

Service Manual

PA

No. 0212

55HDX62/DW1-U 55HDT52/DW1-U 55HDS52/DW1-U

Revision History

Change Number	Date of Change	Page numbers changed	Description of change
1	2006.01.13	138	Corrected part number for power supply
2	2006.04.05	88	Added part number for speaker grill assembly
3	2006.04.14	137	Added part numbers for panel boards
4	2006.04.20	78, 97	Replaced connection diagram, replaced voltage table
5	2006.10.20	39	Removed text regarding Magic Focus

HITACHI Inspire the Next

SERVICE MANUAL

PA

No. 0212

55HDX62/DW1-U 55HDT52/DW1-U 55HDS52/DW1-U

NTSC

DW1-U Chassis

R/C: CLU-3851WL

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CAUTION:

These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Before servicing this chassis, it is important that the service technician read the "IMPORTANT SAFETY INSTRUCTIONS" in this service manual.

SAFETY NOTICE

USE ISOLATION TRANSFORMER WHEN SERVICING

Components having special safety characteristics are identified by a \triangle on the schematics and on the parts list in this Service Data and its supplements and bulletins. Before servicing the chassis, it is important that the service technician read and follow the "Important Safety Instructions" in this Service Manual.

SPECIFICATIONS AND PARTS ARE SUBJECT TO CHANGE FOR IMPROVEMENT

PLASMA DISPLAY PANEL

SEPTEMBER 2005
Version 0212.05

HHEA-MANUFACTURING DIVISION

SAFETY PRECAUTIONS

NOTICE: Comply with all cautions and safety-related notes located on or inside the cover case and on the chassis or plasma module

WARNING: Since the chassis of this receiver is connected to one side of the AC power supply during operation, whenever the receiver is plugged in service should not be attempted by anyone unfamiliar with the precautions necessary when working on this type of receiver.

- When service is required, an isolation transformer should be inserted between power line and the receiver before any service is performed on a "HOT" chassis receiver.
- When replacing a chassis in the receiver, all the protective devices must be put back in place, such as barriers, nonmetallic knobs, insulating cover-shields, and isolation resistors, capacitors, etc.
- 3. When service is required, observe the original lead dress.
- 4. Always use manufacturer's replacement components. Critical components as indicated on the circuit diagram should not be replaced by another manufacturer's. Furthermore, where a short circuit has occurred, replace those components that indicate evidence of over heating.
- 5. Before returning a serviced receiver to the customer, the service technician must thoroughly test the unit to be certain that it is completely safe to operate without danger of electrical shock, and be sure that no protective device built into the receiver by the manufacturer has become defective, or inadvertently defeated during servicing.

Therefore, the following checks should be performed for the continued protection of the customer and service technician.

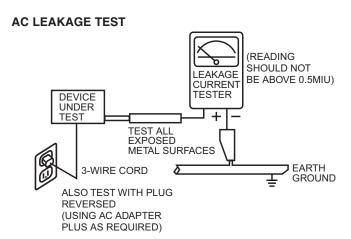
Leakage Current Cold Check

With the AC plug removed from the 120V AC 60Hz source, place a jumper across Line 1 and Line 2 of the three plug prongs, do not connect with the third prong, which is physical ground.

Using an insulation tester (DC500V), connect one of its leads to the AC plug jumper and touch with the other lead each exposed metal part (antennas, screwheads, metal overlays, control shafts, etc.), particularly any exposed metal part having a return path to the chassis should have a resistor reading over $4 \text{M}\Omega$. Any resistance value below this range indicates an abnormality which requires corrective action. An exposed metal part not having a return path to the chassis will indicate an open circuit.

Leakage Current Hot Check

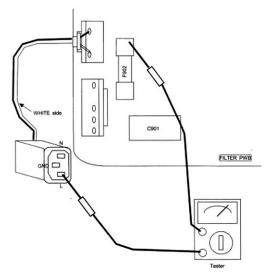
Plug the AC line cord directly into a 120V AC outlet. (Do not use an isolation transformer during this test.) Use a leakage current tester or a metering system that complies with the American National Standards Institute (ANSI) C101.0 Leakage Current for Appliances. In the case of the PDP monitor set the AC switch first in the ON position and then in the OFF position, measure from across Line 1 and Line 2 of the three plug prongs, do not connect with the third prong, which is physical ground, to all exposed metal parts of the instrument (antennas, handle bracket, metal cabinet, screw heads, metallic overlays, control shafts, etc.), especially any exposed metal parts that offer an electrical return path to the chassis. Any current measured must not exceed 0.5 MIU. Reverse the instrument power cord plug in the outlet and repeat test.



ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE RECEIVER TO THE CUSTOMER.

AC Inlet Polarity

This check is based on the UL Standard Use the jigs specified by the production technology section. The GND side (Wider blade) of the AC power cord should be connected to F902.



PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in HITACHI television receivers have special safety-related characteristics. These 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 this Service Manual.

Electrical components having such features are identified with a Mark in the schematics and parts list in this Service Manual.

The use of a substitute replacement component which does not have the same safety characteristics as the HITACHIrecommended replacement component, shown in the parts list in this Service Manual, may create shock, fire, X-radiation, or other hazards.

Product safety is continuously under review and new instructions are issued from time to time. For the latest information, always consult the current HITACHI Service Manual. A subscription to, or additional copies of HITACHI Service Manuals may be obtained at a nominal charge from HITACHI Sales Corporation.

 Follow the general caution recommendations from "Safety precautions" section.

42HDS52/HDT52/HDX62 - Plasma Monitor Unit 55HDS52/HDT52/HDX62 - Plasma Monitor Unit

- Follow the general caution recommendations from "Safety precautions" section.
- Since the Panel module and front filter are made of glass, sufficient care shall be taken when handling the broken module and filter in order to avoid injury.
- If necessary to replace Panel module, this work must be started after the panel module and the AC/DC Power supply becomes sufficiently cool.
- Special care must be taken with the display area to avoid damaging its surface.
- 5. The Panel Module shall not be touched with bare hands to protect its surface from stains.
- It is recommended to use clean soft gloves during the replacing work of the Panel module in order to protect, not only the display area of the panel module but also the serviceman.
- 7. The Chip Tube of the panel module (located upper left of the back of the panel module) and flexible cables connecting Panel glasses to the drive circuitry Printed Wiring Boards (P.W.B.) are very weak, so sufficient care must be taken to prevent breaking or cutting any of these. If the Chip Tube breaks the panel module will never work, replacement for a new plasma panel module will be needed.
- 8. AV Digital Block, power supply and PDP driving circuit P.W.B.'s are assembled on the rear side of the PDP module, take special care with this fragile circuitry; particularly, Flexible Printed Circuits bonded to surrounding edges of the glass panel. They are not strong enough to withstand harsh outer mechanical forces. Avoid touching the flexible printed circuits by not only your hands, but also tools, chassis, or any other object. Extreme bending of the connectors must be avoided too. In case the flexible printed circuits are damaged, the corresponding addressed portions of the screen will not be lit and exchange of a glass panel will be required.

PDP Module Handling

When there is need to replace a broken PDP module which is the displaying device from the Plasma monitor unit, consider the following:

- 1. When carrying the PDP module, two persons should stand at both shorter-edge sides of the glass-panel and transport it with their palms. Avoid touching the Flexible Printed Circuits or the chip tube on the corner of the glass-panel. Handle only by the surface of the glass panel. In case of some PDP modules, electrode repair is done by connecting between regular terminal with Cu tape and Cu wire. Please do not hook and/or damage this repair line. If it is damaged, the module will not function unless the glass-panel is exchanged with a new glass-panel.
- When carrying PDP module, watch surrounding objects, such as tables, and also do not carry it alone since it may be dangerous and it will be damaged due to excessive stress to the module (glass-panel).
- Please do not stand the module with the edge of the glasspanel on the table since this might result in damage to the glass-panel and/or flexible printed circuits due to excessive stress to the module (glass-panel).

WARNING

Lead in solder used in this product is listed by the California Health and Welfare agency as a known reproductive toxicant which may cause birth defects or other reproductive harm (California Health and Safety Code, Section 25249.5).

When servicing or handling circuit boards and other components which contain lead in solder, avoid unprotected skin contact with solder. Also, when soldering make sure you are in a well ventilated area in order to avoid inhalation of any smoke or fumes released.

SAFETY NOTICE USE ISOLATION TRANSFORMER WHEN SERVICING

POWER SOURCE

This plasma television is designed to operate on 120 Volts 60Hz, AC house current. Insert the power cord into a 120 Volts 60Hz outlet.

NEVER CONNECT THE PLASMA TELEVISION TO OTHER THAN THE SPECIFIED VOLTAGE OR TO DIRECT CURRENT AND TO 50HZ. TO PREVENT ELECTRIC SHOCK, DO NOT USE THE PLASMA TELEVISION'S (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE, OR THE OUTLETS UNLESS THE BLADES AND GROUND TERMINAL CAN BE FULLY UNSERTED TO PREVENT BLADE EXPOSURE.

SERVICING PRECAUTIONS

CAUTION: Before servicing instruments covered by this service data and its supplements and addenda, read and follow the "Important Safety Instructions" on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Guidelines

- Always unplug the instrument AC power cord from the AC power source before:
 - a. Removing or reinstalling any component, circuit board, module, or any other instrument assembly.
 - b. Disconnecting or reconnecting any instrument electrical plug or other electrical connection.
 - c. Connecting a test substitute in parallel with an electrolytic capacitor in the instrument.

CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

- Do not spray chemicals on or near this instrument or any of its assemblies.
- Unless specified otherwise in these service data, clean electrical contacts by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable nonabrasive applicator: 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength).

CAUTION: This is a flammable mixture. Unless specified otherwise in these service data, lubrication of contacts is not required.

- Do not defeat any plug/socket of voltage interlocks with which instruments covered by this service data might be equipped.
- Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heatsinks are correctly installed.
- Always connect the test instrument ground lead to the appropriate instrument chassis ground before connecting the test instrument positive lead. Always remove the test instrument ground lead last.
- 7. Use with this instrument only the test fixtures specified in this service data.

CAUTION: Do not connect the test fixture ground strap to any heatsink in this instrument.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

- Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed for potential shock reasons prior to applying power to the unit under test.
- After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- Use only a grounded-tip soldering iron to solder or desolder ES devices.
- Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES device.
- Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
- Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material.)
- 7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

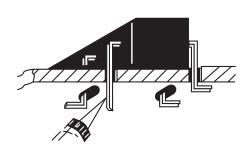
- Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range 500°F to 600°F.
- Use an appropriate lead free solder (see page 8). Lead solder can be used, but there is a possibility of failure due to insufficient strength of the solder.
- 3. Keep the soldering iron tip clean and well-tinned.
- 4. Thoroughly clean the surfaces to be soldered. Use a small wire-bristle (0.5 inch or 1.25 cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.
- 5. Use the following desoldering technique.
 - a. Allow the soldering iron tip to reach normal temperature (500°F to 600°F).
 - b. Heat the component lead until the solder melts. Quickly draw away the melted solder with an antistatic, suction-type solder removal device or with solder braid.

CAUTION: Work quickly to avoid overheating the circuit board printed foil.

- 6. Use the following soldering technique.
 - a. Allow the soldering iron tip to reach normal temperature (500°F to 600°F).
 - First, hold the soldering iron tip and solder strand against the component lead until the solder melts.
 - c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.

CAUTION: Work quickly to avoid overheating the circuit board printed foil or components.

 d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.



Use Soldering Iron to Pry Leads

IC Removal/Replacement

Some Hitachi unitized chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

- Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
- Draw away the melted solder with an anti-static suctiontype solder removal device (or with solder braid) before removing the IC.

Replacement

- 1. Carefully insert the replacement IC in the circuit board.
- Carefully bend each IC lead against the circuit foil pad and solder it.
- 3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to areas.)

"Small-signal" Discrete Transistor Removal/Replacement

- Remove the defective transistor by clipping its leads as close as possible to the component body.
- Bend into a "U" shape the end of each of the three leads remaining on the circuit board.
- 3. Bend into a "U" shape the replacement transistor leads.
- 4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact, then solder each connection.

Power Output Transistor Devices Removal/Replacements

- Heat and remove all solder from around the transistor leads.
- 2. Remove the heatsink mounting screw (if so equipped).
- 3. Carefully remove the transistor from the circuit board.
- 4. Insert new transistor in circuit board.
- 5. Solder each transistor lead, and clip off excess lead.
- 6. Replace heatsink.

Diode Removal/Replacement

- Remove defective diode by clipping its leads as close as possible to diode body.
- Bend the two remaining leads perpendicularly to the circuit board.
- Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
- 4. Securely crimp each connection and solder it.
- 5. Inspect (on the circuit board copper side) the solder joints of the two "original leads". If they are not shiny, reheat them and, if necessary, apply additional solder.

Fuses and Conventional Resistor Removal/Replacement

- Clip each fuse or resistor lead at top of circuit board hollow stake.
- 2. Securely crimp leads of replacement component around stake 1/8 inch from top.
- 3. Solder the connections.

CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board, to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board, causing the foil to separate from, or "lift-off," the board. The following guidelines and procedures should be followed whenever this condition is encountered.

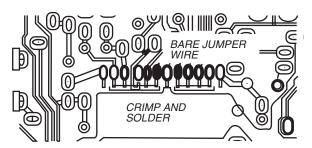
In Critical Copper Pattern Areas

High component/copper pattern density and/or special voltage/current characteristics make the spacing and integrity of copper pattern in some circuit board areas more critical than in others. The circuit foil in these areas is designated as Critical Copper Pattern. Because Critical Copper Pattern requires special soldering techniques to ensure the maintenance of reliability and safety standards, contact your Hitachi personnel.

At IC Connections

To repair defective copper pattern at IC connections, use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections.)

- Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary.)
- Carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.

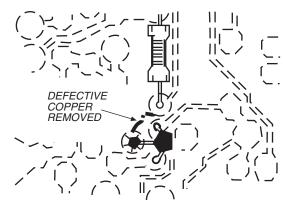


Install Jumper Wire and Solder

- Bend a small "U" in one end of a small-gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
- 4. Route the jumper wire along the path of the cut-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area, and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.



Insulated Jumper Wire

- Remove the defective copper pattern with a sharp knife.
 Remove at least 1/4 inch of copper, to ensure hazardous condition will not exist if the jumper wire opens.
- 2. Trace along the copper pattern from both wire sides of the pattern break and locate the nearest component directly connected to the affected copper pattern.
- Connect insulated 20-gauge jumper wire from the nearest component on one side of the pattern break to the lead of the nearest component on the other side. Carefully crimp and solder the connections.

CAUTION: Be sure the insulated jumper wire is dressed so that it does not touch components or sharp edges.

NOTE: These components are affixed with glue. Be careful not to break or damage any foil under the component or at the pins of the ICs when removing. Usually applying heat to the component for a short time while twisting with tweezers will break the component loose.

Leadless Chip Components (surface mount)

Chip components must be replaced with identical chips due to critical foil track spacing. There are no holes in the board to mount standard transistors or diodes. Some chip capacitor or resistor board solder pads may have holes through the board, however the hole diameter limits standard resistor replacement to 1/8 watt. Standard capacitors may also be limited for the same reason. It is recommended that identical chip components be used.

Chip resistors have a three digit numerical resistance code -1st and 2nd significant digits and a multiplier. Example: 162 = 1600 or $1.6K\Omega$ resistor, $0 = 0\Omega$ (jumper).

Chip capacitors generally do not have the value indicated on the capacitor. The color of the component indicates the general range of the capacitance.

Chip transistors are identified by a two letter code. The first letter indicates the type and the second letter, the grade of transistor.

Chip diodes have a two letter identification code as per the code chart and are a dual diode pack with either

common anode or common cathode. Check the parts list for correct diode number.

Component Removal

- Use solder wick to remove solder from component end caps or terminals.
- 2. Without pulling up, carefully twist the component with tweezers to break the adhesive.
- 3. Do not reuse removed leadless or chip components since they are subject to stress fracture during removal .

Chip Component Installation

- Put a small amount of solder on the board soldering pads.
- 2. Hold the chip component against the soldering pads with tweezers or with a miniature alligator clip and apply heat to the pad area with a 30 watt iron until solder flows. Do not apply heat for more than 3 seconds

Chip Components TYPE SOLDER GRADE CAPS TRANSISTOR CAPACITOR 1ST DIGIT 2ND DIGIT COMMON CATHODE MUI TIPI IFR 1600 = 1.6K ANODES SOLDER CAPS MH DIODE RESISTOR

How to Replace Flat-IC —Required Tools—

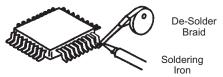
Soldering iron

· iron wire or small awl

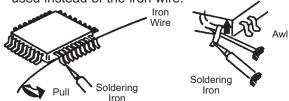
De-solder braids

Magnifier

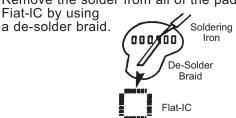
1. Remove the solder from all of the pins of a Flat-IC by using a de-solder braid.



 Put the iron wire under the pins of the Flat-IC and pull it in the direction indicated while heating the pins using a soldering iron. A small awl can be used instead of the iron wire.



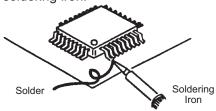
3. Remove the solder from all of the pads of the



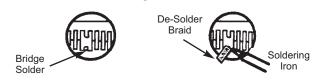
4. Position the new Flat-IC in place (apply the pins of the Flat-IC to the soldering pads where the pins need to be soldered). Properly determine the positions of the soldering pads and pins by correctly aligning the polarity

symbol.

Solder all pins to the soldering pads using a fine tipped soldering iron.



6. Check with a magnifier for solder bridge between the pins or for dry joint between pins and soldering pads. To remove a solder bridge, use a de-solder braid as shown in the figure below.



Information for service about lead-free solder introduction

Hitachi introduced lead-free solder to conserve the "Earth Environment".

Please refer to the following before servicing.

(1) Characteristic of lead-free solder

Melting point of lead free solder is 40-50°C higher than solder containing lead.

(2) Solder for service

Following composition is recommended.

" Sn - 3.0Ag - 0.5Cu ", or " Sn - 0.7 Cu "

Lead solder can be used, but there is a possibility of failure due to insufficient strength of the solder.

Caution when using solder containing lead.

Please remove previous solder as much as possible from the soldering point.

When soldering, please perfectly melt the lead-free solder to mix well with the previous solder.

(3) Soldering iron for lead-free solder.

Melting point of lead-free solder is higher than solder containing lead.

Use of a soldering tool "with temperature control" and "with much thermal capacitance" is recommended. (Recommended temperature control: 320°C - 450°C)

Recommended temperature

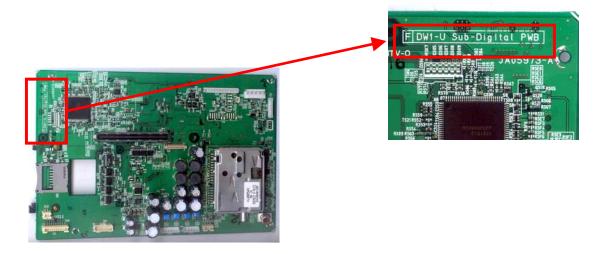
PWB with chip parts 320°C +/- 30°C PWB without chip parts 380°C +/- 30°C Chassis, metal, shield etc. 420°C +/- 30°C

(4) Identification of lead-free PWB

2003 models >> not applied >> mixed

2004 models >> lead-free solder is introduced 2005 models >> lead-free solder apply

On lead-free PWB, "F" is added at the beginning of stamp on PWB. (e.g. F DW1)



AGENCY REGULATORY INFORMATION

Federal Communications Commission Notice

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

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

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by Hitachi Home Electronics (America), Inc. may void the user's warranty.

Cables

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

Any cables that are supplied with the system must be replaced with identical cables in order to assure compliance with FCC rules. Order Hitachi spares as replacement cables.

Declaration of Conformity

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

For questions regarding this declaration, contact:

Hitachi America, LTD. Home Electronics Division 900 Hitachi Way Chula Vista, CA 91914 Tel. 1-800-448-2244 (1-800-HITACHI)

ATTN: CUSTOMER RELATIONS



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ACKNOWLEDGMENTS AND TRADEMARKS

This Plasma Television complies with VESA DDC2B specifications, Plug & Play is a system with computer, peripherals (including monitors) and operating system. It works when the monitor is connected to a DDC ready computer that is running an operating system software that is capable for the plug & play.

When a Plug and Play PC is powered on, it sends a command to the Monitor requesting identification. The Monitor sends back a string of data including its characteristics.



TRADEMARK ACKNOWLEDGMENT

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IBM PC/AT and VGA are registered trademarkds of International Business Machines Corporation of the U.S.A. Apple and Macintosh are registered trademarks of Apple Computer, Inc.

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This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

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

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Cable Compatible Television Apparatus- Tèlèvision câblocompatible, Canada.

Notes on Closed Caption:

This Plasma Television receiver will display television closed captioning, (or), in accordance with paragraph 15.119 of the FCC rules.

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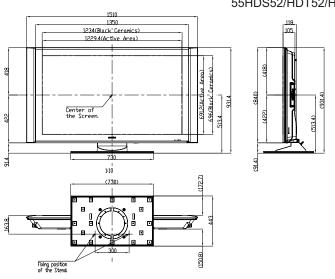
INTRODUCTION

The Digital AV Block is inside of the Panel assembly controls most of the user functions of the complete TV set and conditions the signal to the plasma panel.

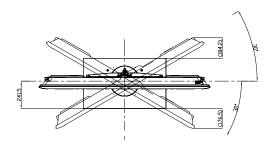
The 42" and 55" monitors contain the displaying device, which is the plasma display panel module, and the driving circuitry, which receives the signal from the Digital AV Block and after processing, delivers the image to the display module.

This HITACHI Service Manual is intended for the qualified service personnel and it contains the necessary information for troubleshooting the Plasma television set in case of malfunction.

DIMENSIONS:



55HDS52/HDT52/HDX62



POWER RATINGS:

			Indicate	d Value	Psi	Γ(W)	
		Max Rating		Average	Without POD.	With POD.	
No.	Model Name	(W) (A)		Rating (W)	less than 1W	less than 14W	Chassis
1	55HDS52/HDT52	500W	4.5A	326W	0.5W	15W	DW-1U
	55HDX62						

CIRCUIT PROTECTION

CAUTION:

Below is an EXAMPLE only. See Replacement Parts List for details. The following symbol near the fuse indicates fast operation fuse (to be replaced). Fuse ratings appear within the symbol.

Example:



"RISK OF FIRE - REPLACE FUSE AS MARKED"

6.3 A	
250V	

The rating of fuse F902 is 6.3~A - 250V. Replace with the same type fuse for continued protection against fire.

Specification Features

A-Plasma

Model			l	55HDS52/55HDT52/55HDX62	
			<u> </u>		
Dimension	Size		1	1510mm x 931.4mm x 443mm	
	Weight		2	71k g	
A/C Input	Input AC Voltag	je	3	AC108V~132V (with 3 Plug AC Power Cord inlet	
Voltage			_	type ,1.8m length)	
	Input AC Frequ		4	60Hz	
	Power Consum	•	5	370W, SBY/POD -SBY less than 1W/15W	
Front End	Front End(Sub/	(ATSC)	6	ENGE6401DF/ENV56N01D5F	
	Available Channel			NTSC/NTSC/ATSC(8VSB).64QAM.256QAM)	VHP
	Available Chan	nei	7	2~13 14 ~ 69	UHF
			8	**	
			9	A-5~A-1,A~W,W+1~W+94	CATV
Input Signal	gnal Video Signal		10	NTSC	
	Component Sig	ınal	11	480 i/p. 1080 i, 720p	
	PC Signal		12	VGA - UXGA fH:24KHz-1 09KHz,fV:50Hz-	
				85Hz)	
	HDMI Signal		13	480i,480p,720p,1080i(EIA-861B)	
Picture	Y/C Separat	ion	14	3D Y/C (ON fix)	
	Line Correction	1	15	No	
	I-P Conversion		16	Motion Adaptive & Multi Angle Interpolation	FC6
	Picture Mode		17	Day.Night	
	Display Mode		18	42:1024i,55:768p	Video Signal
			19	42:1024i,55:768p	ComponentSignal
			20	42:1024i,55:768p	PinP Mode
			21		-
Sound Enhand	cement		22	TruBass or Dynamic Bass (High, Low, Off) BBE(Off,Soft,Hard) SRS (Off,Normal,Wide)	
Adjustment	Settings for Vid	eo Signal	23	Picture,Contrast,Brightness,Color,Tint , Sharpness, W/B Temp.Black Enhancement .Contrast Mode.Color Management/Decoding ,Auto Color.Noise Reductfon.Auto Movie Mode, .Black Side Panel	
	Settings for Sou	nd	24	Vol, Balance, Bass.Treble, Source, Internal Speakers ,Auto Noise Cancel.Perfect Volume.Mute.Soft Mute	
			25		
			26		
General	PinP	Split	27	With(All video signal combinations, except PC signal)	Except Photo Input
Function	Mode	Strobe	28	With(4Pix:only ANT A/B, Video, 480i)	Except Photo Input
		Surf	29	With(SURF12:only AMT A/B)	Except Photo Input
		POP	30	WithfMain: ANT A/B,Video.480i Sub: ANT A/B,Video.480i,1080i)	Except Photo Input
		PIP	31	With(Main:1080i Sub: ANT A/B,Video,480i.10aoi)	Except Photo Input
		Freeze	32	With(4Pix:only ANT A/B,Video,480i)	Except Photo Input
	Wide Mode	1 10020	33	6Mode	a live and a substant
	Aspect	Video Selection	34	4:3 Standard/1 6:9 Standard/ 4:3 Expanded/Zoom 1/Zoom 2/16:9 Zoom	
	PC		35	Full/Normal/Real (Real 42:VGA,55:VGA/SVGA/XGA/WXGA)	
	Film Theater		36	With(Auto Movie Mode:On/Off)	
	Color Tempera	turo	37	4Mode (High/Medium/Standard/Black & White)	
			_		
	Input Signal Se	IEGUUH	38	VIDEO1/2/3/4/5, Cable/ Air,IEEE1394,Photo Input	

Specification Features

A-Plasma

Model			55HDS52/55HDT52/55HDX62	
General	Gamma Correction	39	Only for Service Menu	
Function	Picture Enhancer	40	-	
	Input Signal Identification	41	yes	
	Audio Special Mode	42	No	
	Power Save Mode	43	With (On/Off) (Video In)	LED Normal: Green
		44		Power Save: Orange
				Stand by: Red
	Burning Protection	45	With (Raster Shift:3 option.All White Pattern)	
	OSD Language (VIDEO)	46	ENGLISH.FRANCAIS.ESPANOL	
	Power Swivel	47	With	
R/C Handse	t	48	CLU-3841WL/CLU-122S	PANASONIC/UEI
n/Out		49		
Terminal	Composite Video Input (VIDEO1~5)	50	5 Input: RCA pin* 5 (1 Input Front Panel)	
	S-In(S2 Terminal) (Video/S are common selector, priority is S-In) .	51	3 InputMini Din-4P x 3 (1 SIn on Front Panel)	
	Component Signal Input	52	2 Input:RCA pin x 6(Y of VIDEO1/2 is common	
	(VIDEO3.VIDEO4)	F 2	input for Composite-In)	
	Digital Input(HDMH-HDCP)	53	2 Input:HDMI(18P)X1 (Selected by component Video1/2.Digital input priority)	
	Audio In (L/R) (Lch:mono)	54	6 Input;RCApinxi2 (RGB:1 Input,Video:5 Input)	
	CATV In	55	1 Input (VIDEO2 LINK)	Auto Link Function
	Video Control Terminal (BS)	56	No	
	U/V Ant Input	57	CABLE IN / AIR-B IN	
	BS-I/F Input	58	No	
	Video Monitor Out Terminal	59	1 Output: RCA pin x 1	
	Audio Output Terminal	60	1 Output UR:RCA pin x 2(Common input for No.59)	
	Audio Monitor Out Terminal	61	1 Output L/R:RCA pin x 2	
	IR-OUTPUT	62	2 Terminal	
	Headphone Terminal	63	1 Terminal (only for AVC)	
		64		
	IEEE 1394 Input	65	2 (4pin connector)	55HDT52/55HDX62 Only
	RS-232C Terminal	66	1 (Female type)	
	Photo Input	67 68	1 (On Side panel)	
ront	Audio Optical Output Main Power Switch	69	1 (Square type) Yes , below panel	
-roni Key	Power On/off Switch	70	Yes, pelow panel	
. ∪y	IR Receiving Unit	71	Yes, on front panel	
	Power Indicator LED	72	Yes, on front panel	
	Menu Control Key		Yes, on side panel (Channel U/D, Vol U/D, A/V Input Select , Menu Select)	
Option	POP TV Stand	74	With	
are ref	Wall Mount Unit	75	With	
		76	-	

Environment Specification

NO	Item	Specification						
1	Operating Temp.	+5°C~+35°C						
2	Stock Temp.	-15°C~+60°C						
3	Operating Humidity	20%~80%RH						
4	Stock Humidity	20%~90%RH						
5	Operating Atmosphere Pressure	800~1114h Pa						
	T 1033u10	(1888m~-757m)						
6	Stock Atmosphere Pressure	300~1114h P a						
		(4727m~-757m)						
7	Warranty Gravity Vertical	0.85 G						
8	Warranty Drop High	30cm						
9	Tilt Angle	12° Over						

Basic Differences and Specifications

		Model Name	Chassis	Class	Basic. Digital	POD	EPG	MEDIA	FC	3/2	Memory	Shiled	Resolution	OSD	Color	PIP	AV NET	Remote	Simple
N	0				Cable		Gemstar	M/C		Pull Dwn	by Inputs				Temperature				(UEI)
		55HDX62	DW1-U	Director's	Х	Х	Χ	USB	FC6	Auto/Off	Χ	Dark filter	1024*1024	05 Director OSD	5400/6500/9300/12000	Digital/Analog SPLIT	IV	PANA Black	Х
- 2	2	55HDT52	DW1-U	UltraVision	Х	Х	Χ	USB	FC6	Auto/Off	Х		1024*1024	05 OSD A	5400/6500/9300/12000	Digital/Analog SPLIT	IV	PANA Black	-
	3	55HDS52	DW1-U	UltraVision	X	Х	_	USB	FC6	Auto/Off	X		1024*1024	05 OSD B	5400/6500/9300/12000	Digital/Analog SPLIT	IV	PANA Black	-

				Rear Jacks											Fr	ont Jac	ks							
	Model Name	Descrete	Surround s	sound	Output	Speaker	Digital I/	F	IR-Out	RS232C	YPbPr	S IN	AV IN	S OUT	AV	6CH Audio	Variable	2 RF	S IN	AV IN	DV	Auto Link	Power	Remote
NC		Code	Dolby	SRS/BBE	(Watt)		IEEE1394,5C	HDMI							Out	In/Out	Audio out						LED	Swivel
1	55HDX62	Х	Dby AC3 Dwnmix	WOW,BBE	40	2FR,2W	1	2	2	Х	2(1H,2H,2.14H)	2	4	1	1	Opt-Out(opt)	Х	Χ	1	1	1	X(G)	RED	X
2	55HDT52	Х	Dby AC3 Dwnmix	WOW,BBE	40	2FR,2W	1	2	2	Х	2(1H,2H,2.14H)	2	4	1	1	Opt-Out(opt)	Х	Χ	1	1	1	X(G)	RED	Х
3	55HDS52	Х	Dby AC3 Dwnmix	WOW,BBE	40	2FR,2W	_	2	2	Х	2(1H,2H,2.14H)	2	4	1	-1	Opt-Out(opt)	Х	Х	1	1	_	X(G)	RED	Х

	Model Name	Color	Color	Auto	ISF
NO		Decording	Management	Color	MODE
1	55HDX62	×	× (Gain/Phase)	×	×
2	55HDT52	-	-	-	-
3	55HDS52	-	-	-	-

3. General Specification

3.1 Model Spec

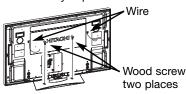
Model Name Item		55HDS52/55HDT52/55HDX62
Destination		U.S.A. / CANADA
Exterior	Cabinet Dimensions	1510X840X118 mm
	(Main Body) (Speaker &	1510x931x443 mm
	stand inclusive)	
	Frame Color Screen	Dark Charcoal Metallic
	Stand	Inclusive (With Power Swivel)
	Weight (Main Body)	
	(Speaker & stand	
	inclusive)	71.0 kg typ. 74.0 kg
	(Main Body: Packed)	
	Screen Size	922x522mm(42Inch 16:9)
Display Panel	Resolution	1024x1024 pixels
	Dot Pitch (H)	0.90mm
	Dot Pitch (V)	0.51mm
	Viewing Angle (H)	±85°
	Viewing Angle (V)	±85°
Front Filter	Surface Finishing	AR Coating, Mesh
Brightness	Peak Brightness (1%	280 cd/m ² or more
	window)	(When VIDEO, Sports, Color tem-
		perature 'HIGH' Input Signal Am-
		plitude 100 % is set)
		280 cd/m ² or more
		(When RGB is set)
	All White Pattern	5Ocd/m or more
Contrast	Contrast ratio	1000 : 1 (typ)
Color Reproduction	Color Reproduction	16.7 million colors or more
Audio Output	Audio Output	12W+ 12W(6ohm>,10%Distortion)
Panel Operation	Main Power Switch	PUSH (LOCK) 1 switch
i anei Operation	Power Switch	PUSH (NON-LOCK) 1 switch
Input Terminal	Video/Audio Input	RCA , HDMI DV connector
mpat romma	Traco, ridaio inipat	TOTAL TIBELLE BY CONTINUOUS
Output Terminal	Audio Line Output	Sub Woofer Output 1 system
	Speaker Output	
Power Supply	Connector	3 Polarity Receptacle
Source	Input Voltage	Single Phase AC108-132V, 6 OHz
Guaranteed	Temp. (Operating)	5~35°C (41F~95F)
Environment	Temperature (Stored)	-15~60°C (5F~140F)
Condition	Humidity (Operating)	20~80%RH (Non-condensing)
	Humidity (Stored)	20~90%RH (Non-condensing)
	Atmospheric Pressure	800 to 1114hPa
	(Operating)	(altitude: 1888m to -757m,
	(Operating)	6194feet to -2483feet)
	Atmospheric Pressure	300 to 1114hPa (Altitude:
	(Storage)	9727m to -757m, 31912feet to - 2483feet)

How To Set Up Your New Hitachi Plasma Television

To take measures to prevent the Plasma Television from tipping over and prevent possible injury it is important to mount the unit in a stable and flat surface.

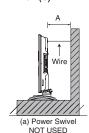
Securing to a table-top

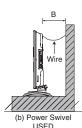
- Using wood screws (two) fasten the set to the clamping screw holes on the rear of the Plasma Display stand as shown below.
- Using commercially available wood screws, secure the set firmly in position.



Securing to a Wall

- Keep the Plasma television 4 inches away from the wall except when mounted using the wall mount bracket.
- Secure the television to the wall as shown in fig. (a) or (b).





	Α	В
42"	4 in.	12 in.
	10 cm	30 cm
55"	4 in.	16 in.
	10 cm	39 cm

NOTES:

- Do not block the ventilation holes of the Plasma Television. Blocking the ventilation holes might cause fire or defect.
- 2. In case of an abnormal symptom, unplug the AC cord.
- If you purchased the wall mount bracket option, please ask for professional installer. Do not install by yourself.
- If the Power Swivel feature will not be used, the Plasma television should be secured to the wall as shown in fig. (a).
- 5. If the Power Swivel feature will be used, the Plasma television should be secured to the wall as shown in fig. (b). The wires need to be long enough to allow the television to turn 30° to the left and right.

Caution when moving the main unit

As this product is heavy, whenever it is moved, two people are required to transport it safely. Whenever the unit is moved it should be lifted forward using the top and bottom sides of the Television for stability. When moving the Television, lift the handles that support the top frame (55" models) and the bottom frame as shown below. Do not grab the speakers or the back cover when lifting.

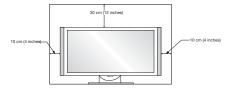


ANTENNA

Unless your Plasma Television is connected to a cable TV system or to a centralized antenna system, a good outdoor color TV antenna is recommended for best performance. However, if you are located in an exceptionally good signal area that is free from interference and multiple image ghosts, an indoor antenna may be sufficient.

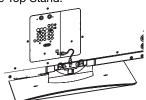
LOCATION

Select an area where sunlight or bright indoor illumination will not fall directly on the picture screen. Also, be sure that the location selected allows a free flow of air to and from the perforated back cover of the set. In order to prevent an internal temperature increase, maintain a space of 10 cm (4 inches) from the sides/back of the Television, and 30 cm (12 inches) from the top of the television to the wall. To avoid cabinet warping, cabinet color changes, and increased chance of set failure, do not place the TV where temperatures can become excessively hot, for example, in direct sunlight or near a heating appliance, etc.



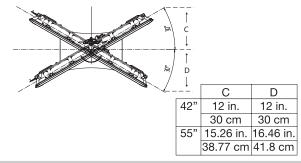
CONNECT POWER SWIVEL CABLE

Connect one end of cable (Arrow mark facing left) to the swivel slot of the Plasma Rear Panel. Connect the other end (Arrow mark facing front) to the swivel slot of the Table Top Stand.



TURNING RADIUS

The maximum turning radius is 30° (left and right). Do not place any objects on the path of the monitor when using the power swivel feature.



NOTE: The Table Top Stand and Power Swivel cable for model 55HDT52 are not included (Optional).



HOW TO SET UP YOUR NEW HITACHI PLASMA TELEVISION

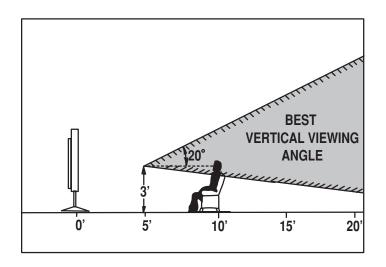
VIEWING

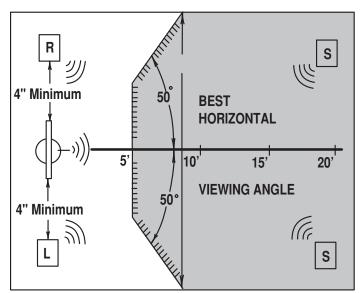
The major benefit of the HITACHI Plasma Television is its large viewing screen. To see this large screen at its best, test various locations in the room to find the optimum spot for viewing.

The best picture is seen by sitting directly in front of the TV and about 8 to 18 feet from the screen.

During daylight hours, reflections from outside light may appear on the screen. If so, drapes or screens can be used to reduce the reflection or the TV can be located in a different section of the room.

If the TV's audio output will be connected to a Hi-Fi system's external speakers, the best audio performance will be obtained by placing the speakers equidistant from each side of the receiver cabinet and as close as possible to the height of the picture screen center. For best stereo separation, place the external speakers at least four feet from the side of the TV, place the surround speakers to the side or behind the viewing area. Differences in room sizes and acoustical environments will require some experimentation with speaker placement for best performance.

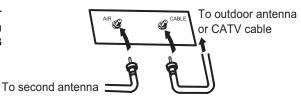




ANTENNA CONNECTIONS TO REAR PANEL JACKS

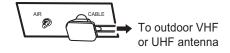
VHF (75-Ohm) antenna/CATV (Cable TV)

When using a 75-Ohm coaxial cable system, connect the outdoor antenna or CATV coaxial cable to the ANT A (75-Ohm) terminal. If you have a second antenna, connect the coaxial cable to the ANT B terminal.



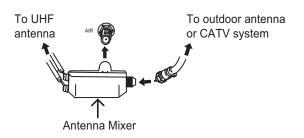
VHF (300-Ohm) antenna/UHF antenna

When using a 300-Ohm twin lead from an outdoor antenna, connect the VHF or UHF antenna leads to screws of the VHF or UHF adapter. Plug the adapter into the antenna terminal on the TV.



When both VHF and UHF antennas are connected

Attach an optional antenna cable mixer to the TV antenna terminal, and connect the cables to the antenna mixer. Consult your dealer or service store for the antenna mixer.



Hook-up Cables and Connectors



Most video/audio connections between components can be made with shielded video and audio cables that have phono connectors. For best performance, video cables should use 75-Ohm coaxial shielded wire. Cables can be purchased from most stores that sell audio/video products. Below are illustrations and names of common connectors. Before purchasing any cables, be sure of the output and input connector types required by the various components and the length of each cable.

300-Ohm Twin Lead Connector

This outdoor antenna cable must be connected to an antenna adapter (300-Ohm to 75-Ohm).

Phono Connector

Used on all standard video and audio cables which connect to inputs and outputs located on the television's rear jack panel and front control panel.

"F" Type 75-Ohm Coaxial Antenna Connector

For connecting RF signals (antenna or cable TV) to the antenna jack on the television.

S-Video (Super Video) Connector

This connector is used on camcorders, VCRs and laserdisc players with an S-Video feature in place of the standard video cable to produce a high quality picture.

Optical Cable

This cable is used to connect to an audio amplifier with an Optical Audio In jack. Use this cable for the best sound quality.

HDMI Cable

This cable is used to connect your external devices such as Set-Top-Boxes or DVD players equipped with an **HDMI** output connection to the TV's **HDMI** input.

Stereo Cable (3.8mm plug to 3.5mm plug)

Used on all standard video and audio cable which connect to inputs and outputs located on the rear jack panel and front control panel.

USB Cable

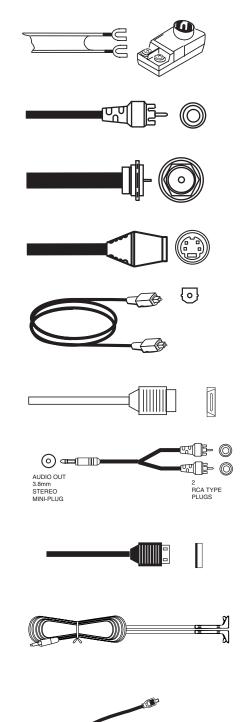
This cable is used to connect your digital camera to the Photo Input in the side of the Plasma television.

IR Mouse Cable (Provided)

Connect the IR Mouse to the IR output of your Plasma Television when A/V Network is used. You must place the IR mouse in front of the corresponding IR window of your cable box and VCR. This connection allows your TV to control your cable box and VCR.

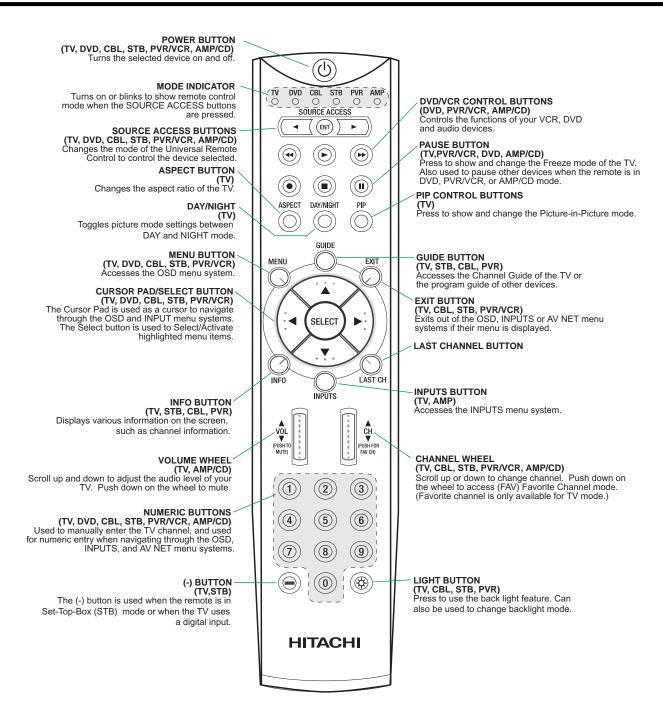
Power Swivel Cable (Provided)

This cable is used to connect the swivel stand to the rear panel of the Plasma Television.





QUICK REFERENCE REMOTE CONTROL



In addition to controlling all of the functions on your HITACHI Plasma TV, the remote control is designed to operate different types of devices, such as, DVD Players, Cable Boxes (CBL), set-top-boxes, satellite receivers, PVRs/VCRs and audio devices. The remote control must be programmed to control the chosen device. Refer to Instruction Book for detailed programming instructions.

LEGEND

TV - Television

DVD - Digital Video Disc Player

CBL - Cable Box

STB - Set-Top-Box/Satellite Receiver

PVR - Personal Video Recorder

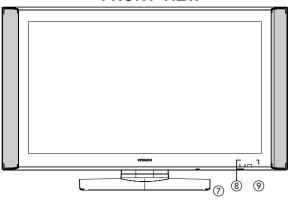
VCR - Video Cassette Recorder/Player

AMP/CD - Amplifier/Compact Disc Player, Audio Devices

- **NOTES:** 1. VCR precode is included in the PVR mode.
 - 2. CD precode is included in the AMP mode.
 - 3. Pressing any buttons will illuminate the backlight for 4 seconds while in Automatic mode (Default).

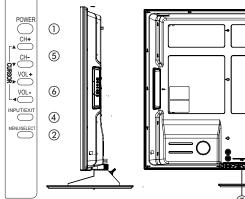


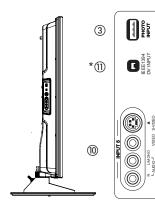
FRONT VIEW



HITACHI

REAR/SIDE VIEW





Only 55HDT52 and 55HDX62

(1) SIDE POWER button

Press this button to turn the Plasma Television ON/OFF. It can also be turned ON/OFF by remote control. The "MAIN POWER" button must be at stand-by mode.

② MENU/SELECT button

This button allows you to enter the MENU, making it possible to set TV features to your preference without using the remote. This button also serves as the SELECT button when in MENU mode.

3 PHOTO INPUT

Insert USB cable from your Digital Camera, USB memory or memory card USB drive to view your digital still pictures.

4 INPUT/EXIT button

Press this button to access the INPUT menu. Press again to exit the MENU mode.

(5) CHANNEL selector

Press these buttons until the desired channel appears in the top right corner of the TV screen. These buttons also serve as the cursor down (▼) and up (▲) buttons when in MENU mode.

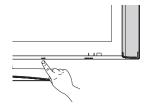
6 VOLUME level

Press these buttons to adjust the sound level. The volume level will be displayed on the TV screen. These buttons also serve as the cursor left (◀) and right (▶) buttons when in MENU mode.

⑦ POWER button

Display Monitor "MAIN POWER" button

This power button is for the complete system, and must be turned ON/OFF manually. It is recommended to leave the "MAIN POWER" to ON condition (lights red) for stand-by mode.



The Main Power button is located on the broadside bottom, under the label "MAIN POWER".

NOTE: When the "MAIN POWER" button is set to OFF or the TV is unplugged, the clock will stop and may eventually reset itself.

Front/Rear/Side Panel Controls

8 POWER light indicator

To turn the monitor ON, press the main power switch located on the lower right side of the monitor. A red stand-by indicator lamp located on the lower right corner of the front bezel will illuminate. The Plasma TV is now ready for remote ON/OFF operation.

Indicating Lamp	Power Status	Operating	
Off	Off	When the main power switch is set to	
		OFF.	
Lights Red	Off	When the main power switch on the display	
	(Stand-by)	monitor is ON.	
Lights Green	On	Display monitor MAIN POWER is ON.	
Lights Orange	Off	Display monitor MAIN POWER is ON	
	(Power Saving)	ower Saving) with no signal input except antenna	
		(no sync. signal).	

REMOTE CONTROL sensor

Point your remote at this area when selecting channels, adjusting volume, etc.

LEARNING AV NET sensor

Point your equipment's remote control at this area while using the AV NET Learning Wizard.

(1) SIDE INPUT JACKS (for VIDEO: 5)

Use these audio/video jacks for a quick hook-up from a camcorder or VCR to instantly view your favorite show or new recording. Press the INPUTS button then use the CURSOR PAD and the SELECT button on the remote control to select INPUT 5. If you have mono sound, insert the audio cable into the left audio jack.

(I) IEEE1394 (DV Input) Only for 55HDT52 & 55HDX62

This input provides a digital interface for your external digital devices such as your digital video (DV) camcorder.

NOTES: 1. Your HITACHI Plasma TV will appear to be turned OFF (lights orange) if there is no video input when VIDEO: 1, 2, 3, 4 and 5. Check the Power Light to make sure the Display Monitor is turned off or in Stand-by mode (lights red) when not in use.

2. Remote Control can not turn ON/OFF the "MAIN POWER" of the display monitor.

REAR PANEL CONNECTIONS



① Antenna Input

The remote control allows you to switch between two separate 75-Ohm RF antenna inputs, CABLE and AIR. CABLE input can be displayed as a main picture or sub-picture. AIR can only be displayed as a main picture (AIR cannot be displayed as a sub-picture).

2 Audio/Video Inputs 1, 2, 3 and 4

By using the INPUTS button, the CURSOR PAD (▲ and ▼), and the SELECT button or CURSOR PAD ▶ of the remote control, you can select each video source. Use the audio and video inputs to connect external devices, such as VCRs, camcorders, laserdisc players, DVD players etc. (if you have mono sound, insert the audio cable into the left audio jack).

3 MONITOR OUT & HI-FI AUDIO OUT

These jacks provide fixed and variable audio and video signals (CABLE/AIR, INPUT 1, 2 and 5) which are used for recording. Use the S-VIDEO Output for high quality video output. Component signal to Input 1 and 2, and HDMI inputs will not have monitor output.

④ Optical Out (Digital Audio)

This jack provides Digital Audio Output for your audio device that is Dolby® Digital and PCM compatible, such as an audio amplifier.

NOTE: *Manufactured under license from Dolby
Laboratories. "Dolby" and the double-D
symbol are trademarks of Dolby
Laboratories.

(5) S-VIDEO Inputs 1 and 2

Inputs 1 and 2 provide S-VIDEO (Super Video) jacks for connecting equipment with S-VIDEO output capability.

NOTE: 1. You may use VIDEO or S-VIDEO inputs to connect to INPUT 1 and 2, but only one of these inputs may be used at a time.

S-VIDEO output may be used for recording, only when the input is of S-VIDEO type.

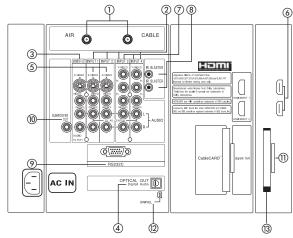
6 HDMI1 (High Definition Multimedia Interface) (INPUT 1)

ABOUT HDMI – HDMI is the

next-generation all digital interface for consumer
electronics. HDMI enables the secure distribution
of uncompressed high-definition video and multichannel audio in a single cable. Because digital
television (DTV) signals remain in digital format,
HDMI assures that pristine high-definition images
retain the highest video quality from the source all
the way to your television screen.

Use the **HDMI** input for your external devices such as Set-Top-Boxes or DVD players equipped with an **HDMI** output connection.

HDMI, the **HDMI** logo and High-Definition Multimedia Interface are trademarks or registered



trademarks of HDMI Licensing LLC.

- **NOTE:** 1. The **HDMI** input is not intended for use with personal computers.
 - Only DTV formats such as 1080I, 720P, 480I and 480P are available for HDMI input.

7 Component: Y-PBPR Inputs

INPUTS 3 and **4** provide Y-P_BP_R jacks for connecting equipment with this capability, such as a DVD player or Set Top Box. You may use composite video signal for both inputs.

NOTE: 1. Do not connect composite VIDEO and S-VIDEO to INPUT 1, 2 or 5 at the same time. S-VIDEO has priority over VIDEO input.

- 2. Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y output to the TV's PB input and the components R-Y output to the TV's PR input.
- 3. Your component outputs may be labeled Y-CBCR. In this case, connect the component CB output to the TV's PB input and the component CR output to the TV's PR input.
- 4. It may be necessary to adjust **TINT** to obtain optimum picture quality when using the Y-PBPR inputs (see page 41).
- 5. To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-PBPR jacks and HDMI Input.
- INPUT 3 and INPUT 4 (Y/VIDEO) can be used for composite video and component video input.

(8) IR Blaster

This jack provides IR output to your external components (VCR, Cable box, DVD player, etc.). With this connection, your external components can automatically be controlled by the A/V network feature. This connection will allow you to control the external components with your Plasma Television's remote control in TV mode.

9 For Service Use Only

Do not connect anything to this terminal. Specifically for Service use only.



FRONT/REAR/SIDE PANEL CONNECTIONS

(10) Subwoofer Out

Connect this SUB WOOFER OUT output to the external audio component input using the sub woofer cable provided.

(1) Upgrade Card

This card slot is for future software upgrades. Hitachi will notify you if a software upgrade is required for your TV. In order to receive written notification, please complete and return your warranty card.

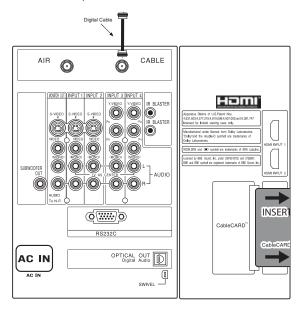
12 To Power Swivel Connector

Connects to the Power Swivel Table Top Stand.

(3) CableCARD Slot

This slot is for the CableCARD that will be provided by your local cable operator to gain access to chosen cable channels. The CableCARD will allow you to tune digital and high definition cable channels. Please call your local cable operator if this service is available before requesting a CableCARD (also known as Point of Deployment (POD) module).

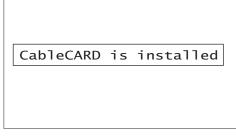
- Connect a coaxial cable to cable terminal of the Rear Panel Jacks.
- Insert the CableCARD into the slot (Top of card should be facing towards you as shown below).



NOTE: 1. A digital cable subscription is required.

- 2. AIR will not be available when CableCARD is inserted.
- 3. Do not insert a PCMCIA card into the CableCARD slot.

If the CableCARD is properly installed or not installed, the TV will display the following respective screens.



CableCARD is not installed

After the CableCARD is installed, wait until the second screen below appears. The third screen below will appear if a channel is not authorized for viewing. Press the **EXIT** button to exit the second screen.

Acquiring Data. Please wait.

In order to start cable service for this device, please contact your cable provider

CableCARD(tm): 123-456-789-1
Host: 123-456-789-1
UnitAddress: 123-456-789-1

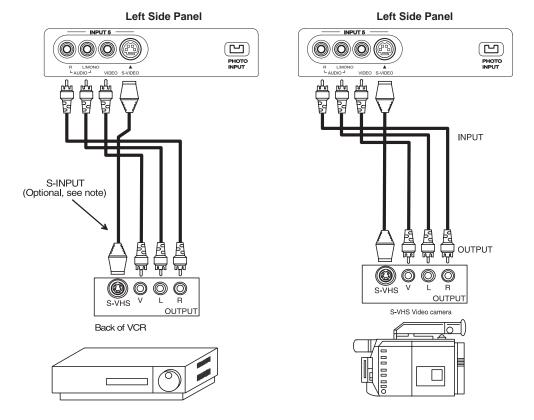
OR

Not an Authorized Channel

Please take note of all information on the screen (you will provide this information to your cable operator). Call your cable operator and give them the information from the card to start your cable service.



The front panel jacks are provided as a convenience to allow you to easily connect a camcorder or VCR as shown in the following examples:



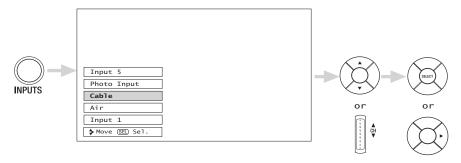
- **NOTE:** 1. Completely insert connection cord plugs when connecting to left side panel jacks. If you do not, the played back picture may be abnormal.
 - 2. If you have a S-VHS VCR, use the S-INPUT cable in place of the standard video cable.
 - 3. If you have a mono VCR, insert the audio cable into the left audio jack of your TV.
 - 4. S-VIDEO input takes priority over VIDEO input.
 - 5. If you have a VHS or 8mmcamcorder, use the S-VIDEO cable in place of the VIDEO cable.

The exact arrangement you use to connect the VCR, camcorder, laserdisc player, DVD player, or HDTV Set Top Box to your Plasma TV is dependent on the model and features of each component. Check the owner's manual of each component for the location of video and audio inputs and outputs.

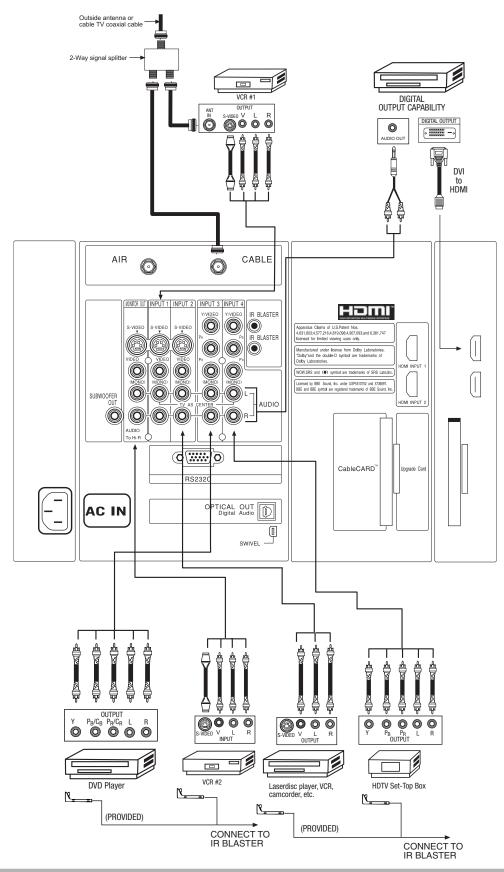
The following connection diagrams are offered as suggestions. However, you may need to modify them to accommodate your particular assortment of components and features. For best performance, video and audio cables should be made from coaxial shielded wire.

Before Operating External Video Source

Connect an external source to one of the INPUT terminals, then press the INPUTS button to show the INPUTS menu. Use the CURSOR PAD (\blacktriangle and \blacktriangledown) to select the Antenna or Input of your choice. Then press the SELECT button or the CURSOR PAD \blacktriangleright to confirm your choice .







NOTE: Cables are optional, except when specified.



TIPS ON REAR PANEL CONNECTIONS

- S-VIDEO, YPbPR, or HDMI connections are provided for high performance laserdisc players, VCRs etc. that
 have this feature. Use these connections in place of the standard video connection if your device has this
 feature.
- If your device has only one audio output (mono sound), connect it to the left audio jack on (L/(MONO)) the Rear Panel.
- Refer to the operating guide of your other electronic equipment for additional information on connecting your hook-up cables.
- A single VCR can be used for VCR #1 and VCR #2, but note that a VCR cannot record its own video or line output (INPUT: 1 in the example on page 25). Refer to your VCR operating guide for more information on line input-output connections.
- Connect only 1 component (VCR, DVD player, camcorder, etc.) to each input jack.
- COMPONENT: Y-P_BP_R (Input 3 & 4) connections are provided for high performance components, such as DVD players and set-top-boxes. Use these connections in place of the standard video connection if your device has this feature.
- Your component outputs may be labeled Y, B-Y, and R-Y. In this case, connect the components B-Y
 output to the TV's P_B input and the components R-Y output to the TV's P_R input.
- Your component outputs may be labeled Y-C_BC_R. In this case, connect the components C_B output to the TV's P_B input and the components C_B output to the TV's P_B input.
- It may be necessary to adjust TINT to obtain optimum picture quality when using the Y-P_BP_R inputs.
- To ensure no copyright infringement, the MONITOR OUT output will be abnormal, when using the Y-PBPR, and HDMI input jacks.
- Input 1 or 2 can accept HDMI signal.
- S-VIDEO monitor output may be used for recording only when the input is of S-VIDEO type.
- When using a DVI or HDMI input from a Set-Top-Box, it is recommended to use a 1080i or 720p input signal.

MACROVISION NOTES:

- 1. Video signals fed through a VCR may be affected by copyright protection systems and the picture will be distorted on the television.
- 2. Connecting the television directly to the Audio /Video output of a Set-Top-Box will assure a more normal picture.



BASIC OPERATION

IMPORTANT NOTES

No.	Items	Notes
1	Arching sound from plasma display monitor's panel.	A buzzing sound might be heard when the plasma display monitor is turned on in a very quiet room. This is due to the plasma panel drive circuit when it is functioning. This arching sound is normal and it is not a malfunction.
2	Interference for infrared equipment.	Some infrared rays are emitted from the plasma display monitor's panel that might affect other infrared controlling equipment.
3	Bright and dark spots	High-precision technology is used to manufacture the plasma display panel; But in some cases, there are minor defects in some parts of the screen. Points that do not light, points with brightness different from that of the periphery, points with color different from that of the periphery, etc. Some pixels will always be on or always off. Please note that this is not a malfunction.
4	Picture Image (Spectrum)	When receving still picture signals, (e.g. channel number indication or clock indication) for a while, you can see image-like when the picture varied. This is not a defect.
5	Display panel surface temperature is too high	The plasma display panel is lighting the phosphors by the discharge of internal radiation. In some cases, this may cause the temperature of the panel surface to increase. Please note that this is not a malfunction. The Plasma TV surface temperature is higher than a Cathode-ray-tube.
6	Plasma Surface	The plasma panel is made from glass. Heavy shock on the front panel might damage it.
7	Transportation	When the PDP monitor is transported horizontally, the glass panel has the possibility of being broken or increasing the picture defects. At the time of transportation, horizontal style is prohibited. More-over, please treat the plasma panel with great care because of a precision apparatus. Please instruct transporters so that it should be put into the packing box at the time of shipment.(There is a possibility that breakage of the panel or defects will increase.) Rough transportation might cause damage to the panel and pixel failure.
8	Image retention	The plasma monitor illuminates phosphor to display images. The phosphor has a finite illumination life. After extended periods of illumination, the brightness of the phosphor will be degraded to such extent that stationary images would burn-in that part of the screen as grayed-out images. Tips to prevent such image retention are: Do not display images having sharp brightness differences or hi-contrast images, such as monochrome characters and graphic patterns, for long. Do not leave stationary images appearing for long, but try to refresh them at appropriate intervals of time, or try to move them using screen saver function. Turn down the contrast and brightness controls.
9	Luminosity and contrast	PDP television has luminosity and low contrast compared with CRT television.
10	Granular spots	When a screen is seen at point-blank range, a random fine grain may be visible to a dark part.
11	Disturbance to video apparatus	If an apparatus (VCR, etc.) antenna line is arranged near the monitor, the image may shake, or disturbance may be received.
12	Lip Sync	There is some time lag betweeen the picture and the sound. You can see lip motion that is delayed compared to the sound.
13	About the use environment of PDP television (temperature)	Electric discharge/luminescence characteristic of the PDP panel also changes with peripheral temperature. Moreover, since there is also high power consumption value, a specified temperature environment is required.
14	Caution on prolonged storage	Storing the plasma television for a period of more than 2 to 3 months without use might cause an unstable picture when the set is turned on.
15	Operating	Operating altitude: 800 to 1114hPa (6194ft to -2484ft). Operating temperature: 41°F to 95°F.
16	Storage	Storage Altitude: 300 to 1114hPa (31,912 to -2484ft). Storage temperature: 5°F to 140°F.
17	Power ON or OFF	Frequent use of the Power ON or OFF might trigger the power protection circuit. If the TV does not turn ON, please wait a little before turning ON again.
_		

ADJUSTMENTS TABLE OF CONTENTS

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1 ADJUSTMENT PROCEDURE START-UP

The 55HDT52 55HDS52 and 55HDX62 PDP TV sets pass through adjustment procedures during the assembly process. These adjustments must be done to assure the best performance of the PDP set for the consumer.

Also, after servicing, these same adjustments must be done. The adjustments are all made through the I²C bus by changing data in the Adjustment mode menu.

Table 2 on pages 38-46 shows the complete parameter list with a brief description, signal format, the adjustment range and the initial data.

1.1 HOW TO GET TO ADJUSTMENT MODE

Chassis adjustment mode can be access by pressing the R/C keys MENU + MENU + 8 + SELECT to enter adjustment mode. For some parameters the only way to see them is by selecting the parameter number than pressed SELECT in order to see it; then DATA can be change if other parameter needs to change then press

▼ key then repeat the same procedure.

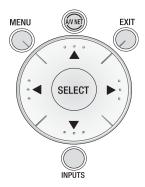
SUB BRIGHT WHITE BAL HIGH WHITE BAL MED WHITE BAL STD WHITE BAL B/W H POSITION ** V POSITION ** FACT RESET
--

Other way to access this mode is by use JIG R/C code: (9C Hex). To escape from Adjustment Mode press "INPUT" key on Side panel or EXIT key of R/C to exit service adjustment mode.

1.2 CHANGING DATA AND SELECTING ADJUSTMENT CODE

When the PDP set is in adjustment mode, the cursor ◀, ▶, ▲, ▼ and MENU keys of the remote control or front panel may be used as the adjustment keys.

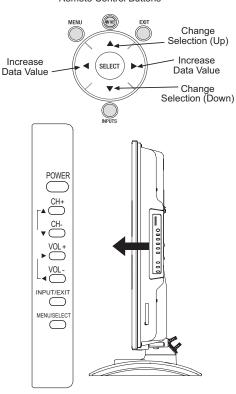
- Use any Hitachi remote control when making an adjustment.
 - ▲, ▼ keys are used for selecting adjustment item.



◀, ▶ keys are used for changing data values.

MENU key is used to advance through the adjustment mode menus and pages.

Remote Control Buttons



- B. To make a selection, use the NUMBER pad on the PDP R/C; example: select SEINE press 69 then SELECT the DATA shown is "EB"; if this DATA needs to be change press the ◀, ▶, keys to modify, when finish press SELECT key to store the new DATA value. normal condition.
- C. After finishing the necessary adjustment press the R/C EXIT key or EXIT key on the side panel. Adjustment mode is released and PDP set returns to normal condition.

2 MEMORY INITIALIZE

2.1 MEMORY INITIALIZE OPERATION

NOTE: The execution of this function returns the adjustment codes to the preset values, therefore, adjustment data will be lost.

Procedure

- (1) Enter Adjustment mode by the method described in sub-items 1.1 and 1.2 from item 1 ("Adjustment procedure start up").
- (2) Get to the second page of Adjust Mode by pressing remote control "Menu" key once, or with either the R/C or front panel ▲, ▼ cursor keys several times.
- (3) Select MEMORY INIT adjust code.
- (4) Activate MEMORY INIT by pressing ► cursor key for more than 3 seconds.
- (5) Check the following process for initialization operation.

·Process of Memory Initialize operation.

- A screen is be colored blue when MEMORY INIT start.
- ② A screen is be colored green when MEMORY INIT finish normally.
- ③ A screen is be colored black when MEMORY INIT finish abnormally.
- (6) Do not unplug from AC outlet until this operation is complete and do not perform any key operation either, after this operation each factory setting and all adjust mode data should reset to delivery settings automatically.
- (7) After Memory Initialize, it should be unplug AC cord. Unplug and plug AC cord and then all settings and data are updated.
- (8) When PDP turns ON , it will tune CH03 this is the complete operation of Memory Initialize process.

2.2 FACTORY AND SERVICE ADJUSTMENTS

The adjustment item that is affected by the memory initialize operation is shown below:

* JIG. R/C FACTORY PRESET CODE:92

MEMORY INITIALIZE and FACTORY PRESET

ITEM	MEMORY INITIALIZE	FACTORY RESET	REMARKS
H POSITION ADJUST DATA	INITIALIZE	NOT INITIALIZE	
V POSITION ADJUST DATA	INITIALIZE	NOT INITIALIZE	
SUB CONTRAST ADJUST DATA	INITIALIZE	NOT INITIALIZE	
SETTING DATA FOR EACH DEVICE	INITIALIZE	NOT INITIALIZE	
BBE EFFECT SETTING DATA	INITIALIZE	NOT INITIALIZE	
AUDIO AGC SETTING DATA	INITIALIZE	NOT INITIALIZE	
V CHIP RATING SETTING DATA	INITIALIZE	NOT INITIALIZE	
CCD SETTING DATA	INITIALIZE	NOT INITIALIZE	
FACTORY RESET ITEM	INITIALIZE	INITIALIZE	
WHITE BALANCE	INITIALIZE	NOT INITIALIZE	

Note: Perform pre heat-run for more than 20 min. before adjusting.

3.2 SUB-CONTRAST ADJUSTMENT

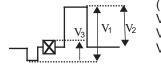
Preparation

Receive Sub-contrast adjustment signal (Fig. 1).

Adjustment

(1) Select 'SUB CONTRAST' of Service Adj. Menu. Press ▶ for over 2 seconds and have it perform automatic adjustment. When it's completed, 'Auto Adjusting' on the screen will be disappeared.

Fig. 1 Full White



(RF Input ANT A)) V_1 =1.0 Vp-p (when V_2 =100IRE with V_3 =7.51IRE)

3.3 BRIGHTNESS CHECK

Preparation

- Start checking 20 minutes or more after the power is turned ON.
- (2) Receive the color bar signal.
- (3) The vertical incident illumination on the screen should be 20 lux or less.
- (4) Picture Format is 16:9 standard mode.
- (5) Select Day mode and reset.

Checking Procedure

(1) Check the brightness as below.

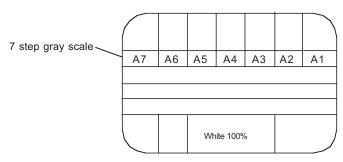
	DW-1
Can be seen at black	A3*
Can be seen slightly from black	A5*

Note: If set black level is NG, readjust item Sub Contrast adj.

Measuring Conditions

- (1) At the signal electric field strength 75± dBμ, the specification mentioned above should be satisfied.
- (2) At the input electric field 46-106dB μ , there should be no abnormality.

^{*} From color bar pattern below.

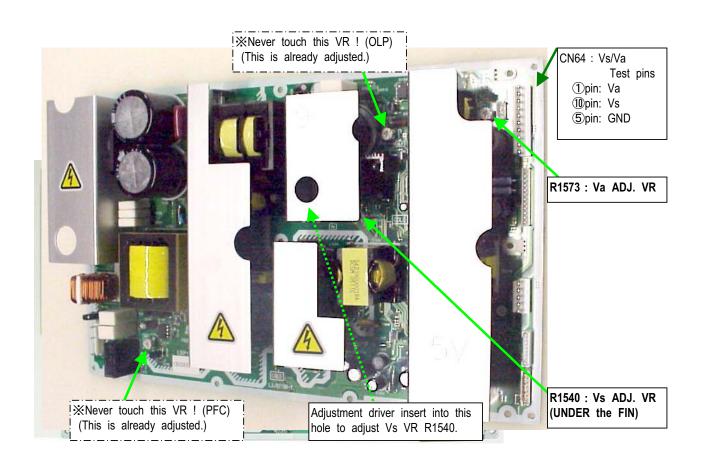


Color Bar Signal

A4 has tolerance. A4 can be between black and Slightly from black.

4. Vs, Va voltage adjustment

	Item Power Unit Vs, Va Adjustment			Adj. point Refer to following	
Adjustment Preparations		Adjustment Procedures		Remarks	
(1) Turn on the set and perform pre-heat run more than 1 min on burn-in screen.		(1)	Turn Vs ADJ to adjust Vs voltage to be within ± 0.1 V of the value specified in the label on the panel.	Permissive level of voltage in sufficient time of heat-run performed is: Vs: within±0.45V Va: within±0.55V	
(2) Receive full black pattern signal (or video silence signal; but the power will be automatically turned off after a few seconds by power save function.)		(2)	Turn Va ADJ to adjust Va voltage to be within ± 0.2 V of the value specified in the label on the panel.		
(3)	(3) Connect voltmeter (which has an error within 0.02V or less) leads to Vs (or Va) and GND test points of the power unit.		(3)	Reconfirm that Vs voltage remains within ± 0.1 V of the specified value. Readjust if it's outside of the margin.	
				Label example <lot>N6 Vs= 80.0V</lot>	Label position (Reference) : Upper left If it's hard to read the voltage value because of the wiring positions, write it down by a marker at visible place in advance.



5 WHITE BALANCE ADJUSTMENTS

General Notes for White Balance

- (1) If the incident illumination is more than 20 lux, change the environment (location, lighting, etc.) and ensure it to be less than 20 lux.
- (2) At least one of the color drive codes must stay at its maximum value, FF_H.

5.1 VIDEO COLOR TEMPERATURE ADJUSTMENT (HIGH)

Preparation 1

- Set the output of signal generator to white raster. (Ratio:100%)
- (2) Component signal 42" 55"
 Video level: 0.700Vp-p 0.280Vp-p
 SYNC: 0.300Vp-p 0.286Vp-p
 Set-up level: 0V 0V
- (3) Input white raster signal into COMPONENT input terminal of the PDP set.
- (4) Set user control to Day mode. (Picture Mode)
- (5) Confirm that the mode is set as "Factory Setting Mode".
- (6) Aspect: ① Video: Expanded

Adjustment

- Perform the following adjustment with the remote control.
- (2) Set the CRT color analyzer (CA-100) at the center of the panel.
- (3) Set color temperature to "HIGH".
- (4) Ensure that Adjustment R/G/B DRIVE (HIGH) are all set as FF.
- (5) After receiving White raster signal, step down the two (or one) among Adjustment R/G/B DRIVE (HIGH) and adjust the value shown in the following:

Specification
Video Color temperature (HIGH)
42"
$$x = 0.258 \pm 0.005$$

 $y = 0.273 \pm 0.005$
(Color temp: 12000K)
55" $x = 0.264 \pm 0.005$
 $y = 0.263 \pm 0.005$
(Color temp: 15000K)

At least one of the data should be FF.

Remarks

- (1) Color temperature should be adjusted under the condition in which the screen is the brightest, thus the initial value for adjustment is set to its maximum.
- (2) Adjustment is made by reducing brightness only. Reduce a bright color for adjustment.
- (3) Video color temperature & Adjustment No. are the same, but addresses in the memory are different, thus there's no problem.

5.2 VIDEO COLOR TEMPERATURE ADJUSTMENT (MEDIUM)

Preparation

(1) Same as "Video Color Temperature adjustment: (HIGH)". For 55" the video level changes to 0.700Vp-p.

Adjustment

- (1) Perform the following adjustment with the remote control.
- (2) Set the CRT color analyzer (CA-100) at the center of the panel.
- (3) Set color temperature to "MEDIUM", using SEL key.
- (4) Ensure that Adjustment R/G/B DRIVE (MEDIUM) are all set as FF.
- (5) After receiving White raster signal, step down the two (or one) among Adjustment R/B/G DRIVE (MEDIUM) and adjust the value shown below.

```
Specification Video Color temperature (MED) 42" x = 0.285 \pm 0.005 y = 0.293 \pm 0.005 (Color temp: 9300K ) 55" x = 0.285 \pm 0.005 y = 0.293 \pm 0.005 (Color temp: 9300K )
```

At least one of the data should be FF.

5.3 VIDEO COLOR TEMPERATURE ADJUSTMENT (STD)

Preparation

(1) Same as "Video Color Temperature adjustment: (HIGH)". For 55" video level changes to 0.700Vp-p.

Adjustment

- Perform the following adjustment with the remote control.
- (2) Set the CRT color analyzer (CA-100) at the center of the panel.
- (3) Set color temperature to "STD".
- (4) Ensure that Adjustment R/G/B DRIVE (STD) are all set as FF.
- (5) After receiving White raster signal, step down the two (or one) among Adjustment R/B/G DRIVE (STD) and adjust the value shown below.

At least one of the data should be FF.

5.4 VIDEO COLOR TEMPERATURE ADJUSTMENT (B/W)

Preparation

(1) Same as "Video Color Temperature adjustment: (HIGH)". For 55" video level changes to 0.700Vp-p.

Adjustment

- (1) Perform the following adjustment with the remote control.
- (2) Set the CRT color analyzer (CA-100) at the center of the panel.
- (3) Ensure that Adjustment R/G/B DRIVE (B/W) are all set as FF.
- (4) After receiving White Raster signal, step down the two (or one) among Adjustment R/B/G DRIVE (B/W) and adjust the value shown below.

```
Specification Video Color temperature (B/W) 42" x = 0.335 \pm 0.005 y = 0.343 \pm 0.005 (Color temp: 5400K ) 55" x = 0.335 \pm 0.005 y = 0.343 \pm 0.005 (Color temp: 5400K )
```

At least one of the data should be FF.

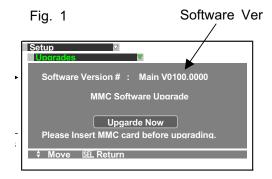
Remarks

(1) Same as "Video Color Temperature adjustment (HIGH)"

6. DIGITAL MAIN CHECK

6.1 SYSTEM SOFTWARE VERSION CHECK

- (1) Press Menu button on the R/C or control panel.
- (2) Enter the SETUP options, and then look for UPGRADES option.
- (3) The Main software version will be display V0100.0000 as shown on Fig. 1.
- (4) If this version needs to be change for a design improvement or failure, please select the Upgrade Now button.



- (5) The upgrading process begin by filling a bar, when finish the message will say, "Upgrade complete ..." when this appear unplug the TV from the AC line outlet to complete the process.
- (6) Now plug again the TV and verify the new software version.
- (7) The Main software version will display the latest version issue by design.

NOTE:

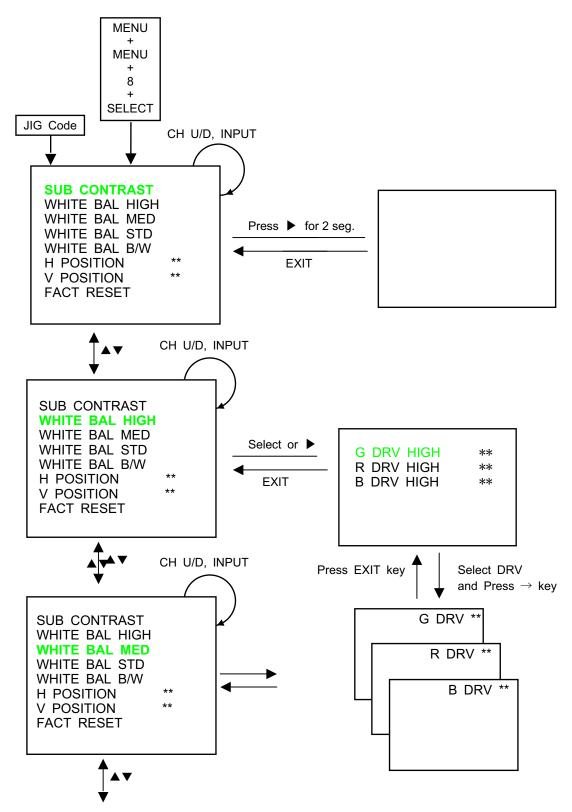
- (1) A Service Bulletin will be sent when a new version is issued officially to the Service Department every time the software version needs to be modified.
- (2) In case that the upgrade fails or when a CARD is inserted with new version and can't upgrade; please perform the FACTORY RESET process to the TV, then try upgrading again.

5.5 WHITE BALANCE ADJUSTMENT OSD FLOW DIAGRAM

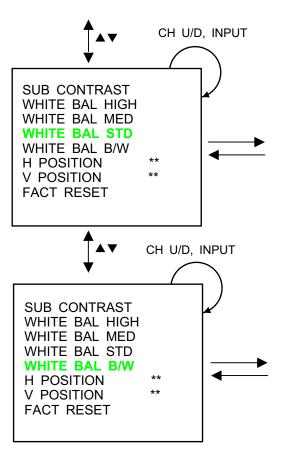
5.5.1 Adjustment OSD Flowchart

(1) Adjust Mode OSD

JIG R/C code:9C or Press [MENU] + [MENU] + [8] + [SELECT] of Control panel.



5.7.1 Adjustment OSD Flowchart (Cont.)



WHITE BALANCE ADJUST MODE

VIDEO SETTINGS

- (1) CONTRAST; MAX
- (2) COLOR, TINT, SHARP, BRIGHT; CENTER
- (3) COLOR TEMP; HIGH

ADJUST

- (1) Press ↑ ↓ to Select the G DRV,R DRV, B DRV.
 (Initial position G/B DRV)
 G/B DRV,B/R DRV select by the DR R and DR BG.
- (2) Press ← →to adjust

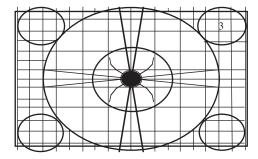
7. SCREEN CHECK

Preparation

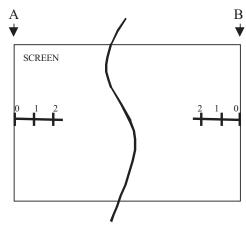
- (1) Set AC120±1V.
- (2) Turn on the power and leave it more than 5 min.
- (3) Receive circle pattern at 4:3 Expanded mode.
- (4) Input 480p and 1080i circle pattern into Component video 3. (ASPECT 16:9 Standard)

Checking

- (1) Receive RF, 480p and 1080i signal, then check the following items 1~4:
 - 1. Check the symmetry of the pattern (right/left).
 - Check the horizontal position and the balance (right/left).
 - 3. Check the symmetry of the pattern (top/bottom).
 - 4. Check the vertical position and the balance (top/bottom).



Remarks



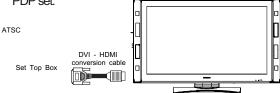
SIGNAL	ASPECT	SPEC(A,B)
Circle pattern	16:9 Standard	0 +/- 0.5

8. HDMI adjustment

a. DVI compatibility check

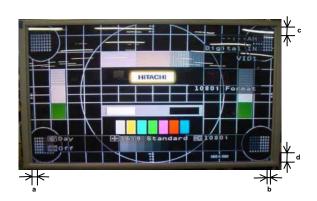
Preparation

- 1. Prepare HDTV signal generator. (Zenith HD-SAT520)
- 2. Select DVI mode then 1080i format
- 3. Connect HDMI-DVI cable to the HDMI input on the PDP set.



- b. DVI/HDCP/Timing (Display Position) Check
 - Set 1080i crosshatch with black background, with a small color bar and small multi-burst. (Confirm that the picture appears as shown below or similar)
 - 2. Press "INFO" button on remote control to confirm that "1080i Format" indication appears.
 - 3. Confirm that Horizontal and Vertical position meet the following spec.

Chassis		DW	′1-U	unit
Screen Size	42"			inch
а				
b				
С				mm
d]



9. FACTORY RESET

After all of the adjustments of main chassis are finished, perform FACTORY RESET.

- (1) Enter Adjustment Mode by the method described in sub-items 1-1 and 1-2 from page 30. ("Adjustment Procedure Start-up").
- (2) From the first menu in Adjustment Mode, select FACT RESET adjustment code.
- (3) Activate FACT RESET by pressing "Right" cursor key once.
- (4) Other procedure to acces the FACTORY RESET is by sending the 92 hex code with a programable R/C.
- (5) The procedure of the FACTORY RESET process is the following and the DATA table is shown next.

·Process of FACTORY RESET operation.

- A screen is colored magenta when FACTORY RESET start.
- ② A screen is colored **green** when FACTORY RESET finish normally.
- (3) A screen is colored **black** when FACTORY RESET finish abnormally.
- (6) After FACTORY RESET, it should be unplug AC cord. Unplug and plug AC cord and then all settings and data are updated.
- (7) When PDP turns ON , it will tune CH03 this is the complete operation of FACTORY RESET process.

9. DATA TABLE OF SETTING FOR DELIVERY

USER Control Initialization Settings for delivery (FACTORY RESET)

Function	Initial Data	Condition	DW1-U	
Input Mode	Cable		X	
Channel	03-1ch		X	
Favorite Channels	Not Registered		X	
PIP On/Off	Off		X	
PIP Mode	SPLIT		X	
POP Position	Middle Right		X	
PIP Position	Bottom Right		X	
Freeze Mode	Main Freeze (1pix)		X	
Master Volume	20 Step		X	
Video				
Picture Mode	Day		X	
Contrast	100%		X	
Brightness	50%		X	
Color	50%		X	
Tint	CENTER		X	
Sharpness	50%		X	
Color Temperature	High		Х	
Black Enhancement	Middle		X	
Edge Enhancement	High		X	
Noise Reduction	Off		X	
Aspect	4:3 Expanded		Х	
Auto Aspect	Off		X	
Vertical Position	0		X	
Black Side Panel	Off		X	

Audio				
Treble	50%		Х	
Bass	50%		Х	
Balance	CENT		Х	
SRS	Off		X	
BBE	Hard		X	
Audio Source	Stereo	Analog Broadcast	X	
Internal Speakers	On		Х	
Auto Noise Cancel	Off	Analog Broadcast	X	
Perfect Volume	Off		X	
Loudness	Off		X	
DTV Language	1 (English)	DTV	Х	
Digital Output	Dolby Digital	DTV	X	
DRC	On	DTV	X	·

9. SETTING for Delivery (continued)

	Function	Initial Data	Condition	DW1-U
TV	Guide On Screen			·
	TV Guide On Screen	-	Analog Broadcast /DTV	-
Cha	annel Manager			
	Signal Meter	-	DTV	Х
	Auto Channel Scan			Х
	Cable	-		Х
	Cable Source	CATV1		X
	Air	-		X
	Channel List			X
	FAV	Not set		X
	CH#	Registered CH		X
	Scan	On		X
	Lock	Off		X
	ID	-		Х
Loc				
	Change Access Code	"0000","7777"		Х
	Engage Lock	1 0000 ,		
	Set Channel Lock	Not set		Х
	Set Front Panel Lock	Not set		X
	Movie Rating	Not set		X
	TV Rating	Not set		X
	Canadian Rating (Eng.)	Not set		X
	Canadian Rating (Frn.)	Not set		X
_	ers	1.101.001		
	Set the Clock			
	Time Zone	PST		Х
	Daylight Savings	Off		X
	Time	Not Registered		X
	Date	2005 01 01		X
	Set Sleep Timer	Not set		X
	Set Day/Night Timer	1	l	l
	Activate	Not set		Х
	Day Start	Not set		X
	Day End	Not set		X
	Set Event Timer	Not set		X

9. SETTING for Delivery (continued)

Function	Initial Data	Condition	DW1-U
etup			
Magic Focus Tune Up			
	Auto		X
/117Point Manual			
Ochedale	Not sot		X
(At turn off, after 00 days.)			
Menu Preference			
Menu Language	English		Х
Menu Background	Shaded		Х
Set The Inputs			
Input1 Rename	None		Х
Input2 Rename	None		Х
Input3 Rename	None		Х
Input4 Rename	None		Х
Input4 Auto Link	Off		Х
(Auto/Remote/Off)			
Input5 Rename	None		Х
Set the AV Net	(Wizard will be		-
	starting.)		
Set Closed Caption	<u>. </u>	•	
Caption Display	Auto		Х
Mode	Captions		Х
(Captions/Text)			
Channel (1/2/3/4)	Channel 1		Х
Digital Captions		•	
Service (1/2/3/4/5/6)	1		Х
Language	(English)		Х
Font	Default		Х
(Default, 1/2/3/4/5/6/7/8)			
Size	Standard		Х
(Small/Standard/Large)			
Style	Standard		Х
(Standard/High Visibility)			
Set Monitor Out			
Video Out	Monitor		Х
(TV Tuner Out / Monitor)			
Audio Out	Fixed		X
(Fixed/Variable)			
Cable CARD Info	Not set		X
Upgrades	-		Х
Quick Start Up	Not set		Х
gital Input - HDMI	Not detected		1

10. I²C Adjustment Parameter List

1st page (1/2)

Adjustment	Adjustment Item	Adjustment	Initial Dat	a(HEX)
Mode OSD		Range(HEX)	DW1-U	
SERVICE	SERVICE		OFF	
TA1360 (88H)				
SUB BRIGHT	[ISF Mode]	00∼FF	3F	
	Sub Brightness			
WHITE BAL	White Balance Mode (TA1360 88H)			
G DRIVE(HIGH)	[ISF Mode]	00∼7F	3F	
	Color Temperature: High			
R DRIVE(HIGH)	Green/Red Drive Gain Adjustment		3F	
R CUTOFF(HIGH)	[ISF Mode]	00∼FF	7F	
	Color Temperature: High			
G CUTOFF(HIGH)	Red/Green/Blue Cutoff Adjustment		7F	
B CUTOFF(HIGH)			7F	
G DRIVE(MED)	[ISF Mode]	00∼7F	4A	
	Color Temperature: Medium			
R DRIVE(MED)	Green/Red Drive Gain Adjustment		4E	
R CUTOFF(MED)	[ISF Mode]	00∼FF	7F	
	Color Temperature: Medium			
G CUTOFF(MED)	Red/Green/Blue Cutoff Adjustment		7F	
B CUTOFF(MED)			7F	
G DRIVE(STD)	[ISF Mode]	00∼7F	52	
	Color Temperature: Standard			
R DRIVE(STD)	Green/Red Drive Gain Adjustment		56	
R CUTOFF(STD)	[ISF Mode]	00∼FF	7F	
	Color Temperature: Standard			
G CUTOFF(STD)	Red/Green/Blue Cutoff Adjustment		7F	
B CUTOFF(STD)			7F	

1st page (2/2)

Adjustment	Adjustment Item	Adjustment	Initial Da	ata(HEX)
Mode OSD		Range(HEX)	DW1-U	
WHITE BAL	White Balance Mode (TA1360 88H)			
G DRIVE (B/W)	[ISF Mode]	00∼7F	58	
	Color Temperature: Black/White			
R DRIVE (B/W)	Green/Red Drive Gain Adjustment		64	
R CUTOFF (B/W)	[ISF Mode]	00∼FF	7F	
	Color Temperature: Black/White			
G CUTOFF (B/W)	Red/Green/Blue Cutoff Adjustment		7F	
B CUTOFF (B/W)			7F	
H POSITION	[ISF Mode]	00∼7F	42	
	Horizontal Position Adjustment			
	00: .10%~ 7F: +10%			
SEINE	•			
V POSITION	[ISF Mode]	00∼8FCh	465h	
	Vertical Position Adjustment			
FACTORY RESET	FACTORY RESET	_	_	
TAOTORT REGET	THOTON REGET			

2nd page (1/2)

Adjustment	Adjustment Item	Adjustment	Initial Data(HEX)
Mode OSD		Range(HEX)	DW1-U
SEINE			
TV_GUiDE	Don't care		
TV_GUiDE	Don't care		
TV_GUIDE	Don't care		
UEI			I
iR_BLASTER			
iR_BLASTER			
TC90103		I	I
H_TiMiNG	VBIDLY: Slicer H Timing Delay (ID1/WSS/CCD/G-Gide)	00~0F	08
V_PHASE	VBIVAD: Slicer V Phase (ID1/WSS/CCD/G-Gide)	00~07	04
CCD_READ_oUT	CCDON: CCD Slice Read Output	00~01	01
CCD_SLiCE_CoNT	CSLICES: CCD Slice Control	00~01	00
CCD_SLiCE_LEVEL	CSLICEL: CCD Slice Level	00~03	00
CCD_SB_DET	CSTMOD: CCD SB Detect	00~01	00
CCD_FiELD_SEL	CCDMOD: CCD Field Select	00~03	02
iD1_READ_oUT	ID1ON: ID1 Slice Read Output	00~01	01
iD1_SLiCE_CoNT	ISLICES: ID1 Slice Control	00~01	00
iD1_SLiCE_LEVEL	ISLICEL: ID1 Slice Level	00~03	00
iD1_AMP	IRWIDON: ID1 Amplitude Detect	00~01	00
iD1_PHASE_SEL	IEDGES: ID1 Phase Select	00~01	00
iD1_PHASE_WiDTH	IRTIMS: ID1 Detection Phase Width	00~01	00

2nd page (2/2)

Adjustment	Adjustment Item	Adjustment	Initial Data(HEX)
Mode OSD		Range(HEX)	DW1-U
TC90103			
G_READ_oUT	GGSON: Guide Slice Read Output	00~01	01
G_DETECT	GGSJDG: Guide Detection Sensitivity	00~01	01
G_SLiCE_LEVEL	GGSLV: Guide Slice Level	00~03	00
CLoCK_RUN_iN	GGPKDET: Guide Clock Run In Detect	00~01	00
READ_DATA_oRDER	SLDSLT: Guide Read Out order	00~01	00
ADD_DATA	GGSIGON: Guide Add Data Function	00~01	00
LiNE_10_25	Line 10~25	0000~FFFF	0000
Sub Micro			
VBi_SLiCER_S	Sub VBI (CCD/V Chip) Adjustment		
SAMPLING			
POLLING			
START			
TiMEoUT			
STATUS			
Seine/Sub Micro			I
CLoCK_TEST			
AFC_TEST			
MAINTENANCE			
MEMoRY_iNiTiALiZE			

Seine (1/4)

Adjustment	Adjustment Item	Adjustment	Initial Data(HEX)
Mode OSD		Range(HEX)	DW1-U
SEINE			
001	Capture Picture Sync Delay	00~01	00
	00h: Delay Adjustment, 1: Through		
002	Active area top field V sync phase	00~01	00
	00h: odd field, 01h: even field		
003	Vertical Delay	000~7FF	00
004	Horizontal Delay	000∼FFF	00
005	Picture Horizontal Sync Up Position	0000~1130	898
006	Picture Horizontal Sync Down Position	0000~1130	898
007	Picture Horizontal Blanking Up Position	0000~1130	898
008	Picture Horizontal Blanking Down Position	0000~1130	898
009	Picture Vertical Blanking Up Position	000∼8FC	465
010	Picture Vertical Blanking Down Position	000∼8FC	465
011	Picture Clamp Horizontal Up Position	0000~1130	898
012	Picture Clamp Horizontal Down Position	0000~1130	898
013	Picture Clamp Vertical Position Mask Start Position	000~8FC	465
014	Picture Clamp Vertical Position Mack End Position	000∼8FC	465
015	Picture Black Level Distinction Horizontal Up Position	0000~1130	898
016	Picture Black Level Distinction Horizontal Down Position	0000~1130	898
017	Picture Black Level Vertical Mask Start Position	000∼8FC	465
018	Picture Black Level Vertical Mask End Position	000~8FC	465
019	U,V Output Gain Mode 00h: SMPTE, 01h: Beta Cam	00~01	00
020	Horizontal Sync Input Delay	00~03	00

Seine (2/4)

Adjustment	Adjustment Item	Adjustment	Initial Data(HEX)
Mode OSD		Range(HEX)	DW1-U
SEINE			
021	Vertical Sync Input Delay	00~03	00
022	Horizontal Filter Switch for Y 00h: through, 01h: 0.25fs	00~01	00
023	Horizontal Filter Switch for U 00h: through, 01h: 0.25fs, 02h: 0.055fs, 03h: 0.037fs	00~03	00
024	Horizontal Filter Switch For V 00h: through, 01h: 0.25fs, 02h: 0.055fs, 03h: 0.037fs	00~03	00
025	Plain Bland Out Color 00h: YUV_BT709, 01h: YUV_BT601	00~01	00
026	Picture Digital Output Select 00h: Normal, 01h: Color Bar	00~01	00
027	Setup 00h: off, 01h: on	00~01	00
028	Noise Reduction Switch for Y 00h: Not Round, 01h: Round NTSC/480i Input only	00~01	01
029	Y Moving Detection Band for Noise Reduction 00h: Narrowband, 01h: Wideband NTSC/480i Input only	00~01	00
030	Y Moving Horizontal Extension for Noise Reduction 00h:OFF, 01h:ON NTSC/480i Input only	00~01	01
031	Y Signal Round Coefficient for Noise Reduction NTSC/480i Input only	00~0D	0A
032	Y Frame Difference Limit for Noise Reduction NTSC/480i Input only	00∼1F	03
033	Color Signal Noise Reduction Switch 00h: Not Round, 01h: Round NTSC/480i Input only	00~01	01
034	Color Moving Detection Band for Noise Reduction 00h: Narrowband, 01h: Wideband NTSC/480i Input only	00~01	00
035	Color Moving Horizontal Extension foe Noise Reduction 00h:OFF, 01h:ON NTSC/480i Input only	00~01	01

Seine (3/4)

Adjustment	Adjustment Item	Adjustment	Initial Data(HEX)
Mode OSD		Range(HEX)	DW1-U
SEINE			
036	Color Signal Round Coefficient for Noise Reduction NTSC/480i Input only	00~0D	0A
037	Color Signal Frame Difference Limit for Noise Reduction NTSC/480i Input only	00∼1F	03
038	Enhance Movement Mode 00h: Enhancer & 2nd V filter OFF 01h: Enhancer ON 02h: 2nd V filter ON 03h: Reserved	00~03	00
039	Enhancer Movement Mode Select 00h: 1H, 01h: 2H	00~01	00
040	Noise Distinction Value	00~10	00
041	Noise Reduction Gain	00~07	00
042	Vertical Enhancer Gain 1/16step 0x00: OFF, 0x20: 2 times	00~20	00
043	Vertical Enhancer Coring Value	00~0F	00
044	Vertical Enhancer Turning Position	00∼FF	00
045	Horizontal Enhancer Gain 1/16step 0x00: OFF, 0x20: 2 倍	00~20	00
046	Horizontal Enhancer Coring Value	00~0F	00
047	Horizontal Enhancer Turning Position	00∼FF	00
048	Horizontal Enhancer Coefficient Z6	00∼FF	00
049	Horizontal Enhancer Coefficient Z5	00∼FF	00
050	Horizontal Enhancer Coefficient Z4	00∼FF	00
051	Horizontal Enhancer Coefficient Z3	00~FF	00
052	Horizontal Enhancer Coefficient Z2	00~FF	00
053	Horizontal Enhancer Coefficient Z1	00∼FF	00
054	Horizontal Enhancer Coefficient Z0	00∼FF	00

Seine (4/4)

Adjustment			Adjustment	Initial D	ata(HEX)
Mode OSD			Range(HEX)	DW1-U	
SEINE					
055	Odd/Even Field Horizontal Active Picture Data Start Point	ANT/NTSC	000~6B4	0F8	
056		480i_YPbPr	000∼35A	0F4	
057		480i_HDMI	000∼6B4	000	
058		480p_YPbPr	000∼35A	078	
059		480p_HDMI	000∼35A	000	
060		1080i_YPbPr	000~898	0E0	
061		1080i_HDMI	000~898	000	
062		720p_YPbPr	000~672	120	
063		720p_HDMI	000~672	000	
064		VGA_HDMI	000∼35A	000	
065	S/N Detection Setting (Receiving Mode Border Line Setting)	Mode 1-2	00∼FF	19	
066	(toosying mode border Line octally)	Mode 2-3	00∼FF	32	
067		Mode 3-4	00∼FF	4B	
068	_	Mode 4-5	00∼FF	64	

TA1360 (1/5)

Adjustment	_		Adjustment	Initial Data(HEX
Mode OSD			Range(HEX)	DW1-U
TA1360	T			I
001	[ISF Mode]		00~03	00
	RGB Output Mode Switch			
	00: Normal, 01: R only, 02: G on			
002	[ISF Mode]	Black Enhancement	00∼7F	3F
000	Brightness Offset 1	Middle	00 75	05
003		Black Enhancement	00∼7F	3F
004	\dashv	Low	00 75	0.5
004		Black Enhancement Off	00∼7F	3F
005	[ISF Mode]	480i/480p/1080i/720p	00∼7F	3F
003	Brightness Offset 2		00/3/1	31-
006	[ISF Mode]		00∼1F	12
000	Sub Contrast		00 11	12
	00h: -3.4 dB ~ 1Fh: +2.6 dB			
007	[ISF Mode]	ANT/NTSC	00∼7F	46
001	Color (Center Adjustment)	7		
800	00h: -20 dB ~ 7Fh: +4.5 dB	480i/480p	00∼7F	4B
		•		
009		1080i/720p	00∼7F	4C
		· ·		
010	[ISF Mode]	Color Temperature	00∼3F	1F
	Color Offset	Medium		
011		Color Temperature	00∼3F	1F
		Standard		
012		Color Temperature	00∼3F	1F
		B/W		
013	[ISF Mode]	ANT/NTSC	00∼7F	41
	Tint (Center Adjustment)			
014	00h: -32degree	480i/480p	00~7F	3F
0.15	~ 7Fh: +32degree	4000:/700	00 75	0.5
015		1080i/720p	00∼7F	3F
016	IICE Model	Color Tomporatura	00∼3F	15
016	[ISF Mode] Tint Offset	Color Temperature Medium	00∼3F	1F
017	Time Onser	Color Temperature	00∼3F	1F
017		Standard		"
018	_	Color Temperature	00∼3F	1F
0.0		B/W		"
019	[ISF Mode]	ANT/NTSC	00∼7F	20
	Sharpness(Center Adjustment)			
020	10 dB ~ +15 dB	480i/480p	00~7F	20
021		1080i/720p	00∼7F	1F

TA1360 (2/5)

Adjustment	Adjus	· 1		Adjustment	Initial Data(H	IEX)
Mode OSD				Range(HEX)	DW1-U	
TA1360						
022	[ISF Mode] R-Y/B-Y Phase		ANT/NTSC	00~0F	00	
023	00h: 90 degree, 0Fh: 109 degree		480i/480p	00~0F	00	
024			1080i/720p	00~0F	00	
025	[ISF Mode] R-Y/B-Y Gain	ANT/NTSC	Color Temp. High	00~0F	09	
026	00h: 0.56 ~ 0Fh: 0.86		Color Temp. Medium	00∼0F	07	
027			Color Temp. Standard	00~0F	05	
028			Color Temp. B/W	00~0F	02	
029		480i/480p	Color Temp. High	00~0F	0A	
030			Color Temp. Medium	00~0F	08	
031			Color Temp. Standard	00~0F	06	
032			Color Temp. B/W	00~0F	03	
033		1080i/720p	Color Temp. High	00~0F	07	
034			Color Temp. Medium	00~0F	05	
035			Color Temp. Standard	00~0F	03	
036			Color Temp. B/W	00∼0F	02	
037	[ISF Mode] G-Y/B-Y Phase		ANT/NTSC	00∼0F	02	
038	00h: 232.5 degree, 0Fh: 255 degree		480i/480p	00~0F	02	
039			1080i/720p	00~0F	03	

TA1360 (3/5)

Adjustment	Ac	ljustment Itei	m	Adjustment	Initial Data(HEX)
Mode OSD				Range(HEX)	DW1-U
TA1360			Г		
040	[ISF Mode] G-Y/B-Y Gain	ANT/NTSC	High	00~0F	01
041	00h: 0.3 ~ 0Fh: 0.45		Medium	00~0F	02
042			Standard	00∼0F	03
043			B/W	00~0F	04
044		480i/480p	High	00∼0F	02
045			Medium	00∼0F	03
046			Standard	00∼0F	04
047			B/W	00∼0F	05
048		1080i/720p	High	00~0F	00
049			Medium	00∼0F	01
050			Standard	00∼0F	02
051			B/W	00~0F	03
052	[ISF Mode] BLACK STRETCH POI	NT	Black Enhancement High	00~07	05
053			Black Enhancement Middle	00~07	03
054			Black Enhancement Low	00~07	01
055	[ISF Mode] DC Restoration Point 00h: $0\% \sim 07h$: 47%			00~07	00
056	[ISF Mode] DC Restoration Rate 00h: 100% ~ 07h: 135	5%		00~07	00
057	[ISF Mode] DC Restoration Limit P			00~03	00
058	[ISF Mode]	[ISF Mode] Dynamic ABL Detection Point		00~03	03
059	[ISF Mode] Dynamic ABL Gain			00~03	00

TA1360 (4/5)

Adjustment	-		Adjustment	Initial Da	ta(HEX)
Mode OSD			Range(HEX)	DW1-U	
TA1360					
060	Sand castle Pulse Switch		00~01	01	
	00h: Internal, 01h: External Input				
061	Aperture Control Peak f0	ANT/NTSC	00~03	01	
	00h: 15 MHz, 01h: 8.8 MHz ,				
062	02h: 7.5 MHz, 03h: 5 MHz	480i/480p	00~03	01	
000	_	4000:/700=	0000	00	
063		1080i/720p	00~03	00	
064	Color Limiter Level Switch		00~01	01	
	00h: 1.65 Vp-p, 01h: 2 Vp-p				
065	Color SRT Gain		00~03	00	
	00h: min ∼ 03h: max				
066	Color SRT Frequency		00~01	01	
	00h: 4.3 MHz ~ 01h: 5.8 MHz				
067	VM Phase	ANT/NTSC	00~07	06	
	00h: -37.5 ns, 05h: Normal,	480i/480p			
068	07h: +15 ns	1080i/720p	00~07	04	
069	Color Detail Enhancer		00~03	00	
	00h: min ∼ 03h: max				
070	DCU RGB Brightness		00∼7F	3F	
	00h: -20 IRE ~ 7Fh: +20 IRE				
071	DCU RGB Contrast		00∼7F	6D	
	00h: -17 dB ~ 7Fh: 0 dB				
072	DC Restoration Ratio Switch		00~01	00	
	00h: 100% less, 01h: 100% over				
073	Color γ Correction Point		00~03	00	
	00h: OFF, 01h: 0.23 Vp-p,				
	02h: 0.37 Vp-p, 03h: 0.52 Vp-p				
074	Component Dynamic Y/C Correction Selection	ct	00~03	00	
	00h: OFF, 01h: min, 02h: mid, 03h: max				
075	APL / Black Stretch Start Point		00~03	00	
	00h: 0 IRE ~ 03h: 23 IRE				

TA1360 (5/5)

Adjustment	Adjustment Item	Adjustment	Initial Data(HEX)	
Mode OSD		Range(HEX)	DW1-U	
TA1360		·	·	
076	Black Level Auto Correction Switch	00~01	01	
	D2 00h: OFF, 01h: ON			
077	Black Detection Level Switch	00~01	01	
	D1 00h: 3 IRE, 01h: 0 IRE			
078	Black Stretch Area Correction Switch	00~01	01	
	D0 00h: ON, 01h: OFF			
079	SRT (Super Real Transient) Gain	00∼1F	10	
	00h: MIN ~ 1Fh: MAX			
080	White Character Correction Amplitude	00~07	07	
	00h: min ∼ 07h: max			
081	ABL Detection Point	00~07	07	
	00h: MIN ~ 07h: MAX			
082	ABL Gain	00~07	00	
	00h: MIN ~ 07h: MAX			
083	Dynamic Y Gamma Gain vs. Dark Area	00~03	00	
	00h: OFF ~ 07h: MAX(+6 dB)			
084	Dynamic Y Gamma Gain vs. Bright Area	00~07	00	
	00h: OFF ∼ 07h: max			
085	Static Y Gamma Black Gain	00~07	00	
	00h: OFF, 01h: MIN(0 DB) ~ 07h: MAX(+6 DB)			
086	Static Y Gamma Bright Gain	00~03	03	
	00h: OFF, 01h: MIN(0 DB) ~ 03h: MAX(-6 DB)			
087	Y Gamma Switch	00~01	00	
	00h: OFF, 01h: ON			
088	Y Detail Control	00∼0F	07	
	00h: MIN(Trap) ~ 0Fh: MAX(+6 dB)			
089	Y Group Delay Control	00∼0F	09	
	00h: MIN(Trap) ~ 0Fh: MAX(+6 dB)			
090	White Peak Blue Point	00~07	00	
	00h: 55 IRE ~ 07h: 105 IRE			
091	White Peak Blue Gain	00~07	00	
	00h: min(+2 dB) ~ 07h: max(+9.5 dB)			
092	High Bright Color Switch	00~01	00	
	00h: OFF, 01h: ON			
093	White Peak Suppressor Level	00~01	01	
	00h: 110 IRE, 01h: 130 IRE			
094	Blue Stretch Gamma Correction	00~01	00	
	00h: OFF, 01h: ON			
095	Green Stretch	00~03	00	
	00h: OFF ~ 03h: MAX			
096	Blue Stretch Gain	00~03	00	
	00h: OFF ~ 03h: MAX(+4 dB)			
097	Blue Stretch Point	00~03	00	
	00h: MIN(30 IRE)∼ 03h: MAX(45 IRE)			
098	Black Stretch Characteristic Switch 1	00~01	00	
	(OFF~MAX)			
099	Black Stretch Characteristic Switch 2	00~01	00	
000	(OFF~MAX)			

TC90103 (1/12)

Adjustment	Adjustment Item		Adjustment	Initial Dat	a(HEX)
Mode OSD			Range(HEX)	DW1-U	
TC90103	ANT/NTSC/480i		·		
001	3D Motion Detection Select		00~03	03	
	00h: Compulsion Standard,				
	01h: Compulsion Still Picture,				
	02h:MOVE, 03h:MANU				
002	YES Mode		00~03	03	
	00h:Mode1, 01h:3Line+3DNR,				
	02h:BPF+3DNR, 03h:Mode2				
003	3D Y Noise Reduction Limiter Level		00~07	06	
	00h:Level Small~07h:Level Big				
004	3D Color Noise Reduction Round Coefficie	nt	00~03	02	
	00h:×1, 01h:×1/2, 02h:×3/4, 03h:OFF				
005	3D Y Noise Reduction Gain		00~07 00		
	00h:OFF∼07h:×0.875				
006	3D Color Noise Reduction Limiter Level		00~07	05	
	00h:Level Small~07h:Level Large				
007	3D Color Round Coefficient	00~03 01		01	
	00h:×1, 01h:×1/2, 02h:×3/4h, 03h:OFF				
008	3D Color Noise Reduction Gain		00~07 00		
	00h:OFF∼07h:×0.875				
009	Vertical Enhancer Gain		00~03	03	
	00h:OFF, 01h:×1/8, 02h:×1/4, 03h:×1/2				
010	Vertical Enhancer Turning Point		00~03	01	
	00h:6 IRE, 01h:9 IRE, 02h:13 IRE, 03h:1	16 IRE			
011	Vertical Enhancer Coring		00~03	01	
	00h:OFF, 01h:0.8 IRE, 02h:1.6IRE, 03h:2	.3 IRE			
012	Sharpness f0		00~01	00	
	00h:4.2MHz, 01h:3.3MHz				
013	Pre-Enhancer		00~01	00	
	00h:OFF, 01h:ON				
014	Sharpness Gain	ANT/NTSC	00∼0F	01	
	00h: OFF,				
015	01h: 1.02dB, 02h: 1.94dB,	Y/C/480i	00∼0F	01	
	03h: 2.77dB, 04h: 3.52dB,				
	05h: 4.22dB, 06h: 4.86dB,				
	07h: 5.46dB, 08h: -6.02dB,				
	09h: -5.00dB, 0Ah: -4.08dB,				
	0Bh: -3.25dB, 0Ch: 2.50dB,				
	0Dh: -1.80dB, 0Eh: -1.16dB,				
	0Fh: -0.56 dB	1			

TC90103 (2/12)

C90103 (2/1	Ť	A.P	Initial Data/UEV	
Adjustment	Adjustment Item		Adjustment	Initial Data(HEX)
Mode OSD			Range(HEX)	DW1-U
TC90103	ANT/NTSC/480i		1	
016	Sharpness/Noise Cancel Coring 00h:0.8 IRE, 01h:1.6 IRE,	ANT/NTSC	00~03	01
017	02h:3.2 IER, 03h:6.4 IRE	Y/C/480i	00~03	01
018	Noise Cancel Gain 00h:OFF, 01h:×1/4, 0h2:×1/2, 03h:×1		00~03	00
019	LTI Gain (LTI = Luminance Transient Improvement) 00h:OFF, 01h:×1/8, 02h:×1/4, 03h:×1/2		00~03	03
020	LTI Coring Level (LTI = Luminance Transient Improvement) 00h:0.8 IRE, 01h:1.6 IRE, 02h:3.2 IER, 03h:6.4 IRE		00~03	00
021	Chrominance Delay 00h:-296ns∼0Fh:259ns	ANT	00~0F	08
022		NTSC/480i	00~0F	08
023		Y/C	00~0F	08
024	CTI Gain (CTI = Chrominance Transient Improvement) 00h:OFF, 01h:×1/8, 02h:×1/4, 03h:×1/2		00~03	01
025	CTI Coring Level (CTI = Chrominance Transient Improvement) 00:0.2 IRE, 01:0.8 IRE, 02:1.6 IRE, 03:3.2	RE	00~03	00
026	LTI f0 (LTI = Luminance Transient Improvement) 00h:3.2MHz, 01h:2.2MHz		00~01	01
027	CTI f0 (CTI = Chrominance Transient Improvement) 00h:1.7MHz, 01h:3.4MHz		00~01	01
028	Contrast Control 00h:×1/2~40h:×1~FFh:×2.4		00∼FF	45
029	Brightness (Y Output Offset) 80h:-128Lsbh~00h:OFF~7Fh:+127(10Bit)		00∼FF	7D
030	Cr Output Gain 08h:×0.5 ∼ 00:×1 ∼ 07:×1.4		00~0F	08
031	Cb Output Gain 08h:×0.5 ∼ 00h:×1 ∼ 07h:×1.4		00~0F	08
032	Cr Output Offset 08h:-8LSB ∼ 00h:0 ∼ 07h:+7LSB(10Bit)		00~0F	08
033	Cb Output Offset 08h:-8LSB ∼ 00h:0 ∼ 07h:+7LSB(10Bit)		00~0F	08
034	Phase Control 80h:-45° ∼ 00h:0° ∼ 7Fh: +43.6°		00∼7F	40
035	Cb Delay 00h:Cb Preceding, 01h:Cr Delay		00~01	00

TC90103 (3/12)

C90103 (3/12) Adjustment Adjustment Item Adjustment Initi				
Adjustment	Adjustment Item	Adjustment Item		Initial Data(HEX)
Mode OSD			Range(HEX)	DW1-U
TC90103	ANT/NTSC/480i			
036	Demodulation Angle		00∼3F	00
	00h: 0° ∼ 3Fh:+45°			
037	Color Killer Level		00~07	00
	00h:-40dB ∼ 07h:-30dB			
038	ACC Level (ACC = Auto Color Level)		00∼0F	08
	00h: Min ~ 0Fh: Max [08h: Center]			
039	ACK Hysteresis (ACK = Auto Color Kill	er)	00~01	01
	00h: Small, 01h: Large			
040	2'nd BPF/TRAP on/off		00~01	00
	00h:ON, 01h:OFF			
041	2'nd BPF/TRAP bpf/trap		00~01	00
	00h:Trap, 01h:BPF			
042	TRAP1		00~01	01
	00h:ON, 01h:OFF			
043	TRAP2		00~01 01	
	00h:ON, 01h:OFF			
044	Take Off Filter	ANT (RF Input)	00~07	07
	00h:OFF, 01h:BPF ON,			
045	02h:Min ∼ 07h:Max	NTSC/480i	00~07	01
046	Y Digital Clamp	<u> </u>	00~01	00
	00h:OFF, 01h:ON			
047	BSRC Filter		00~01	01
	00h:ON, 01h:OFF			
048	Chrominance Digital Clamp		00~01	01
	00h:OFF, 01h:ON			
049	Y Noise Cancel Limiter		00~03	00
	00h:4lsb, 01h:8lsb, 02h:16lsb, 03h:32l	sb		
050	Y Noise Cancel Gain		00~03	01
	00h:OFF, 01h: \times 1, 02h: \times 1.5, 03h: \times 2			
051	Chrominance Noise Cancel Limiter		00~03	00
	00h:1lsb, 01h:2lsb, 02h:4lsb, 03h:8lsb			
052	C Noise Cancel Gain		00~03	00
	00h:OFF, 01h: \times 1, 02h: \times 1.5, 03h: \times 2			
053	Horizontal Dot Obstruction Reduction		00~03	03
	00h:OFF, 01h:×0.16, 02h:×0.17, 03h:×	0.18		
054	COMB+		00~01	00
	00h:OFF, 01h:ON			
055	1 Line Dot Improvement		00~01	01
	00h:OFF, 01h:ON			
056	Vertical Y Noise Cancel Limiter		00~01	00
	00h:8lsb, 01h:16lsb		<u> </u>	
057	Vertical Y Noise Cancel Gain		00~01	00
	00h:×1, 01h:×2			

TC90103 (4/12)

Adjustment	Adjustment Item	Adjustment	Initial Data(HEX)
Mode OSD		Range(HEX)	DW1-U
TC90103	ANT/NTSC/480i		•
058	Vertical Y ON	00~01	00
	00h:OFF, 01h:ON		
059	C NY Limiter	00~01	00
	00h:16lsb, 01h:24lsb		
060	C NC Gain	00~01	00
061	C-NC ON	00~01	00
	00h:OFF, 01h:ON		
062	IIR Filter	00~03	03
	00h:OFF, 01h:ON		
063	Output Peak Limiter	00~01	00
	00h:OFF, 01h:ON		
064	AFC Integrate Gain Switch	00∼0F	03
065	AFC Proportional Gain Switch	00~0F	0B
066	Linear Gain Switch at Phase Large Error	00~0F	08
067	No Linear Area 2nd Gain Switch	00~0F	07
068	Linear Gain Switch at Phase Small Error	00~0F	02
069	Integrate Value Reset ON at Limit 00h:OFF, 01h:ON	00~01	00
070	Linear Area Width Setting for NTSC/480i	00~07	05
071	Sync Separation Input Select 00h:Internal, 01h:CsyncH, 02h:CsyncL, 03h:VsyncH, 04h:Internal(OFF_SET), 07h:Free run	00~07	00
072	AFC Integrate Relay 00h:OFF, 01h:ON	00~01	01
073	Phase Error Gain Up 00h:ON, 01h:00×2, 02h:00×4, 03h:00×8	00~03	03
074	Phase Error Maximum Linear Area Width Setting 00h:OFF, 01h:LRW0+16'h5000, 02h:LRW0+16'h6000, 03h:LRW0+16'h7000	00~03	03
075	Horizontal Standard Phase Adjustment 20h:-4.7µs ~ 00h:±0 ~ 1Fh:+4.59µs (1/6.75MHz_Step)	00∼3F	20
076	Horizontal Separation Level 00h:30%, 01h:40%	00~01	00
077	Half Horizontal Killer 00h:OFF, 01h:ON	00~01	01

TC90103 (5/12)

Adjustment	Adjustment Item	Adjustment	Initial Data(HEX)
Mode OSD		Range(HEX)	DW1-U
TC90103	ANT/NTSC/480i		
078	Vertical Standard Setting	00~07	04
	04h :+4H \sim 00h:Center \sim 03h: -3H		
079	External VD Phase Setting	00~07	04
	00h:Center, 01h:+1.99us, 02h:+3.97us,		
	03h:+5.96us, 04h:-7.94us, 05h:-5.96us,		
	06h:-3.97us, 07h:-1.99us		
080	VD Output Control	00~03	00
	00h:Always Input Sync		
	01h:DET50		
	02h/03h: TVM[1]		
081	Field Distinction Horizontal Phase Setting	00~07	04
	00h:-5.7us, 01h:-8.2us, 02h:-10.7us, 03h:-13.2us,		
	04h:-15.7us, 05h:-18.4us, 06h:-20.9us, 07h:-23.2us		
082	Vertical Counter Tolerance	00~01	00
	00h:-H/8∼+H/4, 01h:±H/8		
083	Vertical Counter Limiter	00~01	00
	00h:OFF, 01h:ON		
084	Vertical Jitter Remove	00~01	00
	00h:OFF, 01h:ON		
085	Field Distinction at Non Standard	00~01	00
	00h:Reverse at Every 1V, 01h Low		
086	Integrate Center Level Setting for Vertical Separation	00~01	01
	00h:5/16, 01h:1/2		
087	Y Horizontal Edge Detection Level	00~03	01
	00h:OFF, 01h:6 IRE, 02h:3 IRE, 03h:1.5 IRE		
088	1 Field Y Detection Slope, Color Motion Picture	00~03	02
	Edge		
	00h:1/2 ~ 03h:∞[02]		
089	1 Field Y Detection Offset, Color Motion Picture	00∼0F	0A
	Edge		
	00h:Still Picture ~0Fh:Motion Picture [0C: Center]		
090	Y Vertical Edge Detection Level	00~03	01
	00h:OFF, 01h:12 IRE, 02h:5 IRE, 03h:2 IRE		
091	1 Field Y Detection Slope, Color Motion Picture	00~03	02
	Smooth		
	00h:1/2 ~ 03h:∞[02]		
092	1 Field Y Detection Offset, Color Motion Picture	00∼0F	0C
	Edge		
	00h:Still Picture \sim 0Fh:Motion Picture [0C: Center]		
093	Color Motion Picture Distinction Standard	00~03	01
	00h:8%, 01h:16%, 02h:24%, 03h:32%		
094	1 Field Y Detection Slope, Color Still Picture Edge	00~03	01
	00h:1/2 ~ 03h:∞[02]		
095	1 Field Y Detection Offset, Color Still Picture Edge	00∼0F	00
	00h:Still Picture ~ 0Fh:Motion Picture [0C: Center]		

TC90103 (6/12)

Adjustment	Adjustment Item	Adjustment	Initial Data(HEX)
Mode OSD		Range(HEX)	DW1-U
TC90103	ANT/NTSC/480i		
096	Y Motion Picture Distinction Standard	00~03	01
	00h:8%, 01h:16%, 02h:24%, 03h:32%		
097	1 Field Y Detection Slope, Color Still Picture	00~03	02
	Smooth		
	00h:1/2 ~ 03h:∞[02]		
098	1 Field Y Detection Offset, Color Still Picture	00∼0F	08
	Smooth		
	00h:Still Picture \sim 0Fh:Motion Picture [0C: Center]		
099	2 Field Y Motion Detection Enhancement	00~01	00
	00h:ON, 01h:OFF		
100	2 Field Color Motion Detection Enhancement	00~01	00
	00h:ON, 01h:OFF		
101	1 Field Y Detection Slope, Y Motion Picture Edge	00~03	02
	00h:ON, 01h:OFF		
102	1 Field Y Detection Offset, Y Motion Picture Edge	00∼0F	0D
	00h:1/2 ~ 03h:∞[02]		
103	2 Field Motion Detection Enhancement	00~01	00
	00h:Still Picture \sim 0Fh:Motion Picture		
	[0Ch: Center]		
104	2 Field Motion Detection Enhancement Standard	00~01	00
	00h:ON, 01h:OFF		
105	1 Field Y Detection Slope, Y Motion Picture Smooth	00~03	02
	00h:ON 01h:OFF		
106	1 Field Y Detection Offset, Y Motion Picture Smooth	00∼0F	0E
	00h:1/2 ~ 03h:∞[02: Default]		
107	2 Field Color Detection 2nd Slope Threshold,	00~03	00
	Color Still Picture Edge		
	00h:0, 01h:1, 0h2:2, 03h:3		
108	1 Field Y Detection Slope, Y Still Picture Edge	00~03	02
	00h:1/2 ~ 03h:∞[02]		
109	1 Field Y Detection Offset, Y Still Picture Edge	00∼0F	06
	00h:Still Picture \sim 0Fh:Motion Picture		
	[0Ch: Center]		
110	2 Field C Detection 2nd Slope,	00~03	00
	Color Still Picture Edge		
	00h:1/8, 0h1:1/4, 02h:1/2, 03h:1		

TC90103 (7/12)

Adjustment	Adjustment Item	Adjustment	Initial Data(HEX)
Mode OSD	, tajaotinoni nom	Range(HEX)	DW1-U
TC90103	ANT/NTSC/480i	19 - (1	2
111	1 Filed Detection Slope, Y Still Picture Smooth 00h:1/2 ~ 03h:∞[02]	00~03	02
112	1 Field Y Detection Offset, Y Still Picture Smooth 00h:Still Picture ~ 0Fh:Motion Picture [0Ch: Center]	00~0F	0A
113	2 Field Detection 2nd Slope Threshold, Color Still Picture Smooth 00h:0, 01h:1, 02h:2, 03h:3	00~03	00
114	2 Field Color Detection Slope, Color Motion Picture Smooth 00h:1/2 ~ 03h:∞[02]	00~03	02
115	2 Field Color Detection Offset, Color Motion Picture Edge 00h:Still Picture ~ 0Fh:Motion Picture [0Ch: Center]	00~0F	06
116	2 Field Color Detection 2nd Slope, Color Still Picture Smooth 00h:1/8, 01h:1/4, 02h:1/2, 03h:1	00~03	00
117	2 Field Color Detection Slope, Color Motion Picture Edge 00h:1/2 ~ 03h:∞[02]	00~03	02
118	2 Field Color Detection Offset, Color Still Picture Smooth 00h:Still Picture ~ 0Fh:Motion Picture [0Ch: Center]	00~0F	0C
119	2 Field 2nd Slope Threshold, Y Still Picture Edge 00h:0, 01h:1, 02h:2, 03h:3	00~03	01
120	2 Field Color Detection Slope, Color Still Picture Edge 00h:1/2 ~ 03h:∞ [02h: Default]	00~03	01
121	2 Field Color Detection Offset, Color Still Picture Smooth 00h:Still Picture ~ 0Fh:Motion Picture [0Ch: Center]	00~0F	04
122	2 Field Detection 2nd Slope Offset, Y Still Picture Edge 00h:1/8, 01h:1/4, 02h:1/2, 03h:1	00~03	01
123	2 Field Color Slope Threshold, Color Still Picture Smooth 00h:1/2 ~ 03h:∞ [02h: Default]	00~03	02
124	2 Field Color Detection Offset, Color Still Picture Smooth 00h:Still Picture ~ 0Fh:Motion Picture [0Ch: Center]	00~0F	0B
125	2 Field Detection 2nd Slope Threshold, Y Still Picture Smooth 00h:0, 01h:1, 02h:2, 03h:3	00~03	01

TC90103 (8/12)

Adjustment	Adjustment Item	Adjustment	Initial Data(HEX)
Mode OSD		Range(HEX)	DW1-U
TC90103	ANT/NTSC/480i	<u>'</u>	'
126	2 Field Detection Slope, Y Motion Picture Edge	00~03	01
	00h:1/2 ~ 03h:∞ [02h: Default]		
127	2 Field Detection Offset, Y Motion Picture Edge	00∼0F	0D
	00h∶Still Picture ∼ 0Fh∶Motion Picture		
	[0Ch: Center]		
128	2 Field Detection 2nd Slope, Y Still Picture Smooth	00~03	01
	00h:1/8, 01h:1/4, 02h:1/2, 03h:1		
129	2 Field Detection Slope. Y Motion Picture Smooth	00~03	02
	00h:1/2 ~ 03h:∞ [02h: Default]		
130	2 Field Detection Offset, Y Motion Picture Smooth	00∼0F	0A
	00h:Still Picture ~ 0Fh:Motion Picture		
	[0Ch: Center]		
131	2 Field Detection Slope, Y Still Picture Edge	00~03	02
	00h:1/2 ~ 03h:∞ [02h: Default]		
132	2 Field Detection Offset, Y Still Picture Edge	00~0F	07
	00h∶Still Picture ∼ 0Fh∶Motion Picture		
	[0Ch: Center]		
133	2 Field Detection Slope, Y Still Picture Smooth	00~03	02
	00h:1/2 ~ 03h:∞ [02h: Default]		
134	2 Field Detection Offset, Y Still Picture Smooth	00~0F	0A
	00h∶Still Picture ∼ 0Fh∶Motion Picture		
	[0Ch: Center]		
135	[NR] Color Level	00∼0F	03
	(for Y Differential Color Level Detection)		
	00h:Small ~ 0Fh:Large [03h: Center]		
136	[NR/NR] Y Differential Integrate Motion Picture	00∼0F	01
	Distinction Level		
	00h:Motion Picture \sim 0Fh:Still Picture [01h: Default]		
137	2 Field Assistance Simple Color Motion Detection	00∼0F	0F
	Threshold		
	00h:Small \sim 0Fh:Large [0Fh: Default]		
138	2 Field Assistance Simple Color Motion Detection	00~01	00
	ON/OFF		
	00h:ON, 01h:OFF		
139	Color Signal Edge Detection Level	00~07	05
	00h:Small \sim 07h: Large [04h: Default]		
140	2 Field Assistance Function	00~01	01
	00h:OFF, 01h:ON		

TC90103 (9/12)

TC90103 (9/12 Adjustment	Adjustment Item	Adjustment	Initial Data/UEV\
Mode OSD	Adjustment item	Range(HEX)	Initial Data(HEX) DW1-U
TC90103	ANT/NTSC/480i	(Nalige(ITEX)	DW1-0
141	2 Field Assistance Select	00~01	00
141	00h:Y, 01h:C	00/301	00
142	2 Field Assistance Color Still Picture Distinction	00~07	04
172	Level	00 07	04
	00h: Small \sim 07h:Large [04h: Default]		
143	2 Field Assistance Y Still Picture Distinction Level	00~07	04
	00h: Small ~ 07h: Large [04h: Default]		
144	1 Field Detection Still Offset Adjustment for Still	00∼0F	0A
	Picture Cross Color Improvement		
	00h:OFF		
	~0Fh:Compulsion Still Picture 2 Step [0Ah: Default]		
145	2 Field Detection Still Picture Offset Adjustment for	00~0F	03
	Still Picture Cross Color Improvement		
	00h:OFF∼0Fh:Still Picture Distinction		
146	Motion Detection Error, Compulsion Motion Picture	00~0F	00
	at Vicinity of 3.4MHz		
	Still Color Signal Level Threshold		
	(Still Picture Color Detection)		
	00h:OFF~0Fh:15/1023 (1Lsb Step)[00h: Default]		
147	Motion Detection Error, Compulsion Motion Picture	00∼0F	00
	at		
	Vicinity of 3.4MHz		
	Still Picture Color Signal Level Threshold		
	(Still Picture No Color Detection)		
	00h:OFF~0Fh:15/1023 (1Lsb Step)[00h: Default]		
148	[NR] Band Select	00~01	00
	00h:Wideband, 01h: Narrowband		
149	Y Differential Color Level Detection	00~01	00
	00h: Motion Detection OFF, 01h: Nonlinear		
	Processing		
150	Y Non Correlation Detection Level Switch	00~01	00
	00h:[4:0], 01h:「5:1」		
151	Color Non Correlation Detection Level Switch	00~01	00
	00h:[5:1], 01h:[6:2]		
152	[NR] Y Differential Color Level Y Motion Picture	00∼0F	08
	Distinction Level		
	00h:Motion Picture ~ 0Fh:Still Picture [08h: Default]		
153	AGC Manual Setting (AGC = Auto Gain Control)	00~01	00
	00h:OFF, 01h:ON		
154	AGC Manual Gain Setting	00∼7F	28
	(AGC = Auto Gain Control)		
155	AGC Sync Level Detection ON/OFF	00~01	01
	(AGC = Auto Gain Control)		
	00h:OFF, 01h:ON		

TC90103 (10/12)

Adjustment	Adjustment Item	Adjustment	Initial Data(HEX)
Mode OSD		Range(HEX)	DW1-U
TC90103	ANT/NTSC/480i		
156	AGC Peak Level Detection ON/OFF	00~01	01
	(AGC = Auto Gain Control)		
	00h:OFF, 01h:ON		
157	AGC OFF/ON Level Setting	00~03	00
	(AGC = Auto Gain Control)		
	00h:OFF, 01h:70%, 02h:75%, 03h:80%		
158	GCA Setting (GCA = ?)	00~01	00
	00h:Auto, 01h:Digital		
159	AGC Response Time Setting	00~07	00
	(AGC = Auto Gain Control)		
	00h:Fast ∼ 07h:Slow		
160	Peak AGC Level (AGC = Auto Gain Control)	00~03	01
	00h:105%, 01h:110%, 02h:115%, 03h:120%		
161	GCA Gain Switch (GCA = ?)	00~03	01
	00h:-3~+7dB, 01h:+6dB,		
	02h:-5∼+5dB, 03h:-6∼+4dB		
162	Pedestal Difference Detection ON/OFF	00~01	00
	00h:OFF, 01h:ON		
163	Peak AGC Discharge Speed	00~07	00
	00h:Fast ~ 07h:Slow		
164	AGC Pedestal Timing for Digital Clamp	00~0F	08
	(AGC = Auto Gain Control)		
	$08h:-1.19us \sim 00h: (Center) \sim 07h:+1.04us$		
165	AGC Sync Timing for Digital Clamp	00~0F	08
	$08h:-1.19us \sim 00h:(Center) \sim 07h:+1.04us$		
166	Horizontal Phase Adjustment for Digital Format	00~0F	08
	08h:-1.185us \sim 00h: 0us \sim 0Fh:+1.04us		
167	Vertical Phase Adjustment for Digital Format	00~0F	00
	$00h:0H \sim 0Fh:+15H$		
168	Vertical Horizontal Start Phase at Vertical Through	00~07	00
	00h:0W, 01h:64W, 02h:128W, 03h:192W,		
	04h:256W, 05h:320W, 06h:348W, 07h:Prohibition		
169	VD at Non Standard Output	00~01	01
	00h:Horizontal Count Standard,		
	01h:Vertical Separation Standard		
170	656 Non Conforming Horizontal Out Phase	00~03	00
	00h:32W, 01h:36W, 02h:40W, 03h:44W		

TC90103 (11/12)

Adjustment	Adjustment Item	Adjustment	Initial Data(HEX)
Mode OSD		Range(HEX)	DW1-U
TC90103	ANT/NTSC/480i		
171	CK Out Clock Select	00~03	03
	00h:13.5MHz, 01h:27MHz(601:13.5MHz),		
	02h:54MHz(656:27MHz), 03h:AUTO		
172	Horizontal Blanking Period	00~01	00
	00h:OFF, 01h:ON		
173	Vertical Blanking Period	00~01	00
	00h:OFF, 0h1:ON		
174	601 Output Mode YCbCr Overlay Select	00~01	00
	00h:OFF, 01h:ON		
175	Horizontal Blanking Period Overlay Line Select	00∼1F	00
	NTSC:21/284 Lines + (Register Value) 、		
	PAL:24/337 Lines+(Register Value)		
	D2 60Hz 41 Lines + (Register Value) 、		
	D2 50Hz:47 Lines + (Register Value) [00h: Default]		
176	Field Blanking Period Overlay Line Select	00~0F	00
	NTSC:1 Line + (Register Value) 、		
	PAL:1 Line + (Register Value)		
177	for DID Code Setting	00~0F	04
178	for SDID Code Setting	00∼FF	04
179	Picture Processing Period Horizontal Start Phase	00∼0F	08
	Adjustment		
	08h:-1.185us \sim 00h:0us \sim 07h:+1.04us		
180	Picture Processing Period Horizontal Width	00~0F	08
	Adjustment		
	08h:-1.185us \sim 00h:0us \sim 07h:+1.04us		
181	Picture Processing Period Vertical Start Phase	00~0F	00
	Adjustment		
	00h:10 Line \sim 0Fh:25 Lines		
182	EN_PIXV_E	00~01	00
	00h:Manual, 01h:Auto		
183	COMB_KILL	00~07	07
	00h:OFF, 01h:1~21H, 02h:1~22H, 03h:1~23H,		
	04h:1~24H, 05h:1~25H, 06h:1~26H, 07h1:Auto		
	(60Hz:22H、50Hz:23H)		
184	Horizontal Blanking Pulse Start Phase Adjustment	00∼0F	08
	08h:-2.37us \sim 00h:0us \sim 07h:+2.07us		
185	Horizontal Blanking Pulse Width Adjustment	00∼0F	08
	$08h:-2.37us \sim 00h:0us \sim 07h:+2.07us$		

TC90103 (12/12)

Adjustment	Adjustment Item	Adjustment	t Initial Data(HEX)	
Mode OSD		Range(HEX)	DW1-U	
TC90103	ANT/NTSC/480i			
186	Memory Write Horizontal Phase Adjustment	00∼0F	08	
	08h:-2.37us \sim 00h:0us \sim 07h:+2.07us			
187	Memory Write Vertical Start Phase Adjustment	00∼0F	08	
	08h:-8H \sim 00h:0us \sim 07h:+7H			
188	Burst Gate Pulse Start Phase Adjustment	00∼0F	02	
	00h:0us ∼ 0Fh:+4.44us			
	[02h: Default] (3.58MHz unit)			
189	Clamp Pulse Horizontal Adjustment for Ghost	00∼0F	08	
	Canceller Tuner			
	08h:-1.185us \sim 00h:0us \sim 07h:+1.04us			
	[0Dh: Default] (6.75MHz unit)			
190	Pedestal Detection Pulse Start Phase Adjustment for Horiz	00∼0F	08	
	ontal Separation			
	08h:-2.37us~00h:±0~07h:+2.07us 3.375MHz unit			
191	Pedestal Detection Pulse Start Width Adjustment for Horizo	00∼0F	08	
	ntal Separation			
	08h:-2.37us~00h:±0~07h:+2.07us 3.375MHz unit			
192	Charge Discharge Pulse Start Phase Adjustment for	00∼0F	08	
	Input Clamp			
	08h:-2.37us~00h:±0~07h:+2.07us 3.375MHz unit			
193	Charge Discharge Pulse Start Width Adjustment for	00∼0F	08	
	Input Clamp			
	08h:-2.37us~00h:±0~07h:+2.07us 3.375MHz unit			
194	Color Stripe Detection	00~01	00	
	00h:OFF, 01h:ON			
195	Noise Detection Period Vertical Start Adjustment	00~07	00	
	NTSC:7H/270H Lines+(Register Value)、			
	PAL:4H/316H Lines+(Register Value)			
196	Read Data Read Order Switch	00~07	00	
197	EDTV II Detection	00~01	00	
	00h:OFF(ED2 Impossible),			
	01h:ON(ID1 Impossible)			
198	Linear Area Width Setting for ANT(Analog)	00~07	05	

AD9880 (1/1)

Adjustment	Adjustment Item		Adjustment	Initial Data(HEX)
Mode OSD			Range(HEX)	DW1-U
AD9880	A/D Converter, 480p/1080i/720p			
001	Pr channel gain Adjust		00∼7F	40
002	Y Channel Gain Adjust		00∼7FF	40
003	Pb Channel Gain Adjust		00∼7F	40
004	Pr offset MSB		00∼FF	40
005	Pr Offset		00∼FF	00
006	Y Offset MSB		00∼FF	04
007	Y Offset		00∼FF	00
008	Pb Offset MSB		00∼FF	40
009	Pb Offset		00∼FF	00
010	Clamp Placement	480p	00∼FF	06
011		1080i	00∼FF	45
012		720p	00∼FF	45
013	Clamp Duration	480p	00∼FF	1D
014		1080i	00∼FF	2A
015	-	720p	00∼FF	74

CXA2211 (1/2)

Adjustment	Adjustment Item		Adjustment	Initial Data(HE	X)
Mode OSD			Range(HEX)	DW1-U	
CXA2211	Sync Processor				
001	Horizontal Number High Bit		00∼3FF	*	
002	Vertical Number High Bit		00∼7FF	*	
003	AFC loop gain control 00h = H free-running mode	480i	00~03	02	
004	01h = gain low 02h = gain middle	480p	00~03	02	
005	03h = gain high	1080i	00~03	02	
006		720p	00~03	02	
007	Phase control (Control for rough-tune) for HOUT	480i	00~07	07	
008	00h = H sync center, 01h = center -3.125%,	480p	00~07	07	
009	02h = center -6.25%, 03h = center -9.375%	1080i	00~07	07	
010	04h~06h = Leading edge same phase as HSSOUT 07h = Outputs the same phase as HSSOUT	720p	00~07	07	
011	Phase control (Control for fine-tune) for HOUT This is valid when HSHIFT = $0 \sim 3$.	480i	00∼FF	10	
012	1 step: 0.024%, Total control range: 6%	480p	00∼FF	10	
013		1080i	00∼FF	10	
014		720p	00∼FF	10	
015	Sets the sync separation method. This is valid when AUTO = 1	480i	00~01	01	
016	00h = Forcibly sliced at the sync tip + 78mV level.	480p	00~01	01	
017	01h = Level detection mode	1080i	00~01	01	
018	7	720p	00~01	01	

DW1U

10. I²C Adjustment Parameter List (continued)

CXA2211 (2/2)

Adjustment	Adjustment Item		Adjustment	Initial Data(HE	X)
Mode OSD			Range(HEX)	DW1-U	
CXA2211	Sync Processor				
019	This is switch a switch that selects the route of LPF in the sync sep circuit.	480i	00~01	00	
020	This is valid when AUTO = 1 00h = Through, 01h = LPF	480p	00~01	00	
021		1080i	00~01	00	
022		720p	00~01	00	
023	Sync separation circuit slice level setting This is valid when HSEPSEL = 1	480i	00~03	01	
024	00h = Automatic setting 01h = H fixed to 65% from the sync tip.	480p	00~03	01	
025	02h = H fixed to 25% from the sync tip. $03h = ***$	1080i	00~03	01	
026		720p	00~03	01	

HDMI (1/2)

Adjustment	Adjustment Item	Adjustment	Initial Data(HEX)	
Mode OSD		Range(HEX)	DW1-U	
HDMI	HDMI_1/2			
001	VSYNC/Clock detect/Sync detect 1	00~07	*	
002	HDCP Status	00∼FF	*	
003	Pixel clock	00∼FF	*	
004	N hardware value 1 Low 7 bit	00∼FF	*	
005	N hardware value 1 Middle 7 bit	00∼FF	*	
006	N hardware value 1 High 4 bit	00∼FF	*	
007	CTS hardware value 1 Low 7 bit	00∼FF	*	
800	CTS hardware value 1 Middle 7 bit	00∼FF	*	
009	CTS hardware value 1 High 4 bit	00∼FF	*	
010	ACR PLL hardware value 1	00∼FF	*	
011	ACR PLL hardware value 1	00∼3F	*	
012	Extracted Sampling Frequency 1 channel status bits 24-27(same value at 0x30)	00∼7F	*	
013	Clock Accuracy/Sampling Frequency 1	00∼FF	*	
014	Audio length/Audio length max 1	00∼FF	*	
015	AV mute/HDMI mode 1	00∼FF	*	
016	AVI info frame type code 1	00∼FF	*	
017	AVI info frame version code 1	00∼FF	*	
018	AVI info frame data 1	00∼FF	*	
019		00∼FF	*	
020		00∼FF	*	
021		00∼FF	*	
022	7	00∼FF	*	

HDMI (2/2)

Adjustment		Adjustment	Initial Data(H	EX)
Mode OSD		Range(HEX)	DW1-U	
HDMI	HDMI_1/2			
023	SPD info frame type code	00∼FF	*	
024	SPD info frame version code	00∼FF	*	
025	SPD info frame data	00∼FF	*	
026	AUDIO Info Frame Type Code 1	00∼FF	*	
027	AUDIO Info Frame Version Code 1	00∼FF	*	
028	AUDIO Info Frame Data Bytes 1	00∼FF	*	
029		00∼FF	*	
030		00∼FF	*	
031		00∼FF	*	
032		00∼FF	*	
033	GCP data	00∼FF	*	
034	ACP packet type code	00∼FF	*	
035	ACP type	00∼FF	*	
036	DVD-audio type dependent generation	00∼FF	*	
037	Audio copy information	00∼FF	*	
038	RGB to YCbCr range scaling	00~01	01	
039	Back Porch Mode, Field 2 Position Adjustment	00~01	01	
040	Matching Test to allow increment of stability counter.	00~01	00	
041	RGB to YCbCr range scaling	00~01	01	
042	Back Porch Mode, Field 2 Position Adjustment	00~01	01	
043	Matching Test to allow increment of stability counter.	00~01	00	

11. TROUBLESHOOTING FLOWCHARTS

11.1.1 TROUBLE SHOOTING for DIGITAL MODULE (Device error check)

Digital Main P.W.B has five LED (KNIGHT RIDER) on board. After Power ON by POWER_1(6pin of PPT3), these LED will be turned on in sequence as follows. It may take a few seconds for the sequence.

LED sequence

Sequence	D302 (Red) <pio04></pio04>	D303 (Green) <pio03></pio03>	D304 (Yellow) <pio02></pio02>	D305 (Orange) <pio01></pio01>	D306 (Red) <pio00></pio00>
1 (Start)	0	0	0	0	
2					
3					
4	Ó				
5 (End)	O	0	0	0	0

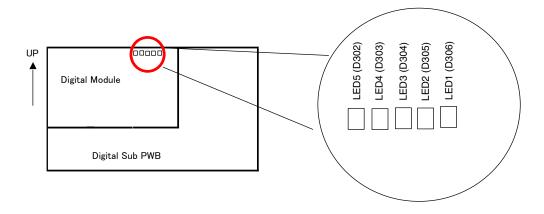
○ is turn off the LED, ● is Lighting the LED

After Program is loaded without error, all LED will be turned off. Any LED should not light.

If some errors occur, LED will show the error pattern.

- (1) Check that LED is not lit.
- (2) If LED is lit, refer to the following table and check the involved devices.

Location of LEDs



11. TROUBLESHOOTING FLOWCHARTS

LED patterns for involved devices

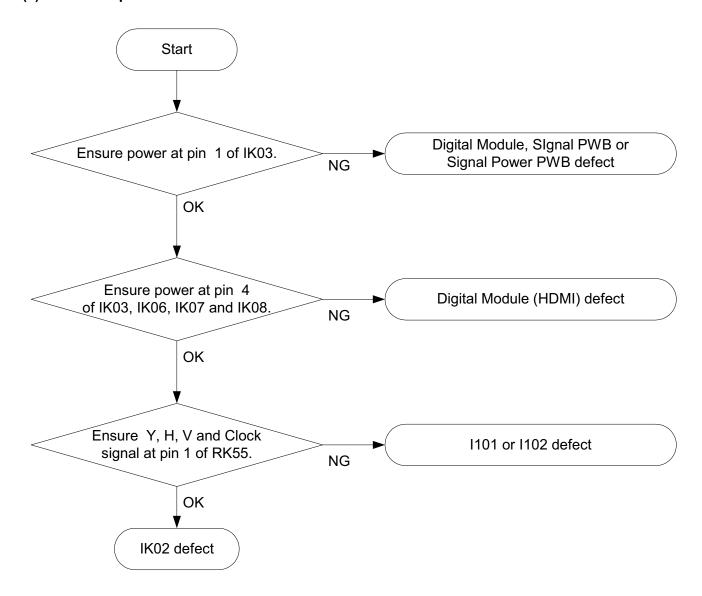
No.	LED					Device	Circuit No	
	D306 (Red)	D305 (Orange)	D304 (Green)	D303 (Yellow)	D302 (Red)			
1	0	0	0	0	•	-	-	
2	0	0	0	•	0	Digital Tuner		Video/Audio of Cable/Air
3	0	0	0	•	•	Analog Tuner		Video/Audio of Cable/Air
4	0	0	•	0	0	MPEG		Video/Audio of Cable/Air
5	0	0	•	0	•	Graphics		All OSD
6	0	0	•	•	0	Flash Memory		Loading Program
7	0	0	•	•	•	IEEE1394 (Vivid Logic)		IEEE1394
8	0	•	0	0	0	-		
9	0	•	0	0	•	-		
10	0	•	0	•	0	-		
11	0	•	0	•	•	-		
12	0	•	•	0	0	Video Decoder (TC9010)		CCD etc.
13	0	•	•	0	•	-		
14	0	•	•	•	0	Audio DSP (AD9980)		Audio cont. SRS/BBE
15	0	•	•	•	•	-		
16	•	0	0	0	0	HDMI		HDMI
17	•	0	0	0	•	A/D Converter (AD9980)		Video
18	•	0	0	•	0	Sync Separator (CXA2211)		Sync
19	•	0	0	•	•	FC4		Picture Cont.
20	•	0	•	0	0	FC6		Picture Cont.

11. TROUBLESHOOTING FLOWCHARTS

No.	LED		Device	Circuit No	Role			
	D306 (Red)	D305 (Orange)	D304 (Green)	D303 (Yellow)	D302 (Red)			
21	•	0	•	•	0	-		
22	•	0	•	•	•	Drive u-COM		LCD panel
23	•	•	0	0	0	Video SW		Video
24	•	•	0	0	•	Audio SW		Audio
25	•	•	0	•	0	Temp. Sensor		Temperature sensor
26	•	•	0	•	•	-	-	
27	•	•	•	0	0	-	-	
28	•	•	•	0	•	-	-	
29	•	•	•	•	0	-	-	
30	•	•	•	•	•	-	-	
31	•	0	0	0	•	-	-	

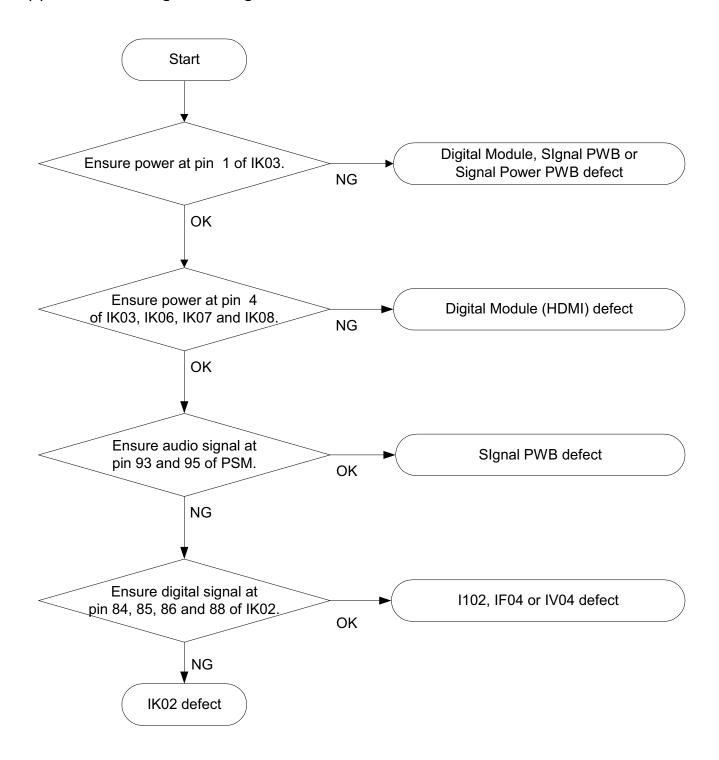
11.2.1 Trouble shooting for HDMI

(1) No HDMI picture

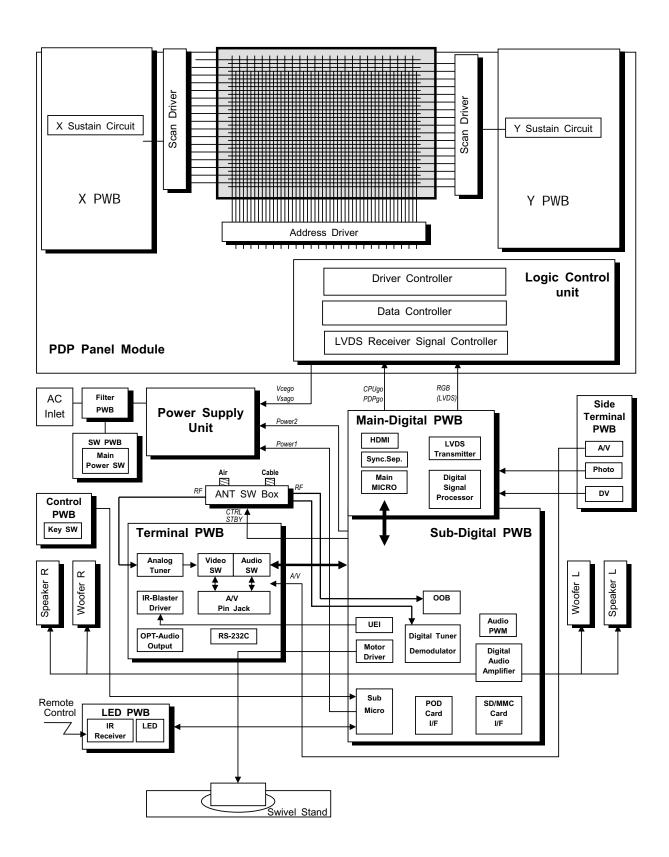


11. TROUBLESHOOTING FLOWCHARTS

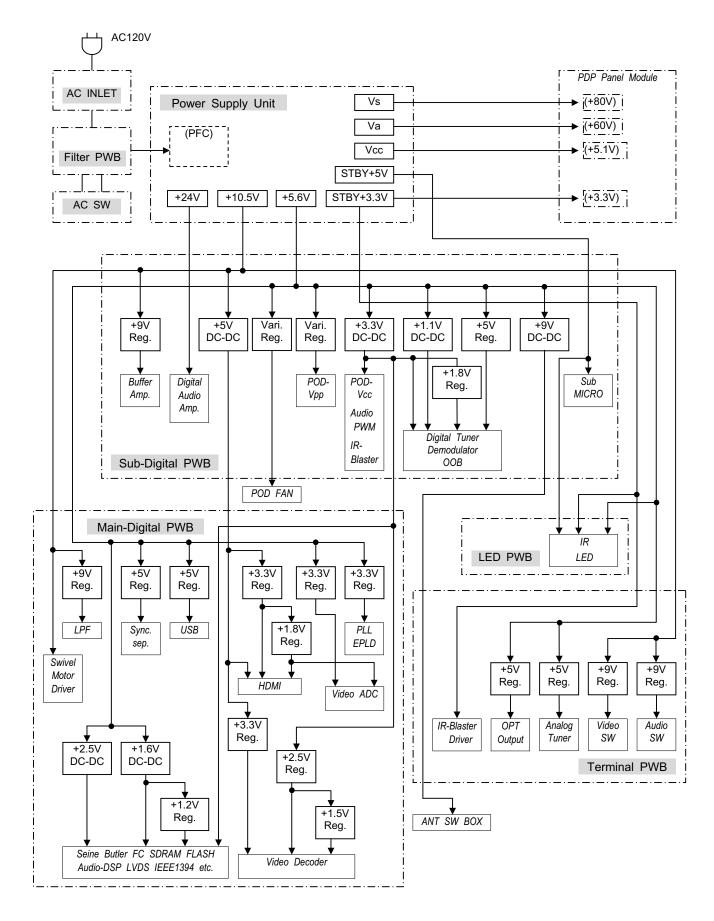
(2) No HDMI analog and/or digital audio



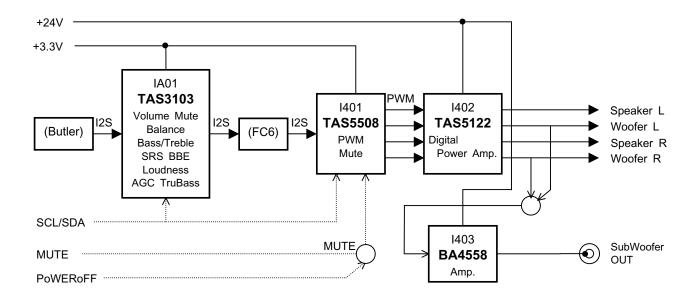
CIRCUIT BLOCK DIAGRAM



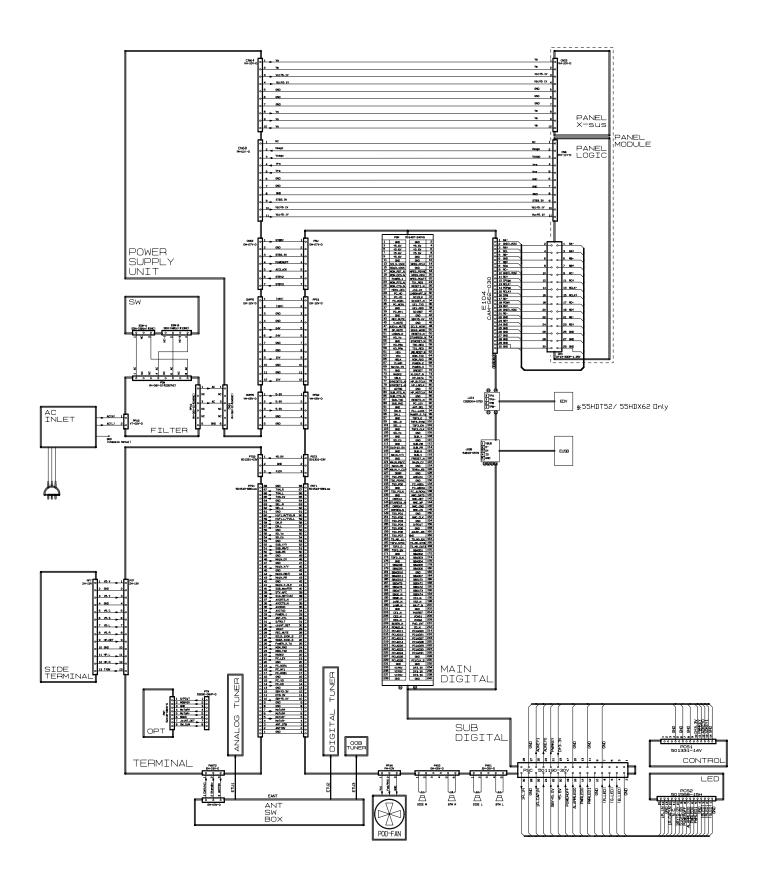
POWER SYSTEM BLOCK DIAGRAM



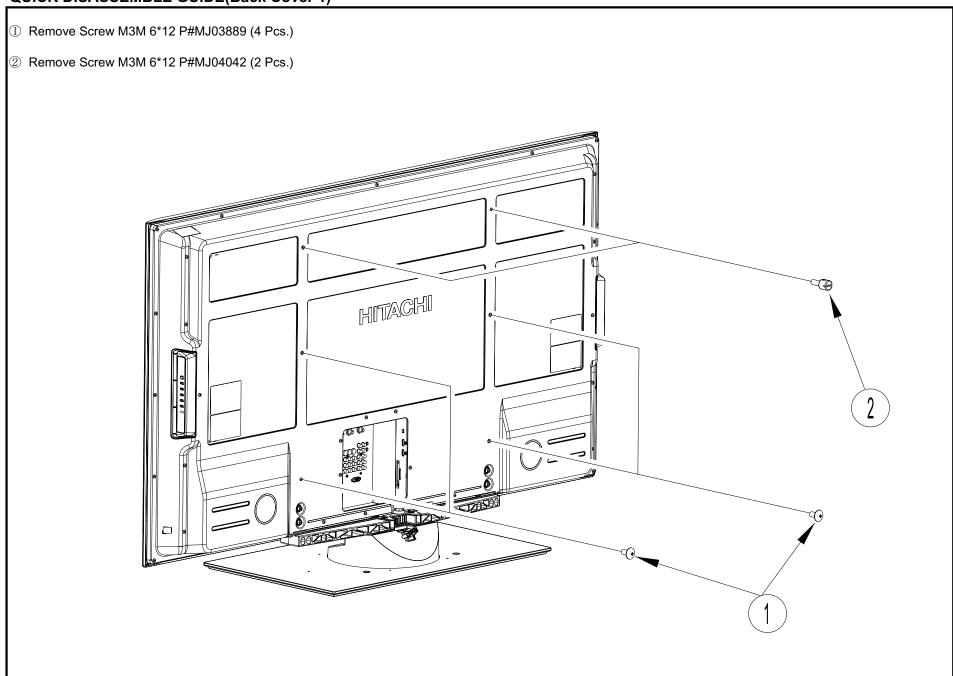
AUDIO CIRCUIT BLOCK DIAGRAM



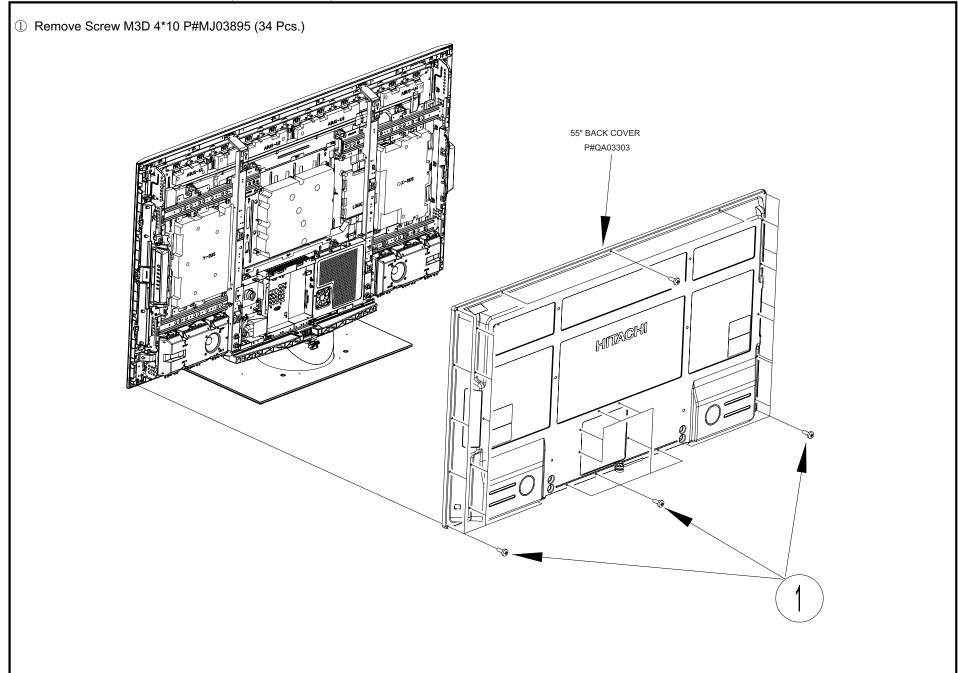
CONNECTION DIAGRAM (55" Models Only)



QUICK DISASSEMBLE GUIDE(Back Cover 1)

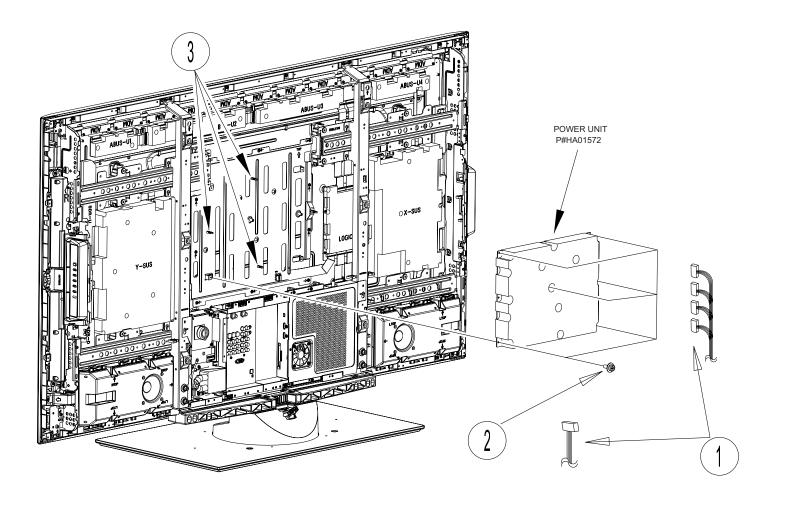


QUICK DISASSEMBLE GUIDE(Back Cover 2)

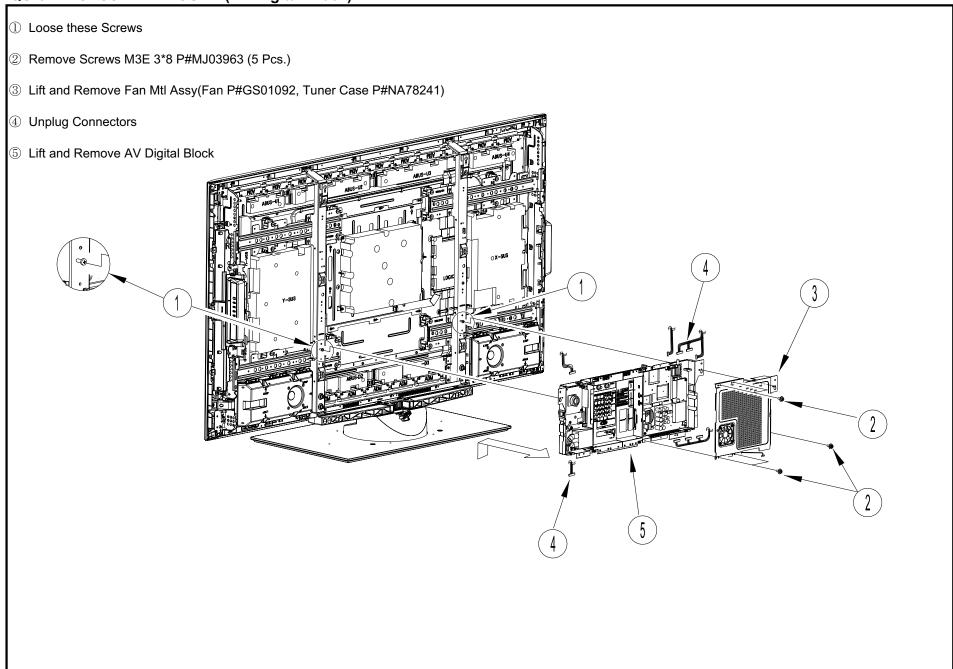


QUICK DISASSEMBLE GUIDE(Power Unit)

- ① Unplug Connectors
- ② Remove Screws M3E 3*8 P#MJ03963 (6 Pcs.)
- ③ Push Plastic Holder Wings and Remove Power Unit



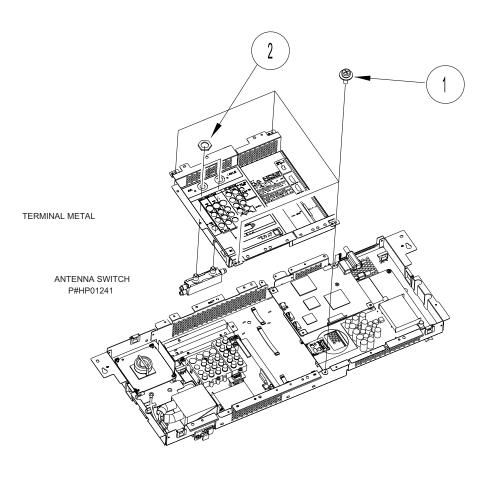
QUICK DISASSEMBLE GUIDE(AV Digital Block)



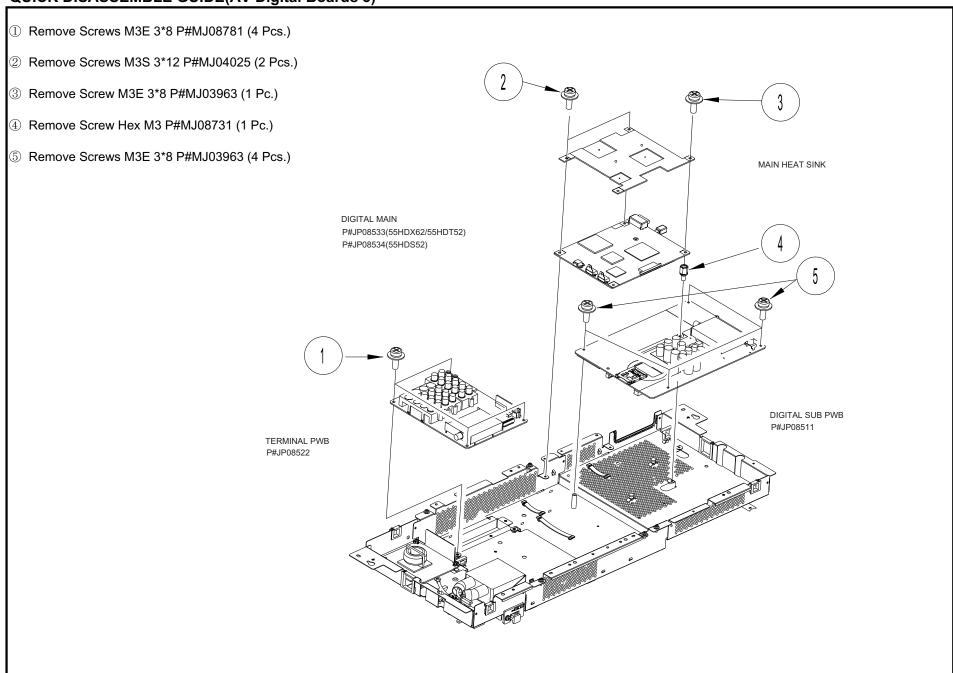
QUICK DISASSEMBLE GUIDE(AV Digital Boards 1) ① Remove Screws M3E 3*8 P#MJ03963 (2 Pcs.) TERMINAL PLATE

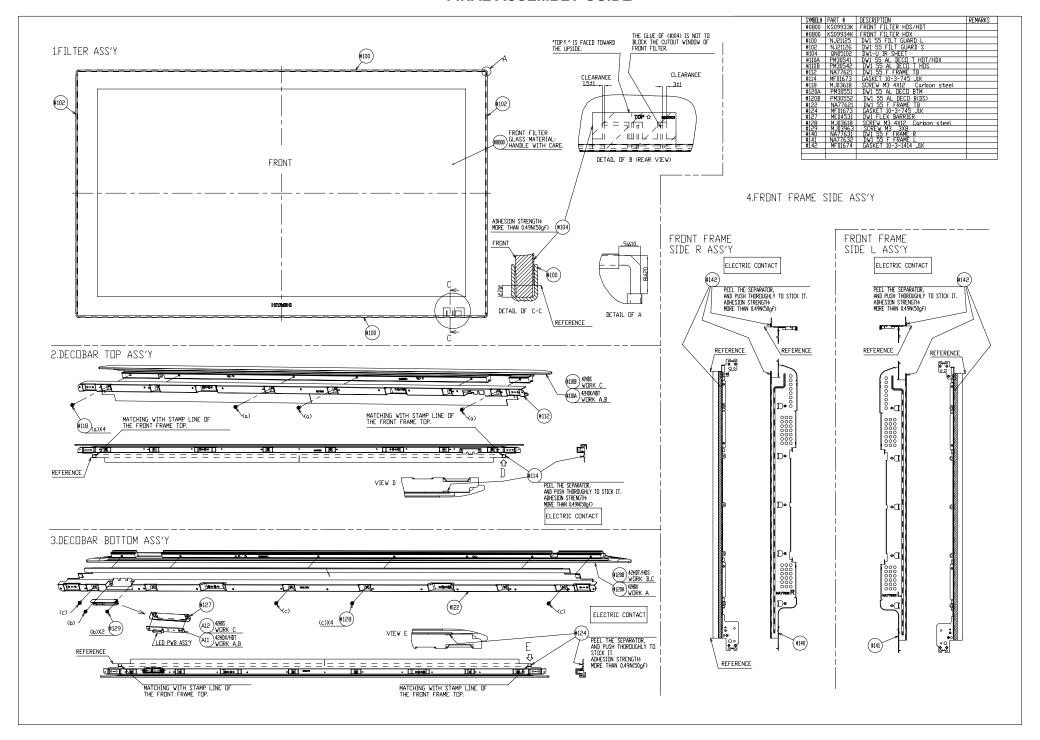
QUICK DISASSEMBLE GUIDE(AV Digital Boards 2)

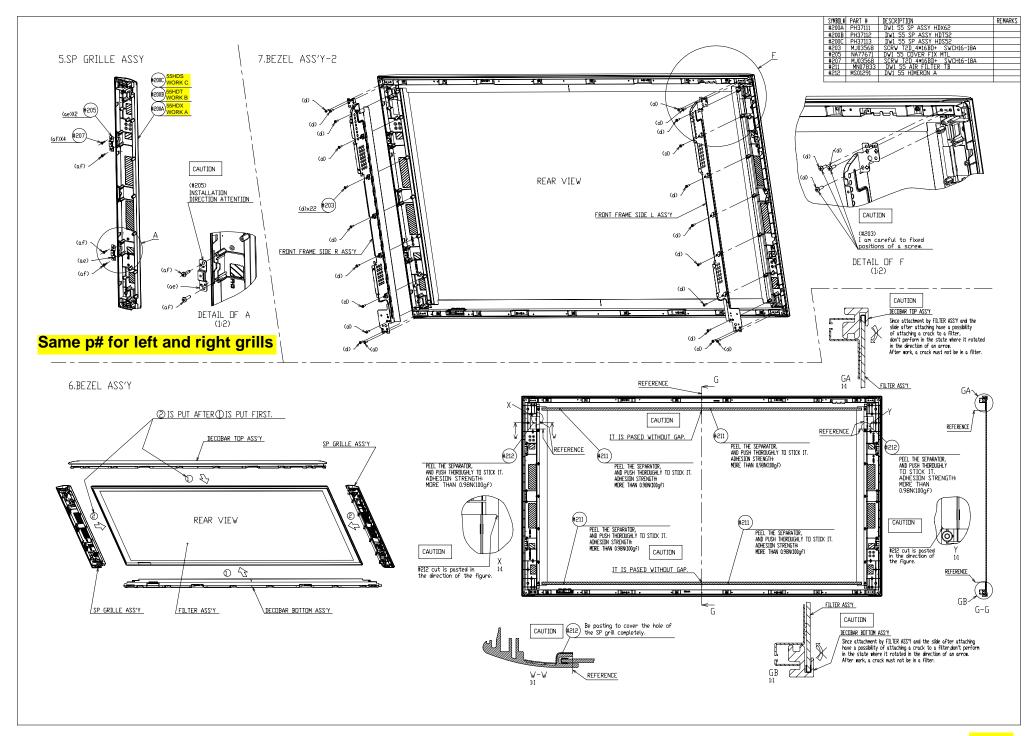
- ① Remove Screws M3E 3*8 P#MJ03963 (4 Pcs.)
- ② Remove Hex Nut P#MK01511 (2 Pcs.)
 Washer P#MK01431 (2 Pcs.)

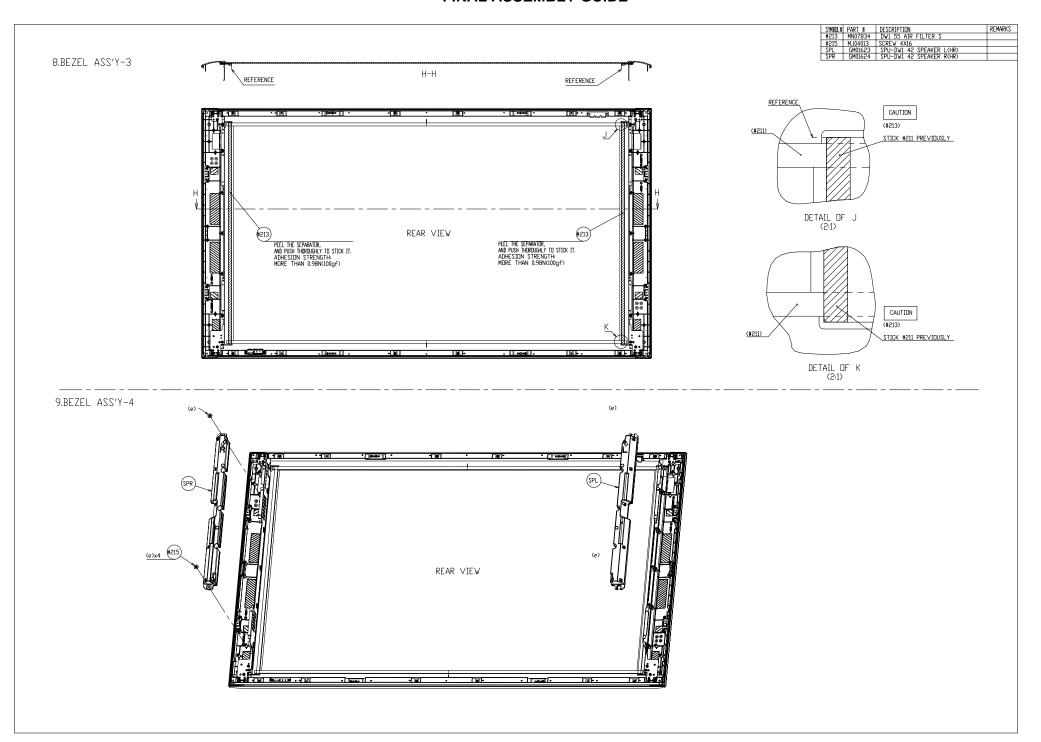


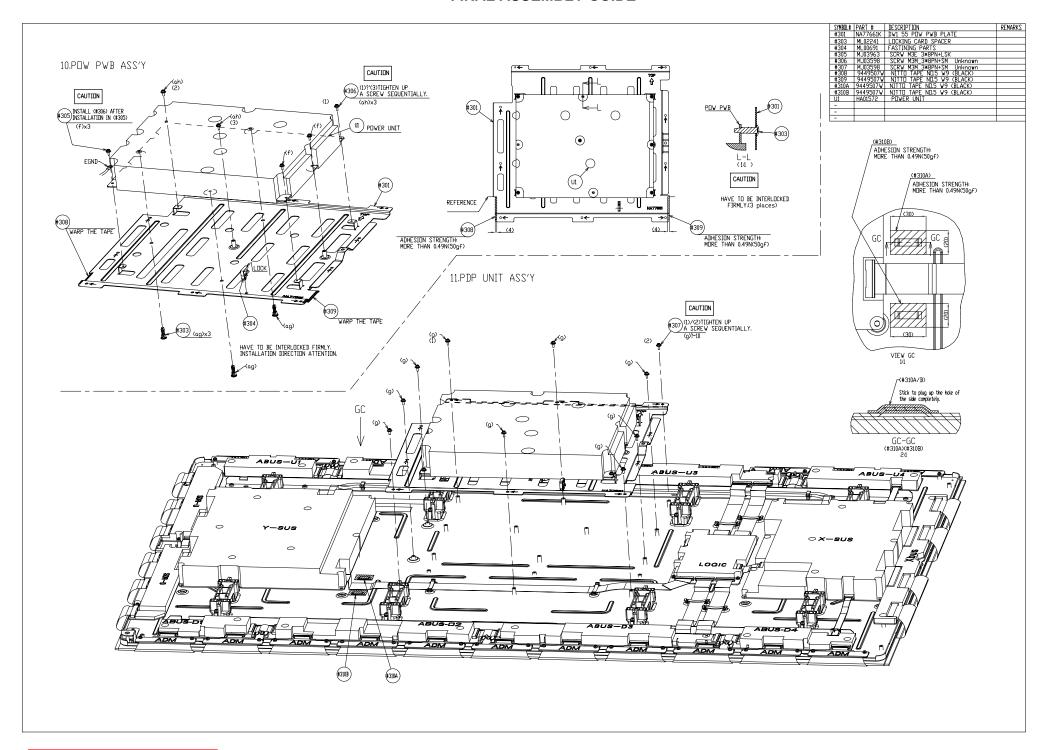
QUICK DISASSEMBLE GUIDE(AV Digital Boards 3)

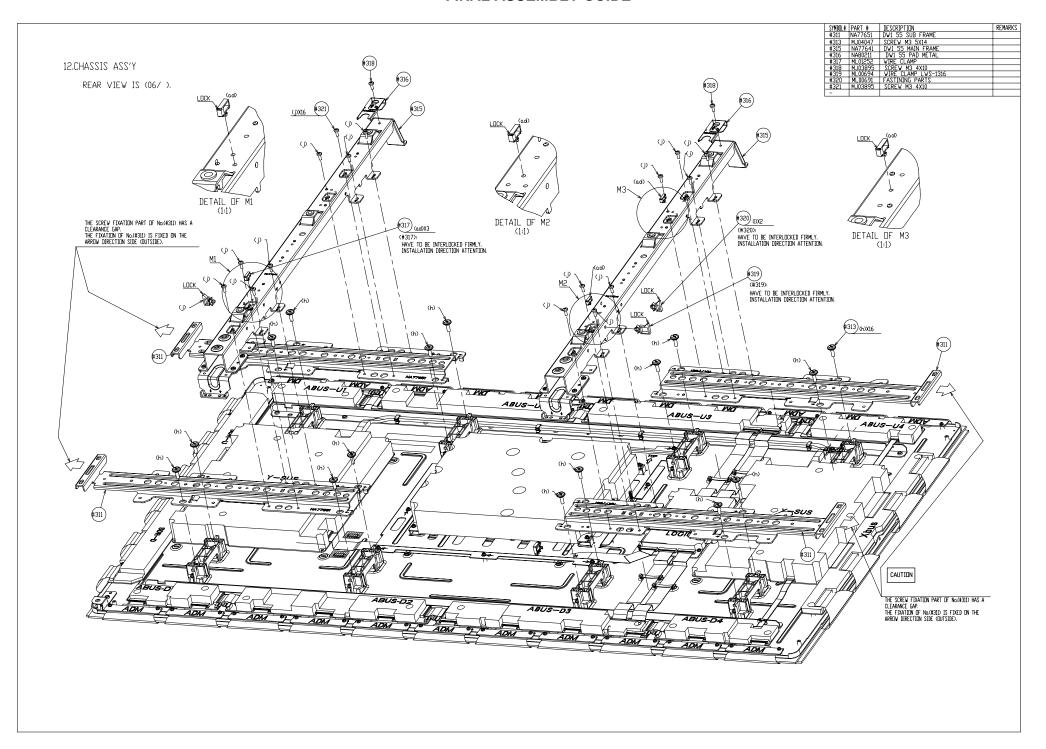


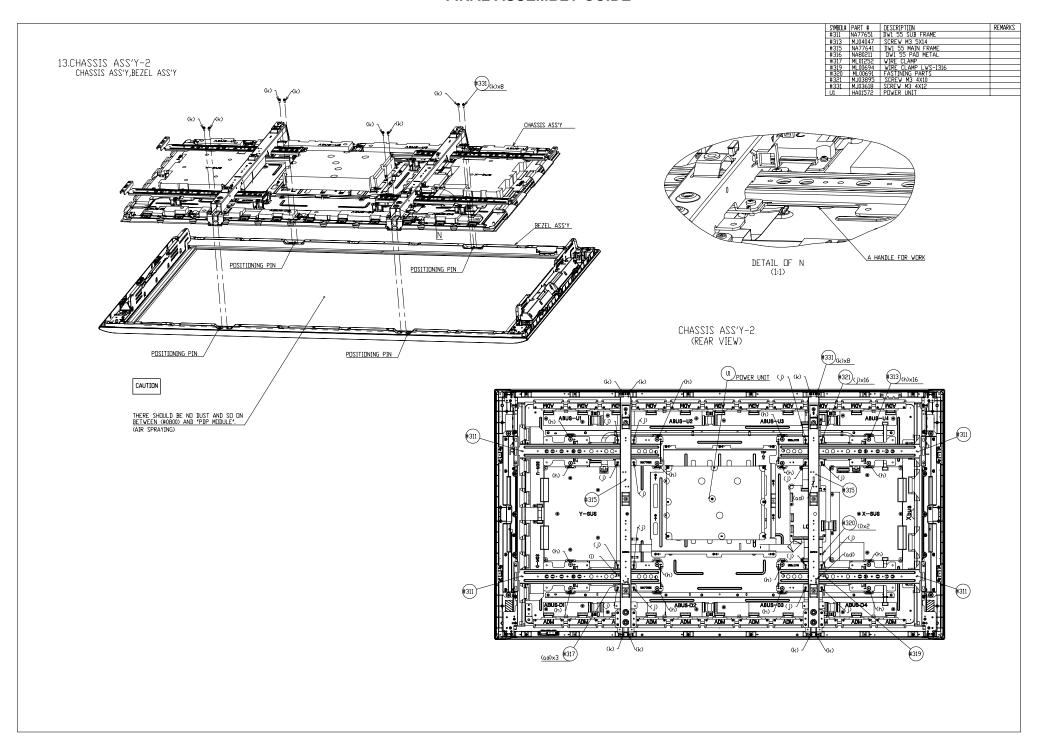


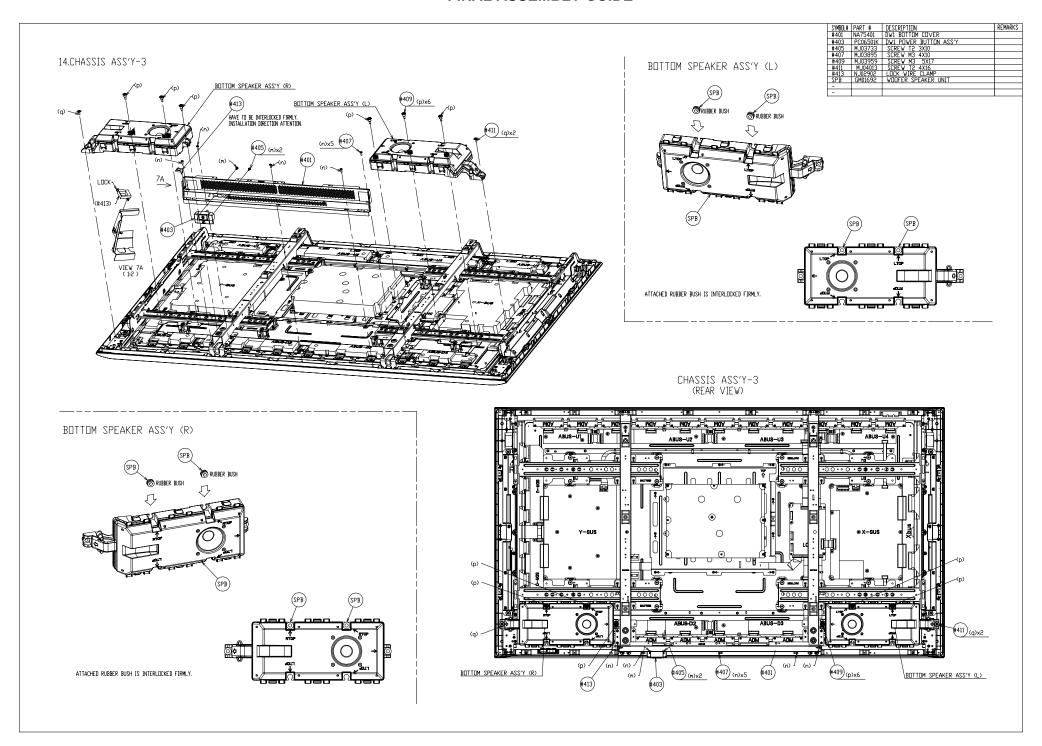






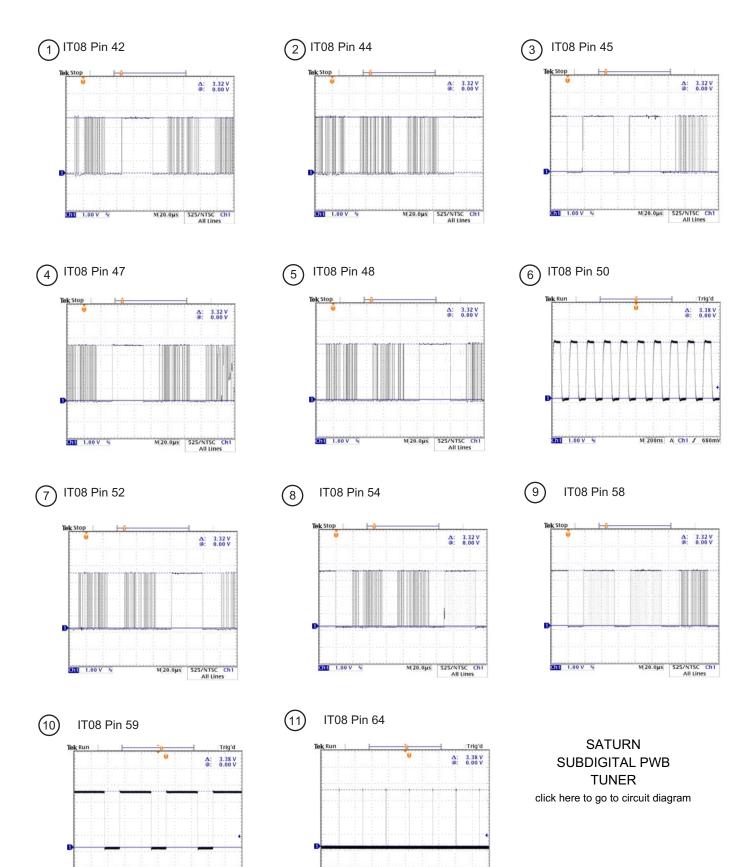






WAVEFORMS AT EACH SECTION

Numbers inside circle correspond to locations shown in the circuit diagram. Signal amplitude and DC level shown at Δ and @ respectively.



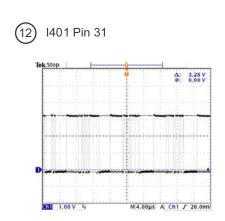
M 40.0µs A Ch1 / 680mV

1.00 V N

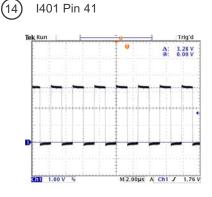
M 20.0µs A Ch1 ∫ 680mV

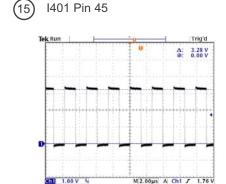
WAVEFORMS AT EACH SECTION

Numbers inside circle correspond to locations shown in the circuit diagram. Waveforms taken using a Color Bar signal with H sync 31 khz and V. sync 60 hz and a X10 probe. Signal amplitude and DC level shown at Δ and @ respectively.

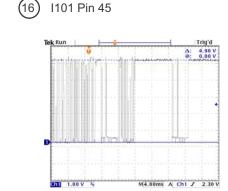


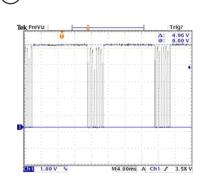




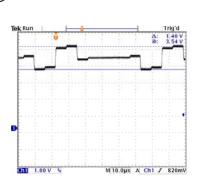






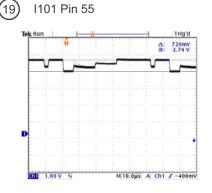


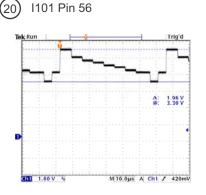
1101 Pin 46



(18)

1101 Pin 54





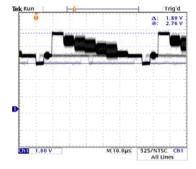
TERMINAL PWB
VIDEO SELECTOR
click here to go to circuit diagram

DW1U

WAVEFORMS AT EACH SECTION

Numbers inside circle correspond to locations shown in the circuit diagram. Waveforms taken using a Color Bar signal with H sync 31 khz and V. sync 60 hz and a X10 probe. Signal amplitude and DC level shown at Δ and @ respectively.





TERMINAL PWB
VIDEO SELECTOR
click here to go to circuit diagram

DW1U DC VOLTAGE TABLES

(55" Models Only)

Symbol	Pin No.	Voltage
UTJ1	1	0
	2	5 V
	3	0
	4	14 V
	5	2.4 V
	6	0
	7	5 V
	8	2.5 V
	9	0.35 V
	10	5 V
	11	2.6 V
	12	2.5 V
	13	2.2 V
	14	0
	15	2.3 V
	16	2.3 V
	17	0
	18	5 V
	19	0
	20	5 V

Symbol	Pin No.	Voltage
CN61	1	1.6 V
	2	NC
	3	125 V
	4	NC
	5	NC
	6	0.65 V

Pin No.	Voltage
1	5.7 V
2	5.7 V
3	5.7 V
4	0
5	0
	1 2 3 4

Symbol	Pin No.	Voltage
UT01	1	0
	2	5 V
	3	0
	4	14.6 V
	5	8.3 V
	6	0
	7	5 V
	8	3.3 V
	9	5 V
	10	5 V
	11	0
	12	0
	13	0
	14	0
	15	0
	16	0
	17	0
	18	5 V
	19	0
	20	0

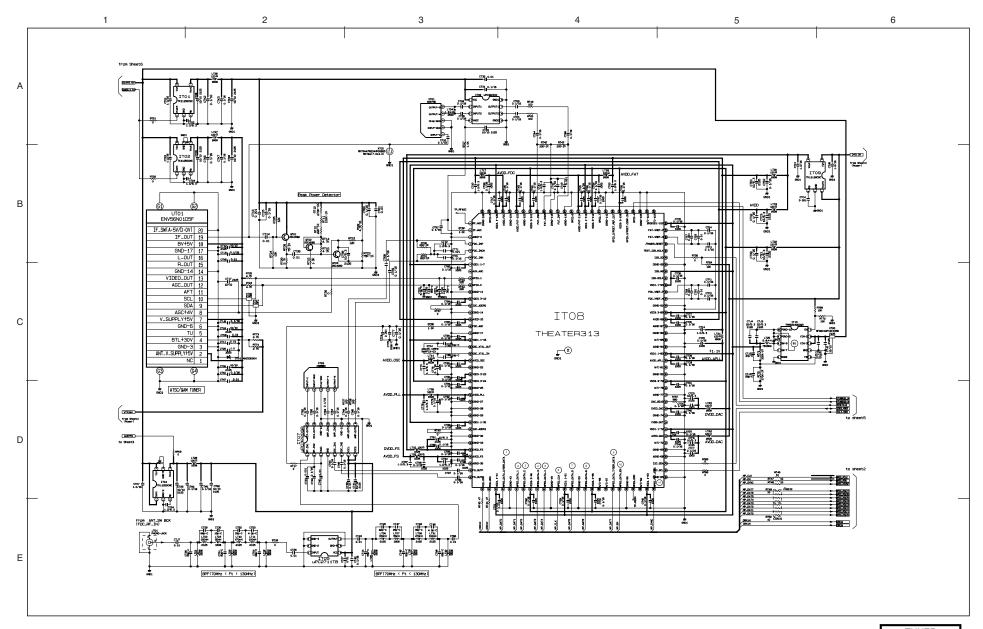
Symbol	Pin No.	Voltage
CNPPS	1	16.5 V
	2	16.5 V
	3	0
	4	0
	5	25 V
	6	25 V
	7	0
	8	0
	9	10.5 V
	10	0
	11	0
	12	10.5 V

Symbol	Pin No.	Voltage
CN63	1	5.4 V
	2	0
	3	3.3 V
	4	0
	5	3.3 V
	6	3.3 V
	7	3.3 V

Symbol	Pin No.	Voltage
CN64	1	63.4 V
	2	63.4 V
	3	5 V
	4	5 V
	5	0
	6	0
	7	0
	8	84.7 V
	9	84.7 V
	10	84.7 V

Symbol	Pin No.	Voltage
CN68	1	NC
	2	3.3 V
	3	3.3 V
	4	1.7 V
	5	1.4 V
	6	0
	7	0
	8	0
	9	3.3 V
	10	5 V
	11	5 V

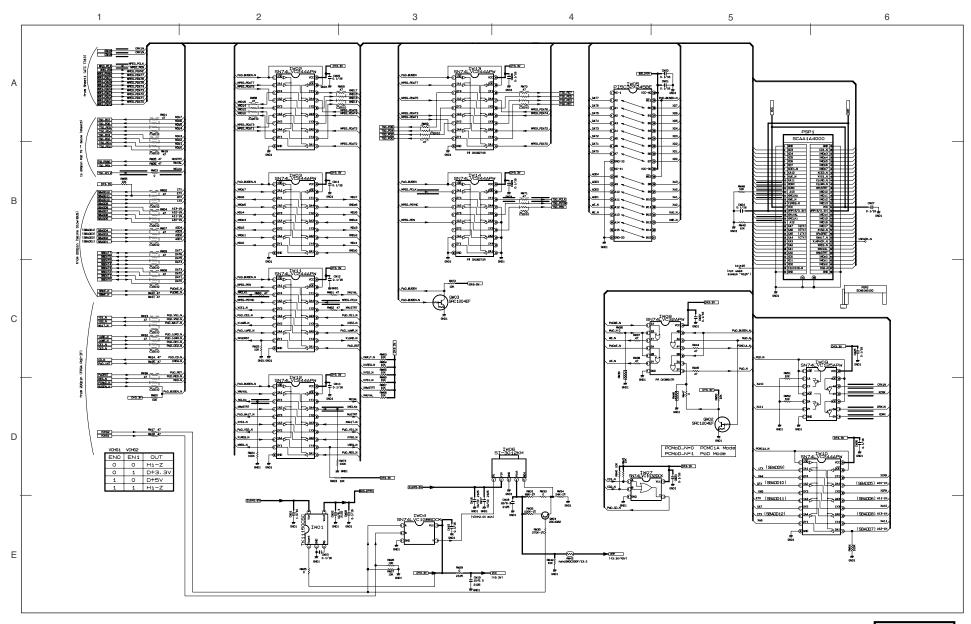
PRODUCT SAFETY NOTE: Components marked with a $ildе{\Lambda}$ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.



- All DC voltage to be measured with a tester (100 kΩ/V). Voltage taken on a complex color bar including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

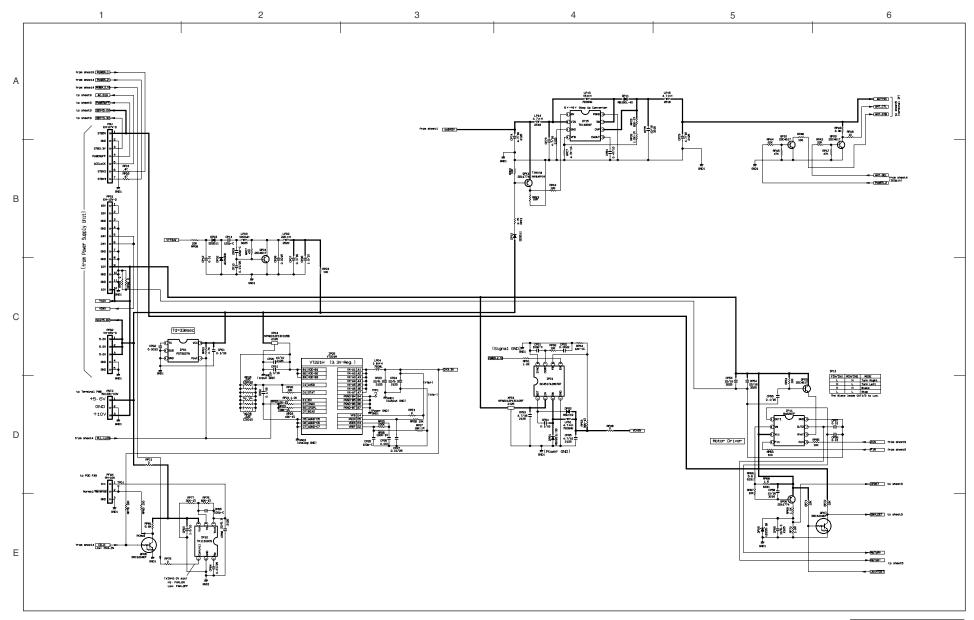
TUNER

PRODUCT SAFETY NOTE: Components marked with a $extstyle \Delta$ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.



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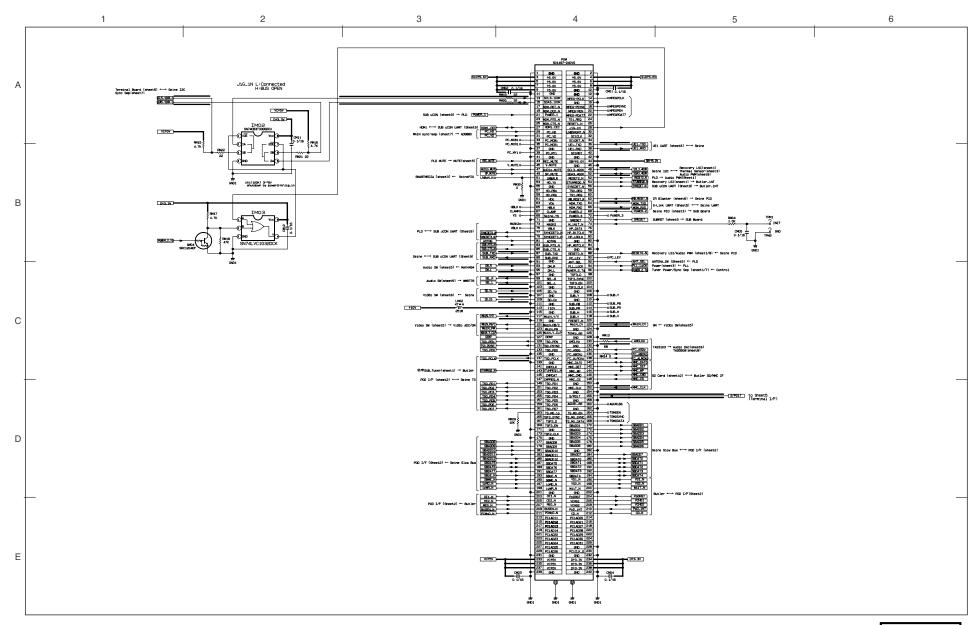


All DC voltage to be measured with a tester (100 kΩ/V). Voltage taken on a complex color bar including a standard color bar signal.

Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

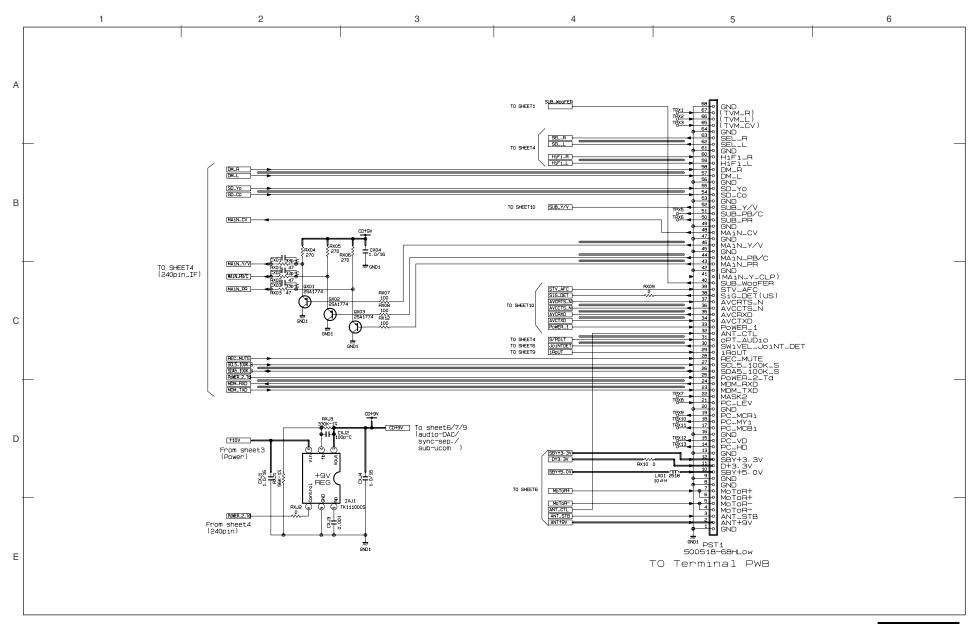
POWER I/F & SWIVEL

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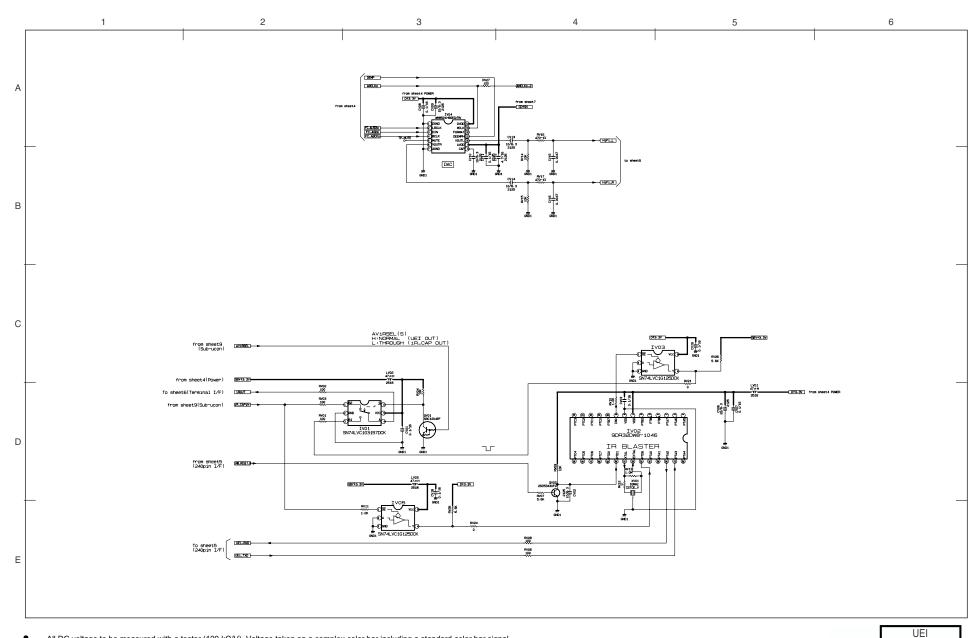
- All DC voltage to be measured with a tester (100 kΩ/V). Voltage taken on a complex color bar including a standard color bar signal.
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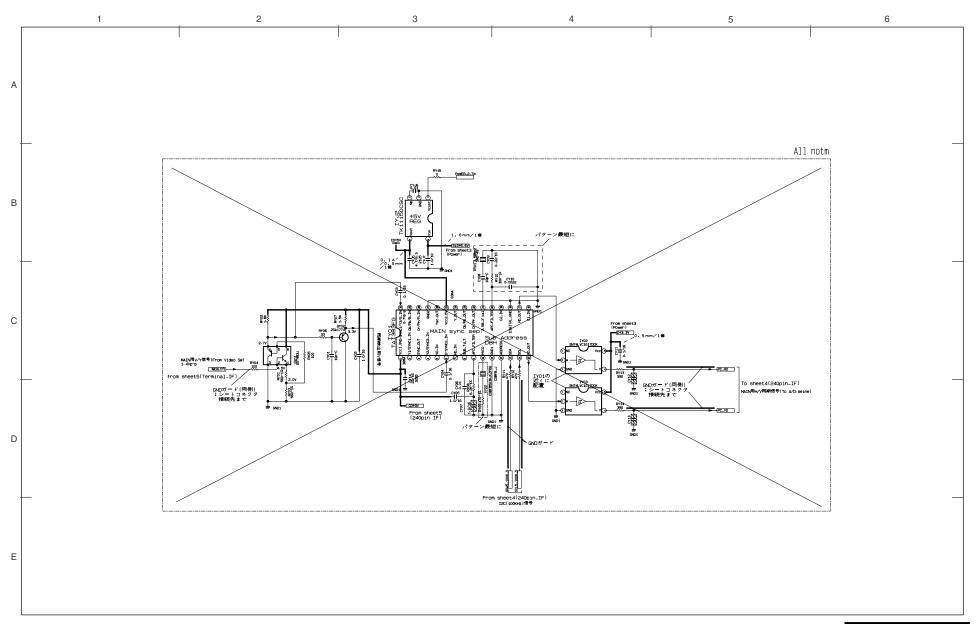
- All DC voltage to be measured with a tester (100 kΩ/V). Voltage taken on a complex color bar including a standard color bar signal.
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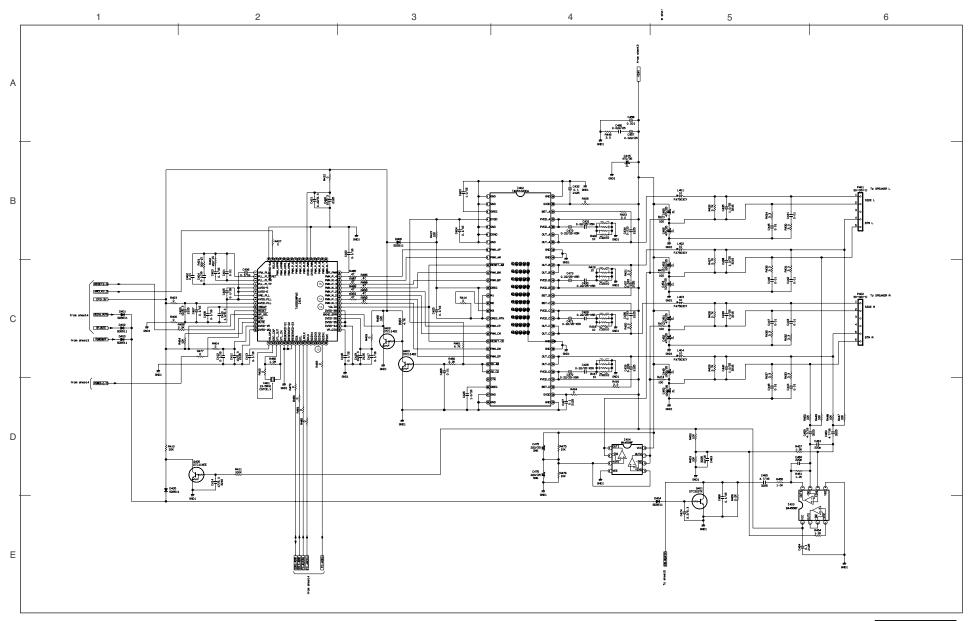
PRODUCT SAFETY NOTE: Components marked with a $extstyle \Delta$ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.



- All DC voltage to be measured with a tester (100 kΩ/V). Voltage taken on a complex color bar including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

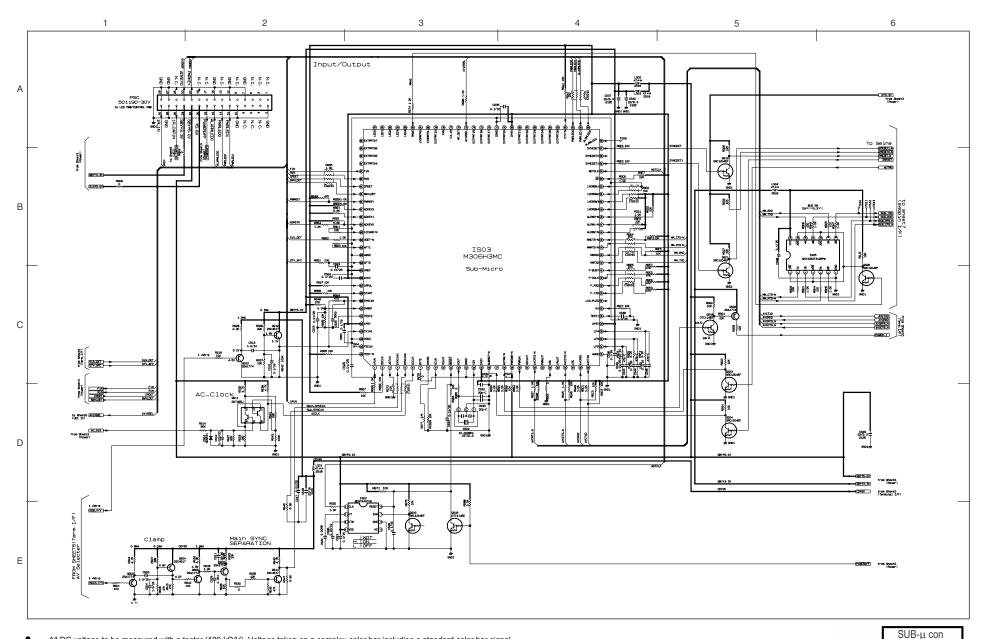
MAIN SYNC SEPARATION

PRODUCT SAFETY NOTE: Components marked with a $ildе{\Lambda}$ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.



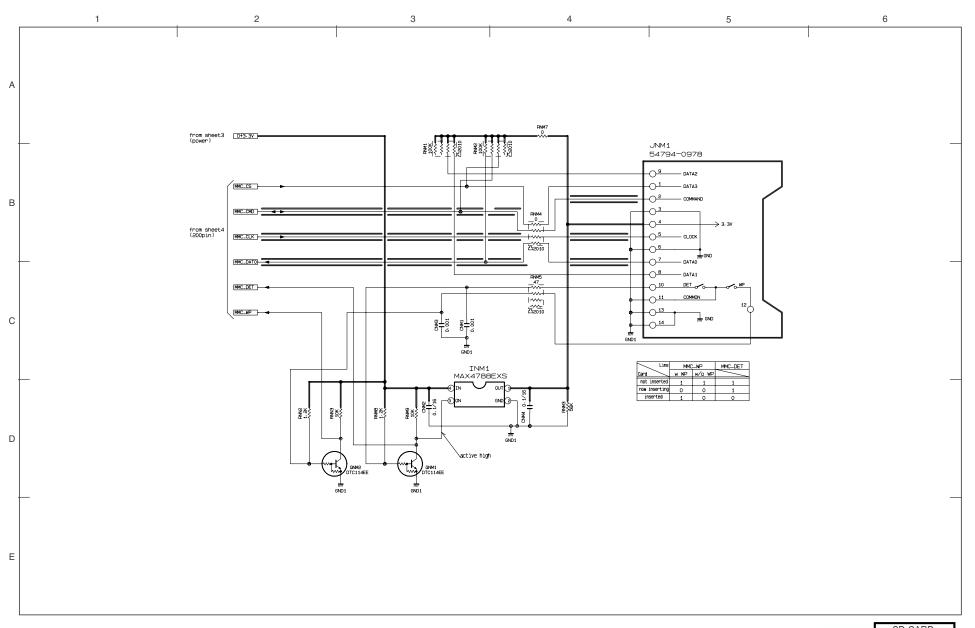
- All DC voltage to be measured with a tester (100 kΩ/V). Voltage taken on a complex color bar including a standard color bar signal.
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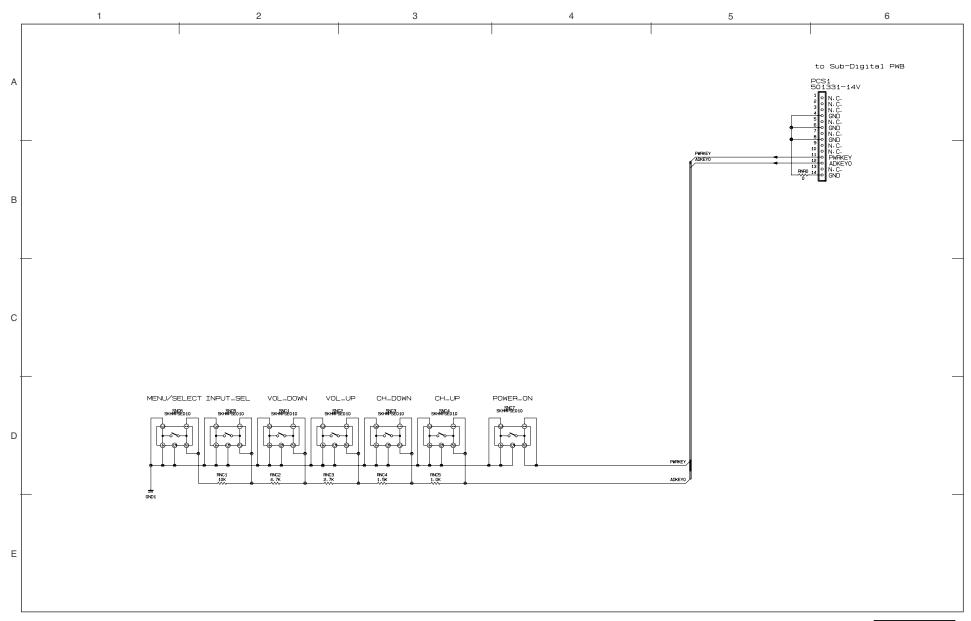


- All DC voltage to be measured with a tester (100 kΩ/V). Voltage taken on a complex color bar including a standard color bar signal.
- Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

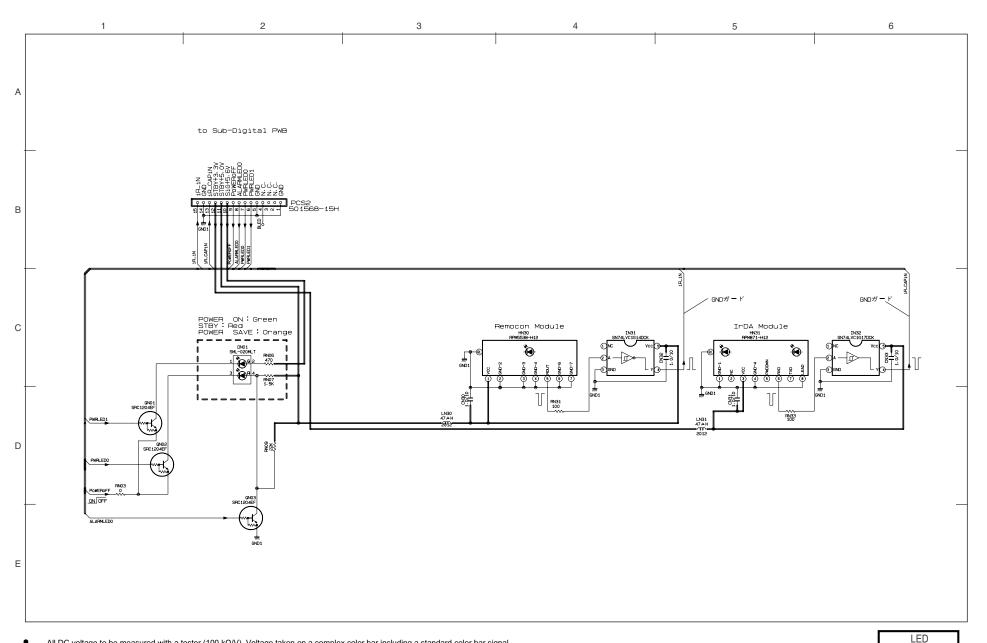
PRODUCT SAFETY NOTE: Components marked with a \triangle and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.



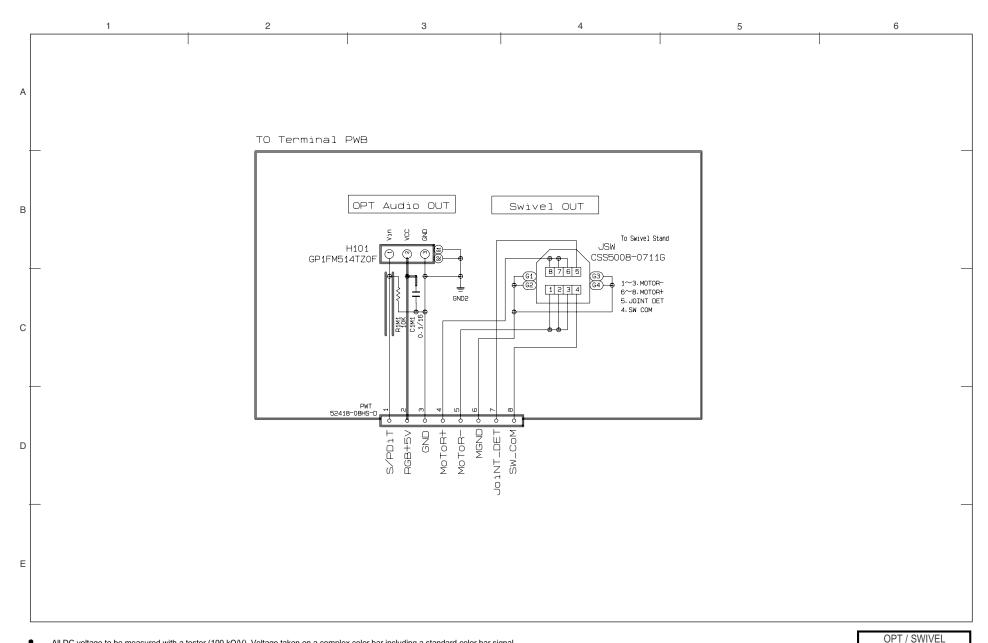
- All DC voltage to be measured with a tester (100 kΩ/V). Voltage taken on a complex color bar including a standard color bar signal.
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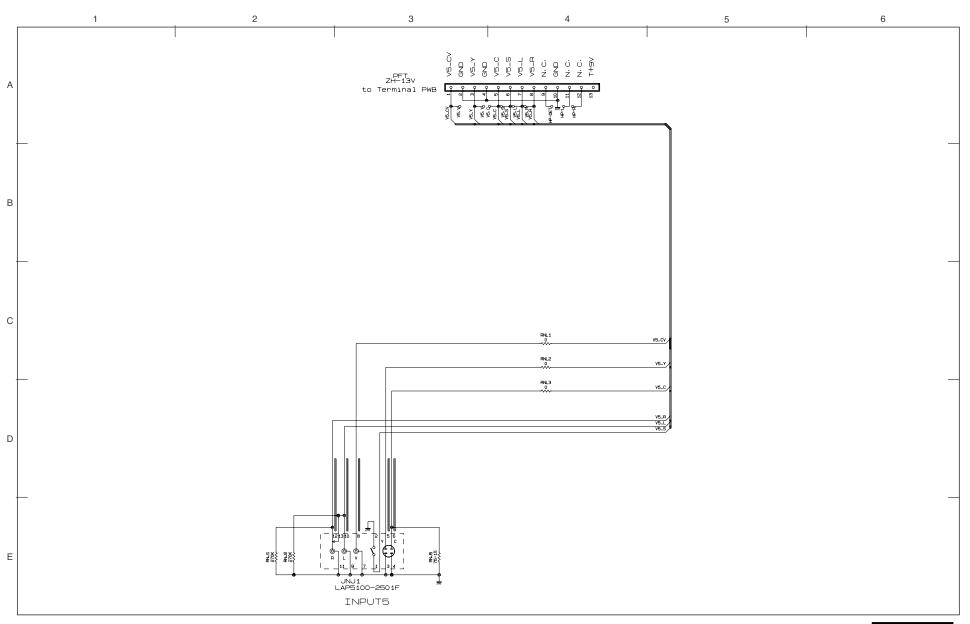


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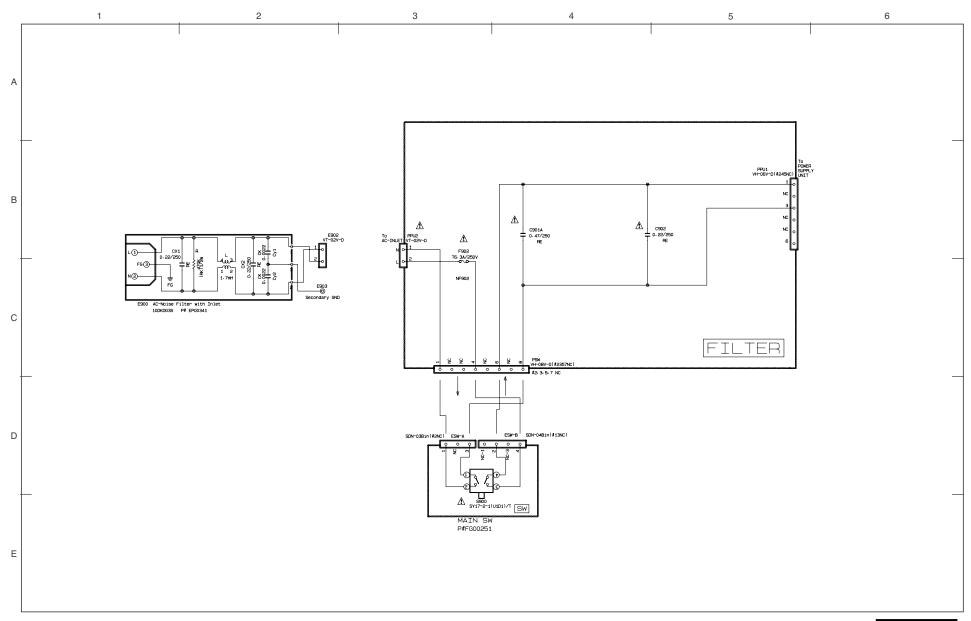
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SIDE TERMINAL

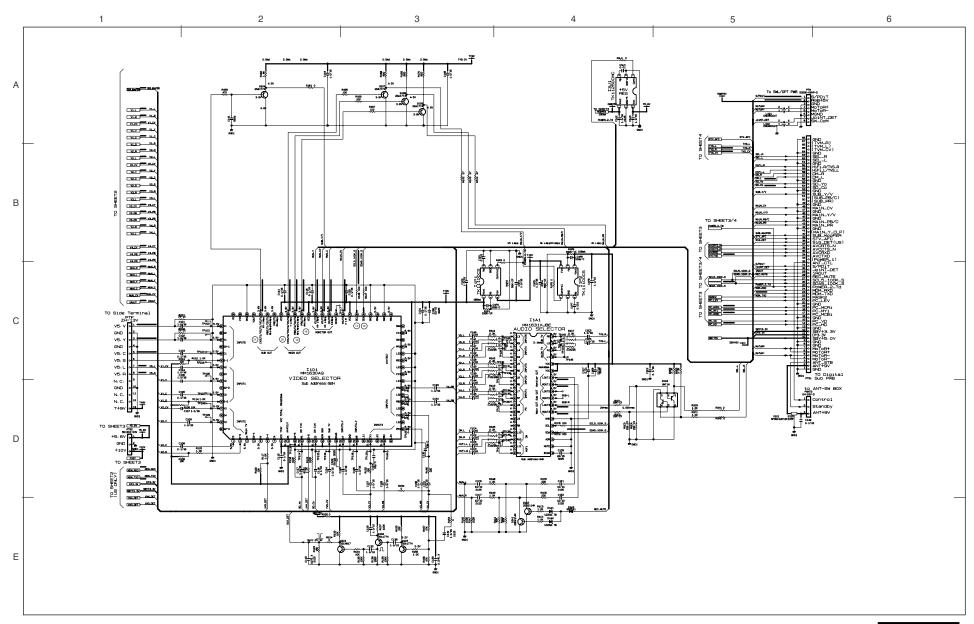
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All DC voltage to be measured with a tester (100 kΩ/V). Voltage taken on a complex color bar including a standard color bar signal.

Since this is a basic circuit diagram, the value of the parts is subject to be altered for improvement.

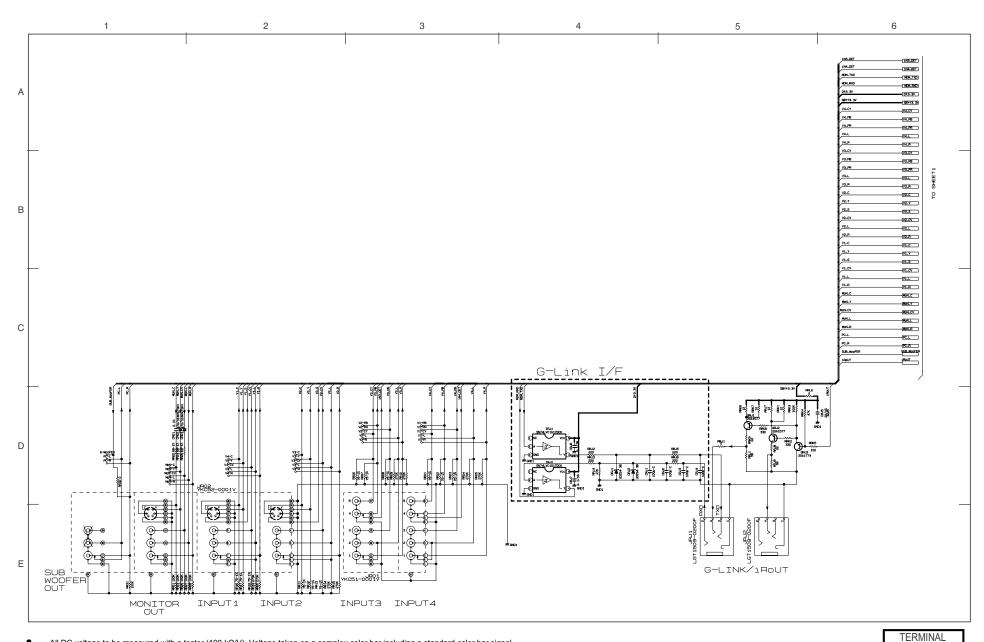
PRODUCT SAFETY NOTE: Components marked with a $ildе{\Delta}$ and shaded have special characteristics important to safety. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.



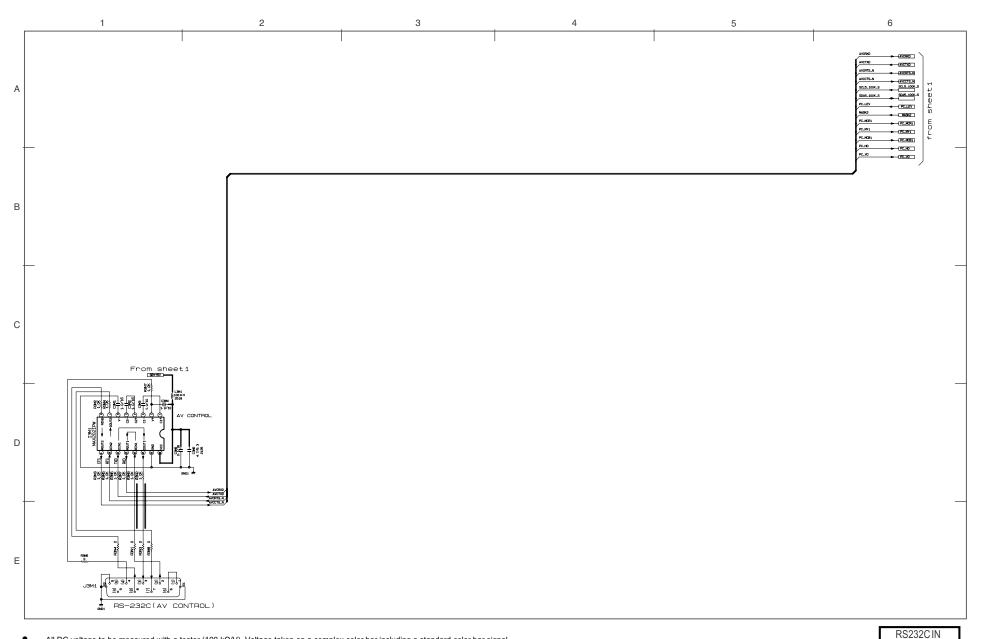
All DC voltage to be measured with a tester (100 kΩ/V). Voltage taken on a complex color bar including a standard color bar signal.

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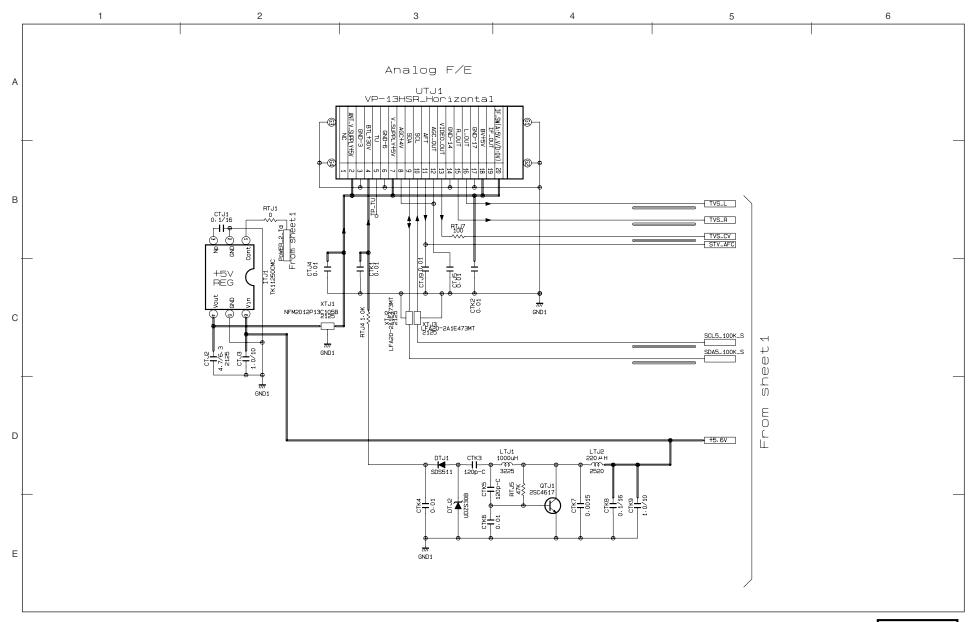
IF / SW / AMP



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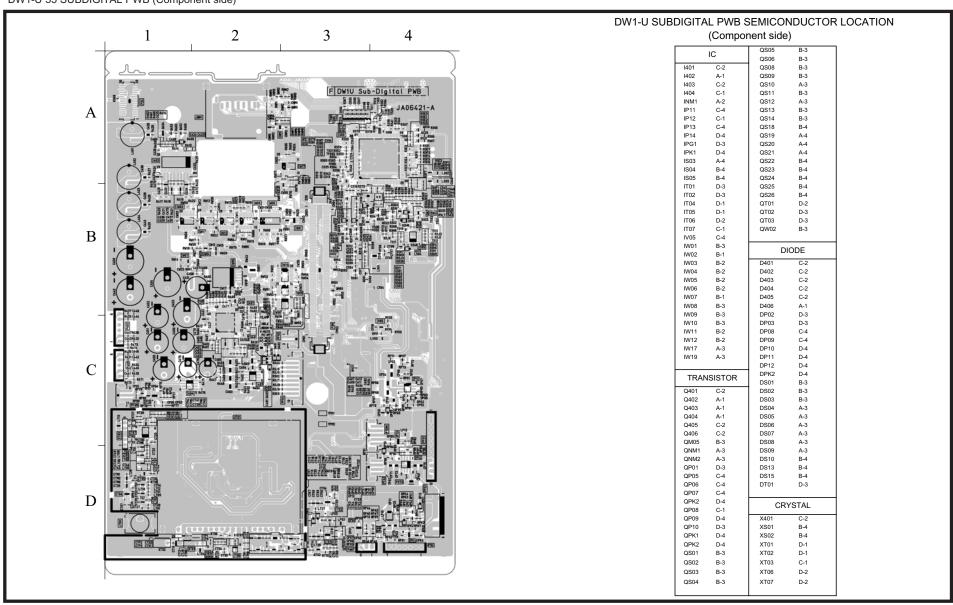


- All DC voltage to be measured with a tester (100 kΩ/V). Voltage taken on a complex color bar including a standard color bar signal.
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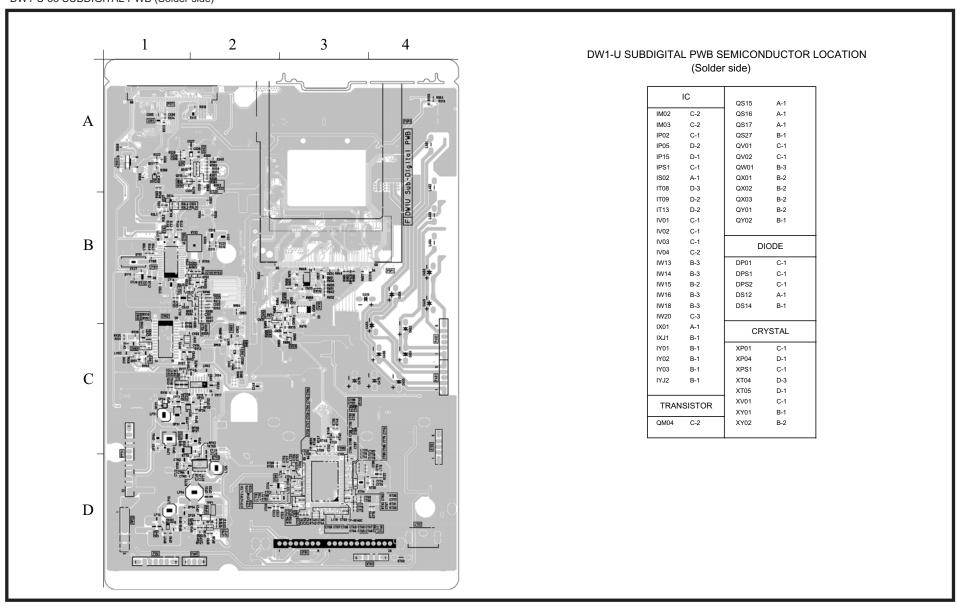


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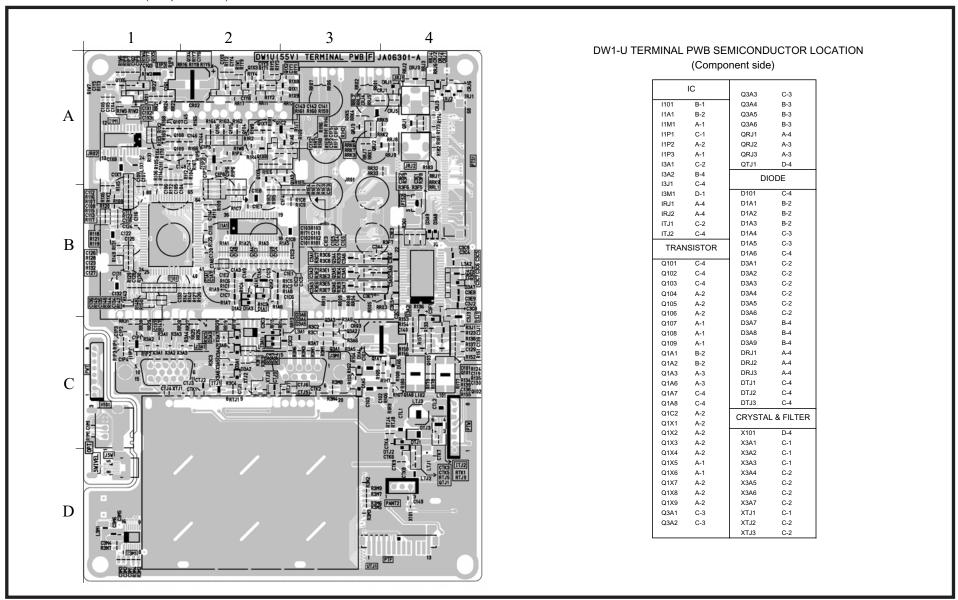
DW1-U 55 SUBDIGITAL PWB (Component side)



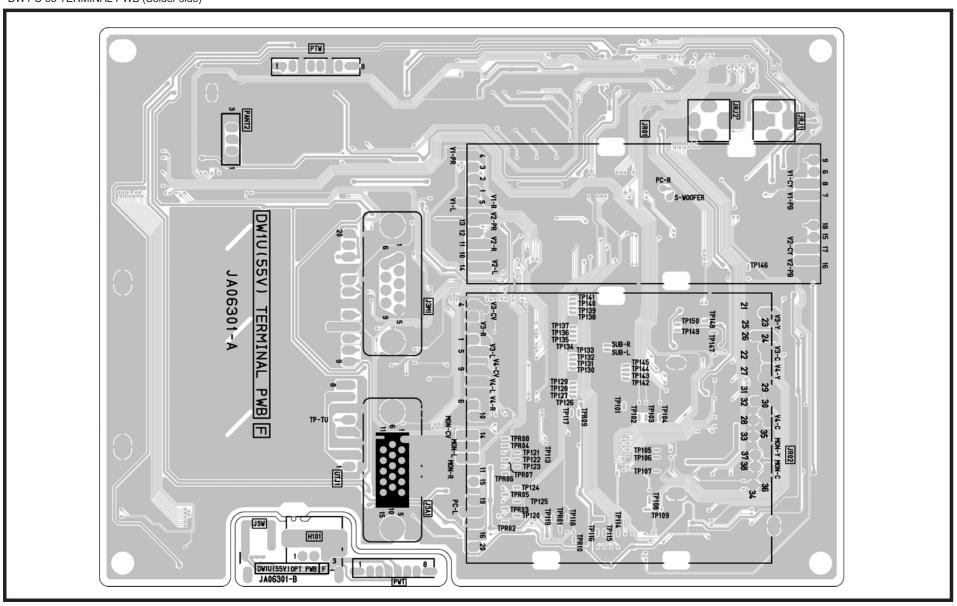
DW1-U 55 SUBDIGITAL PWB (Solder side)



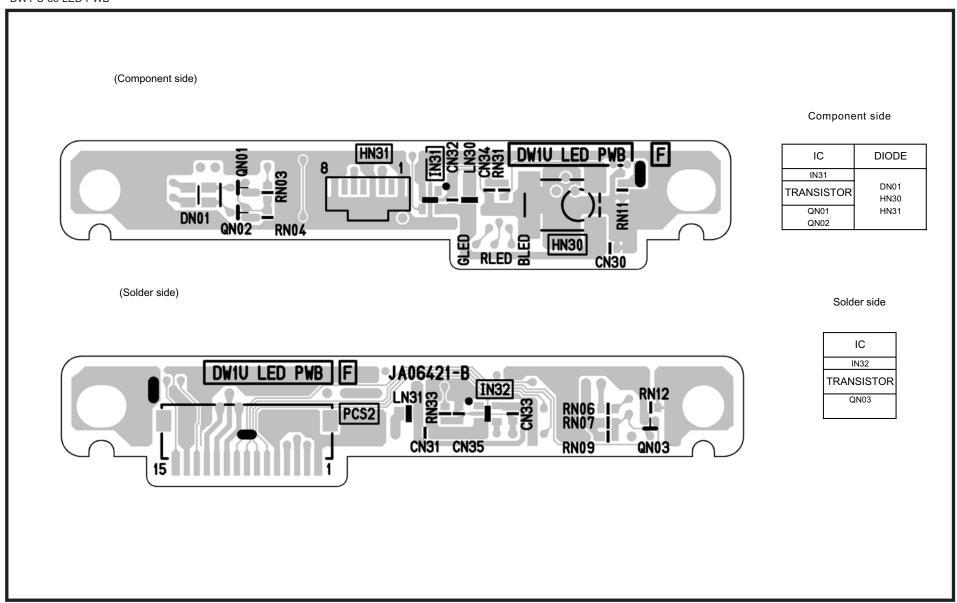
DW1-U 55 TERMINAL PWB (Component side)



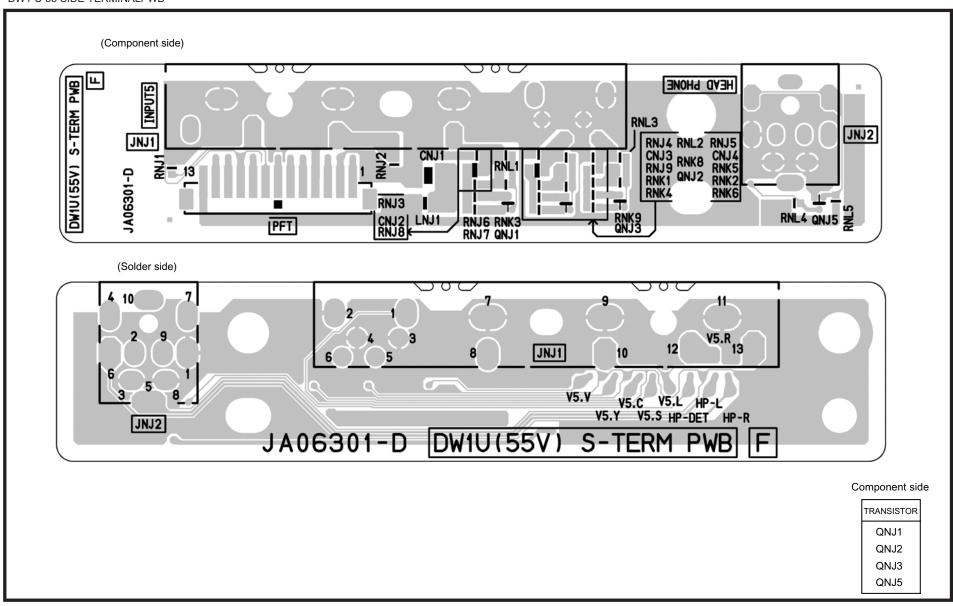
DW1-U 55 TERMINAL PWB (Solder side)



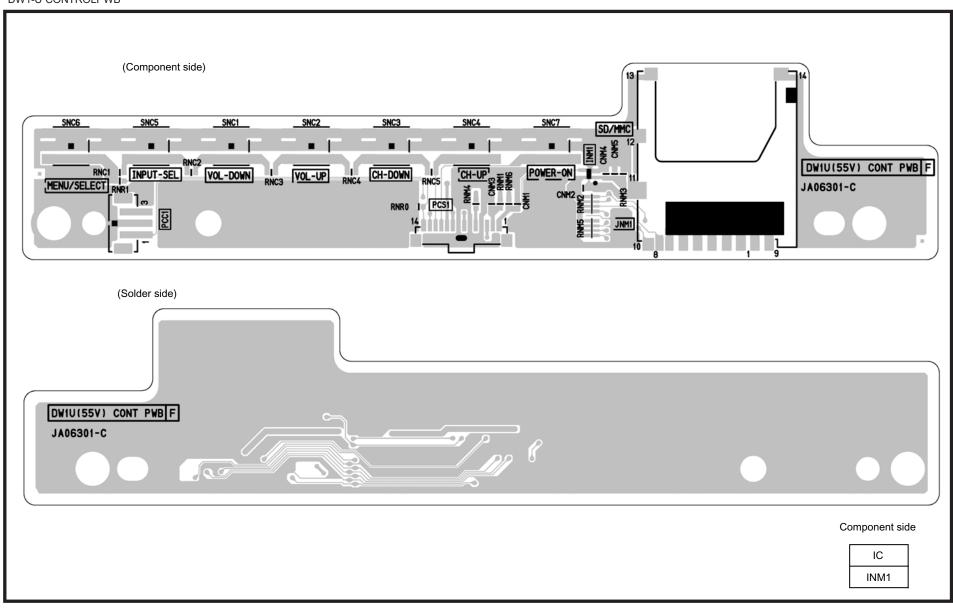
DW1-U 55 LED PWB



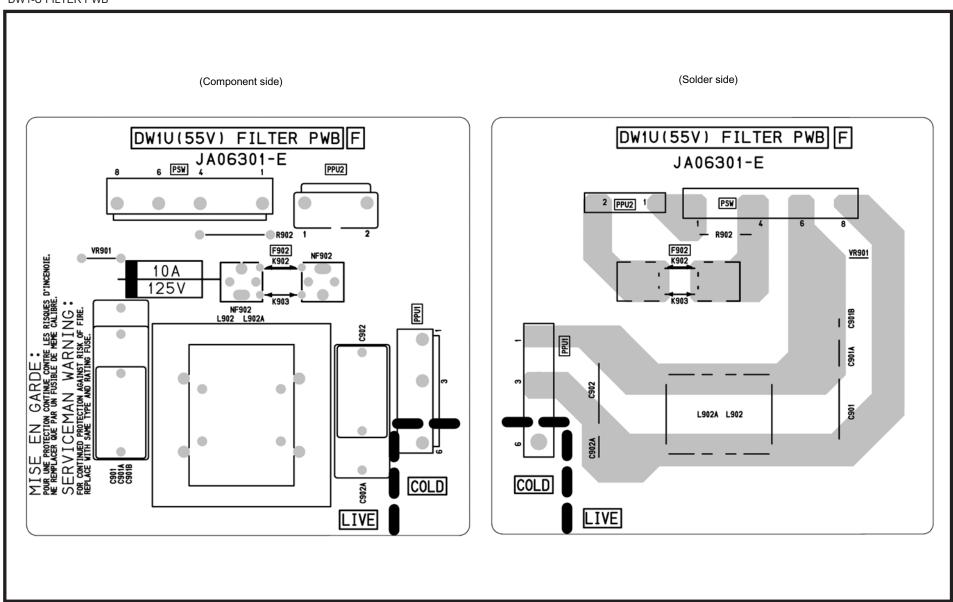
DW1-U 55 SIDE TERMINALPWB



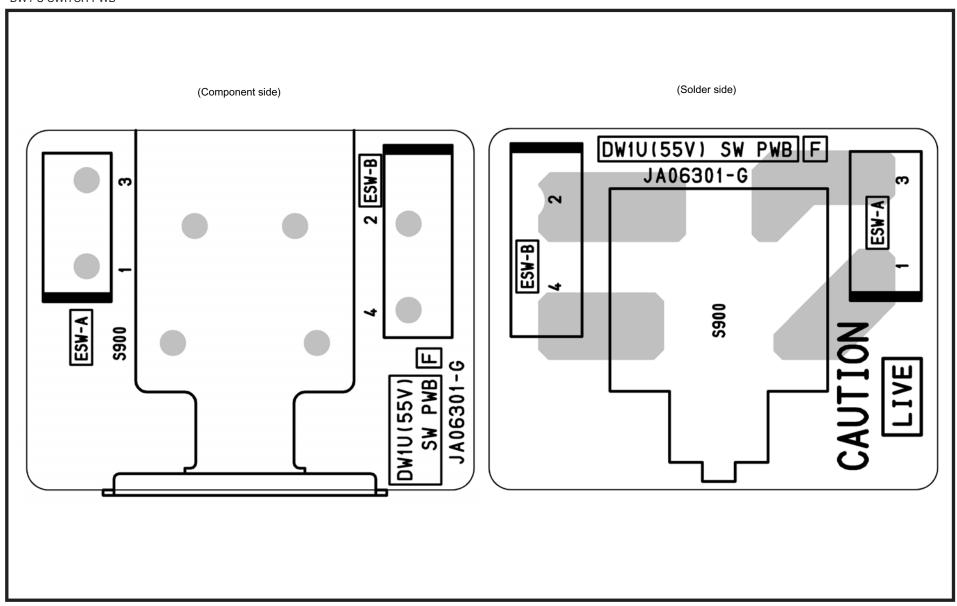
DW1-U CONTROLPWB



DW1-U FILTER PWB



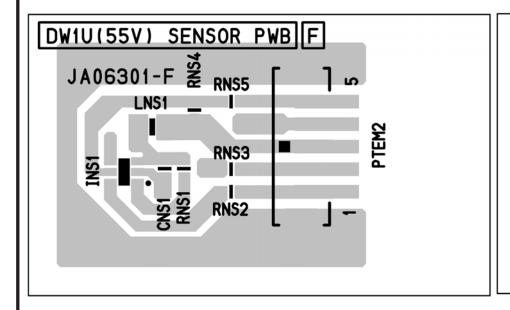
DW1-U SWITCH PWB



DW1-U SWITCH PWB

(Component side)

(Solder side)



DW1U(55V) SENSOR PWB F

JA06301-F

Component side

IC INS1

REPLACEMENT PARTS LIST

PRODUCT SERVICE NOTE: Components marked with a \triangle have special characteristics important to safety. Before replacing any of these components, read carefully, the PRODUCT SAFETY NOTICE of this Service Manual. Don't degrade the safety of the receiver through improper servicing.

ABBREVIATIONS

Capacitors:

AL: Aluminum Electrolytic

CD: Ceramic Disc EL: Electrolitic
PF: Polyester Film
PP: Polypropylene
PL: Plastic

TA: Tantalum PR: Paper TM: Trimmer MC: Mylar

DADTN

Resistors:

CF: Carbon Film CC: Carbon Composition MF: Metal Oxide VR: Variable Resistor WW: Wire Wound FR: Fuse Resistor MG: Metal Grazed

Semiconductors:

TR: Transistor DI: Diode ZD: Zener Diode VA: Varistor TH: Termistor IC: Integrated Circuit

SYMBOL	PART No.	DESCRIPTION	SYMBOL	PART No.	DESCRIPTION
			C438	AA00716R	CHIP-CERAMIC 1.0UF-25V-B-3216
		SUBDIGITAL PWB	C439	AA00716R	CHIP-CERAMIC 1.0UF-25V-B-3216
			C440	AA00716R	CHIP-CERAMIC 1.0UF-25V-B-3216
		CAPACITORS	C441	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C401	0893222R	CAP 1608CHIP10000PFKB 50V TAPE	C442	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C402	0893222R	CAP 1608CHIP10000PFKB 50V TAPE	C443	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C403	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	C444	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C404	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	C445	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C405	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	C446	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C406	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	C447	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C407	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	C448	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C408	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	C449	AL01858R	1000UF 25V ALUMINIUM ELECTROLYTIC CAPACITOR
C409	AA00968R	CCC106M06-B-20CT (10UF 6.3V 2012M)	C450	AL01858R	1000UF 25V ALUMINIUM ELECTROLYTIC CAPACITOR
C410	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)	C451	AL01857R	470UF 25V ALUMINIUM ELECTROLYTIC CAPACITOR
C411	AA00968R	CCC106M06-B-20CT (10UF 6.3V 2012M)	C452	AL01857R	470UF 25V ALUMINIUM ELECTROLYTIC CAPACITOR
C412	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	C453	AL01858R	1000UF 25V ALUMINIUM ELECTROLYTIC CAPACITOR
C413	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	C454	AL01858R	1000UF 25V ALUMINIUM ELECTROLYTIC CAPACITOR
C414	AA00754R	CAP.CHIP3216-B-47UF6.3V	C455	AL01857R	470UF 25V ALUMINIUM ELECTROLYTIC CAPACITOR
C415	AL01865R	470UF 35V ALUMINIUM ELECTROLYTIC CAPACITOR	C456	AL01857R	470UF 25V ALUMINIUM ELECTROLYTIC CAPACITOR
C417	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	C457	0893197R	CAP 1608CHIP 22000PFKB 25V TAPE
C418	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	C458	0893208R	CAP 1608CHIP 1000PFKB 50V TAPE
C419	AA00968R	CCC106M06-B-20CT (10UF 6.3V 2012M)	C459	AA00421R	CERAMIC CAPACITOR(10UF 16V)
C420	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	C460	AA00421R	CERAMIC CAPACITOR(10UF 16V)
C421	AA01132R	CERAMIC CAPACITOR(0.22UF 6.3V)	C461	0893199R	CAP 1608CHIP 220PFKB 50V TAPE
C422	AA00968R	CCC106M06-B-20CT (10UF 6.3V 2012M)	C462	0893199R	CAP 1608CHIP 220PFKB 50V TAPE
C423	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V	C463	AA00422R	CERAMIC CAPACITOR(10UF 16V)
C424	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	C464	AA00991R	CERAMIC CAPACITOR(0.1UF 50V-B)
C425	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	C465	AA00421R	CERAMIC CAPACITOR(10UF 16V)
C426	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V	C466	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
C427	AA00991R	CERAMIC CAPACITOR(0.1UF 50V-B)	C468	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C428	AA01348R	CERAMIC CAP. 1608-X5R 0.22UF 2	C470	AA01348R	CERAMIC CAP. 1608-X5R 0.22UF 2
C429	AA01348R	CERAMIC CAP. 1608-X5R 0.22UF 2	C471	AA01348R	CERAMIC CAP. 1608-X5R 0.22UF 2
C430	AA01348R	CERAMIC CAP. 1608-X5R 0.22UF 2	C472	AA01348R	CERAMIC CAP. 1608-X5R 0.22UF 2
C431	AA01348R	CERAMIC CAP. 1608-X5R 0.22UF 2	C473	AA01348R	CERAMIC CAP. 1608-X5R 0.22UF 2
C432	AA00991R	CERAMIC CAPACITOR(0.1UF 50V-B)	C474	AA01113R	CCC225K06-B-16CT
C433	0893051R	CAP2125CHIP 33000PFKB 50V TAPE	C475	0800336R	CAPELECTRO. 220UF-M(SMG) 25V
C434	0893051R	CAP2125CHIP 33000PFKB 50V TAPE	C476	0800336R	CAPELECTRO. 220UF-M(SMG) 25V
C435	AA00716R	CHIP-CERAMIC 1.0UF-25V-B-3216	C480	0893197R	CAP 1608CHIP 22000PFKB 25V TAPE
C436	0893051R	CAP2125CHIP 33000PFKB 50V TAPE	C481	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
C437	0893051R	CAP2125CHIP 33000PFKB 50V TAPE	C482*	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE

^{*} with #B*

SYMBOL	PART#	DESCRIPTION	SYMBOL	PART#	DESCRIPTION
CM01	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	CS35	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
CM02	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	CS36	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
CM03	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	CS37	AA00969R	CAP.CHIP2125-B-22UF6.3V
CM04	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	CS38	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
CM05	0893179R 0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE CAP.CHIP-CERAMIC 100000PF 16V TAPE	CS39 CS40	0893193R AA00969R	CAP CHIR2125 B 22UES 2V
CM11 CM12	0893179R 0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	CS40 CS41	0893122R	CAP.CHIP2125-B-22UF6.3V CAP 1608CHIP 47PFJCH 50V TAPE
CN30	AA01123R	CCC105K10-B-16CT	CS42	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
CN31	AA01123R	CCC105K10-B-16CT	CS44	0893122R	CAP 1608CHIP 47PFJCH 50V TAPE
CN32	AA01123R	CCC105K10-B-16CT	CS45	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
CN33	AA01123R	CCC105K10-B-16CT	CS46	0893122R	CAP 1608CHIP 47PFJCH 50V TAPE
CNM1	0893208R	CAP 1608CHIP 1000PFKB 50V TAPE	CS48	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
CNM2	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	CS49	AA00969R	CAP CHIP CERAMIC 100000PE 16V TAPE
CNM3 CNM4	0893208R 0893179R	CAP 1608CHIP 1000PFKB 50V TAPE CAP.CHIP-CERAMIC 100000PF 16V TAPE	CS50 CT01	0893179R AA01144R	CAP.CHIP-CERAMIC 100000PF 16V TAPE CERAMIC CAP. 1608-B 1.0UF 16V
CP06	AA01123R	CCC105K10-B-16CT	CT02	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
CP07	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	CT03	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
CP08	0893211R	CAP 1608CHIP 1500PFKB 50V TAPE	CT04	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
CP09	0893127R	CAP 1608CHIP 120PFJCH 50V TAPE	CT05	AA01173R	CCC1R0K50-B-32CT 1UF/50V-B-3225
CP10	0893193R	CAP 1608CHIP 10000PFKB 25V TAPE	CT06	AA00937R	CAP.CHIP-CERAMIC 10UF 10V 2012BK
CP11	0893127R	CAP 1608CHIP 120PFJCH 50V TAPE	CT07	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
CP12	0893222R	CAP 1608CHIP10000PFKB 50V TAPE	CT08	AA00937R	CAP.CHIP-CERAMIC 10UF 10V 2012BK
CP20	AA00937R	CAP.CHIP-CERAMIC 10UF 10V 2012BK	CT09	AA00937R	CAP.CHIP-CERAMIC 10UF 10V 2012BK
CP21	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	CT10	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
CP22	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE CAP.CHIP2125-B-22UF6.3V	CT11 CT12	AA01802R	CCC103K50-B-16CT MCH18 CAP.CHIP-CERAMIC 10UF 10V 2012BK
CP23 CP24	AA00969R AA00969R	CAP.CHIP2125-B-22UF6.3V	CT12 CT13	AA00937R 0893208R	CAP.CHIP-CERAMIC 100F 10V 2012BK CAP 1608CHIP 1000PFKB 50V TAPE
CP25	0893126R	CAP 1608CHIP 100PFJCH 50V TAPE	CT14	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CP26	0893208R	CAP 1608CHIP 1000PFKB 50V TAPE	CT15	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
CP27	0893193R	CAP 1608CHIP 10000PFKB 25V TAPE	CT16	AA00937R	CAP.CHIP-CERAMIC 10UF 10V 2012BK
CP53	AA01185R	CAP.CHIP-CERAMIC 22UF/16V B 32	CT17	AA00937R	CAP.CHIP-CERAMIC 10UF 10V 2012BK
CP54	AA01185R	CAP.CHIP-CERAMIC 22UF/16V B 32	CT22	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
CP55	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	CT23	0893208R	CAP 1608CHIP 1000PFKB 50V TAPE
CP56	0893222R	CAP 1608CHIP10000PFKB 50V TAPE	CT24	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)
CP57	0893222R	CAP 1608CHIP10000PFKB 50V TAPE	CT25	AA00937R	CAP.CHIP-CERAMIC 10UF 10V 2012BK
CP58 CP59	AA00699R AA00968R	CAP.CHIP-CERAMIC 10UFK 16V B 3	CT26 CT27	0893222R 0893222R	CAP 1608CHIP10000PFKB 50V TAPE CAP 1608CHIP10000PFKB 50V TAPE
CP63	AA00906R AA01123R	CCC106M06-B-20CT (10UF 6.3V 2012M) CCC105K10-B-16CT	CT28	0893222R 0893123R	CAP 1608CHIP 56PFJCH 50V TAPE
CP64	0893193R	CAP 1608CHIP 10000PFKB 25V TAPE	CT29	0893124R	CAP 1608CHIP 68PFJCH 50V TAPE
CP65	0893126R	CAP 1608CHIP 100PFJCH 50V TAPE	CT30	0893115R	CAP 1608CHIP 15PFJCH 50V TAPE
CP66	AA00969R	CAP.CHIP2125-B-22UF6.3V	CT31	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
CP73	AA00955R	CAP.CHIP-CERAMIC 2125 B 4.7UF	CT32	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CP74	AA00955R	CAP.CHIP-CERAMIC 2125 B 4.7UF	CT33	AA00937R	CAP.CHIP-CERAMIC 10UF 10V 2012BK
CP75	AA00699R	CAP.CHIP-CERAMIC 10UFK 16V B 3	CT34	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
CP79	AA00955R	CAP.CHIP-CERAMIC 2125 B 4.7UF	CT35	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
CP81 CPG1	AA01121R 0893179R	CERAMIC CAPACITOR(0.47UF 10V) CAP.CHIP-CERAMIC 100000PF 16V TAPE	CT36 CT39	0893222R 0893222R	CAP 1608CHIP10000PFKB 50V TAPE CAP 1608CHIP10000PFKB 50V TAPE
CPG1	0893179R 0893215R	CAP 1608CHIP 3300PFKB 50V TAPE	CT40	0893222R 0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CPS1	0893126R	CAP 1608CHIP 100PFJCH 50V TAPE	CT41	AA00937R	CAP.CHIP-CERAMIC 10UF 10V 2012BK
CPS2	0893213R	CAP1608CHIP 2200PFKB 50V TAPE	CT42	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
CPS3	AA00955R	CAP.CHIP-CERAMIC 2125 B 4.7UF	CT43	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CPS4	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	CT44	0893123R	CAP 1608CHIP 56PFJCH 50V TAPE
CPS5	AA00955R	CAP.CHIP-CERAMIC 2125 B 4.7UF	CT45	0893125R	CAP 1608CHIP 82PFJCH 50V TAPE
CS02	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V	CT46	0893125R	CAP 1608CHIP 82PFJCH 50V TAPE
CS04	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V	CT47	0893115R	CAP 1608CHIP 15PFJCH 50V TAPE
CS06	AA01126R	CERAMIC CAPACITOR(0.22UF 10V)	CT48	0893106R	CAP 1608CHIP 4PFCCK 50V TAPE
CS09 CS11	0893208R AA01185R	CAP 1608CHIP 1000PFKB 50V TAPE CAP.CHIP-CERAMIC 22UF/16V B 32	CT49 CT51	0893121R 0893125R	CAP 1608CHIP 39PFJCH 50V TAPE CAP 1608CHIP 82PFJCH 50V TAPE
CS11 CS12	AA01185R 0893197R	CAP.CHIP-CERAMIC 220F/16V B 32 CAP 1608CHIP 22000PFKB 25V TAPE	CT52	0893125R 0893119R	CAP 1608CHIP 82PFJCH 50V TAPE CAP 1608CHIP 33PFJCH 50V TAPE
CS12	AA01123R	CCC105K10-B-16CT	CT52	0893119R 0893106R	CAP 1608CHIP 4PFCCK 50V TAPE
CS16	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	CT54	0893124R	CAP 1608CHIP 68PFJCH 50V TAPE
CS17	0893193R	CAP 1608CHIP 10000PFKB 25V TAPE	CT58	AA00968R	CCC106M06-B-20CT (10UF 6.3V 2012M)
CS18	AA01185R	CAP.CHIP-CERAMIC 22UF/16V B 32	СТ60	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
CS19	0893193R	CAP 1608CHIP 10000PFKB 25V TAPE	CT61	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CS20	0893219R	CAP 1608CHIP 6800PFKB 50V TAPE	CT62	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
CS21	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	CT63	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
CS23	0893193R	CAP 1608CHIP 10000PFKB 25V TAPE	CT64	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
CS24	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	CT65 CT66	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
CS25 CS26	0893205R 0893193R	CAP 1608CHIP 560PFKB 50V TAPE CAP 1608CHIP 10000PFKB 25V TAPE	CT67	0893222R 0893179R	CAP 1608CHIP10000PFKB 50V TAPE CAP.CHIP-CERAMIC 100000PF 16V TAPE
CS28	0893193R 0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	CT68	0893179R 0893179R	CAP.CHIP-CERAMIC 100000FF 16V TAPE
CS31	0893193R	CAP 1608CHIP 10000PFKB 25V TAPE	CT69	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
CS32	0225037R	CAP 1608CHIP 20PFJCH 50V TAPE	CT70	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
CS33	0225037R	CAP 1608CHIP 20PFJCH 50V TAPE	CT71	0893208R	CAP 1608CHIP 1000PFKB 50V TAPE
CS34	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	CT72	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)

SYMBOL	PART#	DESCRIPTION	SYMBOL	PART#	DESCRIPTION
CT73	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)	СТН3	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC
CT74	0893208R	CAP 1608CHIP 1000PFKB 50V TAPE	CTH4	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC
CT75	0893126R	CAP 1608CHIP 100PFJCH 50V TAPE	CTH5	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC
CT76	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	СТН6		CERAMIC CAP. 1608-B 1.0UF 16V
CT77	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	CTH9		CAP.CHIP-CERAMIC 100000PF 16V TAPE
CT78	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)	CTJ2		CAP.CHIP-CERAMIC 10UF 10V 2012BK
CT79 CT80	AA01231R AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC 0.1UF 16V 1005-B CERAMIC CAPAC	CTJ3 CTJ4		CAP.CHIP2125-B-22UF6.3V CAP.CHIP2125-B-22UF6.3V
CT81	AA00968R	CCC106M06-B-20CT (10UF 6.3V 2012M)	CTJ4 CTJ5		CAP 1608CHIP 47PFJCH 50V TAPE
CT83	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	CTJ6		CAP 1608CHIP 56PFJCH 50V TAPE
CT84	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	CTJ7		CAP 1608CHIP10000PFKB 50V TAPE
CT85	0893113R	CAP 1608CHIP 10PFCCH 50V TAPE	CTJ8	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
CT86	0893113R	CAP 1608CHIP 10PFCCH 50V TAPE	CTJ9	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
CT87	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	СТК0	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
CT88	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	CTK2		CAP.CHIP-CERAMIC 100000PF 16V TAPE
CT89	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	CTK3		CAP.CHIP-CERAMIC 100000PF 16V TAPE
CT90	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	CTK4		CAP.CHIP-CERAMIC 10UF 10V 2012BK
CT91 CT92	AA01231R AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC 0.1UF 16V 1005-B CERAMIC CAPAC	CTK6 CTK7		CAP.CHIP-CERAMIC 100000PF 16V TAPE CAP.CHIP-CERAMIC 100000PF 16V TAPE
CT93	AA01231R AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	CTK8		CAP.CHIP-CERAMIC 10UF 10V 2012BK
CT94	AA01216R	CAP.CHIP-CERAMIC 1005B 1UF 6.3	СТМ0		CAP.CHIP-CERAMIC 100000PF 16V TAPE
CT95	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	CTM1		CAP.CHIP-CERAMIC 100000PF 16V TAPE
CT96	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	CTM2		CAP.CHIP-CERAMIC 10UF 10V 2012BK
CT97	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	СТМ3	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
CT98	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	CTM4		CAP.CHIP-CERAMIC 100000PF 16V TAPE
CT99	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	CTM5		CAP.CHIP-CERAMIC 100000PF 16V TAPE
CTA0	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)	CTM6		CAP.CHIP-CERAMIC 100000PF 16V TAPE
CTA1	AA01111R 0893179R	CERAMIC CAPACITOR(1.0UF 6.3V)	CTM7		CERAMIC CAPACITOR(1.0UF 6.3V)
CTA2 CTA3	0893179R 0893208R	CAP.CHIP-CERAMIC 100000PF 16V TAPE CAP 1608CHIP 1000PFKB 50V TAPE	CTM8 CTN0		0.1UF 16V 1005-B CERAMIC CAPAC CAP.CHIP-CERAMIC 100000PF 16V TAPE
CTA4	0893206R 0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	CTN0 CTN1		CAP.CHIP-CERAMIC 100000FF 16V TAPE
CTA6	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	CTN2		CAP.CHIP-CERAMIC 10UF 10V 2012BK
CTA7	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	CTN5	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CTA8	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	CTN6	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CTA9	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	CTN7	0893222R	CAP 1608CHIP10000PFKB 50V TAPE
CTC0	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	CTN8		CAP 1608CHIP 68PFJCH 50V TAPE
CTC1	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V	CTP0		CAP 1608CHIP 56PFJCH 50V TAPE
CTC2	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	CTP1	0893107R	CAP 1608CHIP 5PFCCH 50V TAPE
CTC3 CTC4	AA00968R 0893208R	CCC106M06-B-20CT (10UF 6.3V 2012M) CAP 1608CHIP 1000PFKB 50V TAPE	CTP2 CTP3		CAP 1608CHIP 56PFJCH 50V TAPE CAP 1608CHIP 5PFCCH 50V TAPE
CTC5	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	CV01		CAP.CHIP-CERAMIC 100000PF 16V TAPE
CTC6	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	CV02		CCC106M06-B-20CT (10UF 6.3V 2012M)
СТС7	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	CV03		CAP.CHIP-CERAMIC 100000PF 16V TAPE
CTC8	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	CV06	AA00969R	CAP.CHIP2125-B-22UF6.3V
СТС9	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	CV07	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
CTE0	AA00968R	CCC106M06-B-20CT (10UF 6.3V 2012M)	CV08		CAP.CHIP-CERAMIC 100000PF 16V TAPE
CTE1	AA00968R	CCC106M06-B-20CT (10UF 6.3V 2012M)	CV09		CCC106M06-B-20CT (10UF 6.3V 2012M)
CTE2	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	CV10		CCC106M06-B-20CT (10UF 6.3V 2012M)
CTE4 CTE5	0893179R AA00968R	CAP.CHIP-CERAMIC 100000PF 16V TAPE CCC106M06-B-20CT (10UF 6.3V 2012M)	CV11 CV12		CAP.CHIP-CERAMIC 100000PF 16V CAP.CHIP-CERAMIC 2125 B 4.7UF
CTE6	AA00906R AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	CV12 CV13		CCC106M06-B-20CT (10UF 6.3V 2012M)
CTE7	0893208R	CAP 1608CHIP 1000PFKB 50V TAPE	CV13		CCC106M06-B-20CT (10UF 6.3V 2012M)
CTE8	0893208R	CAP 1608CHIP 1000PFKB 50V TAPE	CV15		CAP 1608CHIP 4700PFKB 50V TAPE
CTE9	0893222R	CAP 1608CHIP10000PFKB 50V TAPE	CV16		CAP 1608CHIP 4700PFKB 50V TAPE
CTF0	0893222R	CAP 1608CHIP10000PFKB 50V TAPE	CV18		CAP.CHIP-CERAMIC 100000PF 16V TAPE
CTF1	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	CV19		CAP.CHIP-CERAMIC 100000PF 16V TAPE
CTF2	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	CW01		CCC105K10-B-16CT
CTF3	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	CW02		CCC106M06-B-20CT (10UF 6.3V 2012M)
CTF4	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)	CW03		CAP.CHIP.CERAMIC 100000PF 16V TAPE
CTF5 CTF6	AA01231R AA00968R	0.1UF 16V 1005-B CERAMIC CAPAC CCC106M06-B-20CT (10UF 6.3V 2012M)	CW08 CW09		CAP.CHIP-CERAMIC 100000PF 16V TAPE CAP.CHIP-CERAMIC 100000PF 16V TAPE
CTF7	AA00966R AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	CW09 CW11		CAP.CHIP-CERAMIC 100000PF 16V TAPE
CTG0	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	CW12		CAP.CHIP-CERAMIC 100000PF 16V TAPE
CTG1	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	CW14		CAP.CHIP-CERAMIC 100000PF 16V TAPE
CTG2	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	CW15		CAP.CHIP-CERAMIC 100000PF 16V TAPE
CTG3	AA01111R	CERAMIC CAPACITOR(1.0UF 6.3V)	CW16		CAP.CHIP-CERAMIC 10UF 10V 2012BK
CTG4	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	CW17		CAP.CHIP-CERAMIC 10UF 10V 2012BK
CTG5	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	CW18		CAP.CHIP2125-B-22UF6.3V
CTG6	AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC	CW19		CCC106M06-B-20CT (10UF 6.3V 2012M)
CTG8		0.1UF 16V 1005-B CERAMIC CAPAC	CW20 CW21		CAP.CHIP-CERAMIC 100000PF 16V TAPE
CTG8 CTG9	AA01231R AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC 0.1UF 16V 1005-B CERAMIC CAPAC	CW21 CW22		CAP.CHIP-CERAMIC 100000PF 16V TAPE CAP.CHIP-CERAMIC 100000PF 16V TAPE
CTH0	AA01231R AA01231R	0.1UF 16V 1005-B CERAMIC CAPAC 0.1UF 16V 1005-B CERAMIC CAPAC	CW22 CW23		CAP.CHIP-CERAMIC 100000FF 16V TAPE
		0.1UF 16V 1005-B CERAMIC CAPAC	CW24		CAP.CHIP-CERAMIC 100000PF 16V TAPE
CTH1	AA01231R	U. TOT TOV TOUS-B CERAWIC CAPAC			

SYMBOL	PART#	DESCRIPTION	SYMBOL	PART#	DESCRIPTION
CW26	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	IW01	CK37218R	MONO IC TK11150CSCL
CW27	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	IW02	CK08271R	DIGITAL MONOLITHIC IC (SN74LVC244PW)
CW28	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	IW03	CK08271R	DIGITAL MONOLITHIC IC (SN74LVC244PW)
CW29	0893179R 0893179R	CAP.CHIP.CERAMIC 100000PF 16V TAPE	IW04 IW05	CK38327R CK51161R	DIGITAL MONOLITHIC IC (SN74LVC1G86DCKR)
CW30 CW31	0893179R 0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE CAP.CHIP-CERAMIC 100000PF 16V TAPE	IW06	CK31161R CK38378R	PI5C32X245BEX DIGITAL MONO IC SI-3012KM
CW31 CW32	0893179R 0893179R	CAP.CHIP-CERAMIC 100000FF 16V TAPE	IW07	CK38326R	IC SN74LVC1G32DCKR
CW33	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	IW08	CK38917R	DIGITAL MONOLITHIC IC (SN74LVC32APWR)
CW34	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	IW09	CK36321R	SN74LVC125APW
CW35	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	IW10	CK08271R	DIGITAL MONOLITHIC IC (SN74LVC244PW)
CX01	0893119R	CAP 1608CHIP 33PFJCH 50V TAPE	IW11	CK08271R	DIGITAL MONOLITHIC IC (SN74LVC244PW)
CX02	0893119R	CAP 1608CHIP 33PFJCH 50V TAPE	IW12	CK08271R	DIGITAL MONOLITHIC IC (SN74LVC244PW)
CX03	0893119R	CAP 1608CHIP 33PFJCH 50V TAPE	IW13	CK08271R	DIGITAL MONOLITHIC IC (SN74LVC244PW)
CX04	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V	IW14	CK08271R	DIGITAL MONOLITHIC IC (SN74LVC244PW)
CXJ1	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V	IW15	CK38326R	IC SN74LVC1G32DCKR
CXJ2	0893126R	CAP 1608CHIP 100PFJCH 50V TAPE	IW16	CK38324R	DIGITAL MONOLITHIC IC (SN74LVC
CXJ3	0893208R	CAP 1608CHIP 1000PFKB 50V TAPE	IW17	CK08271R	DIGITAL MONOLITHIC IC (SN74LVC244PW)
CXJ4	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V	IW18	CK38323R	DIGITAL MONOLITHIC IC (SN74LVC1G08DCKR)
			IW19	CK38328R	IC SN74LVC1G125DCKR
D 404	00040045	DIODES	IW20	CK38323R	DIGITAL MONOLITHIC IC (SN74LVC1G08DCKR)
D401	CC01891R	SDS511_PF	IXJ1	CK51331R	TK11100CS
D402 D403	CC01891R CC01891R	SDS511_PF SDS511_PF	1		COILS
D403 D404	CC01891R CC01891R	SDS511_PF SDS511_PF	L401	BH01812R	COIL 10UH 2.1A
D405	CC01891R	SDS511_FF	L402	BH01812R	COIL 10UH 2.1A
D405 D406	CC01891R	SDS511_F1 SDS511_PF	L402 L403	BH01812R	COIL 10UH 2.1A
DN01	CC02061R	LIGHT EMITTING DIODE SML-020ML	L404	BH01812R	COIL 10UH 2.1A
DP02	CC02022R	ZENER.CHIP UDZSTE-1730B	LM02	BA00892R	LBC2518 CHIP COIL 47UH
DP03	CC01891R	SDS511_PF	LN30	BA10986R	LB2012 CHIP COIL 47UH 50MA
DP09	CC02002R	ZENER.CHIP UDZSTE-175.1B	LN31	BA10986R	LB2012 CHIP COIL 47UH 50MA
DP11	CC00781R	DIODE.CHIP RB160L-40(TE25)	LP02	BA02185R	HCC221J2520CT
DP12	CC01891R	SDS511_PF	LP03	BA02244R	HCC102J32CT
DPS1	CC02211R	RSX201L-30	LP04	BA02261R	7E08L TYPE POWER INDUCTOR 1.8U
DPS2	CC01641R	DIODE HSU119	LP13	BA02253R	7E06NG TYPE POWER INDUCTOR 6.8
DS01	CC01891R	SDS511_PF	LP14	BA00885R	LBC2518 CHIP COIL 4.7UH
DT01	CC01131R	ZENER.CHIP MAZS3000H	LP15	BA00885R	LBC2518 CHIP COIL 4.7UH
		MODULES	LPS1 LS01	BA02251R	7E06NG TYPE POWER INDUCTOR 4.7
HN30	CZ01271R	MODULES DEMOCON MODULE (PDM5529, H12)	LS01 LS02	BA00892R BA00892R	LBC2518 CHIP COIL 47UH LBC2518 CHIP COIL 47UH
HN30*	CE001211R	REMOCON MODULE(RPM5538-H12) SBX3050-02	LS03	BA00892R BA00892R	LBC2518 CHIP COIL 470H
HN31	CZ01261R	IRDA MODULE IC (RPM871-H12)	LS04	BA00892R	LBC2518 CHIP COIL 470H
111101	020120111	INDIVINOSOLL IO (IN MOTTITIZ)	LT01	BA00161R	COIL HCC47NK16CT-HK1608
		INTEGRATED CIRCUITS (IC's)	LT02	BA01227R	HK2125 TYPE CHIP INDUCTOR 150N
1					
1401	CK51361R	TAS5508PAG	LT03	BA00162R	CHIP COIL 56NK16CT-HK1608
1401 1402	CK51361R CK50471R	• • •		BA00162R BA00862R	CHIP COIL 56NK16CT-HK1608 2520 CHIP COIL 2.2UH
		TAS5508PAG	LT03		
1402	CK50471R	TAS5508PAG DIGITAL MONOLITHIC IC (TAS5122	LT03 LT04	BA00862R	2520 CHIP COIL 2.2UH
1402 1403	CK50471R CK07141R	TAS5508PAG DIGITAL MONOLITHIC IC (TAS5122 ANALOG MONO. IC (BA4558F-E2)	LT03 LT04 LT05	BA00862R BA00192R	2520 CHIP COIL 2.2UH CHIP COIL 47NJ16CT-HK1608
I402 I403 I404 IM02 IM03	CK50471R CK07141R CK07141R CK50961R CK38326R	TAS5508PAG DIGITAL MONOLITHIC IC (TAS5122 ANALOG MONO. IC (BA4558F-E2) ANALOG MONO. IC (BA4558F-E2)	LT03 LT04 LT05 LT06 LT07 LT08	BA00862R BA00192R BA01227R BA00162R BA01234R	2520 CHIP COIL 2.2UH CHIP COIL 47NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 150N
I402 I403 I404 IM02 IM03 IN31	CK50471R CK07141R CK07141R CK50961R CK38326R CK38324R	TAS5508PAG DIGITAL MONOLITHIC IC (TAS5122 ANALOG MONO. IC (BA4558F-E2) ANALOG MONO. IC (BA4558F-E2) SN74CB3T3306DCUR IC SN74LVC1G32DCKR DIGITAL MONOLITHIC IC (SN74LVC	LT03 LT04 LT05 LT06 LT07 LT08 LT09	BA00862R BA00192R BA01227R BA00162R BA01234R BA00189R	2520 CHIP COIL 2.2UH CHIP COIL 47NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 150N CHIP COIL 56NK16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N CHIP COIL 33NJ16CT-HK1608
I402 I403 I404 IM02 IM03 IN31 IN32	CK50471R CK07141R CK07141R CK50961R CK38326R CK38324R CK38325R	TAS5508PAG DIGITAL MONOLITHIC IC (TAS5122 ANALOG MONO. IC (BA4558F-E2) ANALOG MONO. IC (BA4558F-E2) SN74CB3T3306DCUR IC SN74LVC1G32DCKR DIGITAL MONOLITHIC IC (SN74LVC DIGITAL MONOLITHIC IC (SN74LVC	LT03 LT04 LT05 LT06 LT07 LT08 LT09 LT10	BA00862R BA00192R BA01227R BA00162R BA01234R BA00189R BA01234R	2520 CHIP COIL 2.2UH CHIP COIL 47NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 150N CHIP COIL 56NK16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N CHIP COIL 33NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N
I402 I403 I404 IM02 IM03 IN31 IN32 INM1	CK50471R CK07141R CK07141R CK50961R CK38326R CK38324R CK38325R CK50051R	TAS5508PAG DIGITAL MONOLITHIC IC (TAS5122 ANALOG MONO. IC (BA4558F-E2) ANALOG MONO. IC (BA4558F-E2) SN74CB3T3306DCUR IC SN74LVC1G32DCKR DIGITAL MONOLITHIC IC (SN74LVC DIGITAL MONOLITHIC IC (SN74LVC MAX4788EXS-T	LT03 LT04 LT05 LT06 LT07 LT08 LT09 LT10 LT11	BA00862R BA00192R BA01227R BA00162R BA01234R BA00189R BA01234R BA01225R	2520 CHIP COIL 2.2UH CHIP COIL 47NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 150N CHIP COIL 56NK16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N CHIP COIL 33NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N CHIP COIL 33NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N HK2125 TYPE CHIP INDUCTOR 100N
I402 I403 I404 IM02 IM03 IN31 IN32 INM1 IP05	CK50471R CK07141R CK07141R CK50961R CK38326R CK38324R CK38325R CK50051R CK52131R	TAS5508PAG DIGITAL MONOLITHIC IC (TAS5122 ANALOG MONO. IC (BA4558F-E2) ANALOG MONO. IC (BA4558F-E2) SN74CB3T3306DCUR IC SN74LVC1G32DCKR DIGITAL MONOLITHIC IC (SN74LVC DIGITAL MONOLITHIC IC (SN74LVC MAX4788EXS-T ANALOG MONOLITHIC IC(VT221H)	LT03 LT04 LT05 LT06 LT07 LT08 LT09 LT10 LT11 LT11	BA00862R BA00192R BA01227R BA00162R BA01234R BA00189R BA01234R BA01225R BA00191R	2520 CHIP COIL 2.2UH CHIP COIL 47NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 150N CHIP COIL 56NK16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N CHIP COIL 33NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N HK2125 TYPE CHIP INDUCTOR 100N COIL HCC39NJ16CT-HK1608
I402 I403 I404 IM02 IM03 IN31 IN32 INM1 IP05 IP11	CK50471R CK07141R CK07141R CK50961R CK38326R CK38324R CK38325R CK50051R CK50461R	TAS5508PAG DIGITAL MONOLITHIC IC (TAS5122 ANALOG MONO. IC (BA4558F-E2) ANALOG MONO. IC (BA4558F-E2) SN74CB3T3306DCUR IC SN74LVC1G32DCKR DIGITAL MONOLITHIC IC (SN74LVC DIGITAL MONOLITHIC IC (SN74LVC MAX4788EXS-T ANALOG MONOLITHIC IC(VT221H) ANALOG MONOLITHIC IC(BA6287F-	LT03 LT04 LT05 LT06 LT07 LT08 LT09 LT10 LT11 LT11 LT12 LT14	BA00862R BA00192R BA01227R BA00162R BA01234R BA00189R BA01234R BA01225R BA0191R BM10348R	2520 CHIP COIL 2.2UH CHIP COIL 47NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 150N CHIP COIL 56NK16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N CHIP COIL 33NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N HK2125 TYPE CHIP INDUCTOR 100N COIL HCC39NJ16CT-HK1608 CHIP FERRITE BEAD BLM18PG121SN
I402 I403 I404 IM02 IM03 IN31 IN32 INM1 IP05 IP11	CK50471R CK07141R CK07141R CK50961R CK38326R CK38324R CK38325R CK50051R CK50131R CK50461R CK51331R	TAS5508PAG DIGITAL MONOLITHIC IC (TAS5122 ANALOG MONO. IC (BA4558F-E2) ANALOG MONO. IC (BA4558F-E2) SN74CB3T3306DCUR IC SN74LVC1G32DCKR DIGITAL MONOLITHIC IC (SN74LVC DIGITAL MONOLITHIC IC (SN74LVC MAX4788EXS-T ANALOG MONOLITHIC IC(VT221H) ANALOG MONOLITHIC IC(BA6287F-TK11100CS	LT03 LT04 LT05 LT06 LT07 LT08 LT09 LT10 LT11 LT11 LT12 LT14 LT15	BA00862R BA00192R BA01227R BA00162R BA01234R BA00189R BA01234R BA01225R BA0191R BM10348R BM10348R	2520 CHIP COIL 2.2UH CHIP COIL 47NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 150N CHIP COIL 56NK16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N CHIP COIL 33NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N HK2125 TYPE CHIP INDUCTOR 470N HK2125 TYPE CHIP INDUCTOR 100N COIL HCC39NJ16CT-HK1608 CHIP FERRITE BEAD BLM18PG121SN CHIP FERRITE BEAD BLM18PG121SN
I402 I403 I404 IM02 IM03 IN31 IN32 INM1 IP05 IP11 IP12	CK50471R CK07141R CK07141R CK50961R CK38326R CK38324R CK38325R CK50051R CK52131R CK50461R CK51331R CK51571R	TAS5508PAG DIGITAL MONOLITHIC IC (TAS5122 ANALOG MONO. IC (BA4558F-E2) ANALOG MONO. IC (BA4558F-E2) SN74CB3T3306DCUR IC SN74LVC1G32DCKR DIGITAL MONOLITHIC IC (SN74LVC DIGITAL MONOLITHIC IC (SN74LVC MAX4788EXS-T ANALOG MONOLITHIC IC(VT221H) ANALOG MONOLITHIC IC(BA6287F-TK11100CS ANALOG MONOLITHIC IC(TK11891F	LT03 LT04 LT05 LT06 LT07 LT08 LT09 LT10 LT11 LT11 LT12 LT14 LT15 LT16	BA00862R BA00192R BA01227R BA00162R BA01234R BA01234R BA01234R BA01225R BA0125R BA0191R BM10348R BM10348R BM10348R	2520 CHIP COIL 2.2UH CHIP COIL 47NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 150N CHIP COIL 56NK16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N CHIP COIL 33NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N HK2125 TYPE CHIP INDUCTOR 470N HK2125 TYPE CHIP INDUCTOR 100N COIL HCC39NJ16CT-HK1608 CHIP FERRITE BEAD BLM18PG121SN CHIP FERRITE BEAD BLM18PG121SN CHIP FERRITE BEAD BLM18PG121SN
I402 I403 I404 IM02 IM03 IN31 IN32 INM1 IP05 IP11 IP12 IP15 IPG1	CK50471R CK07141R CK07141R CK50961R CK38326R CK38324R CK38325R CK50051R CK52131R CK50461R CK51331R CK51331R CK51571R	TAS5508PAG DIGITAL MONOLITHIC IC (TAS5122 ANALOG MONO. IC (BA4558F-E2) ANALOG MONO. IC (BA4558F-E2) SN74CB3T3306DCUR IC SN74LVC1G32DCKR DIGITAL MONOLITHIC IC (SN74LVC DIGITAL MONOLITHIC IC (SN74LVC MAX4788EXS-T ANALOG MONOLITHIC IC(VT221H) ANALOG MONOLITHIC IC(BA6287F- TK11100CS ANALOG MONOLITHIC IC(TK11891F ANALOG MONOLITHIC IC(PST9227N	LT03 LT04 LT05 LT06 LT07 LT08 LT09 LT10 LT11 LT12 LT14 LT15 LT16 LT16	BA00862R BA00192R BA01227R BA00162R BA01234R BA00189R BA01234R BA01225R BA00191R BM10348R BM10348R BM10348R BM10348R	2520 CHIP COIL 2.2UH CHIP COIL 47NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 150N CHIP COIL 56NK16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N CHIP COIL 33NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N HK2125 TYPE CHIP INDUCTOR 470N HK2125 TYPE CHIP INDUCTOR 100N COIL HCC39NJ16CT-HK1608 CHIP FERRITE BEAD BLM18PG121SN CHIP FERRITE BEAD BLM18PG121SN CHIP FERRITE BEAD BLM18PG121SN CHIP FERRITE BEAD BLM18PG121SN
I402 I403 I404 IM02 IM03 IN31 IN32 INM1 IP05 IP11 IP15 IP15 IPG1 IPS1	CK50471R CK07141R CK07141R CK50961R CK38326R CK38324R CK38325R CK50051R CK50051R CK50461R CK51331R CK51331R CK51571R CK51571R CK33543R CK52141R	TAS5508PAG DIGITAL MONOLITHIC IC (TAS5122 ANALOG MONO. IC (BA4558F-E2) ANALOG MONO. IC (BA4558F-E2) SN74CB3T3306DCUR IC SN74LVC1G32DCKR DIGITAL MONOLITHIC IC (SN74LVC DIGITAL MONOLITHIC IC (SN74LVC MAX4788EXS-T ANALOG MONOLITHIC IC(VT221H) ANALOG MONOLITHIC IC(BA6287F-TK11100CS ANALOG MONOLITHIC IC(TK11891F ANALOG MONOLITHIC IC(PST9227N ANALOG MONOLITHIC IC(SC4517AI	LT03 LT04 LT05 LT06 LT07 LT08 LT09 LT10 LT11 LT12 LT14 LT15 LT16 LT17 LT18	BA00862R BA00192R BA01227R BA00162R BA01234R BA00189R BA01234R BA01225R BA00191R BM10348R BM10348R BM10348R BM10348R BM10348R	2520 CHIP COIL 2.2UH CHIP COIL 47NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 150N CHIP COIL 56NK16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N CHIP COIL 33NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N HK2125 TYPE CHIP INDUCTOR 470N HK2125 TYPE CHIP INDUCTOR 100N COIL HCC39NJ16CT-HK1608 CHIP FERRITE BEAD BLM18PG121SN CHIP FERRITE BEAD BLM18PG121SN CHIP FERRITE BEAD BLM18PG121SN
I402 I403 I404 IM02 IM03 IN31 IN32 INM1 IP05 IP11 IP12 IP15 IPG1	CK50471R CK07141R CK07141R CK50961R CK38326R CK38324R CK38325R CK50051R CK52131R CK50461R CK51331R CK51331R CK51571R	TAS5508PAG DIGITAL MONOLITHIC IC (TAS5122 ANALOG MONO. IC (BA4558F-E2) ANALOG MONO. IC (BA4558F-E2) SN74CB3T3306DCUR IC SN74LVC1G32DCKR DIGITAL MONOLITHIC IC (SN74LVC DIGITAL MONOLITHIC IC (SN74LVC MAX4788EXS-T ANALOG MONOLITHIC IC(VT221H) ANALOG MONOLITHIC IC(BA6287F- TK11100CS ANALOG MONOLITHIC IC(TK11891F ANALOG MONOLITHIC IC(PST9227N	LT03 LT04 LT05 LT06 LT07 LT08 LT09 LT10 LT11 LT12 LT14 LT15 LT16 LT16	BA00862R BA00192R BA01227R BA00162R BA01234R BA00189R BA01234R BA01225R BA00191R BM10348R BM10348R BM10348R BM10348R	2520 CHIP COIL 2.2UH CHIP COIL 47NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 150N CHIP COIL 56NK16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N CHIP COIL 33NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N HK2125 TYPE CHIP INDUCTOR 470N HK2125 TYPE CHIP INDUCTOR 100N COIL HCC39NJ16CT-HK1608 CHIP FERRITE BEAD BLM18PG121SN
I402 I403 I404 IM02 IM03 IN31 IN32 INM1 IP05 IP11 IP12 IP15 IPG1 IPS1 IS02	CK50471R CK07141R CK07141R CK50961R CK38326R CK38324R CK38325R CK50051R CK52131R CK50461R CK51331R CK51571R CK51571R CK33543R CK52141R	TAS5508PAG DIGITAL MONOLITHIC IC (TAS5122 ANALOG MONO. IC (BA4558F-E2) ANALOG MONO. IC (BA4558F-E2) SN74CB3T3306DCUR IC SN74LVC1G32DCKR DIGITAL MONOLITHIC IC (SN74LVC DIGITAL MONOLITHIC IC (SN74LVC MAX4788EXS-T ANALOG MONOLITHIC IC(VT221H) ANALOG MONOLITHIC IC(BA6287F- TK11100CS ANALOG MONOLITHIC IC(TK11891F ANALOG MONOLITHIC IC(PST9227N ANALOG MONOLITHIC IC(SC4517AI BD37A41FVM	LT03 LT04 LT05 LT06 LT07 LT08 LT09 LT10 LT11 LT12 LT14 LT15 LT16 LT17 LT18 LT19	BA00862R BA00192R BA01227R BA00162R BA01234R BA00189R BA01234R BA01225R BA00191R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R	2520 CHIP COIL 2.2UH CHIP COIL 47NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 150N CHIP COIL 56NK16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N CHIP COIL 33NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N HK2125 TYPE CHIP INDUCTOR 470N HK2125 TYPE CHIP INDUCTOR 100N COIL HCC39NJ16CT-HK1608 CHIP FERRITE BEAD BLM18PG121SN
I402 I403 I404 IM02 IM03 IN31 IN32 INM1 IP05 IP11 IP12 IP15 IPG1 IPS1 IPS1 IS02 IS03	CK50471R CK07141R CK07141R CK50961R CK38326R CK38324R CK38325R CK50051R CK52131R CK50461R CK51331R CK51571R CK33543R CK51571R CK35141R CK51111R	TAS5508PAG DIGITAL MONOLITHIC IC (TAS5122 ANALOG MONO. IC (BA4558F-E2) ANALOG MONO. IC (BA4558F-E2) SN74CB3T3306DCUR IC SN74LVC1G32DCKR DIGITAL MONOLITHIC IC (SN74LVC DIGITAL MONOLITHIC IC (SN74LVC MAX4788EXS-T ANALOG MONOLITHIC IC(VT221H) ANALOG MONOLITHIC IC(BA6287F-TK11100CS ANALOG MONOLITHIC IC(TK11891F ANALOG MONOLITHIC IC(PST9227N ANALOG MONOLITHIC IC(SC4517AI BD37A41FVM M306H3MC-067FP	LT03 LT04 LT05 LT06 LT07 LT08 LT09 LT10 LT11 LT12 LT14 LT15 LT16 LT17 LT18 LT19 LT20	BA00862R BA00192R BA01227R BA00162R BA01234R BA00189R BA01234R BA01225R BA00191R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R	2520 CHIP COIL 2.2UH CHIP COIL 47NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 150N CHIP COIL 56NK16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N CHIP COIL 33NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N HK2125 TYPE CHIP INDUCTOR 470N HK2125 TYPE CHIP INDUCTOR 100N COIL HCC39NJ16CT-HK1608 CHIP FERRITE BEAD BLM18PG121SN
I402 I403 I404 IM02 IM03 IN31 IN32 INM1 IP05 IP11 IP12 IP15 IPG1 IPS1 IPS1 IS02 IS03 IS05	CK50471R CK07141R CK07141R CK50961R CK38326R CK38324R CK38325R CK50051R CK52131R CK51331R CK51571R CK51571R CK33543R CK52141R CK51111R CK50991U CK50951R	TAS5508PAG DIGITAL MONOLITHIC IC (TAS5122 ANALOG MONO. IC (BA4558F-E2) ANALOG MONO. IC (BA4558F-E2) SN74CB3T3306DCUR IC SN74LVC1G32DCKR DIGITAL MONOLITHIC IC (SN74LVC DIGITAL MONOLITHIC IC (SN74LVC MAX4788EXS-T ANALOG MONOLITHIC IC(VT221H) ANALOG MONOLITHIC IC(BA6287F-TK11100CS ANALOG MONOLITHIC IC(FST9227N ANALOG MONOLITHIC IC(FST9227N ANALOG MONOLITHIC IC(SC4517AI BD37A41FVM M306H3MC-067FP SN74CB3T3125PWR	LT03 LT04 LT05 LT06 LT07 LT08 LT09 LT10 LT11 LT12 LT14 LT15 LT16 LT17 LT18 LT19 LT20 LT21	BA00862R BA00192R BA01227R BA00162R BA01234R BA00189R BA01234R BA01225R BA00191R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R	2520 CHIP COIL 2.2UH CHIP COIL 47NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 150N CHIP COIL 56NK16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N CHIP COIL 33NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N HK2125 TYPE CHIP INDUCTOR 470N COIL HCC39NJ16CT-HK1608 CHIP FERRITE BEAD BLM18PG121SN
I402 I403 I404 IM02 IM03 IN31 IN32 INM1 IP05 IP11 IP12 IP15 IPG1 IPS1 IS02 IS03 IS05 IT01	CK50471R CK07141R CK07141R CK50961R CK38326R CK38324R CK38325R CK50251R CK52131R CK50461R CK51331R CK51571R CK51571R CK51571R CK51571R CK51571R CK5141R CK51111R CK50991U CK50951R	TAS5508PAG DIGITAL MONOLITHIC IC (TAS5122 ANALOG MONO. IC (BA4558F-E2) ANALOG MONO. IC (BA4558F-E2) SN74CB3T3306DCUR IC SN74LVC1G32DCKR DIGITAL MONOLITHIC IC (SN74LVC DIGITAL MONOLITHIC IC (SN74LVC MAX4788EXS-T ANALOG MONOLITHIC IC(VT221H) ANALOG MONOLITHIC IC(BA6287F-TK11100CS ANALOG MONOLITHIC IC(TK11891F ANALOG MONOLITHIC IC(FST9227N ANALOG MONOLITHIC IC(SC4517AI BD37A41FVM M306H3MC-067FP SN74CB3T3125PWR MONO IC TK11150CSCL	LT03 LT04 LT05 LT06 LT07 LT08 LT09 LT10 LT11 LT12 LT14 LT15 LT16 LT17 LT18 LT19 LT20 LT21 LT22	BA00862R BA00192R BA01227R BA00162R BA01234R BA00189R BA01234R BA01225R BA00191R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R	2520 CHIP COIL 2.2UH CHIP COIL 47NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 150N CHIP COIL 56NK16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N CHIP COIL 33NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N CHIP COIL 33NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 100N COIL HCC39NJ16CT-HK1608 CHIP FERRITE BEAD BLM18PG121SN
I402 I403 I404 IM02 IM03 IN31 IN32 IMM1 IP05 IP11 IP12 IP15 IPG1 IPS1 IS02 IS03 IS05 IT01 IT02 IT04 IT05	CK50471R CK07141R CK07141R CK50961R CK38326R CK38324R CK38325R CK50051R CK52131R CK50461R CK51331R CK51571R CK51571R CK51571R CK52141R CK51111R CK50951R CK50951R CK50951R	TAS5508PAG DIGITAL MONOLITHIC IC (TAS5122 ANALOG MONO. IC (BA4558F-E2) ANALOG MONO. IC (BA4558F-E2) SN74CB3T3306DCUR IC SN74LVC1G32DCKR DIGITAL MONOLITHIC IC (SN74LVC DIGITAL MONOLITHIC IC (SN74LVC MAX4788EXS-T ANALOG MONOLITHIC IC(VT221H) ANALOG MONOLITHIC IC(BA6287F-TK11100CS ANALOG MONOLITHIC IC(TK11891F ANALOG MONOLITHIC IC(FST9227N ANALOG MONOLITHIC IC(SC4517AI BD37A41FVM M306H3MC-067FP SN74CB3T3125PWR MONO IC TK11150CSCL IC TK11250CM	LT03 LT04 LT05 LT06 LT07 LT08 LT09 LT10 LT11 LT12 LT14 LT15 LT16 LT17 LT18 LT19 LT20 LT21 LT22 LT21 LT22 LT23 LT24 LT25	BA00862R BA00192R BA01227R BA011227R BA00162R BA01234R BA01234R BA01234R BA01225R BA00191R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R	2520 CHIP COIL 2.2UH CHIP COIL 47NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 150N CHIP COIL 56NK16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N CHIP COIL 33NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N CHIP COIL 33NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 100N COIL HCC39NJ16CT-HK1608 CHIP FERRITE BEAD BLM18PG121SN
I402 I403 I404 IM02 IM03 IN31 IN32 INM1 IP05 IP11 IP12 IP15 IPG1 IPS1 IS02 IS03 IS05 IT01 IT02 IT04 IT05 IT06	CK50471R CK07141R CK07141R CK50961R CK38326R CK38324R CK38325R CK50051R CK52131R CK50461R CK51331R CK51571R CK51571R CK51571R CK51571R CK52141R CK51111R CK50991U CK50991U CK50951R CK37218R CK37605R	TAS5508PAG DIGITAL MONOLITHIC IC (TAS5122 ANALOG MONO. IC (BA4558F-E2) ANALOG MONO. IC (BA4558F-E2) SN74CB3T3306DCUR IC SN74LVC1G32DCKR DIGITAL MONOLITHIC IC (SN74LVC DIGITAL MONOLITHIC IC (SN74LVC MAX4788EXS-T ANALOG MONOLITHIC IC(VT221H) ANALOG MONOLITHIC IC(FS0287F-TK11100CS ANALOG MONOLITHIC IC(TK11891F ANALOG MONOLITHIC IC(FS19227N ANALOG MONOLITHIC IC(SC4517AI BD37A41FVM M306H3MC-067FP SN74CB3T3125PWR MONO IC TK11150CSCL IC TK11250CM	LT03 LT04 LT05 LT06 LT07 LT08 LT09 LT10 LT11 LT12 LT14 LT15 LT16 LT17 LT18 LT19 LT20 LT21 LT22 LT21 LT22 LT23 LT24 LT25 LT26	BA00862R BA00192R BA01227R BA011227R BA00162R BA01234R BA01234R BA01234R BA01225R BA00191R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R BM10348R	2520 CHIP COIL 2.2UH CHIP COIL 47NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 150N CHIP COIL 56NK16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N CHIP COIL 33NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 470N CHIP COIL 33NJ16CT-HK1608 HK2125 TYPE CHIP INDUCTOR 100N COIL HCC39NJ16CT-HK1608 CHIP FERRITE BEAD BLM18PG121SN
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SYMBOL	PART#	DESCRIPTION	SYMBOL	PART#	DESCRIPTION
		TRANSISTORS	R429	0790043R	RES.CHIP 1/16W 2.7K OHM
Q401	CA00771R	TRS.CHIP DTC323TK	R430		RES.CHIP 1/16W 3.3 OHM
Q402	CA00981R	TRS.CHIP DTC114EE TL	R431		RES.CHIP 1/16W 3.3 OHM
Q403	CA00981R	TRS.CHIP DTC114EE TL TRS.CHIP DTC114EE TL	R432		RES.CHIP 1/16W 3.3 OHM
Q406 QM04	CA00981R CA02091R		R433 R434		RES.CHIP 1/16W 3.3 OHM RES.CHIP 1/16W 3.3 OHM
QM05	1323293R	SRC1204EF_PF TRS.CHIP 2SC4617 TL (R/S)	R434 R435		RES.CHIP 1/16W 3.3 OHM
QN01	CA02091R	SRC1204EF PF	R436		RES.CHIP 1/16W 3.3 OHM
QN02	CA02091R	SRC1204EF PF	R437		RES.CHIP 1/16W 3.3 OHM
QN03	CA02091R	SRC1204EF PF	R446		RES.CHIP 1/16W 3.3 OHM
QNM1	CA00981R	TRS.CHIP DTC114EE TL	R447		RES.CHIP 1/16W 10K OHM
QNM2	CA00981R	TRS.CHIP DTC114EE TL	R448	0790051R	RES.CHIP 1/16W 10K OHM
QP01	1323293R	TRS.CHIP 2SC4617 TL (R/S)	R449	0790051R	RES.CHIP 1/16W 10K OHM
QP05	1323293R	TRS.CHIP 2SC4617 TL (R/S)	R450	0790051R	RES.CHIP 1/16W 10K OHM
QP06	1323294R	TRS.CHIP 2SA1774 TL (R/S)	R451	0790038R	RES.CHIP 1/16W 1.2K OHM
QP07	CA02091R	SRC1204EF_PF	R452		RES.CHIP 1/16W 10K OHM
QP08	CA02091R	SRC1204EF_PF	R453		RES.CHIP 1/16W 10K OHM
QP09	1323293R	TRS.CHIP 2SC4617 TL (R/S)	R454		RES.CHIP 1/16W 1.2K OHM
QP10	1323293R	TRS.CHIP 2SC4617 TL (R/S)	R455		RES.CHIP 1/16W 1.0K OHM
QPK1	1323294R	TRS.CHIP 2SA1774 TL (R/S)	R456		RES.CHIP 1/16W 2.2K OHM
QS02	1323294R	TRS.CHIP 2SA1774 TL (R/S)	R457		RES.CHIP 1/16W 1.2K OHM
QS04 QS06	1323293R 1323294R	TRS.CHIP 2SC4617 TL (R/S) TRS.CHIP 2SA1774 TL (R/S)	R458 R460		RES.CHIP 1/16W 2.2K OHM RES.CHIP 1/16W 2.2K OHM
QS09	1323294R 1323294R	TRS.CHIP 2SA1774 TL (R/S)	R460 R461		RES.CHIP 1/16W 4.7K OHM
QS10	1323294R 1323294R	TRS.CHIP 2SA1774 TL (R/S)	R463		RES.CHIP 1/16W 4.7K OHM
QS11	CA02161R	TRS.CHIP SUT485J	R464		RES.CHIP 1/16W 10K OHM
QS12	1323293R	TRS.CHIP 2SC4617 TL (R/S)	R465		RES.CHIP 1/16W 10K OHM
QS14	1323293R	TRS.CHIP 2SC4617 TL (R/S)	R466		RES.CHIP 1/16W 1.0M OHM
QS15	CA02091R	SRC1204EF_PF	R471	0790024R	RES.CHIP 1/16W 100 OHM
QS16	CA00981R	TRS.CHIP DTC114EE TL	R472	0790024R	RES.CHIP 1/16W 100 OHM
QS18	CA00981R	TRS.CHIP DTC114EE TL	R473	0790024R	RES.CHIP 1/16W 100 OHM
QS19	CA02091R	SRC1204EF_PF	R474	0790024R	RES.CHIP 1/16W 100 OHM
QS21	CA02091R	SRC1204EF_PF	R475		RES.CHIP 1/16W 10K OHM
QS22	1323294R	TRS.CHIP 2SA1774 TL (R/S)	R476		RES.CHIP 1/16W 10K OHM
QS23	CA02091R	SRC1204EF_PF	R477		RES.CHIP 1/16W 2.2K OHM
QS24	CA02091R	SRC1204EF_PF	R479		RES.CHIP 1/16W 100 OHM
QS26	CA02091R	SRC1204EF_PF	R480		RES.CHIP 1/16W 100 OHM
QT01 QT02	CA02171R CA02171R	TRS.CHIP 2SC4082T106P TRS.CHIP 2SC4082T106P	R481 R482	0790001R 0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 CHIP RESISTOR RECJUMPER-1-16C16T1608
QT02 QT03	CA02171R CA02171R	TRS.CHIP 2SC4082T106P	R483		CHIP RESISTOR RECJUMPER-1-16C16T1608
QV01	CA02171R CA02091R	SRC1204EF PF	R485		RES.CHIP 1/16W 47 OHM
QV02	CA02142R	TRS.CHIP 2SC5343UFG PF	R486		RES.CHIP 1/16W 47 OHM
QW01	CA02171R	TRS.CHIP 2SC4082T106P	R487		RES.CHIP 1/16W 47 OHM
QW02	CA02091R	SRC1204EF_PF	R488		RES.CHIP 1/16W 47 OHM
QX01	1323294R	TRS.CHIP 2SA1774 TL (R/S)	R489	0790019R	RES.CHIP 1/16W 47 OHM
QX02	1323294R	TRS.CHIP 2SA1774 TL (R/S)	R490	0790019R	RES.CHIP 1/16W 47 OHM
QX03	1323294R	TRS.CHIP 2SA1774 TL (R/S)	R491	0790019R	RES.CHIP 1/16W 47 OHM
			R492	0790019R	RES.CHIP 1/16W 47 OHM
		RESISTORS	R493		RES.CHIP 1/16W 3.3K OHM
R401	AQ00175R	RES.CHIP 1/16W 200 OHM TAPE	R494		RES.CHIP 1/16W 3.3K OHM
	AQ00175R	RES.CHIP 1/16W 200 OHM TAPE	RM04		RES.CHIP 1/16W 1.0K OHM
	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RM09		RES.CHIP 1/16W 10K OHM
	0790001R 0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RM13 RM14		RES.CHIP 1/16W 68 OHM
	0790001R 0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 CHIP RESISTOR RECJUMPER-1-16C16T1608	RM14 RM15		CHIP RESISTOR RECJUMPER-1-16C16T1608 RES.CHIP 1/16W 4.7K OHM
	0790001R 0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 CHIP RESISTOR RECJUMPER-1-16C16T1608	RM16		RES.CHIP 1/16W 4.7K OHM RES.CHIP 1/16W 4.7K OHM
	0790001R 0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RM17		RES.CHIP 1/16W 4.7K OHM
	0790051R 0790055R	RES.CHIP 1/16W 22K OHM	RM18		RES.CHIP 1/16W 47K OHM
	0790064R	RES.CHIP 1/16W 100K OHM	RM19		RES.CHIP 1/16W 22 OHM
	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RM20		RES.CHIP 1/16W 22 OHM
	0790024R	RES.CHIP 1/16W 100 OHM	RM21		RES.CHIP 1/16W 22 OHM
R414	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RM22	0790015R	RES.CHIP 1/16W 22 OHM
R416	0790002R	RES.CHIP 1/16W 2.2 OHM	RM30	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
	AQ00511R	CHIP RESISTOR 100HM	RM31		RES.CHIP 1/16W 10K OHM
	AQ00511R	CHIP RESISTOR 100HM	RM32		CHIP RESISTOR RECJUMPER-1-16C16T1608
	AQ00511R	CHIP RESISTOR 100HM	RN03		CHIP RESISTOR RECJUMPER-1-16C16T1608
	0790002R	RES.CHIP 1/16W 2.2 OHM	RN06		RES.CHIP 1/16W 470 OHM
	0790002R	RES.CHIP 1/16W 2.2 OHM	RN07		RES.CHIP 1/16W 1.5K OHM
	AQ00511R	CHIP RESISTOR 100HM	RN09		RES.CHIP 1/16W 22K OHM
	0790002R	RES.CHIP 1/16W 2.2 OHM	RN11*		CHIP RESISTOR RECJUMPER-1-16C16T1608
	0790001R	CHIP RESISTOR RECJUMPER 1 16C16T1608	RN12*		CHIP RESISTOR RECJUMPER-1-16C16T1608
	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RN31		RES.CHIP 1/16W 100 OHM
	0790043R	RES.CHIP 1/16W 2.7K OHM	RN33		RES.CHIP 1/16W 100 OHM
	0790043R	RES.CHIP 1/16W 2.7K OHM	RNM1		CHIP RESISTOR 100KOHM
R428	0790043R	RES.CHIP 1/16W 2.7K OHM	RNM2	AQ00564R	CHIP RESISTOR 100KOHM

MAMALA	SYMBOL	PART#	DESCRIPTION	SYMBOL	PART#	DESCRIPTION
SAMP CONTROL PRESENTING #200MM PRESENT CONTROL PRESENT PRESENT CONTROL PRESENT PRESENT CONTROL PRESENT						
MANUAL 07000316 RES CHIP 116V 100 OMM						
SMAMP DOMOSING RES CHIP HINW 100 CHM	RNM5	AQ00519R	CHIP RESISTOR 470HM	RS22	0790051R	RES.CHIP 1/16W 10K OHM
SMMD 0700015F SEC CHP 119W 100 CMM	RNM7	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RS25	0790057R	RES.CHIP 1/16W 33K OHM
Seal		0790038R				
SEACH PICKE THE WAY OF MINE RESCHIP YING WITHOUT RESCHIP Y						
SPOID						
SECOLOGIC PRESCRIPTION OF OME PRESCRIP						
SPOID						
SPOTO PORGOSER SES CHIP 1/10W 47X COMM RSS O'790056R RES CHIP 1/6W 22X COMM RSS O'790056R RSS O'						
PRODUCT PROCESSED PROCES						
SP-19 A000298						
PROP						
1972 1979,00278 RES.CHEP 1/18W 126 CHM TAPE REAS 07900484 RES.CHEP 1/18W 106 CHM	RP19	AQ00528R	CHIP RESISTOR 2200HM	RS40	0790059R	RES.CHIP 1/16W 47K OHM
PR222 A00223R RES.CHEP 1/16W 1XR OMM TAPE R545 0790045R RES.CHEP 1/16W 1XR OMM TAPE R546 0790045R RES.CHEP 1/16W 1XR OMM TAPE R548 0790058R RES.CHEP 1/16W 1XR OMM TAPE R558 A005537 AMETY AVECA R558 A005537 AMETY AVECA A005537 AMET	RP20	0790051R	RES.CHIP 1/16W 10K OHM	RS41	0790055R	RES.CHIP 1/16W 22K OHM
Parce Parc	RP21	0790037R	RES.CHIP 1/16W 1.0K OHM		0790064R	RES.CHIP 1/16W 100K OHM
BR26 A000237R RES CHIP I/16W 343 CHM TAPE R\$46 0790047R RES CHIP I/16W 50K CHM R926 A000247R RES CHIP I/16W 100K CHM TAPE R\$48 0790058R RES CHIP I/16W 10K CHM R927 A00027R RES CHIP I/16W 10K CHM R\$48 0790058R RES CHIP I/16W 10K CHM R921 A00027R RES CHIP I/16W 10K CHM R\$51 0790058R RES CHIP I/16W 10K CHM R921 A00027R RES CHIP I/16W 10K CHM R\$55 0790057R RES CHIP I/16W 10K CHM R926 0790024R RES CHIP I/16W 10K OHM R\$55 A000537R ALEXTYORKED CHIP RESISTOR I.K R926 0790024R RSE CHIP I/16W 10K OHM R\$55 A000537R ALEXTYORKED CHIP RESISTOR I.K R927 0790027R RES CHIP I/16W 10K OHM R\$58 0790007R RES CHIP I/16W 10K OHM R928 A001328R RES CHIP I/16W 10K OHM R\$58 0790007R RES CHIP I/16W 10K OHM R927 179007R RES CHIP I/16W 10K OHM R\$60 0790007R RES CHIP I/16W 10K OHM R927 179007R RES C		AQ00223R	RES.CHIP 1/16W 12K OHM TAPE		0790064R	RES.CHIP 1/16W 100K OHM
RP25 O79006RA RESIGNED FITOW 100K OHM R547 O790047R RESIGNED FITOW 56K OHM RP28 A00227R RESIGNED FITOW 146K OHM TAPE R548 0790058R RESIGNED FITOW 150K OHM RP28 0790058R RESIGNED FITOW 100 OHM R554 0790028R RESIGNED FITOW 100 OHM RP66 0790024R RESIGNED FITOW 100 OHM R555 0790028R RESIGNED FITOW 100 OHM RP66 0790024R RESIGNED FITOW 100 OHM R556 0790028R RESIGNED FITOW 100 OHM RP66 0790024R RESIGNED FITOW 100 OHM R556 0790057R RESIGNED FITOW 100 OHM RP66 0790054R RESIGNED FITOW 100 OHM R556 0790057R RESIGNED FITOW 100 OHM RP68 0790037R RESIGNED FITOW 100 OHM R556 0790037R RESIGNED FITOW 100 OHM RP69 0790037R RESIGNED FITOW 100 OHM R556 07900037R RESIGNED FITOW 100 OHM R556						
RP27						
RESCRIP 1789						
RESCRIP 1789W 100 OPM						
RPS1						
RP96						
RP866						
RP66						
RPS						
RP09	RP67	0790051R	RES.CHIP 1/16W 10K OHM	RS58	0790051R	RES.CHIP 1/16W 10K OHM
RP70	RP68	AQ01938R	RES.CHIP RK73B3ATTE 1R5J	RS59	0790037R	RES.CHIP 1/16W 1.0K OHM
RP71	RP69	0790037R	RES.CHIP 1/16W 1.0K OHM		0790047R	RES.CHIP 1/16W 5.6K OHM
RP72						
RP76						
RP76						
RP77						
RP58						
RP80						
RPS1 0790047R RES.CHIP 1/16W 5.6K O.HM RS71 0790051R RES.CHIP 1/16W 10K O.HM RPA3 0790055R RES.CHIP 1/16W 22K O.HM RS74 0790057R RES.CHIP 1/16W 10K O.HM RS74 0790037R RES.CHIP 1/16W 10K O.HM RS76 0790037R RES.CHIP 1/16W 10K O.HM RS76 0790051R RES.CHIP 1/16W 10K O.HM RS83 0790045R RES.CHIP 1/16W 10K O.HM RS83 0790045R RES.CHIP 1/16W 10K O.HM RS85 0790047R CHIP RESISTOR REC.JUMPER-1-16C16T1608 RS86 0790037R RES.CHIP 1/16W 10K O.HM RS85 0790047R RES.CHIP 1/16W 10K O.HM RS85 0790047R RES.CHIP 1/16W 22K O.HM TAPE RS88 0790047R RES.CHIP 1/16W 22K O.HM TAPE RS88 0790047R RES.CHIP 1/16W 22K O.HM TAPE RS90 0790037R RES.CHIP 1/16W 1.0K O.HM RS86 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS92 0790051R RES.CHIP 1/16W 1.0K O.HM RS86 0790051R RES.CHIP 1/16W 1.0K O.HM RS86 07900047R RES.CHIP 1/16W 1.0K O.HM RS86 0790051R RES.CHIP 1/16W 1.0K O.H						
RPAA 0790055R RES.CHIP 1/16W 22K OHM RS75 0790037R RES.CHIP 1/16W 1.0K OHM RPA5 0790059R RES.CHIP 1/16W 47K OHM RS76 0790059R RES.CHIP 1/16W 100 OHM RS76 0790059R RES.CHIP 1/16W 100 OHM RS77 0790059R RES.CHIP 1/16W 100 OHM RS77 0790059R RES.CHIP 1/16W 100 OHM RS77 0790059R RES.CHIP 1/16W 100 OHM RS83 0790049R RES.CHIP 1/16W 100 OHM RS85 0790059R RES.CHIP 1/16W 1.0K OHM RS85 0790059R RES.CHIP 1/16W 1.0K OHM RS86 0790051R RES.CHIP 1/16W						
RPA5 0790059R RES.CHIP 1/16W 47K OHM RS75 0790051R RES.CHIP 1/16W 10K OHM RPA6 0790024R RES.CHIP 1/16W 10 00 OHM RS77 0790059R RES.CHIP 1/16W 17K OHM RS77 0790059R RES.CHIP 1/16W 17K OHM RS77 0790059R RES.CHIP 1/16W 17K OHM RS83 0790011R RES.CHIP 1/16W 17K OHM RS83 0790011R RES.CHIP 1/16W 10K OHM RS85 0790017R RES.CHIP 1/16W 10K OHM CHIP RESISTOR RECJUMPER-1-16C16T1608 RS86 0790037R RES.CHIP 1/16W 10K OHM CHIP RESISTOR RECJUMPER-1-16C16T1608 RS86 0790037R RES.CHIP 1/16W 10K OHM RS86 0790042R RES.CHIP 1/16W 10K OHM RS86 0790037R RES.CHIP 1/16W 10K OHM RS86 0790037R RES.CHIP 1/16W 10K OHM RS96 0790037R <t< td=""><td>RPA3</td><td>0790055R</td><td>RES.CHIP 1/16W 22K OHM</td><td>RS73</td><td>AQ00524R</td><td>CHIP RESISTOR 1000HM</td></t<>	RPA3	0790055R	RES.CHIP 1/16W 22K OHM	RS73	AQ00524R	CHIP RESISTOR 1000HM
RPA6 0790024R RES.CHIP 1/16W 100 OHM RS77 0790059R RES.CHIP 1/16W 47K OHM RS77 0790059R RES.CHIP 1/16W 47K OHM RS83 0790024R RES.CHIP 1/16W 100 OHM CHIP RESISTOR RECJUMPER-1-16C16T1608 RS86 0790037R RES.CHIP 1/16W 100 OHM RS86 0790037R RES.CHIP 1/16W 100 OHM RS86 0790037R RES.CHIP 1/16W 1.0K OHM RS96 0790037R RES.CHIP 1/16W 2.2K OHM APPE RS88 0790037R RES.CHIP 1/16W 2.2K OHM RS96 0790037R RES.CHIP 1/16W 1.0K OHM RS96 0790001R RS91 0790001R RS91 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS92 0790051R RES.CHIP 1/16W 1.0K OHM RS96 0790001R RS96 079	RPA4	0790055R	RES.CHIP 1/16W 22K OHM	RS74	0790037R	RES.CHIP 1/16W 1.0K OHM
RPA7 0790059R RES.CHIP 1/16W 47K OHM RS77 0790059R RES.CHIP 1/16W 47K OHM RS83 0790024R RES.CHIP 1/16W 100 OHM RS83 0790024R RES.CHIP 1/16W 100 OHM RES.CHIP 1/16W 100 OHM RES.CHIP 1/16W 100 OHM RS85 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS86 0790037R RES.CHIP 1/16W 2LK OHM RS96 0790037R RES.CHIP 1/16W 2LK OHM RES.CHIP 1/16W 1LK OHM	RPA5	0790059R	RES.CHIP 1/16W 47K OHM	RS75	0790051R	RES.CHIP 1/16W 10K OHM
RPA8 0790011R RES.CHIP 1/16W 10 OHM RS83 0790024R RES.CHIP 1/16W 100 OHM RPA9 0790045R RES.CHIP 1/16W 3.9K OHM RS86 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RPC5 AQ00245R RES.CHIP 1/16W 82K OHM TAPE RS88 0790042R RES.CHIP 1/16W 1.2K OHM RPC6 AQ00198R RES.CHIP 1/16W 1.5K OHM TAPE RS90 0790037R RES.CHIP 1/16W 1.0K OHM RPC7 AQ00212R RES.CHIP 1/16W 1.1K OHM TAPE RS91 0790037R RES.CHIP 1/16W 1.0K OHM RPE1 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS92 0790037R RES.CHIP 1/16W 10K OHM RPG1 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS94 0790037R RES.CHIP 1/16W 10K OHM RPG2 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS97 0790037R RES.CHIP 1/16W 10K OHM RPK1 0790043R RES.CHIP 1/16W 2.7K OHM RS98 0790051R RES.CHIP 1/16W 10K OHM RPK2 0790051R RES.CHIP 1/16W 10K OHM RSA6 0790051R RES.CHIP 1/16W 10K OHM			RES.CHIP 1/16W 100 OHM			CHIP RESISTOR RECJUMPER-1-16C16T1608
RPA9 0790045R RES.CHIP 1/16W 3.9K OHM RS85 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RPC1 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS86 0790037R RES.CHIP 1/16W 1.0K OHM RPC5 AQ00219R RES.CHIP 1/16W 1.5K OHM TAPE RS90 0790037R RES.CHIP 1/16W 1.0K OHM RPC6 AQ00198R RES.CHIP 1/16W 1.5K OHM TAPE RS90 0790037R RES.CHIP 1/16W 1.0K OHM RPC7 AQ00212R RES.CHIP 1/16W 1.7K OHM TAPE RS91 0790037R RES.CHIP 1/16W 1.0K OHM RPC1 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS92 0790037R RES.CHIP 1/16W 1.0K OHM RPC2 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS94 0790037R RES.CHIP 1/16W 1.0K OHM RPC3 0790043R RES.CHIP 1/16W 1/16W 4.7K OHM RS98 0790051R RES.CHIP 1/16W 1.0K OHM RPK1 0790043R RES.CHIP 1/16W 2.7K OHM RSA4 0790051R RES.CHIP 1/16W 1.0K OHM RPK3 0790051R RES.CHIP 1/16W 1.0K OHM RSA5 0790051R RES.CHIP 1/16W 1.0K OHM						
RPC1 079001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS88 0790037R RES.CHIP 1/16W 1.0K OHM RPC5 AQ00245R RES.CHIP 1/16W 82K OHM TAPE RS88 0790042R RES.CHIP 1/16W 1.0K OHM RPC6 AQ00188R RES.CHIP 1/16W 1.5K OHM TAPE RS90 0790037R RES.CHIP 1/16W 1.0K OHM RPC7 AQ00212R RES.CHIP 1/16W 4.7K OHM TAPE RS91 0790037R RES.CHIP 1/16W 1.0K OHM RPC1 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS92 0790051R RES.CHIP 1/16W 1.0K OHM RPC1 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS94 0790037R RES.CHIP 1/16W 1.0K OHM RPC2 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS94 0790037R RES.CHIP 1/16W 1.0K OHM RPC2 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS94 0790037R RES.CHIP 1/16W 1.0K OHM RPC2 0790001R RES.CHIP 1/16W 1.7K OHM RS98 0790051R RES.CHIP 1/16W 1.0K OHM RPC3 0790043R RES.CHIP 1/16W 2.7K OHM RS98 0790051R RES.CHIP 1/16W 1.0K OHM RPK1 0790043R RES.CHIP 1/16W 1.7K OHM RSA4 0790051R RES.CHIP 1/16W 1.0K OHM RPK2 0790051R RES.CHIP 1/16W 1.0K OHM RSA4 0790051R RES.CHIP 1/16W 1.0K OHM RSA5 0790057R RES.CHIP 1/16W 1.0K OHM RPK3 0790057R RES.CHIP 1/16W 1.0K OHM RSA6 0790057R RES.CHIP 1/16W 1						
RPC5 AQ00245R RES.CHIP 1/16W 82K OHM TAPE RS88 0790042R RES.CHIP 1/16W 2.2K OHM RPC6 AQ00198R RES.CHIP 1/16W 1.5K OHM TAPE RS90 0790037R RES.CHIP 1/16W 1.0K OHM RPC7 AQ00212R RES.CHIP 1/16W 4.7K OHM TAPE RS91 0790037R RES.CHIP 1/16W 1.0K OHM RPE1 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS92 0790051R RES.CHIP 1/16W 1.0K OHM RPG1 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS94 0790037R RES.CHIP 1/16W 1.0K OHM RPG2 0790046R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS94 0790051R RES.CHIP 1/16W 1.0K OHM RPG3 0790046R RES.CHIP 1/16W 4.7K OHM RS98 0790051R RES.CHIP 1/16W 10K OHM RPK1 0790043R RES.CHIP 1/16W 2.7K OHM RSA4 0790051R RES.CHIP 1/16W 10K OHM RPK3 0790055R RES.CHIP 1/16W 10K OHM RSA5 0790051R RES.CHIP 1/16W 10K OHM RPK4 0790051R RES.CHIP 1/16W 10K OHM RSA7 AQ00524R CHIP RESISTOR RECJUMPER-1-16C16T1608 RSA8						
RPC6 AQ00198R RES.CHIP 1/16W 1.5K OHM TAPE RS90 0790037R RES.CHIP 1/16W 1.0K OHM RPC7 AQ00212R RES.CHIP 1/16W 4.7K OHM TAPE RS91 0790037R RES.CHIP 1/16W 1.0K OHM RPE1 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS92 0790037R RES.CHIP 1/16W 10K OHM RPG2 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS97 0790037R RES.CHIP 1/16W 1.0K OHM RPG3 0790046R RES.CHIP 1/16W 4.7K OHM RS98 0790051R RES.CHIP 1/16W 1.0K OHM RPK1 0790043R RES.CHIP 1/16W 1.0K OHM RSA4 0790051R RES.CHIP 1/16W 10K OHM RPK2 0790051R RES.CHIP 1/16W 10K OHM RSA5 0790037R RES.CHIP 1/16W 1.0K OHM RPK4 0790051R RES.CHIP 1/16W 10K OHM RSA6 0790051R RES.CHIP 1/16W 1.0K OHM RPK4 0790051R RES.CHIP 1/16W 10K OHM RSA6 0790051R RES.CHIP 1/16W 1.0K OHM RPK9 079001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RSA8 0790037R RES.CHIP 1/16W 1.0K OHM RPS1						
RPC7 AQ00212R RES.CHIP 1/16W 4.7K OHM TAPE RS91 0790037R RES.CHIP 1/16W 1.0K OHM RPE1 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS92 0790051R RES.CHIP 1/16W 1.0K OHM RPG1 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS94 0790037R RES.CHIP 1/16W 1.0K OHM RPG2 0790046R RES.CHIP 1/16W 4.7K OHM RS98 0790051R RES.CHIP 1/16W 1.0K OHM RPK1 0790043R RES.CHIP 1/16W 2.7K OHM RSA4 0790051R RES.CHIP 1/16W 10K OHM RPK2 0790051R RES.CHIP 1/16W 2.7K OHM RSA4 0790051R RES.CHIP 1/16W 10K OHM RPK3 0790055R RES.CHIP 1/16W 10K OHM RSA6 0790051R RES.CHIP 1/16W 10K OHM RPK4 0790051R RES.CHIP 1/16W 10K OHM RSA7 AQ00524R CHIP RESISTOR 1000HM RPS4 0790051R RES.CHIP 1/16W 10K OHM RSA8 0790051R RES.CHIP 1/16W 10K OHM RPS4 0790051R RES.CHIP 1/16W 10K OHM RSA9 0790037R RES.CHIP 1/16W 10K OHM RPS2 0790051R <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
RPE1 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS92 0790051R RES.CHIP 1/16W 10K OHM RPG1 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS94 0790037R RES.CHIP 1/16W 1.0K OHM RPG2 079001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS97 0790037R RES.CHIP 1/16W 1.0K OHM RPG3 0790048R RES.CHIP 1/16W 2.7K OHM RS98 0790051R RES.CHIP 1/16W 10K OHM RPK1 0790051R RES.CHIP 1/16W 10K OHM RSA4 0790051R RES.CHIP 1/16W 10K OHM RPK2 0790051R RES.CHIP 1/16W 10K OHM RSA6 0790037R RES.CHIP 1/16W 10K OHM RPK4 0790051R RES.CHIP 1/16W 10K OHM RSA6 0790051R RES.CHIP 1/16W 10K OHM RPK4 0790051R RES.CHIP 1/16W 10K OHM RSA6 0790051R RES.CHIP 1/16W 10K OHM RPK4 0790037R RES.CHIP 1/16W 10K OHM RSA7 AQ00524R CHIP RESISTOR RECJUMPER-1-16C16T1608 RSA8 0790037R RES.CHIP 1/16W 1.0K OHM RPS2 0790037R RES.CHIP 1/16W 10K OHM RSC1 0790037R <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
RPG1 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS94 0790037R RES.CHIP 1/16W 1.0K OHM RPG2 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS97 0790037R RES.CHIP 1/16W 1.0K OHM RPG3 0790046R RES.CHIP 1/16W 4.7K OHM RS98 0790051R RES.CHIP 1/16W 10K OHM RPK1 0790051R RES.CHIP 1/16W 10K OHM RSA4 0790051R RES.CHIP 1/16W 10K OHM RPK3 0790051R RES.CHIP 1/16W 10K OHM RSA5 0790037R RES.CHIP 1/16W 1.0K OHM RPK4 0790051R RES.CHIP 1/16W 10K OHM RSA6 0790051R RES.CHIP 1/16W 1.0K OHM RPK4 0790051R RES.CHIP 1/16W 1.0K OHM RSA6 0790051R RES.CHIP 1/16W 1.0K OHM RPK9 0790037R RES.CHIP 1/16W 1.0K OHM RSA8 0790051R RES.CHIP 1/16W 1.0K OHM RPS1 0790037R RES.CHIP 1/16W 1.0K OHM RSA9 0790037R RES.CHIP 1/16W 1.0K OHM RPS2 0790051R RES.CHIP 1/16W 1.0K OHM RSC1 0790037R RES.CHIP 1/16W 1.0K OHM RPS3 AQ00236R </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
RPG2 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RS97 0790037R RES.CHIP 1/16W 1.0K OHM RPG3 0790048R RES.CHIP 1/16W 4.7K OHM RS98 0790051R RES.CHIP 1/16W 10K OHM RPK1 0790051R RES.CHIP 1/16W 10K OHM RSA5 0790051R RES.CHIP 1/16W 10K OHM RPK3 0790051R RES.CHIP 1/16W 10K OHM RSA6 0790051R RES.CHIP 1/16W 10K OHM RPK4 0790051R RES.CHIP 1/16W 10K OHM RSA6 0790051R RES.CHIP 1/16W 10K OHM RPK4 0790051R RES.CHIP 1/16W 10K OHM RSA7 AQ00524R CHIP RESISTOR 1000HM RPK9 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RSA8 0790051R RES.CHIP 1/16W 10K OHM RPS1 0790037R RES.CHIP 1/16W 1.0K OHM RSC1 0790037R RES.CHIP 1/16W 1.0K OHM RPS3 0790051R RES.CHIP 1/16W 10K OHM RSC1 0790037R RES.CHIP 1/16W 1.0K OHM RPS4 AQ00223R RES.CHIP 1/16W 39K OHM TAPE RSC3 0790051R RES.CHIP 1/16W 10K OHM RPS4 AQ0023R						
RPK1 0790043R RES.CHIP 1/16W 2.7K OHM RSA4 0790051R RES.CHIP 1/16W 10K OHM RPK2 0790051R RES.CHIP 1/16W 10K OHM RSA5 0790037R RES.CHIP 1/16W 10K OHM RPK3 0790051R RES.CHIP 1/16W 22K OHM RSA6 0790051R RES.CHIP 1/16W 10K OHM RPK4 0790051R RES.CHIP 1/16W 10K OHM RSA7 AQ00524R CHIP RESISTOR 1000HM RPK9 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RSA8 0790051R RES.CHIP 1/16W 10K OHM RPS1 0790037R RES.CHIP 1/16W 1.0K OHM RSA9 0790037R RES.CHIP 1/16W 1.0K OHM RPS2 0790051R RES.CHIP 1/16W 10K OHM RSC1 0790037R RES.CHIP 1/16W 1.0K OHM RPS3 AQ00236R RES.CHIP 1/16W 39K OHM TAPE RSC3 0790051R RES.CHIP 1/16W 10K OHM RPS4 AQ00223R RES.CHIP 1/16W 10X OHM RSC6 0790037R RES.CHIP 1/16W 10K OHM RS01 0790024R RES.CHIP 1/16W 100 OHM RSC7 0790051R RES.CHIP 1/16W 10K OHM RS04 0790024R RES.						
RPK2 0790051R RES.CHIP 1/16W 10K OHM RSA5 0790037R RES.CHIP 1/16W 1.0K OHM RPK3 0790055R RES.CHIP 1/16W 22K OHM RSA6 0790051R RES.CHIP 1/16W 10K OHM RPK4 0790051R RES.CHIP 1/16W 10K OHM RSA7 AQ00524R CHIP RESISTOR 1000HM RPK9 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RSA8 0790051R RES.CHIP 1/16W 10K OHM RPS1 0790037R RES.CHIP 1/16W 1.0K OHM RSA9 0790037R RES.CHIP 1/16W 1.0K OHM RPS2 0790051R RES.CHIP 1/16W 10K OHM RSC1 0790037R RES.CHIP 1/16W 1.0K OHM RPS3 AQ00236R RES.CHIP 1/16W 39K OHM TAPE RSC3 0790051R RES.CHIP 1/16W 10K OHM RPS4 AQ00223R RES.CHIP 1/16W 12K OHM TAPE RSC4 0790051R RES.CHIP 1/16W 10K OHM RPX8 0790001R CHIP RESISTOR RECJUMPER-1-16C16T1608 RSC6 0790051R RES.CHIP 1/16W 1.0K OHM RS01 0790024R RES.CHIP 1/16W 100 OHM RSC7 0790051R RES.CHIP 1/16W 1.0K OHM RS04 0790046R<	RPG3	0790046R	RES.CHIP 1/16W 4.7K OHM	RS98	0790051R	RES.CHIP 1/16W 10K OHM
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RS10 0790059R RES.CHIP 1/16W 47K OHM RS12 0790024R RES.CHIP 1/16W 100 OHM RSE5 AQ00524R CHIP RESISTOR 100OHM CHIP RESISTOR 100OHM RS14 0790061R RES.CHIP 1/16W 56K OHM RSE6 0196075R RES 1608 CHIP 1/16W 2.0KJ TAPE RS16 0790044R RES.CHIP 1/16W 3.3K OHM RSE7 0790051R RES.CHIP 1/16W 1.0K OHM RS18 0790037R RES.CHIP 1/16W 1.0K OHM RSE9 AQ00551R CHIP RESISTOR 10KOHM			RES.CHIP 1/16W 39K OHM			RES.CHIP 1/16W 100 OHM
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RS18 0790037R RES.CHIP 1/16W 1.0K OHM RSE9 AQ00551R CHIP RESISTOR 10KOHM						
	RS19	0790037R 0790024R	RES.CHIP 1/16W 100 OHM	RSF0	AQ00331R AQ00471R	RESCHIP 1/16W 10K-J (2 UNIT)

SYMBOL	PART#	DESCRIPTION	SYMBOL	PART#	DESCRIPTION
RSF1	0196075R	RES 1608 CHIP 1/16W 2.0KJ TAPE	RT66	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RSF2	0790059R	RES.CHIP 1/16W 47K OHM	RT69	0790051R	RES.CHIP 1/16W 10K OHM
RSF3	0790051R	RES.CHIP 1/16W 10K OHM	RT70	0790051R	RES.CHIP 1/16W 10K OHM
RSF5	0790051R	RES.CHIP 1/16W 10K OHM	RT71	AQ00261R	RES.CHIP 1/16W 330K OHM TAPE
RSF7	0790059R	RES.CHIP 1/16W 47K OHM	RT72	AQ00258R	RES.CHIP 1/16W 270K OHM TAPE
RSF8	0790059R	RES.CHIP 1/16W 47K OHM	RT73 RT74	0790043R	RES.CHIP 1/16W 2.7K OHM
RSF9 RSG0	0790059R 0790051R	RES.CHIP 1/16W 47K OHM RES.CHIP 1/16W 10K OHM	RT75	0790043R 0790019R	RES.CHIP 1/16W 2.7K OHM RES.CHIP 1/16W 47 OHM
RSG1	0790051R 0790051R	RES.CHIP 1/16W 10K OHM	RT76	0790019R 0790019R	RES.CHIP 1/16W 47 OHM
RSG3	0790051R	RES.CHIP 1/16W 10K OHM	RV01	0790024R	RES.CHIP 1/16W 100 OHM
RSG4	0790051R	RES.CHIP 1/16W 10K OHM	RV02	0790024R	RES.CHIP 1/16W 100 OHM
RSG5	0790051R	RES.CHIP 1/16W 10K OHM	RV03	0790024R	RES.CHIP 1/16W 100 OHM
RSG6	0790051R	RES.CHIP 1/16W 10K OHM	RV04	0790051R	RES.CHIP 1/16W 10K OHM
RSG7	0790051R	RES.CHIP 1/16W 10K OHM	RV06	0790024R	RES.CHIP 1/16W 100 OHM
RSG8	0790024R	RES.CHIP 1/16W 100 OHM	RV07	0790047R	RES.CHIP 1/16W 5.6K OHM
RSG9	0790024R	RES.CHIP 1/16W 100 OHM	RV08	0790024R	RES.CHIP 1/16W 100 OHM
RSH0	0790024R	RES.CHIP 1/16W 100 OHM	RV09	0790051R	RES.CHIP 1/16W 10K OHM
RSH1 RSH3	0790037R 0790037R	RES.CHIP 1/16W 1.0K OHM RES.CHIP 1/16W 1.0K OHM	RV10 RV11	0790037R 0790037R	RES.CHIP 1/16W 1.0K OHM RES.CHIP 1/16W 1.0K OHM
RSH4	0790037R 0790024R	RES.CHIP 1/16W 1.0K OHM	RV11	0790037R 0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RSH5	0790024R	RES.CHIP 1/16W 100 OHM	RV13	0790077R	RES.CHIP 1/16W 1.0M OHM
RSH6	0790037R	RES.CHIP 1/16W 1.0K OHM	RV14	0790051R	RES.CHIP 1/16W 10K OHM
RSH7	0790037R	RES.CHIP 1/16W 1.0K OHM	RV15	0790051R	RES.CHIP 1/16W 10K OHM
RSJ3	0790051R	RES.CHIP 1/16W 10K OHM	RV16	AQ00185R	RES.CHIP 1/16W 470 OHM TAPE
RSK1	0790051R	RES.CHIP 1/16W 10K OHM	RV17	AQ00185R	RES.CHIP 1/16W 470 OHM TAPE
RSK3	0790051R	RES.CHIP 1/16W 10K OHM	RV21	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RSK4	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RV24	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RSK5	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RV25	0790047R	RES.CHIP 1/16W 5.6K OHM
RSK8	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RV26	0790047R	RES.CHIP 1/16W 5.6K OHM RES.CHIP 1/16W 120 OHM
RT01 RT02	0790001R 0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 CHIP RESISTOR RECJUMPER-1-16C16T1608	RV27 RV28	0790025R 0790019R	RES.CHIP 1/16W 47 OHM
RT04	0790051R 0790052R	RES.CHIP 1/16W 12K OHM	RW01	AQ00519R	CHIP RESISTOR 470HM
RT05	0790052R	RES.CHIP 1/16W 12K OHM	RW02	AQ00519R	CHIP RESISTOR 470HM
RT07	0790037R	RES.CHIP 1/16W 1.0K OHM	RW03	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RT08	AQ00164R	CHIP RESISTOR 1/16W 75OHM TAPE	RW04	AQ00519R	CHIP RESISTOR 470HM
RT09	0790043R	RES.CHIP 1/16W 2.7K OHM	RW05	0790019R	RES.CHIP 1/16W 47 OHM
RT10	AQ00258R	RES.CHIP 1/16W 270K OHM TAPE	RW06	0790019R	RES.CHIP 1/16W 47 OHM
RT11	AQ00247R	RES.CHIP 1/16W 100K OHM TAPE	RW07	AQ00519R	CHIP RESISTOR 470HM
RT12	AQ00229R	RES.CHIP 1/16W 22K OHM TAPE	RW08	AQ00519R	CHIP RESISTOR 470HM
RT14	0790046R	RES.CHIP 1/16W 4.7K OHM	RW09 RW10	AQ00519R 0790019R	CHIP RESISTOR 470HM
RT15 RT16	0790037R 0790046R	RES.CHIP 1/16W 1.0K OHM RES.CHIP 1/16W 4.7K OHM	RW10 RW11	0790019R 0790019R	RES.CHIP 1/16W 47 OHM RES.CHIP 1/16W 47 OHM
	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RW12	AQ00519R	CHIP RESISTOR 470HM
RT18	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RW13	AQ00519R	CHIP RESISTOR 470HM
	0790024R	RES.CHIP 1/16W 100 OHM	RW14	0790019R	RES.CHIP 1/16W 47 OHM
RT20	0790024R	RES.CHIP 1/16W 100 OHM	RW15	0790019R	RES.CHIP 1/16W 47 OHM
RT21	0790052R	RES.CHIP 1/16W 12K OHM	RW16	AQ00519R	CHIP RESISTOR 470HM
RT22	AQ00212R		RW17	0790019R	RES.CHIP 1/16W 47 OHM
	AQ00244R		RW18	0790019R	RES.CHIP 1/16W 47 OHM
RT24	0790046R	RES.CHIP 1/16W 4.7K OHM	RW19	AQ00519R	CHIP RESISTOR 470HM
	0790046R	RES.CHIP 1/16W 4.7K OHM	RW20	0790051R	RES.CHIP 1/16W 10K OHM
RT26 RT27	0790001R 0790024R	CHIP RESISTOR RECJUMPER-1-16C16T1608 RES.CHIP 1/16W 100 OHM	RW22 RW23	0790051R 0790051R	RES.CHIP 1/16W 10K OHM RES.CHIP 1/16W 10K OHM
RT28	0790024R 0790024R	RES.CHIP 1/16W 100 OHM	RW23 RW24	0790051R 0790064R	RES.CHIP 1/16W 10K OHM
RT30	AQ00175R	RES.CHIP 1/16W 200 OHM TAPE	RW25	0790004R 0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RT31	AQ00175R	RES.CHIP 1/16W 200 OHM TAPE	RW26	0790051R	RES.CHIP 1/16W 10K OHM
	0790037R	RES.CHIP 1/16W 1.0K OHM	RW27	0790051R	RES.CHIP 1/16W 10K OHM
RT33	0790028R	RES.CHIP 1/16W 220 OHM	RW29	0195250R	RES 2125 CHIP JAMPER WIRE
	0790028R	RES.CHIP 1/16W 220 OHM	RW31	AQ00243R	RES.CHIP 1/16W 68K OHM TAPE
RT36	0790037R	RES.CHIP 1/16W 1.0K OHM	RW32	AQ00247R	RES.CHIP 1/16W 100K OHM TAPE
	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RW33	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RT40	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RW34	AQ00231R	RES.CHIP 1/16W 24K OHM TAPE
RT42 RT43	AQ00175R AQ00175R	RES.CHIP 1/16W 200 OHM TAPE RES.CHIP 1/16W 200 OHM TAPE	RW35 RW36	AQ00258R 0790001R	RES.CHIP 1/16W 270K OHM TAPE CHIP RESISTOR RECJUMPER-1-16C16T1608
	0790019R	RES.CHIP 1/16W 47 OHM	RW37	0790001R 0790019R	RES.CHIP 1/16W 47 OHM
RT45	0790019R	RES.CHIP 1/16W 47 OHM	RW38	0790019R	RES.CHIP 1/16W 47 OHM
	0790011R	RES.CHIP 1/16W 10 OHM	RW40	0790051R	RES.CHIP 1/16W 10K OHM
RT47	0790011R	RES.CHIP 1/16W 10 OHM	RW41	0790051R	RES.CHIP 1/16W 10K OHM
RT48	0790011R	RES.CHIP 1/16W 10 OHM	RW42	0790051R	RES.CHIP 1/16W 10K OHM
RT49	AQ00511R	CHIP RESISTOR 100HM	RW43	AZ01031R	THERMISTOR NANOSMDC050F13.2
RT50	AQ00511R	CHIP RESISTOR 100HM	RW44	0790019R	RES.CHIP 1/16W 47 OHM
RT56	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RW45	0790019R	RES.CHIP 1/16W 47 OHM
	0790035R	RES.CHIP 1/16W 680 OHM	RW47	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
RT64 RT65	0790051R 0790001R	RES.CHIP 1/16W 10K OHM CHIP RESISTOR RECJUMPER-1-16C16T1608	RW48 RW49	0790051R 0790051R	RES.CHIP 1/16W 10K OHM RES.CHIP 1/16W 10K OHM
11100	71 0006 10	OF III ALSIOTON ALGOUNIFER-1-100 101 1000	I 10049	71 6006 10	INLO.OTHE 1/1000 TON OFINI

SYMBOL	PART#	DESCRIPTION	SYMBOL	PART#	DESCRIPTION
RW50	0790051R	RES.CHIP 1/16W 10K OHM	PSC	EA02337R	30P 1.0MM PITCH CONNE. 501331-
RW51	0790051R	RES.CHIP 1/16W 10K OHM	PSM	EA02221U	0.5 PITCH 240P B TO B CONN. SH
RW52	0790051R	RES.CHIP 1/16W 10K OHM	PSP1	EA01632	CPC68PH1R27HSCAA1A1
RW54	0790064R	RES.CHIP 1/16W 100K OHM	PSP2	EA01641	SCAB1A5100
RW55	0790051R	RES.CHIP 1/16W 10K OHM	PST1	EA02241R	CPC68FP0R5H
RW58	AQ00519R	CHIP RESISTOR 470HM	PST2	EA02322R	3P 1.0MM PITCH CONNE. 501331-0
RW59	AQ00519R	CHIP RESISTOR 470HM	PSU	2902266	PLUG PIN SUB MINI 7P
RW61	0790019R	RES.CHIP 1/16W 47 OHM	JNM1	EY01771R	SD MEMORY CARD 54794-0978
RW62	0790019R	RES.CHIP 1/16W 47 OHM	JT01	2670771	PHONO JACK
RW63	0790051R	RES.CHIP 1/16W 10K OHM			
RW64	0790051R	RES.CHIP 1/16W 10K OHM			MISCELLANEOUS
RW65	0790051R	RES.CHIP 1/16W 10K OHM	UT01	HJ00541	ENV56N01D5F (TUNER)
RW66	0790051R	RES.CHIP 1/16W 10K OHM	#B #B*	JA05978 JA06421	PSB DW1-U SUB DIGITAL
RW67 RW68	0790051R 0790051R	RES.CHIP 1/16W 10K OHM RES.CHIP 1/16W 10K OHM	#B NW01~4	MJ02881	PSB DW1-U SUB DIGITAL M2X8 SCREW WITH WASHER
RW69	AQ0051R	CHIP RESISTOR 470HM	140001~4	WIJU266 I	WZX0 SCREW WITH WASHER
RW70	AQ00519R AQ00519R	CHIP RESISTOR 470HM			TERMINAL PWB
RW71	AQ00519R AQ00519R	CHIP RESISTOR 470HM			I LINIMAL FWD
RW73	0790064R	RES.CHIP 1/16W 100K OHM			CAPACITORS
RW74	0790004R 0790019R	RES.CHIP 1/16W 47 OHM	C101	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
RW75	0790019R 0790019R	RES.CHIP 1/16W 47 OHM	C101	AA01144R AA01144R	CERAMIC CAP. 1608-B 1.00F 16V
RW76	0790019R 0790051R	RES.CHIP 1/16W 10K OHM	C102	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
RW77	0790051R 0790051R	RES.CHIP 1/16W 10K OHM	C103	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
RW78	0790051R 0790051R	RES.CHIP 1/16W 10K OHM	C104	AA01144R AA01144R	CERAMIC CAP. 1608-B 1.00F 16V
RW79	AQ00551R	CHIP RESISTOR 10KOHM	C105	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
RW80	AQ00551R AQ00551R	CHIP RESISTOR 10KOHM	C107	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
RW81	0790019R	RES.CHIP 1/16W 47 OHM	C108	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
RW82	0790019R	RES.CHIP 1/16W 47 OHM	C109	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
RW83	0790051R	RES.CHIP 1/16W 10K OHM	C114	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
RW85	0790051R	RES.CHIP 1/16W 10K OHM	C115	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
RW87	0790019R	RES.CHIP 1/16W 47 OHM	C116	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
RW88	0790062R	RES.CHIP 1/16W 68K OHM	C117	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
RW89	0790057R	RES.CHIP 1/16W 33K OHM	C118	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
RX01	0790019R	RES.CHIP 1/16W 47 OHM	C119	AA00968R	CCC106M06-B-20CT (10UF 6.3V 2012M)
RX02	0790019R	RES.CHIP 1/16W 47 OHM	C120	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
RX03	0790019R	RES.CHIP 1/16W 47 OHM	C122	AA01185R	CAP.CHIP-CERAMIC 22UF/16V B 32
RX04	0790029R	RES.CHIP 1/16W 270 OHM	C123	0893119R	CAP 1608CHIP 33PFJCH 50V TAPE
RX05	0790029R	RES.CHIP 1/16W 270 OHM	C124	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
RX06	0790029R	RES.CHIP 1/16W 270 OHM	C125	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
RX07	0790024R	RES.CHIP 1/16W 100 OHM	C126	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
RX08	0790024R	RES.CHIP 1/16W 100 OHM	C127	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
RX09	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	C128	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
RX10*	0790019R	RES.CHIP 1/16W 47 OHM	C129	AA01123R	CCC105K10-B-16CT
RX12	0790024R	RES.CHIP 1/16W 100 OHM	C130	AA01123R	CCC105K10-B-16CT
RX16	0790026R	RES.CHIP 1/16W 150 OHM	C131	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
RXJ1	AQ00241R	RES.CHIP 1/16W 56K OHM TAPE	C132	AA01185R	CAP.CHIP-CERAMIC 22UF/16V B 32
RXJ2	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	C133	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
RXJ3	AQ00261R	RES.CHIP 1/16W 330K OHM TAPE	C134	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
		TEGT BOUTO	C135	0893119R	CAP 1608CHIP 33PFJCH 50V TAPE
TD144	E 4 000000	TEST POINTS	C136	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
TPM1	EA00002R	CHECKER CHIP 2125 TAPING	C137	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
TPM2	EA00002R	CHECKER CHIP 2125 TAPING	C138	AA01123R	CCC105K10-B-16CT
TPP1	EA00001R	CHECKER CHIP 3216 TAPING	C139 C140	AA01113R	CCC225K06-B-16CT
		CRYSTALS, FILTERS	C140 C141	AA00951R 0893205R	CERAMIC CAPACITOR(1.0UF 16V) CAP 1608CHIP 560PFKB 50V TAPE
X401	BL01183R	CSTCE13M5V53-R0	C141 C144	0893205R AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
	BK10324R	CERAMIC FILTER NFM2012P13C105BT1	C144 C148	AA01144R AA01144R	CERAMIC CAP. 1608-B 1.00F 16V
XPS1	BK10324R BK10323R	CERAMIC FILTER NFM2012F13C103B11 CERAMIC FILTER NFM2012F13C103F1	C146 C149	0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE
XS02	BL00972R	10MHzRESONATOR	C149	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
XT01	BG01624U	SAW FILTER(X6875D)	C1A1	AA01144R	CERAMIC CAP. 1608-B 1.00F 16V
XT01 XT02	BN00261	BGS TRAP MKTGA47M2CAHP00B05	C1A2	AA01144R	CERAMIC CAP. 1608-B 1.00F 16V
XT03	BG01625U	SAW FILTER(X6888D)	C1A4	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
XT04	BL01491R	OSC25R14X10T	C1A5	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
XT05	BK10324R	CERAMIC FILTER NFM2012P13C105BT1	C1A6	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
	BK00211R	CERAMIC FILTER LFA20-2A1E103MT	C1A7	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
XT07	BK00211R	CERAMIC FILTER LFA20-2A1E103MT	C1A8	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
	BL01182R	CSTCE16M0V53-R0	C1A9	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
			C1C1	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
		CONNECTORS	C1C2	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
P401	2902264	PLUG PIN SUB MINI 5P	C1C3	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
P402	2902265	PLUG PIN SUB MINI 6P	C1C4	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
PCS2	EA02355R	15P 1.0MM PITCH CONNE501**	C1C5	AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V
PFAN	EA02132R	3P SMT PH CONNE. POST -LF-	C1C6	AA00937R	CAP.CHIP-CERAMIC 10UF 10V 2012BK
PPS1	2902272	PLUG PIN SUB MINI 12P	C1C7	AA00937R	CAP.CHIP-CERAMIC 10UF 10V 2012BK
PPS2	ED01194	PLUG	C1C8	AA01185R	CAP.CHIP-CERAMIC 22UF/16V B 32

SYM	BOL	PART#	DESCRIPTION	SYMBOL	PART#	DESCRIPTION
C1E1		AA00937R	CAP.CHIP-CERAMIC 10UF 10V 2012BK			COILS
C1E2		AA00937R	CAP.CHIP-CERAMIC 10UF 10V 2012BK	L101	BM00241R	CHOKE COIL-CHIP (TYPE RC04)
C1E3		AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V	L102	BM00241R	CHOKE COIL-CHIP (TYPE RC04)
C1E5		AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V	L3M1	BA00894R	LBC2518 CHIP COIL 100UH
C1E7		0893222R	CAP 1608CHIP10000PFKB 50V TAPE	LTJ1	BA02244R	HCC102J32CT
C1E8		AA01185R	CAP.CHIP-CERAMIC 22UF/16V B 32	LTJ1	BA02244R	HCC102J32CT
C1F2		0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	LTJ2	BA02185R	HCC221J2520CT
C1M1		0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE			
C1P1		0893208R	CAP 1608CHIP 1000PFKB 50V TAPE			TRANSISTORS
C1P2		AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V	Q101	1323293R	TRS.CHIP 2SC4617 TL (R/S)
C1P3		0893126R	CAP 1608CHIP 100PFJCH 50V TAPE	Q102	1323294R	TRS.CHIP 2SA1774 TL (R/S)
C1P4		AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V	Q103	1323294R	TRS.CHIP 2SA1774 TL (R/S)
C1P5 C1P6		AA01144R 0893126R	CERAMIC CAP. 1608-B 1.0UF 16V CAP 1608CHIP 100PFJCH 50V TAPE	Q104 Q107	1323294R 1323294R	TRS.CHIP 2SA1774 TL (R/S) TRS.CHIP 2SA1774 TL (R/S)
C1P7		0893120R 0893208R	CAP 1608CHIP 1000PFKB 50V TAPE	Q107 Q108	1323294R 1323294R	TRS.CHIP 2SA1774 TL (R/S)
C1P8		AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V	Q109	1323294R	TRS.CHIP 2SA1774 TL (R/S)
C3J1		0893222R	CAP 1608CHIP10000PFKB 50V TAPE	Q1A1	CA00461R	TRS.CHIP 2SD2114K 20V TAPE
C3J2		AA00951R	CERAMIC CAPACITOR(1.0UF 16V)	Q1A2	CA00461R	TRS.CHIP 2SD2114K 20V TAPE
C3J3		AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V	Q1A3	1323391	PHOTO TRANSISTOR
C3M1		AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V	QRJ1	CA11641R	PHOTO TRANSISTOR
C3M2		AA01144R	CERAMIC CAP. 1608-B 1.0UF 16V	QRJ2	CA11641R	PHOTO TRANSISTOR
СЗМЗ		AA01123R	CCC105K10-B-16CT	QRJ3	1323294R	TRS.CHIP 2SA1774 TL (R/S)
C3M4		AA01123R	CCC105K10-B-16CT	QTJ1	1323293R	TRS.CHIP 2SC4617 TL (R/S)
C3M5		0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	I		
C3M6		AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)	1		RESISTORS
C901A		AN02089S	PLASTIC FILM CAP.CQ-105K251PVS	R101	AQ00164R	CHIP RESISTOR 1/16W 75OHM TAPE
C902	\triangle	AN02087S	PLASTIC FILM CAP.CQ-474K251PVS	R102	AQ00164R	CHIP RESISTOR 1/16W 75OHM TAPE
CR01		0893222R	CAP 1608CHIP10000PFKB 50V TAPE	R104	0790051R	RES.CHIP 1/16W 10K OHM
CR02		AD00633R	CEC471M16-EWMT 105	R106	0790051R	RES.CHIP 1/16W 10K OHM
CR03		AD00633R	CEC471M16-EWMT 105 CAP 1608CHIP 100PFJCH 50V TAPE	R108 R112	0790051R 0790037R	RES.CHIP 1/16W 10K OHM
CRJ1 CRJ2		0893126R 0893126R	CAP 1608CHIP 100PFJCH 50V TAPE	R112 R114	0790037R 0790037R	RES.CHIP 1/16W 1.0K OHM RES.CHIP 1/16W 1.0K OHM
CRJ3		0893126R 0893126R	CAP 1608CHIP 100PFJCH 50V TAPE	R115	0790037R 0790037R	RES.CHIP 1/16W 1.0K OHM
CRJ4		0893126R	CAP 1608CHIP 100PFJCH 50V TAPE	R117	0790037R 0790037R	RES.CHIP 1/16W 1.0K OHM
CRJ5		AA01185R	CAP.CHIP-CERAMIC 22UF/16V B 32	R118	0790064R	RES.CHIP 1/16W 100K OHM
CRJ6		0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	R119	0790064R	RES.CHIP 1/16W 100K OHM
CRJ7		0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	R120	0790051R	RES.CHIP 1/16W 10K OHM
CTJ1		0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	R122	0790037R	RES.CHIP 1/16W 1.0K OHM
CTJ2		AA00966R	CERAMIC CAPACITOR(4.7UF 6.3V)	R123	0790064R	RES.CHIP 1/16W 100K OHM
CTJ3		AA01123R	CCC105K10-B-16CT	R124	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
CTJ4		0893222R	CAP 1608CHIP10000PFKB 50V TAPE	R126	0790024R	RES.CHIP 1/16W 100 OHM
CTJ5		0893222R	CAP 1608CHIP10000PFKB 50V TAPE	R127	0790024R	RES.CHIP 1/16W 100 OHM
CTJ9		0893222R	CAP 1608CHIP10000PFKB 50V TAPE	R132	0790024R	RES.CHIP 1/16W 100 OHM
CTK1		0893222R	CAP 1608CHIP10000PFKB 50V TAPE	R133	0790051R	RES.CHIP 1/16W 10K OHM
CTK2		0893222R	CAP 1608CHIP10000PFKB 50V TAPE	R134	0790051R	RES.CHIP 1/16W 10K OHM
CTK3		0893127R	CAP 1608CHIP 120PFJCH 50V TAPE	R135	0790064R	RES.CHIP 1/16W 100K OHM
CTK4		0893222R	CAP 1608CHIP10000PFKB 50V TAPE	R137	0790064R	RES.CHIP 1/16W 100K OHM
CTK5 CTK6		0893127R 0893222R	CAP 1608CHIP 120PFJCH 50V TAPE	R138	0790064R 0790064R	RES.CHIP 1/16W 100K OHM
CTK7		0893222R 0893211R	CAP 1608CHIP10000PFKB 50V TAPE CAP 1608CHIP 1500PFKB 50V TAPE	R139 R140	0790064R 0790024R	RES.CHIP 1/16W 100K OHM RES.CHIP 1/16W 100 OHM
CTK8		0893211R 0893179R	CAP.CHIP-CERAMIC 100000PF 16V TAPE	R140	0790024R 0790024R	RES.CHIP 1/16W 100 OHM
CTK9		AA01123R	CCC105K10-B-16CT	R141	0790024R 0790024R	RES.CHIP 1/16W 100 OHM
1				R150	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
1			DIODES	R152	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
D1A1		CC01994R	ZENER.CHIP UDZSTE-172.7B	R154	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
D1A2		CC01994R	ZENER.CHIP UDZSTE-172.7B	R155	0790051R	RES.CHIP 1/16W 10K OHM
D1A3		CC01891R	SDS511_PF	R156	0790037R	RES.CHIP 1/16W 1.0K OHM
DRJ1		CC01999R	ZENER.CHIP UDZSTE-174.3B	R157	0790059R	RES.CHIP 1/16W 47K OHM
DRJ2		CC01999R	ZENER.CHIP UDZSTE-174.3B	R158	0790059R	RES.CHIP 1/16W 47K OHM
DTJ1		CC01891R	SDS511_PF	R159	0790033R	RES.CHIP 1/16W 470 OHM
DTJ2		CC02022R	ZENER.CHIP UDZSTE-1730B	R162	0790041R	RES.CHIP 1/16W 1.8K OHM
1		I		R163	0790041R	RES.CHIP 1/16W 1.8K OHM
	_		PROTECTORS, FUSES	R164	0790041R	RES.CHIP 1/16W 1.8K OHM
F902	\triangle	FN00478	FUSE 51MS 100 L-U	R165	0790024R	RES.CHIP 1/16W 100 OHM
1		I	INTEGRATED CIRCUITS (ICIA)	R166	0790024R	RES.CHIP 1/16W 100 OHM
1104		CKSOSSSII	INTEGRATED CIRCUITS (IC's)	R167	0790024R	RES.CHIP 1/16W 100 OHM
1101		CK39882U CK39891R	MM1630CQ MM1631XJBE	R168 R169	0790036R	RES.CHIP 1/16W 820 OHM RES.CHIP 1/16W 820 OHM
I1A1 I1P1		CK39891R CK51331R	MM1631XJBE TK11100CS	R169 R170	0790036R 0790036R	RES.CHIP 1/16W 820 OHM RES.CHIP 1/16W 820 OHM
		CK51331R CK51331R	TK11100CS	R170	0790036R 0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
11D2			* 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.1.01	07 0000 HX	01.111 INEOIO FOR INEOJOINIFER-1-100 101 1000
I1P2 I3.J1			MONO IC TK11150CSCI	R181	0790014R	RES CHIP 1/16W 18 OHM
I3J1		CK37218R	MONO IC TK11150CSCL DIGITAL MONOLITHIC IC (MAX202I)	R181 R1A1	0790014R AQ00362R	RES.CHIP 1/16W 18 OHM RES.CHIP 1/16W 2.2K OHM TAPE
13J1 13M1			DIGITAL MONOLITHIC IC (MAX202I)	R181 R1A1 R1A2	0790014R AQ00362R AQ00362R	RES.CHIP 1/16W 18 OHM RES.CHIP 1/16W 2.2K OHM TAPE RES.CHIP 1/16W 2.2K OHM TAPE
I3J1		CK37218R CK50027R		R1A1	AQ00362R	RES.CHIP 1/16W 2.2K OHM TAPE

SYMBOL	PART#	DESCRIPTION	SYMBOL	PART#	DESCRIPTION
R1A6	0790064R	RES.CHIP 1/16W 100K OHM	RR17	AQ00164R	CHIP RESISTOR 1/16W 75OHM TAPE
R1A7	0790064R	RES.CHIP 1/16W 100K OHM	RR18	AQ00164R	CHIP RESISTOR 1/16W 75OHM TAPE
R1A8	0790037R	RES.CHIP 1/16W 1.0K OHM	RR19	0790069R	RES.CHIP 1/16W 270K OHM
R1A9	0790037R	RES.CHIP 1/16W 1.0K OHM	RR20	0790069R	RES.CHIP 1/16W 270K OHM
R1C1	0790063R	RES.CHIP 1/16W 82K OHM	RR21	0790064R	RES.CHIP 1/16W 100K OHM
R1C2 R1C3	0790063R 0790037R	RES.CHIP 1/16W 82K OHM RES.CHIP 1/16W 1.0K OHM	RR22 RR23	AQ00163R 0790064R	RES.CHIP 1/16W 68 OHM TAPE RES.CHIP 1/16W 100K OHM
R1C4	0790037R 0790037R	RES.CHIP 1/16W 1.0K OHM	RR24	AQ00163R	RES.CHIP 1/16W 100K OHW RES.CHIP 1/16W 68 OHM TAPE
R1C5	0790028R	RES.CHIP 1/16W 220 OHM	RR25	0790064R	RES.CHIP 1/16W 100K OHM
R1C6	0790028R	RES.CHIP 1/16W 220 OHM	RR26	AQ00163R	RES.CHIP 1/16W 68 OHM TAPE
R1C7	AQ00362R	RES.CHIP 1/16W 2.2K OHM TAPE	RR27	0790064R	RES.CHIP 1/16W 100K OHM
R1C8	0790024R	RES.CHIP 1/16W 100 OHM	RR28	0790064R	RES.CHIP 1/16W 100K OHM
R1C9	0790024R	RES.CHIP 1/16W 100 OHM	RR31	0790064R	RES.CHIP 1/16W 100K OHM
R1E1 R1E2	AQ00234R	RES.CHIP 1/16W 33K OHM TAPE	RR32 RRJ1	0790001R 0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608
R1E3	AQ00234R AQ00225R	RES.CHIP 1/16W 33K OHM TAPE RES.CHIP 1/16W 15K OHM TAPE	RRJ1 RRJ2	0790001R 0790028R	CHIP RESISTOR RECJUMPER-1-16C16T1608 RES.CHIP 1/16W 220 OHM
R1E4	AQ00225R AQ00225R	RES.CHIP 1/16W 15K OHM TAPE	RRJ3	0790028R	RES.CHIP 1/16W 220 OHM
R1E5	0790044R	RES.CHIP 1/16W 3.3K OHM	RRJ4	0790056R	RES.CHIP 1/16W 27K OHM
R1E6	0790044R	RES.CHIP 1/16W 3.3K OHM	RRJ5	0790028R	RES.CHIP 1/16W 220 OHM
R1E9	0790037R	RES.CHIP 1/16W 1.0K OHM	RRJ6	0790028R	RES.CHIP 1/16W 220 OHM
R1F1	0790037R	RES.CHIP 1/16W 1.0K OHM	RRJ7	0790012R	RES.CHIP 1/16W 12 OHM
R1H1	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RRJ8	0790015R	RES.CHIP 1/16W 22 OHM
R1H2	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RRJ9	0790021R	RES.CHIP 1/16W 56 OHM
R1P1 R1P2	AQ00261R 0790001R	RES.CHIP 1/16W 330K OHM TAPE CHIP RESISTOR RECJUMPER-1-16C16T1608	RRK1 RRK2	0790012R 0790031R	RES.CHIP 1/16W 12 OHM RES.CHIP 1/16W 330 OHM
R1P2 R1P3	0790001R AQ00241R	RES.CHIP 1/16W 56K OHM TAPE	RRK2 RRK3	0790031R 0790064R	RES.CHIP 1/16W 330 OHM RES.CHIP 1/16W 100K OHM
R1P4	AQ00241R AQ00241R	RES.CHIP 1/16W 56K OHM TAPE	RRK4	0790059R	RES.CHIP 1/16W 47K OHM
R1P5	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RRK5	0790024R	RES.CHIP 1/16W 100 OHM
R1P6	AQ00261R	RES.CHIP 1/16W 330K OHM TAPE	RRK6	0790012R	RES.CHIP 1/16W 12 OHM
R1X2	0790016R	RES.CHIP 1/16W 27 OHM	RRK7	0790012R	RES.CHIP 1/16W 12 OHM
R1X3	0790016R	RES.CHIP 1/16W 27 OHM	RRK8	0790031R	RES.CHIP 1/16W 330 OHM
R1X4	0790016R	RES.CHIP 1/16W 27 OHM	RRK9	0790015R	RES.CHIP 1/16W 22 OHM
R3J1	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	RRL1	0790021R	RES.CHIP 1/16W 56 OHM
R3M2 R3M3	0790037R 0790037R	RES.CHIP 1/16W 1.0K OHM RES.CHIP 1/16W 1.0K OHM	RRL2 RTJ1	0790001R 0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608 CHIP RESISTOR RECJUMPER-1-16C16T1608
R3M4	0790037R 0790037R	RES.CHIP 1/16W 1.0K OHM	RTJ4	0790001R 0790037R	RES.CHIP 1/16W 1.0K OHM
R3M5	0790037R	RES.CHIP 1/16W 1.0K OHM	RTJ5	0790059R	RES.CHIP 1/16W 47K OHM
R3M6	0790037R	RES.CHIP 1/16W 1.0K OHM	RTJ7	0790024R	RES.CHIP 1/16W 100 OHM
R3M7	0790037R	RES.CHIP 1/16W 1.0K OHM			
R3M8	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608			SWITCHES
R3M9	0790037R	RES.CHIP 1/16W 1.0K OHM	S900 /i\	FG00251	POWER SW SPW02N02SY17-2-1(U1D1
R3N1	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	SNC1	FB00023R	CHIP PUSH SWITCH
R3N2 R3N3	0790037R 0790001R	RES.CHIP 1/16W 1.0K OHM CHIP RESISTOR RECJUMPER-1-16C16T1608	SNC2 SNC3	FB00023R FB00023R	CHIP PUSH SWITCH CHIP PUSH SWITCH
R3N4	0790001R 0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	SNC4	FB00023R	CHIP PUSH SWITCH
R3N6	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	SNC5	FB00023R	CHIP PUSH SWITCH
R3N7	0790037R	RES.CHIP 1/16W 1.0K OHM	SNC6	FB00023R	CHIP PUSH SWITCH
RNC1	0790051R	RES.CHIP 1/16W 10K OHM	SNC7	FB00023R	CHIP PUSH SWITCH
	0790046R	RES.CHIP 1/16W 4.7K OHM			
RNC3	0790043R	RES.CHIP 1/16W 2.7K OHM			CRYSTAL, FILTERS
RNC4	0790039R		X101 XT 11	BK10323R	CERAMIC FILTER NFM2012P13C105F CERAMIC FILTER NFM2012P13C105BT1
RNC5 RNJ1	0790037R 0790069R	RES.CHIP 1/16W 1.0K OHM RES.CHIP 1/16W 270K OHM	XTJ1 XTJ2	BK10324R BK00213R	CERAMIC FILTER NFM2012P13C105B11 CERAMIC FILTER LFA20-2A1E473MT
RNJ2	0790069R	RES.CHIP 1/16W 270K OHM	XTJ3	BK00213R BK00213R	CERAMIC FILTER LF A20-2A1E473MT
RNJ5	AQ00164R	CHIP RESISTOR 1/16W 750HM TAPE			
RNL1	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608			CONNECTORS, JACKS
RNL2	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	J3M1	EQ00771	JACK
RNL3	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	JNJ1	EU01352	TERMINAL S*3P T-355971-01
RNR0	0790001R	CHIP RESISTOR RECJUMPER-1-16C16T1608	JR01	EQ00721	JACK
RR01 RR02	AQ00164R AQ00164R	CHIP RESISTOR 1/16W 750HM TAPE CHIP RESISTOR 1/16W 750HM TAPE	JR02 JRJ1	EQ00732 EQ00741	JACK JACK
RR02 RR03	AQ00164R AQ00164R	CHIP RESISTOR 1/16W 750HM TAPE CHIP RESISTOR 1/16W 750HM TAPE	JRJ1 JRJ2	EQ00741 EQ00741	JACK JACK
RR04	0790069R	RES.CHIP 1/16W 270K OHM	JSW	EA02231R	8P 0.45 PITCH SOCKET 3234
RR05	0790069R	RES.CHIP 1/16W 270K OHM	PANT	2902262	PLUG PIN SUB MINI 3P
RR06	AQ00164R	CHIP RESISTOR 1/16W 75OHM TAPE	PCS1	EA02334R	14P 1.0MM PITCH CONNE. 501331-
RR07	AQ00164R	CHIP RESISTOR 1/16W 75OHM TAPE	PFT	EA02183R	13P SMT ZH CONN. POST
RR08	AQ00164R	CHIP RESISTOR 1/16W 75OHM TAPE	PPU1		6P VH CONNECTOR PLUG #2
RR09	0790069R	RES.CHIP 1/16W 270K OHM	PPU2	ED02801	2P PLUG PIN
RR10 RR11	0790069R AQ00164R	RES.CHIP 1/16W 270K OHM CHIP RESISTOR 1/16W 750HM TAPE	PSW PTF	ED02811 EA02183R	8P VH PLUG PIN 13P SMT ZH CONN. POST
RR12	AQ00164R AQ00164R	CHIP RESISTOR 1/16W 750HM TAPE CHIP RESISTOR 1/16W 750HM TAPE	PTS1	EA02163R EA02241R	CPC68FP0R5H
RR13	AQ00164R	CHIP RESISTOR 1/16W 750HM TAPE	PTS2	EA02322R	3P 1.0MM PITCH CONNE. 501331-0
RR14	0790069R	RES.CHIP 1/16W 270K OHM	PTW	ED01076	PLUG
RR15	0790069R	RES.CHIP 1/16W 270K OHM	PWT	ED01056	CONNECTOR
RR16	AQ00164R	CHIP RESISTOR 1/16W 75OHM TAPE	l		

SYMBOL	PART#	DESCRIPTION	SYMBOL	PART#	DESCRIPTION
		MISCELLANEOUS			
N101	NA75294	DW1 TERMINAL SUP MTL			
N101	NA75381				
NF902	FP00031R	FUH5R3X50T TP00351			P. W. B.
UTJ1	HC00641	ENGE6401DF	A02	TS06311	55P2 LOGIC PWB
WTJ1	2784381M	0.60MM TAPED JUMP.WIRE	A11	UE24723	DW1-UC CHASSIS ASSY (HDT/HDX)
#B	JA06302	PSB DW1-U 55" TERMINAL	A11	UE24724	DW1-UD CHASSIS ASSY (HDS)
			A21	JP08522	DW1-U TERMINAL PWB
		FINAL ASS'Y	A11	JP08511	DW1-U DIGITAL SUB PWB
		SPEAKERS	A21	JP08533	PSA DW1-UC MAIN-DIGITAL (HDT/HDX)
ODD	01404000		A21	JP08534	PSA DW1-UD MAIN-DIGITAL (HDS)
SPB	GM01692	SPEAKER UNIT	U1	HA01572	POW-LSEP1198A1HB (POWER UNIT)
SPL	GM01623	SPEAKER UNIT			
SPR	GM01624	SPEAKER UNIT			
		MISCELLANEOUS	FPF31	R-SDR003	33 SDR -U BOARD
#	JP08522	DW1-U TERMINAL PWB ASS'Y			
#	JP08511	DW1-U SUB-DIG PWB ASS'Y	FPF31	R-SDR003	34 SDR -D BOARD
#908	NA75392	DW1 MAIN HEATSINK	FPF31	R-LGC005	3 LOGIC BOARD
A01	DD00752K	FPF55C17196UB-85			
A02	TS06311	55P2 LOGIC PWB			9 X-BUS BOARD
			FPF31	R-XSS003	1 X-SUS BOARD
A03	TS06023	FPF28R-SCWM3			2 Y-SUS BOARD
A11	UE24723	DW1-U 55" CHASSIS ASSY	_		
A21	JP08533	PSA DW1-UC MAIN-DIG.	FPF31	KABD00 <mark>28</mark>	B11 ABUS -D1 BOARD
A22	JP08534	PSA DW1-UD MAIN-DIG.	FPF31	RABD0028	312 ABUS -D2 BOARD
EANT	HP01241	ANT SW MODULE	_		
U1	HA01572	POWER UNIT			313 ABUS -D3 BOARD
l			FPF31	RABD0028	314 ABUS -D4 BOARD
		CONNECTORS			301 ABUS -U1 BOARD
E900	EP00341	PJD-ACINNLET 10DKDG3			
E902	EF23854		FPF31	RABU0028	BO2 ABUS -U2 BOARD
		2J VT CONNECTOR 180MM	EDE31	RABI IOO29	303 ABUS -U3 BOARD
E903	EF23842	CO-01T-F0R0-900-SRT			
EAN	2973704S	CONNE.3P L=330	FPF31	RABU0028	304 ABUS -U4 BOARD
ECN23	EF21628	10P VH CONNECTOR L=341MM #2,7N			
ECN6	2908898	11J PH CONNECTOR 200MM			
EDS	EW08491	30P LVDS CABLE L=440MM			
EDV	EW08447	4J DV CABLE L=920MM EARTH			
EFT	EF23888	13J ZH CONNECTOR 1310MM			
EGND	EF24041	CO-01T-T0R0-101			
EPS1	2973977S	CO-12C-C2R5-431			
EPS2	EF24682	5J VH CONNECTOR 360MM			
EPU1	EF25041	6J VH-VH CONNE. L=180MM #2,4,5			
ESC	EF24742	30J 1MM PITCH CONNE. 501189 12			
ESPL	EF24695	5J EH-SMPX2 CONNECTOR 1110/510			
ESPR	EF24705	6J EH-SMPX2 CONNECTOR 1070-690			
ESU	2973823S	CO-07C-C2R5-301			
ETS1	EK01768	PRW68FC0R5-151-2896	1		
ETS2	EF24731	3J 1.0MM PITCH CONNE. 501330 4	1		
ETU1	EF23893	CONNECTOR PINPLUG 2.5C VV 370MM	1		
ETU2	EF23895	CONNECTOR PINPLUG 2.5C-VV 560MM	1		
ETU3	EF23895	CONNECTOR PINPLUG 2.5C-VV 560MM			
EUSB	EW08561	4J USB CABLE L=910MM EARTH			
I	1				
I	1	ACCESSORIES			
E01	EV01841	POWER CORD 125V10A UL/CSA			
E02	FQ00021	DRY BATTERY(R6P-AA)	1		
E201	EY01641	PJX-IR BLASTER DP2X	1		
E202	EY01641	PJX-IR BLASTER DP2X			
			1		
N01	QR64864	55HDS52 INSTRUCTION BOOK	1		
N01	QR64865	55HDT52-A INSTRUCTION BOOK	1		
N01	QR64866	55HDX62-A INSTRUCTION BOOK	1		
N02	QR64875	55HDT52-A EASY GRAPHIC GUIDE	1		
N02	QR64876	42HDX62-A EASY GRAPHIC GUIDE	1		
N04~5	2169513	COIL LX-ZCAT2032			
N08	MS00931	CLEANING CLOTH			
N09	3611877	POLYETHLENE COVER			
N202	QT47721	NATIONAL WARRANTY CARD			
N202 N202	QT47721	DIRECTOR'S WARRANTY CARD (ONLY 55HDX62)	1		
		•			
N203	QT44791	PLASMA WARRANTY CARD CANADA			
U01	HL02065	REMOTE CONTROL UNIT CLU-3851WL			
U02	HL01863	RCT- CLU122S (ONLY 55HDX62)			
U02A	FR00061	DRY BATTERY R03(AB) E T (ONLY 55HDX62)	1		
	1			1	
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QUICK REFERENCE PARTS LIST IC'S & UNITS

No.	Symbol	P#	Description	Function	PWB ASSY	Remarks
1	A21	JP08531	PSA DW1-U MAIN-DIG. (42HDS52/42HDT52)	MAIN DIGITAL ASS'Y	MAIN DIGITAL	
2	A22	JP08532	PSA DW1-U MAIN-DIG. (42HDX62)	MAIN DIGITAL ASS'Y	MAIN DIGITAL	
3	DN01	CC02061R	LIGHT EMITTING DIODE SML-020ML	LED	LED	
4	E901	EP00341	PJD-ACINLET 10DKDG3S	AC NOISE FILTER	sw	
5	EANT	HP01241	ANT SW MODUL	ANT SWITCH BOX	FINAL ASS'Y	
6	HN30	CZ01271R	REMOCON MODULE(RPM5538-H12)	IR RECEIVER	LED	
7	HN31	CZ01261R	IRDA MODULE IC (RPM871-H12)	IR RECEIVER	LED	
8	1101	t	MM1630CQ	VIDEO SELECTOR IC	TERMINAL	
	I1A1	 	MM1631XJBE	AUDIO SELECTOR IC	TERMINAL	
-	I1P1	 	TK11100CS	ADJUSTABLE POSITIVE LOW DROPOUT REGULATOR IC	TERMINAL	
_	I1P2	 	TK11100CS	ADJUSTABLE POSITIVE LOW DROPOUT REGULATOR IC	TERMINAL	
12	I3J1	 	MONO IC TK11150CSCL	5 V VOLTAGE REGULATOR W ON/OFF SW	TERMINAL	
	I3M1	 	DIGITAL MONOLITHIC IC (MAX202IPW)	DUAL RS-232 LINE DRIVER/REC W/+-15KV ESD PROTEC	TERMINAL	
		 	,		SUBDIGITAL	
14	1401	 	TASS508PAG	8 CHANNEL DIGITAL AUDIO PWM PROCESSOR	†	
15	1402		DIGITAL MONOLITHIC IC (TAS5122)	30W STEREO DIGITAL AMPLIFIER POWER STAGE	SUBDIGITAL	
16	1403	t	ANALOG MONO. IC (BA4558F-E2)	DUAL OPERATIONAL AMPLIFIER	SUBDIGITAL	
17	1404	1	ANALOG MONO. IC (BA4558F-E2)	DUAL OPERATIONAL AMPLIFIER	SUBDIGITAL	
18	IM02	<u> </u>	SN74CB3T3306DCUR	DUAL FET BUS SWITCH	SUBDIGITAL	
19	IM03	t	IC SN74LVC1G32DCKR	SINGLE 2-INPUT POSITIVE-OR GATE	SUBDIGITAL	
20	IN31	t	DIGITAL MONOLITHIC IC (SN74LVC1G14DCK)	SINGLE SCHMITT-TRIGGER INVERTER	LED	
-	IN32	t	DIGITAL MONOLITHIC IC (SN74LVC1G17DCK)	SINGLE SCHMITT TRIGGER BUFFER	LED	
-	INM1		MAX4788EXS-T	50mA/100mA CURRENT-LIMIT SWITCHES	SUBDIGITAL	
23	IP05	CK52131R	ANALOG MONOLITHIC IC(VT221H)	INTEGRATED STEP DOWN SWITCHING REGULATOR	SUBDIGITAL	
24	IP11	CK50461R	ANALOG MONOLITHIC IC(BA6287F)	REVERSIBLE MOTOR DRIVER	SUBDIGITAL	
25	IP12	CK51331R	TK11100CS	ADJUSTABLE POSITIVE LOW DROPOUT REGULATOR IC	SUBDIGITAL	
26	IP15	CK51571R	ANALOG MONOLITHIC IC(TK11891F)	5V TO 9V STEP UP CONVERTER	SUBDIGITAL	
27	IPG1	CK33543R	ANALOG MONOLITHIC IC(PST9227N)	SYSTEM RESET IC	SUBDIGITAL	
28	IPS1	t	ANALOG MONOLITHIC IC(SC4517AIMSTRT)	STEP DOWN SWITCHING REGULATOR	SUBDIGITAL	
29	IRJ1	 	DIGITAL MONOLITHIC IC (SN74LVC1G17DCK)	SINGLE SCHMITT TRIGGER BUFFER	TERMINAL	
	IRJ2	1	DIGITAL MONOLITHIC IC (SN74LVC1G17DCK)	SINGLE SCHMITT TRIGGER BUFFER	TERMINAL	
31	IS02	1	BD37A41FVM	VOLTAGE DETECTOR IC W/ WATCHDOG TIMER	SUBDIGITAL	
32	IS03	1		TV SUB µCON	†	
33	IS05	 	M306H3MC-067FP SN74CB3T3125PWR	QUADRUPLE FET BUS SWITCH	SUBDIGITAL SUBDIGITAL	
\vdash		t				
-	IT01	 	MONO IC TK11150CSCL	5 V VOLTAGE REGULATOR W ON/OFF SW	SUBDIGITAL	
35	IT02		IC TK11250CM	5 V VOLTAGE REGULATOR W ON/OFF SW	SUBDIGITAL	
36	IT04		IC TK11250CM	5 V VOLTAGE REGULATOR W ON/OFF SW	SUBDIGITAL	
	IT05	 	UPC2711TB	5V MMIC WIDEBAND AMPLIFIER	SUBDIGITAL	
-	IT06	 	UPC3221GV	5 V AGC AMPLIFIER	SUBDIGITAL	
39	IT07	t	UPC3220GR	CATV OUT-OF-BAND TUNER	SUBDIGITAL	
40	IT08		THEATER313	DIGITAL RECEIVER	SUBDIGITAL	
_	IT09	t	MONO IC TK11118CSCL	1.8 V VOLTAGE REGULATOR W ON/OFF SW	SUBDIGITAL	
	IT13	 	TPS62040DGQR	HIGH EFFICIENCY STEP DOWN CONVERTER	SUBDIGITAL	
43	ITJ1	CK37605R	IC TK11250CM	5 V VOLTAGE REGULATOR W ON/OFF SW	TERMINAL	
44	IV01	CK51091R	SN74LVC1G3157DCKR	SINGLE-POLE, DOUBLE-THROW ANALOG SW	SUBDIGITAL	
45	IV02	CK51632R	9DR32DW8-1046	IR BLASTER	SUBDIGITAL	
46	IV03	CK38328R	IC SN74LVC1G125DCKR	SINGLE BUS BUFFER GATE WITH 3-STATE OUTPUTS	SUBDIGITAL	
47	IV04	CK51591R	WM8521H9GED/RV	STEREO DAC WITH INTEGRATED OUTPUT STAGE	SUBDIGITAL	
48	IV05	CK38328R	IC SN74LVC1G125DCKR	SINGLE BUS BUFFER GATE WITH 3-STATE OUTPUTS	SUBDIGITAL	
49	IW01	CK37218R	MONO IC TK11150CSCL	5 V VOLTAGE REGULATOR W ON/OFF SW	SUBDIGITAL	
-	IW02	1	DIGITAL MONOLITHIC IC (SN74LVC244PW)	OCTAL BUFFER/DRIVER WITH 3-STATE OUTPUTS	SUBDIGITAL	
-	IW03	 	DIGITAL MONOLITHIC IC (SN74LVC244PW)	OCTAL BUFFER/DRIVER WITH 3-STATE OUTPUTS	SUBDIGITAL	
-	IW04	t	DIGITAL MONOLITHIC IC (SN74LVC1G86DCKR)	SINGLE 2-INPUT EXCLUSIVE-OR GATE	SUBDIGITAL	
	IW05	t	PI5C32X245BEX	16-BIT, 2-PORT BUS SWITCH	SUBDIGITAL	
	IW06	t	DIGITAL MONO IC SI-3012KM	1 A, LOW DROPOUT, 1.28~15 V REGULATOR	SUBDIGITAL	
	IW07	1	IC SN74LVC1G32DCKR	SINGLE 2-INPUT POSITIVE-OR GATE	SUBDIGITAL	
		1			†	
-	1W08	t	DIGITAL MONOLITHIC IC (SN74LVC32APWR)	QUADRUPLE 2-INPUT POSITIVE-OR GATES	SUBDIGITAL	
-	IW09	ł — — — — — — — — — — — — — — — — — — —	SN74LVC125APW	QUADRUPLE BUS BUFFER GATE WITH 3-STATE OUTPUTS	SUBDIGITAL	
\vdash	IW10	t	DIGITAL MONOLITHIC IC (SN74LVC244PW)	OCTAL BUFFER/DRIVER WITH 3-STATE OUTPUTS	SUBDIGITAL	
-	IW11	 	DIGITAL MONOLITHIC IC (SN74LVC244PW)	OCTAL BUFFER/DRIVER WITH 3-STATE OUTPUTS	SUBDIGITAL	
-	IW12		DIGITAL MONOLITHIC IC (SN74LVC244PW)	OCTAL BUFFER/DRIVER WITH 3-STATE OUTPUTS	SUBDIGITAL	
61	IW13	1	DIGITAL MONOLITHIC IC (SN74LVC244PW)	OCTAL BUFFER/DRIVER WITH 3-STATE OUTPUTS	SUBDIGITAL	
-	IW14	CK08271R	DIGITAL MONOLITHIC IC (SN74LVC244PW)	OCTAL BUFFER/DRIVER WITH 3-STATE OUTPUTS	SUBDIGITAL	
-		LOKEAGGAD	TK11100CS	ADJUSTABLE POSITIVE LOW DROPOUT REGULATOR IC	SUBDIGITAL	
62	IXJ1	CK51331R				
62 63		 	SD MEMORY CARD 54794-0978	MEMORY CARD JACK	SUBDIGITAL	
62 63 64		EY01771R		MEMORY CARD JACK POWER UNIT	SUBDIGITAL POWER	
62 63 64 65	JNM1 U1	EY01771R	SD MEMORY CARD 54794-0978		+	
62 63 64 65 66	JNM1 U1 UT01	EY01771R HA01572 HJ00541	SD MEMORY CARD 54794-0978 POW-LSEP1198A1HB	POWER UNIT	POWER	

