ervice Manu

Portable Stereo CD System

Radio Cassette



Area

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

MASH is a trademark of NTT.

TAPE DECK: SG20 MECHANISM SERIES

CD SECTION: RAE0152Z-M TRAVERSE DECK SERIES

■ Specifications

■ Radio

Frequency Range

AM

Intermediate Frequency

FΜ

ΑM Sensitivity

FΜ

AM

■ TAPE RECORDER

Track system **Recording System Tape Speed Erasing System**

Monitor System

Frequency range (Normal position)

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

■ CD PLAYER

Sampling frequency

Decoding

Beam source No. of channels

Wow and flutter

Digital filter

D/A converter

20 dB/50 mW 48 dB/m/50 mW

10.7 MHz

459 kHz

AC bias

4.8 cm/s

87.5 - 108 MHz(50 kHz steps)

522 - 1629 kHz(9 kHz steps)

4 track, 2 channel, stereo

Magnet (Multi pole)

60 - 14000 Hz

Variable sound monitor

■ General

Power requirement

AC

Battery

Memory back-up for

computer

Speakers

Jacks Output

Dimensions (W x H xD)

Weight

44.1 kHz

16 - bit linear

Semiconductor laser (wavelength; 780 nm) 2 channel; stereo

less than possible measured data

MASH (1 bit DAC)

230-240V, 50 Hz Power consumption: 48W

12 V (Eight R20/LR20, D, UM-1 batteries)

• Do not use rechargeable type batteries

6V (Four "AA" size, UM-3,R6/LR6 batteries) • Do not use rechargeable type batteries

10 cm 5.4 Ω x 2

Phones: 3.5 mm stereo (16 - 32 Ω)

500 x 146 x 263 mm

4.0 kg without batteries

⚠ WARNING

This service information is designed for experiense 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.

anasonic

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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)

- Do not subject the traverse deck (optical pickup) to static electricity as it is extremely sensitive to electrical shock.
- 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).
- Do not turn the variable resistor (laser power adjustment). It has already been adjusted.

• Grounding for electrostatic breakdown prevention

1. Human body grounding

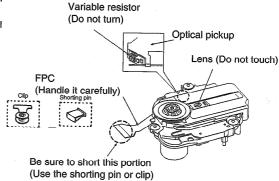
Use the anti-static wrist strap to discharge the static electricity from your body.

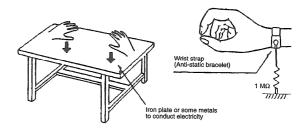
2. Work table grounding

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).





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: 100μW/VDE

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

- 1. Do not disassemble the optical pick up unit, since radiation from exposed laser diode is dangerous.
- 2. Do not adjust the variable resistor on the pick up unit. It was already adjusted.
- 3. Do not look at the focus lens using optical instruments.
- 4. Recommend not to look at pick up lens for a long time.

ACHTUNG:

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

Wellenlänge: 780nm

Maximale strahlungsleistung der lasereinheit : 100μ W/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.

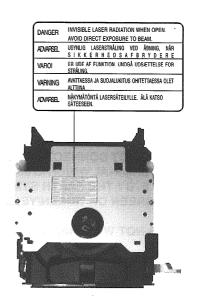
CAUTION!

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





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 $\begin{picture}(60,0) \put(0,0){\line(1,0){100}} \put(0,0){\line(1,0){100}$

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 & OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use

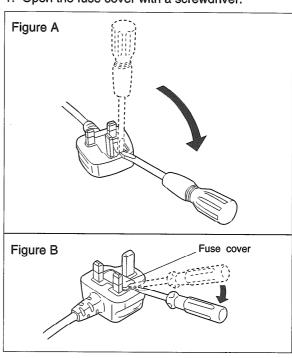
Remove the connector cover.

How to replace the fuse

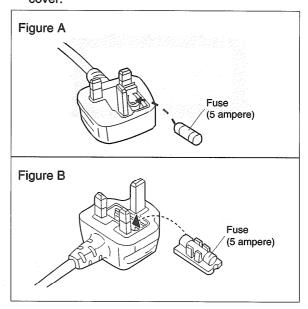
The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.

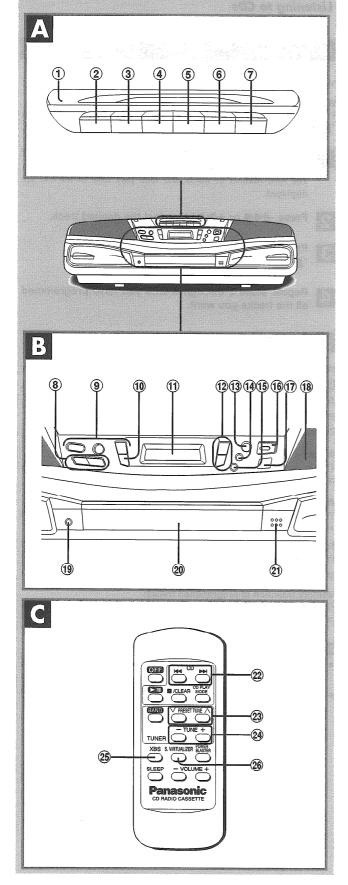
Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.



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





Location of controls

Main unit

Α

Number

Designation

- 1 Deck (Recording/playback)
- 2 Recording button (REC)
- ③ Playback button (▶ PLAY)
- ④ Rewind/review button (◀◀ REW/REV)
- ⑤ Fast forward/cue button (►► FF/CUE)
- ⑤ Stop/eject button (■/♠ STOP/EJECT)
- 7 Pause button (II PAUSE)

В

- Tuning/CD skip, search buttons
 (TUNE/SKIP/SEARCH -/I◀◀, +/I►)
- 9 Function select buttons
 - Tape/power standby button (TAPE/OFF)

Press to switch the unit from on to standby mode or vice versa. In standby mode (refer to 9), the unit is still consuming a small amount of power.

- Tuner/band button (BAND)
- CD play/pause button (►/II)
- CD stop/program clear, tuning mode select button
 CLEAR/TUNE MODE)
- 11 Display panel
- Volume control buttons (VOLUME +, -)
- 13 Sleep timer button (SLEEP)
- (MEMORY)
- Stereo/monaural, beat proof button (FM MODE/BP)
 CD play mode select button
 - CD play mode select buttor (CD PLAY MODE)
- (CD PLAY MODE)

 16 Power blaster button (POWER BLASTER)
- TRemote control signal sensor (SENSOR)
- ® Speaker
- 19 Power/standby/battery indicator (PWR/BATT Φ/I)

The indicator lights green when the unit is turned on.

When the AC power supply is used, it functions as an AC connection indicator. (The indicator colour changes to red when the unit is turned off.)

When the unit is operated on batteries, it functions as a battery check indicator.

- 20 CD tray
- ② CD tray open button (≜ CD OPEN)

Remote control

The functions of the buttons without numbers are same as on the main unit.

C

Number

Designation

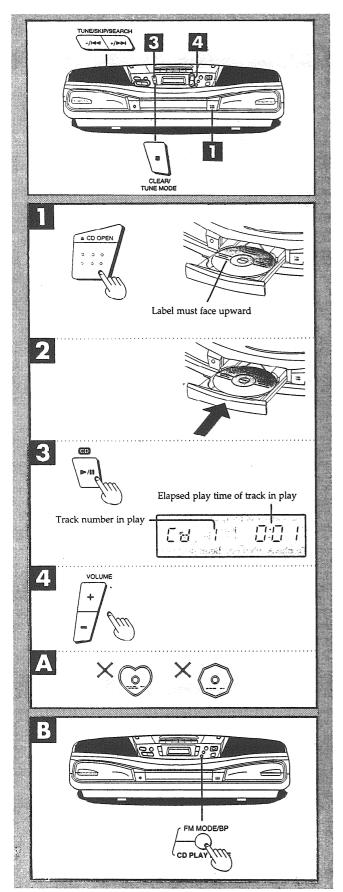
- ② CD skip, search buttons (► ►)
- 23 Preset tuning buttons (4 PRESET TUNE 3)

Press to select the preset channel when presetting radio broadcasts and in preset tuning.

24 Tuning buttons (- TUNE +)

Press to tune in the station when presetting radio broadcasts and in manual tuning.

- 3 XBS button (XBS)
- ® Sound virtualizer button (S.VIRTUALIZER)



Listening to CDs

Program play

You can program up to 24 tracks.

Before operation:

Program play cannot be used in combination with random play. When "FANDOM" is displayed, press CD PLAY MODE to clear the display.

Press @D, then press CLEAR after the track number has been displayed.

The total number of tracks and total play time of the CD are displayed.

- Press -//■ or +/▶▶ to select the desired track.
- Press MEMORY.

 "PGM" is displayed.
- Repeat steps 2 through 3 until you have programmed all the tracks you want.
- Press ►/II.
 Play will start in the programmed sequence.

When all programmed tracks have been played, "Cd-P" and the total play time will be displayed.

To cancel program play:

Press ■ CLEAR in the stop mode to display "CLR".

Pressing ♠ CD OPEN will cancel program play.

When "--:--" appears: B

This means that the total play time of the programmed tracks has exceeded 120 minutes. Tracks can still be programmed and played.

When "FULL" appears:

The number of programmed tracks is limited to 24. No further tracks can be programmed.

To check what has been programmed:

Press -/I or +/I when "Cd-P" is displayed at the end of the program. The display will show the track number and programmed sequence.

Memory retention of programmed tracks:

The memory retains the program even if play is stopped or the unit is turned off.

Notes

- During program play, you can search forward or backward only within the current track.
- During program play, skipping is always in the programmed order, whether forward or backward.

Operation Checks

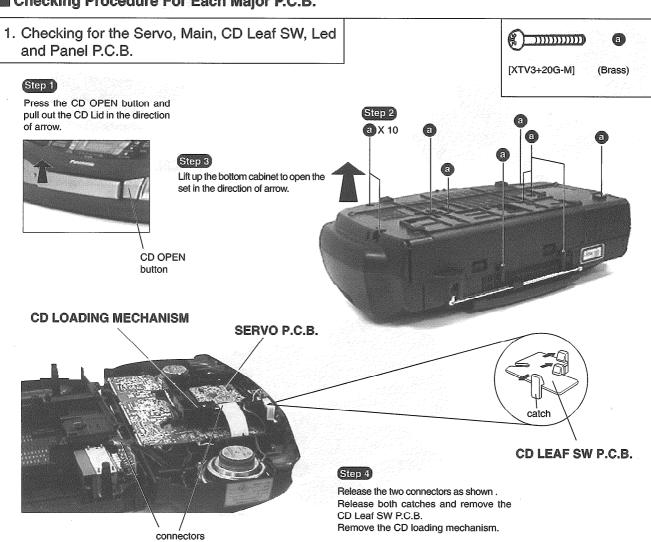
- " ATTENTION SERVICER " Some chassis component may have shape edges. Be careful when dissembling and servicing.
- 1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
- 2. For reassembly after operation checks or replacement, 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.

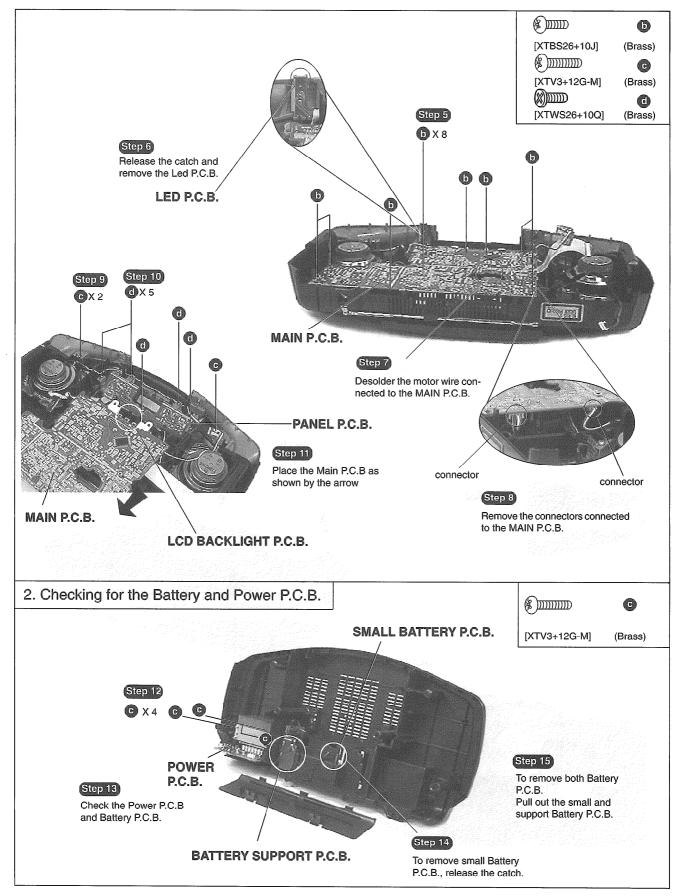
Contents page • Checking Procedure for each major P.C.B. 1. Checking for the Servo, Main, CD Leaf SW, LED and Panel P.C.B..... 7~8 2. Checking for the Battery and Power P.C.B. 3. Replacement for the Traverse Deck 9~10

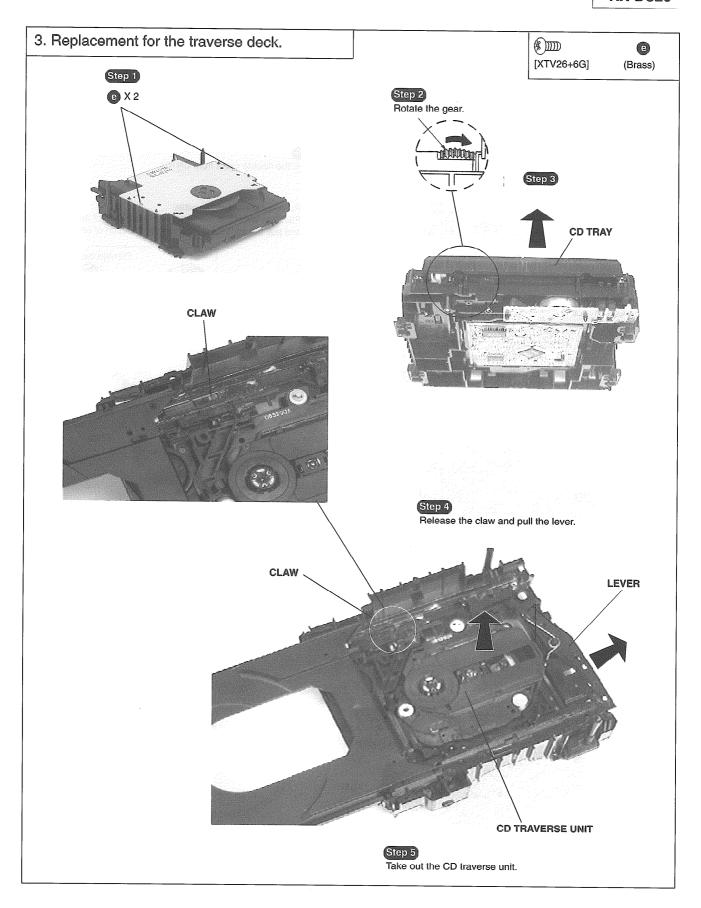
Warning : This product uses a laser diode. Refer to caution statement on page 3.

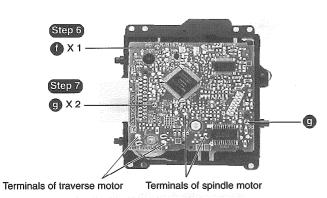
ACHTUNG: • Die lasereinheit nicht zerlegen.
• Die lasereinheit darf nur gegen eine vom hertsteller spezifizierte einheit ausgetauscht werden.

Checking Procedure For Each Major P.C.B.









Step 8

Desolder 2 terminals of spindle motor.

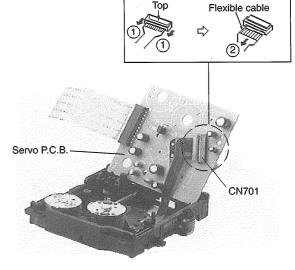
Step 9

Desolder 2 terminals of traverse motor.

Step 10

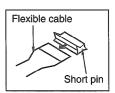
Remove the flexible cable from CN701.

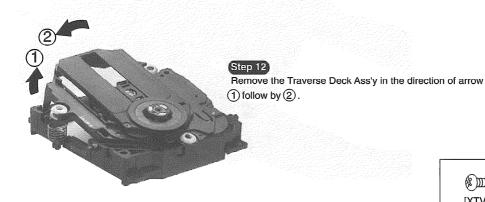
Removal of the flexible cable.
 Push the top of the connector in the direction of arrow 1 and pull out the flexible cable in the direction of arrow 2.



Widen 2 bosses by using a flat tip screwdriver and remove 2 pins

Note: Insert a short pin into the flexible cable for traverse unit.





(XTV2+6G)

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 is necessary as Tuner IC is used.

MAM - RF ALIGNMENT

SIGNAL GENE SWEEP GEN		RADIO DIAL			REMARKS	
CONNECTIONS	FREQUENCY	SETTING VOLTMETER or OSCILLOSCOPE)		(Shown in Fig.1)		
Fashion a loop of several turns of wire and radiate signal into the loop ant. of receiver.	522 kHz	Tune to signal	Headphone Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	L6 (AM OSC Coil)	Adjust for maximum output.	
11	1,503 kHz	п	п	CT1 (AM ANT Trimmer)	Adjust for maximum output.	

Cassette Deck Section

ALIGNMENT INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Measuring Instruments

• Digital frequency counter

Test Tane

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

Measuring condition

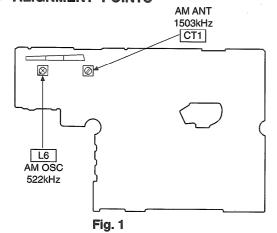
- · Make sure the heads are clean.
- · Make sure the capstan and pressure roller are clean.

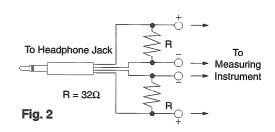
Note: No Azimuth Head Alignments is required due to Aztec Head is used in the cassette mechanism.

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.	_	3000 ± 90 Hz	Playback mode

ALIGNMENT POINTS





■ Terminal Guide of IC's , Transistors and Doides

M62429P	BU4066BC 8 14 7	LC72131D 12 22	TA2008AN 13 24 WWW 12 1	28 28 28 28 28 28 28 28 28 28 28 28 28 2	2SA1037AKSTX DTC114YKA146 C B
LA4663	12 / 1/2 / 1	AN8837SBE1	M38224M6M059 MN662746RPK1	BMR0301G RVTDTA114EST 2SC1740SRTA	\$81250\$GY-Z
2SB1566E	2SJ40CTA	2SA952LTA 2SC2001KTA	KV1360NTM SVC346T-AA	SLR332DCTB7 Anode Cathode Ca	SPR325MVWT31 Anode Cathode A Anode A Ca
1N5402BM21 Ca Cathode A A Anode	RVD1SS133TA Ca Cathode A Anode	Ca Cathod	MTZJ10BTA MTZJ15BTA MTZJ5R1BTA MTZJ5R6CTA MTZJ7R5CTA		

■ Terminal Function Of IC's

• IC703 (AN8780NSBE2) Focus coil / tracking coil / traverse motor / spindle motor drive

Pin No.	Mark	1/0	Function
1	RESET OUT	0	Reset output
2	NC	-	-
3	IN2	1	Motor driver 2 input
4	PC2	1	Power out 2 input
5	NC	-	-
6	IN1	ı	Motor driver 1 input
7	PVCC1	ı	Power supply for Driver 1
8	PGND1	-	Ground for Driver 1
9	NC	-	-
10	D1-	0	Motor driver 1(-) output
11	D1+	0	Motor driver 1(+) output
12	D2-	0	Motor driver 2(-) output
13	D2+	0	Motor driver 2(+) output
14	D3-	0	Motor driver 3(-) output
15	D3+	0	Motor driver 3(+) output

Pin No.	Mark	1/0	Function
16	D4-	0	Motor driver 4(-) output
17	D4+	0	Motor driver 4(+) output
18	NC	-	
19	PGND2	-	Ground for Driver 2
20	PVCC2	1	Power supply for Driver 2
21	VCC	ı	Power supply
22	VREF	ı	Reference voltage
23	IN4	ı	Motor driver 4 input
24	IN3	ı	Motor driver 3 input
25	RESET IN	ı	Reset input
26	NC	-	
-	FIN	-	Ground

• IC701 (AN8837SBE1) Servo Amplifier

			, , , , , , , , , , , , , , , , , , , ,
Pin No.	Mark	1/0	Function
1	PDE	1	Tracking signal input 1
2	PDF	1	Tracking signal input 2
3	vcc	ı	Power supply
4	PDA	ı	Focus signal input 1
5	PDB	ı	Focus signal input 2
6	LPD	ı	APC Amp. Input
7	LD	0	APC Amp. Output
8	RF	0	RF addition output
9	RFIN		RF signal input
10	CSBRT		Capacitor for OFTR connection terminal
11	CEA	-	HPF Amp.
12	BDO	0	BDO output
13	LDON	-	APC control
14	GND	-	Ground

Pin No.	Mark	1/0	Function
15	RFDET	0	NRFDET output
16	CROSS	0	CROSS output
17	OFTR	0	OFTR output
18	VDET	0	VDET output
19	ENV	0	3 TENV output
20	ENVOFF	-	ENV control
21	TEBPF	ı	VDET input
22	TEIN	I	TE Amp. input
23	TEOUT	0	TE Amp. output
24	FEOUT	0	FE Amp. output
25	FEIN	1	FE Amp. input
26	VREF	0	Reference voltage output
27	TBAL	-	TBAL control
28	FBAL	-	FBAL control

• IC702 (MN662746RPK1) Servo processor / digital signal processor / digital filter / D/A converter

19792 (mittoo274011F1X1) Servo processor/					
Pin No.	Mark	1/0	Function		
1	BCLK	0	Bit clock for SRDATA		
2	LRCK	0	L,R discriminatory signal "H": Lch audio data, "L": Rch audio data		
3	SRDATA	0	Serial data output		
4	DVDDI	ı	Power supply for digital circuit		
5	DVSSI	ı	Ground for digital circuit		
6	TX	0	Digital/ Audio/ Interface signal output		
7	MCLK	1	Microcomputer/ Command/ Clock signal		
8	MDATA	ı	Microcomputer/ Command/ Data signal input		
9	MLD	ı	Microcomputer/ Command/ Load signal input "L": Load		
10	SENSE	0	Sense signal output (OFT, FESL, NACEND, NWTEND, DATA)		
11	/FLOCK	0	Focus/ Servo drawback signal "L": drawback		
12	/TLOCK	0	Switching command, Tracking/ Servo drawback,		
	/VDET		Vibration detect signal "L": drawback "H": detection		
13	BLKCK	0	Subcode/Block/Clock signal (fBLKCK=75Hz)		
14	SQCK	ı	Clock signal for Subcode Q register		
15	SUBQ	0	Subcode Q data output		
16	DMUTE	ı	Muting input "H": mute		
17	STAT	0	Status signal (CRC, RESY, CLVS, TTSTOP, SQOK, FLAG6, SENSE,/FLOCK,/TLOCK)		
18	/RST	1	Reset input "L": reset		
19	SMCK	0	MSEL=at "H" clock signal 8.4672MHz output MSEL=at "L" clock signal 4.2336MHz output		
20	PMCK	0	Clock signal 88.2KHz output		
21	TRV	0	Test terminal (this terminal should be opened)		
22	TVD	0	Drive and forced drive for Traverse output		
23	PC	0	Spindle motor ON output "L": ON		
24	ECM	0	Spindle motor driving signal (forced mode)		
25	ECS	0	Spindle motor driving signal (servo error signal)		

a.	Signa	ai process	SOI /	digital filter / D/A converter
	Pin No.	. Mark	1/0	Function
	26	KICK	0	Test terminal (Hi-z fixed)
	27	TRD	0	Tracking drive and Kick pulse output
	28	FOD	0	Focus drive output (TVD, ECS, TRD, FOD, FBAL, TBAL, DSLF2)
	29	VREF	I	Reference voltage (TVD, ECS, TRD, FOD, FBAL, TBAL, DSLF2)
	30	FBAL	0	Focus balance adjustment output
	31	TBAL	0	Tracking balance adjustment output
	32	FE	ı	Focus error signal input (analog input)
	33	TE	I	Tracking error signal input (analog input)
1	34	RFENV	ı	RF envelope signal input (analog input)
L	35	VDET	1.	Test terminal (fixed to VDD or Vss)
	36	OFT		Off track signal input "H": off track
	37	TRCRS		Test terminal (fixed to VDD or Vss)
L	38	/RFDET	ı	RF detection signal input "L": detection
L	39	BDO	1	Dropout signal input "H": dropout
	49	LDON	0	Laser ON signal output "H": on
L	41	TES	0	Tracking error shunt signal output "H": shunt
L	42	PLAY	0	Play signal output "H": play
	43	WVEL	0	Double speed status signal output "H": double speed
	44	ARF	T	RF signal input
L	45	IREF		Reference current input
L	46	DRF	1	Bias for DSL
L	47	DSLF	1/0	Loop filter for DSL
	48	PLLF	1/0	Loop filter for PLL
	49	DSLF2	0	DSL unbalance current correction
	50	AVDD2	I	Power supply for analog circuit (DSL, PLL, DA output, AD)
	51	AVSS2	1	Ground for analog circuit (DSL,PLL,DA output,AD)
	52	EFM/CK384	0	Switching command signal • EFM signal output • 16.9344 MHz clock output
	53	PCK	0	PLL sampling clock output fPCK=4.3218MHz

Pin No.	Mark	1/0	Function
54	CK176	0	176.4KHz clock output
55	SUBC	0	Subcode serial output
56	SBCK	1	Clock for subcode serial output
57	VSS		Ground for oscillation circuit
58	X1	0	Crystal oscillation circuit input f=16.9344MHz
59	X2	0	Crystal oscillation circuit output f=16.9344MHz
60	VDD	1	Power supply for oscillation circuit
61	TRVSTP	0	Traverse STOP signal "H": STOP mode
62	/CLDCK	0	Subcode frame clock signal fCLDCK=7.35KHz
63	FCLK	0	Crystal frame clock signal fFCLK=7.35KHz
64	IPFLAG	0	Compensation flag signal "H":compensation
65	FLAG	0	Flag signal output
66	CLVS	0	Spindle servo phase syncronizing signal output "H": CLV "L": rough servo
67	CRC	0	Sub-code CRC checked output "H": OK "L": NG
68	RESY	0	Frame resyncronizing signal output "H": syncronized "L": out of syncronizing
69	FLAG6	0	Flag6 output "L": address reset
70	ARST	1	Test terminal usually "H"
71	/TEST	1	Test terminal normally "H"

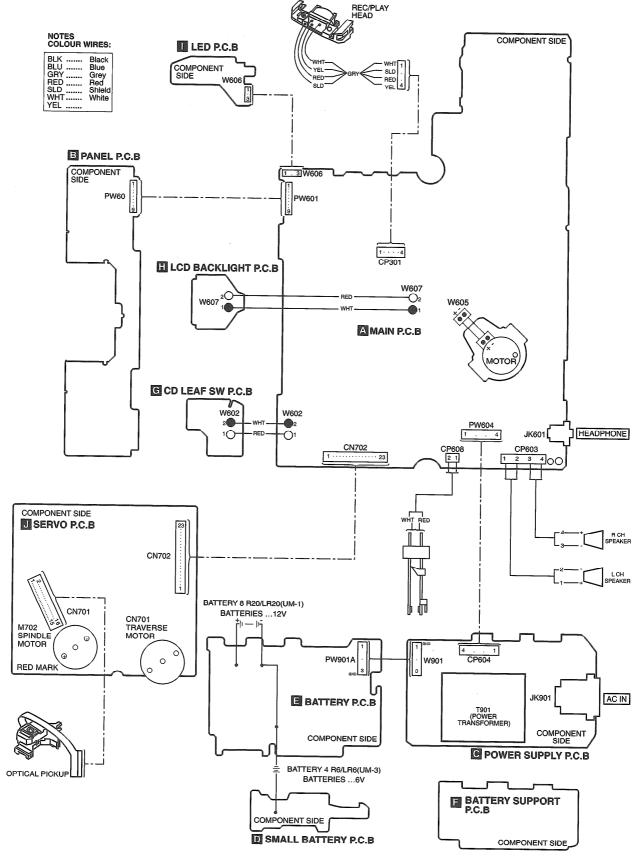
Pin No.	Mark	1/0	Function
72	AVDD1	1	Power supply for analog circuit
73	OUTL	0	Lch audio output
74	AVSS1	1	Ground for analog circuit
75	OUTR		Rch audio output
76	RSEL	1	RF signal polarity assignment input
			at "H" level RSEL="H", at "L" level RSEL="L"
77	FSEL	1	Noise filter on/off switching input
			"H": filter off "L": filter on
78	PSEL	1	Switching command input
			Test terminal (normally:"L")
			SRDATA input
79	MSEL	1	Switching command input
			 Switching frequency of SMCK output
			"H":SMCK=8.4672MHz "L":SMCK=4.2336MHz
			 LRCK input (SMCK=4.2336MHz fixed)
			"H": Lch data "L": Rch data
80	SSEL		Switching command input
			 Switching mode of SUBQ terminal
			"H": Q code buffer mode "L": CLDCK syncronized mode
			BCLK input (Q code buffer mode fixed)

• IC601 (M38224M6M059) System microprocessor

	•		
Pin No.	Mark	1/0	Function
1	VLCD2	Ī	LCD bias reference voltage input V2
2	VLCD1	1	LCD bias reference voltage input V1
3	KEY1	1	KEY input 1
4	TUNER/BAND	1	TUNER/BAND Key input
5	REG2	1	Area setting input 2
6	REG1	ı	Area setting input 1
7	R.CTL	0	Remote control power control signal output
8	P.DET	1	SW VCC voltage detection input
9	T.MUTE	0	TUNER FUNCTION & MUTE output
10	PLL DO	1	PLL IC DATA input
11	PLL DATA	0	PLL IC DATA output
12	PLL CLK	0	PLL IC CLK output
13	PLL CE	0	PLL IC CE output
14	REC H	0	REC detect signal output
15	B.P1	0	AM Rec. beat proof output 1
16	DECK MUTE	0	DECK MUTE output
17	D PLAY/PAUS	ı	CD PLAY/PAUSE key input
18	REM IN		Remote control signal input
19	AC DET	1	AC Power detection input
20	SQCK	0	CD subcode clock output
21	P.CNT	0	Power control output
22	SUBQ	1	CD subcode data input
23	MTRL	1	Deck motor detection input
24	BLK CK	1	CD subcode block clock input
25	MEGA	-	Not used
26	Vcc DET	ı	Vcc detection input (main power detection)
27	RESET	ı	System reset signal input
28	X OSC IN	ı	Crystal oscillator input (32.768kHz)
29	X OSC OUT	0	Crystal oscillator output (32.768kHz)
30	OSC IN	ı	Clock input (4.19kHz)

Pin No.	Mark	ΙO	Function
31	OSC OUT	ı	Clock output (4.19kHz)
32	VSS	-	GND
33	MBP1	0	Beatproof control signal output 1
34	MBP2	0	Beatproof control signal output 2
35	MUTE A	0	Audio Mute output A
36	CDL	0	CD power control output
37	CLOSE SW	1	CD close detection switch input
38	STAT	1	CD status signal input
39	CD RESET	1	CD reset signal output
40	REST SW	1	CD limit switch input
41	MCLK	0	CD clock control signal output
42	MDATA	0	CD data control signal output
43	MLD	0	CD loading control signal output
44	VOL DATA	0	PMW data signal output for electric volume circuit (IC604)
45	VOL CLK	0	PMW clock signal output for electric volume circuit (IC604)
46	TONE1	0	Tone control output 1
47	TONE2	0	Tone control output 2
48	S.V	0	Sound Virtualizer control output
49 51	NC	-	Not used
52	SEG0		
J <u>z</u>	JEGO	0	LCD segment signal output
72	SEG20		Lob oogment signal output
73	Vcc		Power supply (+5V)
74	VREF	i	A/D converter reference voltage
75	AVSS	<u> </u>	GND GND
76	COM3	-	
. 10	COIVIS	0	LCD common signal output
79	СОМО	"	200 common signal output
80	VLCD3		LCD bias reference voltage input V3

Wiring Connection Diagram



Schematic Diagram

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

Note:

• SW806 VOLUME (decrease) switch • S601 TAPE-DECK motor switch • S701 CD Rest switch • SW807 VOLUME (increase) switch R/P switch • SW808 MEMORY switch • SW301 FM MODE/ BP switch • SW809 CD LEAF switch SW602 POWER BLASTER switch TAPE/OFF switch • SW810 SW801 TUNE/SKIP/SEARCH (decrease) BAND SELECT switch • SW811 • SW802 PLAY/PAUSE switch • SW803 TUNE/SKIP/SEARCH (increase) • SW812 • SW804 CLEAR/TUNE MODE switch • SW901 AC INLET switch (JK901) SLEEP switch • SW805

· Battery current :

Vol. min. 400 mA (FM) Vol. max. 950 mA (FM)
390 mA (AM) 1200 mA (AM)
440 mA (TAPE) 1700 mA (TAPE)
600 mA (CD) 2300 mA (CD)

Measurement Instruction

AM : 74 dB/m, 30% Mod.
FM : 60 dB/m, 30% Mod.
TAPE : 315 Hz, 0 dB
CD : 1 kHz, 0 dB

· Signal line

: +B line : AM signal line : FM signal line : FM OSC signal line : FM OSC signal line : FM/AM signal line : Playback signal line : CD 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.

() AM < > FM No mark Playback

•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 I

IC, LSI and VLSI are sensitive to static electricity.

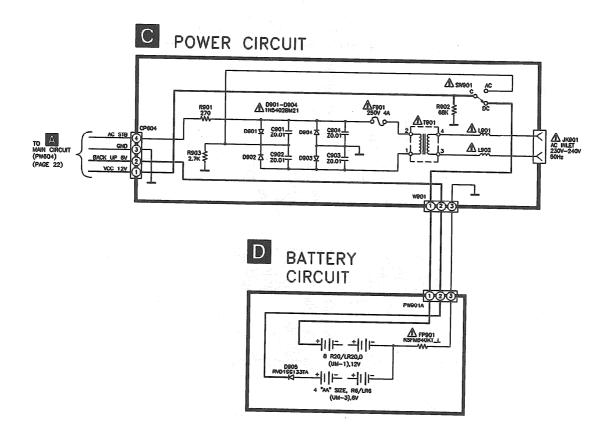
Secondary trouble can be prevented by taking care during repair.

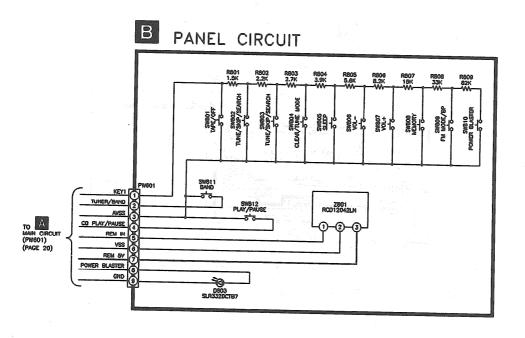
•Cover the parts boxes made of plastics with aluminium foil.

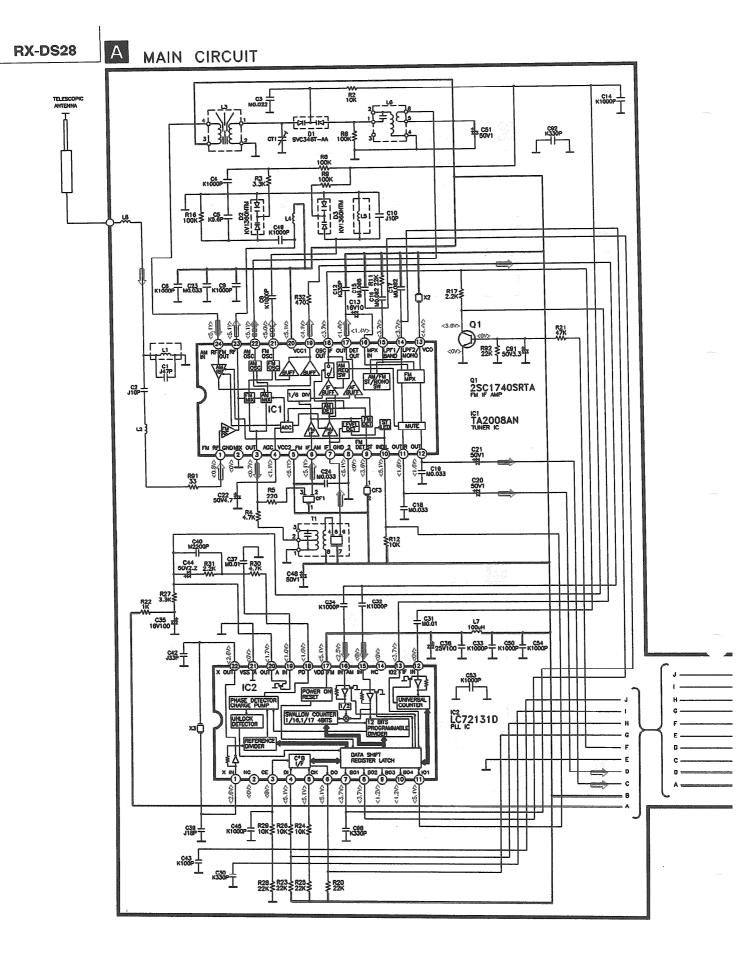
•Ground the soldering iron.

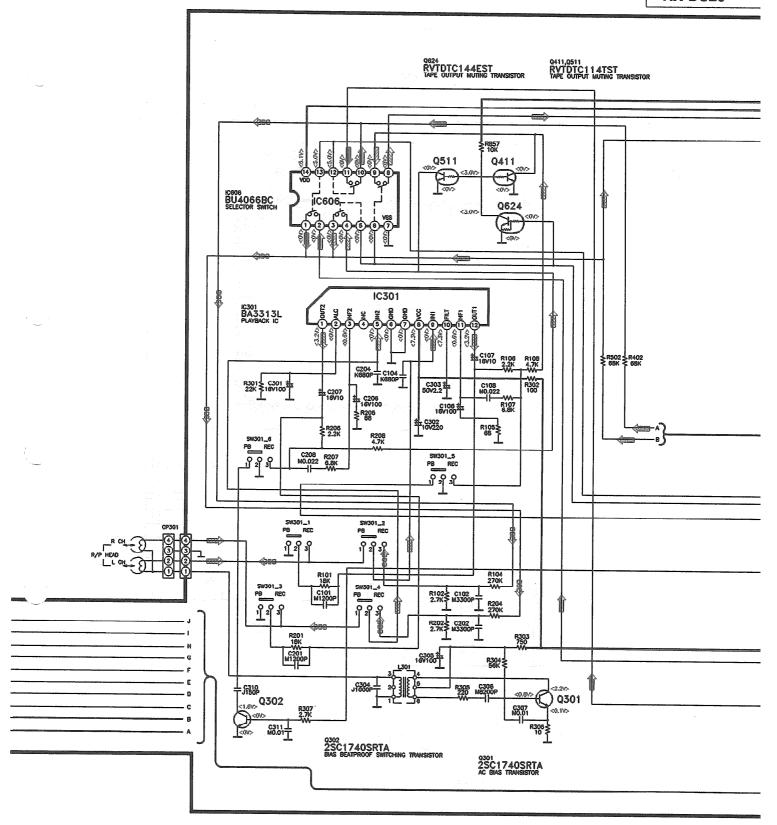
•Do not touch the pins of IC, LSI or VLSI with fingers directly.

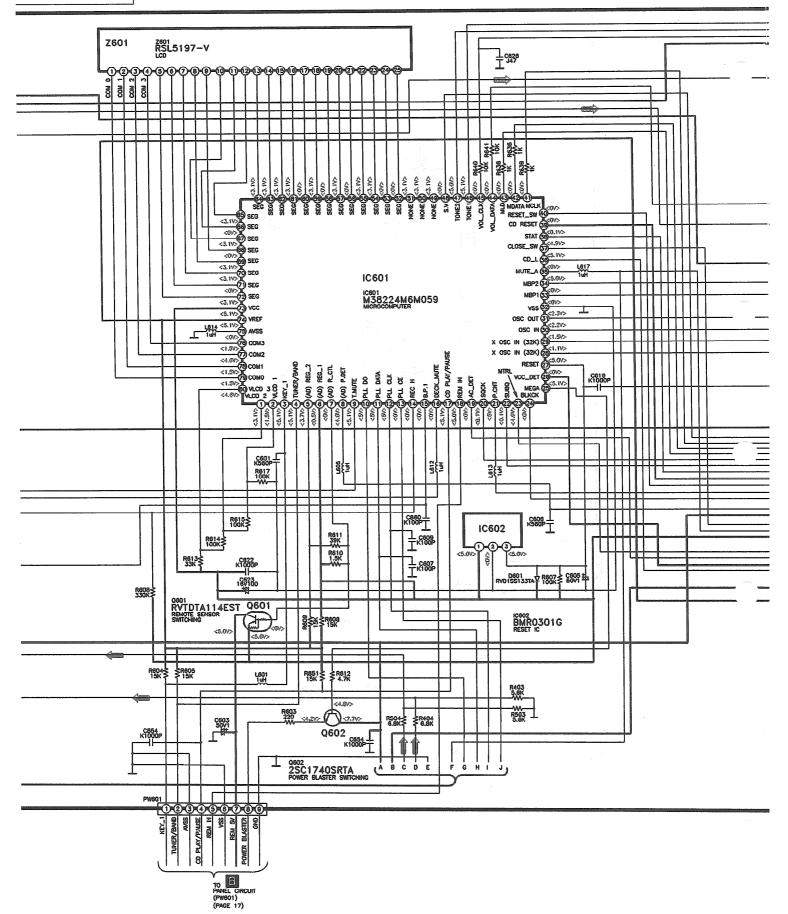
•Put a conductive mat on the work table.

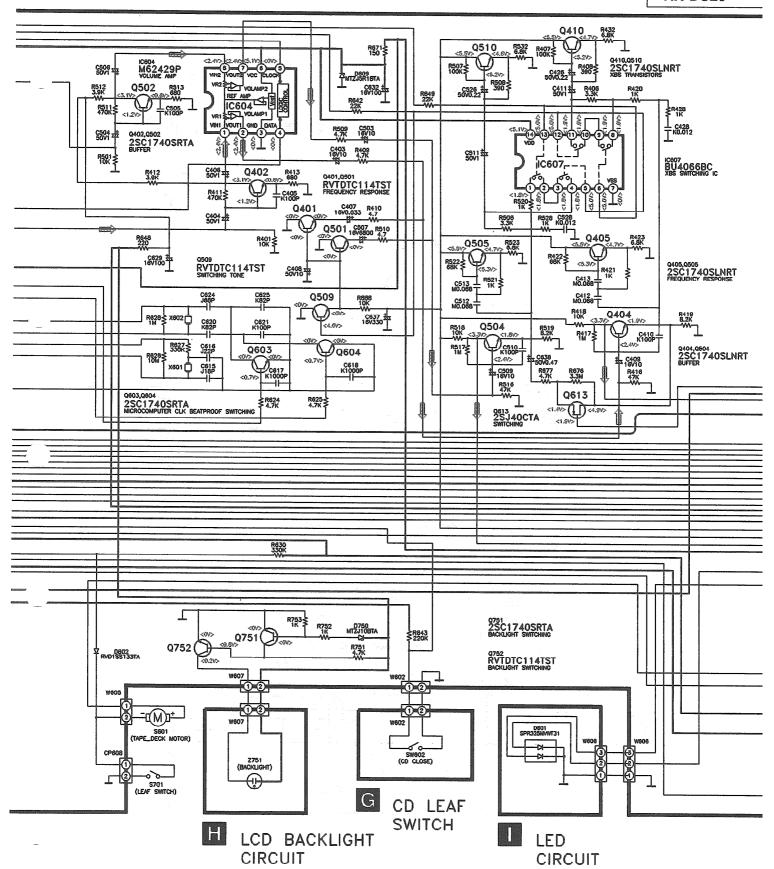


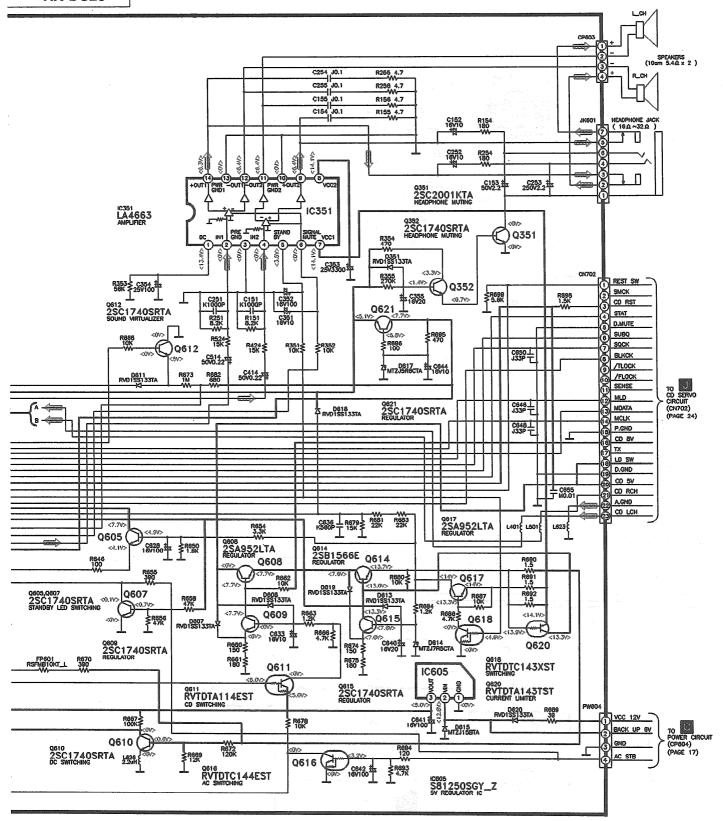


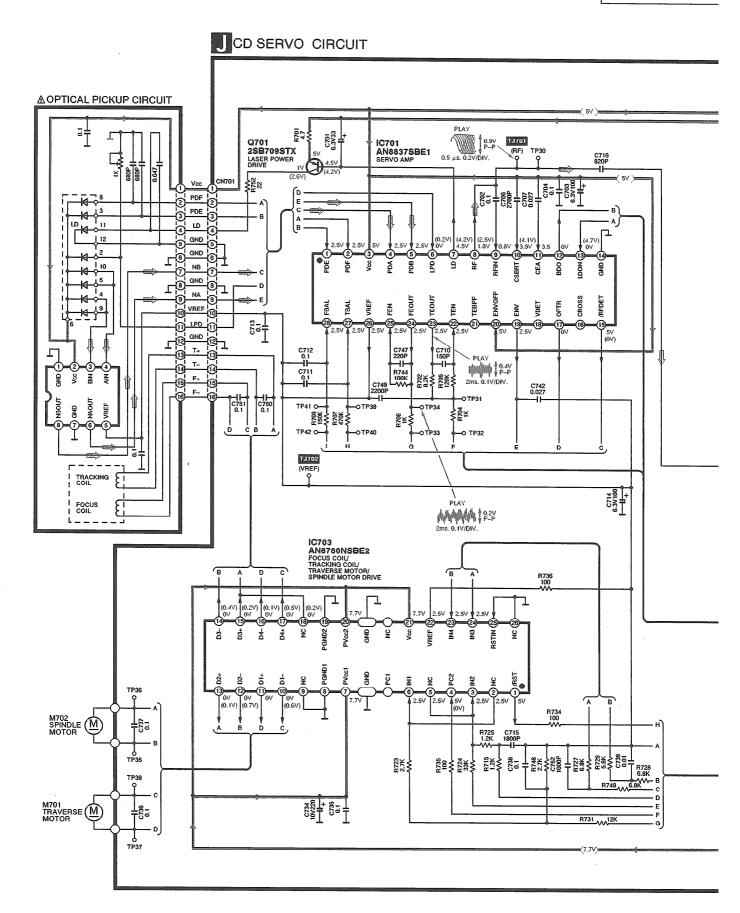


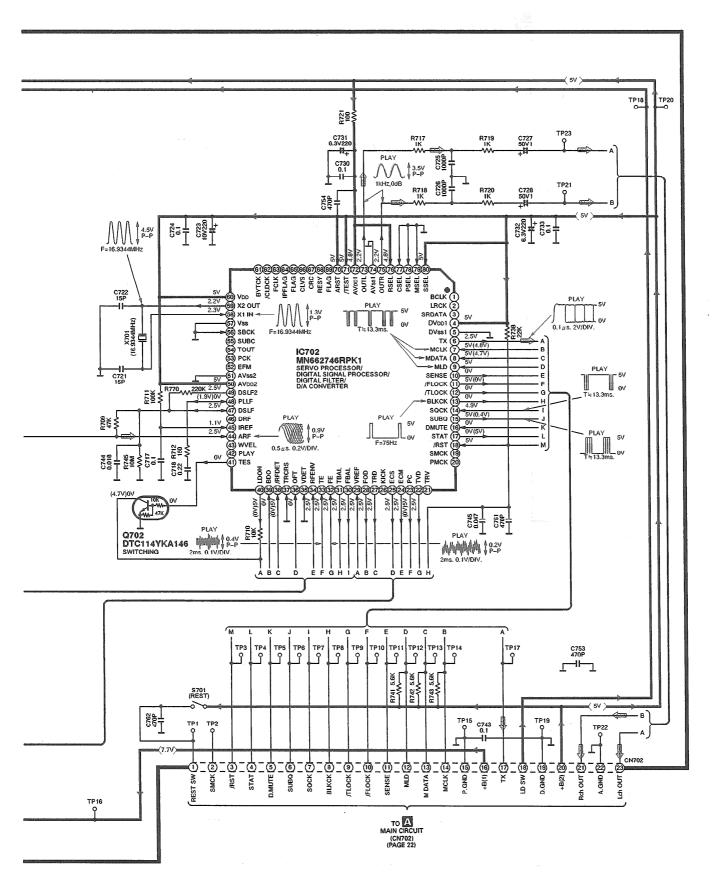






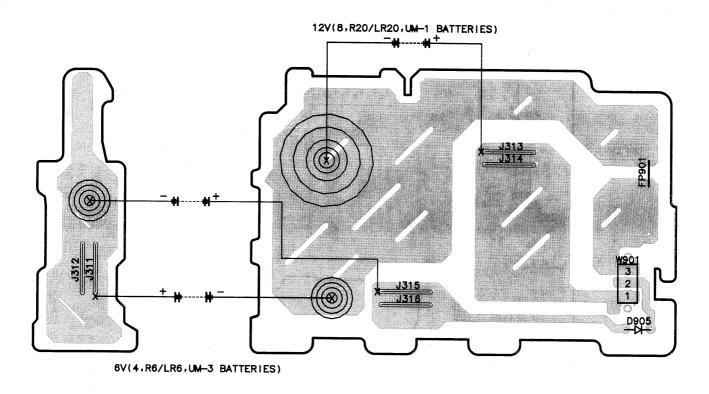






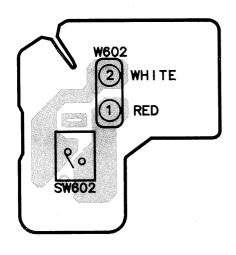
Printed Circuit Board

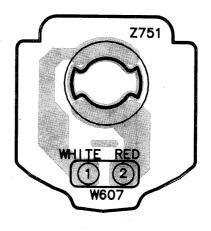
D SMALL BATTERY P.C.B (REPX0152) E BATTERY P.C.B (REPX0152)

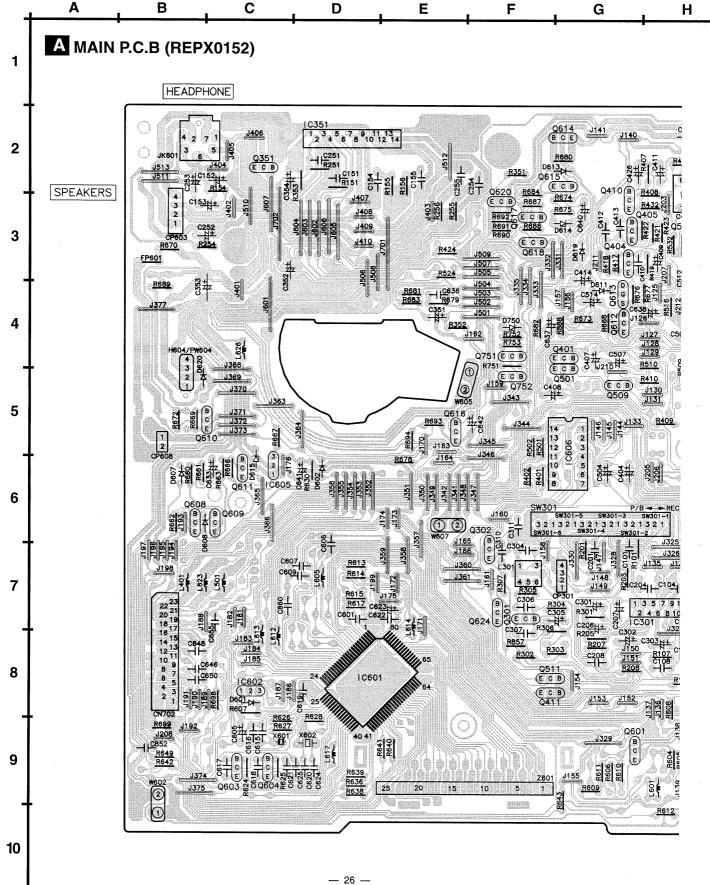


G CD LEAF SW P.C.B (REPX0152)

H LCD BACKLIGHT P.C.B (REPX0152)



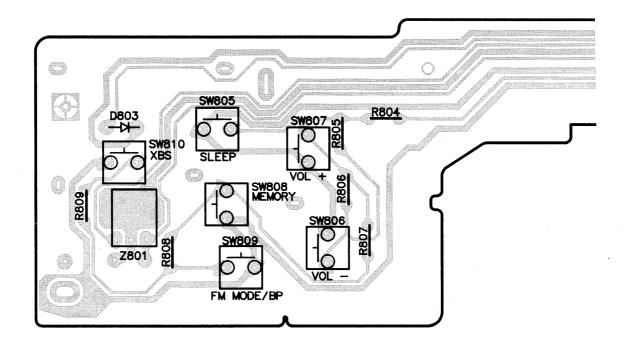




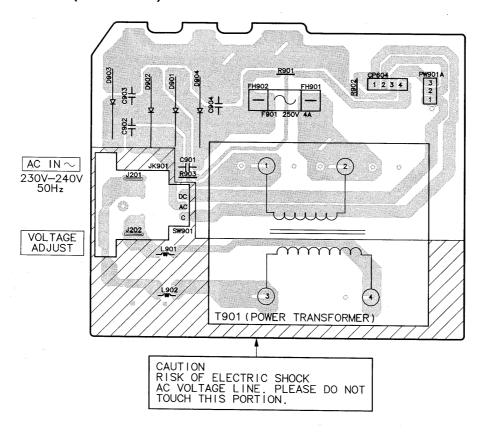
G Н K M TELESCOPIC ANTENNA

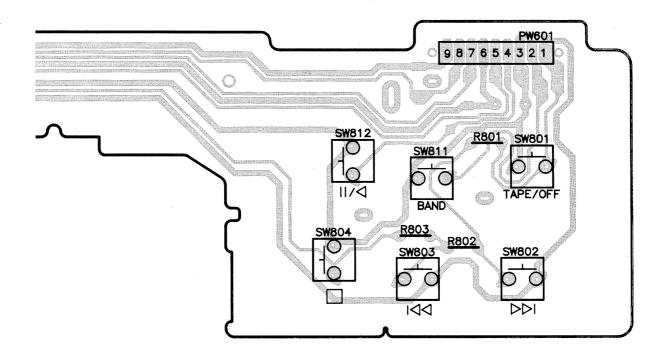
								<u> </u>	
9614 J141 J140 C684			1/4					O	01 01 01
R880 D613 D613 D615		1/2		3 1	R	R3 34 18 1- D2			
R887 R875 #7 E Q405 C428 C528 U	<u>₽</u>	D1		6 8 3 1	\$ +	ΛΩΛ) 5H-210 700-	<u>J103</u> <u>¥</u> <u>R91</u>	A STORY	2 1 2
CB	8	a <u>+</u>	** [4 5 6	110 110	-15 -15 -16	105 23 C2		+
	C5911-) D3 C10	A CA A	24	-	12	3 71
1 当 3	11 12	C36		R		<u>ું</u>	OF1 [3	7 6 8	4
1727 C50314 S00811 R24	201	8 H C40 R31 C37,1	632 634 92 R17	18 40/7 5 1	3 + C16 - -	13 1	CF3	<u></u>	48 HJ209
C604 T2 H+1118 R25 R	1 22 °	0 C47 R27 C35		7 1306 12.	8 8 17 1	1.00	J303		(0)
0509 1131 C405 H C406 H R613 1113 R21 1113 R21 11C405 L 11C505	C42 C39	60 //11	ECB)	- Allico	5 € 5		504		لــر
0402 R411 R512		150 150 1							
11 8	R404 R403 R504 R503								
SW301 P/B -> RCC U318		and							
[3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1 3 2 1] [\$W301-6									
3 47 85 95 435 434 212 3323	Semicon	ductors Lo	ocations Ta	able					
5 6 2 1 148 2 C204 C104 C102 C202 C201 C104 C102 C202 C201 C104 C102 C201 C201 C201 C201 C201 C201 C201	Ref. No	Loc. No	Ref. No	Loc. No	Ref. No	Loc. No	Ref. No	Loc. No	
C305 R301 # 2 4 6 8 1012 R102	CF1 CF3 CN702	M4 M4 B8	IC351 IC601 IC602	D2 D8 C8	Q302 Q351 Q352	F6 C2 I3	Q613 Q614 Q615	G4 F2 F2	
R303 R207 J150 C30314 R106 C628 H1	CP301 CP603 CP608	F7 B3 B5	IC602 IC604 IC605 IC606	H4 C5 F5	Q401 Q402 Q404	F4 H5 G3	Q616 Q617 Q618	E5 F3 F3	
Q511 RZOS CION BLOS C C P RIOS C	D1 D2 D3	J2 K3 L2 L3	IC607 JK601 L2 L3	H2 B2 M3	Q405 Q410 Q411 Q501	G3 G3 F8 F4	Q620 Q621 Q624 Q751	F3 I4 F7 F4	
Q411 3153 3152 PROSE R658 R646	D351 D601 D602	J2 C8 D5	L4 L301 L401	K2 L3 F7 B7	Q502 Q504 Q505	15 H4 H3	Q752 SW301 T1	F4 F6 M4	
Q601	D607 D608 D609 D611	B6 B6 H4 G4	L501 L6 L601 L605	C7 L3 G9 D7	Q509 Q510 Q511 Q601	G5 H3 F8 G9	X2 X3 X602 Z601	L4 J4 D9 E9	
	D613 D614 D615	F2 F3 C5	L612 L613 L614	C7 C7 E7	Q602 Q603 Q604	H9 C9 C9			
Z601	D617 D618 D619 D620	13 14 G3 B4	L617 L623 L626 L7	D9 B7 C4 K4	Q605 Q607 Q608 Q609	18 H8 B6 C6			
International Acceptance of Contraction of Contract	D750 IC1 IC2	F4 L4 J4	L8 Q1 Q301	M2 K5 F7	Q610 Q611 Q612	B5 C5 G4			

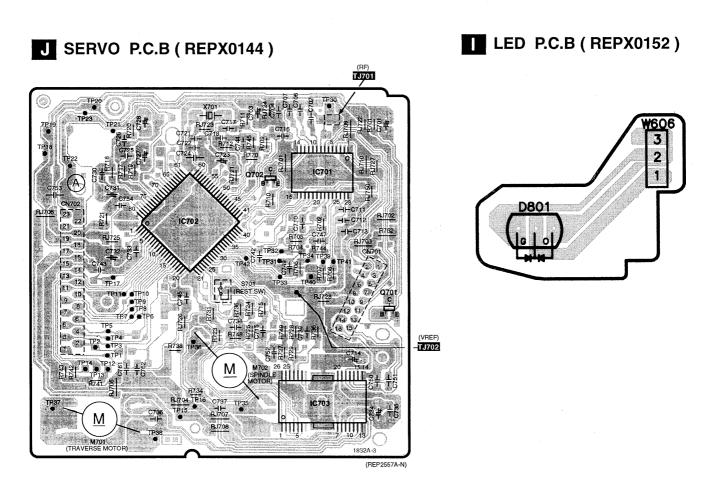
B PANEL P.C.B (REPX0152)



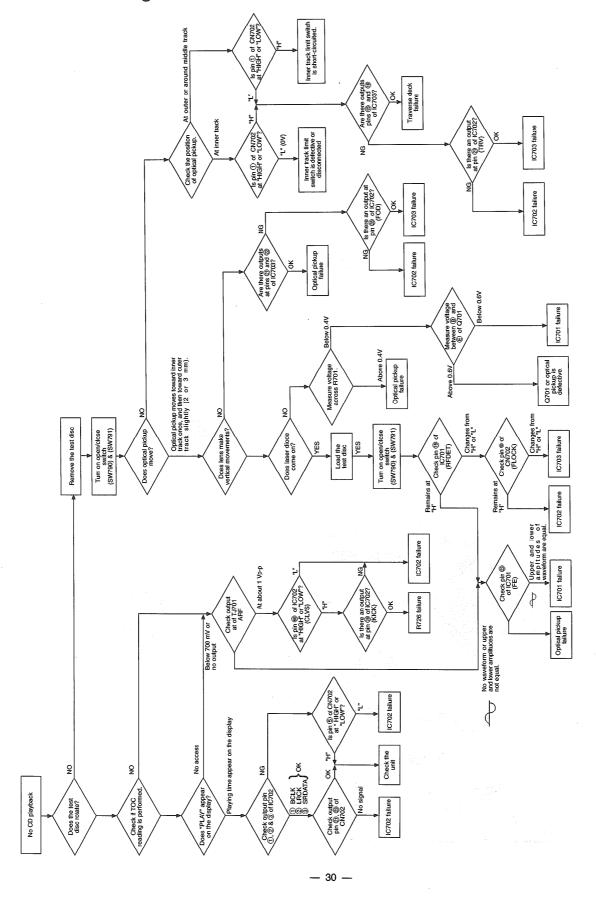
C POWER P.C.B (REPX0144)







■ Troubleshooting Guide



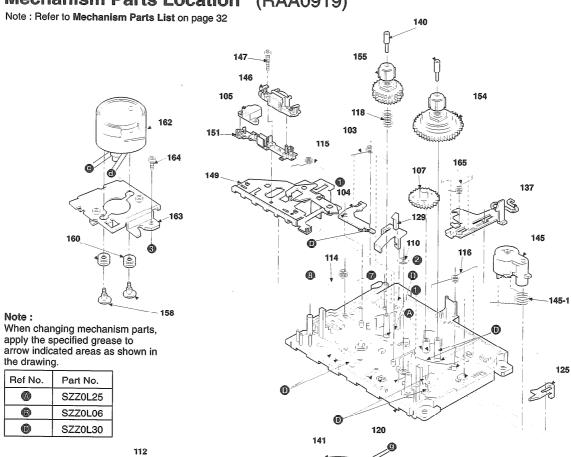
■ Mechanism Parts Location (RAA0919)

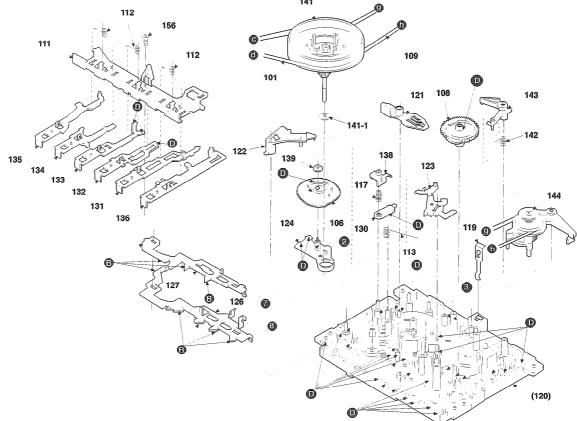
Note:

Ref No.

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■ Mechanism Parts List

Notes : [M] in Remarks column indicates parts supplied by MESA.

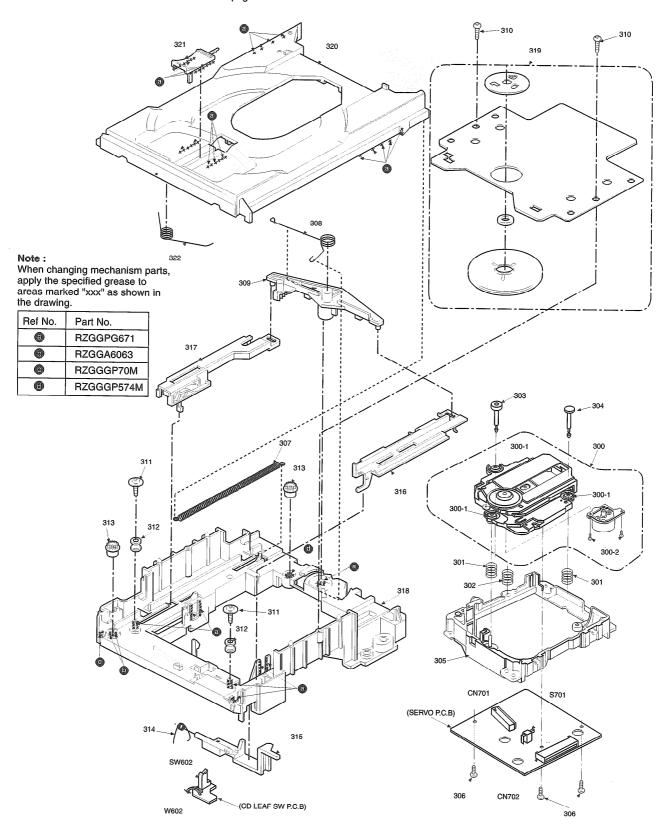
Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
		CASSETTE DECK		123	RML0073-1	AS PROTECT LEVER	[M]	145-1	RMB0049	PINCH ARM SPRING	[M]
				124	RML0074	IDLER LEVER	[M]	146	RBR4CY016-M	STEREO ASTEC HEAD	[M]
101	RDV0007	MAIN BELT	[M]	125	RML0076	EJECT SELECTION LEVER	[M]	147	XTN2+14F	R/P HEAD SCREW	[M]
103	RMB0109-1	BRAKE SPRING	[M]	126	RML0077	LOCK PLATE	[M]	149	RMA0696	HEAD BASE	[M]
104	RML0116	BRAKE	[M]	127	RML0078	FUNCTION PLATE	[M]	151	RMQ0384	HEAD BASE	[M]
105	RBR2CY009	ERASE HEAD	[M]	129	RML0081-1	RECORD SAFETY LEVER	[M]	154	RXR0004	TAKE UP REEL ASSY	[M]
106	RDG0057	IDLER GEAR	[M]	130	RML0082	PAUSE LEVER	[M]	155	RXR0005	SUPPLY REEL ASSY	[M]
107	RDG0059	FF RELAY GEAR	[M]	131	RMM0023	PLAY ROD	[M]	156	XTN2+6J	BACK PLATE SCREW	[M]
108	RDK0005	CAM GEAR	[M]	132	RMM0024	REW ROD	[M]	158	RHD26002	MOTOR SCREW	[M]
109	RDV0006-1	RF BELT	[M]	133	RMM0025	FF ROD	[M]	160	RMG0102	MOTOR RUB. CUSH.	[M]
110	RHW16009	CAPSTAN WASHER	[M]	134	RMM0026	STOP ROD	[M]	162	RFKPXDS101PK	DC MOTOR ASS'Y	[M]
111	RMA0109	BACK PLATE	[M]	135	RMM0027	PAUSE ROD	[M]	163	RMA0108	MOTOR BK (P:75)	[M]
112	RMB0043-1	ROD OPERATION SPRING	[M]	136	RMM0028	REC ROD	[M]	164	XTN26+8J	MOTOR BK SCREW	[M]
113	RMB0045	AS SPRING	[M]	137	RMM0029	EJECT SLIDE LEVER	[M]	165	RME0098-2	EJECT SLIDE LEVER SP	[M]
114	RMB0046-1	LOCK PLATE SPRING	[M]	138	RMR0211	PAUSE BUSH	[M]				
115	RMB0047	HEAD PANEL SPRING	[M]	139	RMR0227	IDLER GEAR BUSH	[M]				
116	RMB0048	IDLER LEVER SPRING	[M]	140	RMS0055	REEL SHAFT	[M]				
117	RMB0053	PAUSE LEVER SPRING	[M]	141	RXF0012	FLYWHEEL ASSY	[M]				
118	RMB0125	BACK TENSION SPRING	[M]	141-1	RHW21008	FLYWHEEL WASHER	[M]				
119	RMC0061	PACK SPRING(OR RUS60	[M]	142	RMB0044	TRIGGER SPRING	[M]				
120	RFKRCT090P-K	CHASSIS ASS'Y	[M]	143	RML0075	TRIGGER LEVER	[M]				
121	RML0071	SWING LEVER	[M]	144	RXP0014	RF CLUTCH ASSY	[M]				
122	RML0072	AS RELEASE LEVER	[M]	145	RXP0015	PINCH ROLLER ASSY	[M]				

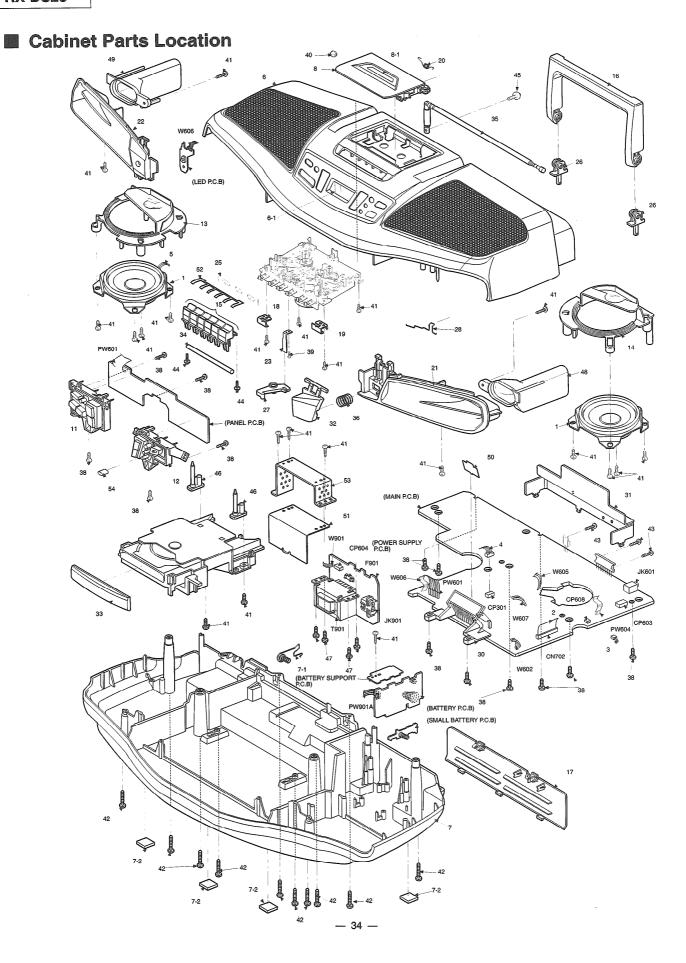
■ Loading Mechanism Parts List

Notes : [M] in Remarks column indicates parts 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	Remark
		TRAVERSE DECK		307	RMB0566	CD OPEN SPRING	[M]	318	RMK0388	CD CHASSIS	[M]
				308	RME0267	ASSIST SPRING	[M]	319	RFKNRXDS18PA	DISC HOLDER ASS'Y	[M]
300	RAE0152Z-M	TRAVERSE	[M]	309	RMM0207	CHANGE LEVER	[M]	320	RGQ0233-K	CD TRAY	[M]
300-1	SHGD113-1	FLOATING CUSHION	[M]	310	XTV26+6G	SCREW	[M]	321	RGQ0234-K	DISC HOLD PIECE	[M]
300-2	SNSD38	TRV MOTOR ASS'Y SCRE	[M]	311	RHD26016	SCREW	[M]	322	RME0269	DISC HOLD PIECE SPRING	[M]
301	RME0109	FLOATING SPRING B	[M]	312	RDP0103	ROLLER	[M]				
302	RME0142	FLOATING SPRING A	[M]	313	RDG0288	DAMPER GEAR	[M]				
303	RMS0350	FIXED PIN A	[M]	314	RME0268	CD EJ LEV SPR	[M]				
304	RMS0123-1	FIXED PIN B	[M]	315	RML0535	CD LOCK LEVER	[M]				
305	RMR0698-K	TRY CHASSIS	[M]	316	RMM0206	UP/DOWN LEVER B	[M]				
306	XTN2+6G	PCB SCREW	[M]	317	RMM0205	UP/DOWN LEVER A	[M]				

Loading Mechanism Parts Location Note: Refer to Mechanism Parts List on page 32.





■ Replacement Parts List

Notes: *

Important safety notice:

Components safety notice:

Components dentified 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 these components, be sure to use only manufacturer's specified parts shown in the parts list.

The parenthesized indications in the Remarks columns specify the areas or colour. (Refer to the cover page for area or colour.) Parts without these indications can be used for all areas.

| Mill Indicates in the Remarks columns indicates parts supplied by MESA.
| Warning: This product uses a laser diode. Refer to caution statements on page 3.
| ACHTUNG: • Die lasereinheit nicht zerlegen.

• Die lasereinheit nicht zerlegen.

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

		1	т		,						
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		38	XTBS26+10J	SCREW	[M]	Q352	2SC1740SRTA	TRANSISTOR	[M]
				39	XTN2+3F	SCREW	[M]	Q401	RVTDTC114TST	TRANSISTOR	[M]
1	EAST10P02B6	SPEAKER	[M]	40	RDG0183-L	DAMPER GEAR	[M]	Q402	2SC1740SRTA	TRANSISTOR	[M]
2	REE0842	CD FFC	[M]	41	XTV3+12G	SP. MOUNTING SCREW	[M]	Q404	2SC1740SLNRT	TRANSISTOR	[M]
3	REX0905Y	MECHA LEAF SW WIRE.U	[M]	42	XTV3+20G	CASING SCREW	[M]	Q405	2SC1740SLNRT	TRANSISTOR	[M]
4	REX0906	MECHA HEAD WIRE UNIT	[M]	43	XTV3+8F	SCREW	[M]	Q410	2SC1740SLNRT	TRANSISTOR	[M]
5	REXX0189	SP-MAIN WIRE UNIT	[M]	44	XTWS3+10Q	MECHA SHAFT SCREW	[M]	Q411	RVTDTC114TST	TRANSISTOR	[M]
6	RFKKXDS28EBK	UPPER CAB ASS'Y	[M]	45	XYN3+F12FY	R.ANT SCREW	[M]	Q501	RVTDTC114TST	TRANSISTOR	[M]
6-1	RGPX0023-Q	LCD PANEL	[M]	46	RMR1155-K	CD FIXTURE	[M]	Q502	2SC1740SRTA	TRANSISTOR	[M]
7	RFKJXDS28EBK	BOTTOM CAB ASS'Y	[M]EB	47	XTV3+10F	SCREW	[M]	Q504	2SC1740SLNRT	TRANSISTOR	[M]
7	RFKJXDS28EGK	BOTTOM CAB ASS'Y	[M]EG	48	RKTX0001-K	JOINT PORT (R)	[M]	Q505	2SC1740SLNRT	TRANSISTOR	[M]
7	RFKJXDS28E-K	BOTTOM CAB ASS'Y	[M]E	49	RKTX0002-K	JOINT PORT (L)	[M]	Q509	RVTDTC114TST	TRANSISTOR	[M]
7-1	RJC91008	+- BATT. TERMINAL	[M]	50	RMVX0040	LAMP COVER	[M]	Q510	2SC1740SLNRT	TRANSISTOR	[M]
7-2	RKA0059-K	LEG RUBBER	[M]	51	RSCX0041	TRANSFORMER SHIELD	[M]	Q511	RVTDTC114TST	TRANSISTOR	[M]
8	RFKLXDS27EBK	CASS LID ASS'Y	[M]	52	RMQ0649	MECHA BUTTON SUPPORT	[M]	Q601	RVTDTA114EST	TRANSISTOR	[M]
8-1	RKWX0092-Q	CASS. PANEL	[M]	53	RMAX0037	TRANSFORMER BRACKET	[M]	Q602	2SC1740SRTA	TRANSISTOR	[M]
11	RYQX0014	OPE BTN UNIT (L)	[M]	54	RGLX0012-Q	MEGA LED WINDOW	[M]	Q603	2SC1740SRTA	TRANSISTOR	[M]
12	RYQX0015	OPE BTN UNIT (R)	[M]					Q604	2SC1740SRTA	TRANSISTOR	[M]
13	RGK1006-R	DIFFUSER (L)	[M]			INTEGRATED CIRCUITS		Q605	2SC1740SRTA	TRANSISTOR	[M]
14	RGK1007-R	DIFFUSER (R)	[M]					Q607	2SC1740SRTA	TRANSISTOR	[M]
15	RGZX0025-K	MECHA BUTTON	[M]	IC1	TA2008AN	IC, TUNER	[M]	Q608	2SA952LTA	TRANSISTOR	[M]
16	RKH0042-K	HANDLE	[M]	IC2	LC72131D	IC, PLL	[M]	Q609	2SC1740SRTA	TRANSISTOR	[M]
17	RKK0073-1K	BATT. COVER	[M]	IC301	BA3313L	IC, PRE AMP	[M]	Q610	2SC1740SRTA	TRANSISTOR	[M]
18	RMAX0028	MECHA BRACKET (L)	[M]	IC351	LA4663	IC, POWER	[M]	Q611	RVTDTA114EST	TRANSISTOR	[M]
19	RMAX0029	MECHA BRACKET (R)	[M]		M38224M6M059	IC, U. COM	[M]	Q612	2SC1740SRTA	TRANSISTOR	[M]
20	RMB0490	CASS. OPEN SPRING	[M]		BMR0301G	IC, RESET	[M]	Q613	2SJ40CTA	TRANSISTOR	[M]
21	RKTX0003-S	PORT (R)	[M]		M62429P	IC, E.VOL	[M]	Q614	2SB1566E	TRANSISTOR	
22	RKTX0004-S	PORT (L)	[M]		S81250SGY-Z	IC, 5V REG.	[M]	Q615	2SC1740SRTA	TRANSISTOR	[M]
23	RMC0355	R/P PLATE	[M]		BU4066BC	IC. ANALOG SW	[M]	Q616	RVTDTC144EST	TRANSISTOR	[M]
25	RMXX0004	SPACER	[M]		BU4066BC	IC, ANALOG SW		Q617	2SA952LTA		[M]
26	RKQ0224-K	HANDLE FIXTURE	[M]		AN8837SBE1	IC, HEAD AMP	[M]	Q618	RVTDTC143XST		[M]
27	RML0534	R/P LEVER	[M]		MN662746RPK1		[M]	Q620			[M]
28	RME0270	R. ANT TERMINAL	[M]		AN8780NSBE2		[M]		RVTDTA143TST	TRANSISTOR	[M]
30	RMN0475	LCD HOLDER		10703	MINO/OUNSDE2	IC, MOTOR DRIVER	[M]	Q621	2SC1740SRTA		[M]
31	RMYX0038	HEATSINK	[M]			TDANGICTORO		Q624	RVTDTC144EST		[M]
32	RGU1630-S		[M]			TRANSISTORS		Q701	2SA1037AKSTX		[M]
33	RGK1008-S	CD EJ BUTTON CD TRAY LID	[M]	0,	00017400074	TRANSISTOR		Q702	DTC114YKA146		[M]
			[M]		2SC1740SRTA		[M]	Q751	2SC1740SRTA		[M]
34	SUX102	MECHA ROD	[M]		2SC1740SRTA	TRANSISTOR	[M]	Q752	2SC2001KTA	TRANSISTOR	[M]
35	XEARR210C-Y	R.ANTENNA	[M]		2SC1740SRTA		[M]				
36	RMB0567	CD EJ BTN SPR	[M]	Q351	2SC2001KTA	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
		DIODES		SW811	EVQ21405R	SW, BAND	[M]			OSCILLATORS	
				SW812	EVQ21405R	SW, PLAY/PAUSE	[M]				
D1	SVC346T-AA	DIODE	[M]	SW901	RJJ1SE01-1H	SW, AC INLET (JK901)	[M] 🗘	X2	RSXZ456KM01	19KHZ OSC	[M]
D2	KV1360NTM	DIODE	[M]					Х3	RSXC7M20S04T	XTAL 7.2MHZ	[M]
D3	KV1360NTM	DIODE	[M]			CONNECTORS		X601	RSXD32K7S02	32.768HKZ X'TAL	[M]
D351	RVD1SS133TA	DIODE	[M]					X602	RSXZ4M19D01T	CERAMIC OSC.	[M]
D601	RVD1SS133TA	DIODE	[M]	CN701	RJS2A6016	16P FFC CONNECTOR	[M]	X701	RSXZ16M9M01T	CERAMIC OSC	[M]
D602	RVD1SS133TA	DIODE	[M]	CN702	RJS1A6723-1Q	23P FFC CONNCETOR	[M]				
D607	RVD1SS133TA	DIODE	[M]	CN702	RJS1A6823-J	23P FPC CONNECTOR	[M]			FUSES & FUSE HOLDERS	
D608	RVD1SS133TA	DIODE	[M]	CP301	RJP4G18ZA	SOCKET	[M]				
D609	MTZJ5R1BTA	DIODE	[M]	CP603	RJP4G9YA	LEAF SW 9P POST	[M]	F901	XBA2C40TB0	FUSE	[M] <u></u>
D611	RVD1SS133TA	DIODE	[M]	CP604	RJP4G4YA	LEAF SW 4P POST	[M]	FH901	RJR0169T	FUSE HOLDER	[M]
D613	RVD1SS133TA	DIODE	[M]	CP608	RJT029W002-1	SP CONNECTOR	[M]	FH902	RJR0169T	FUSE HOLDER	[M]
D614	MTZJ7R5CTA	DIODE	[M]					FP601	RSFMB10KT-L	FUSE PROTECTOR	[M]
D615	MTZJ15BTA	DIODE	[M]			COILS & TRANSFORMERS		FP901	RSFMB40KT-L	FUSE PROTECTOR	[M] <u></u>
D617	MTZJ5R6CTA	DIODE	[M]								
D618	RVD1SS133TA	DIODE	[M]	L2	RLQY30S1W	COIL	[M]			JACKS	
D619	RVD1SS133TA	DIODE	[M]	L3	RLV2C038-0	F. ANT	[M]				
D620	RVD1SS133TA	DIODE	[M]	L4	RLD4Y45W	COIL	[M]	JK601	RJJ37TK01-1C	JK, HEADPHONE	[M]
D750	MTZJ10BTA	DIODE	[M]	L6	RL02B130-T	AM OSC COIL	[M]	JK901	RJJ1SE01-1H	JK, AC INLET	[M] <u>(</u>
D801	SPR325MVWT31	DIODE	[M]	L7	RLQZP101KT-Y	AXIAL COIL	[M]				
D803	SLR332DCTB7	DIODE	[M]	L8	RLQY30S1W	COIL	[M]			WIRE HOLDERS	
D901	1N5402BM21	DIODE	[M] <u></u>	L301	RL09B17-T	RECORDING BIAS OCS C	[M]				
D902	1N5402BM21	DIODE	[M] <u>A</u>	L401	RLL500050T-Y	RF CHOKE COIL	[M]	H601A	RMR0318	9P CABLE HOLDER	[M]
D903	1N5402BM21	DIODE	[M] <u></u>	L501	RLL500050T-Y	RF CHOKE COIL	[M]	H601B	RMR0318	9P CABLE HOLDER	[M]
D904	1N5402BM21	DIODE	[M] <u></u>	L601	RLQZP1R0KT-Y	COIL	[M]	H604	RJS1A5504	CABLE HOLDER	[M]
D905	RVD1SS133TA	DIODE	[M]	L605	RLQZP1R0KT-Y	COIL	[M]				
				L612	RLQZP1R0KT-Y	COIL	[M]			WIRES	
		TRIMMER		L613	RLQZP1R0KT-Y	COIL	[M]				
				L614	RLQZP1R0KT-Y	COIL	[M]	W602	RWJ4202190KK	CD LEAF SW WIRE	[M]
CT1	ECRLA010A53R	TRIMMER CAPACITOR	[M]	L617	RLQZP1R0KT-Y	COIL	[M]	W605	RWJ0102050KR	MAIN-MECHA MOTOR	[M]
				L623	RLL500050T-Y	RF CHOKE COIL	[M]	W606	RWJ8203120KK	MAIN-LED PCB	[M]
		SWITCHES		L626	RLQZP2R2KT-Y	COIL	[M]	W607	RWJ0302120KK	MAIN-BACKLIGHT PCB	[M]
				L901	RLL500050T-Y	RF CHOKE COIL	[M] <u></u>	W901	RWJ0103170KK	POWER-BATT WIRE	[M]
S601	RSH1A006-U	SW, MOTOR	[M]	L902	RLL500050T-Y	RF CHOKE COIL	[M] <u></u>	PW601	RWJ1109120XX	MAIN-PANEL FFC	[M]
S701	RSH1A043-U	SW, REST SWITCH	[M]	T1	RLI2B014-T	AM IFT	[M]	PW604	REX0908	POWER-MAIN WIRE UNIT	[M]
SW301	RSP2F002-A	SW, R/P	[M]	T901	RTP1L1B011-X	TRANSFORMER	[M] 🗘	PW901A	RWJ0103170KK	POWER-BATT WIRE	[M]
SW602	RSH1A005	SW, LEAF	[M]								
SW801	EVQ21405R	SW, TAPE/OFF	[M]			COMPONENT COMBINATION					
SW802	EVQ21405R	SW, TUNE/SKIP/SEARCH	[M]								
SW803	EVQ21405R	SW, TUNE/SKIP/SEARCH	[M]	Z601	RSL5197-V	LCD	[M]			110	
SW804	EVQ21405R	SW, CLEAR/TUNE MODE	[M]	Z751	XAMR138	LAMP (BACK LIGHT)	[M]				
SW805	EVQ21405R	SW, SLEEP	[M]	Z801	RCD12042LN	REMOTE SENSOR	[M]				
SW806	EVQ21405R	SW, VOL-	[M]								
SW807	EVQ21405R	SW, VOL+	[M]			CERAMIC FILTERS					
SW808	EVQ21405R	SW, MEMORY	[M]								
SW809	EVQ21405R	SW, FM MODE/BP	[M]	CF1	RLFFETNL02AL	FM CF	[M]				
	EVQ21405R	SW, POWER BLASTER	[M]	CF3	RLFDFT20AL	FM DISCRIMINATOR	[M]	<u> </u>			

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 in the Remarks columns specify the areas. (Refer to the cover page for area.)

Parts without these indication can be used for all areas.

[M] in Remarks column indicates 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 & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks
	RESISTORS		R202	ERDS2TJ272T	2.7K 1/4W [M]	R422	ERDS2TJ683T	68K 1/4W [M]	R615	ERDS2TJ104T	100K 1/4W [M]
			R204	ERDS2TJ274T	270K 1/4W [M]	R423	ERDS2TJ682T	6.8K 1/4W [M]	R617	ERDS2TJ104T	100K 1/4W [M]
R2	ERDS2TJ103T	10K 1/4W [M]	R205	ERDS2TJ680T	68 1/4W [M]	R424	ERDS2TJ153T	15K 1/4W [M]	R624	ERDS2TJ472T	4.7K 1/4W [M]
R3	ERDS2TJ332T	3.3K 1/4W [M]	R206	ERDS2TJ222T	2.2K 1/4W [M]	R428	ERDS2TJ102T	1K 1/4W [M]	R625	ERDS2TJ472T	4.7K 1/4W [M]
R4	ERDS2TJ472T	4.7K 1/4W [M]	R207	ERDS2TJ682T	6.8K 1/4W [M]	R432	ERDS2TJ682T	6.8K 1/4W [M]	R626	ERDS2TJ106T	10M 1/4W [M]
R5	ERDS2TJ221T	220 1/4W [M]	R208	ERDS2TJ472T	4.7K 1/4W [M]	R501	ERDS2TJ103T	10K 1/4W [M]	R627	ERDS2TJ334T	330K 1/4W [M]
R6	ERDS2TJ104T	100K 1/4W [M]	R251	ERDS2TJ822T	8.2K 1/4W [M]	R502	ERDS2TJ683T	68K 1/4W [M]	R628	ERDS2TJ105T	1M 1/4W [M]
R8	ERDS2TJ104T	100K 1/4W [M]	R254	ERDS2TJ181T	180 1/4W [M]	R503	ERDS2TJ562T	5.6K 1/4W [M]	R630	ERDS2TJ334T	330K 1/4W [M]
R9	ERDS2TJ104T	100K 1/4W [M]	R255	ERD2FCVJ4R7T	4.7 1/4W [M]	R504	ERDS2TJ682T	6.8K 1/4W [M]	R636	ERDS2TJ102T	1K 1/4W [M]
R11	ERDS2TJ223T	22K 1/4W [M]	R256	ERD2FCVJ4R7T	4.7 1/4W [M]	R506	ERDS2TJ332T	3.3K 1/4W [M]	R638	ERDS2TJ102T	1K 1/4W [M]
R12	ERDS2TJ103T	10K 1/4W [M]	R301	ERDS2TJ223T	22K 1/4W [M]	R507	ERDS2TJ104T	100K 1/4W [M]	R639	ERDS2TJ102T	1K 1/4W [M]
R16	ERDS2TJ104T	100K 1/4W [M]	R302	ERDS2TJ101T	100 1/4W [M]	R508	ERDS2TJ391T	390 1/4W [M]	R640	ERDS2TJ103T	10K 1/4W [M]
R17	ERDS2TJ222T	2.2K 1/4W [M]	R303	ERDS2TJ751T	750 1/4W [M]	R509	ERDS2TJ472T	4.7K 1/4W [M]	R641	ERDS2TJ103T	10K 1/4W [M]
R20	ERDS2TJ223T	22K 1/4W [M]	R304	ERDS2TJ563T	56K 1/4W [M]	R510	ERDS2TJ472T	4.7 1/4W [M]	R642	ERDS2TJ223T	22K 1/4W [M]
R21	ERDS2TJ473T	47K 1/4W [M]	R305	ERDS2TJ221T	220 1/4W [M]	R511	ERDS2TJ474T	470K 1/4W [M]	R643	ERDS2TJ224T	220K 1/4W [M]
R22	ERDS2TJ102T	1K 1/4W [M]	R306	ERDS2TJ100T	10 1/4W [M]	R512	ERDS2TJ392T	3.9K 1/4W [M]	R646	ERDS2TJ101T	100 1/4W [M]
R23	ERDS2TJ223T	22K 1/4W [M]	R307	ERDS2TJ272T	2.7K 1/4W [M]	R513	ERDS2TJ681T	680 1/4W [M]	R648	ERDS2TJ221T	220 1/4W [M]
R24	ERDS2TJ103T	10K 1/4W [M]	R351	ERDS2TJ103T	10K 1/4W [M]	R516	ERDS2TJ473T	47K 1/4W [M]	R649	ERDS2TJ223T	22K 1/4W [M]
R25	ERDS2TJ223T	22K 1/4W [M]	R352	ERDS2TJ103T	10K 1/4W [M]	R517	ERDS2TJ105T	1M 1/4W [M]	R650	ERDS2TJ182T	1.8K 1/4W [M]
R26	ERDS2TJ103T	10K 1/4W [M]	R353	ERDS2TJ563T	56K 1/4W [M]	R518	ERDS2TJ103T	10K 1/4W [M]	R654	ERDS2TJ332T	3.3K 1/4W [M]
R27	ERDS2TJ332T	3.3K 1/4W [M]	R354	ERDS2TJ471T	470 1/4W [M]	R519	ERDS2TJ822T	8.2K 1/4W [M]	R655	ERDS2TJ391T	390 1/4W [M]
R28	ERDS2TJ223T	22K 1/4W [M]	R355	ERDS2TJ274T	270K 1/4W [M]	R520	ERDS2TJ102T	1K 1/4W [M]	R656	ERDS2TJ473T	47K 1/4W [M]
R29	ERDS2TJ103T	10K 1/4W [M]	R401	ERDS2TJ103T	10K 1/4W [M]	R521	ERDS2TJ102T	1K 1/4W [M]	R658	ERDS2TJ473T	47K 1/4W [M]
R30	ERDS2TJ472T	4.7K 1/4W [M]	R402	ERDS2TJ683T	68K 1/4W [M]	R522	ERDS2TJ683T	68K 1/4W [M]	R660	ERDS2TJ151T	150 1/4W [M]
R31	ERDS2TJ222T	2.2K 1/4W [M]	R403	ERDS2TJ562T	5.6K 1/4W [M]	R523	ERDS2TJ682T	6.8K 1/4W [M]	R661	ERDS2TJ181T	180 1/4W [M]
R32	ERDS2TJ471T	470 1/4W [M]	R404	ERDS2TJ682T	6.8K 1/4W [M]	R524	ERDS2TJ153T	15K 1/4W [M]	R662	ERDS2TJ103T	10K 1/4W [M]
R91	ERDS2TJ330T	33 1/4W [M]	R406	ERDS2TJ332T	3.3K 1/4W [M]	R528	ERDS2TJ102T	1K 1/4W [M]	R663	ERDS2TJ122T	1.2K 1/4W [M]
R92	ERDS2TJ223T	22K 1/4W [M]	R407	ERDS2TJ104T	100K 1/4W [M]	R532	ERDS2TJ682T	6.8K 1/4W [M]	R666	ERDS2TJ472T	4.7K 1/4W [M]
R101	ERDS2TJ183T	18K 1/4W [M]	R408	ERDS2TJ391T	390 1/4W [M]	R603	ERDS2TJ221T	220 1/4W [M]	R667	ERDS2TJ104T	100K 1/4W [M]
R102	ERDS2TJ272T	2.7K 1/4W [M]	R409	ERDS2TJ472T	4.7K 1/4W [M]	R604	ERDS2TJ153T	15K 1/4W [M]	R668	ERDS2TJ103T	10K 1/4W [M]
R104	ERDS2TJ274T	270K 1/4W [M]	R410	ERDS2TJ472T	4.7 1/4W [M]	R605	ERDS2TJ153T	15K 1/4W [M]	R669	ERDS2TJ123T	12K 1/4W [M]
R105	ERDS2TJ680T	68 1/4W [M]	R411	ERDS2TJ474T	470K 1/4W [M]	R606	ERDS2TJ153T	15K 1/4W [M]	R670	ERDS1FVJ1R0T	1 1/2W [M]
R106	ERDS2TJ222T	2.2K 1/4W [M]	R412	ERDS2TJ392T	3.9K 1/4W [M]	R607	ERDS2TJ104T	100K 1/4W [M]	R671	ERDS2TJ151T	150 1/4W [M]
R107	ERDS2TJ682T	6.8K 1/4W [M]	R413	ERDS2TJ681T	680 1/4W [M]	R608	ERDS2TJ334T	330K 1/4W [M]	R672	ERDS2TJ124T	120K 1/4W [M]
R108	ERDS2TJ472T	4.7K 1/4W [M]	R416	ERDS2TJ473T	47K 1/4W [M]	R609	ERDS2TJ153T	15K 1/4W [M]	R673	ERDS2TJ105T	1M 1/4W [M]
R151	ERDS2TJ822T	8.2K 1/4W [M]	R417	ERDS2TJ105T	1M 1/4W [M]	R610	ERDS2TJ152T	1.5K 1/4W [M]	R674	ERDS2TJ151T	150 1/4W [M]
R154	ERDS2TJ181T	180 1/4W [M]	R418	ERDS2TJ103T	10K 1/4W [M]	R611	ERDS2TJ393T	39K 1/4W [M]	R675	ERDS2TJ181T	180 1/4W [M]
R155	ERD2FCVJ4R7T	4.7 1/4W [M]	R419	ERDS2TJ822T	8.2K 1/4W [M]	R612	ERDS2TJ472T	4.7K 1/4W [M]	R676	ERDS2TJ335T	3.3M 1/4W [M]
R156	ERD2FCVJ4R7T	4.7 1/4W [M]	R420	ERDS2TJ102T	1K 1/4W [M]	R613	ERDS2TJ333T	33K 1/4W [M]	R677	ERDS2TJ472T	4.7K 1/4W [M]
R201	ERDS2TJ183T	18K 1/4W [M]	R421	ERDS2TJ102T	1K 1/4W [M]	R614	ERDS2TJ104T	100K 1/4W [M]	R678	ERDS2TJ103T	10K 1/4W [M]
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Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values	s & Remar	Ref No	Part No.	Value	s & Remarks	Ref No.	Part No.	Values		emarks
R679	ERDS2TJ153T	15K 1/4W [M]	R743	ERJ6GEYJ562A	5.6K 1	1/10W [M]	C23	ECFR1C333MR	0.033	16V [M]	C302	ECA1AM221B	220	10V	[M]
R680	ERDS2TJ103T	10K 1/4W [M]	R744	ERJ6GEYJ104A	100K 1	1/10W [M]	C24	ECFR1C333MR	0.033	16V [M]	C303	ECA1HM2R2B	2.2	50V	[M]
R681	ERDS2TJ223T	22K 1/4W [M]	R745	ERJ6GEYJ155A	1.5M 1	1/10W [M]	C30	ECBT1H331KB5	330P	50V [M]	C304	ECQP2A102JZT	1000P	100V	/[M]
R682	ERDS2TJ681T	680 1/4W [M]	R748	ERJ6GEYJ272A	2.7K 1	1/10W [M]	C31	ECBT1C103MS5	0.01	16V [M]	C305	ECA1CM101B	100	16V	[M]
R683	ERDS2TJ223T	22K 1/4W [M]	R749	ERJ6GEYJ682A	6.8K 1	1/10W [M]	C32	ECBT1H102KB5	1000F	50V [M]	C306	ECBT1C822MS5	8200P	16V	[M]
R684	ERDS2TJ122T	1.2K 1/4W [M]	R751	ERDS2TJ472T	4.7K 1	1/4W [M]	C33	ECBT1H102KB5	1000F	50V [M]	C307	ECBT1C103MS5	0.01	16V	[M]
R686	ERDS2TJ472T	4.7K 1/4W [M]	R752	ERDS2TJ102T	1K 1	1/4W [M]	C34	ECBT1H102KB5	1000F	50V [M]	C310	ECQP2A151JZT	150P	100\	/ [M]
R687	ERDS2TJ103T	10K 1/4W [M]	R753	ERDS2TJ102T	1K 1	1/4W [M]	C35	ECA1CM101B	100	16V [M]	C311	ECBT1C103MS5	0.01	16V	[M]
R689	ERD2FCVG390T	39 1/4W [M]	R770	ERJ6GEYJ224A	220K 1	1/10W [M]	C36	ECA1EM101B	100	25V [M]	C351	ECA1CM100B	10	16V	[M]
R690	ERDS2TJ1R5T	1.5 1/4W [M]	R801	ERDS2TJ152T	1.5K 1	1/4W [M]	C37	ECBT1C103MS5	0.01	16V [M]	C352	ECA1CM101B	100	16V	[M]
R691	ERDS2TJ1R5T	1.5 1/4W [M]	R802	ERDS2TJ222T	2.2K 1	1/4W [M]	C39	ECBT1H180JC5	18P	50V [M]	C353	ECA1EM332E	3300	25V	
R692	ERDS2TJ1R5T	1.5 1/4W [M]	R803	ERDS2TJ272T		1/4W [M]	C40	ECBT1C222MR5	2200F	2 16V [M]	C354	ECA1EM101B	100	25V	
R693	ERDS2TJ472T	4.7K 1/4W [M]	R804	ERDS2TJ392T		1/4W [M]	C42	ECBT1H330J5	33P	50V [M]	C355	ECA1CM220B	20	16V	
R694	ERDS2TJ121T	120 1/4W [M]	R805	ERDS2TJ562T		1/4W [M]	C43	ECBT1H101KB5	100P	50V [M]	C403	ECEA1CKA100B	10	16V	
R695	ERDS2TJ471T	470 1/4W [M]	R806	ERDS2TJ822T		1/4W [M]	C44	ECA1HM2R2B	2.2	50V [M]	C404	ECA1HM010B	1	50V	$\dot{-}$
R696	ERDS2TJ101T	100 1/4W [M]	R807	ERDS2TJ153T		1/4W [M]	C45	ECBT1H102KB5	ļ	50V [M]	C405	ECBT1H101KB5	ļ .	50V	
R698	ERDS2TJ152T	1.5K 1/4W [M]	R808	ERDS2TJ333T		1/4W [M]	C48	ECA1HM010B	1	50V [M]	C406	ECEA1HKA010B	1	50V	
R699	ERDS2TJ562T	5.6K 1/4W [M]	R809	ERDS2TJ823T		1/4W [M]	C49	ECBT1H102KB5	1	9 50V [M]	C408	ECA1HM100B	10	50V	
R701	ERJ6GEYJ4R7A	4.7 1/10W [M]	R851	ERDS2TJ153T		1/4W [M]	C50	ECBT1H102KB5	-	50V [M]	C409	ECA1CM100B	10	16V	
R702	ERJ6GEYJ822A	8.2K 1/10W [M]	R857	ERDS2TJ103T		1/4W [M]	C51	ECA1HM010B	1	50V [M]	C410	ECBT1H101KB5	-	50V	
R704	ERJ6GEYJ102A	1K 1/10W [M]	R888	ERDS2TJ103T		1/4W [M]	C53	ECBT1H102KB5	ļ	50V [M]	C411	ECA1HM010B	1	50V	
R705	ERJ6GEYJ124A	120K 1/10W [M]	R901	ERDS2TJ271T	_	1/4W [M]	C54	ECBT1H102KB5	1	50V [M]	C412	ECFR1C683MR	0.068		
R706	ERJ6GEYJ102A	1K 1/10W [M]	R902	ERDS2TJ683T		1/4W [M]	C91	ECA1HM3R3B	3.3	50V [M]	C413	ECFR1C683MR			
R707	ERJ6GEYJ474A	470K 1/10W [M]	R903	ERDS2TJ272T		1/4W [M]	C92	ECBT1H331KB5	330P	50V [M]	C414		0.068		
R708	ERJ6GEYJ154A	150K 1/10W [M]	11000	LINDOZIOZIZI	2.71	11-444 [IAI]	C98	ECBT1H331KB5	330P	50V [M]	C414	ECA1HMR22B ECA1HMR22B		50V	
R709	ERJ6GEYJ473A	47K 1/10W [M]		CAPACITORS			C101	ECBT1C122MR5	-	7 16V [M]	C428	ECFR1C123KR	-	50V	
R710	ERJ6GEYJ103A	10K 1/10W [M]	<u> </u>	OAI AOITOILO			C102	ECBT1C332MR5	-		C503		0.012		
R711	ERJ6GEYJ154A	150K 1/10W [M]	C1	ECBT1H470J5	47P	50V [M]	C102	ECBT1H681KB5	680P	7 16V [M]	C503	ECEA1CKA100B ECA1HM010B	10	16V	
R712	ERJ6GEYJ221A	220 1/10W [M]	C2	ECBT1H100JC5	-	50V [M]	C104	ECA1CM101B	100	50V [M]	C504	ECBT1H101KB5	<u> </u>	50V	
R715	ERJ6GEYJ122A	1.2K 1/10W [M]	C3	ECFR1C223MR		16V [M]	C107	ECA1CM100B	100		C506	ECA1HM010B	1	50V	
R717	ERJ6GEYJ102A	1K 1/10W [M]	C4	ECBT1H102KB5		50V [M]	C107		 	16V [M]	<u> </u>		·	50V	
R718	ERJ6GEYJ102A	1K 1/10W [M]	C5	ECBT1H5R6KC5	-	50V [M]	C151	ECBT0J223MS5 ECBT1H102KB5	-	6.3V [M]	C507	ECFR1C682KR		16V	
R719	ERJ6GEYJ102A	1K 1/10W [M]	C6	ECBT1H102KB5	<u> </u>	50V [M]	C151	ECA1CM100B	 	2 50V [M]	C509	ECEA1CKA100B	10 100B	16V	
R720	ERJ6GEYJ102A	1K 1/10W [M]	C7	ECBT1H150JC5		50V [M]	C152	ECA1HM2R2B	10	16V [M]	C510	ECBT1H101KB5	100P		
R721	ERJ6GEYJ101A	100 1/10W [M]	C8	ECBT1H102KB5		50V [M]	C153	ECQV1H104JZ3	2.2	50V [M]	C511	ECERTOGRAMB	1 0.000	50V	• •
R723	ERJ6GEYJ272A	2.7K 1/10W [M]	C9	ECBT1H102KB5		50V [M]	C155	ECQV1H104JZ3	0.1	50V [M]	C512	ECFR1C683MR	0.068		
R724	ERJ6GEYJ333A	33K 1/10W [M]	C10	ECBT1H100JC5	_	50V [M]	C201	ECGV1H104323 ECBT1C122MR5	12005	50V [M]	C513	ECFR1C683MR ECA1HMR22B	0.068		
R725	ERJ6GEYJ122A	1.2K 1/10W [M]	C12	ECBT1H331KB5	-	50V [M]	C201		1-	9 16V [M]	C514			50V	
R727	ERJ6GEYJ682A	6.8K 1/10W [M]	C13	ECA1CM100B		16V [M]		ECBT1U691KD5	-	9 16V [M]	C526	ECA1HMR22B	-	50V	
R728	ERJ6GEYJ682A	6.8K 1/10W [M]	C14				C204	ECBT1H681KB5	1	50V [M]	C528	ECFR1C123KR	0.012		
R729	ERJ6GEYJ562A	5.6K 1/10W [M]	C14	ECBT1H102KB5 ECFR1C683MR		50V [M]	C206	ECA1CM101B	100	16V [M]	C601	ECBT1H561KB5	560P		
					_		C207	ECA1CM100B	10	16V [M]	C603	ECA1HM010B	1	50V	
R731 R734	ERJ6GEYJ123A	12K 1/10W [M]	C16	ECFR1C823MR	_	16V [M]	C208	ECBT0J223MS5		6.3V [M]	C605	ECA1HM010B	1	50V	
	ERJ6GEYJ101A	100 1/10W [M]	C17	ECFR1C823MR		16V [M]	C251	ECBT1H102KB5		50V [M]	C606	ECBT1H561KB5	 	50V	
R735	ERJ6GEYJ101A	100 1/10W [M]	C18	ECFR1C333MR		16V [M]	C252	ECA1CM100B	10	16V [M]	C607	ECBT1H101KB5	-	50V	
R736	ERJ6GEYJ101A	100 1/10W [M]	C19	ECFR1C333MR		16V [M]	C253	ECA1HM2R2B	2.2	50V [M]	C609	ECBT1H101KB5	100P	50V	[M]
R738	ERJ6GEYJ223A	22K 1/10W [M]	C20	ECA1HM010B	-	50V [M]	C254	ECQV1H104JZ3	0.1	50V [M]	C615	ECBT1H180JC5	18P	50V	[M]
R741	ERJ6GEYJ562A	5.6K 1/10W [M]	C21	ECA1HM010B		50V [M]	C255	ECQV1H104JZ3	0.1	50V [M]	C616	ECBT1H220JC5		50V	
R742	ERJ6GEYJ562A	5.6K 1/10W [M]	C22	ECA1HM4R7B	4.7	50V [M]	C301	ECA1CM101B	100	16V [M]	C617	ECBT1H102KB5	1000P	50V	[M]

Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Value	es & Remar	s Ref No	. Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks
C618	ECBT1H102KB5	1000P 50V [M]	C728	ECA1HAK010XI	1	50V [M]		CHIP JUMPERS				
C619	ECBT1H102KB5	1000P 50V [M]	C730	ECUZ1E104ZFN	0.1	25V [M]	-	OTHE GOME ENS				
C620	ECBT1H820KB5	82P 50V [M]	C731	ECEA0JKA221I	220	6.3V [M]	RJ701	ERJ6GEY0R00A	0 1/10W [M]			
C621	ECBT1H101KB5	100P 50V [M]	C732	ECEA0JKA221I	220	6.3V [M]	RJ702		0 1/8W [M]			
C622	ECBT1H102KB5	1000P 50V [M]	C733	ECUZ1E104MBN	0.1	25V [M]	RJ703		0 1/8W [M]			
C623	ECA1CM101B	100 16V [M]	C734	ECEA1AKA221I	220	10V [M]	RJ704	ERJ8GEY0R00A	0 1/8W [M]			
C624	ECBT1H680J5	68P 50V [M]	C735	ECUZ1E104ZFN	0.1	25V [M]	RJ705	ERJ8GEY0R00A	0 1/8W [M]			
C625	ECBT1H820KB5	82P 50V [M]	C736	ECUZ1E104ZFN	0.1	25V [M]	RJ706	ERJ8GEY0R00A		-		
C626	ECBT1H470J5	47 50V [M]	C737	ECUZ1E104ZFN	0.1	25V [M]	RJ707	ERJ8GEY0R00A	0 1/8W [M] 0 1/8W [M]	-		
C628	ECA1CM101B	100 16V [M]	C738	ECUZ1E104MBN	0.1	25V [M]	RJ708	ERJ8GEY0R00A				
C629	ECA1CM101B	100 16V [M]	C739	ECUZ1H103KBN	0.01	50V [M]	RJ709	ERJ8GEY0R00A				
C631	ECBT1H470J5	47 50V [M]	C742	ECUZ1E273KBN		25V [M]	RJ710	ERJ8GEY0R00A				
C632	ECA1CM101B	100 16V [M]	C743	ECUZ1E104ZFN	0.1	25V [M]	RJ721	ERJ6GEY0R00A				
C633	ECA1CM100B	10 16V [M]	C744	ECUZ1E123KBN	_	25V [M]	RJ722	ERJ6GEY0R00A				
C636	ECBT1H561KB5	560P 50V [M]	C745	ECUZ1C473KBN		16V [M]	RJ723	ERJ6GEY0R00A		-		
C637	ECA1CM331B	330 16V [M]	C747	ECUV1H221KBN	220P	50V [M]	RJ724	ERJ6GEY0R00A	0 1/10W [M]			
C638	ECA1HMR47B	0.47 50V [M]	C749	ECUZ1H222KBN		50V [M]	RJ725	ERJ6GEY0R00A	0 1/10W [M] 0 1/10W [M]			
C640	ECA1CM220B	20 16V [M]	C750	ECUZ1E104MBN	0.1	25V [M]	RJ726	ERJ6GEY0R00A				
C641	ECA1CM101B	100 16V [M]	C751	ECUZ1E104MBN	0.1	25V [M]	RJ727	ERJ6GEY0R00A				
C642	ECA1CM101B	100 16V [M]	C752	ECUZ1H102KBN		50V [M]	RJ728	ERJ6GEY0R00A				
C644	ECA1CM100B	10 16V [M]	C753	ECUZ1H471KBM		50V [M]	RJ750	ERJ6GEY0R00A	0 1/10W [M]			
C646	ECBT1H330J5	33P 50V [M]	C754	ECUZ1H471KBN	470P	50V [M]	110750	LHJUGETUNUUA	0 1/10W [M]			
C648	ECBT1H330J5	33P 50V [M]	C761	ECUZ1H471KBN		50V [M]		TEST JUMPER				
C650	ECBT1H330J5	33P 50V [M]	C762	ECUZ1H471KBN		50V [M]	-	TEST SOMPER				
C654	ECBT1H102KB5	1000P 50V [M]	C852	ECBT1H100JC5	10P	50V [M]	TJ701	EYF8CU	TECT HIMDED (8.4)			
C655	ECBT1C103MS5	0.01 16V [M]	C854	ECBT1H102KB5		50V [M]	10/01	ETFOCO	TEST JUMPER [M]			
C701	ECEA0JKA330I	33 6.3V [M]	C860	ECBT1H101KB5		50V [M]	-					
C702	ECUZ1E104MBN	0.1 25V [M]	C901	ECKR1H103ZF5		50V [M]						
C703	ECEA0JKA101I	100 6.3V [M]	C902			50V [M]						
C704	ECUZ1E104MBN	0.1 25V [M]	C903	ECKR1H103ZF5	0.01	50V [M]	-					
C706	ECUZ1H272KBN		C904		0.01	50V [M]	╂					
C707	ECUZ1E273KBN	0.027 25V [M]	-	25/4////002/0	0.01							
	ECUV1H151KCN	150P 50V [M]										
	ECUZ1E104ZFN	0.1 25V [M]			-		-					
	ECUZ1E104ZFN	0.1 25V [M]					╢					
	ECUZ1E104MBN	0.1 25V [M]									****	
	ECEA0JKA101I	100 6.3V [M]										
\vdash	ECUZ1H182KBN	1800P 50V [M]										
C716	ECUZ1H821KBN	820P 50V [M]										
	ECUZ1E104ZFN	0.1 25V [M]	-	~ .			-					
	ECUZ1C224KBN	0.22 16V [M]					 					
	ECUZ1H150JCN	15P 50V [M]					-					
-	ECUZ1H150JCN	15P 50V [M]										
-	ECEA1AKA221I											
\vdash	ECUZ1E104MBN	220 10V [M] 0.1 25V [M]					-					
	ECUZ1H102KBN	1000P 50V [M]					-				1	
	ECUZ1H102KBN	1000P 50V [M]										
	ECA1HAK010XI	1 50V [M]										
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Packing Materials & Accessories

Notes : [M] in Remarks column indicates parts supplied by MESA.

Remote Control Unit: Supply period for three years from terminal of production.

Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS				ACCESSORIES		A2	RQT4257-H	O/I BOOK	[M]EG
								A2	RQT4258-B	O/I BOOK	[M]EB
P1	RPGX0474	GIFT BOX	[M]E	A1	EUR646552	REMOTE CONTROL	[M]	A3	RJA0019-2K	AC CORD _^	[M]EG E
P1	RPGX0475	GIFT BOX	[M]EB EG	A1-1	UR64EC2112	R/C BATTERY COVER	[M]	A3	RJA0053-1X	AC CORD	[M]EB
P2	RPH0131	MIRAMAT SHEET	[M]	A2	RQT4254-E	O/I BOOK	[M]E				, ,
P3	RPN1111	POLYFOAM	[M]	A2	RQT4255-R	O/I BOOK	[M]E				
				A2	RQT4256-D	O/I BOOK	[M]EG				

Packaging

