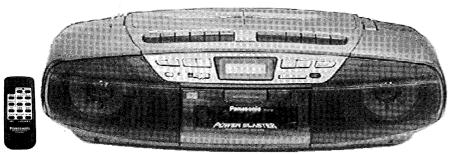
Service Manua Portable Stereo CD System Radio Casse



Radio Cassette RX-DT37 Colour



MASH*

Area	(1) Dia	сктурс
Suffix for Model No.	Area	Colour
(E)	Europe	
(EB)	Great Britain	(K)
(EG)	Germany and Italy	

MASH is a trademark of NTT.

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

Specifications

RADIO

Frequency range FM AM Intermediate Frequency FM AM Sensitivity FM AM

87.50 – 108.00 MHz (50 kHz steps) 522 – 1611 kHz (9 kHz steps)

> 10.7 MHz 459 kHz

17 dB/50 mW 52 dB/m/50 mW

TAPE RECORDER

Track system Recording system Erasing system Monitor system Frequency range(Normal position)

4 track, 2 channel, stereo AC bias Magnet (Multi pole) Variable sound monitor 50 – 12000 Hz

Notes :

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

CD PLAYER

Sampling frequenc	y 44.1 kHz
Decoding	16 bit linear
Beam source	Semiconductor laser (wavelength; 780 nm)
No. of channels	2 channel, stereo
Wow and flutter	Less than possible measurement data
D/A converter	MASH (1 bit DAC)

■GENERAL

Power requirem	ent	
AC	230 – 240 V	′, 50 Hz
	Power consumptio	n: 60 W
Battery	12V (Eight R20/LR20, D size, UM-1 ba	atteries)
Memory back-up	ofor	
computer	6V (Four R6/LR6, AA size, UM-3 ba	atteries)
Speakers	10 cm x	2 (6 Ω)
Jacks		
Output	Headphones;	32 Ω
Dimensions (W	x H x D) 480 x 156 x 2	248 mm
Weight	4.8 kg without b	atteries
	-	

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.



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Precaution of Laser Diode

CAUTION : This product utilizes a laser diode with the unit turned "ON", invisible laser radiation is emitted from the pick up lens. Wavelength: 780 nm

Maximum output radiation power from pick up : 100 µW/VDE

Laser radiation from pick up unit is safety level, but be sure the followings:

Do not disassemble the optical pick up unit, since radiation from exposed laser diode is dangerous. 1.

Page

- Do not adjust the variable resistor on the pick up unit. It was already adjusted. 2.
- З. Do not look at the focus lens using optical instruments.
- 4. Recommend not to look at pick up lens for a long time.

Dieses produkt enthält eine laserdiode. Im eingeschalteten zustand wird unsichtbare laserstrahlung von der ACHTUNG: lasereinheit abgestrahlt.

> Wellenlänge : 780nm Maximale strahlungsleistung der lasereinheit :100µW/VDE

Die strahlung an der lasereinheit ist ungefährlich, wenn folgende punkte beachtet werden:

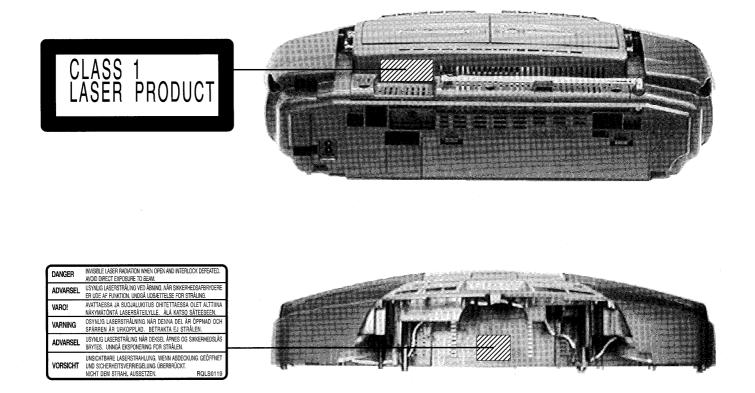
- 1. Die lasereinheit nicht zerlegen, da die strahlung an der freigelegten laserdiode gefährlich ist.
- 2. Den werkseitig justierten einstellregler der lasereinhit nicht verstellen.
- 3. Nicht mit optischen instrumenten in die fokussierlinse blicken.
- 4. Nicht über längere zeit in die fokussierlinse blicken.

ADVARSEL: I dette a apparat anvendes laser.

CAUTION!

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

Use of Caution Labels



Handling Precautions for Traverse Deck

The laser diode in the traverse deck (optical pickup) may break down due to potential difference caused by static electricity of clothes or human body. So, be careful of electrostatic breakdown during repair of the traverse deck (optical pickup).

· Handling of traverse deck (optical pickup)

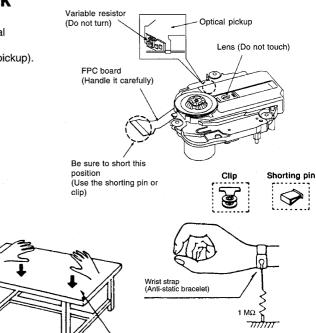
- 1. Do not subject the traverse deck (optical pickup) to static electricity as it is extremely sensitive to electrical shock.
- 2. To prevent the breakdown of the laser diode, an antistatic shorting pin is inserted into the flexible board (FPC board). When removing or connecting the short pin, finish the job in as short time as possible.
- 3. Take care not to apply excessive stress to the flexible board (FPC board).
- 4. Do not turn the variable resistor (laser power adjustment). It has already been adjusted.

Grounding for electrostatic breakdown prevention

- 1. Human body grounding
- Use the anti-static wrist strap to discharge the static electricity from your body.
- 2. Work table grounding
- Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is placed, and ground the sheet.

Caution :

The static electricity of your clothes will not be grounded through the wrist strap. So, take care not to let your clothes touch the traverse deck (optical pickup).



Iron plate or some metals to conduct electricity

Caution for AC Mains Lead

(For "EB" area code model only.)

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.

A 5-ampere fuse is fitted in this plug.

Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.

Check for the ASTA mark $\langle \overline{W} \rangle$ or the BSI mark $\langle \overline{V} \rangle$ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.

If you lose the fuse cover, the plug must not be used until a replacement cover is obtained.

A replacement fuse cover can be purchased from your local dealer.

CAUTION !

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OFF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted, please observe the wiring code as shown below.

If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue: Neutral

Brown: Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.

The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL \pm OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF-KEEP DRY.

Before use

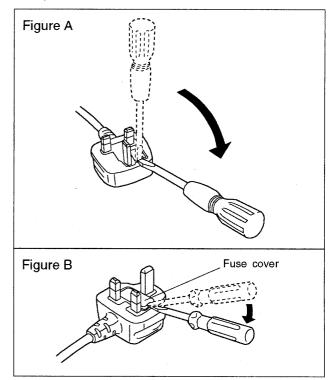
Remove the connector cover.

How to replace the fuse

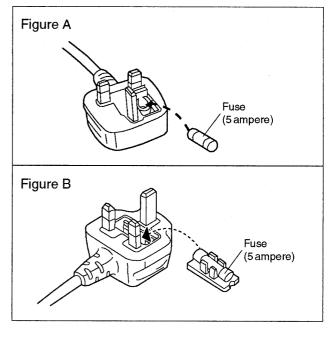
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.



2. Replace the fuse and close or attach the fuse cover.



Operation Checks and Main Component Replacement Procedures

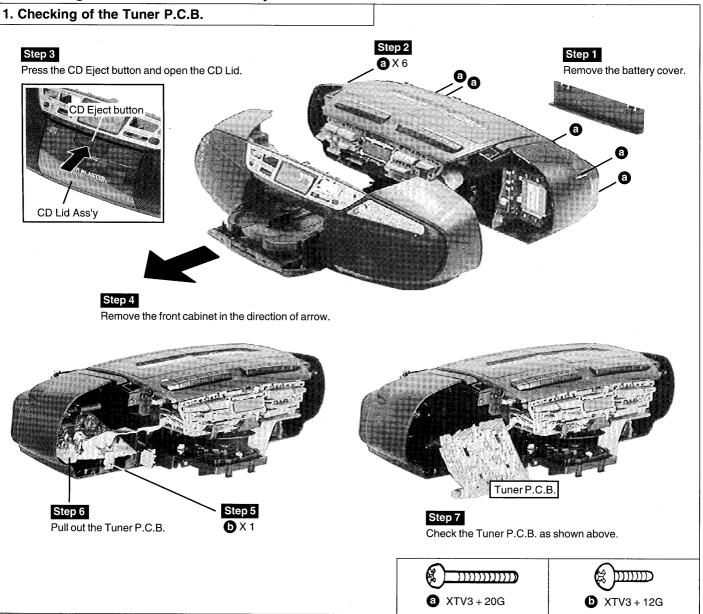
- This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
 For reassembly after operation checks or replacement, reverse the respective procedures.
- Special reassembly procedures are described only when required.
- 3. Select items from the following index when checks or replacement are required.

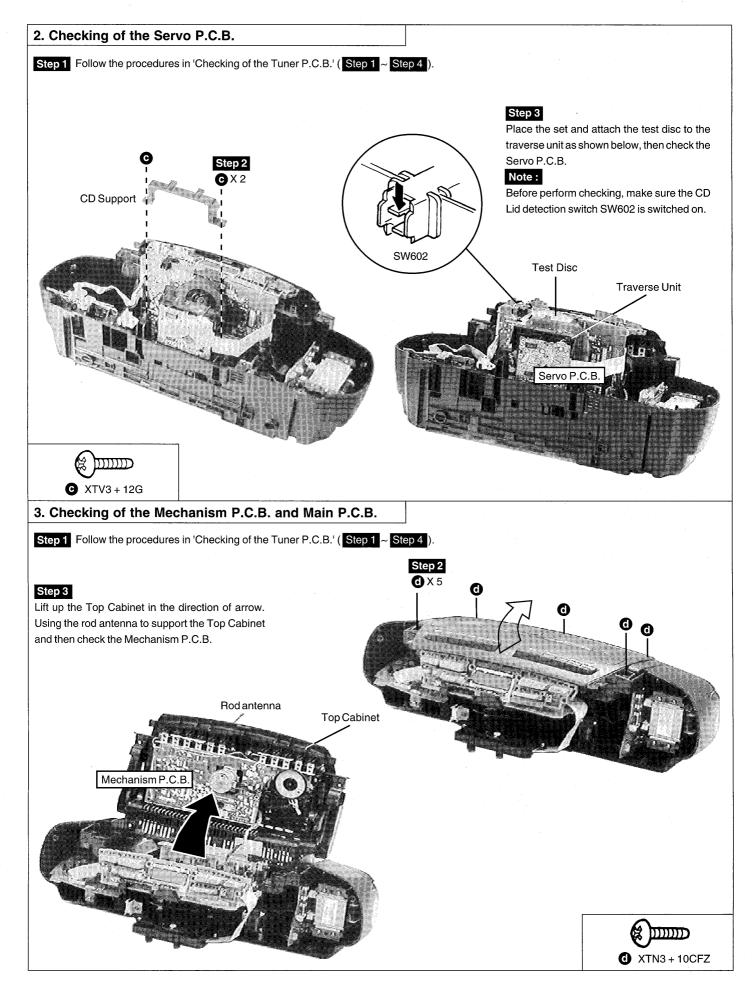
Contents

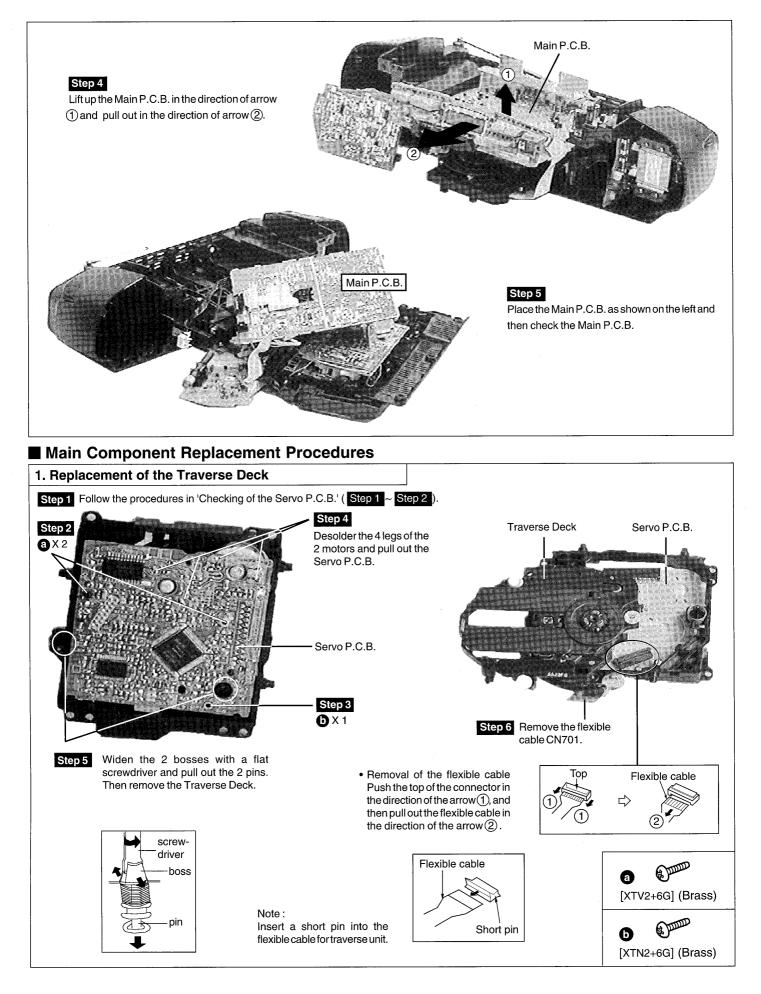
page

- Checking Procedure for each major P.C.B.
 1. Checking of the Tuner P.C.B.
 2. Checking of the Servo P.C.B.
 3. Checking of the Mechanism P.C.B. and Main P.C.B.
 6 & 7
 Main Component Replacement Procedures
 1. Replacement of the Traverse Deck
 7
- Warning : This product uses a laser diode. Refer to caution statements on page 2.
 ACHTUNG : Die lasereinheit nicht zerlegen.
 - Die lasereinheit darf nur gegen eine vom hersteller spezifizierte einheit ausgetauscht werden.

Checking Procedure for each major P.C.B.







— 7 —

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.

Preparation

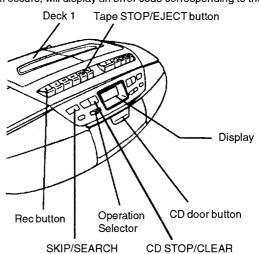
Normal blank tape with recording prevention tab on one side.

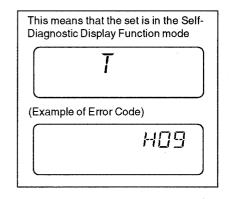
How to enter the Self-Diagnostic Display Function mode

- 1. Turn the power on.
- 2. Set the Operation Selector to CD. (with no CD loading condition)
- Press and hold the "STOP/CLEAR" button for at least 2 seconds. While pressing the "STOP/CLEAR" button, press the "SKIP/SEARCH" button for 2 seconds. "T" will appear on the FL display. (The set is in the Self-Diagnostic Function Mode)
- 4. Open the CD door.
- 5. Close the CD door.
- 6. Load the normal blank tape to DECK 1.
- 7. Press the "REC" button.
- 8. Press the "TAPE STOP/EJECT" button.

Press the "CD STOP/CLEAR (■) to check the result. If there is problem, the error code shall be displayed. (If no problem, display shows counter indication). In case several problems exist, error code will change each time you press the "CD STOP/CLEAR" button.

■ How to get out from the Self-Diagnostic Display Function Select Operation Selector to other mode except CD.





Interpretation of Error Codes

(Note : * means error code will be displayed automatically)

Error Code	Problem condition	Correction procedure
*U01	When the unit is operating on batteries, power supply ceases soon after the power is turn on.	It is due to consumption of batteries. Replace the batteries with new ones.
*U02	Turn the power on causes no supply of power.	Check the power plug (AC) or insert batteries (DC).
H09	Tape does not play even pressing PLAY button.	Faulty Leaf switch (SW302, SW312). Faulty operation Q616.
H16	CD does not operate and indicate [NO DISC].	Faulty contact or short circuit of CD tray close switch. (SW602)
F15	Relatively long time (about 5 sec) is required to begin play when the CD play button is pressed from the power-off state or from a function other than CD player.	Faulty contact on CD mechanism optical pick-up rest switch (S701).
F26	CD does not operate and LCD shows	Faulty data communication of servo processor IC and microprocessor.
F69	CD does not start to play at syncro-recording function mode.	Faulty contact or short circuit of recording switch (SW301).
*F75	「NO DISC 」 indication show in the FL display even CD is loaded.	Faulty power circuit of CD. Faulty servo processor IC.

Measurements and Adjustments

< TUNER SECTION >

ALIGNMENT INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Measuring Condition

1. Set volume control to maximum.

2. Set power source voltage to 12V DC.

3. Output of signal generator should be no higher than necessary to obtain an output reading.

Note : No AM IF and FM STEREO alignment are required.

AM-RF ALIGNMENT

	SIGNAL GENERATOR or SWEEP GENERATOR		INDICATOR (ELECTRONIC	ADJUSTMENT	REMARKS	
CONNECTIONS	FREQUENCY	SETTING	VOLTMETER or OSCILLOSCOPE)	(Shown in Fig. 1)		
Fashion a loop of several turns of wire and radiate a signal into the loop ant. of receiver.	594 kHz	Tune to signal	Headphones Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	(* 1) L3(AM ANT Coil)	Adjust for maximum output. Adjust L3 by moving coil along the ferrite core.	
и	1,503 kHz	H	н	CT1 (AM ANT Trimmer)	Adjust for maximum output.	

(*1) Fix antenna coil with wax after completing alignment.

< CASSETTE DECK SECTION > ALIGNMENT INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Measuring Instruments

Digital frequency counter

Measuringcondition

• Make sure the heads are clean.

Test tape

Make sure the capstan and pressure roller are clean.

Tape-to-tape recording speed selector : NORMAL

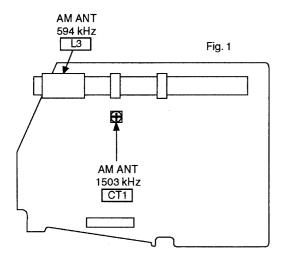
• Tape speed adjustment (3kHz, - 10 dB) : QZZCWAT

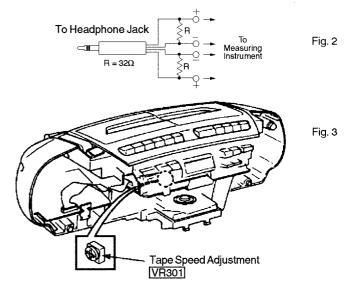
Note : No Azimuth Head Alignment is required due to Aztec Head is used in the cassette mechanism.

■ TAPE SPEED ALIGNMENT

TEST TAPE	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
QZZCWAT (3 kHz, –10dB)	Headphone Jack (32Ω) Fabricate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.	VR301 (As shown in Fig 3)		 Insert the test tape to the DECK 1 and playback. Adjust VR301 for output value of 3000±30 Hz. Insert the test tape to the DECK 2 and playback. Adjust VR301 for output value of 3000±30 Hz by reading the frequency counter.

■ ALIGNMENT POINTS





■ Terminal Function of IC's

• IC701 (AN8835SBE1) Servo Amplifier

in o.	Mark	1/0	Function	Pin No.	Mark	٧O	Function
1	PDA	1	PD signal input		/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	0	Off-track output("L" : ON track, "H" : OFF tr
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		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	1	Tracking balance signal input
11	CEA	1	Capacitor connection for HPF amplifier	25	FBAL	I	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		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	1	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	-	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	I	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+	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	1	Power supply (2) for driver	

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

Pin No.	Mark	1/0	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	I	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		Tracking error signal input (analog input)
34	RFENV		RF envelope signal input
35	VDET		Vibration detection signal input ("H" : detection)

Pin No.	Mark	1/0	Function
36	OFT	1	Off-track signal input ("H" : off track)
37	TRCRS	1	Track cross signal input
38	/RFDET	Ι	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	ł	RF signal input
45	IREF	1	Reference current input
46	DRF	I	DSL bias (Not used, open)
47	DSLF	1/0	DSL loop filter
48	PLLF	1/0	PLL loop filter
49	VCOF	I/O	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	Ι	Sub-code frame clock signal output
			(fCLDCK=7.35kHz during normal playback)
57	VSS	-	GND
58	X1	I	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	<u> </u>	Reset input through MASH circuit ("L" : Reset)
71	/TEST	I	Testinput

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	I	Crystal oscillating frequency designation input

Pin No.	Mark	1/0	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)

• IC601 (SC440422CFU) System Microprocessor

Pin No.	Mark	1/0	Function
1	VDD	—	+5V power supply
2	BP2	0	Recording beat proof
3	CD L	I/O	CD power supply control
4	TMUTE	I/O	Tuner muting output
5	R CTL	I/O	Remote control power supply output
6	PLL CE	I/O	TUNER PLL IC CE output
7	PLL CK	I/O	When TUNER, PLL IC CLK output
	/MCLK		When CD, CD LSI CLK output
8	PLLDATA	I/O	When TUNER, PLL IC DATA output
	/MDATA		When CD, CD LSI DATA output
9	TUNED	Ι	When TUNER, Reception Condition input
	/FLOCK		When CD, Focus lock signal input
10	TLOCK	1	CD tracking clock signal input
11	MLD	0	CD LSI LOAD output
12	REC H	-	Recording condition detection input
13~15	VLCD 3~1		LCD driving bias voltage input
16	VSS		GND
17	VDD(NDLY)		TEST terminal
18	XOSC IN	I	X'tal connection terminal (32 kHz)
19	XOSC OUT	0	
20	RESET	Ξ	Micro Processor reset input
21	OSC1	Ι	Ceramic Oscillator connection (4.19 MHz)
22	OSC2	0	
23	MBP1	0	Mirco Processor beat proof control output 1
24	MBP2	0	Mirco Processor beat proof control output 2
25	TONE/ASPCK	0	Tone control, ASP IC CLK output
26	BPI/ASPDA	0	AM Rec. beat proof, ASP IC data output
27	ASPLT	0	ASP IC latch output
28	HSTAT	I/O	HAMP MUTE control output, HAMP condition
			detection input
29	PCNT	0	Power control output
30	REST SW	1	CD traverse REST SW input
31	AC DET	1	AC power coding detection input
32	MOT LOW	-	Deck motor control detection input
33	SCD	1	Function SW CD input
34	S TAPE	١	Function SW TAPE input

Pin No.	Mark	I/O	Function
35	S TUNER	I	Function SW TUNER input
36	KEY WK	ł	KEY 1 WAKE UP input
37	CLOSE SW	1	CD Lid CLOSE detection SW input
38	CD RESET	1/0	CD RST output
39	SUBQ	1	CD SUB code Q data input
40	FSEL	1/0	When reset start, CD mode setting input
41	SQCK	0	CD SUB code reading clock output
42	SENSE	I	CD SENSE input
43	STAT	1	CD STATUS input
44	MUTE A	0	Audio mute output
45	BLKCK	1	CD SUB code block clock input
46	REM IN	1	Remote control receive pulse input
47	VDD		+5V power supply
48~51	COM 3~0	0	LCD remote control output
52	V REF H		AD converter reference voltage (VDD)
53	V REF L	—	AD converter reference voltage (VSS)
54	P DET	1	SWVCC voltage detection input
55	KEY 1	1	Key input (KW1 coupling)
56	KEY 2	1	Key input
57	REG 1	1	Area setting input 1
58	REG 2	1	Area setting input 2
59	SEG 2	0	LCD segment output
60	VSS		GND
61~80	SEG 3~22	0	LCD segment output
			·

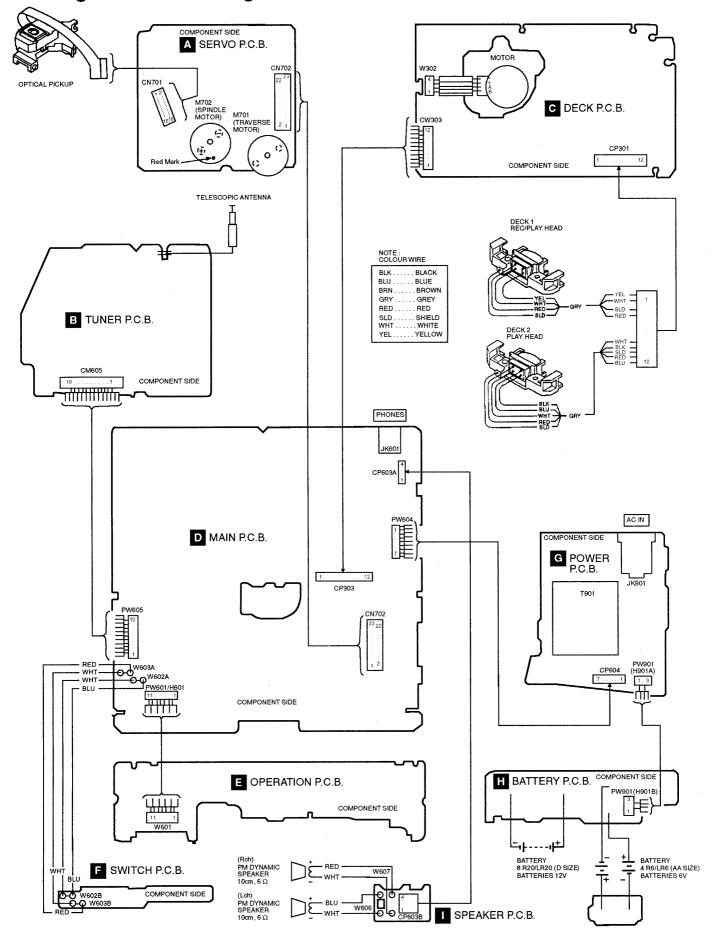
• IC2 (BU2616F-E2)

Pin No.	Mark	I/O	Function
1	XOUT	0	X'tal oscillator connection (7.2 MHz)
2	XIN	1	
3	CE	1	Tuner PLL strobe input (H=ENABLE)
4	DA	1	Tuner PLL data input
5	CL	1	Tuner PLL clock input
6	TUN	0	Tuner receiving condition detection output
7	SD	1	SD signal input
8	IFIN	I	IF detection signal input
9	P3	0	Pilot signal detection output

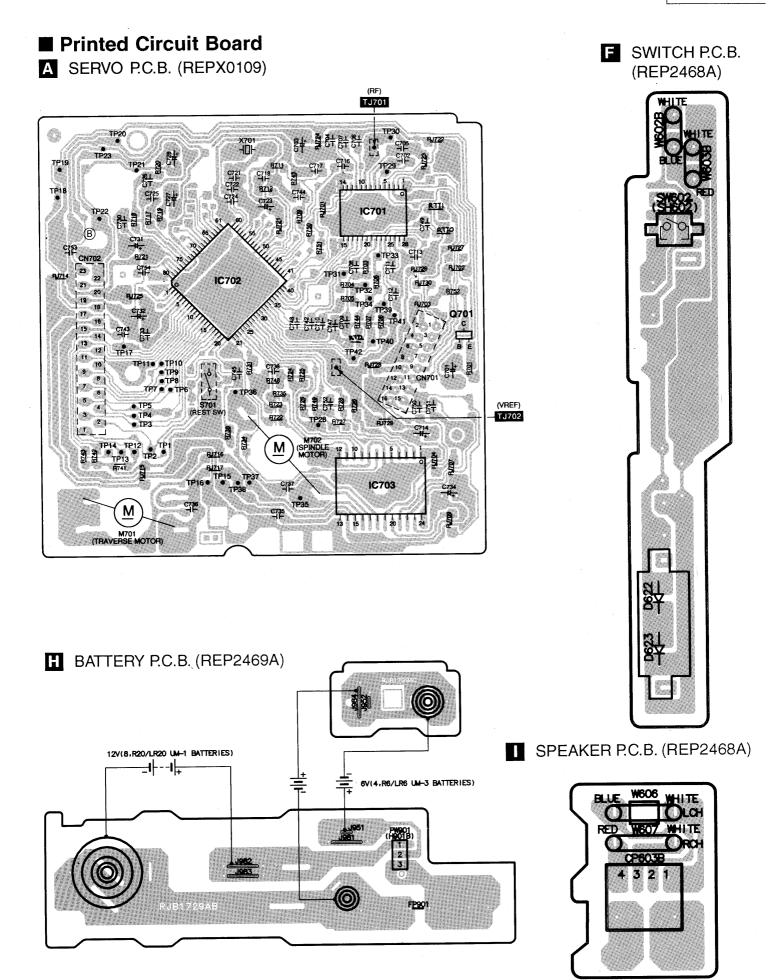
Pin No.	Mark	I/O	Function
10	P0	0	Phase detection signal output
11	P1	0	Tuner power supply control output
12	P2	1	AM OSC signal input
13	AMIN	1	AM OSC signal input
14	FMIN	1	FM OSC signal input
15	VDD	1	Powersupply
16	PD1	0	FM/AM/Vcap control signal output
17	PD2	-	Open
18	GND	—	GND

■ Terminal Guide of IC's, Transistors and Diodes

AN7317 9 16 AN7317 9 16 AN7317 8	BH3854AFS-E2	2SB709S B E	TA7358FMATEL KV1583BMTL 8 1 1 4	AN8389SE1	AN8835SBE1(28P) BU2616F-E2(18P) LA1832MLSTEL(24P)
MN662741RPA(80P)	SC440422CFU(80P)	AN7077Z-LDC	AN7194K-LD	S81250PG-T S-806H-Z	2SB1566E BCE
2SA952LTA 2SC1684STA 2SC2001LTA	ECB	2SA1309ARTA 2SC2785FTA 2SC2786LTA 2SC3313BTA	BCE	2SC1740SRTA RVTDTA114YST RVTDTA143XST RVTDTC114TST RVTDTC114YST RVTDTC143XST RVTDTC144EST RVTDTC144EST RVTDTC144TST	BCE
KV1360NT	SLA362MTTJ7 Cathode Anode	1SS254TA MA700TA RVD1SS135TA	Ca Cathode A Anode	MTZJ15BTA MTZJ5R6CTA MTZJ6R8BTA MTZJ7R5CTA	Ca A Cathode A Anode
SLR342DC Cathode Anode Cao	SPR54MVWF	1N5402BM21 Ca Cathode Anode			

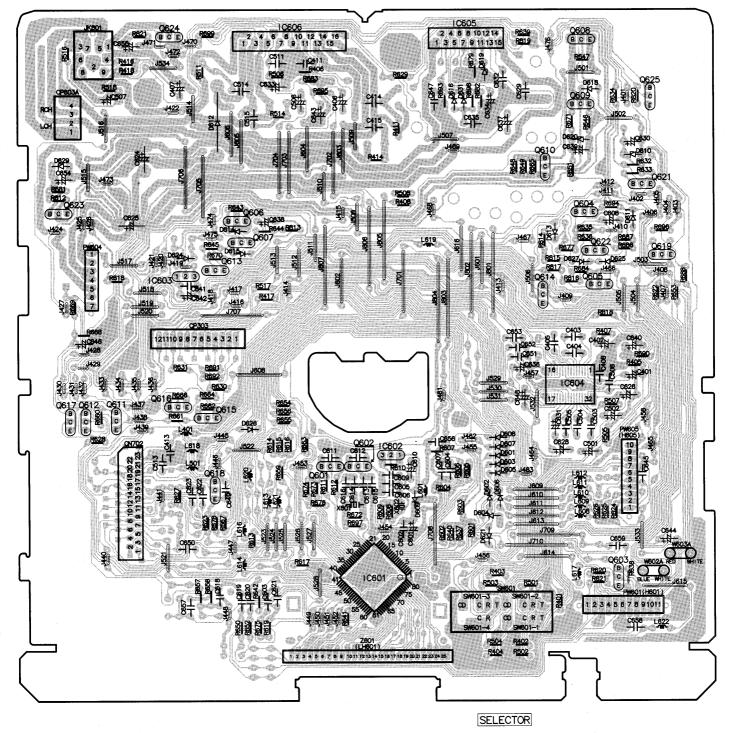


Wiring Connection Diagram

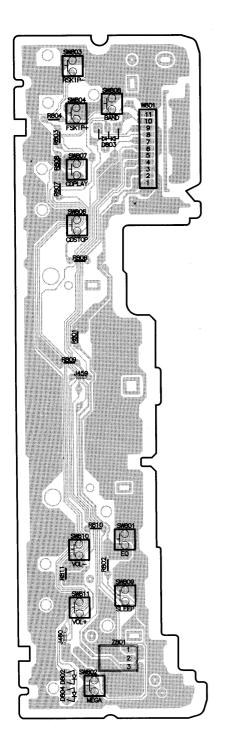


D MAIN P.C.B. (REP2468A)

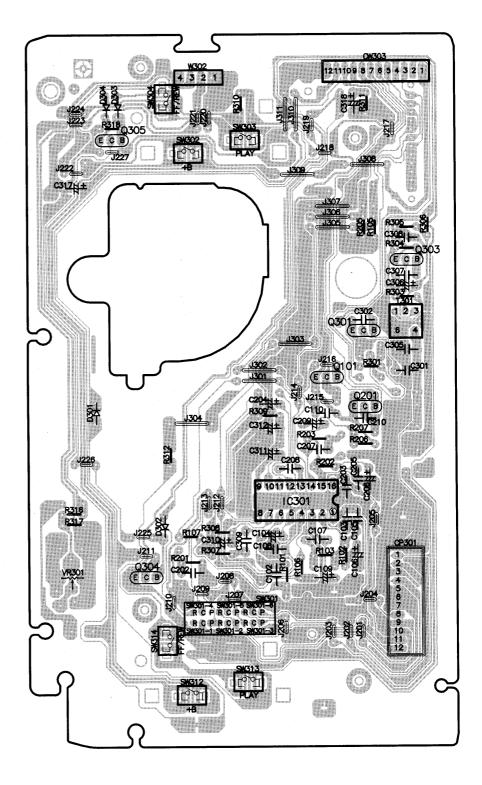
PHONES



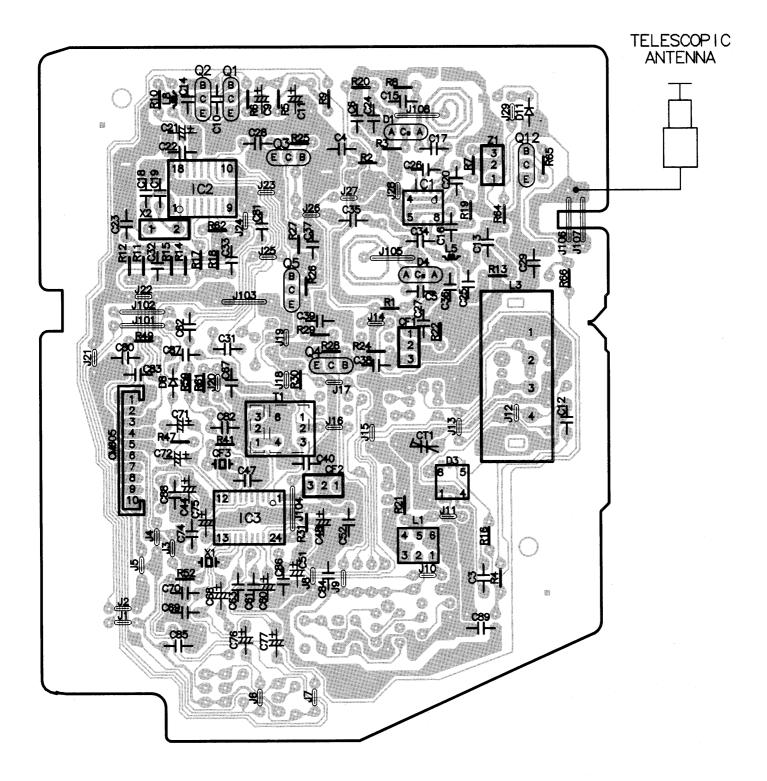




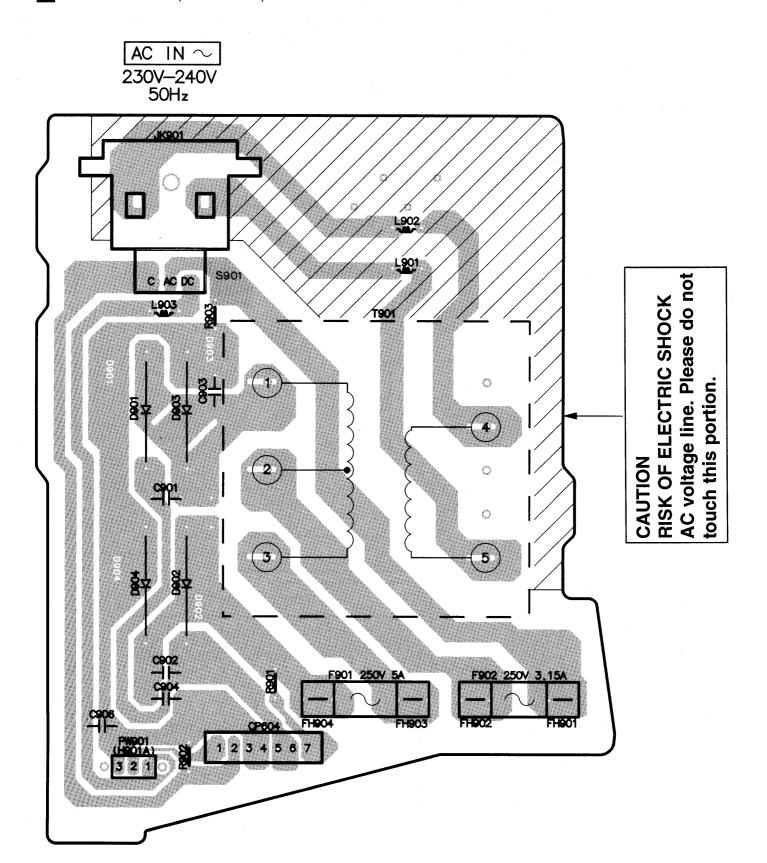
C DECK P.C.B. (REP2389C)



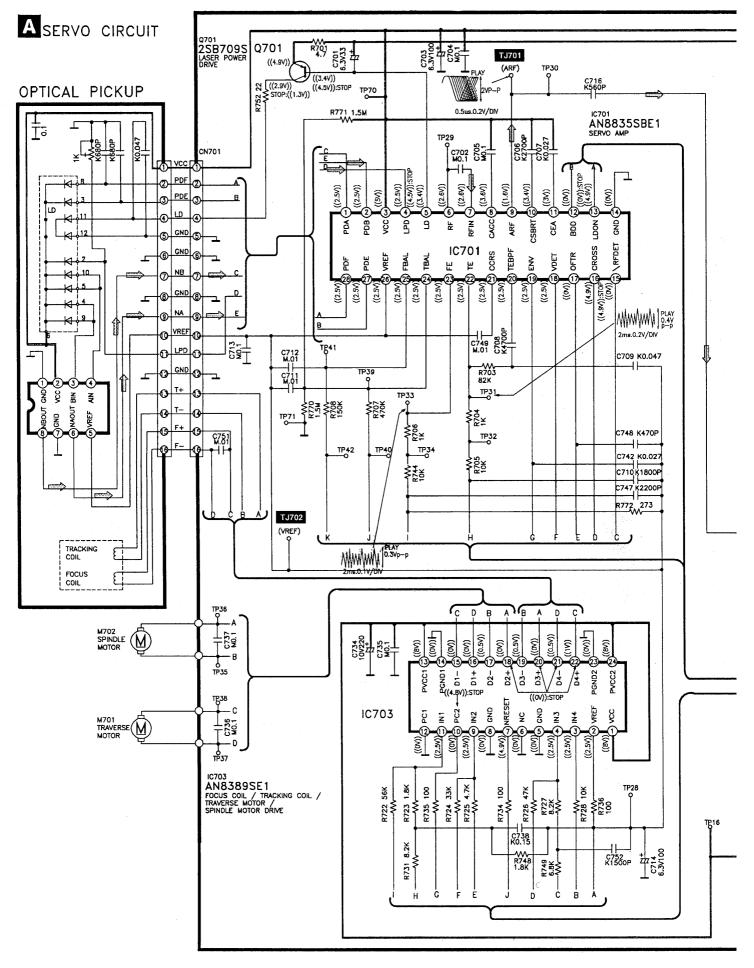
B TUNER P.C.B. (REP2470C)



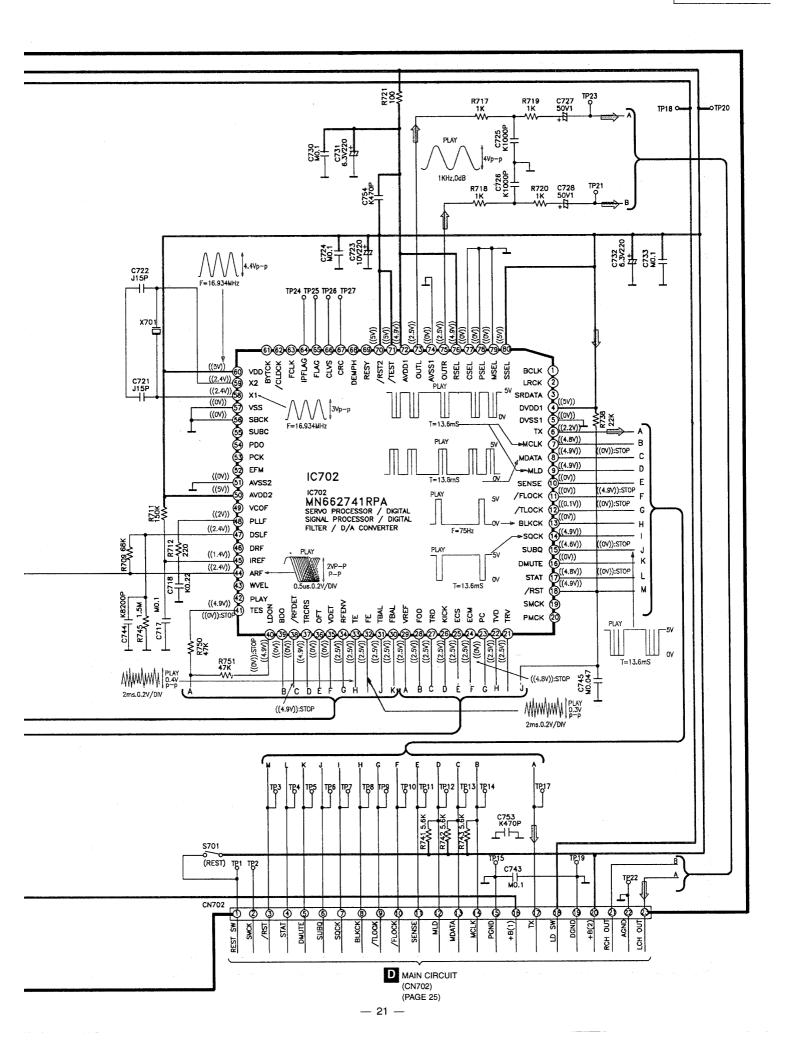
G POWER P.C.B. (REP2469A)

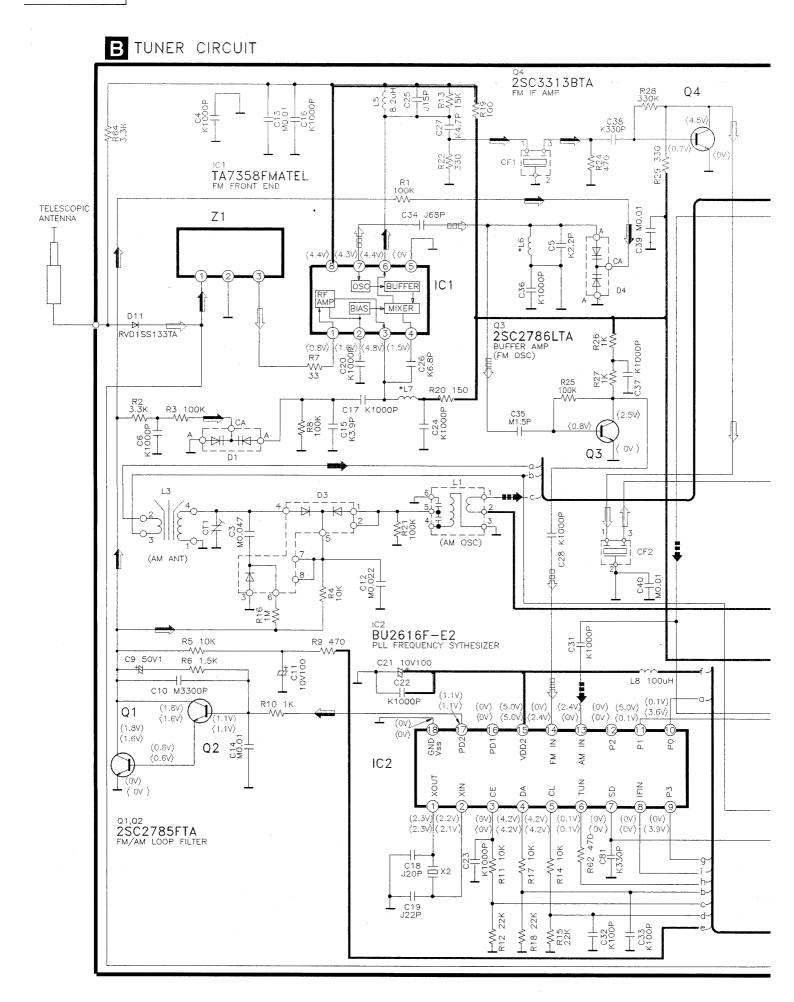


Schematic Diagram

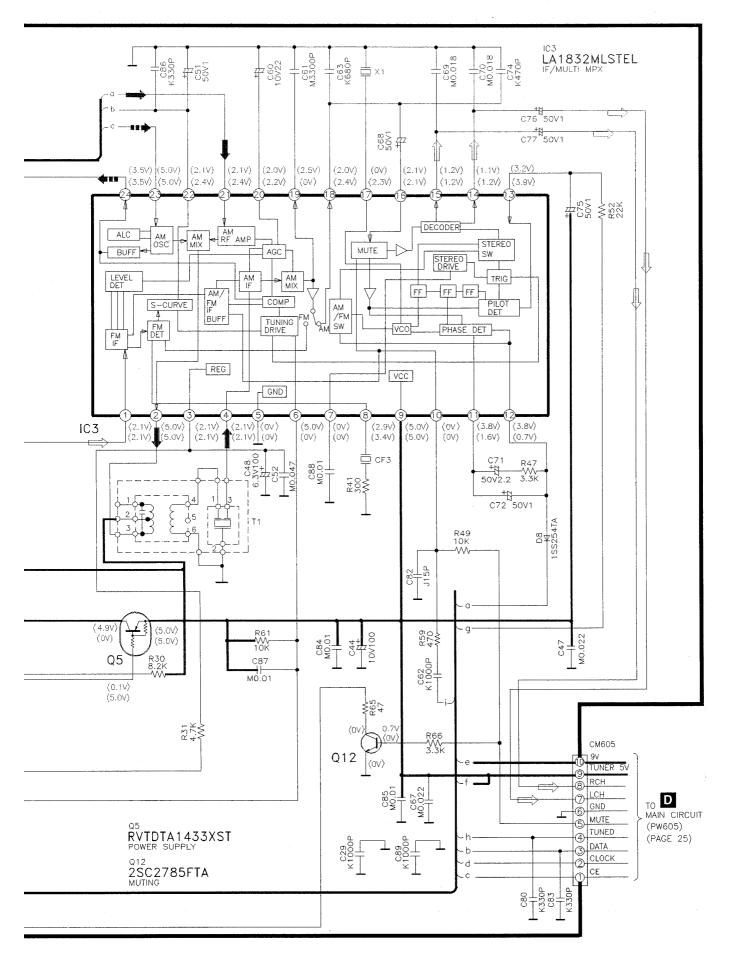


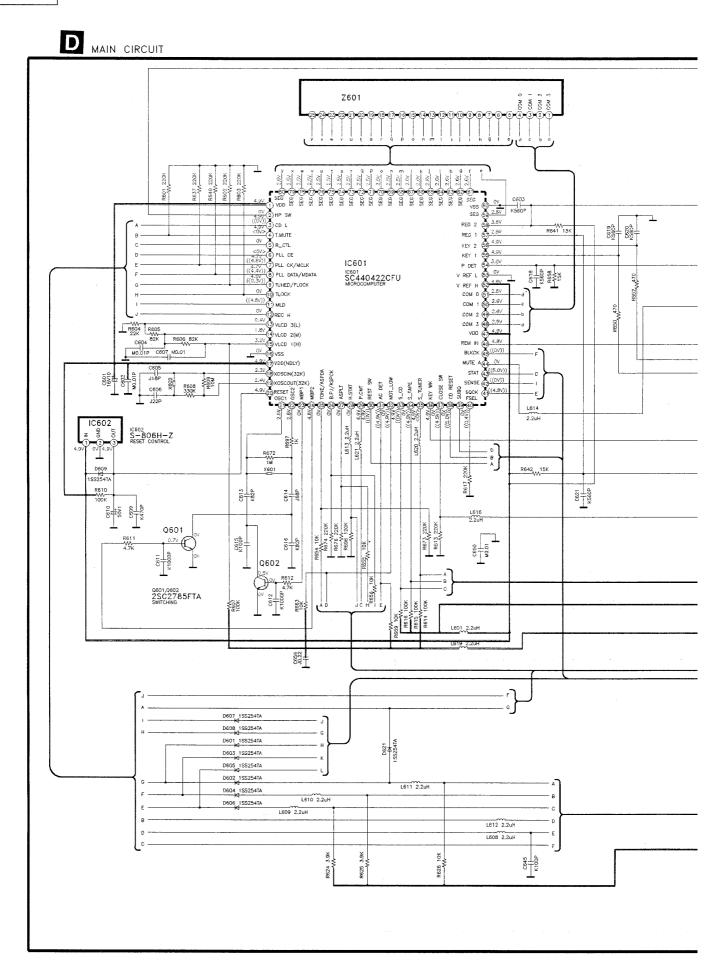
— 20[°]—



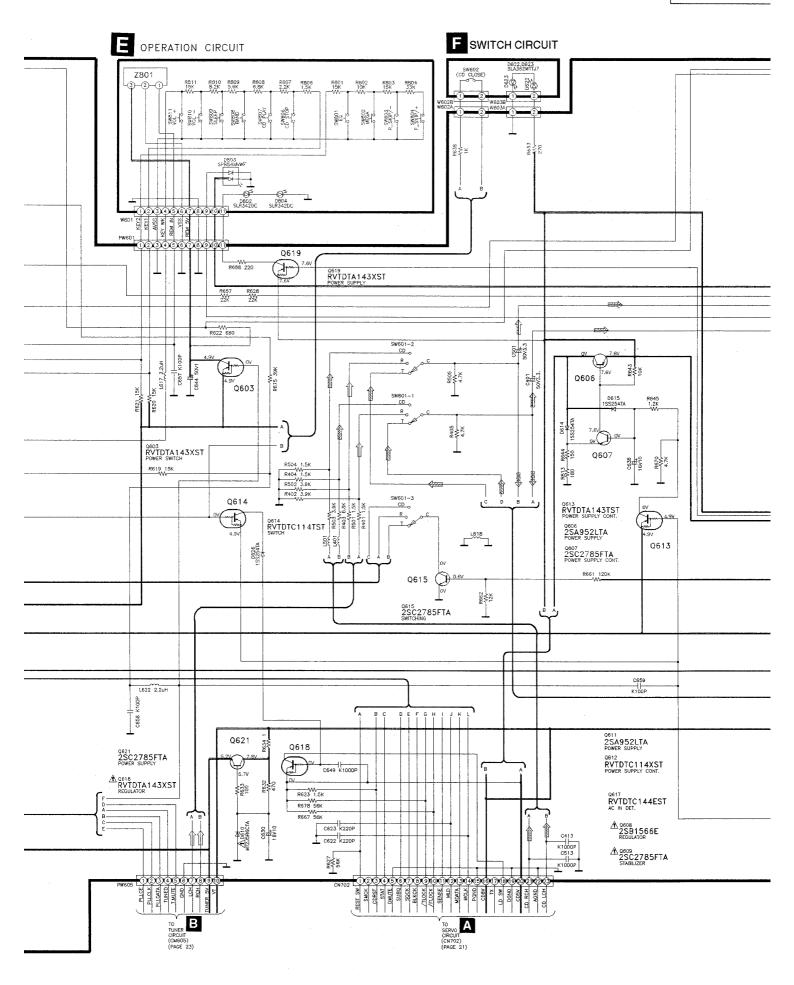


- 22 -



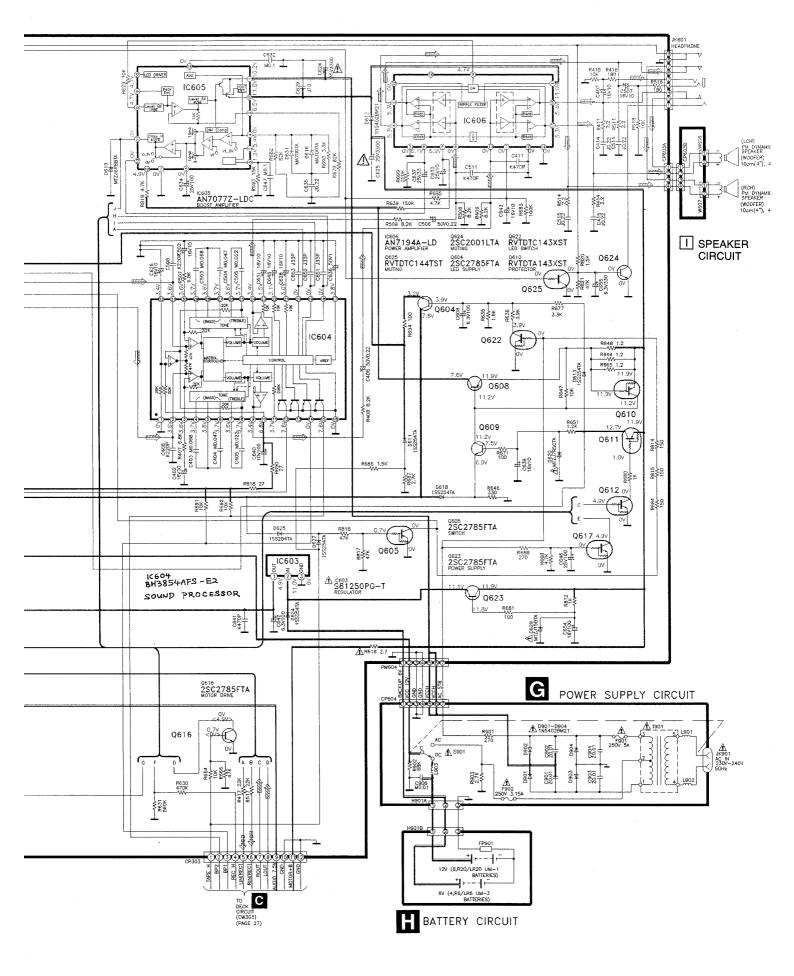


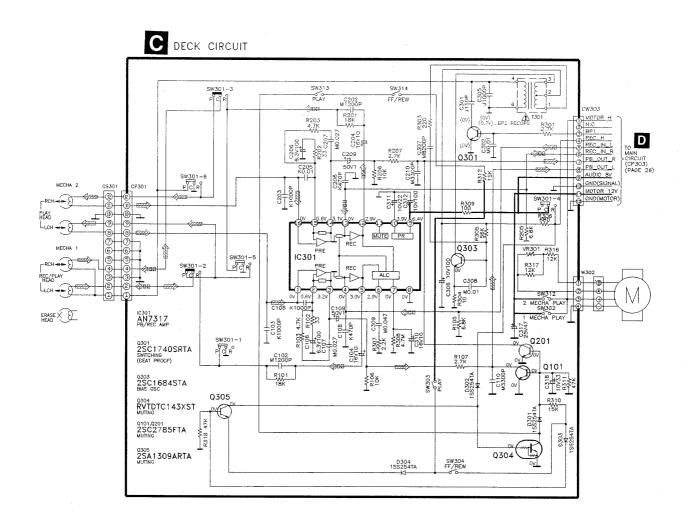
— 24 —



— 25 —

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Schematic Diagram

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

< for Servo circuit > (Page 21) S701 Rest switch : < for Main circuit, Switch circuit and Operation circuit > (Page 25) • SW601-1 ~ SW601-3 Function switch SW602 Leaf switch SW801 PRESET EQ switch SW802 Power Blaster switch • SW803 SKIP/SEARCH (-) switch • SW804 SKIP/SEARCH (+) switch CD Stop/Clear switch SW806 5 SW807 CD Play/Pause switch • SW808 Band switch • Sleep (TUNER/CD) switch SW809 • SW810 Volume (-) switch 2 • SW811 Volume (+) switch < for Power Supply circuit > (Page 26) AC/DC switch (JK901) S901 : < for Deck circuit > (Page 27) SW301-1 ~ SW301-6 REC. switch : • SW302 FF/CUE (Deck 2) switch 2 • SW303 PLAY (Deck 2) switch • SW304 FF/REW (Deck 2) switch : • SW312 FF/CUE (Deck 1) switch • SW313 PLAY (Deck 1) switch : FF/REW (Deck 1) switch SW314 : VR301 Tape Speed switch < General > Battery Current Measurement condition: Vol. min 330 mA (FM) Vol. max 1.0 A (FM) Radio : FM 60 dB, 30%mod 320 mA (AM) 700 mA (AM) AM 74 dB/m, 30%mod 420 mA (TAPE) 1.50 A (TAPE) Tape : 315 Hz, 0dB 540 mA (CD) 2.25 A (CD) CD 1kHz, 0dB Signal line : +Bline : Record signal line : AM OSC signal line : FM/AM signal line CD signal line FM OSC signal line nnn : Main signal line : FM signal line TITIN . Playback signal line : AM signal line •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 (()): CD << >>.....Rec { }: Tuner () 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.

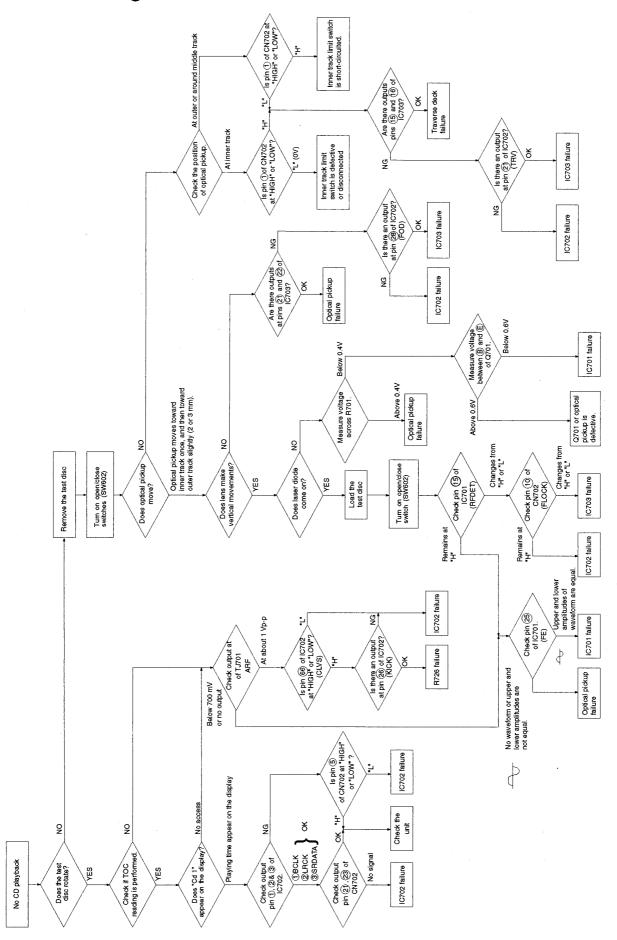
•Cover the parts boxes made of plastics with aluminium foil.

•Ground the soldering iron.

•Put a conductive mat on the work table.

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

Troubleshooting Guide

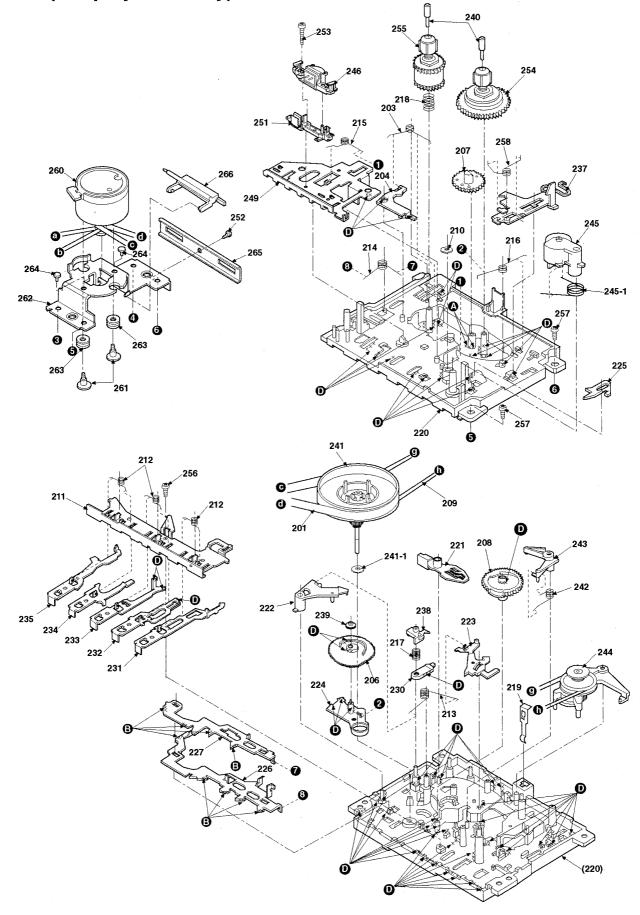


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Mechanism Parts Location (RAA0921) **DECK 1 (For recording and playback)** Note: Refer to Mechanism Parts List on page 32. 140 155 Ĩ 153 154 118 103 151 115 158 107 157 137 149 45 110 116 5 D 128 Ô 0 £D) 0 145-1 A **15**7 Ø SPECIFICATION Playback troque 25 ~ 60 g.cm 125 Fast forward torque 65 ~ 130 g.cm E **Rewind** torque 65 ~ 130 g.cm O Ø 120 141 112 156 G 6 111 0 101 112 109 O 108 121 43 142 139 135 123 134 O 133 132 144 131 136 106 124 119 130 e Ð 13 Θ Note: Ð When changing mechanism parts, apply the specified grease to arrow indicated Ð areas as shown in the drawing. Ref No. Part No. 0 SZZ0L25 ₿ SZZ0L06 O (120) 0 SZZ0L30 O

— 30 —

DECK 2 (For playback only)

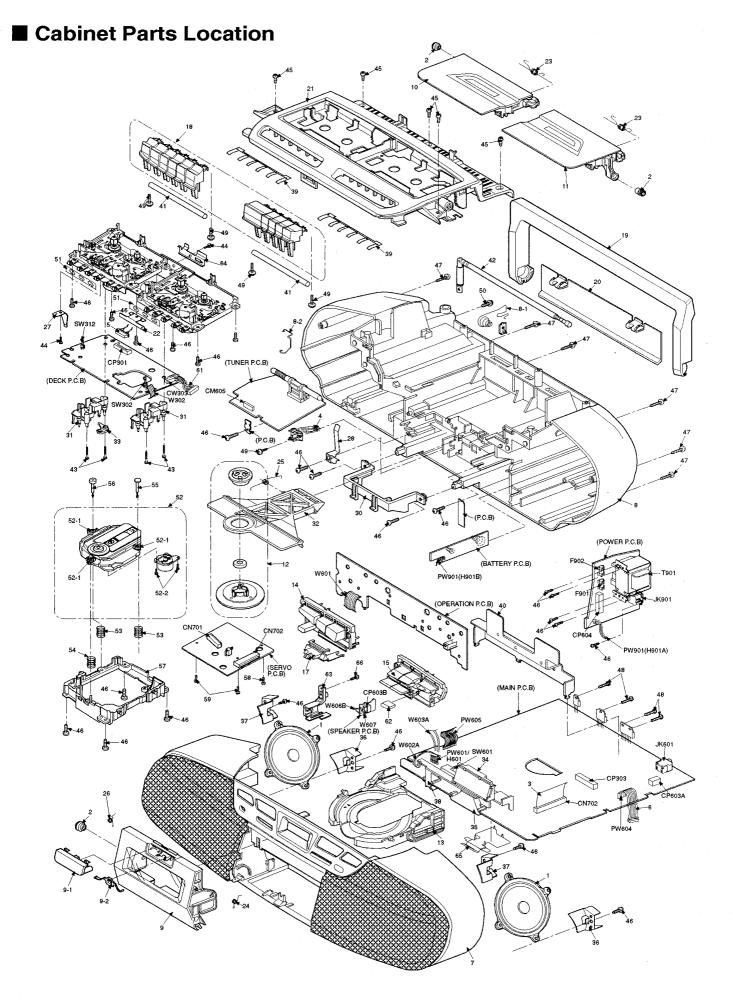


Mechanism Parts List

Note : $\ensuremath{\bullet}$ [M] mark in Remarks column indicates parts that are supplied by MESA.

• Refer to Mechanism Parts Location on pages 30 & 31.

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		144	RXP0014	RF CLUTCH ASS'Y	[M]	235	RMM0027	PAUSE ROD	[M]
				145	RXP0015	PINCH ROLLER ASS'Y	[M]	237	RMM0029	EJECT SLIDE LEVER	[M]
101	RDV0021	MAIN BELT	[M]	145-1	RMB0049	PINCH ARM SPRING	[M]	238	RMR0211	PAUSE BUSH	[M]
103	RMB0109-1	BRAKE SPRING	[M]	146	RBR4CY016-M	R/P HEAD	[M]	239	RMR0227	IDLER GEAR BUSH	[M]
104	RML0116	BRAKE	[M]	149	RMA0696	HEAD BASE ASS'Y	[M]	240	RMS0055	REEL SHAFT	[M]
105	RBR2CY009	E HEAD	[M]	151	RMQ0384	HEAD BASE	[M]	241	RXF0012	FLYWHEEL ASS'Y	[M]
106	RDG0057	IDLER GEAR	[M]	153	XTN2+14F	SCREW	[M]	241-1	RHW21008	WASHER	[M]
107	RDG0059	FF RELAY GEAR	[M]	154	RXR0004	TAKE UP REEL ASS'Y	[M]	242	RMB0044	TRIGGER SPRING	[M]
108	RDK0005	CAM GEAR	[M]	155	RXR0005	SUPPLY REEL ASS'Y	[M]	243	RML0075	TRIGGER LEVER	[M]
109	RDV0006-1	RF BELT	[M]	156	XTN2+6J	SCREW	[M]	244	RXP0014	RF CLUTCH ASSY	[M]
110	RHW16009	CAPSTAN WASHER	[M]	157	XTV26+6F	SCREW	[M]	245	RXP0015	PINCH ROLLER ASSY	[M]
111	RMA0109	BACK PLATE	[M]	158	RME0098-2	SPRING	[M]	245-1	RMB0049	PINCH ARM SPRING	[M]
112	RMB0043-1	ROD OPERATION SPRING	[M]					246	RBR4CY016-M	R/P HEAD	[M]
113	RMB0045	AS SPRING	[M]			CASSETTE DECK 2		249	RMA0696	HEAD BASE ASS'Y	[M]
114	RMB0046-1	LOCK PLATE SPRING	[M]					251	RMQ0383	HEAD BASE	[M]
115	RMB0047	HEAD PANEL SPRING	[M]	201	RDV0009	MAIN BELT B	[M]	252	XTN26+3F	EARTH LUG SCREW	[M]
116	RMB0048	IDLER LEVER SPRING	[M]	203	RMB0109-1	BRAKE SPRING	[M]	253	XTN2+14F	SCREW	[M]
117	RMB0053	PAUSE LEVER SPRING	[M]	204	RML0116	BRAKE	[M]	254	RXR0004	TAKE UP REEL ASS'Y	[M]
118	RMB0125	BACK TENSION SPRING	[M]	206	RDG0057	IDLER GEAR	[M]	255	RXR0005	SUPPLY REEL ASS'Y	[M]
119	RMC0061	SPRING	[M]	207	RDG0059	FF RELAY GEAR	[M]	256	XTN2+6J	SCREW	[M]
120	RFKRCT090P-K	CHASSIS ASS'Y	[M]	208	RDK0005	CAM GEAR	[M]	257	XTV26+6F	SCREW	[M]
121	RML0071	SWAYLEVER	[M]	209	RDV0006-1	RF BELT	[M]	258	RME0098-2	SPRING	[M]
122	RML0072	AS RELEASE LEVER	[M]	210	RHW16009	CAPSTAN WASHER	[M]	260		DC MOTOR ASS'Y	[M]
123	RML0073-1	AS PROTECT LEVER	[M]	211	RMA0109	BACK PLATE	[M]	261	RHD26002	SCREW	[M]
124	RML0074	IDLER LEVER	[M]	212	RMB0043-1	ROD OPERATION SPRING		262	RMA0122	ANGLE	[M]
125	RML0076	EJECT SELECTION LEVER			RMB0045	ASSPRING	[M]	263	RMG0102	RUBBER SPACE	[M]
126	RML0077		[M]	214	RMB0046-1	LOCK PLATE SPRING	[M]	264	RMG0131	RUBBER SPACE	[M]
127	RML0078		[M]	215	RMB0047	HEAD PANEL SPRING	[M]	265	RMA0121	ANGLE	[M]
	RML0080	E HEAD ARM	[M]	216	RMB0048		[M]	266	RML0085	LEVER	[M]
	RML0081-1		[M]	217		PAUSE LEVER SPRING		200	11020005		[[V]]
130	RML0082	PAUSE LEVER	[M]	218	RMB0125	BACK TENSION SPRING			······		
	RMM0023	PLAY ROD	[M]		RMC0061	SPRING	[M]				
132	RMM0024	REW ROD				CHASSIS ASS'Y					
	RMM0024	FF ROD	[M]		RML0071		[M]				
	RMM0026	STOP ROD	[M]		RML0072	SWAY LEVER AS RELEASE LEVER	[M]				
			[M]				[M]				
135	RMM0027	PAUSE ROD	[M]	223	RML0073-1	AS PROTECT LEVER	[M]				
136	RMM0028	REC ROD	[M]	224	RML0074		[M]				
	RMM0029	EJECT SLIDE LEVER	[M]	225	RML0076	EJECT SELECTION LEVER					
	RMR0211	PAUSE BUSH	[M]		RML0077		[M]				
139	RMR0227	IDLER GEAR BUSH	[M]		RML0078	FUNCTION PLATE	[M]				
140	RMS0055	REEL SHAFT	[M]	230	RML0082	PAUSELEVER	[M]				
141	RXF0012	FLYWHEEL ASS'Y	[M]		RMM0023		[M]				
141-1	RHW21008	WASHER	[M]		RMM0024		[M]				
142	RMB0044	TRIGGER SPRING	[M]	-	RMM0025	FF ROD	[M]				
143	RML0075	TRIGGER LEVER	[M]	234	RMM0026	STOP ROD	[M]	L			



Replacement Parts List

Notes: • Important safety notice :

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

Furthermore, special parts which 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.
[VRD] indicates in Remarks column parts that are supplied by Video Recorder Division.

[VRD] indicates in Remarks column parts that are supplied by Video Recorder Division.
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. ACHTUNG: Die lasereinheit nicht zerlegen.
Die lasereinheit darf nur gegen eine vom hersteller spezifizierte einheit ausgetauscht werden.

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 CHASSIS		32	RML0455	CD CLAMPER HOLDER	[M]			INTEGRATED CIRCUITS	
				33	RML0462	R/P LEVER	[M]				
1	EAST10P01A6	SPEAKER	[M]	34	RMN0393	LCD HOLDER	[M]	IC1	TA7358FMATEL	IC, FM RF	[M]
2	RDG0183-L	DAMPER GEAR	[M]	35	RMN0394	LED HOLDER	[M]	IC2	BU2616F-E2	IC, PLL	[M]
3	REE0763	CD FFC	[M]	36	RMN0397	SP. SUPPORT PLATE(1)	[M]	IC3	LA1832MLSTEL	IC, IF/MULTI	[M]
4	REX0860	SP WIRE	[M]	37	RMN0398	SP. SUPPORT PLATE(2)	[M]	IC301	AN7317	IC,PLAYBACK/REC. AMF	[M]
5	REX0859	HEAD WIRE	[M]	38	RMN0400	LEAF SW. COVER	[M]	IC601	SC440422CFU	IC, MICRO COM.	[M]
6	REX0858	WIRE(7P) TO PWR PCB	[M]	39	RMQ0649	MECHA BTN SUPPORT	[M]	IC602	S-806H-Z	IC, RESET	[M]
7	RFKGXDS27EBK	FRONT CABINET ASS'Y	[M]	40	RMY0185	HEAT SINK	[M]	IC603	S81250PG-T	IC, 5V REGULATOR	[M]
8	RFKHXDT37EBK	BACK CABINET ASS'Y	[M](EB)	41	SUX102	MECHA ROD	[M]	IC604	BH3854AFS-E2	IC, SOUND PROCESSOR	[M]
8	RFKHXDT37EGK	BACK CABINET ASS'Y	[M](EG)	42	XEARR175EA-H	ROD ANTENNA	[M]	IC605	AN7077Z-LDC	IC, BOOST	[M]
8	RFKHXDT37EK	BACK CABINET ASS'Y	[M](E)	43	XTN2+14GF	SCREW	[M]	IC606	AN7194K-LD	IC, BTL POWER	[M]
8-1	RJC91008	+/-BATT. TERMINAL	[M]	44	XTN2+3F	SCREW	[M]				
8-2	RJR0172	ANTENNA TERMINAL	[M]	45	XTN3+10CFZ	TOP CAB. SCREW	[M]			TRANSISTORS	
9	RFKLXDT37EBK	CD LID ASS'Y	[M]	46	XTV3+12G	SCREW	[M]				
9-1	RGU1464-K	CD EJECT BUTTON	[M]	47	XTV3+20G	REAR CAB. SCREW	[M]	Q1	2SC2785FTA	TRANSISTOR	[M]
9-2	RML0456	CD LOCK LEVER	[M]	48	XTV3+8F	POWER AMP IC SCREW	[M]	Q2	2SC2785FTA	TRANSISTOR	[M]
10	RFKLXDT37-KB	CASS LID ASS'Y (L)	[M]	49	XTWS3+8T	SCREW	[M]	Q3	2SC2786LTA	TRANSISTOR	[M]
11	RFKLXDT37-KC	CASS LID ASS'Y (R)	[M]	50	XYN3+F12FY	ROD ANTENNA SCREW	[M]	Q4	2SC3313BTA	TRANSISTOR	[M]
12	RFKNRXDS15PA	DISC HOLDER ASS'Y	[M]	51	RMXX0004	MECHA SPACER	[M]	Q5	RVTDTA143XST	TRANSISTOR	[M]
13	RGQ0195-K	CD TRAY	[M]	52	RAE0150Z	TRAVERSE UNIT	[M]	Q12	2SC2785FTA	TRANSISTOR	[M]
14	RGU1504-H	OPERATION BUTTON(L)	[M]	52-1	SHGD113-1	FLOATING RUBBER	[M]	Q101	2SC2785FTA	TRANSISTOR	[M]
15	RGU1505-H	OPERATION BUTTON(R	[M]	52-2	XQS17+A35FZ	SCREW	[M]	Q201	2SC2785FTA	TRANSISTOR	[M]
17	RGV0186-S	FUNCTION BUTTON	[M]	53	RME0109	FLOATING SPRING A	[M]	Q301	2SC1740SRTA	TRANSISTOR	[M]
18	RGZ0035-K	MECHA BUTTON	[M]	54	RME0142	FLOATING SPRING B	[M]	Q303	2SC1684STA	TRANSISTOR	[M]
19	RKH0038-K	HANDLE	[M]	55	RMS0123-1	FIXED PIN A	[M]	Q304	RVTDTC143XST	TRANSISTOR	[M]
20	RKK347ZB-K	BATTERY COVER	[M]	56	RMS0350	FIXED PIN B	[M]	Q305	2SA1309ARTA	TRANSISTOR	[M]
21	RKQ0210A-K1	TOP CABINET	[M]	57	RMR0698-K	TRAVERSE CHASSIS	[M]	Q601	2SC2785FTA	TRANSISTOR	[M]
22	RMAX0026	MECHA BRACKET	[M]	58	XTN2+6G	SCREW	[M]	Q602	2SC2785FTA	TRANSISTOR	[M]
23	RMB0490	CASS. OPEN SPRING	[M]	59	XTV2+6G	SCREW	[M]	Q603	RVTDTA143XST	TRANSISTOR	[M]
24	RMB0491	CD OPEN SPRING (R)	[M]	61	REX0861	DECK TO MAIN WIRE	[M]	Q604	2SC2785FTA	TRANSISTOR	[M]
25	RMB0492	CD CLAMPER SPRING	[M]	62	RKW0499-Q	MEGA LED WINDOW	[M]	Q605	2SC2785FTA	TRANSISTOR	[M]
26	RMB0498	CD OPEN SPRING (L)	[M]	63	RMR1061-X	CONNECTOR HOLDER	[M]	Q606	2SA952LTA	TRANSISTOR	[M]
27	RMC0312	R/P PLATE	[M]	64	RMV0132	SAFETY COVER	[M]	Q607	2SC2785FTA	TRANSISTOR	[M]
28	RMC0325	CD TRAY OPEN SPRING	[M]	65	RSC0470	MICON SHIELD	[M]	Q608	2SB1566E	TRANSISTOR	[M] ⁄r
30	RMK0337	CD SUPPORT	[M]	66	XTW3+12Q	SP. MOUNTING SCREW	[M]	Q609	2SC2785FTA	TRANSISTOR	[M]
31	RMK0338	PCB CHASSIS	[M]		-	· .		Q610	RVTDTA143XST	TRANSISTOR	[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
Q611	RVTDTA114YST	TRANSISTOR	[M]	D624	1SS254TA	DIODE	[M]	CN702	RJS1A6823-J	23P FPC CONNECTOR	[M]
Q612	RVTDTC114YST	TRANSISTOR	[M]	D625	1SS254TA	DIODE	[M]	CP301	RJP12G17ZA	HEAD CONNECTOR	[M]
Q613	RVTDTA143XST	TRANSISTOR	[M]	D626	1SS254TA	DIODE	[M]	CP303 RJP12G18ZA		CTRL TO MAIN CONN.	[M]
Q614	RVTDTC114TST	TRANSISTOR	[M]	D627	1SS254TA	DIODE	[M]	CP603A RJP4G4YA		LEAF SW 4P POST	[M]
Q615	2SC2785FTA	TRANSISTOR	[M]	D629	MTZJ15BTA	DIODE	[M]	CP603B RJT060B04		4P CONNECTOR (SP)	[M]
Q616	2SC2785FTA	TRANSISTOR	[M]	D631	MA700TA	DIODE	[M]	CP604	RJP7G4YA	7P PLUG IN CONNECTOR	[M]
Q617	RVTDTC144EST	TRANSISTOR	[M]	D802	SLR342DC	DIODE	[M]				
Q618	RVTDTA143XST	TRANSISTOR	[M]	D803	SPR54MVWF	DIODE	[M]			COILS & TRANSFORME	RS
Q619	RVTDTA143XST	TRANSISTOR	[M]	D804	SLR342DC	DIODE	[M]				
Q621	2SC2785FTA	TRANSISTOR	[M]	D901	1N5402BM21	DIODE	[M]	L1	RL02B012-T	COIL	[M]
Q622	RVTDTC143XST	TRANSISTOR	[M]	D902	1N5402BM21	DIODE	[M]	L3	RLV2C032-0	F. ANT	[M]
Q623	2SC2785FTA	TRANSISTOR	[M]	D903	1N5402BM21	DIODE	[M]	L5	RLQZP8R2JT-Y	COIL	[M]
Q624	2SC2001LTA	TRANSISTOR	[M]	D904	1N5402BM21	DIODE	[M]	L8	ELEXT101KA9	AXIAL COIL	[M]
Q625	RVTDTC144TST	TRANSISTOR	[M]					L401	RLL500050T-Y	RF CHOKE COIL	[M]
		· · · · · · · · · · · · · · · · · · ·				VARIABLE RESISTORS		L501	RLL500050T-Y	RF CHOKE COIL	[M]
		DIODES						L601	RLQZP2R2KT-Y	AXIAL COIL	[M]
				VR301	EVNDCAA03B24	VR, TAPE SPEED	[M]	L608	RLQZP2R2KT-Y	AXIAL COIL	[M]
D1	KV1360NT	DIODE	[M]					L609	RLQZP2R2KT-Y	AXIAL COIL	[M]
D3	KV1583BMTL	DIODE	[M]			TRIMMER		L610	RLQZP2R2KT-Y	AXIAL COIL	[M]
D4	KV1360NT	DIODE	[M]					L611	RLQZP2R2KT-Y	AXIAL COIL	[M]
D8	1SS254TA	DIODE	[M]	СТ1	RCV10AF1T-S	TRIMMER CAPACITOR	[M]	L612	RLQZP2R2KT-Y	AXIAL COIL	[M]
D11	RVD1SS135TA	DIODE	[M]					L613	RLQZP2R2KT-Y	AXIAL COIL	[M]
D301	1SS254TA	DIODE	[M]			SWITCHES		L614	RLQZP2R2KT-Y	AXIAL COIL	[M]
D302	1SS254TA	DIODE	[M]	Territoria di Statucci di Scott da Scherer				L616	RLQZP2R2KT-Y	AXIAL COIL	[M]
D303	1SS254TA	DIODE	[M]	S901	RJJ1SE01-H	SW, AC IN (JK901)	[M] /	L617	RLQZP2R2KT-Y	AXIAL COIL	[M]
D304	1SS254TA	DIODE	[M]	SW301	RSP2F001-A	REC. SWITCH	[M]	L618	RLL500050T-Y	RF CHOKE COIL	[M]
D601	1SS254TA	DIODE	[M]	SW302	RSH1A013-21	SW, FF/CUE (DECK 2)	[M]	L619	RLQZP2R2KT-Y	AXIAL COIL	[M]
D602	1SS254TA	DIODE	[M]	SW303	RSH1A004-1	SW, PLAY (DECK 2)	[M]	L620	RLQZP2R2KT-Y	AXIAL COIL	[M]
D603	1SS254TA	DIODE	[M]	SW304	RSH1A004-1	SW, FF/REW (DECK 2)	[M]	L621	RLQZP2R2KT-Y	AXIAL COIL	[M]
D604	1SS254TA	DIODE	[M]	SW312	RSH1A013-21	SW, FF/CUE (DECK 1)	[M]	L622	RLQZP2R2KT-Y	AXIAL COIL	[M]
D605	1SS254TA	DIODE	[M]	SW313	RSH1A004-1	SW, PLAY (DECK 1)	[M]	L901	RLL500050T-Y	RF CHOKE COIL	[M]
D606	1SS254TA	DIODE	[M]	SW314	RSH1A004-1	SW, FF/REW (DECK 1)	[M]	L902	RLL500050T-Y	RF CHOKE COIL	[M]
D607	1SS254TA	DIODE	[M]	SW601	RSS3D002-B	FUNCTION SWITCH	[M]	L903	RLL500050T-Y	RF CHOKE COIL	[M]
D608	1SS254TA	DIODE	[M]	SW602	RSH1A037-U	LEAF SW	[M]	Τ1	RLI2Z019-T	IFT (459KHZ)	[M]
D609	1SS254TA	DIODE	[M]	SW801	EVQ21405R	SW, PRESET EQ	[M]	T301	RL09B17-T	COIL	[M]
D610	MTZJ5R6CTA	DIODE	[M],	SW802	EVQ21405R	SW, POWER BLASTER	[M]	T901	RTP1L1B009-X	TRANSFORMER	[M] <u>/</u>
D611	1SS254TA	DIODE	[M]	SW803	EVQ21405R	SW, SKIP/SEARCH (-)	[M]	1			
D612	1N5402BM21	DIODE	[M]	SW804	EVQ21405R	SW, SKIP/SEARCH (+)	[M]			COMPONENT COMBINA	TION
D613	1SS254TA	DIODE	[M]	SW806	EVQ21405R	SW, CD STOP/CLEAR	[M]				
D614	1SS254TA	DIODE	[M]	SW807	EVQ21405R	SW, CD PLAY/PAUSE	[M]	Z1	RXABPWB6AT	BAND PASS FILT	[M]
D615	1SS254TA	DIODE	[M]	SW808	EVQ21405R	SW, BAND	[M]	Z601	RSL5162-L	LCD	[M]
D616	MA700TA	DIODE	[M]	SW809	EVQ21405R	SW, SLEEP(TUNER/CD	[M]	Z801	RCD12042TE	REM. CONTROL SENSOF	[M]
D618	1SS254TA	DIODE	[M]	SW810	EVQ21405R	SW, VOLUME -	[M]				
D619	MTZJ6R8BTA	DIODE	[M]	SW811	EVQ21405R	SW, VOLUME +	[M]	1		CERAMIC FILTERS	
D620	MTZJ7R5CTA	DIODE	[M] ⁄r								
D621	1SS254TA	DIODE	[M]			CONNECTORS		CF1	RLFFETMLA02D	CERAMIC FILTER	[M]
D622	SLA362MTTJ7	DIODE	[M]					CF2	RLFFETMLA02D	CERAMIC FILTER	[M]
D623	SLA362MTTJ7	DIODE	[M]	CM605	RJS1A5210	10 PINS WIRE HOLDER	[M]	CF3	RLFDFT14AD	FM RESONATOR	[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
		OSCILLATORS				< SERVO P.C.B. >					
						INTEGRATEDCIRCUITS					
X1	RSXZ456KM01	19KHZ OSC	[M]	-							
	RSXC7M20S04T	XTAL 7.2MHZ	[M]	IC701	AN8835SBE1	IC, SERVO AMP.	[M]		······································		
X601	EF0EN4194T4	CERALOCK	[M]	IC702	MN662741RPA	IC, DIGITAL LSI	[M]				
X602	RSXD32K7S02		[M]	IC703	AN8389SE1	IC, COIL/MOTOR DRIVE	[M]				
		FUSES									
						TRANSISTOR					
F901	XBA2C50TB0	FUSE	[M] <u>/</u>								
F902	XBA2C31TB0	FUSE	[M]	Q701	2SB709S	TRANSISTOR	[M]				
		FUSE HOLDERS				SWITCH					
		· · · · · · · · · · · · · · · · · · ·									
FH901	RJR0169T	FUSE HOLDER	[M]	S701	RSM0006-P	SW, RESET	[M]			-	
FH902	RJR0169T	FUSE HOLDER	[M]								
FH903	RJR0169T	FUSE HOLDER	[M]			CONNECTORS					
FH904	RJR0169T	FUSE HOLDER	[M]			· · · · · · · · · · · · · · · · · · ·					
				CN701	RJU035T016-1	16P FFC CONNECTOR	[M]				
		FUSE PROTECTOR		CN702	RJS1A6723-1Q	23P FFC CONNECTOR	[M]				
FP901	RSFMB50KT-L	FUSE PROTECTOR	[M]			OSCILLATOR					
	an a										
		JACKS		X701	RSXZ16M9M01T	CERAMIC OSC	[M]				
JK601	RJJ39T01	JK, HP	[M]								
JK901	RJJ1SE01-H	JK, AC IN	[M]								
		s.									
		PACKINGMATERIALS									
P1	RPG3137	GIFT BOX	[M](EG)								
P1	RPG3318	GIFT BOX	[M](E)								
P1	RPG3336	GIFT BOX	[M](EB)								
P2	RPH0131	MIRAMAT SHEET	[M]								
P3	RPN1032	POLYFOAM	[M]								
P4	RPN1057	POLYFOAM (CENTRE)	[M]								
		ACCESSORIES									
A1	RAK-RX928WK	REMOTE CONTROL	[M]								
A1-1	HTR0212-72PW	R/C BATTERY COVER	[M]								
A2	RFKSXDT37EGK	INSTRUCTION MANUAL	[M](EG)			· · · ·					
A2	RFKSXDT37EK	INSTRUCTION MANUAL	[M](E)								
A2	RQT3619-B	INSTRUCTION MANUAL	[M](EB)							-	
AЗ	RJA0019-2K	AC CORD (SF)	[M](E,EG)								
AЗ	VJA0733		[VRD](EB)								

Resistors & Capacitors

Notes : • Important 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.

The parenthesized indications in the Remarks column specify the areas. (refer to the cover page for area.) ٠

Parts without these indications can be used for all areas. [M] indicates in Remarks column parts that are supplied by MESA. ٠

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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 & Rema	s Ref No	. Part No.	Values	& Remarks	Ref No	. Part No.	Values	& Remarks	Ref No.	Part No.	Values	& Remarks
	RESISTORS		R65	ERDS2TJ470T	47	1/4W[M]	R418	ERDS2TJ103T	10K	1/4W[M]	R627	ERDS2TJ563T	56K	1/4W[M]
			R66	ERDS2TJ332T	3.3K	1/4W[M]	R501	ERDS2TJ152T	1.5K	1/4W[M]	R628	ERDS2TJ223T	22K	1/4W[M]
R1	ERDS2TJ104T	100K 1/4W[I] R101	ERDS2TJ183T	18K	1/4W[M]	R502	ERDS2TJ392T	3.9K	1/4W[M]	R629	ERDS2TJ103T	10K	1/4W[M]
R2	ERDS2TJ332T	3.3K 1/4W[I	I] R102	ERDS2TJ330T	33	1/4W[M]	R503	ERDS2TJ682T	6.8K	1/4W[M]	R630	ERDS2TJ474T	470K	1/4W[M]
RЗ	ERDS2TJ104T	100K 1/4W[I	I] R103	ERDS2TJ472T	4.7K	1/4W[M]	R504	ERDS2TJ152T	1.5K	1/4W[M]	R631	ERDS2TJ564T	560K	1/4W[M]
R4	ERDS2TJ103T	10K 1/4W[I	I] R105	ERDS2TJ682T	6.8K	1/4W[M]	R505	ERDS2TJ472T	4.7K	1/4W[M]	R632	ERDS2TJ471T	470	1/4W[M]
R5	ERDS2TJ103T	10K 1/4W[I	I] R106	ERDS2TJ103T	10K	1/4W[M]	R506	ERDS2TJ822T	8.2K	1/4W[M]	R633	ERDS2TJ101T	100	1/4W[M]
R6	ERDS2TJ152T	1.5K 1/4W[I	I] R107	ERDS2TJ272T	2.7K	1/4W[M]	R507	ERDS2TJ682T	6.8K	1/4W[M]	R634	ERDS2TJ1R0T	1	1/4W[M]
R7	ERDS2TJ330T	33 1/4W[I	I] R201	ERDS2TJ183T	18K	1/4W[M]	R508	ERDS2TJ822T	8.2K	1/4W[M]	R635	ERDS2TJ182T	1.8K	1/4W[M]
R8	ERDS2TJ104T	100K 1/4W[I	I] R202	ERDS2TJ330T	33	1/4W[M]	R511	ERDS2TJ2R2T	2.2	1/4W[M]	R636	ERDS2TJ392T	3.9K	1/4W[M]
R9	ERDS2TJ471T	470 1/4W[I	I] R203	ERDS2TJ472T	4.7K	1/4W[M]	R514	ERDS2TJ2R2T	2.2	1/4W[M]	R637	ERDS2TJ224T	220K	1/4W[M]
R10	ERDS2TJ102T	1K 1/4W[I	I] R205	ERDS2TJ682T	6.8K	1/4W[M]	R516	ERDS2TJ181T	180	1/4W[M]	R638	ERDS2TJ102T	1K	1/4W[M]
R11	ERDS2TJ103T	10K 1/4W[I	I] R206	ERDS2TJ103T	10K	1/4W[M]	R517	ERDS2TJ223T	22K	1/4W[M]	R639	ERDS2TJ154T	150K	1/4W[M]
R12	ERDS2TJ223T	22K 1/4W[I	I] R207	ERDS2TJ272T	2.7K	1/4W[M]	R518	ERDS2TJ103T	10K	1/4W[M]	R640	ERDS2TJ224T	220K	1/4W[M]
R13	ERDS2TJ153T	15K 1/4W[I	I] R301	ERDS2TJ272T	2.7K	1/4W[M]	R601	ERDS2TJ224T	220K	1/4W[M]	R641	ERDS2TJ153T	15K	1/4W[M]
R14	ERDS2TJ103T	10K 1/4W[I	I] R303	ERDS2TJ221T	220	1/4W[M]	R602	ERDS2TJ224T	220K	1/4W[M]	R642	ERDS2TJ153T	15K	1/4W[M]
R15	ERDS2TJ223T	22K 1/4W[I	I] R304	ERDS2TJ100T	10	1/4W[M]	R603	ERDS2TJ224T	220K	1/4W[M]	R643	ERDS2TJ103T	10K	1/4W[M]
R16	ERDS2TJ105T	1M 1/4W[I	I] R305	ERDS2TJ563T	56K	1/4W[M]	R604	ERDS2TJ223T	22K	1/4W[M]	R644	ERDS2TJ151T	150	1/4W[M]
R17	ERDS2TJ103T	10K 1/4W[I	I] R306	ERDS2TJ681T	680	1/4W[M]	R605	ERDS2TJ823T	82K	1/4W[M]	R645	ERDS2TJ122T	1.2K	1/4W[M]
R18	ERDS2TJ223T	22K 1/4W[I	I] R307	ERDS2TJ222T	2.2K	1/4W[M]	R606	ERDS2TJ823T	82K	1/4W[M]	R646	ERDS2TJ331T	330	1/4W[M]
R19	ERDS2TJ101T	100 1/4W[I	I] R308	ERDS2TJ475T	4.7M	1/4W[M]	R607	ERDS2TJ104T	100K	1/4W[M]	R647	ERDS2TJ103T	10K	1/4W[M]
R20	ERDS2TJ151T	150 1/4W[I	I] R309	ERDS2TJ101T	100	1/4W[M]	R608	ERDS2TJ334T	330K	1/4W[M]	R648	ERDS2TJ1R2T	1.2	1/4W[M]
R21	ERDS2TJ104T	100K 1/4W[I	I] R310	ERDS2TJ153T	15K	1/4W[M]	R609	ERDS2TJ106T	10M	1/4W[M]	R649	ERDS2TJ1R2T	1.2	1/4W[M]
R22	ERDS2TJ331T	330 1/4W[I	I] R311	ERDS2TJ473T	47K	1/4W[M]	R610	ERDS2TJ104T	100K	1/4W[M]	R650	ERDS2TJ471T	470	1/4W[M]
R24	ERDS2TJ471T	470 1/4W[I	I] R312	ERDS2TJ153T	15K	1/4W[M]	R611	ERDS2TJ472T	4.7K	1/4W[M]	R651	ERDS2TJ122T	1.2K	1/4W[M]
R25	ERDS2TJ104T	100K 1/4W[I	I] R316	ERDS2TJ123T	12K	1/4W[M]	R612	ERDS2TJ472T	4.7K	1/4W[M]	R652	ERDS2TJ471T	470	1/4W[M]
R26	ERDS2TJ102T	1K 1/4W[I	I] R317	ERDS2TJ123T	12K	1/4W[M]	R613	ERDS2TJ224T	220K	1/4W[M]	R653	ERDS2TJ271T	270	1/4W[M]
R27	ERDS2TJ102T	1K 1/4W[I	I] R318	ERDS2TJ473T	47K	1/4W[M]	R614	ERDS2TJ104T	100K	1/4W[M]	R654	ERDS2TJ103T	10K	1/4W[M]
R28	ERDS2TJ334T	330K 1/4W[I	I] R401	ERDS2TJ152T	1.5K	1/4W[M]	R615	ERDS2TJ104T	100K	1/4W[M]	R655	ERDS2TJ103T	10K	1/4W[M]
R29	ERDS2TJ331T	330 1/4W[I	I] R402	ERDS2TJ392T	3.9K	1/4W[M]	R616	ERDS2TJ104T	100K	1/4W[M]	R656	ERDS2TJ103T	10K	1/4W[M]
R30	ERDS2TJ822T	8.2K 1/4W[I	I] R403	ERDS2TJ682T	6.8K	1/4W[M]	R617	ERDS2TJ224T	220K	1/4W[M]	R657	ERDS2TJ223T	22K	1/4W[M]
R31	ERDS2TJ472T	4.7K 1/4W[I	I] R404	ERDS2TJ152T	1.5K	1/4W[M]	R618	ERDS1FVJ2R7T	2.7	1/2W[M]	R658	ERDS2TJ153T	15K	1/4W[M]
R41	ERDS2TJ301T	300 1/4W[I	I] R405	ERDS2TJ472T	4.7K	1/4W[M]	R619	ERDS2TJ153T				ERDS2TJ103T	10K	1/4W[M]
R47	ERDS2TJ332T	3.3K 1/4W[I	I] R406	ERDS2TJ822T	8.2K	1/4W[M]	R620	ERDS2TJ153T	15K	1/4W[M]	R660	ERDS2TJ102T	1K	1/4W[M]
R49	ERDS2TJ103T	10K 1/4W[I	I] R407	ERDS2TJ682T	6.8K	1/4W[M]	R621	ERDS2TJ153T	15K	1/4W[M]	R661	ERDS2TJ124T	120K	1/4W[M]
R52	ERDS2TJ223T	22K 1/4W[I	I] R408	ERDS2TJ822T	1	1/4W[M]		ERDS2TJ681T	680			ERDS2TJ123T	12K	1/4W[M]
R59	ERDS2TJ471T	470 1/4W[I	I] R411	ERDS2TJ2R2T	2.2	1/4W[M]	R623	ERDS2TJ152T	1.5K	1/4W[M]	R663	ERDS2TJ103T	10K	1/4W[M]
R61	ERDS2TJ103T	10K 1/4W[I	I] R414	ERDS2TJ2R2T	2.2	1/4W[M]		ERDS2TJ392T				ERDS2TJ103T	10K	1/4W[M]
R62	ERDS2TJ471T	470 1/4W[I	I] R416	ERDS2TJ181T	180	1/4W[M]	R625	ERDS2TJ392T	3.9K	1/4W[M]	R665	ERDS2TJ1R2T	1.2	1/4W[M]
R64	ERDS2TJ332T	3.3K 1/4W[I	I] R417	ERDS2TJ223T	22K	1/4W[M]	R626	ERDS2TJ103T	10K	1/4W[M]	R666	ERDS2TJ473T	47K	1/4W[M]

Ref No	Part No.	Values	& Remarks	Ref No	Part No.	Values	& Remarks	Ref No.	Part No.	Values	& Remar	s Ref No	Part No.	Values a	& Ren	narks
R667	ERDS2TJ563T	56K	1/4W[M]	R820	ERDS2TJ152T	1.5K	1/4W[M]	C60	ECEA1AKA220B	22	101/ 10	I] C309	ECFR1C473MR	0.047	161/	[6,4]
R668	ERDS2TJ472T	4.7K	1/4W[M]	R821	ERDS2TJ473T	47K	1/4W[M]	C61	ECBT1C332MR5		216V [N		ECEA1CKA100B	<u> </u>	16V	- 1
	ERDS2TJ271T	270	1/4W[M]	R901	ERDS2TJ271T	270	1/4W[M]	C62	RCBS1H102KBY		·····	-1⊢	ECEA1AKA220B		107	
R670	ERDS2TJ472T	4.7K	1/4W[M]	R902	ERDS2TJ683T	68K	1/4W[M]	C63	ECBT1H681KB5	<u> </u>		C312	ECEA1AKA101B	100	10V	
R671	ERDS2TJ101T	100	1/4W[M]	R903	ERDS2TJ272T	2.7K	1/4W[M]	C67	ECFR1C223MR		16V [N		ECEA1EKA470B		25V	
R672	ERDS2TJ105T	1M	1/4W[M]		· · · · · · · · · · · · · · · · · · ·			C68	ECEA1HKA010B		50V [N		ECEA1AKA330B	<u> </u>	10V	
R673	ERDS2TJ224T	220K	1/4W[M]		CAPACITORS			C69	ECFR1C183MR		16V [N		ECEA1HKA3R3B		50V	
R674	ERDS2TJ224T	· · · ·	1/4W[M]					C70	ECFR1C183MR		16V [N				16V	<u> </u>
R675	ERDS2TJ393T	39K	1/4W[M]	СЗ	ECFR1C473MR	0.047	16V [M]	C71	ECEA1HKA2R2B	2.2	50V [N	C403	ECFR1C683MR	0.068		
R676	ERDS2TJ224T	220K	1/4W[M]	C4	RCBS1H102KBY	1000F	50V [M]	C72	ECEA1HKA010B	1	50V [N	-] C404	ECFR1C473MR	0.047	16V	[M]
R677	ERDS2TJ332T	3.3K	1/4W[M]	C5	ECBT1H2R2KC5	2.2P	50V [M]	C74	ECBT1H471KB5	470P	50V [N	[] C405	ECBT0J223MS5	0.022	6.3V	[M]
R678	ERDS2TJ563T	56K	1/4W[M]	C6	RCBS1H102KBY	1000F	50V [M]	C75	ECEA1HKA010B	1	50V [N	J C406	ECEA1HKAR22B	0.22	50V	[M]
R679	ERDS2TJ823T	82K	1/4W[M]	C9	ECEA1HKN010B	1	50V [M]	C76	ECEA1HKA010B	1	50V [N	I] C407	ECEA1CU100B	10	16V	[M]
R681	ERDS2TJ101T	100	1/4W[M]	C10	ECBT1C332MR5	3300F	16V [M]	C77	ECEA1HKA010B	1	50V [N	J C408	ECBT1H221KB5	220P	50V	[M]
R682	ERDS2TJ823T	82K	1/4W[M]	C11	ECEA1AKA101B	100	10V [M]	C80	ECBT1H331KB5	330P	50V [N	I] C411	ECBT1H471KB5	470P	50V	[M]
R683	ERDS2TJ104T	100K	1/4W[M]	C12	ECFR1C223MR	0.022	16V [M]	C81	ECBT1H331KB5	330P	50V [N] C413	ECBT1H102KB5	1000P	, 50V	[M]
R684	ERDS2TJ151T	150	1/4W[M]	C13	ECFR1C103MR	0.01	16V [M]	C82	ECBT1H150JC5	15P	50V [N	I] C414	ECQV1H224JZ3	0.22	50V	[M]
R686	ERDS2TJ152T	1.5K	1/4W[M]	C14	ECBT1C103MS5	0.01	16V [M]	C83	ECBT1H331KB5	330P	50V [N	[] C415	ECQV1H224JZ3	0.22	50V	[M]
R687	ERDS2TJ272T	2.7K	1/4W[M]	C15	ECBT1H3R9KC5	3.9P	50V [M]	C84	ECBT1C103MS5	0.01	16V [N	I] C501	ECEA1HKA3R3B	3.3	50V	[M]
R688	ERDS2TJ221T	220	1/4W[M]	C16	RCBS1H102KBY	1000F	50V [M]	C85	ECBT1C103MS5	0.01	16V [N	I] C502	ECEA1CKA100B	10	16V	[M]
R690	ERDS2TJ270T	27	1/4W[M]	C17	RCBS1H102KBY	1000F	50V [M]	C86	ECBT1H331KB5	330P	50V [N] C503	ECFR1C683MR	0.068	16V	[M]
R691	ERDS2TJ103T	10K	1/4W[M]	C18	ECBT1H200JC5	20P	50V [M]	C87	ECBT1C103MS5	0.01	16V [N] C504	ECFR1C473MR	0.047	16V	[M]
R692	ERDS2TJ103T	10K	1/4W[M]	C19	ECBT1H220JC5	22P	50V [M]	C88	ECBT1C103MS5	0.01	16V [N] C505	ECBT0J223MS5	0.022	6.3V	[M]
R693	ERDS2TJ153T	15K	1/4W[M]	C20	RCBS1H102KBY	1000F	50V [M]	C89	ECBT1H101KB5	100P	50V [N] C506	ECEA1HKAR22B	0.22	50V	[M]
R694	ERDS2TJ101T	100	1/4W[M]	C21	ECEA1AKA101B	100	10V [M]	C102	ECBT1C122MR5	1200F	916V [N] C507	ECEA1CU100B	10	16V	[M]
R695	ERDS2TJ472T	4.7K	1/4W[M]	C22	RCBS1H102KBY	1000F	50V [M]	C103	ECBT1H102KB5	1000F	950V [N] C508	ECBT1H221KB5	220P	50V	[M]
R696	ERDS2TJ124T	120K	1/4W[M]	C23	RCBS1H102KBY	1000F	50V [M]	C104	ECEA1CKA100B	10	16V [N	C511	ECBT1H471KB5	470P	50V	[M]
R697	ERDS2TJ102T	1K	1/4W[M]	C24	RCBS1H102KBY	1000F	50V [M]	C105	ECBT1H102KB5	1000F	950V [N	C513	ECBT1H102KB5	1000P	' 50V	[M]
	ERDS2TJ332T		1/4W[M]	C25	ECBT1H150JC5	15P	50V [M]	C106	ECEA0JKA101B	100	6.3V [N	-	ECQV1H224JZ3	0.22		
		220K	1/4W[M]	C26					ECFR1C273MR	0.027	16V [N	C515	ECQV1H224JZ3	0.22	50V	[M]
R801	ERDS2TJ153T	15K	1/4W[M]	C27	ECBT1H4R7KC5				ECBT1H471KB5	470P	50V [N	[] C601	ECEA1CKA100B	10	16V	[M]
R802	ERDS2TJ103T		1/4W[M]	C28	RCBS1H102KBY				ECEA1HKA010B		50V [N		ECBT1C103MS5	0.01	16V	[M]
	ERDS2TJ153T	 	1/4W[M]		RCBS1H102KBY				ECBT1C332MR5	3300F	P 16V [N] C603	ECBT1H561KB5	560P	50V	[M]
	ERDS2TJ333T		· ·		RCBS1H102KBY				ECBT1C122MR5				ECBT1C103MS5	0.01	16V	[M]
R806	ERDS2TJ152T		1/4W[M]	C32	ECBT1H101KB5		50V [M]	C203	ECBT1H102KB5	1000F	950V [N		ECBT1H180JC5	18P	50V	
	ERDS2TJ222T		1/4W[M]		ECBT1H101KB5			C204	ECEA1CKA100B	10	16V [N		ECBT1H220JC5	22P	50V	[M]
R808	ERDS2TJ682T		1/4W[M]	C34	ECBT1H680J5	68P	50V [M]		ECBT1H102KB5		950V [N		ECBT1C103MS5		16V	
R809	ERDS2TJ562T		1/4W[M]		ECBT1H1R5MC5		50V [M]		ECEA0JKA101B		6.3V [N	-			6.3V	
	ERDS2TJ822T			·····	RCBS1H102KBY				ECFR1C273MR		16V [N		ECBT1H471KB5	470P		
-	ERDS2TJ153T	15K	1/4W[M]		RCBS1H102KBY			C208	ECBT1H471KB5		50V [N		ECEA1HKA010B	1	50V	
	ERDS2TJ102T	1K		C38			50V [M]	C209	ECEA1HKA010B		50V [N		ECBT1H102KB5	1000P		
	ERDS2TJ181T	180	1/4W[M]		ECBT1C103MS5			C210	ECBT1C332MR5		216V [N			1000P		
R814	ERDS2TJ151T	150	1/4W[M]	C40	ECBT1C103MS5			C301	ECQP2A151JZT	<u> </u>	100V[N				50V	
	ERDS2TJ151T	150		C44	ECEA1AU101B	100	10V [M]	C302	ECBT1C103MS5				ECBT1H680J5	68P	50V	
	ERDS2TJ473T	47K	1/4W[M]		ECFR1C223MR		16V [M]		ECQP1102JZT		2 100V[N		ECBT1H101KB5	100P		
R817	ERDS2TJ473T	47K	1/4W[M]	C48	ECEA0JU101B	100	6.3V [M]	C306	ECEA1AU101B		10V [N		ECBT1H820KB5	82P	50V	
	ERDS2TJ270T	27	1/4W[M]		ECERICIZED	1	50V [M]		ECBT1C822MS5				ECBT1H561KB5		50V	
н819	ERDS2TJ472T	4.7K	1/4W[M]	C52	ECFR1C473MR	0.047	16V [M]	C308	ECBT1C103MS5	0.01	16V [N	C619	ECBT1H561KB5	560P	50V	[M]

Ref No.	Part No.	Values	&Ren	narks	Ref No.	Part No.	Value	s & Remarks	Ref No.	Part No.	Values	& Remarks	Ref No.	Part No.	Values & Remarks
C620	ECBT1H561KB5	560P	50V	[M]		<servo p.c.b.=""></servo>				CAPACITORS				CHIP JUMPERS	
C621	ECBT1H561KB5	560P	50V	[M]		RESISTORS									
C622	ECBT1H221KB5	220P	50V	[M]					C701	ECEA0JKA330I	33	6.3V [M]	RJ701	ERJ8GEY0R00A	0 1/8W[M]
C623	ECBT1H221KB5	220P	50V	[M]	R701	ERJ6GEYJ4R7V	4.7	1/10W[M]	C702	ECUZNE104MBN	0.1	25V [M]	RJ702	ERJ8GEY0R00A	0 1/8W[M]
C624	ECA1VM332E	3300/	∱\35V	' [M]	R703	ERJ6GEYJ823	82K	1/10W[M]	C703	ECEA0JKA1011	100	6.3V [M]	RJ703	ERJ8GEY0R00A	0 1/8W[M]
C625	ECA1EM332E	3300/	€ 1 25V	′ [M]	R704	ERJ6GEYJ102V	1K	1/10W[M]	C704	ECUZNE104MBN	0.1	25V [M]	RJ704	ERJ8GEY0R00A	0 1/8W[M]
C626	ECEA1CKA100B	10	16V	[M]	R705	ERJ6GEYJ103V	10K	1/10W[M]	C705	ECUZNE104MBN	0.1	25V [M]	RJ707	ERJ8GEY0R00A	0 1/8W[M]
C628	ECEA1CKA100B	10	16V	[M]	R706	ERJ6GEYJ102V	1K	1/10W[M]	C706	ECUV1H272KBN	2700F	950V [M]	RJ709	ERJ8GEY0R00A	0 1/8W[M]
C629	ECQV1H105JZ3	10	50V	[M]	R707	ERJ6GEYJ474V	470K	1/10W[M]	C707	ECUV1E273KBN	0.027	25V [M]	RJ714	ERJ8GEY0R00A	0 1/8W[M]
C630	ECEA1CKA100B	10	16V	[M]	R708	ERJ6GEYJ154V	150K	1/10W[M]	C708	ECUV1H472KBN	4700F	950V [M]	RJ715	ERJ8GEY0R00A	0 1/8W[M]
C631	ECEA1CKA100B	10	16V	[M]	R709	ERJ6GEYJ683V	68K	1/10W[M]	C709	ECUV1C473KBN	0.047	16V [M]	RJ716	ERJ8GEY0R00A	0 1/8W[M]
C632	ECFR1C104MR	0.1	16V	[M]	R711	ERJ6GEYJ154V	150K	1/10W[M]	C710	ECUV1H182KBN	1800F	950V [M]	RJ717	ERJ8GEY0R00A	0 1/8W[M]
C633	ECEA1EU100B	10	25V	[M]	R712	ERJ6GEYJ221V	220	1/10W[M]	C711	ECUZNE104MBN	0.1	25V [M]	RJ721	ERJ8GEY0R00A	0 1/8W[M]
C634	ECEA1EU101B	100	25V	[M]	R717	ERJ6GEYJ102V	1K	1/10W[M]	C712	ECUZNE104MBN	0.1	25V [M]	RJ722	ERJ8GEY0R00A	0 1/8W[M]
C635	ECQV1H224JZ3	0.22	50V	[M]	R718	ERJ6GEYJ102V	1K	1/10W[M]	C713	ECUV1C104MBM	0.1	16V [M]	RJ723	ERJ8GEY0R00A	0 1/8W[M]
C636	ECEA1HKA010B	1	50V	[M]	R719	ERJ6GEYJ102V	1K	1/10W[M]	C714	ECEA0JKA101I	100	6.3V [M]	RJ724	ERJ8GEY0R00A	0 1/8W[M]
C637	ECEA1EU330B	33	25V	[M]	R720	ERJ6GEYJ102V	1K	1/10W[M]	C716	ECUV1H561KBN	560P	50V [M]	RJ725	ERJ8GEY0R00A	0 1/8W[M]
C638	ECEA1CU100B	10	16V	[M]	R721	ERJ6GEYJ101V	100	1/10W[M]	C717	ECUZNE104MBN	0.1	25V [M]	RJ726	ERJ8GEY0R00A	0 1/8W[M]
C639	ECEA1CU100B	10	16V	[M]	R722	ERJ6GEYJ563V	56K	1/10W[M]	C718	ECUV1C224KBN	0.22	16V [M]	RJ727	ERJ8GEY0R00A	0 1/8W[M]
C640	ECEA1AKA101B	100	10V	[M]	R723	ERJ6GEYJ182V	1.8K	1/10W[M]	C721	ECUV1H150JCN	15P	50V [M]	RJ728	ERJ8GEY0R00A	0 1/8W[M]
C641	ECBT1H471KB5	470P	50V	[M]	R724	ERJ6GEYJ333V	33K	1/10W[M]	C722	ECUV1H150JCN	15P	50V [M]	RJ729	ERJ8GEY0R00A	0 1/8W[M]
C642	ECEA0JU101B	100	6.3V	[M]	R725	ERJ6GEYJ472V	4.7K	1/10W[M]	C723	ECEA1AKA221I	220	10V [M]	RJ730	ERJ8GEY0R00A	0 1/8W[M]
C643	ECEA1CKA100B	10	16V	[M]	R726	ERJ6GEYJ473V	47K	1/10W[M]	C724	ECUV1C104MBM	0.1	16V [M]			
C644	ECEA1HKA010B	1	50V	[M]	R727	ERJ6GEYJ822V	8.2K	1/10W[M]	C725	ECUV1H102KBN	1000F	50V [M]		TEST JUMPERS	
C645	ECBT1H101KB5	100P	50V	[M]	R728	ERJ6GEYJ103V	10K	1/10W[M]	C726	ECUV1H102KBN	1000F	950V [M]			
C646	ECEA1EU101B	100	25V	[M]	R731	ERJ6GEYJ822V	8.2K	1/10W[M]	C727	ECEA1HPK010I	1	50V [M]	TJ701	EYF8CU	TEST JUMPER[M]
C647	ECFR1C104MR	0.1	16V	[M]	R734	ERJ6GEYJ101V	100	1/10W[M]	C728	ECEA1HPK010I	1	50V [M]	TJ702	EYF8CU	TEST JUMPER[M]
C648	ECEA1CKA100B	10	16V	[M]	R735	ERJ6GEYJ101V	100	1/10W[M]	C730	ECUZNE104MBN	0.1	25V [M]			
C649	ECBT1H102KB5	1000F	° 50V	[M]	R736	ERJ6GEYJ101V	100	1/10W[M]	C731	ECEA0JKA221I	220	6.3V [M]			
C650	ECBT1C103MS5	0.01	16V	[M]	R738	ERJ6GEYJ223V	22K	1/10W[M]	C732	ECEA0JKA2211	220	6.3V [M]			
C651	ECBT1H330J5	33P	50V	[M]	R741	ERJ6GEYJ562V	5.6K	1/10W[M]	C733	ECUZNE104MBN	0.1	25V [M]			
C652	ECBT1H330J5	33P	50V	[M]	R742	ERJ6GEYJ562V	5.6K	1/10W[M]	C734	ECEA1AKA221I	220	10V [M]			
C653	ECBT1H330J5	33P	50V	[M]	R743	ERJ6GEYJ562V	5.6K	1/10W[M]	C735	ECUZNE104MBN	0.1	25V [M]			
C654	ECEA1CU101B	100	16V	[M]	R744	ERJ6GEYJ103V	10K	1/10W[M]	C736	ECUZNE104MBN	0.1	25V [M]			
C655	ECEA0JU331B	330	6.3V	[M]	R745	ERJ6GEYJ155V	1.5M	1/10W[M]	C737	ECUZNE104MBN	0.1	25V [M]			
C656	ECQV1H224JZ3	0.22	50V	[M]	R748	ERJ6GEYJ182V	1.8K	1/10W[M]	C738	ECUV1C154KBN	0.15	16V [M]			
C657	ECBT1H101KB5	100P	50V	[M]	R749	ERJ6GEYJ682V	6.8K	1/10W[M]	C742	ECUV1E273KBN	0.027	25V [M]			
C658	ECBT1H101KB5	100P	50V	[M]	R750	ERJ6GEYJ473V	47K	1/10W[M]	C743	ECUZNE104MBN	0.1	25V [M]			
C659	ECBT1H101KB5	100P	50V	[M]	R751	ERJ6GEYJ473V	47K	1/10W[M]	C744	ECUV1E822KBN	8200F	25V [M]		· · · · · · · · · · · · · · · · · · ·	
C901	ECKR1H103ZF5	0.01	50V	[M]	R752	ERJ8GEYJ220V	22	1/8W [M]	C745	ECUV1C473MBN	0.047	16V [M]			
C902	ECKR1H103ZF5	0.01	50V	[M]	R770	ERJ6GEYJ155V	1.5M	1/10W[M]	C747	ECUV1H222KBN	2200F	950V [M]			
C903	ECKR1H103ZF5	0.01	50V	[M]	R771	ERJ6GEYJ155V	1.5M	1/10W[M]	C748	ECUV1H471KBM	470P	50V [M]			
C904	ECKR1H103ZF5	0.01	50V	[M]	R772	ERJ6GEYJ273V	27K	1/10W[M]	C749	ECUZNE104MBN	0.1	25V [M]			
C906	ECBT1C103MS5	0.01	16V	[M]					C751	ECUZNE104MBN	0.1	25V [M]			
									C752	ECUV1H152KBN	1500F	50V [M]			
									C753	ECUV1H471KBM	470P	50V [M]			
									C754	ECUV1H471KBN	470P	50V [M]			
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