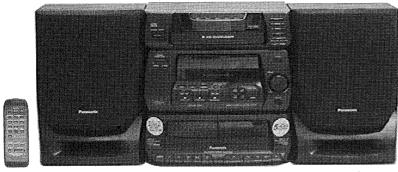
Envice Manual CD Stereo System SA-CH34



Remote Control SB-CH34 Transmitter

SA-CH34

SB-CH34

TAPE SECTION : SG20W MECHANISM SERIES CD SECTION : RAE0150Z TRAVERSE DECK SERIES Specifications

Amplifier Section

Ampliner Section	
1 kHz continuous power output,	
both channels driven	2 x 20 W (THD 1%, 4 Ω)
RMS	2 x 30 W (THD 10%, 4 Ω)
Total harmonic distortion	
Half power at 1 kHz	0.1 % (4 Ω)
Frequency response	
CD	45 Hz – 20 kHz (–3 dB)
Input sensitivity and impedance	050 mV 47 kg
AUX	250 mV, 47 kΩ
Load impedance	4 Ω
FM Tuner Section	
Frequency range	87.50 – 108.00 MHz
Sensitivity	23.3 dBf
Total harmonic distortion	
MONO	0.3 %
STEREO	0.5 %
S/N	· · ·
MONO	60 dB
Image rejection at 98 MHz	35 dB
Stereo separation at 1 kHz	35 dB
Antenna terminal(s)	75 Ω (unbalanced)
AM Tuner Section	
Frequency range	
MW	522 – 1611 kHz

MW LW Sensitivity (for 500 mW) MW (at 999 kHz) LW (at 254 kHz) 522 – 1611 kHz 144 – 288 kHz 250μ V/m

500µ V/m

Notes :

 Specifications are subject to change without notice. Weight and dimensions are approximate.

2. Total harmonic distortion is measured by the digital spectrum analyzer.



Area	(K) Blae	ck Type
Suffix for Model No.	Area	Colour
(E)	Continental Europe	
(EB)	Great Britain	(K)
(EG)	Germany and Italy	

Colour

System	Music Center	Speaker
SC-CH34 (E)	SA-CH34 (E)	SB-CH34 (E)
SC-CH34 (EB)	SA-CH34 (EB)	()
SC-CH34 (EG)	SA-CH34 (EG)	(made in PAES)

Cassette Deck Section

4 track, 2 channel Track system Heads Solid permalloy head Playback Record/playback Solid permalloy head Double gap ferrite head Erasure DC servo motor Motor **Recording system** AC bias 100 kHz **Erasing system** AC erase 100 kHz 4.8 cm/s (17/8 ips) Tape speed **Frequency response** NORMAL 30 Hz - 14 kHz (+2 dB, -5 dB) 52 dB (A-WTD) S/N (NORMAL type) 0.1 % (WRMS) Wow and flutter Fast forward and rewind time

Approx. 110 seconds with C-60 cassette tape

CD Section

Sampling frequency Decoding Beam source/wave length Number of channels S/N CD UNIT OUT Wow and flutter Digital filter D/A converter

General Power consumption Power supply

Dimensions (W x H x D) Weight 44.1 kHz 16 bit linear Semiconductor laser / 780 nm Stereo

> 95 dB (JIS. A) Below measurable limit 8 fs MASH (1 bit DAC)

91 W AC 50 Hz, 230 V (E, EG) AC 50 Hz, 230 – 240 V (EB) 270 x 320 x 322 mm 6.3 kg

MASH is a trademark of NTT.

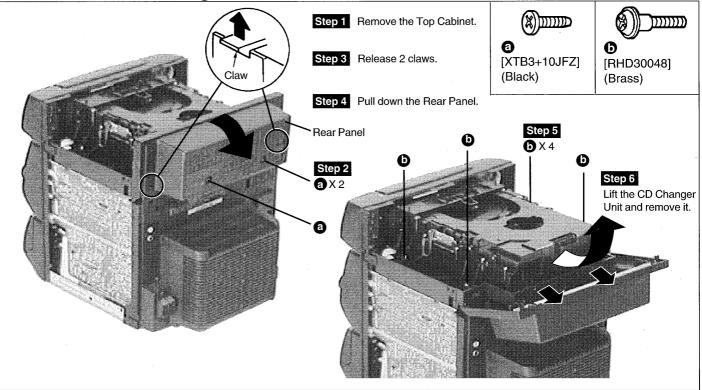
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Operation Checks and Main Component Replacement Procedures

 This section describes procedures for checking the operation of the major printed circuit boards an replacing the main components. For reassembly after operation checks or replacement, reverse the respective procedures. Special reassembly procedures are described only when required. 	
3. Select items from the following index when checks or replacement are required.	
4. Refer the Parts No. on the page of "Main Component Replacement Procedures", if necessary.	
Contents	page
Disassembly Procedures	
1. Removal of the CD Changer Unit	5
 Removal of the CD Changer Unit Disassembly of the Traverse Unit 	6
3. Disassembly of the CD Changer Unit	6&7
Assembly of the CD Changer Unit	7&8
• Checking Procedure for each major P.C.B.	
1. Checking for the Servo P.C.B.	8
1. Checking for the Servo P.C.B. 2. Checking for the Main, Tuner, Panel and Deck P.C.B.	9
Main Component Replacement Procedures	
1. Replacement of the Traverse Deck	9
2. Replacement of the Power Amplifier IC and Regulator Transistors	10
Warning: This product uses a laser diode. Refer to caution statements on page 3.	
ACHTUNG : • Die lasereinheit nicht zerlegen.	

• Die lasereinheit darf nur gegen eine vom hersteller spezifizierte einheit ausgetauscht werden.

Removal of the CD Changer Unit



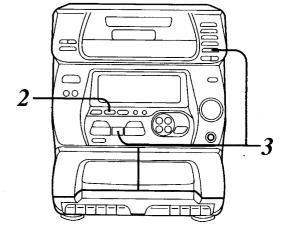
Before Moving or Shipping This Unit

Before moving or shipping this CD changer:

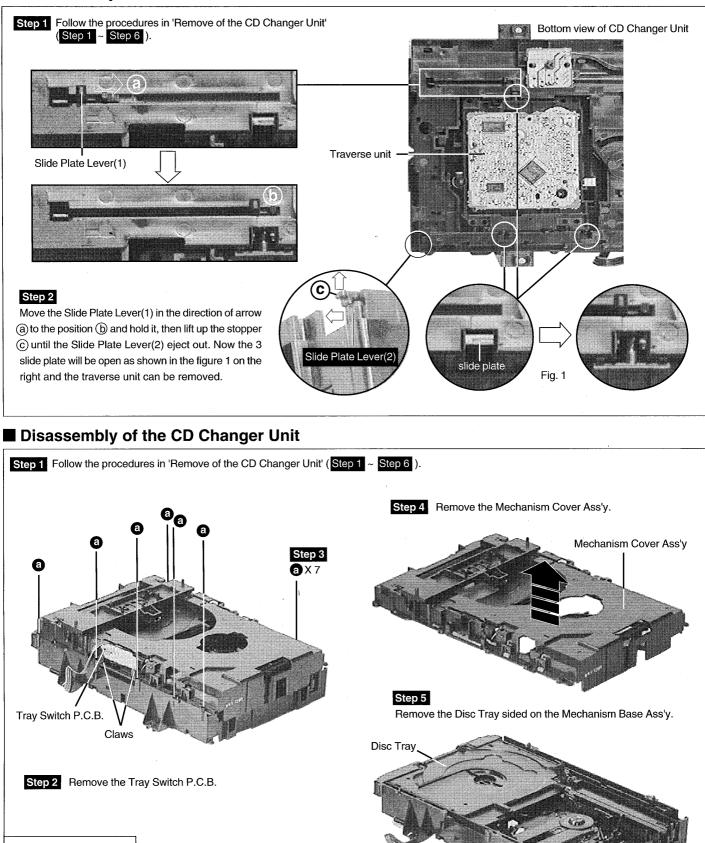
Prepare the CD changer as described below to prevent damage to the mechanism.

- 1. Remove all CDs.
- 2. Press CD.
- Hold down stop button (■) for 2 seconds and then without releasing it, hold down both it and DISC 5 for 2 more seconds.
- (This will turn OFF the power and set the so-called "shipping mode".)
- 4. Unplug AC mains lead.

Avoid strong vibrations or impact while moving the equipment. The shipping mode will turn OFF automatically when you turn the power ON the next time.



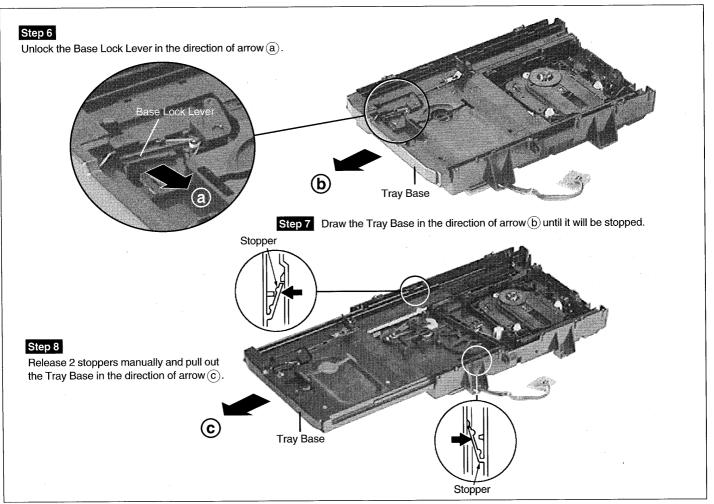
Disassembly of the Traverse Unit



(Black)

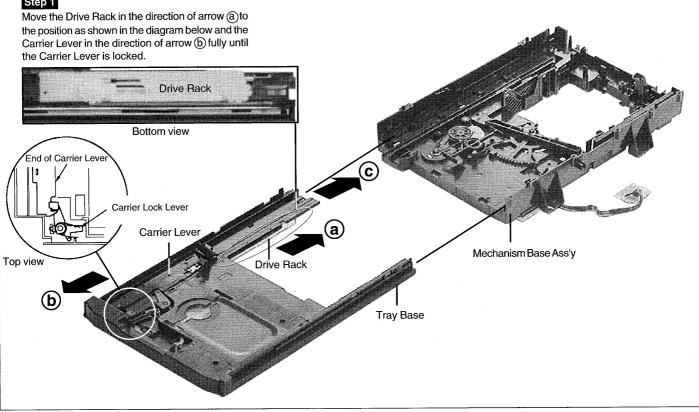
- 6 ---

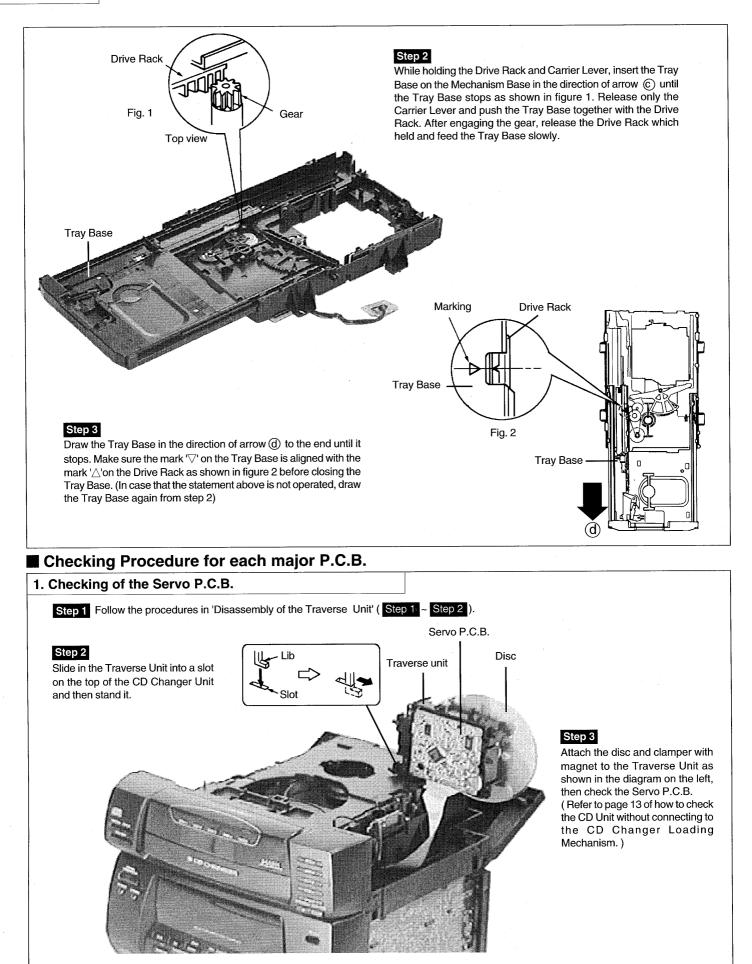
Mechanism Base Ass'y

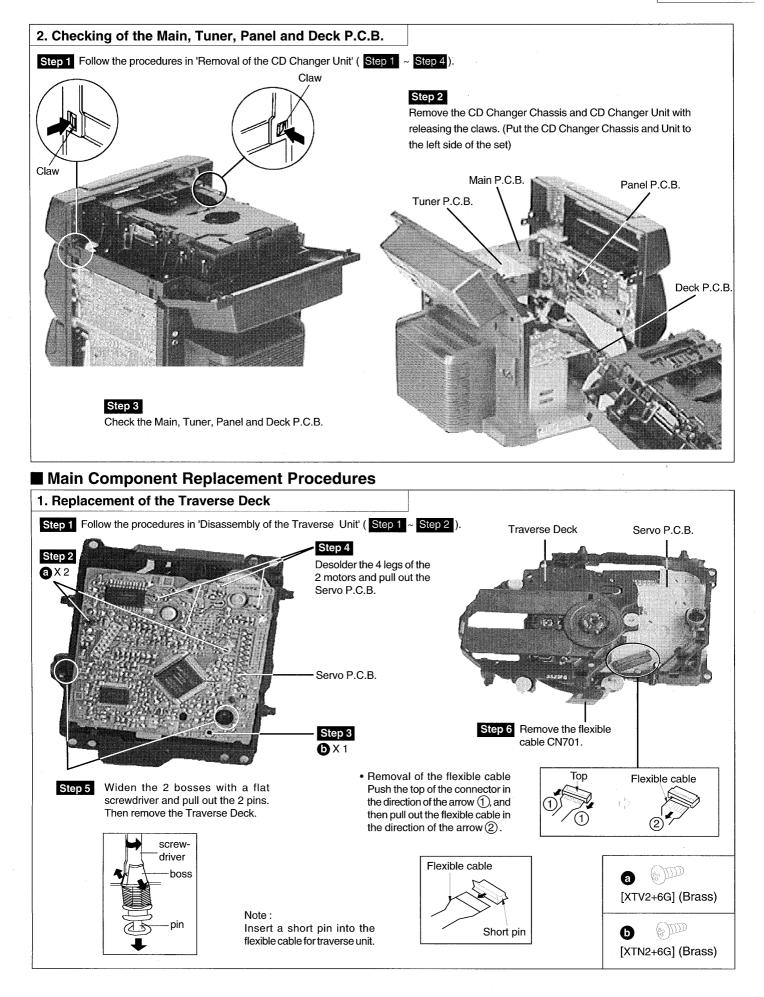


Assembly of the CD Changer Unit

Step 1







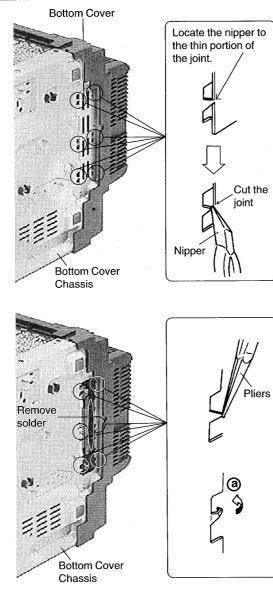
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Bottom Cover

Chassis

2. Replacement of the Power Amplifier IC and Regulator Transistors.

Step 1 Follow the procedures in 'Checking of the Main, Tuner, Panel and Deck P.C.B. and remove the Front Panel.



Step 2

Cut the joints (6 portion) between bottom cover and bottom cover chassis ass'y with a nipper.

Step 3

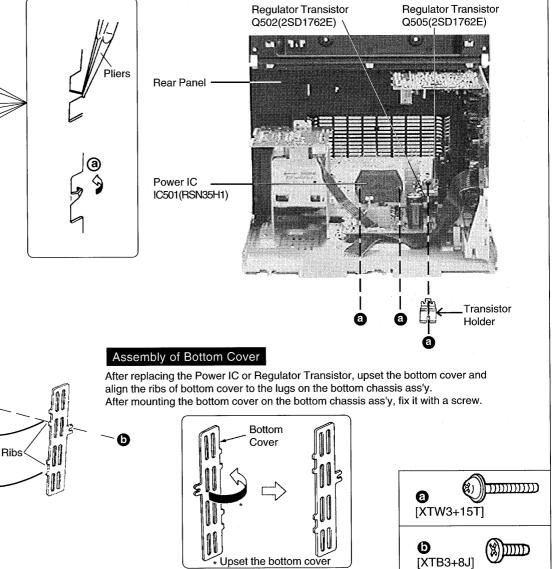
After cutting the joints (6 portions), bend the portions of the bottom chassis ass'y in the direction of arrow (a) with pliers. (Step 2 must be performed to avoid injury by sharp edge.)

Step 4

Unsolder the terminals of Power IC or Regulator Transistors on the solder surface.

Step 5

Remove 3 screws fixed to the Power IC and Transistor Holder, then remove Power IC, Transistor Holder and Regulator Transistors.

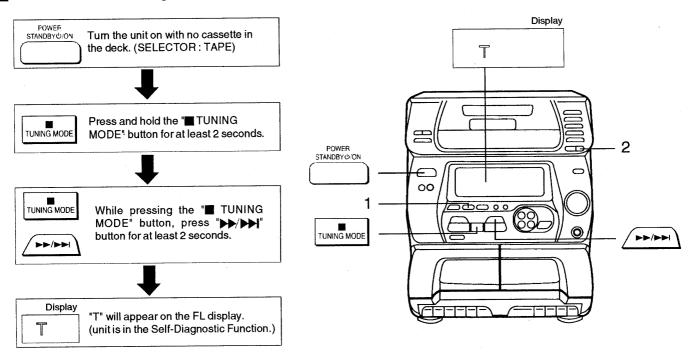


Self-Diagnostic Display Function

Self-diagnostic display

This unit is equipped with a self-diagnostic display function which, if a problem occurs, will display an error code corresponding to the problem. Use this function when performing maintenance on the unit.

How to enter the Self-Diagnostic Function



■ CD / CD Changer Self-Diagnostic function mode

Press following buttons while the unit is in the Self-Diagnostic function mode

- 1. Press CD
- 2. Press CHECK)

Error condition is detected during "NEXT CHECK" operation and memorised.

To Display Self-Diagnostic Result

Press"■ TUNING MODE" button.
 *If several problem exist, error code will change each time when "■ TUNING MODE" button is pressed.
 (e.g. F15 → F16 → F28 etc.)
 *If no problem, "T" will remain unchanged.

To clear all Error code

- 1. Press " TUNING MODE" button for 5 seconds.
- 2. FL indicator shows "CLEAR" for 1 second and change to "T".

■ How to get out from Self-Diagnostic function

1. Press "POWER" button OFF.

(1) Error detection for CD/CHANGER block

No.	Error	Error Display	Problem condition
1	REST SW detection error	F15	CD does not function. This error occurs when the Optical Pick Up REST SW (S701) is not detected within the specified time (about 8 seconds)
2	S1 (STK), S2 (PLY) detection error	F28	CD loading mechanism does not move correctly. This error occurs when S1 (stocker position detection) is not ON or OFF, or S2 (play position detection) is not ON or OFF within the specified time.
3	S3 (TUP) detection error	F16	CD does not function. This error occurs when S3 (Traverse up detection) is not ON or OFF within the specified time.
4	S4 (DRO) detection error	F25	Tray does not stay open. This error occurs when S4 (Tray open detection) is not ON or OFF during OPEN/CLOSE operation within the specified time.
5	S5 (TNO) detection error	F27	Tray number does not detect correctly. This error occurs when S5 (Tray number detection) can not be detected normally or when the TRAY No. is uncertain.
6	Transmission error between CD servo LSI and micon	F26	CD does not function. This error occurs when the POWER is ON for the CD block and an error is detected after the transmission has started.
7	CD power error	F75	CD does not function. Check if CDRST is H for SELECTOR at CD. If it is not H after 1 second, it shall be memorised as an error.

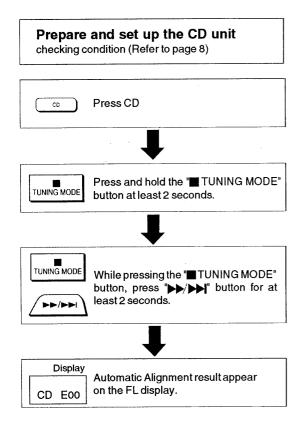
(2) Power Supply related error detection

No.	Error	Error Display	Problem condition
1	POWER AMP output abnormal	F61	When POWER SW is on, power become off automatically. During normal operation, if DC DET become L, PCNT shall become L and the error display on the left shall be displayed.

■ CD Test Mode Function

This CD test mode is provided to check CD unit without connecting to changer loading mechanism. This mode shall operates CD PLAY with CD unit being connected only and CD Automatic Alignment result is shown on FL display.

How to set CD test mode



CD Automatic Alignment result indication

This function provided indication of error code as the result of Automatic Alignment of CD (Tracking, Focus, Offset, etc.). Based on these error codes, the faulty area can be located .

Error code Explanation

- The unit is satisfactory if the error code is E00
- Before testing, make sure that the test disc is free of scratches, dirt and that the optical pick up lens is clean.

Error code	E00	E01	E02	E03	E04	E05	E06	E07	E08	E09	E0A	E0B	E0C	E0D	E0E	EOF
Focusoffset	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trackingoffset	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Focus Gain (Rough)	0	*	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tracking Gain(Rough)	0	-	0	X	0	X	0	X	0	X	0	X	0	X	0	X
Tracking balance	0	-	×	×	0	0	×	×	0	0	×	×	0	0	×	X
Focus balance	0	-	0	0	×	X	×	×	0	0	0	0	×	×	×	X
Tracking or Focus Gain (Fine)	0	-	0	0	0	0	0	0	×	×	×	×	×	×	×	X

X Fault

O Satisfy

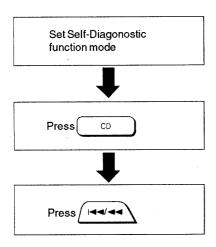
fy

(🔆 Fault either items)

Reliability test mode for CD / CD CHANGER

This function provided to check CD player and CD CHANGER mechanism. Use this function to check CD player and loading mechanism operation after repair or to find intermittent problem.

How to set reliability test mode.



Operation and function

In the reliability test mode, the set repeat the following operation:

- 1) Open tray 1;
- 2) Fully OPEN condition, CLOSE 1 sec after drawer stops;
- 3) PLAY the first track of disc 1 for 2 sec;
- 4) Skip to the last track, play for 2 sec and stop;

5) Open tray 3;

- 6) Fully OPEN condition, CLOSE 1 sec after drawer stops;
- 7) PLAY the first track of the disc 3 for 2 sec;
- 8) Return to above step 1) after 1 sec.

· During this series of operation, the number of its operation shall be shown in the alphanumeric display repeatedly.

It shall start from



• It shall move up one counter when step 1-8 of the above operations end.



• Execute POWER OFF to cancel the reliability test mode and the self-diagnostic mode.

Measurements and Adjustments

< TUNER SECTION >

■ LW ALLOCATION SETTING

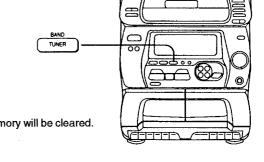
By adjusting the allocation, you can enable this tuner to receive LW broadcasts allocated in 1 kHz steps.

- 1. Press and hold TUNER, BAND for approximately 5 seconds. The frequency display will be returned to the minimum frequency of the LW band and the display will begin to flash. Keep holding for approximately 5 more seconds.
- 2. When the display stops flashing, release TUNER, BAND. To return to the original frequency, repeat step 1 to 2.

Note

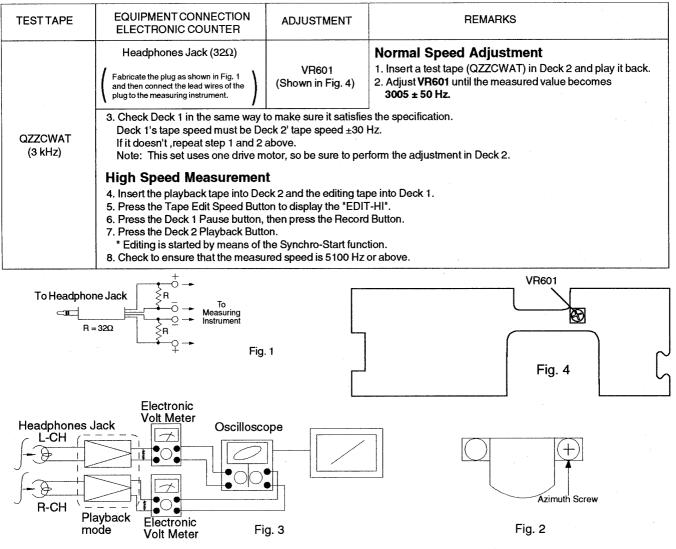
After changing the allocation setting, the frequencies you previously preset to the memory will be cleared.

< CASSETTE DECK SECTION > HEAD AZIMUTH ALIGNMENT



TESTTAPE	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	REMARKS
QZZCFM (8kHz, -20dB)	Headphones Jack (32Ω) (Fabricate the plug as shown in Fig. 1 and then connect the lead wires of the plug to the measuring instrument.	Azimuth screw (Shown in Fig. 2 & 3)	 Playback the azimuth adjustment portion (8 kHz, -20 dB) of the test tape (QZZCFM). Vary the azimuth adjusting screw until the outputs of the L-ch and R-ch are maximized and the lisajous waveform, as illustrated, approaches 0 degrees. Notes: When the adjusting positions are different with L-ch and R-ch, find a position where the outputs of L-ch and R-ch are balanced, and then make the adjustment into the range " 0 ~ -0.5 dB" from the peak.

TAPE SPEED ADJUSTMENT



Terminal Function of ICs

• IC701 (AN8835SBE1) Servo Amplifier

Pin No.	Mark	١⁄٥	Function	Pin No.	Mark	vo	Function
1	PDA	ı	PD signal input	15	/RFDET	0	NRFDET output ("L" : detection)
2	PDB	1	PD signal input	16	CROSS	0	CROSS output (Track cross signal output)
3	vcc	1	Power supply connection	17	OFTR	ο	Off-track output("L" : ON track, "H" : OFF track
4	LPD	1	Laser PD connection	18	VDET	0	VDET output("H" : Vibration detected)
5	LD	0	Power out for LD driving	19	ENV	0	RF envelope detection
6	RF	0	RF signal output	20	TEBPF	1	Vibration detection signal input
7	RFIN	1	RF signal input	21	CCRS	1	Capacitor for LPF connection
8	CAGC	1	AGC loop filter connection	22	TE	0	Tracking error signal output
9	ARF	0	RF-AGC output	23	FE	0	Focus error signal output
10	CSBRT	1	Capacitor for detection connection	24	TBAL	I	Tracking balance signal input
11	CEA	1	Capacitor connection for HPF amplifier	25	FBAL		Focus balance signal input
12	BDO	0	BDO output ("H" : drop out)	26	VREF	0	Reference voltage output
13	LDON	1	LD APC input ("H" : ON, "L" : OFF)	27	PDE	1	PD signal input
14	GND		Groundconnection	28	PDF	1	PD signal input

• IC703 (AN8389SE1) Focus coil / Tracking coil / Traverse motor / Spindle motor driver

Pin No.	Mark	1/0	Function			
1	VCC	I	Power supply terminal			
2	VREF	1	Reference voltage input			
3	IN4	1	Motor driver (4) input			
4	INЗ	1	Motor driver (3) input			
5	GND	<u> </u>	Ground connection			
6	NC		Ground connection			
7	NRESET	1	Reset input			
8	GND		Ground connection			
9	IN2	1	Motor driver (2) input			
10	PC2	1	PC2 (power cut) input			
11	IN1	I	Motor driver (1) input			
12	PC1	1	PC1 (power cut) input (Not used, open)			

Pin No.	Mark	vo	Function
13	PVCC1	1.	Power supply (1) for driver
14	PGND1		Ground connection (1) for driver
15	D1-	0	Motor driver (1) reverse-action output
16	D1+	0	Motor driver (1) forward-action output
17	D2	0	Motor driver (2) reverse-action output
18	D2+	0	Motor driver (2) forward-action output
19	D3-	0	Motor driver (3) reverse-action output
20	D3+	ο	Motor driver (3) forward-action output
21	D4	0	Motor driver (4) reverse-action output
22	D4+	0	Motor driver (4) forward-action output
23	PGND2	-	Ground connection (2) for driver
24	PVCC2	1	Power supply (2) for driver

• IC702 (MN662741RPA) Servo processor / Digital signal processor / Digital filter / D/A converter

Pin No.	Mark	I/O	Function
1	BCLK	0	Serial bit clock terminal (Not used, open)
2	LRCK	0	L/R discriminating signal (Not used, open)
3	SRDATA	0	Serial data (Not used, open)
4	DVDD1	1	Power supply (digital circuit) terminal
5	DVSS1	—	GND (digital circuit) terminal
6	тх	0	Digital audio interface signal
7	MCLK	1	Microprocessor command clock signal
8	MDATA	1	Microprocessor command data signal
9	MLD	1	Microprocessor command load signal
10	SENSE	0	Sense signal output
			(OFT,FESL,MAGEND,NAJEND,POSAD,SFG)
11	/FLOCK	0	Optical servo condition(focus)("L" : lead-in)
12	/TLOCK	0	Optical servo condition(tracking)("L" : lead-in)
13	BLKCK	0	Sub-code block clock (f=75Hz)
14	SQCK	1	External clock signal input for sub-code Q
			register.
15	SUBQ	0	Sub-code Q code output
16	DMUTE	1	Muting input ("H" : mute)
17	STAT	0	Status signal output
			(CRC,CUE,CLVS,TTSTVP,FCLV,SQCK)
18	/RST	1	Reset input
19	SMCK	0	1/2-divided clock signal of crystal oscillating at
			MSEL = "H" (fSMCK=8.4672MHz)
			1/4-divided clock signal of crystal oscillating at
			MSEL="L" (fSMCK=4.2336MHz)
20	PMCK	0	1/192-divided clock signal of crystal oscillating
			(fPMCK=88.2kHz) (Notused, open)
21	TRV	0	Traverse servo control output
22	TVD	0	Traverse drive signal output
23	PC	0	Spindle motor ON signal output ("L" : ON)
24	ECM	0	Spindle motor drive signal output
			(forced mode output)
25	ECS	0	Spindle motor drive signal output
			(servo error signal output)
26	KICK	0	Kick pulse output
27	TRD	0	Tracking drive output
28	FOD	0	Focus drive output
29	VREF	1	D/A (drive) output (TVD, ECS, TRD, FOD,
			FBAL, TBAL) Reference voltage input.
30	FBAL	0	Focus balance adjustment output
			(Notused,open)
31	TBAL	0	Tracking balance adjustment output
32	FE	1	Focus error signal input (analog input)
33	TE	1	Tracking error signal input (analog input)
34	RFENV	1	RF envelope signal input
35	VDET	1	Vibration detection signal input ("H" : detection)

Pin No.	Mark	I/O	Function	
36	OFT	1	Off-track signal input ("H" : off track)	
37	TRCRS	1	Track cross signal input	
38	/RFDET	1	RF detection signal input ("L" : detection)	
39	BDO	I	Dropout signal input ("H" : Dropout)	
40	LDON	0	Laser on signal output ("H" : ON)	
41	TES	0	Tracking error shunt signal output ("H" : shunt)	
42	PLAY	0	Play signal out ("H" : PLAY)	
43	WVEL	0	Double speed status signal output ("H" : DS)	
44	ARF	1	RF signal input	
45	IREF	1	Reference current input	
46	DRF	1	DSL bias (Not used, open)	
47	DSLF	I/O	DSL loop filter	
48	PLLF	I/O	PLL loop filter	
49	VCOF	1/0	VCO loop filter (Not used, open)	
50	AVDD2	1	Power supply input (for analog circuit)	
51	AVSS2	—	GND (for analog circuit)	
52	EFM	0	EFM signal output (Not used, open)	
53	PCK	0	PLL extraction clock ouput (Not used, open)	
			(fPCK=4.321 MHz during normal playback)	
54	PDO	0	Phase comparison signal of EFM and PCK signals	
			(Not used, open)	
55	SUBC	0	Sub-code serial data output (Not used, open)	
56	SBCK	1	Sub-code frame clock signal output	
			(fCLDCK=7.35kHz during normal playback)	
57	VSS	—	GND	
58	X1	1	Crystal oscillating circuit input (f=16.9344MHz)	
59	X2	0	Crystal oscillating circuit output (f=16.9344MHz)	
60	VDD	I	Power supply input (for oscillating circuit)	
61	BYTCK	0	Byte clock output (Not used, open)	
62	/CLDCK	0	Clock input for sub-code serial data	
			(Not used, open)	
63	FCLK	0	Crystal frame clock signal output	
			(fCLK=7.35kHz, double=14.7kHz)	
64	PFLAG	0	Interpolation flag output ("H" : interpolation)	
			(Not used, open)	
65	FLAG	0	Flag output (Not used, open)	
66	CLVS	0	Spindle servo phase synchronizing signal output	
			("H" : CLV, "L" : rough servo) (Not used, open)	
67	CRC	0	Sub-code CRC checked output	
			("H" : OK, "L" : NG) (Not used, open)	
68	DEMPH	0	De-emphasis ON signal output	
			("H" : ON) (Not used, open)	
69	RESY	0	Frame resynchronizing signal output	
			(Not used, open)	
70	/RST2	1	Reset input through MASH circuit ("L" : Reset)	
71	/TEST	1	Test input	

Pin No.	Mark	I/O	Function	
72	AVDD1	1	Power supply input (for analog circuit)	
73	OUTL	0	Left channel audio signal output	
74	AVSS1	—	GND	
75	OUTR	0	Right channel audio signal output	
76	RSEL	1	RF signal polarity assignment input	
			(at "H" level, RSEL="H", at "L" level, RESL="L")	
77	CSEL	1	Crystal oscillating frequency designation input	

Pin No.	Mark	I/O	Function	
			"L" : 16.9344MHz "H" : 33.8688MHz	
78	PSEL	1	Test input (normally "L") (Not used, open)	
79	MSEL	1	Output mode switching of SUBQ terminal	
			("H" : Q code buffer mode)	
80	SSEL	1	Output frequency switching for SMCK terminal	
			"H" : SMCK=8.4672MHz	
			"L" : MCK=4.2336MHz (Not used, open)	

• IC901 (M38197MA133) System Microprocessor

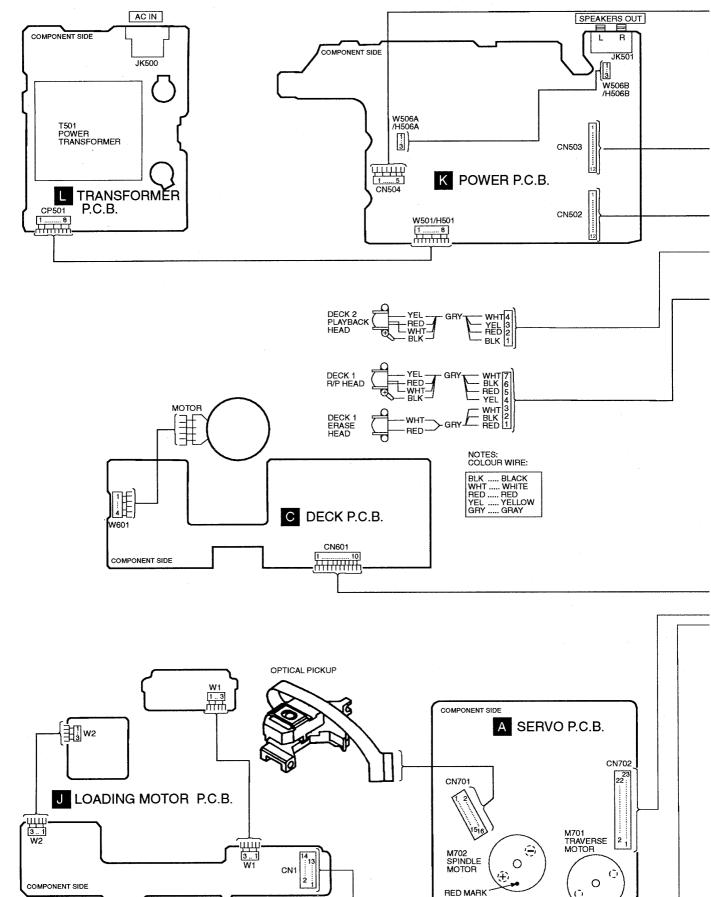
Pin No.	Mark	I/O	Function	
1	DECK2	1	Mecha condition input(PLAY, FF/RW, MOTOR)	
2	DECK 1	1	Mecha condition input(PLAY, FF/RW, MOTOR)	
3	REC	Ι	Recinput	
4	CRT	Ι	CRT timer	
5	KEY 4	1	Key 4 input	
6	KEY 3	1	Key 3 input	
7	KEY 2	Ι	Key 2 input	
8	KEY 1	1	Key 1 input	
9	COM_CLK	0	Clock output for I/O exp. & sound processor	
10	REG 6	I	Volume mode or volume curve select	
11	SP_DATA	0	Data output for sound processor	
12	SP_LATCH	0	LATCH output for sound processor	
13	IO_DATA	0	Data output for I/O expander(BU2090)	
14	CH_FWD	0	CD changer motor forward	
15	CH_REV	0	CD changer motor reverse	
16	CHG_SW1	1	CD changer SW input (STK_SW, TUP_SW)	
17	CHG_SW2	Ι	CD changer SW input	
			(DR0_SW, PLY_SW, TN0_SW)	
18	CDRST	0	CD reset output	
19	STATUS	Ι	CD signal processor status input	
20	SQCK	0	CD subcode clock output	
21	REG 7	0	CD acceleration time select	
22	SUBQ	Ι	CD subcode data input	
23	TLOCK	I	CD tracking lock input	
24	FLOCK	1	CD focus lock input	
25	SENSE	T	CD servo processor sense input	
26	MLD	0	CD command load output	
27	MDATA	0	CD command data output	
28	MCLK	0	CD command clock output	
29	RESTSW	1	CD detect SW input for the most inside	
30	BLKCK	1	CD block clock input	

Pin No.	Mark	I/O	Function	
31	RMT	I	Remote control input	
32	DCDET	Ι	DC detect input	
33	PCNT	0	Power control output	
34	HALT	ł	AC failure detect input	
35	RESET	Ι	RESET input	
36	XCIN	I	32.768 kHz sub clock	
37	XCOUT	0	32.768 kHz sub clock	
38	XIN	I	6.0 MHz Main clock	
39	XOUT	0	6.0 MHz Main clock	
40	VSS		Ground (0V)	
41	MBP1	0	MPU beat proof output 1	
42	MBP2	0	MPU beat proof output 2	
43	DMUTE	0	CD digital mute output	
44-48	LED5-1	0	CD changer status indicator	
49-54	N.C.	—	Noconnection	
55-64	GRD10-GRD1	0	Digit drive output (GRID DRIVE OUTPUT)	
65-83	AND1-AND19	0	Segment drive output	
			(ANODE DRIVE OUTPUT)	
84-88	REG1-REG5	I	Region and Karaoke function setting input	
89	JOG A	1	Jog input A	
90	JOG B	1	Jog input B	
91	VCC	I	Powersupply(+5V)	
92	PLLCE	0	Tuner PLL chip enable	
93	PLLDA	0	Tuner PLL data output	
94	PLLCK	0	Tuner PLL clock output	
95	SD	Ι	Tuner signal DET input	
96	STEREO	I	Tuner stereo DET input	
97	DO	I	Tuner PLL if data input	
98	VEE		Power supply (-30V)	
99	AVSS		Analog ground (0V)	
100	VREF		Reference for A-D	

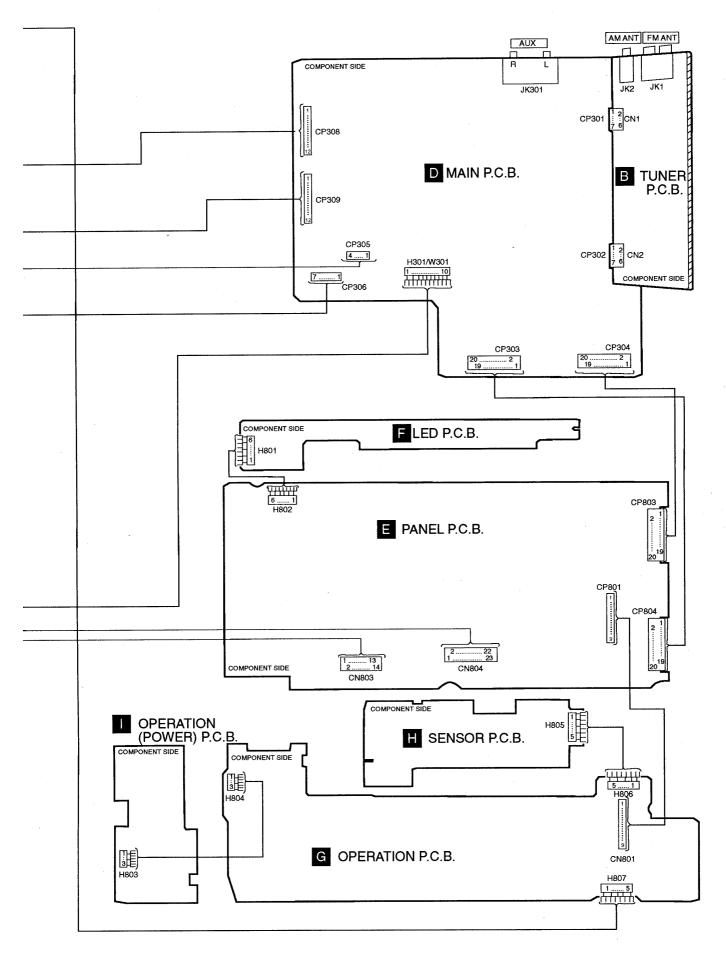
■ Terminal Guide of ICs, Transistors and Diodes

				· · · · · · · · · · · · · · · · · · ·	
AN8389SE1	BH3854AFS-E2	LA1832A LC7218 24 1 1 1 1 1 1 2	AN7345K	AN8835SBE1(28P) BU2090F-E2(16P) BU4052BCF-E2(16P)	BA6418N
BA4558FDXE2 8 1 4	AN78M05	BA7755A	RSN35H1	M38197MA133(100P) MN662741RPA(80P)	2SB709S B E
2SB1185E 2SD1762E BCE	2SB1357ETA 2SD2037ETA B	2SJ40CDTA 2SK381CTA	2SK301QTA	2SA933SSTA 2SC1740SRTA 2SC1740SSTA RVTDTA143XST	BCE
2SC2784FTA 2SD1450STA BA1L4LTA BA1L4ZTA BN1A4MTA		2SC1685RTA 2SC2001KTA 2SC2001L1TA 2SD965RTA	ECB	2SC2785FETA 2SC2785FTA 2SC2787LTA BA1F4MTA BA1L3ZTA BN1L3NTA BN1L4MTA	BCE
1SS291TA MA29WATA RVD1SS133TA	Ca Cathode A Anode	SLR505DCT31	MTZJ12BTA MTZJ15BTA MTZJ15CTA MTZJ5R1CTA MTZJ6R2CTA MTZJ6R8BTA	MTZJ8R2BTA RVDMTZ10BTA RVDMTZ11BTA RVDMTZ13BTA RVDMTZ4R7BTA RVDMTZ5R6BTA	Ca Cathode A Anode
1D3E 1N5402BM21 Ca Cathode Anode					

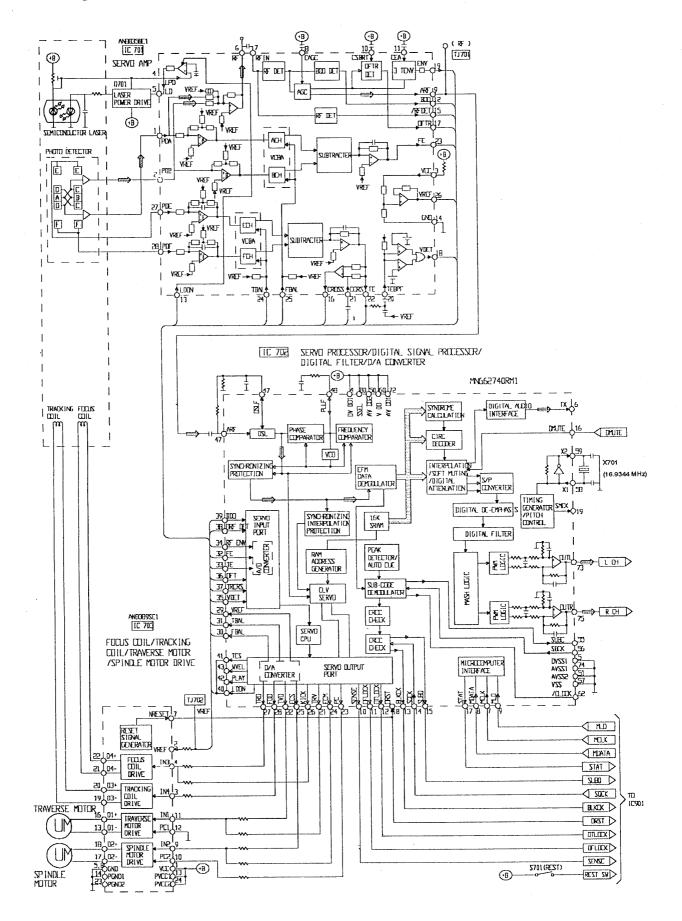




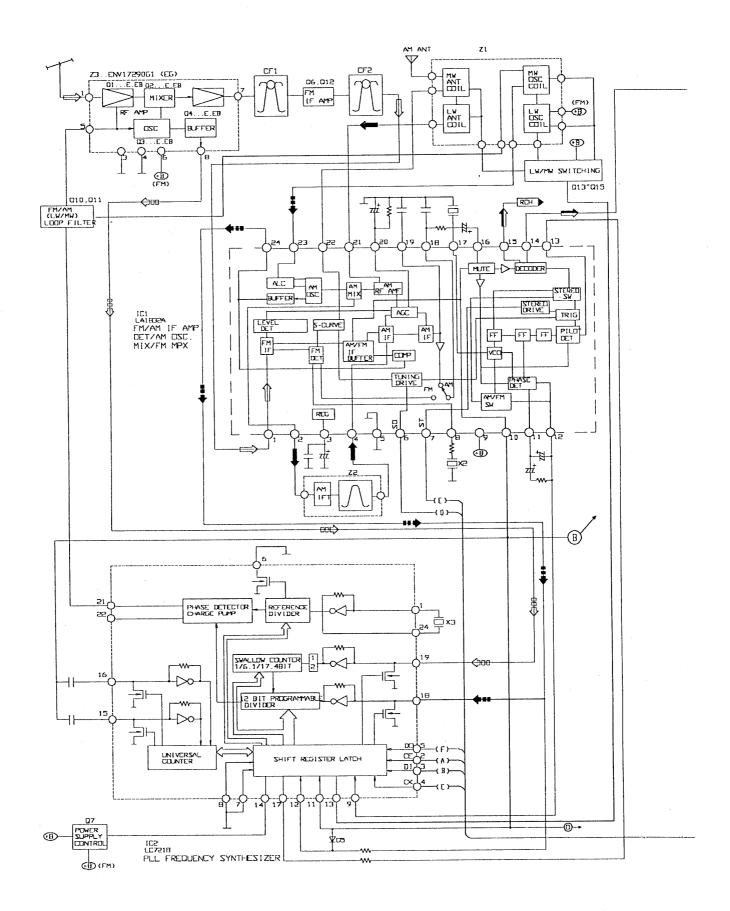
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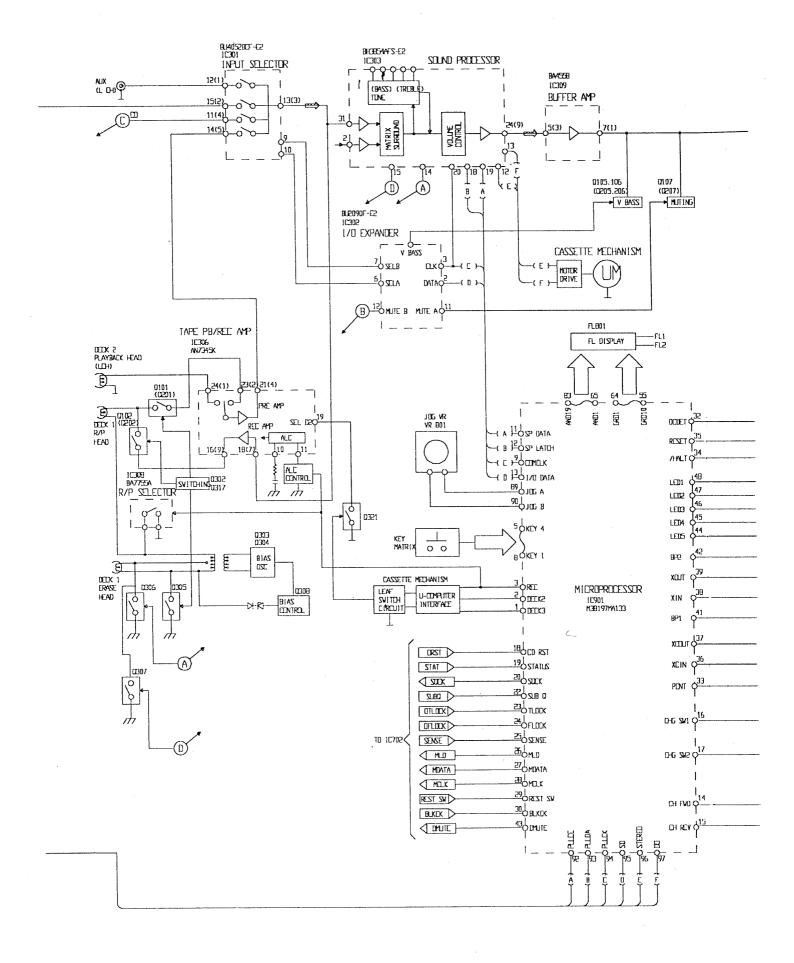
Block Diagram



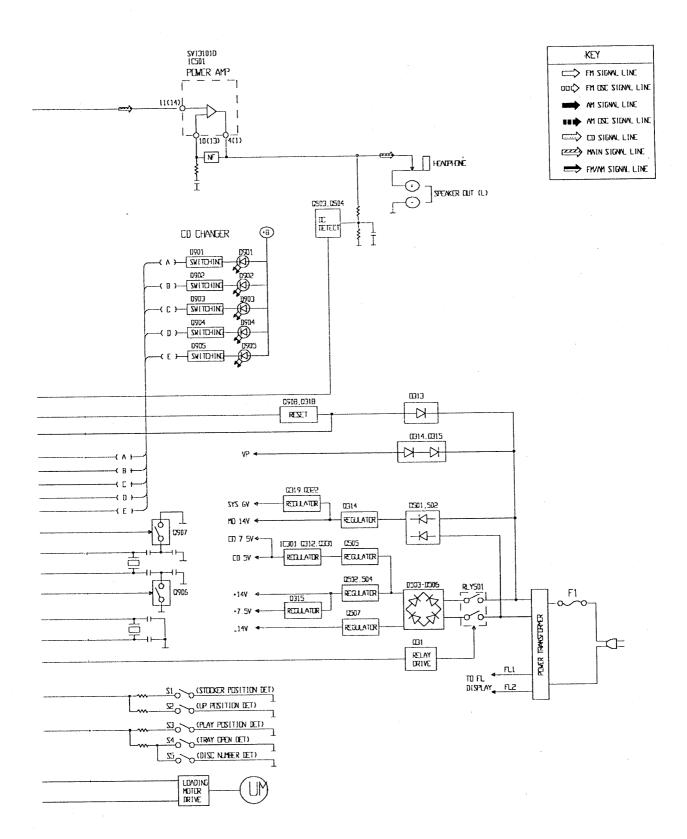
- 22 -



— 23 —



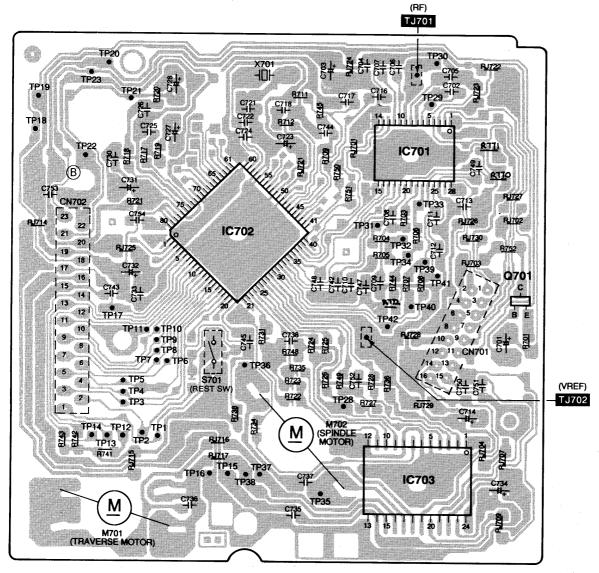
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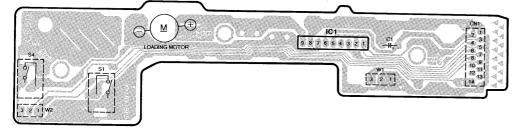
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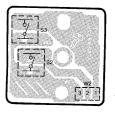
Printed Circuit Board

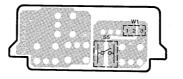
A SERVO P.C.B. (REPX0109)





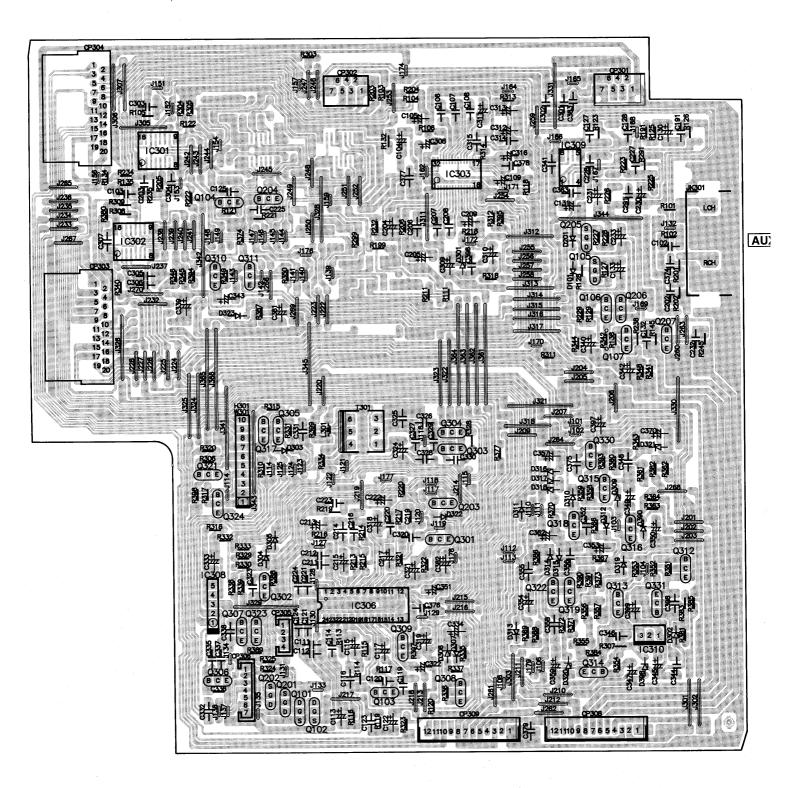




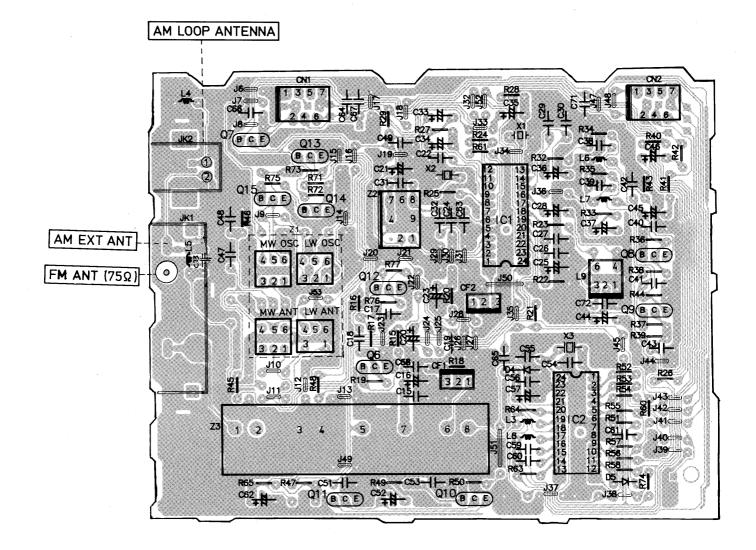


- 26 -

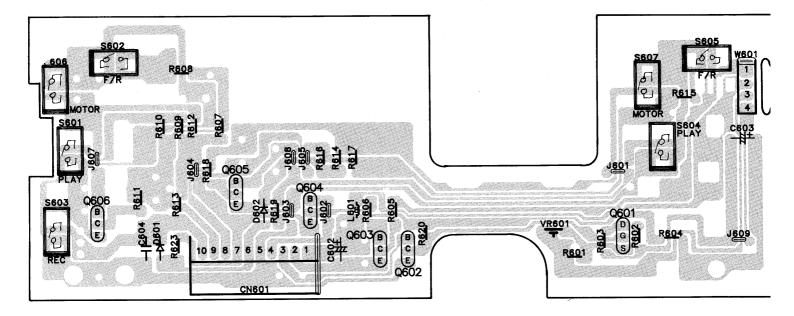
D MAIN P.C.B. (REPX0095B)

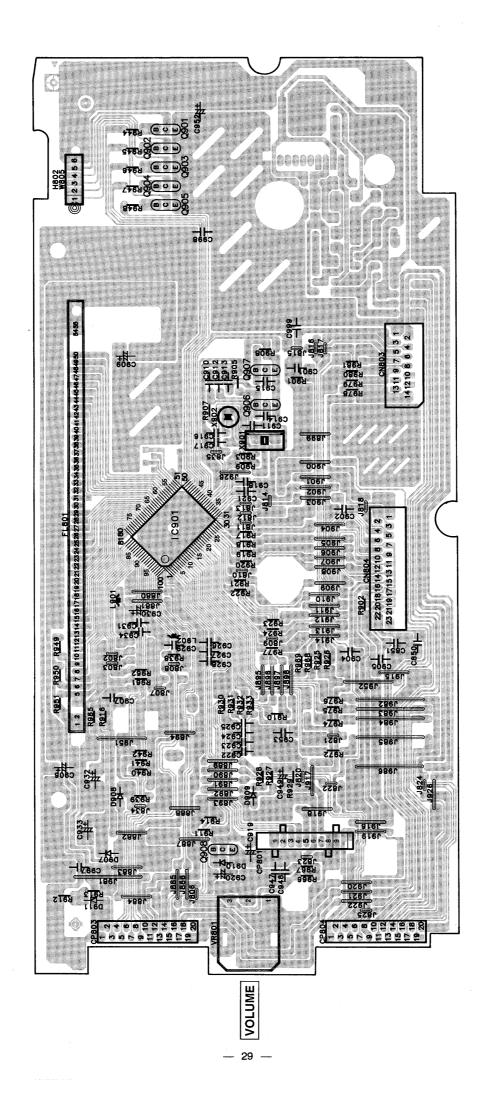


B TUNER P.C.B. (REP2000G)

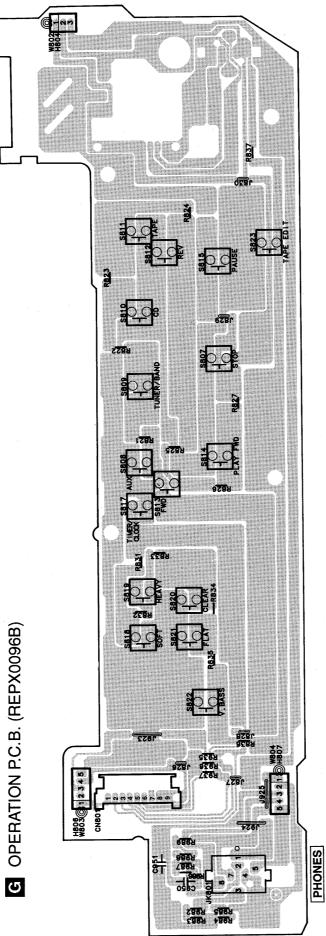


C DECK P.C.B. (REPX0097A)

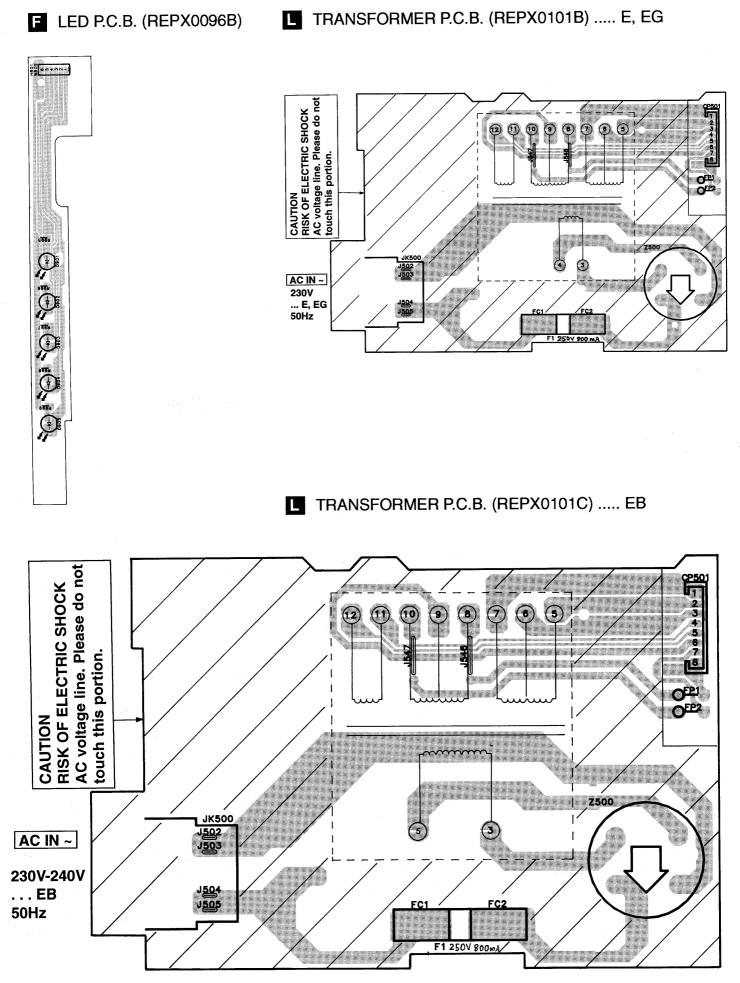




E PANEL P.C.B. (REPX0096B)

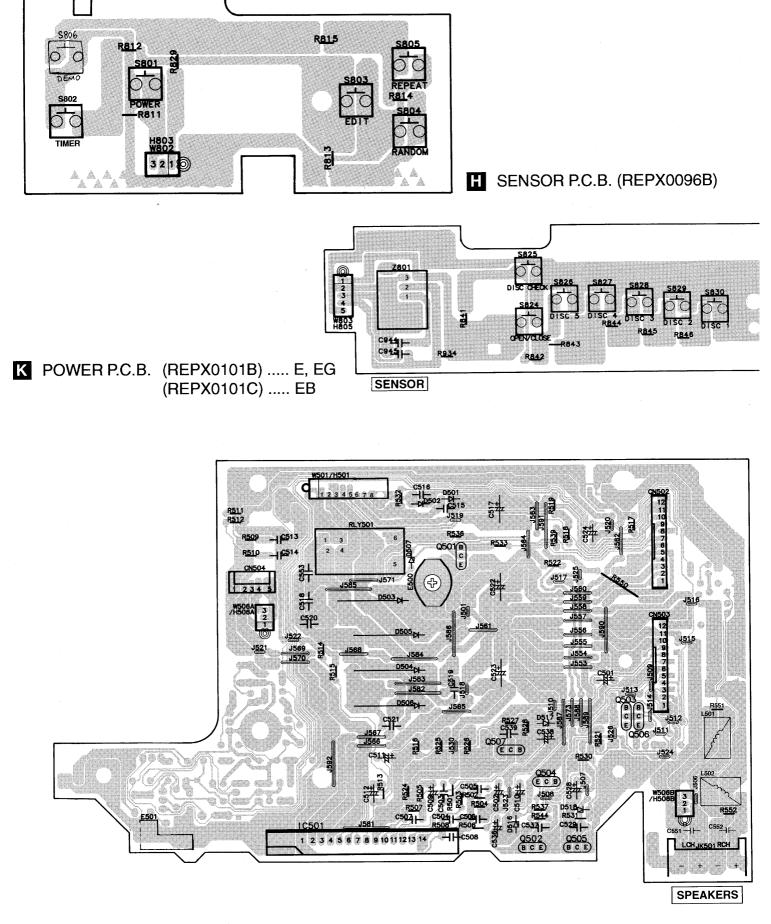


30 —



— 31 —

OPERATION(POWER) P.C.B. (REPX0096B)



Schematic Diagram

(All schematic diagrams may be modified at any time with the development of new technology) Note :

< for Servo circuit > (Page 35) • S701 : Reset switch

< for Panel circuit, Sensor Circuit, Operation Circuit and Operation(Power) circuit > (Page 40)

• S801	:	Powerswitch		• S817	:	Timer/Clock switch
• S802	:	Timer switch	· · · · · ·	• S818	:	Soft switch
• S803	:	Easy Edit switch		• S819	:	Heavy switch
• S804	:	Random switch		• S820	:	Clear switch
• S805	:	Repeat switch		• S821	:	Flat switch
 \$806 	· •	Demo switch		• S822	:	V. Bass switch
• S807	:	Stop switch		• S823	:	Tape Edit switch
• S808	:	AUX switch		• S824	:	CD Open/Close switch
• S809	:	Tuner/Band switch		• S825	:	CD Disc Check switch
• S810	:	CD switch		• S826	:	CD Disc 5 switch
• S811	:	Tape switch		• S827	:	CD Disc 4 switch
• S812	:	Reverse skip switch		• S828	:	CD Disc 3 switch
• S813	:	Forward skip switch		• S829	:	CD Disc 2 switch
• S814	:	Play forward switch		• S830	:	CD Disc 1 switch
• S815	:	Pause switch		• VR801	:	Volume control

< for Deck circuit > (Page 44)

• S601	:	Deck 1 Tape Playback switch.
 S602 	:	Deck 1 Fastwind select switch.
 S603 	:	Deck 1 Record select switch.
• S604	:	Deck 2 Tape Playback switch.
• S605	:	Deck 2 Fastwind select switch.
 S606 	:	Deck 1 Motor switch.
• S607	:	Deck 2 Motor switch.
• VR601	:	Tape speed adjustment.

< for Loading Motor circuit > (Page 45)

• S1, S4 : Leaf switch.

• S2, S3, S5 : Mecha switch.

•Signal line

: +Bline	IIII	: AM signal line
:Bline	∅ ∅ ∅ ↓ : Record signal line	: AM OSC signal line
: FM/AM signal line	: CD signal line	IIII : FM OSC signal line
: Main signal line	FM signal line	IIIII

•The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis.

Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

No mark : Playback << >>......Rec { } : Tuner (()) : CD ()AM < >FM

•Importance safety notice:

Components identified by \triangle mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

Caution!

IC, LSI and VLSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

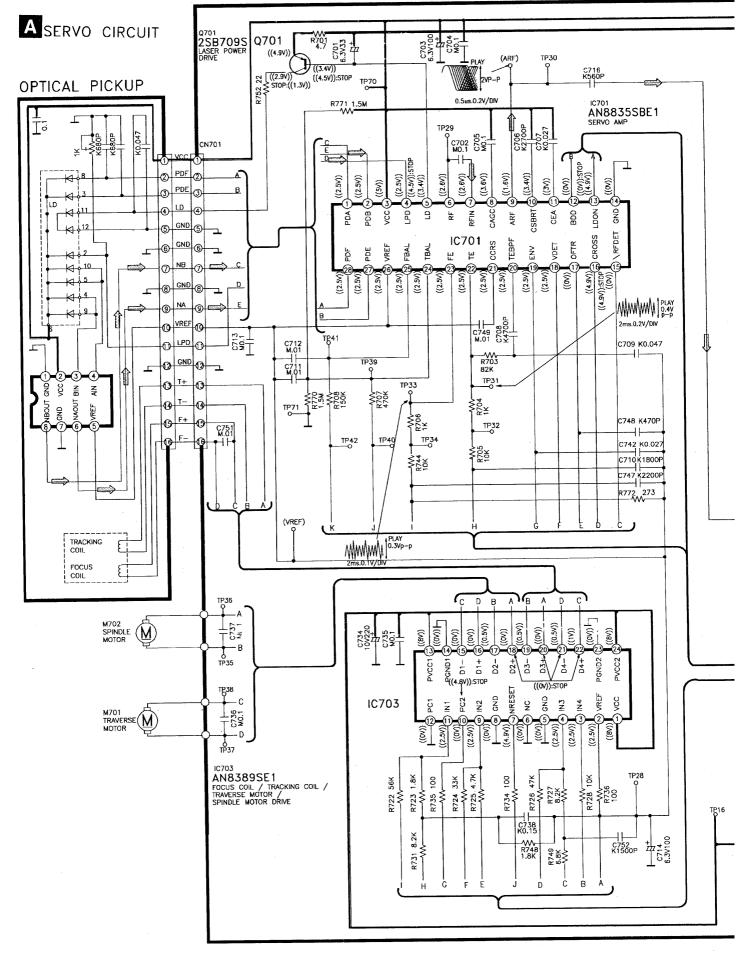
•Cover the parts boxes made of plastics with aluminium foil.

•Put a conductive mat on the work table.

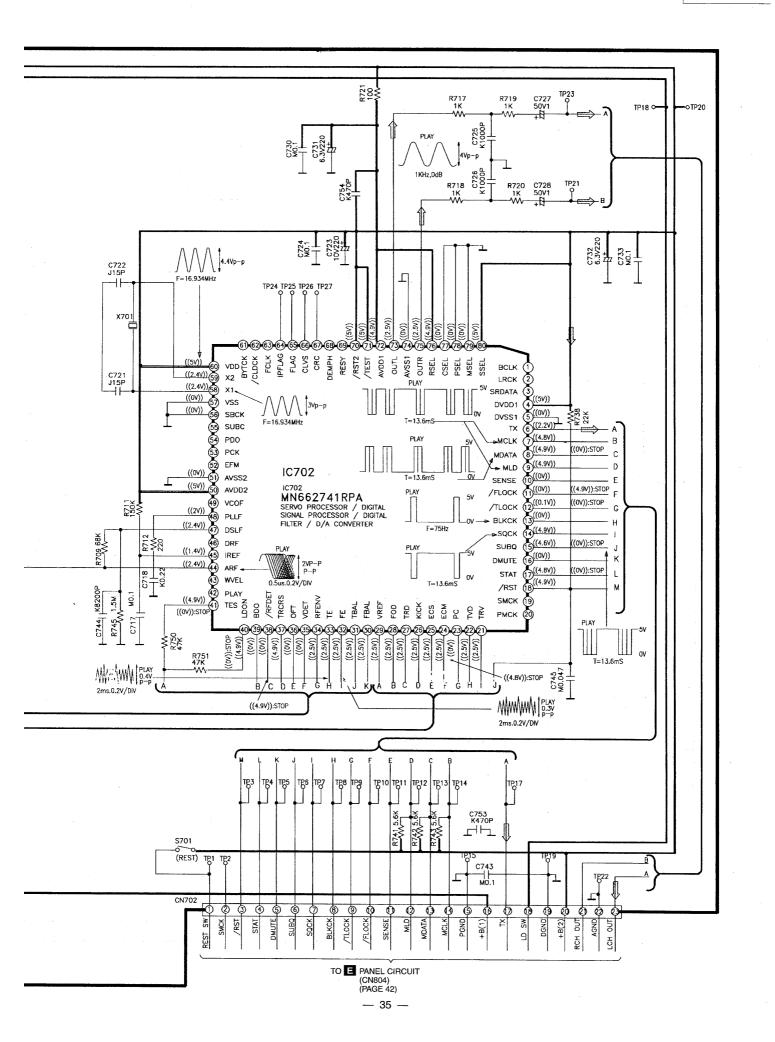
•Ground the soldering iron.

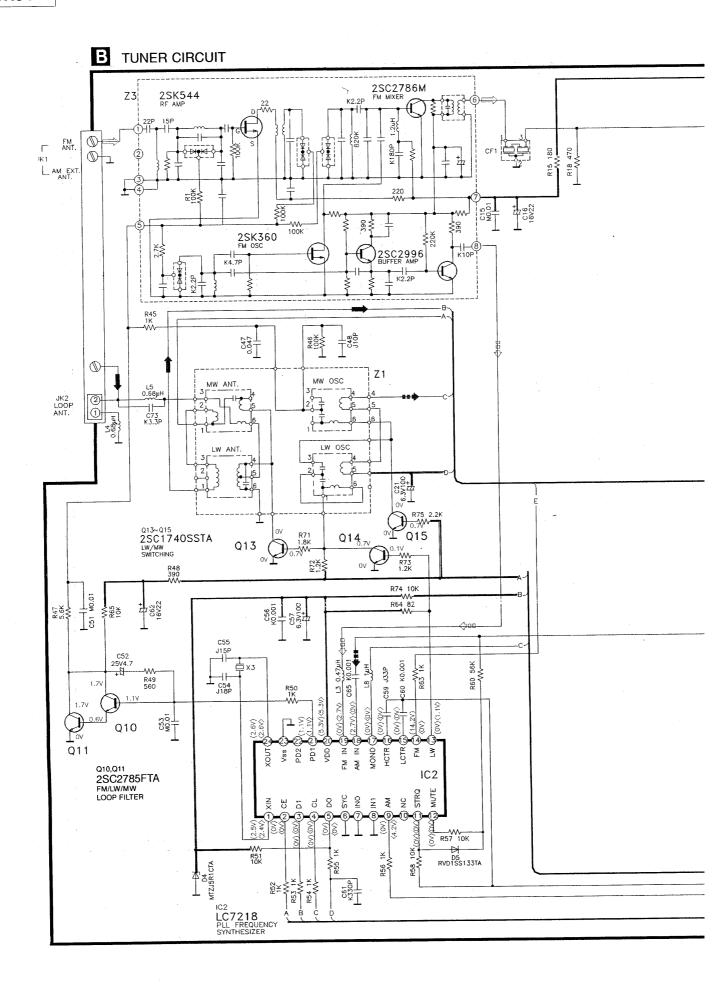
•Do not touch the pins of IC, LSI or VLSI with fingers directly.

Schematic Diagram

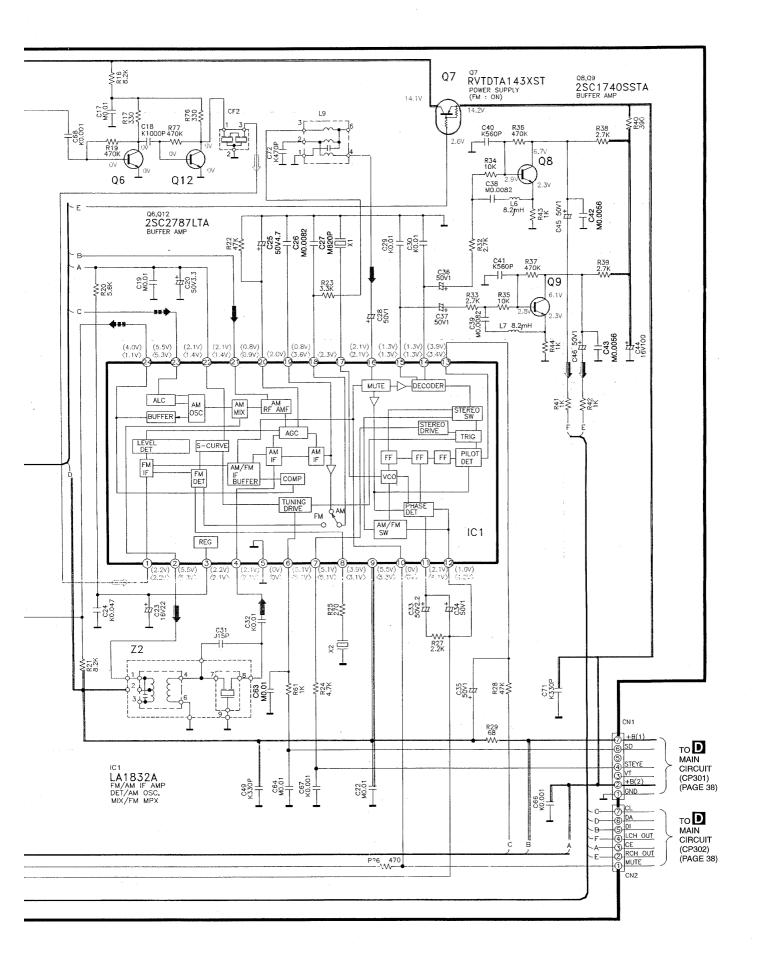


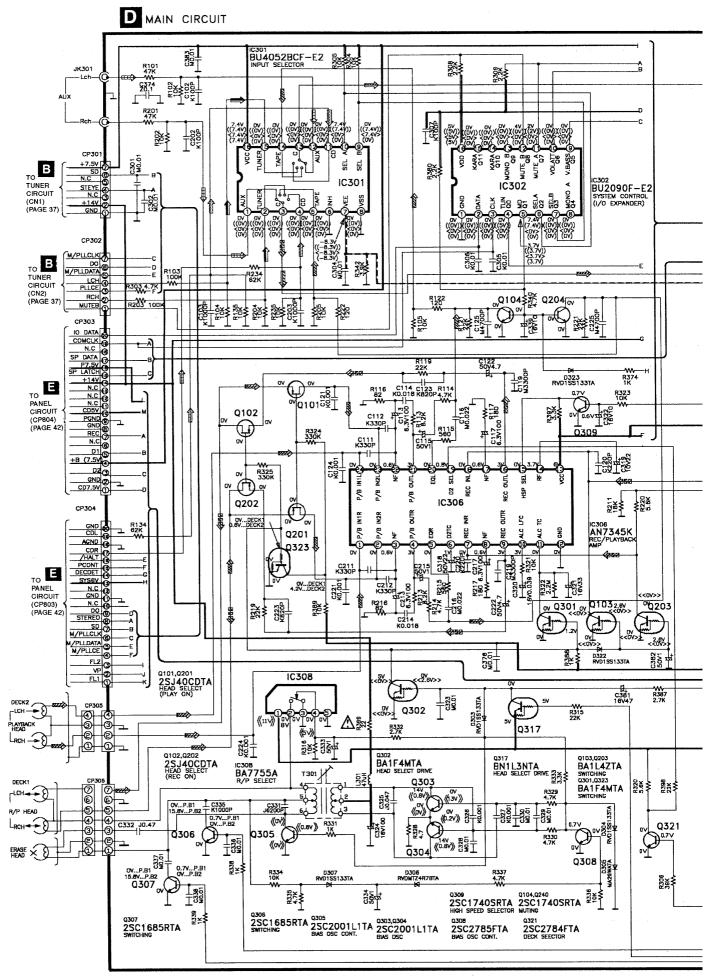
— 34 —

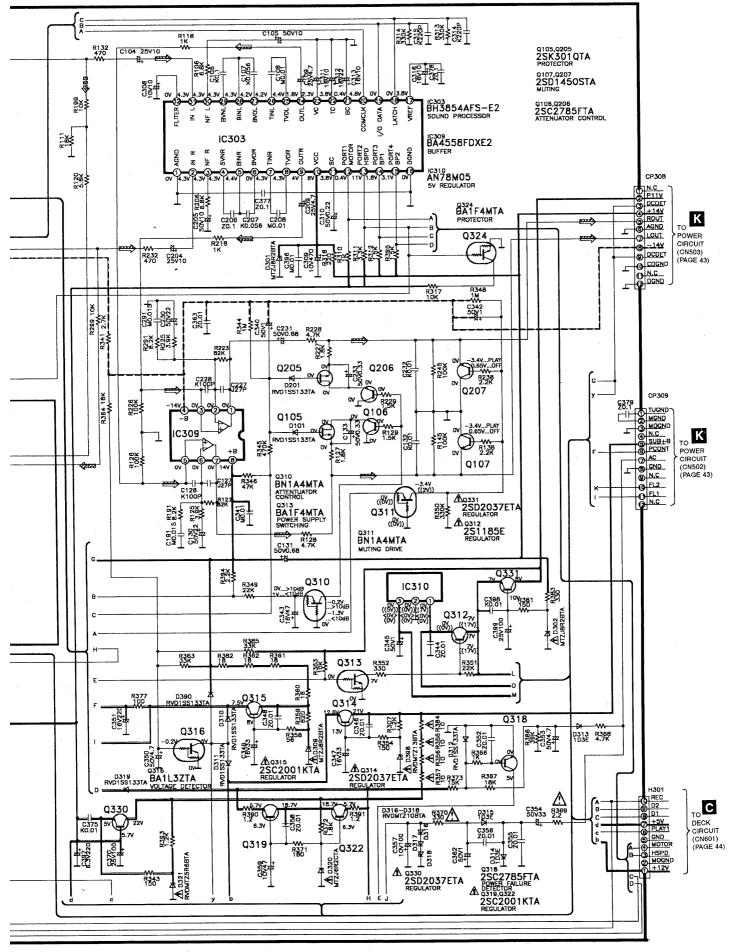




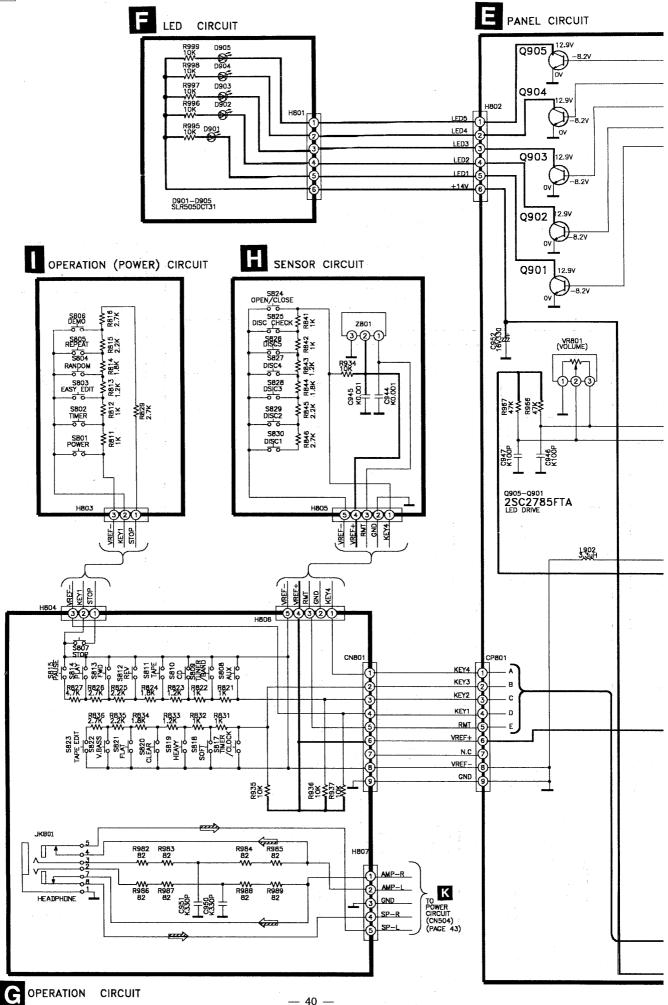
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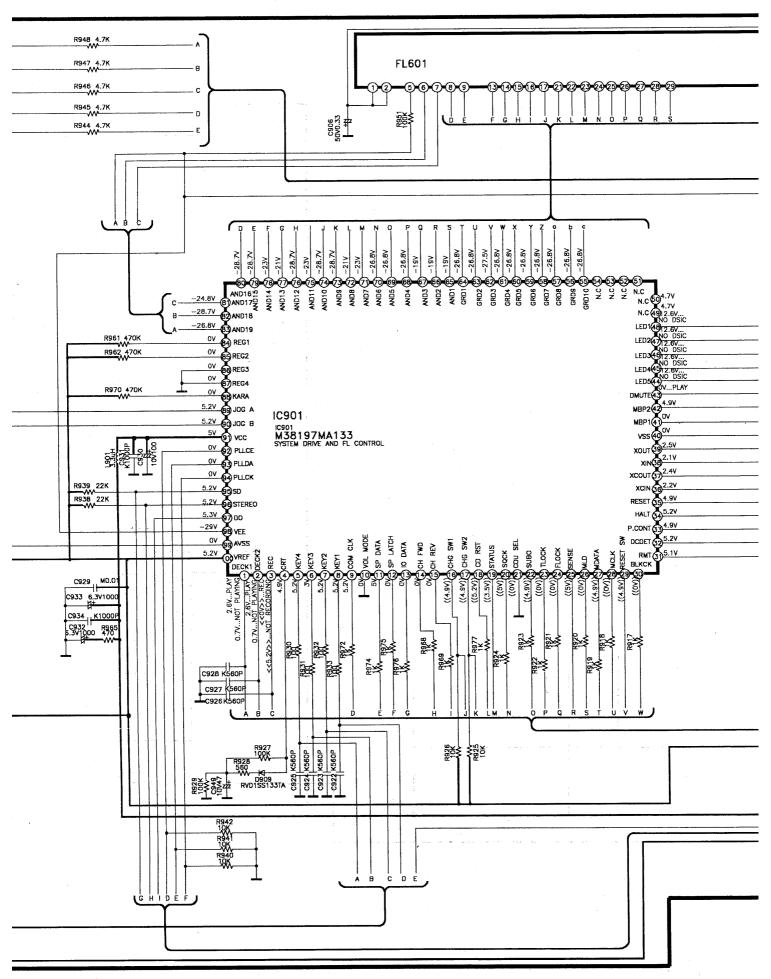




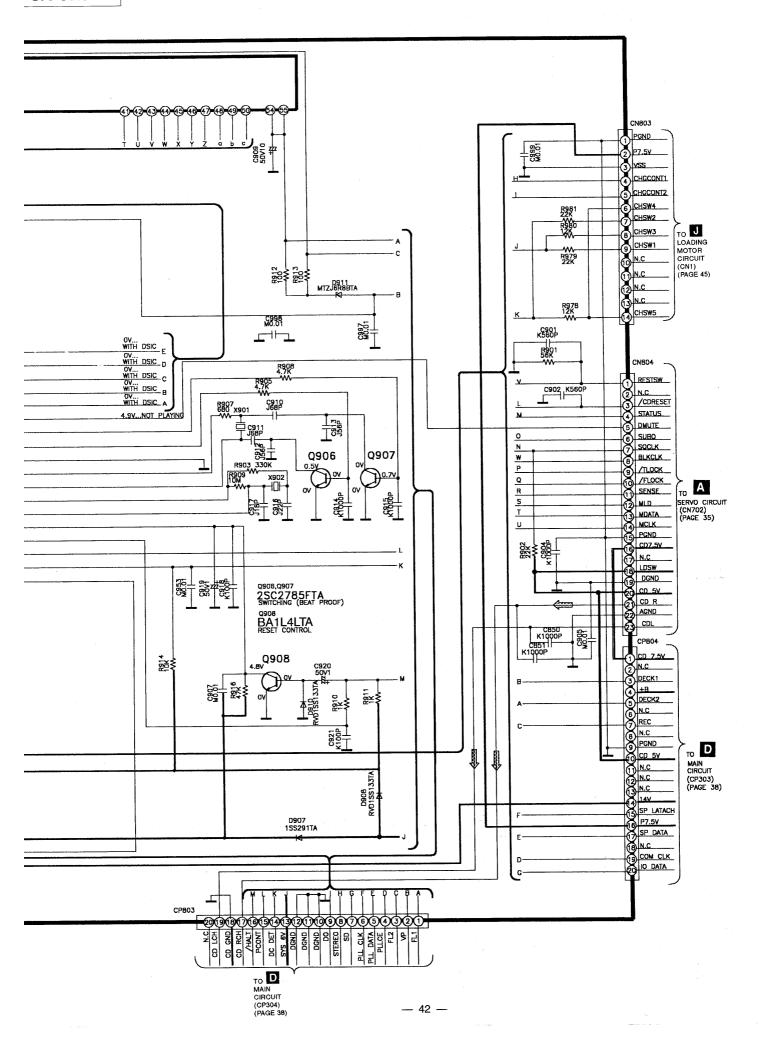


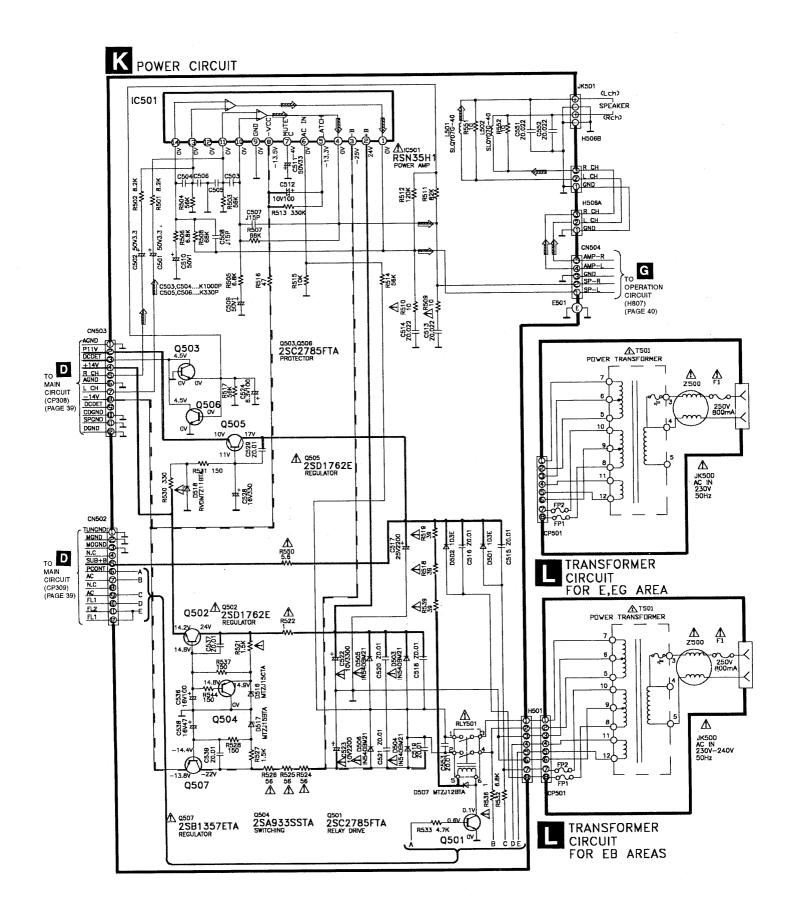
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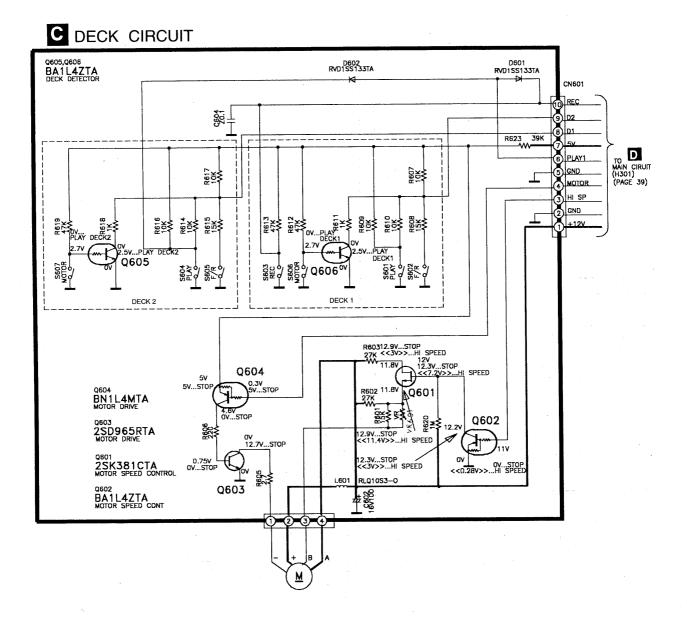




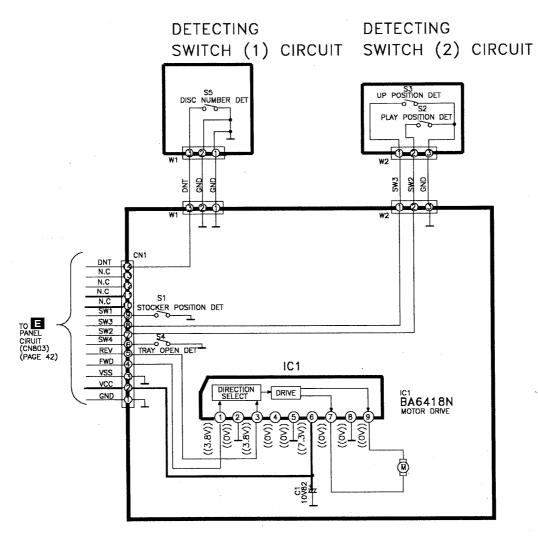
— 41 —





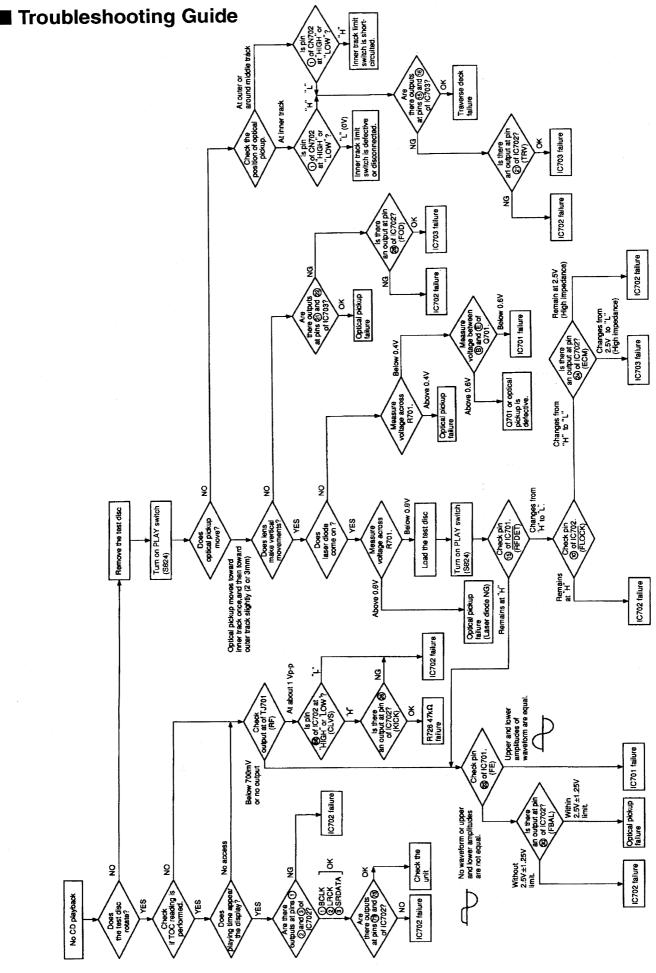


— 44 —



J LOADING MOTOR CIRCUIT



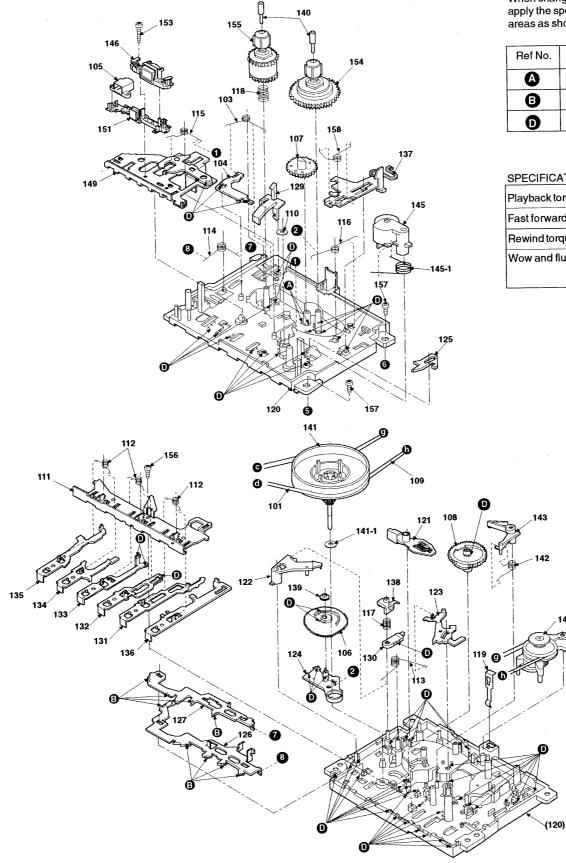


Mechanism Parts List Note : [M] mark in Remarks column indicates parts that are supplied by MESA.

Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
		CASSETTE DECK 1		145-1	RMB0049	PINCH ARM SPRING	[M]	239	RMR0227	IDLER GEAR BUSH	[M]
				146	RFKRXDT30PK	R/PHEAD	[M]	240	RMS0055	REELSHAFT	[M]
101	RDV0007	MAINBELT	[M]	149	RFKRACH46GCK	HEAD PANEL ASS'Y	[M]	241	RXF0012	FLYWHEELASS'Y	[M]
103	RMB0109-1	BRAKESPRING	[M]	151	RMQ0383	HEAD BASE (DECK 1)	[M]	241-1	RHW21008	WASHER	[M]
104	RML0116	BRAKEANGLE	[M]	153	XTN2+14F	SCREW	[M]	242	RMB0044	TRIGGERSPRING	[M]
105	RBR2CG002-S	E HEAD	[M]	154	RXR0004	TAKE UP REEL ASS'Y	[M]	243	RML0075	TRIGGERLEVER	[M]
106	RDG0057	IDLER GEAR	[M]	155	RXR0005	SUPPLY REEL ASS'Y	[M]	244	RXP0014	RF CLUTCH ASSY	[M]
107	RDG0059	FF RELAY GEAR	[M]	156	XTN2+6J	SCREW		245	RXP0015	PINCHROLLERASSY	[M]
108	RDK0005	CAMGEAR	[M]	157	XTW26+6L	SCREW		245-1	RMB0049	PINCHARMSPRING	[M]
109	RDV0006-1	RFBELT	[M]	158	RME0098-2	SPRING	[M]	246	RFKRXDT30PK	R/PHEAD	[M]
110	RHW16009	CAPSTAN WASHER	[M]					249	RMA0696	HEAD PANEL	[M]
111	RMA0109	BACK PLATE	[M]			CASSETTE DECK 2		251	RMQ0384	HEAD BASE (DECK 2)	[M]
112	RMB0043-1	RODOPERATIONSPRING	[M]					253	XTN2+14F	SCREW	[M]
113	RMB0045	ASSPRING	[M]	201	RDV0009	MAIN BELT B	[M]	254	RXR0004	TAKE UP REEL ASS'Y	[M]
114	RMB0046-1	LOCK PLATE SPRING	[M]	203	RMB0109-1	BRAKESPRING	[M]	255	RXR0005	SUPPLY REEL ASS'Y	[M]
115	RMB0165	HEAD PANEL SPRING	[M]	204	RML0116	BRAKE	[M]	256	XTN2+6J	SCREW	
116	RMB0048	IDLERLEVERSPRING	[M]	206	RDG0057	IDLER GEAR	[M]	257	XTW26+6L	SCREW	
117	RMB0053	PAUSELEVERSPRING	[M]	207	RDG0059	FF RELAY GEAR	[M]	258	RME0098-2	SPRING	[M]
118	RMB0125	BACK TENSION SPRING	[M]	208	RDK0005	CAMGEAR	[M]	260	RFKPXDT610PK	DC MOTOR ASS'Y	[M]
119	RMC0061	SPRING	[M]	209	RDV0006-1	RFBELT	[M]	261	RHD26002	SCREW	
120	RFKRCT090P-K	CHASSIS ASS'Y	[M]	210	RHW16009	CAPSTANWASHER	[M]	262	RMA0122	ANGLE	[M]
121	RML0071	SWAYLEVER	[M]	211	RMA0109	BACKPLATE	[M]	263	RMG0102	RUBBERSPACE	[M]
122	RML0072	AS RELEASE LEVER	[M]	212	RMB0043-1	RODOPERATIONSPRING	6 [M]	264	RMG0131	RUBBERSPACE	[M]
123	RML0073-1	AS PROTECT LEVER	[M]	213	RMB0045	ASSPRING	[M]	265	RMA0121	ANGLE	[M]
124	RML0074	IDLERLEVER	[M]	214	RMB0046-1	LOCK PLATE SPRING	[M]	266	RML0085	LEVER	[M]
125	RML0076	EJECTSELECTIONLEVER	[M]	215	RMB0165	HEAD PANEL SPRING	[M]				
126	RML0077	LOCK PLATE	[M]	216	RMB0048	IDLER LEVER SPRING	[M]				
127	RML0078	FUNCTION PLATE	[M]	217	RMB0053	PAUSELEVERSPRING	6 [M]				
129	RML0081-1	LEVER	[M]	218	RMB0125	BACKTENSIONSPRING	6 [M]][
130	RML0082	PAUSELEVER	[M]	219	RMC0061	SPRING	[M]				
131	RMM0023	PLAY ROD	[M]	220	RFKRCT090P-K	CHASSIS ASS'Y	[M]				
132	RMM0024	REWROD	[M]	221	RML0071	SWAYLEVER	[M]				
133	RMM0025	FF ROD	[M]	222	RML0072	ASRELEASELEVER	[M]				
134	RMM0026	STOP ROD	[M]	223	RML0073-1	ASPROTECTLEVER	[M]				
135	RMM0027	PAUSEROD	[M]	224	RML0074	IDLERLEVER	[M]				
136	RMM0028	REC ROD	[M]	225	RML0076	EJECTSELECTIONLEVE	R [M]				
137	RMM0029	EJECT SLIDE LEVER	[M]	226	RML0077	LOCK PLATE	[M]				
138	RMR0211	PAUSEBUSH	[M]	227	RML0078	FUNCTION PLATE	[M]				
139	RMR0227	IDLERGEARBUSH	[M]	230	RML0082	PAUSELEVER	[M]				
140	RMS0055	REELSHAFT	[M]	231	RMM0023	PLAY ROD	[M]				
141	RXF0012	FLYWHEELASS'Y	[M]	232	RMM0024	REW ROD	[M]				
141-1	RHW21008	WASHER	[M]	233	RMM0025	FF ROD	[M]				
142	RMB0044	TRIGGERSPRING	[M]	234	RMM0026	STOP ROD	[M]				-
143	RML0075	TRIGGERLEVER	[M]	235	RMM0027	PAUSE ROD	[M]				
144	RXP0014	RFCLUTCHASS'Y	[M]	237	RMM0029	EJECTSLIDELEVER	[M]				
145	RXP0015	PINCH ROLLER ASS'Y	[M]	238	RMR0211	PAUSEBUSH	[M]				

■ Mechanism Parts Location (RAA0910)

DECK 1 (For recording and playback)



Note:

When changing mechanism parts, apply the specified arrow indicated areas as shown in the drawing.

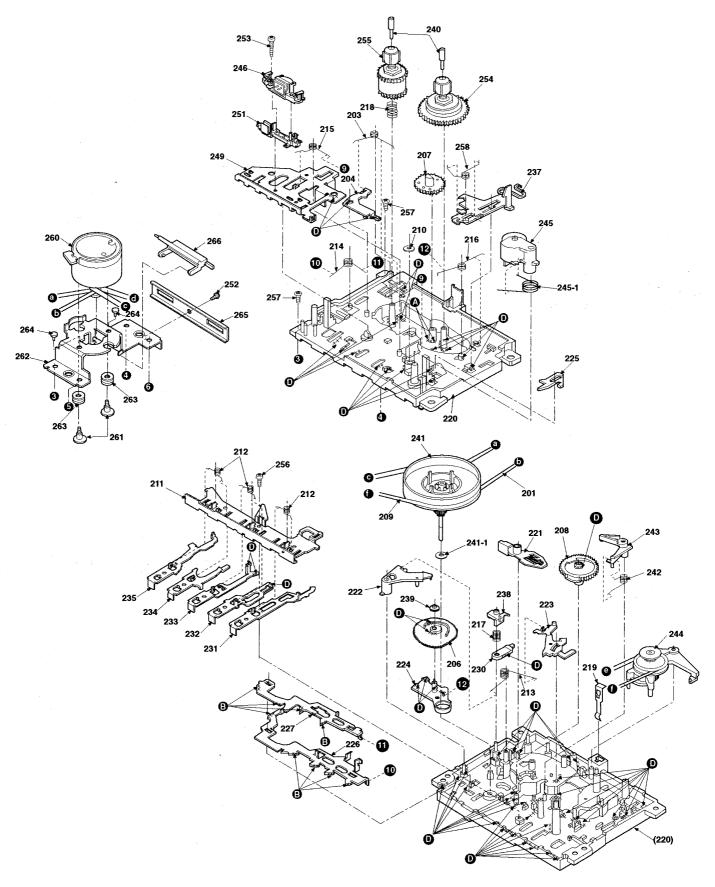
Ref No.	Part Name
A	SZZ0L25
B	SZZ0L06
D	SZZ0L30

SPECIFICATION

Playback torque	25~50 g.m
Fast forward torque	e 65~130g.m
Rewind torque	65~130 g.m
Wow and flutter	Lessthan
	0.25%(WRMS)

Mechanism Parts Location (RAA0910)

DECK 2 (For playback only)



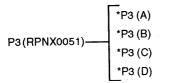
SA-CH34	ļ
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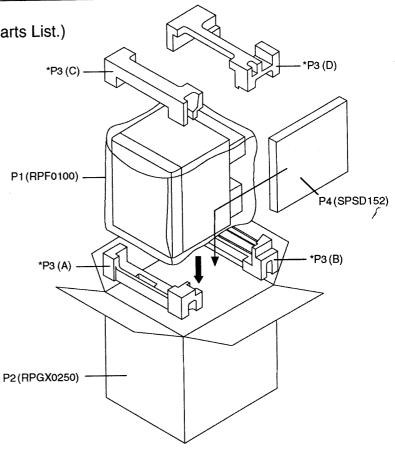
CD Loading Unit Parts List Note : [M] mark in Remarks column indicates parts that are supplied by MESA.

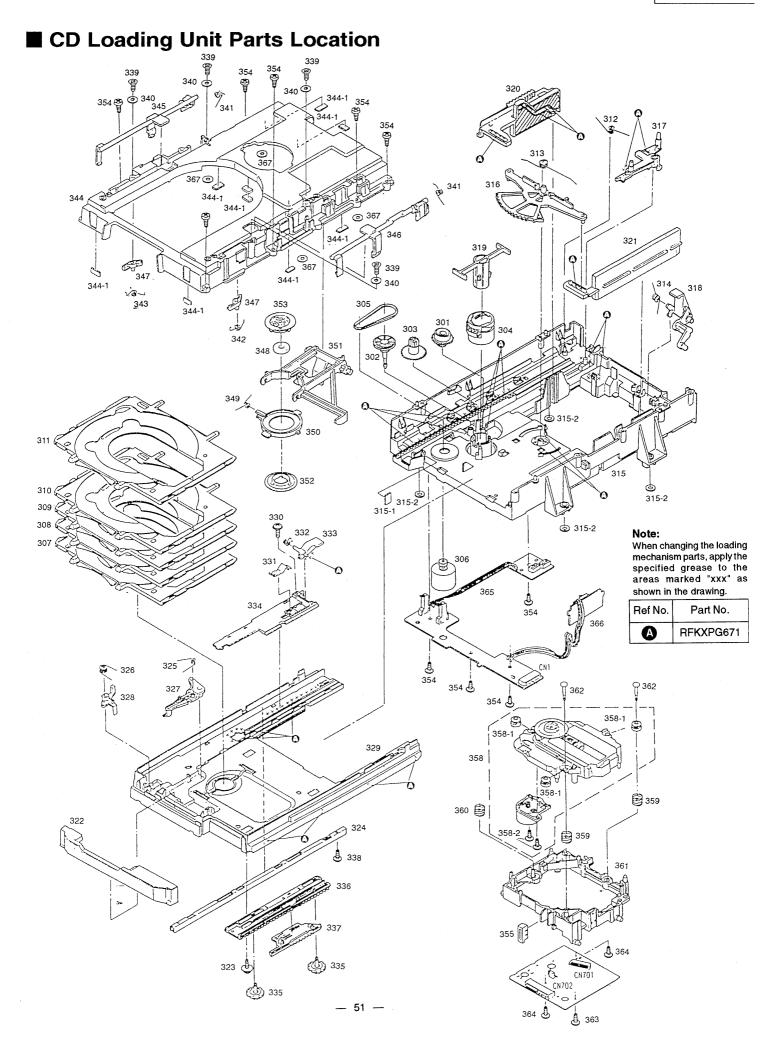
lote : [[M] mark in Re	marks column indica	tes parts	inala	e supplied by						
Ref No	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
		LOADING MECHANISM		321	RMM0141	SLIDE PLATE LEVER (2		344-1	RMF0221	FELT	
		-		322	RGQ0175-K	TRAYORNAMENT		345	RML0381	HOLDING CATCH (1)	
301	RDG0309	RELAYGEAR	[M]	323	RHD20010	SCREW DRIVE RACK	[M]	346	RML0382	HOLDING CATCH (2)	
	RDG0310	PULLEY GEAR	[M]	324	RMA0868	SUPPORT ANGLE	[M]	347	RML0384	UP PREVENTION LEVER	[M]
	RDG0311	DRIVEGEAR	[M]	325	RME0171	BASELOCK LEVER SP.		348	RHM245ZA	MAGNET	[M]
	RDG0313	UP/DOWNGEARLEVER		326	RME0172	CARRIERLOCKLEVERSP.		349	RME0174	CLAMPBASESPRING	
305	RDV0036		[M]	327	RML0377	BASELOCKLEVER		350	RFKNACH430GE	CLAMP BASE ASS'Y	
	RFKPDS790PK1	MOTORASS'Y	[M]	328	RML0378	CARRIERLOCKLEVER		351	RML0388-1	CLAMPLEVER	
307	RGQ0170-K	TRAY 1	[M]	329	RMR0884-K	TRAYBASE		352	RMR0761-W	MAGNETHOLDERLEVER	3
308	RGQ0171-K	TRAY 2	[M]	330	RHD20009-1	SCREWCARRIER		353	RMR0899-K	FIXED PLATE	L
309	BGQ0172-K	TRAY 3	[M]	331	RMC0274	TRAY FOOK SPRING	[M]	354	XTB3+10JFZ	SCREW PB, LID	
310	RGQ0173-K	TRAY 4		332	RME0173	CARRIERARMSPRING		355	RMR0975-W	TRVCAP	
311	RGQ0174-K	TRAY 5		333	RML0376-1	CARRIERARM		358	RAE0150Z	TRAVERSEUNIT	
312	RME0170	LOCKLEVERSPRING	[M]	334	RMM0137	CARRIERLEVER		358-1	SHGD113-1	FLOATING RUBBER	
313	RME0179	ASSISTSPRING	[M]	335	RDG0312	SPEED UP GEAR	[M]	358-2	SNSD38	SCREW	
314	RME0180	TRAY HOLDER SPRING	ì	336	RMM0134	DRIVE RACK	[M]	359	RME0109	FLOATING SPRING (1)	
315	RFKNACH430GC	MECHA BASE ASS'Y		337	RMM0135	CUSHION RACK	[M]	360	RME0142	FLOATING SPRING (2)	
315-1	BMF0221	FELT		338	XTN2+6F	SCREWSUPPORTANGLI	[M]	361	RMK0293	TRAVERSECHASSIS	[M]
	RMG0402-K	RUBBER WASHER		339	XTS3+8J	SCREW		362	RMS0123-1	FIXED PIN	
316	BML0379	CHANGELEVER	[M]	340	XWE4E10	CUSHION		363	XTN2+6G	SCREW	
317	BML0380	LOCKLEVER	[M]	341	RME0178	HOLDINGSPRING		364	XTV2+6G	SCREW	_
318	RML0383	TRAYHOLDINGLEVER	1	342	RME0181	UP PREVENTION SP (R) [M]	365	REZ0792	3P WIRE KIT	
319	RML0385	UP/DOWNLEVER	1	343	RME0182	UP PREVENTION SP (L) [M]	366	REZ0793	3P WIRE KIT	
320	RMM0139	SLIDE PLATE LEVER (1	344	RFKNACH430GI	MECHA COVER ASS"	1	367	RMG0430-Q	RUBBER TUBE	

■ Packaging (Refer to page 56 for the Parts List.)

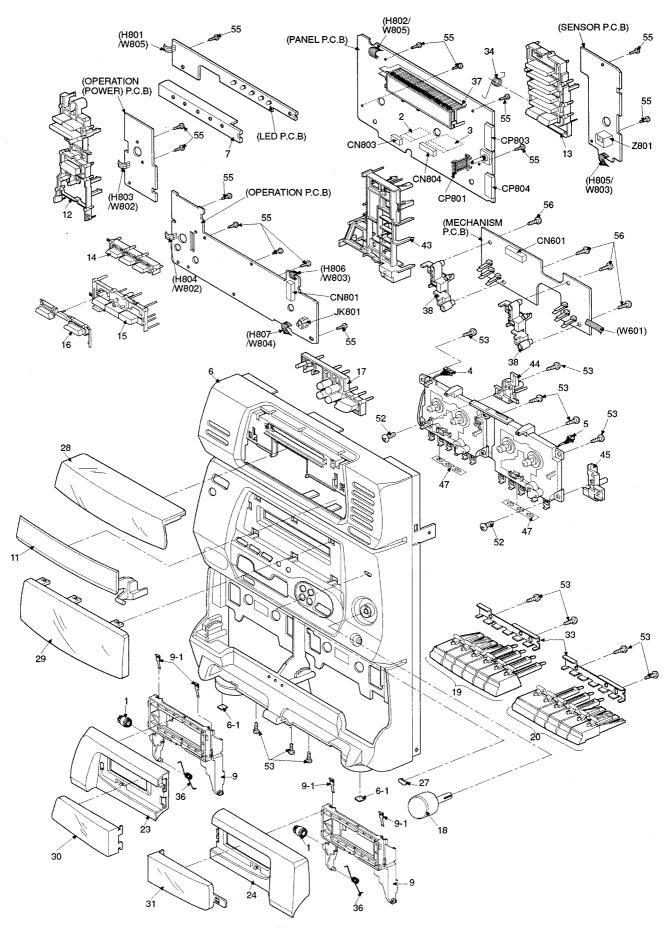
P4 (SPSD152)	: ACCESSORY CASE
A1 (EUR643805)	REMOTE CONTROL
P5(XZB24X33C04)	: VINYL BAG
A2 (RQT3304-B EB) A2 (RQT3305-D EG) A3 (RSA0007)	: INSTRUCTION MANUAL ASS'Y : INSTRUCTION MANUAL : INSTRUCTION MANUAL : FM ANTENNA : AM LOOP ANT : AC CORD : AC CORD



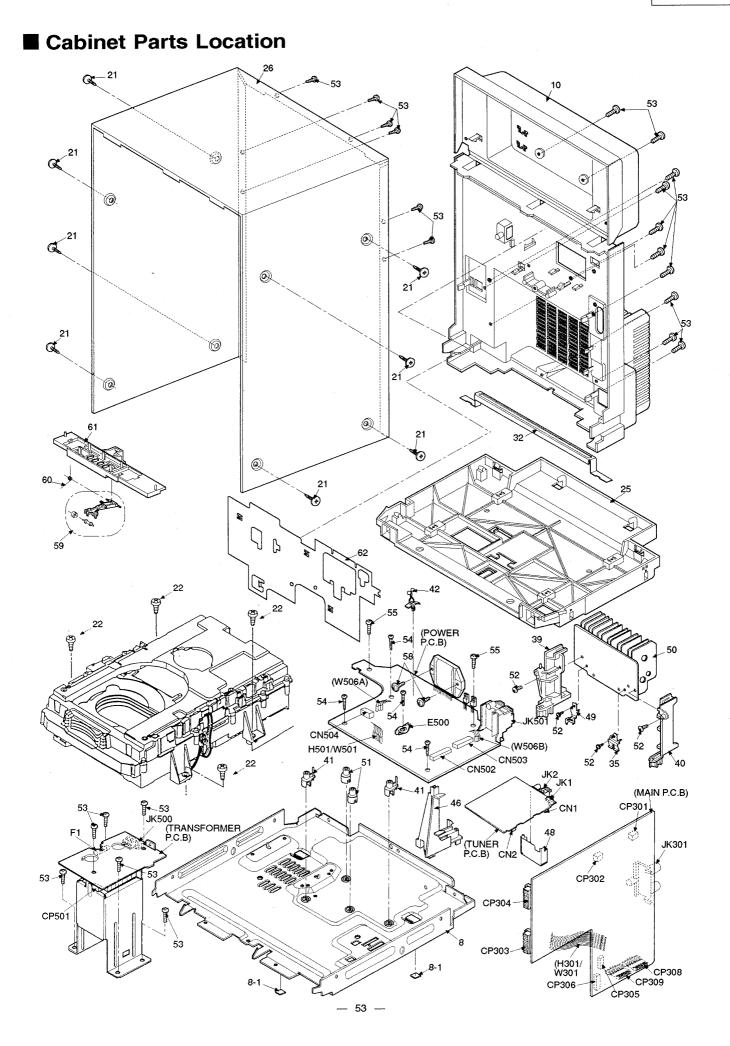




Cabinet Parts Location



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Replacement Parts List

Important safety notice : Notes: ٠

Components identified by A mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list. The parenthesized indications in the Remarks column specify the areas. (refer to the cover page for area.)

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- - Die lasereinheit darf nur gegen eine vom hersteller spezifizierte einheit ausgetauscht werden.

					1						
Ref No.	Part No.	Part Name & Description	Remarks	Ref No	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHAS	sis	33	RMAX0006	ANGLE PLATE	[M]	IC308	BA7755A	IC, SWITCH	
				34	RMB0447	CD LID SPRING	[M]	IC309	BA4558FDXE2	IC, OP AMP	[M]
1	RDG5874ZB	DAMPER GEAR	[M]	35	RMC0158-S	TR FIXTURE	[M]	IC310	AN78M05	IC, 5V REGULATOR	
2	REE0657	14P FFC		36	RMEX0002	CASS.OPENSPRING	[M]	IC501	RSN35H1	IC, HYBRID	Λ
3	REE0658	23P FFC		37	RMNX0011	FLHOLDER	[M]	IC901	M38197MA133	IC, MICRO PROCESSOR	[M]
4	REXX0120	SHIELD WIRE (REC)	[M]	38	RMR0368	PCBCHASSIS	[M]				
5	REXX0121	SHIELD WIRE (PLAY)	[M]	39	RMR0653-K	HEATSINKSUPPORT(L)	[M]			TRANSISTORS	
 6	RFKGACH34EK	FRONT PANEL ASS'Y	[M]	40	RMR0654-K	HEATSINKSUPPORT(R)	[M]				
6-1	RKA0059-K	LEG RUBBER	[M]	41	RMR0741-X	PCB SUPPORT (PIN)	[M]	Q6	2SC2787LTA	TRANSISTOR	
7		5-LED REFLECTOR ASSY		42	RMR0824-W	WIRECLAMPER		Q7	RVTDTA143XST	TRANSISTOR	
		BOTTOMCHASSIS ASS'Y		43	RMR0908-X	PANEL PCB SUPPORT	[M]	Q8	2SC1740SSTA	TRANSISTOR	
 8-1	RKA0059-K		[M]	44	RMRX0007	MECHA SUPPORT (L)	[M]	Q9	2SC1740SSTA	TRANSISTOR	
9	RFKLACH34PK		[M]	45	RMRX0008	MECHA SUPPORT (R)	[M]	Q10	2SC2785FETA	TRANSISTOR	
9-1	RUS757ZAA		[M]	46	RMRX0022	MAINPCBHOLDER	[M]	Q11	2SC2785FETA	TRANSISTOR	
10		REAR PANEL ASS'Y	[M](EB)	47	RMXX0004	MECHASPACER	[M]	Q12	2SC2787LTA	TRANSISTOR	
10	RKFX0043A-K	REAR PANEL	[M](E,EG)	48	RSC0403	TUNER SHIELD PLATE	[M]	Q13	2SC1740SSTA	TRANSISTOR	
11	RGK0767A-K	CHANGERLID	[M]	49	RSC0362	EARTHTERMINAL	[M]	Q14	2SC1740SSTA	TRANSISTOR	
12	BGU1303B-K	POWERBUTTON	[M]	50	RXXX0005	HEAT SINK UNIT	[M]	Q15	2SC1740SSTA	TRANSISTOR	
13	RGU1304A-K	DISKBUTTON	[M]	51	SHE187-4	PCB SUPPORT (NO PIN)	[M]	Q101	2SJ40CDTA	TRANSISTOR	
14	RGU1307-K	FUNCTION BUTTON	[M]	52	XTB3+10J	SCREW		Q102	2SJ40CDTA	TRANSISTOR	
15	RGUX0139-K	CONTROL BUTTON 1	[M]	53	XTB3+10JFZ	REAR PANEL SCREW		Q103	BA1L4ZTA	TRANSISTOR	[M]
16	RGUX0140-K	CONTROL BUTTON2	[M]	54	XTB3+20J	POWER PCB SCREW		Q104	2SC1740SRTA	TRANSISTOR	
17	RGUX0141-K	EQBUTTON	[M]	55	XTBS26+10J	PANEL PCB SCREW		Q105	2SK301QTA	TRANSISTOR	[M]
18	RGW0238-K	MAIN VOLUMEKNOB	[M]	56	XTN2+14GF	MECHANISMPCBSCREW	[M]	Q106	2SC2785FTA	TRANSISTOR	
19	RGZX0021A-K	MECHABUTTON (L)	[M]	58	XTW3+15T	POWER IC SCREW	1	Q107	2SD1450STA	TRANSISTOR	
20	RGZX0021B-K	MECHA BUTTON (R)	[M]	59	RFKNACH34PK	HOLDER ARM ASS'Y	[M]	Q201	2SJ40CDTA	TRANSISTOR	
20	RHD30007	CABINET SCREW	1	60	RME0221	HOLDER ARM SPRING	[M]	Q202	2SJ40CDTA	TRANSISTOR	
22	RHD30048	CDMECHANISMSCREW	ſMl	61	RMN0350	8 LED HOLDER	[M]	Q203	BA1L4ZTA	TRANSISTOR	[M]
22	RKFX0048-K	CASSETTELID(L)	[M]	62	RSCX0035	REAR SHIELD PLATE	[M]	Q204	2SC1740SRTA	TRANSISTOR	
	RKFX0049-K	CASSETTELID (R)	[M]					Q205	2SK301QTA	TRANSISTOR	[M]
24	RKM0309-K	CHANGER CHASSIS	[M]			INTEGRATED CIRC	UITS	Q206	2SC2785FTA	TRANSISTOR	
25		TOPCABINET	[M]				1	Q207	2SD1450STA	TRANSISTOR	
26	RKM0310-K			IC1	LA1832A	IC, IF/MPX		Q301	BA1F4MTA	TRANSISTOR	[M]
27	RKW0414-Q	SENSOR WINDOW	[M]	IC1	LC7218	IC, PLL		Q302		TRANSISTOR	[M]
28	RKW0415-Q		[M] [M]			2 IC, ANALOG SWITCH			2SC2001L1TA		
29	RKW0416B-Q		[M]		BU2090F-E2	IC, IO EXPANDER	[M]		2SC2001L1TA		-
30	RKWX0076-Q	CASSETTE LID WIN(L				2 IC, SOUND PROCESSOF		Q305		TRANSISTOR	-
31	RKWX0077-Q	CASSETTE LID WIN(F									[M]
32	RMA0938	REAR SUPPORT ANGLE	E [M]	1C306	6 AN7345K	IC, REC PLAYBACK	[M]	Q306	2SC1685RTA	TRANSISTOR	[[

Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No	Part No.	Part Name & Description	Remarks
Q307	2SC1685RTA	TRANSISTOR	[M]	D302	MTZJ8R2BTA	DIODE	[M]	VR801	RRV16B24104B	VR, VOLUME	
Q308	2SC2785FTA	TRANSISTOR		D303	RVD1SS133TA	DIODE					
Q309	2SC1740SRTA	TRANSISTOR		D304	RVD1SS133TA	DIODE				SWITCHES	
Q310	BN1A4MTA	TRANSISTOR	[M]	D305	MA29WATA	DIODE					
Q311	BN1A4MTA	TRANSISTOR	[M]	D306	RVDMTZ4R7BTA	DIODE		S601	RSH1A004-1	SW, PLAY (DECK 1)	[M]
Q312	2SB1185E	TRANSISTOR	Â	D307	RVD1SS133TA	DIODE		S602	RSH1A004-1	SW, F/R (DECK 1)	[M]
Q313	BA1F4MTA	TRANSISTOR	[M]	D309	MTZJ8R2BTA	DIODE	[M]	S603	RSH1A004-1	SW, REC (DECK 1)	[M]
Q314	2SD2037ETA	TRANSISTOR	[M] /	D310	RVD1SS133TA	DIODE		S604	RSH1A004-1	SW, PLAY (DECK 2)	[M]
Q315	2SC2001KTA	TRANSISTOR	Â	D311	RVD1SS133TA	DIODE		S605	RSH1A004-1	SW, F/R (DECK 2)	[M]
Q316	BA1L3ZTA	TRANSISTOR	[M]	D312	RVD1SS133TA	DIODE		S606	RSH1A013-21	SW, MOTOR (DECK 1)	[M]
Q317	BN1L3NTA	TRANSISTOR	[M]	D313	1D3E	DIODE	[M]	S607	RSH1A013-21	SW, MOTOR (DECK 2)	[M]
Q318	2SC2785FTA	TRANSISTOR		D314	1D3E	DIODE	[M]	S801	EVQ21405R	SW, POWER	
Q319	2SC2001KTA	TRANSISTOR	Â	D315	1D3E	DIODE	[M]	S802	EVQ21405R	SW, TIMER	
Q321	2SC2784FTA	TRANSISTOR	[M]	D316	RVDMTZ10BTA	DIODE		S803	EVQ21405R	SW, EASY EDIT	
	2SC2001KTA	TRANSISTOR	Â	D317	RVDMTZ10BTA	DIODE		S804	EVQ21405R	SW, RANDOM	
	BA1F4MTA	TRANSISTOR	[M]	D318	RVDMTZ10BTA	DIODE		S805	EVQ21405R	SW, REPEAT	
	BA1F4MTA	TRANSISTOR	[M]	D319	RVD1SS133TA	DIODE		S806	EVQ21405R	SW, DEMO	
	2SD2037ETA	TRANSISTOR	[M] ⁄ŕ	D320	MTZJ6R2CTA	DIODE	Â	S807	EVQ21405R	SW, STOP	
	2SD2037ETA	TRANSISTOR	[M]	D321	RVDMTZ5R6BTA	DIODE	Λ	S808	EVQ21405R	SW, AUX	
	2SC2785FTA	TRANSISTOR		D322		DIODE	<u> </u>	5809	EVQ21405R	SW, TUNER/BAND	
	2SD1762E	TRANSISTOR	[M]/î	D323	RVD1SS133TA	DIODE		S810	EVQ21405R	SW,CD	
	2SC2785FTA	TRANSISTOR	[] <u>\</u>	D390	RVD1SS133TA	DIODE			EVQ21405R	SW, TAPE	
	2SA933SSTA	TRANSISTOR		D398	RVDMTZ13BTA		Â	S812	EVQ21405R	SW, REV	
	2SD1762E	TRANSISTOR	[M] <u>/</u>	D501	1D3E	DIODE	[M]		EVQ21405R	SW, FWD	
	2SC2785FTA	TRANSISTOR	[m]\T	D502	1D3E	DIODE	[M]		EVQ21405R	SW, PLAY FWD	
	2SB1357ETA	TRANSISTOR	[M]	D503	1N5402BM21	DIODE	Δ.	S815	EVQ21405R	SW, PAUSE	
	25K381CTA	TRANSISTOR	[m]\[D504	1N5402BM21	DIODE	Λ	S817	EVQ21405R	SW, TIMER/CLOCK	
	BA1L4ZTA	TRANSISTOR	[M]	D505	1N5402BM21	DIODE	Λ		EVQ21405R	SW, SOFT	
	2SD965RTA	TRANSISTOR	[101]	D506	1N5402BM21	DIODE	1	11	EVQ21405R	SW, HEAVY	
	BN1L4MTA	TRANSISTOR	[M]		MTZJ12BTA	DIODE	<u>/1</u>	{ }	EVQ21405R	SW, CLEAR	
	BA1L4ZTA	TRANSISTOR	[M]		MTZJ15CTA	DIODE		S821	EVQ21405R	SW, FLAT	
	BA1L4ZTA	TRANSISTOR	[M]		MTZJ15BTA	DIODE	[M]	S822	EVQ21405R	SW, V. BASS	
——	2SC2785FTA	TRANSISTOR			RVDMTZ11BTA		<u>I</u> M]	S823	EVQ21405R	SW, TAPE EDIT	
	2SC2785FTA	TRANSISTOR			RVD1SS133TA			S824	EVQ21405R	SW, CD OPEN/CLOSE	
<u> </u>	2SC2785FTA	TRANSISTOR		D602	RVD1SS133TA			S825	EVQ21405R	SW. CD DISC CHECK	
						DIODE	[M]		EVQ21405R	SW, DISC 5	
	2SC2785FTA	TRANSISTOR						S826			
	2SC2785FTA	TRANSISTOR		D902			[M]	S827	EVQ21405R	SW, DISC 4	
	2SC2785FTA	TRANSISTOR		D903	SLR505DCT31	DIODE	[M]	S828	EVQ21405R	SW, DISC 3	
<u> </u>	2SC2785FTA	TRANSISTOR				DIODE	[M]	S829	EVQ21405R	SW, DISC 2	
0908	BA1L4LTA	TRANSISTOR	[M]	D905		DIODE	[M]	S830	EVQ21405R	SW, DISC 1	
				D907	1SS291TA	DIODE					
		DIODES		D908	RVD1SS133TA	·				CONNECTORS	
				D909	RVD1SS133TA						
D4	MTZJ5R1CTA	DIODE	[M]	D910	RVD1SS133TA			11	RJU063W07T	7P B-B CONNECTOR	
D5	RVD1SS133TA	DIODE		D911	MTZJ6R8BTA	DIODE		1	RJU063W07T	7P B-B CONNECTOR	
D101	RVD1SS133TA	DIODE							RJU005A012	12P CONNECTOR SOC	
D201	RVD1SS133TA	DIODE				VARIABLE RESISTO	RS	CN503	RJU005A012	12P CONNECTOR SOC	
D301	MTZJ8R2BTA	DIODE	[M]	VR601	EVNDXAA00B24	VR, HI SPEED		CN504	RJS1A5205	5PIN CONNECTOR	[M]

Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
			[M]	at a		OSCILLATORS		P4	SPSD152	ACCESSORY CASE	
	RJS10T6ZA		[1V1]			COOLEATONO				VINYL BAG	
		9PIN B-B CONNECTOR		X1	RSXZ456KM01	19KHZOSC					
	RJS1A6214-1	14PIN FFC CONNECTOR			RLFDFT12DD	FMRESONATOR			/	ACCESSORIES	
		23PIN FFC CONNECTOR			SVQ49U722T-S						
		7 PIN B-B CONNECTOR			EF0EN6004T4		[M]	A1	EUR643805	REMOTE CONTROL	[M]
		7 PIN B-B CONNECTOR	6 <u>6</u> 5		RSXD32K7S02		[M]			R. C. BATTERY COVER	· ·
	RJU077K20	20PB-BCONNECTOR		A902	H3AD32R7302	SZKI ZOTTOTALOGO	[[14]]				[M](E)
	RJU077K20	20P B-B CONNECTOR	[M]						RQT3304-B		[M](EB)
	RJP4G18ZA	4 PIN CONNECTOR		EI 001	RSL0217-F		[M]	A2		INSTRUCTION MANUAL	
	RJP7G18ZA	7 PIN CONNECTOR		FLOUI			[141]	A3		FM ANTENNA	
	RJT005W012	12 PINB-BCONNECTOR							RSA0010	AM LOOP ANT	
	RJT005W012	12 PINB-BCONNECTOR						A4 A5			(E,EG) /
	RJP8G18ZA	8PCONNECTOR		E500	SNE1004-2	EARTHTERMINAL			NJA0019-2K		[VRD](EB)
	RJT071H09A	9PB-BCONNECTOR						A5	VUNUTUU		
	RJT077K20	20P B-B CONNECTOR				RELAY	nn A				
CP804	RJT077K20	20P B-B CONNECTOR	[M]	RLY501	RSY0017-0	CD CHANGER RELAY	[w]\ i /			<loading motor=""></loading>	
											ł
		COILS & TRANSFOR	MERS			FUSE	A		BA6418N	IC, MOTOR DRIVER	
				F1	XBA2C08TB0	FUSE	<u> </u>	IC1	BA6410N	IC, MOTOR DRIVER	
L3	RLQZPR47KT-Y									SWITCHES	
L4	ELEPKR68MA	RF CHOKE COIL				FUSE CLIPS			DOLLADOS		
L5	ELEPKR68MA	RF CHOKE COIL			· · .			S1	RSH1A005	SW, LEAF	
L6	ELELN822KL	RF CHOCK COIL		FC1	SJT388	FUSECLIP		S2	RSH1A032-U	SW, MECHA	
L7	ELELN822KL	RF CHOCK COIL		FC2	SJT388	FUSECLIP		S3	RSH1A032-U	SW, MECHA	
L8	RLQZP1R0KT-Y	AXIAL COIL						S4	RSH1A005	SW, LEAF	
L9	SLM1B10-1M	A.B. FILTER				FUSE PROTECTORS		S5	RSH1A032-U	SW, MECHA	
L301	RLQZB470KT-E	INDUCTOR									
L501	SLQY07G-40	SPEAKER COIL		FP1	RSFMB40KT-L	FUSE PROTECTOR				CONNECTOR	
L502	SLQY07G-40	SPEAKER COIL		FP2	RSFMB40KT-L	FUSEPROTECTOR		CN1	RJS1A6714	14P CONNECTOR	
L601	RLQY10S3-0	COIL									
L901	RLQZP3R3KT-Y	COIL				JACKS				< SERVO P.C.B. >	
L902	RLQZP3R3KT-Y	COIL						┨┝────		INTEGRATED CIRCU	JITS
T301	RL08C004-T	BIAS OSC COIL	[M]	JK1	RJH8201	JK, ANTENNA TERMINAL	[M]	IC701	AN8835SBE1	IC, SERVO AMP.	-
T501	RTP1M3B007-X	TRANSFORMER	[M]/	JK2	SJS208	JK,LOOP ANT TERMINAL		IC702	MN662741RPA	IC, DIGITAL LSI	
				JK301	RJH3209N	JK, LINE-IN	[M]	IC703	AN8389SE1	IC, COIL/MOTOR DRIVI	=
				JK500	SJS9236	JK, AC INLET	Â				
		COMPONENT COMBI	NATION	JK501	RJR0054	JK, SP TERMINAL				TRANSISTOR	
				JK801	RJJ37TK04-C	JK, HEAD PHONE		Q701	2SB709S	TRANSISTOR	<u> </u>
Z1	RLA6Z005M-T	AM ANT/OSC									1
Z2	RLI2Z006M-T	AM IFT		1.1		WIRE		1		SWITCH	
Z3	ENV17290G1R	FM TUNER PACK			· .			S701	RSM0006-P	SW, RESET	
Z500	SLQZ650MH49	AC LINE COIL	Â	W501	REXX0137	8P WIRE (POWER)	[M]				
Z801	RCDHC-278N	SENSOR								CONNECTORS	
						PACKING MATERIA	LS	CN70	1RJU035T016-1	16 PIN FFC CONNECTO	R
		CERAMIC FILTERS						CN70	2 RJS1A6723-10	23 PIN FFC CONNECTO	R
				P1	RPF0100	MIRAMAT SHEET	[M]				
CF1	RLFFETNGA01	FMCF		P2	RPGX0250	GIFT BOX	[M]			OSCILLATOR	
CF2	RLFFETNGA02			РЗ	RPNX0051	POLYFOAM	[M]	X701	RSXZ16M9M01	T CERAMIC OSC	

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Resistors & Capacitors

Notes : • Important safety notice:

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Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

[M] indicates in Remarks column parts that are supplied by MESA.
Capacitor values are in microfarad (µF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
Resistors values are in ohms, unless specified otherwise, 1k=1,000(OHM), 1M=1,000k(OHM)

Ref No.	Part No.	Values a	& Remarks	Ref No	Part No.	Values	& Remarks	Ref No.	Part No.	Values	& Remarks	Ref No	Part No.	Values	& Remarks
	RESISTORS			R57	ERDS2TJ103T	10K	1/4W	R191	ERDS2TJ822T	8.2K	1/4W	R313	ERDS2TJ334T	330K	1/4W
	<u>en en e</u>			R58	ERDS2TJ103T	10K	1/4W	R199	ERDS2TJ103T	10K	1/4W	R314	ERDS2TJ334T	330K	1/4W
R15	ERDS2TJ181T	180	1/4W	R60	ERDS2TJ563T	56K	1/4W	R201	ERDS2TJ473T	47K	1/4W	R315	ERDS2TJ223T	22K	1/4W
R16	ERDS2TJ153T	15K	1/4W	R61	ERDS2TJ102T	1K	1/4W	R202	ERDS2TJ103T	10K	1/4W	R316	ERDS2TJ103T	10K	1/4W
R17	ERDS2TJ331T	330	1/4W	R63	ERDS2TJ102T	1K	1/4W	R203	ERDS2TJ104T	100K	1/4W	R317	ERDS2TJ103T	10K	1/4W
R18	ERDS2TJ471T	470	1/4W	R64	ERDS2TJ820T	82	1/4W	R204	ERDS2TJ103T	10K	1/4W	R318	ERDS2TJ221T	220	1/4W
R19	ERDS2TJ474T	470K	1/4W	R65	ERDS2TJ103T	10K	1/4W	R205	ERDS2TJ103T	10K	1/4W	R320	ERDS2TJ562T	5.6K	1/4W
R20	ERDS2TJ562T	5.6K	1/4W	R71	ERDS2TJ182T	1.8K	1/4W	R206	ERDS2TJ682T	6.8K	1/4W	R321	ERDS2TJ103T	10K	1/4W
R21	ERDS2TJ822T	8.2K	1/4W	R72	ERDS2TJ122T	1.2K	1/4W	R211	ERDS2TJ183T	18K	1/4W	R322	ERDS2TJ225T	2.2M	1/4W
R22	ERDS2TJ473T	47K	1/4W	R73	ERDS2TJ122T	1.2K	1/4W	R213	ERDS2TJ822T	8.2K	1/4W	R323	ERDS2TJ103T	10K	1/4W
R23	ERDS2TJ332T	3.3K	1/4W	R74	ERDS2TJ103T	10K	1/4W	R214	ERDS2TJ472T	4.7K	1/4W	R324	ERDS2TJ334T	330K	1/4W
R24	ERDS2TJ472T	4.7K	1/4W	R75	ERDS2TJ222T	2.2K	1/4W	R215	ERDS2TJ561T	560	1/4W	R325	ERDS2TJ334T	330K	1/4W
R25	ERDS2TJ271T	270	1/4W	R76	ERDS2TJ331T	330	1/4W	R216	ERDS2TJ820T	82	1/4W	R327	ERDS2TJ103T	10K	1/4W
R26	ERDS2TJ471T	470	1/4W	R77	ERDS2TJ474T	470K	1/4W	R217	ERDS2TJ181T	180	1/4W	R328	ERD25FVJ4R7T	4.7	1/4W
R27	ERDS2TJ272T	2.7K	1/4W	R101	ERDS2TJ473T	47K	1/4W	R218	ERDS2TJ102T	1K	1/4W	R329	ERDS2TJ472T	4.7K	1/4W
R28	ERDS2TJ473T	47K	1/4W	R102	ERDS2TJ103T	10K	1/4W	R219	ERDS2TJ223T	22K	1/4W	R330	ERDS2TJ472T	4.7K	1/4W
R29	ERDS2TJ680T	68	1/4W	R103	ERDS2TJ104T	100K	1/4W	R220	ERDS2TJ562T	5.6K	1/4W	R331	ERDS2TJ102T	1K	1/4W
R32	ERDS2TJ272T	2.7K	1/4W	R104	ERDS2TJ103T	10K	1/4W	R221	ERDS2TJ223T	22K	1/4W	R332	ERDS2TJ272T	2.7K	1/4W
R33	ERDS2TJ272T	2.7K	1/4W	R105	ERDS2TJ103T	10K	1/4W	R222	ERDS2TJ121T	120	1/4W	R333	ERDS2TJ332T	3.3К	1/4W
R34	ERDS2TJ103T	10K	1/4W	R106	ERDS2TJ682T	6.8K	1/4W	R223	ERDS2TJ823T	82K	1/4W	R334	ERDS2TJ103T	10K	1/4W
R35	ERDS2TJ103T	10K	1/4W	R111	ERDS2TJ183T	18K	1/4W	R225	ERDS2TJ392T	3.9K	1/4W	R335	ERDS2TJ472T	4.7K	1/4W
R36	ERDS2TJ474T	470K	1/4W	R113	ERDS2TJ822T	8.2K	1/4W	R226	ERDS2TJ104T	100K	1/4W	R336	ERDS2TJ103T	10K	1/4W
R37	ERDS2TJ474T	470K	1/4W	R114	ERDS2TJ472T	4.7K	1/4W	R227	ERDS2TJ182T	1.8K	1/4W	R337	ERDS2TJ472T	4.7K	1/4W
R38	ERDS2TJ272T	2.7K	1/4W	R115	ERDS2TJ561T	560	1/4W	R228	ERDS2TJ472T	4.7K	1/4W	R338	ERDS2TJ102T	1K	1/4W
R39	ERDS2TJ272T	2.7K	1/4W	R116	ERDS2TJ820T	82	1/4W	R229	ERDS2TJ152T	1.5K	1/4W	R339	ERDS2TJ102T	1K	1/4W
R40	ERDS2TJ391T	390	1/4W	R117	ERDS2TJ181T	180	1/4W	R232	ERDS2TJ471T	470	1/4W	R340	ERDS2TJ472T	4.7K	1/4W
R41	ERDS2TJ102T	1K	1/4W	R118	ERDS2TJ102T	1K	1/4W	R234	ERDS2TJ623T	62K	1/4W	R341	ERDS2TJ272T	2.7K	1/4W
R42	ERDS2TJ102T	1K	1/4W	R119	ERDS2TJ223T	22K	1/4W	R235	ERDS2TJ103T	10K	1/4W	R342	ERDS2TJ392T	3.9K	1/4W
R43	ERDS2TJ102T	1K	1/4W	R120	ERDS2TJ562T	5.6K	1/4W	R238	ERDS2TJ222T	2.2K	1/4W	R343	ERDS2TJ151T	150	1/4W
R44	ERDS2TJ102T	1K	1/4W	R121	ERDS2TJ223T	22K	1/4W	R245	ERDS2TJ104T	100K	1/4W	R344	ERDS2TJ105T	1M	1/4W
R45	ERDS2TJ102T	1K	1/4W	R122	ERDS2TJ121T	120	1/4W	R291	ERDS2TJ822T	8.2K	1/4W	R345	ERDS2TJ474T	470K	1/4W
R46	ERDS2TJ104T	100K	1/4W	R123	ERDS2TJ823T	82K	1/4W	R299	ERDS2TJ103T	10K	1/4W	R346	ERDS2TJ473T	47K	1/4W
R47	ERDS2TJ562T	5.6K	1/4W	R125	ERDS2TJ392T	3.9K	1/4W	R303	ERDS2TJ472T	4.7K	1/4W	R348	ERDS2TJ105T	1M	1/4W
R48	ERDS2TJ391T	390	1/4W	R126	ERDS2TJ104T	100K	1/4W	R304	ERDS2TJ103T	10K	1/4W	R349	ERDS2TJ223T	22K	1/4W
R49	ERDS2TJ561T	560	1/4W	R127	ERDS2TJ182T	1.8K	1/4W	R305	ERDS2TJ103T	10K	1/4W	R350	ERDS2TJ334T	330K	1/4W
R50	ERDS2TJ102T	1K	1/4W	R128	ERDS2TJ472T	4.7K	1/4W	R306	ERDS2TJ393T	39K	1/4W	R351	ERDS2TJ223T	22K	1/4W
R51	ERDS2TJ103T	10K	1/4W	R129	ERDS2TJ152T	1.5K	1/4W	R307	ERDS2TJ122T	1.2K	1/4W	R352	ERDS2TJ331T	330	1/4W
R52	ERDS2TJ102T	1K	1/4W	R132	ERDS2TJ471T	470	1/4W	R308	ERDS2TJ222T	2.2K	1/4W	R353	ERDS2TJ103T	10K	1/4W
R53	ERDS2TJ102T	1K	1/4W	R134	ERDS2TJ623T	62K	1/4W	R309	ERDS2TJ222T	2.2K	1/4W	R354	ERDS2TJ151T	150	1/4W
R54	ERDS2TJ102T	1K	1/4W	R135	ERDS2TJ103T	10K	1/4W	R310	ERDS2TJ102T	1K	1/4W	R355	ERDS1FVJ100T	10	1/2W
R55	ERDS2TJ102T	1K	1/4W	R138	ERDS2TJ222T	2.2K	1/4W	R311	ERDS2TJ332T	3.3K	1/4W	R356	ERDS1FVJ100T	10	1/2W
R56	ERDS2TJ102T	1K	1/4W	R145	ERDS2TJ104T	100K	1/4W	R312	ERDS2TJ152T	1.5K	1/4W	R357	ERDS1FVJ100T	10	1/2W

Ref No	Part No.	Values &	Remarks	Ref No	Part No.	Values é	& Remarks	Ref No.	Part No.	Values &	Remarks	Ref No.	Part No.	Values 8	z Remarks
					ERDS2TJ103T	10K	1/4W	R821	ERDS2TJ102T	1K	1/4W	R933	ERDS2TJ101T	100	1/4W
R358	ERDS2TJ560T					47	1/4W	R822	ERDS2TJ102T	1K	1/4W	R934	ERDS2TJ103T	10K	1/4W
R359	ERDS2TJ821T				ERDS2TJ563T	56K	1/4W	R823	ERDS2TJ122T	1.2K	1/4W	R935	ERDS2TJ103T	10K	1/4W
R360	ERD25FVJ180T		1/4W	R517 R518	ERDS1FVJ390T	39	1/2W	R824	ERDS2TJ182T	1.8K	1/4W	R936	ERDS2TJ103T	10K	1/4W
R361	ERD25FVJ180T					39	1/2W	R825	ERDS2TJ222T	2.2K	1/4W	R937	ERDS2TJ103T	10K	1/4W
R362	ERD25FVJ180T	18	1/4W	R519	ERDS1FVJ390T	1.5K	1/2W	R826	ERDS2TJ272T	2.7K	1/4W	R938	ERDS2TJ223T	22K	1/4W
R363	ERDS2TJ333T	33K	1/4W	R521	ERDS1FVJ152T ERDS1FVJ1R0T		1/2W/1	R827	ERDS2TJ472T	4.7K	1/4W	R939	ERDS2TJ223T	22K	1/4W
R364	ERDS2TJ183T	18K	1/4W	R522			1/2W	R829	ERDS2TJ272T	2.7K	1/4W	R940	ERDS2TJ103T	10K	1/4W
R366	ERDS2TJ102T	1K	1/4W	R524	ERDS1FVJ560T	56		R831	ERDS2TJ102T	1K	1/4W	R941	ERDS2TJ103T	10K	1/4W
R367	ERDS2TJ183T	18K	1/4W	R525	ERDS1FVJ560T	56	1/2W		ERDS2TJ102T	1K	1/4W	R942	ERDS2TJ103T	10K	1/4W
R368	ERDS2TJ472T	4.7K	1/4W	R526	ERDS1FVJ560T	56 1.51/	1/2W	R832 R833	ERDS2TJ102T	1.2K	1/4W	R944	ERDS2TJ472T	4.7K	1/4W
R369	ERDS1FVJ2R2T	2.2	1/2W	R527	ERDS2TJ152T	1.5K	1/4W		ERDS2TJ122T	1.8K	1/4W	R945	ERDS2TJ472T	4.7K	1/4W
R370	ERDS1FVJ331T	330	1/2W	R528	ERDS2TJ151T	150	1/4W	R834			1/4W	R946	ERDS2TJ472T	4.7K	1/4W
R371	ERDS2TJ181T	180	1/4W	R530	ERDS2TJ331T	330	1/4W	R835	ERDS2TJ222T	2.2K			ERDS2TJ472T	4.7K	1/4W
R372	ERDS2TJ182T	1.8K	1/4W	R531	ERDS2TJ151T	150	1/4W	R836	ERDS2TJ272T	2.7K	1/4W	R947		4.7K	1/4W
R373	ERDS2TJ153T	15K	1/4W	R532	ERDS2TJ682T	6.8K	1/4W	R841	ERDS2TJ102T	1K	1/4W	R948	ERDS2TJ472T		1/4W
R374	ERDS2TJ102T	1K	1/4W	R533	ERDS2TJ472T	4.7K	1/4W	R842	ERDS2TJ102T	1K	1/4W	R949	ERDS2TJ104T		1/4W
R377	ERDS2TJ101T	100	1/4W	R536	ERDS1FVJ1R0T	1	1/2W	R843	ERDS2TJ122T	1.2K	1/4W	R950	ERDS2TJ104T	+	
R380	ERDS2TJ222T	2.2K	1/4W	R537	ERDS2TJ151T	150	1/4W	R844	ERDS2TJ182T	1.8K	1/4W	R951	ERDS2TJ104T		1/4W
R381	ERDS2TJ151T	150	1/4W	R539	ERDS1FVJ390T	39	1/2W/	R845	ERDS2TJ222T	2.2K	1/4W	R961	ERDS2TJ474T		1/4W
R382	ERD25FVJ180T	18	1/4W	R544	ERDS2TJ151T	150	1/4W	R846	ERDS2TJ272T	2.7K	1/4W	R962	ERDS2TJ474T		1/4W
R383	ERDS2TJ331T	330	1/4W	R550	ERX1ANJP5R6	5. 6	1W <u>/</u>	R901	ERDS2TJ563T	56K	1/4W	R965	ERDS2TJ471T	470	1/4W
R384	ERDS1FVJ100T	10	1/2W	R551	ERDS2TJ100T	10	1/4W	R902	ERDS2TJ223T	22K	1/4W	R966	ERDS2TJ473T	47K	1/4W
R385	ERDS2TJ333T	ззк	1/4W	R552	ERDS2TJ100T	10	1/4W	R903	ERDS2TJ334T	330K	1/4W	R967	ERDS2TJ473T	47K	1/4W
R386	ERDS2TJ393T	39K	1/4W	R601	ERDS2TJ153T	15K	1/4W	R905	ERDS2TJ472T	4.7K	1/4W	R968	ERDS2TJ102T	1K	1/4W
R387	ERDS2TJ272T	2.7K	1/4W	R602	ERDS2TJ273T	27K	1/4W	R907	ERDS2TJ681T	680	1/4W	R969	ERDS2TJ102T	1K	1/4W
R388		1K	1/4W	R603	ERDS2TJ273T	27K	1/4W	R908	ERDS2TJ472T	4.7K	1/4W	R972	ERDS2TJ102T	1K	1/4W
R389		10K	1/4W	R605	ERDS2TJ2R7T	2.7	1/4W	R909	ERDS2TJ106T	10M	1/4W	R974	ERDS2TJ102T	1K	1/4W
R390		1.2	1/4W	R606	ERDS2TJ221T	220	1/4W	R910	ERDS2TJ102T	1K	1/4W	R975	ERDS2TJ102T	1K	1/4W
R391		1.2	1/4W	R607	ERDS2TJ103T	10K	1/4W	R911	ERDS2TJ102T	1K	1/4W	R976	ERDS2TJ102T	1K	1/4W
R393		1.2K	1/4W	R608	ERDS2TJ153T	15K	1/4W	R912	ERDS2TJ101T	100	1/4W	R977	ERDS2TJ102T	1K	1/4W
R394		2.2K		R609	ERDS2TJ103T	10K	1/4W	R913	ERDS2TJ101T	100	1/4W	R978	ERDS2TJ123T	12K	1/4W
R395		1.5K		R610	ERDS2TJ103T	10K	1/4W	R914	ERDS2TJ103T	10K	1/4W	R979	ERDS2TJ223T	22K	1/4W
		10K	1/4W	R611		1K	1/4W	R916	ERDS2TJ473T	47K	1/4W	R980	ERDS2TJ123T	12K	1/4W
R397	_	22K	1/4W	R612		47K	1/4W	R917	ERDS2TJ102T	1K	1/4W	R981	ERDS2TJ223T	22K	1/4W
R398			1/2W /	R613		47K	1/4W	R918	BERDS2TJ102T	1K	1/4W	R982	ERDS2TJ820T	82	1/4W
R399		15K	1/4W	R614		10K	1/4W	R91	ERDS2TJ102T	1K	1/4W	R983	ERDS2TJ820T	82	1/4W
R50					ERDS2TJ153T	15K	1/4W	R92		1K	1/4W	R984	ERDS2TJ820T	82	1/4W
R502		15K	1/4W			10K	1/4W	R92		1K	1/4W	R985	ERDS2TJ820T	82	1/4W
R503		56K	1/4W	R616		10K	1/4W	R92	_	1K	1/4W	R986	ERDS2TJ820T	82	1/4W
R504		56K	1/4W	R617			1/4W	R92			1/4W	R987		82	1/4W
R50	5 ERDS2TJ682T	6.8K		R618		1K		R92		1K	1/4W			82	1/4W
R50	6 ERDS2TJ682T	6.8K		R619		47K					1/4W	R989		82	1/4W
R50	7 ERDS2TJ683T	68K	1/4W	R620		1M	1/4W	R92		10K	1/4W	R99!		820	1/4W
R50	8 ERDS2TJ683T	68K	1/4W	R62		39K		R92						820	1/4W
R50	ERDS1FVJ100	т 10	1/2W	R81		1K	1/4W	R92			(1/4W	R99			1/4W
R51	ERDS1FVJ100	т 10	1/2W	R81		1K	1/4W	R92			1/4W	R99			1/4W
R51	1 ERDS2TJ823T	82K	1/4W	R81	3 ERDS2TJ122T	1.24		R92			< 1/4W	R99		-	
R51	2 ERDS2TJ124T	1201	< 1/4W	R81	4 ERDS2TJ182T	1.8	< 1/4W	R93		_	1/4W	- R99	9 ERDS2TJ821T	820	1/4W
R51	3 ERDS2TJ334T	3301	< 1/4W	R81	5 ERDS2TJ222T	2.2ł	< 1/4W	R93			1/4W				
R51	4 ERDS2TJ563T	56K	1/4W	R81	6 ERDS2TJ272T	2.7ł	< 1/4W	R93	2 ERDS2TJ101	100	1/4W				

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Ref No.	Part No.	Values &	& Remarks	Ref No.	Part No.	Values &	& Remarks	Ref No.	Part No.	Values 8	z Remarks	Ref No.	Part No.	Values &	z Remarks
	CAPACITORS			C65	ECBT1H102KB5	1000P	50V	C216	ECFR1C223MR	0.022	16V	C335	ECBT1H102KB5	1000P	50V
C15	ECBT1C103MS5	0.01	16V	C66	ECBT1H102KB5	1000P	50V	C217	ECEA0JU101B	100	6.3V	C336	ECBT1C103MS5	0.01	16V
C16	ECEA1CU220B	22	16V	C67	ECBT1H102KB5	1000P	50V	C219	ECBT1C332MR5	3300P	16V	C337	ECQP2A222JZT	2000P	100V
C17	ECBT1C103MS5	0.01	16V	C68	ECBT1H102KB5	1000P	50V	C220	ECBT1H221KB5	220P	50V	C338	ECBT1C103MS5	0.01	16V
C18	ECBT1H102KB5	1000P	50V	C71	ECBT1C103MS5	0.01	16V	C221	ECBT1H102KB5	1000P	50V	C339	ECEA1CKA100B	10	16V
C19	ECBT1C103MS5	0.01	16V	C72	ECBT1H471KB5	470P	50V	C222	ECEA1HU4R7B	4.7	50V	C340	ECEA1HU010B	1	50V
C20	ECEA1HKA3R3B	3.3	50V	C73	ECBT1H2R7KC5	2.7P	50V	C223	ECBT1H821KB5	820P	50V	C341	ECBT1C103MS5	0.01	16V
C21	ECEA0JU101B	100	6.3V	C102	ECBT1H101KB5	100P	50V	C224	ECBT1H102KB5	1000P	50V	C342	ECEA1HU010B	1	50V
C22	ECBT1C103MS5	0.01	16V	C103	ECBT1H102KB5	1000P	50V	C225	ECBT1C472MR5	4700P	16V	C343	ECEA1CU470B	47	16V
C23	ECEA1CU220B	22	16V	C104	ECEA1EU100B	10	25V	C227	ECBT1H270J5	27P	50V	C344	ECKR1H103ZF5	0.01	50V
C24	ECBT1H473ZF5	0.047	50V	C105	ECEA1HU100B	10	50V	C228	ECBT1H101KB5	100P	50V	C345	ECEA1HU010B	1	50V
C25	ECEA1HKA4R7B	4.7 ·	50V	C106	ECBT1H104ZF5	0.1	50V	C230	ECEA1HU220B	22	50V	C346	ECKR1H103ZF5	0.01	50V
C26	ECBT1C822MS5	8200P	16V	C107	ECFR1C563KR	0.056	16V	C231	ECEA1HUR68	0.68	50V	C347	ECEA1CU330B	33	16V
C27	ECOP1821JZT	820P	100V[M]	C108	ECBT1C103MS5	0.01	16V	C232	ECBT1H101KB5	100P	50V	C348	ECKR1H103ZF5	0.01	50V
C28	ECEA1HKA010B	1	50V	C109	ECEA1EU4R7B	4.7	25V	C233	ECEA1HUR33B	0.33	50V	C349	ECEA1CU330B	33	16V
C29	ECFR1C103KR	0.01	16V	C111	ECBT1H331KB5	330P	50V	C291	ECBT0J153MS5	0.015	6.3V	C350	ECEA1HU4R7B	4.7	50V
C30	ECFR1C103KR	0.01	16V	C112	ECBT1H331KB5	330P	50V	C301	ECBT1C103MS5	0.01	16V	C351	ECEA1CU221B	220	16V
C31	ECBT1H150JC5	15P	50V	C113	ECEA0JU101B	100	6.3V	C302	ECBT1C103MS5	0.01	16V	C352	ECKR1H103ZF5	0.01	50V
C32	ECBT1C103MS5	0.01	16V	C114	ECFR1C183KR	0.018	16V	C303	ECBT1C103MS5	0.01	16V	C353	ECEA1HU4R7B	4.7	50V
C33	ECEA1HKA2R2B		50V	C115	ECEA1HU010B	1	50V .	C304	ECBT1C103MS5	0.01	16V	C354	ECEA1HU330B	33	50V
C34	ECEA1HKA010B		50V	C116	ECFR1C223MR	0.022	16V	C305	ECBT1H101KB5	100P	50V	C355	ECKR1H103ZF5	0.01	50V
C35	ECEA1HKA010B		50V	C117	ECEA0JU101B	100	6.3V	C306	ECBT1H101KB5	100P	50V	C356	ECKR1H103ZF5	0.01	50V
C36	ECEA1HKA010B		50V	C119	ECBT1C332MR5			C307	ECBT1H101KB5	100P	50V	C357	ECEA1VU101B	100	10V
C37	ECEA1HKA010B		50V	C120	ECBT1H221KB5		50V	C308	ECEA1CU100B	10	16V	C358		0.01	50V
C38	ECBT1C822MS5			C121	ECBT1H102KB5	1000P		C309	ECEA1AU471B	470	10V	C359	ECEA1AU470B	47	10V
C39	ECBT1C822MS5			C122	ECEA1HU4R7B	4.7	50V	C310	ECEA1HUR22B	0.22	50V	C362	ECEA1HU010B	1	50V
C40	ECBT1H561KB5		50V	C123	ECBT1H821KB5		50V	C311	ECEA1CKA100B	10	16V	C363		0.01	50V
C41	ECBT1H561KB5			C124	ECBT1H102KB5	1000P		C312	ECEA1CKA220B		16V	C370	ECEA1EU101B	100	25V
C42	ECBT1C562MR5			C125	ECBT1C472MR5			C313	ECEA1CKA100B		16V	C374		0.1	50V
C43	ECBT1C562MR5				ECBT1H270J5	27P	50V		ECBT1H221KB5		50V			0.01	16V
C44	ECEA1CU101B	100	16V	C128	ECBT1H101KB5	100P	50V		ECBT1H221KB5		50V	C376	ECBT1C103MS5		16V
C45	ECEA1HKA010B		50V		ECEA1HU220B	22	50V	C316	ECEA1CU100B	10	16V		ECBT1H104ZF5	· · · ·	50V
C46	ECEA1HKA010B		50V		ECEA1HUR68	0.68	50V	C318	ECEA1HU220B	22	50V	C378		0.1	50V
						100P	50V	C319	ECEA1AU220B	22	10V	C379		0.1	50V
C47	ECBT1H473ZF5 ECBT1H100JC5		50V	C132 C133	ECBT1H101KB5 ECEA1HUR33B	0.33	50V	C320	ECFR1C393KR		16V	C381	ECEA1CU470B	47	16V
C48	ECBT1H331KB5		50V	C133	ECBT0J153MS5	0.33		C321	ECEA1CU330B	33	16V	C382	ECEA1HU100B	10	50V
C49				C191	ECBT1H101KB5	100P	50V	C321	ECEA1CU300B	10	16V	C383	ECBT1C103MS5		16V
C51	ECBT1C103MS5		16V 25V		ECBT1H101KB5	100P		C322	ECBT1C103MS5	<u> </u>	16V	C396	ECBT1C103MS5	-	16V
C52	ECEA25M4R7RB			C203			25V	C323	ECEA1CU101B	100	16V	C396	ECEA0JU221B	220	6.3V
C53	ECBT1C103MS5		16V	C204	ECEA1EU100B	10 10	25V 50V	C324	ECQV1H473JZ3			C397		0.1	50V
C54	ECBT1H180JC5		50V		ECEA1HU100B			C325	ECBT1H102KB5				ECEA1EU101B	100	25V
C55	ECBT1H150JC5	15P	50V	C206	ECBT1H104ZF5	0.1	50V			1000P		C399			
C56	ECBT1H102KB5	1000P		C207	ECFR1C563KR	0.056		C327	ECBT1H102KB5			C501	ECEA1HKA3R3B		50V
C57	ECEA0JU101B	100	6.3V		ECBT1C103MS5		16V	C328	ECBT1C103MS5		16V	C502	ECEA1HKA3R3B		50V
C59	ECBT1H330J5	33P	50V	C209	ECEA1EU4R7B	4.7	25V	C329	ECBT1C103MS5		16V	C503	ECBT1H102KB5	1000P	
C60	ECBT1H102KB5	1000P		C211	ECBT1H331KB5	330P	50V	C330	ECBT1C103MS5		16V	C504	ECBT1H102KB5	1000P	
C61	ECBT1H331KB5	330P	50V		ECBT1H331KB5	330P	50V	C331			100V[M]	C505	ECBT1H331KB5	330P	50V
C62	ECEA1CU220B	22	16V		ECEA0JU101B	100	6.3V	C332	ECQV1H474JZ3		50V	C506	ECBT1H331KB5	330P	50V
C63	ECBT1C103MS5	0.01	16V	C214	ECFR1C183KR	0.018		C333	ECEA1HU010B	1	50V	C507	ECBT1H150J5	15P	50V
C64	ECBT1C103MS5	0.01	16V	C215	ECEA1HU010B	1	50V	C334	ECEA1HU010B	1	50V	C508	ECBT1H150J5	15P	50V

Ref No	Part No.	Values &	Remarks	Ref No	Part No.	Values &	& Remarks	Ref No.	Part No.	Values é	& Remarks	Ref No.	Part No.	Values &	Remarks
						560P	50V	R727	ERJ6GEYJ822V	8.2K	1/10W	C731	ECEA0JKA221I	220	6.3V
	ECEA1HKA010B		50V				50V		ERJ6GEYJ103V	10K	1/10W	· · · · · · · ·	ECEA0JKA2211		6.3V
	ECEA1HKA010B		50V 50V				50V	R731	· · · · · · · · · · · · · · · · ·	8.2K	1/10W	C733	ECUZNE104MBN	0.1	25V
			100V		ECBT1H561KB5		50V	R734	ERJ6GEYJ101V	100	1/10W	C734	ECEA1AKA221I	220	10V
	ECEA2AU100B			C925			50V	R735	ERJ6GEYJ101V	100	1/10W	C735	ECUZNE104MBN	0.1	25V
	ECKR1H223ZF5		50V	C920		560P	50V	R736	ERJ6GEYJ101V	100	1/10W		ECUZNE104MBN		25V
	ECKR1H223ZF5		50V	C928		560P	50V	R738	ERJ6GEYJ223V	22K	1/10W	C737	ECUZNE104MBN	0.1	25V
			50V	C929	ECBT1C103MS5		16V	R741	ERJ6GEYJ562V	5.6K	1/10W	C738	ECUV1C154KBN	0.15	16V
			25V[M]	C930		100	10V	R742	ERJ6GEYJ562V	5.6K	1/10W	C742	ECUV1E273KBN	0.027	25V
		0.01	50V	C931		1000P		R743	ERJ6GEYJ562V	5.6K	1/10W	C743	ECUZNE104MBN	0.1	25V
		0.01	50V	C932	ECEA0JU102B	1000		B744	ERJ6GEYJ103V	10K	1/10W	C744	ECUV1E822KBN	8200P	25V
			50V	C933	ECEA0JU102B	1000		R745	ERJ6GEYJ155V	1.5M	1/10W	C745	ECUV1C473MBN	0.047	16V
	ECKR1H103ZF5			C934	ECBT1H102KB5	1000P		R748	ERJ6GEYJ182V	1.8K	1/10W	C747	ECUV1H222KBN	2200P	50V
	ECKR1H103ZF5		50V		ECBT1H102KB5	1000F		R749	ERJ6GEYJ682V	6.8K	1/10W	C748	ECUV1H471KBM		50V
C522	ECEA1VU332E	3300	10V	C944		1000F		R750	ERJ6GEYJ473V	47K	1/10W	C749	ECUZNE104MBN		25V
C523	ECEA1VU222E	2200	10V	C945	ECBT1H102KB5			R751	ERJ6GEYJ473V	47K	1/10W	C751	ECUZNE104MBN	<u> </u>	25V
C524	ECEA0JU101B	100	6.3V	C946	ECBT1H101KB5	100P		R752	ERJ8GEYJ220V	22	1/8W	C752	ECUV1H152KBN	+	
C528	ECEA1CU331B	330	16V	C947	ECBT1H101KB5	100P	50V 10V	R770	ERJ6GEYJ155V	1.5M	1/10W	C753	ECUV1H471KBM		50V
C529	ECBT1E103ZF5	0.01	25V	C949	ECEA1AKA470B			R771	ERJ6GEYJ155V	1.5M	1/10W	C754	ECUV1H471KBN		50V
C536	ECEA1CU101B	100	16V	C950	ECBT1H331KB5		50V	B772	ERJ6GEYJ273V	27K	1/10W				
C537		0.01	25V	C951	ECBT1H331KB5		50V		EN30GE 13273V		1/1000		CHIP JUMPERS		
C538	ECEA1CKA470B		16V	C952	ECEA1CU331B	330	16V					B 1701	ERJ8GEY0R00A	+	1/8W
C539	ECBT1E103ZF5	0.01	25V	C953	ECBT1C103MS5		16V	0704	CAPACITORS	00	6.01/	┨┠────	ERJ8GEY0R00A		1/8W
C551	ECKR1H223ZF5			C997	ECBT1C103MS5		16V	C701	ECEA0JKA330I	33	6.3V	{	ERJ8GEY0R00A		1/8W
C552	ECKR1H223ZF5	0.022		C998	ECBT1C103MS5		16V	C702	+	+	25V				1/8W
C553	ECQV1H224JZ3	0.22	50V	C999	ECBT1C103MS5	0.01	16V	C703	ECEA0JKA101I	100	6.3V	┨┠────	ERJ8GEY0R00A		1/8W
C602	ECEA1CKA101B	100	16V					C704	ECUZNE104MB		25V	┨┝────	ERJ8GEY0R00A	-	1/8W
C604	ECBT1H104ZF5	0.1	50V	╢───	<servo p.c.b=""></servo>	•		C705	ECUZNE104MB		25V	1]	ERJ8GEY0R00A	+	1/8W
C850	ECBT1H102KB5	1000F	9 50V		RESISTORS	ļ		C706	ECUV1H272KBN				ERJ8GEY0R00A	+	1/8W
C851	ECBT1H102KB5			R701	ERJ6GEYJ4R7V		1/10W	C707	ECUV1E273KB				ERJ8GEY0R00A		1/8W
C901	ECBT1H561KB5			10700	ED IGOEV 1000	1001/	1/10W	11		1 1 2 2 2 2 2					
	ECBI II ISO IKBS	560P	50V	R703	ERJ6GEYJ823	82K		C708				┨┠────	ERJ8GEY0R00A	1.	
C902	ECBT1H561KB5			R703	ERJ6GEYJ102V		1/10W	C709	ECUV1C473KB	0.047	′ 16V	RJ717	7 ERJ8GEY0R00A	0	1/8W
C902 C904		560P	50V	11		1K		11	ECUV1C473KB ECUV1H182KB	N 0.047 N 1800	' 16V P 50V	RJ717 RJ72	7 ERJ8GEY0R00A 1 ERJ8GEY0R00A	0	1/8W 1/8W
	ECBT1H561KB5	560P 1000F	50V	R704	ERJ6GEYJ102V	1K 10K 1K	1/10W 1/10W 1/10W	C709	ECUV1C473KB ECUV1H182KB ECUZNE104MB	N 0.047 N 1800 N 0.1	7 16V P 50V 25V	RJ717 RJ72 RJ722	7 ERJ8GEY0R00A 1 ERJ8GEY0R00A 2 ERJ8GEY0R00A		1/8W 1/8W 1/8W
C904	ECBT1H561KB5 ECBT1H102KB5	560P 1000F 0.01	50V 9 50V	R704 R705	ERJ6GEYJ102V ERJ6GEYJ103V	1K 10K 1K	1/10W 1/10W	C709 C710 C711 C712	ECUV1C473KB ECUV1H182KB ECUZNE104MB ECUZNE104MB	N 0.047 N 1800 N 0.1 N 0.1	7 16V P 50V 25V 25V	RJ717 RJ72 RJ722 RJ722	7 ERJ8GEY0R00A 1 ERJ8GEY0R00A 2 ERJ8GEY0R00A 3 ERJ8GEY0R00A	x 0 x 0 x 0 x 0	1/8W 1/8W 1/8W 1/8W
C904 C905	ECBT1H561KB5 ECBT1H102KB5 ECBT1C103MS5	560P 1000F 0.01 10	50V 9 50V 16V	R704 R705 R706	ERJ6GEYJ102V ERJ6GEYJ103V ERJ6GEYJ102V	1K 10K 1K 470K	1/10W 1/10W 1/10W	C709 C710 C711 C712	ECUV1C473KB ECUV1H182KB ECUZNE104MB	V 0.047 V 1800 N 0.1 N 0.1 M 0.1	7 16V P 50V 25V 25V 25V	RJ717 RJ72 RJ722 RJ722 RJ724	7 ERJ8GEY0R00A 1 ERJ8GEY0R00A 2 ERJ8GEY0R00A 3 ERJ8GEY0R00A 4 ERJ8GEY0R00A	x 0 x 0 x 0 x 0 x 0 x 0	1/8W 1/8W 1/8W 1/8W 1/8W
C904 C905 C906	ECBT1H561KB5 ECBT1H102KB5 ECBT1C103MS5 ECEA1HKA100B	560P 1000F 0.01 10 0.01	50V 2 50V 16V 50V	R704 R705 R706 R707	ERJ6GEYJ102V ERJ6GEYJ103V ERJ6GEYJ102V ERJ6GEYJ474V	1K 10K 1K 470K 150K	1/10W 1/10W 1/10W 1/10W	C709 C710 C711 C712	ECUV1C473KBN ECUV1H182KBN ECUZNE104MB ECUZNE104MB ECUV1C104MB	V 0.047 V 1800 N 0.1 N 0.1 M 0.1	7 16V P 50V 25V 25V 16V 6.3V	RJ717 RJ72 RJ722 RJ722 RJ724 RJ724	7 ERJ8GEY0R00A 1 ERJ8GEY0R00A 2 ERJ8GEY0R00A 3 ERJ8GEY0R00A 4 ERJ8GEY0R00A 5 ERJ8GEY0R00A		1/8W 1/8W 1/8W 1/8W 1/8W 1/8W
C904 C905 C906 C907	ECBT1H561KB5 ECBT1H102KB5 ECBT1C103MS5 ECEA1HKA100B ECBT1C103MS5	560P 1000F 0.01 10 0.01	50V 50V 16V 50V 16V	R704 R705 R706 R707 R708	ERJ6GEYJ102V ERJ6GEYJ103V ERJ6GEYJ102V ERJ6GEYJ174V ERJ6GEYJ154V	1K 10K 1K 470K 150K 68K	1/10W 1/10W 1/10W 1/10W 1/10W	C709 C710 C711 C712 C713	ECUV1C473KBI ECUV1H182KBI ECUZNE104MB ECUZNE104MB ECUV1C104MB ECEA0JKA1011 ECUV1H561KBI	N 0.047 N 18001 N 0.1 M 0.1 M 0.1 100 N 560P	7 16V P 50V 25V 25V 16V 6.3V	RJ717 RJ72 RJ722 RJ722 RJ722 RJ722 RJ722 RJ722	7 ERJ8GEY0R00A 1 ERJ8GEY0R00A 2 ERJ8GEY0R00A 3 ERJ8GEY0R00A 4 ERJ8GEY0R00A 5 ERJ8GEY0R00A 6 ERJ8GEY0R00A	A O A O A O A O A O A O A O A O A O A O	1/8W 1/8W 1/8W 1/8W 1/8W 1/8W
C904 C905 C906 C907 C909	ECBT1H561KB5 ECBT1H102KB5 ECBT1C103MS5 ECEA1HKA100B ECBT1C103MS5 ECEA1HKA100B	560P 1000F 0.01 10 0.01 10	50V 50V 16V 50V 16V 50V 50V	R704 R705 R706 R707 R708 R709	ERJ6GEYJ102V ERJ6GEYJ103V ERJ6GEYJ102V ERJ6GEYJ474V ERJ6GEYJ154V ERJ6GEYJ683V	1K 10K 1K 470K 150K 68K 150K	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	C709 C710 C711 C712 C713 C714	ECUV1C473KBN ECUV1H182KBN ECUZNE104MB ECUZNE104MB ECUV1C104MB ECEA0JKA1011 ECUV1H561KBI ECUZNE104MB	V 0.047 V 1800 N 0.1 M 0.1 100 V 560P N 0.1	 16V P 50V 25V 25V 16V 6.3V 50V 25V 	RJ717 RJ72 RJ722 RJ722 RJ722 RJ722 RJ722 RJ722	7 ERJ8GEY0R00A 1 ERJ8GEY0R00A 2 ERJ8GEY0R00A 3 ERJ8GEY0R00A 4 ERJ8GEY0R00A 5 ERJ8GEY0R00A 6 ERJ8GEY0R00A 7 ERJ8GEY0R00A	A O A O A O A O A O A O A O A O A O A O A O A O	1/8W 1/8W 1/8W 1/8W 1/8W 1/8W 1/8W
C904 C905 C906 C907 C909 C910	ECBT1H561KB5 ECBT1H102KB5 ECBT1C103MS5 ECEA1HKA100B ECBT1C103MS5 ECEA1HKA100B ECBT1H680J5	560P 1000F 0.01 10 0.01 10 68P	50V 50V 16V 50V 16V 50V 50V 50V	R704 R705 R706 R707 R708 R709 R711	ERJ6GEYJ102V ERJ6GEYJ103V ERJ6GEYJ102V ERJ6GEYJ174V ERJ6GEYJ154V ERJ6GEYJ683V ERJ6GEYJ154V	1K 10K 1K 470K 150K 68K 150K	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	C709 C710 C711 C712 C713 C714 C716	ECUV1C473KBN ECUV1H182KBN ECUZNE104MB ECUZNE104MB ECUV1C104MB ECEA0JKA1011 ECUV1H561KBN ECUZNE104MB ECUV1C224KBN	V 0.047 V 1800 N 0.1 M 0.1 100 V 560P N 0.1 V 0.22	7 16V P 50V 25V 25V 16V 6.3V 6.3V 50V 25V 16V	RJ717 RJ72 RJ72 RJ722 RJ722 RJ722 RJ722 RJ722 RJ722 RJ722	7 ERJ8GEY0R00A 1 ERJ8GEY0R00A 2 ERJ8GEY0R00A 3 ERJ8GEY0R00A 4 ERJ8GEY0R00A 5 ERJ8GEY0R00A 6 ERJ8GEY0R00A 7 ERJ8GEY0R00A 8 ERJ8GEY0R00A	A O A O A O A O A O A O A O A O A O A O A O A O	1/8W 1/8W 1/8W 1/8W 1/8W 1/8W 1/8W 1/8W
C904 C905 C906 C907 C909 C910 C911	ECBT1H561KB5 ECBT1H102KB5 ECBT1C103MS5 ECEA1HKA100B ECBT1C103MS5 ECEA1HKA100B ECBT1H680J5 ECBT1H680J5	560P 1000F 0.01 10 0.01 10 68P 68P	50V 50V 16V 50V 16V 50V 50V 50V 50V	R704 R705 R706 R707 R708 R708 R709 R711 R712	ERJ6GEYJ102V ERJ6GEYJ103V ERJ6GEYJ102V ERJ6GEYJ474V ERJ6GEYJ154V ERJ6GEYJ683V ERJ6GEYJ154V ERJ6GEYJ221V ERJ6GEYJ102V	1K 10K 1K 470K 150K 68K 150K 220 1K	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	C709 C710 C711 C712 C713 C714 C716 C717	ECUV1C473KBN ECUV1H182KBN ECUZNE104MB ECUZNE104MB ECUV1C104MB ECEA0JKA1011 ECUV1H561KBN ECUZNE104MB ECUV1C224KBN	V 0.047 V 1800 N 0.1 M 0.1 100 V 560P N 0.1 V 0.22	 16V P 50V 25V 25V 16V 6.3V 50V 25V 	RJ717 RJ72 RJ72 RJ72 RJ72 RJ72 RJ72 RJ72 RJ7	7 ERJ8GEY0R00A 1 ERJ8GEY0R00A 2 ERJ8GEY0R00A 3 ERJ8GEY0R00A 4 ERJ8GEY0R00A 5 ERJ8GEY0R00A 6 ERJ8GEY0R00A 7 ERJ8GEY0R00A 8 ERJ8GEY0R00A 9 ERJ8GEY0R00A	x 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0	1/8W 1/8W 1/8W 1/8W 1/8W 1/8W 1/8W 1/8W
C904 C905 C906 C907 C909 C910 C911 C912	ECBT1H561KB5 ECBT1H102KB5 ECBT1C103MS5 ECEA1HKA100B ECBT1C103MS5 ECEA1HKA100B ECBT1H680J5 ECBT1H680J5 ECBT1H560J5	560P 1000F 0.01 10 0.01 10 68P 68P 56P 56P	50V 50V 16V 50V 16V 50V 50V 50V 50V 50V 50V	R704 R705 R706 R707 R708 R709 R711 R712 R717	ERJ6GEYJ102V ERJ6GEYJ103V ERJ6GEYJ102V ERJ6GEYJ474V ERJ6GEYJ154V ERJ6GEYJ154V ERJ6GEYJ154V ERJ6GEYJ221V ERJ6GEYJ102V	1K 10K 1K 470K 150K 68K 150K 220 1K 1K	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	C709 C710 C711 C712 C713 C714 C714 C716 C717 C718	ECUV1C473KBN ECUV1H182KBN ECUZNE104MB ECUZNE104MB ECUV1C104MB ECEA0JKA1011 ECUV1H561KBI ECUZNE104MB ECUV1C224KBN ECUV1C224KBN	V 0.047 V 18000 N 0.1 M 0.1 100 V 560P N 0.1 V 0.22 V 15P	7 16V P 50V 25V 25V 16V 6.3V 6.3V 50V 25V 16V	RJ717 RJ72 RJ72 RJ72 RJ72 RJ72 RJ72 RJ72 RJ7	7 ERJ8GEY0R00A 1 ERJ8GEY0R00A 2 ERJ8GEY0R00A 3 ERJ8GEY0R00A 4 ERJ8GEY0R00A 5 ERJ8GEY0R00A 6 ERJ8GEY0R00A 7 ERJ8GEY0R00A 8 ERJ8GEY0R00A	x 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0	1/8W 1/8W 1/8W 1/8W 1/8W 1/8W 1/8W 1/8W
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C904 C905 C906 C907 C909 C910 C911 C912 C913 C914	ECBT1H561KB5 ECBT1H102KB5 ECBT1C103MS5 ECEA1HKA100B ECBT1C103MS5 ECEA1HKA100B ECBT1H680J5 ECBT1H680J5 ECBT1H680J5 ECBT1H560J5 ECBT1H560J5 ECBT1H102KB5	560P 1000F 0.01 10 0.01 10 68P 68P 56P 56P 1000F	50V 50V 16V 50V 16V 50V 50V 50V 50V 50V 50V 50V 50	R704 R705 R706 R707 R708 R709 R711 R712 R711 R712 R717 R718 R719 R720	ERJ6GEYJ102V ERJ6GEYJ103V ERJ6GEYJ103V ERJ6GEYJ474V ERJ6GEYJ154V ERJ6GEYJ154V ERJ6GEYJ154V ERJ6GEYJ102V ERJ6GEYJ102V ERJ6GEYJ102V	1K 10K 1K 470K 150K 68K 150K 220 1K 1K 1K 1K	1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W 1/10W	C709 C710 C711 C712 C713 C714 C716 C717 C718 C721 C722	ECUV1C473KBN ECUV1H182KBN ECUZNE104MB ECUZNE104MB ECUV1C104MB ECEA0JKA1011 ECUV1H561KBN ECUV1C224KBN ECUV1C224KBN ECUV1H150JCN ECUV1H150JCN ECUV1H150JCN	V 0.047 V 18000 N 0.1 M 0.1 M 0.1 I 100 V 560P N 0.1 V 0.22 V 15P V 15P 220	7 16V P 50V 25V 25V 16V 6.3V 7 50V 25V 16V 50V 50V	RJ717 RJ72 RJ72 RJ72 RJ72 RJ72 RJ72 RJ72 RJ7	7 ERJ8GEY0R00A 1 ERJ8GEY0R00A 2 ERJ8GEY0R00A 3 ERJ8GEY0R00A 4 ERJ8GEY0R00A 5 ERJ8GEY0R00A 6 ERJ8GEY0R00A 7 ERJ8GEY0R00A 8 ERJ8GEY0R00A 9 ERJ8GEY0R00A 0 ERJ8GEY0R00A	x 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0	1/8W 1/8W 1/8W 1/8W 1/8W 1/8W 1/8W 1/8W
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MESA Printed in Singapore G960311000 X/J/R/C

(K) ... Black Type

Colour

(K)

Colour

Area

Asia, Latin America,

Africa and Middle

Near East

Service Manua **CD** Stereo System MASH*



TAPE SECTION : SG20W MECHANISM SERIES

CD SECTION : RAE0150Z TRAVERSE DECK SERIES

SA-CH34

Remote Control	SB-CH34
Transmitter	00-01104

SB-CH34

System **Music Center** Speaker SC-CH34 (GC) SA-CH34 (GC) SB-CH34 (GC)

Specifications

Amplifier Section	
1 kHz continuous power output,	
both channels driven	2 x 22 W (THD 1%, 4 Ω)
RMS	2 x 34 W (THD 10%, 4 Ω)
РМРО	400 W (4 Ω)
Total harmonic distortion	
Half power at 1 kHz	0.1 % (4 Ω)
Frequency response	
CD, AUX	45 Hz – 20 kHz (–3 dB)
Input sensitivity and impedance	
AUX	250 mV, 47 kΩ
MIC	0.6 mV, 680 Ω
Tone controls	3-Preset EQ
V. BASS (volume at –30 dB)	63 Hz, 7 dB
Load impedance	4 Ω

FM Tuner Section

Frequency range	87.50 – 108.00 MHz
Sensitivity	23.3 dBf
Total harmonic distortion	
MONO	0.3 %
STEREO	0.5 %
S/N	
MONO	60 dB
Image rejection at 98 MHz	35 dB
Stereo separation at 1 kHz	35 dB
Antenna terminal(s)	75 Ω (unbalanced)

AM Tuner Section

Frequency range MW

SW

Sensitivity (for 500 mW) MW (at 999 kHz, 1000 kHz) SW (at 4 MHz) (at 12 MHz)

531 - 1602 kHz (9 kHz steps) 530 - 1600 kHz (10 kHz steps) 3.2-7.300 MHz 9.5-21.850 MHz

> 250 µV/m $12.6\,\mu V$ 40 µV



MASH is a trademark of NTT.

Cassette Deck Section

Area Suffix for

Model No

(GC)

Track system 4 track, 2 channel Heads Playback Solid permallov head Record/playback Solid permallov head Erasure Double gap ferrite head Motor DC servo motor **Recording system** AC bias 100 kHz **Erasing system** AC erase 100 kHz **Tape speed** 4.8 cm/s (17/8 ips) **Frequency response** NORMAL 30 Hz - 14 kHz (+3 dB, -6 dB) S/N (NORMAL type) 52 dB (A-WTD) Wow and flutter 0.1 % (WRMS) Fast forward and rewind time

Approx. 110 seconds with C-60 cassette tape

CD Section

Sampling frequency	44.1 kHz
Decoding	16 bit linear
Beam source/wave length	Semiconductor laser / 780 nm
Number of channels	Stereo
Frequency response	20 Hz – 20 kHz (+1, –2 dB)
S/N (CD UNIT OUT)	95 dB (JIS. A)
Wow and flutter	Below measurable limit
Digital filter	8 fs
D/A converter	MASH (1 bit DAC)

General

Power consumption 92 W AC 50/60 Hz, 110 V/127 V/220 V/230 - 240 V Power supply Dimensions (W x H x D) 270 x 320 x 322 mm Weight 6.8 ka Notes :

- Specifications are subject to change without notice. Weight and dimensions are approximate.
- 2. Total harmonic distortion is measured by the digital spectrum analyzer.

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■ Terminal Function of ICs

• IC701 (AN8835SBE1) Servo Amplifier

Pin No.	Mark	I/O	Function	Pin No.
1	PDA	1	PD signal input	15
2	PDB		PD signal input	16
3	VCC	1	Power supply connection	17
4	LPD	1	Laser PD connection	18
5	LD	0	Power out for LD driving	19
6	RF	0	RF signal output	20
7	RFIN	1	RF signal input	21
8	CAGC	1	AGC loop filter connection	22
9	ARF	0	RF-AGCoutput	23
10	CSBRT	1	Capacitor for detection connection	24
11	CEA	1	Capacitor connection for HPF amplifier	25
12	BDO	0	BDO output ("H" : drop out)	26
13	LDON	I	LD APC input ("H" : ON, "L" : OFF)	27
14	GND		Ground connection	28

Pin No.	Mark	٧٥	Function
15	/RFDET	0	NRFDET output ("L" : detection)
16	CROSS	0	CROSS output (Track cross signal output)
17	OFTR	0	Off-track output("L" : ON track, "H" : OFF track)
18	VDET	0	VDET output("H" : Vibration detected)
19	ENV	0	RF envelope detection
20	TEBPF	1	Vibration detection signal input
21	CCRS	1	Capacitor for LPF connection
22	TE	0	Tracking error signal output
23	FE	ο	Focus error signal output
24	TBAL	1	Tracking balance signal input
25	FBAL	1	Focus balance signal input
26	VREF	0	Reference voltage output
27	PDE	1	PD signal input
28	PDF	I	PD signal input

• IC703 (AN8389SE1) Focus coil / Tracking coil / Traverse motor / Spindle motor driver

Pin No.	Mark	vo	Function
1	VCC	1	Power supply terminal
2	VREF	1	Reference voltage input
3	IN4	1	Motor driver (4) input
4	IN3	I	Motor driver (3) input
5	GND		Groundconnection
6	NC	_	Groundconnection
7	NRESET	1	Reset input
8	GND		Groundconnection
9	IN2	I	Motor driver (2) input
10	PC2	I	PC2 (power cut) input
11	IN1	I	Motor driver (1) input
12	PC1	I	PC1 (power cut) input (Not used, open)

Pin No.	Mark	1/0	Function
13	PVCC1	I	Power supply (1) for driver
14	PGND1		Ground connection (1) for driver
15	D1	ο	Motor driver (1) reverse-action output
16	D1+	0	Motor driver (1) forward-action output
17	D2	0	Motor driver (2) reverse-action output
18	D2+	0	Motor driver (2) forward-action output
19	D3	0	Motor driver (3) reverse-action output
20	D3+	0	Motor driver (3) forward-action output
21	D4	0	Motor driver (4) reverse-action output
22	D4+	0	Motor driver (4) forward-action output
23	PGND2		Ground connection (2) for driver
24	PVCC2	ŀ	Power supply (2) for driver

• IC702 (MN662741RPA) Servo processor / Digital signal processor / Digital filter / D/A converter

Pin No.	Mark	vo	Function
1	BCLK	0	Serial bit clock terminal (Not used, open)
2	LRCK	0	L/R discriminating signal (Not used, open)
3	SRDATA	0	Serial data (Not used, open)
4	DVDD1		Power supply (digital circuit) terminal
5	DVSS1	-	GND (digital circuit) terminal
6	ТХ	0	Digital audio interface signal
7	MCLK	1	Microprocessor command clock signal
8	MDATA	1	Microprocessor command data signal
9	MLD		Microprocessor command load signal
10	SENSE	0	Sense signal output
			(OFT,FESL,MAGEND,NAJEND,POSAD,SFG)
11	/FLOCK	0	Optical servo condition(focus)("L" : lead-in)
12	/TLOCK	0	Optical servo condition(tracking)("L" : lead-in)
13	BLKCK	0	Sub-code block clock (f=75Hz)
14	SQCK	1	External clock signal input for sub-code Q
			register.
15	SUBQ	0	Sub-code Q code output
16	DMUTE		Muting input ("H" : mute)
17	STAT	0	Status signal output
			(CRC,CUE,CLVS,TTSTVP,FCLV,SQCK)
18	/RST	1	Reset input
19	SMCK	0	1/2-divided clock signal of crystal oscillating at
			MSEL = "H" (fSMCK=8.4672MHz)
			1/4-divided clock signal of crystal oscillating at
			MSEL="L" (fSMCK=4.2336MHz)
20	РМСК	0	1/192-divided clock signal of crystal oscillating
			(fPMCK=88.2kHz) (Not used, open)
21	TRV	0	Traverse servo control output
22	TVD	0	Traverse drive signal output
23	PC	0	Spindle motor ON signal output ("L" : ON)
24	ECM	0	Spindle motor drive signal output
			(forced mode output)
25	ECS	0	Spindle motor drive signal output
		-	(servo error signal output)
26	KICK	0	Kick pulse output
27	TRD	0	Tracking drive output
28	FOD	0	Focus drive output
29	VREF	1	D/A (drive) output (TVD,ECS,TRD,FOD,
			FBAL, TBAL) Reference voltage input.
30	FBAL	0	Focus balance adjustment output
			(Notused,open)
31	TBAL	0	Tracking balance adjustment output
32	FE	1	Focus error signal input (analog input)
33	TE	1	Tracking error signal input (analog input)
34	RFENV		RF envelope signal input
35	VDET		Vibration detection signal input ("H" : detection)

Pin No.	Mark	vo	Function
36	OFT	1	Off-track signal input ("H" : off track)
37	TRCRS	1	Track cross signal input
38	/RFDET	1	RF detection signal input ("L" : detection)
39	BDO	1	Dropout signal input ("H" : Dropout)
40	LDON	0	Laser on signal output ("H" : ON)
41	TES	0	Tracking error shunt signal output ("H" : shunt)
42	PLAY	0	Play signal out ("H" : PLAY)
43	WVEL	0	Double speed status signal output ("H" : DS)
44	ARF	1	RF signal input
45	IREF	I	Reference current input
46	DRF	I	DSL bias (Not used, open)
47	DSLF	I/O	DSL loop filter
48	PLLF	1/0	PLL loop filter
49	VCOF	1/0	VCO loop filter (Not used, open)
50	AVDD2	1	Power supply input (for analog circuit)
51	AVSS2		GND (for analog circuit)
52	EFM	0	EFM signal output (Not used, open)
53	PCK	0	PLL extraction clock ouput (Not used, open)
			(fPCK=4.321 MHz during normal playback)
54	PDO	0	Phase comparison signal of EFM and PCK signals
			(Not used, open)
55	SUBC	0	Sub-code serial data output (Not used, open)
56	SBCK	1	Sub-code frame clock signal output
			(fCLDCK=7.35kHz during normal playback)
57	VSS	_	GND
58	X1	1	Crystal oscillating circuit input (f=16.9344MHz)
59	X2	0	Crystal oscillating circuit output (f=16.9344MHz)
60	VDD	1	Power supply input (for oscillating circuit)
61	BYTCK	0	Byte clock output (Not used, open)
62	/CLDCK	0	Clock input for sub-code serial data
			(Not used, open)
63	FCLK	0	Crystal frame clock signal output
			(fCLK=7.35kHz, double=14.7kHz)
64	PFLAG	0	Interpolation flag output ("H" : interpolation)
			(Not used, open)
65	FLAG	0	Flag output (Not used, open)
66	CLVS	0	Spindle servo phase synchronizing signal output
			("H" : CLV, "L" : rough servo) (Not used, open)
67	CRC	0	Sub-code CRC checked output
		-	("H" : OK, "L" : NG) (Not used, open)
68	DEMPH	0	De-emphasis ON signal output
		-	("H" : ON) (Not used, open)
69	RESY	0	Frame resynchronizing signal output
			(Not used, open)
70	/RST2		Reset input through MASH circuit ("L" : Reset)
70			

Pin No.	Mark	vo	Function
72	AVDD1		Power supply input (for analog circuit)
73	OUTL	0	Left channel audio signal output
74	AVSS1		GND
75	OUTR	0	Right channel audio signal output
76	RSEL	1	RF signal polarity assignment input
			(at "H" level, RSEL="H", at "L" level, RESL="L")
77	CSEL	1	Crystal oscillating frequency designation input

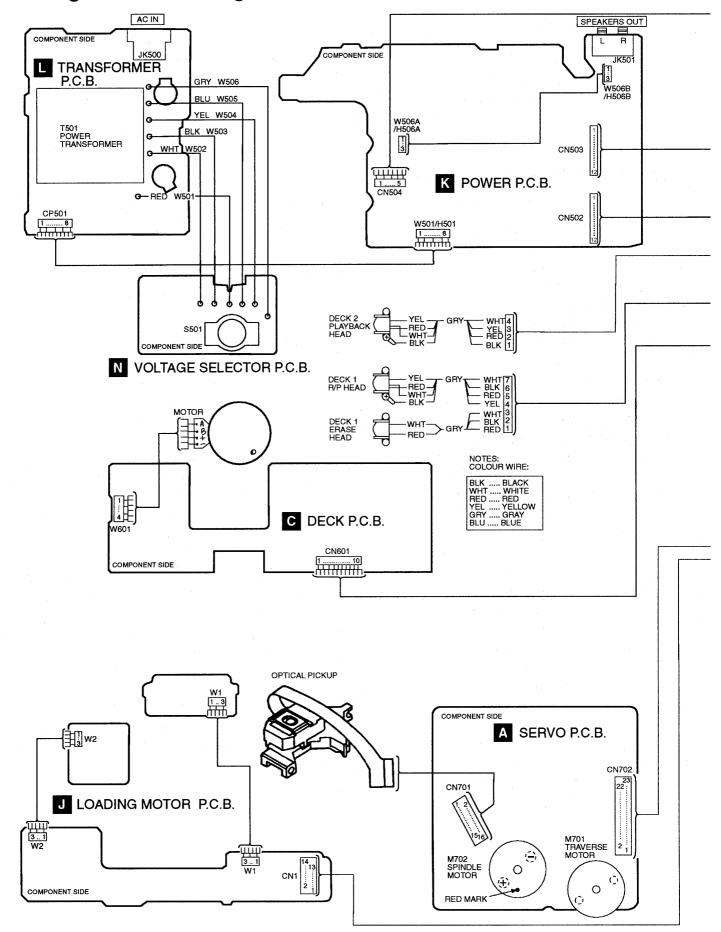
Pin No.	Mark	vo	Function
			"L" : 16.9344MHz "H" : 33.8688MHz
78	PSEL	1	Test input (normally "L") (Not used, open)
79	MSEL	I	Output mode switching of SUBQ terminal
			("H" : Q code buffer mode)
80	SSEL	1	Output frequency switching for SMCK terminal
		2	"H" : SMCK=8.4672MHz
			"L" : MCK=4.2336MHz (Not used, open)

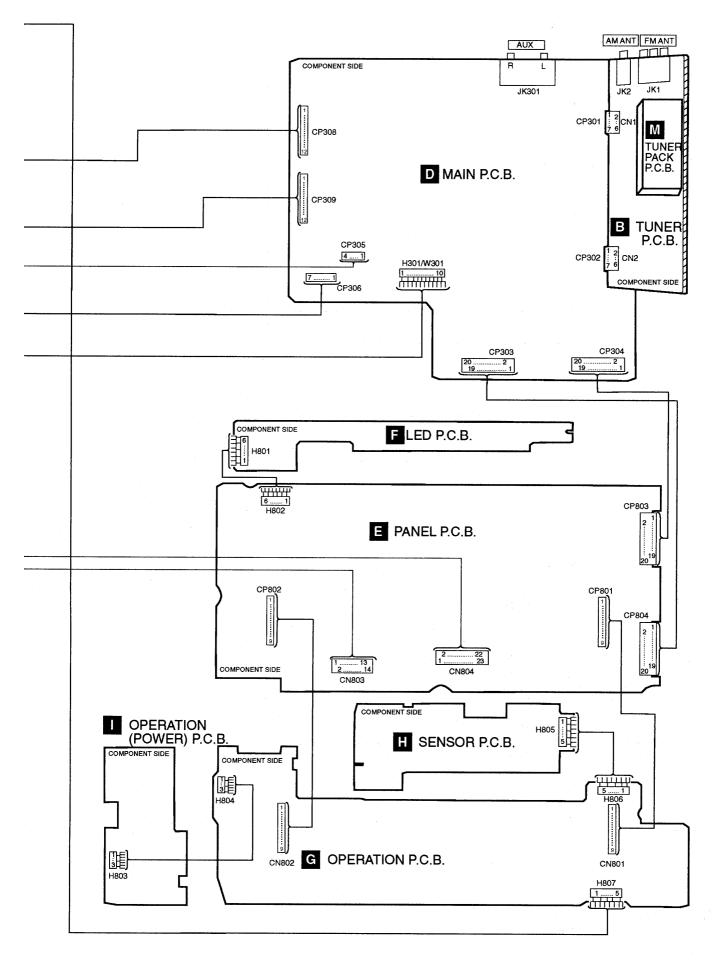
• IC901 (M38197MA139) System Microprocessor

Pin No.	Mark	VO	Function
1	DECK2	1	Mecha condition input(PLAY, FF/RW, MOTOR)
2	DECK 1	Ι	Mecha condition input(PLAY, FF/RW, MOTOR)
3	REC	1	Recinput
4	CRT	Ι	CRT timer
5	KEY 4	Ι	Key 4 input
6	KEY 3	I	Key 3 input
7	KEY 2	I	Key 2 input
8	KEY 1	Ι	Key 1 input
9	COM_CLK	0	Clock output for I/O exp. & sound processor
10	VOL MODE	1	Volume mode or volume curve select
11	SP_DATA	0	Data output for sound processor
12	SP_LATCH	0	LATCH output for sound processor
13	IO_DATA	0	Data output for I/O expander(BU2090)
14	CH_FWD	0	CD changer motor forward
15	CH_REV	0	CD changer motor reverse
16	CHG_SW1	ł	CD changer SW input (STK_SW, TUP_SW)
17	CHG_SW2	Ι	CD changer SW input
			(DR0_SW, PLY_SW, TN0_SW)
18	CDRST	0	CD reset output
19	STATUS	Ι	CD signal processor status input
20	SQCK	0	CD subcode clock output
21	CPU SEL	0	CD acceleration time select
22	SUBQ	1	CD subcode data input
23	TLOCK	Ι	CD tracking lock input
24	FLOCK	1	CD focus lock input
25	SENSE	1	CD servo processor sense input
26	MLD	0	CD command load output
27	MDATA	0	CD command data output
28	MCLK	0	CD command clock output
29	RESTSW	I	CD detect SW input for the most inside
30	BLKCK	ł	CD block clock input

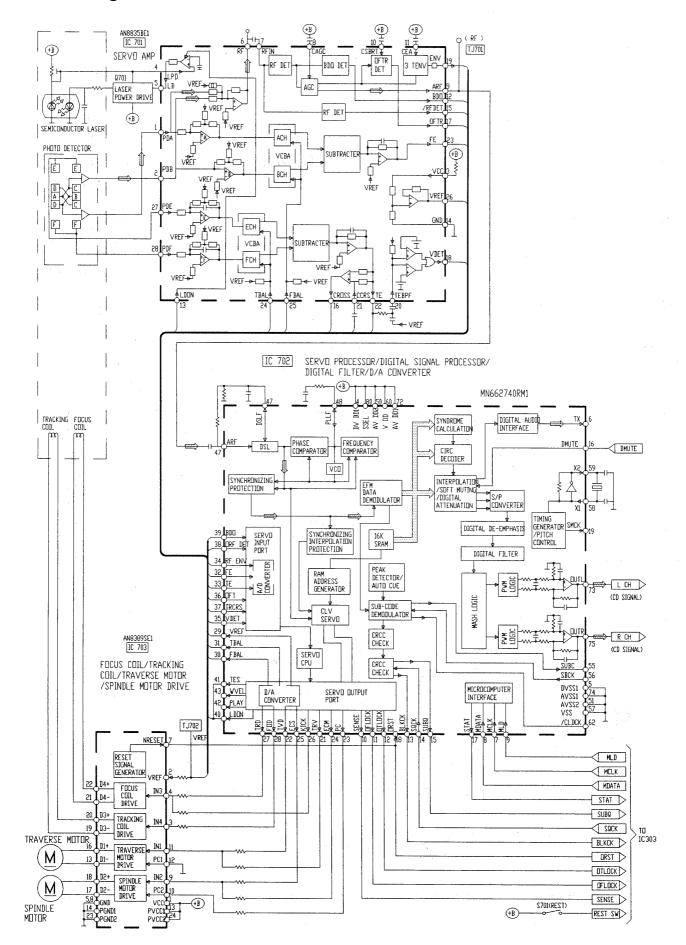
Pin No.	Mark	I/O	Function
31	RMT	1	Remote control input
32	DCDET	I	DC detect input
33	PCNT	0	Power control output
34	HALT	• 1 •	AC failure detect input
35	RESET	I	RESET input
36	XCIN	1	32.768 kHz sub clock
37	XCOUT	0	32.768 kHz sub clock
38	XIN	Ι.	6.0 MHz Main clock
39	XOUT	0	6.0 MHz Main clock
40	VSS	—	Ground (0V)
41	MBP1	0	MPU beat proof output 1
42	MBP2	0	MPU beat proof output 2
43	DMUTE	0	CD digital mute output
44-48	LED5-LED1	Ò	CD changer status indicator
49-54	N.C.	_	No connection
55-64	GRD10-GRD1	0	Digit drive output (GRID DRIVE OUTPUT)
65-83	AND1-AND19	0	Segment drive output
			(ANODE DRIVE OUTPUT)
84-88	REG1-REG5	I	Region and Karaoke function setting input
89	JOG A	I	Jog input A
90	JOG B	1	Jog input B
91	VCC	Ι	Powersupply(+5V)
92	PLLCE	0	Tuner PLL chip enable
93	PLLDA	0	Tuner PLL data output
94	PLLCK	0	Tuner PLL clock output
95	SD	I	Tuner signal DET input
96	STEREO	1	Tuner stereo DET input
97	DO	I	Tuner PLL if data input
98	VEE		Power supply (-30V)
99	AVSS		Analog ground (OV)
100	VREF	_	Reference for A-D

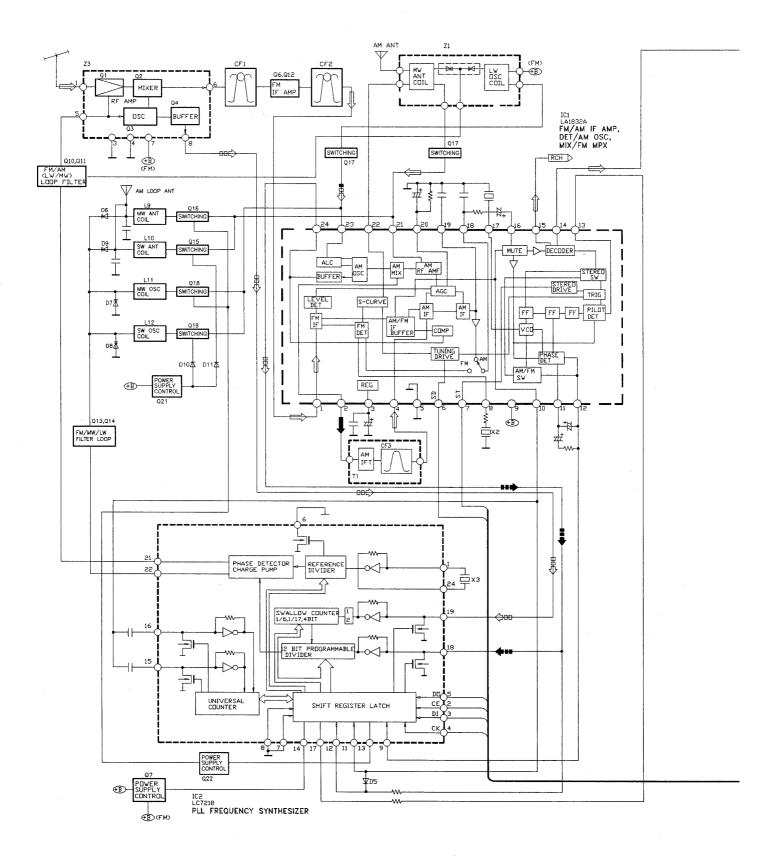
Wiring Connection Diagram

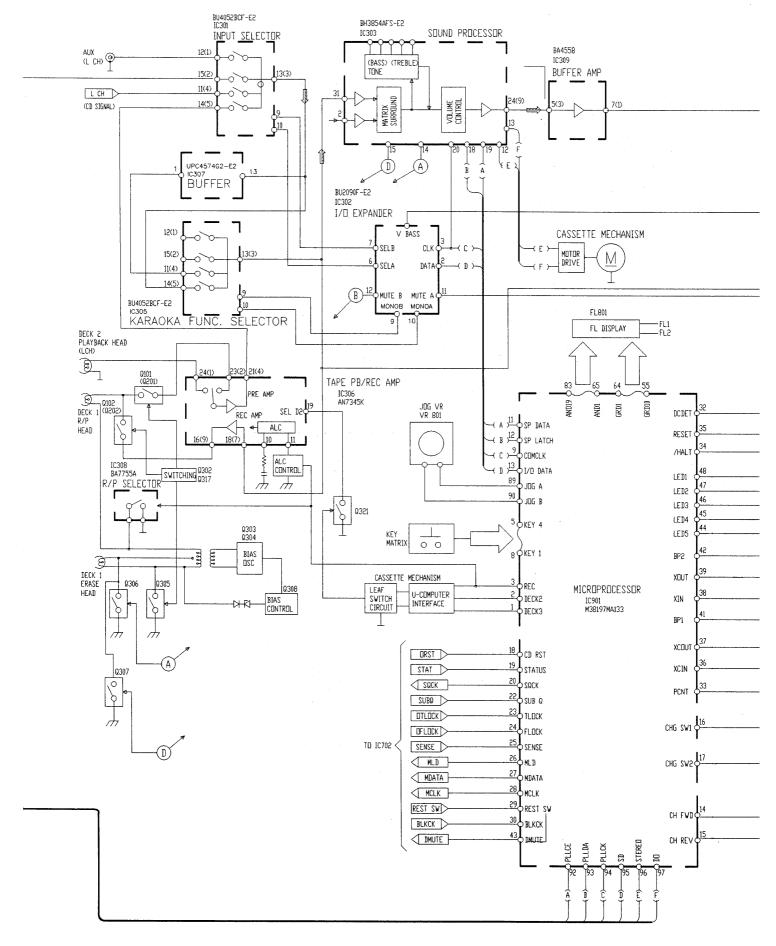




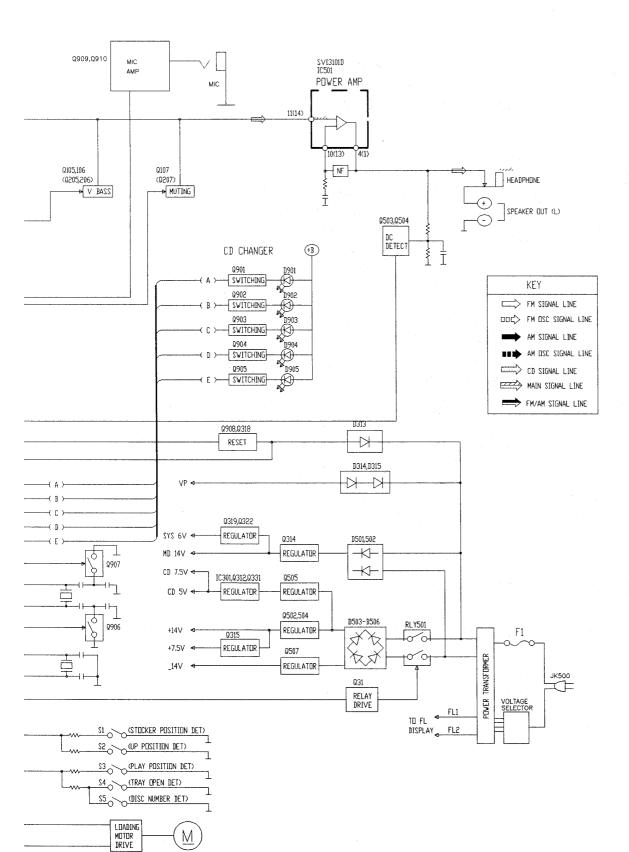
Block Diagram







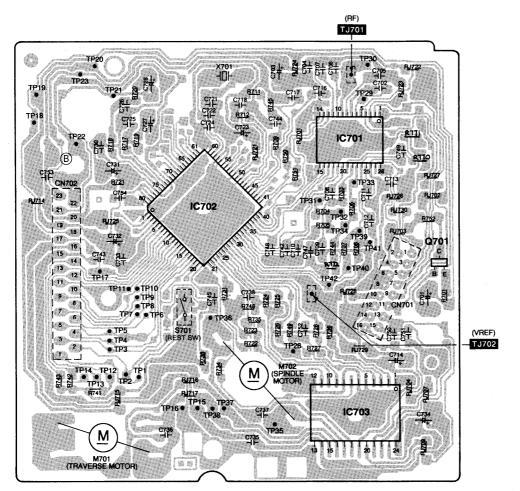
— 22 —



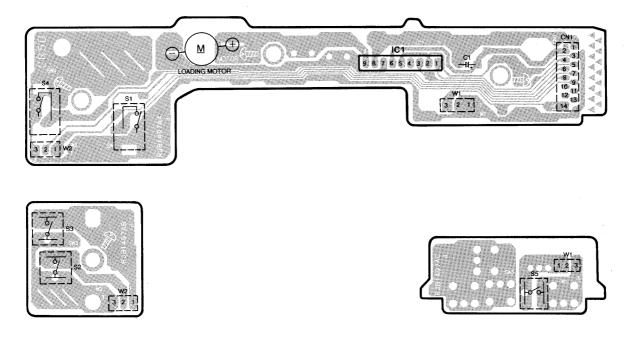
M

Printed Circuit Board

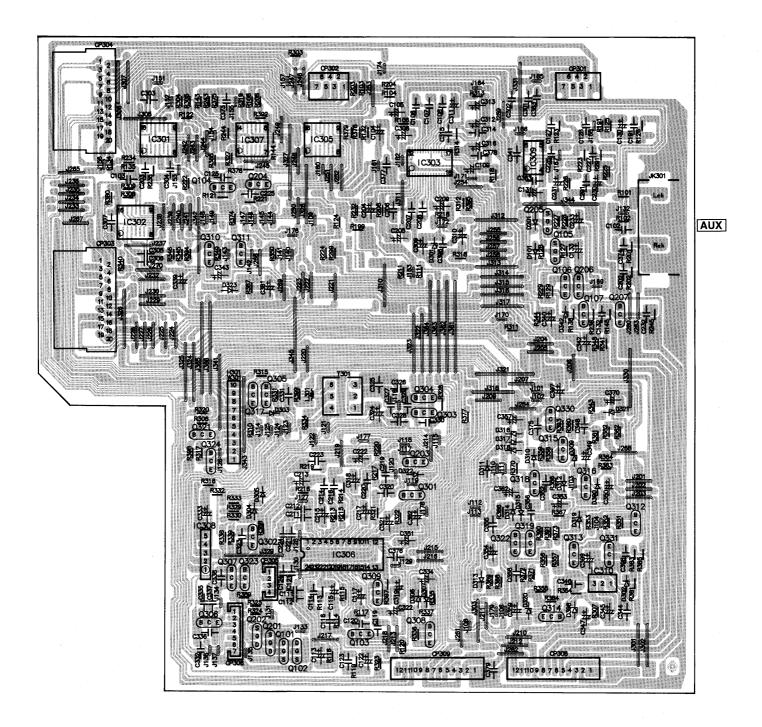
A SERVO P.C.B. (REPX0109)



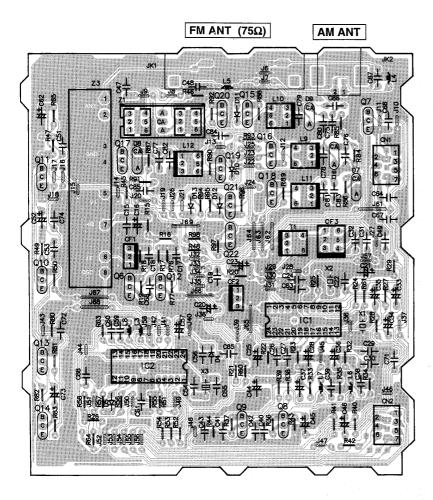
J LOADING MOTOR P.C.B. (REP2182A-N)



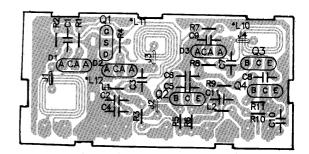
D MAIN P.C.B. (REPX0095D)



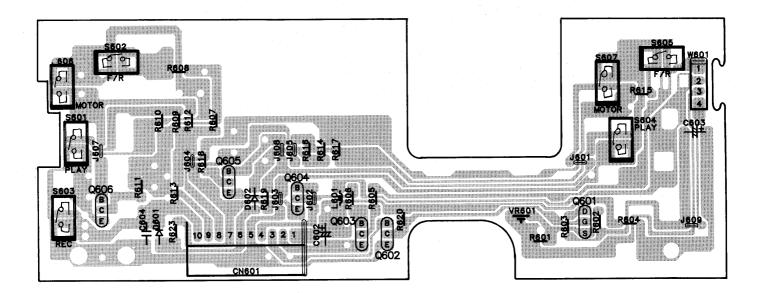
B TUNER P.C.B. (REP2000F)

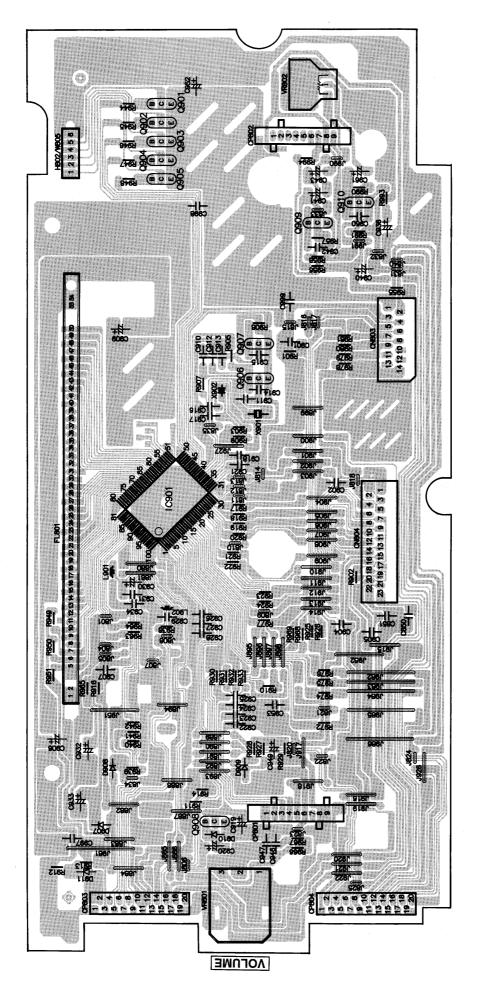


M TUNER PACK P.C.B. (REP1999B)

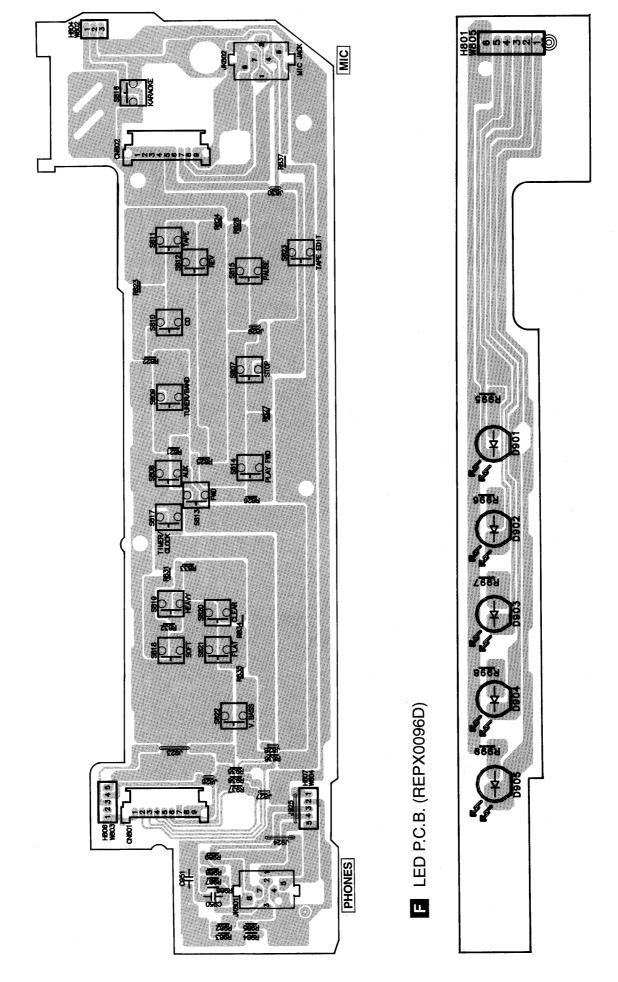


C DECK P.C.B. (REPX0097A)





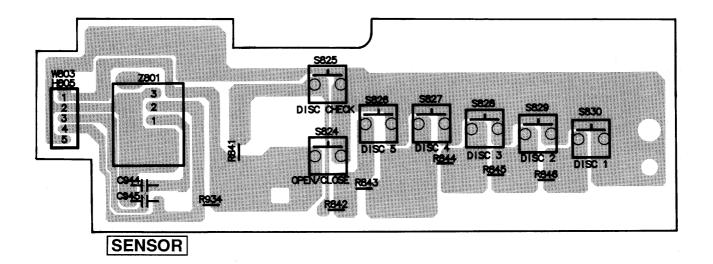
E PANEL P.C.B. (REPX0096D)



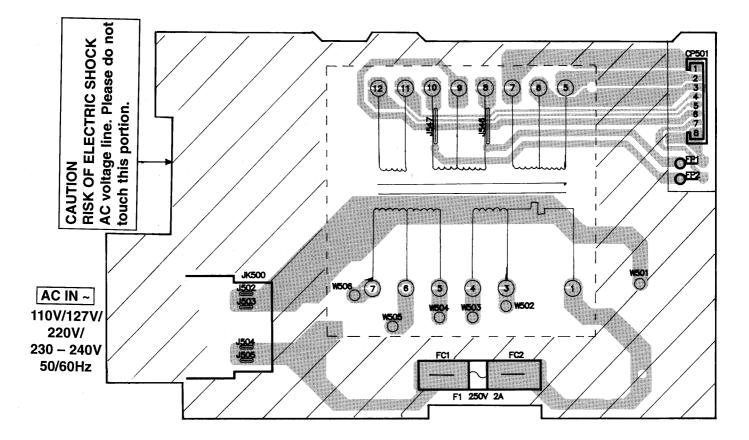
G OPERATION P.C.B. (REPX0096D)

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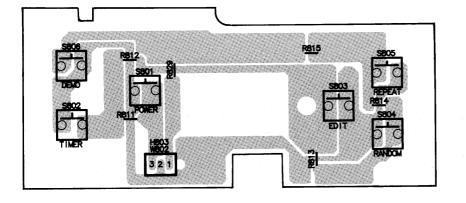
H SENSOR P.C.B. (REPX0096D)



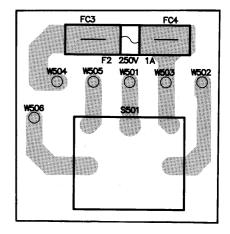
L TRANSFORMER P.C.B. (REPX0101E)



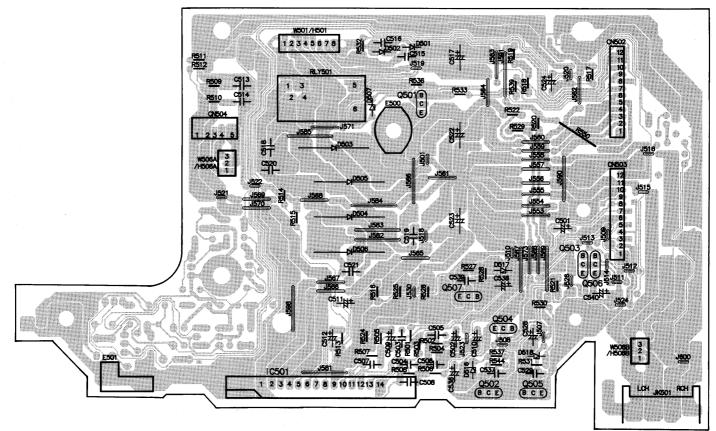
OPERATION(POWER) P.C.B. (REPX0096D)



VOLTAGE SELECTOR P.C.B. (REPX0101E)



K POWER P.C.B. (REPX0101E)

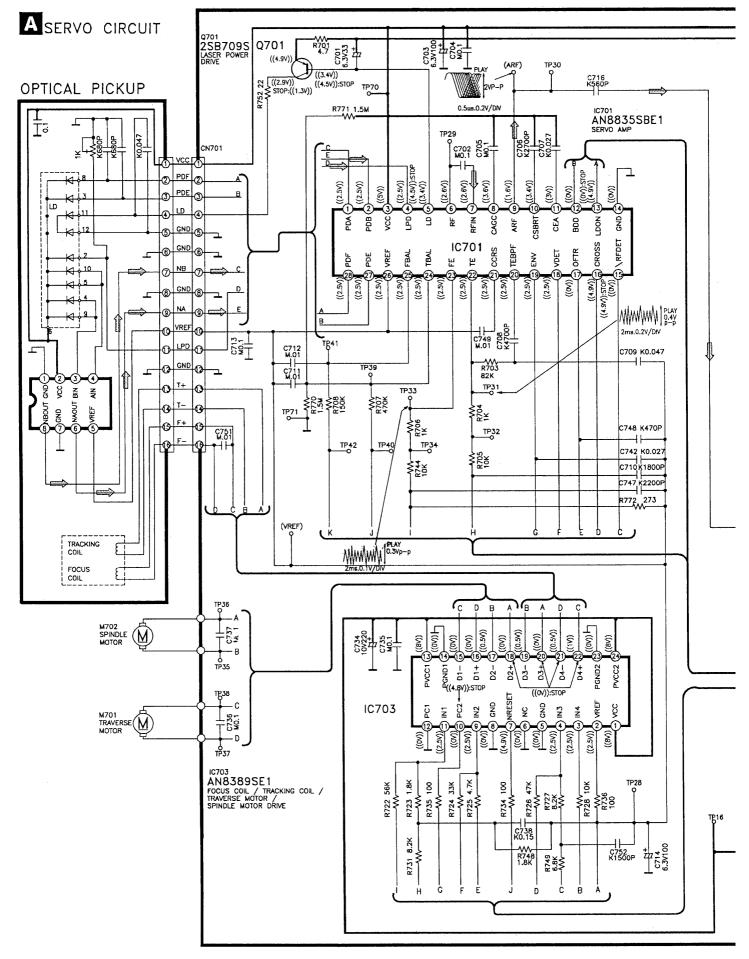


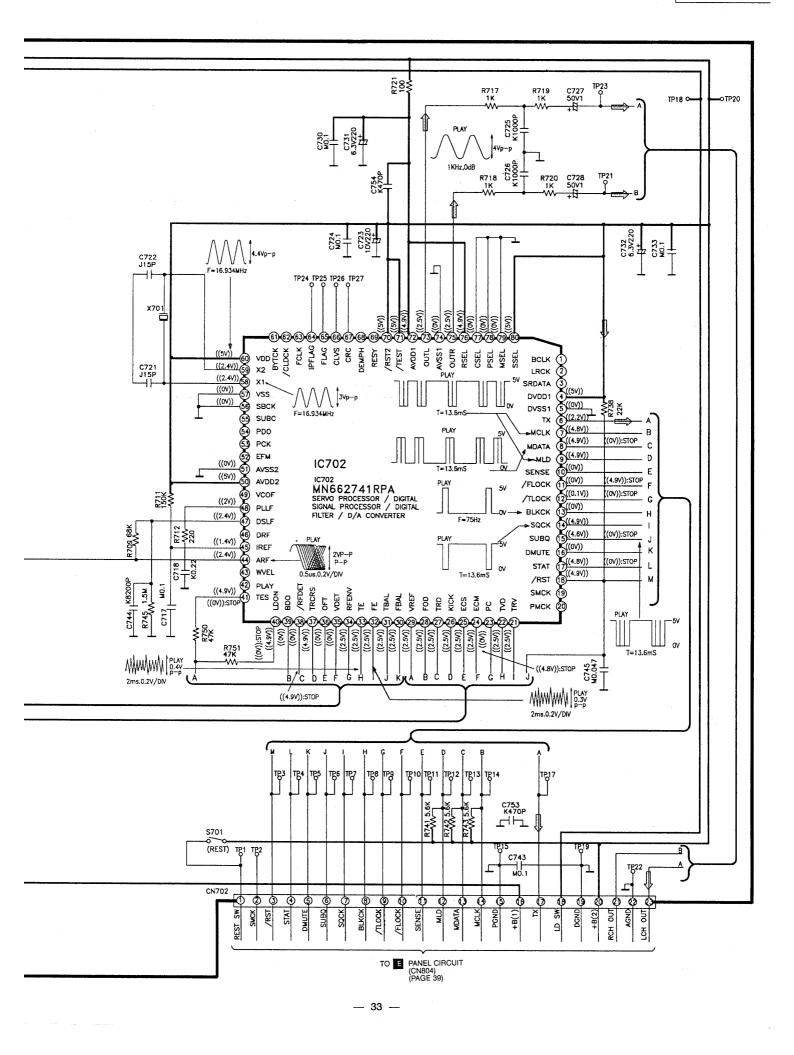
SPEAKERS

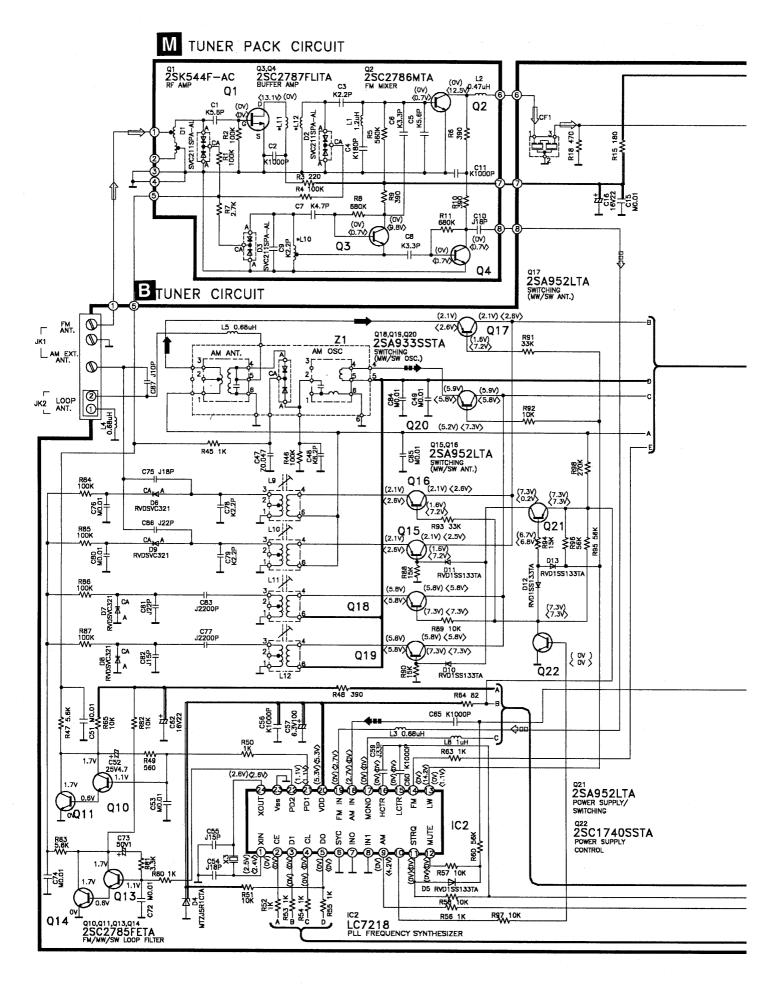
Terminal Guide of ICs, Transistors and Diodes

	T	1	r · · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	
AN8389SE1	BH3854AFS-E2	LA1832A LC7218 24 1 1 1 12	AN7345K	AN8835SBE1(28P) BU2090F-E2(16P) BU4052BCF-E2(16P) UPC4574G2-E2(14P)	BA6418N
BA4558FDXE2 8 1 4	AN78M05	BA7755A	RSN35H1	M38197MA139(100P) MN662741RPA(80P)	2SB709S B E
2SB1185E 2SD1762E BCE	2SB1357ETA 2SD2037ETA	2SJ40CDTA 2SK381CTA	2SK301QTA	2SA933SSTA 2SC1740SRTA 2SC1740SSTA RVTDTA143XST	BCE
2SA952LTA 2SC1684HRTA 2SC1685RTA 2SC2001KTA 2SC2001L1TA 2SD965RTA	ECB	2SK544F-AC	2SC2785FETA 2SC2785FTA 2SC2786MTA 2SC2787FL1TA 2SC2787FL1TA	BA1F4MTA BA1L3ZTA BN1L3NTA BN1L4MTA	BCE
2SC2784FTA 2SD1450STA BA1L4LTA BA1L4ZTA BN1A4MTA		SLR505DCT31	MTZJ12BTA MTZJ15BTA MTZJ15CTA MTZJ5R1CTA MTZJ6R2CTA MTZJ6R8BTA MTZJ7R5CTA	MTZJ8R2BTA RVDMTZ10BTA RVDMTZ11BTA RVDMTZ13BTA RVDMTZ4R7BTA RVDMTZ5R6BTA	Ca Cathode A Anode
1SS291TA MA29WATA RVD1SS133TA	Ca A Cathode Anode	1D3E 1N5402BM21 Ca Cathode Anode	SVC211SPA-AL	RVDSVC321	

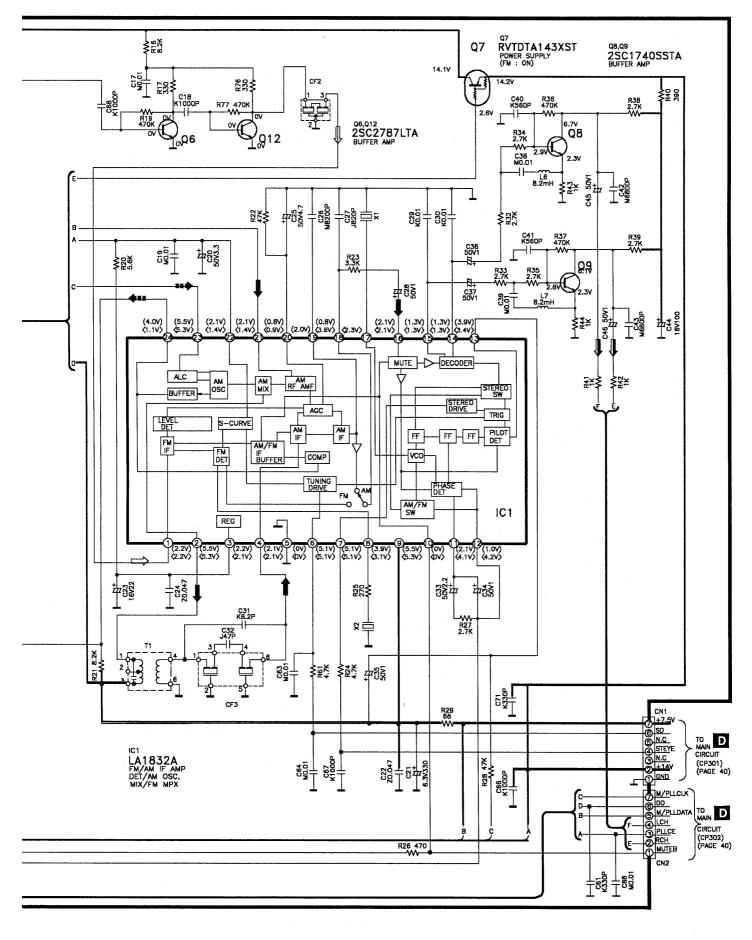
Schematic Diagram



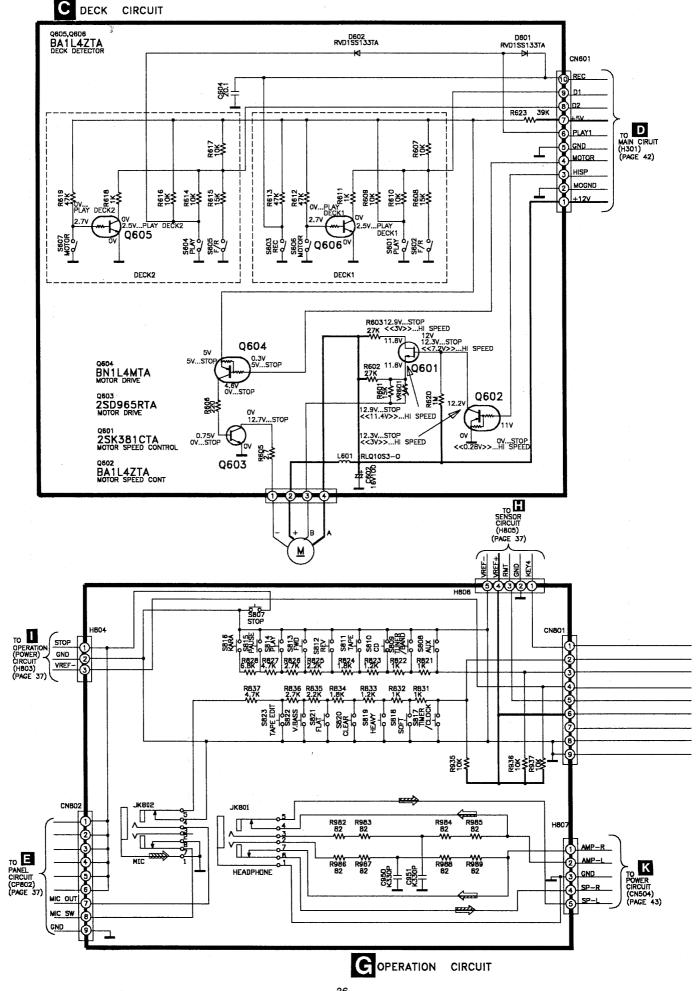




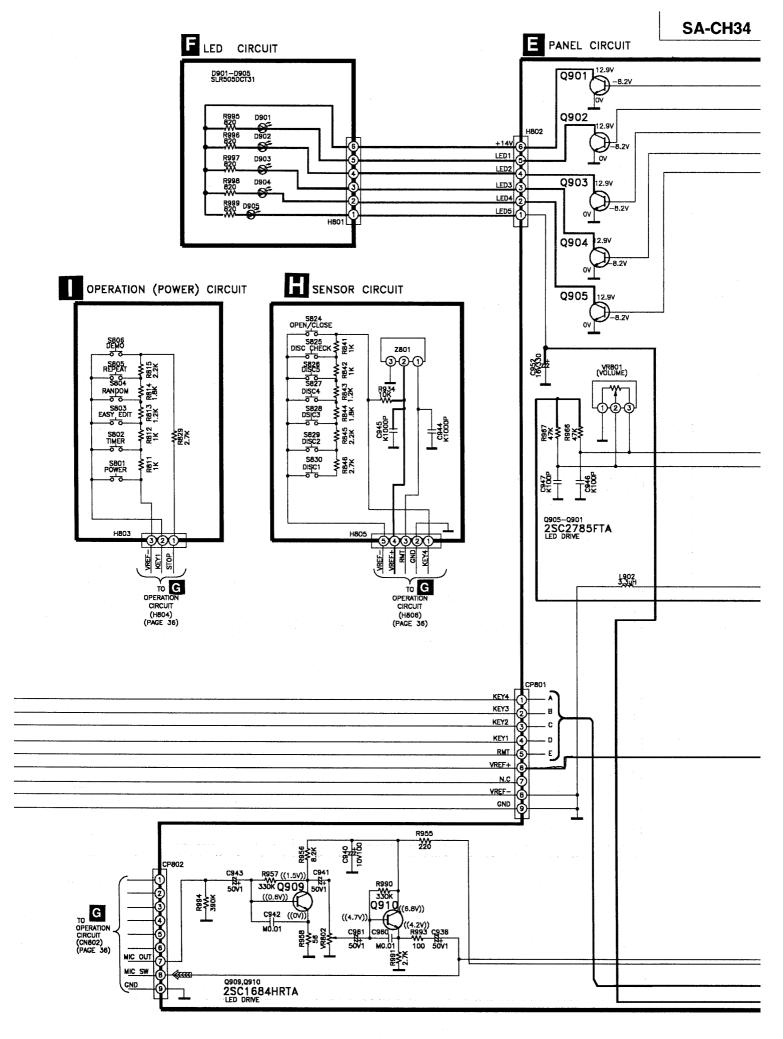
— 34 —



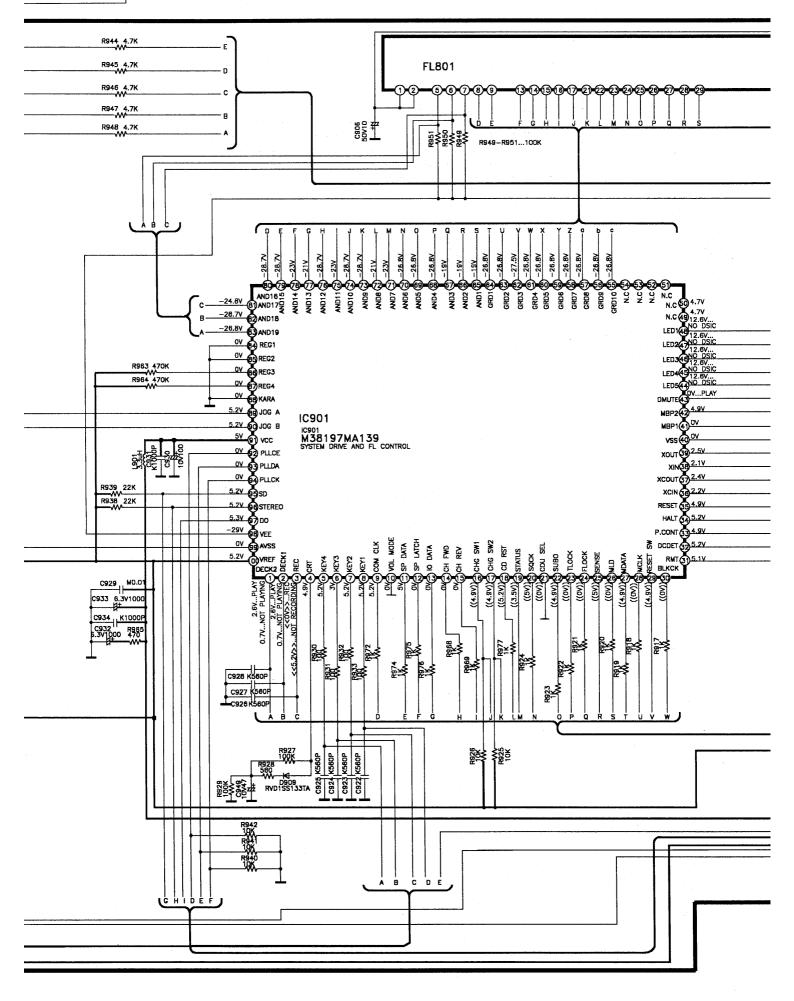
— 35 —

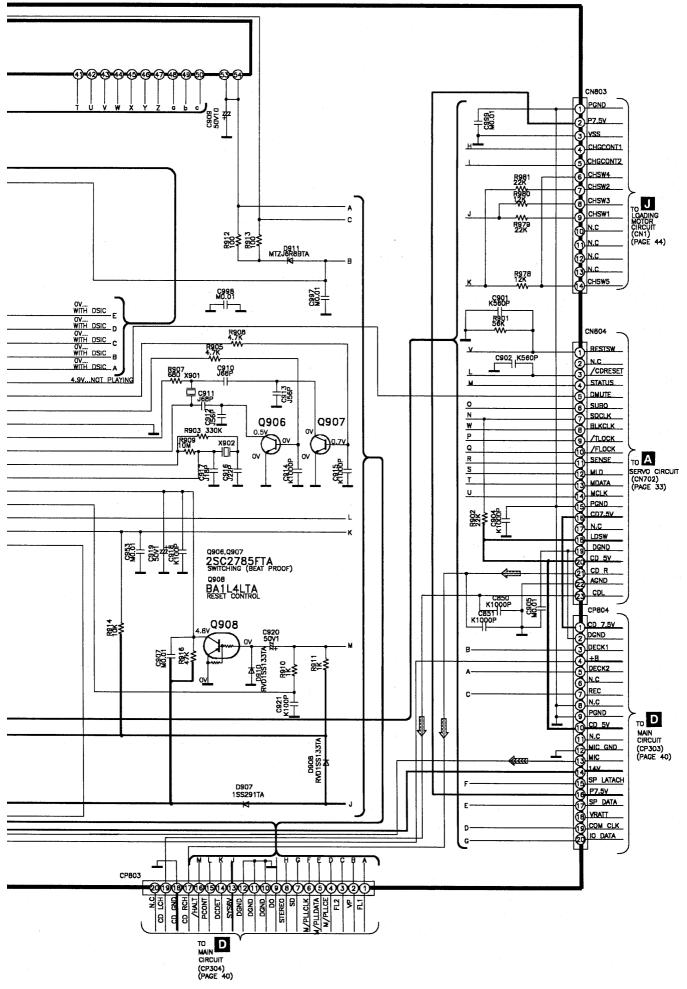


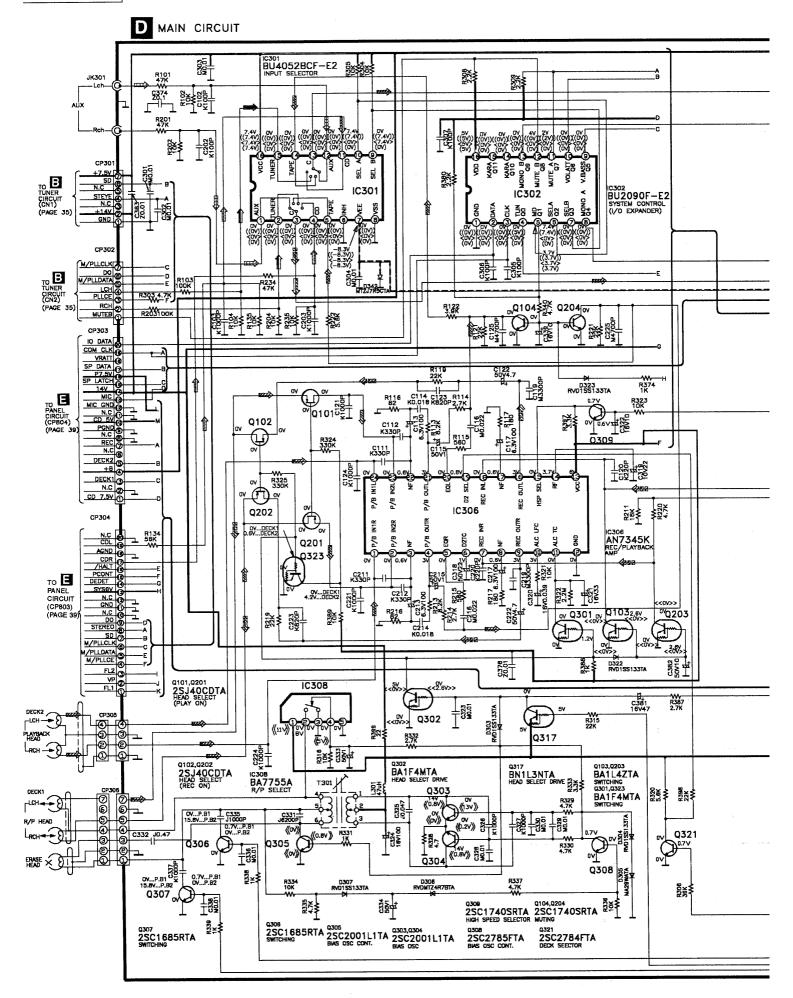
- 36 -



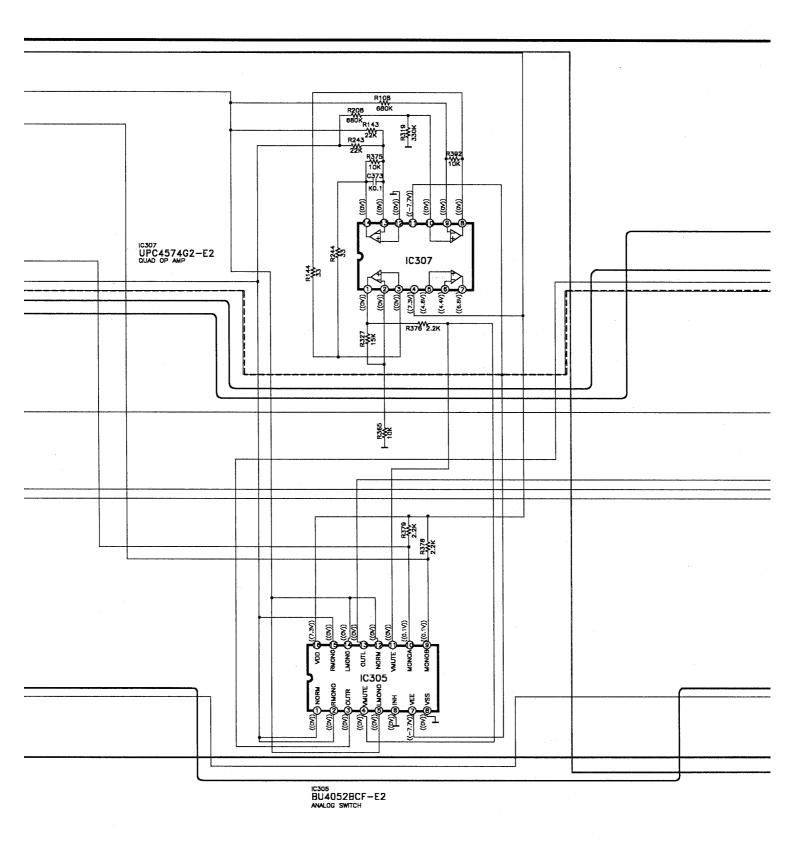
- 37 -

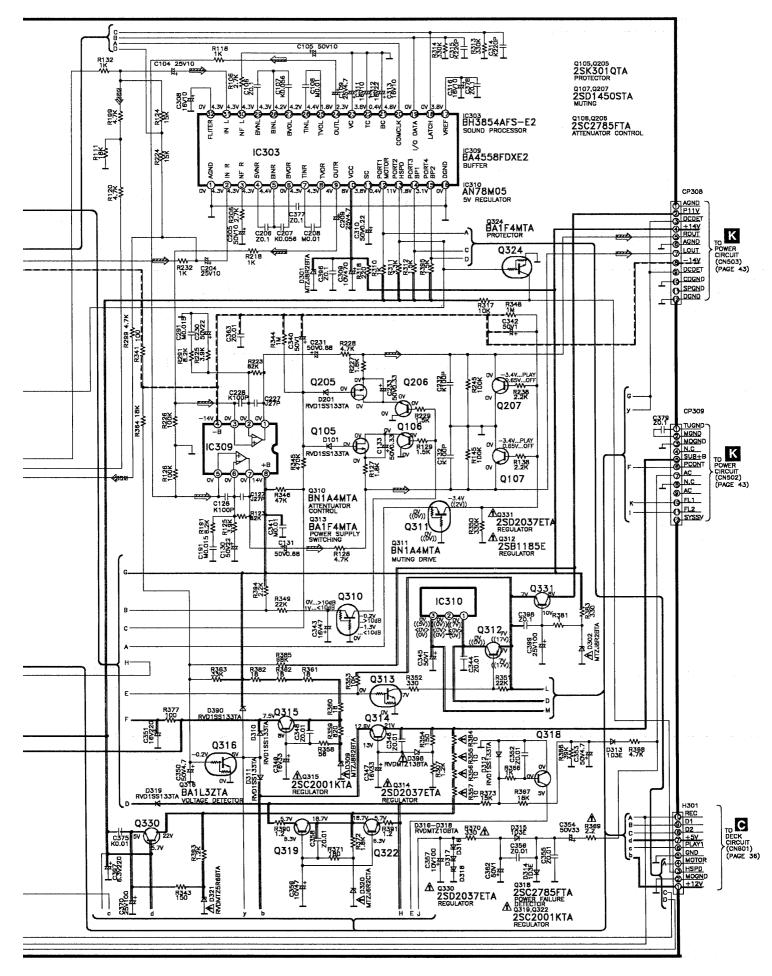




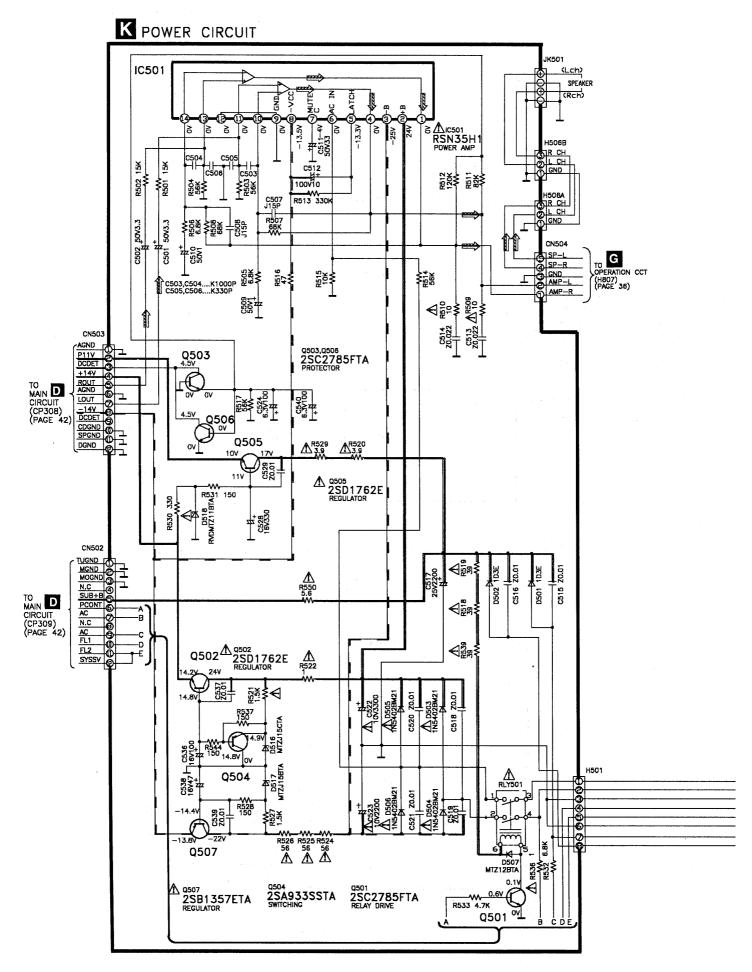


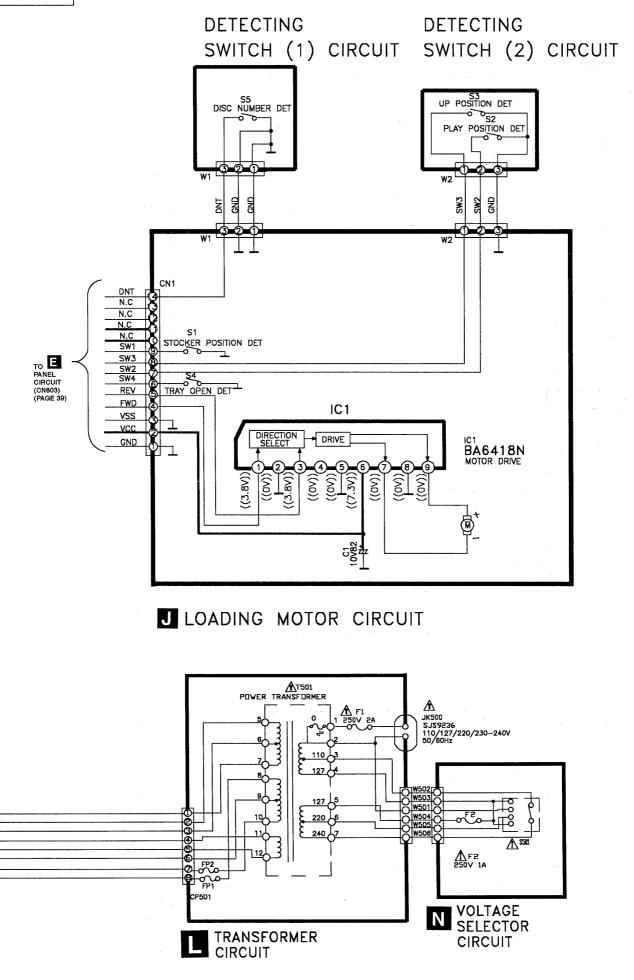
— 40 —





— 42 —





- 44 -

Schematic Diagram

< for Servo circuit > (Page 33)

(All schematic diagrams may be modified at any time with the development of new technology) Note :

• S701	: R	eset switch								
< for Deck of	; ircuit > (l	Page 36)								
• S601		eck 1 Tape Playba	ck switch							
• S602		eck 1 Fastwind sel								
• S603		eck 1 Record sele								
• S604		eck 2 Tape Playba								
• S605		eck 2 Fastwind sel								
• S606		eck 1 Motor switch								
• S607		eck 2 Motor switch								
• VR601		ape speed adjustm								
< for Panel	circuit, Se	ensor Circuit, O	peration	Circuit	and Opera	ation(Power	r) circuit >	(Page 36 & 3	7)	
• S801		ower switch				• S817	:	Timer/Clock sw	•	
• S802	: Ti	mer switch				• S818	:	Soft switch		
• S803	: Ea	asy Edit switch				• S819	:	Heavy switch		
• S804		andom switch				• S820		Clearswitch		
• S805		epeat switch				• S821	:	Flat switch		
• S806		mo switch				• S822		V. Bass switch		
• S807		op switch				• S823	:	Tape Edit switc	h	
• S808		JX switch				• S824		CD Open/Close		
• S809		iner/Band switch				• S825		CD Disc Check		
• S810) switch				• S826	:	CD Disc 5 swite		
• S811		peswitch				• S827	:	CD Disc 3 switc		
• S812		everse skip switch				• S828		CD Disc 3 switc		
• S813		orward skip switch				• S829		CD Disc 3 switc		
• S814		av forward switch				• S830		CD Disc 2 switc		
• S815		use switch				• VR801	:		1	
• S816		raoke switch				• VR802		Volume control Mic control		
- 0010	• • • • •	ITAOKE SWITCH				• • • • • • • • • • • • • • • • • • • •	ē	IVIC CONTO		
< for Transfe	ormer circ	uit > (Page 44)	1							
• S501		Itage selector swit								
		-								
	g Motor c	ircuit > (Page 4	14)							
• S1, S4	: Le	af switch.								
• S2, S3, S5	: Me	echa switch.								
•Signal line										
g				N						
	: +Blin	e			: Playbacl	csignal line			AM signal line	
inanan manan manan	: –Blin	e		DDD	: Record s	ignal line			AM OSC signal line	
	: FM/A	M signal line			: CD signa	al line		oooc\> :	FM OSC signal line	
	: Main	signal line			: FM signa	al line		. Am	Aux signal line	
	: MICs	ignalline								
•The voltage va	lue and wav	eforms are the ref	erence volta	ige of this	unitmeasu	red by DC ele	ctronic voltm	eter (high impeda	ance) and oscilloscope of	on the
basis of chase	sis.								tester or the measuring	
No mark : Playt	oack <<	>>Rec	{ }: Tu	iner	(())	: CD	()	. AM	< > FM	
Importances	afatu nation	•								

Components identified by \triangle mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

Caution !

IC, LSI and VLSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

•Cover the parts boxes made of plastics with aluminium foil.

•Put a conductive mat on the work table.

•Ground the soldering iron.

•Do not touch the pins of IC, LSI or VLSI with fingers directly.

Replacement Parts List

Notes: • Important safety notice :

Components identified by A mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list. [M] indicates in Remarks column parts that are supplied by **MESA**. The "(SF)" mark denotes the standard part. Remote Control Unit : Supply period for three years from terminal of production. **Warning:** This product uses a laser diode. Refer to caution statements on page 3.

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- •
- - ACHTUNG : • Die lasereinheit nicht zerlegen.

• Die lasereinheit darf nur gegen eine vom hersteller spezifizierte einheit ausgetauscht werden.

					- D - M			5 434	D . M		
Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASS	s	34	RMB0447	CD LID SPRING	[M]	IC306	AN7345K	IC, REC PLAYBACK	[M]
				35	RMC0158-S	TR FIXTURE	[M]	IC307	UPC4574G2-E2	IC, QUAD OP AMP	[M]
1	RDG5874ZB	DAMPER GEAR	[M]	36	RMEX0002	CASS. OPEN SPRING	[M]	IC308	BA7755A	IC, SWITCH	
2	REE0657	14P FFC		37	RMNX0011	FL HOLDER	[M]	IC309	BA4558FDXE2	IC, OP AMP	[M]
3	REE0658	23P FFC		38	RMR0368	PCB CHASSIS	[M]	IC310	AN78M05	IC, 5V REGLILATOR	
4	REXX0120	SHIELD WIRE (REC)	[M]	39	RMR0653-K	HEAT SINK SUPPORT(L)	[M]	IC501	RSN35H1	IC, HYBRID	Â
5	REXX0121	SHIELD WIRE (PLAY)	[M]	40	RMR0654-K	HEAT SINK SUPPORT(R)	[M]	IC901	M38197MA139	IC, MICROPROCESSOR	[M]
6	RFKGACH34GCK	FRONT PANEL ASS'Y	[M]	41	RMR0741-X	PCB SUPPORT (PIN)	[M]				
6-1	RKA0059-K	LEG RUBBER	[M]	42	RMR0824-W	WIRE CLAMPER				TRANSISTORS	
7	RFKNACH430GB	5-LED REFLECTOR ASSY		43	RMR0908-X	PANEL PCB SUPPORT	[M]				
8	RFKJACH430GK	BOTTOM CHASSIS ASS'Y	1	44	RMRX0007	MECHA SUPPORT (L)	[M]	Q1	2SK544F-AC	TRANSISTOR	
8-1	RKA0059-K	LEG RUBBER	[M]	45	RMRX0008	MECHA SUPPORT (R)	[M]	Q2	2SC2786MTA	TRANSISTOR	
9	RFKLACH34PK	CASS. HOLDER ASS'Y	[M]	46	RMRX0022	MAIN PCB HOLDER	[M]	Q3	2SC2787FL1TA	TRANSISTOR	
9-1	RUS757ZAA	CASS. HALF SPRING	[M]	47	RMXX0004	MECHA SPACER	[M]	Q4	2SC2787FL1TA	TRANSISTOR	
10	RKFX0043C-K	REAR PANEL	[M]	48	RSC0027	SHIELD COVER		Q6	2SC2787LTA	TRANSISTOR	
11	RGK0767A-K	CHANGER LID	[M]	49	RSC0362	EARTH TERMINAL	[M]	Q7	RVTDTA143XST	TRANSISTOR	
12	RGU1303-K	POWER BUTTON	[M]	50	RXXX0005	HEAT SINK UNIT	[M]	Q8	2SC1740SSTA	TRANSISTOR	
13	RGU1304A-K	DISK BUTTON	[M]	51	SHE187-4	PCB SUPPORT (NO PIN)	[M]	Q9	2SC1740SSTA	TRANSISTOR	
14	RGU1307-K	FUNCTION BUTTON	[M]	52	XTB3+10J	SCREW		Q10	2SC2785FETA	TRANSISTOR	
15	RGUX0139-K	CONTROL BUTTON 1	[M]	53	XTB3+10JFZ	REAR PANEL SCREW		Q11	2SC2785FETA	TRANSISTOR	·····
16	RGUX0140-K	CONTROL BUTTON 2	[M]	54	XTB3+20J	POWER PCB SCREW		Q12	2SC2787LTA	TRANSISTOR	
17	RGUX0141-K	EQ BUTTON	[M]	55	XTBS26+10J	PANEL SCREW		Q13	2SC2785FETA	TRANSISTOR	
18	RGW0238-K	MAIN VOLUME KNOB	[M]	56	XTN2+14GF	MECHANISM PCB SCREW	[M]	Q14	2SC2785FETA	TRANSISTOR	
19	RGZX0021A-K	MECHA BUTTON (L)	[M]	57	XTV3+12GFZ	VOLTAGE S. SCREW		Q15	2SA952LTA	TRANSISTOR	[M]
20	RGZX0021B-K	MECHA BUTTON (R)	[M]	58	XTW3+15T	POWER IC SCREW		Q16	2SA952LTA	TRANSISTOR	[M]
21	RHD30007	CABINET SCREW		59	RFKNACH34PK	HOLDER ARM ASS'Y	[M]	Q17	2SA952LTA	TRANSISTOR	[M]
22	RHD30048	CD MECHANISM SCREW	[M]	60	RME0221	HOLDER ARM SPRING	[M]	Q18	2SA933SSTA	TRANSISTOR	
23	RKFX0048-K	CASS LID (L)	[M]	61	RMN0350	8 LED HOLDER	[M]	Q19	2SA933SSTA	TRANSISTOR	
24	RKFX0049-K	CASS LID (R)	[M]	62	RGW0237-K	MIC KNOB	[M]	Q20	2SA933SSTA	TRANSISTOR	
25	RKM0309-K	CHANGER CHASSIS	[M]					Q21	2SA952LTA	TRANSISTOR	[M]
26	RKM0310-K	TOP CABINET	[M]			INTEGRATED CIRCUIT	s	Q22	2SC1740SSTA	TRANSISTOR	
27	RKW0414-Q	SENSOR WINDOW	[M]				5. C	Q101	2SJ40CDTA	TRANSISTOR	
28	RKW0415-Q	CHANGER WINDOW	[M]	IC1	LA1832A	IC, IF/MPX		Q102	2SJ40CDTA	TRANSISTOR	
29	RKW0416B-Q	FL WINDOW	[M]	1C2	LC7218	IC, PLL		Q103	BA1L4ZTA	TRANSISTOR	[M]
30	RKWX0076-Q	CASSETTE LID WIN(L)	[M]	IC301	BU4052BCF-E2	IC, ANALOG SWITCH		Q104	2SC1740SRTA	TRANSISTOR	
31	RKWX0077-Q	CASSETTE LID WIN(R)	[M]	1C302	BU2090F-E2	IC, IO EXPANDER	[M]	Q105	2SK301QTA	TRANSISTOR	[M]
32	RMA0938	REAR SUPPORT ANGLE	[M]	1C303	BH3854AFS-E2	IC, SOUND PROCESSOR		Q106	2SC2785FTA	TRANSISTOR	-
33	RMAX0006	ANGLE PLATE	[M]	IC305	BU4052BCF-E2	IC, ANALOG SW		Q107	2SD1450STA	TRANSISTOR	

			D 1	D. CM	D (N		D. I	D. OL	Dath		Dental
Ref No.		Part Name & Description	Remarks	Ref No.		Part Name & Description	Remarks	Ref No.		Part Name & Description	Remarks
Q201	2SJ40CDTA	TRANSISTOR		Q904	2SC2785FTA	TRANSISTOR		D390	RVD1SS133TA	DIODE	
Q202	2SJ40CDTA	TRANSISTOR		Q905	2SC2785FTA	TRANSISTOR		D398	RVDMTZ13BTA		Â.
Q203	BA1L4ZTA	TRANSISTOR	[M]	Q906	2SC2785FTA	TRANSISTOR		D501	1D3E	DIODE	[M]
Q204	2SC1740SRTA	TRANSISTOR		Q907	2SC2785FTA	TRANSISTOR		D502	1D3E	DIODE	[M]
Q205	2SK301QTA	TRANSISTOR	[M]	Q908	BA1L4LTA	TRANSISTOR	[M]	D503	1N5402BM21	DIODE	Â
Q206	2SC2785FTA	TRANSISTOR		Q909	2SC1684HRTA	TRANSISTOR		D504	1N5402BM21	DIODE	<u>A</u>
Q207	2SD1450STA	TRANSISTOR		Q910	2SC1684HRTA	TRANSISTOR		D505	1N5402BM21	DIODE	Â.
Q301	BA1F4MTA	TRANSISTOR	[M]					D506	1N5402BM21	DIODE	Â
Q302	BA1F4MTA	TRANSISTOR	[M]			DIODES		D507	MTZJ12BTA	DIODE	-
Q303	2SC2001L1TA	TRANSISTOR						D516	MTZJ15CTA	DIODE	
Q304	2SC2001L1TA	TRANSISTOR		D1	SVC211SPA-AL	DIODE		D517	MTZJ15BTA	DIODE	[M]
Q305	2SC2001L1TA	TRANSISTOR		D2	SVC211SPA-AL	DIODE		D518	RVDMTZ11BTA	DIODE	Â
Q306	2SC1685RTA	TRANSISTOR	[M]	D3	SVC211SPA-AL	DIODE		D601	RVD1SS133TA	DIODE	
Q307	2SC1685RTA	TRANSISTOR	[M]	D4	MTZJ5R1CTA	DIODE	[M]	D602	RVD1SS133TA	DIODE	
Q308	2SC2785FTA	TRANSISTOR		D5	RVD1SS133TA	DIODE		D901	SLR505DCT31	DIODE	[M]
Q309	2SC1740SRTA	TRANSISTOR		D6	RVDSVC321	DIODE		D902	SLR505DCT31	DIODE	[M]
Q310	BN1A4MTA	TRANSISTOR	[M]	D7	RVDSVC321	DIODE		D903	SLR505DCT31	DIODE	[M]
<u> </u>	BN1A4MTA	TRANSISTOR	[M]	D8	RVDSVC321	DIODE		D904	SLR505DCT31	DIODE	[M]
Q312	2SB1185E	TRANSISTOR	Λ	D9	RVDSVC321	DIODE		D905	SLR505DCT31	DIODE	[M]
	BA1F4MTA	TRANSISTOR	[M]	D10	RVD1SS133TA	DIODE		D907	1SS291TA	DIODE	
Q314	2SD2037ETA	TRANSISTOR	[M] <u>A</u>	D11	RVD1SS133TA				RVD1SS133TA	DIODE	
	2SC2001KTA	TRANSISTOR	Λ	D12	RVD1SS133TA	· · · · · · · · · · · · · · · · · · ·		D909	RVD1SS133TA		
	BA1L3ZTA	TRANSISTOR	[M]	D13	RVD1SS133TA			D910	RVD1SS133TA		
	BN1L3NTA	TRANSISTOR	[M]	D101	RVD1SS133TA			D911			
	2SC2785FTA	TRANSISTOR	[141]	D201	RVD1SS133TA				INT ZOOTIOD TA		
		TRANSISTOR	A	D301	MTZJ8R2BTA	DIODE	[M]			VARIABLE RESISTORS	
	2SC2001KTA		<u>л</u> [М]		MTZJ8R2BTA	DIODE				TARIABLE RESISTOR	
Q321	2SC2784FTA	TRANSISTOR	· · ·	D302 D303	RVD1SS133TA		[M] <u>A</u>		EVNDXAA00B24		
	2SC2001KTA										
	BA1F4MTA	TRANSISTOR	[M]	D304	RVD1SS133TA				RRV16B24104B		
	BA1F4MTA	TRANSISTOR	[M]		MA29WATA	DIODE		VH802	RRV09A03B14A	ИН, МІС	
	2SD2037ETA	TRANSISTOR	[M] <u>^</u>	D306	RVDMTZ4R7BTA						
Q331	2SD2037ETA	TRANSISTOR	[M] <u>A</u>	D307	RVD1SS133TA					SWITCHES	
	2SC2785FTA	TRANSISTOR				DIODE	[M] <u>A</u>			· .	
	2SD1762E	TRANSISTOR	[M] <u>/</u>	D310	RVD1SS133TA			S501		SW, VOLTAGE SELECTOR	
Q503	2SC2785FTA	TRANSISTOR		D311	RVD1SS133TA			S601		SW, PLAY (DECK 1)	[M]
	2SA933SSTA	TRANSISTOR			RVD1SS133TA			S602		SW, F/R (DECK 1)	[M]
Q505	2SD1762E	TRANSISTOR	[M] <u>/</u>		1D3E	DIODE	[M]	S603		SW, REC (DECK 1)	[M]
Q506	2SC2785FTA	TRANSISTOR		D314	1D3E	DIODE	[M]	S604	RSH1A004-1	SW, PLAY (DECK 2)	[M]
Q507	2SB1357ETA	TRANSISTOR	[M] <u>/</u>	D315	1D3E	DIODE	[M]	S605		SW, F/R (DECK 2)	[M]
Q601	2SK381CTA	TRANSISTOR		D316	RVDMTZ10BTA	DIODE		S606	RSH1A013-21	SW, MOTOR (DECK 1)	<u> </u>
Q602	BA1L4ZTA	TRANSISTOR	[M]	D317	RVDMTZ10BTA	DIODE		S607	RSH1A013-21	SW, MOTOR (DECK 2)	[M]
Q603	2SD965RTA	TRANSISTOR		D318	RVDMTZ10BTA	DIODE		S801	EVQ21405R	SW, POWER	
Q604	BN1L4MTA	TRANSISTOR	[M]	D319	RVD1SS133TA	DIODE		S802	EVQ21405R	SW, TIMER	
Q605	BA1L4ZTA	TRANSISTOR	[M]	D320	MTZJ6R2CTA	DIODE	A	S803	EVQ21405R	SW, EASY EDIT	
Q606	BA1L4ZTA	TRANSISTOR	[M]	D321	RVDMTZ5R6BTA	DIODE	Â	S804	EVQ21405R	SW, RANDOM	
Q901	2SC2785FTA	TRANSISTOR		D322	RVD1SS133TA	DIODE		S805	EVQ21405R	SW, REPEAT	
Q902	2SC2785FTA	TRANSISTOR		D323	RVD1SS133TA	DIODE		S806	EVQ21405R	SW, DEMO	
Q903	2SC2785FTA	TRANSISTOR		D342	MTZJ7R5CTA	DIODE		S807	EVQ21405R	SW, STOP	

Ref No.	Part No.	Part Name & Description	Demarks	Ref No	Part No.	Part Name & Description	Demarka	Ref No.	Part No.	Part Name & Description	Bamark
		_	Remarks						Partino.	-	Kemark
	EVQ21405R	SW, AUX		CP804	RJT077K20	20P B-B CONNECTOR	[M]			EARTH TERMINAL	
	EVQ21405R	SW, TUNER/BAND	ļ				-				
	EVQ21405R	SW, CD				COILS & TRANSFORM	ERS	E500	SNE1004-2	EARTH TERMINAL	
S811	EVQ21405R	SW, TAPE									
	EVQ21405R	SW, REV		L1	RLQZP1R2KT-Y	+				RELAY	
S813	EVQ21405R	SW, FWD		L2	RLQZPR47KT-Y						
	EVQ21405R	SW, PLAY FWD		L3	RLQZPR68KT-Y			RLY501	RSY0017-0	CD CHANGER RELAY	[M] <u>/</u>
	EVQ21405R	SW, PAUSE		L4	ELEPKR68MA	RF CHOKE COIL					
	EVQ21405R	SW, KARAOKE		L5	ELEPKR68MA	RF CHOKE COIL				FUSES	· · · ·
	EVQ21405R	SW, TIMER/CLOCK		L6	ELELN822KL	RF CHOKE COIL					
S818	EVQ21405R	SW, SOFT		L7	ELELN822KL	RF CHOKE COIL			XBA2C20TB0L	FUSE	[M] <u>^</u>
S819	EVQ21405R	SW, HEAVY		L8	RLQZP1R0KT-Y			F2	XBA2C10TB0	FUSE	Â
S820	EVQ21405R	SW, CLEAR		L9	RL03B98-M	SW1 ANT COIL	[M]		· · ·		
S821	EVQ21405R	SW, FLAT	ļ	L10	RL03B99-M	SW2 OSC COIL	[M]			FUSE CLIPS	
S822	EVQ21405R	SW, V. BASS		L11	RL03B98-M	SW1 ANT COIL	[M]				
S823	EVQ21405R	SW, TAPE EDIT		L12	RL03B99-M	SW2 OSC COIL	[M]	FC1	SJT388	FUSE CLIP	
S824	EVQ21405R	SW, CD OPEN/CLOSE		L301	RLQZB470KT-D			FC2	SJT388	FUSE CLIP	
S825	EVQ21405R	SW, CD DISC CHECK		L601	RLQY10S3-0	COIL		FC3	SJT388	FUSE CLIP	
	EVQ21405R	SW, DISC 5		L901	RLQZP3R3KT-Y	COIL		FC4	SJT388	FUSE CLIP	
S827	EVQ21405R	SW, DISC 4		L902	RLQZP3R3KT-Y	COIL					
S828	EVQ21405R	SW, DISC 3		T1	RLI2B153-M	AM IFT				FUSE PROTECTORS	
S829	EVQ21405R	SW, DISC 2		T301	RL08C004-T	BIAS OSC COIL	[M]				
S830	EVQ21405R	SW, DISC 1		T501	RTP1M3E011-X	POWER TRANSFORMER	[M] <u>/</u>	FP1	RSFMB15KT-L	FUSE	[M]
								FP2	RSFMB15KT-L	FUSE	[M]
		CONNECTORS				COMPONENT COMBIN	ATION				
CN1	RJU063W07T	7P CONNECTOR		Z1	RLA2Z002M-T	AM ANT. COIL				JACKS	
CN2	RJU063W07T	7P CONNECTOR		Z801	RCDHC-278N	SENSOR		JK1	RJH5301		[]
	RJU005A012	12P CONNECTOR SOC		2001		SENSON				JK, FM ANT. TERMINAL	[[N]]
	•								SJS208	JK, AM LOOP ANT TER.	
	RJU005A012	12P CONNECTOR SOC				CERAMIC FILTERS				JK, LINE-IN	[M]
	RJS1A5205	5P CONNECTOR	[M]			54.05			SJS9236	JK, AC INLET	<u>A</u>
	RJS10T6ZA	10P CONNECTOR	[M]	CF1	RLFFETWNA01L				RJR0054	JK, SP TERMINAL	
	RJU071H09M	9P B-B CONNECTOR			RLFFETWNA01L				RJJ37TK04-C	JK, HEAD PHONE	
	RJU071H09M	9P B-B CONNECTOR		CF3	RVFSFZ450HL3		[M]	JK802	RJJ36TK05-C	JK, MIC	[M]
	RJS1A6214-1	14P FFC CONNECTOR			·						
	RJS1A6223-1	23P FFC CONNECTOR			<u></u>	OSCILLATORS				WIRE	
	RJT063W07T	7P B-B CONNECTOR									
	RJT063W07T	7P B-B CONNECTOR			RSXZ456KM01			W501	REXX0137	8P POWER WIRE	[M]
	RJU077K20	20P B-B CONNECTOR		X2		FM RESONATOR				- · · · · · · · · · · · · · · · · · · ·	
	RJU077K20	20P B-B CONNECTOR	[M]		SVQ49U722T-S					PACKING MATERIALS	
	RJP4G18ZA	4P CONNECTOR				6 MHZ CRYSTAL OSC		 			
	RJP7G18ZA	7P CONNECTOR		X902	RSXD32K7S02	32KHZ CRYSTAL OSC	[M]	P1	RPF0100	MIRAMAT SHEET	[M]
CP308	RJT005W012	12P B-B CONNECTOR						P2	RPGX0251	GIFT BOX	[M]
CP309	RJT005W012	12P B-B CONNECTOR				DISPLAY TUBE		P3	RPNX0051	POLYFOAM	[M]
CP501	RJP8G18ZA	8P CONNECTOR						P4	SPSD152	ACCESSORY CASE	
CP801	RJT071H09A	9P B-B CONNECTOR		FL801	RSL0230-D	FL DISPLAY	[M]	P5	SPB1061	VINYL BAG	
00000	RJT071H09A	9P B-B CONNECTOR									
GF002								++			

Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
		ACCESSORIES									
				L		14 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -					
	EUR643805	REMOTE CONTROL	[M]								
A1-1	UR64EC1638-1	R. C. BATTERY COVER					1999 - A.				
A2	RQT3307-G	INSTRUCTION MANUAL	[M]						·		
A3	RSA0006	FM ANTENNA									
A4	RSA0010	AM LOOP ANT									
A5	RJA0019-2K	AC CORD	(SF)		1. S.						
A6	SJP5213-2	AC PLUG ADAPTOR									
		<loading motor=""></loading>			· · ·						
		INTEGRATED CIRCUIT			· · · · · · · · · · · · · · · · · · ·						
101	BA6418N										
	DAG410IN	IC, MOTOR DRIVER									· · · · ·
		01///70//50									
	······································	SWITCHES			· · · · · · · · · · · · · · · · · · ·				•	-	
						· ·					
		SW, LEAF									
		SW, MECHA									
L		SW, MECHA									
	RSH1A005	SW, LEAF									
S5	RSH1A032-U	SW, MECHA									
· · · · ·		CONNECTOR									
	DIOIACTIA										
CN1	RJS1A6714	14P CONNECTOR									
	<u>.</u>										
		<servo p.c.b.=""></servo>			· · · · · · · · · · · · · · · · · · ·						
		INTEGRATED CIRCUIT	5								
<u> </u>		IC, SERVO AMP.									
		IC, DIGITAL LSI									
IC703	AN8389SE1	IC, COIL/MOTOR DRIVE									
		TRANSISTOR			-						
Q701	2SB709S	TRANSISTOR									
		SWITCH									
S701	RSM0006-P	SW, RESET									
<u> </u>									·		
		CONNECTORS			· · · · · ·						
	······				······						
		16P FFC CONNECTOR								·	
CN702	RJS1A6723-1Q	23P FFC CONNECTOR							·		·
					*						
		OSCILLATOR									
					·····	·					
X701	RSXZ16M9M01T	CERAMIC OSC			· .						
				·					· .		<i></i>
								· ·		l	

Resistors & Capacitors

Notes : • Important safety notice:

Components identified by ${\rm I}{\rm L}$ mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors),etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list. [M] indicates in Remarks column parts that are supplied by **MESA**. Capacitor values are in microfarad (µF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F) Resistors values are in ohms, unless specified otherwise, 1k=1,000(OHM), 1M=1,000k(OHM)

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Ref No.	Part No.	Values 8	k Remarks	Ref No.	Part No.	Values d	& Remarks	Ref No.	Part No.	Values &	c Remarks	Ref No.	Part No.	Values &	k Remarks
	RESISTORS	-		R46	ERDS2TJ104T	100K	1/4W	R104	ERDS2TJ103T	10K	1/4W	R218	ERDS2TJ102T	1K	1/4W
				R47	ERDS2TJ562T	5.6K	1/4W	R106	ERDS2TJ272T	2.7K	1/4W	R219	ERDS2TJ223T	22K	1/4W
R1	ERDS2TJ104T	100K	1/4W	R48	ERDS2TJ391T	390	1/4W	R108	ERDS2TJ684T	680K	1/4W	R220	ERDS2TJ472T	4.7K	1/4W
R2	ERDS2TJ104T	100K	1/4W	R49	ERDS2TJ561T	560	1/4W	R111	ERDS2TJ183T	18K	1/4W	R221	ERDS2TJ223T	22K	1/4W
R3	ERDS2TJ221T	220	1/4W	R50	ERDS2TJ102T	1K	1/4W	R113	ERDS2TJ822T	8.2K	1/4W	R222	ERDS2TJ392T	3.9K	1/4W
R4	ERDS2TJ104T	100K	1/4W	R51	ERDS2TJ103T	10K	1/4W	R114	ERDS2TJ272T	2.7K	1/4W	R223	ERDS2TJ823T	82K	1/4W
R5	ERDS2TJ564T	560K	1/4W	R52	ERDS2TJ102T	1K	1/4W	R115	ERDS2TJ561T	560	1/4W	R224	ERDS2TJ153T	15K	1/4W
R6	ERDS2TJ391T	390	1/4W	R53	ERDS2TJ102T	1K	1/4W	R116	ERDS2TJ820T	82	1/4W	R225	ERDS2TJ392T	3.9K	1/4W
R7	ERDS2TJ272T	2.7K	1/4W	R54	ERDS2TJ102T	1K	1/4W	R117	ERDS2TJ181T	180	1/4W	R226	ERDS2TJ104T	100K	1/4W
R8	ERDS2TJ684T	680K	1/4W	R55	ERDS2TJ102T	1K	1/4W	R118	ERDS2TJ102T	1K	1/4W	R227	ERDS2TJ182T	1.8K	1/4W
R9	ERDS2TJ391T	390	1/4W	R56	ERDS2TJ102T	1K	1/4W	R119	ERDS2TJ223T	22K	1/4W	R228	ERDS2TJ472T	4.7K	1/4W
R10	ERDS2TJ391T	390	1/4W	R57	ERDS2TJ103T	10K	1/4W	R120	ERDS2TJ472T	4.7K	1/4W	R229	ERDS2TJ152T	1.5K	1/4W
R11	ERDS2TJ684T	680K	1/4W	R58	ERDS2TJ103T	10K	1/4W	R121	ERDS2TJ223T	22K	1/4W	R232	ERDS2TJ102T	1K	1/4W
R15	ERDS2TJ181T	180	1/4W	R60	ERDS2TJ563T	56K	1/4W	R122	ERDS2TJ392T	3.9K	1/4W	R234	ERDS2TJ563T	56K	1/4W
R16	ERDS2TJ822T	8.2K	1/4W	R61	ERDS2TJ472T	4.7K	1/4W	R123	ERDS2TJ823T	82K	1/4W	R235	ERDS2TJ103T	10K	1/4W
R17	ERDS2TJ331T	330	1/4W	R63	ERDS2TJ102T	1K	1/4W	R124	ERDS2TJ153T	15K	1/4W	R238	ERDS2TJ222T	2.2K	1/4W
R18	ERDS2TJ471T	470	1/4W	R64	ERDS2TJ820T	82	1/4W	R125	ERDS2TJ392T	3.9K	1/4W	R243	ERDS2TJ223T	22K	1/4W
R19	ERDS2TJ474T	470K	1/4W	R65	ERDS2TJ103T	10K	1/4W	R126	ERDS2TJ104T	100K	1/4W	R244	ERDS2TJ330T	33	1/4W
R20	ERDS2TJ562T	5.6K	1/4W	R76	ERDS2TJ331T	330	1/4W	R127	ERDS2TJ182T	1.8K	1/4W	R245	ERDS2TJ104T	100K	1/4W
R21	ERDS2TJ822T	8.2K	1/4W	R77	ERDS2TJ474T	470K	1/4W	R128	ERDS2TJ472T	4.7K	1/4W	R291	ERDS2TJ822T	8.2K	1/4W
R22	ERDS2TJ473T	47K	1/4W	R80	ERDS2TJ102T	1K	1/4W	R129	ERDS2TJ152T	1.5K	1/4W	R299	ERDS2TJ472T	4.7K	1/4W
R23	ERDS2TJ332T	3.3K	1/4W	R81	ERDS2TJ332T	3.3K	1/4W	R132	ERDS2TJ102T	1K	1/4W	R303	ERDS2TJ472T	4.7K	1/4W
R24	ERDS2TJ472T	4.7K	1/4W	R82	ERDS2TJ103T	10K	1/4W	R134	ERDS2TJ563T	56K	1/4W	R304	ERDS2TJ103T	10K	1/4W
R25	ERDS2TJ271T	270	1/4W	R83	ERDS2TJ562T	5.6K	1/4W	R135	ERDS2TJ103T	10K	1/4W	R305	ERDS2TJ103T	10K	1/4W
R26	ERDS2TJ471T	470	1/4W	R84	ERDS2TJ104T	100K	1/4W	R138	ERDS2TJ222T	2.2K	1/4W	R306	ERDS2TJ393T	39K	1/4W
R27	ERDS2TJ272T	2.7K	1/4W	R85	ERDS2TJ104T	100K	1/4W	R143	ERDS2TJ223T	22K	1/4W	R307	ERDS2TJ122T	1.2K	1/4W
R28	ERDS2TJ473T	47K	1/4W	R86	ERDS2TJ104T	100K	1/4W	R144	ERDS2TJ330T	33	1/4W	R308	ERDS2TJ222T	2.2K	1/4W
R29	ERDS2TJ680T	68	1/4W	R87	ERDS2TJ104T	100K	1/4W	R145	ERDS2TJ104T	100K	1/4W	R309	ERDS2TJ222T	2.2K	1/4W
R32	ERDS2TJ272T	2.7K	1/4W	R88	ERDS2TJ153T	15K	1/4W	R191	ERDS2TJ822T	8.2K	1/4W	R310	ERDS2TJ102T	1K	1/4W
R33	ERDS2TJ272T	2.7K	1/4W	R89	ERDS2TJ103T	10K	1/4W	R199	ERDS2TJ472T	4.7K	1/4W	R311	ERDS2TJ332T	3.3K	1/4W
R34	ERDS2TJ272T		1/4W	R90	ERDS2TJ153T	15K	1/4W	R201	ERDS2TJ473T	47K	1/4W	R312	ERDS2TJ152T	1.5K	1/4W
R35	ERDS2TJ272T		1/4W	R91	ERDS2TJ333T	33K	1/4W	R202	ERDS2TJ103T	10K	1/4W	R313	ERDS2TJ334T	330K	1/4W
R36	ERDS2TJ474T	470K		R92	ERDS2TJ103T	10K	1/4W	R203	ERDS2TJ104T	100K	1/4W	R314	ERDS2TJ334T	330K	1/4W
R37	ERDS2TJ474T	470K		R93	ERDS2TJ333T	33K	1/4W	R204	ERDS2TJ103T	10K	1/4W	R315	ERDS2TJ223T	22K	1/4W
R38	ERDS2TJ272T	2.7K	1/4W	R94	ERDS2TJ153T	15K	1/4W	R206	ERDS2TJ272T	2.7K	1/4W	R316	ERDS2TJ103T	10K	1/4W
R39	ERDS2TJ272T		1/4W	R95	ERDS2TJ563T	56K	1/4W	R208	ERDS2TJ684T	680K	1/4W	R317	ERDS2TJ103T	10K	1/4W
R40	ERDS2TJ391T	390	1/4W	R96	ERDS2TJ563T	56K	1/4W	R211	ERDS2TJ183T	18K	1/4W	R318	ERDS2TJ221T	220	1/4W
R41	ERDS2TJ102T	1K	1/4W	R97	ERDS2TJ103T	10K	1/4W	R213	ERDS2TJ822T	8.2K	1/4W	R319	ERDS2TJ334T	330K	1/4W
R42	ERDS2TJ102T	1K	1/4W	R98	ERDS2TJ274T		1/4W	R214	ERDS2TJ272T	2.7K	1/4W	R320	ERDS2TJ562T	5.6K	1/4W
R43	ERDS2TJ102T	1K	1/4W	R101	ERDS2TJ473T	47K	1/4W	R215	ERDS2TJ561T	560	1/4W	R321	ERDS2TJ103T	10K	1/4W
R44	ERDS2TJ102T	1K	1/4W	R102	ERDS2TJ103T	10K	1/4W	1	ERDS2TJ820T	82	1/4W	R322	ERDS2TJ225T	2.2M	1/4W
								R217		180	1/4W	R323	ERDS2TJ103T	10K	1/4W
R45	ERDS2TJ102T	1K	1/4W	R103	ERDS2TJ104T	100K	1/4W	J[H217	ERDS21J1811	180	1/477	1			1/44

Ref No.	Part No.	Values a	& Remarks	Ref No.	Part No.	Values	& Remarks	Ref No.	Part No.	Values	& Remarks	Ref No	Part No.	Values a	& Remarks
R324	ERDS2TJ334T	330K	1/4W	R375	ERDS2TJ103T	10K	1/4W	R526	ERDS1FVJ560T	56	1/2W	R832	ERDS2TJ102T	1K	1/4W
R325	ERDS2TJ334T	330K	1/4W	R376	ERDS2TJ222T	2.2K	1/4W	R527	ERDS2TJ152T	.56 1.5K	1/4W	R833	ERDS2TJ122T	1.2K	1/4W
R327	ERDS2TJ153T	15K	1/4W	R377	ERDS2TJ101T	100	1/4W	R528	ERDS2TJ152T	150	1/4W	R834	ERDS2TJ182T	1.2K	1/4W
R328	ERD25FVJ4R7T	4.7	1/4W	R378	ERDS2TJ222T	2.2K	1/4W	R529	ERDS1FVJ3R9T	3.9	1/2W	R835	ERDS2TJ222T	2.2K	1/4W
R329	ERDS2TJ472T	4.7K	1/4W	R379	ERDS2TJ222T	2.2K	1/4W	R530	ERDS2TJ331T	330	1/4W	R836	ERDS2TJ272T	2.7K	1/4W
R330	ERDS2TJ472T	4.7K	1/4W	R380	ERDS2TJ222T	2.2K	1/4W	R531	ERDS2TJ151T	150	1/4W	R837	ERDS2TJ472T	4.7K	1/4W
R331	ERDS2TJ102T	1K	1/4W	R381	ERDS2TJ1R0T	1	1/4W	R532	ERDS2TJ682T	6.8K	1/4W	R841	ERDS2TJ102T	1K	1/4W
	ERDS2TJ272T	2.7K	1/4W	R382	ERD25FVJ180T	18	1/4W	R533	ERDS2TJ472T	4.7K	1/4W	R842	ERDS2TJ102T	1K	1/4W
R333	ERDS2TJ332T	3.3K	1/4W	R383	ERDS2TJ331T	330	1/4W	R536	ERDS1FVJ1R0T	1	1/2W/	R843	ERDS2TJ122T	1.2K	1/4W
R334	ERDS2TJ103T	10K	1/4W	R384	ERDS1FVJ100T	10	1/2/1/	R537	ERDS2TJ151T	150	1/4W	R844	ERDS2TJ182T	1.8K	1/4W
R335	ERDS2TJ472T	4.7K	1/4W	R385	ERDS2TJ683T	68K	1/4W	R539	ERDS1FVJ390T	39	1/2W	R845	ERDS2TJ222T	2.2K	1/4W
R336	ERDS2TJ103T	10K	1/4W	R386	ERDS2TJ393T	39K	1/4W	R544	ERDS2TJ151T	150	1/4W	R846	ERDS2TJ272T	2.7K	1/4W
R337	ERDS2TJ472T	4.7K	1/4W	R387	ERDS2TJ272T	2.7K	1/4W	R550	ERX1ANJP5R6	5.6	1W 🛕		ERDS2TJ563T	56K	1/4W
R338	ERDS2TJ102T	1K	1/4W	R388	ERDS2TJ102T	1K	1/4W	R601	ERDS2TJ153T	15K	1/4W	R902	ERDS2TJ223T	22K	1/4W
R339	ERDS2TJ102T	1K	1/4W	R389	ERDS2TJ103T	10K	1/4W	R602	ERDS2TJ273T	27K	1/4W	R903	ERDS2TJ334T	330K	
R340	ERDS2TJ472T	4.7K	1/4W	R390	ERDS2TJ1R2T	1.2	1/4W	R603	ERDS2TJ273T	27K	1/4W	R905	ERDS2TJ472T	4.7K	1/4W
R341	ERDS2TJ101T	100	1/4W	R391	ERDS2TJ1R2T	1.2	1/4W	R605	ERDS2TJ2R7T	2.7	1/4W	R907	ERDS2TJ681T	680	1/4W
R343	ERDS2TJ151T	150	1/4W	R392	ERDS2TJ103T	10K	1/4W	R606	ERDS2TJ221T	220	1/4W	R908	ERDS2TJ472T	4.7K	1/4W
R344	ERDS2TJ105T	1M	1/4W	R393	ERDS2TJ122T	1.2K	1/4W	R607	ERDS2TJ103T	10K	1/4W	R909	ERDS2TJ106T	10M	1/4W
R345	ERDS2TJ474T	470K	1/4W	R394	ERDS2TJ222T	2.2K	1/4W	R608	ERDS2TJ153T	15K	1/4W	R910	ERDS2TJ102T	1K	1/4W
R346	ERDS2TJ473T	47K	1/4W	R395	ERDS2TJ152T	1.5K	1/4W	R609	ERDS2TJ103T	10K	1/4W	R911	ERDS2TJ102T	1K	1/4W
R348	ERDS2TJ105T	1M	1/4W	R397	ERDS2TJ332T	3.3K	1/4W	R610	ERDS2TJ103T	10K	1/4W	R912	ERDS2TJ101T	100	1/4W
R349	ERDS2TJ223T	22K	1/4W	R398	ERDS2TJ223T	22K	1/4W	R611	ERDS2TJ102T	1K	1/4W	R913	ERDS2TJ101T	100	1/4W
R350	ERDS2TJ334T	330K	1/4W	R399	ERDS2TJ220T	22	1/4W	R612	ERDS2TJ473T	47K	1/4W	R914	ERDS2TJ103T	10K	1/4W
R351	ERDS2TJ223T	22K	1/4W	R501	ERDS2TJ153T	15K	1/4W	R613	ERDS2TJ473T	47K	1/4W	R916	ERDS2TJ473T	47K	1/4W
R352	ERDS2TJ331T	330	1/4W	R502	ERDS2TJ153T	15K	1/4W	R614	ERDS2TJ103T	10K	1/4W	R917	ERDS2TJ102T	1K	1/4W
R353	ERDS2TJ103T	10K	1/4W	R503	ERDS2TJ563T	56K	1/4W	R615	ERDS2TJ153T	15K	1/4W	R918	ERDS2TJ102T	1K	1/4W
R354	ERDS2TJ151T	150	1/4W	R504	ERDS2TJ563T	56K	1/4W	R616	ERDS2TJ103T	10K	1/4W	R919	ERDS2TJ102T	1K	1/4W
R355	ERDS1FVJ100T	10	1/2W	R505	ERDS2TJ682T	6.8K	1/4W	R617	ERDS2TJ103T	10K	1/4W	R920	ERDS2TJ102T	1K	1/4W
R356	ERDS1FVJ100T	10	1/2W	R506	ERDS2TJ682T	6.8K	1/4W	R618	ERDS2TJ102T	1K	1/4W	R921	ERDS2TJ102T	1K	1/4W
R357	ERDS1FVJ100T	10	1/2W	R507	ERDS2TJ683T	68K	1/4W	R619	ERDS2TJ473T	47K	1/4W	R922	ERDS2TJ102T	1K	1/4W
R358	ERDS2TJ560T	56	1/4W	R508	ERDS2TJ683T	68K	1/4W	R620	ERDS2TJ105T	1M	1/4W	R923	ERDS2TJ102T	1K	1/4W
R359	ERDS2TJ821T	820	1/4W	R509	ERDS1FVJ100T	10	1/2W	R623	ERDS2TJ393T	39K	1/4W	R924	ERDS2TJ102T	1K	1/4W
R360	ERD25FVJ180T	18	1/4W	R510	ERDS1FVJ100T	10	1/2W	R811	ERDS2TJ102T	1K	1/4W	R925	ERDS2TJ103T	10K	1/4W
R361	ERD25FVJ180T	18	1/4W	R511	ERDS2TJ823T	82K	1/4W	R812	ERDS2TJ102T	1K	1/4W	R926	ERDS2TJ103T	10K	1/4W
R362	ERD25FVJ180T	18	1/4W	R512	ERDS2TJ124T	120K	1/4W	R813	ERDS2TJ122T	1.2K	1/4W	R927	ERDS2TJ104T	100K	1/4W
R363	ERDS2TJ333T	33K	1/4W	R513	ERDS2TJ334T	330K	1/4W	R814	ERDS2TJ182T	1.8K	1/4W	R928	ERDS2TJ561T	560	1/4W
R364	ERDS2TJ183T	18K	1/4W	R514	ERDS2TJ563T	56K	1/4W	R815	ERDS2TJ222T	2.2K	1/4W	R929	ERDS2TJ104T	100K	1/4W
R365	ERDS2TJ103T	10K	1/4W	R515	ERDS2TJ103T	10K	1/4W	R821	ERDS2TJ102T	1K	1/4W	R930	ERDS2TJ101T	100	1/4W
R366	ERDS2TJ102T	1K	1/4W	R516	ERD25FVJ470T	47	1/4W	R822	ERDS2TJ102T	1K	1/4W	R931	ERDS2TJ101T	100	1/4W
R367	ERDS2TJ183T	18K	1/4W	R517	ERDS2TJ563T	56K	1/4W	R823	ERDS2TJ122T	1.2K	1/4W	R932	ERDS2TJ101T	100	1/4W
R368	ERDS2TJ472T	4.7K	1/4W	R518	ERDS1FVJ390T	39	1/2W	R824	ERDS2TJ182T	1.8K	1/4W	R933	ERDS2TJ101T	100	1/4W
R369	ERDS1FVJ2R2T	2.2	1/2W	R519	ERDS1FVJ390T	39	1/2W	R825	ERDS2TJ222T	2.2K	1/4W	R934	ERDS2TJ103T	10K	1/4W
R370	ERDS1FVJ331T	330	1/2W	R520	ERDS1FVJ3R9T	3.9	1/2W	R826	ERDS2TJ272T	2.7K	1/4W	R935	ERDS2TJ103T	10K	1/4W
R371	ERDS2TJ181T	180	1/4W	R521	ERDS1FVJ152T	1.5K	1/2WA	R827	ERDS2TJ472T	4.7K	1/4W	R936	ERDS2TJ103T	10K	1/4W
R372	ERDS2TJ182T	1.8K	1/4W	R522	ERDS1FVJ1R0T	1	1/2WA	R828	ERDS2TJ682T	6.8K	1/4W	R937	ERDS2TJ103T	10K	1/4W
R373	ERDS2TJ153T	15K	1/4W	R524	ERDS1FVJ560T	56	1/2W	R829	ERDS2TJ272T	2.7K	1/4W	R938	ERDS2TJ223T	22K	1/4W
R374	ERDS2TJ102T	1K	1/4W	R525	ERDS1FVJ560T	56	1/2W	R831	ERDS2TJ102T	1K	1/4W	R939	ERDS2TJ223T	22K	1/4W

Ref No	Part No.	Values &	& Remarks	Ref No.	Part No.	Values &	& Remarks	Ref No.	Part No.	Values &	z Remarks	Ref No.	Part No.	Values &	k Remarks
R940	ERDS2TJ103T	10K	1/4W		CAPACITORS			C51	ECBT1C103MS5	0.01	16V	C116	ECFR1C223MR	0.022	16V
R941	ERDS2TJ103T	10K	1/4W					C52	ECEA25M4R7RB	4.7	25V	C117	ECEA0JU101B	100	6.3V
R942	ERDS2TJ103T	10K	1/4W	C1	ECBT1H5R6KC5	5.6P	50V	C53	ECBT1C103MS5	0.01	16V	C119	ECBT1C332MR5	3300P	16V
R944	ERDS2TJ472T	4.7K	1/4W	C2	RCBS1H102KBY	1000P	50V	C54	ECBT1H180JC5	18P	50V	C120	ECBT1H221KB5	220P	50V
R945	ERDS2TJ472T	4.7K	1/4W	СЗ	ECBT1H2R2KC5	2.2P	50V	C55	ECBT1H150JC5	15P	50V	C121	ECBT1H102KB5	1000P	50V
R946	ERDS2TJ472T	4.7K	1/4W	C4	ECBT1H181KB5	180P	50V	C56	ECBT1H102KB5	1000P	50V	C122	ECEA1HU4R7B	4.7	50V
R947	ERDS2TJ472T	4.7K	1/4W	C5	ECBT1H5R6KC5	5.6P	50V	C57	ECEA0JU101B	100	6.3V	C123	ECBT1H821KB5	820P	50V
R948	ERDS2TJ472T	4.7K	1/4W	C6	ECBT1H3R3KC5	3.3P	50V	C59	ECBT1H330J5	33P	50V	C124	ECBT1H102KB5	1000P	50V
R949	ERDS2TJ104T	100K	1/4W	C7	ECBT1H4R7KC5	4.7P	50V	C60	ECBT1H102KB5	1000P	50V	C125	ECBT1C472MR5	4700P	16V
R950	ERDS2TJ104T	100K	1/4W	C8	ECBT1H3R3KC5	3.3P	50V	C61	ECBT1H331KB5	330P	50V	C127	ECBT1H270J5	27P	50V
R951	ERDS2TJ104T	100K	1/4W	C9	ECBT1H2R2KC5	2.2P	50V	C62	ECEA1CU220B	22	16V	C128	ECBT1H101KB5	100P	50V
R955	ERDS2TJ221T	220	1/4W	C10	ECBT1H180JC5	18P	50V	C63	ECBT1C103MS5	0.01	16V	C130	ECEA1HU220B	22	50V
R956	ERDS2TJ822T	8.2K	1/4W	C11	RCBS1H102KBY	1000P	50V	C64	ECBT1C103MS5	0.01	16V	C131	ECEA1HUR68	0.68	50V
R957	ERDS2TJ334T	330K	1/4W	C15	ECBT1C103MS5	0.01	16V	C65	ECBT1H102KB5	1000P	50V	C132	ECBT1H101KB5	100P	50V
R958	ERDS2TJ560T	56	1/4W	C16	ECEA1CU220B	22	16V	C66	ECBT1H102KB5	1000P	50V	C133	ECEA1HUR33B	0.33	50V
R963	ERDS2TJ474T	470K	1/4W	C17	ECBT1C103MS5	0.01	16V	C67	ECBT1H102KB5	1000P	50V	C191	ECBT0J153MS5	0.015	6.3V
R964	ERDS2TJ474T	470K	1/4W	C18	ECBT1H102KB5	1000P	50V	C68	ECBT1H102KB5	1000P	50V	C202	ECBT1H101KB5	100P	50V
R965	ERDS2TJ471T	470	1/4W	C19	ECBT1C103MS5	0.01	16V	C71	ECBT1H331KB5	330P	50V	C203	ECBT1H102KB5	1000P	50V
R966	ERDS2TJ473T	47K	1/4W	C20	ECEA1HKA3R3B	3.3	50V	C72	ECBT1C103MS5	0.01	16V	C204	ECEA1EU100B		25V
R967	ERDS2TJ473T	47K	1/4W	C21	ECEA0JU331B	330	6.3V	C73	ECEA1HKA010B		50V	C205	ECEA1HU100B	10	50V
R968	ERDS2TJ102T	1K	1/4W	C22	ECBT1H473ZF5		50V	C74	ECBT1C103MS5		16V	C206		0.1	50V
R969	ERDS2TJ102T	1K -	1/4W	C23	ECEA1CU220B	22	16V	C75	ECBT1H180JC5	18P	50V	C207	ECFR1C563KR	0.056	16V
R972	ERDS2TJ102T	1K	1/4W	C24	ECBT1H473ZF5		50V	C76	ECBT1C103MS5		16V	C208	ECBT1C103MS5		16V
R974	ERDS2TJ102T	1K	1/4W	C25	ECEA1HKA4R7B		50V	C77	ECQP2A222JZT	2200P		C209	ECEA1EU4R7B	4.7	25V
R975	ERDS2TJ102T	1K	1/4W	C26	ECBT1C822MS5			C78	ECBT1H2R2KC5		50V	C211	ECBT1H331KB5		50V
R976	ERDS2TJ102T	1K	1/4W	C27	ECQP1821JZT	820P	100V[M]	C79	ECBT1H2R2KC5		50V	C212	ECBT1H331KB5		50V
R977	ERDS2TJ102T	1K	1/4W	C28	ECEA1HKA010B	1	50V	C80	ECBT1C103MS5		16V	C213	ECEA0JU101B		6.3V
R978	ERDS2TJ123T	12K	1/4W	C29	ECFR1C103KR	0.01	16V	C81		22P	50V	C214	ECFR1C183KR	0.018	
R979	ERDS2TJ223T	22K	1/4W	C30	ECFR1C103KR	0.01	16V	C82		15P	50V	C215	ECEA1HU010B		50V
	ERDS2TJ123T	12K	1/4W	C31	ECBT1H8R2KC5		50V		ECQP2A222JZT				ECFR1C223MR		
R981	ERDS2TJ223T	22K	1/4W	C32	ECBT1H470J5	47P	50V	C84	ECBT1C103MS5		16V	C217	ECEA0JU101B	· · · ·	6.3V
	ERDS2TJ820T	82	1/4W	C33	ECEA1HKA2R2B		50V	C85	ECBT1C103MS5		16V	C219		3300P	
	ERDS2TJ820T	82	1/4W	C34	ECEA1HKA010B		50V	C86	ECBT1H220JC5		50V	C220		220P 1000P	
R984 R985	ERDS2TJ820T	82 82	1/4W 1/4W	C35 C36	ECEA1HKA010B ECEA1HKA010B		50V 50V	C87 C88	ECBT1H100JC5		50V	C221 C222	ECBT1H102KB5 ECEA1HU4R7B		50V
	ERDS2TJ820T ERDS2TJ820T	82	1/4W	C37	ECEA1HKA010B		50V	C102	ECBT1C103MS5 ECBT1H101KB5		16V			4.7 820P	
	ERDS2TJ820T	82	1/4W	C38	ECBT1C103MS5		16V	C102	ECBT1H101KB5			C223	ECBT1H021KB5	020P	
	ERDS2TJ820T	82	1/4W	C39	ECBT1C103MS5		16V	C104	ECEA1EU100B	10001	25V	C225	ECBT1C472MR5		
R989	ERDS2TJ820T	82	1/4W	C40	ECBT1H561KB5		50V	C105	ECEA1HU100B	10	50V	C227	ECBT1H270J5		50V
R990	ERDS2TJ334T	330K		C41	ECBT1H561KB5		50V	C106	ECBT1H104ZF5		50V	C228	ECBT1H101KB5	100P	
R991	ERDS2TJ272T		1/4W	C42	ECBT1C682MR5			C107			16V	C230	ECEA1HU220B		50V
R993	ERDS2TJ101T	100	1/4W	C43	ECBT1C682MR5			C108	ECBT1C103MS5		16V	C231	ECEA1HUR68		50V
R994	ERDS2TJ394T	390K	1/4W	C44	ECEA1CU101B	100	16V	C109		4.7	25V	C232	ECBT1H101KB5		50V
R995	ERDS2TJ821T	820	1/4W	C45	ECEA1HKA010B		50V	C111	ECBT1H331KB5		50V	C233	ECEA1HUR33B		50V
R996	ERDS2TJ821T	820	1/4W	C46	ECEA1HKA010B		50V 50V	C112			50V	C291	ECBT0J153MS5	0.015	
R997	ERDS2TJ821T	820	1/4W	C40	ECBT1H473ZF5			C112	ECEA0JU101B		6.3V	C301	ECBT1C103MS5		16V
R998	ERDS2TJ821T	820	1/4W	C48	ECBT1H8R2KC5		50V 50V	C114		0.018		C302	ECBT1C103MS5		16V
R999	ERDS2TJ821T	820	1/4W	C48	ECBT1C103MS5		16V		ECEA1HU010B	1	50V		ECBT1C103MS5		16V
11999	LND32130211	020	1/***	0 4 9	2001101000005	0.01	101	0115	LOEATHOUTUB	1	301	0303	LODI 10 1031/165	0.01	101

Ref No.	Part No.	Values é	& Remarks	Ref No.	Part No.	Values d	& Remarks	Ref No.	Part No.	Values &	k Remarks	Ref No.	Part No.	Values &	k Remarks
C304	ECBT1C103MS5	0.01	16V	C353	ECEA1HU4R7B	4.7	50V	C528	ECEA1CU331B	330	16V	C944	ECBT1H102KB5	1000P	50V
C305	ECBT1H101KB5	100P	50V	C354	ECEA1HU330B	33	50V	C529	ECBT1E103ZF5	0.01	25V	C945	ECBT1H102KB5	1000P	50V
C306	ECBT1H101KB5	100P	50V	C355	ECKR1H103ZF5	0.01	50V	C536	ECEA1CU101B	100	16V	C946	ECBT1H101KB5	100P	50V
C307	ECBT1H101KB5	100P	50V	C356	ECKR1H103ZF5	0.01	50V	C537	ECBT1E103ZF5	0.01	25V	C947	ECBT1H101KB5	100P	50V
C308	ECEA1CU100B	10	16V	C357	ECEA1VU101B	100	10V	C538	ECEA1CKA470B	47	16V	C949	ECEA1AKA470B	47	10V
C309	ECEA1AU471B	470	10V	C358	ECKR1H103ZF5	0.01	50V	C539	ECBT1E103ZF5	0.01	25V	C950	ECBT1H331KB5	330P	50V
C310	ECEA1HUR22B	0.22	50V	C359	ECEA1AU470B	47	10V	C540	ECEA0JU101B	100	6.3V	C951	ECBT1H331KB5	330P	50V
C311	ECEA1CKA100B	10	16V	C362	ECEA1HU010B	1	50V	C602	ECEA1CKA101B	100	16V	C952	ECEA1CU331B	330	16V
C312	ECEA1CKA220B	22	16V	C363	ECKR1H103ZF5	0.01	50V	C604	ECBT1H104ZF5	0.1	50V	C953	ECBT1C103MS5	0.01	16V
C313	ECEA1CKA100B	10	16V	C370	ECEA1EU101B	100	25V	C850	ECBT1H102KB5	1000P	50V	C960	ECBT1C103MS5	0.01	16V
C314	ECBT1H221KB5	220P	50V	C373	ECFR1C104KR	0.1	16V	C851	ECBT1H102KB5	1000P	50V	C961	ECEA1HKA010B	1	50V
C315	ECBT1H221KB5	220P	50V	C374	ECBT1H104ZF5	0.1	50V	C901	ECBT1H561KB5	560P	50V	C997	ECBT1C103MS5	0.01	16V
C316	ECEA1CU100B	10	16V	C375	ECFR1C103KR	0.01	16V	C902	ECBT1H561KB5	560P	50V	C998	ECBT1C103MS5	0.01	16V
C318	ECEA1HU220B	22	50V	C376	ECBT1E103ZF5	0.01	25V	C904	ECBT1H102KB5	1000P	50V	C999	ECBT1C103MS5	0.01	16V
C319	ECEA1AU220B	22	10V	C377	ECBT1H104ZF5	0.1	50V	C905	ECBT1C103MS5	0.01	16V				
C320	ECFR1C393KR	0.039	16V	C378	ECBT1H104ZF5	0.1	50V	C906	ECEA1HKA100B	10	50V		<servo p.c.b.=""></servo>		
C321	ECEA1CU330B	33	16V	C379	ECBT1H104ZF5	0.1	50V	C907	ECBT1C103MS5	0.01	16V		RESISTORS		
C322	ECEA1CU100B	10	16V	C381	ECEA1CU470B	47	16V	C909	ECEA1HKA100B	10	50V	R701	ERJ6GEYJ4R7V	4.7	1/10W
C323	ECBT1C103MS5	0.01	16V	C382	ECEA1HU100B	10	50V	C910	ECBT1H680J5	68P	50V	R703	ERJ6GEYJ823	82K	1/10W
C324	ECEA1CU101B	100	16V	C383	ECBT1E103ZF5	0.01	25V	C911	ECBT1H680J5	68P	50V	R704	ERJ6GEYJ102V	1K	1/10W
C325	ECQV1H473JZ3	0.047	50V	C396	ECBT1H104ZF5	0.1	50V	C912	ECBT1H560J5	56P	50V	R705	ERJ6GEYJ103V	10K	1/10W
C326	ECBT1H102KB5	1000P	50V	C397	ECEA0JU221B	220	6.3V	C913	ECBT1H560J5	56P	50V	R706	ERJ6GEYJ102V	1K	1/10W
C327	ECBT1H102KB5	1000P	50V	C398	ECBT1H104ZF5	0.1	50V	C914	ECBT1H102KB5	1000P	50V	R707	ERJ6GEYJ474V	470K	1/10W
C328	ECBT1C103MS5	0.01	16V	C399	ECEA1EU101B	100	25V	C915	ECBT1H102KB5	1000P	50V	R708	ERJ6GEYJ154V	150K	1/10W
C329	ECBT1C103MS5	0.01	16V	C501	ECEA1HKA3R3B	3.3	50V	C916	ECBT1H220J5	22P	50V	R709	ERJ6GEYJ683V	68K	1/10W
C330	ECBT1C103MS5	0.01	16V	C502	ECEA1HKA3R3B	3.3	50V	C917	ECBT1H180J5	18P	50V	R711	ERJ6GEYJ154V	150K	1/10W
C331	ECQP2A622JZT	6200P	100V[M]	C503	ECBT1H102KB5	1000P	50V	C918	ECBT1H101KB5	100P	50V	R712	ERJ6GEYJ221V	220	1/10W
C332	ECQV1H474JZ3	0.47	50V	C504	ECBT1H102KB5	1000P	50V	C919	ECEA1HKA010B		50V	R717	ERJ6GEYJ102V	1K	1/10W
		1	50V	C505		330P		C920	ECEA1HKA010B		50V	R718	ERJ6GEYJ102V	1K	1/10W
C334	ECEA1HU010B	1	50V	C506	ECBT1H331KB5	330P	50V	C921	ECBT1H101KB5			R719	ERJ6GEYJ102V	1K	1/10W
C335	ECQP1102JZT	1000P	100V	C507	ECBT1H150J5	15P	50V	C922	ECBT1H561KB5		50V	R720	ERJ6GEYJ102V	1K	1/10W
C336	ECBT1C103MS5		16V	C508	ECBT1H150J5	15P	50V	C923		560P	50V	R721	ERJ6GEYJ101V	100	1/10W
C337	ECBT1H102KB5			C509	ECEA1HKA010B		50V	C924	ECBT1H561KB5		50V	R722	ERJ6GEYJ563V	56K	1/10W
C338	ECBT1C103MS5		16V	C510	ECEA1HKA010B		50V	C925		560P	50V	R723	ERJ6GEYJ182V	1.8K	1/10W
	ECEA1CKA100B		16V	C511	ECEA1HU330B	33	50V	C926	· · · · · · · · · · · · · · · · · · ·	560P	50V	R724	ERJ6GEYJ333V	33K	1/10W
C340		1	50V	C512	ECEA2AU100B	10	100V	C927	ECBT1H561KB5		50V	R725	ERJ6GEYJ472V	4.7K	1/10W
C341	ECBT1C103MS5		16V	C513	ECKR1H223ZF5	<u> </u>		C928	ECBT1H561KB5		50V	R726	ERJ6GEYJ473V	47K	1/10W
		1	50V	C514	ECKR1H223ZF5			C929 C930	ECBT1C103MS5 ECEA1AKA101B		16V 10V	R727			1/10W
C343		47	16V	C515 C516	ECKR1H103ZF5		50V 50V	C930	ECBT1H102KB5	100 1000P		R728 R731	ERJ6GEYJ103V	10K 8.2K	1/10W
C344	ECKR1H103ZF5		50V				25V	C932	ECEA0JU102B	1000			ERJ6GEYJ822V	8.2K	1/10W
C345	ECEA1HU010B	1	50V 50V	C517 C518	ECEA1EU222B	2200	25V 50V	C932	ECEA0JU102B		6.3V	R734 R735	ERJ6GEYJ101V	100 100	1/10W 1/10W
C346	ECKR1H103ZF5				ECKR1H103ZF5		50V	C933	ECEA030102B	1000 1000P		R735	ERJ6GEYJ101V ERJ6GEYJ101V		
	ECEA1CU330B	33	16V	C519 C520	ECKR1H103ZF5		50V	C934	ECEA1HKA010B		50V	R736 R738	ERJ6GEYJ101V	100 22K	1/10W 1/10W
C348	ECKR1H103ZF5		50V	C520	ECKR1H103ZF5		50V	C936	ECEA1AKA101B		10V	R741	ERJ6GEYJ223V		1/10W
C349	ECEA1CU330B	33	16V		ECKR1H103ZF5		10V	C940 C941	ECEA1HKA010B		50V	R741	·····	5.6K	1/10W
C350	ECEA1HU4R7B	4.7	50V	C522	ECEA1VU332E	3300	10V A	C941	ECBT1C103MS5		16V	R742 R743	ERJ6GEYJ562V		1/10W
C351	ECEA1CU221B	220	16V	C523	ECEA1VU222E	2200	(e)	C942 C943	ECEA1HKA010B		50V			5.6K	
C352	ECKR1H103ZF5	0.01	50V	C524	ECEA0JU101B	100	6.3V	0943	LOEA INAUIUB	L 1	30.4	R744	ERJ6GEYJ103V	10K	1/10W

Ref No.	Part No.	Values	& Remarks	Ref No.	Part No.	Values	& Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks
R745	ERJ6GEYJ155V	1.5M	1/10W	C744	ECUV1E822KBN	8200P	25V						
R748	ERJ6GEYJ182V	1.8K	1/10W	C745	ECUV1C473MBN	0.047	16V						
R749	ERJ6GEYJ682V	6.8K	1/10W	C747	ECUV1H222KBN	2200P	9 50V						
R750	ERJ6GEYJ473V	47K	1/10W	C748	ECUV1H471KBM	470P	50V						
R751	ERJ6GEYJ473V	47K	1/10W	C749	ECUZNE104MBN	0.1	25V						
R752	ERJ8GEYJ220V	22	1/8W	C751	ECUZNE104MBN	0.1	25V						
R770	ERJ6GEYJ155V	1.5M	1/10W	C752	ECUV1H152KBN	1500P	9 50V		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
R771	ERJ6GEYJ155V	1.5M	1/10W	C753	ECUV1H471KBM	470P	50V					.,,	
R772	ERJ6GEYJ273V	27K	1/10W	C754	ECUV1H471KBN	470P	50V						
	CAPACITORS				CHIP JUMPERS				· · · · · · · · · · · · · · · · · · ·				
C701	ECEA0JKA330I	33	6.3V	RJ701	ERJ8GEY0R00A	0	1/8W						
C702	ECUZNE104MBN	0.1	25V	<u> </u>	ERJ8GEY0R00A		1/8W						
C703	ECEA0JKA101I	100	6.3V	RJ703	ERJ8GEY0R00A	0	1/8W						
C704	ECUZNE104MBN	0.1	25V		ERJ8GEY0R00A		1/8W						
C705	ECUZNE104MBN		25V		ERJ8GEY0R00A		1/8W						
C706	ECUV1H272KBN				ERJ8GEY0R00A		1/8W						
C707	ECUV1E273KBN				ERJ8GEY0R00A		1/8W						
C708	ECUV1H472KBN				ERJ8GEY0R00A		1/8W			· · · · · · · · · · · · · · · · · · ·			
C709	ECUV1C473KBN				ERJ8GEY0R00A		1/8W						
C710	ECUV1H182KBN				ERJ8GEY0R00A		1/8W						
C711	ECUZNE104MBN		25V		ERJ8GEY0R00A		1/8W						
C712	ECUZNE104MBN		25V		ERJ8GEY0R00A		1/8W			<u> </u>		·····	
C713	ECUV1C104MBM	0.1	16V		ERJ8GEY0R00A		1/8W						
C714	ECEA0JKA101I	100	6.3V		ERJ8GEY0R00A		1/8W						
C716	ECUV1H561KBN	560P	50V		ERJ8GEY0R00A		1/8W						
C717	ECUZNE104MBN	0.1	25V	RJ726	ERJ8GEY0R00A	0	1/8W						
C718	ECUV1C224KBN	0.22	16V	RJ727	ERJ8GEY0R00A	0	1/8W						
C721	ECUV1H150JCN	15P	50V	RJ728	ERJ8GEY0R00A	0	1/8W						
	ECUV1H150JCN		50V		ERJ8GEY0R00A		1/8W		····				
C723	ECEA1AKA221I	220	10V	RJ730	ERJ8GEY0R00A	0	1/8W						
C724	ECUV1C104MBM	0.1	16V										
C725	ECUV1H102KBN	1000P	50V		TEST JUMPERS								
C726	ECUV1H102KBN	1000P	50V									········	
C727	ECEA1HPK010I	1	50V	TJ701	EYF8CU	TEST	JUMPER						
C728	ECEA1HPK010I	1	50V	TJ702	EYF8CU	TEST	JUMPER						
C730	ECUZNE104MBN	0.1	25V						· · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	
C731	ECEA0JKA221I	220	6.3V		<loading mot<="" td=""><td>DR></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></loading>	DR>							
C732	ECEA0JKA221I	220	6.3V		CAPACITOR								
C733	ECUZNE104MBN	0.1	25V										
C734	ECEA1AKA221I	220	10V	C1	ECA1AKF820E	82	10V						
C735	ECUZNE104MBN	0.1	25V								 		
C736	ECUZNE104MBN	0.1	25V			<u> </u>							
C737	ECUZNE104MBN	0.1	25V										
C738	ECUV1C154KBN	0.15	16V										
	ECUV1E273KBN												
	ECUZNE104MBN		25V										



Remote Control Transmitter

SB-CH34

SA-CH34

SB-CH34

TAPE SECTION: SG20W MECHANISM SERIESCD SECTION: RAE0150Z TRAVERSE DECK SERIES

System	Music Center	Speaker
SC-CH34 GN	SA-CH34 GN	SB-CH34 GC

Please file and use this manual together with the service manual for Model No. SA-CH34, Order No : MD9603020C2.

Note: • This simplified service manual is provided to indicate the main differences between the original model no. SA-CH34 (EB) and the subsequent model SA-CH34 (GN) respectively.



Specifications

■ AM Tuner Section

Frequency range MW LW Sensitivity (for 500 mW) MW (at 999 kHz) LW (at 254 kHz)

SA-CH34(EB) Original

144 - 288 kHz $250 \,\mu\text{V/m}$ $500 \,\mu\text{V/m}$

522 — 1611 kHz

Frequency range AM

522 — 1611 kHz

Sensitivity (for 500 mW) AM (at 999 kHz) 250 μV/m

SA-CH34(GN)

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This service information is designed for experience repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Parts Comparison Table

- Notes: Important safety notice:
 - Components identified by A mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low noise (resistors), etc are used. When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list.

- [M] Indicates in the Remarks columns indicates parts supplied by MESA.
- The "(SF)" mark denotes the standard part.
- [VRD] Indicates in the Remarks columns indicates parts supplied by Video Recorder Division.

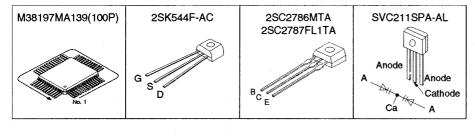
		Change of P		
Ref. No.	Description	SA-CH34 (EB) (Original)	SA-CH34 (GN)	Remarks
CABINET AND	CHASSIS		•	
10	REAR PANEL ASS'Y	RFKHACH34EBK [M]	RFKHACH34GNK [M]	Changed
48	SHIELD COVER	RSC0403 [M]	RSC0027	Changed
62	REAR SHIELD PLATE	RSCX0035 [M]		Deleted
INTEGRATED	CIRCUIT			
IC901	IC, MICRO PROCESSOR	M38197MA133 [M]	M38197MA139 [M]	Changed
10901				Changeu
TRANSISTORS) 	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
Q1	TRANSISTOR		2SK544F-AC	Added
Q2	TRANSISTOR		2SC2786MTA	Added
Q3	TRANSISTOR		2SC2787FL1TA	Added
Q4	TRANSISTOR		2SC2787FL1TA	Added
Q12	TRANSISTOR	2SC2787LTA	—	Deleted
Q13	TRANSISTOR	2SC1740SSTA		Deleted
Q14	TRANSISTOR	2SC1740SSTA	<u> </u>	Deleted
Q15	TRANSISTOR	2SC1740SSTA		Deleted
DIODES				
DIODES	· · · ·			
D1	DIODE	······································	SVC211SPA-AL	Added
D2	DIODE		SVC211SPA-AL	Added
D3	DIODE		SVC211SPA-AL	Added
COILS & TRAN	SFORMERS	<u></u>		A
		· · · · · · · · · · · · · · · · · · ·		
L1	COIL		RLQZP1R2KT-Y	Added
L2	COIL		RLQZPR47KT-Y	Added
L9	A.B. FILTER	SLM1B10-1M	_	Deleted
COMPONENT	COMBINATION	·····		
Z1	AM ANT. COIL	RLA6Z005M-T	RLA2Z002M-T	Changed
Aug 1				Shangea

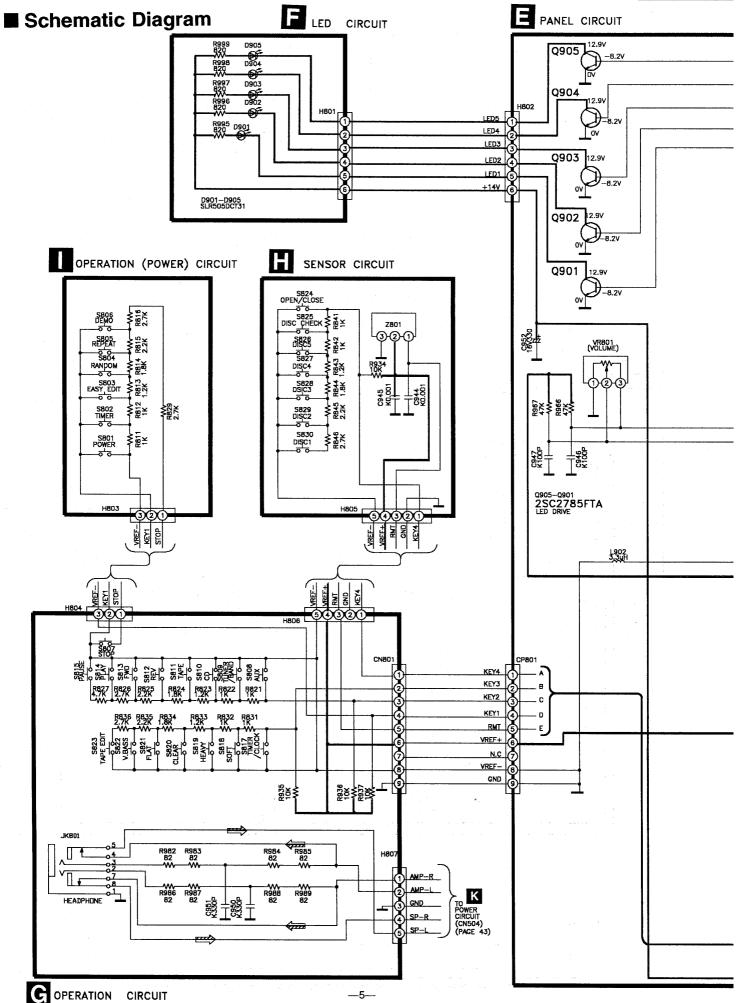
	Description			Change of Parts Number				
Ref. No.				SA-CH34 (EB) (Original)		SA-CH34 (GN)		Remarks
CERAMIC FILTI	ERS							· · · · · · · · · · · · · · · · · · ·
CF1	FMCF			RLFFETNG	A01L	RLFFETWNA0	1L	Changed
CF2	FM CF			RLFFETNG		RLFFETWNA0	1L	Changed
							·	onaigea
DISPLAY TUBE								
FL801	FLDISPLAY			RSL0217-F	[M]	RSL0230-D	[M]	Changed
JACK								· · · · ·
	······································							
JK1	JK, FM ANT. TERMI	NAL		RJH8201	[M]	RJH5301	[M]	Changed
PACKING MATI	ERIALS							
P2	GIFT BOX			RPGX0250	[M]	RPGX0252	[M]	Changed
P5	VINYL BAG			XZB24X33C		SPB1061	[141]	Changed
					<u>∽</u> -	51 51001		Charged
ACCESSORIES		· · · · · · · · · · · · · · · · · · ·						
A3	FM ANTENNA	· · · · · · · · · · ·		RSA0007		RSA0006		Changed
A5	AC CORD		A	VIACTOR		B	73 43	Changed
CAPACITORS				VJA0733	(SF) [VRD]	RJA0035-K	[M]	Changed
	CAPACITOR	5.6P	50V			ECBT1H5R6K0	······································	Added
CAPACITORS		5.6P 1000P				·····	25	· · · · · · · · · · · · · · · · · · ·
CAPACITORS	CAPACITOR		50V			ECBT1H5R6K0	25 3Y	Added
CAPACITORS C1 C2	CAPACITOR CAPACITOR	1000P	50V 50V			ECBT1H5R6K0 RCBS1H102KE	C5 3Y C5	Added Added
CAPACITORS C1 C2 C3	CAPACITOR CAPACITOR CAPACITOR	1000P 2.2P	50V 50V 50V			ECBT1H5R6K0 RCBS1H102KE ECBT1H2R2K0	25 3Y 25 35	Added Added Added
CAPACITORS C1 C2 C3 C4	CAPACITOR CAPACITOR CAPACITOR CAPACITOR	1000P 2.2P 180P	50V 50V 50V 50V		(SF) [VHD]	ECBT1H5R6K0 RCBS1H102KE ECBT1H2R2K0 ECBT1H181KE	C5 3Y C5 35 C5 C5	Added Added Added Added
CAPACITORS C1 C2 C3 C4 C5	CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR	1000P 2.2P 180P 5.6P	50V 50V 50V 50V 50V 50V			ECBT1H5R6K0 RCBS1H102KE ECBT1H2R2K0 ECBT1H181KE ECBT1H5R6K0	25 3Y 25 35 25 25 25	Added Added Added Added Added
C1 C2 C3 C4 C5 C6	CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR	1000P 2.2P 180P 5.6P 3.3P	50V 50V 50V 50V 50V 50V 50V			ECBT1H5R6K0 RCBS1H102KE ECBT1H2R2K0 ECBT1H181KE ECBT1H5R6K0 ECBT1H3R3K0	25 3Y 25 35 25 25 25 25 25	Added Added Added Added Added Added
CAPACITORS C1 C2 C3 C4 C5 C6 C7	CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR	1000P 2.2P 180P 5.6P 3.3P 4.7P	50V 50V 50V 50V 50V 50V 50V 50V			ECBT1H5R6K0 RCBS1H102KE ECBT1H2R2K0 ECBT1H181KE ECBT1H5R6K0 ECBT1H3R3K0 ECBT1H4R7K0	25 3Y 25 25 25 25 25 25 25 25 25	Added Added Added Added Added Added Added
CAPACITORS C1 C2 C3 C4 C5 C6 C7 C8	CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR	1000P 2.2P 180P 5.6P 3.3P 4.7P 3.3P	50V 50V 50V 50V 50V 50V 50V 50V			ECBT1H5R6K0 RCBS1H102KE ECBT1H2R2K0 ECBT1H181KE ECBT1H5R6K0 ECBT1H3R3K0 ECBT1H4R7K0 ECBT1H3R3K0	C5 3Y C5 55 C5 C5 C5 C5 C5 C5 C5 C5 C5 C5	Added Added Added Added Added Added Added Added
CAPACITORS C1 C2 C3 C4 C5 C6 C7 C8 C9	CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR	1000P 2.2P 180P 5.6P 3.3P 4.7P 3.3P 2.2P	50V 50V 50V 50V 50V 50V 50V 50V 50V			ECBT1H5R6K0 RCBS1H102KE ECBT1H2R2K0 ECBT1H181KE ECBT1H5R6K0 ECBT1H3R3K0 ECBT1H4R7K0 ECBT1H3R3K0 ECBT1H3R3K0	25 3Y 25 25 25 25 25 25 25 25 25 25 25	Added Added Added Added Added Added Added Added Added
CAPACITORS C1 C2 C3 C4 C5 C6 C7 C8 C9 C10	CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR	1000P 2.2P 180P 5.6P 3.3P 4.7P 3.3P 2.2P 18P	50V 50V 50V 50V 50V 50V 50V 50V 50V 50V			ECBT1H5R6K0 RCBS1H102KE ECBT1H2R2K0 ECBT1H181KE ECBT1H5R6K0 ECBT1H3R3K0 ECBT1H4R7K0 ECBT1H3R3K0 ECBT1H2R2K0 ECBT1H2R2K0	25 3Y 25 25 25 25 25 25 25 25 25 25 25 25 25	Added Added Added Added Added Added Added Added Added Added
CAPACITORS C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11	CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR	1000P 2.2P 180P 5.6P 3.3P 4.7P 3.3P 2.2P 18P 1000P	50V 50V 50V 50V 50V 50V 50V 50V 50V 50V		MS5	ECBT1H5R6K0 RCBS1H102KE ECBT1H2R2K0 ECBT1H181KE ECBT1H5R6K0 ECBT1H3R3K0 ECBT1H4R7K0 ECBT1H4R7K0 ECBT1H2R2K0 ECBT1H180JC RCBS1H102KE	25 3Y 25 25 25 25 25 25 25 25 25 25 25 25 25	Added Added Added Added Added Added Added Added Added Added Added
CAPACITORS C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C38	CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR	1000P 2.2P 180P 5.6P 3.3P 4.7P 3.3P 2.2P 18P 1000P 0.01	50V 50V 50V 50V 50V 50V 50V 50V 50V 50V		MS5 MS5	ECBT1H5R6K0 RCBS1H102KE ECBT1H2R2K0 ECBT1H181KE ECBT1H5R6K0 ECBT1H3R3K0 ECBT1H4R7K0 ECBT1H3R3K0 ECBT1H2R2K0 ECBT1H2R2K0 ECBT1H180JC RCBS1H102KE ECBT1C103MS	25 3Y 25 25 25 25 25 25 25 25 25 25 25 25 25	Added Added Added Added Added Added Added Added Added Added Added Added Changed
CAPACITORS C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C38 C39 C42 C42 C43	CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR	1000P 2.2P 180P 5.6P 3.3P 4.7P 3.3P 2.2P 18P 1000P 0.01 0.01 6800P 6800P	50V 50V 50V 50V 50V 50V 50V 50V 50V 50V		2MS5 2MS5 2MR5 2MR5	ECBT1H5R6K0 RCBS1H102KE ECBT1H2R2K0 ECBT1H181KE ECBT1H5R6K0 ECBT1H3R3K0 ECBT1H4R7K0 ECBT1H4R7K0 ECBT1H2R2K0 ECBT1H2R2K0 ECBT1H180JC RCBS1H102KE ECBT1C103MS ECBT1C682MF ECBT1C682MF	25 3Y 25 25 25 25 25 25 25 25 25 25 25 25 25	Added Added Added Added Added Added Added Added Added Added Added Changed Changed Changed
CAPACITORS C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C38 C39 C42 C43 C43 C48	CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR	1000P 2.2P 180P 5.6P 3.3P 4.7P 3.3P 2.2P 18P 1000P 0.01 0.01 6800P 6800P 8.2P	50V 50V 50V 50V 50V 50V 50V 50V 50V 50V		2MS5 2MS5 2MR5 2MR5	ECBT1H5R6K0 RCBS1H102KE ECBT1H2R2K0 ECBT1H181KE ECBT1H5R6K0 ECBT1H3R3K0 ECBT1H4R7K0 ECBT1H4R7K0 ECBT1H2R2K0 ECBT1H180J0 RCBS1H102KE ECBT1C103MS ECBT1C103MS	25 3Y 25 25 25 25 25 25 25 25 25 25 25 25 25	Added Added Added Added Added Added Added Added Added Added Added Changed Changed
CAPACITORS C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C38 C39 C42 C43 C44 C48 C48 C49	CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR	1000P 2.2P 180P 5.6P 3.3P 4.7P 3.3P 2.2P 18P 1000P 0.01 0.01 6800P 6800P 8.2P 330P	50V 50V 50V 50V 50V 50V 50V 50V 50V 50V		2MS5 2MS5 2MS5 2MR5 2MR5 2MR5 2JC5 KB5	ECBT1H5R6K0 RCBS1H102KE ECBT1H2R2K0 ECBT1H181KE ECBT1H5R6K0 ECBT1H3R3K0 ECBT1H4R7K0 ECBT1H4R7K0 ECBT1H2R2K0 ECBT1H180JC RCBS1H102KE ECBT1C103MS ECBT1C103MS ECBT1C682MF	25 3Y 25 25 25 25 25 25 25 25 25 25 25 25 25	Added Added Added Added Added Added Added Added Added Added Added Changed Changed Changed Changed Changed
CAPACITORS C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C38 C39 C42 C43 C43 C48	CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR	1000P 2.2P 180P 5.6P 3.3P 4.7P 3.3P 2.2P 18P 1000P 0.01 0.01 6800P 6800P 8.2P	50V 50V 50V 50V 50V 50V 50V 50V 50V 50V		2MS5 2MS5 2MS5 2MR5 2MR5 2MR5 2JC5 KB5	ECBT1H5R6K0 RCBS1H102KE ECBT1H2R2K0 ECBT1H181KE ECBT1H5R6K0 ECBT1H3R3K0 ECBT1H4R7K0 ECBT1H4R7K0 ECBT1H2R2K0 ECBT1H180JC RCBS1H102KE ECBT1C103MS ECBT1C103MS ECBT1C682MF	25 3Y 25 25 25 25 25 25 25 25 25 25 25 25 25	Added Added Added Added Added Added Added Added Added Added Added Changed Changed Changed Changed
CAPACITORS C1 C2 C3 C3 C4 C5 C6 C7 C8 C9 C10 C11 C38 C39 C42 C43 C48 C48 C49	CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR	1000P 2.2P 180P 5.6P 3.3P 4.7P 3.3P 2.2P 18P 1000P 0.01 0.01 6800P 6800P 8.2P 330P 1000P 330P	50V 50V 50V 50V 50V 50V 50V 50V 50V 50V		2MS5 2MS5 2MS5 2MR5 2MR5 2MR5 2MR5 2MR5 2MR5 2MR5 2MR	ECBT1H5R6K0 RCBS1H102KE ECBT1H2R2K0 ECBT1H181KE ECBT1H5R6K0 ECBT1H3R3K0 ECBT1H4R7K0 ECBT1H4R7K0 ECBT1H2R2K0 ECBT1H180JC RCBS1H102KE ECBT1C103MS ECBT1C103MS ECBT1C682MF	25 3Y 25 25 25 25 25 25 25 25 25 25 25 25 25	Added Added Added Added Added Added Added Added Added Added Added Changed Changed Changed Changed Changed
CAPACITORS C1 C2 C3 C4 C5 C6 C7 C6 C7 C8 C9 C10 C11 C38 C39 C42 C43 C48 C49 C49 C68	CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR CAPACITOR	1000P 2.2P 180P 5.6P 3.3P 4.7P 3.3P 2.2P 18P 1000P 0.01 0.01 6800P 6800P 8.2P 330P 1000P	50V 50V 50V 50V 50V 50V 50V 50V 50V 50V		MS5 MS5 MS5 MR5 MR5 MR5 MR5 MR5 MR5 MR5 MR5 MR5 KB5 KB5 KB5 KB5	ECBT1H5R6K0 RCBS1H102KE ECBT1H2R2K0 ECBT1H181KE ECBT1H5R6K0 ECBT1H3R3K0 ECBT1H3R3K0 ECBT1H4R7K0 ECBT1H2R2K0 ECBT1H180JC RCBS1H102KE ECBT1C103MS ECBT1C682MF ECBT1C682MF ECBT1C682MF	25 3Y 25 25 25 25 25 25 25 25 25 25 25 25 25	Added Added Added Added Added Added Added Added Added Added Changed Changed Changed Changed Changed Changed Deleted

	Description			Change of		
Ref. No.				SA-CH34 (EB) (Original)	SA-CH34 (GN)	Remarks
RESISTORS					· · · · · · · · · · · · · · · · · · ·	·····
R1	RESISTOR	100K	1/4W		ERDS2TJ104T	Added
R2	RESISTOR	100K	1/4W		ERDS2TJ104T	Added
R3	RESISTOR	220	1/4W	·	ERDS2TJ221T	Added
R4	RESISTOR	100K	1/4W		ERDS2TJ104T	Added
R5	RESISTOR	560K	1/4W		ERDS2TJ564T	Added
R6	RESISTOR	390	1/4W		ERDS2TJ391T	Added
R7	RESISTOR	2.7K	1/4W		ERDS2TJ272T	Added
R8	RESISTOR	680K	1/4W	—	ERDS2TJ684T	Added
R9	RESISTOR	390	1/4W		ERDS2TJ391T	Added
R10	RESISTOR	390	1/4W		ERDS2TJ391T	Added
R11	RESISTOR	680K	1/4W	-	ERDS2TJ684T	Added
R16	RESISTOR	1K	1/4W	ERDS2TJ153T	ERDS2TJ102T	Changed
R19	RESISTOR	220K	1/4W	ERDS2TJ474T	ERDS2TJ224T	Changed
R34	RESISTOR	2.7K	1/4W	ERDS2TJ103T	ERDS2TJ272T	Changed
R35	RESISTOR	2.7K	1/4W	ERDS2TJ103T	ERDS2TJ272T	Changed
R71	RESISTOR	1.8K	1/4W	ERDS2TJ182T		Deleted
R72	RESISTOR	1.2K	1/4W	ERDS2TJ122T		Deleted
R73	RESISTOR	1.2K	1/4W	ERDS2TJ122T	—	Deleted
R74	RESISTOR	10K	1/4W	ERDS2TJ103T		Deleted
R75	RESISTOR	2.2K	1/4W	ERDS2TJ222T		Deleted
R76	RESISTOR	330	1/4W	ERDS2TJ331T		Deleted
R77	RESISTOR	470K	1/4W	ERDS2TJ474T	_	Deleted
R949	RESISTOR	100K	1/4W	ERDS2TJ104T		Deleted
R950	RESISTOR	100K	1/4W	ERDS2TJ104T		Deleted
R963	RESISTOR	470K	1/4W	<u> </u>	ERDS2TJ474T	Added

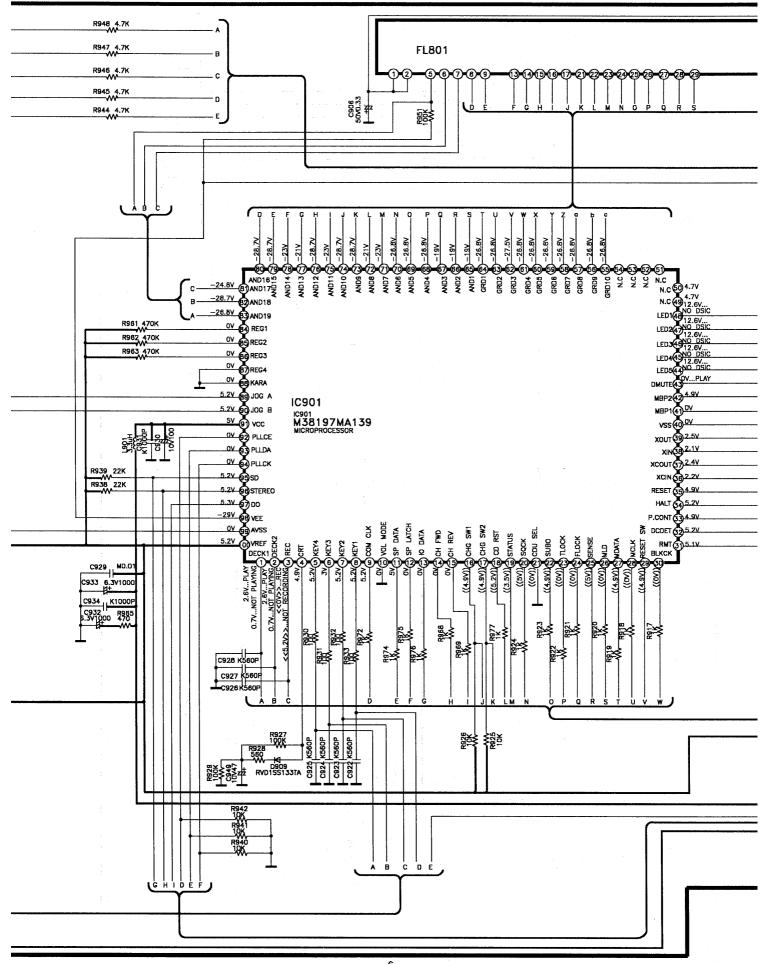
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■ Terminal Guide of ICs, Transistors and Diodes

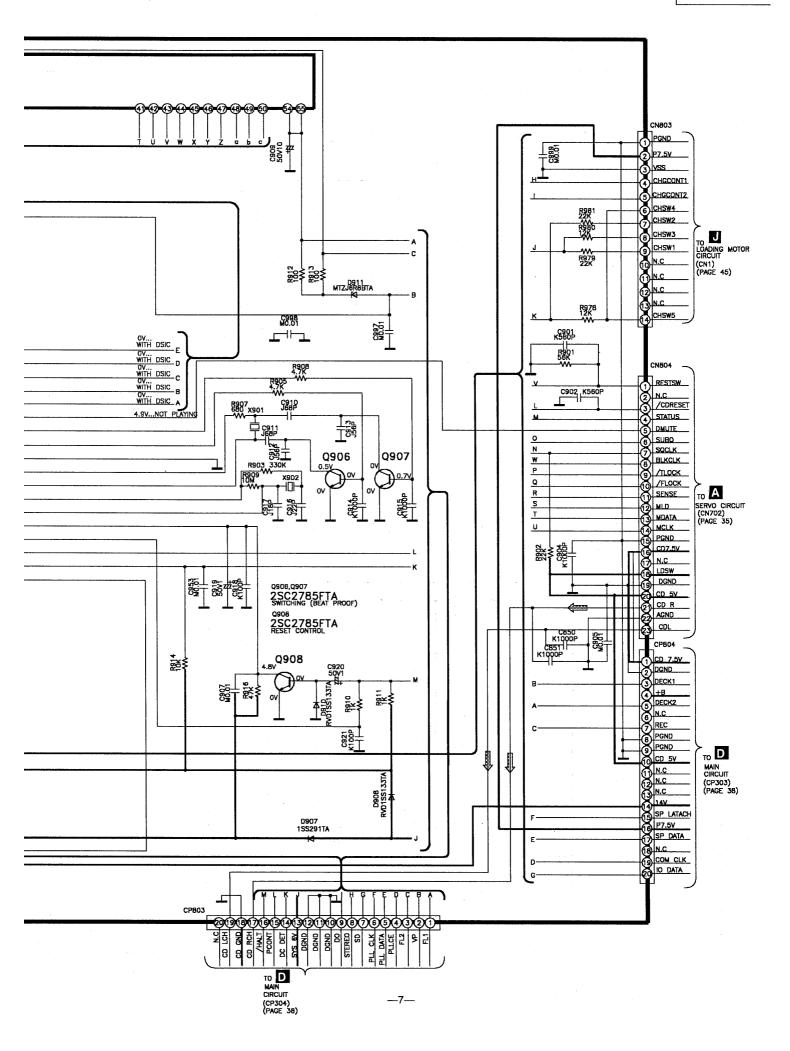


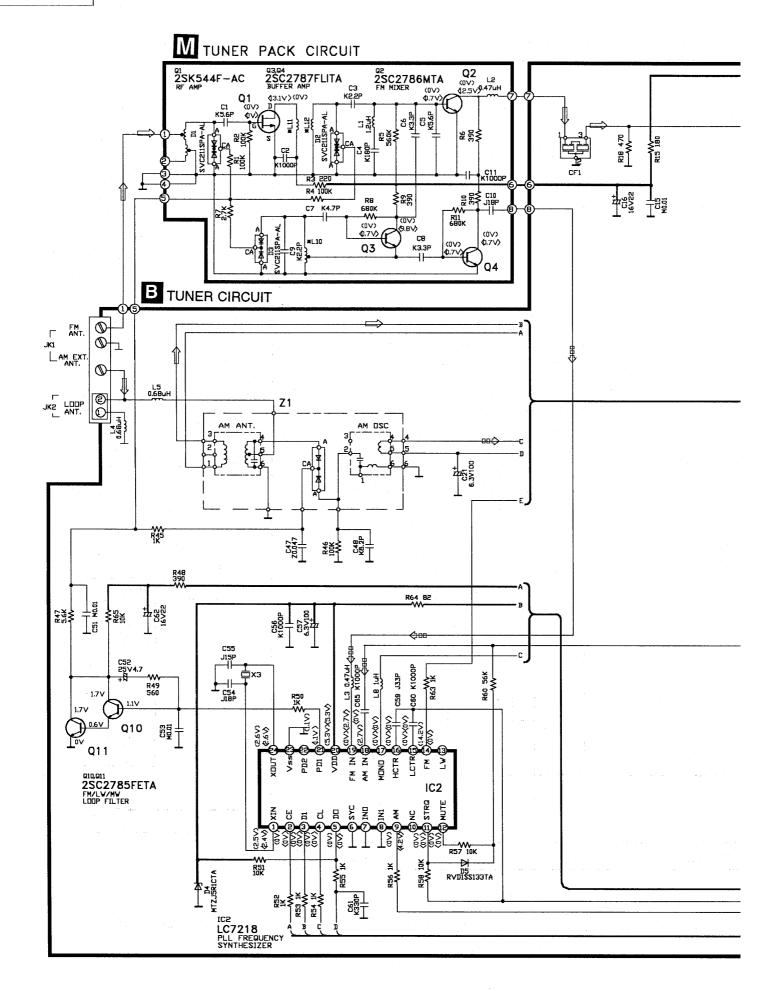


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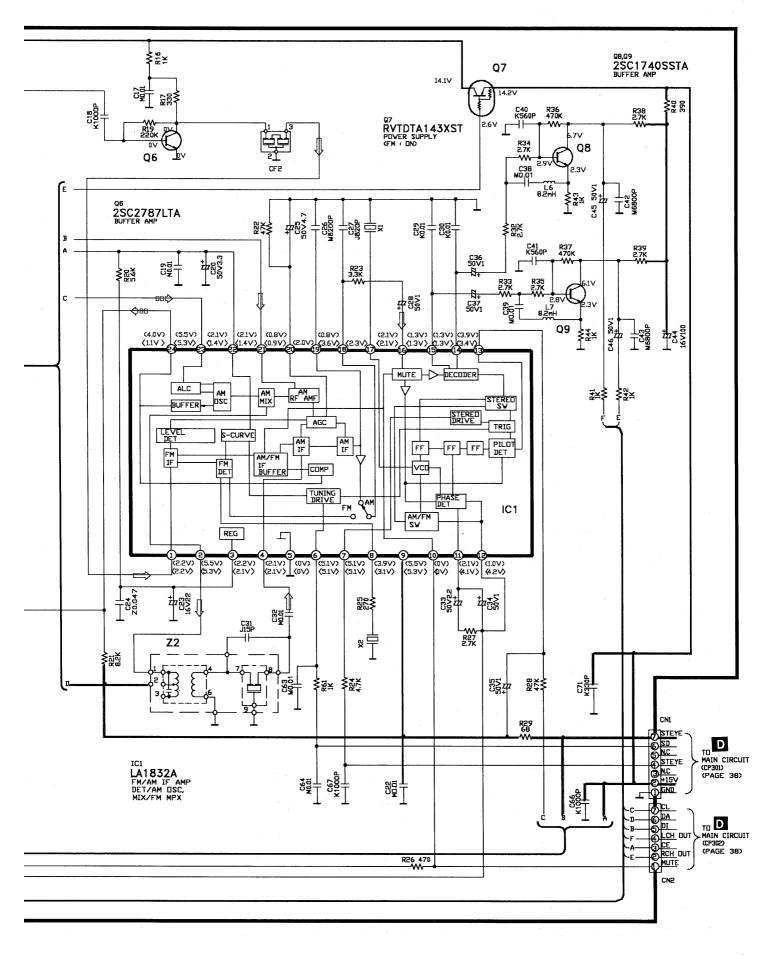


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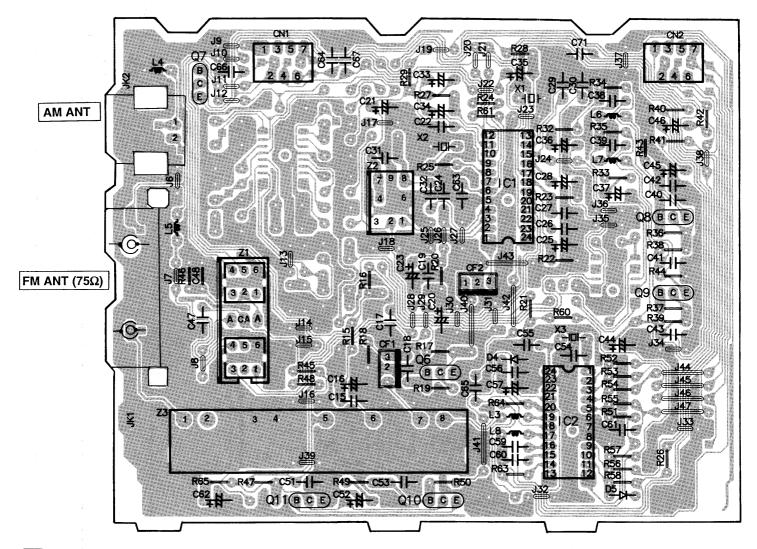
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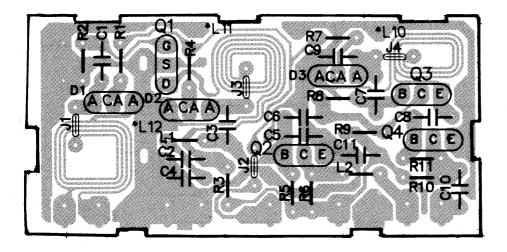
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Printed Circuit Board

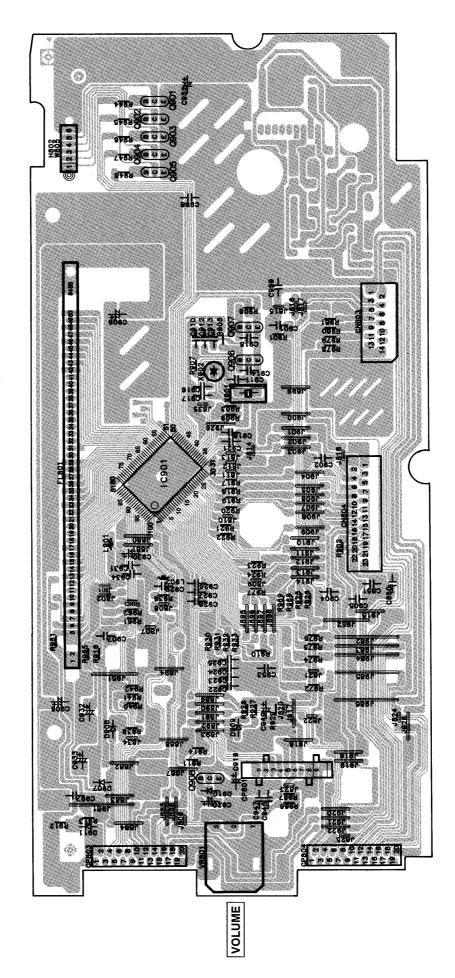
B TUNER P.C.B. (REP2000D)



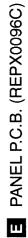
M TUNER PACK P.C.B. (REP1999B)



For OPERATION P.C.B., LED P.C.B., OPERATION(POWER) P.C.B. and SENSOR P.C.B. REPX0096B ... SA-CH34(EB) changed to REPX0096C ... SA-CH34(GN)

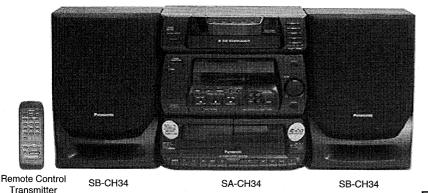


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MESA Printed in Singapore G960700900 X/F

ORDER NO. MD9603007C1 A6 Service Manu **CD** Stereo System MASH SA-CH34



TAPE SECTION : SG20W MECHANISM SERIES CD SECTION : RAE0150Z TRAVERSE DECK SERIES Specifications

Amplifier Section

Rated minimum sine wave FTC power outpu 90 Hz – 20 kHz both channels driven	ıt
1% total harmonic distortion	2 x 20 W (4 Ω)
1 kHz continuous power output, both chann	()
1% total harmonic distortion (DIN POWE	ER) 2 x 22 W (4 Ω)
Total harmonic distortion	
Half power at 1 kHz	0.1 % (4 Ω)
Frequency response	
CD	45 Hz - 20 kHz (–3 dB)
Input sensitivity	. ,
AUX	250 mV
Input impedance	
AUX	47 kΩ
Load impedance	4 Ω

FM Tuner Section

Frequency range	87.9 – 107.9 MHz (200 kHz steps)
	87.5 - 108.0 MHz (100 kHz steps)
Sensitivity	23.3 dBf (4.0μV, IHF '58)
Total harmonic distortion	
MONO	0.3 %
STEREO	0.5 %
S/N (MONO)	65 dB
Frequency response	50 Hz – 15 kHz, (+0.5 dB, –2 dB)
Image rejection at 98.1 MHz	46 dB
Stereo separation at 1kHz	35 dB
Antenna terminal(s)	75 Ω (unbalanced)
AM Tuner Section	
Frequency range	520 – 1710 kHz
Sensitivity	
(for 500 mW)	280μ V/m
· · · · · · · · · · · · · · · · · · ·	

(for 500 mW) (S/N 20dB) Image rejection at 1000 kHz

Notes :

- Specifications are subject to change without notice. 1. Weight and dimensions are approximate.
- Total harmonic distortion is measured by the digital spectrum analyzer. 2



Area	(K) Black Type						
Suffix for Model No.	Area	Colour					
(P)	U.S.A.						
(PC)	Canada	— (K)					

Colour

MASH is a trademark of NTT.

System	Music Center	Speaker			
SC-CH34 (P)	SA-CH34 (P)				
SC-CH34 (PC)	SA-CH34 (PC)	SB-CH34 (P)			

Cassette Deck Section

Track system 4 track, 2 channel Heads Playback Solid permallov head **Record/playback** Erasure Motor **Recording system Erasing system** Tape speed **Frequency** response NORMAL 30 Hz - 14 kHz (+2 dB, -5 dB) S/N (NORMAL TYPE) 52 dB (A weighted) Wow and flutter 0.1 % (WRMS) Fast forward and rewind times

Approx. 110 seconds with C-60 cassette tape

CD Section

Sampling frequency Decoding Beam source/wave length No. of channels S/N(CD UNIT OUT) Wow and flutter **Digital filter D/A converter**

General

Power consumption Power supply Dimensions (W x H x D)

Weight

 500μ V/m

40 dB

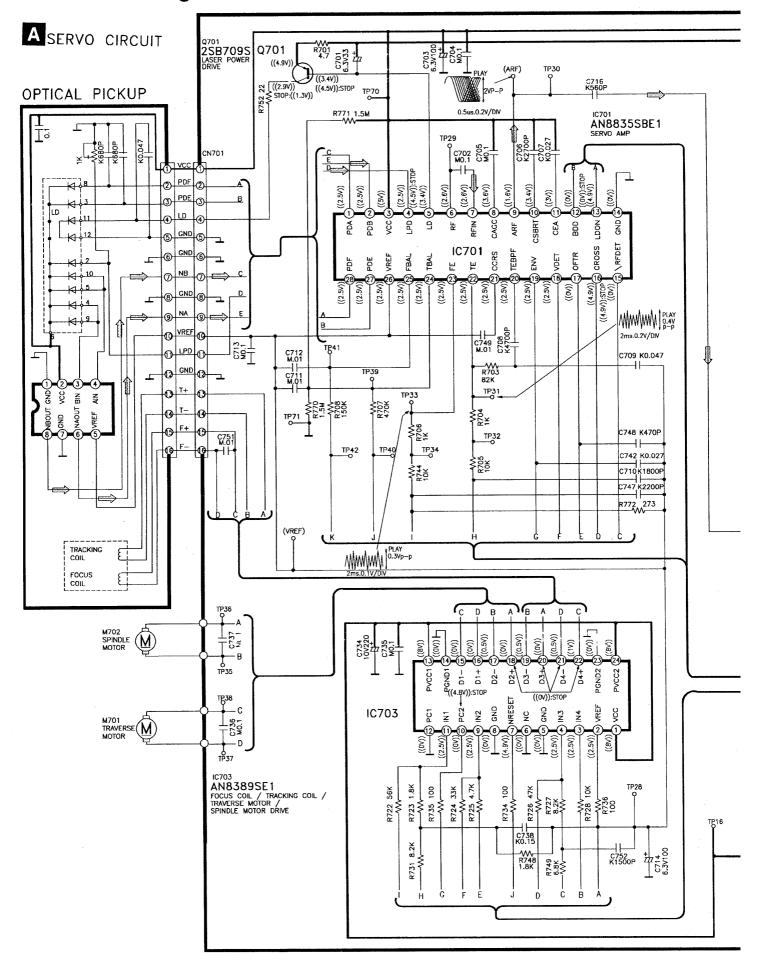
44 1 kHz 16 bit linear Semiconductor laser / 780 nm Stereo 95 dB (JIS. A) Below measurable limit 8 fs MASH (1 bit DAC)

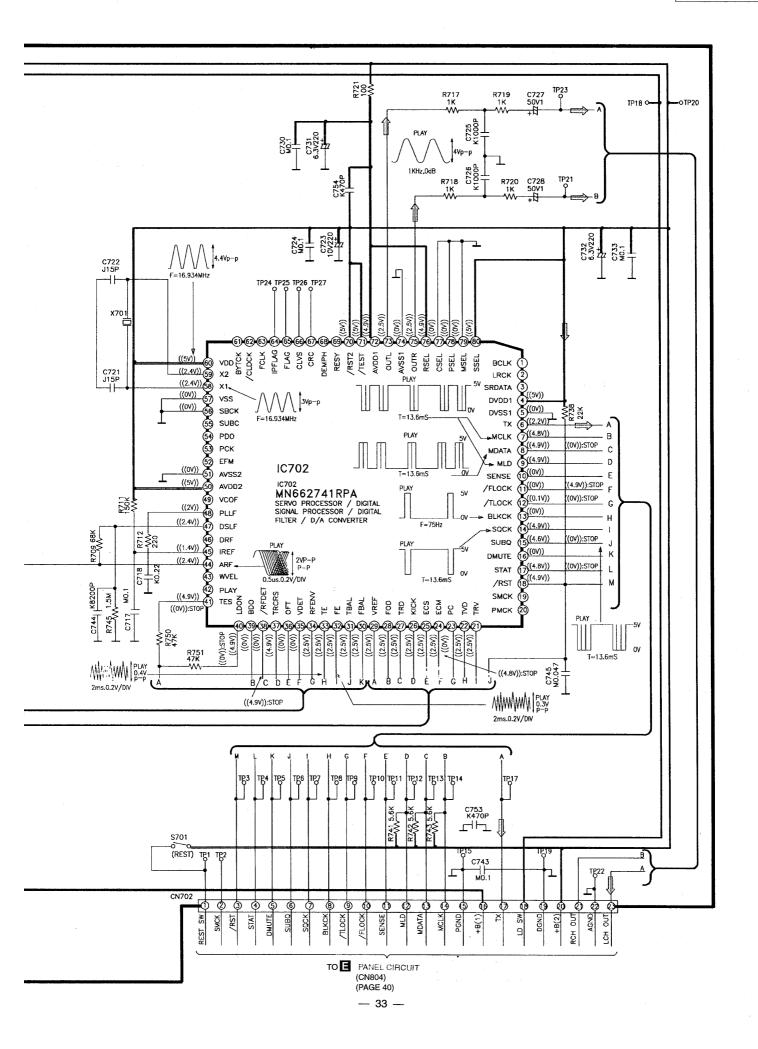
> 77.W AC 120 V, 60 Hz 270 x 320 x 322 mm $(10^{5}/_{8}$ " x $12^{19}/_{32}$ " x $12^{11}/_{16}$ ") 6.4 kg (14.1 lb.)

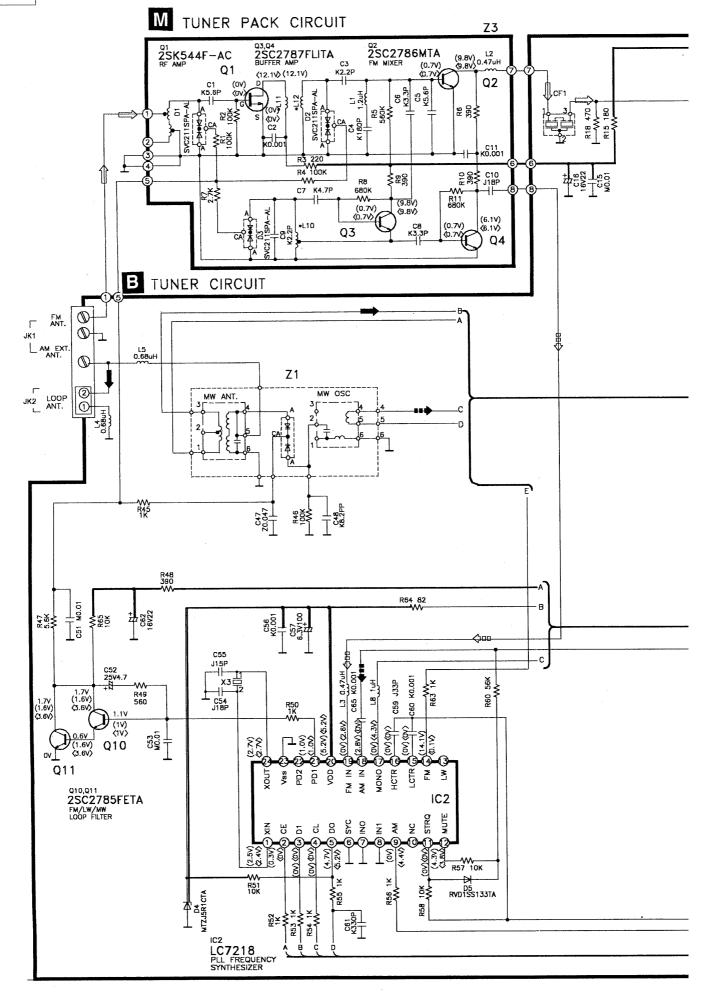
© 1996 Matsushita Electronics (S) Pte. Ltd. All rights reserved. Unauthorized copying and distribution is a violation of law.

Solid permalloy head Double gap ferrite head DC servo motor AC bias 100 kHz AC erase 100 kHz 4.8 cm/sec (17/8 ips)

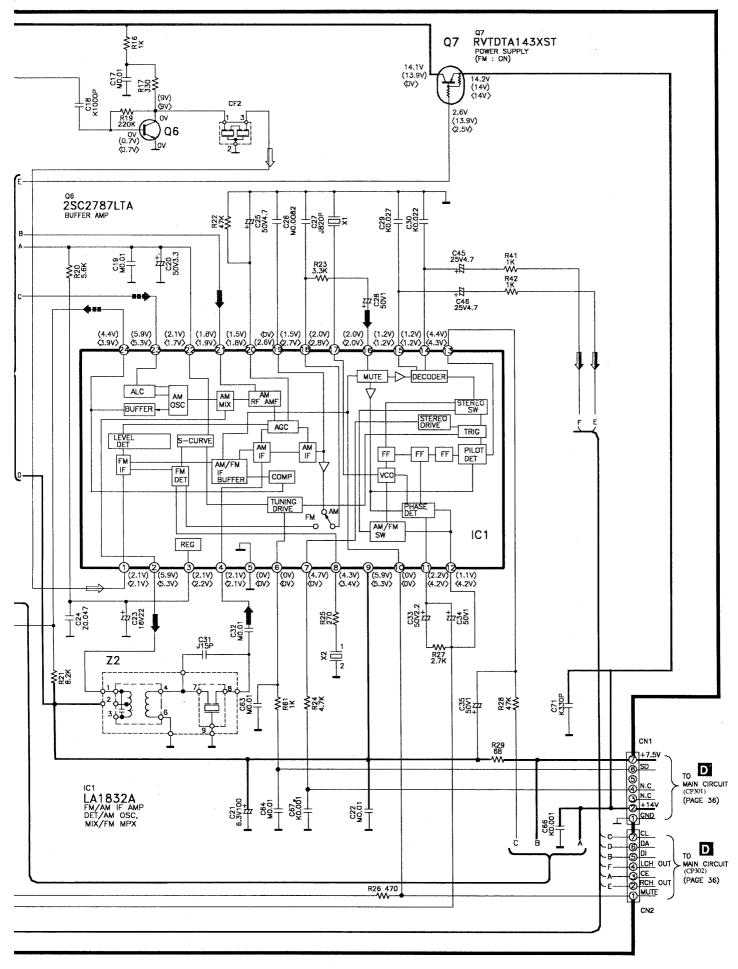
Schematic Diagram



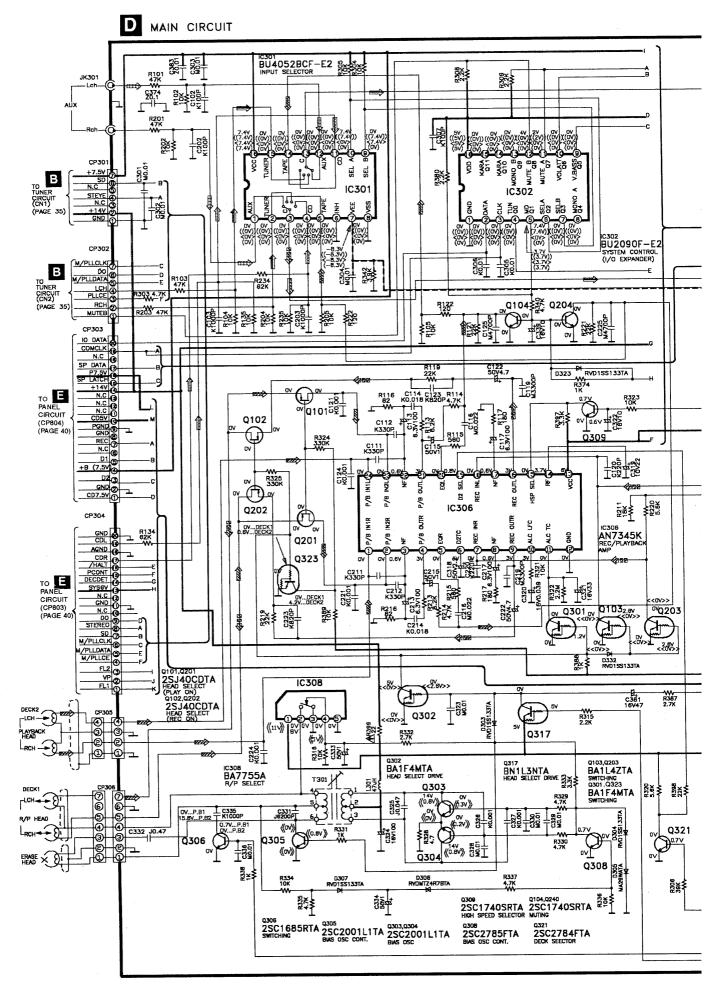




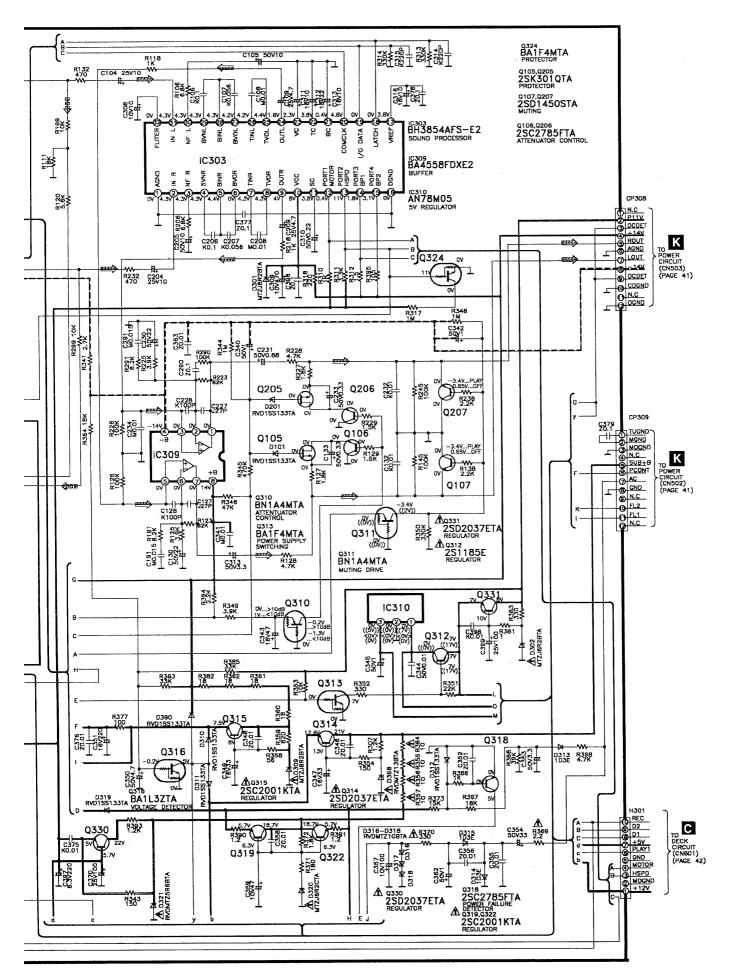
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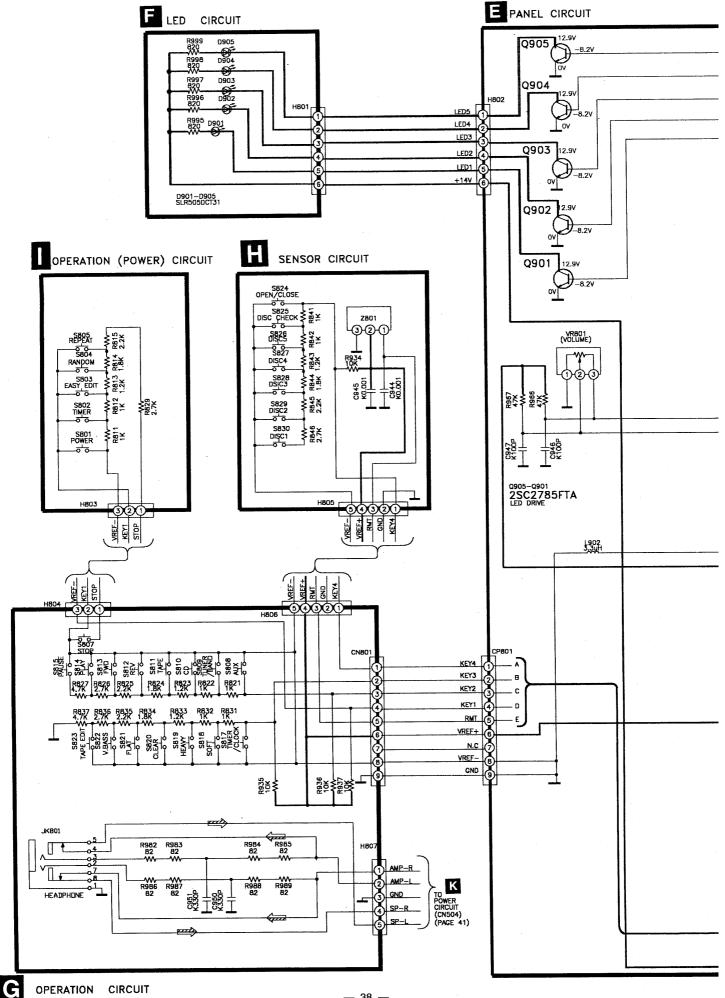


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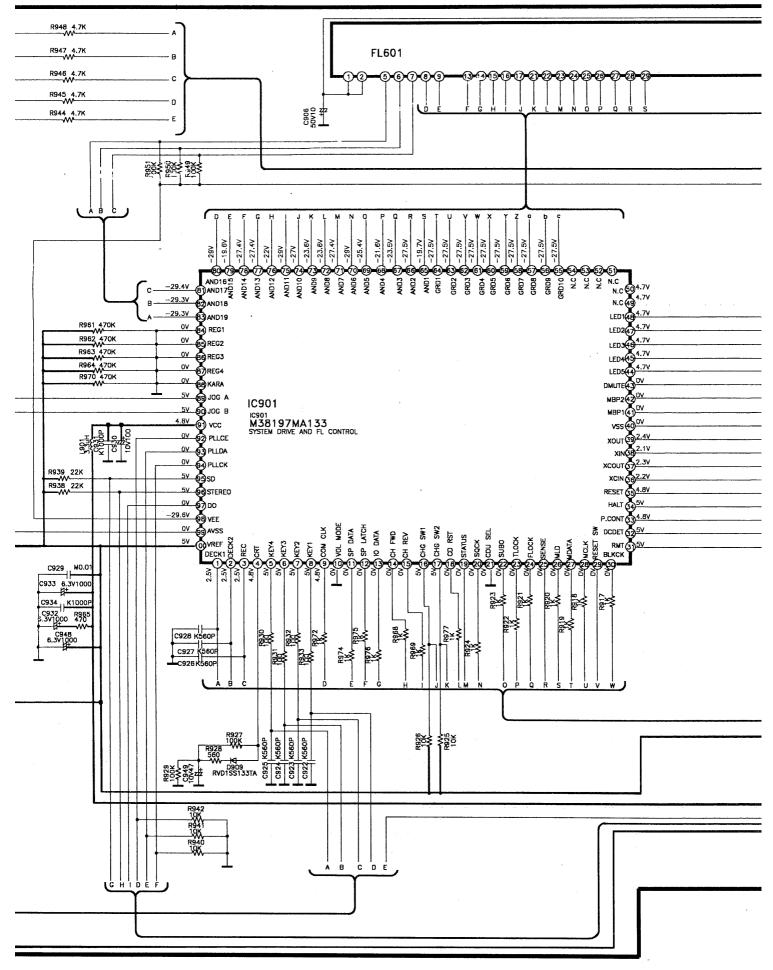


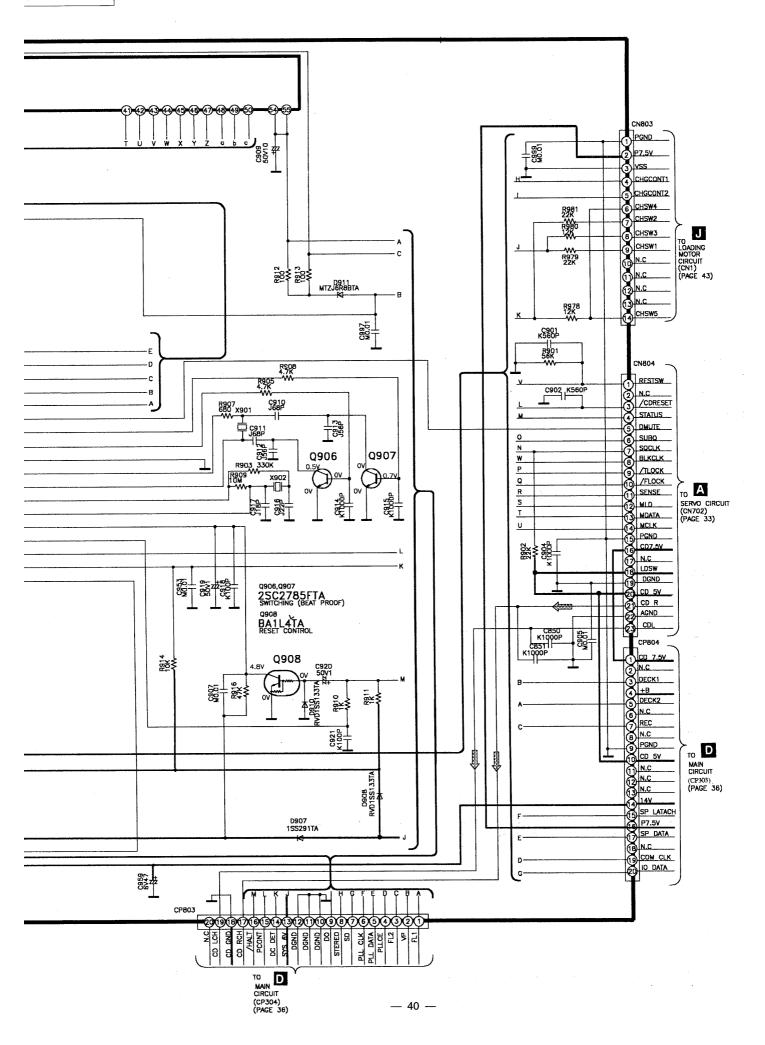
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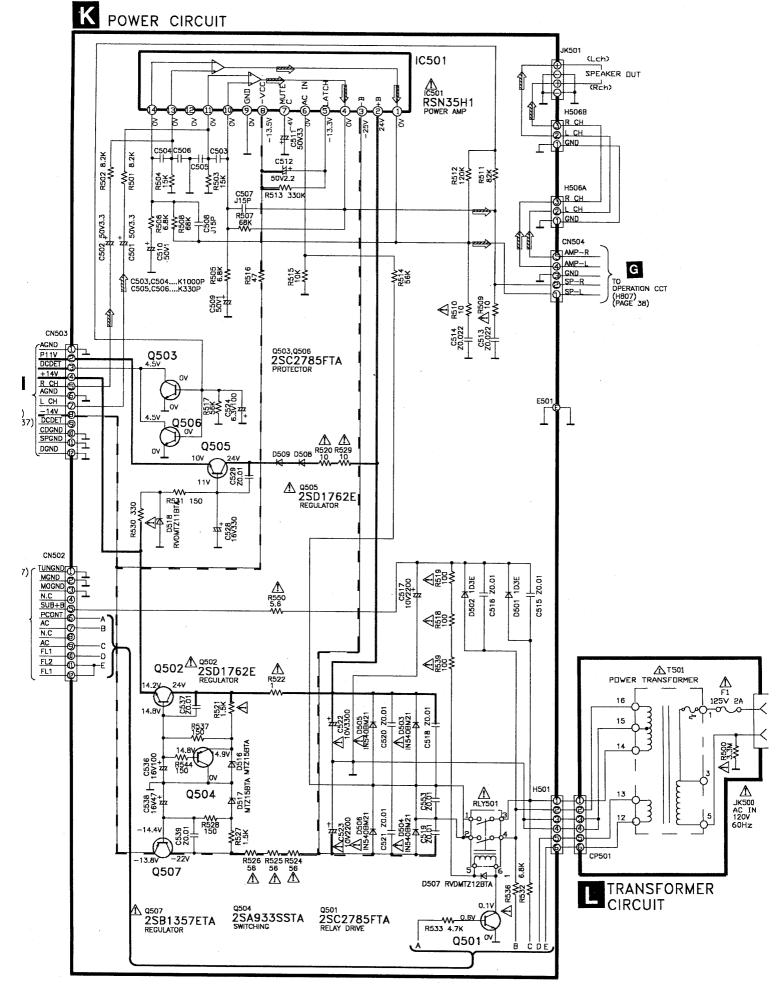


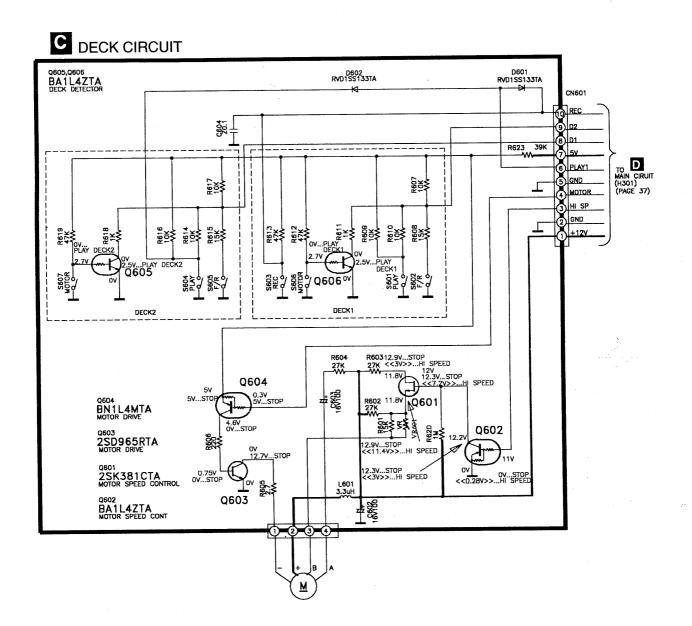


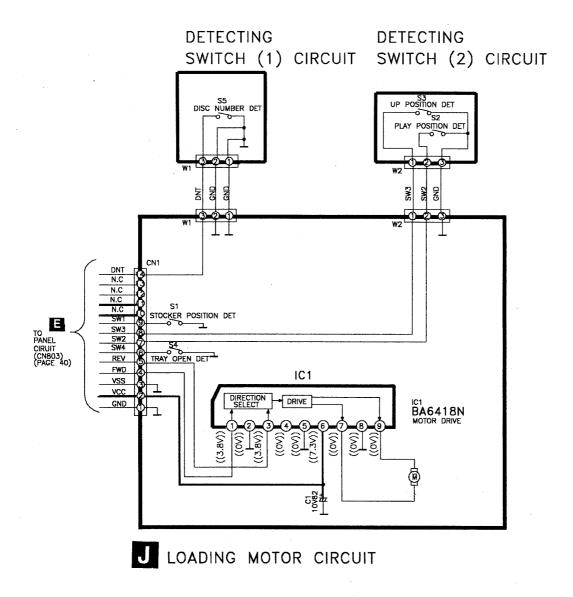
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Replacement Parts List

Notes: • Important safety notice :

Components identified by ${
m I}$ mark have special characteristics important for safety.

Components identified by A mark have special characteristics important for safety.
Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
The parenthesized indications in the Remarks column specify the areas. (refer to the cover page for area.)
Parts without these indications can be used for all areas.
[M] indicates in Remarks column parts that are supplied by MESA.
The "(SF)" mark denotes the standard part.
Remote Control Unit : Supply period for three years from terminal of production.
Warning: This product uses a laser diode. Refer to caution statements on page 2.

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Ref No.	Part No.	Part Name & Description	Remarks	Ref No	Part No. I	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHAS	SIS	34	RMB0447	CD LID SPRING	[M]	IC501	RSN35H1	IC, HIC	Λ
				35	RMC0158-S	TRFIXTURE	[M]	IC901	M38197MA133	IC, MICRO PROCESSOR	[M]
1	RDG5874ZB	DAMPERGEAR	[M]	36	RMEX0002	CASS. OPEN SPRING	[M]				
2	REE0657	14P FFC		37	RMNX0011	FL HOLDER	[M]			TRANSISTORS	
3	REE0658	23P FFC		38	RMR0368	PCB CHASSIS	[M]				
4	REXX0120	SHIELD WIRE (REC)	[M]	39	RMR0653-K	HEATSINK SUPPORT (L)	[M]	Q1	2SK544F-AC	TRANSISTOR	
5	REXX0121	SHIELD WIRE (PLAY)	[M]	40	RMR0654-K	HEATSINK SUPPORT (R)	[M]	Q2	2SC2786MTA	TRANSISTOR	
3	RFKGACH34PK	FRONT PANEL ASS'Y	[M]	41	RMR0741-X	PCB SUPPORT (PIN)	[M]	Q3	2SC2787FL1TA	TRANSISTOR	
5-1	RKA0059-K	LEG RUBBER	[M]	42	RMR0824-W	WIRECLAMPER		Q4	2SC2787FL1TA	TRANSISTOR	
7	RFKNACH430GB	5-LED REFLECTORASSY		43	RMR0908-X	PANEL PCB SUPPORT	[M]	Q6	2SC2787LTA	TRANSISTOR	
3	RFKJACH430GK	BOTTOMCHASSISASSY		44	RMRX0007	MECHA SUPPORT (L)	[M]	Q7	RVTDTA143XST	TRANSISTOR	
3-1	RKA0059-K	LEG RUBBER	[M]	45	RMRX0008	MECHA SUPPORT (R)	[M]	Q10	2SC2785FETA	TRANSISTOR	
9		CASS. HOLDER ASS'Y	[M]	46	RMRX0022	MAIN PCB HOLDER	[M]	Q11	2SC2785FETA	TRANSISTOR	
- 9-1	RUS757ZAA		[M]	47	RMXX0004	MECHASPACER	[M]	Q101	2SJ40CDTA	TRANSISTOR	
10	RFKHACH34PCK	REAR PANEL ASS'Y	[M](PC)	48	RSC0027	SHIELDCOVER		Q102	2SJ40CDTA	TRANSISTOR	
10	RKFX0043-K	REAR PANEL	[M](P)	49	RSC0362	EARTH TERMINAL	[M]	Q103	BA1L4ZTA	TRANSISTOR	[M]
11	RGK0767A-K	CHANGERLID	[M]	50	RXXX0005	HEAT SINK UNIT	[M]	Q104	2SC1740SRTA	TRANSISTOR	
2	RGU1303A-K	POWERBUTTON	[M]	51	SHE187-4	PCB SUPPORT (NO PIN) [M]	Q105	2SK301QTA	TRANSISTOR	[M]
13	RGU1304A-K	DISKBUTTON	[M]	52	XTB3+10J	SCREW		Q106	2SC2785FTA	TRANSISTOR	
14	RGU1307-K	FUNCTION BUTTON	[M]	53	XTB3+10JFZ	REAR PANEL SCREW		Q107	2SD1450STA	TRANSISTOR	
15	RGUX0139-K	CONTROL BUTTON 1	[M]	54	XTB3+20J	POWER PCB SCREW		Q201	2SJ40CDTA	TRANSISTOR	
16	RGUX0140-K	CONTROL BUTTON 2	[M]	55	XTBS26+10J	PANEL PCB SCREW		Q202	2SJ40CDTA	TRANSISTOR	
17	RGUX0141-K	EQBUTTON	[M]	56	XTN2+14GF	MECHANISMPCBSCREV	V [M]	Q203	BA1L4ZTA	TRANSISTOR	[M]
18	RGW0238-K	MAIN VOLUME KNOB	[M]	58	XTW3+15T	POWERICSCREW		Q204	2SC1740SRTA	TRANSISTOR	
19	RGZX0021A-K	MECHABUTTON (L)	[M]	59	RFKNACH34PK	HOLDER ARM ASS'Y	[M]	Q205	2SK301QTA	TRANSISTOR	[M]
20	RGZX0021B-K	MECHABUTTON (R)	[M]	60	RME0221	HOLDER ARM SPRING	[M]	Q206	2SC2785FTA	TRANSISTOR	
21	RHD30007	CABINETSCREW		61	RMN0350	8 LED HOLDER	[M]	Q207	2SD1450STA	TRANSISTOR	1
22	RHD30048	CDMECHANISMSCREW	IM					Q301	BA1F4MTA	TRANSISTOR	[M]
23	RKFX0048-K	CASSETTE LID (L)	[M]			INTEGRATED CIRC	UITS	Q302	BA1F4MTA	TRANSISTOR	[M]
24	RKFX0049-K	CASSETTE LID (R)	[M]					Q303	2SC2001L1TA	TRANSISTOR	1
25	RKM0309-K	CHANGERCHASSIS	[M]	IC1	LA1832A	IC, IF/MPX		Q304	2SC2001L1TA	TRANSISTOR	
26	RKM0310-K	TOPCABINET	[M]	IC2	LC7218	IC, PLL	+	Q305	2SC2001L1TA	TRANSISTOR	
20	RKW0414-Q	SENSORWINDOW	[M]	IC301				Q306	2SC1685RTA	TRANSISTOR	[M]
28	RKW0414-Q	CHANGERWINDOW	[M]	↓	BU2090F-E2	IC, IO EXPANDER	[M]	Q308	2SC2785FTA	TRANSISTOR	
20	RKW0416B-Q	FLWINDOW	[M]		BH3854AFS-E2			Q309	2SC1740SRTA	TRANSISTOR	
30	RKWX0076-Q	CASSETTE LID WIN (L)			AN7345K	IC, REC PLAYBACK	[M]	Q310	BN1A4MTA	TRANSISTOR	[M]
	+	CASSETTE LID WIN (P)		{	BA7755A	IC, SWITCH	+	Q311	BN1A4MTA	TRANSISTOR	[M]
31	RKWX0077-Q	REAR SUPPORT ANGLI	+	1	BA4558FDXE2	IC, OP AMP	[M]	Q312		TRANSISTOR	Λ
32 33	RMAX0006	ANGLE PLATE	[M]	↓	AN78M05	IC, 5V REGLILATOR		Q313		TRANSISTOR	[M]

	r	r				T				r	
Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No	Part No.	Part Name & Description	Remarks
Q314	2SD2037ETA	TRANSISTOR	[M]	D306	RVDMTZ4R7BTA	DIODE				SWITCHES	
Q315	2SC2001KTA	TRANSISTOR	Â	D307	RVD1SS133TA	DIODE					
Q316	BA1L3ZTA	TRANSISTOR	[M]	D309	MTZJ8R2BTA	DIODE	[M] <u>/</u>	S601	RSH1A004-1	SW, PLAY (DECK1)	[M]
Q317	BN1L3NTA	TRANSISTOR	[M]	D310	RVD1SS133TA	DIODE		S602	RSH1A004-1	SW, F/R (DECK1)	[M]
Q318	2SC2785FTA	TRANSISTOR		D311	RVD1SS133TA	DIODE		S603	RSH1A004-1	SW, REC (DECK1)	[M]
Q319	2SC2001KTA	TRANSISTOR	Λ	D312	RVD1SS133TA	DIODE		S604	RSH1A004-1	SW, PLAY (DECK 2)	[M]
Q321	2SC2784FTA	TRANSISTOR	[M]	D313	1D3E	DIODE	[M]	S605	RSH1A004-1	SW, F/R (DECK 2)	[M]
Q322	2SC2001KTA	TRANSISTOR	Â	D314	1D3E	DIODE	[M]	S606	RSH1A013-2I	SW, MOTOR (DECK 1)	[M]
Q323	BA1F4MTA	TRANSISTOR	[M]	D315	1D3E	DIODE	[M]	S607	RSH1A013-21	SW, MOTOR (DECK 2)	[M]
Q324	BA1F4MTA	TRANSISTOR	[M]	D316	RVDMTZ10BTA	DIODE		S801	EVQ21405R	SW, POWER	
Q330	2SD2037ETA	TRANSISTOR	[M] <u>/</u>	D317	RVDMTZ10BTA	DIODE		S802	EVQ21405R	SW, TIMER	
Q331	2SD2037ETA	TRANSISTOR	[M] <u>/</u>	D318	RVDMTZ10BTA	DIODE		S803	EVQ21405R	SW, EASY EDIT	
Q501	2SC2785FTA	TRANSISTOR		D319	RVD1SS133TA	DIODE		S804	EVQ21405R	SW, RANDOM	
Q502	2SD1762E	TRANSISTOR	[M] 🕂	D320	MTZJ6R2CTA	DIODE	Â	S805	EVQ21405R	SW, REPEAT	
Q503	2SC2785FTA	TRANSISTOR		D321	RVDMTZ5R6BTA	DIODE	Â	S807	EVQ21405R	SW, STOP	
Q504	2SA933SSTA	TRANSISTOR		D322	RVD1SS133TA	DIODE		S808	EVQ21405R	SW, AUX	
Q505	2SD1762E	TRANSISTOR	[M] <u>/</u>	D323	RVD1SS133TA	DIODE		S809	EVQ21405R	SW, TUNER/BAND	
Q506	2SC2785FTA	TRANSISTOR		D390	RVD1SS133TA	DIODE		S810	EVQ21405R	SW, CD	
Q507	2SB1357ETA	TRANSISTOR	[M] <u>/</u>	D398	RVDMTZ13BTA	DIODE	Â	S811	EVQ21405R	SW, TAPE	
Q601	2SK381CTA	TRANSISTOR		D501	1D3E	DIODE	[M]	S812	EVQ21405R	SW, REV	
Q602	BA1L4ZTA	TRANSISTOR	[M]	D502	1D3E	DIODE	[M]	S813	EVQ21405R	SW, FWD	
Q603	2SD965RTA	TRANSISTOR		D503	1N5402BM21	DIODE	Â	S814	EVQ21405R	SW, PLAY FWD	
Q604	BN1L4MTA	TRANSISTOR	[M]	D504	1N5402BM21	DIODE	Â	S815	EVQ21405R	SW, PAUSE	
Q605	BA1L4ZTA	TRANSISTOR	[M]	D505	1N5402BM21	DIODE	Â	S817	EVQ21405R	SW, TIMER/CLOCK	
Q606	BA1L4ZTA	TRANSISTOR	[M]	D506	1N5402BM21	DIODE	Â	S818	EVQ21405R	SW, SOFT	
Q901	2SC2785FTA	TRANSISTOR		D507	MTZJ12BTA	DIODE		S819	EVQ21405R	SW, HEAVY	
Q902	2SC2785FTA	TRANSISTOR		D508	RVD1SR35TR	DIODE		S820	EVQ21405R	SW, CLEAR	
Q903	2SC2785FTA	TRANSISTOR		D509	RVD1SR35TR	DIODE		S821	EVQ21405R	SW, FLAT	
Q904	2SC2785FTA	TRANSISTOR		D516	MTZJ15CTA	DIODE		S822	EVQ21405R	SW, V. BASS	
Q905	2SC2785FTA	TRANSISTOR		D517	MTZJ15BTA	DIODE	[M]	S823	EVQ21405R	SW, TAPE EDIT	
Q906	2SC2785FTA	TRANSISTOR		D518	RVDMTZ11BTA	DIODE	Â	S824	EVQ21405R	SW, CD OPEN/CLOSE	
Q907	2SC2785FTA	TRANSISTOR		D601	RVD1SS133TA	DIODE		S825	EVQ21405R	SW, CD DISC CHECK	
Q908	BA1L4LTA	TRANSISTOR	[M]	D602	RVD1SS133TA	DIODE		S826	EVQ21405R	SW, DISC 5	
				D901	SLR505DCT31	DIODE	[M]	S827	EVQ21405R	SW, DISC 4	
		DIODES		D902	SLR505DCT31	DIODE	[M]	S828	EVQ21405R	SW, DISC 3	
				D903	SLR505DCT31	DIODE	[M]	S829	EVQ21405R	SW, DISC 2	
D1	SVC211SPA-AL	DIODE		D904	SLR505DCT31	DIODE	[M]	S830	EVQ21405R	SW, DISC 1	
D2	SVC211SPA-AL	DIODE		D905	SLR505DCT31	DIODE	[M]				
D3	SVC211SPA-AL	DIODE		D907	1SS291TA	DIODE				CONNECTORS	
D4	MTZJ5R1CTA	DIODE	[M]	D908	RVD1SS133TA	DIODE					
D5	RVD1SS133TA	DIODE		D909	RVD1SS133TA	DIODE		CN1	RJU063W07T	7P CONNECTOR	
D101	RVD1SS133TA	DIODE		D910	RVD1SS133TA	DIODE		CN2	RJU063W07T	7P CONNECTOR	
D201	RVD1SS133TA	DIODE		D911	MTZJ6R8BTA	DIODE		CN502	RJU005A012	12P CONNECTOR SOC	
D301	MTZJ8R2BTA	DIODE	[M]					CN503	RJU005A012	12P CONNECTOR SOC	
D302	MTZJ8R2BTA	DIODE	[M] <u>/</u>			VARIABLE RESISTO	RS	CN504	RJS1A5205	5P CONNECTOR	[M]
D303	RVD1SS133TA	DIODE						CN601	RJS10T6ZA	10 CONNECTOR	[M]
	RVD1SS133TA	DIODE		VB601	EVNDXAA00B24	VR, HISPEED		CN801	RJU071H09M	9PINB-BCONNECTOR	
D304	INVD1331331A	0.002	I			1 1	· ·		·	1	

Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
CN804	RJS1A6223-1	23 PIN FFC CONNECTOR				DISPLAY TUBE		A2	RQT3302-P	INSTRUCTION MANUAL	[M](P)
		7 PIN B-BCONNECTOR						AЗ	RSA0006	FMANTENNA	
		7 PIN B-BCONNECTOR		FI 801	RSL0217-F	FLDISPLAY	[M]	A4	RSA0010	AM LOOP ANT	
		20PB-BCONNECTOR	[M]					A5	SJA172	ACCORD	(SF)
			[M]			EARTH TERMINAL					
			[ivi]							<loading motor=""></loading>	
		4 PIN CONNECTOR 7 PIN CONNECTOR		E500	SNE1004-2	EARTHTERMINAL				INTEGRATED CIRCU	
				2000							
		12 PINB-BCONNECTOR				RELAY		IC1	BA6418N	IC, MOTOR DRIVER	
	RJT005W012										
	RJP6G18ZA	SOCKET			RSY0017-0	CD CHANGER RELAY	[M] /			SWITCHES	
		9PB-BCONNECTOR			N310017-0		[m] \T				<u> </u>
	RJT077K20		[M]			FUSES		S1	RSH1A005	SW, LEAF	
CP804	RJT077K20	20P B-B CONNECTOR	[M]			FUSES		S2	RSH1A032-U	SW, MECHA	
							n n A				
		COILS & TRANSFOR	MERS	F1	XBA1C20NBAL	FUSE	[M] <u>^</u>	53	RSH1A032-U	SW, MECHA	
								S4	RSH1A005	SW, LEAF	
L1	RLQZP1R2KT-Y	AXIALCOIL				FUSE CLIPS		S5	RSH1A032-U	SW, MECHA	
L2	RLQZPR47KT-Y	COIL					ļ				
L3	RLQZPR47KT-Y	COIL		FC1	SJT388	FUSE CLIP				CONNECTOR	
L4	ELEPKR68MA	RF CHOKE COIL		FC2	SJT388	FUSECLIP		IL			
L5	ELEPKR68MA	RF CHOKE COIL						CN1	RJS1A6714	CONNECTOR 14P	
L8	RLQZP1R0KT-Y	AXIAL COIL				JACKS					
L301	RLQZB470KT-D	INDUCTOR								<servo p.c.b.=""></servo>	
L601	RLQY10S3-0	COIL		JK1	RJH5302	JK, ANTENNA TERMINAL	[M]			INTEGRATED CIRC	UITS
L901	RLQZP3R3KT-Y	COIL		JK2	SJS208	JK, AM LOOP ANT TER					
L902	RLQZP3R3KT-Y	COIL		JK301	RJH3209N	JK, LINE-IN	[M]	IC701	AN8835SBE1	IC, SERVO AMP.	
T301	RL08C004-T	BIAS OSC COIL	[M]	JK500	SJSD16	JK, AC INLET	Â	IC702	MN662741RPA	IC, DIGITAL LSI	
T501	RTP1M3C010-X	POWERTRANSFORMER	[M] /	JK501	RJR0054	JK, SP TERMINAL		IC703	AN8389SE1	IC, COIL/MOTOR DRIVI	E
				JK801	RJJ37TK04-C	JK, HEAD PHONE					
		COMPONENT COMBI	NATION							TRANSISTOR	
						WIRE					
Z1	RLA2Z002M-T	AMANT.COIL						Q701	2SB709S	TRANSISTOR	
Z2	RLI2Z006M-T	AMIFT		W501	REXX0125	5P WIRE (POWER)	[M]	1			
Z801	RCDHC-278N	SENSOR		┨┝────				1		SWITCH	
2001				1		PACKING MATERIA	LS	1			
		CERAMIC FILTERS	+	1				S701	RSM0006-P	SW, RESET	
		CERTAINIO FIETEITO			RPF0100	MIRAMAT SHEET	[M]	1			
	D. 5557404044	FN OF			RPGX0239	GIFT BOX	[M](P)	1		CONNECTORS	-
CF1	RLFFETWNA01			P2	RPGX0240	GIFT BOX	[M](PC)				
CF2	RLFFETWNA01				RPNX0051	POLYFOAM	[M]		1 RJU035T016-1	16 PIN FFCCONNECTO	R
				P3		ACCESSORYCASE	fixil		2 RJS1A6723-1Q		
		OSCILLATORS		P4	SPSD152	VINYL BAG					+
				P5	XZB24X33C04		+			OSCILLATOR	-
X1	RSXZ456KM01	19KHZOSC									
X2	RLFDFT12DD	FMRESONANTOR				ACCESSORIES			00/710100		
ХЗ	SVQ49U722T-S	7.2 MHz X'TAL		-				X701	H5X216M9M01	T CERAMIC OSC	
X9 01	EF0EN6004T4	6 MHZCRYSTAL OSC	[M]	A1	EUR643805	REMOTE CONTROL	[M]	-			
X902	RSXD32K7S02	32KHZCRYSTAL OSC	[M]	A1-1	UR64EC1638-1		R[M]				
				A2	RFKSACH34PCI	INST. MANUAL ASS'Y	[M](PC)		1		

Resistors & Capacitors

Notes : • Important safety notice:

Components identified by A mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. Purifiermore, special parts which have purposes of interferation (resistors), high-quality sound (capacitors), to When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.
[M] indicates in Remarks column parts that are supplied by **MESA**.
Capacitor values are in microfarad (μF) unless specified otherwise, P=Pico-farads (pF) F=Farads (F)
Resistors values are in ohms, unless specified otherwise, 1k=1,000(OHM), 1M=1,000k(OHM)

Ref No.	Part No.	Values &	k Remarks	Ref No	Part No.	Values	& Remarks	Ref No	Part No.	Values of	& Remarks	Ref No	Part No.	Values a	& Remarks
	RESISTORS			R57	ERDS2TJ103T	10K	1/4W	R206	ERDS2TJ682T	6.8K	1/4W	R322	ERDS2TJ225T	2.2M	1/4W
				R58	ERDS2TJ103T	10K	1/4W	R211	ERDS2TJ183T	18K	1/4W	R323	ERDS2TJ103T	10K	1/4W
R1	ERDS2TJ104T	100K	1/4W	R60	ERDS2TJ563T	56K	1/4W	R213	ERDS2TJ822T	8.2K	1/4W	R324	ERDS2TJ334T	330K	1/4W
R2	ERDS2TJ104T	100K	1/4W	R61	ERDS2TJ102T	1K	1/4W	R214	ERDS2TJ472T	4.7K	1/4W	R325	ERDS2TJ334T	330K	1/4W
R3	ERDS2TJ221T	220	1/4W	R63	ERDS2TJ102T	1K	1/4W	R215	ERDS2TJ561T	560	1/4W	R328	ERD25FVJ4R7T	4.7	1/4W
R4	ERDS2TJ104T	100K	1/4W	R64	ERDS2TJ820T	82	1/4W	R216	ERDS2TJ820T	82	1/4W	R329	ERDS2TJ472T	4.7K	1/4W
R5	ERDS2TJ564T	560K	1/4W	R65	ERDS2TJ103T	10K	1/4W	R217	ERDS2TJ181T	180	1/4W	R330	ERDS2TJ472T	4.7K	1/4W
R6	ERDS2TJ391T	390	1/4W	R101	ERDS2TJ473T	47K	1/4W	R218	ERDS2TJ102T	1K	1/4W	R331	ERDS2TJ102T	1K	1/4W
R7	ERDS2TJ272T	2.7K	1/4W	R102	ERDS2TJ103T	10K	1/4W	R219	ERDS2TJ223T	22K	1/4W	R332	ERDS2TJ272T	2.7K	1/4W
R8	ERDS2TJ684T	680K	1/4W	R103	ERDS2TJ473T	47K	1/4W	R220	ERDS2TJ562T	5.6K	1/4W	R333	ERDS2TJ332T	3.3K	1/4W
R9	ERDS2TJ391T	390	1/4W	R104	ERDS2TJ103T	10K	1/4W	R221	ERDS2TJ223T	22K	1/4W	R334	ERDS2TJ103T	10K	1/4W
R10	ERDS2TJ391T	390	1/4W	R105	ERDS2TJ103T	10K	1/4W	R222	ERDS2TJ121T	120	1/4W	R335	ERDS2TJ472T	4.7K	1/4W
R11	ERDS2TJ684T	680K	1/4W	R106	ERDS2TJ682T	6.8K	1/4W	R223	ERDS2TJ823T	82K	1/4W	R336	ERDS2TJ103T	10K	1/4W
R15	ERDS2TJ181T	180	1/4W	R111	ERDS2TJ183T	18K	1/4W	R225	ERDS2TJ392T	3.9K	1/4W	R337	ERDS2TJ472T	4.7K	1/4W
R16	ERDS2TJ102T	1K	1/4W	R113	ERDS2TJ822T	8.2K	1/4W	R226	ERDS2TJ104T	100K	1/4W	R338	ERDS2TJ102T	1K	1/4W
R17	ERDS2TJ331T	330	1/4W	R114	ERDS2TJ472T	4.7K	1/4W	R227	ERDS2TJ182T	1.8K	1/4W	R340	ERDS2TJ472T	4.7K	1/4W
R18	ERDS2TJ471T	470	1/4W	R115	ERDS2TJ561T	560	1/4W	R228	ERDS2TJ472T	4.7K	1/4W	R341	ERDS2TJ272T	2.7K	1/4W
R19	ERDS2TJ224T	220K	1/4W	R116	ERDS2TJ820T	82	1/4W	R229	ERDS2TJ152T	1.5K	1/4W	R342	ERDS2TJ392T	3.9K	1/4W
R20	ERDS2TJ562T	5.6K	1/4W	R117	ERDS2TJ181T	180	1/4W	R232	ERDS2TJ471T	470	1/4W	R343	ERDS2TJ151T	150	1/4W
R21	ERDS2TJ822T	8.2K	1/4W	R118	ERDS2TJ102T	1K	1/4W	R234	ERDS2TJ623T	62K	1/4W	R344	ERDS2TJ105T	1M	1/4W
R22	ERDS2TJ473T	47K	1/4W	R119	ERDS2TJ223T	22K	1/4W	R235	ERDS2TJ103T	10K	1/4W	R345	ERDS2TJ474T	470K	1/4W
R23	ERDS2TJ332T	3.3K	1/4W	R120	ERDS2TJ562T	5.6K	1/4W	R238	ERDS2TJ222T	2.2K	1/4W	R346	ERDS2TJ473T	47K	1/4W
R24	ERDS2TJ472T	4.7K	1/4W	R121	ERDS2TJ223T	22K	1/4W	R245	ERDS2TJ104T	100K	1/4W	R348	ERDS2TJ105T	1M	1/4W
R25	ERDS2TJ271T	270	1/4W	R122	ERDS2TJ121T	120	1/4W	R291	ERDS2TJ822T	8.2K	1/4W	R349	ERDS2TJ223T	22K	1/4W
R26	ERDS2TJ471T	470	1/4W	R123	ERDS2TJ823T	82K	1/4W	R299	ERDS2TJ103T	10K	1/4W	R350	ERDS2TJ334T	330K	1/4W
R27	ERDS2TJ272T	2.7K	1/4W	R125	ERDS2TJ392T	3.9K	1/4W	R303	ERDS2TJ472T	4.7K	1/4W	R351	ERDS2TJ223T	22K	1/4W
R28	ERDS2TJ473T	47K	1/4W	R126	ERDS2TJ104T	100K	1/4W	R304	ERDS2TJ103T	10K	1/4W	R352	ERDS2TJ331T	330	1/4W
R29	ERDS2TJ680T	68	1/4W	R127	ERDS2TJ182T	1.8K	1/4W	R305	ERDS2TJ103T	10K	1/4W	R353	ERDS2TJ103T	10K	1/4W
R41	ERDS2TJ102T	1K	1/4W	R128	ERDS2TJ472T	4.7K	1/4W	R306	ERDS2TJ393T	39K	1/4W	R354	ERDS2TJ151T	150	1/4W
R42	ERDS2TJ102T	1K	1/4W	R129	ERDS2TJ152T	1.5K	1/4W	R307	ERDS2TJ122T	1.2K	1/4W	R355	ERDS1FVJ100T	10	1/2W
R45	ERDS2TJ102T	1K	1/4W	R132	ERDS2TJ471T	470	1/4W	R308	ERDS2TJ222T	2.2K	1/4W	R356	ERDS1FVJ100T	10	1/2W
R46	ERDS2TJ104T	100K	1/4W	R134	ERDS2TJ623T	62K	1/4W	R309	ERDS2TJ222T	2.2K	1/4W	R357	ERDS1FVJ100T	10	1/2W
R47	ERDS2TJ562T	5.6K	1/4W	R135	ERDS2TJ103T	10K	1/4W	R310	ERDS2TJ102T	1K	1/4W	R358	ERDS2TJ560T	56	1/4W
R48	ERDS2TJ391T	390	1/4W	R138	ERDS2TJ222T	2.2K	1/4W	R311	ERDS2TJ332T	3.3K	1/4W	R359	ERDS2TJ821T	820	1/4W
R49	ERDS2TJ561T	560	1/4W	R145	ERDS2TJ104T	100K	1/4W	R312	ERDS2TJ152T	1.5K	1/4W	R360	ERD25FVJ180T	18	1/4W
R50	ERDS2TJ102T	1K	1/4W	R191	ERDS2TJ822T	8.2K	1/4W	R313	ERDS2TJ334T	330K	1/4W	R361	ERD25FVJ180T	18	1/4W
R51	ERDS2TJ103T	10K	1/4W	R199	ERDS2TJ103T	10K	1/4W	R314	ERDS2TJ334T	330K	1/4W	R362	ERD25FVJ180T	18	1/4W
R52	ERDS2TJ102T	1K	1/4W	R201	ERDS2TJ473T	47K	1/4W	R315	ERDS2TJ223T	22K	1/4W	R363	ERDS2TJ333T	ззк	1/4W
R53	ERDS2TJ102T	1K	1/4W	R202	ERDS2TJ103T	10K	1/4W	R316	ERDS2TJ103T	10K	1/4W	R364	ERDS2TJ183T	18K	1/4W
R54	ERDS2TJ102T	1K	1/4W	R203	ERDS2TJ473T	47K	1/4W	R318	ERDS2TJ221T	220	1/4W		ERDS2TJ102T	1K	1/4W
R55	ERDS2TJ102T	1K	1/4W	R204	ERDS2TJ103T	10K	1/4W	R320	ERDS2TJ562T	5.6K	1/4W		ERDS2TJ183T	18K	1/4W
	ERDS2TJ102T		1/4W		ERDS2TJ103T	10K	1/4W		ERDS2TJ103T	10K	1/4W		ERDS2TJ472T		1/4W

Ref No	Part No.	Values &	Remarks	Ref No.	Part No.	Values &	& Remarks	Ref No.	Part No.	Values &	Remarks	Ref No.	Part No.	Values & l	Remarks
R369	ERDS1FVJ2R2T	2.2	1/2W 🕅	R522	ERDS1FVJ1R0T	1	1/2W	R829	ERDS2TJ272T	2.7K	1/4W	R938	ERDS2TJ223T	22K 1	1/4W
	ERDS1FVJ331T		1/2W	R524	ERDS1FVJ560T	56	1/2W	R831	ERDS2TJ102T	1K	1/4W	R939	ERDS2TJ223T	22K	1/4W
	ERDS2TJ181T		1/4W	R525	ERDS1FVJ560T	56	1/2W	R832	ERDS2TJ102T	1K	1/4W	R940	ERDS2TJ103T	10K	1/4W
	ERDS2TJ182T	1.8K	1/4W	R526	ERDS1FVJ560T	56	1/2W	R833	ERDS2TJ122T	1.2K	1/4W	R941	ERDS2TJ103T	10K -	1/4W
	ERDS2TJ153T	15K	1/4W	R527	ERDS2TJ152T	1.5K	1/4W	R834	ERDS2TJ182T	1.8K	1/4W	R942	ERDS2TJ103T	10K	1/4W
	ERDS2TJ102T	1K	1/4W	R528	ERDS2TJ151T	150	1/4W	R835	ERDS2TJ222T	2.2K	1/4W	R944	ERDS2TJ472T	4.7K	1/4W
R377	ERDS2TJ101T	100	1/4W	R529	ERG1SJ100E	10	1W 🔥	R836	ERDS2TJ272T	2.7K	1/4W	R945	ERDS2TJ472T	4.7K	1/4W
R380	ERDS2TJ222T	2:2K	1/4W	R530	ERDS2TJ331T	330	1/4W	R837	ERDS2TJ472T	4.7K	1/4W	R946	ERDS2TJ472T	4.7K	1/4W
R381	ERDS2TJ1R0T	1	1/4W	R531	ERDS2TJ151T	150	1/4W	R841	ERDS2TJ102T	1K	1/4W	R947	ERDS2TJ472T	4.7K	1/4W
R382	ERD25FVJ180T	18	1/4W	R532	ERDS2TJ682T	6.8K	1/4W	R842	ERDS2TJ102T	1K	1/4W	R948	ERDS2TJ472T	4.7K	1/4W
R383	ERDS2TJ331T	330	1/4W	R533	ERDS2TJ472T	4.7K	1/4W	R843	ERDS2TJ122T	1.2K	1/4W	R949	ERDS2TJ104T	100K	1/4W
R384	ERDS1FVJ100T	10	1/2W	R536	ERDS1FVJ1R0T	1	1/2W	R844	ERDS2TJ182T	1.8K	1/4W	R950	ERDS2TJ104T	100K	1/4W
R385	ERDS2TJ333T	33K	1/4W	R537	ERDS2TJ151T	150	1/4W	R845	ERDS2TJ222T	2.2K	1/4W	R951	ERDS2TJ104T	100K	1/4W
R386	ERDS2TJ393T	39K	1/4W	R539	ERDS1FVJ101T	100	1/2W	R846	ERDS2TJ272T	2.7K	1/4W	R965	ERDS2TJ471T	470	1/4W
R387	ERDS2TJ272T	2.7K	1/4W	R544	ERDS2TJ151T	150	1/4W	R901	ERDS2TJ563T	56K	1/4W	R966	ERDS2TJ473T	47K	1/4W
R388	EBDS2TJ102T	1K	1/4W	R550	ERX1ANJP5R6	5.6	1W /	R902	ERDS2TJ223T	22K	1/4W	R967	ERDS2TJ473T	47K	1/4W
R389	ERDS2TJ103T	10K	1/4W	R601	ERDS2TJ153T	15K	1/4W	R903	ERDS2TJ334T	330K	1/4W	R968	ERDS2TJ102T	1K	1/4W
R390	ERDS2TJ1R2T	1.2	1/4W	R602	ERDS2TJ273T	27K	1/4W	R905	ERDS2TJ472T	4.7K	1/4W	R969	ERDS2TJ102T	1K	1/4W
R391	ERDS2TJ1R2T	1.2	1/4W	R603	ERDS2TJ273T	27K	1/4W	R907	ERDS2TJ681T	680	1/4W	R972	ERDS2TJ102T	1K	1/4W
R393	ERDS2TJ122T	1.2K	1/4W	R605	ERDS2TJ2R7T	2.7	1/4W	R908	ERDS2TJ472T	4.7K	1/4W	R974	ERDS2TJ102T	1K	1/4W
R394	ERDS2TJ222T	2.2K	1/4W	R606	ERDS2TJ221T	220	1/4W	R909	ERDS2TJ106T	10M	1/4W	R975	ERDS2TJ102T	1K	1/4W
R395	ERDS2TJ152T	1.5K	1/4W	R607	ERDS2TJ103T	10K	1/4W	R910	ERDS2TJ102T	1K	1/4W	R976	ERDS2TJ102T	1K	1/4W
B397	ERDS2TJ332T	3.3K	1/4W	R608	ERDS2TJ153T	15K	1/4W	R911	ERDS2TJ102T	1K	1/4W	R977	ERDS2TJ102T	1K	1/4W
R398	ERDS2TJ223T	22K	1/4W	R609	ERDS2TJ103T	10K	1/4W	R912	ERDS2TJ101T	100	1/4W	R978	ERDS2TJ123T	12K	1/4W
R399	ERDS1FVJ220T	22	1/2W /	R610	ERDS2TJ103T	10K	1/4W	R913	ERDS2TJ101T	100	1/4W	R979	ERDS2TJ223T	22K	1/4W
R401	ERDS2TJ103T	10K	1/4W	R611	ERDS2TJ102T	1K	1/4W	R914	ERDS2TJ103T	10K	1/4W	R980	ERDS2TJ123T	12K	1/4W
R500	ERDS1TJ335	3.3M	1/2W /	R612	ERDS2TJ473T	47K	1/4W	R916	ERDS2TJ473T	47K	1/4W	R981	ERDS2TJ223T	22K	1/4W
B501	ERDS2TJ822T	8.2K	1/4W	R613	ERDS2TJ473T	47K	1/4W	R917	ERDS2TJ102T	1K	1/4W	R982	ERDS2TJ820T	82	1/4W
R502		8.2K	1/4W	R614	ERDS2TJ103T	10K	1/4W	R918	ERDS2TJ102T	1K	1/4W	R983	ERDS2TJ820T	82	1/4W
R503		15K	1/4W		ERDS2TJ153T	15K	1/4W	R919	ERDS2TJ102T	1K	1/4W	R984	ERDS2TJ820T	82	1/4W
R504		15K	1/4W	R616	ERDS2TJ103T	10K	1/4W		ERDS2TJ102T	1K	1/4W	R985	ERDS2TJ820T	82	1/4W
		6.8K	1/4W	R617	ERDS2TJ103T	10K	1/4W		ERDS2TJ102T	1K	1/4W	R986	ERDS2TJ820T	82	1/4W
R505		6.8K	1/4W	R618		1K	1/4W	R922		1K	1/4W	R987	ERDS2TJ820T	82	1/4W
R506		68K	1/4W	R619	ERDS2TJ473T	47K	1/4W	{├───	ERDS2TJ102T	1K	1/4W	R988	ERDS2TJ820T	82	1/4W
R507		68K	1/4W	R620	ERDS2TJ105T	1M	1/4W	R924		1K	1/4W	R989	ERDS2TJ820T	82	1/4W
R508		10	1/2W	R623		39K	1/4W	R925	ERDS2TJ103T	10K	1/4W	R995	ERDS2TJ821T	820	1/4W
R509		10	1/2W	R811	ERDS2TJ102T	1K	1/4W	R926		10K	1/4W	R996	ERDS2TJ821T	820	1/4W
	ERDS1FVJ100T ERDS2TJ823T	82K	1/4W	R812		1K	1/4W	R927		100K	1/4W	R997	ERDS2TJ821T	820	1/4W
			1/4W	R813		1.2K		11	ERDS2TJ561T	560	1/4W	R998	ERDS2TJ821T	820	1/4W
R512			1/4W	R814		1.8K		R929		100K	1/4W	R999	ERDS2TJ821T	820	1/4W
R513				R815		2.2K		R930		100	1/4W			1	
	ERDS2TJ563T	56K	1/4W 1/4W	R821		1K	1/4W		ERDS2TJ101T	100	1/4W	1	CAPACITORS		
R515		10K		R822		1K	1/4W	R932		100	1/4W	1		1	
	ERD25FVJ470T	47 56V	1/4W	-		1.2K		R933		100	1/4W	C1	ECBT1H5R6KC5	5.6P	50V
R517		56K	1/4W	R823		1.2K		R934		100 10K	1/4W		RCBS1H102KBY		
R518			1/2W	R824		2.2K		R935		10K	1/4W	C3	ECBT1H2R2KC5		50V
R519			1/2W	`	ERDS2TJ222T ERDS2TJ272T	2.2K		R936		10K	1/4W	C4	ECBT1H181KB5	-	50V
R520		10	1W	4			1/4VV	R937		10K	1/4W	C5	ECBT1H5R6KC5	-	
R521	ERDS1FVJ152T	1.5K	1/2W	H827	ERDS2TJ472T	4./K	1/477			IUN	1/*** ¥ ¥			10.01	

Ref No.	Part No.	Values & Remar	s Ref No	Part No.	Values	& Remarks	Ref No	. Part No.	Values a	& Remarks	Ref No	Part No.	Values d	& Remarks
C6	ECBT1H3R3KC5	3.3P 50V	C102	ECBT1H101KB5	100P	50V	C223	ECBT1H821KB5	820P	50V	C342	ECEA1HU010B	1	50V
C7	ECBT1H4R7KC5	4.7P 50V	C103	ECBT1H102KB5	1000F	950V	C224	ECBT1H102KB5	1000F	950V	C343	ECEA1CU470B	47	16V
C8	ECBT1H3R3KC5	3.3P 50V	C104	ECEA1EU100B	10	25V	C225	ECBT1C472MR5	4700F	16V	C344	ECKR1H103ZF5	0.01	50V
C9	ECBT1H2R2KC5	2.2P 50V	C105	ECEA1HU100B	10	50V	C227	ECBT1H270J5	27P	50V	C345	ECEA1HU010B	1	50V
C10	ECBT1H180JC5	18P 50V	C106	ECFR1C104KR	0.1	16V	C228	ECBT1H101KB5	100P	50V	C346	ECKR1H103ZF5	0.01	50V
C11	RCBS1H102KBY	1000P 50V	C107	ECFR1C563KR	0.056	16V	C230	ECEA1HU220B	22	50V	C347	ECEA1CU330B	33	16V
C15	ECBT1C103MS5	0.01 16V	C108	ECBT1C103MS5	0.01	16V	C231	ECEA1HUR68	0.68	50V	C348	ECKR1H103ZF5	0.01	50V
C16	ECEA1CU220B	22 16V	C109	ECEA1EU4R7B	4.7	25V	C232	ECBT1H101KB5	100P	50V	C349	ECEA1CU330B	33	16V
C17	ECBT1C103MS5	0.01 16V	C111	ECBT1H331KB5	330P	50V	C233	ECEA1HUR33B	0.33	50V	C350	ECEA1HU4R7B	4.7	50V
C18	ECBT1H102KB5	1000P 50V	C112	ECBT1H331KB5	330P	50V	C291	ECBT0J153MS5	0.015	6.3V	C351	ECEA1CU221B	220	16V
C19	ECBT1C103MS5	0.01 16V	C113	ECEA0JU101B	100	6.3V	C301	ECBT1C103MS5	0.01	16V	C352	ECKR1H103ZF5	0.01	50V
C20	ECEA1HKA3R3B	3.3 50V	C114	ECFR1C183KR	0.018	16V	C302	ECBT1C103MS5	0.01	16V	C353	ECEA1HU3R3B	3.3	50V
C21	ECEA0JU101B	100 6.3V	C115	ECEA1HU010B	1	50V	C303	ECBT1C103MS5	0.01	16V	C354	ECEA1HU330B	33	50V
C22	ECBT1C103MS5	0.01 16V	C116	ECFR1C223MR	0.022	16V	C304	ECBT1C103MS5	0.01	16V	C355	ECKR1H103ZF5	0.01	50V
C23	ECEA1CU220B	22 16V	C117	ECEA0JU101B	100	6.3V	C305	ECBT1H101KB5	100P	50V	C356	ECKR1H103ZF5	0.01	50V
C24	ECBT1H473ZF5	0.047 50V	C119	ECBT1C332MR5	3300P	16V	C306	ECBT1H101KB5	100P	50V	C357	ECEA1VU101B	100	10V
C25	ECEA1HKA4R7B	4.7 50V	C120	ECBT1H221KB5	220P	50V	C307	ECBT1H101KB5	100P	50V	C358	ECKR1H103ZF5	0.01	50V
C26	ECBT1C822MS5	8200P 16V	C121	ECBT1H102KB5	1000P	50V	C308	ECEA1CU100B	10	16V	C359	ECEA1AU470B	47	10V
C27	ECQP2A821JZT	820P 100V	C122	ECEA1HU4R7B	4.7	50V	C309	ECEA1AU471B	470	10V	C362	ECEA1HU010B	1	50V
C28	ECEA1HKA010B	1 50V	C123	ECBT1H821KB5	820P	50V	C310	ECEA1HUR22B	0.22	50V	C363	ECKR1H103ZF5	0.01	50V
C29	ECFR1C273KR	0.027 16V	C124	ECBT1H102KB5	1000P	50V	C311	ECEA1CKA100B	10	16V	C370	ECEA1EU101B	100	25V
C30	ECFR1C273KR	0.027 16V	C125	ECBT1C472MR5	4700P	16V	C312	ECEA1CKA220B	22	16V	C374	ECBT1H104ZF5	0.1	50V
C31	ECBT1H150JC5	15P 50V	C127	ECBT1H270J5	27P	50V	C313	ECEA1CKA100B	10	16V	C375	ECFR1C103KR	0.01	16V
C32	ECBT1C103MS5	0.01 16V	C128	ECBT1H101KB5	100P	50V	C314	ECBT1H221KB5	220P	50V	C376	ECBT1E103ZF5	0.01	25V
C33	ECEA1HKA2R2B	2.2 50V	C130	ECEA1HU220B	22	50V	C315	ECBT1H221KB5	220P	50V	C377	ECBT1H104ZF5	0.1	50V
C34	ECEA1HKA010B	1 50V	C131	ECEA1HUR68	0.68	50V	C316	ECEA1CU100B	10	16V	C378	ECBT1H104ZF5	0.1	50V
C35	ECEA1HKA010B	1 50V	C132	ECBT1H101KB5	100P	50V	C318	ECEA1HU220B	22	50V	C379	ECBT1H104ZF5	0.1	50V
C45	ECEA1EKA4R7B	4.7 25V	C133	ECEA1HUR33B	0.33	50V	C319	ECEA1AU220B	22	10V	C381	ECEA1CU470B	47	16V
C46	ECEA1EKA4R7B	4.7 25V	C191	ECBT0J153MS5	0.015	6.3V	C320	ECFR1C393KR	0.039	16V	C382	ECEA1HU100B	10	50V
C47	ECBT1H473ZF5	0.047 50V	C202	ECBT1H101KB5	100P	50V	C321	ECEA1CU330B	33	16V	C383	ECBT1E103ZF5	0.01	25V
	ECBT1H8R2KC5		1)	ECBT1H102KB5	1000P	50V	C322	ECEA1CU100B	10	16V	C396	ECBT1H104ZF5	0.1	50V
C51	ECBT1C103MS5	0.01 16V	C204	ECEA1EU100B	10	25V	C323	ECBT1C103MS5	0.01	16V	C397	ECEA0JU221B	220	6.3V
	ECEA25M4R7RB	· · · · · · · · · · · · · · · · · · ·	1)	ECEA1HU100B	10	50V		ECEA1CU101B	100	16V	C398	ECFR1C103KR	0.01	16V
	ECBT1C103MS5		1		0.1	16V			0.047			ECEA1EU101B		25V
	ECBT1H180JC5	18P 50V	1	ECFR1C563KR	0.056			ECBT1H102KB5	1000P			ECEA1HKA3R3B		50V
	ECBT1H150JC5	15P 50V	11		0.01	16V		ECBT1H102KB5	1000P			ECEA1HKA3R3B		50V
	ECBT1H102KB5	1000P 50V			4.7	25V		ECBT1C103MS5		16V		ECBT1H102KB5	1000P	
	ECEA0JU101B	100 6.3V	1	ECBT1H331KB5		50V	<u> </u>	ECBT1C103MS5		16V		ECBT1H102KB5	1000P	
	ECBT1H330J5	33P 50V	1	ECBT1H331KB5	330P	50V	}	ECBT1C103MS5		16V		ECBT1H331KB5		50V
	ECBT1H102KB5	1000P 50V	1	ECEA0JU101B	100	6.3V				100V[M]		ECBT1H331KB5		50V
	ECBT1H331KB5	330P 50V			0.018					50V		ECBT1H150J5		50V
	ECEA1CU220B	22 16V	1	ECEA1HU010B	1	50V		ECEA1HU010B	1	50V		ECBT1H150J5		50V
	ECBT1C103MS5		11	ECFR1C223MR	0.022			ECEA1HU010B	1	50V			1	50V
	ECBT1C103MS5	ad to a sub-		ECEA0JU101B		6.3V		ECBT1H102KB5	1000P					50V
		1000P 50V		ECBT1C332MR5					0.01	16V		ECEA1HU330B		50V
		1000P 50V				50V		ECEA1CKA100B		16V		ECEA1HU2R2B		50V
	ECBT1H102KB5	1000P 50V	1		1000P			ECEA1HU010B	1	50V			0.022	
C71	ECBT1H331KB5	330P 50V	C222	ECEA1HU4R7B	4.7	50V	C341	ECBT1C103MS5	0.01	16V	C514	ECKR1H223ZF5	0.022	50V

[D-+21-	Values	k Remarks	Ref No.	Part No.	Values á	z Remarks
Ref No	Part No.	Values &	& Remarks	Ref No.	Part No.	Values 8	z Remarks	Ref No.	Part No.	values c	e Remarks				
C515	ECKR1H103ZF5	0.01	50V	C931	ECBT1H102KB5	1000P	50V		ERJ6GEYJ562V		1/10W		ECUV1C154KBN		16V
C516	ECKR1H103ZF5	0.01	50V	C932	ECEA0JU102B	1000	6.3V		ERJ6GEYJ562V		1/10W	J		0.027	
C517	ECEA1VU222E	2200	10V	C933	ECEA0JU102B	1000	6.3V	R744	ERJ6GEYJ103V	10K	1/10W		ECUZNE104MBN		25V
C518	ECKR1H103ZF5	0.01	50V	C934	ECBT1H102KB5	1000P	50V	R745	ERJ6GEYJ155V	1.5M	1/10W			8200P	
C519	ECKR1H103ZF5	0.01	50V	C944	ECBT1H102KB5	1000P	50V	R748	ERJ6GEYJ182V	1.8K	1/10W		ECUV1C473MBN		
C520	ECKR1H103ZF5	0.01	50V	C945	ECBT1H102KB5	1000P	50V	R749	ERJ6GEYJ682V	6.8K	1/10W	<u></u>	ECUV1H222KBN		
C521	ECKR1H103ZF5	0.01	50V	C946	ECBT1H101KB5	100P	50V	R750	ERJ6GEYJ473V	47K	1/10W		ECUV1H471KBM		
C522	ECEA1VU332E	3300	10V 🛕	C947	ECBT1H101KB5	100P	50V	R751	ERJ6GEYJ473V	47K	1/10W	C749	ECUZNE104MBN	0.1	25V
C523	ECEA1VU222E	2200	10V 🛕	C949	ECEA1AKA470B	47	10V	R752	ERJ8GEYJ220V	22	1/8W		ECUZNE104MBN		25V
C524	ECEA0JU101B	100	6.3V	C950	ECBT1H331KB5	330P	50V	R770	ERJ6GEYJ155V	1.5M	1/10W			1500F	
C528	ECEA1CU331B	330	16V	C951	ECBT1H331KB5	330P	50V	R771	ERJ6GEYJ155V	1.5M	1/10W		ECUV1H471KBM		
C529	ECBT1E103ZF5	0.01	25V	C952	ECEA1CU331B	330	16V	R772	ERJ6GEYJ273V	27K	1/10W	C754	ECUV1H471KBN	470P	50V
C536	ECEA1CU101B	100	16V	C953	ECBT1C103MS5	0.01	16V								
C537	ECBT1E103ZF5	0.01	25V	C997	ECBT1C103MS5	0.01	16V		CAPACITORS				CHIP JUMPERS		
C538	ECEA1CKA470B	47	16V	C998	ECBT1C103MS5	0.01	16V								
C539	ECBT1E103ZF5	0.01	25V	C999	ECBT1C103MS5	0.01	16V	C701	ECEA0JKA330I	33	6.3V	RJ701	ERJ8GEY0R00A	0	1/8W
C602	ECEA1CKA101B	100	16V					C702	ECUZNE104MBN	0.1	25V	RJ702	ERJ8GEY0R00A	0	1/8W
C604	ECBT1H104ZF5	0.1	50V		<servo p.c.b.:<="" td=""><td>></td><td></td><td>C703</td><td>ECEA0JKA101I</td><td>100</td><td>6.3V</td><td>RJ703</td><td>ERJ8GEY0R00A</td><td>0</td><td>1/8W</td></servo>	>		C703	ECEA0JKA101I	100	6.3V	RJ703	ERJ8GEY0R00A	0	1/8W
C850	ECBT1H102KB5	1000F	⊃ 50V		RESISTORS			C704	ECUZNE104MBN	0.1	25V	RJ704	ERJ8GEY0R00A	0	1/8W
C851	ECBT1H102KB5	1000F	P 50V					C705	ECUZNE104MBN	10.1	25V	RJ707	ERJ8GEY0R00A	0	1/8W
C901	ECBT1H561KB5	560P	50V	R701	ERJ6GEYJ4R7V	4.7	1/10W	C706	ECUV1H272KBN	2700	⊃ 50V	RJ709	ERJ8GEY0R00A	0	1/8W
C902	ECBT1H561KB5	560P	50V	R703	ERJ6GEYJ823	82K	1/10W	C707	ECUV1E273KBN	0.027	25V	RJ714	ERJ8GEY0R00A	0	1/8W
C904	ECBT1H102KB5	1000	P 50V	R704	ERJ6GEYJ102V	1K	1/10W	C708	ECUV1H472KBN	4700	⊃ 50V	RJ71	ERJ8GEY0R00A	0	1/8W
C905	ECBT1C103MS5	0.01	16V	R705	ERJ6GEYJ103V	10K	1/10W	C709	ECUV1C473KBN	0.047	' 16V	RJ71	ERJ8GEY0R00A	0	1/8W
C906	ECEA1HKA100B	10	50V	R706	ERJ6GEYJ102V	1K	1/10W	C710	ECUV1H182KBN	1800	P 50V	RJ71	7ERJ8GEY0R00A	0	1/8W
C907	ECBT1C103MS5	0.01	16V	R707	ERJ6GEYJ474V	470K	1/10W	C711	ECUZNE104MB	V 0.1	25V	RJ72	1ERJ8GEY0R00A	0	1/8W
C909		-	50V	R708	ERJ6GEYJ154V	150K	1/10W	C712	ECUZNE104MB	N 0.1	25V	RJ72	2ERJ8GEY0R00A	0	1/8W
C910	ECBT1H680J5	68P	50V	R709	ERJ6GEYJ683V	68K	1/10W	C713	ECUV1C104MBN	1 0.1	16V	RJ72	3ERJ8GEY0R00A	0	1/8W
C911	ECBT1H680J5	68P	50V	R711	ERJ6GEYJ154V	150K	1/10W	C714	ECEA0JKA1011	100	6.3V	RJ72	4ERJ8GEY0R00A	0	1/8W
C912	ECBT1H560J5	56P	50V	R712	ERJ6GEYJ221V	220	1/10W	C716	ECUV1H561KBN	1 560P	50V	RJ72	5ERJ8GEY0R00A	0	1/8W
	ECBT1H560J5	56P	50V	R717	ERJ6GEYJ102V	1K	1/10W	C717	ECUZNE104MBI	V 0.1	25V	RJ72	6ERJ8GEY0R00A	0	1/8W
	ECBT1H102KB5	1000	P 50V	R718	ERJ6GEYJ102V	1K	1/10W	C718	ECUV1C224KBN	0.22	16V	RJ72	7ERJ8GEY0R00A	0	1/8W
	ECBT1H102KB5		P 50V	R719	ERJ6GEYJ102V	1K	1/10W	C721	ECUV1H150JCN	I 15P	50V	RJ72	8ERJ8GEY0R00A	0	1/8W
	ECBT1H220J5	22P	50V	R720	ERJ6GEYJ102V	1K	1/10W	C722	ECUV1H150JCN	I 15P	50V	RJ72	9ERJ8GEY0R00A	0	1/8W
	ECBT1H180J5	18P	50V	R721	ERJ6GEYJ101V	100	1/10W	C723	ECEA1AKA221I	220	10V	RJ73	0ERJ8GEY0R00A	0	1/8W
	ECBT1H101KB5	100P	50V	R722	ERJ6GEYJ563V	56K	1/10W	C724	ECUV1C104MBI	M 0.1	16V				
	ECEA1HKA010E		50V	R723	ERJ6GEYJ182V	1.8K	1/10W	C725	ECUV1H102KB	V 1000	P 50V		TEST JUMPERS	S	
C920			50V	R724	ERJ6GEYJ333V	33K	1/10W	C726	ECUV1H102KB	V 1000	P 50V				
	ECBT1H101KB5		9 50V	R725	ERJ6GEYJ472V	4.7K	1/10W	C727	ECEA1HPK010I	1	50V	TJ70	1 EYF8CU	TES	T JUMPEF
C922				R726		47K	1/10W	C728	ECEA1HPK010	1	50V	ТJ70	2 EYF8CU	TES	T JUMPEF
	ECBT1H561KB5	_		R727			1/10W	C730	ECUZNE 104MB	N 0.1	25V				
	ECBT1H561KB	-		R728			1/10W	C73	ECEA0JKA2211	220	6.3V		<loading mo<="" td=""><td>TOR></td><td></td></loading>	TOR>	
	ECBT1H561KB			R731				C73	ECEA0JKA221	220	6.3V		CAPACITORS		
	ECBT1H561KB			R734			1/10W		BECUZNE 104MB	N 0.1	25V	1			
					5 ERJ6GEYJ101V		1/10W		ECEA1AKA221		10V	C1	ECA1AKF820E	82	10V
C927				R73		_	1/10W	C73			25V	1			· · · · · · · · · · · · · · · · · · ·
C928					BERJ6GEYJ223V		1/10W				25V	1			
	ECBT1C103MS	_			ERJ6GEYJ562V	-			7 ECUZNE104MB		25V	1		-	
C930	ECEA1AKA101	3 100	10V		EN00E10021	5.01	1/1000								