SERVICE MANUAL

D-5: US Model D-50: AEP Model UK Model E Model

/1-5



SPECIFICATIONS

System Disc Laser Spindle speed Scan velocity Error correction

Number of channels D-A conversion Frequency response Harmonic distortion

Dynamic range Channel separation

Wow and flutter Outputs Compact disc Semiconductor laser (λ = 780 nm) 200 r.p.m. to 500 r.p.m.(CLV) 1.2-1.4 m/sec. Sony Super Strategy Cross Interleave Read Solomon Code 2

Compact disc digital audio system

16-bit linear 20-20,000 Hz $^{+1}_{-3}$ dB Less than 0.008 % (1 kHz) (Model D-5) Less than 0.0095 % (1 kHz) (Model D-50) More than 90 dB (1 kHz) More than 85 dB (1 kHz) (Model D-5) More than 82 dB (1 kHz) (Model D-5) Below measurable limit Line output (stereo minijack) Output level 1.6V rms (at MSB) Load impedance over 10 kilohms Headphones (stereo minijack)

Disc Track pitch Sampling frequency Quantization Modulation system Transfer rate

1.6μm 44.1 kHz 16 bit linear quantizing/channel EFM 2.03 Mbit/sec. (before modulation)

10 mW + 10 mW at 32 ohms

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST APE CRITICAL TO SAFE OPERATION. RI PLACE THESE COMPONENTS WITH SONY PARTS WI DSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.



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Power requirements

General

Power consumption Dimensions

Weight

DC 9V, six alkaline batteries, size C (IEC designation LR14) or six KR-C-F-2 nickel-cadmium rechargeable batteries used in optional Sony EBP-9LC battery case DC IN 9V jack accepts;

Sony ac power adaptor (supplied) for use on 120 V ac, 60 Hz or Sony DCC-120 car battery cord (optional) for use on 12 V car battery

4W

Approx. $127 \times 36.9 \times 132.5 \text{ mm (w/h/d)}$ (5×1¹/₂×5¹/₄ inches) not incl. projecting parts and controls Approx. $127.5 \times 42 \times 133 \text{ mm (w/h/d)}$ (5¹/₈×1³/₄×5¹/₄ inches) incl. projecting parts and controls Approx. 590 g (1 lb 5 oz), net

COMPACT DISC COMPACT PLAYER SONY®

AUD

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FEATURES

Extremely compact size for easy transport

By connecting the optional Sony EBP-9LC battery case, this CD jacket-sized player can be operated on batteries, which enables you to enjoy the sound of Compact Discs anywhere you want.

High performance and fidelity

Flat frequency response (20-20,000 Hz), low wow and flutter (lower than the measurable limit), wide dynamic range (more than 90 dB), minimal distortion (less than 0.008%) and high channel separation (more than 85 dB) are achieved. Listening to the sound reproduction is just like being in the concert hall.

Full-logic "feather touch" operation

At the lightest touch, the "feather-touch" function keys enable you to switch directly from one mode to another.

AMS and SEARCH function

The AMS (Automatic Music Sensor) function for locating the beginning of a selection on the disc and the SEARCH function for locating the desired point in a particular selection.

Digital readout display

The track number and the playing time elapsed of the selection playing is shown on the LCD(Liquid Crystal Display) window. With one touch of the REMAIN button, this time display will change to indicate with a minus sign how many selections and how much playing time are left on the disc.

Non-contact signal readout system

Because a laser beam is employed for signal pick-up, there is no physical contact with the disc, which means no wear.

In addition, because the pit pattern is recorded below the surface of the disc, it is not necessary to be constantly on guard against dust, making the disc easy to handle.

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D-51/1020580

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs a laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING !! DO NOT LOOK AT THE LASER BEAM.

1. Laser Diode Properties

- Materiale: GaAlAs
- Wavelength: 780 nm
- Emission Duration: continuous
- Laser Output: max. 0.4 mW*
 - * This output is the value measured at a distance of about 1.6 mm from the objective lens surface on the Optical Pick-up Block.
- Classification: Class IIIb
- 2. During service, do not take the Optical Pick-up Block apart, and do not adjust the APC circuit in the Optical Pick-up Block. If there is a breakdown in the APC circuit (including laser diode) in the Optical Pick-up Block, replace the entire Optical Pick-up Block (including APC board).

BESKYTTELSE AF ØJNE MOD LASERSTRÅLING UNDER SERVICE

I dette apparat anvendes laserlys. Derfor skal nedenstående instruktioner nøje følges under service.

ADVARSEL!! Se ikke direkte på laserstrålen. 1. Laser-diode data

- Materiale: GaAlAs
- Bolgelængde: 780 nm
- Udsendelsesvarighed: Kontinuerlig
- Laseroutput: Max. 0,4 mW*
 - * Dette output er værdien målt i en afstand af ca. 1,6 mm fra den optiske pick-up enheds linseoverflade.
- Klassifikation: Klasse IIIb.
- Adskil aldrig den optiske pick-up enhed under service, og juster ikke APC kredsløbet i den optiske pick-up enhed (Automatic Power Control). Hvis APC kredsløbet i den optiske pick-up enhed (inkl. laser-dioden) bryder ned, skal hele den optiske pick-up enhed udskiftes.

- CAUTION FOR ELECTROSTATIC BREAKDOWN -

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK (KSS-110A)

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

The printed matter below is included in the repair parts. During repair, use the procedure in the printed matter.

The flexible board is easily damaged and should be handled with care.

The following method is an example for reference purposes:

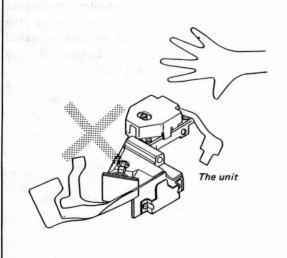
Printed Matter Included in the Repair Parts

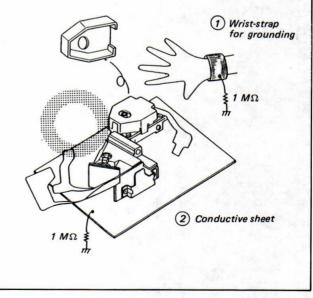
1. Place a conductive sheet on the workbench. (The black sheet used as repair parts wrapping).

- 2. Place the set on the conductive sheet so that the chassis touches the sheet. (This makes it the same potential as the conductive sheet).
- 3. Place your hands on the conductive sheet. (This makes them the same potential as the sheet).
- 4. Remove the optical pick-up block.
- 5. Perform work on top of the conductive sheet. Be careful that clothing does not touch the optical pick-up block.

When opening or repairing the unit, the procedure for grounding as follows is required to prevent damage caused by static electricity.

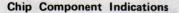
- Grounding for the human body Be sure to put on a wrist-strap for grounding (with impedance lower than 10⁸ Ω) whose other end is grounded. The strap works to drain away the static electricity build-up on the human body.
- 2. Grounding for the work table Be sure to lay on the table a conductive sheet (with impedance lower than $10^9 \Omega$) such as sheet of copper, which is grounded.
- 3. As static electricity build-up on clothes is not drainded away, be careful not to let your clothes touch the unit.
- Handling the flexible board The flexible board is easily damaged and should be handled with care.





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The official specifications which are presently indicated are EIAJ standard.

- (1) MELF (leadless): EIAJ RC-8001
- (2) Square chip components (laminated ceramic): EIAJ RC-3699. Square chip resistors are presently under study by EIAJ.

The following explanation covers square chip components (MELF omitted).

- 1. 2-letter Method (EIAJ RC-3699)
 - Letter combination: letter + 1 number
 - Letter meaning: letter = effective numeric number = multiplier
- * The units used are pF for capacitors and Ω (ohm) for resistor.

(This is mainly used for Symbol and Numeric and Multiplier capacitors.)

Letter	A	В	С	D	E	F	G.	н	J	ĸ	L
Numeric	1	1.1	1.2	1.3	1.5	1.6	1.8	2	2.2	2.4	2.7
Letter	м	N	Р	٥	R	s	Т	U	V	w	x
Numeric	3	3.3	3.6	3.9	4.3	4.7	5.1	5.6	6.2	6.8	7.5
Letter	Y	z	a	b	d	е	f	m	n	t	y
Numeric	8.2	9.1	2.5	3.5	4	4.5	5	6	7	8	9

Number	0	1	2	3	4	5	6	7	8	9
Maltiplier	10 ⁰	10 ¹	10 ²	10 ³	10 ⁴	10 ⁵	10 ⁶	107	10 ⁸	10-1

• Ex.: A1 1 x 10^1 = 10 pF (or, 10 Ω) E3 1.5 x 10^3 = 1500 pF (or, 1.5 k Ω)

2. 3-number Method

(Mainly used for chip resistors)

- Number meaning:
 - 1st and 2nd number = effective numeric 3rd number = multiplier of 10

Unit: pF for capacitor, for resistor

• Ex.: 103 10 x 10^3 = $10000\Omega = 10 k\Omega$ (or, 0.01μ F) 224 22 x 10^4 = $220000\Omega = 220 k\Omega$ (or, 0.22μ F)

- 3. 4-letter Method (used for capacitor)
 - Letter combination: 3 numbers + 1 letter
 - Letter meaning: number = effective numeric +

multiplier of 10 (same as 3-number method)

D-51/10/2030

letter = capacitor response

Symbol and Response

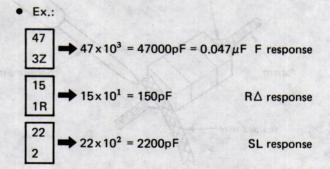
(For temperature compensation)

Symbol	С	Ρ	R	S	Т	U	(NO)
Response	C∆	PΔ	R∆	SΔ	ТΔ	UΔ	SL

 Δ is temperature coefficient tolerance, and is G, H, J, K.

(For high dielectric constant)

Symbol	к	z
Response	В	F



The she tweeters will us solden you diritale applied to both electrodes and the chip component will be decompared. Take cateful projections will uisteen ecting because if the ship component is for tight removed the land may peel off.

Dws.f/esergi@manuals.info

Replacing chip components

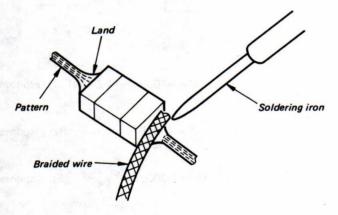
All chip components should be connected and disconnected, using a tapered soldering iron [temperature of the iron tip: less than 280°C (536°F)], a pair of tweezers and braided wire.

Precautions for replacement

- 1. Do not disconnect the chip component forcefully. Otherwise, the pattern may peel off.
- 2. Never re-use a disconnected chip component. Dispose of all old chip components.
- 3. To protect the chip component, heating time for attaching the component should be within 3 seconds.

• Removing chip components

- (1) Removing solder at electrode
 - Remove the solder at the electrode, using a thin braided wire. Do not remove the solder of the part (chip component) attached adjacent to the electrode.



(3) Smoothing the soldered surface

After disconnecting the chip component, remove the solder by using a braided wire to smooth the land surface.

• Connecting chip components

The value of chip components is not displayed on the main body. Take due precautions to avoid mixing new chip components with other ones.

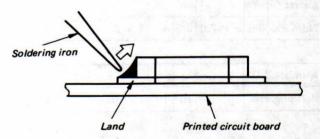
(1) Applying solder to land on one side

Apply a thin layer of solder to the land on one side where the chip component is to be connected. Too much solder may cause bridging.



(2) Speedy soldering

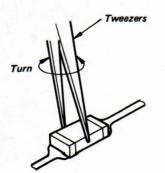
Hold the chip component at the desired position, using tweezers, and apply the soldering iron in the arrow-marked direction. To protect the chip component, heating time should be within 3 seconds.



(3) Speedy soldering of electrode on the other side Solder the electrode on the other side in the same way as in (2) above.

(2) Disconnecting chip components

Turn the tweezers with the soldering iron alternately applied to both electrodes, and the chip component will be disconnected. Take careful precautions while disconnecting, because if the chip component is forcefully removed the land may peel off. Never re-use a disconnected chip component.



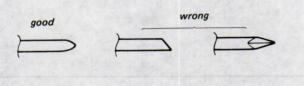


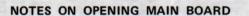
Flexible Circuit Board Repairing

To make thermal controller of soldering iron

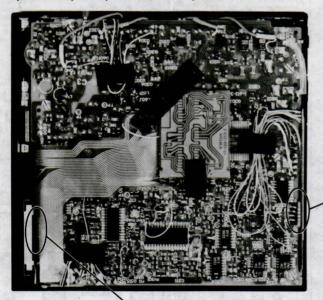
- Keep the temperature of the soldering iron at 270° ± 10°C during repairing. You can maintain the temperature of the soldering iron around 270°C by using the thermal controller as illustrated on the right.
- 2. Do not touch the soldering iron more than 4 seconds or 3 times on the same conductor of the circuit board.
- 3. Do not apply force on the conductor when soldering or unsoldering.

Tip of soldering iron

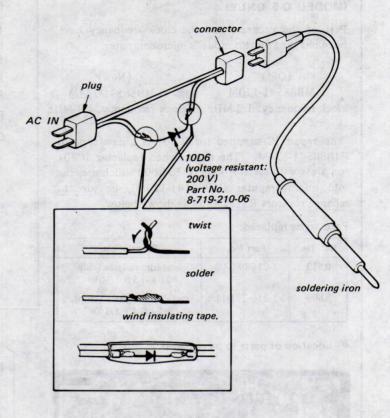




Be careful not to cut the FOP flexible boards when opening the main board during repair. If they break, FOP should be replaced.



Be careful not to break the flexible board under this shield board. (connected to FOP signal and laser)



Be careful not to break the flexible board which is attached to the end of this board. (connected to FOP 2-axis device)



NOTES ON REPLACING IC801 (MB88541-120M) (MODEL D-5 ONLY)

Part of the program and the clock frequency have been changed on this model's microcomputer.

 (Old)
 (New)

 MB88541-120M
 ➡
 MB88541-124M

 clock frequency: 1.2 MHz
 clock frequency: 1.3 MHz

The repair IC supplied for IC801 is a new type of MB88541-124M. Therefore, when replacing IC801 on a set with serial No. up to 104,000 which uses the old microcomputer (MB88541-120M), be sure to change resistors R513, R809 as shown below.

Parts to be replaced:

Ref. No.	Part No.	Description
R513	1-216-080-00	metal film resistor (chip), 20 kΩ 5% 1/10W
R809	1-216-331-11	metal film resistor (chip), 9.1 kΩ 1% 1/10W

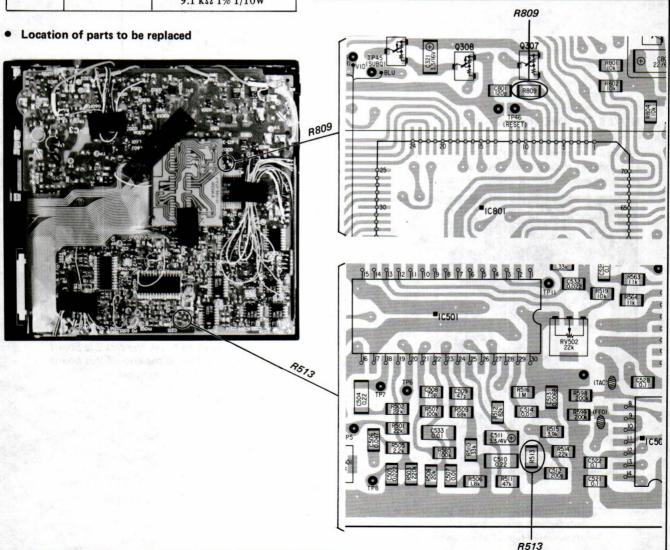
CAUTION ON DC-DC CONVERTER REPLACEMENT

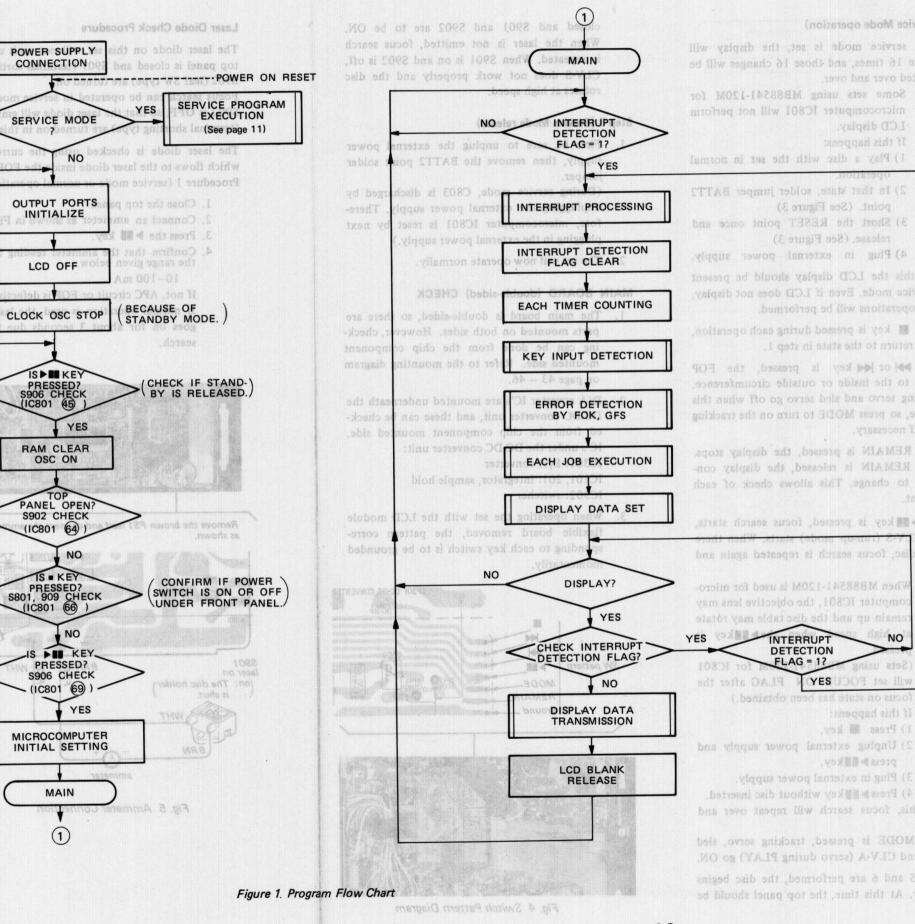
Be sure to check PLL free run frequency when replacing the DC-DC converter. (Refer to page 36) DC-DC converter -5V output voltage changes when the DC-DC converter is replaced, causing PLL free run frequency to change.

Reference:

Converter Output Voltage Variation

Conditions	Specifications
mechanical voltage	+5 V output: DC +5.2 V ± 50 mV
DC +5 – 12 V	-5 V output: DC-5.2 V ± 50 mV





SERVICE MODE (service program)

As shown in Figure 1, the program on this set selects either service program routine or normal routine after power supply is connected and a RESET signal enters. When it enters service program routine, the microcomputer brings the necessary job from each subroutine corresponding to the key input, and executes that job. Operation check can be performed efficiently using this mode. The operation method of service mode is explained below.

4. Press the bulling key.

2 .

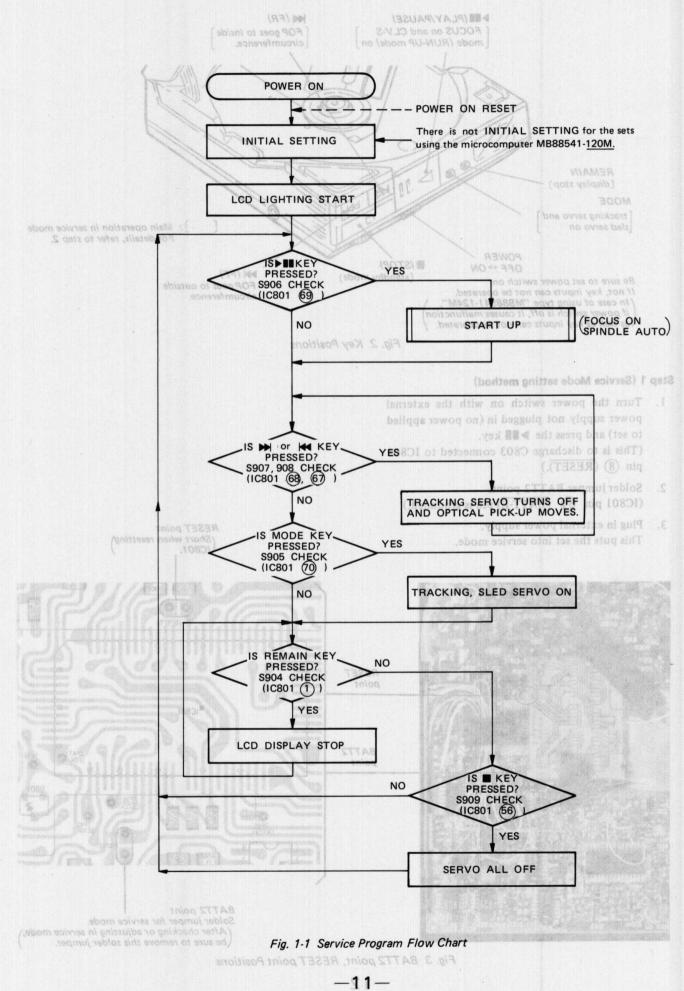
NO

YES

VES

value on label c¹¹mA (25°C)



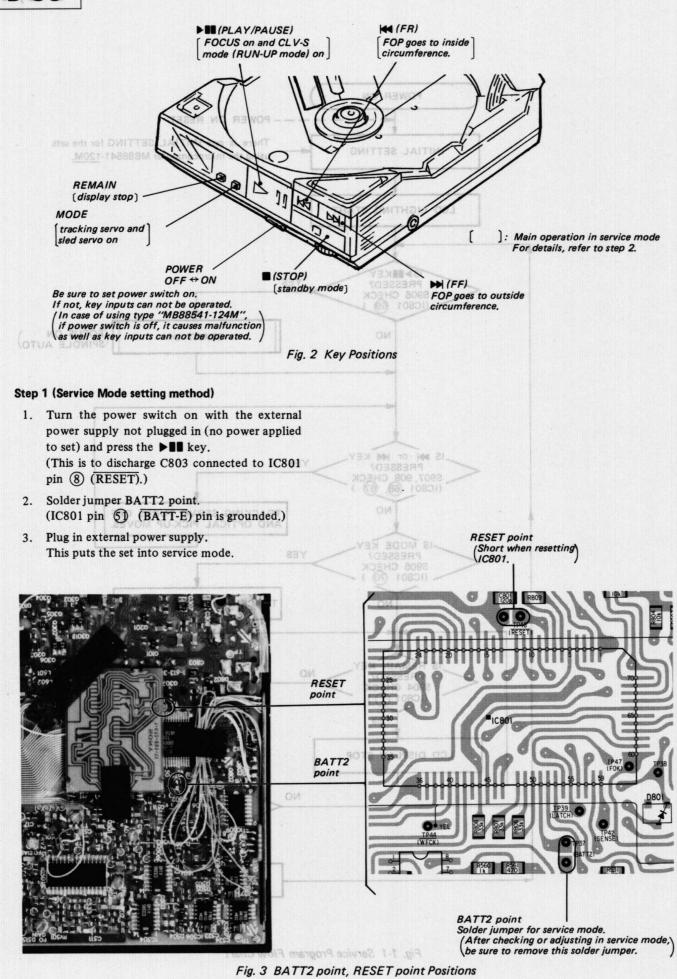


Step 2 (Service Mode operation)

- When service mode is set, the display will
- 2) In that state, solder jumper BATT2 3) Short the RESET point once and
 - er operations will be performed.
- en 🖩 key is pressed during each operation.
- en M or a key is pressed, the FOP cking servo and sled servo go off when this one, so press MODE to turn on the tracking
- en REMAIN is pressed, the display stops. a REMAIN is released, the display conues to change. This allows check of each
- en b mikey is pressed, focus search starts. c, focus search is repeated again and

 - NO INTERRUPT DETECTION FLAG = 1?YES DOT too II w
 - 1) Press I key
 - press 卧 图题kev.
- 4) Press 师 普遍key without disc inserted. With this, focus search will repeat over and
- servo and CLV-A (servo during PLAY) go ON.





Step 2 (Service Mode operation)

- 1. When service mode is set, the display will change 16 times, and those 16 changes will be repeated over and over.
 - Note: Some sets using MB88541-120M for microcomputer IC801 will not perform LCD display.

If this happens: 1) Play a disc with the set in normal

operation.

- 2) In that state, solder jumper BATT2 point. (See Figure 3)
- 3) Short the RESET point once and release. (See Figure 3)

4) Plug in external power supply.

With this the LCD display should be present in service mode. Even if LCD does not display, other operations will be performed.

- 2. When key is pressed during each operation, it will return to the state in step 1.
- 3. When bo or key is pressed, the FOP moves to the inside or outside circumference. Tracking servo and sled servo go off when this is done, so press MODE to turn on the tracking servo if necessary.
- 4. When REMAIN is pressed, the display stops. When REMAIN is released, the display continues to change. This allows check of each segment.
- 5. When key is pressed, focus search starts, then CLV-S (run-up mode) starts. When there is no disc, focus search is repeated again and again.
 - Note: When MB88541-120M is used for microcomputer IC801, the objective lens may remain up and the disc table may rotate at high speed when the likey is pressed.

(Sets using MB88541-120M for IC801 will set FOCUS ON FLAG after the focus on state has been obtained.) If this happens:

- 1) Press 📕 key.
- 2) Unplug external power supply and press key.
- 3) Plug in external power supply.
- 4) Press ▶ key without disc inserted.

With this, focus search will repeat over and over

- 6. When MODE is pressed, tracking servo, sled servo and CLV-A (servo during PLAY) go ON.
- 7. When 5 and 6 are performed, the disc begins to play. At this time, the top panel should be

iumper

SW patter

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D-5/D-50 D-5/D-50

closed and \$901 and \$902 are to be ON. When the laser is not emitted, focus search is repeated. When S901 is on and S902 is off, CLV-S does not work properly and the disc rotates at high speed.

Step 3 (Service Mode release)

1. First be sure to unplug the external power supply, then remove the BATT2 point solder

(During service mode, C803 is discharged by unplugging the external power supply. Therefore, microcomputer IC801 is reset by next plugging in the external power supply.)

2. The set will now operate normally.

MAIN BOARD (double-sided) CHECK

1. The main board is double-sided, so there are parts mounted on both sides. However, checking can be done from the chip component mounted side. Refer to the mounting diagram on page 43 - 46.

2. D/A coverter IC's are mounted underneath the DC-DC converter unit, and these can be checked from the chip component mounted side. IC's under the DC-DC converter unit:

IC301: D/A converter

IC101, 201: integrator, sample hold

IC302: switcher

When operating the set with the LCD module flexible board removed, the pattern corresponding to each key switch is to be grounded momentarily.

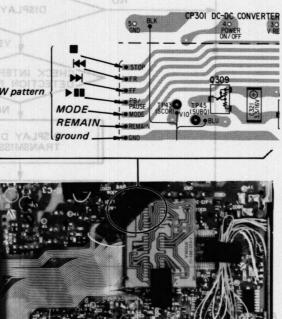


Fig. 4 Switch Pattern Diagram

Laser Diode Check Procedure

The laser diode on this set will not emit unless the top panel is closed and S901 (terminal sorting type), S902 (leaf SW type) are turned on.

Focus search can be operated in service mode even if S902 is OFF, so that the laser diode will emit if S901 (terminal shorting type) are turned on in this mode.

The laser diode is checked using the current value which flows to the laser diode inside the FOP. Procedure 1 (service mode or normal operation).

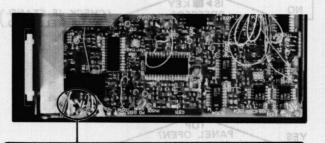
- 1. Close the top panel.
- 2. Connect an ammeter as shown in Figure 5.
- 3. Press the ▶ key.

4. Confirm that the ammeter reading is within the range given below.

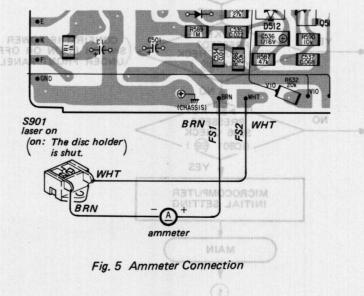
10-100 mA

If not, APC circuit or FOP is defective. If normal operation is used, the laser diode

goes on for about 3 seconds due to focus search



Remove the brown FS1 lead and connect the ammeter

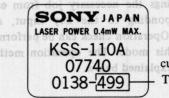


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Procedure 2 (service mode or normal operation).

1. Close the top panel.

2. Remove the main board and read the current value on the label affixed to the FOP. (Label on FOP)



current value This means 49.9 mA

The current value varies with the set.

- 3 Mount the main board and connect an ammeter as shown in Figure 5.
- 4. Press the ▶∎∎key.

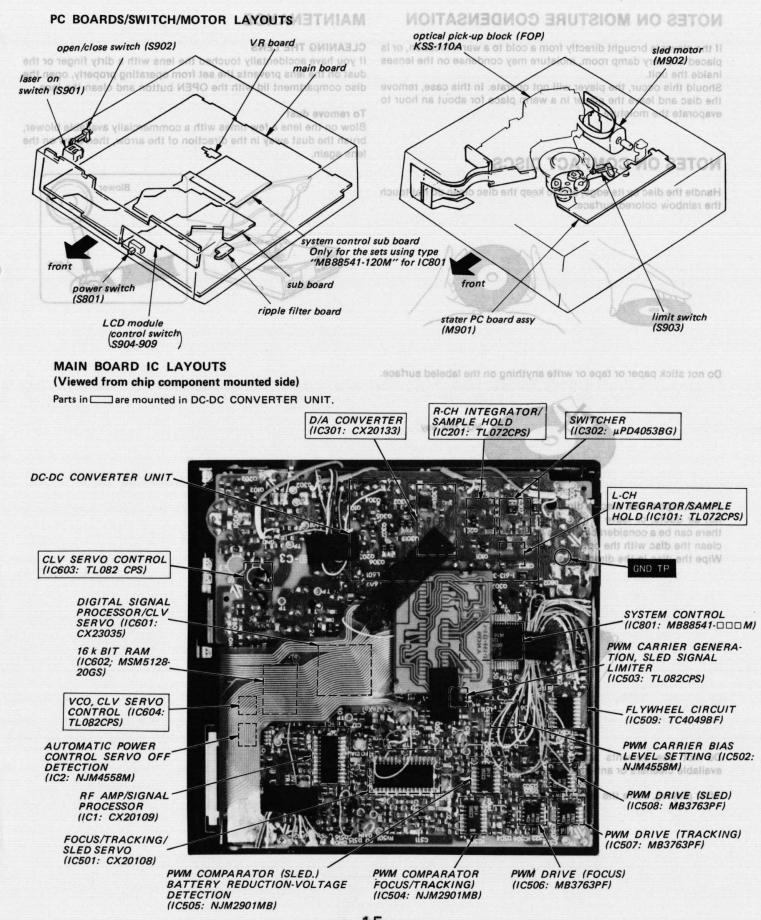
5. Confirm that the ammeter reading is within the range given below.

> value on label $^{+11}_{5}$ mA (25°C) variation relative to temperature:

 $0.4 \text{ mA/}^{\circ}\text{C}$

(Current increases when temperature rises and decreases when it drops.)

If the value is more than the range given, APC circuit has been defective or the laser diode has deteriorated. If it is less, APC circuit or FOP is defective.



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NOTES ON MOISTURE CONDENSATION

If the player is brought directly from a cold to a warm location, or is placed in a very damp room, moisture may condense on the lenses inside the unit.

Should this occur, the player will not operate. In this case, remove the disc and leave the player in a warm place for about an hour to evaporate the moisture.

NOTES ON COMPACT DISCS

Handle the disc by its edge, and to keep the disc clean do not touch the rainbow colored surface.



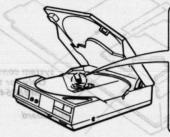
MAINTENANCEJ ROTOM\HOTIW2\20RAO8 29

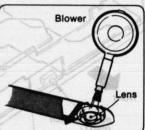
CLEANING THE LENS

If you have accidentally touched the lens with a dirty finger or the dust on the lens prevents the set from operating properly, open the disc compartment lid with the OPEN button and clean the lens.

To remove dust

Blow on the lens a few times with a commercially available blower, brush the dust away in the direction of the arrow, then blow on the lens again.





DC-DC CONVERTER UNIT

DIGITAL SIGNAL

16 k BIT RAM (10802: MSM6128-

CONTROL SERVO OFF DETECTION

PROCESSOR

open/close switch (\$902)

ipple filter board

CD module control switch (5904-909

MAIN BOARD IC LAYOUTS

(Viewed from chip component mounted side) Parts in [___] are mounted in DC-DC CONVERTER UNIT

Do not stick paper or tape or write anything on the labeled surface.



Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight where there can be a considerable rise in the temperature. Before playing, clean the disc with the optional cleaning cloth. Wipe the disc in the direction of the arrows.

AM CARRIER GENERA JON, SLED SIGNAL IMITER IICS03: TL082CPS)

PWM DRIVE (TRACKING)

SYSTEM CONTROL

Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for analog discs.

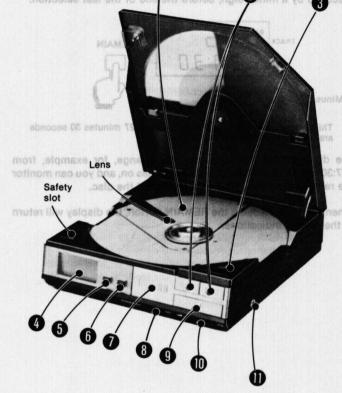
After playing, store the disc in its case.

PWM DRIVE (FOCUS) (IC506: M83763PF)

PWM COMPARATOR FOCUS/TRACKING) (ICS04: NJM2901MB) PWM COMPARATOR (SLED.) BATTERY REDUCTION-VOLTAGE DETECTION (ICS05: NJM2901MB)

LOCATION AND FUNCTION OF CONTROLS

TO MONITOR THE REMAINING PLAYING TIME sad, the counter shows the When the REMAIN button is being prete remaining time, each d of the last selection. im a wd



FRONT

O Disc compartment

Place a compact disc here. To open the lid, press the OPEN button 3.

@ AMS (Automatic Music Sensor) keys

While the AMS indicator () is being displayed, press the or key to locate the beginning of the desired selection. While the SEARCH indicator () is being displayed, keep the I or I key pressed to go back or advance to the desired point in a particular selection. During pause, you can go back or advance faster than during playback (See page 19).

OPEN button

Press to open the disc compartment lid.

O Display window

See @-@ on pages 17 and 18.

G REMAIN button

While this button is being pressed, the TRACK indicator (will show the remaining number of selections on the disc and the TIME counter
will show the time remaining before the end of the last selection.

When you stop pressing the button, the display will return to the normal indications. (See page 20).

USING THE TIME COUNTER

"-00:01", etc.

GMODE button

Press to select either AMS function or SEARCH function. When play starts, the AMS indicator will appear on the dispaly window, indicating that the AMS function can be activated by pressing the even or be key. To select the SEARCH function, press this button. The SEARCH indicator will appear. Press the button again to return to the AMS function. reset to the time preceded by the minus sign

● ■ II (play/pause) key

When the POWER switch () is set to ON, press this key once. The indications on the display window wil appear and play will start. Press again to stop the play for a moment. The TIME counter will flicker. To release the pause mode, press this key again. The TIME counter will return to the normal time indication and disc playing restarts

O POWER switch

Set to ON to turn the power on. The player will stand by and disc playing will start simply by pressing the > II key.

Set to OFF after use and when transporting the unit so that the player will not operate even if any of the operation keys or buttons is pressed.

9 (stop) key

Press to stop the disc playing. The indications on the display window will disappear after a few seconds and disc will stop rotating.

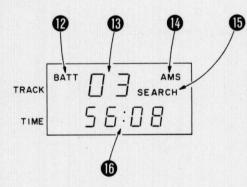
O VOL (headphones volume) control

Turn to adjust the volume at the headphones connected to the Ω jack . Before playing the disc turn down the volume completely. Turn to the right for more volume as you listen. Turn to the left for less volume.

● ∩ (headphones) jack (stereo minijack)

Connect an optional pair of headphones for private listening.

Display window



BATT (battery) indicator

This indicator appears when disc playing starts. During battery operation, this indicator shows the battery condition. When the batteries are weak, the indicator flickers.

TRACK indicator

This indicator shows the track number of the selection being played.

While the REMAIN button is being pressed, the indicator shows the remaining number of selections on the disc.

Keep the level key pressed until the desired services and the This indicator appears when disc playing starts. While this indicator is being displayed, you can locate the beginning of the desired selection by pressing either the et or be key.

B SEARCH indicator

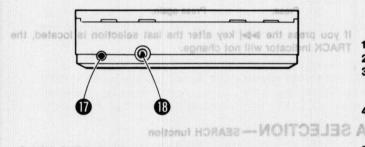
To search for a selection shead This indicator appears when the MODE button is pressed once during the playback or the pause mode. While this indicator is being displayed, if you press either | d or bb key, you can go back or advance to the desired point on the disc. antinoo al yes ant name

G TIME counter

The counter shows the location in a particular selection by means of actual elapsed time. The first two digits of the counter show playing time of the selection in minutes, and the last two digits show the seconds.

While the REMAIN button is being pressed, the counter shows the time remaining before the end of the last selection on the disc. During pause, the time indication flickers.

REAR PANEL



LINE OUT jack (stereo minijack)

This jack can be connected to the line input jacks of an amplifier recording. key at the end of

DC IN 9V (external power input) jack

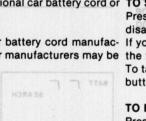
Connect the supplied ac power adaptor, optional car battery cord or TO STOP DURING PLAY battery case. To return to a TRA

Note: Use only an ac power adaptor or car battery cord manufac- If you then press the > II key, play will start from the beginning of tured by Sony. Polarity of the plugs of other manufacturers may be the first selection. different.

re beginning of the disc, K indicator will change " mark will flicker.) Polarity of Sony plug e a TRACK indication press the tet. key.

ark also appears when the set is subject to strong

vibration (it is not a problem). When this happens, make sure that the AMS indicator is displayed and press the besi key so that the display will return to normal indications.



	TO P
	Pres
	not s
	To re
	the 🗈
and the second	



Display window

when listening through a speaker system or of a tape recorder for When the player reaches the end of the last selection of the disc. the indications on the display window will disappear after a few seconds and the disc wil stop rotating.

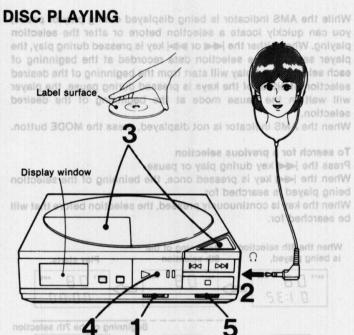
Press to go back Press to go ahead at a high speed notified

AUSE DURING PLAY stop rotating). II key again.

1 Make sure that the POWER switch is set to ON. 2 Connect an optional pair of headphones to the Ω jack. 3 Press the OPEN button to open the disc compartment lid. Holding the disc by the rim, place it with the label side up on the compartment, then close the lid.

4 Press the ► II key. The indications on the display window will appear and play will begin from the beginning of the first

selection.



5 Turn the VOL control to adjust the headphones volume.

Press the **m** key. The indications on the display window will disappear after a few seconds and the disc will stop rotating.

When either leve or besi key is cont

To take out the disc, open the disc compartment lid with the OPEN

ss the ► II key again. The TIME counter will flicker (The disc will

elease pause mode and restart play from the same point, press

If either late or book key is pressed when the set is in the pause mode, you can go back or shead at a higher speed than during play-

@ SEARCH indicator

TO SEARCH FOR A PARTICULAR SELECTION — AMS (Automatic Music Sensor) function

While the AMS indicator is being displayed during play or pause. you can quickly locate a selection before or after the selection playing. When either the et al or et al key is pressed during play, the player searches the selection data recorded at the beginning of each selection and play will start from the beginning of the desired selection. If either of the keys is pressed during pause, the player will wait in the pause mode at the beginning of the desired selection.

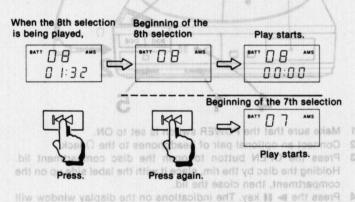
When the AMS indicator is not displayed, press the MODE button.

To search for a previous selection

Press the key during play or pause.

When the | d key is pressed once, the beinning of the selection being played is searched for.

When the key is continuously pressed, the selection before that will be searched for.



TO SEARCH FOR A PARTICULAR POINT IN A SELECTION - SEARCH function

During play or pause, press the MODE button so that the AMS indicator on the display window will disappear and the SEARCH indicator will appear instead.

While the SEARCH indicator is being displayed, you can locate a particular point in a selection.

When either I or I key is continuously pressed, the disc playing goes forward or in reverse. Release the button at the desired point found by observing the TIME counter or by monitoring the high-speed sound during play. Note: Use only year be and search or or car battery cord manufac- if you then press the B- II key,

he OPEN	partment lid with th	the first selection. To take out the disc, open the disc com
	Press to go back	Press to go ahead at a high speed offul
		TO PAUSE DURING PLAY

Inuco BMII Press the Im the vacain I flicker (The disc will KK **D** the B* III key again.

If either | d or >>> key is pressed when the set is in the pause mode, you can go back or ahead at a higher speed than during playback.

Keep the key pressed until the desired selection number is displayed. If you press the left key after the first selection is located, the TRACK indicator will not change. a priseero vo noitoelea berizeb

To search for a selection ahead

Press the PP key during play or pause. When the be key is pressed once, the selection after the one being played is searched for. When the key is continuously pressed, the selection after that will be searched for. natouno SMIT (B)

the selection and	9th selection	10th selection
0 I:32		how the seconds.
the counter shows the selection on the disc		
[PAI		buring pause, the time
75	75	REAR PAMEL
	5	Janki Nagr
Press.	Press again.	
If you press the	key after the last se	ection is located th

press the press the last TRACK indicator will not change.

If you continuously press the key at the end of the disc, the SEARCH TRACK indicator will change to "-___" (end mark). (During pause, the ":" mark will flicker.) To return to a TRACK indication,

tured by Sony. Polarity of the plugs of other manufacturers may be If you continuously press the BATT F F key at the beginning of the disc, SEARCH

What are these indications?

BATT

the TRACK indicator will change to "[[" (start mark). (During pause, the ":" mark will flicker.) To return to a TRACK indication, press the De key.

D LINE OUT lack (stereo minilack)

This lack can be connected to the

The "[[" mark also appears when the set is subject to strong vibration (it is not a problem). When this happens, make sure that the AMS indicator is displayed and press the Del key so that the display will return to normal indications.

USING THE TIME COUNTER

TO MONITOR THE ELAPSED PLAYING TIME Generally, the TIME counter shows the elapsed playing time from the beginning of the selection in minutes and seconds. When a new selection starts, the counter is reset to "00:00" and then starts counting time again.

If the selection has a blank space at its beginning, the counter is reset to the time preceded by the minus sign such as "-00:02",

"-00:01", etc. (a) >> 11 (play/pause) key When the POWER switch @ is set to ON, press this key once. The thate live valo bos as TRACK (selection) number and no enotication! Press again to stop the play for a moment. The TIME counter will **BMIT ent.** nia flicker. To release the pause m - Thi anAMS DOIVER TRACK : Ľ POWER switch

Set to ON to turn the power on Minutes Seconds olaying will start simply by This indication shows that 1 minute 27 seconds Set to OFF after orit.

have elapsed from the beginning of the third selection.

O III (stop) key

Press to stop the disc playing. The indications on the display window will disappear after a few seconds and disc will stop

@ VOL (headshones volume) JOV @

Turn to adjust the volume at the headphones connected to the D jack @. Before playing the disc turn down the volume completely. Furn to the right for more volume as you listen. Furn to the left for

(b) (headphones) lack (stereo minilack).

Connect an optional pair of headphones for private listening.

Wobriw valori0

HALL T

(1) BATT (battery) Indicator

This indicator appears when disc playing starts. During battery operation, this indicator shows the battery condition. When the batteries are weak, the indicator flickers.

counter @ will show the time remaining before the end of the last. This indicator shows the track number of the selection being

When you stop pressing the button, the display will return to the While the REMAIN button is being pressed, the indicator shows the

LOCATION AND FUNCTION OF CONTROLS

TO MONITOR THE REMAINING PLAYING TIME

When the REMAIN button is being pressed, the counter shows the remaining number of selections and the remaining time, each preceded by a minus sign, before the end of the last selection.



This indication shows that 5 selections i.e. 27 minutes 30 seconds are remaining before the end of the disc.

The digits of the TIME counter will change, for example, from -27:30 to -27:29, -27:28... as the play goes on, and you can monitor the remaining playing time at any point of the disc.

When you stop pressing the REMAIN button, the display will return to the normal indications.

FRONT

@ Disc compartment Place a compact disc here. To open the lid, press the OPEN @ nottud

O AMS (Automatic Music Sensor) keys While the AMS indicator @ is being displayed, press the lad or bb key to locate the beginning of the desired selection. While the SEARCH indicator G is being displayed, keep the ide or Pol key pressed to go back or advance to the desired point in a particular selection. During pause, you can go back or advance faster than

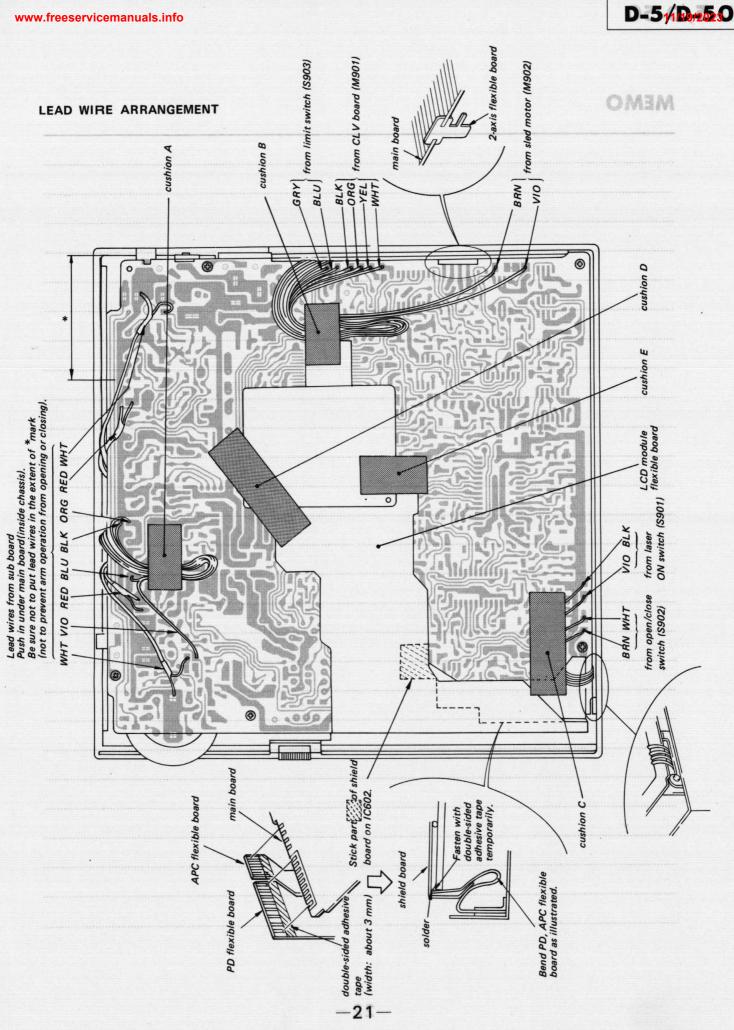
@ OPEN button

@ Display window See @-@ on pages 17 and 18.

IN REMAIN button

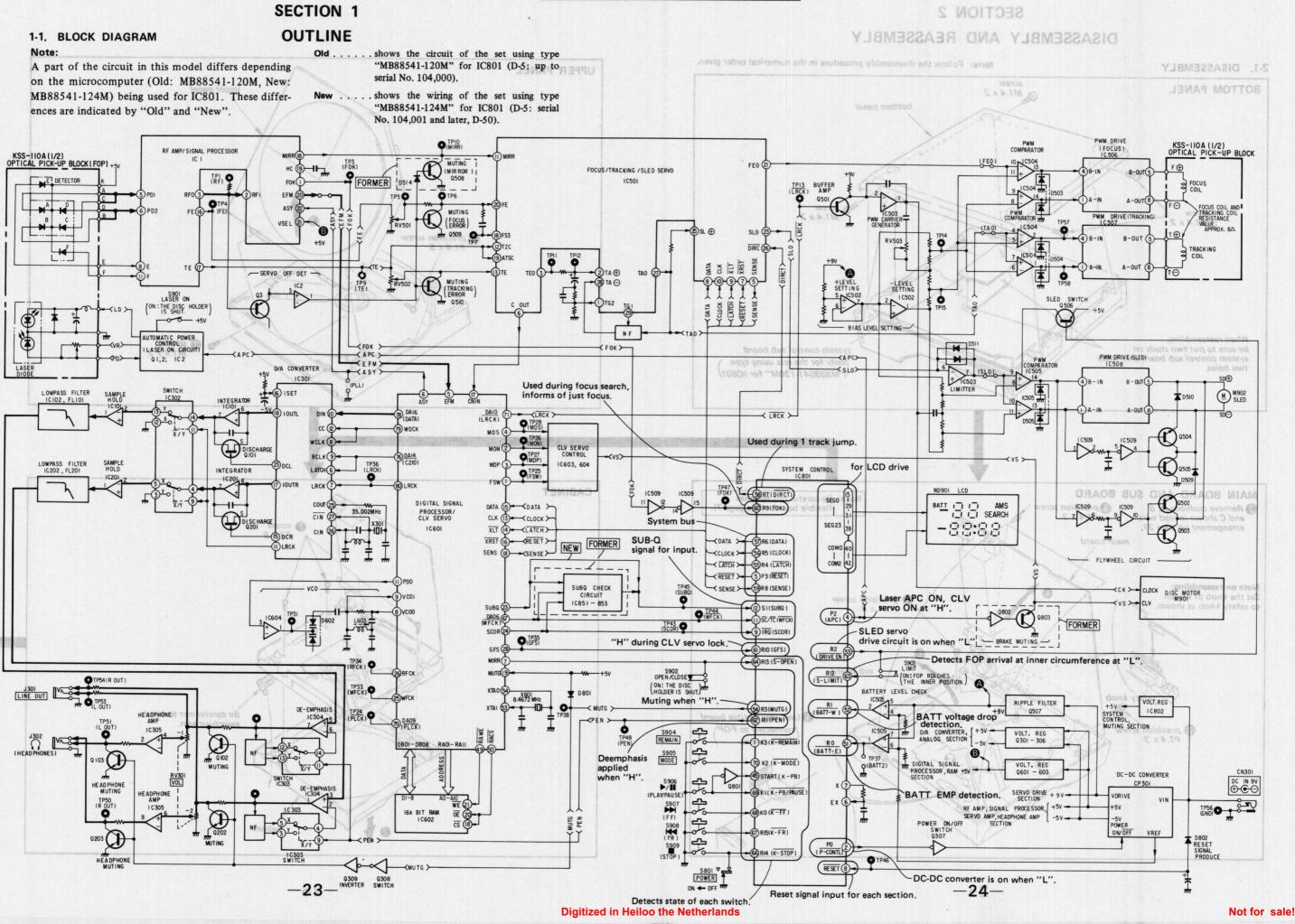
While this button is being pressed, the TRACK indicator @ will show the remaining number of selections on the disc and the TIME @ TRACK indicator





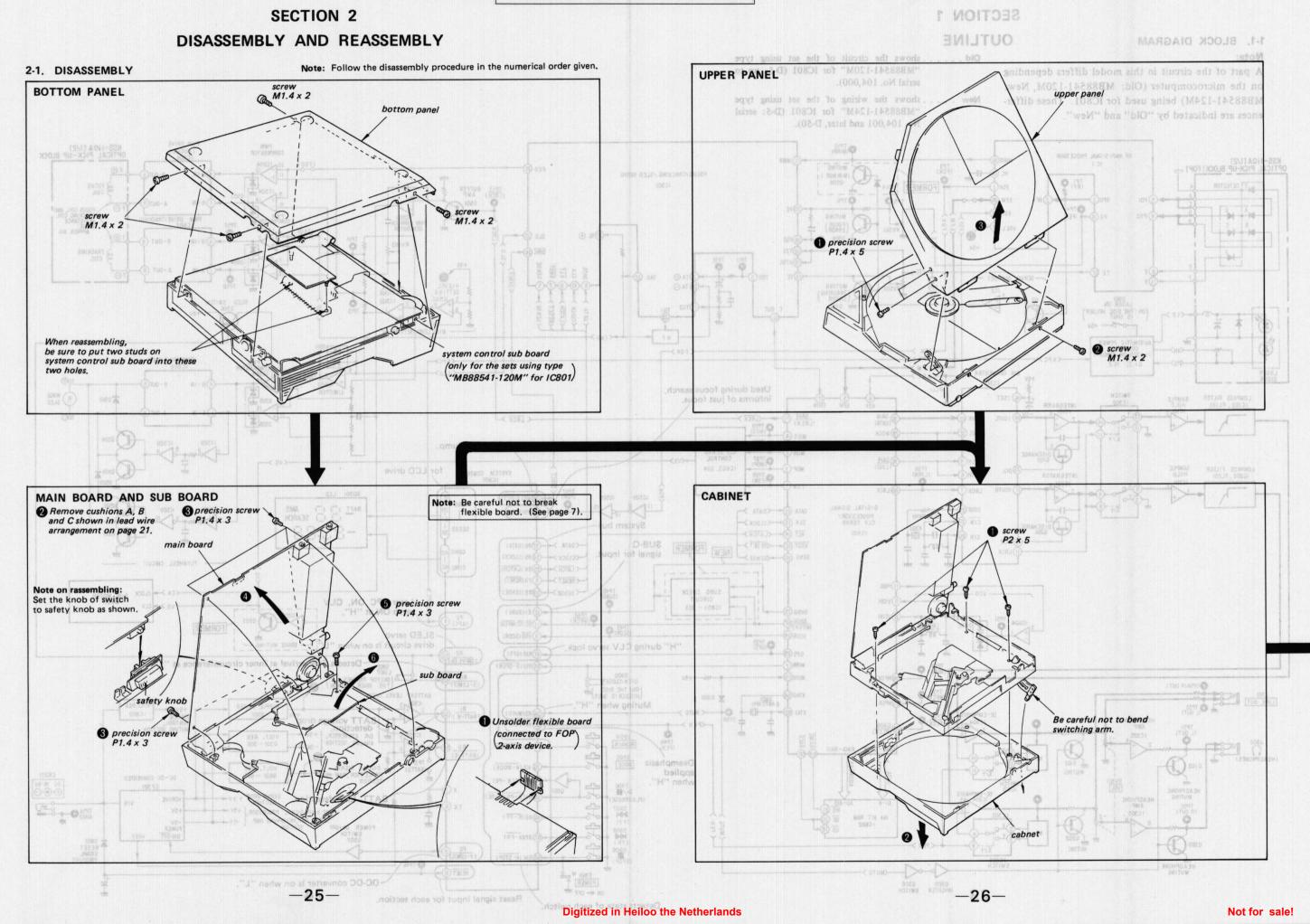




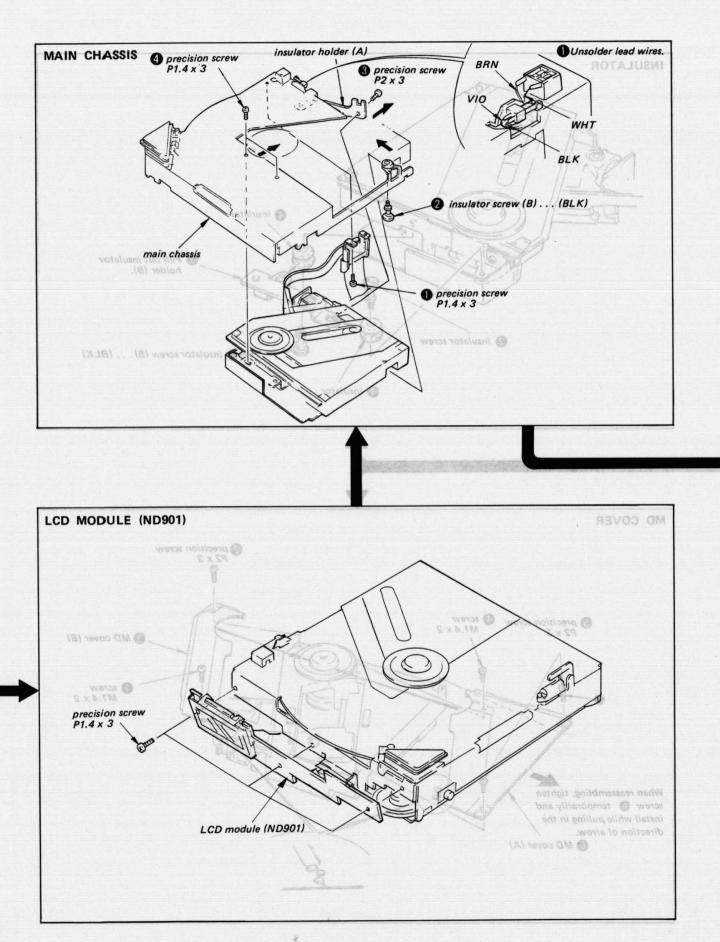




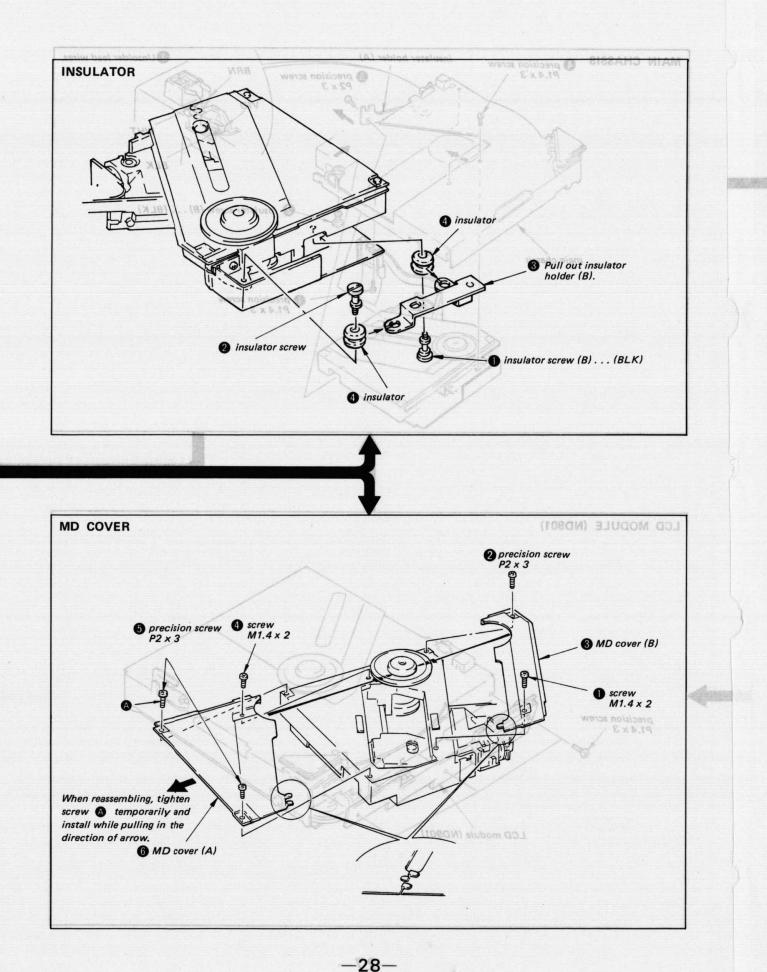
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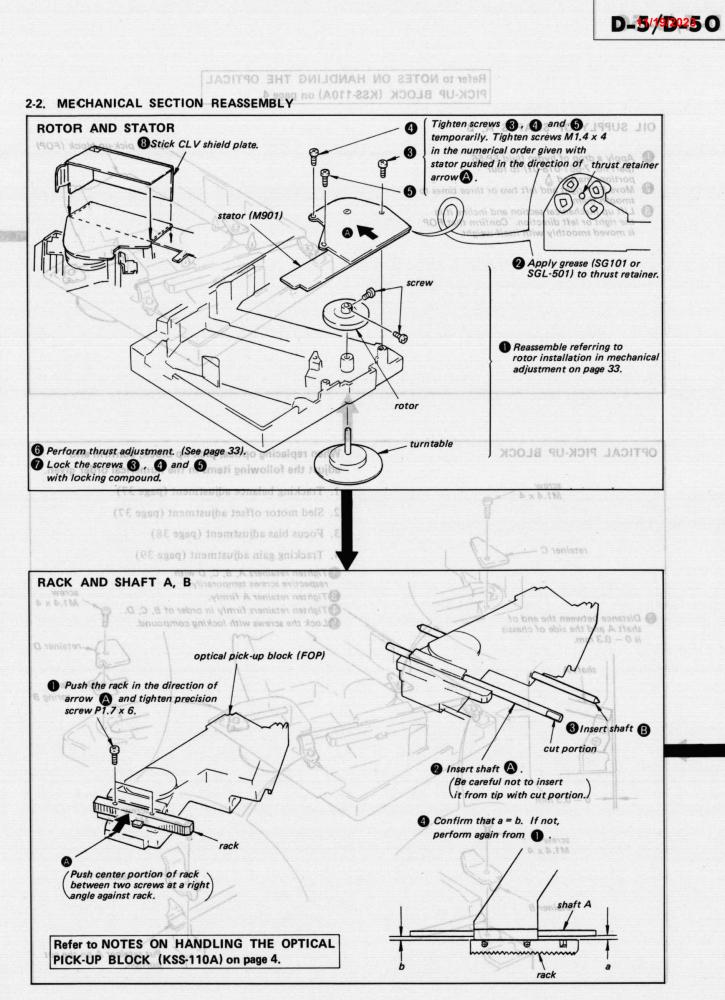


D-51/9230

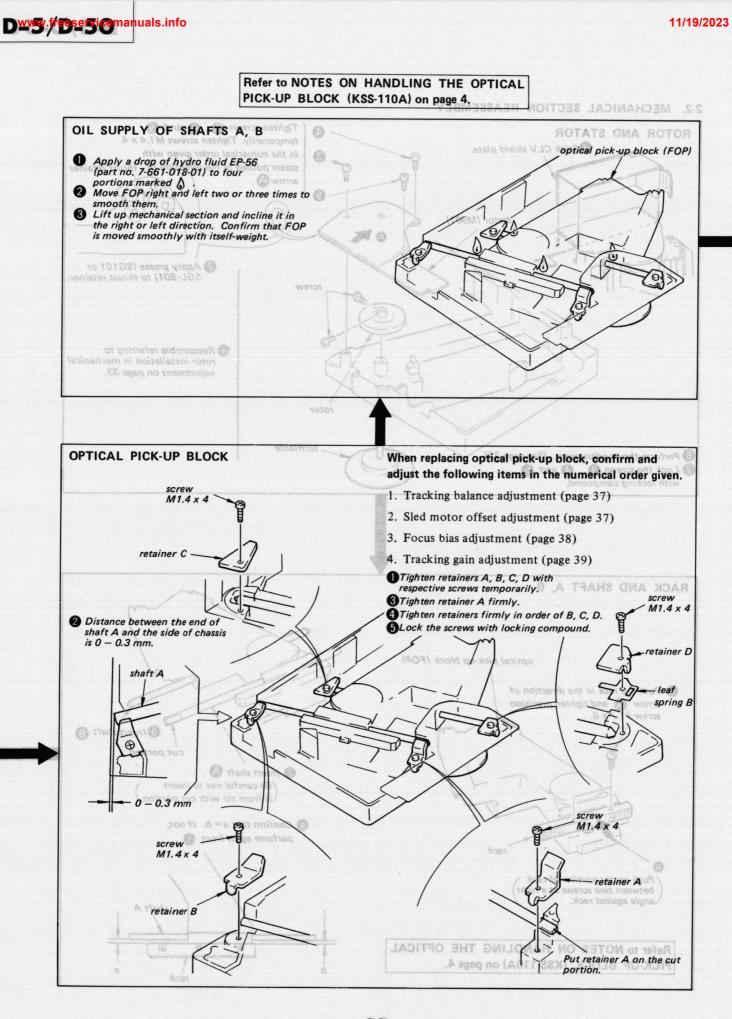


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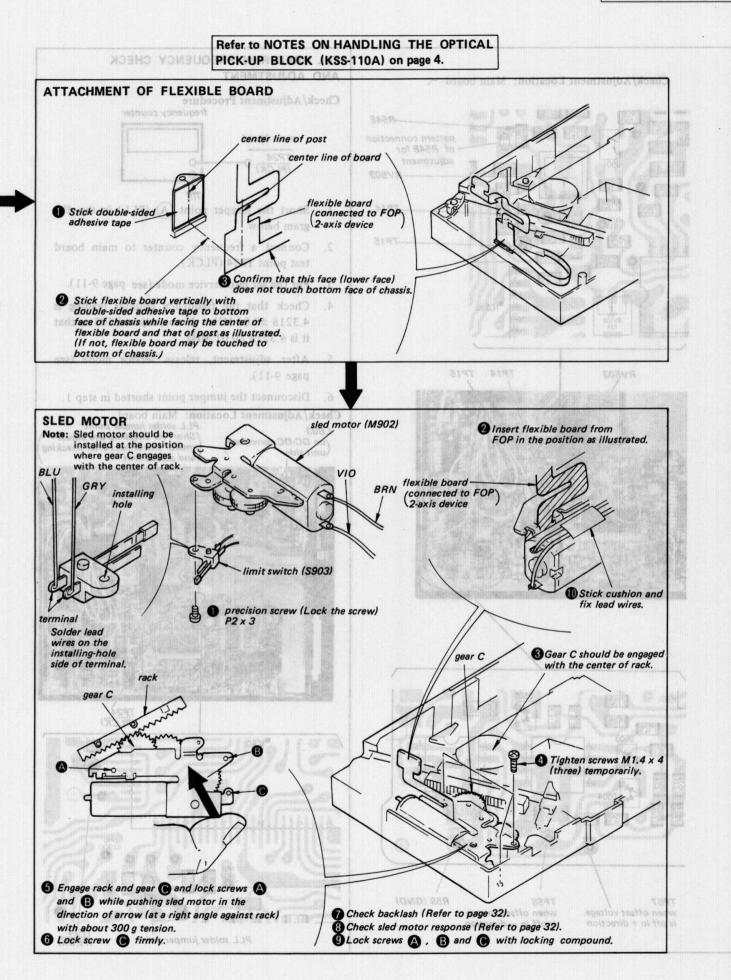


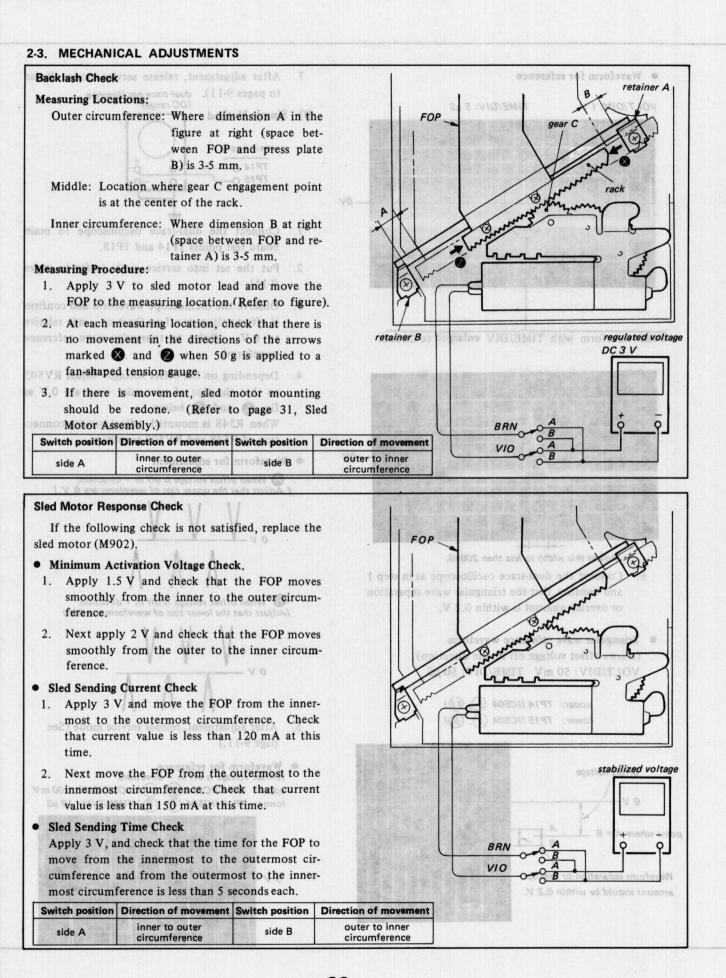


Not for sale!











SECTION 3

ADJUSTMENTS

3-1 ELECTRICAL ADJUSTMENTS

Notes on Adjustment

page 9-11.)

- Perform adjustments in the order given.
- - 4. Power supply voltage: DC 9 V

PREPARATION

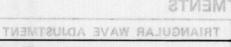
Put the set into service mode (see page 9-11) and perform the following checks. Repair if there are any

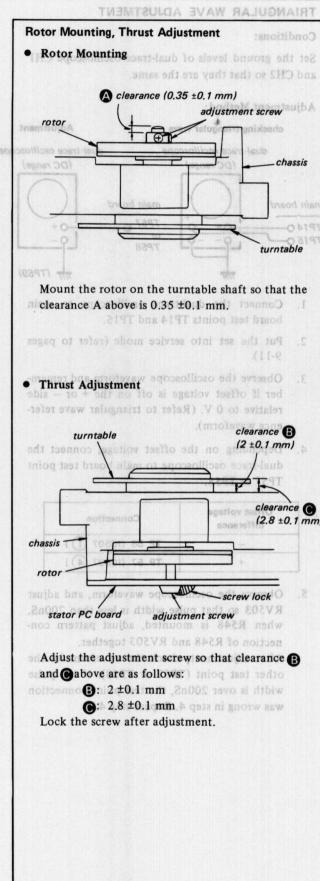
- a Sled Motor Check
- Press the OPEN button and open the top panel.
- Press the BM, Md keys and make sure that the the inmost + outmost + inmost circumfer-
 - Met: FOP moves inward
 - · Focus Search Check
- Press the Paskey. (Focus search is performed
- - 4. Pross the M key.
- Check that focus search operation stops. If it does not, press the 🎆 key again, longer,

puter IC801, the objective lens may stay up and the disc table rotate at high speed when the ballkey is pressed.

(Sets using MB88541-120M for IC801 will only perform focus search once the second time

- 1) Press I kev.
- 2) Unplug external power supply and press ▶ 陸周注ev.
- 4) Press Makey, without disc inserted. With this, focus search will be repeated over and





SECTION 3

ADJUSTMENTS

3-1. ELECTRICAL ADJUSTMENTS Notes on Adjustment

- 1. Perform adjustments in service mode. Be sure to release service mode after completing adjustment. (Refer to "Service Mode (service program)" on page 9-11.)
- 2. Perform adjustments in the order given.
- 3. Use YEDS-1, but only when disc use is indicated.
- 4. Power supply voltage: DC 9 V Power switch: ON

PREPARATION

Put the set into service mode (see page 9-11) and perform the following checks. Repair if there are any abnormalities.

• Sled Motor Check

- 1. Press the OPEN button and open the top panel.
- 2. Press the Del, keys and make sure that the FOP moves smoothly, without catching, from the inmost \rightarrow outmost \rightarrow inmost circumference.
 - ►: FOP moves outward
 - **I**: FOP moves inward

• Focus Search Check

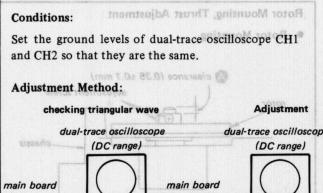
- 1. Press the OPEN button and open the top panel.
- 2. Press the key. (Focus search is performed continuously. Laser does not emit.)
- 3. Observe the FOP objective lens and check that it moves smoothly up and down with no catching or noises.
- 4. Press the key.
- Check that focus search operation stops. If it does not, press the 🔳 key again, longer. Note:

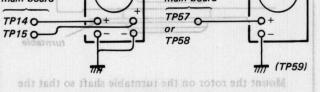
For sets using MB88541-120M for microcomputer IC801, the objective lens may stay up and the disc table rotate at high speed when the **b**key is pressed.

(Sets using MB88541-120M for IC801 will only perform focus search once the second time after the focus on state has been obtained.)

- If this happens,
- 1) Press 🔳 key.
- 2) Unplug external power supply and press ▶∎key.
- 3) Plug in external power supply.
- 4) Press key, without disc inserted. With this, focus search will be repeated over and over.

TRIANGULAR WAVE ADJUSTMENT



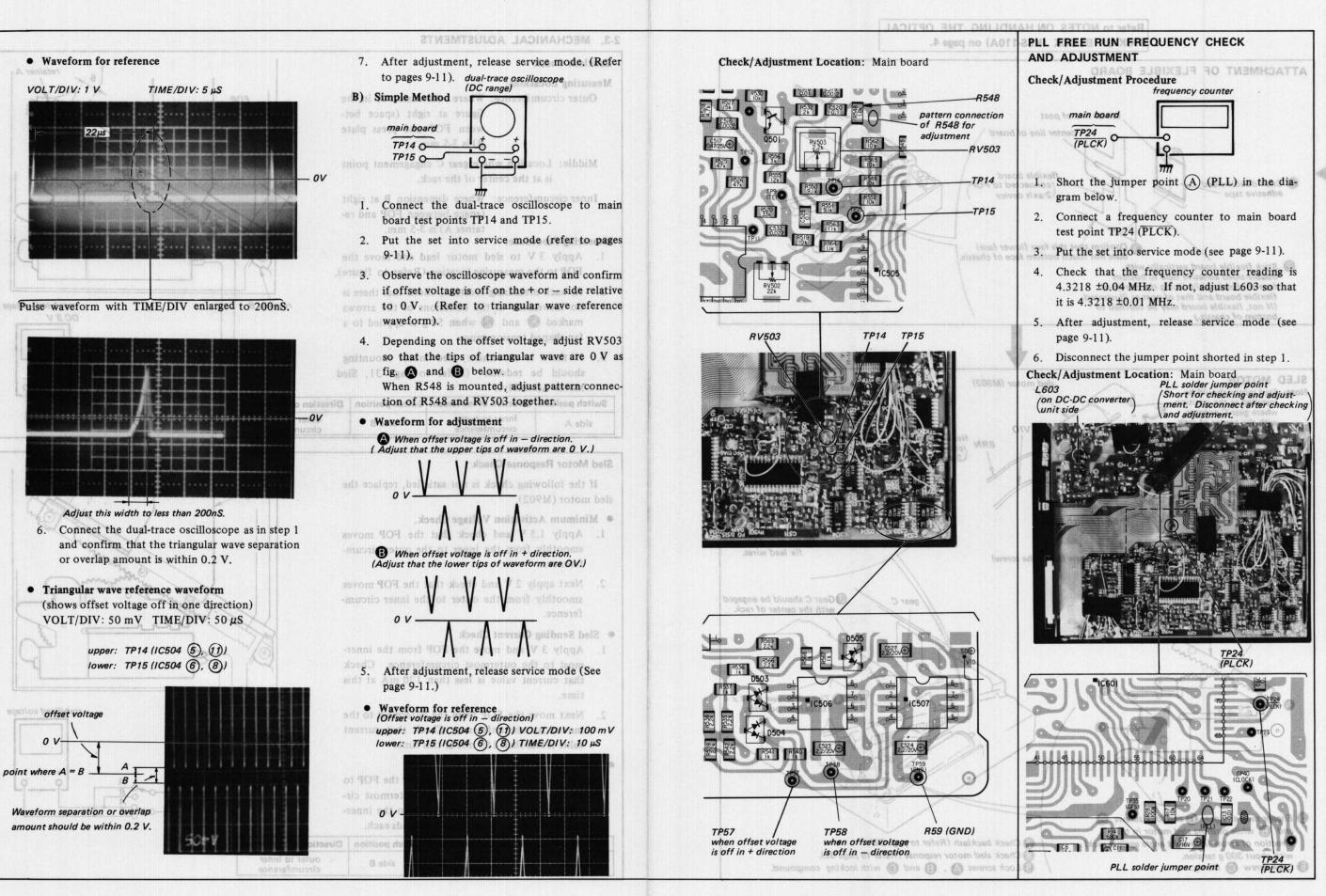


- 1. Connect the dual-trace oscilloscope to main board test points TP14 and TP15.
- 2. Put the set into service mode (refer to pages 9-11).
- 3. Observe the oscilloscope waveform and remember if offset voltage is off on the + or - side relative to 0 V. (Refer to triangular wave reference waveform).
- Depending on the offset voltage, connect the dual-trace oscilloscope to main board test point TP57 or TP58.

Offset voltage difference	Connection
-1-1-	TP 58 (IC507 1)
+	TP 57 (IC507 4)

- 5. Observe the oscilloscope waveform, and adjust RV503 so that pulse width is less than 200nS. when R548 is mounted, adjust pattern connection of R548 and RV503 together.
- After adjustment, check the waveform for the other test point (TP57 or TP58). If the pulse width is over 200nS, the test point connection was wrong in step 4. Repeat step 4.

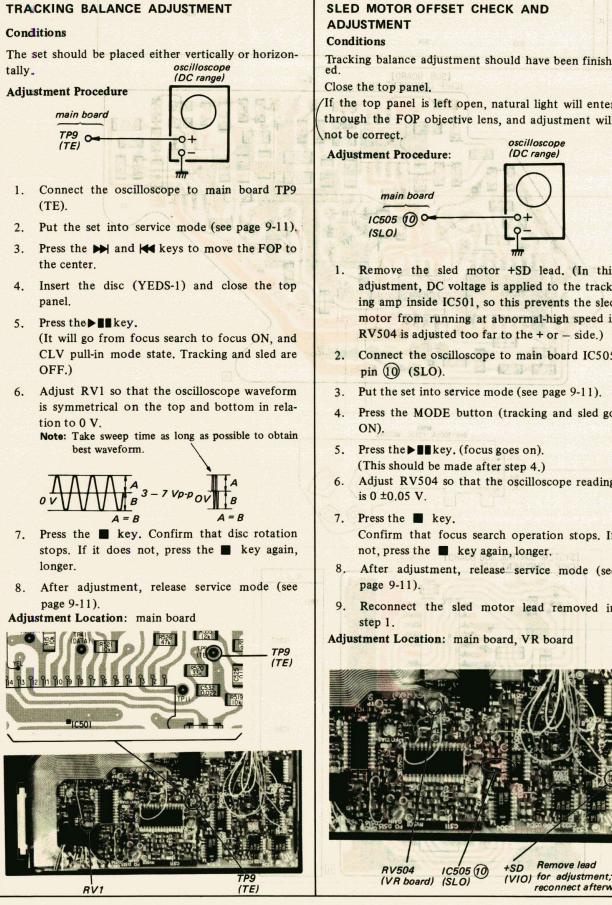
Lock the screw after adjustment.



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D-5/D-50 D-5/D-50

11/19/2023

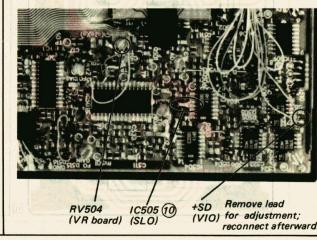


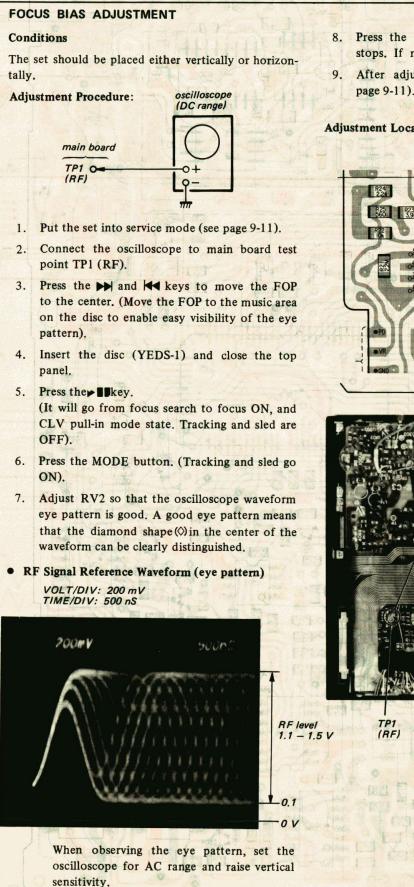
-37-

If the top panel is left open, natural light will enter through the FOP objective lens, and adjustment will oscilloscope (DC range)

- motor +SD lead. (In this adjustment, DC voltage is applied to the tracking amp inside IC501, so this prevents the sled motor from running at abnormal-high speed if RV504 is adjusted too far to the + or - side.)
- 2. Connect the oscilloscope to main board IC505
- 3. Put the set into service mode (see page 9-11).
- 4. Press the MODE button (tracking and sled go
- 5. Press the ▶∎∎key. (focus goes on). (This should be made after step 4.)
- 6. Adjust RV504 so that the oscilloscope reading
- Confirm that focus search operation stops. If not, press the 📕 key again, longer.
- 8. After adjustment, release service mode (see
- Reconnect the sled motor lead removed in

djustment Location: main board, VR board





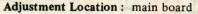
-38-

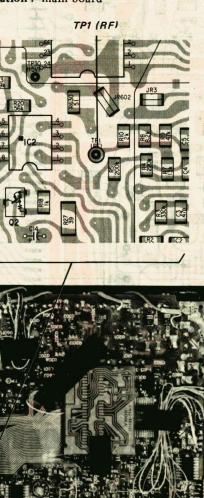
Pre	ss the	
stoj	ps. If	



D-5/D-50 D-5/D-50

key. Confirm that disc rotation not, press the 🔳 key again, longer. 9. After adjustment, release service mode (see





RV2

FOCUS/TRACKING GAIN ADJUSTMENT

Focus/tracking gain determines the pick-up followup (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operates.

However, as these reciprocate, the adjustment is at the point where both are satisfied.

- When gain is high, the noise when the 2-axis device operates increases.
- When gain is low, it is more susceptible to mechanical shock and skipping occurs more easily.

This adjustment is to be performed when replacing the following parts:

FOP, RV501 (focus gain VR), RV502 (tracking gain VR)

Adjustment Method:

11 12 13 14 15 16

- Focus Gain Adjustment -

This adjustment is not performed.

If the focus gain VR RV501 is turned, set to mechanical center (see Fig. 6).

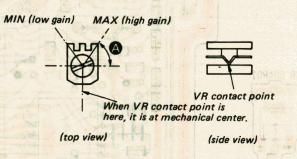
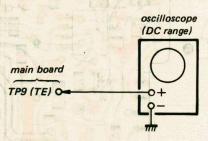


Fig. 6 Mechanical Center (seen from chip mounted side)

- Tracking Gain Adjustment -(perform at normal operation)



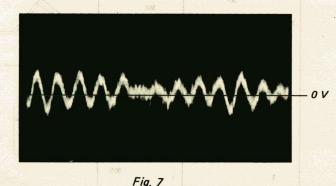
- Place the set level, horizontally (upper panel can be facing down). (If the set is not level, the 2-axis device will be weighted and adjustment cannot be done.)
- Connect the oscilloscope to main board test point TP9 (TE).

- 3. Turn the power switch on, insert the disc (YEDS-1) and press the key.
- 4. Turn RV502 slightly clockwise (tracking gain drops) and obtain a waveform with a fundamental wave (waveform has large waves) as in Figure 7.
- 5. Turn RV502 slowly counterclockwise (tracking gain rises) until the fundamental wave disappears (no large waves) as in Figure 8.
- 6. Set RV502 to the position about 30° counterclockwise from the position obtained in step 5. If RV502 contact point location is within the range shown in Figure 6 (A), tracking gain is too high. In this case, readjust from step 4.
- 7. Select AMS mode with the MODE button. continuously press D or H key and observe the 100 track jump waveform. Check that no traverse waveform appears for both \triangleright and directions. (See Figures 9 and 10.) It is acceptable if the traverse waveform appears only now and then, but if it appears constantly, raise tracking gain slightly and check step again.
- 8. Check that there is not an abnormal amount of operation noise (white noise) from the 2-axis device. If there is, tracking gain is too high, so readjust starting with step 4.

The waveforms are those measured with the oscilloscope set as shown below.

VOLT/DIV: 1 V TIME/DIV: 5 mV

• Waveform when tracking gain is lowered. Fundamental wave appears (large waves).



large waves).

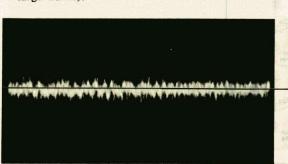
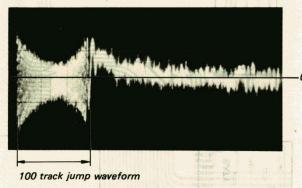
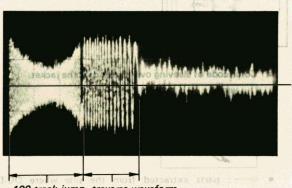


Fig. 8

of adjustment).



of low tracking gain.)



100 track jump traverse waveform waveform

11/19/2023

SECTION 4

• Waveform when fundamental wave disappears (no

• Waveform with no traverse waveform during 100 track jump. (Brake application is smooth because

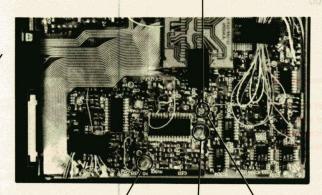
Fig. 9

• Waveform with traverse waveform during 100 track jump. (Brake application is poor because

Fig. 10

-40 -

Adjustment Location: main board



RV501 (focus gain)

RV502 (tracking gain) TP9 (TE)



SECTION 4

DIAGRAMS

A part of the circuit in this model differs depending on the microcomputer (Old: MB88541-120M, New: MB88541-124M) being used for IC801. These differences are indicated by "Old" and "New" in schematic and mounting diagrams.

- Old shows the circuit or value of the set using type "MB88541-120M" for IC801 (D-5: up to serial No. 104,000).
- New shows the wiring or value of the set using type "MB88541-124M" for IC801 (D-5: serial No. 104,001 and later, D-50).

- All capacitors are in μ F unless otherwise noted. pF: $\mu\mu$ F 50WV or less are not indicated except for electrolytics
- All resistors are in ohms, ¼W or less unless otherwise specified.
- 🖾 : signal path.
- Components for right channel have same values as for left channel. Reference numbers are coded from 200.
- ▲ : internal component.
- 1% shows tolerance.
- ----- : B+ bus.
- === : B- bus.
- _____: adjustment for repair.
- Voltages, waveform and total current are measured with top panel closed.
- Power voltage is DC 9 V and fed with regulated dc power supply from DC in 9 V (external power voltage) jack. Voltages are DC with respect to ground in service mode. Voltage variations may be noted due to normal production tolerances. no mark: stop mode
- (): play mode
- Waveforms are taken to ground in service mode by using oscilloscope.

Voltage variations may be noted due to normal production tolerances.

• Total current is measured in service mode.

• Switch

Ref. No.	Switch	Position	
S801	POWER	OFF	
S901	LASER ON	ON	
S902	OPEN/CLOSE	ON	
S903	LIMIT	OFF	
S904	REMAIN	OFF	
S905	MODE	OFF	
S906	► ■ (PLAY/PAUSE)	OFF	
S907	(FF)	OFF	
S908	(FR)	OFF	
S909	(STOP)	OFF	

See page 9 - 12 for setup of service mode.

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

[LIQUID CRYSTAL MODULE]

80

DOM

150 10

100 De

2. 20

- Color code of sleeving over the end of the jacket.
- • : parts extracted from the side where DC-DC converter unit is mounted.
- • : parts extracted from chip component side.

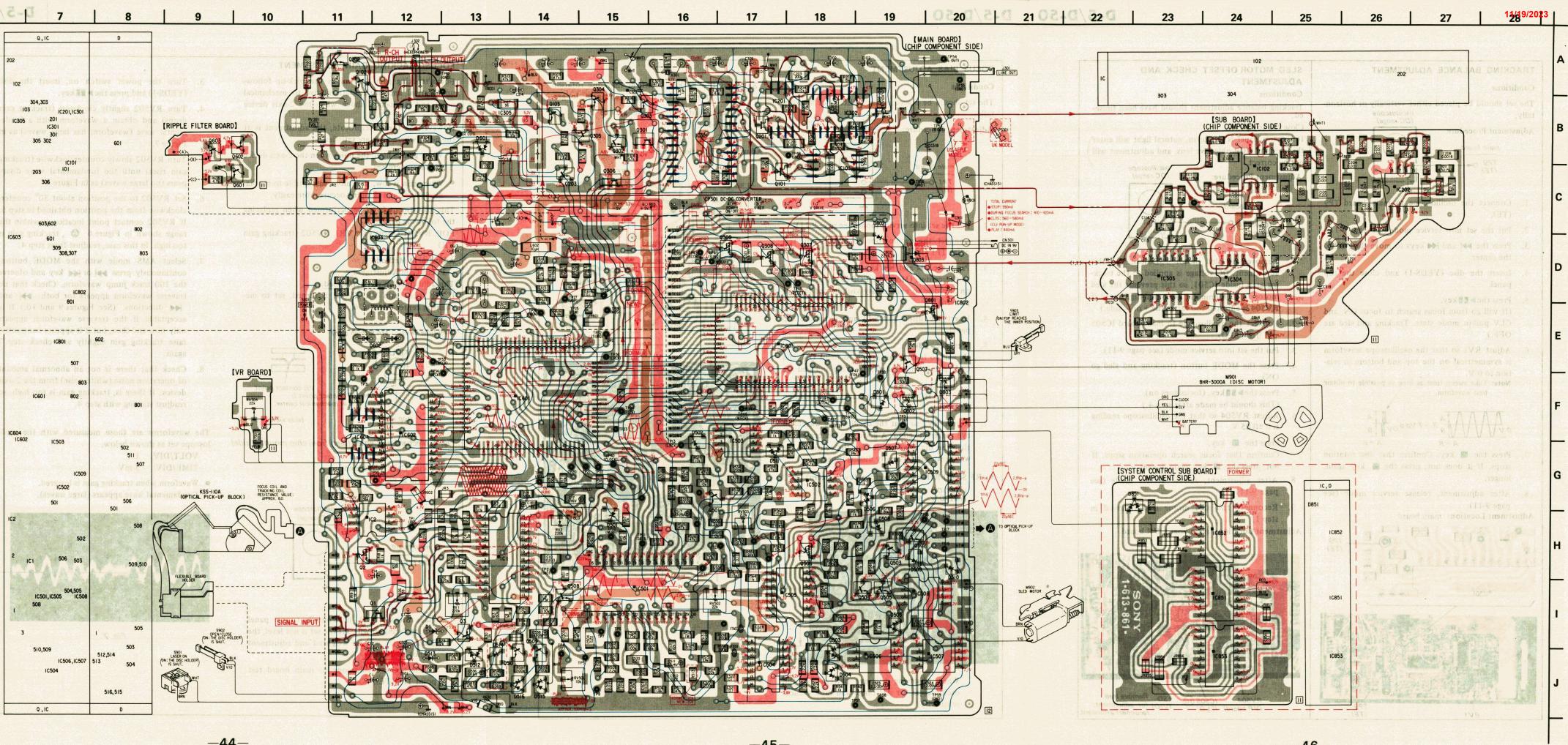
Through hole

.000

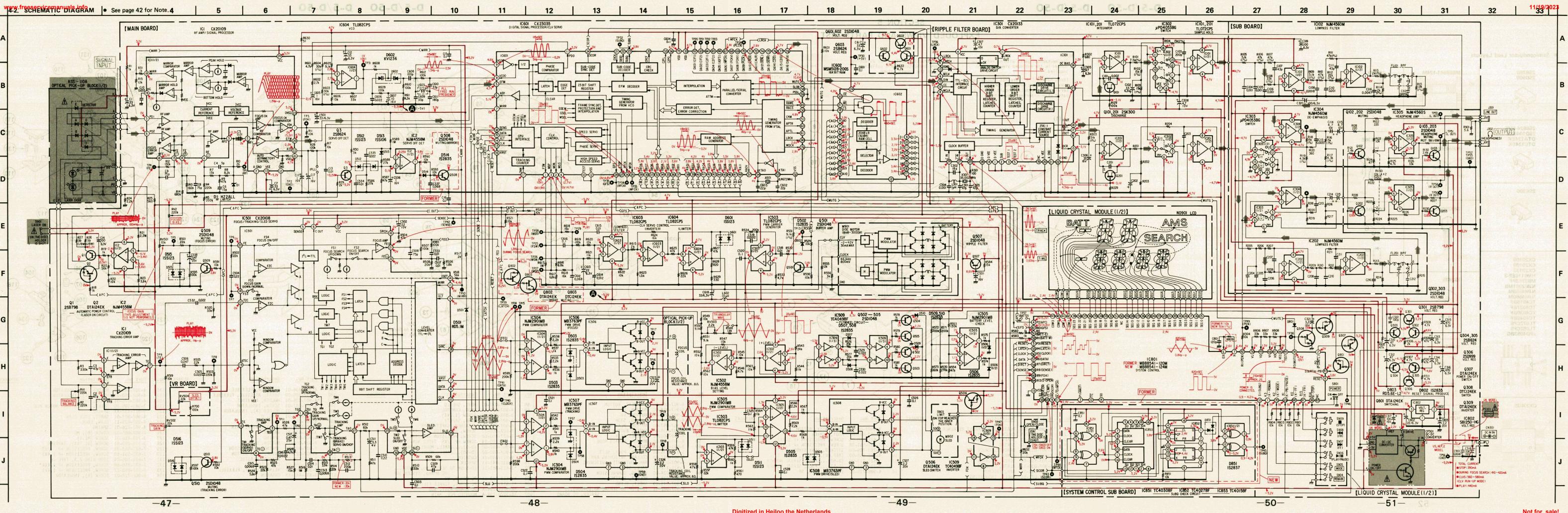
conductor pattern where DC-DC converter unit is mounted.

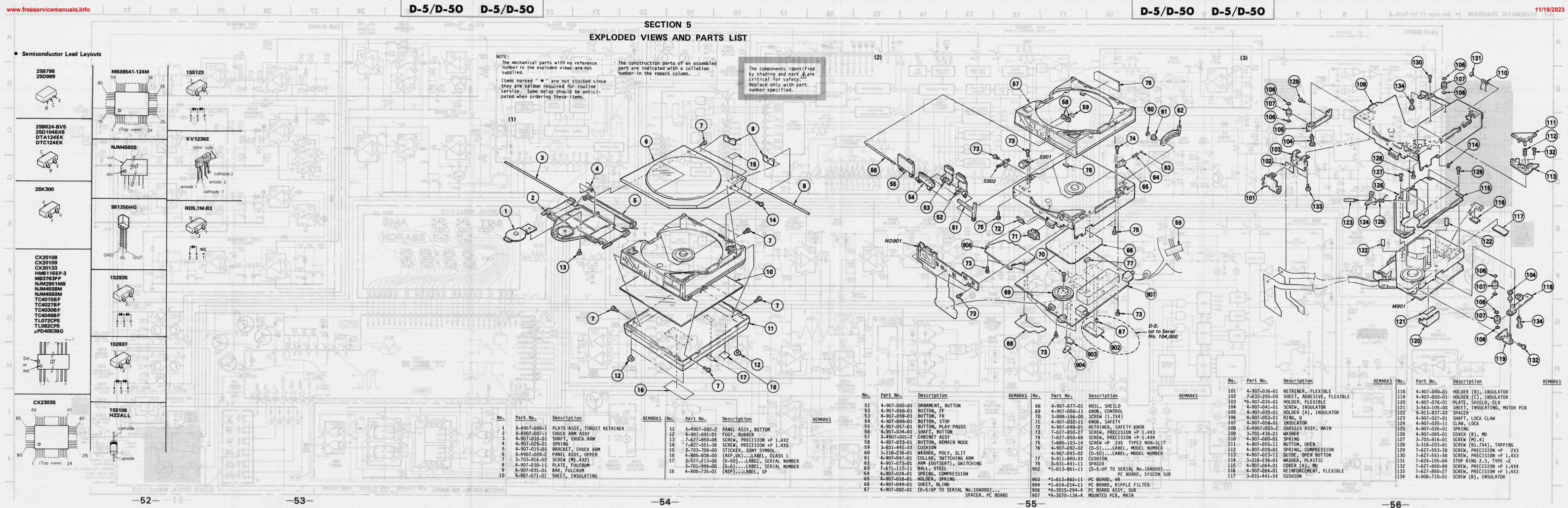
- ----- : signal path
- ----- : L-CH signal path
- ----- : R-CH signal path
- : B + pattern B-pattern

-43



-44-





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D-51/10=050

	dentifi ark ∭ai ety. h part	components i shading and m lace only wit ser specified	162 162	905		PF:µµF sistors ammab mH, UH :			red for routine should be antic hese items. The same circu as be indicate as the other same (10)	marked " * " are re seldom requi e. Some delay when ordering ti re are two or mor in as a stereoph circuit parts n circuit parts n ts may be omitted	they a servic pated If the set su typica capaci
50V 50V 50V	5% 5% 5%	0.00187F					04000)		Description FRAME LEAD (F (D-5:1) TO SER	ELECTRICS Part No. *1-535-511-11 *1-613-861-11	<u>Ref.No.</u> 901 902
50V 50V	10% 5% 20%	M902			S903		155			*1-513-862-11 *1-614-214-11	903 904 905 M
10V 50V 50V	20% 10% 5%	4.7MF 1P 0.0047MF	TATALUM	164	162	VE.31		De	158	*A-3015-294-A *A-3070-134-A 1-123-646-00	906 907 01
50V 50V 50V	5% 5% 10%	(P.18PF (P.47PF	(154	1-15-099-00		162	120		CERAMIC CHIP 4 CERAMIC CHIP 4 CERAMIC CHIP 5	1-163-109-00 1-163-109-00	62 63 64
6.3V 16V 10V	20% 20% 20%	47MF 33MF 19 4.7MF	BDECT TANTAL, CHI	3		50V 60V		100		1-123-9-50 1-123-9-50 1-123-9-50	65 66 67
10V 6.3V 6.3V	20% 20% 20%	19 4.7MF 47MF 47MF	-		T	#		1			C8 C9 C10
6.3V 6.3V 6.3V	20% 20% 20%	33MF 33MF 470MF	ELECT ELECT ELECT ELECT	Cit	5	VE.D			- C-	МЭ	C13
6.3V 16V 16V	20% 20% 20%	470MF 100MF 330MF	ELECT ELECT ELECT	1-123-298-00 1-123-333-00 1-123-322-00	X	- Cha	d	MOC MIL	CERAMIC CHIP 0	1-123-00 1-163-038-00 1-163-038-00	C14 C15 C16
6.3V 6.3V 16V	20% 20% 20%	100MF 100MF 100MF	ELECT ELECT TANTAL. CHI	00-100- 152		16V 50V 6.3V		Z	TANTAL, CHIP IN CERAMIC CHIP 0		C17 C101 C102
50V 6.3V 10V	6% 20% 20%	100PF 33MF 22MF	CERAMIC ELECT TANTALUM	1-102-973-00 1-123-646-00 1-131-379-00	C501 C502 C502	50V 50V 50V	5% 5% 5%	.001MF	CERAMIC CHIP 0	1-163-188-00 1-163-335-11 1-163-335-11	C103 C104 C105
25V 25V 25V	Part	(P 0.22MF (P 0.022MF	CERAMIC CHI CERAMIC CHI CERAMIC CHI CERAMIC CHI ription	1-163-038-00 1-163-081-00 1-163-033-00	0503 0504 0505 0505 C505	voa voa s voa	aa aa Part N	99F .0018MF	Description	1-163-335-11 1-163-108-00 1-163-211-00 1-163-335-11	8010 8010 01 REMARKS
<u>No.</u> 151 152 153	*X-332 3-320	0-103-1 CHAS -102-01 RETA	SSIS ASSY AINER (A) AINER (B)	1-163-035-00 1-163-021-00 1-163-021-00	C506 C507 C508	159 160 161	2-622- 3-320-		CERAMIC CHIP 40	1-163-108-00	C111 C112 C112 C113
153 154 155 156 157	3-320 3-320 3-320	-104-01 RETA -121-01 RACK -106-01 SHAF	INER (C)	1-163-109-00 1-163-081-00 1-135-103-00	C509 C510 C511	162 163 164 165	3-703- X-3320 7-627-	816-11 -101-1 553-37 552-77	SCREW (M1.4X4) TURNTABLE ASSY SCREW, PRECISIO SCREW, PRECISIO	1-131-375-00 1-1 EX2 375 4 0 MC	C114 C114 C115 C115
157 158 Voa	X-262	2-803-1 ROTO	DR ASSYARSO	1-163+124-00 1-163-019-00 1-163-019-00	921 C512 C513 C514 C514	905 Å	4• 1.8 205	RMS60 RMF	DEVICE, OPTICAL	, KSS-110A (RP)	C201
50V 50V 25V 50V	10% 10% 10% 10%	P 0.0022MF P 0.47MF	CERAMIC CHI CERAMIC CHI TANTAL. CHI CERAMIC CHI	1-163-019-00 1-163-013-00 1-135-083-00 1-135-083-00 1-163-021-00	C515 C516 C517 C518 C518	50V 50V 50V 50V 50V	26.55 % 26.55 % 26.57 %	001MF 001MF 001MF	The co by sha critic Replac	omponents identi ading and mark / cal for safety. ce only with par r specified.	fied Jare

The components identified

by shading and mark A are critical for safety.

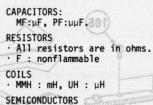
Replace only with part number specified.

(162)

re

NOTE :

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuitsin a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.



In each case, U : μ, for example: UA...: μA..., UPA...: μPA..., UPC...: μPC, UPD...: μPD...

(351)

ELECTRICAL PARTS

ELECTRICAL PARTS

(157)

(156)

			T. J			ID-6 No	Brat No.	Descritter			
Ret	f.No.	Part No.	Description			Ref.No.	Part No.	Description			
9	901	*1-535-511-11	FRAME, LEAD (F TYPE)			C208		CERAMIC CHIP		5%	50V
9	902	*1-613-861-11	(D-5:UP TO SERIAL No.104			C210 C211	1-163-335-11 1-163-108-00	CERAMIC CHIP CERAMIC CHIP		5% 5%	50V 50V
	903	*1-613-862-11	PC BOARD, VR	STSCON	508	6211	1-103-108-00	CERAMIC CHIP	43FF	5%	501
	904	*1-614-214-11	PC BOARD, RIPPLE FILTER	2		C212	1-163-056-00			10%	50V
	905 \Lambda		DEVICE, OPTICAL, KSS-110	A (RP)		C213	1-130-477-00	MYLAR	0.0033MF 4.7MF	5% 20%	50V 10V
	906	*A-3015-294-A	PC BOARD ASSY, SUB			C214	1-131-375-00	TANTALUM	4./MF	20%	104
	907	*A-3070-134-A	MOUNTED PCB, MAIN	16	1 (58	C215	1-131-375-00	TANTALUM	4.7MF	20%	10V
				St.	. 2	C216	1-163-055-00			10%	50V
	C1 C2	1-123-646-00 1-163-109-00	ELECT 33MF CERAMIC CHIP 47PF	20%	6.3V 50V	C301	1-163-109-00	CERAMIC CHIP	4/26	5%	50V
	C3	1-163-109-00	CERAMIC CHIP 47PF	5%	50V	C302	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
		1 100 100 00	0	1	Your .	C303	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
	C4	1-163-088-00	CERAMIC CHIP 5PF	0.25PF		C304	1-163-141-00	CERAMIC CHIP	0.001MF	10%	50V
	C5 C6	1-163-021-00 1-163-097-00	CERAMIC CHIP 0.01MF CERAMIC CHIP 15PF	10%	50V 50V	C305	1-123-647-00	FLECT	47MF	20%	6.3V
		1-103-097-00	CERAMIC CHIP ISPI	5/0	201	C306	1-123-820-00	ELECT	33MF	20%	16V
	C7	1-123-646-00	ELECT 13 33MF	20%	6.3V	C307	1-135-096-21	TANTAL. CHIP	4.7MF	20%	10V
	68		CERAMIC CHIP 75PF	5%	50V	0000	1 105 005 01	TANTAL CUITA	4 745	20%	104
	C9	1-163-114-00	CERAMIC CHIP 75PF	5%	50V	C308 C310	1-135-096-21	TANTAL. CHIP	4.7MF	20% 20%	10V 6.3V
	C10	1-163-074-00	CERAMIC CHIP 0.033MF	10%	25V	C312	1-123-647-00	ELECT	47MF	20%	6.3V
	C11		CERAMIC CHIP 1MF	10%	16V		VIAS_				
1	C12	1-123-646-00	ELECT 33MF	20%	6.3V	C313	1-123-646-00	ELECT	33MF 33MF	20%	6.3V 6.3V
	C13	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	C314 C315	1-123-646-00	ELECT	470MF	20%	6.3V
	C14	1-123-661-00	ELECT 100MF	20%	6.3V	1010				2010	
	C15	1-163-038-00	CERAMIC CHIP 0.1MF		25V	C316	1-123-298-00	ELECT	470MF	20%	6.3V
		1 162 020 00	CEDANIC CUID & INF	~	acu	C317	1-123-333-00	ELECT	100MF	20%	16V 16V
	C16 C17	1-163-038-00	CERAMIC CHIP 0.1MF TANTAL. CHIP 1MF	10%	25V 16V	C318	1-123-322-00	ELECT	330MF	20%	104
	C101	1-163-212-00	CERAMIC CHIP 0.002MF	5%	50V	C319	1-123-661-00	ELECT	100MF	20%	6.3V
				-		C320	1-123-661-00	ELECT	100MF	20%	6.3V
	C102 C103	1-123-646-00 1-163-188-00	ELECT 33MF CERAMIC CHIP 200PF	20% 5%	6.3V 50V	C321	1-135-092-21	TANTAL. CHIP	3.3MF	20%	16V
	C103		CERAMIC CHIP 200PF	5%	50V 50V	C322	1-102-973-00	CERAMIC	100PF	5%	50V
						C501	1-123-646-00	ELECT	33MF	20%	6.3V
	C105	1-163-335-11	CERAMIC CHIP 0.001MF	5%	50V	C502	1-131-379-00	TANTALUM	22MF	20%	100
	C106 C107	1-163-335-11 1-163-108-00	CERAMIC CHIP 0.001MF CERAMIC CHIP 43PF	5% 5%	50V 50V	C503	1-163-038-00	CERAMIC CHIP	0.1MF		25V
	0107	1-105-108-00	CERANIC CHIF 45FT	510	501	C504	1-163-081-00	CERAMIC CHIP			25V
	C108	1-163-211-00		5%	50V	C505	1-163-033-00	CERAMIC CHIP	0.022MF	10%	25V
	C110	1-163-335-11		5%	50V 22	and a second	1 162 025 00	CERAMIC CHIP	0.047ME	10%	25V
	C111	1-163-108-00	CERAMIC CHIP 43PF	5%	50V	C506 C507	1-163-035-00 1-163-021-00	CERAMIC CHIP		10%	50V
	C112	1-163-056-00	CERAMIC CHIP 0.0056MF	10%	50V	C508	1-163-114-00			5%	500
	C113	1-130-477-00		5%	50V			TAINER (B)	3-103-01 RE	158-E	153
	C114	1-131-375-00	TANTALUM 4.7MF	20%	10V	C509 C510	1-163-109-00 1-163-081-00	CERAMIC CHIP CERAMIC CHIP		5%	50V 25V
	C115	1-131-375-00	TANTALUM 4.7MF	20%	100	C510	1-135-103-00	TANTAL. CHIP		10%	44
	C116	1-163-055-00		10%	500			(a) TRA	0-107-01 SH	3-32(187
	C201	1-163-212-00	CERAMIC CHIP 0.002MF	5%	50V	C512	1-163-124-00	CERAMIC CHIP		5%	50V
	C202	1-123-646-00	ELECT 33MF	20%	6.3V	C513 C514	1-163-019-00 1-163-021-00	CERAMIC CHIP CERAMIC CHIP		10%	50V 50V
	C202	1-163-188-00		20% 5%	50V	0514	1-103-021-00	CERANIC ONIP	0.011	10%	501
	C204	1-163-335-11		5%	50V	C515	1-163-019-00			10%	50V
	091	ponents identifi				C516	1-163-013-00	CERAMIC CHIP		10%	50V
	C205 C206	1-163-335-11 1-163-335-11	CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF	5% 5%	50V 50V	C517 C518	1-135-083-00	TANTAL. CHIP CERAMIC CHIP		10% 10%	25V 50V
	C206		CERAMIC CHIP 0.001MP	5%	50V 50V	0310	1-103-021-00	CENARIC CHIP	0.011	10%	501
		SDecities_	190000 888	and the second s							

ELECTRICAL PARTS

	ELECTRIC	AL PARTS						ELECTH
Ref.No.	Part No.	Descript	ion hozed	.0	Part N		Ref.No.	Part No.
IC507	8-759-908-81	IC MB376	3PF JAT 3M	047-00	1-216-		L301	1-408-728-2
10508	8-759-908-81	IC MB376					L602	1-408-740-0
10509			9BE JATEM		1-216-		L603	1-405-982-0
IC601	8-759-912-52	IC CX230	350 JAT 3M	073-00		R631	M901	X-2622-801-
IC602	8-759-302-69	IC HM611	6FP-3	00-080	1-216-		M902	X-3320-102-
IC603	8-759-908-17	IC TL082	CPS AT 3M		1-216-		ND901	1-806-915-1
IC604	8-759-908-17		CPS AT M		1-216-			
IC801	8-759-914-62	IC MB885	41-124M		1-216-		PS301/	.1-532-685-0
IC802	8-759-912-55	IC S-812	250HG				01	WOI 101 (
IC851	8-759-200-78	(D 5.110	TO SERIAL	No 1040	1001	8803	Q1 Q2	8-729-101-0
10051	8=733=200=78	(0=3.0)		IC TC4		R804	03	8-729-162-4
IC852	8-759-200-76	(D-5:11P	TO SERIAL				45	0-723-102-
TOODE	0 103 200 10	10 010.		IC TC4	027BF		Q101	8-729-130-0
IC853	8-759-200-70	(D-5:UP	TO SERIAL	No.1040	(00)		Q102	8-729-800-3
	WDT\T 32	336	METAL CHI	IC TC4	015BF		0103	8-729-800-3
J301	1-507-787-21	JACK, LI	NE ORT				1 4.00	0.120.000
J302	1-507-787-11				1-216-1		Q201	8-729-130-0
	NO(\)[32	10K	METAL CHI				0202	8-729-800-3
JR1	1-216-296-00	(D-5:UP	TO SERIAL	No.1040	(000		Q203	8-729-800-3
	9-18 1%		METAL CHI			1/8W		
JR2	1-216-296-00	(D-5:UP	TO SERIAL	No.1040	(000		0301	8-729-101-0
	(000401.04					1/8W	0302	8-729-800-3
							Q303	8-729-800-3
JR3	1-216-295-00	(D-5:UP	TO SERIAL	No.1040	(000	R901		
			METAL CHI	P 0	5%	1/10W	Q304	8-729-162-4
JR301	1-216-295-00	METAL CH	HIP O	5%	1/10W	IVA	Q305	8-729-162-4
JR302	1-216-295-00	METAL CH	IIP 0	5%	1/10W	RV2	Q306	8-729-199-
JR303	1-216-296-00	(D. 5. SEE	RIAL No.10	4001 AND	LATED	D 50)	0307	8-729-901-
01303	1-210-290-00	(0-5.50)	METAL CHI			1/8W	0308	8-729-901-
JR304	1-216-296-00	(D-5 - SEE	TAL No.10	4001 AND	LATER.			8-729-901-
011004			METAL CHI			1/8W	4005	0-725-501-
	AZE 22K				-065-1		Q501	8-729-800-3
JR502	1-216-295-00	METAL CH		5%	1/10W		Q502	8-729-800-
JR601	1-216-296-00	(D-5:UP				· 5801	Q503	8-729-800-
		E (80	METAL CHI			1/8W		
JR602	1-216-295-00	(D-5:UP				5992	Q504	8-729-800-
			METAL CHI	P 0	5%	1/10W	Q505	8-729-800-
		INIJI RAG		198-00	-563-1		Q506	8-729-901-
JR851	1-216-296-00						0507	
10050	1 010 000 00	10 5.00	METAL CHI	P 0	5%	1/8W	Q507	8-729-800-
JR852	1-216-296-00	(D-5:0P	TO SERIAL	NO.1040	JUU)		Q508	8-729-800-
			METAL CHI	P 00- 0	5%	1/8W	A CONTRACTOR	MO1/1 39
JR853	1-216-296-00	(D 5.110	TO SERIAL	No. 1040	1001	5907 5908	0500	0 720 000
08055	1-210-290-00		METAL CHI			1/8W	Q509	8-729-800-
JR854	1-216-296-00	(D_5.110	TO SERIAL	No 1040	1001	1/04	Q510	8-729-800-
08034		(D-5.0F	METAL CHI	D 0	59		Q601	8-729-800-
	35.003MHz	ARICINJ	METAL CHI	r 00=000	3/6	1/8W	Q602	8-729-800-
JR855	1-216-295-00	(D_5.11P	TO SERIAL	No. 1040	1001	x601	0603	8-729-162-
010000	1-210-235-00	(0-5.0)	METAL CHI	P 0	5%	1/10W	0801	8-729-901-
JR856	1-216-295-00	(D-5-11P	TO SERIAL		000	1/104	0001	0-723-301-
01000	1-210-235-00	(0-0.01	METAL CHI	P 0	5%	1/10W	0802	8-729-901-
						-/	4002	WOINI 12
JR857	1-216-295-00	(D-5:UP	TO SERIAL	No.1040		a de la constante	0803	8-729-901-
			METAL CHI		5%	1/10W	1000	P10(-(1/10W
JR858	1-216-295-00	(D-5:UP	TO SERIAL		000)	-,		
5		(- 0.01	METAL CHI		5%			
					~~	1/104		

ELECTRICAL PARTS 21849 JAO19TO313

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Ref.No.	Part No.	Descriptio	on			Ref.No.	Part No.	Description		ON 2769
C519 C520	1-163-143-00	CERAMIC CH		10%	50V	CN301A	1-507-749-00	JACK, EXTENT	ION POWER	1-463-364-0 1-463-431-0
C521 C522	1-163-038-00 1-163-038-00 1-163-038-00	CERAMIC CH	IP 0.1MF		25V 25V 25V	CP301A	.1-464-378-11	CONVERTER UN	NIT, DC-DC	
						D1	8-719-921-11	DIODE HZZALL		
C523	1-135-088-21			20%	20V	D501	8-719-105-82			1-555-658-2
C524	1-135-088-21	TANTAL. CH		20%	20V	D502	8-719-100-03	DIODE 1S2839		3+701-618-0
C525	1-163-038-00	CERAMIC CH	IP 0.1MF		25V		OLYETHYLENE			3-701-624-0
C526	1-163-038-00	CERAMIC CH			25V	D503 D504	8-719-100-03 8-719-100-03	DIODE 1S2839 DIODE 1S2839	(03 (1))	3-760-008-1
C527	1-135-088-21	TANTAL. CH		20%	200	0504	8-719-100-03			
C528	1-163-038-00	CERAMIC CH		LUM	25V	0000	0-713-100-03			3-760-008-4
						D506	8-719-100-03	DIODE 15283	5	
C529	1-163-033-00		IP 0.022MF	10%	25V	D507	8-719-100-03	DIODE 1S283		
C530	1-163-033-00		IP 0.022MF	10%	25V	D508	8-719-100-03	DIODE 1S2835		3-795-748-2
C531	1-135-091-00	TANTAL. CH	IP 1MF	10%	16V					4-907-094-0
C532	1-163-033-00		IP 0.022MF	10%	25V	D509	8-719-100-03	DIODE 152839		4-907-095-0
C532	1-163-059-00	CERAMIC CH		10%	25V 50V	D510 D511	8-719-100-03	DIODE 152835		0-360-106-1
C534	1-163-021-00			10%	50V	0511	8-719-101-23	DIODE 155123	an shown r	
				100	501	D512	8-719-101-23	DIODE 1SS12	L (UK.E).	4-907-097-0
C535	1-163-033-00			10%	50V	D513	8-719-911-06			
C536	1-135-091-00			10%	16V	D514	8-719-100-03	(D-5:UP TO 5	SERIAL No.1	.04000)
C537	1-163-036-00) SERIAL No.						DIODE	152835
		CE	RAMIC CHIP	0.068MF	50V	D515	8-719-101-23	DIODE 1SS12		
C538	1 125 092 00	TANTAL CI		1.0%	051	D516	8-719-101-23	DIODE 1SS12		4-907-706-0
C601	1-135-083-00	CERAMIC CH		10%	25V	D601	8-719-101-23	DIODE 155123	S. 20. CU) 1	0-107-808-0
C602	1-163-101-00			5%	25V 50V	D602	8-719-923-65	DIODE VV122	E E /a m 4	4-908-703-0
C603	1-163-101-00			5%	50V	D801	8-719-100-03			
						D802	8-719-100-03			
C604	1-163-038-00	CERAMIC CH			25V	-				
C605	1-135-091-00	TANTAL. CH		10%	16V		8-719-101-58			
C606			IIP 0.022MF	10%	25V	D851	8-719-100-05		SERIAL No.1	
C607	1-123-617-00		10MF	20%	16V	1				
C608 C609	1-163-117-00			5%	50V		1-235-403-11			
	1-163-594-00			5%	50V	1	1-235-403-11		PASS	
C610	1-163-105-00			5%	50V	IC1	8-752-010-90	IC CX20109		
C611 C612	1-163-123-00 1-163-833-00			5%	50V	IC2	8-759-700-43	IC NJM4558M	-	
012	1-103-033-00	CERAMIC CH	11P 0.008MF		25V		8-759-908-16 8-759-745-64	IC TL072CPS IC NJM4560M		
C613	1-123-618-00	ELECT	22MF	20%	6.3V	10102	0-/39-/43-04	IC NJM4500M		
C614	1-163-022-00		IP 0.012MF	10%	50V	IC201	8-759-908-16	IC TL072CPS		
C615	1-163-021-00	CERAMIC CH	IP 0.01MF	10%	50V		8-759-745-64	IC NJM4560M		
						IC301	8-752-013-30	IC CX20133		
C616	1-163-038-00				25V	1				
C617 C618	1-123-646-00		33MF	20%	6.3V	IC302	8-759-103-25	IC UPD4053B		
	1-123-646-00		33MF	20%	6.3V	IC303 IC304	8-759-103-25 8-759-745-64	IC UPD4053B IC NJM4560M		
C801 C802	1-163-119-00 1-135-101-21			5%	50V	1				
C802	1-135-088-21	TANTAL. CH TANTAL. CH		20% 20%	6.3V 20V	IC305 IC501	8-759-700-40 8-752-010-80	IC NJM4560S IC CX20108		
C851	1-163-038-00		SERIAL No.				8-759-700-43	IC NJM4558M		
			RAMIC CHIP		25V					
C901	1-163-055-00	(D-5-11P TO	SERTAL NO	104000)		IC503 IC504	8-759-908-17 8-759-700-75	IC TL082CPS IC NJM2901M	A	
			RAMIC CHIP				8-759-700-75	IC NJM2901M		
C901	1-163-017-00	(D-5:SERIA	L No.104001	AND LATE	R,D-50)	IC506	8-759-908-81	IC MB3763PF		
			RAMIC CHIP							

by shading and mark A are Replace only with part

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

ELECTRICAL PARTS STAM ONIXOAS & VROZZEDOA

Sony Corporation

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Digitized in Heiloo the Netherlands

-59-

D-5/10-50

Ref.No.

8506

R520 R521 R522

R529

8532

R534

Ref.No.

R1

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R28 R29

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R31 R101

R102

R103 R104

R105

R106 R107

R108

R109 R110

R111

R112

R113

R114

R115 R116

ELECTRICAL PARTS 21949 JADISTO313 Description -728-21 INDUCTOR CHIP 10H -740-00 INDUCTOR CHIP 100H 00-940-815-1 -982-00 COIL, OSC (SW1) 2-801-1 PC BOARD ASSY, STATOR 0-102-1 MOTOR ASSY, SLED -915-11 LIQUID CRYSTAL MODULE 685-00 (UK)...LINK, IC -101-07 TRANSISTOR 2SB798 -901-05 TRANSISTOR DTA124EK -162-45 TRANSISTOR 2SB624-BV5 -130-03 TRANSISTOR 25K300 -800-36 TRANSISTOR 2SD1048X6 -800-36 TRANSISTOR 2SD1048X6 -130-03 TRANSISTOR 25K300 -800-36 TRANSISTOR 2SD1048X6 -800-36 TRANSISTOR 2SD1048X6 -101-07 TRANSISTOR 2SB798 -162-45 TRANSISTOR 258624-8V5-800-005-100-00 -162-45 TRANSISTOR 258624-8V5 800-815-1 MOR -199-92 TRANSISTOR 2SD999 -901-05 TRANSISTOR DTA124EK 0-actional action -901-00 TRANSISTOR DTC124EK 0-80-805-0008 -901-05 TRANSISTOR DTA124EK -800-36 TRANSISTOR 2SD1048X6 -800-36 TRANSISTOR 2SD1048X6 -800-36 TRANSISTOR 2SD1048X6 -800-36 TRANSISTOR 2SD1048X6

TRANSISTOR	2SD1048X6	
TRANSISTOR	DTA124EK 0-010-015-1	14
TRANSISTOR	2SD1048X6	15
		316
X8.0 91H.	TRANSISTOR 2SD1048X6	517
TRANSISTOR	2SD1048X6 -810-815-1	
TRANSISTOR	2SD1048X6	
TRANSISTOR	2SD1048X6	
TRANSISTOR	2SD1048X6	
TRANSISTOR	2SB624-BV5	
(D-5:UP TO	SERIAL No.104000)	124
(D-5:UP TO	SERIAL No.104000)	
	TRANSISTOR TRANSISTOR (D-5:UP TO TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR (D-5:UP TO (D-5:UP TO	TRANSISTOR 2SD1048X6 TRANSISTOR 2SD1048X6 TRANSISTOR 2SD1048X6 TRANSISTOR 2SD1048X6 TRANSISTOR 2SB624-BV5

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

1-216-049-00 1 1-216-105-00 1 1-216-109-00 1 1-216-109-00 1 1-216-109-00 1 1-216-104-00 1 1-216-076-00 1 1-216-076-00 1 1-216-073-00 1 1-216-073-00 1 1-216-102-00 1 1-216-102-00 1 1-216-102-00 1 1-216-102-00 1 1-216-102-00 1 1-216-102-00 1 1-216-073-00 1 1-216-073-00 1 1-216-073-00 1 1-216-049-00 1 1-216-049-00 1 1-216-049-00 1 1-216-057-00 1 1-216-057-00 1 1-216-043-00 1 1-216-043-00 1 1-216-056-00 1 1-216-060-00 1 1-216-060-00 1 1-216-060-00 1	METAL CH METAL CH	IP I IP 2 IP 1	1K 220K 330K 220K 200K 13K 13K 47K 2K 130K 150K 160K 160K 10K 10K 10K 10K 10K 10K	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	1/10W 1/10W 1/10W	Ref.No. R535 R536 R536 R537 R540 R541 R541 R542 R544 R545 R546 R546 R546 R546 R546 R546	Ref.No. R117 R118 R119 R120 R121 R122 R123 R124 R125 R126 R127 R128 R129 R130 R201 R202	1-216-073-00 1-216-017-00 1-216-065-00 1-216-085-00 1-216-085-00 1-216-033-00 1-216-097-00 1-216-058-00 1-216-330-11	METAL METAL METAL METAL METAL METAL METAL METAL METAL METAL METAL METAL METAL	CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	TAL TAL TAL TAL TAL TAL TAL TAL	4.3K 15K 4.3K 360 2.4K 220 10K 47 4.7K 33K 56 220 100K 2.4K	1% 1% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W
1-216-105-00 / 1-216-109-00 / 1-216-109-00 / 1-216-071-00 / 1-216-076-00 / 1-216-073-00 / 1-216-056-00 / 1-216-102-00 / 1-216-102-00 / 1-216-102-00 / 1-216-073-00 / 1-216-073-00 / 1-216-073-00 / 1-216-073-00 / 1-216-073-00 / 1-216-091-00 / 1-216-073-00 / 1-216-063-00 / 1-216-164-00 / 1-216-056-00 / 1-216-060-00 / 1-216-060-00 / 1-216-049-00 // 1-216-060-00 // 1-216-049-00 //	METAL CH METAL CH	IP 2 IP 3 IP 3 IP 2 IP 3 IP 4 <tr td=""></tr>	220K 330K 220K 200K 13K 8.2K 47K 2K 10K 130K 160K 680K 10K 10K 10K 10K 10K	5x 5x 5x 5x 5x 5x 5x 5x 5x 5x 5x 5x 5x 5	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	R536 R537 R537 R538 R538 R540 R541 R544 R544 R545 R545 R545 R549 R549	R118 R119 R120 R121 R122 R123 R124 R125 R126 R127 R128 R129 R130 R201	1-216-333-11 1-216-328-11 1-216-038-00 1-216-038-00 1-216-033-00 1-216-073-00 1-216-073-00 1-216-065-00 1-216-085-00 1-216-085-00 1-216-033-00 1-216-058-00 1-216-058-00 1-216-330-11	METAL METAL METAL METAL METAL METAL METAL METAL METAL METAL METAL METAL	CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	TAL TAL TAL TAL TAL TAL TAL	15K 4.3K 360 2.4K 220 10K 47 4.7K 33K 56 220 100K 2.4K	1% 1% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W
1-216-105-00 / 1-216-109-00 / 1-216-109-00 / 1-216-071-00 / 1-216-076-00 / 1-216-073-00 / 1-216-056-00 / 1-216-102-00 / 1-216-102-00 / 1-216-102-00 / 1-216-073-00 / 1-216-073-00 / 1-216-073-00 / 1-216-073-00 / 1-216-073-00 / 1-216-091-00 / 1-216-073-00 / 1-216-063-00 / 1-216-049-00 / 1-216-060-00 / 1-216-049-00 / 1-216-060-00 / 1-216-049-00 //	METAL CH METAL CH	IP 2 IP 3 IP 3 IP 2 IP 3 IP 4 <tr td=""></tr>	220K 330K 220K 200K 13K 8.2K 47K 2K 10K 130K 160K 680K 10K 10K 10K 10K 10K	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	R537 R538 R538 R540 R541 R541 R542 R543 R546 R545 R548 R549 R549	R119 R120 R121 R122 R123 R124 R125 R126 R127 R128 R129 R130 R201	1-216-328-11 1-216-038-00 1-216-033-00 1-216-073-00 1-216-073-00 1-216-065-00 1-216-085-00 1-216-085-00 1-216-085-00 1-216-033-00 1-216-058-00 1-216-330-11	METAL METAL METAL METAL METAL METAL METAL METAL METAL METAL METAL	CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	TAL TAL TAL TAL TAL TAL TAL TAL	4.3K 360 2.4K 220 10K 47 4.7K 33K 56 220 100K 2.4K	1% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W
1-216-109-00 / 1-216-105-00 / 1-216-071-00 / 1-216-076-00 / 1-216-076-00 / 1-216-056-00 / 1-216-100-00 / 1-216-102-00 / 1-216-102-00 / 1-216-102-00 / 1-216-073-00 / 1-216-073-00 / 1-216-049-00 / 1-216-049-00 / 1-216-057-00 / 1-216-049-00 / 1-216-164-00 / 1-216-056-00 / 1-216-060-00 / 1-216-049-00 / 1-216-049-00 / 1-216-049-00 / 1-216-049-00 / 1-216-056-00 // 1-216-060-00 // 1-216-049-00 //	METAL CH METAL CH	IP 3 IP 2	330K 220K 200K 13K 8.2K 47K 2K 10K 130K 160K 680K 10K 10K 10K 10K 10K 10K	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	R538 R539 R540 R541 R541 R542 R544 R545 R546 R548 R548 R548	R120 R121 R122 R123 R124 R125 R126 R127 R128 R129 R130 R201	1-216-038-00 1-216-033-00 1-216-073-00 1-216-073-00 1-216-065-00 1-216-085-00 1-216-085-00 1-216-085-00 1-216-033-00 1-216-058-00 1-216-058-00 1-216-330-11	METAL METAL METAL METAL METAL METAL METAL METAL METAL METAL	CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	TAL TAL TAL TAL TAL TAL TAL TAL TAL	360 2.4K 220 10K 47 4.7K 33K 56 220 100K 2.4K	5% 5% 5% 5% 5% 5% 5% 5% 5%	- 1/10W - 1/10W - 1/10W - 1/10W - 1/10W - 1/10W - 1/10W - 1/10W - 1/10W - 1/10W
1-216-105-00 / 1-216-104-00 / 1-216-076-00 / 1-216-089-00 / 1-216-056-00 / 1-216-102-00 / 1-216-102-00 / 1-216-102-00 / 1-216-102-00 / 1-216-1073-00 / 1-216-073-00 / 1-216-049-00 / 1-216-091-00 / 1-216-057-00 / 1-216-057-00 / 1-216-164-00 / 1-216-164-00 / 1-216-056-00 / 1-216-060-00 / 1-216-049-00 // 1-216-049-00 //	METAL CH METAL CH	IP 2 IP 3 IP 3 IP 3 IP 4 IP 4 <tr t=""></tr>	220K 200K 13K 8.2K 47K 2K 10K 130K 160K 10K 10K 10K 10K 10K 11K 56K	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	R538 R539 R540 R541 R541 R542 R544 R545 R546 R548 R548 R548	R120 R121 R122 R123 R124 R125 R126 R127 R128 R129 R130 R201	1-216-038-00 1-216-033-00 1-216-073-00 1-216-073-00 1-216-065-00 1-216-085-00 1-216-085-00 1-216-085-00 1-216-033-00 1-216-058-00 1-216-058-00 1-216-330-11	METAL METAL METAL METAL METAL METAL METAL METAL METAL METAL	CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	TAL TAL TAL TAL TAL TAL TAL TAL TAL	360 2.4K 220 10K 47 4.7K 33K 56 220 100K 2.4K	5% 5% 5% 5% 5% 5% 5% 5% 5%	- 1/10W - 1/10W - 1/10W - 1/10W - 1/10W - 1/10W - 1/10W - 1/10W - 1/10W - 1/10W
1-216-104-00 / 1-216-076-00 / 1-216-076-00 / 1-216-089-00 / 1-216-056-00 / 1-216-102-00 / 1-216-102-00 / 1-216-102-00 / 1-216-073-00 / 1-216-073-00 / 1-216-073-00 / 1-216-091-00 / 1-216-091-00 / 1-216-057-00 / 1-216-057-00 / 1-216-164-00 / 1-216-164-00 / 1-216-056-00 / 1-216-060-00 / 1-216-049-00 / 1-216-060-00 / 1-216-049-00 // 1-216-049-00 //	METAL CH METAL CH	IP 2	220K 200K 13K 8.2K 47K 2K 10K 130K 160K 680K 10K 10K 10K 10K 11K 56K	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	8539 8540 8541 8542 8543 8544 8546 8546 8546 8548	R121 R122 R123 R124 R125 R126 R127 R128 R129 R130 R201	1-216-058-00 1-216-033-00 1-216-073-00 1-216-065-00 1-216-085-00 1-216-085-00 1-216-085-00 1-216-033-00 1-216-097-00 1-216-058-00 1-216-330-11	METAL METAL METAL METAL METAL METAL METAL METAL METAL	CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	TAL TAL TAL TAL TAL TAL TAL	2.4K 220 10K 47 4.7K 33K 56 220 100K 2.4K	5% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W
1-216-104-00 / 1-216-076-00 / 1-216-076-00 / 1-216-089-00 / 1-216-056-00 / 1-216-102-00 / 1-216-102-00 / 1-216-102-00 / 1-216-073-00 / 1-216-073-00 / 1-216-073-00 / 1-216-091-00 / 1-216-091-00 / 1-216-057-00 / 1-216-057-00 / 1-216-164-00 / 1-216-164-00 / 1-216-056-00 / 1-216-060-00 / 1-216-049-00 / 1-216-060-00 / 1-216-049-00 // 1-216-049-00 //	METAL CH METAL CH	IP 2 IP 1 IP 2	200K 13K 8.2K 47K 2K 10K 130K 160K 680K 10K 10K 10K 1K 1K 56K	5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	8540 8541 8541 8542 8544 8544 8545 8546 8547 8548 8549	R122 R123 R124 R125 R126 R127 R128 R129 R130 R201	1-216-033-00 1-216-073-00 1-216-065-00 1-216-085-00 1-216-085-00 1-216-085-00 1-216-033-00 1-216-097-00 1-216-058-00 1-216-330-11	METAL METAL METAL METAL METAL METAL METAL METAL	CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	TAL TAL TAL TAL TAL TAL	220 10K 47 4.7K 33K 56 220 100K 2.4K	5% 5% 5% 5% 5% 5% 5% 5%	- 1/10W - 1/10W - 1/10W - 1/10W - 1/10W - 1/10W - 1/10W - 1/10W
1-216-076-00 1 1-216-071-00 1 1-216-089-00 1 1-216-056-00 1 1-216-100-00 1 1-216-102-00 1 1-216-102-00 1 1-216-073-00 1 1-216-073-00 1 1-216-049-00 1 1-216-049-00 1 1-216-073-00 1 1-216-073-00 1 1-216-073-00 1 1-216-063-00 1 1-216-164-00 1 1-216-056-00 1 1-216-060-00 1 1-216-049-00 1	METAL CH METAL CH	IP 1 IP 8 IP 2 IP 2 IP 2 IP 1	13K 8.2K 47K 2K 10K 130K 160K 680K 10K 10K 1K 1K 56K	5% 5% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	8540 8541 8541 8542 8544 8544 8545 8546 8547 8548 8549	R122 R123 R124 R125 R126 R127 R128 R129 R130 R201	1-216-033-00 1-216-073-00 1-216-065-00 1-216-085-00 1-216-085-00 1-216-085-00 1-216-033-00 1-216-097-00 1-216-058-00 1-216-330-11	METAL METAL METAL METAL METAL METAL METAL METAL	CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	TAL TAL TAL TAL TAL TAL	220 10K 47 4.7K 33K 56 220 100K 2.4K	5% 5% 5% 5% 5% 5% 5% 5%	- 1/10W - 1/10W - 1/10W - 1/10W - 1/10W - 1/10W - 1/10W - 1/10W
1-216-071-00 / 1-216-089-00 / 1-216-056-00 / 1-216-100-00 / 1-216-102-00 / 1-216-102-00 / 1-216-073-00 / 1-216-073-00 / 1-216-049-00 / 1-216-049-00 / 1-216-073-00 / 1-216-063-00 / 1-216-057-00 / 1-216-164-00 / 1-216-164-00 / 1-216-056-00 / 1-216-060-00 / 1-216-049-00 / 1-216-049-00 // 1-216-049-00 //	METAL CH METAL CH	IP 8 IP 2 IP 2 IP 2 IP 2 IP 1	8.2K 47K 2K 10K 130K 160K 680K 10K 10K 1K 1K 1K 56K	5% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	R541 R542 R542 R544 R544 R545 R546 R548 R549	R123 R124 R125 R126 R127 R128 R129 R130 R201	1-216-073-00 1-216-017-00 1-216-065-00 1-216-085-00 1-216-085-00 1-216-033-00 1-216-097-00 1-216-058-00 1-216-330-11	METAL METAL METAL METAL METAL METAL METAL METAL	CHIP CHIP CHIP CHIP CHIP CHIP CHIP CHIP	TAL TAL TAL TAL TAL TAL	10K 47 4.7K 33K 56 220 100K 2.4K	5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W
1-216-089-00 1-216-056-00 1-216-073-00 1-216-102-00 1-216-102-00 1-216-073-00 1-216-073-00 1-216-073-00 1-216-091-00 1-216-091-00 1-216-073-00 1-216-063-00 1-216-057-00 1-216-043-00 1-216-164-00 1-216-056-00 1-216-060-00 1-216-069-00 1-216-049-00	METAL CH METAL CH	IP 8 IP 2	8.2K 47K 2K 10K 130K 160K 680K 10K 10K 1K 1K 1K 56K	5% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	R542 R543 R544 R544 R545 R546 R547 R548	R124 R125 R126 R127 R128 R129 R130 R201	1-216-017-00 1-216-065-00 1-216-085-00 1-216-085-00 1-216-033-00 1-216-097-00 1-216-058-00 1-216-330-11	METAL METAL METAL METAL METAL METAL METAL	CHIP CHIP CHIP CHIP CHIP CHIP CHIP	TAL TAL TAL TAL TAL	47 4.7K 33K 56 220 100K 2.4K	5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W
1-216-089-00 1-216-056-00 1-216-073-00 1-216-102-00 1-216-102-00 1-216-073-00 1-216-073-00 1-216-073-00 1-216-091-00 1-216-091-00 1-216-073-00 1-216-063-00 1-216-057-00 1-216-043-00 1-216-164-00 1-216-056-00 1-216-060-00 1-216-069-00 1-216-049-00	METAL CH METAL CH	IP 2 IP 2 IP 2 IP 1	47K 2K 10K 130K 160K 680K 10K 10K 1K 1K 1K 56K	5% 5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	8543 8544 8546 8546 8546 8547 8548 8549	R125 R126 R127 R128 R129 R130 R201	1-216-065-00 1-216-085-00 1-216-168-00 1-216-033-00 1-216-097-00 1-216-058-00 1-216-330-11	METAL METAL METAL METAL METAL METAL	CHIP CHIP CHIP CHIP CHIP CHIP CHIP	TAL TAL TAL TAL TAL TAL	4.7K 33K 56 220 100K 2.4K	5% 5% 5% 5% 5%	1/10W 1/10W 1/8W 1/10W 1/10W 1/10W
1-216-056-00 1 1-216-073-00 1 1-216-102-00 1 1-216-102-00 1 1-216-073-00 1 1-216-073-00 1 1-216-073-00 1 1-216-049-00 1 1-216-091-00 1 1-216-091-00 1 1-216-073-00 1 1-216-057-00 1 1-216-043-00 1 1-216-164-00 1 1-216-056-00 1 1-216-060-00 1 1-216-049-00 1	METAL CH METAL CH	IP 2 IP 1 IP 1 IP 2 IP 2 IP 2 IP 2 IP 2 IP 2 IP 2 IP 2	2K 10K 130K 160K 680K 10K 10K 1K 1K 1K 56K	5% 5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	8543 8544 8546 8546 8546 8547 8548 8549	R125 R126 R127 R128 R129 R130 R201	1-216-065-00 1-216-085-00 1-216-168-00 1-216-033-00 1-216-097-00 1-216-058-00 1-216-330-11	METAL METAL METAL METAL METAL METAL	CHIP CHIP CHIP CHIP CHIP CHIP CHIP	TAL TAL TAL TAL TAL TAL	4.7K 33K 56 220 100K 2.4K	5% 5% 5% 5% 5%	1/10W 1/10W 1/8W 1/10W 1/10W 1/10W
1-216-073-00 / 1-216-100-00 / 1-216-102-00 / 1-216-073-00 / 1-216-073-00 / 1-216-049-00 / 1-216-049-00 / 1-216-091-00 / 1-216-073-00 / 1-216-073-00 / 1-216-063-00 / 1-216-043-00 / 1-216-164-00 / 1-216-056-00 / 1-216-060-00 / 1-216-049-00 // 1-216-049-00 // 1-216-049-00 //	METAL CH METAL CH	IP I IP I IP I IP I IP I IP I IP I IP I	10K 130K 160K 680K 10K 10K 1K 1K 1K 56K	5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	R544 R545 R546 R547 R548 R548	R126 R127 R128 R129 R130 R201	1-216-085-00 1-216-168-00 1-216-033-00 1-216-097-00 1-216-058-00 1-216-330-11	METAL METAL METAL METAL METAL	CHIP CHIP CHIP CHIP CHIP CHIP	TAL TAL TAL TAL TAL	33K 56 220 100K 2.4K	5% 5% 5% 5%	1/10W 1/8W 1/10W 1/10W
1-216-100-00 1-216-102-00 1-216-073-00 1-216-073-00 1-216-073-00 1-216-049-00 1-216-091-00 1-216-091-00 1-216-073-00 1-216-063-00 1-216-043-00 1-216-164-00 1-216-164-00 1-216-056-00 1-216-060-00 1-216-049-00	METAL CH METAL CH	IP 1 IP 1 IP 1 IP 1 IP 1 IP 1 IP 1 IP 1	10K 130K 160K 680K 10K 10K 1K 1K 56K	5% 5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	R545 R546 R547 R547 R548 R549	R127 R128 R129 R130 R201	1-216-168-00 1-216-033-00 1-216-097-00 1-216-058-00 1-216-330-11	METAL METAL METAL METAL METAL	CHIP CHIP CHIP CHIP CHIP	TAL TAL TAL TAL	56 220 100K 2.4K	5% 5% 5%	1/8W 1/10W 1/10W
1-216-100-00 1-216-102-00 1-216-073-00 1-216-073-00 1-216-073-00 1-216-049-00 1-216-091-00 1-216-091-00 1-216-073-00 1-216-063-00 1-216-043-00 1-216-164-00 1-216-164-00 1-216-056-00 1-216-060-00 1-216-049-00	METAL CH METAL CH	IP I IP I IP I IP I IP I IP I IP I IP I	130K 160K 680K 10K 10K 1K 1K 56K	5% 5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	8546 8547 8548 8549	R128 R129 R130 R201	1-216-033-00 1-216-097-00 1-216-058-00 1-216-330-11	METAL METAL METAL METAL	CHIP CHIP CHIP CHIP	TAL TAL TAL TAL	220 100K 2.4K	5% 5% 5%	1/10W
1-216-102-00 1 1-216-073-00 1 1-216-073-00 1 1-216-073-00 1 1-216-049-00 1 1-216-091-00 1 1-216-091-00 1 1-216-073-00 1 1-216-063-00 1 1-216-057-00 1 1-216-164-00 1 1-216-164-00 1 1-216-056-00 1 1-216-060-00 1 1-216-049-00 1	METAL CH METAL CH METAL CH METAL CH METAL CH METAL CH METAL CH METAL CH METAL CH METAL CH	IP IP IP IP IP IP IP IP IP	160K 680K 10K 10K 1K 1K 56K	5% 5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/10W	8546 8547 8548 8549	R128 R129 R130 R201	1-216-033-00 1-216-097-00 1-216-058-00 1-216-330-11	METAL METAL METAL METAL	CHIP CHIP CHIP CHIP	TAL TAL TAL TAL	220 100K 2.4K	5% 5% 5%	1/10W
1-216-117-00 1-216-073-00 1-216-073-00 1-216-049-00 1-216-049-00 1-216-091-00 1-216-073-00 1-216-073-00 1-216-063-00 1-216-043-00 1-216-164-00 1-216-164-00 1-216-056-00 1-216-060-00 1-216-049-00	METAL CH METAL CH METAL CH METAL CH METAL CH METAL CH METAL CH METAL CH METAL CH	IP (IP IP I	680K 10K 10K 1K 1K 56K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	R547 R548 R549	R129 R130 R201	1-216-097-00 1-216-058-00 1-216-330-11	METAL METAL METAL	CHIP CHIP CHIP	TAL TAL TAL	100K 2.4K	5%	0-01/10W
1-216-073-00 1-216-073-00 1-216-049-00 1-216-049-00 1-216-091-00 1-216-073-00 1-216-063-00 1-216-063-00 1-216-043-00 1-216-164-00 1-216-164-00 1-216-056-00 1-216-060-00 1-216-049-00	METAL CH METAL CH METAL CH METAL CH METAL CH METAL CH METAL CH METAL CH	IP I IP I IP I IP I IP I IP I IP I IP I	10K 10K 1K 1K 56K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	R548 R549	R130 R201	1-216-058-00 1-216-330-11	METAL	CHIP CHIP	TAL TAL	2.4K	5%	0-01/10W
1-216-073-00 1-216-073-00 1-216-049-00 1-216-049-00 1-216-091-00 1-216-073-00 1-216-063-00 1-216-063-00 1-216-043-00 1-216-164-00 1-216-164-00 1-216-056-00 1-216-060-00 1-216-049-00	METAL CH METAL CH METAL CH METAL CH METAL CH METAL CH METAL CH METAL CH	IP IP IP IP IP IP IP	10K 10K 1K 1K 56K	5% 5% 5%	1/10W 1/10W 1/10W	R549	R201	1-216-330-11	METAL	CHIP	JAT			
1-216-073-00 1-216-073-00 1-216-049-00 1-216-049-00 1-216-091-00 1-216-073-00 1-216-063-00 1-216-063-00 1-216-043-00 1-216-164-00 1-216-164-00 1-216-056-00 1-216-060-00 1-216-049-00	METAL CH METAL CH METAL CH METAL CH METAL CH METAL CH METAL CH METAL CH	IP IP IP IP IP IP IP	10K 10K 1K 1K 56K	5% 5% 5%	1/10W 1/10W 1/10W	R549	R201	1-216-330-11	METAL	CHIP	JAT			
1-216-073-00 1-216-049-00 1-216-091-00 1-216-091-00 1-216-073-00 1-216-063-00 1-216-063-00 1-216-043-00 1-216-164-00 1-216-164-00 1-216-056-00 1-216-060-00 1-216-049-00	METAL CH METAL CH METAL CH METAL CH METAL CH METAL CH METAL CH	IP IP IP IP IP IP	10K 1K 1K 56K	5% 5% 5%	1/10W 1/10W		R201	1-216-330-11	METAL	CHIP	JAT			
1-216-049-00 1-216-049-00 1-216-091-00 1-216-073-00 1-216-073-00 1-216-063-00 1-216-043-00 1-216-164-00 1-216-164-00 1-216-056-00 1-216-060-00 1-216-049-00	METAL CH METAL CH METAL CH METAL CH METAL CH METAL CH METAL CH	IP IP IP IP IP	1K 1K 56K	5% 5%	1/10W									I/IUW
1-216-049-00 1-216-091-00 1-216-073-00 1-216-073-00 1-216-063-00 1-216-043-00 1-216-164-00 1-216-164-00 1-216-097-00 1-216-056-00 1-216-060-00 1-216-049-00	METAL CH METAL CH METAL CH METAL CH METAL CH METAL CH	IP IP IP IP	1K 1K 56K	5% 5%				1-216-333-11	INC I AL	CHIP				0-1/10W
1-216-049-00 1-216-091-00 1-216-073-00 1-216-073-00 1-216-063-00 1-216-043-00 1-216-164-00 1-216-164-00 1-216-097-00 1-216-056-00 1-216-060-00 1-216-049-00	METAL CH METAL CH METAL CH METAL CH METAL CH METAL CH	IP IP IP IP	1K 56K	5%			1							-/
1-216-091-00 1-216-129-00 1-216-073-00 1-216-063-00 1-216-043-00 1-216-164-00 1-216-164-00 1-216-097-00 1-216-056-00 1-216-060-00 1-216-049-00	METAL CH METAL CH METAL CH METAL CH METAL CH	IP JATE	56K			R551	R203	1-216-333-11	METAL	CHIP		15K	19	0-01/10W
1-216-129-00 1-216-073-00 1-216-063-00 1-216-043-00 1-216-164-00 1-216-164-00 1-216-097-00 1-216-056-00 1-216-060-00 1-216-049-00	METAL CH METAL CH METAL CH METAL CH	IP JAT	IO ME		1/10W	8552	R204	1-216-333-11						1/10W
1-216-073-00 1-216-063-00 1-216-043-00 1-216-164-00 1-216-164-00 1-216-097-00 1-216-056-00 1-216-060-00 1-216-049-00	METAL CH METAL CH METAL CH	IP JAT	-2011	G-00L	1/104	RSS3		1-216-329-11						1/10W
1-216-073-00 1-216-063-00 1-216-043-00 1-216-164-00 1-216-164-00 1-216-097-00 1-216-056-00 1-216-060-00 1-216-049-00	METAL CH METAL CH METAL CH	IP JAT	6.0	20. 9.9.9.9.	1/104	www.	R205	1-210-329-11	METAL	CHIP		3.1K	1,6	1/104
1-216-063-00 1-216-057-00 1-216-043-00 1-216-164-00 1-216-097-00 1-216-056-00 1-216-060-00 1-216-049-00	METAL CH			5%	1/10W	8554	0000	1 016 006 11	WETAL	CHIP	IAT	ATU		0-1/10W
1-216-057-00 1-216-043-00 1-216-164-00 1-216-097-00 1-216-056-00 1-216-060-00 1-216-049-00	METAL CH	IP	10K		1/10W	R555	R206	1-216-336-11						
1-216-043-00 1-216-164-00 1-216-097-00 1-216-056-00 1-216-060-00 1-216-049-00			3.9K	5%	1/10W		R207	1-216-336-11	METAL					-1/10W
1-216-043-00 1-216-164-00 1-216-097-00 1-216-056-00 1-216-060-00 1-216-049-00		nu Jan	302 01	0-090-	-013-1	R556	R208	1-216-334-11	METAL	CHIP		22K	1%	1/10W
1-216-164-00 1-216-097-00 1-216-097-00 1-216-056-00 1-216-060-00 1-216-049-00			2.2K	5%	1/10W			*** (000P01.0N	JERIAL	11 40	120-		81-0	
1-216-164-00 1-216-097-00 1-216-056-00 1-216-060-00 1-216-049-00	METAL CH		560		1/10W		R209	1-216-329-11	METAL			5.1K	1%	1/10W
1-216-097-00 1-216-056-00 1-216-060-00 1-216-049-00	METAL CH	IP IAT:	39 0		1/8W	8888		1-216-336-11		CHIP				0-01/10W
1-216-097-00 1-216-056-00 1-216-060-00 1-216-049-00	1.9 47			0-580-	1-216-		R211	1-216-336-11	METAL	CHIP		47K	1%	1/10W
1-216-056-00 1-216-060-00 1-216-049-00	METAL CH	IP :	39	5%	1/8W									
1-216-060-00 1-216-049-00	METAL CH	IP I	100K	5%	1/10W		R212	1-216-334-11	METAL	CHIP		22K	1%	- 1/10W
1-216-049-00	METAL CH	IP :	2K 0	5% 0-	-1/10W		R213	1-216-327-11	METAL	CHIP	JAT	2K	1%	1/10W
1-216-049-00	101 91		1 ME	1-452-	1-216-	8562	R214	1-216-327-11	METAL	CHIP		2K	1%	1-1/10W
	METAL CH	IP :	3K	5%	1/10W									
	METAL CH	IP	1K	5%	1/10W		R215	1-216-326-11	METAL	CHIP		1.8K	1%	1/10W
1-216-330-11	METAL CH	IP	7.5K	1%	1/10W		R216	1-216-333-11	METAL	CHIP		15K	1%	0-31/10W
IK 1% 1/10k	19 10	TAL CH		324-1	1-216-	R565	R217	1-216-328-11	METAL	CHIP	JAT	4.3K	01%	0-01/10W
1-216-333-11	METAL CH	IP	15K	1%	1/10W		1							
	METAL CH				- 1/10W		R218	1-216-333-11	METAL	CHIP	JAT	15K	12	1/10W
	METAL CH				1/10W			1-216-328-11						0-01/10W
1-210-333-11	WI QI	TAL CH			1-216-	. 8568	R220	1-216-038-00						- 1/10W
1-216-329-11	METAL CH		5.1K		1/10W		I MELO	1-210-000-00	The True	onti		500		1/104
	METAL CH				- 1/10W		R221	1-216-058-00	METAL	CUTD	TAT	2.4K	64	0-01710W
							R222	1-216-033-00	METAL			220		0-01/10W
1-216-336-11	METAL CH	HD JAT		0-101-0	1/10W	REZI								
1 010 004 11	METAL OU						R223	1-216-073-00	METAL	CHIP	344	10K	5%	0-01/10W
	METAL CH		22K	1%	1/10W		0000		-		147			-
	METAL CH				1/10W		R224	1-216-017-00		and the second second				
1-216-336-11	METAL CH				-01/10W		R225	1-216-065-00						1/10W
5% 1/1UM	AI 41	TAL CH		0-640-0		R574	R226	1-216-085-00	METAL	CHIP	JAT	33K	5%	0-01/10W
	METAL CH		47K	1%	1/10W			The same of the same of the						
	METAL CH				1/10W		R227	1-216-168-00	METAL		JAL	56	5%	1/8W
1-216-327-11	METAL CH						R228	1-216-033-00	METAL			220		0-01/10W
K 5% 1/10%	19 20	NO JAT.	O ME		1-216-	R577	R229	1-216-097-00	METAL	CHIP	JAT	100K	5%	- 1/10W
1-216-327-11	METAL CH	IP	2K	1%	1/10W									
1-216-326-11		IP JAT	1.8K		1/10W	8578	R230	1-216-058-00	METAL	CHIP	LAT	2.4K	5%	- 1/10W
1-216-333-11	METAL CH	TP IAT	15K 0	01%	1/10W	R579	R301	1-216-025-00	METAL	CHIP		100	5%	0-01/10W
5% 1/10W	METAL CH				1-216-	8580		1-216-045-00						



	ELECTRIC	CAL PARTS STRAY LA				ELECTRIC	AL PARTS STRAS JAD	ELECTRI	
Ref.No.	Part No.	Description 19890	.oH 1159	Ref.No.	Ref.No.	Part No.	Description apage	f.No. Part No.	
R303 R304 R305 R306	1-216-073-00 1-216-089-00	METAL CHIP 51K METAL CHIP 10K METAL CHIP 47K METAL CHIP 2K	5% - 1/10W 5% - 1/10W	R117 R118 R118 R119 R120	R536 R537 R538	1-216-049-00 1-216-049-00 1-216-057-00		5% 1/10W 5% 1/10W 5% 1/10W	
R307 R308 R309	1-216-065-00	METAL CHIP 4.7K METAL CHIP 4.7K METAL CHIP 47K	005% 0-31/10W	R121 R122 R123 R123	R539 R540 R541		METAL CHIP 2.2K METAL CHIP 1K METAL CHIP 1K	5% 1/10W 5% 1/10W 5% 1/10W	
R310 R311 R501		METAL CHIP 4.7K METAL CHIP 22K	5% _ 1/10W 5% _ 1/10W	R124 R125 R126	R543 R544	1-216-335-11 1-216-332-11	METAL CHIP 10K	1% 1/10W 1% 1/10W	
R504	1-216-089-00	METAL CHIP 220K METAL CHIP 47K	5% 1/10W 5% 1/10W	8127 8128 8129 8129	R546 R547	1-216-065-00 1-216-324-11	METAL CHIP 680	5% 1/10W 1% 1/10W	
R507		METAL CHIP 1.8K METAL CHIP 100K		R130 R201 R202	R549 R550	1-216-324-11 1-216-331-11	METAL CHIP IK	1% 0-1/10W 1% 1/10W 20-240-315-1 819	
R510	1-216-093-00 1-216-085-00	METAL CHIP 20K METAL CHIP 68K METAL CHIP 33K	5% 1/10W 5% 1/10W	R203 R204 R205	R552 R553	1-216-100-00	METAL CHIP 110K METAL CHIP 130K	1% 1/10W 5% 1/10W	
	1-216-095-00 1-216-081-00	METAL CHIP 47K METAL CHIP 82K (D-5:UP TO SERIAL	5% 1/10W No.104000)	R206 R207 R208	R555 R556	1-216-075-00 1-216-060-00	METAL CHIP 47K METAL CHIP 12K METAL CHIP 3K METAL CHIP 22K	5% 1/10W 5% 1/10W	
R513 R514	1-216-080-00	(D-5:SERIAL No.104 METAL CHIP	20K 81 5%	1/1ÓW	R558 R559	1-216-089-00 1-216-089-00	METAL CHIP 47K METAL CHIP 47K	5% 1/10W 5% 1/10W	
R515 R516	1-216-063-00 1-216-063-00 1-216-121-00	METAL CHIP 22K METAL CHIP 3.9K METAL CHIP 1M METAL CHIP 2K	5% 1/10W 5% 1/10W	R212 R213 R214 R214 R215	R561 R562	1-216-041-00 1-216-324-11	METAL CHIP 470 METAL CHIP 10K	5% 1/10W 1% 1/10W	
R518	1-216-091-00	METAL CHIP 56K METAL CHIP 10K	5% 1/10W	R216 R216 R217	R564 R565	1-216-332-11 1-216-324-11	METAL CHIP 11K METAL CHIP 10K	1% 1/10W 1% 1/10W	
R521	1-216-073-00 1-216-073-00		5% 1/10W 5% 1/10W	R219	R567 R568	1-216-049-00 1-216-049-00	METAL CHIP 1K METAL CHIP 1K	5% 1/10W 5% 1/10W	
R524 R525	1-216-067-00 1-216-089-00		5% 1/10W 5% 1/10W	R222 R223	R570 R571	1-216-107-00 1-216-104-00	METAL CHIP 270K METAL CHIP 200K	5% 1/10W 5% 1/10W	
R527 R528	1-216-077-00 1-216-065-00	METAL CHIP 15K METAL CHIP 4.7K	5% 1/10W 5% 1/10W	R225 R226	R573 R574	1-216-102-00 1-216-049-00	METAL CHIP 160K METAL CHIP 1K	5% 1/10W 5% 1/10W	
R529 R530 R531	1-216-331-00	METAL CHIP 10K METAL CHIP 9.1K	5% 1/10W 1% 1/10W	R227 R228 R228 R229	R576 R577	1-216-080-00 1-216-080-00		5% 1/10W	
R532 R533 R534	1-216-065-00	METAL CHIP 2K METAL CHIP 4.7K METAL CHIP 200K	5% 0-01/10W	R230 R301 R302				5% 1/10W 5% 1/10W 5% 1/10W	

Ref.No.	Part No.	Description more	Part No.	.oH. Tal Ref.No.	Part
R581	1-216-049-00	METAL CHIP 1K	5% -1/10W	100. R628	1-216
R582			5% 1/10W	S0aJ R629	1-216
R583		METAL CHIP 1K		200J R630	1-216
R584	1-216-077-00		5% 1/10W	NOSO	1-210
		PC BOARD ASSY, STAT	X-2622-801-1	10em R631	1-216
R585	1-216-097-00	METAL CHIP 100K	5% 1/10W	SORM R632	1-216
R586	1-216-080-00	METAL CHIP 20K	5% 1/10W	R633	1-216
R587	1-216-089-00	METAL CHIP 47K	5% 1/10W	10601	
R588	1 216 002 00	METAL CHIP 27K	F# 1/101	R700	1-216
R589	1-216-121-00		5% 1/10W 5% 1/10W	R801 R802	1-216
R590	1-216-073-00	(D-5:UP TO SERIAL M		10	1-210
		METAL CHIP 10K	5% 1/10W	S0 R803	1-216
			8-729-162-45	80 R804	1-216
R591	1-216-073-00		5% 1/10W	R806	1-216
R592	1-216-073-00	METAL CHIP 10K	5% 1/10W	0101	278F
R593		(D-5:UP TO SERIAL N			1-216
		METAL CHIP 10K	5%08-1/10W	8088 Q103	1-216
R595	1-216-097-00	METAL CHIP 100K	5% 1/10W	1050 R809	1-216
R597		METAL CHIP 100K		\$0\$0	1-210
R598		METAL CHIP 200K		2050 R809	1-216
				1/8W	5%
R599		METAL CHIP 200K		0301	
R601		METAL CHIP 4.7K		\$000 R851	1-216
R602	1-216-059-00	METAL CHIP 2.7K	5% 1/10W	0303	1 047
R603	1-216-338-00	METAL CHIP 30K	14 1/10W	AGEO R901	1-247
R604		METAL CHIP 30K		2020 RV1	1-230
R605		METAL CHIP 9.1K		BOCO RV2	1-230
				RV301	1-230
R606		METAL CHIP 13K			LATER,
R607		METAL CHIP 33K		8020 RV501	1-230
R608	1-216-049-00	METAL CHIP 1K	5% 1/10W	RV502	
0.500	1 216 007 00			RV503 RV504	
R609 R610		METAL CHIP 100K METAL CHIP 100K		RV504	1-230
R611		METAL CHIP 4.3K		S801	1-553
NOIL	1-210-004-00	TILITAL UTILI T.JK	J/ 104	Transferrence of the second se	1-507
R612	1-216-097-00	METAL CHIP 100K	5% 1/10W	A020 \$902	1-553
R613	1-216-121-00	METAL CHIP 1M	5% 1/10W	1/10W 0505	38
R614	1-216-078-00	METAL CHIP 16K	5% 1/10W	8080 \$903	1-553
	1 010 000 00				1-554
R615		METAL CHIP 2K		\$905	1-554
R616 R617		METAL CHIP 6.8K METAL CHIP 6.8K		S080 S906	1-554
NOIT	1-210-003-00	HEINE CHIP 0.0K	5% 1/10W	\$907	1-554
R618	1-216-078-00	METAL CHIP 16K	5% 1/10W		1-554
R619	1-216-098-00	METAL CHIP 110K	5% 1/10W		1-554
R620	1-216-075-00	METAL CHIP 12K	5% 1/10W	0601	(0
R621	1-216.074.00	METAL CHID	59 00 1/100	X301 X601	1-527
R622		METAL CHIP 11K METAL CHIP 10K		\$030 X601	1-567
R623		METAL CHIP 1.5K		1/10W 0801	0)
R624			5% 02 1/10W	1/10W 0802	22
R625	1-216-089-00		5% 1/10W	0000	
R626 R627	1-216-081-00		5% 1/10W	1/10W	10) 5%
KOZ/	1-210-009-00	ALTAL ONIP 4/K	5% 1/10W		(0)
				1/10W	25

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

—63— Digitized in Heiloo the Netherlands

-62-

D-5/D-50 D-5/D-50

11/19/2023

Ref.No, Part No. Description

ELECTRIC	ELECTRICAL PARTS STRAY LA	
Part No.	Description Description	.oK.19
1-216-047-00 1-216-037-00 1-216-018-00	METAL CHIP 820 5% 1/10W METAL CHIP 330 5% 1/10W METAL CHIP 51 5% 1/10W	10507 10508 10509
1-216-073-00 1-216-080-00 1-216-065-00	METAL CHIP 10K 5% 1/10W METAL CHIP 20K 5% 1/10W METAL CHIP 20K 5% 1/10W METAL CHIP 4.7K 5% 1/10W	10601 10602 10603
1-216-097-00 1-216-073-00 1-216-073-00	METAL CHIP 100K 5% 1/10W METAL CHIP 10K 5% 1/10W METAL CHIP 10K 5% 1/10W	10604 10801 10802
1-216-073-00 1-216-073-00 1-216-085-00	METAL CHIP 10K 5% 1/10W	1C851 1C852
1-216-085-00 1-216-085-00		
1-216-073-00	(D-5:UP TO SERIAL No.104000) METAL CHIP 10K 5% 1/10W	1301 1302
1-216-331-00	(D-5:SERIAL No.104001 AND LATER, METAL CHIP 9.1K 1%	1/10W
1-216-073-00	(D-5:UP TO SERIAL No.104000) METAL CHIP 10K 5% 1/10W	JR2 JR3
1-230-518-11 1-230-518-11 1-230-260-00	RES, ADJ, METAL GLAZE 220K RES, ADJ, METAL GLAZE 220K RES, VAR, CARBON 10K/10K (VOLUME	38302
1-230-516-11 1-230-517-11 1-230-515-11 1-230-517-11	RES, ADJ, METAL GLAZE 10K RES, ADJ, METAL GLAZE 22K RES, ADJ, METAL GLAZE 2.2K RES, ADJ, METAL GLAZE 22K	JR303 JR304 JR502
1-553-510-00 .1-507-956-11 1-553-682-21	SWITCH, SLIDE (POWER) JACK (LASER ON) SWITCH, LEAF (OPEN/CLOSE)	JR601 JR602
1-553-198-00 1-554-371-00 1-554-371-00	SWITCH, LEAF (LIMIT) SWITCH, TACT (REMAIN) SWITCH, TACT (MODE)	JR851
1-554-371-00 1-554-371-00	SWITCH, TACT (PLAY/PAUSE)	
1-554-371-00 1-554-371-00	SWITCH, TACT (FF) SWITCH, TACT (FR) SWITCH, TACT (STOP)	JR853 JR854
1-567-301-11	VIBRATOR, CRYSTAL, 35.003MHz OSCILLATOR, CRYSTAL, 8.4672MHz	JR855
0 5% No.104000)	METAL CHIP I-216-295-00 (D-5:UP TO SERIAL METAL CHIP	38856
	1-215-295-00 (D-5:UP TO SERIAL METAL CHIP	JR857
No.104000)	1-216-295-00 (D-5:UP TO SERIAL METAL CHIP	38858

	01006 152835	8-719-100-03.	0503	
3-760-008-11	(D-50)MANUAL, INS	TRUCTION	0504	25V
3-760-008-22	(D-5)MANUAL, INS	TRUCTION RIV-8	0505	207
3-760-008-41	(AEP)MANUAL, INS		2020	SeA
*3-795-629-11	(AEP)INSTRUCTION	8-719-100-03 8-719-100-03	0506	VZS
3-795-748-21	(D-5)SAFETY INSTRUCTION			254
4-907-094-02	HANDLE	UCTIONS, HEADP	HUNECO	16V
1-307-034-02	01006 152835	8-719-100-03	0509	FULA
4-907-095-01	SHEET, PROTECTION	8-719-100-03	0510	25V
4-907-096-01	CASE, ADAPTOR 30010	8-719-101-23	0511	SOV
				50V
4-907-097-01	(UK,E)SUPPORT (A)		0512	and the second
4-907-098-01	(D-5)SAPORTOR (B		0513	SOV
4-907-099-01	(AEP)SUPPORT (C)	8-719-100-03	0514	164
4-907-705-01	CUSHION (R)	0 710 101 03	0515	sov
4-907-706-01	CUSHION (L)	8-719-101-23	0515	YUC
4-908-701-01	(US,UK,E)HOLDER	8-719-101-23	0601	25V
1-300-701-01	(00,00,0)	03-101-011-0	1000	25V
4-908-703-02	(D-5)INDIVIDUAL	B-719-9 NOTRA	0602	sov
4-908-708-01	(D-50) INDIVIDUAL		1080	50V
		8-719-100-03	0802	in the thirty of
			-	25V
		an-temetter	2000800	167
	(D-5:UP TO SERIAL No	8-719-100-05	1380	25V
	0010			164
	FILTER, LOW PASS	1-235-403-11	FLIGI	SOA
	FILTER, LOW PASS	1-235-403-11	FL201	
	IC CX20109	8-752-010-90	101	SOV
	IC NJM4558M	8-759-200-43	162	
	IC TL072CPS	8-759-908-16	10101	
	1C NJM4560M	8-759-745-64		
	2022020 17 21	0 360 000 16		6.3V 50V
	IC TL072CPS IC MJM4560M	8~759~908~16 8~759~745~64	16201	SOV
	IC CX20133	8-752-013-30	10201	+00
	CCIVING DI	on-enteraction.	AND NA	25V
	1C 00040538G	8-759-103-25	10302	VE.8
	IC UPD40538G	8-759-103-25		VE.8
	IC NJM4560M	8-759-745-64	10.304	
		8-759-700-40	10305	6.3V
		8-752-010-80	10501	VOS
	1C NJM4558M	8-759-700-43	10502	
	IC TLO82CPS	8-759-908-17	10503	25V
	IC NJM2901MB	8-759-700-75	10503	
	IC NJM2901MB	8-759-700-75	10505	10% SOV
	IC MB3763PF	8-759-908-81	10506	.0-50)

ACCESSORY & PACKING MATERIAL MAG JADISTORIE

Description 1010290

Ref.No. Part No.

Part No.

	<u>second</u>							A CONTRACTOR		
1-463-364-00 1-463-431-00 1-463-432-00	(E)ADAPTOR, AC (UK)ADAPTOR, AC (AEP)ADAPTOR, AC	(AC-230A)		50V 25V 25V	103	0.1MF	CHIP CHIP	CERAMIC CERAMIC	1-163-143-00 1-163-038-00 1-163-038-00	C519 C520 C521
1-463-487-00	(D-5)ADAPTOR, AC	(AC-190(W)USA)		25V		101.0		CERAMIC	1-163-038-00	C522
1	CODD	11-138-817-8	01					157457	10.000 301 1	
1-555-658-21	CORD, CONNECTION (R)	(-G129)	D501	20V	205			TANTAL .	1-135-088-21	C523
3-701-618-00	BAG, POLYETHYLENE		05.02	VOS	20%			TANTAL.	1-135-088-21	
3-701-624-00	(US,UK,AEP)BAG, F			25V		1141.0	4147	CERAMIC	1-163-038-00	0525
2 760 000 11		8-719-100-03	0503			7447 0			1-163-038-00	C526
3-760-008-11	(D-50)MANUAL, INS		0504	25V				CERAMIC	1-135-088-21	C527
3-760-008-22 3-760-008-41	(D-5)MANUAL, INS		0505	20V	205			TANTAL .	1-163-038-00	
3=700=008=41	(AEP)MANUAL, INS		0506	SeA		447.10	4102	CERAMIC	00-000-001-1	
*3-795-629-11	(AEP)INSTRUCTION	8-719-100-03 8-719-100-03	0507	25V		38000 0	OTUS	CERAMIC	1-163-033-00	C529
3-795-748-21	(D-5)SAFETY INSTR			254	10%			CERAMIC	1-163-033-00	C530
4-907-094-02	HANDLE	tocilons, neadr	HUNE	16V	10%			TANTAL .	1-135-091-00	C531
	01006 152835	8-719-100-03	0509	1914						
4-907-095-01	SHEET, PROTECTION	8-719-100-03	0510	254	10%	0.022MF	CHIR	CERAMIC	1-163-033-00	
4-907-096-01	CASE, ADAPTOR		D511	SOV	201			CERAMIC	1-163-059-00	C533
				SOV	10%			CERAMIC	1-163-021-00	C534
4-907-097-01	(UK,E)SUPPORT (A)	8-719-101-23	0512							
4-907-098-01	(D-5) SAPORTOR (E		0513	SOV	10%	0.022MF	CHIP	CERAMIC	1-163-033-00	
4-907-099-01	(AEP)SUPPORT (C)		0514	164		IMF			1-135-091-00	C536
E 152835	0010				(00040	RIAL NO.10	TO SE	(0-5:0P	1-163-035-00	0537
4-907-705-01	CUSHION (R) 21 30010	8-719-101-23	0515	50V	.068MF	NIC CHIP 0.	CERAM			
4-907-706-01	CUSHION (L) 20010	8-719-101-23	0516							
4-908-701-01	(US,UK,E)HOLDER	8-719-101-23	0601	25V	101			. JATHAT	1-135-083-00	C538
				25V				CERAMIC	1-163-038-00	C601
4-908-703-02	(D-5)INDIVIDUAL	CARTON - 215-8	0602	SOV	53			CERAMIC	1-163-101-00	C602
4-908-708-01	(D-50)INDIVIDUAL		1080	50V	22	22PF	CHIP	CERAMIC	1+163-101-00	C603
	01006 152835	8-719-100-03	0802							2055
			and the second s	25V					1-163-038-00	C604 C605
	18:307 20010.2.1(20)		100800	15V	10%			TANTAL. CERAMIC	1-135-091-00	6000
	(D-5:UP TO SERIAL No	8-719-100-05	1980	25V	101	10220-0	ATHO		00-00-001-1	
	0010			16V	20%	10MF			1-123-617-00	C607
	FILTER, LOW PASS	1-235-403-11	FL101	SOA	5%			CERAMIC	1-163-117-00	8030
	FILTER, LOW PASS		FL201	VOU	5%			CERAMIC	1-163-594-00	C609
	TOUL HAD FUSIST	11.00000000	449931			1100		C. F. L. D. M. M. M.		
	1C CX20109	8-752-010-90	101	SOV	58	338F	CHIP	CERAMIC	1-163-105-00	C610
	IC NJM4558M	8-759-200-43	ICZ		5%			CERAMIC	I-163-123-00	C611
	IC TL072CPS	8-759-908-16	ICIDI			0.068MF	CHIP	CERAMIC	1-163-833-00	C612
	IC NJM4560M	8-759-745-64								
				6.3V	20%	22MF		ELECT	1-123-618-00	C613
	1C TL072CPS	8-759-908-16	10201		10%			CERAMIC	1-163-022-00	C614
	IC NJM4560M	8-759-745-64	16202	SOA	10%	0.01MF	CHIP	CERAMIC	1~163-021-00	0615
	IC CX20133	8-752-013-30	102301			Sec. 1				2125
				25V				CERAMIC	1-153-038-00	C816
	IC 0P0405386	8-759-103-25	10302	VE.8	20%	33MF		ELECT	1-123-646-00	
	IC UPD405386	8-759-103-25	16303	6.3V	20%	33MF		ELECT	1-123-646-00	. C518
	IC NJM4560M	8-759-745-64	10304		10.77		atus	0784020	1 162 110 00	C801
					58			CERAMIC	1-163-119-00 1-135-101-21	C802
		8-759-700-40	10305	6,3V 20V	20%			TANTAL .	1-135-088-21	£080
		8-752-010-80	10501		205			TANTAL .	1-163-038-00	C851
	1C NJM4558M	8-759-700-43	10502	25V		RIAL No.1(HC CHIP 0.		1010-0)	00-000-001-1	TCGO
	IC TLOB2CPS	8-759-908-17	10503	462	2011	V TING JI	onda J			
	IC NUM2901MB	8-759-700-75	10503		(0004	RIAL No.10	32 OT	40:2-01	L-163-055-00	
	IC NJM2901MB	8-759-700-75	10505			IC CHIP OI			and and share to	
	IC MB3763PF	8-759-908-81	10506			0.104001		(0-5:SER	1-163-017-00	C901
		7								

... CERAMIC CHIP 0.0047MF 10% 50V

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

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

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9-951-605-11

Sony Corporation

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