-514	MPP CAPACITOR	0.51uF 250V J
D621	1SS133-T2	SI DIODE		C516	QCB32HK-561Z	C CAPACITOR	560pF 500V K
D623	1SS133-T2	SI DIODE		C521	QETN2EM-106Z	E CAPACITOR	10uF 250V M
D626	1SS133-T2	SI DIODE		C523	QEHR1VM-108Z	E CAPACITOR	1000uF 35V M
D705	1SS133-T2	SI DIODE		C525	QETN1VM-107Z	E CAPACITOR	100uF 35V M
D706	MTZJ5.6B-T2	Z DIODE		C526	QFV21HJ-824Z	MF CAPACITOR	0.82uF 50V J
D707	MTZJ5.6B-T2	Z DIODE		C527	QFLC2AJ-103Z	M CAPACITOR	0.01uF 100V J
D708	MTZJ5.6B-T2	Z DIODE		C533	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D709	MTZJ5.6B-T2	Z DIODE		C560	QFZ0197-304	MPP CAPACITOR	0.3uF 250V J
D860	1SS133-T2	SI DIODE		C601	NCB31CK-224X	C CAPACITOR	0.22uF 16V K
△D901	GSIB460	BRIDGE DIODE		C602	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D910	MA700A-T2	SB DIODE		C603	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
D911	RGP10J-04TS-T3	SI DIODE		C604	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D912	RGP10J-04TS-T3	SI DIODE		C621	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D913	1SS133-T2	SI DIODE		C622	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D914	1SS133-T2	SI DIODE		C624	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
D915	SARS01-T2	SI DIODE		C626	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
D917	MTZJ30A-T2	Z DIODE		C627	NCF21CZ-105X	C CAPACITOR	1uF 16V Z
D918	MTZJ5.1C-T2	Z DIODE		C628	QETN1HM-226Z	E CAPACITOR	22uF 50V M
D920	1SS133-T2	SI DIODE		C629	NCF21CZ-105X	C CAPACITOR	1uF 16V Z
D931	RU4AM-LFT2	SI DIODE		C630	QETN1EM-227Z	E CAPACITOR	220uF 25V M
D933	RU3YX-LFC4	SI DIODE		C632	QETN1EM-477Z	E CAPACITOR	470uF 25V M
D935	RU3YX-LFC4	SI DIODE		C633	QETN1EM-227Z	E CAPACITOR	220uF 25V M
D937	RU3YX-LFC4	SI DIODE		C634	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D941	MTZJ33A-T2	Z DIODE		C635	QETN1HM-105Z	E CAPACITOR	1uF 50V M
D945	MTZJ9.1B-T2	Z DIODE		C637	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
				C638	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
				C651	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
				C652	NCF31AZ-105X	C CAPACITOR	1uF 10V Z

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C655	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	R293	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
C656	NCB31HK-153X	C CAPACITOR	0.015uF 50V K	R296	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C657	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	R297	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C658	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	R298	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C659	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R301	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C660	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R302	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C661	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R303	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C662	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R304	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C700	NCB31HK-102X	C CAPACITOR	1000pF 50V K	R305	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C701	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R306	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C702	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R318	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
C703	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R319	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C704	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R354	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C705	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R355	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C708	NDC31HJ-220X	C CAPACITOR	22pF 50V J	R356	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
C709	NDC31HJ-220X	C CAPACITOR	22pF 50V J	R359	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C711	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R421	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
C712	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R423	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
C728	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R424	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
C807	QETN1AM-477Z	E CAPACITOR	470uF 10V M	R426	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
C815	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R427	QRT029J-1R2	MF RESISTOR	1.2Ω 2W J
C853	QETN1EM-227Z	E CAPACITOR	220uF 25V M	R428	QRE121J-120Y	C RESISTOR	12Ω 1/2W J
C854	QETN1CM-227Z	E CAPACITOR	220uF 16V M	R429	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
C856	QETN1CM-227Z	E CAPACITOR	220uF 16V M	R431	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
C857	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	R432	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C861	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R433	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
C862	NDC31HJ-331X	C CAPACITOR	330pF 50V J	R434	QRL029J-221	OMF RESISTOR	220Ω 2W J
C863	NDC31HJ-331X	C CAPACITOR	330pF 50V J	R435	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J
C864	NCB31HK-221X	C CAPACITOR	220pF 50V K	R441	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
△C901	QFZ9072-104	MM CAPACITOR	0.1uF AC250V K	R501	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
△C902	QFZ9072-473	MM CAPACITOR	0.047uF AC250V K	R502	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
△C903	QFZ9072-104	MM CAPACITOR	0.1uF AC250V K	R503	QRE121J-103Y	C RESISTOR	10kΩ 1/2W J
△C905	QCZ9054-102	C CAPACITOR	1000pF AC250V Z	R504	QRL039J-152	OMF RESISTOR	1.5kΩ 3W J
C907	QEZ0644-567	E CAPACITOR	560uF 200V K	R505	QRL039J-152	OMF RESISTOR	1.5kΩ 3W J
△C908	QCZ9054-102	C CAPACITOR	1000pF AC250V Z	R511	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
C912	QCZ0340-222	C CAPACITOR	2200pF 2kV K	R512	QRE121J-681Y	C RESISTOR	680Ω 1/2W J
C913	QFLC1HJ-471Z	M CAPACITOR	470pF 50V J	R516	QRZ0221-2R0	OMF RESISTOR	2Ω 7W K
C914	QETN1HM-107Z	E CAPACITOR	100uF 50V M	R524	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
C916	NDC31HJ-331X	C CAPACITOR	330pF 50V J	R526	QRE121J-272Y	C RESISTOR	2.7kΩ 1/2W J
C917	NCB31HK-182X	C CAPACITOR	1800pF 50V K	R527	QRE121J-154Y	C RESISTOR	150kΩ 1/2W J
C918	NCB31HK-104X	C CAPACITOR	0.1uF 50V K	R528	QRE121J-154Y	C RESISTOR	150kΩ 1/2W J
C919	QFP32GJ-103	PP CAPACITOR	0.01uF 400V J	R529	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C931	QEZO203-227	E CAPACITOR	220uF 160V M	△R531	QRZ0230-391X	UNF C RESISTOR	390Ω 1/4W J
C932	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	△R532	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
C933	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	R533	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
C934	NDC31HJ-221X	C CAPACITOR	220pF 50V J	R534	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
C935	QETN1VM-108Z	E CAPACITOR	1000uF 35V M	△R535	NRVA02D-222X	CMF RESISTOR	2.2kΩ 1/10W D
C937	QCZ0340-102	C CAPACITOR	1000pF 2kV K	R536	QRE121J-470Y	C RESISTOR	47Ω 1/2W J
C938	QETN1EM-477Z	E CAPACITOR	470uF 25V M	△R537	NRVA02D-752X	CMF RESISTOR	7.5kΩ 1/10W D
C939	QCB32HK-152Z	C CAPACITOR	1500pF 500V K	R538	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C941	QCB32HK-102Z	C CAPACITOR	1000pF 500V K	R543	QRE121J-122Y	C RESISTOR	1.2kΩ 1/2W J
C942	QEHR1HM-105Z	E CAPACITOR	1uF 50V M	R544	QRE121J-472Y	C RESISTOR	4.7kΩ 1/2W J
C943	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	R545	QRE121J-123Y	C RESISTOR	12kΩ 1/2W J
C951	QETN1EM-477Z	E CAPACITOR	470uF 25V M	R546	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C952	QETN1CM-227Z	E CAPACITOR	220uF 16V M	R547	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C971	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R548	QRE121J-152Y	C RESISTOR	1.5kΩ 1/2W J
C972	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R553	QRL039J-100	OMF RESISTOR	10Ω 3W J
△C997	QCZ9079-102	C CAPACITOR	1000pF AC250V M	△R554	QRK129J-1R0	UNF C RESISTOR	1Ω 1/2W J
△C998	QCZ9074-103	C CAPACITOR	0.01uF AC250V M	R555	QRT029J-2R2	MF RESISTOR	2.2Ω 2W J
△C999	QCZ9074-103	C CAPACITOR	0.01uF AC250V M	R560	QRE121J-124Y	C RESISTOR	120kΩ 1/2W J
				R561	QRE121J-562Y	C RESISTOR	5.6kΩ 1/2W J
R001	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R562	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R002	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R563	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R003	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R601	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R004	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R602	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R008	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R603	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R010	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R621	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R201	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R623	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R212	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	R624	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R215	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R626	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R216	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R627	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R217	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R628	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R227	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R630	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R231	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R631	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R237	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	R649	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R238	NRSA63J-473X	MG RESISTOR	4.7kΩ 1/16W J	R651	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R241	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R652	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R243	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R653	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R281	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	R654	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R282	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	R656	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R283	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	R658	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R286	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R659	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R287	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R700	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R288	NRSA02J-471X	MG RESISTOR	470Ω 1/10W J	R701	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R289	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J	R702	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R290	NRSA02J-561X	MG RESISTOR	560Ω 1/10W J	R704	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R292	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	R705	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
R706	NRSA63J-472X	MG RESISTOR	4.7KΩ	1/16W J	CN0E3	CE41507-001P	LV CONNECTOR		
R707	NRSA63J-103X	MG RESISTOR	10KΩ	1/16W J	CN0HV	QGZ5004C1-06	CONNECTOR		(1-6)
R708	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	△CP936	ICP-N70-T	IC PROTECTOR		2.5A
R709	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	△F901	QMF51N1-5R0-J5	FUSE		5A AC125V
R718	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	△FR525	QRZ9017-4R7	FUSI RESISTOR		4.7Ω 1/4W J
R721	NRSA63J-102X	MG RESISTOR	1KΩ	1/16W J		QNN0349-002	PIN JACK		COMPONENT
R729	NRSA63J-223X	MG RESISTOR	22KΩ	1/16W J	K401	QQR0621-002Z	FERRITE BEADS		
R731	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	K912	QQR0582-001Z	FERRITE BEADS		
R732	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	K916	QQR0582-001Z	FERRITE BEADS		
R733	NRSA63J-472X	MG RESISTOR	4.7KΩ	1/16W J	K917	QQR0582-001Z	FERRITE BEADS		
R734	NRSA63J-472X	MG RESISTOR	4.7KΩ	1/16W J	K918	QQR0582-001Z	FERRITE BEADS		
R739	NRSA63J-272X	MG RESISTOR	2.7KΩ	1/16W J	K920	QQR1139-001	FERRITE BEADS		
R740	NRSA63J-103X	MG RESISTOR	10KΩ	1/16W J	K931	QQR0582-001Z	FERRITE BEADS		
R764	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	K932	QQR0582-001Z	FERRITE BEADS		
R765	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	K933	QQR0582-001Z	FERRITE BEADS		
R766	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	K935	QQR0582-001Z	FERRITE BEADS		
R767	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	K937	QQR0582-001Z	FERRITE BEADS		
R769	NRSA63J-682X	MG RESISTOR	6.8KΩ	1/16W J	LC601	QQR1199-001	EMI FILTER		
R772	NRSA63J-103X	MG RESISTOR	10KΩ	1/16W J	LC602	QQR1199-001	EMI FILTER		
R811	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	LC603	QQR1199-001	EMI FILTER		
R816	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	△LF901	QQR0527-003	LINE FILTER		
R827	NRSA63J-102X	MG RESISTOR	1KΩ	1/16W J	LF902	QQR0527-003	LINE FILTER		
R839	NRSA63J-225X	MG RESISTOR	2.2MΩ	1/16W J	△PC560	PC123Y22	PHOTO COUPLER		
R855	QRL029J-820	OMF RESISTOR	82Ω	2W J	△PC921	PC123Y22	PHOTO COUPLER		
R857	QRL029J-820	OMF RESISTOR	82Ω	2W J	△RY951	QSK0085-001	RELAY		
R860	NRSA63J-223X	MG RESISTOR	22KΩ	1/16W J	S421	QSL4A13-C02	LEVER SWITCH		V.CENTER
R861	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	△TH901	QAD0132-3R0	P THERMISTOR		3Ω
R862	NRSA63J-223X	MG RESISTOR	22KΩ	1/16W J	△TU001	QAU0352-002	TUNER		
R864	NRSA63J-224X	MG RESISTOR	220KΩ	1/16W J	△VA901	ERZV10V621CS	ZNR		
R865	NRSA63J-683X	MG RESISTOR	68KΩ	1/16W J	X701	QAX0767-001Z	CRYSTAL		8MHz
R866	NRSA63J-472X	MG RESISTOR	4.7KΩ	1/16W J					
R867	NRSA63J-223X	MG RESISTOR	22KΩ	1/16W J					
R869	NRSA63J-472X	MG RESISTOR	4.7KΩ	1/16W J					
R870	NRSA63J-222X	MG RESISTOR	2.2KΩ	1/16W J					
R871	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J					
R872	QVP0087-203Z	TRIM RESISTOR	20KΩ	0.3W N					
R873	NRSA63J-154X	MG RESISTOR	150KΩ	1/16W J					
R901	QRF074K-1R2	UNF WW RESISTOR	1.2Ω	7W K					
R909	QRG01GJ-470	OMF RESISTOR	47Ω	1W J					
R911	QRE121J-223Y	C RESISTOR	22KΩ	1/2W J	Q3103	2SC3928A/QR/-X	TRANSISTOR		
R912	QRT029J-R18	MF RESISTOR	0.18Ω	2W J	Q3107	2SA2005/DE/-	POW TRANSISTOR		
R913	QRT029J-R15	MF RESISTOR	0.15Ω	2W J	Q3108	2SC5511/DE/-	POW TRANSISTOR		
△R914	QRK126J-681X	UNF C RESISTOR	680Ω	1/2W J	Q3109	2SC3928A/QR/-X	TRANSISTOR		
R915	QRK129J-6R8	UNF C RESISTOR	6.8Ω	1/2W J	Q3304	2SC4544-LB	POW TRANSISTOR		
△R917	QRK126J-332X	UNF C RESISTOR	3.3KΩ	1/2W J	Q3305	2SC4544-LB	POW TRANSISTOR		
R918	QRE121J-222Y	C RESISTOR	2.2KΩ	1/2W J	Q3306	2SC4544-LB	POW TRANSISTOR		
R919	QRE121J-684Y	C RESISTOR	680KΩ	1/2W J	D3105	RH1S-T3	SI DIODE		
R924	QRE121J-222Y	C RESISTOR	2.2KΩ	1/2W J	D3106	RH1S-T3	SI DIODE		
R930	QRE121J-223Y	C RESISTOR	22KΩ	1/2W J	D3331	1SS133-T2	SI DIODE		
R933	QRX01GJ-1R0	MF RESISTOR	1Ω	1W J					
R940	QRE121J-181Y	C RESISTOR	180Ω	1/2W J	C3101	QETN1HM-106Z	E CAPACITOR		10uF 50V M
R941	QRL029J-183	OMF RESISTOR	18KΩ	2W J	C3113	QETN2CM-106Z	E CAPACITOR		10uF 160V M
R950	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	C3114	QCB32HK-472Z	C CAPACITOR		4700pF 500V K
R951	NRSA63J-473X	MG RESISTOR	47KΩ	1/16W J	C3115	QCB32HK-472Z	C CAPACITOR		4700pF 500V K
R952	NRSA63J-102X	MG RESISTOR	1KΩ	1/16W J	C3117	QETN2CM-106Z	E CAPACITOR		10uF 160V M
R953	QRE121J-820Y	C RESISTOR	82Ω	1/2W J	C3118	QETN0JM-107Z	E CAPACITOR		100uF 6.3V M
R972	NRVA02D-102X	CMF RESISTOR	1KΩ	1/10W D	C3119	QETN1AM-107Z	E CAPACITOR		100uF 10V M
R973	NRVA02D-332X	CMF RESISTOR	3.3KΩ	1/10W D	C3120	QETN1AM-337Z	E CAPACITOR		330uF 10V M
R975	QRE121J-223Y	C RESISTOR	2.2KΩ	1/2W J	C3121	QCS32HJ-151Z	C CAPACITOR		150pF 50V J
R977	QRE121J-473Y	C RESISTOR	47KΩ	1/2W J	C3127	NDC31HJ-471X	C CAPACITOR		470pF 50V J
R978	NRSA63J-333X	MG RESISTOR	33KΩ	1/16W J	C3301	NDC31HJ-561X	C CAPACITOR		560pF 50V J
△R998	QRZ9041-275	C RESISTOR	2.7MΩ	1/2W K	C3302	NDC31HJ-391X	C CAPACITOR		390pF 50V J
R999	QRE121J-121Y	C RESISTOR	120Ω	1/2W J	C3303	NDC31HJ-561X	C CAPACITOR		560pF 50V J
					C3323	QETN1CM-107Z	E CAPACITOR		100uF 16V M
					C3331	NDC31HJ-181X	C CAPACITOR		180pF 50V J
					C3332	NDC31HJ-181X	C CAPACITOR		180pF 50V J
					C3333	NDC31HJ-181X	C CAPACITOR		180pF 50V J
					C3363	QCZ0121-102	C CAPACITOR		1000pF 3KV Z
L001	QQL244K-220Z	PEAKING COIL		22uH K	R3115	NRSA63J-470X	MG RESISTOR		47Ω 1/16W J
L232	QQL244K-560Z	PEAKING COIL		56uH K	R3116	NRSA63J-470X	MG RESISTOR		47Ω 1/16W J
L241	QQL244K-220Z	PEAKING COIL		22uH K	R3122	QRT029J-R15	MF RESISTOR		0.15Ω 2W J
L391	QQL244K-220Z	PEAKING COIL		22uH K	R3123	NRSA63J-122X	MG RESISTOR		1.2KΩ 1/16W J
L511	QQR1027-005	LINEARITY COIL			R3124	NRSA63J-820X	MG RESISTOR		82Ω 1/16W J
L512	QQLZ036-222	COIL		2.2mH J	R3125	NRSA63J-100X	MG RESISTOR		10Ω 1/16W J
L513	QQLZ036-222	COIL		2.2mH J	R3126	NRSA63J-563X	MG RESISTOR		56KΩ 1/16W J
L521	QQLZ026-540	COIL		54uH A)7%	R3127	NRSA63J-563X	MG RESISTOR		56KΩ 1/16W J
L701	QQL244K-220Z	PEAKING COIL		22uH K	R3128	NRSA63J-122X	MG RESISTOR		1.2KΩ 1/16W J
L702	QQL244K-220Z	PEAKING COIL		22uH K	R3129	NRSA63J-100X	MG RESISTOR		10Ω 1/16W J
L703	QQL244K-220Z	PEAKING COIL		22uH K	R3130	NRSA63J-820X	MG RESISTOR		82Ω 1/16W J
L704	QQL244K-220Z	PEAKING COIL		22uH K	R3131	NRSA63J-331X	MG RESISTOR		330Ω 1/16W J
L705	QQL244K-220Z	PEAKING COIL		22uH K	R3132	QRL029J-391	OMF RESISTOR		390Ω 2W J
L931	QQL26AK-470Z	CHOKE COIL		47uH K	R3134	NRSA63J-101X	MG RESISTOR		100Ω 1/16W J
L933	QQL26AK-470Z	CHOKE COIL		47uH K	R3136	NRSA63J-392X	MG RESISTOR		3.9KΩ 1/16W J
L937	QQL26AK-470Z	CHOKE COIL		47uH K	R3139	NRSA63J-331X	MG RESISTOR		330Ω 1/16W J
L940	QQR0582-001Z	FERRITE BEADS			R3142	NRSA63J-123X	MG RESISTOR		12KΩ 1/16W J
T501	QQR1414-001	DRIVE TRANSF			R3143	NRSA63J-122X	MG RESISTOR		1.2KΩ 1/16W J
△T921	QQS0152-001	SW TRANSF							
△T951	QQT0355-001	POWER TRANSF							
CN001	QGB1505J1-35	CONNECTOR		B-B (1-35)					
CN0E1	CE41507-001P	LV CONNECTOR							

CRT SOCKET P.W. BOARD ASS'Y (SGW-3011A-M2)

△Ref No.	Part No.	Part Name	Description	Local
Q3103	2SC3928A/QR/-X	TRANSISTOR		
Q3107	2SA2005/DE/-	POW TRANSISTOR		
Q3108	2SC5511/DE/-	POW TRANSISTOR		
Q3109	2SC3928A/QR/-X	TRANSISTOR		
Q3304	2SC4544-LB	POW TRANSISTOR		
Q3305	2SC4544-LB	POW TRANSISTOR		
Q3306	2SC4544-LB	POW TRANSISTOR		
D3105	RH1S-T3	SI DIODE		
D3106	RH1S-T3	SI DIODE		
D3331	1SS133-T2	SI DIODE		
C3101	QETN1HM-106Z	E CAPACITOR		10uF 50V M
C3113	QETN2CM-106Z	E CAPACITOR		10uF 160V M
C3114	QCB32HK-472Z	C CAPACITOR		4700pF 500V K
C3115	QCB32HK-472Z	C CAPACITOR		4700pF 500V K
C3117	QETN2CM-106Z	E CAPACITOR		10uF 160V M
C3118	QETN0JM-107Z	E CAPACITOR		100uF 6.3V M
C3119	QETN1AM-107Z	E CAPACITOR		100uF 10V M
C3120	QETN1AM-337Z	E CAPACITOR		330uF 10V M
C3121	QCS32HJ-151Z	C CAPACITOR		150pF 50V J
C3127	NDC31HJ-471X	C CAPACITOR		470pF 50V J
C3301	NDC31HJ-561X	C CAPACITOR		560pF 50V J
C3302	NDC31HJ-391X	C CAPACITOR		390pF 50V J
C3303	NDC31HJ-561X	C CAPACITOR		560pF 50V J
C3323	QETN1CM-107Z	E CAPACITOR		100uF 16V M
C3331	NDC31HJ-181X	C CAPACITOR		180pF 50V J
C3332	NDC31HJ-181X	C CAPACITOR		180pF 50V J
C3333	NDC31HJ-181X	C CAPACITOR		180pF 50V J
C3363	QCZ0121-102	C CAPACITOR		1000pF 3KV Z
R3115	NRSA63J-470X	MG RESISTOR		47Ω 1/16W J
R3116	NRSA63J-470X	MG RESISTOR		47Ω 1/16W J
R3122	QRT029J-R15	MF RESISTOR		0.15Ω 2W J
R3123	NRSA63J-122X	MG RESISTOR		1.2KΩ 1/16W J
R3124	NRSA63J-820X	MG RESISTOR		82Ω 1/16W J
R3125	NRSA63J-100X	MG RESISTOR		10Ω 1/16W J
R3126	NRSA63J-563X	MG RESISTOR		56KΩ 1/16W J
R3127	NRSA63J-563X	MG RESISTOR		56KΩ 1/16W J
R3128	NRSA63J-122X	MG RESISTOR		1.2KΩ 1/16W J
R3129	NRSA63J-100X	MG RESISTOR		10Ω 1/16W J
R3130	NRSA63J-820X	MG RESISTOR		82Ω 1/16W J
R3131	NRSA63J-331X	MG RESISTOR		330Ω 1/16W J
R3132	QRL029J-391	OMF RESISTOR		390Ω 2W J
R3134	NRSA63J-101X	MG RESISTOR		100Ω 1/16W J
R3136	NRSA63J-392X	MG RESISTOR		3.9KΩ 1/16W J
R3139	NRSA63J-331X	MG RESISTOR		330Ω 1/16W J
R3142	NRSA63J-123X	MG RESISTOR		12KΩ 1/16W J
R3143	NRSA63J-122X	MG RESISTOR		1.2KΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R3144	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	D5512	MTZJ9.1C-T2	Z DIODE	
R3145	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	D5513	MTZJ9.1C-T2	Z DIODE	
R3146	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J				
R3148	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	C5001	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
R3301	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	C5002	NCB31HK-562X	C CAPACITOR	5600pF 50V K
R3302	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	C5003	NCB31HK-123X	C CAPACITOR	0.012uF 50V K
R3303	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	C5004	QETN1HM-105Z	E CAPACITOR	1uF 50V M
R3304	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	C5005	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
R3305	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	C5006	QETN1HM-106Z	E CAPACITOR	10uF 50V M
R3306	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	C5007	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
R3307	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	C5008	QETN1CM-107Z	E CAPACITOR	100uF 16V M
R3308	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	C5009	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
R3309	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	C5010	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
R3310	QRL029J-183	OMF RESISTOR	18kΩ 2W J	C5011	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
R3311	QRL029J-183	OMF RESISTOR	18kΩ 2W J	C5012	NCB31HK-272X	C CAPACITOR	2700pF 50V K
R3312	QRL029J-183	OMF RESISTOR	18kΩ 2W J	C5013	NCB31HK-473X	C CAPACITOR	0.047uF 50V K
R3313	QRL029J-223	OMF RESISTOR	22kΩ 2W J	C5014	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
R3314	QRL029J-223	OMF RESISTOR	22kΩ 2W J	C5015	QETN1HM-106Z	E CAPACITOR	10uF 50V M
R3315	QRL029J-223	OMF RESISTOR	22kΩ 2W J	C5016	QETN1HM-105Z	E CAPACITOR	1uF 50V M
R3325	QRZ0107-102Z	C RESISTOR	1kΩ 1/2W K	C5017	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
R3326	QRZ0107-102Z	C RESISTOR	1kΩ 1/2W K	C5018	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
R3327	QRZ0107-102Z	C RESISTOR	1kΩ 1/2W K	C5019	NCB31HK-223X	C CAPACITOR	0.022uF 50V K
R3331	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	C5020	NCB31HK-472X	C CAPACITOR	4700pF 50V K
R3332	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	C5021	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
R3333	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	C5022	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
R3334	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	C5023	NCB31HK-472X	C CAPACITOR	4700pF 50V K
R3335	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	C5024	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
				C5025	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
L3304	QQL244K-470Z	PEAKING COIL	47uH K	C5026	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M
L3521	QQLZ026-540	COIL	54uH A±7%	C5027	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
				C5028	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
CN3004	QJB003-074022	SIN ID C-B WIRE		C5029	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
CN3005	WJA0029-002A	E-SI ID WIRE		C5030	QETN1CM-227Z	E CAPACITOR	220uF 16V M
CN30E2	QUB130-46A6AS	SIN TWIST WIRE		C5031	QETN1HM-106Z	E CAPACITOR	10uF 50V M
CN30E4	QUB130-46A6AS	SIN TWIST WIRE		C5203	QETN1EM-476Z	E CAPACITOR	47uF 25V M
K3104	QQR1114-001Z	FERRITE BEADS		C5204	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
K3105	QQR1114-001Z	FERRITE BEADS		C5205	QETN1EM-476Z	E CAPACITOR	47uF 25V M
△SK3001	QNZ0536-001	CRT SOCKET		C5206	NCB31HK-103X	C CAPACITOR	0.01uF 50V K

AV SELECTOR P.W. BOARD ASS'Y (SGW-5011A-M2)

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
IC5001	CXA2205Q-X	IC		C5232	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
IC5201	TC90A49AP	IC		C5233	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
IC5501	TA1218AN	IC		C5234	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
IC5701	CXA1875AM-X	IC		C5235	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q5001	2SA1530A/QR/-X	TRANSISTOR		C5236	QETN1CM-107Z	E CAPACITOR	100uF 16V M
Q5002	2SA1530A/QR/-X	TRANSISTOR		C5237	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q5211	2SC3928A/QR/-X	TRANSISTOR		C5238	QETN1CM-107Z	E CAPACITOR	100uF 16V M
Q5212	2SC3928A/QR/-X	TRANSISTOR		C5239	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q5251	2SC3928A/QR/-X	TRANSISTOR		C5240	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q5252	2SA1530A/QR/-X	TRANSISTOR		C5241	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q5253	2SA1530A/QR/-X	TRANSISTOR		C5242	QETN1CM-107Z	E CAPACITOR	100uF 16V M
Q5261	2SA1530A/QR/-X	TRANSISTOR		C5243	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q5262	2SC3928A/QR/-X	TRANSISTOR		C5246	NDC31HJ-181X	C CAPACITOR	180pF 50V J
Q5263	2SA1530A/QR/-X	TRANSISTOR		C5247	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q5384	DTC323TK-X	DIGI TRANSISTOR		C5251	QETN1EM-476Z	E CAPACITOR	47uF 25V M
Q5385	DTC323TK-X	DIGI TRANSISTOR		C5252	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q5386	DTC323TK-X	DIGI TRANSISTOR		C5253	NDC31HJ-820X	C CAPACITOR	82pF 50V J
Q5387	DTC323TK-X	DIGI TRANSISTOR		C5255	NDC31HJ-470X	C CAPACITOR	47pF 50V J
Q5501	2SA1530A/QR/-X	TRANSISTOR		C5263	NDC31HJ-470X	C CAPACITOR	47pF 50V J
Q5901	2SA1530A/QR/-X	TRANSISTOR		C5380	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q5902	2SC3928A/QR/-X	TRANSISTOR		C5391	QETN1HM-474Z	E CAPACITOR	0.47uF 50V M
Q5903	2SA1530A/QR/-X	TRANSISTOR		C5392	QETN1HM-474Z	E CAPACITOR	0.47uF 50V M
Q5904	2SC3928A/QR/-X	TRANSISTOR		C5501	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
Q5905	2SC3928A/QR/-X	TRANSISTOR		C5502	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
Q5906	2SC3928A/QR/-X	TRANSISTOR		C5503	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q5907	2SC3928A/QR/-X	TRANSISTOR		C5504	QETN1HM-106Z	E CAPACITOR	10uF 50V M
Q5908	2SC3928A/QR/-X	TRANSISTOR		C5508	QETN1HM-106Z	E CAPACITOR	10uF 50V M
				C5509	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D5391	MTZJ9.1C-T2	Z DIODE		C5520	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
D5392	MTZJ9.1C-T2	Z DIODE		C5521	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
D5501	MTZJ9.1C-T2	Z DIODE		C5531	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D5502	MTZJ9.1C-T2	Z DIODE		C5532	QETN1EM-476Z	E CAPACITOR	47uF 25V M
D5503	MTZJ9.1C-T2	Z DIODE		C5533	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D5504	MTZJ9.1C-T2	Z DIODE		C5534	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M
D5505	MTZJ9.1C-T2	Z DIODE		C5546	NCB31HK-222X	C CAPACITOR	2200pF 50V K
D5507	MTZJ9.1C-T2	Z DIODE		C5547	NCB31HK-222X	C CAPACITOR	2200pF 50V K
D5508	MTZJ9.1C-T2	Z DIODE		C5703	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D5509	MTZJ9.1C-T2	Z DIODE		C5704	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
D5510	MTZJ9.1C-T2	Z DIODE		C5901	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
D5511	MTZJ9.1C-T2	Z DIODE		C5902	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
				C5903	QETN1CM-107Z	E CAPACITOR	100uF 16V M
				C5904	QETN1CM-107Z	E CAPACITOR	100uF 16V M

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R5001	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	R5559	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R5002	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R5560	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R5003	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R5561	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R5004	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R5701	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R5005	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	R5702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R5007	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R5901	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R5008	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R5902	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R5009	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R5903	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R5010	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	R5904	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R5011	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R5906	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R5012	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R5907	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R5013	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R5908	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R5014	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R5909	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R5015	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R5910	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R5016	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R5911	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R5017	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	R5913	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
R5031	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R5914	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
R5032	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L5202	QQL244K-150Z	PEAKING COIL	15uH K
R5033	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	L5211	QQL244K-4R7Z	PEAKING COIL	4.7uH K
R5034	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	L5241	QQL244K-4R7Z	PEAKING COIL	4.7uH K
R5210	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	L5243	QQL244K-4R7Z	PEAKING COIL	4.7uH K
R5211	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	L5244	QQL244K-4R7Z	PEAKING COIL	4.7uH K
R5212	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	L5261	QQL244K-150Z	PEAKING COIL	15uH K
R5213	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	CN5001	QGB1505K1-35	CONNECTOR	B-B (1-35)
R5214	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J	J5501	QNZ0454-001	AV JACK	S/V/L/R IN
R5215	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	J5502	QNN0348-001	PIN JACK	V/L/R IN
R5216	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	J5503	QNN0348-001	PIN JACK	L/R OUT
R5217	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J				
R5240	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J				
R5241	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J				
R5242	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R5243	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R5251	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J				
R5253	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J				
R5254	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J				
R5255	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J				
R5258	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R5259	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J				
R5261	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R5262	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J				
R5263	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J				
R5265	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J				
R5269	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J				
R5270	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J				
R5384	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J				
R5385	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J				
R5386	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J				
R5387	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J				
R5391	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J				
R5392	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J				
R5393	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J				
R5394	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J				
R5395	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J				
R5396	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J				
R5501	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R5502	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R5503	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R5504	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R5505	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R5507	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R5508	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J				
R5509	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R5510	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R5511	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R5512	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R5513	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J				
R5514	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R5515	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R5516	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R5517	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R5519	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J				
R5520	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J				
R5521	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J				
R5522	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J				
R5523	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J				
R5524	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R5526	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R5532	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J				
R5533	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J				
R5541	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R5542	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R5543	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R5544	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R5545	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J				
R5546	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J				
R5558	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J				

SIDE CONTROL P.W. BOARD ASS'Y (SGW-6011A-M2)

△Ref No.	Part No.	Part Name	Description Local
C6401	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C6402	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
C6403	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
R6401	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R6402	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R6403	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R6702	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6703	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R6704	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R6705	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R6706	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
CN6006	QJB003-056430	SIN ID C-B WIRE	
CN600B	QJB003-034633	SIN ID C-B WIRE	
J6401	PIN JACK	PIN JACK	V/L/R IN
LC6401	QQR1459-001	EMI F. COIL	
LC6402	QQR1459-001	EMI F. COIL	
LC6403	QQR1459-001	EMI F. COIL	
S6702	QSW0619-003Z	TACT SWITCH	MENU
S6703	QSW0619-003Z	TACT SWITCH	CH-
S6704	QSW0619-003Z	TACT SWITCH	CH+
S6705	QSW0619-003Z	TACT SWITCH	VOL-
S6706	QSW0619-003Z	TACT SWITCH	VOL+

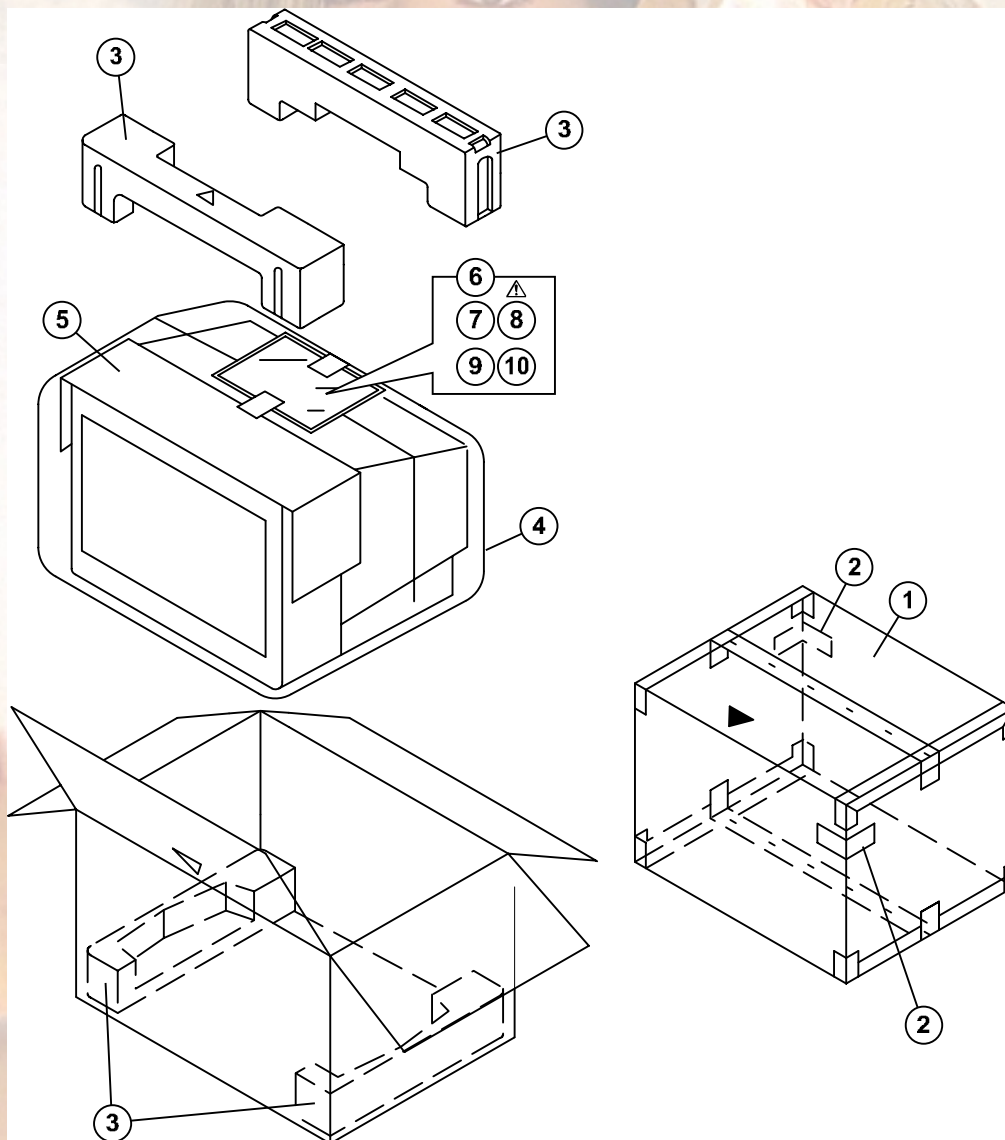
FRONT CONTROL P.W. BOARD ASS'Y (SGW-7011A-M2)

△Ref No.	Part No.	Part Name	Description Local
IC7701	GP1UM281QK	IR DETECT UNIT	38kHz
Q7702	UN2112-X	DIGI TRANSISTOR	
D7701	LG22440	LED	POWER
C7701	QETN1EM-476Z	E CAPACITOR	47uF 25V M
R7708	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R7709	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
R7710	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R7711	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
CN7007	QJB003-064426	SIN ID C-B WIRE	
S7701	QSW0847-001	TACT SWITCH	POWER

REMOTE CONTROL UNIT PARTS LIST (RM-C1258G-1H)

△ Ref.No.	Part No.	Part Name	Description	Local
	UR77EC0603B	BATTERY COVER		

PACKING



PACKING PARTS LIST

△ Ref.No.	Part No.	Part Name	Description	Local
1	GQ10009-032A-A	PACKING CASE		
2	CM36616-001-A	CORNER LABEL	2pcs in 1set	
3	GQ10076-001B-A	CUSHION ASSY	4pcs in 1set	
4	CP30056-A04-A	POLY BAG		
5	CP30055-A02-A	TOP COVER		
6	QPA02503505	POLY BAG	25cm x 35cm	
7	RM-C1258G-1H	REMOCON		
8	LCT1784-001A-A	INST BOOK		
9	-----	BATTERY	R6P/AA(x2)	
10	BT-51034-2Q	REGIST. CARD		