DENON

Hi-Fi AV Surround Amplifier

SERVICE MANUAL

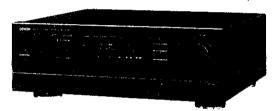
MODEL AVC-3020 2020/2020G

AV SURROUND AMPLIFIER









AVC-3020

AVC-2020

CONTENTS

OPERATING INSTRUCTIONS	
WIRE ARRANGEMENT	
DISASSEMBLY	
CIRCUIT DESCRIPTIONS	26, 27
ADJUSTMENT	28
SEMICONDUCTORS	29 ~ 37
PRINTED WIRING BOARD	
PRINTED WIRING BOARD PARTS LIST	
BLOCK DIAGRAM	51
WIRING DIAGRAM	
SCHEMATIC DIAGRAM	
EXPLODED VIEW OF CHASSIS AND CABINET	
PARTS LIST OF EXPLODED VIEW	
REMOTE CONTROL UNIT	
SCHEMATIC DIAGRAM	60
EXPLODED VIEW	
PARTS LIST	62
KEY LAYOUT	62

NIPPON COLUMBIA CO., LTD.

SPECIFICATIONS

AVC-3020 Audio Section For U.S.A. and Canada Models

AVC-2020/2020G For Multi Voltage Model

THD

(Power amplifier) Rated output:

80 W + 80 W (20 Hz to 20 kHz 8 ohms 0.08% THDI

80 W + 80 W (20 Hz to 20 kHz 6 ohms 0.08%

(Main in - speakers out; 2-channel stereo mode)

(Main in - speakers out; 2-channel stereo mode) Main: 100 W + 100 W (6 ohms EIAJ) Center: 50 W + 50 W (6 ohrns E(AJ)

(20 Hz to 20 kHz, 8 ohms 0.4% T.H.D.)

Center: 35 W + 35 W

35 W + 35 W (1 kHz 8 ohms 2.0% T.H.D.) Rear: 50 W + 50 W (6 ohms EIAJ)

(CD input - each speaker output; Dolby Pro-logic surround) 5 Hz to 50 kHz (Main in - speaker out)

Frequency response: Rated input level / impedance: Signal-to-noise ratio:

1 V/10 k ohms (Main in - speaker out) 115 dB (Main in - speaker out) A or B 6 to 16 phms Main: A + B12 to 16 ohms

Center: 6 to 16 ohms 6 to 16 ohms

(Pre-amplifier)

Output terminals:

Line input (Each line input - FRONT PRE OUT) Input sensitivity/impedance: 150 mV/30 k ohms

Frequency response: 10 Hz to 50 kHz: +0, -3 dB

5 Hz to 100 kHz: +0, -3 dB (VDP DIRECT) Tone control range: BASS: 100 Hz ±10 dB

TREBLE: 10 kHz ±10 dB 유ト오민

Signal-to-noise ratio (FRONT PRE OUT):

95 dB (VDP DIRECT) Distortion factor:

0.01% 1 kHz 3 V (BYPASS mode)

Rated output / Maximum output: 1 V/8 V (common for FRONT, CENTER, REAR, MONO, each PRE OUT)

284 mW (8 ohms) Maximum headphone output:

Phono equalizer (PHONO input - REC OUT)

20 Hz to 20 kHz ±1 dB RIAA deviation:

Signal-to-noise ratio: 76 dB (JIS-A, with 5 mV input)

Rated output / Maximum output: 150 mV/8 V Distortion factor: 0.03% (1 kHz, 3 V)

Video Section

Standard video jacks Input and output level / impedance: 1 Vp-p/75 ohms

Frequency response: 1 Hz to 10 MHz +0. -3 dB

DC to 20 MHz +0, -1 dB (VDP - DIRECT)

S-video output jacks

input and output level / impedance: Y (brightness) signal: 1 Vp-p/75 ohms C (color) signal: 0.286 Vp-p/75 ohms

Frequency response:

1 Hz to 11 MHz +0.-3 dB

DC to 20 MHz +0, -1 dB (VDP - DIRECT)

 General Power supply:

120 V AC, 60 Hz (for U.S.A. and Canada models) 110/220 V AC, 50/60 Hz (for multi-voltage model)

Power consumption:

6.0 A (for U.S.A. and Canada models)

250 W (for multi-voltage model)

434 (W) × 160 (H) × 427 (D) mm (17-3/32" × 6-19/64" × 16-13/16") (AVC-3020/2020) Maximum external dimensions:

470 (W) × 160 (H) × 427 (D) mm (18-1/2" × 6-19/64" × 16-13/16") (AVC-2020G)

Weight: 15 kg (33 lbs 2 oz) (AVC-3020/2020) 16.2 kg (35 lbs 2 oz) (AVC-2020G)

· Remote control unit (RC-134)

System remote control with learning function

Total buttons: 60

DENON system code

DAT: 8 huttons CD player: 8 buttons Cassette deck: 8 buttons Tuner: 2 buttons

AVC-3020/2020 fixed codes: 54 buttons

Learning buttons

System call buttons: 5 (maximum of 15 codes per button)

Program - Audio: 54 buttons - Video: 54 buttons Maximum total: 108 buttons

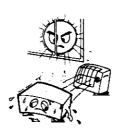
MODIAA Type (four batteries)

External dimensions: 70 (W) × 215 (H) × 35 (D) mm (2-3/4" × 8-15/32" × 1-3/8")

Weight: 230 g (Approx. 8 oz) (including batteries)

* For purposes of improvement, specifications and design are subject to change without notice.

NOTE ON USE

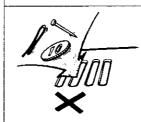


Be careful of high temperatures

. Do not place the set in a location where it will be exposed to direct sunlight or near a heating appliance.

Caution on rack/cabinet installation

- · Avoid installing the set in a closedtype rack.
- · When installing in a rack or cabinet, provide a sufficiently large ventilation opening to promote heat radiation.



Do not allow foreign matter into the equipment

· Be especially careful of needles, hair pins, and coins getting into the



Caution on humidity, water, and dust

. Do not place the set in a location where there is high humidity or a lot of dust.

Flower vases or other items containing water should not be placed on top of the set.



Care of the case

· Avoid the use of pesticides near the set as well as wiping the case with benzine, thinner or other solvents since they may cause a change in quality or color. Use a soft cloth when wiping away dirt and follow the instructions carefully when using chemically treated cloths



During your absence

Do not open the case

onen the case

. Opening the top cover or the bot-

tom plate of the case and inserting

your hand is dangerous. Do not

If some trouble arises with the

performance of the set, remove the

power plug soon and contact the

. When not using the set for an extended period such as when taking a trip, be sure to disconnect the plug from the receptacle.



Care with the power cord

· When removing the plug from the receptacle, do not pull the power cord; be sure to hold the plua when removing it.



For sets with ventilation holes

Do not block the ventilation holes of the set

- · Blocking of the ventilation holes will lead to damage of the set.
- . The ventilation holes are very important for heat radiation from within the set. Care must be taken since placing an object against the holes will result in an extreme rise of temperature within the set.



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK), NO USER SERVICE-ABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



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

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION

TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLA-RIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY IN-SERTED TO PREVENT BLADE EXPOSURE.

ATTENTION

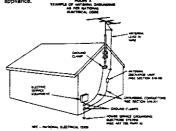
POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOLVERT

IMPORTANT SAFEGUARDS

- fead Instructions All the safety and operating instructions should be read before the appliance is operated.
- 2 Retain Instructions The safety and operating instructions should be retained for future reference.
- Head Warnings All warnings on the appliance and in the operating instructions should be adhered to.
- Follow Instructions All operating and use instructions should be followed.
- Cleaning Unplug this video product from the wall outlet before creaning. Do not use liquid cleaners or aerosol cleaners. Use a camp cloth for cleaners.
- Attachments Do not use attachments not recommended by the video product manufacturer as they may cause hazards.
- Water and Moisture Do not use this video product near water for example, near a bath tub, wash bowl, kitchen sink, or learnery tub, in a wet bassment, or near a swimming pool, and the like.
- 8. Accessories Do not place this wideo product on an unstable cart, stand, thropod, bracker, or table. The video product may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the video product. Any mounting of the appliance should follow the manufacturer instructions, and should use a mounting accessory recommended by the manufacturer.
- 8A. An appliance and cart combination should be moved with care. Quick stops, sucessive force, and uneven surfaces may cause the appliance and cart combination to overturn



- 9. Ventilation Stors and openings in the cabinet are provided for ventilation and to ensure reliable operation of the vision product and to protect it from overheating, and these openings must not be blocked or covered. The apenings should never be blocked by placing the video product on a bed, soft, rug or other similar surface. This video product should never be placed near or over a radiator or heat register. This video product should not be placed in a built-in installation such as a bookease or rack unless proper ventilation is provided or the manufacturer's instructions have been ashers; to.
- 10. Power Sources This video product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your apphased dealer or local power company. For video products intended to operate from battery power, or other sources, refer to the operation instructions.
- 11. Grounding or Potarization This video product is equipped with a polarized alternating-current frice plug la plug naving one blade wider than the other). This plug will fit into the power outlet only one wey. This is a safety feature. If you are unable to insert the plug fully into the outlet, the reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- Power-Cord Protection Power-Supply cords should be routed so that they are not likely to be waited on or pinched by rams placed upon or against them, paying particular attantion to cords at plugs, convenience receptacles, and the point where they exit from the appliance.



- 13. Protective Attachment Plug The appliance is doughed with an attachment plug having overload protection. This is a safety feature. See Instruction Manual for replacement or resetting of protective overe if replacement of the plug is required, be sure the service feature. In the plug the plug the plug the plug that is a protection as the original plug. The plug that has the same overload protection as the original plug.
- 14. Outdoor Antenna Grounding If an outside anienna or cable system is connected to be video product, be sure in the anienna or cable system is connected to the video product, be sure the anienna or cable system is grounded so as to provide some protection against voltage surpes and but-up static charges. Section 310 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an anienna discharge unit, size of grounding conductors, location or anienna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.
- 15. Lightning For added protection for this video product receiver during a lightning storm, or when it is left unstended and unused for long periods of time, unplug it from the well outlet and disconnect the antenna or cable system. This will prevent damage to the video product due to (lightning and power-line surges.
- 16. Power Lines An outside antenna system should not be located in the vicinity of own-fread power fines or other electric light or power circuits, or where it can fell into such power fines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fast.
- Overloading Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
- 18. Object and Liquid Entry Never push objects of any kind into this video product through openings as they may touch dangerous voitage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind of the video product.
- Servicing On not attempt to service this video product yourself as opening or removing covers may expose you to dangerous voitage or other hazards. Refer all servicing to qualified service personnel.
- Damage Requiring Service Unplug this video product from the wall outliet and refer servicing to qualified service personnel under the following conditions:
 - a. When the power-supply cord or plug is damaged.
 - if liquid has been spilled, or objects have tailen into the video product.
 - c. If the video product has been exposed to rain or water,
 - d. If the video product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video product to its normal operation.
 - If the video product has been drapped or the cabinet has been damaged.
 - When the video product exhibits a distinct change in performance ~ this indicates a need for service.
- Replacement Parts When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other heazerds.
- Safety Check Upon completion of any service or repairs to this video product, ask the service technician to perform safety checks to determine that the video product is in proper operating condition.

. We greatly appreciate your purchase.

· Read these operating instructions carefully to obtain the best performance and a long, trouble-free life from this amplifier. Be sure to keep these operating instructions for future reference.

- CONTENTS -

1 2 3 4 5 6 7	Dolby Pro-logic Surround	® 9772	Independent recording of video program sources and independent video tape copying 1 and 2
	Check that the following items are included in ①Operating instructions ②Warranty	134	

5 Indication plate 1

1 BEFORE USING

Read the following cautions carefully before using the amplifier:

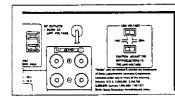
· Moving the set

Be sure to unplug the power cord and disconnect other cords connecting the amplifier to other audio units before moving the amplifier to prevent damaging or short-circuiting the cords.

· Before turning on the power switch Check again to make sure that all connections are correct and that there are no problems with the connection cords. Be sure to turn the power STANDBY before disconnecting or connecting cords.

- · Retain the operating instructions
- After reading this manual, store it in a safe place.
- · The illustrations used in this manual may differ somewhat from the actual amplifier.

MULTI-VOLTAGE MODEL ONLY



Setting the line voltage

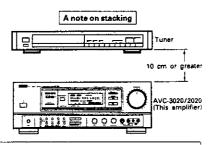
- . The customer can set the VOLTAGE SELECTORS on the back panel for appropriate line voltage.
- . Do not use excessive force in setting the VOLTAGE SELECTOR KNOB - you may damage it.
- . If the VOLTAGE SELECTOR KNOB does not slide smoothly, call qualified service personnel.
- . Be sure to sat both voltage selectors to same position.

2 INSTALLATION PRECAUTIONS

Using this amplifier or other electronic equipment containing microprocessors simultaneously with a tuner or TV may result in noise in the sound or nicture

If this should happen, take the following steps:

- . Install the amplifier as far as possible from the tuner or TV set
- · Keep the antenna lines of the tuner or TV as far as possible from the amplifier's power cord and connection cables.
- · This problem is especially frequent when using indoor antennas or 300 ohm feeder lines. We recommend using outdoor antennas and 75 ohm coaxial cables.



For cooling purposes, do not place another AV component directly on top of the amplifier. Be sure to leave a space of at least 10 cm.

HANDLING PRECAUTIONS

· Switching the input function when the input jacks are unconnected

Switching the input function when a component is not connected to the input jacks may result in the generation of click noise. If this should happen, turn down the MASTER VOLUME or connect a component to the input jacks.

. Playback with Dolby Pro-logic

The Dolby Pro-logic position provides optimum effectiveness for sources recorded with Dolby surround. A different surround mode should be selected when playing back sources other than this type. Note in particular that when playing back monaural recording sources, the bypass mode or the simulated mode should be used. Other modes will not provide a suitable effect.

. Muting of the PRE OUT jacks

An electronic muting circuit has been connected to the PRE OUT jacks. This circuit greatly attenuates the output signal for approximately 8 seconds after the power has been switched on. Reising the volume during this operation will result in an extremely large output once the muting has ended, so volume adjustments should be made only after the completion of muting.

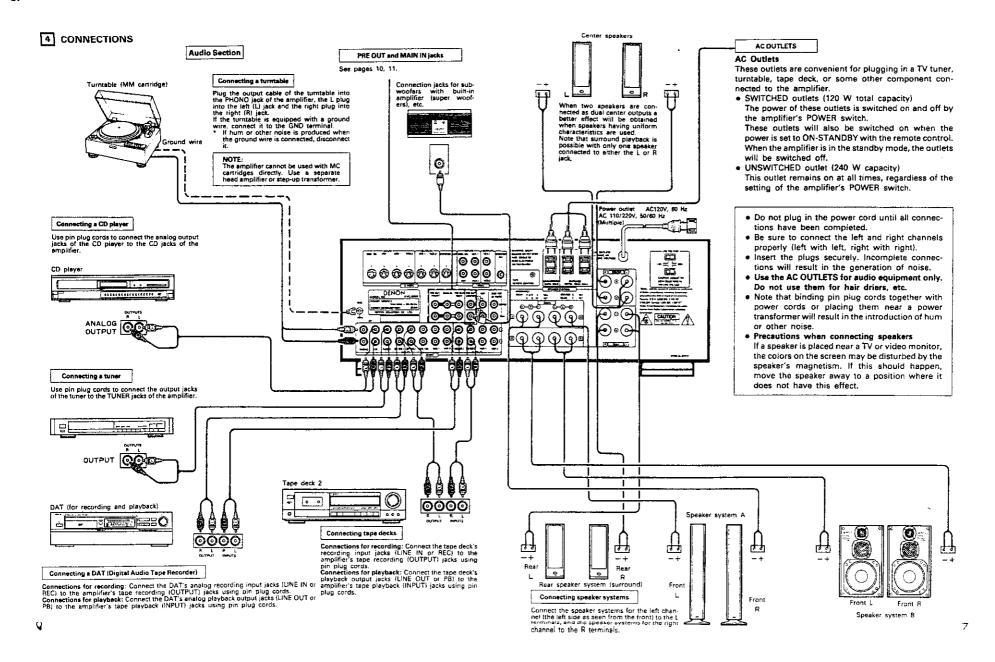
· Rear output level while in the surround mode

The rear level will seem small for sources other than Dolby stereo sources. The reason for this is that a rear playback signal is not contained in the software. When playing back such software with a surround function, the mode should be set to something other than Dolby Pro-logic surround. The rear output level may seem small for software having a small rear signal, even Dolby stereo sources.

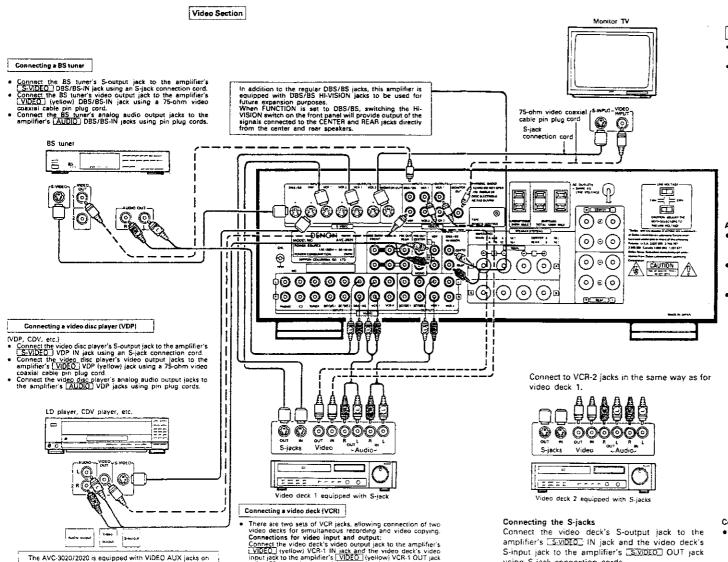
· Opening and closing the door

This amplifier is equipped with a door on the front panel. Press the "PUSH OPENA" portion printed at the upper right edge of the door to release and open the door. Likewise, to close the door, press in the same manner until a click sound is heard.

The door will open naturally once it has been released, but it may stop before fully opening. This is not a fault; just lightly push the door open.







using 75-ohm video coaxial cable pin plug cords.

Connecting a monitor TV

- Connect the TV's S-video input jeck to the amplitier's [S-VIDEO] MONITOR OUT jeck using an S-jeck connection cord.
 Connect the TV's video input jeck to the amplifier's [VIDEO] MONITOR OUT jeck using a 75-chm video coaxial cable pin plug cord.

A note on the jacks

- The input selector for the S inputs and that for the pin jack inputs work in conjunction with each
- · Superimposed displays use only special pin jack signal circuits and will not be displayed to S-jack monitor outputs.

Precaution when using S-jacks

This amplifier's S-jacks (input and output) and pin jacks (input and output) have independent circuit structures, so that signals input from the S-jacks are only output from the S-lack outputs and signals input from the pin jacks are only output from the pin jack outputs.

When connecting the amplifier with equipment that is equipped with S-jacks, keep the above point in mind and make connections according to the equipment instruction manuals.

Connecting the audio input and output jacks

· Connect the video deck's audio output jacks to the amplifier's AUDIO VCR-1 IN lacks and the video deck's audio input jacks to the amplifier's AUDIO VCR-1 OUT jacks using pin plug cords.

S-input jack to the amplifier's S-VIDEO OUT jack

using S-iack connection cords.

· A second video deck may be connected to the VCR-2 jacks in the same way.

The AVC-3020/2020 is equipped with VIDEO AUX jacks on

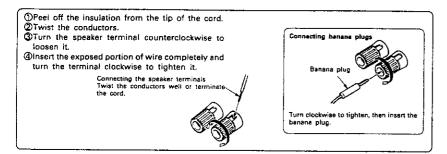
The connection method is the same as that for the VDP.

as other equipment to be connected

Speaker System Connections

- This amplifier can accommodate connections of a total of eight speakers including two sets of (front) main amplifier speakers (A and B), one set of rear speakers, and one or two center speakers.
- Connect the speaker terminals with the speakers making sure that like polarities are matched (⊕ with ⊕, ⊝ with ⊕). Mismatching of polarities will result in weak central sound, unclear orientation of the various instruments, and the sense of direction of the stereo being impaired.
- When making connections, take care that none of the individual conductors of the speaker cord come in contact with adjacent terminals, with other speaker cord conductors, or with the rear panel.

- Speaker Impedance
 - When speaker systems A and B are used separately, speakers with an impedance of from 6 to 16 ohms can be connected.
 - Be careful when using two pairs of front speakers (A + B) at the same time, since use of speakers with an impedance outside the range of 12 to 16 ohms will lead to damage.
 - Speakers with an impedance of 6 to 12 ohms can be connected for use as center and rear speakers.
 - The protection circuit may operate or damage may occur when speakers with an impedance outside of the above range are used.



Speaker connections using the PRE OUT and MAIN IN lacks

These jacks are used when a separate pre-main (power) amplifier is used to amplify the front, rear, and center sounds.

Table of outputs when using the PRE OUT lacks

Diagram number	Jack output	M	A!N	RE	AR	CENTER			
		SP-A SP-B	PRE OUT	SPEAKER	PRE OUT	SPEAKER	PRE OUT		
1	FRONT PRE OUT-MAIN IN	FRONT	×	REAR	REAR	CENTER	CENTER		
2	REAR PRE OUT-MAIN IN	REAR	FRONT	REAR	×	CENTER	CENTER		
3	None	×	FRONT	REAR	REAR	CENTER	CENTER		

Using a second pre-main (power) amplifier 2 Center (one or two speakers) Shorting pint ወወ≕.ወ⊜ 3 Center (one or two speakers) Front L Front R 00 - 00(power) DO NOT connect unused shorting pins to other jacks. Doing so will result in damage or faulty operation. 4 Using other equipment T-295BS, etc. External audio input jacks of monitor TV Speakers with built-in amplifiers (DENON SC-P5, etc.)

The optimum delay time will differ depending on the listening position. Referring to the chart at right, set the optimum delay time for your room's space and setting position. For example, when the distance from the front speakers to the listening position is 6 m and that from the rear speakers to the listening position is 4 m, the optimum delay time will be 20 ms.

The variable range of the delay time differs depending on the mode.

For details about the variable range, see Page 14.

Adjustment of the INPUT BALANCE control
 The INPUT BALANCE control must be adjusted for
 proper Pro-logic reproduction.

1. Auto Balance Mode

When using the Dolby Pro-logic or Spectarea modes, normally set the AUTO BALANCE switch on and this will cause "AUTO BALANCE" to light up on the multi-function display.

2. Manual Mode

When you would like to adjust the INPUT BALANCE control and not use the auto balance function, adjust as follows:

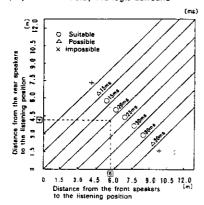
①Set the Dolby Pro-logic surround mode. ②Set the center mode to center off.

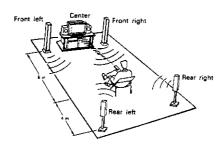
Play back the speech portion of a film or some other source and adjust the INPUT BALANCE control so that a minimum amount of sound leaks from the front and rear speakers.

This completes the adjustment.

The center mode can be switched to suit the speaker system.

Listening position and optimum delay time for playback with Dolby Pro-logic surround

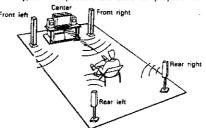




The on-off switching of the speaker outputs (speaker A, speaker B, rear, and center), the setting of the delay time, and the volume adjustment of the rear and center speakers can be set for each surround mode.

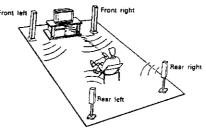
Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S. numbers 3,632,886, 3,746,792 and 3,959,590; Canadian numbers 1,004,603 and 1,037,877. "Dolby" and the double-D symbol ©C are trademarks of Dolby Laboratories Licensing Corporation.

 Speaker arrangement and Dolby Pro-logic and the center mode ideally, center speakers are used for playback of Dolby Pro-logic surround.



NORMAL mode

Normal mode: This mode is suited for an arrangement in which the center channel speakers are smaller than the left and right speakers. Signals below 100 Hz which have almost no effect on directional orientation are distributed to the left and right channels, whereas the center channel outputs signals greater than 100 Hz. As a result, the bass of the left and right channels increases the apparent deepness of the sound.



PHANTOM mode

Phantom mode: Use this mode when center channel speakers are not used. A directional emphasis circuit provides signal reproduction which is electrically oriented to the center and this provides an exciting sound field for your enjoyment.

• Test Tone

The test tone function is used to generate a test signal for adjusting the level of each channel in the Dolby Pro-logic surround mode.

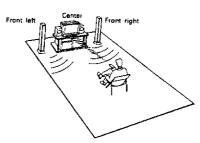
Before using Dolby Pro-logic surround, arrange the speakers as illustrated above and follow the procedure given here. Using the test tone, set the optimum volume balance for each speaker and set the volume and other controls so that each speaker can be heard at the same level.

In the normal and wide modes the test tone is provided as the speakers are switched in the following order:

--- Front left -- Center -- Front right -- Rear-

WIDE mode

Wide mode: This mode is suited for an arrangement in which the center channel speakers are of the same grade as the left and right speakers. The entire sound band from low region to high is output to the center channel to provide an exciting sound field for your enjoyment.



3-CH LOGIC

Three-channel logic mode: Use this mode when rear channel speakers are not used. The rear channel information is fed to the front speakers to provide the surround effect.

Use this signal to adjust the volume balance and set an optimum balance.

in the phantom mode the test tone is provided as the speakers are switched in the following order:

→Front left → Front left and right → Front right →

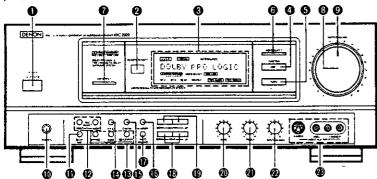
In the 3-ch logic mode the test tone is provided as the speakers are switched in the following order:

+Front left → Center → Front right

Note that this amplifier provides the test tone at 4-second intervals for the first two cycles. Use the remote control unit (RC-134) for the adjustment of the test tone.

6 PART NAMES AND FUNCTIONS

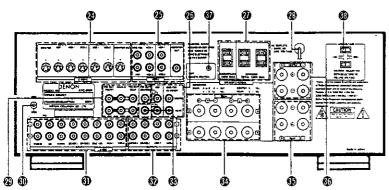
Front panel





Multi-function display Maximum display of 16 characters. (See pages 19~23)

Rear panel



POWER switch

ON

Pressing this button once will switch on the power and the MASTER VOLUME LED • will flash on and off (during which time the muting circuit operates to prevent the noise which would otherwise occur when the power switch is at "ON-STANDBY"). Several seconds after the power is switched on the LED will change from a flashing to a steadily lit state, the operation of the muting circuit is cancelled, and the amplifier enters the regular operating condition.

STANDBY

Pressing the button once again will switch off the power and introduce the standby mode in which the LED of MASTER VOLUME ② will be lit.

@ REMOTE SENSOR

This is the sensor of the wireless remote control unit.

Point the wireless remote control unit (R-134) at this sensor when operating it.

Multi-function display

When the power is switched on, the multifunction display shows the surround mode and input/output information.

Normally, one of the surround mode displays is shown. When another button is pressed, the display corresponding to that button appears for about 5 seconds. After this, the display returns to the surround mode display. For details on the multi-function display, see

Pages 19 to 23.

O VIDEO FUNCTION selector

(Video input selection button)

This button switches the input positions which have video input signals.

Pressing this button repeatedly or holding it down will change the input positions in the following order:

AUDIO FUNCTION selector

(Audio input selection button)

This button switches the audio input positions. Pressing this button repeatedly or holding it down will change the input positions in the following order:

PHONO → CD → TUNER → DAT/TAPE-1—

VIDEO SELECT

(Independent switching button for the video signal)

This button is used to switch the video signals independently of the audio signals.

Holding this button down will cause the video input signals to be switched in the order shown below. When the desired video input signal is displayed on the multi-function display, remove your finger from the button. Now, even if the AUDIO FUNCTION selector switched, the video signal will not change.

To cancel this condition, press the VIDEO SELECT button again or press the VIDEO FUNCTION selector **(3)**.

DBS/BS → VDP → VCR-1 → VCR-2 — V. AUX

VDP DIRECT button

This button is used to provide higher picture quality and higher sound quality of the video and audio signals which are input from equipment connected to the VDP jacks on the rear panel.

Pressing this button switches the amplifier as described below.

VDP direct standby

This is the standby period until the amplifier enters the VDP direct mode. Holding the button VDP DIRECT button down for about 3 seconds in this state will set the VDP direct mode. Releasing the button part way through will result in a return to the previous state.

VDP direct: V (VDP video direct)

Holding the button down in the VDP direct standby mode will cause the video signal to bypass the on-screen circuit and other circuits to be output directly to the monitor output. This provides higher quality video reproduction.

In this condition, video signal output for recording is automatically cancelled so that recording will not be possible by VTR, etc. The on-screen function will also be inoperative so that on-screen checks of the operating condition will not be possible.

Note that in this condition AUDIO REC SELECT (independent recording of the audio) is cancelled automatically and the signals from the equipment currently selected by the AUDIO FUNCTION selector of or the VIDEO FUNCTION selector of or the VIDEO FUNCTION selector of or the VIDEO FUNCTION selector of output to DAT/TAPE-1, DAT/TAPE-2, VCR-1, and VCR-2.

(VDP video and audio direct)

Pressing the VDP DIRECT button once more in the VDP video direct state will, in addition to the video signals, also bypass the audio signals from circuits which include the surround circuits and tone control circuits and output the signals to the front outputs to provide higher quality audio reproduction.

- * in this condition, audio signal output for recording is automatically cancelled so that recording will not be possible by tape geck, etc. The surround mode will also be cancelled automatically and only direct playback from the front speakers will be possible.
- · Cancellation of the VDP direct mode The VDP direct mode can be cancelled by pressing the VDP DIRECT button one more time in the VDP video and audio direct states or by pressing VIDEO FUNCTION @ or

Selecting the VDP direct mode automatically cancels REC OUT SELECT (independent video and audio recording). Also, this mode is automatically cancelled when the power is switched off.

MASTER VOLUME control

AUDIO FUNCTION 6

Turn the knob clockwise to raise the volume and turn it counterclockwise to lower it.

Master volume LED

This LED flashes during regular operation and during the muting condition, it is lit steadily during the standby condition.

PHONES jack

This lack is used for headphone connections. When you do not wish output from the speakers, switch off the output with the remote control unit or switch off the output of the component connected to PRE OUT.

DELAY TIME button

Press this button to select the delay time. Pressing this button will switch the delay time settings through the range of 0 to 130 ms in 0.5 ms steps and from 30 to 130 ms in 2.0 ms steps.

• For DOLBY PRO-LOGIC in the surround mode:

-- 20 ms -> 30 ms -> 15 ms ---

· For other surround modes (with the exception of LIVE):

REC SELECT

(Independent switching buttons for audio and video recording outputs)

These buttons provide a selection of the audio recording and video recording modes which is independent of the selection of the FUNCTION selector.

AUDIO button:

This button selects a signal output to the recording output jacks of DAT/TAPE 1 and 2, as well as VCR-1 and 2.

With regard to the recording output, the signal input normally selected by the FUNC-TION selector is output to the recording output side. Use of this button, however, permits selection of a signal from input jacks other than the FUNCTION selector jacks.

VIDEO button

This button selects a signal output to the recording output jacks of VCR-1 and 2. With regard to the video (audio) recording output. normally the video (audio) signal selected by the VIDEO FUNCTION selector @ is output. Use of this button, however, permits selection of an input signal other than from the VIDEO FUNCTION selector.

SURROUND buttons

Pressing this button selects the surround mode.

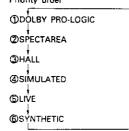
BYPASS button

Pressing this button will bypass the surround mode to provide regular stereo playhack

Rear output will not be provided.

MODE button

Pressing this button switches the surround mode in the following order: Priority order



DOLBY PRO-LOGIC (surround)

Use this setting when playing back video software recorded in Dolby surround. Switch the CENTER MODE to suit the speaker system in use.

The delay time may be switched in the range of 19 me to 30 me to suit the size of the room and the position of the speakers.

②SPECTAREA

Use this setting when playing back movie video software other than that using Dolby surround.

The delay time may be switched in the range of 0 ms to 130 ms.

(3) HALL (surround)

Use this setting to create the atmosphere of a concert hall.

The delay time may be switched in the range of 0 ms to 130 ms.

There will be no output from the center speaker position.

4)SIMULATED

Use this setting to play back sources recorded in monaural with surround.

There will be no output from the center speaker position.

The delay time may be switched in the range of 0 ms to 130 ms.

(5)LIVE

Use this setting to create the atmosphere of watching a live program in a studio. The delay time is fixed at 0 ms.

6SYNTHETIC

Use this setting to create an atmosphere in which sources recorded in stereo seem to have a further expanded breadth.

The delay time may be switched in the range of 0 ms to 130 ms.

CENTER MODE button

Press this button when DOLBY PRO-LOGIC has been selected.

When Dolby Pro-logic surround is used during playback, pressing this button will switch the center mode settings in the following order:

-① NÖRMAL → ② PHANTOM → ③ WIDE-- (4) CENTER OFF --

ONORMAL: Select this setting for playback with Dolby Pro-logic surround. This setting is effective when the center channel speakers are smaller than the left and right speakers.

②PHANTOM: Select this setting for playback

with Dolby Pro-logic surround without using the center speakers.

③WIDE:

Select this setting when the center channel speakers are of the same grade as the left and right speakers.

(4)CENTER OFF:

Select this setting when the input balance is adjusted manually.

See Pages 12 to 13 for information about speaker arrangement and the input balance adjustment method.

Œ A.V.S.E.

(Bass correction button)

This button is used to emphasize the bass range of the front speakers.

Setting this switch to ON when using movie video software provides even greater impressiveness. Use this function as desired.

CINEMA

(Treble correction button)

This button is used when playing back movie video software and the speech portion is felt to be harsh upon the ears.

This function attenuates the treble range of the center speaker.

The function cannot be used in the Phantom, Hall, Simulated, or Center Off modes.

HI-VISION

(Hi-Vision input switch for use with BS (broadcast satellite) broadcasts)

This function is to be used with future satellite broadcasts. The signals connected to the CEN-TER and REAR of the DBS/BS HI-VISION jacks on the rear panel do not pass through the surround circuits, but are output directly to the center and rear speakers. Note that this switch is effective only when the FUNCTION is set to DBS/BS.

AUTO BALANCE

(Input balance automatic adjustment button) This button can be used with the surround mode is set to Dolby Pro-logic or Spectarea. The button automatically corrects the level difference between the left channel and the right channel of the input signal.

REAR LEVEL volume buttons

Use these buttons to adjust the volume of the rear (surround) speakers.

Press to increase the volume.

. DOWN: Press to decrease the volume.

The volume will change only while the UP or DOWN button is pressed, and will stop when the button is released. The change in volume is displayed on the multi-function display or the superimposed display.

These buttons cannot be used in the bypass or Dolby Pro-logic (3-ch logic) modes.

CENTER LEVEL volume buttons

- UP: Press to increase the volume.
- DOWN: Press to decrease the volume.

The volume will change only while the UP or DOWN button is pressed, and will stop when the button is released. The change in volume is displayed on the multi-function display or the superimposed display.

These buttons cannot be used in the following modes: HALL, SIMULATED, PHANTOM mode of DOLBY PRO-LOGIC, and CENTER OFF mode.

BASS control

This control is used to adjust the bass level of the front speaker output or the PRE OUT FRONT jacks.

The bass is increased when the control is turned clockwise (\bigcirc) and decreased when turned counterclockwise (\bigcirc).

TREBLE control

This control is used to adjust the treble level of the front speaker output or the PRE OUT FRONT jacks.

The treble is increased when the control is turned clockwise $\{ \cap \}$ and decreased when turned counterclockwise $\{ \cap \}$.

② INPUT BALANCE control

This control is used to adjust the left/right input balance to provide effective surround playback. The INPUT BALANCE control functions as a front output balance in modes other than Dolby Pro-logic and Spectarea.

See Page 12 for information about the adjustment method.

VIDEO AUX INPUTS (External video input jacks)

Connect the component's S-output jack to the amplifier's S-VIDEO jack with a connection cord designed for S-jacks.

Connect the component's video output jack to the VIDEO jack with a 75-ohm coaxial cable pin plug cord.

Connect the component's audio output jacks to the AUDIO jacks with pin plug cords.

- S-VIDEO input/output jacks
- VIDEO input/output jacks
- TIMPUTS (audio input jacks)
- AC OUTLETS See Page 7.

(B) AC CORD (power cord)

- PRE OUT (FRONT, REAR, and CENTER), and MAIN IN jacks See Page 10.
- GND (ground connection terminal)
 Connect the ground wire of the turntable to this terminal
- (INPUTS (audio input lacks)
- **OUTPUTS** (audio output jacks)
- MONO (monaural output jack)

This jack is connected to the optional subwoofer or the TV's monaural audio input jack.

- MAIN SPEAKERS (main speaker terminals)
- REAR SPEAKERS (rear speaker terminals)
- © CENTER SPEAKERS (center speaker terminals)

 NOTE:

Center speaker terminals

This amplifier is equipped with a center channel output which can accommodate dual center speakers.

Pro-logic surround effects can be obtained with only one speaker wired to the left and right terminals, however, the use of two speakers with similar characteristics wired to both sets of left and right terminals will provide a more effective dual center channel output.

TAPE/REMOTE CONTROL

This terminal is exclusively used for sending the remote control signals to the tape deck. Connect it with a 3.5mm mini-jack cord.

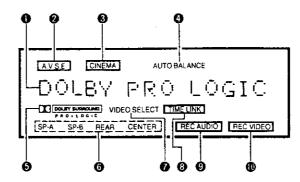
NOTE:

Do not hook up a headphones or microphone jack cord. Use this jack to connect a Denon cassette deck with a remote control jack (wired).

If the cassette deck does not have this jack, wired remote control is not possible.

LINE VOLTAGE (Line Voltage) Switch Multi Voltage model only.

Description of the Multi-function Display



MULTIFUNCTION DISPLAY

This display can show a maximum of 16 characters.

With each press of the remote control panel buttons, the set conditions are displayed in order.

Normally, the currently set surround mode is displayed. Display examples are presented on Pages 20 to 23.

A.V.S.E. indicator

Pressing the A.V.S.E. button causes this indicator to light up. Pressing the button again switches the indicator off.

6 CINEMA indicator

Pressing the CINEMA button (a) causes this indicator to light up. Pressing the button again switches the indicator off.

Note that this indicator will not light up when the surround mode is set to PHANTOM, HALL, SIMULATED, or CENTER OFF.

AUTO BALANCE indicator

Pressing the AUTO BALANCE button acuses this indicator to light up. However, it will only light up when the surround mode is set to DOLBY PRO. LOGIC or SPECTAREA.

O DOLBY SURROUND indicator

This indicator will light up when the SUR-ROUND mode button (a) is pressed and DOLBY PRO. LOGIC is selected.

6 OUTPUT CHANNEL indicator

This indicator shows the channel of the speakers to which the output is currently being sent.

VIDEO SELECT indicator

This indicator lights up when the video input signal is selected independently of the audio signal.

TIME LINK display

TIME LINK is automatically displayed when the Dolby time tink digital delay system operates.

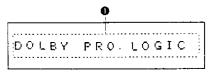
REC AUDIO | indicator

REC AUDIO is displayed when an audio signal to be recorded is switched independently by the REC OUT SELECTOR.

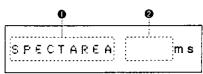
REC VIDEO indicator

REC VIDEO is displayed when a video signal to be recorded is switched independently by the REC OUT SELECTOR.

The modes shown reflect the states resulting from pressing the buttons on the front panel of the amplifier or by operating the remote control unit (RC-134).







1. SURROUND MODE display

- (1) DOLBY PRO. LOGIC
- O DOLBY PRO. LOGIC, DOLBY 3-CH. LOGIC
- O NORMAL, PHANTOM, WIDE, CENTER OFF
- O DELAY TIME

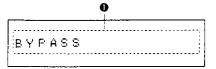
DOLBY PRO. LOGIC settings between 15 ms and 30 ms will be displayed in 0.5 ms steps. DOLBY 3-CH. LOGIC is not displayed.

(2) Other SURROUND MODE displays

 These displays will be shown during surround modes such as those listed below.
 SPECTAREA, HALL, SIMULATED, SYNTH-ETIC:

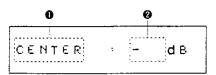
0 ms to 30 ms settings are displayed in 0.5 ms steps and 30 ms to 130 ms settings are displayed in 2.0 ms steps.

LIVE: fixed at 0 ms



(3) BYPASS display

This display is shown in the bypass mode.

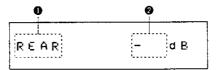


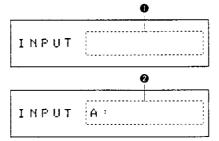
2. CENTER LEVEL display

- This display is shown when the CENTER LEVEL button is pressed.
- ②The display is in 2 dB steps from −48 dB (minimum) to 0 dB (maximum).

- NOTE: -

This display is only shown in modes that use the center speakers.





3. REAR LEVEL display

the rear speakers.

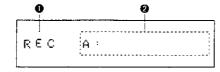
- The display will be shown when the REAR LEVEL button is pressed.
- The display is in 2 dB steps from -48 dB (minimum) to 0 dB (maximum).

- NOTE:

This display is only shown in modes that use

4. INPUT display

- Pressing the FUNCTION button (AUDIO or VIDEO) will cause "INPUT" to be displayed after which the function name will be displayed.
- When the function name has been preset by system entry, the entry name will be displayed.
- When the video signal has already been established with VIDEO SELECT, switching over to AUDIO FUNCTION will result in 3-second displays of the audio input and the video input.



5. REC OUT display

- REC SELECT The display will be shown when AUDIO or VIDEO is pressed.
- Audio outputs (A)

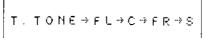
The signals selected from among the following will be displayed: PHONO, CD, DAT/TAPE-1, DAT/TAPE-2, DBS/BS, VDP, VCR-1, VCR-2, and V-AUX.

SOURCE is normally displayed.

O Video outputs (V)

The signals selected from among the following will be displayed: DBS/BS, VDP, VCR-1, VCR-2, and V-AUX.

SOURCE is normally displayed.



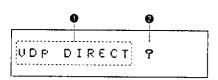
6. TEST TONE display

 This display will be shown when the TEST TONE button of the remote control unit is pressed.

The arrow mark will move in conjunction with the output.

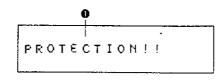
This display will continue until the test tone is switched off.

AVC-3020/2020/2020



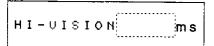
* 7. VDP DIRECT display

- The display will be shown when the VDP DIRECT button is pressed. Holding the button down for 3 seconds or longer will establish the display, and the video direct state will be set. Pressing the button again will also set the audio in the direct state.
- The display is shown during VDP DIRECT standby. When established, it will go off, and the VDP DIRECT mode will cause the display to change.



10. PROTECTION display

This display is shown when the protection circuit is activated.
See Page 24 for details.



8. Hi-VISION display

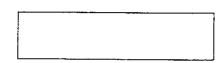
 When FUNCTION is set to DBS/BS, pressing the HI-VISION button will show the display.



9. MUTING display

This display will be shown when the MUTING button of the included remote control unit is switched on.

The display will continue until the muting is cancelled.



11. MULTIFUNCTION display off

Follow this procedure when the multi-function display is not required.

Holding down the "PANEL" button on the remote control will cause the multi-function display to continue to change and go off at the end. When this condition is set and a switch is operated, the associated display is shown and then the display automatically goes off.

To return to the normal display, press the "PANEL" button of the remote control once again.

7 OPERATION

- · Preparations for playback
- 1. Checking connections
- Referring to the connection diagrams (Pages 6 to 11) check to make sure that the connections are made properly.
- Check that the left and right speakers are connected properly and also that the polarity (⊕,
 →) is correct.
- Check that the left and right sides of the pin plug cords are connected properly.
- · Check that each cord is securely connected.
- . Check that each cord is of the proper type.

- 2. Checking the positions of the controls (See Pages 14 to 18 for a reference to the circled numbers.)
- Turn the MASTER VOLUME control fully counterclockwise to the "0" position.

After making the above checks, press POWER switch $\boldsymbol{0}$ to switch on the power.

The amplifier will be operable when the LED of the MASTER VOLUME control stops flashing after several seconds of muting.

Note on playback

The sound will be interrupted if one of the FUNCTION selector buttons (3 (3) is pressed during playback. This is due to the operation of the muting circuit which prevents noise from being amplified at the time of switching, and is not a malfunction.

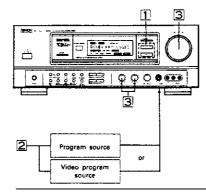
When using the accompanying remote control unit, press the corresponding button.
 For details, see Page 28 of Section 8 REMOTE CONTROL UNIT.

Protection Circuit

This amplifier is provided with a high-speed protection circuit. This circuit protects the internal circuitry from large currents which may be created by the output signals when the speaker terminals are not completely connected or are short-circuited.

The operation of this protection circuit automatically cuts off the output to the speakers and displays "PROTECTION!" on the multi-function display and on the superimposed display. If this should happen be sure to unplug the power cord, check the speaker connections, then plug in the power cord and switch on the power again. If, after another check, the "PROTECTION!" display comes on again, contact your store of purchase.

Playback of program sources – 1 (Picture and sound from same source)



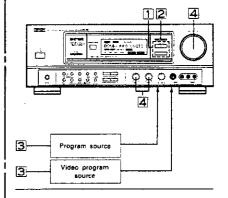
 Select the desired program source by pressing the AUDIO FUNCTION selector button or the VIDEO FUNCTION selector button.

AUDIO FUNCTION

Program source	SELECTOR
To listen to a record	PHONO
To listen to a CD	CD
To listen to FM or AM broadcests	TUNER
To listen to the DAT or tape deck connected to the DAT/TAPE-1 jacks	DAT/TAPE-1
To listen to the DAT or tape deck connected to the DAT/TAPE-2 jacks	DAT/TAPE-2
Video program source	VIDEO FUNCTION SELECTOR
To watch a satellite broadcast	DBS/BS
To watch the video disc player connected to the VDP jacks	VDP
To watch the video deck connected to the VCR-1 jacks	VCR-1
To watch the video deck connected to the VCR-2 jacks	VCR-2
To watch the video camcorder equipped with playback function or another component connected to the (front panel) VIDEO-AUX jacks	V-AUX

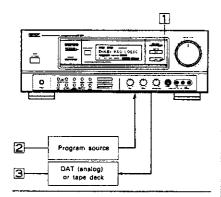
- Begin playback of the program source. For operating details, see the manual of the respective component.
- 3 Adjust the volume and tone.

Playback of program sources – 2
 (Picture and sound from different sources – "Simulcast" playback)



- Select the program source you wish to listen to with the AUDIO FUNCTION selector or the VIDEO FUNCTION selector.
- Hold down the VIDEO SELECT button for the video program source you wish to watch.
- Begin playback of the program sources.
 For operating details, see the manual of the respective component.
- 4 Adjust the volume and tone.
- Note that when the VIDEO FUNCTION button is again used to select the video program source during Simulcast playback, the Simulcast playback will be cancelled automatically.

 Recording program sources and copying tapes (Recording the audio source currently being monitored)



Press the AUDIO FUNCTION selector (audio input selection buttons to select the program source you wish to record.

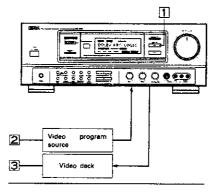
Program source	AUDIO FUNCTION SELECTOR
To record a record	PHONO
To record a CD	CD
To record from the tuner	TUNER
To record from the OAT or tape deck connected to the DAT/TAPE-1 jacks	DAT/TAPE-1
To record from the DAT or tape deck connected to the DAT/TAPE-2 jacks	DAT/TAPE-2

- Begin playback of the program source you wish to record.
- Begin recording on the tape deck or DAT (analog).
 For operating details, see the manual of the respective component.

For instructions on copying tapes, see Page 27.

4. Recording video program sources and copying videos

(Recording the sound and picture of the video source currently being monitored)



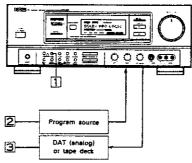
Press the VIDEO FUNCTION selector to select the program source you wish to record.

VIDEO FUNCTION SELECTOR
DBS/BS
VDP
VCR-1
VCR-2
V-AUX

- Begin playback of the video program source you wish to record.
- Begin recording on the video deck.
 For operating details, see the manual of the respective component.
- · Simultaneous recording

The signals from the sources selected by the FUNCTION selector are output simultaneously from the REC OUT jacks of the audio and video systems. If two tape decks and two Hi-Fi video decks are connected and all four components are set to the recording mode, the four components will record the same source simultaneously.

 Independent recording of program sources and independent tape copying (Recording the sound of a source other than the one currently being monitored)



 Hold down the REC SELECT AUDIO button (which independently selects the recording output). Program sources for independent recording will be displayed.

Select the audio program source for independent recording by releasing your finger from the button when the desired source is displayed.

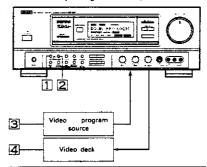
The display will be switched in the following order:

- Begin playback of the program source to be recorded.
- Begin recording on the tape deck or DAT (analog). For operating details, see the manuals of the respective components.
 - * Pressing the REC SELECT AUDIO button again will cancel this mode.
- Monitoring the recording

When making a recording using a 3-head tape deck, the sound that has actually been recorded on the tape can be checked. After completing the above settings, use the AUDIO FUNCTION selector to select DAT/TAPE-1 or -2 to which the 3-head deck is connected.

* Note that 5, 6, and 7 cannot be set during the VDP direct mode.

 Independent recording of video program sources and independent video tape copying-1 (Recording the picture of a source other than the one currently being monitored)



Hold down the REC SELECT VIDEO button (which independently selects the recording output). Program sources for independent recording will be displayed.

Select the video program source for independent recording by releasing your finger from the button when the desired source is displayed.

The display will be switched in the following order:

- Begin playback of the video program source to be recorded.
- Begin recording on the video deck.
 For operating details, see the manuals of the respective components.
 - * Pressing the REC SELECT VIDEO button again will cancel this mode.
- 7. independent recording of video program sources and independent video tape copying-2 (Simulcast recording)

Combining the above procedures, the video and audio programs of different sources can be recorded (Simulcast recording).

- Hold down the REC SELECT VIDEO button and release your finger when the video program source you wish to record is displayed.
- [2] Hold down the REC SELECT AUDIO button and release your finger when the video program source you wish to record is displayed.
- Begin playback of the program sources.
- 4 Begin recording on the video deck.

8 REMOTE CONTROL UNIT

1. Open the bottom cover of the remote control unit and remove the battery cover.



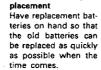
2. Insert the four R6P/AA batteries, matching the and O marks on the batteries with those in the case.



3. Close the bottom cover until it clicks shut.



MA note on battery re-



The codes that have been learned may be lost if removed batteries are not replaced within about 5 minutes.

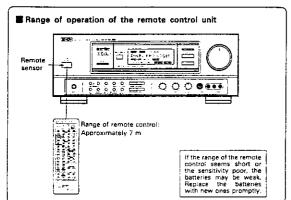
■ Using the remote control unit

The remote control unit uses highly linear infrared rays. Point it at the amplifier's remote sensor when operating it. The amplifier will not operate if the remote sensor is covered or if there is an obstacle between the remote control unit and the Sensor

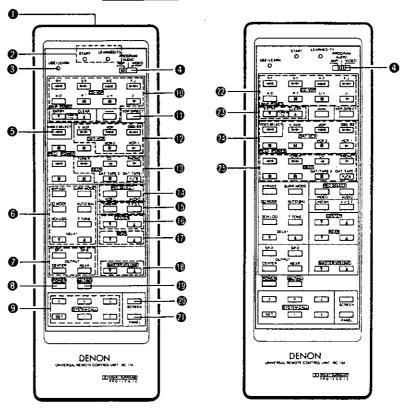
Also note that strong light shining on the remote sensor may result in mistaken operations. In addition, using the amplifier near neon signs which generate pulse type noise may result in mistaken operations, so keep the amplifier as far as possible from such neon signs.

■ Cautions for batteries

- Be sure that the ⊕ and ⊖ ends of the batteries. match the marks on the battery case of the remote control unit.
- · Replace weak batteries as soon as possible.
- . Do not mix new batteries with used ones.
- . Do not use batteries of different types together. Note that some batteries of the same shape and size may provide different performance.
- · Some batteries are rechargeable, others are not. Read the battery instructions carefully.
- Do not connect the ⊕ and ⊖ ends of the batteries directly with metal objects. (Do not short-circuit the batteries.)
- . Do not disassemble, heat, or dispose of batteries in a fire. If the batteries should leak, carefully wipe off any fluid from the battery case, then insert new batteries.







1 Transmitting window The remote control signals (infrared rays) are sent from this window.

-Display plate: -

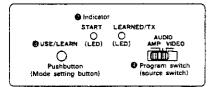
The display plate for the remote control unit is included in the bag containing the Operating Instructions. Use the display plate when using the learning mode and indicate the codes stored at the different keys.

Since the entered characters may rub off, when the display plate is used for a long period of time the characters should be protected with cellophane tape, etc.

A pencil eraser may be used to simply erase the button indications when you wish to change them.

29

Follow the procedure described below to use the learning function of the remote control unit.



Operation

1. USE/LEARN select button 6

Press this button with the tip of a pen, etc. to set the learn mode.

The START and LEARNED/TX LEDs in the indicator section **@** will start flashing to indicate that learning is possible.

- Set the PROGRAM switch to the desired side, PROGRAM AUDIO or VIDEO.
- Hold the transmitting windows of both your remote control unit and the RC-134 facing each other about 5 cm apart.
- Press the button of the RC-134 to which you wish to store the code for 1 to 2 seconds, then release it. The LEDs will stop flashing and the START LED will remain lit.
- Check that the START LED @ is lit, then hold down the corresponding button on the other remote control unit.
- Release the button when the START LED @ goes
 off and the LEARNED LED lights up. The code has
 now been stored. The two LEDs will once again
 start flashing.

Use this procedure to store other codes at other keys.

NOTE: -

- If the code cannot be stored, the LEARNED LED will not light after the START LED has gone off. This may occur for a very limited number of models.
- If the memory is overloaded, both LEDs will start flashing rapidly after the START LED lights up. If this happens, no more codes can be stored.
 Use the reset operation to re-learn codes.
- Repeat steps 4 through 6 above to store codes at other keys.

 After the learning operations are completed, press the USE/LEARN switch again. The two LEDs will stop flashing and the unit will be in the transmit mode. Check that the stored codes function properly.

The buttons for which learning is possible are 54 buttons with the PROGRAM switch set to AUDIO, and 54 buttons with the PROGRAM switch set to VIDEO, which makes a total of 108 buttons (maximum).

- NOTE:

Depending on the type and length of the codes to be learned, it may not be possible to use all 108 buttons for learning.

Clearing operation For individual sources

- Press the USE/LEARN switch (a) with the tip of a pen, etc., to set the learn mode.
- Set PROGRAM switch to the side of the source you wish to clear (either AUDIO or VIDEO).
- 3. Hold down the POWER ③ and REAR ④ ▼ buttons at the same time for at least 4 seconds.
- The START and LEARNED LEDs will light for 2 seconds, then go off when all learned codes for that source are cleared.
 If the course is PROCEDAM ALIDIO as MIDEO.

If the source is PROGRAM AUDIO or VIDEO, the remote control unit will be set to the initial codes (DENON system codes).

For all sources

- Press the USE/LEARN switch with the tip of a pen, etc., to set the learn mode.
- The PROGRAM switch may be set to any one of AMP, AUDIO, or VIDEO.
- 3. Press the MUTING button

 and the REAR

 button

 at the same time for at least 4 seconds.
- When the START and LEARNED LEDs alternately light up 6 times, all learning codes will have been cleared.

Note the initial codes (DENON system codes) will be set.

Remote control operation

- 1. Check that both LEDs are off.
- If both LEDs are flashing or if the START LED is lit, press the USE/LEARN button to switch them off.
- 2. When a remote control operation button is pressand the LEADMINITY IED will be transmitted.

Description of AVC-3020/2020 code buttons

VIDEO SELECT

(Independent switching button for the video signal)

(This button has the same function as the corresponding button on the amplifier.)
This button is used to switch the video signals

This button is used to switch the video signals independently of the audio signals.

Holding this button down will cause the video input signals to be switched in the order shown below. When the desired video input signal is displayed on the multi- function display, remove your finger from the button. Now, even if the AUDIO FUNCTION selector **@** is switched, the video signal will not change.

To cancel this condition, press the VIDEO SELECT button again or press the VIDEO FUNCTION selector .

6 SURROUND buttons

(Same function as on amplifier; see Pages 16 to 17.)

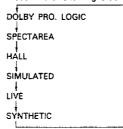
BYPASS button

Pressing this button will bypass the surround mode to provide regular stereo playback.

Rear output will not be provided.

SURROUND MODE button

Pressing this button switches the surround mode in the following order:



The first selection following BYPASS is DOL-BY PRO. LOGIC.

DO Dolby Center MODE button
This button is only effective when the surround mode is set to DOLBY PRO. LOGIC.
Pressing this button will switch the Dolby center mode settings in the following order:
NORMAL — PHANTOM — WIDE

CENTER OFF

• TEST TONE button

This button produces a test signal for adjusting the level of each channel in the Dolby Pro-logic surround mode.

The test tone is switched as follows:

Front left - Center - Front right - Rear;

This signal is used for adjusting the volume balance.

For details, see Page 13.

• 3-CH LOGIC button

This button is used for playing back a video source recorded using Dolby surround without using the rear speakers.

Switching this button on combines the rear speaker audio with that of the front speakers. Pressing the button once more switches this function off and returns the set to normal operation.

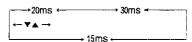
DELAY TIME button

This button sets the delay time.

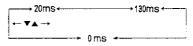
This button is only effective when the surround mode is on.

Pressing this button switches the delay time between 0 and 30 ms in 0.5 ms steps and between 30 and 130 ms in 2.0 ms steps. Pressing the ▲ side increases the delay time. Pressing the ▼ side decreases the delay time.

The following sequence is provided in the Dolby Pro-logic mode:



The following sequence is provided in other surround modes (not including LIVE):



These buttons switch the speaker outputs on and off. The settings are displayed on the multi-function display and the superimposed display.

SP-A:

Operates the speaker system connected to the front speaker output terminals "A."

• SP-8

Operates the speaker system connected to the front speaker output terminals "B."

. CENTER: Operates the speaker system connected to the center speaker output terminals, and the center preout terminals.

REAR:

Operates the speaker system connected to the rear speaker output terminals, and the rear pre-out terminals.

POWER button (Same function as on ampli-

If the amplifier is plugged into an AC outlet this button can be used to switch it to ON and STANDBY.

When pressed, the amplifier becomes operative. Pressing the button again activates the last function memory, which holds the settings for the various components as they were immediately before the standby condition, so that there is no need to perform complicated resettinas.

When the power is switched off, the power supply to the SWITCHED AC outlets on the rear panel is also turned off.

SYSTEM CALL buttons See Page 35.

SYSTEM ENTRY buttons See Page 34 to 36.

VIDEO SELECT button

(Same function as on amplifier.) Holding down the VDP DIRECT button for 3 seconds or longer will set this mode.

Higher grade video and audio will be provided since the video and audio signals output from the equipment connected to the VDP jacks of the rear panel will be output directly. See Page 15 for details.

VIDEO INPUT selection buttons

These buttons select the input signals of the video components.

These buttons select the input signals and switch the video signals.

Press this button to use the BS

jack. VDP: Press this button to play back the VDP connected to the VDP

jack.

 VCR-1: Press this button to play back the video deck connected to the

VCR-1 jack

 VCR-2: Press this button to play back the video deck connected to the

VCR-2 jack.

Press this button to play back a video camcorder equipped with a playback function, or some other component that is connected to one of the front panel iacks.

tuner connected to the DBS/BS

AUDIO INPUT selection buttons

These buttons select the input signals of the audio components.

PHONO:

V-AUX:

Press this button to play back the turntable connected to the PHONO jacks.

CD:

Press this button to play back the CD player connected to the CD lacks.

TUNER: Press this button to play back the tuner connected to the TUN-ER jacks.

DAT/TAPE-1:

Press this button to play back the DAT or tape deck connected to the DAT/TAPE-1 jacks.

DAT/TAPE-2:

Press this button to play back the DAT or tape deck connected to the DAT/TAPE-2 jacks.

REC SELECT buttons

(Independent switching buttons for audio and video recording outputs)

(Same function as on amplifier,)

These buttons provide a selection of the audio recording and video recording modes which is independent of the selection of the FUNCTION SELECTOR.

. AUDIO button:

This button selects a signal output to the recording output jacks of DAT/TAPE 1 and 2, as well as VCR-1 and 2.

With regard to the recording output, the signal input normally selected by the FUNCTION SELECTOR is output to the recording output side. Use of this button, however, permits selection of a signal from input jacks other than the FUNCTION SELECTOR jacks.

VIDEO button

This button selects a signal output to the recording output jacks of VCR-1 and 2. With regard to the video recording output, normally the video signal selected by the VIDEO FUNC-TION selection button (a) is output. Use of this button, however, permits selection of a signal from input jacks other than the VIDEO FUNC-TION SELECTOR jacks.

TONE CONTROL buttons

(Same function as on amplifier.)

 CINEMA (Treble correction button) This button attenuates the treble range of the

center speaker. The function cannot be used in the Phantom.

Hall, Simulated, or Center Off modes.

A.V.S.E. (Bass correction button)

This button is used to emphasize the bass range of the front speakers.

CENTER level control

These buttons are used to adjust the level of the center output.

Pressing the A side button increases the volume of the center level.

Pressing the w side button decreases the volume of the center level.

These buttons cannot be used in the Phantom. Hall, Simulated, or Center Off modes.

REAR level control

These buttons are used to adjust the level of the rear output.

Pressing the A side button increases the volume of the rear level.

Pressing the ▼ side button decreases the volume of the rear level.

These buttons cannot be used in the Bypass or 3-ch Logic modes.

MASTER VOLUME control

These buttons are used to adjust the master volume level.

Pressing the A side button turns the master volume control of the amplifier clockwise. increasing the overall volume level.

Pressing the w side button turns the master volume control of the amplifier counterclockwise, decreasing the overall volume level.

MUTING button

Pressing this button cuts off the outputs from the PRE OUT jacks and the speakers.

The MASTER VOLUME LED will be flashing during the muting condition. Pressing this button once will set the muting, another press will cancel the muting, the next press sets the muting, and so on.

SCREEN button

Pressing this button provides a superimposed display of the current operating condition on the monitor screen.

Pressing this button will switch the superimposed display.

For details, see Pages 38 to 40.

PANEL button

Pressing this button provides a display of the current operating condition on the multifunction display.

Pressing this button will switch the multifunction display.

For details, see Pages 20 to 23.

Description of DENON System Code buttons

When the PROGRAM switch ♠ is set to AUDIO, the DENON component system code buttons are set to buttons ♠ through ♠, and when set to VIDEO, the code buttons are set to ♠.

When the PROGRAM switch @ is set to AUDIO

CD player system buttons

These buttons directly control the DENON remotely-controlled CD players.

The buttons have the same functions as the buttons on the CD player.

▶ PLAY button

Press this button to begin playback.

STOP button

Press this button to stop playback.

II PAUSE button

Press this button to pause.

← (Manual search reverse button)

>> (Manual search forward button)
Press these buttons for manual search in the

Press these buttons for manual search in the forward or reverse directions.

I◀ (Auto search reverse button)

I (Auto search forward button)

Press these buttons for auto search in the forward or reverse directions. Use them to find the beginnings of tracks.

When the PROGRAM switch @ is set to AUDIO

VDP system buttons

These buttons directly control DENON LD players and other remotely-controlled LD players. The buttons have the same functions as the buttons on the LD player.

Note that some equipment cannot be operated with this remote control unit.

▶ PLAY button

Press this button to begin playback.

STOP button

Press this button to stop playback.

← (Manual search reverse button)

Manual search forward button)

Press these buttons for manual search in the forward or reverse directions.

I◀ (Auto search reverse button)

▶ (Auto search forward button)

Press these buttons for auto search in the forward or reverse directions. Use them to find the beginnings of tracks.

TUNER system buttons

These buttons directly control tuners equipped for remote control.

- ▲ PRESET channel up button
- ▼ PRESET channel down button

These buttons change the preset channel.

② DAT system buttons

These buttons directly control the DENON remotely-controlled DAT.

The buttons have the same functions as the buttons on the DAT.

▶ PLAY button

Press this button to begin playback.

■ STOP button

Press this button to stop playback.

II PAUSE button

Press this button to pause.

◄ (Manual search reverse button)

(Manual search forward button)

Press these buttons for manual search in the forward or reverse directions.

I44 (Auto search reverse button)

▶►I (Auto search forward button)

Press these buttons for auto search in the forward or reverse directions. Use them to find the beginnings of tracks.

• REC (record button)

Use this button when recording.

DECK system buttons

These buttons directly control DENON cassette decks equipped for remote control.

The buttons have the same functions as the buttons on the cassette deck.

PLAY (REV) button (forward direction)

Press this button to begin playback in the forward direction.

◆ PLAY button (reverse direction)

Press this button to begin playback in the reverse direction.

■ STOP button

Press this button to stop the deck.

II PAUSE button

· REC button

These buttons have the same functions as the buttons on the cassete deck.

SELECT-A/B button

Use this button for selection of the deck when using a double deck.

≪ REW button

Press this button to rewind the tape.

FF button

Press this button to fast-forward the tape.

SYSTEM CALL buttons

 Using one button the SYSTEM CALL function permits continuous transmission of the codes of previously learned buttons for up to a maximum of 15 buttons.

SYSTEM CALL registration

- 1. Press the SET button. The START LED of the indicator section will start flashing.
- Set the PROGRAM button and then press up to 15 buttons that you would like to set to system call operation in the order that you wish to send them. Each time a button is pressed the LEARNED/TX LED will light. (The maximum number of buttons that can be stored is 15.)
- 3. Press one button you wish to have stored from among buttons 1 through 5.
- The START LED will go out and the buttons will have been registered.
- 5. Up to five buttons (11 through 5) can be

To continue the procedure and register another button, repeat the operations of steps 1 through 4.

NOTE:

The contents of the pressed buttons will also be sent during system call registration and so the transmitting window should be covered or some other precaution taken to avoid unwanted operation of the amplifier.

SYSTEM CALL cancellation

- Press the <u>SET</u> button and the START LED will begin flashing.
- 2. Press the button you wish to cancel among buttons 1 through 5.
- 3. The START LED will go out and the button will be reset.
- To continue the procedure and reset another button, repeat the operations of steps 1 through 3.

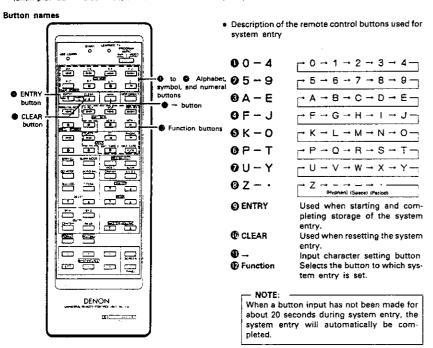
Using the SYSTEM CALL function

- 1. Press once one of the 11 through 5 buttons that have been registered for system call use.
- The LEARNED/TX LED will light. The remote control codes will be sent in the registered order approximately every 1.5 seconds.
- The LEARNED/TX LED will go out and the transmission will be completed.

Ō

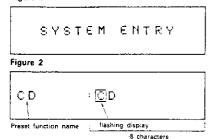


The system entry function is used in conjunction with the function buttons and permits the names of the
equipment used or some other information (up to 8 characters) to be stored and displayed.
 (Example: CD → DCD-1430, DAT/TAPE-1 → DR-70G, etc.)



SYSTEM ENTRY (registration)

Figure 1



Example: Enter DCD-1530 to CD.

- 1. Set the PROGRAM switch to AMP.
- 2. Press the ENTRY key 3.
- A display such as that shown in Figure 1 will appear on the multi-function display of the amplifier.
- When the CD button

 to which system entry is desired, is pressed within 10 seconds, the CD and flashing display will appear as shown in Figure 2.
- To input the letter D, press the A-E button ⑤ four times and the D will be displayed. Pressing the → ⑥ will input the D and the flashing space will move to the right.

Figure 3

CD : DCD-1530

Figure 4

SYSTEM ENTRY END

SYSTEM ENTRY CLEAR method

Figure 5

CLEAR MEMORY ?

Superimposed display

Figure 6

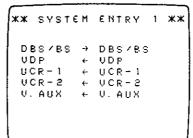


Figure 7

** SYSTEM ENTRY 2 **

PHONO + PHONO
CD + CD
TUNER + TUNER

D/T-1 + D/TAPE-1
D/T-2 + D/TAPE-2

- To input the letter C, press the A-E button three times and the C will be displayed. Pressing the → button will input the C and the flashing space will move to the right.
- 6. To input the letter D, press the A-E button
 four times and the D will be displayed. Pressing the →
 button will input the D and the flashing space will move to the right.
- Using the same method, enter the remaining characters by pressing the alphabet, symbol, and numeral buttons ① through ② for the hyphen, 1, 5, 3, and 0. (See Figure 3.)
- Pressing the function button CD once again will store the contents in the currently registered function CD.
- Repeat steps 1 through 8 and store the system entry to another function button.
- Hereafter, the function display will be displayed as the name entered in the system entry.
- Press the ENTRY button and complete the operation.
- The same procedure is used to change registered contents.

For one function button at a time

- 1. Press the ENTRY button (9.
- Press the function button pyou wish to clear and it will be displayed.
- 3. Pressing the CLEAR button (1) will delete the system entry.

For all function buttons

- 1. Press the ENTRY button (9.
- Pressing the CLEAR button will make the display of Figure 5 appear. Holding the button down for 4 more seconds will delete all of the system entries.
- After the system entries have been cleared, press the ENTRY button when completing the ENTRY operation.
- System entries will be shown on the superimposed display the same as on the multi-function display.

When selecting DBS/BS through V. AUX of the VIDEO INPUT selector buttons with the function button, the contents of Figure 6 will be displayed. Similarly, when selecting PHONO through DAT/TAPE-2 of the audio INPUT selector buttons with the function button, the contents of Figure 7 will be displayed.

9 SUPERIMPOSING

The operating condition of the amplifier is displayed on the monitor TV when the power is switched on, when the SCREEN button of the remote control unit is pressed, when buttons are pressed, and at other times. When the power is switched on and the SCREEN button of the remote control unit is pressed, displays such as the following will appear.

With repeated presses of the SCREEN button the display will change in the following order: screen $1 \rightarrow$ screen $2 \rightarrow$ screen $3 \rightarrow$ system entry display \rightarrow OFF (and a repetition of this sequence).

For details on the system entry display, see Pages 36 to 37.

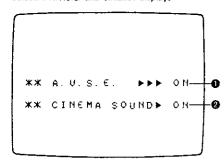
Note that when the power is switched on, screens 1 and 2 will be displayed for about 6 seconds and then go off automatically.

At the time of normal button operation, only the display pertaining to the pressed button is displayed for about 4 seconds and then goes off automatically.

NOTE

- Superimposed displays will not be output to S-jack monitor outputs and video signal outputs used for recording.
- For video inputs selected by a VIDEO INPUT selector button, the color background of the video will be cancelled following the completion of the superimposed display.

Screen-1 A.V.S.E. and CINEMA displays



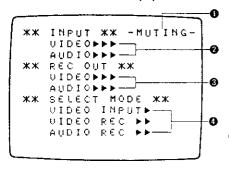
A.V.S.E. display

Displays the condition of the A.V.S.E. switch.

Q CINEMA display

Displays the condition of the CINEMA switch. Note that this display will only be shown for modes which use the center speakers.

Screen-2 INPUT & REC OUT display



Muting display

Flashes when the muting function is on.

@ INPUT SELECTOR display

Displays the amplifier's inputs using abbreviations, etc.

(When processed for system entry, the registered name is displayed.)

REC OUT SELECTOR display

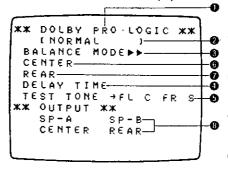
Displays the recording output. (When processed for system entry, the reg-

(When processed for system entry, the istered name is displayed.)

9 SELECT MODE display

Is displayed when the REC OUT SELECT mode, VIDEO SELECT mode, and other select modes are specified.

Screen-3 SURROUND & OUTPUT display



Character screen wavering of the superimposed

Depending on the video equipment and software,

some of the characters of the superimposed

display may be unstable due to noise or poorly adjusted tracking of the video equipment. Should

this happen, adjust the tracking of the video

SURROUND MODE display

Displays the surround mode.

CENTER MODE

The center mode is displayed only when the surround mode is set to Dolby Pro-logic.

BALANCE display

Displays the volume balance as auto or manual.

DELAY TIME display

Displays the delay time. There is no display in the BYPASS mode.

T. TONE display

A display is provided when the test tone is on.

@ CENTER LEVEL display

Displays the center level when a surround mode other than the Dolby Pro-logic Phantom, Hall, or Simulated is selected.

The marks increase as the level is raised.

REAR LEVEL display

Displays the rear level as **m** marks. There is no display in the bypass mode or at the time of Dolby 3-ch logic.

© OUTPUT display

Displays the various outputs when they are on.

1. PROTECTION display

NOTE: -

display

equipment.



Please turn off the Power switch and check the speaker or input terminal connections. • PROTECTION (circuit) display

This display appears when the protection circuit is activated.

See Page 24 for details.

(VDP DIRECT) STAND-BY

The Audio and Video record output signals are disabled when the VDP DIRECT function is on.

VDP DIRECT display

Displayed during the standby period until the amplifier enters the VDP direct mode. Upon entering the VDP direct mode, this display is cancelled and the on-screen functions cease to operate.

See Pages 15 to 16 for details.

10 TROUBLESHOOTING

If a problem should arise, first check the following:

- 1. Are the connections correct?
- 2. Have you operated the amplifier according to the Operating Instructions?
- 3. Are the speakers, turntable, and other components operating properly?

If the amplifier is not operating properly, check the items listed in the table below. Should the problem persist, there may be a malfunction. Disconnect the power immediately and contact your store of purchase.

	Symptom	Cause	Measures	Page
records,	LED not lit and sound not produced when power switch set to on.	Power cord not plugged in securely.	Check the insertion of the power cord plug.	8~11
listening to the CD,	LED it but sound not produced.	Speaker cords not securely connected. OUTPUT button is off. Improper position of the audio input selection button. Volume control set to minimum. MuTING is on.	Connect securely. Select SP-A, SP-B, CENTER, or REAR of the remote control's OUTPUT button. Set to a suitable position. Turn volume up to suitable level. Switch off MUTING.	6 29 24~27 14~16 33
ising when	LED continues flashing.	Speaker terminals are short-circuited. Incomplete connection of the shorting pin between PRE OUT and MAIN IN.	Switch power off, connect speakers properly, then switch power back on. Connect shorting pin property.	7 11
on problems arising and FM broadcasts	Sound produced only from one channel.	Incomplete connection of speaker cords. Incomplete connection of input/output cords. Left/right balance is off.	Connect securely. Connect securely. Adjust balance knob properly.	7 6-11 18
Common tapes, an	Positions of instruments reversed during stereo play- back.	Reverse connections of left and right speakers or left and right input/output cords.	Check left and right connections.	6~11

	Symptom	Cause	Measures	Page
	Humming noise produced when record is playing.	Ground wire of turntable not connected properly. Incomplete PHONO jeck connection. TV or radio transmission antenna nearby.	Connect securely. Connect securely. Contect your store of purchase.	6-7 -
When playing records	Howling noise produced when volume is high.	Turntable and speaker systems too close together. Floor is unstable and vibrates easily.	Separate as much as possible. Use cushions to absorb speaker vibrations transmitted by floor. If turntable is not equipped with insulators, use audio insulators (commonly available).	-
¥	Sound is distorted.	Stylus pressure too week. Dust or dirt on stylus. Cartridge defective.	Apply proper stylus pressure. Check stylus. Replace cartridge.	-
	Volume is weak.	MC cartridge being used.	Replace with MM cartridge or use a head amplifier or step-up transformer.	6
	Amplifier does not operate properly when remote control unit is used. (When LEARNED)	Batteries dead. Remote control unit too far from amolitier.	Replace with new batteries. Move closer.	28 28
	TX LED is lit)	 Obstacle between amplifier and re- mote control unit. 	Remove obstacle.	28
		Learning process to the button im- proper.	Set learning again.	30
ŧ		Different button is being pressed.	Press the proper button.	30
control	Amplifier does not operate properly when remote control	. Learning process to the button im-	Set fearning again.	30
E03	unit is used. (When LEARNED/ TX LED is not lift)	proper. Learning process has not been applied to the button.	Apply learning process.	30
Remote	LY FED IS UNK III)	Batteries deed.	Replace with new batteries.	28
je j		 ⊕ and ⊖ ends of battery inserted in reverse. 	 Insert batteries properly. 	28
		 Improper position of PROGRAM switch. 	 Set to desired position (AMP, AUDIO, or VIDEO). 	30
	"PROTECTION" display appaars on superimposed display and multi-function display.	Improper speaker cord connection.	Connect speaker cord property.	74. 39

11 LAST FUNCTION MEMORY

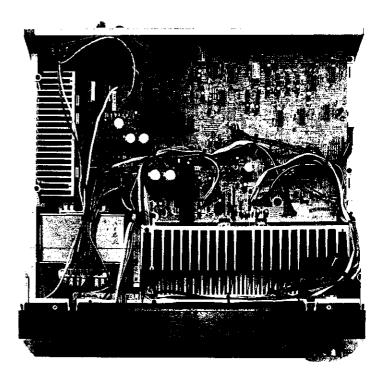
- This amplifier is equipped with a last function memory which stores the input and output setting conditions
 as they were immediately before the power is switched off.
- This function eliminates the need to perform complicated resettings when the power is switched on.

 This amplifier is also equipped with a back-up memory. This function provides approximately one day of memory storage with the power cord disconnected.

AVC-3020/2020/2020G

WIRE ARRANGEMENT

In case wires require unclamping or loosening to move the location to perform adjustment or part replacement, be sure to arrange them neatly to restore properly in the same location as they were originally placed. Or, it may occasionally cause to occur a noise.



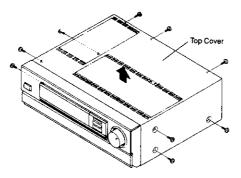
Note: Photo Shows wiring diagram for Asian Models, For U.S.A model, The power transformer is Substituted by a troidal transformer and the voltage selector portion is deleted.

DISASSEMBLY

(To reassemble reverse disassembly)

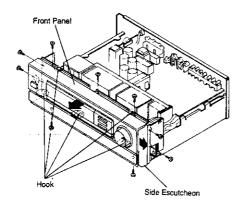
1. Top Cover

Remove 9 screws, and pull up the top cover to arrow direction.



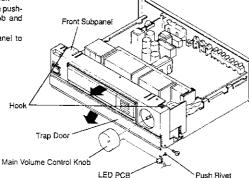
2. Front Panel

- (1) Remove 4 screws on the both sides, and pull the side escutcheon.
- (2) Remove 3 upper screws on Top Cover and 2 lower screws on Bottom Cover, then remove 5 hooks on the upper and middle stages, and pull the front panel to arrow direction.



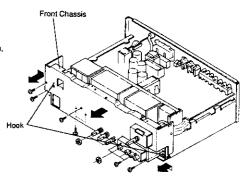
3. Front Subpanel

- (1) Remove 1 screw from the side and pull the trap door.
- (2) Remove a main volume control knob and remove a pushrivet from inside of the main volume control knob and detach LED PCB.
- (3) Remove 2 upper hooks and pull the front subpanel to arrow direction.



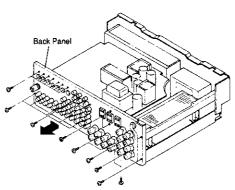
4. Front Chassis

- (1) Remove 4 nuts.
- (2) Remove 7 front screws ① and 2 lower screws ② .
- (3) While removing hooks on the both sides to arrow direction, pull the front chassis.



5. Back Panel

Remove 23 rear screws and 2 lower screws, and pull the back panel to arrow direction.



CIRCUIT DESCRIPTION

1. SYNCHRONOUS SIGNAL DISCRIMINATION & SEPARATION

TR713 sets ON at synchronous signal of the video signal. IC711 determines whether the synchronous signal is correct or not and separates the synchronous signal. When the synchronous signal separated by TR713 is correct, pin ® outputs "Hight", if not correct (no video signal input or the video signal includes noise, etc.) pin ® outputs "Low". When the "Low" output is applied to microcomputer (IC810), IC704 (M50554-001SP) is set to internal video color back.

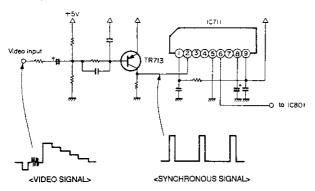


Figure 1

2. SURROUND CIRCUIT

(1) Table below shows output in each surround mode. Changes of output signal with select modes.

Table 1

SELECT MODE Condition		OFIM:			·vı	DEO	SELE	ECT	· AL	ЭDЮ	REC	:		DEC				DEO			• A	JDIC	SEL REC		· vr	OP DIE	RECT	ī
Output Signal Input Switch	AUDIO MONITOR	VIDEO MONITOR	AUDIO REC OUT	VIDEO RECIOUT	AUDIO MON	VIDEO MON	AUDIO REC	VIDEO REC	A. MON	V. MON	A. REC	V. REC	A. MON	V. MON	A REC	V. REC	A. MON	V. MON	A. REC	V. HEC	A. MON	V. MON	A. REC	V. REC	A. MON	V. MON	A. REC	V. REC
AUDIO FUNCTION	0	×	0	×	0	Δ	0	Δ	ם	×	Δ	∆ (×)	O	Δ	Δ	∆ (×)	٥	×	Δ	Δ	a	Δ	Δ	Δ	acc V	y ope eptab BP May)	ration le) X	× —
VIDEO FUNCTION	0	0	0	0	o	0	0	0	0	0	Δ	Δ (X)	0	0	Δ	Δ (×)	0	0	Δ	Δ	Ö	0	Δ	Δ				
VIDEO SELECT	Δ	0	Δ	0	Δ	5	relea: Δ tionec	Ъ	Δ	Q.	Δ	Δ (×)	Δ	ם	Δ	Δ (X)	Δ	0	Δ	Δ	Δ	۵	Δ	Δ				
AUDIO REC SELECT	Δ	Δ	0	×	Δ	Δ	O O	×	Δ	Δ	reid (Fu	REC RESO Inc- led)	Δ	Δ	rete (Fu	REC Base nc- med)	Δ	Δ	۵	Δ	Δ	Δ	a	Δ				
VIDEO REC SELECT	Δ	Δ	0	0	Δ	Δ	0	0	Δ	Δ	0	0	Δ	Δ	Δ	٥	Δ	Δ	A.R V.R rela (Fu	EC Mase nc-	Δ	Δ		EC MESO NC.				
VDP DIRECT	V(OP LAY)	×	×	V((RE		×	×	VI (RÉI	P AY)	×	×		OP LAY)	×	×	VI (REI	OP LAY)	×	×	VI (RE	DP LAY)	×	×	Ret	P DIR turn to ente	stati	

O Changes with other signal. D Changes inderpendently. A No Change. X Turns OFF. () shows the resultants.

Audio signal control status (Using SSM-2125)

		Surround mode signal control																SSM-2125 (PRO. LOGIC)				
·	Ľ	07823 °L Conte	Control etts			SSM-2 PRO. LO		LV 1000	(C	HD41 ENTER				Out	xxt Control		Delay Time Changeable range	DM:	DM ₂	DM ₃	DM₄	
MODE	1 2	3 4	5 6	7	CM ₁ R ₈₆	CM ₂ R _{P1}	(DELAY MUTE) Do	PASS /NR	O Place Ras	1 LH	2 H L	3 L L	D ₁₁ SP-A	D ₁₂ SP-8	D ₁₃ CENTER	D ₁₄ REAR	Chargeane lange	NOISE Rso	Psı	R ₅₂	Fl8s	
BYPASS	0	0		Ģ	L	L	н	н	нн	r H	нь	LL				L	_	н	L	L	L	
PRO. LOG NORMAL PHANTOM WIDE 3CH	[]	0	0 0 0		H L At C	H L H	L L H	L	0						PHAN. (L)	L	15 msec-30 msec	By PRO	. LOGK	т. то	DNE	
SPECTAREA HALL SIMULATED LIVE SYNTHETIC	0 0 0 0	0	0		H L L	H	н н н	H H H H H	•	0 0	00				L L		0 msec~130 msec Fixed to 0 msec 0 msec=130 msec	H H	H	L	н	
HIL VISION VDP DIRECT	0	•	0	0	L	L L	н	н	0			0			i.	L	@ msec~130 msec —	ļ	i	ļ		
	Balance AUTO	Front Sig. NJM2175	Normal Phase Surround Out Reverse Phase	VDP, DIRECT					Pro. Log.	C:L+R S:L-R	S: L+B	C. Hi Vislan C S: Hi Vision S		ixed to '			0 ~30 msec steps by 0.5 msec. 30 ~130 msec steps by 2 msec.		•			

At SPECTAREA mode, AUTO, BAL changes to ON/OFF feasible.

(2) Dolby Pro-logic surround circuit

AVR-3020/AVC-2020/AVC-2020G provides **Dolby pro-logic surround circuit** surround decoder which functions same as Dolby surround decoder for professional use. The circuit is also called **active decoder**, and it comprises a different circuit from **passive decoder**, conventionally employed for home use labelled as "Dolby surround." (Figure 2)

Directional enhancer to produce crisp sound image travel.

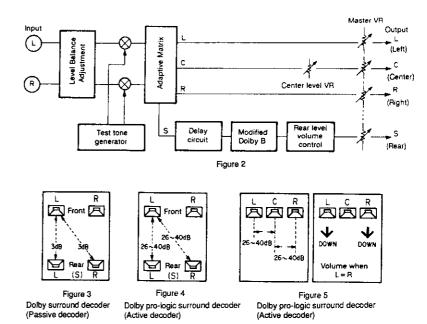
Main feature is **Directional enhancement circuit**. The conventional Dolby surround circuit is designed to control 3 channels (L-R-S), but this circuit provides a new center channel for 4 channels (L-R-C-S) control, and employs speaker system same as that of a theater to produce the sound effect.

A merit of directional enhancement circuit greatly improves the front and rear sound separation to provide a sharp and dynamic front and rear sound image traveling. Conventionally the front and rear separation is around 3 dB, but the pro-logic provides approximately 26 ~ 40 dB. (Figure 3, 4).

The directional enhancement circuit controls left, right, center and surround signals independently, and the sound image is very crisp and clear. With the conventional Dolby surround, the center sound image is nothing but compound of L and R channels, but the pro-logic has an independent center channel to produce the sound image, and achieved approximately 26 – 40 dB L and R channels separation. When the sound image is at center, both L and R channel output are cut down and as the sound image travels to L channel, center and R channel output are cut to enhance the travel of the sound as it is literally a directionally enhanced design.

Feature of Pro-Logic mode

- NORMAL: Signals in which below 100Hz is cut are applied to center channel, and the signals below 100Hz are applied to 1 and R front speakers. Employ L and R speakers of a certain grade (as a pointer, use ones better than book-shelf), and use a smaller speaker for the center channel.
- WIDE: Normal signal is applied to center channel as it is. Employ speakers of the same grade (better than book-shelf) for center channel as well as L and R speakers.
- PHANTOM: Center channel signals are evenly applied to L and R channels. When a center speaker is not available, this mode
 is employed. Even without the center channel, the directional enhancement circuit functions as it is.
- 3CH LOGIC: "3CH LOGIC" mode built in remote control is to enjoy the surround mode without the surround speaker. In normal
 pro-logic mode, rear (Sch) outputs reversed phase of Ech, Rch input, but in this mode the output is mixed with the front direction
 Lch and Rch outputs.
- TEST TONE (Remote control): Used to adjust output level of each channel.



Confirm Pro-logic circuit function

Confirm correct pro-logic circuit function with input signal shown in table below.

Measurement: Apply the correct input signal, and adjust level VR of master, center and rear, so that the level falls approximately
within * level, respectively.

	Input	Output		Mode							
	por	Обфа	Normal	Phantom	Wide						
	1	L.	* 0 dB (1 kHz)	→	→						
	L ch only] c [(a) Below -20 dB							
		R	(N	}							
		s	•	ormally approximately -2642 dB	,						
		L									
Pro- logic	R ch only	c		Same as (a)							
logic	,	R	* 0 dB (1 kHz)	→	→						
		s		Same as (a)							
	_	L	Below -20 dB/approx6 dB	0 dB	Same as (a)						
	L = R Same Phase	c	• 0 dB/approx. ~3 dB	Same as (a)	0 dB/0 dB						
	signal	R	Below20 dB/approx6 dB	0 dB	Same as (a)						
		s		Same as (a)							
	LR	L									
	Both CHs	C		Same as (a)							
	Reversed Phase signal	R									
		S	≠ +3 dB	→	→						
	L=-8	L	+ –3 dB	→	→						
3 ch	Both CHs	c [Same as (a)							
logic	Reversed Phase signal	R _	• –3 dB		→						
	_	S	•	Same as (a)							

* 1 kHz/100 Hz

ADJUSTMENT

Idling Current (1U-2193-1) (1U-2196-2)

Required measurement equipment: DC Voltmeter

Arrangement

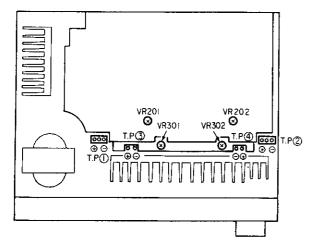
(1) Avoid direct blow from an air conditioner or an electric fan, and adjust the unit at normal room temperature 15°C ~ 30°C. (59°F ~ 86°F).

(2) Presetting

- POWER (Power source switch)
- → OFF (1)
- VOLUME (Volume control)
- → 0: fully counterclockwise (min.)
- BASS, TREBLE (Tone control)
- → 0: (Controls to center)
- SPEAKERS (Speaker terminal)
- → No load (Do not connect speaker, dummy resistor, etc.)
- (3) Remove top cover and set VR201, 202 (1U-2193-1 Main PCB); VR301, 302 (1U-2196-2 Center Amp PCB) to conterclockwise end position.

Adjustment

- (1) Connect DC Voltmeter to test points (Lch T.P.1, Rch T.P.2) of 1U-2193-1 (Main PCB = PCB at the lower bottom of the unit) and test points (L ch T.P.3, R ch T.P.4) of 1U-2196-2 (Center Amp PCB = PCB reversely attached to the main radiator).
- (2) Connect power cord to AC line, and turn power switch "ON" (____). Allow 10 minutes, and turn VR201, 202 and VR301, 302 clockwise (__) and adjust the TEST POINT voltage to 2.3 ± 1.0 mV DC.
- (3) Allow 2 minutes, and adjust the VR201, 202 and VR301, 302 so that the meter reads 3.0 ± 1.0 mV DC.

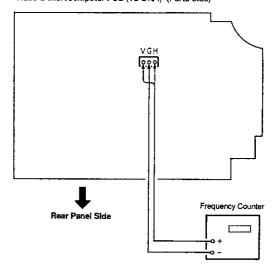


Video H SYNC- V SYNC Oscillation Frequency Adjustment

Required measurement equipment: Frequency Counter

Arrangement

Video & Microcomputer PCB (1U-2194) (Parts Side)



- Ground (-) side of frequency counter to G-terminal at center of the test point (T.P.) of Video and microcomputer PCB (1U-2194-1).
- Confirm that no insertion of video input or output is made. (With optional function)
- (1) H SYNC (Horizontal synchronous pulse) Adjustment
 - Connect probe for frequency counter to H.
 - Turn VR72 with non-magnetic screwdriver and adjust the frequincy counter so as to read 15,734 kHz ± 200 Hz.
- (2) V SYNC (Vertical synchronous pulse Adjustment)
 - Connect probe for frequency counter to V.
 - Turn VR71 with non-magnetic screwdriver and adjust the frequency counter so as to read 55 Hz ± 1 Hz.
- (3) Adjustment completion
 - Disconnect the frequency counter.

SEMICONDUCTORS

IC's

HD404019 (V: IC801)



Note) Indications before IC numbers denote P.C.B. Name.

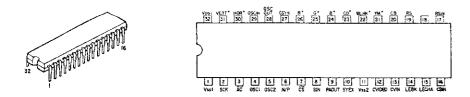
FA: Front Amp P.C.B.
V: Video P.C.B.
FL: FL P.C.B.
RA: Rear Amp P.C.B.
V: VDP Direct P.C.B.

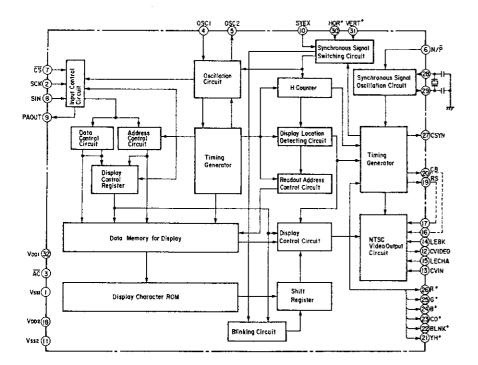
HD404019 Terminal Function

No.	Name	Circuitry	Ю	ACT	INT	Current	Symbol	Application
1	Ð11	PMOS	0	н	L	πA	SP-A	RELAY
2	D12	PMOS	0	н	L	mΑ	SP-B	RELAY
3	D13	PMOS	٥	Н	L	mA	CENTER	RELAY&PREOUT
4	D14	PMOS	٥	Н	. L .	mA	REAR	RELAY&PREOUT
5	D15	PMOS	0	Н	Ł	mA	POWER	RELAY
6	R00	PMOS	0		L	mA	V.REC C	VIDEO Selecter Multiplexer 4051 Control
7	R01	PMOS	0		L	mΑ	V.REC B	VIDEO Selecter Multiplexer 4051 Control
8	R02	PMOS	0		Ļ	mA	V.REC A	VIDEO Selecter Multiplexer 4051 Control
9	R03	PMOS	0		L	mA	V.IN C	VIDEO Selecter Multiplexer 4051 Control
10	R10	PMOS	0		Ĺ	mA	V.IN B	VIDEO Selecter Multiplexer 4051 Control
11	R11	PMOS	0		L	mA	V.IN A	VIDEO Selecter Multiplexer 4051 Control
12	R12	PMOS	0	H	L	mA	VCR-1	VCR REC Inhibit VCR-1
13	R13	PMOS	0	Τ	L	mA	VCR-2	VCR REC Inhibit VCR-2
14	R20	PMOS	0	Н	L	mA	RES	OSD (M50554) FLD Driver RESET: "L"
15	R21	PMOS	0	L	۲	mA	AVSE	AVSE (AVSE ON: "L")
16	R22	PMOS	0	Н	г	mA	CINEMA	CINEMA C (CINEMA ON: "H")
17	R23	PMOS	0	Н	L	mΑ	VDP-DIRECT	VDP-DIRECT (ON: "H")
18	RA0	PMQS	l	L	Н	mA	PROTECT	PROTECT IN (PROTECT IN: "L")
19	RA1	PMOS	1			mA	SYNCDET	SYNC DETECT (SYNC: ?????)
20	R30	NMOS	0		l.	mΑ	C/R MODE1	4052 Control CENTER/REAR MODE-A
21	R31	NMOS	0		L	mΑ	C/R MODE2	4052 Control CENTER/REAR MODE-B
u	OTM	•	1	_ L	H	. }	REM	Remote Control Input
23	INT1		1	L	I		P.OFF	Power Detect ("L" at power breakdown)

No.	Name	Circuitry	VO.	ACT	INT	Current	Symbol	Application
24	FI50	NMOS	0	L	L	mA	N. ON/OFF	NOISE ON/OFF NJM2175L NOISE ON: "L"
25	R51	NMOS	0	_	<u> </u>	mA	N. SEQ1	NOISE SEQ1 (A) NJM2175L
26	R52	NMOS	0			mA	N. SEQ2	NOISE SEQ2 (B) NJM2175L
27	R53	NMOS	0	H		mA	C. ON/OFF	CENTER ON/OFF NJM2175L CENTER ON: "H" 10
28	R60	NMOS	0	н	<u> </u>	mA	C. MODE 1	(NORMAL) CENTER MODE 1 NJM2175L 15
29	R61	NMOS	0	н	L	mA	C. MODE 2	(WIDE) CENTER MODE 2 NJM2175L 15
30	R62	NMOS	0	Н	L	mA	VOLUP	MOTOR VOLUP
31	R63	NMOS	0	Н	L	mA	VOL DOWN	MOTOR VOLDOWN
32	Vcc						Vcc	POWER SUPPLY (+5V)
33	SCK		0	Si			FILD, OSD CLOCK	M50554 FLD CK
34	S1		0	Si			OSD ST	M50554 ST
35	SO		0	Si			FLO, OSD	M50554
							DATA	FLD DATA
36	R43		0	Si		mA	FLD ST	FLD ST
37	F170	NMOS	0	Si		mA	LV1000CK	TIME LINK CK
38	R71	NMOS	0	Si		mA	LV1000 SDATA	TIME LINK DATA
39	R72	NMOS	O	Si		mA	LV1000	TIME LINK SRAS
40	R73	NMOS	0	Si		mΑ	LV1000	TIME LINK SCAS
41	R80	NMOS	0	Ĺ	H	mΑ	LV1000	DELAY MUTE ("L" at MUTE MODE)
42	R81	NMOS	0	Si		mA	VOL CK	TC9176 CK
43	FI82	NMOS	0	Si		mA	VOL DATA	TC9176 DATA
44	R83	NMOS	0	Şi		mA	VOL ST	TC9176 ST
45	R90	NMOS	1	H	L,		KR1	KEY RECEIVE 1
46	R91	NMOS	j	Н	L		KR2	KEY RECEIVE 2
47	R92	NMOS	1	Н	L		KR3	KEY RECEIVE 3
48	R93	NMOS	1	Н	Ł		KR4	KEY RECEIVE 4
49	AESE						RESET	MICROCOMPUTER RESET
50	TEST						TEST	CONNECT TO Vcc
51	OSC1						OSC1	Ceramic Filter
52	OSC2						OSC2	Ceramic Filter
53	GND						GND	GND
54	D0	NMOS		Н	L	mA	3CH/4CH	"H": 3CH 3CH/4CH NJM2175L
55	D1	NMOS	0		L	mΑ	FUNC CK	LC7821, 7822, 7823 CK
56	D2	NMOS	0	Si	L	mA	FUNC DATA	LC7821, 7822, 7823 DATA
57	D3	NMOS	0	Si	L	mA	FUNC ST	LC7821, 7822, 7823 ST
58	D4	PMO\$	0	L	H	mΑ	LED	MASTER VOL. LED
59	D5	PMOS	0		Н	mA	KS1	KEY SCAN 1
60	D6	PMOS	0		Н	mA	KS2	KEY SCAN 2
61	D7	PMOS	0		Н	mA	KS3	KEY SCAN 3
62	D8	PMOS	0		Н	mA	KS4	KEY SCAN 4
63	D9	PMOS	0		Н	mA	KS5	KEY SCAN 5
64	D10	PMOS	0	н	L	mA	HP/PRE	FRONT, MONO PRE OUT HEADPHONE

M50554-001SP (V: IC704)



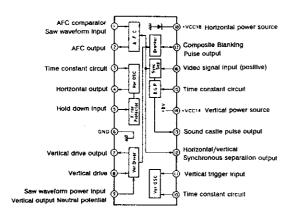


M50554-001SP Terminal Function

Pin No.	Symbol	Terminal Name	Function						
1	Vss1	Ground terminal	Digital ground terminal; connect to GND.						
2	SCK	Serial dock input	When "L" at CS terminal, takes in SIN serial data at rise time of S.CK. Hysteresis inpu Built-in Pull-up resistor.						
3	ĀC	Auto clear input	Reset IC internal circuit at "L" mode. Built-in Pull-up resistor. Hysteresis input.						
4 5	OSC1 OSC2	Oscillator circuit external terminal	External terminal for display oscillator circuit. Reference oscillation frequency is approx. 7MHz. Display position is horizontal of TV screen and character width are determined by this oscillation frequency.						
6	N/P	NTSC/PAL switch input	Synchronous signal generator switch terminal of NTSC or PAL system. Generates synchronous signal of NTSC type at "H" mode, and synchronous signal of PAL type at "L" mode. Built-in Pull-up resistor.						
7	cs	Chip select input	Chip select terminal; set to "L" mode for serial transfer. Built-in Pull-up resistor.						
8	SIN	Serial data input	Serially inputs memory data and address for display control registor and display data. Built-in Pull-up resistor.						
9	PAOUT	Parity output	Odd number parity output; detects one-bit error in one word of SIN.						
10	SYEX	Synchronous signal switch input	Switch terminal for external or internal synchronous signal. Enter external synchronous signal mode at "L". SYEX compris logic sum with EX register of address 243 in display control register and interrespectation. Built-in Pull-up resistor.						
11	Vss2	Ground terminal	Analog ground terminal; connect to GND.						
12	CVIDEO	Composite Video output	Output terminal of composite video signal. Outputs 2Vp-p composite video signal superimpose mode, outputs output characters, etc. superimposed on CVIN signal						
13	CVIN	Composite Video input	Input terminal of composite video signal. At superimpose mode, output characters, are superimposed on this composite video signal.						
14	LEBK	Blanking level	Input terminal to determine blanking level of video signal.						
15	LECHA	Character level input	input terminal to determine character output level of video signal.						
16	CBIN	Color burst signal input	Input CB output after converting to color burst signal level of video signal, via extern circuit.						
17	RSIN	Character background carrier color signal input	Input RS output after converting to carrier color signal level of video signal, via extern circuit.						
18	V ₀₀ 2	Power supply terminal	Analog power supply terminal; connect to +5V.						
19	RS	Character background carrier color signal output	Carrier color signal output for coloring character background. Outputs signal with phase angle to color burst signal CB. Amplitude 5V.						
20	СВ	Color burst signal output	Outputs color burst signal of 3.58MHz for NTSC system, 4.43MHz for PAL system. Amplitude 5V.						
21	YH	Brightness signal output	Brightness signal output; able to select polarity at character ROM determination.						
22	BLNK	Character background output	Outputs character background signal; able to select polarity at character ROM determination.						
23	co	Character output	Outputs character signal; able to select polarity at character ROM determination.						
24	В	Blue color output	Blue color output; able to select polarity at character ROM determination.						
25	G	Green color output	Green color output; able to select polarity at character ROM determination.						
26	А	Red color output	Red color output; able to select polarity at character ROM determination.						
27	CSYN	Composite synchronous signal output	Outputs composite synchronous signal of NTSC or PAL system. Negative polarity. Amplitude 5V.						
28 29	OSCOUT OSCIN	Synchronous signal generating os- cillator circuit	External terminal of synchronous signal generating oscillator circuit. For NTSC system, oscillation frequency of 14.32MHz, and for PAL system, of 17.73MHz are used.						
30	HOR	Horizontal synchronous signal's signal	Inputs horizontal synchronous signal, Hysteresis input. Able to select polarity at character ROM determination.						
31	VERT	Vertical synchronous signal's sig- nal	Inputs vertical synchronous signal. Hysteresis input. Able to select polarity at character ROM determination.						
32	V _{DD} 1	Power supply terminal	Digital power supply terminal; connect to +5V.						

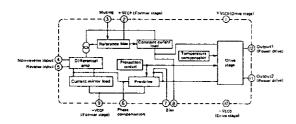
LA7820 (V: (C705)





μPC1225H (RA: IC301~304)





NJM2220S (V: IC711)





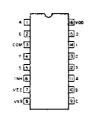
- M.M time constant setting
 SYNC input (Comp. H.V. SYNC)
 SYNC output
 SSG SYNC input
- 5. STNG DET Determine/Control

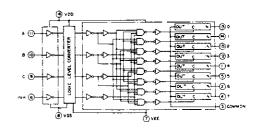
- 7. SYNC DET 8, M.M Smoother 9. V + 5 ~ 10V

TC4051BP TC4052BP

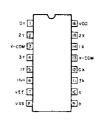


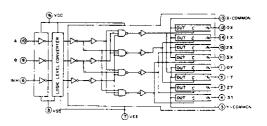
TC4051BP (V: IC701, 702, 706, 707, 709, 710)





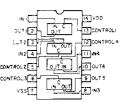
TC4052BP (RA: IC541)





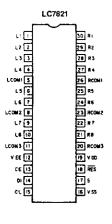
HD14056BP (V: IC703, 708)

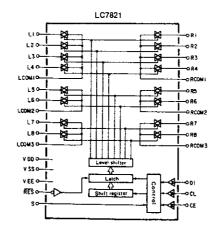


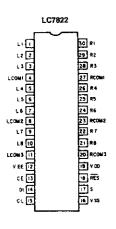


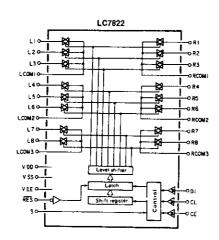
LC7821 (FA: IC102, 104) LC7822 (FA: IC103) LC7823 (RA: IC534)

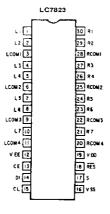












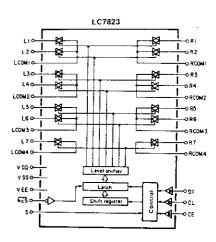
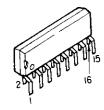
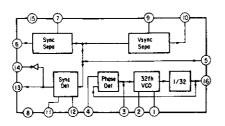


Table of LC7821, LC7822, LC7823 Terminal Function

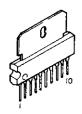
Voo. Vss. VEE Power terminal. L1 - L8, R1 - R8, LCOM1 - LCOM4, BCOM1 - BCOM4 CL, DI, CE J Serial data input te CL = Clock input DI = Data input te CE = Chip enable Selection terminal	rminal (Schm terminal. erminal.		er),			
LCOM1 - LCOM4 BCOM1 - BCOM4 CL, Di, CE I CL = Clock input to CE = Chip enable	rminal (Schm terminal. erminal.		er).			
CL, Di, CE I CL = Clock input DI = Data input to CE = Chip enable	terminal. erminal.	nicit buffe	er).			
Selection terminal t	, committee.					
	Selection terminal for using of two. Address will be shifted as per below table when switching S termin					
Name of item	S Terminal	Address				
		AD	A1	A2	A3	
S LC7821	Ł	0	1	٥	1	
	н	1	1	0	1	
LC7822	L	0	0	1	1	
251022	н	1	0	1	1	
LC7823	L	0	1	1	1	
1 20,023	н	1	, 1	1	1	

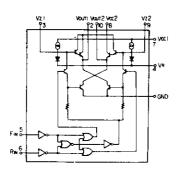
NJM2220S (V: IC711)





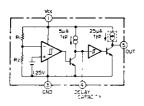
BA6109 (V: IC901)





M51594A (V: IC802)





M5218AP (FA: IC105, 501) (RA: IC531, 532, 550, 920, 542, 546, 547, 543, 181) (V: IC981)

OUTPUT - I VEE

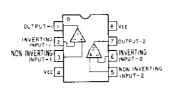
INVERTING | 2 OUTPUT - 2

INVESTING | 3 OUTPUT - 2

INPUT - 2

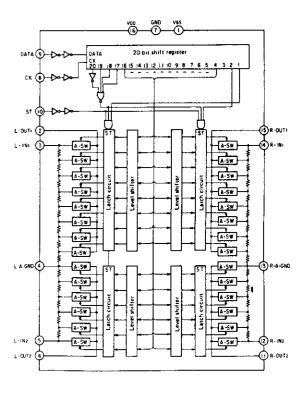


NJM4556D (FA: IC513) NJM4558D-D (FA: IC101) OP271 (RA: IC546)



TC9176P (RA: IC544)





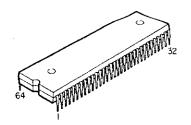
NJM7806FA (V: IC905, 915) NJM7815FA (V: IC902, 903)

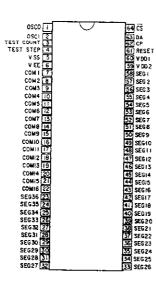


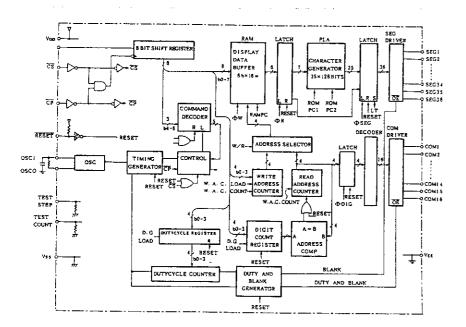
NJM7906FA (V: IC906) NJM7915FA (V: IC904)



MSC7128-03SS (FL: IC917)



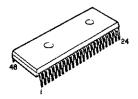


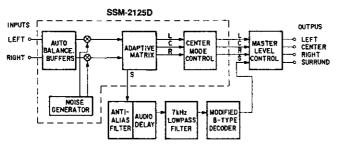


MSC7128-03SS Terminal Function

Terminal Name	Ferminal Name Terminal I/O Connection		Connection to:	Function					
V _{DD} 1	60		i	,					
V ₀₀ 2	59 5		Power supply	$\begin{array}{l} V_{\text{DD:}}V_{\text{SS}} \text{ Internal logic power supply.} \\ V_{\text{DD:}}V_{\text{EE}} \text{ Fluorescent display tube drive circuit power supply.} \end{array}$					
Vss			. one, supply						
Vee	6								
DA	63	ı	Microcomputer	Serial data input, Input from(Positive logic) LBS.					
CP	62	1	Microcomputer	Shift clock input. Data shift at rise time of CP,					
<u>cs</u>	64	1	Microcomputer	Chip select input. Serial transfer of data is prohibited when set to "Hi".					
osci	2	. 1		External terminal of CR for CR oscillation.					
osco	1 0			fosc = 250KHz at C= 100PF, R= 47KΩ.					
RESET	61	ı		Reset input (Built-in Pull-up resistor), Internal logic is reset when "LOW" is set, and output of SEG1-36, COM1-16 all become "LOW".					
COM1 ~ COM16	7 - 22	0	Fluorescent dis- play tube grid	Drive output of fluorescent display tube grid. Able to connect directly to fluorescent display tube , and no Pull-down resistor is needed. lon>—30mA.					
SEG1 - SEG35	58 ~ 24	0	Fluorescent dis- play tube anode	Drive output of anode for fluorescent display tube 5x7 dot. Able to connect directly to fluorescent display tube and no Pull-down resistor is needed. lone—2mA.					
SEG36 23 O		0	Fluorescent dis- play tube anode	Drive output of anode for fluorescent display tube casole. Able to connect display to fluorescent display tube and no Pull-down resistor is needed. 1cm>-10mA.					
TEST STEP	4	ı		Test mode setting input (Normally opened).					
TEST COUNT	3	I		Test clock input (Normally opened).					

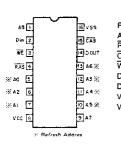
SSM-2125D (RA: IC551)

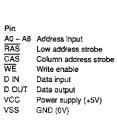


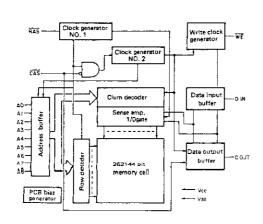


LM33256N-15 (RA: IC540)

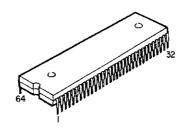


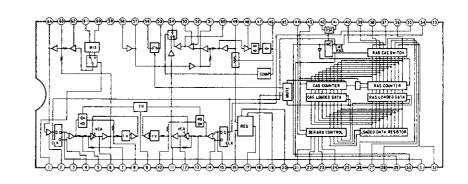




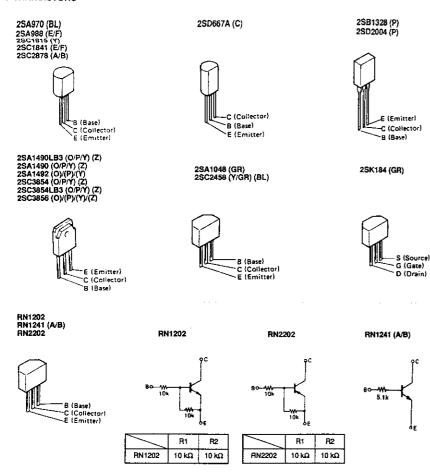


LV1000 (RA: IC539)





• TRANSISTORS

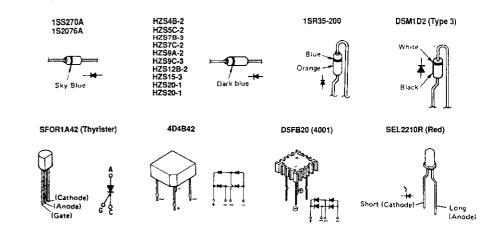


• IC PROTECTORS

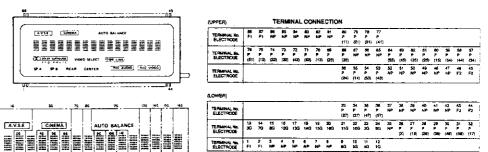
ICP-N15T (V: IC99, 910, 916) ICP-N20T (V: IC907, 908)



• DIODES (included LED)



• FL DISPLAY





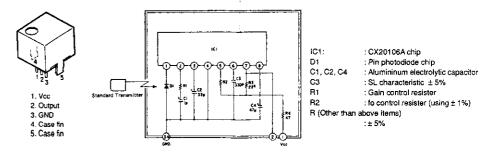
• OTHERS

SBX1610-52 (Remote Control Receiver)

VIDEO SELECT

SP-A SP-B REAR CENTER

REC AUDIO REC VIDEO

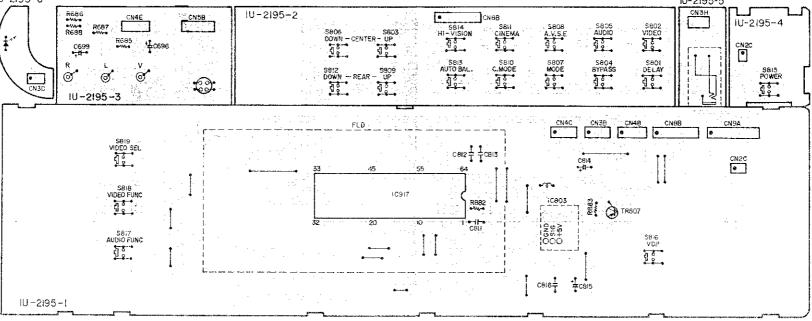


Multi-Voltage

1U-2194

8A

27 334



UNIT No

10-2196

U.S.A. & Carada | 1U-2196B

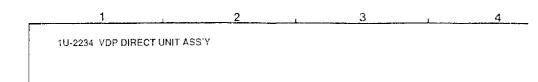
Multi-Voltage

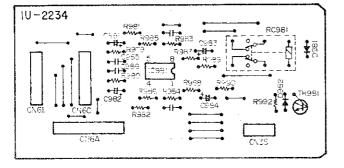
6893

F201 302 Fusc Holder *6A : 4

SP Terminal

1 205 ,472 013





NOTE ON PARTS LIST

- ◆ Part indicated with the mark * ⊙ * are not always in stock and possibly to take a long period of time for supplying, or in some case supplying of part may be refused.
- When ordering of part, clearly indicate "1" and "1" (i) to avoid mis-supplying.
- · Ordering part without stating its part number can not be supplied.
- Part indicated with the mark "★" is not disstrated in the exploded view.

WARNING:

Parts marked with this symbol ____ have critical characteristics.

Use ONLY replacement parts recommended by the manufacturer.

Resistors

Ex., BN 14K 2E 182 G 1B Type Shape Power Resist Allowable Oners and Let 1 are error

	1				
PD Celton 60 Fact	1.28	.87		P.	Pulse the start type reserves type
R5 Merally 5th SW Wending	70 2A	100	2 - 555 K - 5165		Non-Laurence physics Egypterson (10)
65 Mess Servi	36:	24V	M -25.11		Lead water to long
ha Maria novine	31	100			

Capacitors

Ex.: CE <u>64W</u> 1H <u>2R2</u> <u>M</u> <u>8P</u> Type Stape District Capacity Allowatis Others and beaustrength formance ((† Arama, america posterioria CA Aram manerical mescriples CC Estanda electrosiste CC Estanda CK Gerama The state of the s Displayers that the and the an 34 536 Z 865, 34 1009 C 100, 26 1257 C 1501, 70 1607 C 1256, 20 1000 C 1256, 25 1389 D 65 F 24 5000 C 1256, CC Carsons CP or, CM tALa Ch Metal and CP Metal and

Сараситу

Valve in a ginleding strength is indicated in AC TACT so illimination Pin depiction strength value.

FINESCOPERSON OF STREET STREET, STREET STREET, STREET,

PRINTED WIRING BOARD PARTS LIST 1U-2193B FRONT AMP UNIT ASSIY

Bof. No.	· Part No.	Part Name	Remarks
í	· · · ·		VV2-7 G1 N.S
	MDUCTORS		
171.	9. 0.35.50	F UNIMERS D	1
1111	100 1227 004	s Clighter	
111 E	0.5 (27 ± 32)		
500	2081211018		
\$1.A	033 0711 050	i jid medisaa	
(C.25)) IO M5218AP	į
65 110	50.3 0104 900	E CINMINSSE	
1909 65	4 271 0094 919	Fransaci 28A9 1970L.	
		Translatur 280 te4 t. Z.F./	
FR019,200	77 (013) 924	Transport (SABS)(Titl)	
700111212	273 0198 305	Transmorasotstally	
17000000	274 0161 903	Frankstar 9S0brüg4 (Fr	
18,500,008	0.12 6151 668	Fransalor 238 (2397)	
		Transistor CSC1841 E.F.y	
		Transistor 29,4388,E.F)	
		i Transistor 28 J 2456 BL	1
		Transister 26A1048 GA1	1
		Transister 2SO2458/5L)	l
1754-3		Transistor 25A1348(3R)	
Thier		Transistor 2902458 (3L)	<u> </u>
		Trimasior 35.02458(8L)	
78493	12/10/01/036	Transactr 884 (048:GE)	
		Translator 25C2458:81	
	271 3102 924		
F 54eG		Transistor 2002458(BL)	
TB401		Transistor 28 A288(E.F)	
16901			:
LASO I	271 0131 924	Transisior 2SA988(E:F)	
200004 2000		51	į
		Diode 1S0076A	. [
		Glode 1SS2.f0A	:
		Diode 404642/1015	
		Drode 15S270A	
C914	+ 1+6 9402 303 1	Diede 1982/CA	
	1	i	
		Zener Diade HZS15-3	.157
ZD451,452	276 0462 925	Zener Diede NZST8-3	1/V
Z0903	276 0470 908	Zoner Dioda HZS20 1	207
2000	216 0479 924	Tener Diode HZS20 3	26V
90461		Thyrister SPCP1A42	
		•	:
BESISTO	RS /not inclu	ded Carbon Film -5%, 1/4	SIM Type
11010110			
		the Schematic Diagram for	
R215-218	241 2380 963	1	RD1462E222JNBS
		2.2KΩ,1/4W (N.B)	
R223,224	241 2377 976	Carbon Film	RD14B2E131JNBS
		130Ω,1/4W (N.B)	
R227,228	241 2377 976	Carbon Film	RD1482E131JNBS
	1	130Ω.1/4W (N.B)	
9233,234	244 2043 982	Metal Oxide 0.22Ω,1W (N.B)	RS14B3AR22JS(S)
	241 2378 920		RD14B2E221JNBS
	: .	220Ω,1/4W (N.B)	
R237 - 242		Metal Oxide 0.22Ω,1W (N.8)	BS1493AB22JS/S)
	241 2380 950		RD14B2F202JNBS
H245-248			
H245-248	!	2KΩ.1/4W (N.9)	1

*1	Proceedings	D- III	
Hel. No.	Part No.	Part Name	Remarks
1 R257,258	244 2043 037	Meral Oxida 1012, 1W (N.B)	
1 R959,260	241 2315 967	Carbon Funi	Ru HESSESSOEFS
	1	63Ω,1/4W (File)bia) -	İ
*,0261,262	1241 2367 940		R014825=8,72%
		4.712,1/4W (N.B)	
N263,264	241 2379 903		R014926471JNE
		4700: 1.4W (N.B)	
		Metal Oxide 18Ω, 1W (N.3)	
R425,426	241 2373 904		RD14B29181JNS
	i	180Ω,1/4W (N.B)	
FR451	241 2379 945	!	RD1489E88(JN8
		680Ω,5.4W (N,B)	
R452	241 2360 905		RD14885.122UND
i nun		1.2KΩ,54W (N.3)	
I, R453	241 2373 904		RD14625,181JN9
		180Ω,1/4W (N B)	
R454	241 2378 962	1	RD14B2E331JNB
: D. 455	1	330Ω.1/4W (N.B)	
R455	241 2378 904		RD1422E181JN8
t man	1	180Ω.1/4W (N.B)	
P456	241 2378 962		R014B2E331JNB
C D403 430	044 0030 555	330Ω,1/4W (N.B)	en and
H467,468	241 2378 962		RD14B2E331JNS
Fi645,646	244 2051 004	330Ω,1/4W (N.B) Metal Oxida 100Ω, 1W (N.B)	Designation of the
. R902	241 2379 903		: RD1492E471JN6
1002	•	470Ω,1/4W (N.E)	D14220471040
	ł i		
Other Res	sistor		
V7/201,202	sistor 211 6064 048	Somifixed Resistor SKO	V06F3502
	sistor 211 6064 048 211 0685 008	Somifixed Resistor SKO Variabili Resistor (SKKO	Moster Volumiy
V7/201,202	sistor 211 6064 048 211 0685 008	Somifixed Resistor SKO Variabili Resistor (SKKO	
V7/201,202	sistor 211 6064 048 211 0685 008	Somifixed Resistor SKO Variabili Resistor (SKKO	Moster Volumiy
VR29*,202 VH90*	sistor 211 8064 648 211 6685 608 211 6687 907	Somifixed Resistor SKO Variabili Resistor (SKKO	Moster Volumiy
V7/201,202	sistor 211 6064 048 211 0685 206 211 0687 007	Somifixed Resistor EKO Variable Resistor 1908 to Variable Resistor	Moster Volumiy
VR201,202 VH301 CAPACIT C101	sistor 211 6064 048 211 6064 005 211 6067 007 0088 007	Somifixed Resistor SK() Variotic Resistor 100K() Variotic Resistor Electroyato 117 SOV	Moster to unity 3 Gairg to unity CE04WITHO10M
VR20*,202 VH30* CAPACIT C101 C103,104	sistor [211 6064 048] 211 0686 006 211 0687 007 211 0687 007 ORS 254 4200 045 263 2634 608	Somificad Resistor SKQ Variotic Resistor 100KQ Variotic Resistor Electrolytic 107 SOV Ceramo 200pF 507	Moster (volum) 3 Gang Nolume CE94WIF-endM CC45SLTH201J
VR201,202 VH201 CAPACIT C101 C103,104 C105,108	Sistor [211 6664 648] [211 6685 606] [211 6687 607] ORS 254 4200 645 254 4200 608 254 4254 006	Sumifixed Resistor 5/40 Varietin Reductin 1008() Varietin Resistor Electrolytic 1af 50V Ceramo 200p* 507 Electrolytic 1cg F 16V	Moster froums 3 Gang No Line CERAWITHOTOM CC458L1H261J CELAWITC1CEM
CAPACIT C101 C103,104 C105,108 C*07,168	sistor 211 8084 048 211 8885 208 211 8887 007 218 8887 007 254 4200 945 253 8834 698 253 1179 384	Samifixed Resistor 5/32 Variable Resistor 1008() Variable Resistor Electropytic 1aF 56V Ceramic 200pF 56V Electropytic 16yF 16V Corumno 470pF 56V	Moster for unity 3 Gaing No Love CE04W1F-010M CC45SL1H201J C2L4W1C100M CM45B1F44TK DL3
VR261,202 VR361 CAPACIT C101 C102,164 C105,166 C107,166 C109,110	Sistor [211 8684 048] [211 9686 206] [211 6687 007] 254 4202 045] [263 8634 606] [264 4254 006] [263 879 184 284 285]	Semifixed Resistor 5/02 Variable Resistor 1005() Variable Resistor Electropytic 11/F 50V Ceramo 200pF 507 Electropytic 10/F 13V Corumo 410/F 50V Electropytic 10/F 50V Electropytic 12/F 50V	Moster for unity 3 Gang No Livie CE04W1F-010M CC458L114261J CC458L144TK DL8 C604W0J031M
CAPACIT C103,104 C105,106 C107,106 C108,110 C108,110 C108,110 C108,110 C111,112	Sistor [211 8064 048] [211 8082 905] [211 9887 907] ORS [254 4204 945] [254 4204 945] [254 4254 906] [254 4254 939] [254 4254 939] [254 4254 939]	Somifixed Resistor SK01 Variable Resistor 100K0 Variable Resistor Electroyite 107 S6V Ceramo 200pF S6V Electroyite 10gF 16V Coramo 470gF 56V Electroyite 20gF 56V Ceramo 470gF 56V Ceramo 6 020gF 66V Ceramo 6 020gF 66V	Master (Mum) 3 Gang No Line CERNWISHER MM CC4551142611 CC4551142611 CC45514445 DLES CC45514455 DLES CC45514455 DLES CC45514455 DLES CC4554455 DLES CC455445 DLES CC455445 DLES CC455445 DLES CC455445 DLES CC455445 DLES CC455445 DLES CC45545 DLES CC45545 DLES CC4554 DLES CC5554 DLES CC5
VR201,002 VH901 CAPACIT C101,004 C103,104 C105,108 C107,106 C108,110 C101,112 C103,114	Sistor (211 6064 048	Somificado Resistor SKO Varistro Resistor 100KO Varistro Resistor 100KO Varistro Resistor 100KO Varistro Resistor 100 SOV Coramo 200pT 50V Electro y do 10 pT 10 V Coramo 470pT 50V Electro y do 200pT 60V Electro y do 200pT 60V Floato Tim Colone 50V Poseto Tim Colone 50V	Master (volum) 3 Gang Nolling GERWYRE (10M GERWYRE) 10M GERWYRE (10M GERWYRE) 10M GERWYRE (10M GERWYRE) 10M GERWYRE (10M) 10M GERWYRE (10M) 10M
VR201,202 VH901 CAPACIT C103,104 C103,104 C105,105 C107,105 C108,110 C113,114 C113,114 C113,114	Sistor [211 6084 048] [211 6085 208] [211 6085 208] [211 6087 007] 263 8034 603] [254 4260 045] [253 6179 034] [254 4270 039] [257 6179 034] [255 6179 034] [258 6172 034]	Somificial Resistor EKQ Variable Resistor 100Kts Variable Resistor Electroyite 1a7 SOV Ceramo 200pt 50V Electroyite 125 F6V Ceramo 470g 56V Electroyite 220, F6 3V Ceramo 6 320g F60V Plast 6 Fm 6 325 25550V	Master (# 5 um) 3 Gang No Line GE94991-Fortist GE0499 G1551
VR201 202 1/4901 CAPACIT C101 C103,104 C105,106 C105,106 C105,106 C105,106 C105,106 C105,106 C115,106 C115,116 C115,116 C115,116 C115,118	Sistor [211 8684 048] [211 9686 206] [211 9687 007]	Semifixed Resistor SIG1 Variable Resistor 100Kg Variable Resistor Electropytic 11/F SOV Ceramo 200P 507 Electropytic 10/F 10V Ceramo 4700F 50V Electropytic 10/F 10V Ceramo 0 10/F 8/60V Plast 6 First 10/20/F 50V Plast 6 First 10/20/F 50V Electropytic 20/F 10/F 50V Electropytic 20/F 10/F 50V	Master (# June 2 Ge949/19er 19M GC9488119201J GE 44V G 15EM GC949W1201M G44681941K DL3 GC959W1213 DL GC959W1213 GC959W1313 GC959W1313 GC959W1313 GC959W1313 GC959W1313 GC959W131
CAPACIT C101 C101 C100,104 C105,106 C100,104 C105,106 C107,106 C107,106 C115,112 C115,114 C115,116 C115,116 C115,116	Sistor 211 6064 048 211 6069 006 211 6069 006 251 6067 007 2554 4204 045 2553 1179 034 2554 4254 030 2554 1254 030 2554 125 036 2554 125 036 2554 125 036 2554 125 036 2554 125 036 2554 135 034	Somifixed Resistor 5/02 Vanishin Resistor 5/02 Vanishin Resistor 100/02 Varishin Resistor 100/02 Varishin Resistor 100/02 Validation Resistor 100/02 Validation Valid	Master (zhum) 9 Gang Volume 9 Gang Volume Cesawy Ghert Cesawy Ghart Cresawy Ghart Cres
CAPACIT C101 C103.104 C105.106 C107.104 C105.106 C107.104 C105.106 C117.104 C115.116 C117.116 C117.116 C117.116 C117.116 C117.116 C117.116 C117.116 C117.116	Sistor [211 6064 048] [211 6064 048] [211 6064 005 [211 0087 007] ORS [254 4204 045 [254 4204 045 [254 4254 006 [256 4125 030 [255 4125 046 [255 4125 0	Somifixed Resistor SK01 Variable Resistor 100K0 Variable Resistor Electrolyte 167 S6V Coramo 200pF 36V Electrolyte 167F 16V Coramo 200pF 36V Electrolyte 200,F 163V Coramo 0 060,F 66V Plasto F in 0.0246F 56V Plasto F in 0.0246F 56V Coramo 6 0.020 B-56V Coramo 6 0.022 B-56V Coramo 6 0.022 B-56V Coramo 6.022 B-56V	Master (volum) 3 Gang Nolong CERAWY FROM COASSET HARROLL CERAWY CITCH CARSOT HARROLL CARSOT HARR
VR201,202 1/4801 CAPACIT C101 C103,104 C105,105 C107,105 C107,105 C107,105 C113,114 C115,116 C114,118 C114 C114,118 C114	Sistor [211 6084 048] [211 6085 208] [211 6085 208] [211 6087 007] 263 8634 608] [254 4202 045] [263 8634 608] [254 4254 008] [255 1179 034] [255 4129 039] [255 4129 039] [255 4129 134] [255 4129 138] [255 4129 138] [251 813 134] [251 8030 1028] [253 8138 104]	Somificial Resistor EKQ Variable Resistor 100Kts Variable Resistor 100Kts Variable Resistor 100Kts Variable Resistor 100Kts Variable Resistor 100V Cerame 200pf 50V Electrolytic 120, Fill 3V Cerame 0.020n February 100 Cerame 0.024n February 100 Cerame 0.024n February 100 Cerame 0.0224n February 100 2 Ceram	Master (# Juni) 9 Geng No Line Ceasymeorism Coassin Park Dus Coassin Park Coassin
V7821/202 V4901 CAPACIT C101 C103/104 C103/104 C103/104 C103/104 C103/104 C103/104 C113/104 C	Sistor [21: 868- 048] [21: 968- 206] [21: 968- 206] [21: 968- 206] [21: 968- 206] [25: 428- 206	Semifixed Resistor SIGU Variable Resistor 100KU Resistor 100	Master (# 5 um) 2 Gang No Low 2 Gang No Low 0 Ga49VI Per rott CC 485L1 P201 J CC 48V OF 16th CX458 F H4TK DL3 CE 50VI P42 T C L CX55M F 142 T C L CX5M F 142 T C L CX5M F 142 T C L CX5M F 142 T C C L CX5M F 142 T C C C C C C C C C C C C C C C C C C
V7821/202 174801 CAPACIT C101 C100,104 C100,104 C100,104 C100,104 C100,104 C110,104 C110,104 C112,104 C112,104 C112,104 C123,104 C123,104 C123,104 C123,104 C123,104 C123,104 C123,104 C123,104 C123,104 C123,104 C123,104 C132,104	Sistor 211 6064 048 211 6069 208 211 6067 007 254 4204 045 263 2634 608 254 4254 006 255 4254 030 255 1179 044 255 215 118 014 255 215 118 014 255 2020 028 253 1173 014 255 2020 028 253 1173 014 255 2020 028 253 1173 014 255 2020 028 253 1173 014 255 2020 028 253 1173 014 255 2020 028 253 1173 014 255 2020 028 253 1173 014 255 2020 028 253 1173 010 000	Somifixed Resistor 5/02 Vanishin Resistor 5/02 Vanishin Resistor 100/02 Varishin Resistor 100/02 Varishin Resistor 100/02 Varishin Resistor 100/02 Page 100/03 Pag	Master (willing) 9 Gang Nollow CERWY FER SM COMSST HARK DIS COMSS HARK DIS C
V7821/202 174801 CAPACIT C101 C100,104 C100,104 C100,104 C100,104 C100,104 C110,104 C110,104 C112,104 C112,104 C112,104 C123,104 C123,104 C123,104 C123,104 C123,104 C123,104 C123,104 C123,104 C123,104 C123,104 C123,104 C132,104	Sistor 211 8064 048 211 6666 058 211 9687 007 254 4204 045 253 2634 668 254 4264 058 254 4264 058 255 4126 958 255 4126 958 255 4126 058 255 1121 059 255 1131 014 255 8020 028 255 1131 014 255 4020 048 255 1131 014 255 4020 048 255 1131 014 255 4020 048 255 1131 014 255 4020 048 255 1131 014 255 4020 048 255 1131 000 028 255 1131 014 256 4020 048 256	Somifixed Resistor SKD Varietin Resistor 100KD Varietin Resistor 10KD Resi	Master (w. um) 3 Gang No Low Ceast (Heer of Ceast (Heer of Ceast (Herr of Ceast (
CAPACIT C101 C101 C103 C105 C105 C105 C105 C105 C106 C106 C106 C106 C106 C11 C11 C11 C11 C11 C11 C11 C11 C11 C1	Sistor [211 6064 048] [211 6064 048] [211 6064 005] [211 0087 007] DRS [254 4204 045] [254 4204 045] [254 4254 039] [255 4125 039] [257 4125 039] [258 1121 008] [258 1121 014] [258 0000 028] [258 1121 014] [258 0000 028] [258 1121 014] [258 0000 028] [258 1121 014] [258 0000 028] [258 1121 014] [258 0000 028]	Somificate Resistor SKO Variotis Resistor SKO Variotis Resistor 100KO Variotis Resistor 100KO Variotis Resistor 100KO Variotis Resistor 100F 50V Coramo 200pF 50V Electrolytis 200, Fig. 13V Coramo 200pF 50V Plastor Fin 0.0246F 50V Plastor Fin 0.0246F 50V Coramo 0.020 Fiscov 100KF 50V Coramo 0.022 Fiscov Stepto yield 14F 60V Coramo 0.020 Fiscov C	Master (w. um) 3 Gang No Low Ceast (Heer of Ceast (Heer of Ceast (Herr of Ceast (
V7821/202 V4901 CAPACIT C101 C103/104 C103/104 C105/105 C107/104 C115/104 C115/104 C115/104 C115/104 C116/104 C123-104 C123-104 C135-107 C	Sistor [211 6656 206 [211 6656 206 [211 6657 007]	Semificad Resistor SIGU Variable Resistor 100KU Variable Resistor Valled Resistor Vall	Master (vs. um) 9 Geng Nolling Geographed in Geo
V7821/202 V4901 CAPACIT C101 C103/104 C103/104 C105/105 C107/104 C115/104 C115/104 C115/104 C115/104 C116/104 C123-104 C123-104 C135-107 C	Sistor [211 8082 048] [211 8082 048] [211 6082 005] [211 9087 007] 254 4202 045] [253 4262 045] [254 4262 045] [255 412 044] [255 412 046] [255 412 046] [255 412 046] [255 412 046] [255 113 044] [255 213 113 044] [255 213 113 044] [255 213 113 044] [255 213 113 044] [255 213 113 044] [254 4267 045] [254 4267 045] [254 4267 045] [254 4267 045] [254 4267 045]	Sumifixed Resistor 5/02 Vanish Resistor 5/02 Vanish Resistor 100/02 Varish o Resistor 5/04 Varish o Resistor 5/04 Varish o Resistor 5/04 Varish o Resistor 7/04 Varish of Resistor 7/04 Varish of 100/04 Varish of	Master (# 5 um) 2 Geng No Line GE04991-For total CC4551-F401 GE0499 G

Ref. No.	Part No.	Part Name	Remarks		Ref. No.	Part No.	Part Name	
C205.210	255 1120 000	Plastic Film 0.001µF/50V	- CQ93M1H102J		OTHER P	ARTS		
C211,212	255 1120 042	Plastic Film 0 0022µF/50V	CQ93M1H222J				P.W.Board	
0213,214	253 4538 017	Ceramic 75pF:50V	CC45SL1H750J D=3			: - 205 0585 025	2P Wire Holder	
0215,216	254 4256 059	Electrolytic 220µF/25V	CE04W1E221M		CN30	i	3p Mits Holder	i
C217,218	255 1120 000	Plastic Film 0.001µF/50V	CQ93M1H102J		CN6A,6D		6P Wire Holder	i
C219,220	253 4470 003	Ceramic 10pF/500V	CC45\$L2H1G0D				7P Wine Holder	į
0221-224	254 4260 045	Electrolytic 1μF/50V	CE04W1H010M		e.		: 3P NH Carril Base	- 1
C225.226		Ceramic 220pF/50V	CK45B1F221K D=3		CN3F	205 0233 032	3P EHConn. Sase	
C227,228		Ceramic 0.01 ₃ ,F-50V	I CK45F1H103Z D=3		CN3.	205 0277 030	3P EH Conal Base (SD)	
C229.230	:	Plastic Film 0.022, F/50V	CO93M1H223J		CA3D	205 0343 032	3P Conn. Base (KR-PH)	
C231,232		Electrolytic 220µF/63V	OE04W1U221MC	Н	CN44.4F	- 205 0233 045	4P EH Conn. Sasc	
C233-236			CE94W1J4R7M		CN4D		4P EH Conn. Base (BU)	
C237 C238		Ceramic 6.01µF/50V	CK45F1H103Z D=3	ļ ļ	CN4E		14P EH Conn Base (BK)	
C239,240	256 1042 000	Metalized 0.1µF.250V Electrolytic 10090uFr63V	GF93A25104K GE68W1J103M(DL)	Н		1	6P EH Conn. Base	
C243-246	:	Metalizec 0.1µF/50V	CF93A!H104J	Н	CN63		6P FH Conn. Base (BU)	1
C247-250	1	Plastic Film 0.0047µF:50V	CO93M1F478J	Н	CN8A		8P EH Conn. Sase	
C451.452	:	Electrolytic 1u=-50V	CE04W1F010M	Н	ONEA		6P EH Conn. Cord	
C451	1	Electrolytic 22uF 50V	CE04W1F220M	l 1	CM30 CM3H		3P FH-SGN Conn. Cord (3P Eh Conn Cord (BU)	
0452		Electrolytic 330, F/6.3V	CE04W0J831M		CMSC		1 6P EH-SON Conin. Cord	
C453		Electrolytic 33µF-50V	CB04W1H330M	Н	GN16A		10P KR-BA Conn. Cord	
C454	254 4250 026	Electrolytic 100µF/6.3V	CE04W0J101M	11	E-EJH		- 19 SIN Court, Assiv	
C455	253 1181 001	Ceramic 0.01µ5/50V	CK45F1H103Z D#3		CNCD		60 Ribbon Cable	
C457	254 4260 045	Hiectrolytic 1µF 50V	CE34W1H019M		8-8		7C Ribbon Cable	
C501.502	254 4254 006	Electrolytic 10,:F/16V	CE04W1C100M		0.0	i i	7C Ribbon Capid	
C503.504	253 1179 000	Ceramic 100pF/56V	CK45B1H101K D=3		AA		1C Shield Wire	
0505 505		Electrolytic 4 7µF/50V	CE04W1H4R7M			i	1P SIN Conn. Assiy	
0507	!	Ceramic 0.04TµF 25V	CK45=1E473K			1		
G508		Cerantic 0.025_F150V	CK45F1H223Z D=3	H		i !	1	
C509,510	:	Geramic 100gF 50V	CK45B1H161K Du3	li		!		
0513 514	i	Plastic Film, 0.001 µF/50V	CQ93M1H102J					
C515.518		Metalized 0 15µF/50V	CF93A1H154U			1		i
OS17.518 CS19.520	1	Plastic Firm 0.0018µF/50V Plastic Firm 0.012nF/50V	- CQ93M1H183U - CQ93M1H123U				!	
C518.523 C521.522		Metalized 0 MSuF 50V	OF93A1H683J					
G523.524	:	Elactrolytic 6.47µF 50V	GE64W1HR4.IM			İ		
0525.526		Electrolytic 10uF-16V	GE04W1G100M			İ	1 1	
0541.642		* Electrolytic 18uF 16V	FIGE94W1G13SM				!	- 1
Je43,644		Ceramie 190sF 50V	CK4581H101R DuB					- 1
0049 850	254 4854 806	Electrolytic 10, F 10V	CE04W+O1CCM	-			 	
Challest		Ceramic 6 15F 35V	OK45 010104E					:
0.654	¹ 254 9069 514	Flectrolytic 199 50 cdfs panel	¹ DEC4DINGTOMBR					
0625	253 1191 001	Coramic 6 Styll 50V	CK46F1-1160Z D 48	H				
29/2	254,4065,048	Electrolytic 1LF 60V	CEU4WhFlateM					
				1				
1	:			} [i		- 1
E.U. PAR	TS		O'ty	İ				:
1 52.65		N. B. PARTA	· ·	1 1				
		F AVIDADO	<i>2</i> 2	İΙ				
(" " " "		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		1			i	
)	174 89 9 308	68 8 1 May 1340 NOV						
							i L	
-							i	
				H				
1								
İ								

1U-2194B VIDEO UNIT ASS'Y

Remarks

Q'ty

Ref. No.	Part No.	Part Name	Remarks
SEMICO	NDUCTORS	······································	
	-,	1C TC4051BP	Ī
iC703		IC HD14086BP	i
IC704		IC M50554-001SP	İ
IC705	263 0619 005	i contract of the contract of	
	262 :108 004		
IC798		IC HD14066BP	
IC709,710	262 1108 004		·
IC711	263 9603 006	IC NJM2220S	
(0501			M:san
:0802	263 0535 008	/C M51954A	
IC901	1262 0326 007	IC BA6109	i
		IC NJM7815FA	
IC904		IC NJM7915FA	i
IC905		IC NJM7806FA	
10906			i
IC907.908	268 0074 904	IC NUM7906FA IC ICP-N20T	I IC Protector
10309,910	268 0073 905	IC ICP-N15T	IC Protector
10915	262 1071 005	HC NJM7806FA	
10916	268 00 13 905		IC Protector
*		!	
T/3701=709	: : 273 0198 918	Transistor 2SC1815(BL)	
TH710		Transistor 2SC2458(Y/GR)	
T8711		Transistor 2SC 815(BL)	
TB7:2		Transistor 2SC2458(Y/GR)	
TB713	271 0101 006	Transistor 2SA1048(GR)	
T8714	273 0222 057	Transistor 2SC2458(Y/GR)	
		Transistor AN1502(10K-10K)	2 5 2 2
TR804		Transistor RN2202(10K-10K)	
			1073.291 HIFTOR
TR902		Transistor 2SC2458(Y/GR)	
		Transistor 2SG2458(Y/GR)	
TR953		Transistor RN1202(10K-10K)	
		Transistor BN2204(47K-47K)	
TA905	269 0029 907	Transistor RN1204(47K 47K)	Builta Resistor
()=01 707	0.74 0.400 0.40	B: 4 .550	
		Diode 1582/6A	
		Diode :SS276A	
		Dioge DSM1D2	Type 3
		D-ode 1SR35-200A	
D918	, 414, 0462-903	D ode 1682/0A	
		Slede 18835 3064	
D932	116 0407 993 i i	Diede 1982/0A	
75.44			
		Zener Digge HZS5C-t	
ZD904		Zener Diodo HZS46-2	
ZD505	Life Over Hid	Zener Omde HESSA-2	
	.	•	
		:	
RESISTO	3S (not includ	ded Carbon Film ::5%, 1.4	W Type.
-		he Schematic Diagram fo	
E7/2 7/4		,	
H743,744	241 2387 940 :	1	AD1490E4RTUN9S
Denn zer		4.7Ω,1/4W (N.B)	
R796,797	244 2044 907	Metal Oxide 4.7Ω,1W (N.B)	
. R890.881	241 2409 909		RD14B8E2R2JNBS
		2.2Ω,1/4W (N,9) Mistal Oxide 0 22Ω,1W (N 6)	

Ref. No.	Part No.	Part Name	Remarks
<u>A</u> R907,908 À R912	241 2387 908 241 2375 978		RD14B2E010JNBS RD14B2E200JNBS
Other Re	eletor		
		.	
VA701 VR702	211 6064 022	Semifixed Resistor 100KQ	V06PS104
CAPACIT	ORS		
G791	253 9031 201	Ceramic 6.047;:F:25V	CK45 - E473K
C702		Electrolytic \00μF/10V (Bypole)	GE04C1A161MBP
C704	254 3052 034	Electrolytic 190jtF/10V (Bypole)	CE04D1A101MBP
C705-710	253 1181 001	Geramic 0.01µF/50V	, CK45P1H103Z Q=3
C711		Electrolytic 47µF/16V	OE04W10470M
C712		Ceramic 470p5/50V	, OK4581H4T1K DES
C7:3		Electrolytic 100µF/10V	CE04W1A161M
C714,715	253 1179 084	Ceramic 470pFr50V	OK4581H47(N.De)
C716	254 4252 037	, ,	CE64W1A101M
C717	!	Electrolytic 47µF/16V	CE04W10470M
C718,719 C720	:	Electrolytic 100µF/10V	CE04W1A101M
C721	253 181 001	Ceramic 0.01µF/50V Electrolytic 100uF/10V	CK45F1H103Z DHU CE04W1A101M
G722	. 254 4252 037 ; . 253 1179 084	Ceramic 470pF150V	. CK4581/471KD 3
C723	254 4260 045		CE04W1H010M
0/24		Plastic Flan 0 022aFr50V	CO93M1H223J
0725		Ceramic 820pf, 50V	OK4581H881K Dus
C725	253 1181 014		CK45F : H323Z D=3
C726	253 4537 063	Ceramic 47pF 50V	CC45SL1H4TQUID=
G727		Geramic 30pF/50V	CC4581 H3954 Da
0728.729	250 4500 064	Ceramic 18pF/50V	OC45\$1151333
	. 253 :181 051	Ceramic 0.01µF/50V	OK45F1H103Z Dua
G731,732		Ceramic 226F:50V	:
G739		Electrolytic 1GuPr1GV	CE64W1C163M
CT34	254 4860 045		GES4W1 FS15M
0.135		Metauzija 0.04795/90V	CERRATHATEU
0798	256 1120 065	Ptastic Fire 0.0027µF.81V	GQs3MtH2ftCu
ord7	255 1121 025	Plante Film 0.01µF.50V	0.09901-1030
0.738		Plastic Fam 0.0050µF 50V	CG89M1: Bridg
0739	203 1175 042	Geraraki 220pfl.56V	GN45011.021KID 43
OF46		Metalizop 0 947µF,60V	OF93A1H473J
0741,742		Electrolytic 47,:F. 16V	0.8547.1.04707
C745		FROM SIFEH COST, FISCV	0.0031419561
	156 1034 060	Metal and \$1365, F. 607	GFC3411 NBS3
Char		Motalbed CitaF 55V	CRESINAL AU
5745		Gurania foo of 500	CHAREF HISTORIA
5147	253 1151 (K.S.)	Cerachid SicheFrSisyl	044571410000
G149 G144-1167	254 4064 536	Dicebury de neur indivi	Casa consist
. A.C	968 (181 661	Ceremio 3 81LF 55V	1845F1-1011.0-3
Cytholico :		Exprelyt. 47.3 167	5.85494 045 M
	263 1179 084	Exceptivit 4704-167 Ceramic 47695,507 Exceptivits 4707-167	CROAWN DAT M CRASSINATING CLS CEDAWN CATEM

Ref. No.	Part No.	Part Name	Remarks	
C788 77.	3.52 1179 (84		GK45E : HVF1K D	23
070 + 4775 0704776	164 4950 700	Etwate pre 100 JH, 107	CENSIVIATORM	
2 114,115 2773		Curan diphry Fifty	OKACEAH 193Z DI GEORGIAN PENSIN	,
0.151		Digeth lytur (Did) (Description (Constitution)	. 34465141913.9 :	
200	0: 1.4984.035		. OERWIG479M	
0.2		Curanto 10000F F6V	OK4681-102K B	
CBUE		Buctrolytic 4.7y F 35V	DECAMP PARIM	_
CRES			CE SAVIT-CIOM	
0804			DESAW: FF23M	
0.205		Metabase 3.10./7 50V	OF SCATH NEAU	
33%8		Ouramis 0 Stuff 50V	DF.45F1-1003Z DV	.3
0807	269 2007 782	. Back up 3200µF	SE CAPI (CEE/O	
0.853		Ceramic along FeeV	Grate From 192 De	. 3
0809	264 4260 309	E actrolytic 270πF 6.3 v	QE04W(J221M	
C8+3	253 1131 001	Garamic 0.35uF.50V	OK48F1 H109Z D	3
C901	1288 1034 506	Metalized 0.1µF 50V	OF96A1m.htst/J	
0902,903	263 1181 001	Geramic 8 91gF.50V	OK45F1H103ZID=	=3
0964		Hiertrolytic 10pF 35V	CE34W1V186M	
C908		Electrolytic 100uF-35V	GE04W1V101M	
0936	1253 [131 601]	Ceramic 0.01uF:50V	CK45F141103Z D+	
G314-917		Cerany's 0.01 ₀ = 50V	OK45F1H153Z D4	-15
0918 919	1254 4858 315	Electrolytic 10;15,35V	CE04W1V100M	
C920.921		Electrolytic 18µ5.16V	GE64W1C106M	
0920-929		Ceramic 0.01uF-50V	OK45F1H109Z DV	.5
0925,937	254 4256 091		CE04W1E238M	
C928,929	:	Electrolytic 3300µF: 35V	CE34W1V332M	
C930.931 F C 932	253 1151 002	Ceramic 4700pF/500V	CK45E2H472P CK45F2GAC103N	*~
C933	253 1181 001	Ceramic 0.01µF/400V(AC) Ceramic 0.01uF/50V	CK45F1H103Z D	
C934		Electrolytic 10uE 16V	CE04W10100M	-3
0025		Ceramio 9.61µ F 55V	CK45F1H103Z D	
0936		Electrolytic 9200uF.95V	GE04W1E222M	
2037		Electrolytic 0.4Tu F150V	CE04W16947M	
C338		Electrolytic 1u7.50V	GE04W1Hc10M	
C939	254 3083 334		GE64010100M88	>
0948		Stectrolytic 1ath 50V	CE04W1H01CM	
E.U. PAR	re	Tennad by many 1, 1 spage	<u> </u>	
		nduator (6t)		. 4
E/01				
XL701		X tal 14 32MHz		
XU801 HU701,703	399 9023 301	Cerame Vibrater 0310.00MG Relay (RY-12W)		,
HU/01/702 FL901	214 012 1003			2
U-841	202 0022 008		ı	S
1 F905	206 1046 014			1
i,: 903 .i.	233 5818 004		Mini	1
τ.	203 3946 003		Polarized	1
	205 0805 300			7
	1204 8375 005	1P Pin Jack		
		aP Pin Jack (SIGND)		:
	204 8260 004			1
j.,6901, 9 02	206 1039 076	Fuse 2.5A	İ	2
_	!			
			:	

Flair No.	Part No.	Part Name		Remarks
OTHER	ARTS			Q
	' '	Provide and	:	1 (7
	4791509000	1 (Non Janitar Gaver		
	417,0398,031	Rusts on	:	j.
	409 11066 061	Tabuli q 3 tres. (3)3 (1)		. 5
	4173010303	Plan ator	:	
	juna 3198 023	27 Wita Holder	:	
anan,aa	E008 0188 028	- SF Wire Holder		8
	1205 0165 041	aP Wire Holder	:	1
7.7		32 NH Cenni Basa		
(A92		GP EH Conn. Base		
こうごう		32 EH Cunn Rate (21)		1
11.38	[405 0898 087	192 EH Conn. Base (YW)	-	,
775	1200,0200,046	42 Eki Cana, Bitso		
CNOA	203-02/7-043	48 EH Conn. Base (BD)		1
2514C		4P Conn. Basa (KR-Ph)	1	
01:58		5P EH Conn. Base	:	1 1
NSA		16P Elt Conn. Buse	-	1
C794		9P Carra, Base (KR FF)		1
GN10A		10P Conn. Base (KR-PH)		1 1
CV:1A		11P Conn. Base (KR-Ph)		1
CMIEA	205 0075 656	16P Conn. Sane (KRAP)		1 1
2500	1203 4453 023	3P En Cene, Cord (RD)		
2-0.0-D		12.5 N Cenn Card		! 2
1 E		20 Ritibon Cable		1
1-A	i	IP S'N Cenn. Ass'y		
E-E		1P S'N Corin, Assly		1
F.F		12 S.N Conni Assiy		1
1.5	203 0463 042	17 S'N Cann. Assiy		1
		! !		
	İ	•		1
	:			!
			:	
	•			
	-			
			- 1	
				i
			÷	
	:			
	i			
		i	i	į
				}
	1	:	- 1	
	:	1		į
	1			
				İ

1U-2195 FL UNIT ASS'Y 1U-2195B REAR AMP UNIT ASS'Y

Rei. No.	Part No.	Part Hame	Remark	ś	Ref. No.	Part No.	Part Name	Ramarks
SEMICON	IDUCTORS				SEMICON	DUCTORS		
X FUT	499 0130 068	ið SBX1810 E2	Ramoss, Fed	gave.	10131	983 0711 000	FIG M5218AP	
11. 11.	Laca 1418 556	100 MS071037365			0341 364		10 uF012254:	
					.0551.527	1863 0711 000	: IO M6218AP	
70397	259 0022 994	Transister	Builtin Pasiero		10534	; ; 262 : 219 006	10 LGT823	
		OTA14389(4,0K,4,7K)	:		10500	262 1443 362	(CLV1909	
			!		10540	 262 1460 365	O EM 33256N-15	
L0.551	393 8434 966	LED SEL12105	1		IG541	i	:C TC40523P	
	393 4115 000	FLD FIF16X1JA	1		10542.543	253 0711 000		
			i		IC544	262 0625 009	'C T09175P	
	:				10545	263 0758 007	•	
	L				IC5-46	253 0757 006		
RESISTO	•	ded Carbon Film ±5%, 1	• • •		IQ547	253 0711 000		1
	Refer to	the Schematic Diagram	for those part	S.)	P0550	263 0711 000		:
CAPACIT	ORS				:C920	- 285 0711 000	!	
Q696	254 4260 045	Electrolytic 1uF/50V	CE04WIH010	M				:
C699	254 4260 045		CE04W1H016		TB28:	275 0061 902	FET 2SK184(GR)/(8L)	
CRIT	!	Ocramic 100pF/50V	CK4581H:01				Transistor RN1241(A/B)	Bultin Fedister
C812	253 1180 028	Ceramic 1000pF/50V	CK4581H:02F		TR301,302		Transistor 2SA1016(GR)	1
C813	:	Caramic 0.022uF-50V	- CK45F1H222Z			273 0198 905	Transistor 2SC1815(Y)	i .
C814	254 4261 044	Electrolytic 230uF/50V	OE04W1H331			273 0225 923	Transister 25 C (8-1(5-7)	!
0815	254 4254 006	Electrolytic 10gF/16V	CE04W10100			271 0162 924		
C816	. 253 :191 001	Ceramic 3.01µF:50V	CK45F1H1032		4		Transistor 28 02453;3L:	!
C860	:	Electrolytic 100, F/10V	GE04W1A101			273 0235 923	Transister 2SC1841(E/F)	
0,	:	E.ede 6.9.10 100,177.09	0.000.000	151	7R931		Transistor 2SC1815(SL)	
					TR535		Transistor 2SD667A(C)	:
		***	<u>i</u>		TR538	269 0025 901	Transistor AN1202(10K-10K)	. Builtin Resistor
E.U. PAR	rs			Q'ty	i	1	FET 2SK184(GR)/(BL)	
\$801-819	212 4388 907	Tact Switch		19		i	Transistor RN1202;10K-10K	: Builtin Besister
L901	235 0060 989	Inductor 120µ4		1			Transister BN1202(10K-10K)	
	304 8341 304	Headophane Jack	:	1		: 273 0233 918	Transister 2SG2878(A/B)	
	204 8342 003	SF Pin Jack (C-GND)		1	79983		Transistor 2SQ1815(BL)	
	205 0605 000	S Terminal		1	-B984	271 0102 924		1
			:					
					5231	- 276 0432 903	! : Digge 1SS270A	i !
OTHER P	L						Diode 158270A	:
OTHERP	4815					276 0432 903	Diode 1SS270A	
		F W.Board		(1)	D323-326	276 0432 903	Diode 1SS270A	:
	412 3156 002			1	5327	276 0356 005	D-oda DSFB20(4001)	
	. 205 0185 038			1	0593 -543	276 0432 903	Diede ISS270A	
ONTH		3P EH Conn. Base		1	0546-550	276 3432 903	Dieda (SS270A	
0N4E	i :	4P EH Conn. Base	.	1	0981.989	: 276 0468 911	Zener Grode HZS7C-2	77
วาเธ ล		5P EH Conn. Base	1 .	1	ZD531	276 0474 916 .	Zanar Diode HZS122-2	. 12V
CN38		3P EH Cenn. Cord		•	ZD532 533		Zöner Diode HZS9C-3	. gv
DN4B		49 EH-SCN Contil Cord	İ	•	1			
0140	:	42 KR-DA Conn. Cord	1					
		9P KR-DA Conn. Cord		1				<u>: </u>
INZO .		2P DA-DA Conn. Cord	i	1	RESISTO		ded Carbon Film ±5%, 1/4	
N8B		8P DA DA Conn. Cord	1	1		Refer to t	the Schematic Diagram f	or those parts.)
NaD		3P PH-SAN Cons. Cord		1		241 2379 903	Carbon Film	RD14B2E471JNBS
į	203 0301 923	1P Contact Ask v		1			470Ω,1/4W (N.B)	
!	•		i ·	ļ	%R331-338	244 2055 912	1 1 1	RS14B3AR47JS(S
				1			0.47Ω,1W (N.B)	
			1	ļ	i R341,342	241 2380 950	Carbon Film	RD1482E202JN89
							2KΩ,1/4W (N.B)	5.5
	1				/i, R365,366	241 2379 903	Carbon Film	RD14B2E471JNBS
	!			1			470Ω,1/4W (N.B)	
			1	3	1			΄.

Ref. No.	Part No.	Part Name	Remarks
) R381-388	244 2055 912	Metal Oxide	RS14B3AR47JS(S)
		0.47Ω,1W (N.B)	
4, R391,392	241 2380 950	Carbon Film .	RD14B2E202JNBS
		2KΩ,1/4W (N.B)	100 L
≜R393,394	241 2380 934	Carbon Film.	RD14B2E162JNBS
		1.6KΩ,1/4W (N.B)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
⚠ R405,406	244 2043 937	Metal Oxide 10Ω,1W (N.B)	RS1483A100JS(S)
∱R409,410	244 2051 987	Metal Oxide 4,7Ω,1W (N.B)	RS14B3A4R7JS(S)
7.R411,412 3. R415,416	244 2043 937 244 2051 987	1 1 1	RS14B3A100JS(S)
.1. R563	244 2051 987	Metal Oxide 4.7Ω,1W (N.B). Carbon Film	RS14B3A4R7JS(S) RD14B2E220JNBS
1111000	24, 23, 3 301	220,1/4W (N.B)	TIO (4DEL ZEOUNDO
1 R610,611	244 2051 974	Metal Oxide 1KΩ,1W (N.B)	RS14B3A102JS(S)
∄ R684	241 2378 933	Carbon Film	RD1482E241JNBS
		240Ω,1/4W (N.B)	
<u>A</u> R893	242 0203 003	Carbon Composit	RC05GF2E106K
		10MΩ,1/4W	
<u>1</u> R935,936	244 2052 928	Metal Oxide 47Ω,1W (N.B)	RS14B3A470JS(S)
	!		[
	·		
Other Res			
VR331,202	211 6000 002	Semified Pesisto: 5KQ	V09PB502
	·		
CAPACIT	ORS		
0181,182	254 4260 945	Electrolytic 1µF/50V	CE94W1H019M
C183.184	254 4254 006	Electrolytic 10µF 16V	CE04W1C:00M
		0	
C135-188		Ceramic 100pF.50V	CK4581H101K D=3
0188	254 4258 015 ¹	Electrolytic 10µF 38V	CE04W:V169M
0188 0190,191	254 4258 015 254 4260 045	Electrolytic 10µF 35V Electrolytic 1µF/69V	CE04W1V169M CE04W1H010M
0188 0190,191 0183	254 4258 015 254 4260 045 253 1180 044	Electrolytic 10 ₂ F 35V Electrolytic 1 ₂ F 60V Ceram o 1500pF 50V	CE04W1V169M CE04W1R016M CR4581R152K D43
0188 0190,191 0183 0184	254 4258 015 254 4260 045 253 1190 044 254 4260 045	Electrolytic 10gF 35V Electrolytic 1uF/50V Ceramic 1500gF/50V Electrolytic 1gF,50V	CE04W1V169M CE04W1R016M CR4581R152K D43 CE04W1RC16M
0188 0180,191 0183 0184 0195	254 4258 015 254 4260 045 253 1180 044 254 4260 045 256 1034 634	Electrolytic 10gF 38V Electrolytic 1uF/60V Ceram o 1600pF/50V Electrolytic 1uF.80V Metal zed 0 047uF 50V	CE04W1V169M CE04W1H010M CK4681W152K D43 CE04W1HC10M CF99A1H473J
0188 0190,191 0183 0184 0195 0801,800	254 4258 015 254 4260 045 253 1180 044 254 4260 046 256 1034 034 254 4260 045	Electrolysic 16,4F 35V Electrolysic 14,776V Oeramic 1500;5F/56V Electrolytic 1,4F,50V Metalized 0,047,4F,50V Electrolytic 1,4F,50V	CE04W1V169M CE04W1H010M CR4581H152K Du3 C804W1HC10M CF93A1H479J C804W1H010M
0188 0180,191 0183 0184 0195 0301,802 0303,304	Z54 4250 015 254 4260 045 253 1180 044 254 4260 045 256 1034 034 254 4260 045 253 1175 042	Electrolysic 16µF 38V Electrolysic full F60V Orrain o 1800p9750V Electrolysic fy,F,80V Meralized 0.047yF 50V Electrolysic full 50V Ceramic 280pF 60V	CE04W1V169M CE04W1H010M CR4581H152K Du3 CE04W1HC10M CF93A1H473J C804W1H010M CK45B1H021K D43
0188 0180,191 0183 0184 0195 0801,800 0833,504 0205,806	Z54 4250 015 254 4260 045 253 1180 044 254 4260 045 256 1034 034 254 4260 045 253 1175 042 252 1175 000	Electrolysic 16gF 38V Electrolysic 1uF 36V Ceram o 1800gF 36V Electrolysic 1gF,80V Helat 2ed 0 047gF 50V Electrolysic 1gF,80V Ceramic 120gF 66V Ceramic 100gF 50V	CE04W1V169M C604W1H010M CK68E1M152K Du3 C604W1H010M CF93A1H473J C804W1H010M CK45E1H001M Du3 CK45E1H001K Du3 CK45E1H101K Du3
0188 0190,191 0183 0194 0196 0301,200 0392,304 0215,306 0327,508	Z54 4258 015 254 4260 045 253 1180 044 254 4260 045 256 1034 034 254 4260 045 253 1175 042 252 1175 000 254 4260 026	Electrolydo 16,4F 38V Electrolydo 10,4F 38V Electrolydo 14,769V Geramo 1500pF/56V Electrolydo 14,7,850V Electrolydo 14,7,850V Geramio 220pF 56V Geramio 120pF 56V Electrolydo 1904,7F 53V	CE94W1V169M CE94W1H016M CR4521H152K Du3 CE94W1H016M CF93A1H473J CR64W1H016M CR455 H001K B-0 CR462H4101K D.3 CR64WCh01M
0198 0198,191 0198 0194 0196 0301,800 0303,304 0218,306 0307,508 0119,810	254 4258 015 254 4260 045 253 1180 044 254 4260 045 255 1034 034 254 4260 045 252 1179 000 254 4260 026 4250 036 4555 051	Electrolyde 16gF 38V Electrolyde 1 tuf 69V Oeram o 1800pF/56V Electrolyde 1gF 89V Meralized 0 047gF 59V Electrolyde 1gF 86V Oeramic 180pF 66V Ceramic 190pF 89V Electrolyde 190pF 89V Caronic 8gF 69V	CES4WI VIGOM CES4WI HOTOM CRASETHISEK DUS CRASETHISEK DUS CRAWI HOTOM CRASETHISEK DUS CRAWI HOTOM CRASETHISEK DUS CRASETHISEK
0188 0190,191 0183 0194 0196 0301,200 0392,304 0215,306 0327,508	Z54 4258 015 254 4260 045 253 1180 044 254 4260 045 256 1034 034 254 4260 045 253 1175 042 252 1175 000 254 4260 026	Electrolysic 16,4F 35V Biocholysic 10,7 60V Ceram o 1500,2F 35V Becatrolytic 1,7,8 50V Meratrod 0 047,8 50V Electrolytic 1,9,8 50V Ceramic 220,9F 85V Ceramic 220,9F 85V Ceramic 10,9F 85V Ceramic 10,9F 85V Ceramic 8,7 50V Ceramic 10,7,8 50V Ceramic 10,7,8 50V	CE94W1V169M CE94W1-R010M CR36E114152K Dus CE94W1-R010M CR394H1-473J CE94W1-R010M CR45E1141C1K Dus CR46E1141C1K Dus CR46WLR91M CR644WCR91M CR644WCR91M CR644WCR91M CR644WCR91M CR644WCR91M CR644WCR91M CR644WCR91M CR644WCR91M
0188 0190,191 0183 0194 0199 0301,800 0303,504 0215,306 0307,508 0119,510 0309,310 0301,512	254 4258 015 254 4260 045 254 1180 044 254 4260 045 255 1033 034 254 4260 045 255 1179 042 252 1179 020 254 4260 026 254 4260 026 254 4260 026 254 4260 026 254 4260 026	Electrolytic 18,4F 35V Electrolytic 1,4F 35V Orrain o 1500,6F/50V Electrolytic 1,4F,50V Metalized 0 047,4F 50V Electrolytic 1,4F,50V Ceramic 020,4F 50V Ceramic 100,4F 50V Ceramic 500,4F 50V Ceramic 8,4F 50V Orraine 19,4F 60V Orraine 19,4F 60V Electrolytic 10,4F 50V	CESAWI VITEOM CESAWI HOTOM CRASETI MISEK DUS CESAWI HOTOM CRASETI MISEK DUS CESAWI HOTOM CRASETI HOTOM CRASETI HOTOM CRASETI HOTOM CRASETI HOTOM CRASETI HOTOM CRASETI HOTOM CRASETI HOTOM CRASETI HOTOM CRASETI HOTOM CRASETI HOTOM CRASETI HOTOM CRASETI HOTOM CRASETI HOTOM CRASETI HOTOM
0188 0190,191 0183 0194 0199 0301,800 0303,504 0215,306 0307,508 0119,510 0309,310 0301,512	254 4258 015 254 4260 045 254 4260 045 254 4260 045 254 4260 045 255 1033 034 254 4260 045 252 1176 000 254 4250 228 252 4355 031 253 4506 000 254 4271 707 853 1176 026	Electrolysic 16,4F 35V Biocholysic 10,7 60V Ceram o 1500,2F 35V Becatrolytic 1,7,8 50V Meratrod 0 047,8 50V Electrolytic 1,9,8 50V Ceramic 220,9F 85V Ceramic 220,9F 85V Ceramic 10,9F 85V Ceramic 10,9F 85V Ceramic 8,7 50V Ceramic 10,7,8 50V Ceramic 10,7,8 50V	CE94W1V169M CE94W1-R010M CR36E114152K Dus CE94W1-R010M CR394H1-473J CE94W1-R010M CR45E1141C1K Dus CR46E1141C1K Dus CR46WLR91M CR644WCR91M CR644WCR91M CR644WCR91M CR644WCR91M CR644WCR91M CR644WCR91M CR644WCR91M CR644WCR91M
0188 0190,191 0183 0194 0199 0301,808 0302,808 0302,808 0119,810 0219,810 0237,808 0119,810 0237,810	254 4258 015 254 4260 045 254 4260 045 254 4260 045 254 4260 045 255 1033 034 254 4260 045 252 1176 000 254 4250 228 252 4355 031 253 4506 000 254 4271 707 853 1176 026	Electrolydo 16,4F 38V Electrolydo 10,4F 38V Electrolydo 14,7650V Geramo 1500pF/56V Electrolydo 14,7,850V Electrolydo 14,7,850V Geramio 220pF 56V Geramio 100pF 56V Geramio 100pF,56V Geramio 100pF,56V Electrolydo 100pF,56V Electrolydo 100pF,56V Electrolydo 100pF,56V Electrolydo 100pF,56V Electrolydo 100pF,56V Geramo 150pF,56V	CED4WI VIESM CED4WI - ROTOM CRASE 1 H 152K D43 CRASE 1 H 152K D43 CRAWI - ROTOM CRASE 1 H 152K D43 CRAWI - ROTOM CRASE 1 H 152K D43 CRAWI - ROTOM COLES 1 H 152K D43 CRASE 1 H 152K D43
0188 0190,191 0183 0194 0196 0301,800 0303,304 0215,306 0317,808 0119,810 0399,310 0317,310 0317,310 0317,310 0317,310	254 4258 015 254 4260 045 254 4260 045 255 4260 045 256 4260 045 256 1078 042 252 1178 042 252 1178 042 252 1455 026 254 4250 026 254 4250 026 254 4250 026 254 4271 707 253 4778 026 253 4778 025 253 4778 025	Electrolyde 16gF 38V Electrolyde 16gF 38V Electrolyde 1gF 86V Geram o 1800pF 56V Maratized 0 047gF 56V Electrolyde 1gF 86V Oeramic 26gpF 66V Ceramic 16gpF 66V Ceramic 8gF 66V Ceramic 8gF 66V Ceramic 8gF 66V Geramic 8gF 66V Geramic 16gpF 86V Geramic 16gpF 86V Geramic 16gpF 86V Geramic 16gpF 86V Geramic 16gpF 86V Geramic 16gpF 86V Geramic 16gpF 86V Geramic 16gpF 86V	CED4WINTERM CED4WINERTAM CED5WINERTAM CED5WINERTAM CED5WINERTAM CED5WINERTAM CED5WINERTAM CED5WINERTAM CED5WINERTAM CED5WINERTAM CED5WINTERTAM
0192 0193 0193 0193 0193 0193 0194 0195 0195 0195 0195 0195 0195 0195 0195	254 4253 015 254 4260 045 253 1183 044 254 4260 045 255 1034 034 254 4260 045 255 1178 042 254 4260 026 254 4260 026 254 4250 026 254 4250 026 254 4271 707 253 4504 005 254 4271 707 253 1572 005 253 1572 005 255 1172 005 255 1172 005	Electrolysis 16,4F 35V Electrolysis 10,750V Oerams 1500pF/50V Electrolytis 1,4F,50V Metal 26d 0,47,4F,50V Electrolydis 1,4F,50V Oeramic 120pF/60V Oeramic 10,0F,6,3V Caronic 8,4F,50V Ouramic 10,0F,6,3V Ouramic 10,0F,6,5V Electrolytis 10,4F,50V Ouramic 10,0F,6,5V Geramic 150,4F,50V Oeramic 150,4F,50V Oeramic 150,4F,50V Oeramic 150,4F,50V Oeramic 150,4F,50V Oeramic 150,4F,50V Oeramic 150,4F,50V Oeramic 150,4F,50V Oeramic 150,4F,50V Oeramic 150,4F,50V Oeramic 150,4F,50V	CE04W1V169M CE04W14016M CE04W14016M CE04W14016M CE04W14016M CE04W14016M CE04W14016M CE04W14016M CE04W14016M CE04W14016M CE04W14016M CE04W14016M CE04W14016M CE04W14016M CE04W14016M CE04FE1416W DIS CE04FE1416W
C198 C198 C198 S191 C198 C198 C198 C198 C198 C198 C198 C	254 4258 015 254 4260 045 253 1180 044 254 4260 045 255 1034 034 254 4260 045 255 1179 042 255 1178 040 254 4250 256 256 4556 000 254 4257 025 253 1779 026 253 4537 039 255 1178 000 255 1178 000 255 1178 000 255 1178 000 255 1178 000 255 1178 000 255 1178 000 255 1178 000	Electrolydo 16,4F 38V Electrolydo 10,4F 38V Electrolydo 14,7850V Electrolydo 14,7850V Electrolydo 14,7850V Oeramio 280,7560V Oeramio 280,7560V Oeramio 280,7560V Oeramio 280,7560V Oeramio 8,7560V Oeramio 8,7560V Oeramio 10,7850V Geramio 8,7570V Oeramio 10,7850V Oeramio 10,7850V Oeramio 10,7850V Oeramio 10,7850V Oeramio 10,7850V Oeramio 10,7750V	CED4WINTERM CED4WINERTOM CED5WINERTOM CED5WINERTOM CED5WINERTOM CED5WINERTOM CED5WINERTOM CED5WINERTOM CED5WINERTOM CED5WINTERTO
C198 C198191 C198 C199 C199 C199 C199 C1	254 4258 015 254 4260 045 253 1180 044 254 4260 045 255 1034 034 254 4260 045 255 1175 042 255 1175 042 251 1175 020 251 4250 025 251 4250 025 251 4250 025 251 4250 025 251 4250 025 251 4250 025 251 172 025 252 1172 025 253 1172 025 253 1172 025 253 1172 025 253 1172 025 253 1172 025 253 1172 025 253 1172 025 253 1172 025 253 1172 025 253 1172 025 253 1172 025 253 1172 025 253 1172 025 253 1172 025 253 1172 025 253 1172 025 253 1172 025	Electrolysis 18,4F 38V Electrolysis 19,750V Ceramis 1800p8750V Electrolysis 19,780V Meralized 0,047,4F 50V Electrolysis 19,780V Ceramis 180p8 50V Ceramis 180p8 50V Ceramis 180p8 50V Ceramis 8,7 50V Ceramis 19,780V Ceramis 180p8 50V Ceramis 180p8 50V Ceramis 47p8 50V Ceramis 180p8 5	CED4WINTERM CED4WINERTOM CED4WINERTOM CRASETHRESEX DUB CED4WINERTOM CRASETHRESEX DUB CRASETHRESEX DUB CRASETHRESEX DUB CRASETHRESEX DUB CRASETHRESEX DUB CRASETHRESEX DUB CRASETHRESEX DUB CRASETHRESEX DUB CRASETHRESEX DUB CRASETHRESEX DUB CRASETHRESEX DUB CRASETHRESEX DUB CRASETHRESEX DUB CRASETHRESEX DUB CRASETHRESEX DUB CRASETHRESEX DUB CRASETHRESEX DUB CRASETHRESEX DUB CRASETHRESEX CRASETHR
0182 0190,191 0194 0194 0301,800 0312,504 0317,800 0317,801 0317,801 0317,801 0317,801 0317,801 0317,801 0317,801 0317,801 0317,801 0317,801 0317,801 0317,801 0317,801 0317,801 0317,801 0317,801 0317,801 0317,801 0317,801	254 4258 015 254 4260 045 254 4260 045 254 4260 045 255 4260 045 255 1078 042 254 4260 045 255 1178 042 252 1478 005 256 4578 026 257 4578 026 258 4577 027 258 4577 026 258 4577 026 258 4577 026 258 4577 026 258 4577 026 258 4577 026 258 4577 026 258 4577 026 258 1721 026 258 1721 026 258 1721 026 258 1721 026 258 1721 026 258 1721 026 258 1721 026 258 1721 026 258 1721 026 258 1721 026	Electrolysis 16gF 38V Electrolysis 10gF 38V Electrolytis 1gF 80V Meral 1800pF 50V Electrolytis 1gF 80V Meral 26d 0 47gF 50V Electrolytis 1gF 80V Ceramic 180pF 80V Ceramic 180pF 80V Ceramic 80F 80V Ceramic 190pF 80V Electrolytis 10dB 80V Electrolytis 10dB 80V Electrolytis 10dB 80V Electrolytis 10dB 80V Electrolytis 10dB 80V Electrolytis 10dB 80V Electrolytis 10dB 80V Electrolytis 10dB 80V Electrolytis 10dB 80V Electrolytis 10dB 80V Electrolytis 10dB 80V Upramic 0 0000LF 80V Upramic 0 0000LF 80V Upramic 0 0000LF 80V Upramic 0 0000LF 80V	CED4WI VIGOM CED4WI HOTOM CED4WI HOTOM CED5W
0192 0193 0193 0193 0194 0195 01	254 4258 015 254 4260 045 253 1180 044 254 4260 045 255 1034 034 254 4260 045 254 4260 045 254 4260 026 265 4560 005 266 4560 005 267 4560 005 268 4527 032 268 1171 026 268 1121 026 26	Electrolydo 16,4F 38V Electrolydo 10,4F 38V Electrolydo 14,7 80V Geramo 1500pF/56V Electrolydo 14,7 80V Meralized 0,047,4F 50V Electrolydo 14,7 80V Geramio 260pF 56V Geramio 160pF 56V Geramio 100pF 56V Geramio 100pF 56V Geramio 100pF 56V Geramio 100pF 56V Geramio 100pF 56V Geramio 100pF 56V Geramio 100pF 56V Geramio 100pF 56V Geramio 100pF 56V Geramio 100pF 56V Electrolydo 100pF 56V Flatter for 100pF 56V Flatter for 100pF 56V Flatter for 100pF 56V Geramio 100pF 56V Electrolydo 10	CED4WI VIESM CED4WI VIESM CED4WI - BOTOM CRASE 1 HIS SEX DUB CED4WI - BOTOM CED5W
C198 C1981 G198 G1984 C199 G198 G198 G198 G198 G198 G198 G198 G	254 4258 015 254 4260 045 253 1180 044 254 4260 045 255 1034 034 254 4260 045 255 1175 042 255 1175 042 255 1175 042 255 1175 042 255 1275 042 255 1	Electrolydo 10,4F 38V Electrolydo 10,4F 38V Electrolydo 10,780V Geram o 1500p8750V Electrolydo 1,4F 50V Meral zeldi 0,47,4F 50V Meral zeldi 0,47,4F 50V Geramio 250p8 60V Geramio 250p8 60V Geramio 8,4F 6,5V Geramio 8,4F 6,5V Geramio 8,4F 6,5V Geramio 10,4F 60V Geramio 10,4F 60V Geramio 10,0F 50V Geramio 10,0F 50V Geramio 10,0F 50V Geramio 10,0F 50V Electrolydo 1,0F 16V Flattio Fibric 10,4F 60V Electrolydo 10,4F 60V	CED4WINTERM CED4WINERTOM CED6WI
C198 C198191 C198 C198191 C198 C1984 C198 C198 C198 C198 C198 C198 C198 C198	254 4258 015 254 4260 045 255 1180 044 255 4260 045 255 1175 042 255 1175 042 255 1175 042 255 1175 025 256 4260 025 1175 025 256 4260 025 1175 025 256 4260 025 1175 025 256 4260 025 1175 025 256 4260 025 1175 025 256 257 257 257 257 257 257 257 257 257 257	Electrolysis 10gF 38V Electrolysis 10gF 38V Electrolysis 10gF 36V Geram o 1500pF 56V Meralized 0 047gF 56V Meralized 0 047gF 56V Ceramic 260pF 56V Ceramic 260pF 56V Ceramic 360pF 56V Ceramic 360pF 56V Ceramic 36pF 56V Ceramic 56pF 56V Ceramic 56pF 56V Ceramic 56pF 56V Ceramic 10gpF 56V Ceramic 10gpF 56V Ceramic 10gpF 56V Ceramic 10gpF 56V Ceramic 10gpF 56V Ceramic 10gpF 56V Ceramic 10gpF 56V Ceramic 10gpF 56V Ceramic 56pF 56P Ceramic 56pF 56P Ceramic 56pF 56P Ceramic 56pF 56pF 56P Ceramic 56pF	CEDAWI VITEM CEDAWI HOTOM CENSWI HOTOM CHASETHISEK DUS CEDAWI HOTOM CHASETHISEK DUS CEDAWI HOTOM CHASETHISEK DUS CHASETHISEK DUS CHASETHISEK DUS CHASETHISEK DUS CONSESTRICT CONSESTRICT CO
0188 0190,191 0193 0194 0301,800 0301,800 0301,800 0301,800 0301,800 0311,8	254 4250 045 254 4260 045 253 1180 044 254 4260 045 255 1034 034 254 4260 045 255 1179 042 254 4260 025 255 1279 025 257 4575 025 257 127 025 257 127 025 257 127 025 257 127 025 258 127	Electrolysis 16,4F 38V Electrolysis 10,760V Cerams 1500pF/S6V Electrolytic 1,7,860V Menditled 0,47,4F 50V Electrolydic 1,47,860V Ceramic 260pF 86V Ceramic 260pF 86V Ceramic 360pF 86V Ceramic 360pF 86V Ceramic 9,7 65V Electrolysis 10,04F 86V Ceramic 9,7 65V Ceramic 160pF 86V Ceramic 160pF 86V Ceramic 160pF 86V Electrolysis 10,04F 86V Ceramic 160pF 86V Electrolysis 10,04F 86V Electrolysis 10,04F 86V Ceramic 20,04F 86V Electrolysis 10,04F 86V Ceramic 20,04F 86V Ceramic 20,04F 86V Ceramic 20,04F 86V Ceramic 20,04F 86V Ceramic 20,04F 86V Electrolysis 10,04F 86V Ceramic 20,04F 86V Electrolysis 10,04F 86V	CEDAWI VITEM CEDAWI HOTOM CRASETHISEK DUS CEDAWI HOTOM CRASETHISEK DUS CEDAWI HOTOM CRASETHISEK DUS CRASETHISE
0188 0190,191 0193 0194 0195 0301,800 0301,800 0301,800 0301,810 0319,810 0319,810 0319,810 0319,810 0319,810 0319,810 0319,810 0319,810 0319,820 0311,820 0301,822 0301,822 0301,823 0	254 4258 015 254 4260 045 253 1180 044 255 4260 045 255 1078 045 255 1078 045 255 1178 042 255 1178 042 255 1178 042 255 1178 042 255 1178 042 255 1178 042 255 1178 042 255 1178 042 255 1178 042 255 1175 045 1176 045 255 1175	Electrolysis 18,4F 38V Electrolysis 19,7F 38V Electrolysis 19,7F 89V Gerams 180067/50V Electrolysis 19,7F 89V Metalized 0,047,4F 89V Electrolysis 19,7F 89V Ceramic 120,7F 89V Electrolysis 19,7F 89V Electrolysis 19,7F 89V Electrolysis 19,7F 89V Electrolysis 100,4F 8,9V Electrolysis 100,4F 8,9V Geramic 150,7F 89V Geramic 150,7F 89V Electrolysis 100,4F 89V Electrolys	CESAWI VIESM CESAWI - ROTOM CESAWI - ROTOM CRASE I HISTORM CRA
0188 0190,191 0193 0194 0196 0301,808 0213,306 0301,508 0119,810 0311,508 0119,810 0311,508 0211,510 0311,510 0	254 4258 015 254 4260 045 255 1180 044 255 4260 045 255 1180 044 255 4260 045 255 1175 042 255 1175 042 255 1175 042 255 1175 045 255 255 1175 045 255 255 1175 045 255 255 1175 045 255 255 1175 045 255 255 1175 045 255 255 255 255 255 255 255 255 255 2	Electrolydo 10,4F 38V Electrolydo 10,4F 38V Electrolydo 10,4F 80V Geram o 1500p8750V Electrolydo 1,4F 50V Marairzed 0 047,4F 50V Electrolydo 10,4F 50V Oeramio 250p8 60V Ceramio 250p8 60V Ceramio 8,4F 50V Ceramio 8,4F 50V Ceramio 8,4F 50V Ceramio 10,4F 50V Ceramio 10,4F 50V Ceramio 10,4F 50V Ceramio 10,0F 50V Ceramio 10,0F 50V Electrolydo 10,04F 50V Ceramio 10,0F 50V Electrolydo 10,4F 50V Electrolydo 10,4F 50V Ceramio 10,0F 50V Electrolydo 10,4F 50V Electroly	CESAWI VIESM CESAWI - ROTOM CESAWI - ROTOM CHASE I HAS ELL DAS CESAWI - ROTOM CHASE I HAS ELL DAS CESAWI - ROTOM CHASE I HAS ELL DAS CHESAWI - ROTOM CHASE I HAS ELL DAS CHESAWI - ROTOM CHASE I HAS ELL DAS CHESAWI - ROTOM CHASE I HAS ELL DAS CHESAWI - ROTOM CHASE I HAS ELL DAS CHASE I HAS ELL DAS CHASE I HAS ELL DAS CHASE I HAS ELL DAS CHASE I HAS ELL DAS CHASE I HAS ELL DAS CHASE I HAS ELL DAS CHASE I HAS ELL DAS CHASE I HAS ELL DAS CHASE I HAS ELL DAS CHASE I HAS ELL DAS CHASE I HAS ELL DAS CHASE I HAS ELL DAS CHASE I HAS ELL DAS CHASE I HAS ELL DAS CHASE I HAS ELL DAS CHASE ELL DAS CHASE I HAS ELL DAS CHASE E
0188 0194 0198 0194 0198 0194 0198 0297 02	254 4258 015 254 4280 045 255 1180 044 255 1280 045 255 1175 042 255 1175 042 255 1175 042 255 1175 042 255 1175 042 256 1175 045 056 1175 045 056 1175 045 056 1175 045 056 1175 056 1	Electrolysis 10gF 38V Electrolysis 10gF 38V Electrolysis 10gF 36V Geram o 1500pF 56V Meralized 0 047gF 56V Meralized 0 047gF 56V Ceramic 260pF 56V Ceramic 260pF 56V Ceramic 360pF 56V Ceramic 360pF 56V Ceramic 36pF 56V Ceramic 36pF 56V Ceramic 36pF 56V Ceramic 36pF 56V Ceramic 36pF 56V Ceramic 10gpF 56V Ceramic 10gpF 56V Ceramic 10gpF 56V Ceramic 10gpF 56V Ceramic 10gpF 56V Ceramic 10gpF 56V Ceramic 10gpF 56V Ceramic 36pF 56V	CESAWI VIESM CESAWI - ROTOM CESAWI - ROTOM CRASE I HISTORM CRA

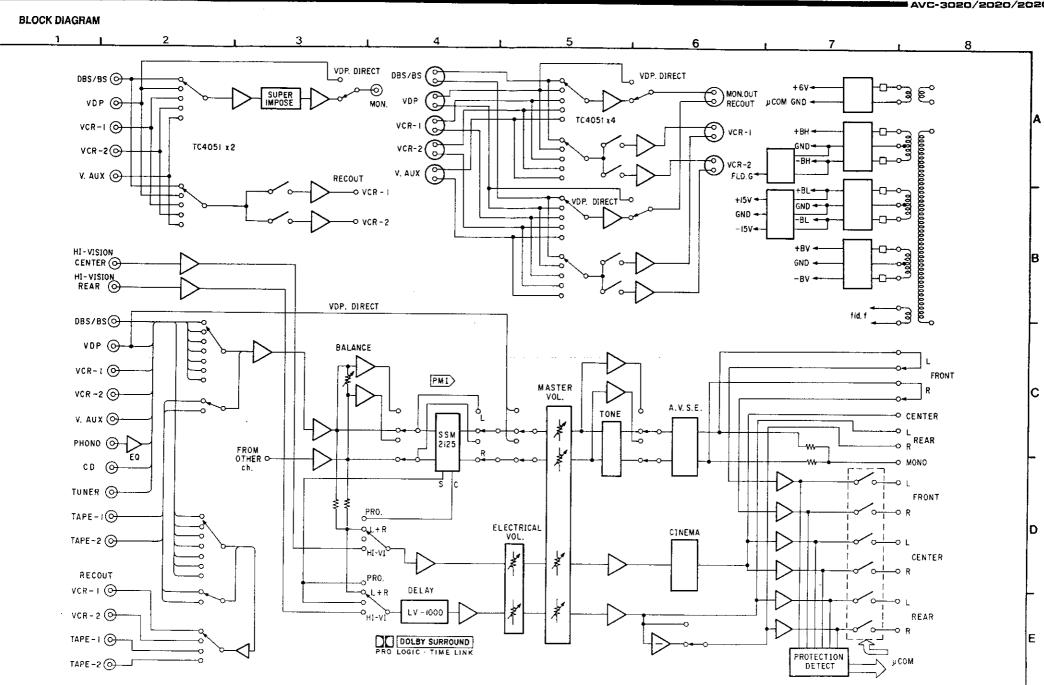
Rel. No.	Part No.	Part Name	Remarks
C347,348	253 1179 000	Ceramic 100pF/50V	CK45B1H101K D=3
0347,348	253 4537 063	Ceramic 47pF/50V	CC45SE1H470J D=3
0351,352	254 4254 006	Electrolytic 10µF/16V	CE64W1C100M
C353,354	255 1120 068	Plastic Film 0.0033µF/50V	CQ93M:H332J
C359,360	253 1181 001	Ceramic 6.01µF/50V	CK45F1H103Z Du3
C361-364	254 4260 087		CE04W1H100M
C365,366	254 6162 002	Stectrolytic 10000μF/ V	CE68W==103M(DL)
C365,366		Electrolytic 10000µF/ V	CE68W==103M(DL)
C369.370	253 1151 002	Ceramic 4700pF,500V	CK45E2H472P
C373.374	255 1121 067		CO93M1H22SJ
C375 376	256 1034 075	Metalized 0.1µF/50V	CF93A1~: 04J
C377.378	255 1120 084		CQ93311H472J
C379,380	255 1121 067		CQ93M1H223J
C381,382	1 1	Metalized 0.1µF/50V	GF93A1H104J
C383,384	255 1120 084		CQ93M1H472J
C531,532	254 4250 045		CE04W:H010M
C533,534		Electrolytic 10p.F/16V	CE04W1C109M
C537.539	254 4254 006	Electrolytic 10 ₄ F:16V	CE04W1C100M
C539,540	254 4258 044		CE04W1V470EL
C541	. 253 1179 000	Ceramic 193pF:50V	CK4581H101K D=3
C542	254 4261 015		CEC4W1H479M
C543.544	254 4260 045		GE04W1H010M
C545,548	254 4254 006		GE04V/1G106M
C547,548	254 4260 045		CE04W1F010M
C549		Electrolytic 100μF/25V	CE04W1E101M
C550,551	253 1181 014		CK45F1H223Z D=3
C552	253 1181 001		OK45F1H103Z =D=3
C553	253 1181 014	Goramio 0.022 _{ji} F/60V	OK45F1H223Z D- 3
Q563	253 1180 002		CK4581H681K D=3
C564	254 4256 004		CE04V/15100M
C555	254 3053 004	Electrolytic 10;:F/16V	CE642100MSP
0.00		(Bypo 9)	
CS66		Plastic Film 0.0068/iF-50V	CQ95M1H832J
C567 C568		Flactic Filtr 0.0055µF/50V	CO93M1H562U
C570	: i	Ceramio 560pF/50V	CK4551H501K D=3
G570		Stephorytic 1µF 50V Electrolytic 10µF 16V	- 0E04W15-010W
G3. I		Electrosyte (ULF 16V	GE04010100MBP
0572		Metalizes 0.023uFtseV	OP834115332
C573	: :255 1100 094 ;	Plastic Samio doubleF 50V	OQ93411472J
CaT4	i	Plastic Film 0.00999F.50V	COSEM1H292J
C5/15	i	Metalized C 088url.50V	050841H685W
J516		Electrolytic C 201.F.50V	CES4W 18 SERM
0577.578		Ceramio 276F/50V	CGASSLIF CYCLI DUG
C.570		Metalized 0.16µF 50V	CESSA1/-18-IJ
C-580		Curamic 150pF 50V	CR4591Hd51KIDL8
0981		Filestic Film 0.082;:F:50V	COBBMINISARU
oser.		Ceramic BRopF EQV	CK45E1+C81R DLC
0583,554		Becardive 14 NaF USV	+ CHS/W/1V40016
0514		Republication Face	109047104004
0526		Electrolytic for Fig. 9	CHC4WhetheM
DE-erc		Symmeters 500	TOWARD HOUSE
100 C		Floria Fiva alazalis Bay	C0034K1+0000
	ていな トーバス ちのべ		
u5-3		Caramo 16voF 51V	CK4581-0.85- 0-8
	254 4760 059 1	s, eramic davoe adv Bleddog sid 20049 dav Michael aid afsek	CESSMIESESE CESSMIESESE CESSMIESESE

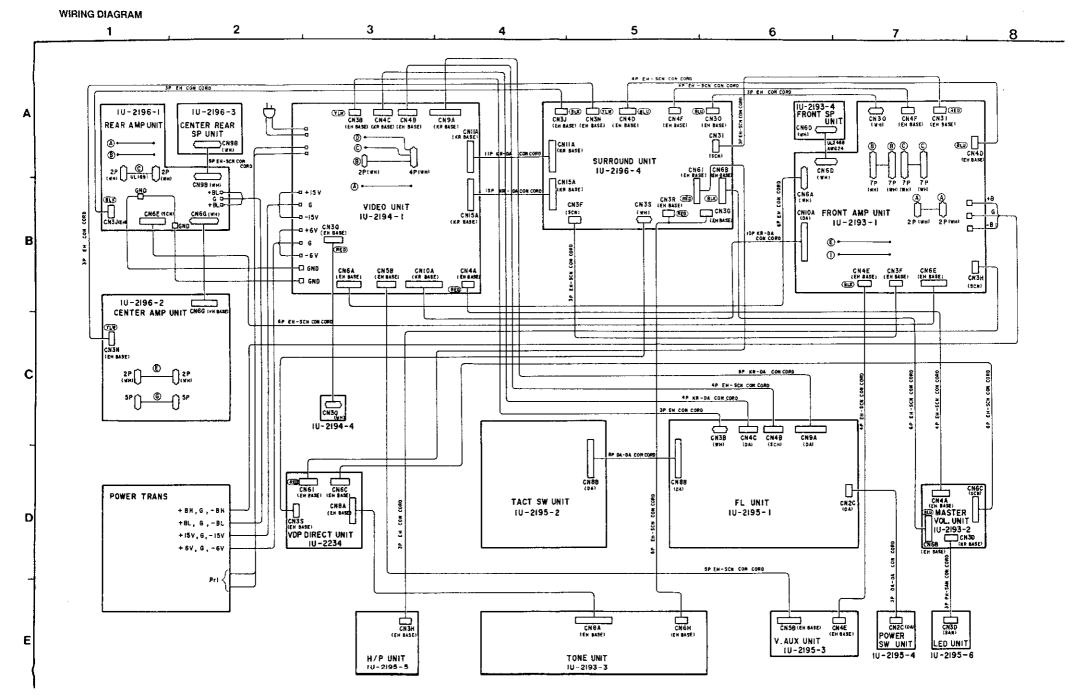
C612,613	C594	
C594 253 9036 006 Ceramic 0.1µF/25V CK45±1E104Z C695.596 254 4254 048 Electrolytic 1µF/50V CC604W1C100M C597.598 254 4254 048 Electrolytic 1µF/50V CC604W1C100M C599.600 254 4254 005 Electrolytic 1µF/50V CC604W1C100M C601-604 254 4254 005 Electrolytic 1µF/50V CC64W1C100M C609 254 4254 005 Electrolytic 1µF/50V CC64W1C100M C609 254 4254 005 Electrolytic 1µF/50V CR4WF1010M C611 253 1181 014 Ceramic 0.02µF/50V CN48F1H222Z Dr. C659-664 254 4260 045 Electrolytic 1µF/50V CK48F1H222Z Dr. C659-664 254 4260 045 Electrolytic 1µF/50V CC64W1C100M C687,698 254 4254 006 Electrolytic 1µF/50V CC64W1C100M C687,698 254 4254 005 Electrolytic 10µF/50V CC64W1C100M C689-695 254 4254 005 Electrolytic 10µF/50V CC64W1C100M C689-685 254 4254 006 Electrolytic 10µF/50V CC64W1C100M C689-685 254 4254 006 <td>C594 253 9036 000 Ceramic 0 1µP/25X C595,596 254 4254 048 Electrolytic 10pF/15 C597,596 254 4254 048 Electrolytic 10pF/15 C599,600 254 4254 005 Electrolytic 10pF/15 C600-604 254 4254 005 Electrolytic 10pF/15 C600-605 254 4254 005 Electrolytic 10pF/15 C600-610 254 4260 005 Electrolytic 10pF/15 C611 253 1181 014 Ceramic 0.02µF/5 C659-684 254 4260 045 Electrolytic 1µF/50 C665,665 254 4250 045 Electrolytic 1µF/50 C667,668 254 4250 045 Electrolytic 1µF/50 C667,668 254 4254 035 Electrolytic 1µF/50 C6679 254 4254 035 Electrolytic 1µF/50 C680-685 254 4254 035 Electrolytic 1µF/50 C680 254 4250 045 Electrolytic 1µF/50 C680 254 4250 045 Electrolytic 1µF/50 C680 254 4250 045 Electrolytic 1µF/50 C680 254 4250 045 Electrolytic 1µF/50 C680 254 4250 0</td> <td>5V CE04W15221M</td>	C594 253 9036 000 Ceramic 0 1µP/25X C595,596 254 4254 048 Electrolytic 10pF/15 C597,596 254 4254 048 Electrolytic 10pF/15 C599,600 254 4254 005 Electrolytic 10pF/15 C600-604 254 4254 005 Electrolytic 10pF/15 C600-605 254 4254 005 Electrolytic 10pF/15 C600-610 254 4260 005 Electrolytic 10pF/15 C611 253 1181 014 Ceramic 0.02µF/5 C659-684 254 4260 045 Electrolytic 1µF/50 C665,665 254 4250 045 Electrolytic 1µF/50 C667,668 254 4250 045 Electrolytic 1µF/50 C667,668 254 4254 035 Electrolytic 1µF/50 C6679 254 4254 035 Electrolytic 1µF/50 C680-685 254 4254 035 Electrolytic 1µF/50 C680 254 4250 045 Electrolytic 1µF/50 C680 254 4250 045 Electrolytic 1µF/50 C680 254 4250 045 Electrolytic 1µF/50 C680 254 4250 045 Electrolytic 1µF/50 C680 254 4250 0	5V CE04W15221M
C695,596 254 4254 048 Electrolytic 1,0,5718V C690W1C101M C697,598 254 4250 045 Electrolytic 1,0,5769V C694W1C101M C699,600 254 4254 006 Electrolytic 1,0,5769V C694W1C100M C690,600 254 4254 006 Electrolytic 1,0,5716V C694W1C100M C600,606 254 4254 006 Electrolytic 1,0,5769V C694W1C100M C609,610 254 4250 045 Electrolytic 1,0,5769V C694W1C100M C611 253 1181 011 C672,613 C63 1181 001 C674M1C10M C659,664 254 4260 045 Electrolytic 1,0,590V CK45F1H223Z Decembric 10,0,5760V CK45F1H223Z Decembric 10,0,5760V C667,668 254 4260 045 Electrolytic 10,0,5760V CK45B1H101M C667,6768 C67,7678 254 4258 025 Electrolytic 10,0,5760V CK45B1H101K Decembric 10,0,5760V CK45B1H101K Decembric 10,0,5760V CK45B1H101K Decembric 10,0,5760V CC64W1C100M C687 254 4258 035 Electrolytic 10,0,5760V CC64W1C100M CC67,6769 254 4258 035 Electrolytic 10,5760V CC64W1C100M CC64W1C100M CC64W1C100M CC64W1C100M	C695.596 254 4254 048 Electrolytic 100, F/ C697.598 255 4269 045 Electrolytic 1µF/s0/ C699.600 255 4254 005 Electrolytic 1µF/s0/ C605.606 254 4254 005 Electrolytic 1µF/s0/ C605.606 254 4254 005 Electrolytic 1µF/s0/ C605.606 254 4254 005 Electrolytic 1µF/s0/ C605.606 254 4254 005 Electrolytic 1µF/s0/ C611 253 1181 014 Ceramic 0.022µF/s C659.664 254 4260 045 Electrolytic 1µF/s0/ C659.665 254 4260 045 Electrolytic 1µF/s0/ C659.665 254 4260 045 Electrolytic 1µF/s0/ C659.666 254 4260 045 Electrolytic 1µF/s0/ C667.668 254 4260 045 Electrolytic 1µF/s0/ C667.668 254 4260 045 Electrolytic 1µF/s0/ C677.678 254 4254 005 Electrolytic 1µF/s0/ C689.665 254 4260 045 Electrolytic 1µF/s0/ C689.666 254 4260 045 Electrolytic 1µF/s0/ C689.666 254 4250 065 Electrolytic 1µF/s0/ C689.666 254 4250 065 Electrolytic 1µF/s0/ C689.666 254 4250 065 Electrolytic 1µF/s0/ C689.666 254 4250 065 Electrolytic 1µF/s0/ C689.666 254 4250 065 Electrolytic 1µF/s0/ C689.666 254 4250 065 Electrolytic 1µF/s0/ C689.666 254 4250 065 Electrolytic 10µF/s0/ C689.666 254 4250 065 Electrolytic 10µF/s0/ C689.666 254 4250 065 Electrolytic 10µF/s0/ C689.666 254 4250 065 Electrolytic 10µF/s0/ C689.666 254 4250 065 Electrolytic 10µF/s0/ C689.666 254 4250 065 Electrolytic 10µF/s0/ C689.666 254 4250 065 Electrolytic 10µF/s0/ C689.666 254 4250 065 Electrolytic 10µF/s0/ C689.666 254 4250 065 Electrolytic 10µF/s0/ C881 254 4250 065 Electrolytic 10µF/s0/ C882.626 256 1034 076 Metalized 0.1µF/s0/ C882.626 256 1034 076 Electrolytic 10µF/s0/ C883.636 256 1034 076 Electrolytic 10µF/s0/ C889.850 256 1034 076 Electrolytic 10µF/s0/ C889.850 256 1034 076 Electrolytic 10µF/s0/ C889.850 256 1034 076 Electrolytic 10µF/s0/ C889.850 256 1034 076 Electrolytic 10µF/s0/ C889.850 256 1034 076 Electrolytic 10µF/s0/ C889.850 256 1034 076 Electrolytic 10µF/s0/ C889.850 256 1034 076 Electrolytic 10µF/s0/ C889.850 256 1034 076 Electrolytic 10µF/s0/ C889.850 256 1034 076 Electrolytic 10µF/s0/ C889.850 256 1034 076 Electrolytic 10µF/s0/ C889.850 256 1034 076 Electrolytic 10µF/s0/ C889.850 256	V CF93A1H104J
C597,598 254 4260 045 Electrolytic 1μF/50V C604W1H010M C599,600 254 4254 005 Electrolytic 10μF/16V C504W1H010M C601-604 254 4250 005 Electrolytic 10μF/16V C504W1H010M C605,605 254 4254 005 Electrolytic 10μF/16V C504W1C100M C600 254 4254 005 Electrolytic 10μF/16V C504W1C100M C6112,613 253 1181 001 C6ramic 0.022μF/56V CK45F1H223Z D C652-664 254 4260 045 Electrolytic 1μF/50V CK45F1H223Z D C656-665 254 4260 045 Electrolytic 1μF/50V CC94W1H010M C667,668 254 4264 0045 Electrolytic 1μF/50V CE04W1H010M C677,678 254 4264 005 Electrolytic 10μF/50V CK45B1H11KD C679 254 4264 005 Electrolytic 10μF/50V CE04W1H010M C683-685 254 4264 005 Electrolytic 10μF/50V CE04W1H010M C683-685 254 4264 005 Electrolytic 10μF/50V CE04W1H010M C683-685 254 4260 045 Electrolytic 10μF/50V CE04W1H010M C683-685 25	C597,598 254 4260 045 Electrolytic 1µFr50	CK45=!E104Z
C599.600 254 4254 005 Electrolytic 10µF;16V C504W1C100M C605.605 605 254 4254 005 Electrolytic 10µF;16V C504W1C100M C605.605 605 254 4254 005 Electrolytic 10µF;16V C504W1C100M C609 610 254 4250 045 Electrolytic 10µF;16V C604W1H010M C612,613 253 1181 011 C6ramic 0.02µF;56V C64W1H010M C612,613 253 1181 014 C6ramic 0.02µF;56V CK45F1H223Z Dw C659-656 254 4260 045 Electrolytic 10µF;16V C604W1H010M C667,668 254 4260 045 Electrolytic 10µF;16V C604W1H010M C667,668 254 4254 006 Electrolytic 10µF;16V C604W1H010M C667,678 254 4254 006 Electrolytic 10µF;16V C604W1C100M C677,678 254 4254 006 Electrolytic 10µF;16V C604W1C100M C687,668 254 4254 006 Electrolytic 10µF;16V C604W1C100M C687,688 254 4254 006 Electrolytic 10µF;16V C604W1C100M C687,688 254 4254 006 Electrolytic 10µF;16V C604W1C100M C687,688 254 4254 006 Electrolytic 10µF;16V C604W1C100M C687,688 254 4254 006 Electrolytic 10µF;16V C604W1C100M C687,688 256 1034 038 Meralized 0.1µF;16V C604W1C100M C698,689 256 1034 036 Electrolytic 10µF;16V C604W1C100M C782 254 4254 048 Electrolytic 10µF;16V C604W1C100M C782 254 4254 048 Electrolytic 10µF;16V C604W1C100M C604W1C101M Meralized 0.1µF;56V C604W1C101M C604W	C599,800 254 4254 005 Electrolytic 10,Fr/11 C601-664 254 4256 045 Electrolytic 10,Fr/11 C605-665 254 4254 005 Electrolytic 10,Fr/11 C600 254 4254 005 Electrolytic 10,Fr/11 C600 254 4254 005 Electrolytic 10,Fr/11 C601 253 1181 014 Ceramic 0.02,Fr/15 C659-684 254 4254 006 Electrolytic 14,Fr50 C667,688 254 4254 005 Electrolytic 10,Fr/16 C677,678 254 4254 005 Electrolytic 10,Fr/16 C689-665 254 4254 005 Electrolytic 10,Fr/16 C689 254 4254 006 Electrolytic 10,Fr/16 C689 254 4254 007 Electrolytic 10,Fr/16 C689 254 4254 008 Electrolytic 10,Fr/16 C689 254 4254 006 Electrolytic 10,Fr/16 C689 254 4254 007 Electrolytic 10,Fr/16 C681 <td>6V CE04W1C101M</td>	6V CE04W1C101M
C601-664 254 4260 045 Electrolytic 1 (0.6716V) C606W11C10M C605 606 254 4254 006 Electrolytic 1 (0.6716V) C606W1C100M C609 610 254 4254 006 Electrolytic 1 (0.6716V) C604W1C100M C609 610 254 4254 006 Electrolytic 1 (0.6750V) C64W1H010M C611,613 253 1181 014 Ceramic 0.012/F50V CN45F1H1222 C0 C659-684 254 4260 045 Electrolytic 1 (0.6750V) C64W1H010M C656,666 254 4260 045 Electrolytic 1 (0.6750V) C64W1H010M C687,678 254 4264 005 Electrolytic 1 (0.6750V) C64W1H010M C677,678 254 4264 005 Electrolytic 1 (0.6750V) C64W1C100M C679 254 4264 005 Electrolytic 1 (0.6750V) C64W1C100M C688-685 254 4264 005 Electrolytic 1 (0.6750V) C65W1C100M C687 254 4264 005 Electrolytic 1 (0.6750V) C65W1C100M C687 268 28 20 045 Electrolytic 1 (0.6750V) C65W1C100M C687 268 28 20 045 Electrolytic 1 (0.6750V) C65W1C100M C687	C601-664 254 4260 045 Sectrolyte 1µF/50′ C605 606 254 4264 005 Electrolyte 10µF/10′ C6060 606 254 4264 005 Electrolyte 10µF/10′ C609 610 254 4260 045 Electrolyte 10µF/10′ C612 613 253 1181 041 Ceramic 0.02µF/50′ C659-664 254 4260 045 Electrolyte 1µF/50′ C659-664 254 4260 045 Electrolyte 1µF/50′ C666,666 254 4260 045 Electrolyte 1µF/50′ C667-668 254 4260 045 Electrolyte 1µF/50′ C677,678 254 4254 035 Electrolyte 1µF/50′ C679 254 4254 035 Electrolyte 1µF/50′ C679 254 4256 045 Electrolyte 1µF/50′ C679 254 4256 045 Electrolyte 1µF/50′ C669-685 254 4260 045 Electrolyte 1µF/50′ C669-685 254 4260 045 Electrolyte 1µF/50′ C669-681 256 1034 036 Electrolyte 1µF/50′ C660-681 256 1034 036 Electrolyte 1µF/50′ C7782 254 4254 048 Electrolyte 1µF/50′ C7782 254 4254 048 Electrolyte 10µF/16′ C7783 254 4250 045 Electrolyte 10µF/16	CE64W1H010M
C605.606 254.4254.005 Electrolyte 10μF/16V CE04W10100M C609 254.4254.005 Electrolyte 10μF/16V CE04W10100M C609 254.4260.045 Electrolyte 10μF/16V CE04W11010M C611 253.1181.011 Ceramic 0.02μF/50V CK45F1H1032.0μ C659.664 254.4260.045 Electrolyte 1μF/50V CK45F1H2032.0μ C665.665 254.4260.045 Electrolyte 10μF/50V CC04W1H010M C687.688 254.4260.045 Electrolyte 10μF/50V CC4W1C100M C677.678 254.4268.05 Electrolyte 10μF/50V CC504W1C100M C679 254.4268.05 Electrolyte 10μF/30V CC64W1C100M C680-685 254.4268.05 Electrolyte 10μF/30V CC64W1C100M C683-686 254.026.05 Electrolyte 10μF/30V CC64W1C100M C680-878 254.026.03 Electrolyte 10μF/30V CC64W1C100M C782 254.4250.048 Electrolyte 10μF/30V CC64W1C100M C683 254.4256.048 Electrolyte 10μF/30V CC64W1C100M C783 254.4256.068 Electroly	C605 605 254 4254 005 Electrolytic 10µF/11 C609 610 254 4254 005 Electrolytic 10µF/11 C611 253 1181 014 Ceramic 0.022µF/5 C659-664 254 4250 045 Electrolytic 1µF/501 C659-664 254 4250 045 Electrolytic 1µF/501 C659-664 254 4250 045 Electrolytic 1µF/501 C667-678 254 4250 045 Electrolytic 1µF/501 C687-678 254 4254 005 Electrolytic 1µF/501 C677-678 254 4254 005 Electrolytic 10µF/11 C689-685 254 4254 005 Electrolytic 1µF/501 C687-688 254 1254 005 Electrolytic 1µF/501 C687-688 255 1034 035 Electrolytic 1µF/501 C689-688 255 1034 035 Electrolytic 1µF/501 C689-688 255 1034 035 Electrolytic 10µF/11 C689-688 255 1034 035 Electrolytic 10µF/11 C689-688 255 1034 035 Electrolytic 10µF/11 C689-689 255 1034 035 Electrolytic 10µF/11 C689-689 255 1034 035 Electrolytic 10µF/11 C689-689 255 1034 035 Electrolytic 10µF/11 C689-689 255 1034 035 Electrolytic 10µF/11 C689-689 255 1034 035 Electrolytic 10µF/11 C689-689 255 1034 035 Electrolytic 10µF/11 C689-689 255 1034 035 Electrolytic 10µF/11 C689-689 255 1034 035 Electrolytic 10µF/11 C689-689 255 1034 035 Electrolytic 10µF/11 C689-689 255 1034 035 Electrolytic 10µF/11 C689-689 255 1034 035 Electrolytic 10µF/11 C689-689 255 1034 035 Electrolytic 10µF/11 C689-689 255 1034 035 Electrolytic 10µF/11 C689-689 255 1034 035 Electrolytic 10µF/11 C689-689 255 1034 035 Electrolytic 10µF/11 C689-689 255 1034 035 Electrolytic 10µF/11 C689-689 255 1034 035 Electrolytic 10µF/11 Electrolytic 10µF/11 C689-689 255 1034 035 Electrolytic 10µF/11 Ele	V CE04W1C100M
C606 254 4254 006 Electrotypic 10μF/16V CE04W1C100M C609 610 254 4256 045 Electrotypic 1μF/50V C604W1H010M C611 253 1181 001 Coramic 0.02μF/50V CN45F1H103Z D C659-664 254 4260 045 Electrotylic 1μF/50V CR45F1H223Z D C657,668 254 4254 006 Electrotylic 1μF/50V C604W1H010M C657,678 254 4254 006 Electrotylic 1μF/50V C604W1H010M C677,678 254 4254 005 Electrotylic 10μF/50V C604W1H010M C680-635 254 4254 005 Electrotylic 10μF/50V C604W1H010M C6836 254 4256 045 Electrotylic 10μF/50V C604W1H010M C6837,688 254 4256 045 Electrotylic 10μF/50V C604W1H010M C6837,688 254 4256 045 Electrotylic 10μF/50V C604W1H010M C6837,688 254 4256 045 Electrotylic 10μF/50V C793A1H124 C690,991 254 4256 046 Electrotylic 10μF/50V C795A1H124 C783 254 4256 048 Electrotylic 10μF/50V C795A1H124 C819 254 4256 048 <td>C600 254 4254 000 Electrofyte 10 pF ft C600 e10 254 4256 004 Electrofyte 1µF 50 C611 254 181 001 Coramic 0.01µF 50 C612,613 253 1181 001 Coramic 0.02µF 5 C650,666 254 4260 045 Electrofytic 1µF 50 C667,668 254 4254 006 Electrofytic 10µF 31 C667,678 254 4254 006 Electrofytic 10µF 32 C679 254 4254 005 Electrofytic 10µF 32 C680-685 254 4254 005 Electrofytic 10µF 32 C680-895 254 4254 005 Electrofytic 10µF 32 C683-895 254 4254 005 Electrofytic 10µF 32 C683-895 254 4254 005 Electrofytic 10µF 32 C684-885 256 1034 005 Ceramic 0.1µF 25 C782 254 4254 005 Electrofytic 10µF 32 C818 256 1034 005 Electrofytic 10µF 32 C817 254 4254 048 Electrofytic 10µF 32 C818 256 1034 076 Metalzaed 0.1µF 30 C821,822 256 1034 076 Metalzaed 0.1µF 30 C822,825 256 1035</td> <td>CEG4W1H016M</td>	C600 254 4254 000 Electrofyte 10 pF ft C600 e10 254 4256 004 Electrofyte 1µF 50 C611 254 181 001 Coramic 0.01µF 50 C612,613 253 1181 001 Coramic 0.02µF 5 C650,666 254 4260 045 Electrofytic 1µF 50 C667,668 254 4254 006 Electrofytic 10µF 31 C667,678 254 4254 006 Electrofytic 10µF 32 C679 254 4254 005 Electrofytic 10µF 32 C680-685 254 4254 005 Electrofytic 10µF 32 C680-895 254 4254 005 Electrofytic 10µF 32 C683-895 254 4254 005 Electrofytic 10µF 32 C683-895 254 4254 005 Electrofytic 10µF 32 C684-885 256 1034 005 Ceramic 0.1µF 25 C782 254 4254 005 Electrofytic 10µF 32 C818 256 1034 005 Electrofytic 10µF 32 C817 254 4254 048 Electrofytic 10µF 32 C818 256 1034 076 Metalzaed 0.1µF 30 C821,822 256 1034 076 Metalzaed 0.1µF 30 C822,825 256 1035	CEG4W1H016M
C609 610 254 4260 045 Electrotyno 1μF/50V CR04W1H010M C611 253 1181 011 Coramic 0.01μF/50V CX45F1H1032 Da C652,613 253 1181 014 Coramic 0.02μF/50V CX45F1H1232 Da C659-664 254 4260 045 Electroyic 1μF/50V C604W1H010M C666-666 254 4260 045 Electroyic 1μF/50V C604W1C100M C667-678 254 4254 005 Electroyic 10μF/50V CK45B1H101K Da C677-678 254 4254 005 Electroyic 10μF/50V C604W1C100M C680-685 254 4254 005 Electroyic 10μF/50V C604W1C100M C680-689 254 4254 005 Electroyic 10μF/50V C604W1C100M C681-689 254 4254 005 Electroyic 10μF/50V C604W1C100M C682-689 254 4254 005 Electroyic 10μF/50V C763A1H124 C683-689 254 003 Electroyic 10μF/50V C763A1H124 C782 254 4254 008 Electroyic 10μF/50V C764M1010M C783 254 4254 048 Electroyic 10μF/50V C764W1010M C819 254 4254 048 Electroyic	C609 610 254 4260 045 Electrolytic 1μF/60* C611 253 1181 001 Corrante 0.01μF/30* C652-613 253 1181 001 Corrante 0.01μF/30* C669-666 254 4260 045 Electrolytic 1μF/30* C669-666 254 4260 045 Electrolytic 10μF/30* C669-676 253 1179 000 Ceramic 100pF/30* C677-678 254 4254 025 Electrolytic 10μF/30* C679 254 4258 035 Electrolytic 10μF/30* C680-685 254 4250 05 Electrolytic 10μF/30* C683-688 254 4250 05 Electrolytic 10μF/30* C693-091 253 9030 06 Ceramia 0.1μF/25 C693-091 254 4254 046 Electrolytic 10μF/30* C693-254 254 4250 099 Electrolytic 10μF/30* C782 254 4250 099 Electrolytic 10μF/30* C819 254 4250 099 Electrolytic 10μF/30* C819 254 4250 048 Electrolytic 10μF/30* C819 254 4250 048 Electrolytic 10μF/30* C821 254 4250 048 Electrolytic 10μF/30* C822	V CE04W1C100M
C611 253 1181 001 Ceramic 0.02µF/50V CN45F1H103Z D= C612,613 253 1181 014 Ceramic 0.02µF/50V CN45F1H123Z D= C659-664 254 4280 045 Electroyid 1µF/50V CR04W1H010M C659-664 254 4280 045 Electroyid 1µF/50V CR04W1H010M C665,666 254 4280 045 Electroyid 1µF/50V CR04W1H010M C687-678 254 4254 025 Electroyid 10µF/16V CR04W11C100M C679 254 4280 035 Electroyid 10µF/16V CR04W11C100M C686-685 254 4280 045 Electroyid 10µF/16V CR04W11C100M C687-688 254 4280 045 Electroyid 10µF/16V CR04W11C100M C688-685 256 1024 039 Metallard 0.1µF/16V CR04W11C100M C687-688 254 4250 039 Electroyid 10µF/16V CR04W11C100M C782 254 4250 039 Electroyid 10µF/16V CR04W11C100M C817 254 4250 039 Electroyid 10µF/16V CR04W11C101M C818 254 111 025 Plastic Film 0.01µF/16V CR04W11C101M C819 254 1250 039 El	253 1181 001	V CE04W1C100M
C612,613 253 1181 014 Ceramic 0.022jiF/50V CK45F1H223Z Dec C665,666 254 4260 045 Electrotytic 1µF/50V CE04W14010M C667,6768 254 4254 005 Electrotytic 1qµF/50V CE04W14010M C667,6768 254 4254 005 Electrotytic 1qµF/50V CE04W14010M C677,678 254 4254 005 Electrotytic 1qµF/50V CK45B1 H101K Dec C677,678 254 4254 005 Electrotytic 1qµF/50V CK45B1 H101K Dec C680-685 254 4256 015 Electrotytic 1qµF/50V CE04W1C470M C680-685 254 4256 015 Electrotytic 1qµF/50V CE04W1C470M C680-686 254 4256 015 Electrotytic 1qµF/50V CE04W1C100M C690,991 253 9036 006 Ceramic 0.1µF/50V CE04W1C100M C690,991 253 9036 006 Ceramic 0.1µF/50V CF04W1C100M C6782 254 4256 003 Electrotytic 1qµF/50V CF05A1H124Z C6782 254 4256 003 Electrotytic 10µF/50V CF05A1H124Z C6782 C67	C612,613 253 1181 014 Ceramic 0.022,F75	GE04W1H019M
C659-664 254 4260 045 Electrolytic tupFiSOV C604W1H010M C665,666 254 4260 045 Electrolytic tupFiSOV C604W1H010M C667,668 254 4264 006 Electrolytic tupFiSOV C604W1H010M C667,668 254 4254 006 Electrolytic 10µFiSOV C654W1C100M C6680-667 254 4254 025 Electrolytic 10µFiSOV C654W1V100M C667 254 4254 006 Electrolytic 10µFiSOV C654W1V100M C686 254 4256 045 Electrolytic 10µFiSOV C654W1H010M C687, 688 256 1034 039 Merauded 0.12µFiSOV C654W1H010M C689, 689 253 8036 046 C654W1E3OV C764W1E40 C782 254 4250 039 Electrolytic 10µFiSOV C764W1021M C783 254 4250 039 Electrolytic 100µFiSOV C764W1010M C817 254 4250 039 Electrolytic 100µFiSOV C793A1H104J C818 256 1034 076 Metalized 0.1µFiSOV C793A1H104J C819 254 4250 039 Electrolytic 100µFiSOV C793A1H104J C821 255 1121 025 Pastic Fi	C659-664 254 4260 045 Electrolytic 1µF/501	:
C665,666 254,4260,045 Electróytic 1μF/50V CE04W1010M C667,668 254,4254,006 Electróytic 10μF/16V C63W10100M C668-676 253,1179,000 Ceramic 100pF/50V CK45B1.H101K De C677,678 254,4254,006 Electróytic 10μF/36V C62W1010M C679 254,4254,006 Electróytic 10μF/36V C62W1010M C680-685 254,4258,035 Electróytic 10μF/36V C62W1010M C681,688 256,1034,039 Electróytic 10μF/36V C65W1100M C682,688 256,1034,039 Electróytic 10μF/36V C782A1H124 C782 254,4259,039 Electróytic 10μF/36V C64W10100M C783 254,4259,039 Electróytic 10μF/36V C64W1010M C817 254,4254,048 Electróytic 10μF/36V C64W1010M C818 256,1034,078 Metalizad 0,1μF/56V C65WH/1010M C821,822 256,1025,075 Metalizad 0,1μF/56V C65WH/1010M C821,825 256,1025,077 Metalizad 0,2μF/56V C69AH/1010M C821,826 256,1025,077 Metalizad 0,2μF/	C665,666 254 4260 045 Electrofytic 1µE/50/ C667,668 254 4254 056 Electrofytic 10µE/50/ C667,678 254 4254 035 Electrofytic 10µE/50/ C667,678 254 4254 035 Electrofytic 10µE/50/ C677,678 254 4254 035 Electrofytic 10µE/50/ C687,688 254 4256 055 Electrofytic 10µE/50/ C680-685 254 4256 055 Electrofytic 10µE/50/ C683 254 4256 065 Electrofytic 10µE/50/ C690,991 253 9336 036 Ceramia 0.1µE/250/ C782 254 4254 046 Electrofytic 10µE/50/ C782 254 4254 046 Electrofytic 10µE/50/ C783 254 4256 039 Electrofytic 10µE/50/ C818 255 1034 076 Metalized 0.1µE/50/ C819 254 4256 048 Electrofytic 10µE/50/ C820 256 1034 076 Metalized 0.1µE/50/ C821 255 1131 025 Please Film 0.01µE/50/ C822 256 1035 031 Electrofytic 10µE/50/ C823 254 4256 032 Electrofytic 10µE/50/ C824 255 1034 076 Metalized 0.2µE/50/ C825 256 1035 031 Electrofytic 10µE/50/ C826 256 1035 031 Electrofytic 10µE/50/ C827 256 1035 031 Electrofytic 10µE/50/ C828 256 1035 031 Electrofytic 10µE/50/ C829 256 1035 031 Electrofytic 10µE/50/ C830 254 4256 032 Electrofytic 10µE/50/ C830 254 4256 032 Electrofytic 10µE/50/ C830 254 4256 032 Electrofytic 10µE/50/ C830 254 4256 032 Electrofytic 10µE/50/ C830 255 1031 037 Metalized 0.2µE/50/ C830 254 4256 032 Electrofytic 10µE/50/ C830 254 4256 032 Electrofytic 10µE/50/ C830 254 4256 032 Electrofytic 10µE/50/ C830 254 4256 032 Electrofytic 10µE/50/ C830 254 4256 032 Electrofytic 10µE/50/ C830 254 4256 032 Electrofytic 10µE/50/ C830 254 4256 032 Electrofytic 10µE/50/ C830 254 4256 032 Electrofytic 10µE/50/ C830 254 4256 032 Electrofytic 10µE/50/ C830 254 4256 032 Electrofytic 10µE/50/ C830 254 4256 032 Electrofytic 10µE/50/ C830 254 4256 032 Electrofytic 10µE/50/ C830 256 1034 076 Metalized 0.2µE/50/ C830 256 1034 076 Metalized 0.2µE/50/ C830 256 1034 076 Metalized 0.2µE/50/ C830 256 1034 076 Metalized 0.2µE/50/ C830 256 1034 076 Metalized 0.2µE/50/ C831 256 1034 076 Metalized 0.2µE/50/ C830 256 1034 076 Metalized 0.2µE/50/ C830 256 1034 076 Metalized 0.2µE/50/ C830 256 1034 076 Metalized 0.2µE/50/ C831 256 1034 076 Metalized 0.2µE/50/ C831	OV CK45F1H223Z D≈3
C867,668 254 4254 006 Electrolytic 10μF/16V CE04W1C100M C869-676 253 1179 000 Ceramic 100pF/50V CK45814101K December 2524 4254 025 C677,678 254 4254 025 Electrolytic 47μF/16V CE04W1C4700M C679 254 4254 025 Electrolytic 10μF/16V CE04W1C4700M C689 254 4254 006 Electrolytic 10μF/16V CE04W1C100M C683 254 4254 006 Electrolytic 10μF/16V CE04W1C100M C690.991 253 9033 006 Ceramic 0 11μF/25V CR45×16/12Z C782 254 4250 009 Electrolytic 10μF/16V CE04W1C100M C817 254 4250 009 Electrolytic 10μF/16V CE04W1C101M C818 256 1034 076 Metalized 0.1μF/50V CP3A3+H104J C819 256 1034 076 Metalized 0.1μF/50V CP3A4+H104J C821 256 1034 076 Metalized 0.1μF/50V CP3A4+H104J C821 256 1034 076 Metalized 0.1μF/50V CP3A4+H104J C824,222 256 1034 076 Metalized 0.1μF/50V CP3A1+H24J C824,822 256 1034 076	C667,668 254 4254 006 Electrolytic 10µFrit C689-676 253 1179 000 Ceramic 100pF/50 C677,678 254 4254 035 Electrolytic 10µFrit C6879 254 4258 035 Electrolytic 10µFrit C688-685 254 4254 006 Electrolytic 10µFrit C688-681 254 258 045 Electrolytic 10µFrit C687-682 256 1034 089 Metalzad 0.17µFrit C680-891 253 9030 006 Ceramic 0.1µFrit C782 254 4254 009 Electrolytic 10µFrit C783 254 4250 039 Electrolytic 10µFrit C818 256 1034 076 Metalzad 0.1µFrito C818 256 1034 076 Metalzad 0.1µFrito C821 255 1120 025 Plastic Firm 0.01µFrito C821 255 1120 025 Electrolytic 10µFrito C822 256 1034 076 Metalzad 0.1µFrito C822 256 1034 076 Metalzad 0.1µFrito C828 256 1034 076 Metalzad 0.1µFrito C829 256 1035 071 Metalzad 0.1µFrito C829 256 1035 071 <td< td=""><td>CE04W1H010M</td></td<>	CE04W1H010M
C667,668 254 4254 006 Electrolytic 10µF/15V CE04W1C100M C669-676 253 1179 000 Ceramic 100pF/50V CK45B11H101K DC C677,678 254 4254 025 Electrolytic 47µF/16V CE04W1C470M C679 254 4254 025 Electrolytic 47µF/16V CE04W1C100M C680-685 254 4254 006 Electrolytic 1µF/16V CE04W1C100M C683-685 256 1034 039 Meralized 0.7µF/16V CE04W1C100M C680-688 256 1034 039 Meralized 0.7µF/16V CF05A1H12U C690,991 259 9033 006 Ceramic 0.1µF/16V CF04W1C100M C782 254 4250 009 Electrolytic 10µF/16V CF04W1C100M C817 254 4250 009 Electrolytic 10µF/16V CF04W1C101M C817 256 1034 076 Metalized 0.1µF/50V CP04W1C101M C820 256 1034 076 Metalized 0.1µF/50V CP04W1C101M C821,822 256 1034 076 Metalized 0.1µF/50V CP04W1C101M C821,822 256 1034 076 Metalized 0.1µF/50V CP04W1101M C822,4255 002 Fleatrolyti	C667,688 254,4254,006 Electrolytic 10µF18 C669-676 253,1179,000 Ceramic 100pF/50 C677,678 254,4254,025 Electrolytic 10µF18 C6679 254,4254,005 Electrolytic 10µF18 C680-685 254,4250,005 Electrolytic 10µF18 C683,688 256,1034,003 Mestalled 0,12µF75 C690,991 253,9036,006 Ceramic 0,1µF25V C782 254,4254,006 Electrolytic 10µF78 C783 254,4254,006 Electrolytic 10µF78 C818 256,1034,076 Metalized 0,1µF150 C819 254,4254,048 Electrolytic 10µF78 C819 254,4254,048 Electrolytic 10µF78 C820 256,1034,076 Metalized 0,1µF150 C821 254,4255,002 Electrolytic 10µF78 C822 258,1034,076 Metalized 0,2µF5 C823 254,4256,002 Electrolytic 10µF78 C824,225 255,1034,076 Metalized 0,2µF5 C826 254,4256,002 Electrolytic 10µF78 C827 256,1035,091 Metalized 0,	CE04W1H010M
C669-676 253 1179 000 Ceramic 100pF/50V CK45B1 H101K Da C677,678 254 4254 025 Electrolytic 47µF/16V C50cw104 70M C679 254 4258 015 Electrolytic 10µF/36V C50cw104 70M C680-685 254 4256 045 Electrolytic 10µF/36V C50cw10100M C686-685 254 4256 045 Electrolytic 10µF/36V C50cw1100M C687-686 256 1034 036 Meralized 0.1µF/36V C50cw1100M C690-91 254 4254 048 Electrolytic 10µF/36V C64w1104C C782 254 4254 048 Electrolytic 10µF/36V C64w11010M C817 254 4254 048 Electrolytic 10µF/36V C69w11010M C818 256 1034 076 Metalized 0.1µF/36V C69w11010M C819 254 4255 048 Electrolytic 10µF/36V C69w1104M C820 256 1034 076 Metalized 0.1µF/36V C69w1104M C821 255 1121 025 Postic Firm 0.01µF/36V C69w1104M C822 256 1034 076 Metalized 0.2µF/36V C69w1104M C824 256 1035 011 Electrolytic 10µF/36	C869-676 253 1179 000 Ceramio 100pF/S01 C677 678 254 4254 035 Electrolytic 10pF/S0 C689-685 254 4258 015 Electrolytic 10pF/S0 C680-685 254 4258 035 Electrolytic 10pF/S0 C680-685 254 4250 005 Electrolytic 10pF/S0 C680-685 254 4250 005 Electrolytic 10pF/S0 C687-688 255 1034 035 Metalized 0.7 pF/S0 C782 254 4254 006 Electrolytic 10pF/S0 C782 254 4254 006 Electrolytic 10pF/S0 C873 254 4254 006 Electrolytic 10pF/S0 C873 254 4254 006 Electrolytic 10pF/S0 C873 254 4254 006 Electrolytic 10pF/S0 C870 254 4254 006 Electrolytic 10pF/S0 C870 254 4254 006 Electrolytic 10pF/S0 C870 255 1121 025 Prestic Film 0.0 fpF C624 255 1121 025 Prestic Film 0.0 fpF C624 255 121 025 Prestic Film 0.0 fpF C624 255 121 025 Prestic Film 0.0 fpF C624 255 121 025 Prestic Film 0.0 fpF C624 255 1121 025 Prestic Film 0.0 fpF C624 255 1121 025 Prestic Film 0.0 fpF C624 255 1121 025 Prestic Film 0.0 fpF C624 255 1121 025 Prestic Film 0.0 fpF C624 255 1121 025 Prestic Film 0.0 fpF C624 255 1121 025 Prestic Film 0.0 fpF C624 255 1121 025 Prestic Film 0.0 fpF C624 255 1121 025 Prestic Film 0.0 fpF C624 255 1121 027 Prestic Film 0.0 fpF C624 255 1121 027 Prestic Film 0.0 fpF C624 255 1121 027 Prestic Film 0.0 fpF C624 255 1121 027 Prestic Film 0.0 fpF C624 255 1121 027 Prestic Film 0.0 fpF C624 255 1121 027 Prestic Film 0.0 fpF C624 255 1121 027 Prestic Film 0.0 fpF C624 255 1121 027 Prestic Film 0.0 fpF C624 255 1121 027 Prestic Film 0.0 fpF C624 255 1121 027 Prestic Film 0.0 fpF C624 255 1121 027 Prestic Film 0.0 fpF C624 255 1121 027 Prestic Film 0.0 fpF C624 255 1121 027 Prestic Film 0.0 fpF C624 255 1121 027 Prestic Film 0.0 fpF C624 255 1121 027 Prestic Film 0.0 fpF C624 255 1121 027 Prestic Film 0.0 fpF C624 255 1121 027 Prestic Film 0.0 fpF C624 255 1121 027 Prestic Film 0.0 fpF	
C677,678 254 4254 025 Electrolytic 10μπ/35V CE04W10470M C679 254 4258 015 Electrolytic 10μπ/35V C604W11100M C680-685 254 4264 006 Electrolytic 10μπ/35V C654W10100M C686 254 4264 006 Electrolytic 10μπ/35V C564W10100M C687,688 256 1034 009 Meriatria 0.1μπ/25V CK45+15104Z C782 254 4250 009 Electrolytic 10μπ/16V C664W10100M C817 254 4250 009 Electrolytic 10μπ/16V C664W10100M C818 256 1034 076 Metalized 0.1μπ/50V C693A+1104J C819 254 4255 048 Electrolytic 100μπ/16V C604W10101M C821,822 255 1034 076 Metalized 0.1μπ/50V C693A+1104J C821,822 255 1034 076 Metalized 0.2μπ/50V C693A+1104J C821,822 255 1034 076 Metalized 0.2μπ/50V C693H+104J C822,255 1021 075 Plastic Film 0.01μπ/50V C693A+144W1M C823 254 1258 002 Electrolytic 10μπ/35V C694W11470M C829 256 1034 076 Metalized 0.2μπ/56V <td>C677,678 254 4254 025 Electrolytic 10,473 (C679 254 4258 015 Electrolytic 10,473 (C680-685 254 4251 005 Electrolytic 10,473 (C683-686 254 4250 045 Electrolytic 10,473 (C683-688 256 1034 039 Meralized 0.12,475 (C693-991 253 933 036 Cerram 0.1,147,254 (C782 254 4254 006 Electrolytic 10,471 (C781 254 4254 006 Electrolytic 10,471 (C818 256 1034 076 Meralized 0.1,471 (C818 256 1034 076 Meralized 0.1,471 (C818 256 1034 076 Meralized 0.1,471 (C818 256 1034 076 Meralized 0.1,471 (C818 256 1034 076 Meralized 0.1,471 (C818 256 1034 076 Meralized 0.1,471 (C818 256 1034 076 Meralized 0.1,471 (C818 256 1034 076 Meralized 0.1,471 (C819 254 4256 000 Electrolytic 10,471 (C824 255 1121 025 Plastic Film 0.01,47 (C826 254 4256 001 Electrolytic 10,471 (C827 256 1035 051 Meralized 0.1,471 (C828 256 1034 076 Meralized 0.1,471 (C829 256 1034 076 Meralized 0.1,471 (C830 255 1121 055 Plastic Film 0.01,47 (C831 254 4256 000 Electrolytic 10,472 (C831 254 4256 000 Electrolytic 10,472 (C832 256 1034 076 Meralized 0.1,471 (C833 254 4256 000 Electrolytic 10,472 (C834 256 1034 076 Meralized 0.1,471 (C836 1039 255 1121 057 Plastic Film 0.01,47 (C837 256 1034 076 Meralized 0.1,471 (C838 256 1034 076 Meralized 0.1,471 (C839 256 1034 076 Meralized 0.1,471 (C839 256 1034 076 Meralized 0.1,471 (C844 256 002 Electrolytic 10,471 (C847 256 1034 076 Meralized 0.1,471 (C848 256 003 Electrolytic 10,471 (C849 256 1034 076 Meralized 0.1,471 (C849 256 1034 076 Meralized 0.1,471 (C849 256 1034 076 Meralized 0.1,471 (C849 256 1034 076 Meralized 0.1,471 (C849 256 1034 076 Meralized 0.1,471 (C849 256 1034 076 Meralized 0.1,471 (C849 256 1034 076 Meralized 0.1,471 (C849 256 1034 076 Meralized 0.1,471 (C849 256 1034 076 Meralized 0.1,471 (C849 256 1034 076 Meralized 0.1,471 (C849 256 1034 076 Meralized 0.1,471 (C849 256 1034 076 Meralized 0.1,471 (C849 256 1034 076 Meralized 0.1,471 (C840 256 1034 076 Meralized 0.1,471 (C840 256 1034 076 Meralized 0.1,471 (C840 256 1034 076 Meralized 0.1,471 (C840 256 1034 076</td> <td>The second secon</td>	C677,678 254 4254 025 Electrolytic 10,473 (C679 254 4258 015 Electrolytic 10,473 (C680-685 254 4251 005 Electrolytic 10,473 (C683-686 254 4250 045 Electrolytic 10,473 (C683-688 256 1034 039 Meralized 0.12,475 (C693-991 253 933 036 Cerram 0.1,147,254 (C782 254 4254 006 Electrolytic 10,471 (C781 254 4254 006 Electrolytic 10,471 (C818 256 1034 076 Meralized 0.1,471 (C818 256 1034 076 Meralized 0.1,471 (C818 256 1034 076 Meralized 0.1,471 (C818 256 1034 076 Meralized 0.1,471 (C818 256 1034 076 Meralized 0.1,471 (C818 256 1034 076 Meralized 0.1,471 (C818 256 1034 076 Meralized 0.1,471 (C818 256 1034 076 Meralized 0.1,471 (C819 254 4256 000 Electrolytic 10,471 (C824 255 1121 025 Plastic Film 0.01,47 (C826 254 4256 001 Electrolytic 10,471 (C827 256 1035 051 Meralized 0.1,471 (C828 256 1034 076 Meralized 0.1,471 (C829 256 1034 076 Meralized 0.1,471 (C830 255 1121 055 Plastic Film 0.01,47 (C831 254 4256 000 Electrolytic 10,472 (C831 254 4256 000 Electrolytic 10,472 (C832 256 1034 076 Meralized 0.1,471 (C833 254 4256 000 Electrolytic 10,472 (C834 256 1034 076 Meralized 0.1,471 (C836 1039 255 1121 057 Plastic Film 0.01,47 (C837 256 1034 076 Meralized 0.1,471 (C838 256 1034 076 Meralized 0.1,471 (C839 256 1034 076 Meralized 0.1,471 (C839 256 1034 076 Meralized 0.1,471 (C844 256 002 Electrolytic 10,471 (C847 256 1034 076 Meralized 0.1,471 (C848 256 003 Electrolytic 10,471 (C849 256 1034 076 Meralized 0.1,471 (C849 256 1034 076 Meralized 0.1,471 (C849 256 1034 076 Meralized 0.1,471 (C849 256 1034 076 Meralized 0.1,471 (C849 256 1034 076 Meralized 0.1,471 (C849 256 1034 076 Meralized 0.1,471 (C849 256 1034 076 Meralized 0.1,471 (C849 256 1034 076 Meralized 0.1,471 (C849 256 1034 076 Meralized 0.1,471 (C849 256 1034 076 Meralized 0.1,471 (C849 256 1034 076 Meralized 0.1,471 (C849 256 1034 076 Meralized 0.1,471 (C849 256 1034 076 Meralized 0.1,471 (C840 256 1034 076 Meralized 0.1,471 (C840 256 1034 076 Meralized 0.1,471 (C840 256 1034 076 Meralized 0.1,471 (C840 256 1034 076	The second secon
C679 254 4258 015 Electrolytic ToµF195V CB04W111000M C680-685 254 4254 006 Electrolytic ToµF16V C660-W110100M C686 254 4256 045 Electrolytic TµF160V C664W110100M C687-688 254 4250 045 Electrolytic TµF160V C694W110100M C690-991 259 9036 006 Ceramic DitµF125V CK45±1704Z C7782 254 4250 039 Electrolytic 10µF16V C604W1C100M C817 254 4254 048 Electrolytic 100µF16V C604W1C101M C818 256 1034 076 Metalized 0.1µF150V C793A+H104U C821 256 1034 076 Metalized 0.1µF150V C793A+H104U C821 255 1121 025 Plastic Film 0.01µF150V C793A+H104U C821 255 1121 025 Plastic Film 0.01µF150V C793A+H104U C822 255 1025 017 Metalized 0.22µF150V C793A+H104U C823 254 4258 002 Electrolytic 10µF135V C793A+H105U C824 255 1021 025 Electrolytic 10µF135V C793A+H105U C829 256 1035 031 Electrolytic 10µ	C679	4
C680-688 254-4254-006 Electrosytic TQLF/160V CED4W1C100M C683 254-4256-045 Electrosytic TQLF/160V CEC4W11C100M C683 254-4256-045 Electrosytic TQLF/160V CEC4W11C100M C690-991 259-903-006 Ceramic Oligificacy CP45A14124 C690-991 259-903-006 Electrosytic 10gLF/16V CE64W1C100M C782 254-4250-009 Electrosytic 10gLF/16V CE64W1C101M C817 254-4250-009 Electrosytic 10gLF/16V CE64W1C101M C818 256-1034-076 Motalized 0.1gLF/50V CP3A4H104J C820 256-1034-076 Motalized 0.1gLF/50V CP3A4H104J C821,822 256-1034-076 Motalized 0.2gLF/50V CP3A4H104J C821,822 256-1034-076 Motalized 0.2gLF/50V CP3A4H104J C821,822 256-1034-076 Motalized 1.gLF/50V CP3AH14724 C822,825 256-1035-074 Motalized 1.gLF/50V CP3AH14724 C823,826 254-4256-002 Electrosytic 10gLF/50V CP3AH1475J C824 255-1121-007 Ele	C680-695 254 4254 005 Electrolytic 10µF16 C683 254 4250 045 Electrolytic 10µF16 C687,688 256 1034 033 Meraured 0.12µF15 C690,991 255 9036 006 Ceram on 1µF25 C782 254 4254 006 Electrolytic 10µF16 C783 254 4250 039 Electrolytic 10µF16 C817 254 4254 048 Electrolytic 10µF16 C818 256 1034 076 Metalized 0.1µF150 C820 256 1034 076 Metalized 0.1µF150 C821 256 1034 076 Metalized 0.1µF150 C822 256 1035 002 Electrolytic 10µF13 C823 254 4256 002 Electrolytic 10µF13 C824,225 255 1121 025 Pleaste Film 0.01µF C829 254 4256 002 Electrolytic 10µF13 C820 254 4256 002 Electrolytic 10µF13 C830 254 4256 003 Electrolytic 10µF13 C831 254 4256 004 Electrolytic 10µF13 C832 256 1034 076 Metalized 0.1µF50 C831 254 4256 005 Electrolytic 10µF13 <td>1</td>	1
C686 254 4250 045 Electrosylic tylE56V CEG4W1H610M C687,688 256 1034 038 Mesatzed 0.72µF/56V CEG5W1H610M C690,891 253 9036 006 Ceramic 0.1µF/56V CK45±15104Z C782 254 4254 008 Electrosylic 10µF/16V C664W10100M C817 254 4254 048 Electrosylic 100µF/16V C604W10101M C918 256 1034 076 Metalized 0.1µF/50V CF93A1H104J C819 254 4254 048 Electrosylic 100µF/16V C604W10101M C820 256 1034 076 Metalized 0.1µF/50V CF93A1H104J C821 254 4255 080 Electrosylic 10µF/50V CF93A1H104J C822 256 1034 076 Metalized 0.1µF/50V CF93A1H104J C823 254 4256 002 Electrosylic 10µF/50V CF93A1H104J C824 255 1035 01 Metalized 10µF/50V CF93A1H224J C828 254 4256 002 Electrosylic 10µF/50V CF93A1H104J C829 256 1035 011 Metalized 1µF/50V CF93A1H104J C820 256 1035 021 Metalized 1µF/50V	C686	
C887.688 256 1034 089 Meramed 0.12μ7/50V CPSSA14124J C690.991 250 9030 096 Ceramic 0.1μ7/25V CK45±151/04Z C7782 254 4254 008 Electrolytic 10μ7/16V CC694W10100M C783 254 4254 048 Electrolytic 100μ7/16V C694W10100M C817 254 4254 048 Electrolytic 100μ7/16V C694W10101M C818 256 1034 076 Metalized 0.1μ7/50V CF93A1H104J C820 256 1034 076 Metalized 0.1μ7/50V CF93A1H104J C623 254 4255 048 Electrolytic 100μ7/160V CC93M11+103J C623 254 4256 005 Electrolytic 14.7μ7/50V CC93M11+103J C624 255 1121 025 Pastic Film 0.01μ7/50V CD94W1147PM C623 254 4256 005 Electrolytic 10μ7/35V CD94W1147PM C624 255 1121 025 Pastic Film 0.01μ7/35V CD94W1147PM C628 254 4256 005 Electrolytic 10μ7/35V CD94W114PM C629 256 1035 015 Metalized 0.1μ7/50V C793A1H105J C630 254 4256 015 Electrolytic 10μ	C687,668 256 1034 089 Meralized 0.1287/5 C690,991 253 9336 036 Ceramic 0.1187/25 C782 254 4254 006 Electrolytic 10,6746 C783 254 4254 008 Electrolytic 10,6746 C817 254 4254 048 Electrolytic 1009/F1 C818 256 1034 076 Meralized 0.1487/50 C820 255 1021 022 Preside Film 0.01487 C821 255 1021 022 Preside Film 0.01487 C822 255 1021 022 Preside Film 0.01487 C823 254 4256 003 Electrolytic 4.7287 C824,225 255 1021 022 Preside Film 0.01487 C826 254 4256 003 Electrolytic 4.7287 C827,828 254 4256 003 Electrolytic 4.7287 C828 255 1021 022 Preside Film 0.01487 C829 256 1035 031 Metalized 0.1487/50 C820 255 1021 025 Plastic Film 0.01487 C820 255 1021 025 Plastic Film 0.01487 C821 254 4256 003 Electrolytic 4.7287/3 C823 254 4256 003 Electrolytic 4.7287/3 C824 255 1021 025 Plastic Film 0.01487 C825 256 1034 076 Metalized 0.1487/30 C826 258 1034 076 Metalized 0.1487/30 C827 258 1034 077 Metalized 0.1487/30 C828 258 1034 077 Metalized 0.1487/30 C828 258 1034 077 Metalized 0.1487/30 C828 258 1034 077 Metalized 0.1487/30 C828 258 1034 077 Metalized 0.1487/30 C828 258 1034 077 Metalized 0.1487/30 C828 258 1034 077 Metalized 0.1487/30 C828 258 1034 077 Metalized 0.1487/30 C828 258 1034 077 Metalized 0.1487/30 C829 258 1034 077 Metalized 0.1487/30 C829 258 1034 078 Metalized 0.1487/30 C829 258 1034 078 Metalized 0.1487/30 C829 258 1034 078 Metalized 0.1487/30 C829 258 1036 032 Electrolytic 1.8800 C829 258 1036 034 Plastic Film 0.0200/30 C829 258 1036 034 Plastic Film 0.0200/30 C829 258 1036 034 Plastic Film 0.0200/30 C829 258 1036 034 Plastic Film 0.0200/30 C829 258 1036 034 Plastic Film 0.0200/30 C829 258 1036 034 Plastic Film 0.0200/30 C829 258 1036 034 Plastic Film 0.0200/30 C829 258 1036 034 Plastic Film 0.0200/30 C820 258 1036 034 Plastic Film 0.0200/30 C820 258 1036 034 Plastic Film 0.0200/30 C820 258 1036 034 Plastic Film 0.0200/30 C820 258	
C090.891 250.9036.006 Ceramic 0.1µFl25V CK45±15104Z C782 254.4254.008 Electroytic 10µFrt6V C664W1C100M C783 254.4250.039 Electroytic 20µFr6.3V C9-64W1C1010M C817 254.4250.039 Electroytic 10µFr16V C804W1C101M C818 256.1034.076 Metalized 0.1µFr50V C9934.14104J C819 254.4254.048 Electroytic 100µFr60V C9934.14104J C821,822 256.1024.025 Metalized 0.1µFr50V C9934.14104J C821,822 256.1025 Plastic Film 0.01µFr50V C9934.14103J C824,825 256.1025 Electroytic 4.7µFr35V C9941149FM C827,828 254.4258.002 Electroytic 4.7µFr35V C994W114FMM C827,828 254.4258.002 Electroytic 4.7µFr35V C994W114FMM C830 255.1121.025 Plastic Film 0.01µFr50V C9934H105J C831 254.4258.002 Plastic Film 0.01µFr50V C9934H105J C832 256.1034.076 Metalized 0.1µFr50V C9934H105J C833 254.4076.076 Electroytic	CO90.991 250.9036 pole Ceramic 0.1µF.25V C782 254.4254 cole Electrolytic 10µF.15 C783 254.4254 cole Electrolytic 10µF.15 C817 254.4254 cole Electrolytic 100µF.1 C818 254.4254 cole Electrolytic 100µF.1 C819 254.4254 cole Electrolytic 100µF.1 C820 256.1034 orb Metalized 0.1µF.50 C821,822 255.1121 cole Prostic Film 0.01µF. C821,822 255.1121 cole Prostic Film 0.01µF. C824,825 256.1035 cole Electrolytic 10µF.25 C827,828 254.4256 cole Electrolytic 10µF.25 C829 254.1256 cole Electrolytic 10µF.25 C820 256.1035 cole Electrolytic 10µF.26 C821 254.4256 cole Electrolytic 10µF.26 C820 256.1034 cole Electrolytic 10µF.26 C831 254.4256 cole Electrolytic 10µF.26 C832 256.1034 cole Electrolytic 10µF.26 C833 254.4256 cole Electrolytic 10µF.26 C834 255.1	
C782 254 4254 008 Electrolytic 10µF/16V CE94W10100M C783 254 4250 009 Electrolytic 10µF/16V C594W101010M C817 254 4250 009 Electrolytic 10µF/16V C594W10101M C818 256 1034 078 Electrolytic 10µF/16V C593A 14104J C819 254 4254 048 Electrolytic 10µF/16V C593A 14104J C820 256 1034 076 Mataized 0.1µF/50V C593A 14104J C821,822 256 1034 076 Mataized 0.1µF/50V C593A 14104J C823 254 4255 002 Frectrolytic 4.7µF/50V C593M1+103J C824,225 256 1035 074 Mataized 0.2µF/50V C593M1+103J C827,868 254 4256 002 Electrolytic 4.7µF/50V C594W1100M C829 256 1035 081 Electrolytic 10µF/50V C694W147M7M C830 255 112*** 655** 118** 650 C795A** 1104J C795A** 1104J C831 254 4256** 002 Electrolytic 10µF/50V C795A** 1104J C694W147M7M C831 256 1034 076 Mataized 0.1µF/50V C795A** 1104J C795A** 1204J C795A** 1204J </td <td>C782 254 4254 506 Electrolytic 10_Fine C783 254 4250 609 Electrolytic 200µFis C817 254 4254 648 Electrolytic 100µFis C818 256 1034 076 Metalized 0.1µFiso C819 254 4254 648 Electrolytic 100µFis C820 256 1034 076 Metalized 0.1µFiso C821,822 255 1121 025 Precibi Firm 0.01µFiso C823 254 4255 002 Electrolytic 10µFiso C824,225 254 4256 002 Electrolytic 10µFiso C827,828 254 4256 002 Electrolytic 10µFiso C829 254 1035 091 Metalized 0.2µFiso C830 254 1035 091 Metalized 0.2µFiso C831 254 1035 091 Metalized 1.7µFiso C832 256 1035 091 Metalized 1.7µFiso C831 254 4256 002 Electrolytic 10µFiso C832 256 1034 076 Metalized 2.1µFiso C833 256 1035 091 Metalized 0.1µFiso C840 256 1034 076 Metalized 0.1µFiso C840 256 1034 076 Metalized 0.1</td> <td></td>	C782 254 4254 506 Electrolytic 10_Fine C783 254 4250 609 Electrolytic 200µFis C817 254 4254 648 Electrolytic 100µFis C818 256 1034 076 Metalized 0.1µFiso C819 254 4254 648 Electrolytic 100µFis C820 256 1034 076 Metalized 0.1µFiso C821,822 255 1121 025 Precibi Firm 0.01µFiso C823 254 4255 002 Electrolytic 10µFiso C824,225 254 4256 002 Electrolytic 10µFiso C827,828 254 4256 002 Electrolytic 10µFiso C829 254 1035 091 Metalized 0.2µFiso C830 254 1035 091 Metalized 0.2µFiso C831 254 1035 091 Metalized 1.7µFiso C832 256 1035 091 Metalized 1.7µFiso C831 254 4256 002 Electrolytic 10µFiso C832 256 1034 076 Metalized 2.1µFiso C833 256 1035 091 Metalized 0.1µFiso C840 256 1034 076 Metalized 0.1µFiso C840 256 1034 076 Metalized 0.1	
C788 254 4250 639 Electrolytic 100g F16V C9-64W0J221M C817 254 4254 648 Electrolytic 100g F16V C9-64W0J221M C818 256 1034 076 Metalized 0.1jgF150V C958A1H104J C820 254 4254 648 Electrolytic 100g F16V C958A1H104J C820 256 1034 076 Metalized 0.1jgF50V C993A1H104J C821 255 1121 025 Postic F1m 0.0 tigF50V C993A1H104J C822 255 1021 025 Postic F1m 0.0 tigF50V C993A1H104J C823 254 4256 002 Electrolytic 4.7jgF35V C994W11V100M C826 254 4256 002 Electrolytic 10jgF35V C904W11V100M C829 254 4256 015 Electrolytic 10jgF35V C904W11V100M C829 256 1035 051 Metalized 1jgF50V C904W11V100M C829 256 1035 051 Electrolytic 10jgF35V C904W11V100M C830 255 1121 057 Postic F1m 0.01jgF35V C904W11V100M C831 254 4256 046 Electrolytic 10jgF35V C904W11V100M C832 255 1121 057 Metalized 1jgF50	C788 254 4250 039 Electrolytic 220μF/K C817 254 4254 048 Electrolytic 100μF 1 C818 256 1034 076 Metalized 0.1μF/50 C820 256 1034 076 Metalized 0.1μF/50 C821,822 256 1034 076 Metalized 0.1μF/50 C821,822 256 1034 076 Metalized 0.1μF/50 C823 254 4256 002 Electrolytic 4.7μF/5 C826 254 4256 002 Electrolytic 4.7μF/5 C827,828 254 4256 002 Electrolytic 4.7μF/5 C829 256 1035 92 Metalized 4.7μF/5 C830 255 112 667 Metalized 4.7μF/5 C831 254 4256 002 Electrolytic 4.7μF/5 C832 256 1135 93 Metalized 0.1μF/50 C831 255 112 607 Metalized 0.1μF/50 C832 256 1035 91 Metalized 0.1μF/50 C833 254 4256 002 Electrolytic 100μF/50 C834 256 103 Metalized 0.1μF/50 C834 256 1034 574 Metalized 0.1μF/50 C844 256 027 Plastic Fire 0.002μF/50 C847 253 <t< td=""><td></td></t<>	
C817 254 4254 048 Electrolytic 100gF 16V CE04W1C161M C818 256 1034 076 Motalized 0.1µF160V CE04W1C161M C819 254 4254 048 Motalized 0.1µF160V CE04W1C161M C820 256 1034 076 Electrolytic 100,F116V CE04W1C161M C821 252 255 1121 025 Pastic Film 0.01µF150V CP03M1F103J C623 254 4256 002 Electrolytic 4.7µF156V CP03M1F103J C624 255 1075 017 Metalized 0.2µF156V CP03M1F103J C627,828 254 4256 015 Electrolytic 10µF135V CE04W11V107M C629 256 1035 011 Metalized 1µF156V CP03M1F105J C639 256 1035 021 Motalized 1µF156V CP03M11105J C630 255 1121 055 Plastic Film 0.01µF156V CP03M11105J C631 254 4256 016 Electrolytic 10µF156V CP03M11105J C632 256 1034 076 Metalized 2.1µF156V CP03M11104J C632 256 1034 076 Metalized 2.1µF156V CP03M116T1M C632 256 1034 077 Metalized 2.1µF156V	C817	
C818 256 1034 076 Metalized 0.1μF/50V CF93A+H104J C819 254 4255 048 Electrolytic 100, F16V C564W10101M C820 256 1034 076 Metalized 0.1μF/50V CF93A+H104J C821,822 255 1121 025 Pastic Firm 0.01μF/50V CF93A+H105J C823 254 4256 002 Electrolytic 4.7μF/55V CF94W1V4R/M C826 254 4256 002 Electrolytic 10μF/36V CF94W1V4R/M C827,828 254 4258 002 Electrolytic 10μF/36V CF94W1V4R/M C829 256 1035 951 Metalized 3.μF/50V CF93A+H105J C830 255 1121 955 Metalized 3.μF/50V CF93A+H105J C831 254 4258 002 Electrolytic 10μF/36V CF93A+H105J C832 256 1034 076 Metalized 2.μF/50V CF93A+H105J C833 254 4258 002 Electrolytic 10μF/50V CF93A+H104J C834 256 1034 076 Metalized 0.27LF/50V CF93A+H104J C833 256 1034 076 Metalized 0.27LF/50V CF93A+H104J C844-385 256 1034 076 Metalized 0.27LF/50V <td>C818 256 1034 076 Metalized 0.1µF/50 C819 254 4254 048 Electrolytic 100µF/50 C820 256 1034 076 Metalized 0.1µF/50 C821 822 255 1121 025 Prestle Film 0.01µF C823 254 4256 000 Electrolytic 4.7µF/50 C826 254 4256 000 Electrolytic 4.7µF/50 C827 828 254 4258 002 Electrolytic 4.7µF/50 C829 256 1035 051 Metalized 0.22µF/50 C829 256 1035 051 Electrolytic 4.7µF/50 C820 255 1121 087 Plaste Film 0.01µF C830 255 1121 087 Plaste Film 0.01µF C831 254 4256 000 Electrolytic 4.7µF/50 C832 255 1034 070 Metalized 0.2µF/50 C833 254 4256 000 Electrolytic 4.7µF/50 C833 254 4256 000 Electrolytic 4.7µF/50 C834 255 1034 070 Metalized 0.2µF/50 C835 254 4256 000 Electrolytic 4.7µF/50 C836 030 256 1034 070 Metalized 0.2µF/50 C838 255 1034 070 Metalized 0.1µF/50 C838 256 1034 070 Metalized 0.1µF/50 C838 256 1035 017 Metalized 0.2µF/50 C839 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C831 256 1035 017 Metalized 0.2µF/50 C832 256 1035 017 Metalized 0.2µF/50 C833 256 1035 017 Metalized 0.2µF/50 C833 256 1035 017 Metalized 0.2µF/50 C834 256 1035 017 Metalized 0.2µF/50 C836 256 1035 017 Metalized 0.2µF/50 C837 256 1035 017 Metalized 0.2µF/50 C838 256 1035 017 Metalized 0.2µF/50 C832 256 1035 017 Metalized 0.2µF/50 C832 256 1035 017 Metalized 0.2µF/50 C833 030 256 1035 017 Metalized 0.2µF/50 C834 256 1035 017 Metalized 0.2µF/50 C837 256 1035 017 Metalized 0.2µF/50 C838 256 1035 017 Metalized 0.2µF/50 C839 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C83</td> <td></td>	C818 256 1034 076 Metalized 0.1µF/50 C819 254 4254 048 Electrolytic 100µF/50 C820 256 1034 076 Metalized 0.1µF/50 C821 822 255 1121 025 Prestle Film 0.01µF C823 254 4256 000 Electrolytic 4.7µF/50 C826 254 4256 000 Electrolytic 4.7µF/50 C827 828 254 4258 002 Electrolytic 4.7µF/50 C829 256 1035 051 Metalized 0.22µF/50 C829 256 1035 051 Electrolytic 4.7µF/50 C820 255 1121 087 Plaste Film 0.01µF C830 255 1121 087 Plaste Film 0.01µF C831 254 4256 000 Electrolytic 4.7µF/50 C832 255 1034 070 Metalized 0.2µF/50 C833 254 4256 000 Electrolytic 4.7µF/50 C833 254 4256 000 Electrolytic 4.7µF/50 C834 255 1034 070 Metalized 0.2µF/50 C835 254 4256 000 Electrolytic 4.7µF/50 C836 030 256 1034 070 Metalized 0.2µF/50 C838 255 1034 070 Metalized 0.1µF/50 C838 256 1034 070 Metalized 0.1µF/50 C838 256 1035 017 Metalized 0.2µF/50 C839 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C831 256 1035 017 Metalized 0.2µF/50 C832 256 1035 017 Metalized 0.2µF/50 C833 256 1035 017 Metalized 0.2µF/50 C833 256 1035 017 Metalized 0.2µF/50 C834 256 1035 017 Metalized 0.2µF/50 C836 256 1035 017 Metalized 0.2µF/50 C837 256 1035 017 Metalized 0.2µF/50 C838 256 1035 017 Metalized 0.2µF/50 C832 256 1035 017 Metalized 0.2µF/50 C832 256 1035 017 Metalized 0.2µF/50 C833 030 256 1035 017 Metalized 0.2µF/50 C834 256 1035 017 Metalized 0.2µF/50 C837 256 1035 017 Metalized 0.2µF/50 C838 256 1035 017 Metalized 0.2µF/50 C839 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C830 256 1035 017 Metalized 0.2µF/50 C83	
C819 254 4254 048 Electrotytic 100, F16V CEC4W1C101M C820 256 1034 076 Metazzed 0.7, F16OV CP09A1-41.04.7 C821,822 255 1121 025 Pastic F1m 0.01 µF5OV CP09A1-41.04.7 C821,822 255 1121 025 Pastic F1m 0.01 µF5OV CP09A11+103J C824,825 256 1025 017 Metalizad 0.22µF3SCV CP09A11+22AJ C827,888 254 4256 002 Electronylid 10,F19SV CB04W11V4R7M C827,888 254 4256 002 Electronylid 10,F19SV CB04W11V4R7M C829 256 1035 011 Metalizad 0.1µF5OV CB04W11V4R7M C830 251 121 925 Plastic Film 0.01µF5OV CD03M1+103J C831 254 4256 002 Sectronylid 4.7µF5OV CD03M1+103J C832 256 1034 076 Metalizad 0.1µF5OV CP03A1+103J C833 254 4256 002 Sectronylid 4.7µF5OV CP03A1+122J C834 035 256 1034 077 Metalizad 0.2µF5OV CP03A1+123J C834 035 256 1034 078 Metalizad 0.2µF5OV CP03A1+123J C844 043 256 1034 078 <	C819	
CARD CARD 256 1034 076 Metalized 0.7μP/50V CP99A1 ±104 CARD 256 1101 025 Postic Pfm 0.0 01μF/50V CD99A11±103 CARD 254 4256 002 Postic Pfm 0.0 1μF/50V CD94W11V4R7M CARD 254 4256 002 Postic Pfm 0.0 1μF/50V CD94W11V100M CARD 254 4256 002 Electroylic 4.7μT/36V CR04W11V100M CARD 254 4256 002 Electroylic 10μF/36V CR04W11V100M CARD 255 1121 057 Plastic Pfm 0.01μF/56V CR04W11V100M CARD 256 1034 076 Metalized 0.1μF/56V CR04W11V100M CARD 256 1034 076 Metalized 0.1μF/56V CR04W11V100M CARD 256 1034 076 Plastic Fire 0.020μF/56V CR04W11V100M CARD 256 1034 076 Plastic Fire 0.020μF/56V CR04W11V100M CARD 256 1034 076	G820 256 1034 076 Metazed C.1µF/50 C821,822 256 1034 076 Protti Film 0.0 1 µF (2004) 256 1121 025 Protti Film 0.0 1 µF (2004) 256 1025 017 Metalzad 0.22µF/50 C826 254 4256 002 Electrolytic 4.7µF/50 C826 254 4256 002 Electrolytic 4.7µF/50 C820 256 1035 057 Metalzad 0.22µF/50 C820 256 103 058 Metalzad 1,µF/50 C830 255 112 055 Plaste Film 0.01µF/50 C830 254 4256 002 Secretylic 4.7µF/50 C830 255 1034 076 Metalzad 0.1µF/50 C832 255 1034 076 Metalzad 0.1µF/50 C834 335 255 1034 076 Metalzad 0.1µF/50 C834 335 255 1034 076 Metalzad 0.1µF/50 C834 355 025 1034 077 Metalzad 0.1µF/50 C840 643 255 1034 077 Metalzad 0.1µF/50 C840 643 255 1034 077 Metalzad 0.1µF/50 C840 643 255 1034 077 Metalzad 0.1µF/50 C840 643 255 1034 077 Metalzad 0.1µF/50 C840 643 255 1034 077 Metalzad 0.1µF/50 C840 643 255 1034 077 Metalzad 0.1µF/50 C840 643 255 1034 077 Metalzad 0.1µF/50 C840 643 256 1034 077 Metalzad 0.1µF/50 C8	
C821,822 255 1121 025 Pestic Film 0.01 pF:50 V C 093M1H-103J C823 254 4255 002 Electrolytic 4.7g,F-55 V CE04W1W4R7M C824,225 256 1025 015 Electrolytic 4.7g,F-55 V CB05A1H223J C826 254 4256 015 Electrolytic 4.7g,F-55 V CB04W1W100M C827,828 254 4256 015 Electrolytic 4.7g,F-55 V CB04W1W17M7M C829 256 1035 081 Motal acd 1,F-50 V CR32A1H105J C830 255 1121 085 Plastic Film 0.01,F-50 V CD35M1+165J C831 254 4256 046 Plastic Film 0.01,F-50 V CD35M1+165J C832 256 1034 047 Metal acd 0.1g-50 V CD35M1+164J C833 254 4256 046 Plastic Film 0.02,F-50 V CP34M1M7TM C834,335 256 1035 047 Metal acd 0.1g-50 V CP34M1M7TM C834,336 256 1035 047 Metal acd 0.1g-50 V CP34M1M7TM C844-943 256 1035 047 Metal acd 0.1g-50 V CP34M1M7TM C844-943 256 1035 047 Metal acd 0.1g-50 V CP34M1+03J C844-943 256 1034 067<	C821,822 256 1121 025 Prestie Film 10 (rp.F.) C823 254 4256 005 Effectivelyte 4.7g.b.F. C824,225 256 1025 017 Metalizer 0.2g.pf.5 C826,225 254 4256 002 Effectivelyte 4.7g.b.F. C827,828 254 4256 002 Effectivelyte 4.7g.f. C829 256 1035 98 Metalizer 0.2g.pf.5 C830 255 112 675 Plastic Film 10.0t.pf. C831 254 4256 016 Effectivelyte 10.g.pf.2 C832 256 1034 076 Metalizer 0.0g.pf.2 C834 255 1034 076 Metalizer 0.2g.pf.5 C834 255 1034 077 Metalizer 0.7g.pf.2 C836 1039 256 1034 077 Plastic Film 10.0z.pf. C836 1039 256 1034 077 Plastic Film 10.0z.pf. C837 254 4256 003 Flastic Film 10.0z.pf. C838 256 1034 077 Metalizer 0.1g.f. C839 256 1034 077 Metalizer 0.1g.f. C831 1364 256 1034 078 Plastic Film 10.0z.pf. C831 1364 256 1034 078 Metalizer 0.1g.f. C832 1364 256 1034 078 Metalizer 0.1g.f. C832 1364 256 1034 078 Met	
C623 254 4256 002 Electrolytic 4.7), F.55V CE04W1V4RVM C624.225 265 1025 017 Metalized 0.22), F.55V CB04W1V4RVM C627.828 254 4258 002 Electrolytic 10, F.35V CB04W1V4R7M C629 256 1035 951 Metalized 0.22), F.55V CB04W1V4R7M C629 256 1035 951 Metalized 1, F.50V CR94W1V4R7M C630 255 1121 955 Metalized 1, F.50V CR94W1V4R7M C631 254 4258 002 Electrolytic 100, F.50V CD93M1H103U C681 254 4258 002 Electrolytic 100, F.50V CD93M1H103U C683 254 4258 002 Electrolytic 100, F.50V CD93M1H103U C683 256 1034 076 Metalized 0.27LF 50V CD93M1H23U C683 256 1035 077 Metalized 0.27LF 50V CP93M1H25U C6840-839 256 1035 077 Metalized 0.17LF 50V CP93M1H25U C6840-843 256 1035 087 Plastic Film 0.01LF 50V CP65M1H35U C6841-254 256 1035 097 Clastic 0.11LF 50V CP65M1H35U C6841-254 256 1035 097	C623 254 4255 080 Electrolytic 4.7,F-5 C624,225 255 1025 077 Metalizad 0.22,F-5 C627,848 254 4255 081 Electrolytic 4.7,F-5 C627,848 254 4258 002 Electrolytic 4.7,F-5 C629 256 1035 081 Metalizad 0.22,F-5 C630 255 1121 085 Plastic Film 0.01,F- C631 254 4256 095 Electrolytic 4.7,F-3 C632 255 1034 076 Metalizad 0.22,F-5 C633 254 4256 095 Electrolytic 4.7,F-3 C634 335 256 1035 017 Metalizad 0.22,F-5 C636 254 4256 005 Electrolytic 4.7,F-3 C637 255 1034 076 Metalizad 0.22,F-5 C638 254 4257 032 Metalizad 0.23,F-5 C644 4845 255 1035 017 Metalizad 0.23,F-5 C644 485 255 1035 017 Metalizad 0.23,F-5 C644 485 255 1035 017 Metalizad 0.23,F-5 C645 254 4257 032 Pleatrolytic 4.7,F-5 C656 254 4257 032 Pleatrolytic 4.7,F-5 C656 254 4257 032 Pleatrolytic 1.8,F-5 C642 24 2567 045 Pleatrolytic 1.8,F-5 C642 24 2567 045 Pleatrolytic 1.8,F-5 C643 254 2567 045 Pleatrolytic 1.8,F-5 C643 254 2567 044 Pleatrolytic 1.8,F-5 C643 254 2567 044 Pleatrolytic 1.8,F-5 C644 2567 044 Pleatrolytic 1.8,F-5 C643 254 2567 044 Pleatrolytic 1.8,F-5 C644 2567 044 Pleatrolytic 1.8,F-5 C644 2567 044 Pleatrolytic 1.8,F-5 C644 2567 044 Pleatrolytic 1.8,F-5 C644 2567 044 Pleatrolytic 1.8,F-5 C644 2567 044 Pleatrolytic 1.8,F-5 C644 2567 044 Pleatrolytic 1.8,F-5 C644 2567 044 Pleatrolytic 1.8,F-5 C644 2567 044 Pleatrolytic 1.8,F-5 C644 2567 044 Pleatrolytic 1.8,F-5 C644 2567 044 Pleatrolytic 1.8,F-5 C644 2567 044 Pleatrolytic 1.8,F-5 C645 256 1034 Pleatrolytic 1.8,F-5 C646 256 1034 Pleatrolytic 1.8,F-5 C647 248 248 2567 044 Pleatrolytic 1.8,F-5 C647 248 248 2567 044 Pleatrolytic 1.8,F-5 C647 248 248 2567 044 Pleatrolytic 1.8,F-5 C647 248 248 2567 044 Pleatrolytic 1.8,F-5 C647 248 248 2567 044 Pleatrolytic 1.8,F-5 C647 248 248 2567 044 Pleatrolytic 1.8,F-5 C647 248 248 2567 044 Pleatrolytic 1.8,F-5 C647 248 248 2567 044 Pleatrolytic 1.8,F-5 C647 248 248 2567 044 Pleatrolytic 1.8,F-5 C647 248 248 2567 044 Pleatrolytic 1.8,F-5 C647 248 248 2567 044 Pleatrolytic 1.8,F-5 C647 248 248 2567 044 Pleatrolytic 1.8,F-5 C647 248 248 2567 044 Pleatrolytic 1.8,F-5 C647 248 248	1
C824,825 256 1025 017 Metalizad 0.22µ556V OPSSA1W223J C826 254,4256 015 Electroy (c.10µ538V) C864W114100M C827,888 254,4258 002 Electroy (c.10µ538V) C864W11477M C829 256,1035 961 Electroy (c.10µ538V) C964W11475M C830 255,1121 965 Plasto Film 0.01µ750V C934W1150J C831 254,4256 016 Electroy (c.10µ750V C934W1150J C832 256,124 076 Metalizad 0.1µ750V C954X11104J C833 254,4256 032 Sectroy (c.10µ750V) C954X11104J C834 254,4256 032 Sectroy (c.12µ750V) C954X11104J C830 256,1034 077 Metalizad 0.2µ750V C954X1140AJ C831 256,1034 077 Metalizad 0.1µ750V C954X1140AJ C844 256,1034 078 Metalizad 0.1µ750V C954X1140AJ C844 256,1034 078 Metalizad 0.1µ750V C954X1140AJ C844 256,1034 078 Metalizad 0.1µ750V C954X1140AJ C844 256,1034 078 Plastory (c.12µ7504V C954X1140A	C824,825 256 1075 017 Metalized 0.22µ515	
C826	C826 254 4262 315 Electrolytic 10,F.33 C827,848 254 4258 302 Electrolytic 4,7µ1.73 C829 256 1035 981 Metal 2cd 0,1µF.35 C830 255 112 655 Plastic Film 0,01µF.36 C832 256 1034 676 Metal 2cd 0,1µF.36 C832 256 1034 676 Metal 2cd 0,1µF.36 C834 335 256 1035 617 Metal 2cd 0,1µF.36 C834 335 256 1035 617 Metal 2cd 0,1µF.36 C844 C843 255 1121 067 Plastic Film 0,020µF.36 C844 C844 256 032 Plastic Film 0,020µF.36 C845 254 4257 052 Electrolytic 1,1µF.36 C851 254 4257 052 Electrolytic 1,1µF.36 C852 254 4257 052 Electrolytic 1,1µF.36 C853 254 4257 045 Electrolytic 1,1µF.36 C842 254 2557 045 Electrolytic 1,1µF.36 C	
C897.888 254.4258.002 Electroyele 4.7µ7.359	C897.828 254 4258 002 Electroysis 4,7µ7.3 C829 256 1035 951 Medialzod 3,µ756V C830 255 1121 695 Plaste Film 0,01µ.F C851 254 4256 016 Electroysis 10,µ756 C852 256 1034 076 Metalzod 0,1µ7.50 C853 254 4256 016 Electroysis 10,µ756 C834 355 1256 1034 076 Metalzod 0,1µ7.50 C834 355 256 1034 077 Metalzod 0,2µ7.55 C834 355 1034 077 Plaste Film 0,022µ.F C844 945 255 1131 067 Plaste Film 0,022µ.F C844 945 032 Plaste Film 0,022µ.F C851 254 4256 032 Plaste Film 0,022µ.F C851 254 4256 035 Electroysis 1,µ7.50 C851 254 4256 035 Electroysis 1,µ7.50 C853 254 4056 045 Electroysis 1,µ7.50 C853 254 4056 045 Electroysis 1,µ7.50 C854 254 6056 044 Fleetroysis 1,µ7.50 C854 254 6056 044 Fleetroysis 1,µ7.50 C854 255 014 Fleetroysis 1,µ7.50 C854 255 014 Fleetroysis 1,µ7.50 C854 255 014 Fleetroysis 1,µ7.50	
C629	C629 256 1035 951 Metal rod 1,4750V C630 255 1121 655 Phisis Film 0,61,475 C651 256 1034 676 Metal rod 0,51,475 C652 256 1034 676 Metal rod 0,51,475 C653 254 4655 002 Geometric 4,71,672 C634,835 256 1035 017 Metal rod 0,22,445 C654 639 256 1035 017 Metal rod 0,22,445 C654 639 256 1035 017 Metal rod 0,22,445 C654 639 256 1034 676 Metal rod 0,22,445 C654 639 639 256 1034 676 Metal rod 0,22,445 C654 639 639 256 1034 676 Metal rod 0,22,445 C654 639 639 256 1034 676 Metal rod 0,22,445 C654 C654 C654 C654 C654 C654 C654 C	
C830 255 1121 925 Plasto Film 0.01, F 50V COSSM1 +103J C831 284 4256 046 Electroytic 100, F35V CD64W1 E104M C852 256 1034 076 Metal zed 0.1 pF 50V CP64A11104J C683 254 4250 002 Februsylic 4.7 pF 50V C964A1147M C830,335 256 1035 017 Metal zed 0.2 pL 50V CP64A1123A C840,839 256 1035 017 Metal zed 0.2 pL 50V CP64A1123A C840,843 256 1034 076 Metal zed 0.2 pL 50V CP64A143A C841,844 256 1034 076 Metal zed 0.1 pL 50V CP64A1443 C842,845 256 1034 076 Metal zed 0.1 pL 50V CP64A1443 C843,856 253 1150 032 Curanto 6.0 pt 55V CP64A1444 C841,851 254 4251 032 Plactorytic 1, F. 50V CB64V+V49TM C851 254 4251 034 Plactorytic 1, F. 50V CB64V+V49TM C852 254 4251 045 Plactorytic 1, F. 50V CB64V+V49TM C853 254 4251 045 Plactorytic 1, F. 50V CB64V+V49TM C854 255 111 049 Plactorytic 1,	C830 255 1121 655 Plasto Film 0.01,F C831 254 4256 034 Electrosytic 130,F55 C832 256 1034 076 Metallaced 0.1,F55 C833 254 4256 032 Grecordy to 4.7,F13 C834 835 256 1035 017 Metallaced 0.29,F55 C836 839 256 1035 017 Metallaced 0.29,F55 C846 843 256 1034 076 Plasto Film 0.022,F55 C846 850 030 Ceramic 660,p753 C851 254 4257 032 Plastosytic 4.7,F15 C852 254 4257 035 Plastosytic 4.7,F15 C853 254 4050 045 Plastosytic 1,F150 C854 254 4050 045 Plastosytic 1,F150 C842 254 5050 047 Plastosytic 1,F150 C842 254 5050 047 Plastosytic 1,F150 C842 254 5050 047 Plastosytic 1,F150 C842 255 1011 087 Plastosytic 1,F150	,
C801 254 4256 046 Electropylon 00, Protect C804 White Forth C822 254 4256 048 Mata and 0, IPRSCV CP644 **H1041 C693 254 4256 032 Section to 4, IPRSCV CP644 **H1041 C693 254 4256 032 Section to 4, IPRSCV CP644 **H254 C693 255 1034 057 Member 20, 234 56V CP644 **H254 C694 255 1131 057 Plantic Film C022, Plant CCV C694 463 255 1131 057 Metallars 0, IPR 50V CP644 **H044 C694 254 4256 032 Planticyto 20, IPR 50V CC644 **H045 C691 254 4256 032 Planticyto 20, IPR 50V C6644 **H046 C651 254 4256 039 Planticyto 20, IPR 50V C6644 **H046 C652 254 4256 045 Planticyto 20, IPR 50V C6644 **H046 C653 254 4256 045 Planticyto 1, IPR 50V C6644 **H046 C642 254 4256 045 Planticyto 1, IPR 50V C6644 **H046 C659 254 4256 045 Planticyto 1, IPR 50V **Plantic C664 **H046 C669 254 4256 045<	C851	1
C852 256 1034 076 Metalized 0.1pF, SCV CF93A1 H104 J C633 254 4250 032 Stepting to 4,7pF 35V C804W1WR7M C634,335 256 1034 037 Memilian od 0 Zaph 95V CF93A1 H224 L C639,835 256 1034 037 Memilian od 0 Zaph 95V CF93A1 H224 L C649,943 255 1121 067 Fishis Fire Codg, FisoV CM04M1H223 L C644,945 256 1034 076 Metalized 0.1pF, 50V CM9A1H1043 L C649 1934 254 1350 032 Ceramic 680pF, 50V CM9A1H1043 L C649 1934 254 4057 052 Elsomorphic 4 7pF 50V C604W1447H1 C650 254 4057 052 Elsomorphic 1 pH, 50V C604W14821M C651 254 4057 054 Fishorphic 1 pH, 50V C604W14821M C652 254 4057 054 Fishorphic 1 pH, 50V C604W1401M3F C653 254 4057 054 Fishorphic 1 pH, 50V C604W1401M3F C654 255 1111 084 Phedicin 1 pH, 50V C604W1401M3F C659 256 4050 054 Fishorphic 1 pH, 50V C604W1401M3F C659 256 4050 054	G852 256 1034 676 Metal Zedio typiliso G633 254 4856 692 Stepropyto 4,77,67 2 G834,836 256 1035 677 Metal Zedio 22,675 G836 839 366 1035 872 Metal Zedio 22,675 G840-643 255 1034 667 Plastic Furri Clozo,6 G840-643 255 1034 677 Metal Zedio 1,675 67 G841-844 255 1034 7 Metal Zedio 1,675 67 G851 254 4057 695 Heaving to 4,767 67 G851 254 4057 695 Heaving to 1,675 67 G853 254 4057 695 Heaving to 1,675 67 G853 254 4057 695 Heaving to 1,675 67 G842 254 5067 694 Flesting to 1,675 67 G842 254 5067 694 Flesting to 1,675 67 G843 256 101 694 Flesting to 1,675 67	
C698	C633 254 4250 002 Steprosytic 4.79F 2. C634.335 256 1035 017 Metalized 0.22pF 5. C636.630 256 1035 017 Metalized 0.22pF 5. C640.643 255 1021 067 Plastic Fun (102.5). C644.643 255 1021 067 Plastic Fun (102.5). C644.644 256 1034 076 Metalized 0.1pF 50. C644.645 256 1034 077 Metalized 0.1pF 50. C644.645 254 4051 032 Plastic 200, IF 2. C655 254 4051 045 Plastic 200, IF 2. C656 254 4051 045 Plastic 1.1pF 60. C642 254 2051 047 Plastic Fun (10.1pf 60. C643 255 101.1082 Plastic Fun (10.1pf 60. C643 255 101.1082 Plastic Fun (10.1pf 60. C644 255 101.1082 Plastic Fun (10.1pf 60. C645 256 101.1082 Plastic Fun (10.1pf 60. C647 256 101.1082 Plastic Fun (10.1pf 60. C648 256 101.1082 Plastic Fun (10.1pf 60. C	
C834,835 256 1035 017 Metalized 0 22ph/50V CF934 14242 C886 839 256 1035 017 Metalized 0 22ph/50V CF934 14242 C884 843 256 1034 067 Plastic Fun C82ph/50V CF934 14242 C884 843 256 1034 076 Metalized 0 11ph/50V CP934111043 C884 859 C83 1150 032 Ceramio 63pph/50V CP934111043 C881 854 4251 032 Ceramio 63pph/50V CP944 1447M C851	C834,835 286 1005 017 Mera red 0 224-55 C830 839 256 1035 023 Meraldro 0.23,15 5 C840-843 255 1131 867 Plantur Fum 0.022,15 5 C848-859 C83 1136 032 Ceramio 640,075 3 C848-859 C83 1136 032 Plantulyor 4 7pF 9 C851 254 4257 052 Plantulyor 4 7pF 9 C852 264 4257 055 Plantulyor 1,5 50 C853 254 4050 045 Plantulyor 1,5 50 C854 254 4050 045 Plantulyor 1,5 50 C842 254 5050 047 Plantulyor 1,5 50 C642 254 5050 047 Plantulyor 1,5 50	
C880 839 266 1635 033 Meralete 0.20LF 56V CF0241 1630L C840 843 265 1131 067 Planto Fur 0.002LF 56V OLYMINEQUI O644-845 266 1634 076 Metalete 0.116 50V C95041 1630L C644-845 C63 1136 032 Cetamb 6.002LF 56V OLYMINEQUI O644-854 032 Cetamb 6.002F 52V OCES44 1436 032 Etambolyo 4.78F 56V C6644 1447M C851 284 4256 039 Riemolyto 200LF 25V OCES44 14470M C852 284 4256 045 Preordy to 1ph 6.00 C6644 14470 14470 C6544 14	0836 839 256 1035 082 Memicro 0.07.45 81 0840 643 255 1121 667 Plasto Fum 0.022,4 0644-945 256 1034 176 Methicro 0.118.50 0644 550 053 1180 002 Ceranio 64007552 0641-954 254 4051 002 Elembyto 4 765 0 0551 254 4051 055 Hembyto 220,6 2 0552 254 4051 045 Hembyto 1.5.50 055 254 4051 045 Hembyto 1.5.50 0552 254 5050 044 Fleshigh of 1.6.50 0542 255 500 044 Fleshigh of 1.6.50 0543 255 500 044 Fleshigh of 1.6.50 0543	
C840-843 265 1121 067 Plastic Fum ClossyF 50V CurosimiHasau C844-845 266 1034 076 Motalizad 0.1 pl. 50V Chacamintodu C846-850 C83 1130 032 Caramis 68 pp. 50V C854-11464 C851-854 254 4255 002 Plasticipus 4 7 pl. 55V C854-1148 7 M	C840 -643 255 m21 tell Plaste Firm C02226 C844 -645 265 m21 tell Plaste Firm C02226 C844 -645 265 m21 tell Plaste Firm C02226 C841 -244 254 m25 m22 Plaste Firm C02206 C841 -244 m25 m22 Plaste Firm C02206 C851 254 m25 m25 Plaste Firm C02206 C852 264 m25 m25 Plaste Firm C02206 C852 264 m25 m24 Plaste Firm C01 m2 C842 254 m25 m34 Plaste Firm C01 m3	
0844-845 256 1034 076 Moto/Esta 0.1µF.50V OPSCATH 04J 0849 850 083 1190 002 Curando 680pF.50V ON4851-861 MODE 0881-844 284 4851 002 Plantolytic 4 7µF 65V CSCAW 1447M 0885 284 4851 089 Plantolytic 20,µF 25V CSCAW 14821M 0886 284 4851 089 Prestralytic 1µF 55V CSCAW 14010M 0898 284 4030 048 Plantolytic 1µF 50V CSCAW 14010M 0892 284 4030 048 Plantolytic 1µF 50V CSCAW 14010M 0894 284 4030 048 Plantolytic 5 F 5 W 1474 5 FW CSCAW 1470 0895 285 100 100 Plantolytic 5 F 5 W 1474 5 FW CSCAW 1470 MM 0895 284 4090 048 Plantolytic 1470 FSW CSCAW 1490 MM 0895 284 4090 048 Plantolytic 1470 FSW CSCAW 1490 MM	0644-845 256 1034 076 Motořiz vo 0.136.50 0549 850 053 1180 002 Cerando 6800F/50N 0881-854 254 4255 002 Elemistro 4 765 01 0851 254 4255 055 Elemistro 220,65 0 05652 254 4250 045 Elemistro 124.50 0593 254 4250 045 Elemistro 124.50 0542 254 0050 045 Elemistro 144.50 0543 255 1111 084 Petrolo 54.50 0544 255 1111 084 Petrolo 54.50	1
OSAS 850 253 1180 002 Ceramia 680pR50V ONASSTHEST KIDST CBS1-254 254 4251 002 Placinsiyas 4 7pF 65V CBC4VMARDM CB51 254 4251 002 Placinsiyas 20pF 25V CBC4WMB221M CB58 254 4250 045 Prestrayto 1pF 50V CBC4W 1921M CB58 254 4250 045 Placinsiyos 1 1pF 50V CBC4W 1901M CB42 254 3050 044 Placinsiyos 1 1pF 50V CBC4W 1901M55 CB12 254 3050 044 Placinsiyos 1 1pF 50V CBC4W 1902M CB12 254 4050 045 Placinsiyos 1 1pF 50V CBC4W 1903M CB39 254 4050 045 Placinsiyos 1 1pF 50V CBC4W 1903M CB39 254 4050 045 Placinsiyos 1 1pF 50V CBC4W 1903M CB39 254 4050 045 Placinsiyos 1 1pF 50V CBC4W 1903M CB39 254 4050 045 Placinsiyos 1 1pF 50V CBC4W 1903M CB39 254 4050 045 Placinsiyos 1 1pF 50V CBC4W 1903M CB39 254 4050 045 Placinsiyos 1 1pF 50V CBC4W 1903M	0849 850 083 1180 002 Ceramio 680ptison 0881-284 284 425t 002 Electrolytic 4 7pt 5t 0851 284 425t 055 Electrolytic 250,th 2 0862 284 425t 045 Electrolytic 10,th 650 0842 284 425t 044 Electrolytic 118,500 0842 284 065t 044 Electrolytic 118,500	
C881-864 284 4256 002 Plantolyto 4 7pF 55V C804W1V4RTM C851 284 4256 009 Plantolyto 200,F 25V C804W18221M C862 284 4250 045 Plantolyto 1pH 50V C804W14010M C869 284 4250 045 Plantolyto 1pH 50V C804W14010M C869W14010M C8	C881-854 254 4251 032 Fleorolype 4 7pF 51 C861 254 4257 052 Fleorolype 220,F 2 C662 254 4257 045 Fleorolype 1,F 650 C653 254 4257 045 Fleorolype 1,F 650 C642 254 2567 044 Fleorolype 1,F 670 C643 256 551 084 Plants 1	1
C851 254 4250 052 Bierrugido 220,F 25V CECHW 5221M C852 254 4250 045 Preprojudino person CECHW 14010M C853 254 4250 045 Preprojudino person CECHW 14010M C854 254 6250 045 Preprojudino person CECHW 14010M C873 255 6110 085 Preprojudino person CECHW 14010M C874 254 4250 045 Biestro person CECHW 15010M C879 254 4250 045 Biestro person CECHW 15010M C879 254 4250 045 Biestro person CECHW 15010M C879 254 4250 045 Biestro person CECHW 15010M C879 254 4250 045 Biestro person CECHW 15010M	C881 284 4287 088 Riemolyto 220, F 2 C882 284 4287 048 Riemolyto 1, E 680 C883 284 4287 048 Riemolyto 1, E 680 C842 284 6067 044 Riemolyto 1, E 680 C842 286 6067 044 Riemolyto 1, E 680 C843 286 607 044 Riemolyto 1, E 680	
C688 284,4080,045 Preprojyto rujil,60V C84,40 Ho 10M C898 284,4090,048 Fleedry to rujil,60V C804,40 Ho 10M C848 284,2040,048 Fleedry to rujil,60V C504,040,047 C849 284,040,049 Predicipility to rujility to rujility to rujility to rujility to rujility to rujility to rujility to rujility to rujility to rujility to rujility to rujility to rujility to rujility to rujility to rujility to rujility to rujility to rujility rujil	C662 284,4060,045 Inequalytic rule,600 C853 284,4060,048 Fleeting for rule,600 C842 284,8060,054 Fleeting for rule,600 C643 285,000,004 Fleeting for rule,600 C643 285,000,004 Preside File of rule,600	;
CF58 284 4097 048 Fleetry to turk 50 v. CESS v. cell 6M C642 254 6060 634 Fleetry to turk 50 v. Fryorie CC140 0400 045 C63 255 101 084 Pred 5 Fill 6M of Viralle 8W CC04M 0400 054 C64 4,65 101 Fleetry for the 8W C64 0400 054 C65 254 4064 064 Fleetry for the 8W C65 0400 054 C65 254 4064 064 Fleetry for the 8W C65 0400 054 C67 254 4064 064 Fleetry file 170,4 8W C65 0400 054	OB53 284 4000 046 Flexible 14 4000 056 OB42 284 2060 054 Flexible 14 4000 056 DS 93 255 010 084 Preside 5 4000 0544	
COM2 26H 6060 514 7 mm/s to function (P) point CCTC1 (Hospitals) CC10 125 5151 684 Period 514 6 mm/s 64 CCM 74 4 4 4 4 510 CC10 254 4 454 10 1 Hearth (Hold) CCC 74 CCC 74 CCC 74 CC20 254 4 454 6 6 Hearth (Hold) CCC 74 CCC 74 CCC 74 CC20 254 4 454 6 6 Hearth (Hold) CCC 74 CCC 74 CCC 74 CC20 254 4 454 6 6 Hearth (Hold) CCC 74 CCC 74 CCC 74 CC20 254 4 454 6 6 Hearth (Hold) CCC 74 CCC 74 CCC 74 CC20 254 4 454 6 6 Hearth (Hold) CCC 74 CCC 74 CCC 74 CC20 254 4 454 6 6 Hearth (Hold) CCC 74 CCC 74 CCC 74 CC20 254 4 454 6 6 Hearth (Hold) CCC 74 CCC 74 CCC 74 CC20 254 4 454 6 6 Hearth (Hold) CCC 74 CCC 74 CCC 74 CC20 254 4 454 CCC 74 CCC 74 CCC 74 CCC 74	CB42 254 Scenish4 Fleatby of Iphyons CS 13 255 td 1 084 Physic Public Od 47;	
DE 19	06 19 1255 150 1 084 Pleufe File (10747)	
DTel 1022		The state of the s
0835-996 254-4050 0-8 Bleannight for SCV		and the second s
COVO CAR FOLD DVA ERLOUS VIOLATOUR BLEV C.E. F.W. 1.471M		
	· · · · · · · · · · · · · · · · · · ·	
		SV DB:47/1 47MM
		Z CEGRAVI GAZ CIII
COST 989 - 254 4991 INTEREST O YES 471,5 80V - CENTURATED	0937 989 254 4991 15 Biol Dydo 401.5 80	V OBA4004447004

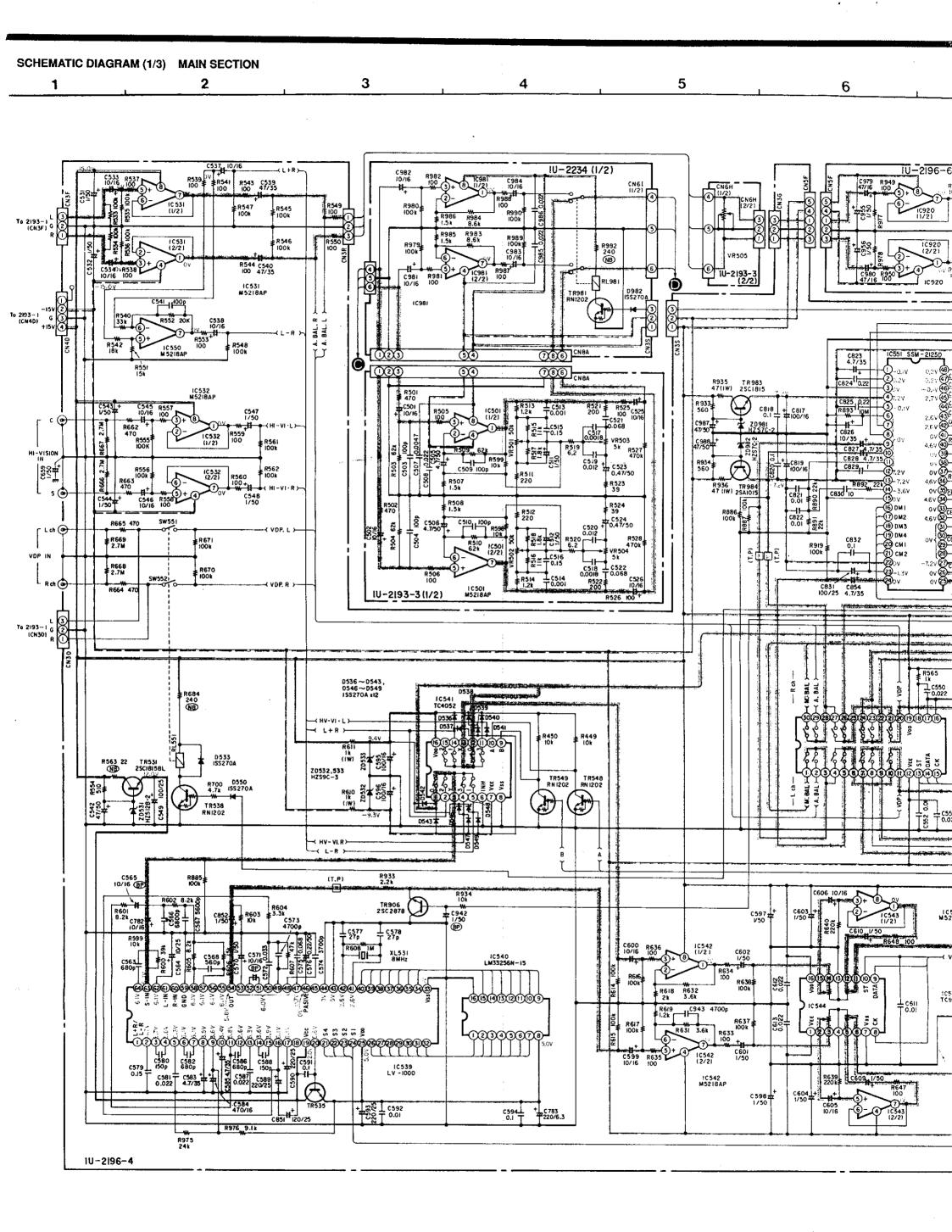
E.U. PARTS Li301-304 235 0068 004 Inductor Inductor Relay (DH2TU) R	Ref. No. Part No.		Part Name	Remark	s
Color	E.U. PAR	rs	<u> </u>		Q't
RL301,302 214 0129 001 Relay (DH2TU) RL551 214 0127 003 XL531 399 0122 008 ZATA 60X47 80X4 SATA 60X4 SATA			l Indicator	.: m4	
RI.551 214 0127 003 Relay (RY-12W) XX.531 399 0122 003 XXI 8MHz 2 204 8378 006 6P Pin Jack (S GND) 205 0632 002 8P Spoaker Terminal 205 0632 002 08 Fuse (InA) 202 0022 008 Fuse (InA) 202 0022 008 Fuse Holder 205 0185 038 205 0185 038 205 0185 038 205 0185 038 205 0185 038 205 0185 039 2P Wire Holder 3P Wire Holder 3P Wire Holder 3P Wire Holder 4P Wire Wire Wire Wire Wire Wire Wire Wire		1	!	1	. 2
X153* 399 0122 008 X1a19MHz 204 6878 008 6P Pin Jack (S GND) 205 0632 002 8P Spoaker Terminal 205 0632 002 8P Spoaker Terminal 202 0022 008 Fuse (InA) 202 0022 008 Fuse (InA) 202 0022 008 Fuse Holder 205 0185 028 2P Wire Holder 205 0185 028 2P Wire Holder 205 0185 027 2P Wire Holder 3P Wire Holder				1	. 1
### \$301,302 206 1046 043 Puse (10A)		1		i	. 1
### F301,302 205 0632 002 8P Spoaker Terminal 205 0146 043 Fuse (10A) 202 0022 008 Fuse Holder 205 0146 045 205 0146 025 205 0146 025 205 0146 045 20	,,,,,,		1	1	2
### F301,302 206 1046 043 Fuse (ThA) 202 0022 008 Fuse Holder		1	· ·		1
PW.Board PW.Board	& F301.302	1		+ -	2
P.W. Soard 2P.W. Soard	21.00/1000	1	• •	!	4
P.W.Board 2P Wire Holder 2P Wire Holder 2P Wire Holder 3P Wire Holder 3P Wire Holder 3P Wire Holder 3P Wire Holder 3P Wire Holder 3P Wire Holder 3P Wire Holder 3P Wire Holder 3P Wire Holder 3P EH Conn. Base 3P E				1	
P.W.Board 2P Wire Holder 2P Wire Holder 2P Wire Holder 3P Wire Holder 3P Wire Holder 3P Wire Holder 3P Wire Holder 3P Wire Holder 3P Wire Holder 3P Wire Holder 3P Wire Holder 3P Wire Holder 3P EH Conn. Base 3P E	OTHER P	ARTS		<u> </u>	
205 0185 025 2P Wire Holder 205 0185 035 3P Wire Holder 5P Wire Holder 5P Wire Holder 5P Wire Holder 6P Wire	OTHER F	Hn13	I sure	:	
205 0165 038 3P Wire Holder 205 0185 054 5P Wire Holder GP Wire		-		i	(1
205 C185 054 SP Wire Holder CN66 205 0185 057 GP Wire Holder S		:		-	
CN6G					1
CN96	O NOO				2
CNSG 205 0233 032 3P EH Conn. Base CNSJ 205 0276 039 3P EH Conn. Base (BK) CNSB 205 0276 031 3P EH Conn. Base (BC) CNSD 205 0276 031 3P EH Conn. Base (BC) CNSB 205 0230 045 3P EH Conn. Base (WW) CN4P 205 0276 044 4P EH Conn. Base (BC) CN6B 205 0276 064 4P EH Conn. Base (BC) CN6B 205 0276 069 4P EH Conn. Base (BC) CN6ELSF 205 0366 052 5P Conn. Base (BC) CN5ELSF 205 0369 055 5P Conn. Base (BC) CN15A 205 0375 055 1SP Conn. Base (BC) CN15A 205 0375 055 1SP Conn. Base (KR-PH) CN15A 205 0375 055 1SP Conn. Base (KR-PH) CN3F 205 0375 055 1SP Conn. Base (KR-PH) CN3I 203 0477 058 2SP H-SON Cord (RD) CN3E 204 0320 07 6P EH-SON Cord CN3F 203 4778 056 3P EH-SON Cord CN3F 203 4785 036 4P SIN Conn. Assy FIS 203 0487 032 4P SIN Conn.					
CNSU 205 0275 039 SP EH Conn. Base (BK) CNSR 205 0276 031 SP EH Conn. Base (RD) CNSR 205 0276 031 SP EH Conn. Base (BU) CNSR 205 0276 031 SP EH Conn. Base (BU) CNSR 205 0276 034 AP EH Conn. Base (FW) CN4P 205 0276 034 AP EH Conn. Base (FW) CN4P 205 0276 034 AP EH Conn. Base (BU) CN6B 205 02776 089 AP EH Conn. Base (BU) CN6B 205 02776 089 AP EH Conn. Base (BU) CN5E,SF 205 0966 052 SP EH Conn. Base (BU) CN5E,SF 205 0966 052 SP Corn Base (BI) CN5B 205 0585 055 SP Corn Base (BI) CN5B 205 0585 055 SP COrn Base (BI) CN11A 205 0343 016 TIP Conn. Base (KR-PH) CN15A 205 0375 055 TIP Conn. Base (KR-PH) CN15A 205 0375 055 TIP Conn. Base (KR-PH) CN15A 205 0375 055 TIP Conn. Base (KR-PH) CN3I 203 0467 022 TIP SIN Conn. Assy CN3I 203 0467 022 TIP SIN Conn. Assy CN3I 203 0467 022 TIP SIN Conn. Cond CN3F 203 0475 055 SP EH-SON Cord CN3F 203 0475 055 SP EH-SON Cond THE 203 0485 086 SP SON SON Conn. Cond CN6G 204 0340 SP SON SON Conn. Cond THE 203 0467 002 TIP SIN Conn. Assy TIP SIN Co					
CN3B		!	!		! ;
CN30		i	i ' '	1	'
CN3N		i		1	! ;
CN4# 205 0233 045 4P EH Conn. Base CN4D 205 0278 044 4P EH Conn. Base (BU) CN6B 205 0278 084 4P EH Conn. Base (BC) CN6I 205 0278 089 4P EH Conn. Base (BC) CN5ELSF 205 0866 082 5P Corn. Base (9130) CN5ELSF 205 0867 081 5P Corn. Base (19130) CN15A 205 0843 016 11P Corn. Base (KR-PH) CN15A 205 0843 016 11P Corn. Base (KR-PH) CN15A 205 0847 082 11P Corn. Base (KR-PH) CN15A 205 0847 085 8P EH-SON Cord CN3I 203 0487 085 8P EH-SON Cord CN3I 203 478 005 8P EH-SON Cord CN3I 203 478 005 8P EH-SON Cord CN3I 203 478 005 8P EH-SON Cord CN3I 203 478 005 8P EH-SON Cord CN3I 203 478 005 8P EH-SON Cord CN3II 203 478 005 8P EH-SON Cord CN3II 203 478 005 8P EH-SON Cord CN4I 203 047 006 4P SIN Corn. Assiy <		i			: :
CN4D 205 0276 084 4P EH Conn. Base (BU) CN6B 205 0276 088 4P EH Conn. Base (BK) CN6E 205 0266 082 4P EH Conn. Base (BK) CN5E,5F 205 0266 082 5P Conn. Base (BC) CN5E,5F 205 0266 082 5P Conn. Base (BC) CN5E,3F 205 0264 085 5P Conn. Base (BC) CN11A 205 0243 016 11P Conn. Base (KR-PH) CN15A 205 0275 055 15P Conn. Base (KR-PH) CN16A 205 0275 055 12P SIN Conn. Base (KR-PH) CN3I 203 0467 022 12P SIN Conn. Base (KR-PH) CN3I 203 0478 085 3P EH-SCN. Cord CN3I 203 0478 088 3P EH-SCN. Cord CN3I 203 0478 085 3P EH-SCN. Cord CN3I 203 0478 085 3P EH-SCN. Cord CN3I 203 0478 086 3P SIN SCN. Cord CN3I 203 0485 086 3P SIN Corn. Cord CN4I 203 0478 089 1P SIN Corn. Acry FF 203 0478 089 1P SIN Corn. Acry FF 203 0470 089 1P SIN Corn. Acry <td></td> <td></td> <td></td> <td>i</td> <td></td>				i	
CN68					l 1
CM6I 205 0277 069 4P EH Conn. Base (RD) CM5E.SF 205 0667 051 CM5C.SF 205 0667 051 CM6G 205 0567 051 CM15A 205 0375 055 CM15A 205 0375 055 CM7 14 205 0375 055 CM7 15A 205 0375 055 CM7 15A 205 0375 055 CM7 15A 205 0375 055 CM7 15A 205 0375 055 CM7 15A 205 0375 055 CM7 15A 205 0375 055 CM7 15A 205 0375 056 CM7 15A 205 0575 0575 0575 CM7 15A 205 0575 0575 CM7 15A 205 0575 0575 CM7 15A 205 0575 CM7 1		1		•	; ; ;
CNSELSE 205 0866 052 SP Corn. Base (9130) CNSCLER 205 0667 051 SP Corn. Base (9130) CNSG 205 0655 065 SP Corn. Base (19132) GP VH Corn. Base (NR-PH) CN15A 205 0349 016 119 Corn. Base (KR-PH) CN15A 205 0375 065 119 Corn. Base (KR-PH) CN31 203 467 022 19 S'N Corn. Assly CN31 203 467 022 19 S'N Corn. Assly CN31 203 4675 068 SP EH-SCN Cord (PD) CN6E 204 0322 007 69 EH-SCN Cord AA 203 465 086 SP SCN SCN Corn. Cord CN6G 204 0323 066 SP SCN SCN Corn. Cord CN6G 204 0324 066 SP VH Corn. Cord CN6G 204 0325 067 SP EH-SCN Cord AA 203 465 086 SP SCN SCN Corn. Cord CN6G 204 0324 066 SP SCN SCN Corn. Cord CN6G 204 0324 066 SP SCN SCN Corn. Assly FF 203 0467 006 SP SIN Corn. Assly FF 203 0467 006 SP SIN Corn. Assly FF 203 0467 006 SP SIN Corn. Assly FF 203 0467 006 SP SIN Corn. Assly FF 203 0467 006 SP SIN Corn. Assly FF SIN Corn. Assly FF 203 0467 007 SP SIN Corn. Assly FF SIN Corn. Assly FF 203 0467 007 SP SIN Corn. Assly FF				•	1
CNSCLEF 205 0687 051 SF Conn. Base L (9130)					2
CNSG	ONSELSE			1	1 2
CN11A 206 0343 016 119 Conn. Base (KR-PH) CN15A 205 0375 055 15P Conn. Base (KR-PH) D-D 203 0467 032 119 SN Conn. Base (KR-PH) CN31 203 4573 058 39 EH-SCN Cord (RD) CN32 203 4778 005 39 EH-SCN Cord AA 203 4955 086 39 SCN SCN Conn. Cord CN63 204 034 006 69 VH Conn. Cord CN63 204 034 006 69 VH Conn. Cord CN63 204 034 006 69 VH Conn. Cord CN63 204 036 006 69 VH Conn. Cord CN63 204 036 006 69 VH Conn. Cord CN63 204 036 006 69 VH Conn. Cord CN63 205 0467 016 69 SN Conn. Asby EH 203 0467 016 19 SN Conn. Asby EH 203 0467 016 19 SN Conn. Asby CNC 204 0467 016 19 SN Conn. Asby CNC 205 0467 016 19 SN Conn. Asby CNC 205 0467 016 10 SN Conn. Asby CNC 205 0					. 1
CN15A	CN11A	1			١,
D-D 203 6467 022 19 S'N Conn Assy		1	i		1
CNGS	O-D	l .			. 1
CN3F	ONBL	203 4673 058	3P EH-SON Gord (RD)		, 1
A-A 203 4485 986 SP SCN SCN Cont. Cord CNG3 204 8334 986 SP VH Cont. Cord H= 903 643 206 FP SIN Cont. Astly A-A 203 2435 986 FP SIN Cont. Astly H-F 203 6457 996 FP SIN Cont. Astly H-F 203 6457 992 FP SIN CONT. Astly H-F 203 6457 992 FP SIN CONT. Astly H-F 203 6457 992 FP SIN CONT.	CNOS	204 0323 007	6P EH-SON Cord		1
CNG CO CO CO CO CO CO CO C	ON3F	203 4778 005	SPIEH-SCN Cord		
### P03 0-83 026 IP SIN Gern Astly AA	A-A	203 4685 086	3P SCN SQN Conn. Cord		
A-A 23 0403 039 P SIN Genn, Asby FF 1003 0447 036 P SIN Genn, Asby G-C 26040 019 P SIN Genn, Asby G-C 26040 000 P SIN Genn,	ONGS	204 0334 006	GP VH Conn. Cord		
FIS 1203 0467 036 1P SIN Conn. Assy 9:8 1003 0467 038 1P SIN Conn. Assy 0:0 203 0467 038 1P SIN Conn. Assy 0:0 1003 0407 038 1P SIN Conn. Assy 0:028 000 035 032 1P SIN Conn. Assy 0:028 000 035 037 1P SIN Conn. Assy 0:028 000 035 037 1P SIN Conn. Assy 0:028 040 035 037 1P SIN Conn. Assy 0:028 040 035 057 057 057 057 057 057 057 057 057 05	12-≌	P08 0-63 J26	17 SIN Conn. Ast y		
### C96 0457 016 I P SIN Count Actly O-C	A-A	208 0469 089	1P SPV Cons. Assay		*
0-0 202 0467 000 TP SIN Conn. Acry PSIN Conn. Acry PSIN Conn. Acry PSIN Conn. Acry PSIN Conn. Acry PSIN Conn. Acry PSIN Conn. Acry PSIN Conn. Acry PSIN Conn. Acry PSIN Conn. Acry PSIN Conn. Acr. Acr. Acr. Acr. Acr. Acr. Acr. Acr					:
OF	E-8	203 6467 chs	1P SIN Count Acey		
000 000 000 000 90 0000 0000 90 0000 0000 90 0000 0000 90 0000	0-0				•
6-93	r.F				
8.4	ONER	002 0009 052	90 Ripbon Carel		
990 906 006 007 10 8060 Wile (105 0644 000 10) Wildergeng Primare	G-3	USB 0018 074	SG 75-bb vs Genet		:
, 105 5544 0x5 - Qe Magyang Permine					:
	0.0				
n coa (101 000 Hoff 81% Canh. Assly) Afi					
	12				
Table State Clark Duty 18 StA Control Cyrle		253 (351 067)	18 SAN Abrasi Cyre		

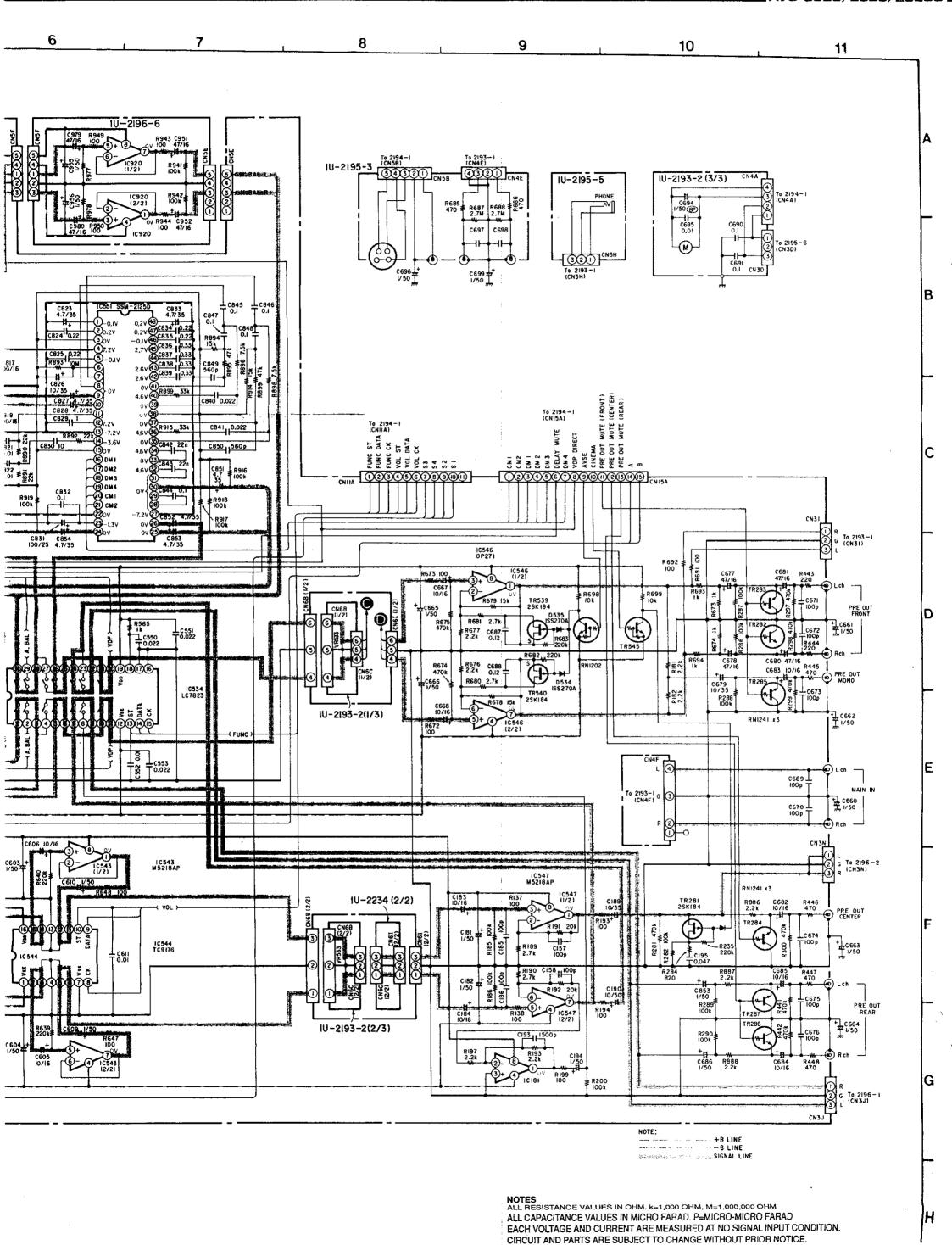
1U-2234 VDP UNIT ASS'Y

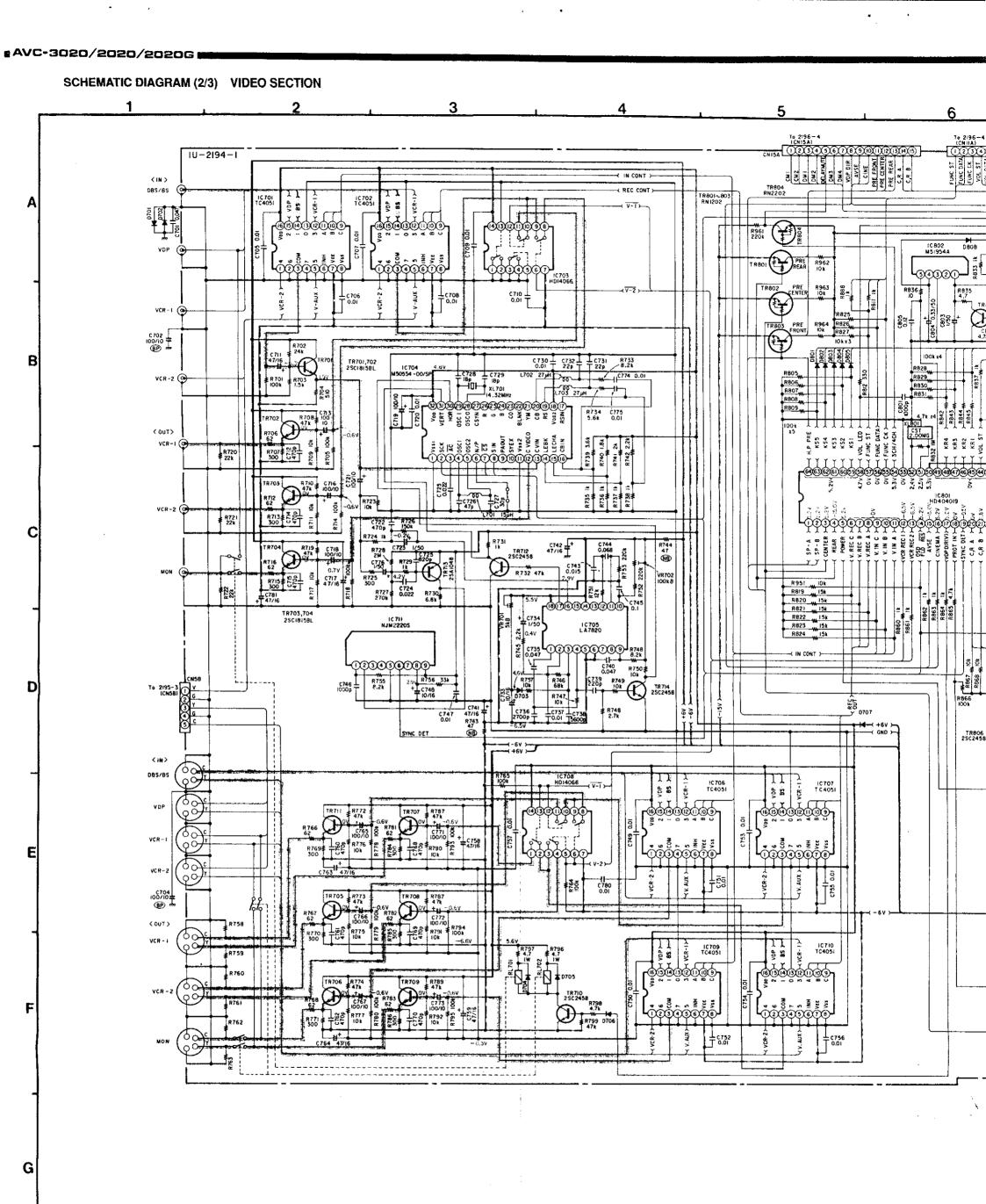
Ref. No.	Part No.	Part Name	Remarks
SEVECON	NDUCTORS		
17321	260 0 111 000	NO MERIKAP	
1.5c. 31		Transister HN (202:198-10	ri Sato Palata
1.5%		J cga 198270A	
RESISTO	RS (not inclu	! ded Carbon Film ±5%, '	I.4W Type.
	Refer to	the Schematic Diagram	for those parts.)
R992	241 2378 933	Carbon Film	FID1482E241JNBS
	1	240Ω.1/4W (N.B)	
	i		
		!	i
CAPACIT	ORS		
C981-984	254 4254 006	Elastrolytic 10±F-167/	0904W1U100M
C985.986	: 253 1181 014	Ceramic 9.082µF/50V	CK45F1h223Z D (
	*	İ	
		 -	
E.U. PAR	TS	· · · · · · · · · · · · · · · · · · ·	Q'I
BL901		Beray (BY-12W)	1
	1121 000		
		: !	
OTHER F	ADTO	<u>i</u>	
UINERP		i =	
		F.W.Board	
CM3S		3º EH Conn. Base	
CNaC		6P Erl Conn. Base	•
CN6I		6P EH Conni Base (RD)	
CN3A CN6C		SP EP Conf. Base	
CNOS	203 4652 040	3P Er: Conn. Cord	
			1
			1
	-	:	
			1
	!	!	
	i		1
	İ		
			1
	į		
	1		•
	i		
	1	i	
			1
			:
	•	! :	
	•	:	1
	1	l	1
	1		
	1		1
	1		
	•		











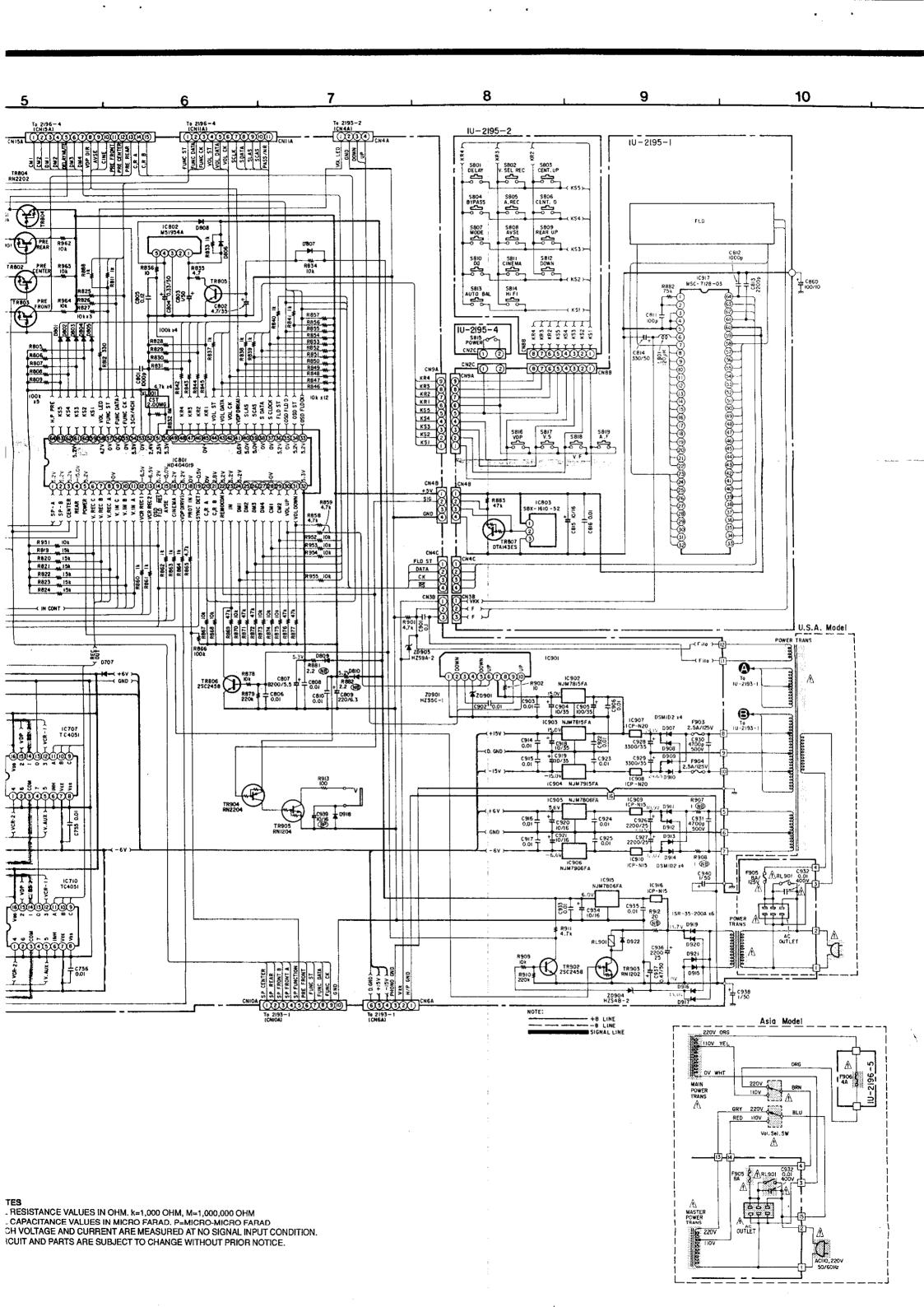
Parts marked with this symbol Δ with this symbol Δ have critical characteristics.

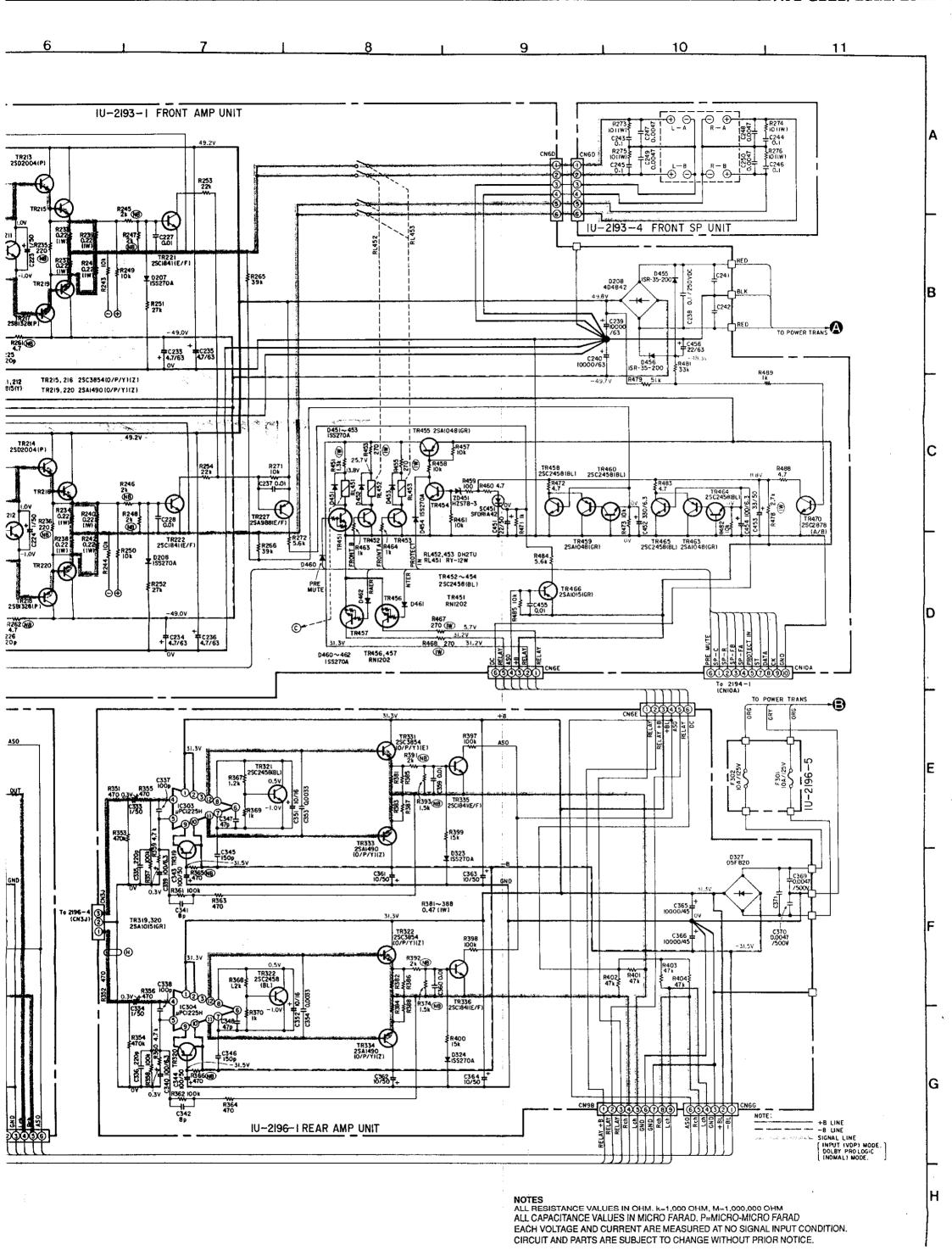
Use ONLY replacement parts recommended by the manufacturer.

Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check. If the leakage current exceeds 0.5 milliamps, or if the resistance from chassis to either side of the power cord is less than 240 kohms, the unit is

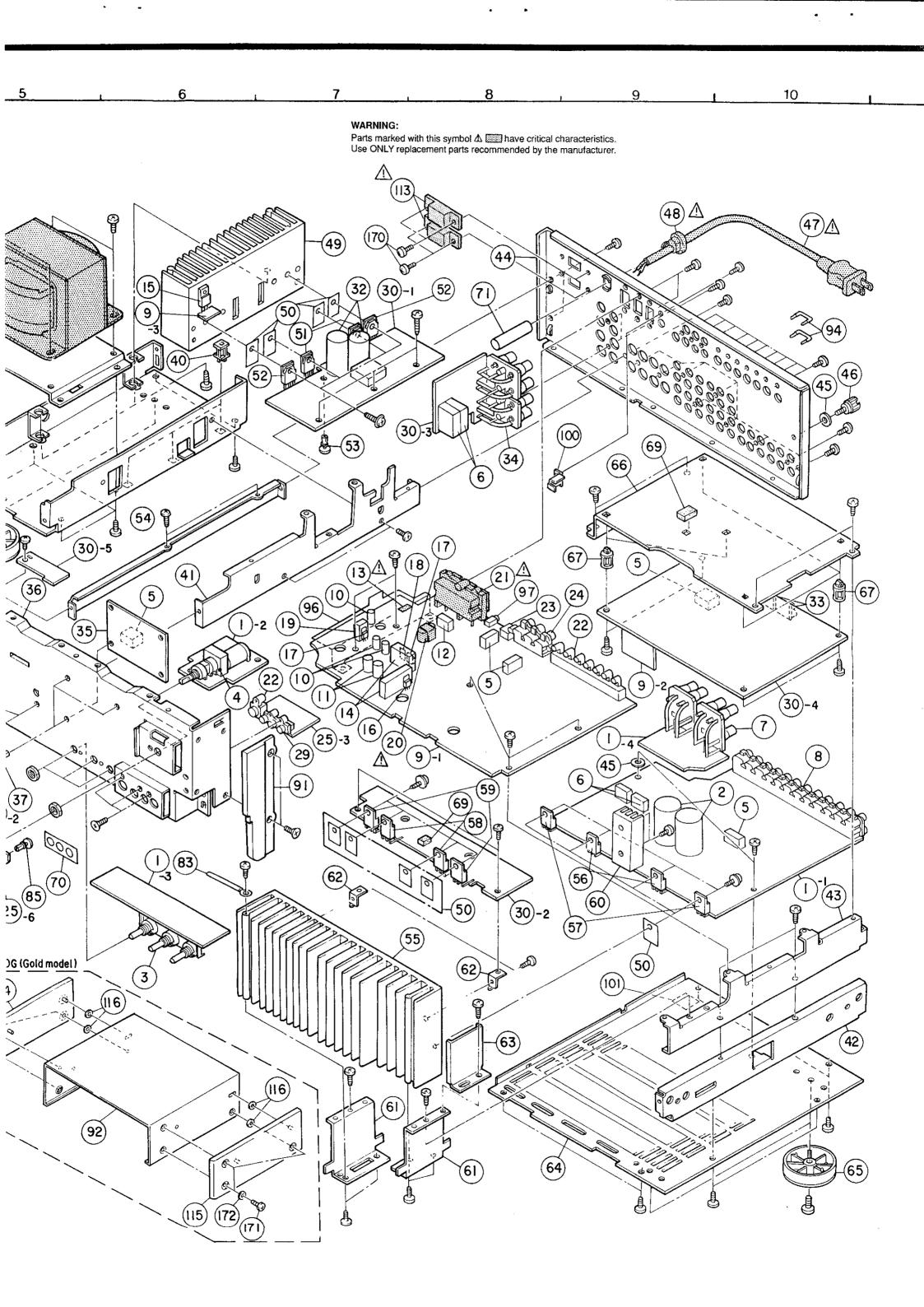
DO NOT return the unit to the customer until the problem is located and corrected.

ALL RESISTANCE VALUES IN OHM, k=1,000 OHM, M=1,000, ALL CAPACITANCE VALUES IN MICRO FARAD. P=MICRO-M EACH VOLTAGE AND CURRENT ARE MEASURED AT NO SH CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT





C-3050\5050\5050G I **EXPLODED VIEW OF CHASSIS AND CABINET** 3 <u>68</u> 9 В 92 C (90) **65** 54 30-5 (72) (36) (5) (35) 0 D 000 28 (In Ε 25³⁷ (81 (83) (78) (88) (25) (84) 75) (76) AVC -2020G (Gold model) 86 73 (116) G 92 (172) (115) 6



AVC-3020/2020/2020G

AVC-3020/2020/2020G

PARTS LIST OF EXPLODED VIEW

Ref. No.		Part No.	Part Name	Remarks	Q'ty
۹	1	Note	Front Amp Unit Ass'y		15
١	1-1	-	Front Amp Unit		(1)
L	1-2	-	Master Volume Unit	1	(1)
	1-3		Tone Unit	1	(1)
	∟1-4		Front Speaker Unit		(1)
	2	254 6161 003	Chemicon 10000µF/63V	CE68W1J103M(DL)	
	3 4	211 0687 007	Variable Resistor	3 Gang	1
	5	211 0686 008 214 0127 003	Variable Resistor 100KΩ	Master Vol.	1
	6	214 0127 003	Relay (RY-12W) Relay (DH2TU)	1	5
	7	Note	8P Speaker Terminal		1
	8	Note	6P Pin Jack(S-GND)		4
•	9	1U- 2194	Video Unit Ass'y		18
ı	r-9-1	-	Video Unit	1	(1)
L	9-2	-	VKK Unit		(1)
	L9-3		+6V Unit		(1)
	10	254 4256 091	Chemicon 2200µF/25V	CE04W1E222M	3
	11	254 4259 014	Chemicon 3300µF/35V	CE04W1V332M	2
	12	214 0120 000	Relay (TV-8)		1
Δ	E13		Fuse 6A Transfer	F905	35
	14 15	417 0388 001 263 0560 002	Radiator		2
	16	263 0561 001	NJM7815FA Regulator NJM7915FA Regulator	IC903 IC904	1
	17	262 1071 005	NJM7806FA Regulator	IC904 IC905,915	1 2
	18	263 0683 002	NJM7906FA Regulator	IC906	1
	19	417 9010 008	Radiator	10000	i
Ā	20 2	2.X Note		403 656 - 60	23834
â	721 £	203 3946 003	AC Outlet 14	Polarized	-1
	22	205 0605 000	S Terminal		8
	23	204 8379 005	1P Pin Jack		1
_	24	204 8377 007	6P Pin Jack (S-GND)	·	1
₽	25	1U- 2195	FL Unit Ass'y		18
ı	-25-1	_	FL Unit		(1)
	25-2	_	Tact Swtch Unit	İ	(1)
_	25-3 25-4		V.AUX Unit		(1)
	25-5	_	Power Switch Unit H/Phone Unit	Į	(1)
	25-6	_	LED Unit	1	(1) (1)
	26	393 4115 000	FLD (FIP16X1JA)	1	1
•	27	412 3156 002	FLD Bracket	1	1
	28	204 8341 004	Headphone Jack	İ	1
	29	204 8342 003	3P Pin Jack(C-GND)		1
9	30	Note	Rear Amp Unit Ass'y		15
1	- 30-1	-	Rear Amp Unit	1	(1)
	30-2	_	Center Amp Unit		(1)
٦	30-3	_	Center Rear Speaker Unit		(1)
1	30-4 -30-5	_	Surround Unit		(1)
•	31	_	Fuse Unit		(1)
	32	254 6162 002	Chemicon 10000µF/V	CE68W==103M(DL)	2
	33	204 8378 006	6P Pin Jack(S-GND)	OLOGHER ICHMIDE)	2
	34	Note	8P SP Terminal	1	- 1 l
9	35	1U- 2234	VDP Direct Unit Ass'y	1	18
9	36	411 1025 404	Front Chassis Ass'y	1	1
	. 37	412 2741 036	P.W.B. Holder (H=10)	1	3
9	38	411 1026 209	Trans Chassis Ass'y	İ	1
9	39	412 9160 102	Trans Bracket	1	1
	40	415 9032 006	P.C.B. Holder (T)	į	3
	41	411 1022 300 411 9057 500	Center Chassis Side Chassis	ĺ	11
•	43	411 9057 500 (Side Chassis	ì	1
9	44	412 3155 100 Note	Support Bracket		1
-	45	477 0018 001	Rear Panel Washer (P-87)	-	1
	46	205 0071 016	Terminal Ass'y		2
	-		ionima nos y		' 1
_					

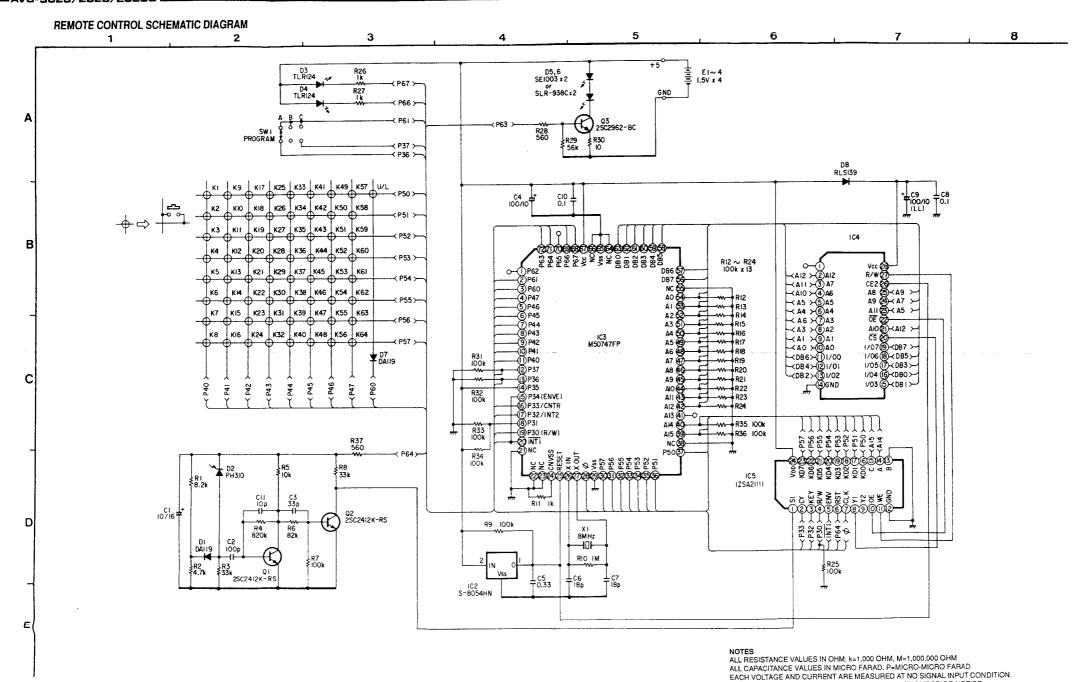
R	ef. No	1	Part Name	Remarks	Q't
A	E47.	Note and	AG Confedence 1 Property		2011
A.	246	12 No. 38	COLUMN TERMS		
	49	417 0415 204			1
	50 51	415 0234 007 271 0237 006	Insulating Sheet	1	12
	52	271 0237 006		1	2 2
	53	412 2814 015	Card Spacer (L=14)		1
⊚	54	412 3154 101	Side Bracket		1
•	55	417 0414 108	Power Radiator (A)		1
	56	271 0222 008	Transistor 2SA1492(O)/(P)/(Y)	ì	2
	57	273 0358 004	Transistor 29C3856(O)/(P)/(Y)		2
	58	271 0249 007	Transistor 2SA1490LB3	1	2
			(O/P/Y)(Z)	1	
	59	273 0400 004	Tamsistor 2SC3854LB3	1	2
	60	417 0419 103	(O/P/Y)(Z)		
⊚	61	417 0419 103	Mini Radiator Radiator Bracket (A)		1
•	62	412 3225 108	P.W.B. Bracket (A)		2 2
⊚	63	412 3271 000	Bracket		1
o	64	105 0930 103	Bottom Cover		1
	65	104 0194 001	Foot Ass'y		4
	66	411 1023 202	Shield Plate		1
Brow.	67	443 9015 002	P.W. Spacer		. 6
1	68		Power Dans Light 1997	CELL 13	
	69	461 0390 054	Rubber Sheet	1	3
	70 71	Note	Blind Sheet		1
	72				
9	73	Note	Front Panel Ass'y		1
9	74	Note	Inner Panel Ass'y		1
-	75	421 9007 007	Mini Dumper]	1
	76	435 0113 009	Latch (Y3Y18)	1 1	1
	77	Note	Knob (VDP)		1
	78	Note	Knob (Function)		1
	79	Note	Push Knob (P)		1
	80	Note	Function Sel. Knob	1 1	1 :
	81	122 0183 049	Spacer	1 1	1
ł	82 83	445 8004 007	Wire Clamper]	15
	84	445 0048 003 Note	Cord Holder (L=76) VR Knob Ass'y		1
	85	477 0096 007	Push Rivet	1	1
	86	Note Note	Vol. Knob(B)		1 3
	87	Note	Trap Door		1
	88	Note	Hinge (L)		1
	89	Note	Hinge (R)		1
	90	Note	Side Plate (L)		1
	91	Note	Side Plate (R)		1
)	92	Note	Top Cover		1
	93	461 0334 007	Rubber Sheet		2
	94 95	209 0103 009	Short Pin		2
	96	415 0595 005	Insulating Sheet		1
	97	204 8260 004	Mini Jack		1
V.	98	Note	Fuse 2.5A	F901, 902	2
	99	Note	Fuse	F301, 302	1
	100	Note	Safety Cover		- 1
	101	Note	Dangerous Mark		1
	CREV	vs.			
	- 1		T1-0 (0)		
	151	473 7007 000	Tapping Screw (S)4 x 8	Black	12
	152	473 7015 005	Tapping Screw (S)3 × 6	Black	2
	153	473 7015 018	Tapping Screw (S)3 x 8	Black	36
	154 155	473 7511 004 473 7002 018	F.Tapping Screw (P)3 × 10		4
	156	477 0064 107	Tapping Screw (S)3 x 8 Fixing Screw	1	9 22
		0007 107	I MING OUICE		22 I

158	Ref. No.	Part No.	Part Name	Remarks	G,t)
159	157	473 8007 009	Cup Screw 3 x 12		12
150					9
161 473 7501 027 Tapping Screw (P)3 x 16 162 477 0262 006 Special Screw 163 473 7020 201 Tapping Screw (S)3 x 8 Black 164 473 7500 044 Tapping Screw (P)3 x 8 Black 165 473 7514 001 Special Screw 166 Note 166 Note 3P Sweling Screw 170 Black 170 Note Tapping Screw (P)3 x 10 Black 170 Note 170 Screw (P)3 x 10 Black 170 Screw 170 Screw (P)3 x 10 Black 170 Screw 170 Screw (P)3 x 10 Black 170 Screw					10
162					7
163 473 7002 021 Tapping Screw (S)3 × 8 Black 165 473 7500 044 Tapping Screw (P)3 × 8 Black 166 Note 166 Note 3P Sweling Screw Tapping Screw (P)3 × 10 Black 170 Note Tapping Screw (P)3 × 10 Black 170 Note Tapping Screw (P)3 × 10 Black 170 Note Tapping Screw (P)3 × 10 Black 170 Note 170 Note Tapping Screw (P)3 × 10 Black 170 Note 170 N					1
164				Riade	3
165					2
166				Diction	1
PACKING & ACCESSORIES (not included EXPLODED VIEW)					6
201 GEN 1415 -2 Envelope Ass'y 201-1 505 8006 019 Envelope Inst. Manual 201-3 201-2 201-4 499 0189 008 Remote Control Unit 201-5 Control 201-6 Control C	170	Note		Black	4
201-1 505 8006 019 Envelope Inst. Manual 201-3 129 0129 004 201-4 499 0189 008 Remote Control Unit 201-5 201-6				ODED VIEW)	
201-2 511 2138 001 Inst. Manual Plate 201-3 129 0129 004 499 0189 008 Remote Control Unit DAI Warranty Home (4) 201-6					15
201-3 129 0129 004 Plate Remote Control Unit PC-134 201-5 Note DAI Warranty Home (4) Battery Plate PC-134 Plate PC-134 Plate PC-134 Plate PC-134 Plate PC-134 Plate PC-134 Plate PC-134 Plate Plate PC-134 PC-134 Plate PC-134 Plate PC-134 Plate PC-134 Plate PC-134 Plate PC-134 Plate PC-134 Plate PC-134 Plate PC-134					1
201-4 499 0189 008 Remote Control Unit RC-134 201-5 Note DAI Warranty Home (4) Battery RoyAAA 201-6 202 504 0092 060 Styrene Paper Set 204 505 9102 019 Poly Cover 503 0915 005 Custion Ass'y 207 Carton Case 207 Carton Case 208 Note Control Card Base 150 201 Control Card Base 150 201 Cardon Card Base 150 Cardon Card Base 150 Cardon Card					1
201-5				RC-134	1
201-6 Battery R03/AAA 2					1
9 202 504 0092 060 Styrene Paper for AC Cord 50 203 504 9102 029 Styrene Paper Set 50 204 505 9102 019 Poly Cover Cushion Ass'y Carton Case 70 207 Carton Case 70 Note Control Card Base 71 00 208 Note Control Card Base 71 00 207 10 10 10 10 10 10 10 10 10 10 10 10 10		_		R03/AAA	2
203 504 9102 029 Styrene Paper Set 10		504 0092 060			1
0 204					1
205 205 503 0915 005 Cushion Ass'y 10	204				1
207 — — — — — — — — — — — — — — — — — — —	205				1
208 Note Control Card Base		501 1494 037	Carton Case		1
		_			
209 513 1349 004 Thermal Carbon Film 1					1
	209	513 1349 004	Thermal Carbon Film		1
					İ
	Ì				
	j				
		1	· ·		
			1		

ADDENDUM LIST

Ref. No.	Parts Name & Descriptions	AVC-3020		AVC-	AVC-2020	
		(Black)		(Black)	(Gold)	
1	Front Panel Ass'y	1U-2193B		1U-2193	1U-2193	
7	8P Speaker Terminal	205 0632 002		205 0472 013	205 0472 013	
9	Video Unit Ass'y	1U- 2194 B		1U- 2194	1U-2194	
≙ 13	Fuse (F905)	206 1046 014		206 1061 060	206 1061 060	1.00
	1,000 (1,000)	(8A)	1 100	(8A/250V)	(8A/250V)	
<u></u> 20 .	Power Trans (Mini)	233 5818 004	The State of	233 5793 006	233 5793 006	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
30	Rear Amp Unit Ass'y	1U- 2196 B	1 4 80	1U- 2196	1U- 2196	i Nasti kab
34	8P SP Terminal	205 0632 002	i	205 0472 013	205 0472 013	1
44	Rear Panel			t .		
	AC Cord	105 0945 033	and the straight	105 0945 017	105 0945 020	y were a love to
<u>↑</u> 47	AL COR	206 2060 002		206 2083 005	206 2083 005	
∆ 48	Cord Bush	(Polarized)		1374		Harabara A
A 68	The second secon	445 0056 008		445 0071 009	445 0071 009	
41. 08	Power Trans	233 5897 009	a and a considerable of the constant of the co	233 5886 007	233 5886 007	CAS GARAGE
	Blind Sheet	146 9045 100		146 9045 100	146 1117 007	
73 74	Front Panel Ass'y	144 2088 029		144 2088 003	144 2088 016	1
	Inner Panel Ass'y	146 1223 124		146 1223 108	146 1223 111	
77 78	Knob (VDP)	113 1410 102		113 1410 102	113 1410 115	
78 79	Knob (Function)	113 1411 101		113 1411 101	113 1411 114	
	Push Knob (P)	113 1292 100		113 1292 100	113 1292 113]
80	Function Sel. Knob	113 1291 101		113 1291 101	113 1291 114	İ
84	VR Knob Ass'y	112 0569 103		112 0569 103	112 0569 132	
86	Vol. Knob (B)	112 0555 007		112 0555 007	112 0555 023	1
87	Trap Door	144 2005 002		144 2005 002	144 2005 044	1
88	Hinge (L)	401 0165 203		401 0165 203	401 0165 119	į.
89	Hinge (R)	401 0166 309		401 0166 309	401 0166 215	
90	Side Plate (L)	146 1204 101		146 1204 101 -	146 1204 114	†
91	Side Plate (R)	146 1205 100		146 1205 100	146 1205 113	
92	Top Cover	102 0439 100		102 0439 100	102 0439 113	- NO. 60 C. A. C. C. C. C. C. C. C. C. C. C. C. C. C.
§ 98	Fuse (F901,902)	206 1039 076(2.5	Y makes to a	P. T. Wash	ALTER OF	incide in the a
A 199 📲	Fuse (F301,302)	206 1046 043		- P 1		Same as gri
	A A Company of A A Company	(10A)		Landing	10 The 12 VI	
100	Safety Cover	412 3257 008	,		-	
101	Dangerous Mark	513 8266 009		_	_	
110	Fuse Label		1	513 1715 078(2)	513 1715 078(2)	
111	Fuse (F906)	_		206 1061 031	206 1061 031	
				(4A/250V)	(4A/250V)	
112	Preset Label	_		515 8030 008	515 8030 008	
113	Voltage Sel. Switch		200422	212 (020,006(2)	212,1020 006(2)	- Coldin
114	Wood Board (L)	_		- -	101 2149 039	
115	Wood Board (R)	_	ŀ	_	101 2143 035	
116	Felt Sheet				124 0032 015	
SCREWS						
166	3P. Swelling Screw	477 0060 00516		477.0000.000/::	T	1
170	-	477 0263 005(6)		477 0263 005(6)		
170	Tapping Screw(P) 3x10 Black	473 7508 017(4)		473 7508 017(8)	473 7508 017(8)	
	Tapping Screw(S) 4x20 Black	-		_	473 7007 039(6)	_
172 173	Washer ¢5	_		_	475 1006 016(6)	2
173				-		1
1/4						
PACKING	& ACCESSORIES (not include	led EXPLODED V	IEW)	• •]	
201-5	DAI Warranty Home (4)	515 0418 408		_		
206	Carton Case	501 1494 037		501 1494 066	501 1494 024	
	1	33. 1737 007		3011434 000	JU1 1454 UZ4	

NOTE FOR PARTS LIST
Part indicated with the mark *
● When ordering of part, clearly indicate "1" and "I" (i) to avoid mis-supplying.
Ordering part without stating its part number can not be supplied.
● Part indicated with the mark "★" is not illustrated in the exploded view.
WARNING:
Parts marked with this symbol 🐧 🥅 have critical characteristics.
Use ONLY replacement parts recommended by the manufacturer.



CIRCUIT AND PARTS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

EXPLODED VIEW 5 2 6 8 1 (13) (12) (10)

REMOTE CONTROL UNIT ASS'Y

Ref. No.	Part No.	Part Name	Remarks	5
SEMICON	DUCTORS			
IC2	9H3 1000 021	IC S-8054HN	VOL. Detector	
IC3	9H3 1000 091 IC TZSA21287 μ-com			
IC4	9H3 1000 067	IC TC5564APL15	RAM CMOS	
or		IC TC5564AFL15	RAM CMOS	
IC5		IC µPD65005G259	Gate Array	
or	9H3 1000 068	IC IZSA21111		
Q1,2	9H3 1000 069	Transistor 2SC2412R/S	Chip	
Q3	9H3 1000 070	Transistor 2SC2982B/C	Chip	
D1	9H3 1000 071	Diode DA119/118	Chip	
D2	9H3 1000 029	Diode PH310	Photo	
D3,4	9H3 1000 028	LED TLR124	Red	
D5,6	9H3 1000 072	LED SE1003C (Infrared-Ray)		
D7	9H3 1000 071	Diode DA119/118	Chip	
E.U. PAR	TS			Q'
X1	9H3 1000 073	X'tal 8MHz		
SW1	9H3 1000 074	Slide Switch		
CAPACIT	ORS	·	1	

Electrolytic 47µF/10V

Ceramic 100PF/50V

Ceramic 10PF/50V

Electrolytic 100µF/10V

Ceramic 0.33µF/25V

Ceramic 18PF/50V

Ceramic 0.1µF/25V

Ceramic 0.1µF/25V

Ceramic 10PF/50V

Chip 8.2KΩ, 1/16W

Chip 4.7KΩ, 1/16W

Chip 33KΩ, 1/16W

Chip 820KΩ, 1/16W

Chip 10KΩ, 1/16W

Chip 82KΩ, 1/16W

Chip 100KΩ, 1/16W

Chip 33KΩ, 1/16W

Chip 100KΩ, 1/16W

Chip 1MΩ, 1/16W

Chip 1KΩ, 1/16W

Chip 100KΩ, 1/16W

Chip 100KΩ, 1/16W

Chip 1KΩ, 1/16W

Chip 560Ω, 1/16W

Chip 56KΩ, 1/16W

Chip 10Ω, 1/16W

Chip 100KΩ, 1/16W

Electrolytic 100µF/10V

Chip

Chip

Chip

Chip

Chip Chip

RM73M-822J

RM73M--472J

RM73M--333J

RM73M-824J

RM73M~103J

RM73M--823J

RM73M~104J

RM73M-333J

RM73M-104J

RM73M--105J

RM73M-102J

RM73M-104J RM73M-104J

RM73M--102J

RM73M-561J

RM73M~563J

RM73M~100J

RM73M-104J

Ref. No.	Part No. Part Name Rem		Remark	(S
R33		Chip 100KΩ, 1/16W	RM73M-104	J
R34		Chip 100KΩ, 1/16W	RM73M104	J
R35,36		Chip 100KΩ, 1/16W	RM73M104	J
R37		Chip 560Ω, 1/16W	RM73M561J	
OTHER P	ARTS			Q'ty
	9H3 1000 092	P.W.Board		(1
J1-24	_	Jumper (Chip)		24
			1 1	

PARTS LIST OF EXLODED VIEW

ı	Ref. No.	Part No.	Part Name	Remarks	Q'ty
ı	1	9H3 1000 094	Case Top Ass'y		1
ı	2	_	_		
	3	9H3 1000 093	Switch Rubber		1
	4	9H3 1000 056	Case Bottom Ass'y		1
	5	9H3 1000 057	Cover Battery		1
١	6	9H3 1000 058	IR Filter		1
١	7	9H3 1000 060	Suitch Button		1
	8	9H3 1000 064	Terminal Battery		1
	9	9H3 1000 061	Spring Coil		2
	10	9H3 1000 062	Spring Coil		1
	11	9H3 1000 063	Spring Ciol		1
ı	12	_	Tapping Screw 2 × 6		1
	13	_	Tapping Screw 2 x 5		2 1 ^S
	14	_	P.W.Unit Ass'y		1 ^S
ı					
					1
١					
-					
-					
-					
-					
١					
- ((
Ì					
ļ					

KEY LAYOUT

Transmitting direction (upper side)						
K5	K6	К7	K8			
K13	K14	K15	K16			
K21	K22	K23	K24			
K29	K30	K31	K32			
K37	K38	K39	K40			
K45	K46	K47	K48			
K53	K54	K55	K56			
K61	K62	K63	K64			
K57	K58	K59	K60			
K49	K50	K51	K52			
K41	K42	K43	K44			
K33	K34	K35	K36			
K25	K26	K27	K28			
K17	K18	K19	K20			
K9	K10	K11	K12			
K1	K2	КЗ	K4			

KEYBOARD PORT MAP

Microcomputer Port	P50	P51	P52	P53	P54	P55	P56	P57
P40	K1	К2	КЗ	K4	K5	K6	K7	К8
P41	К9	K10	K11	K12	K13	K14	K15	K16
P42	K17	K18	K19	K20	K21	K22	K23	K24
P43	K25	K26	K27	K28	K29	K30	K31	K32
P44	K33	K34	K35	K36	K37	K38	K39	K40
P45	K41	K42	K43	K44	K45	K46	K47	K48
P46	K49	K50	K51	K52	K53	K54	K55	K56
P47	K57	K58	K59	K60	K61	K62	K63	K64
P60	USE/LEARN		1		1	1	1	

C2

СЗ

C4

C5

C6,7

C8

C9

C10

C11

R1

R2

R3

R4 R5

R6

R7

R8

R9

R10

R11 R12~24

R25

R29

R30

R31,32

R26,27

RESISTORS