

Service Manual

Portable Stereo Component System

COMPACT
disc
 DIGITAL AUDIO

MASH*
 multi-stage noise shaping

Radio Cassette

RX-DT530

Colour

(K) . . . Black Type

Area

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

* MASH is a trademark of NTT.



TAPE DECK : SG-20W MECHANISM SERIES
TRAVERSE DECK : RAE0150Z MECHANISM SERIES

■ Specifications

■ Radio

Frequency range	
FM	87.5 – 108 MHz
MW	520 – 1610 kHz
LW	148.5 – 285 kHz
Intermediate frequency	
FM	10.7 MHz
AM	459 kHz
Sensitivity	
FM	16.5 dB/50 mW (– 3 dB limit sens.)
MW	56 dB/m/50mW
LW	63 dB/m/50mW

■ CD Player

Sampling frequency	44.1 kHz
Decoding	16 bit linear
Beam source	Semiconductor laser (wavelength 780nm)
No. of channels	2 channel, stereo
Frequency response	20 Hz – 20 kHz (+0, -2 dB)
S/N ratio	70 dB
Wow and flutter	Less than possible measurement data
D/A converter	MASH (1 bit DAC)

■ Tape Recorder

Track system	4 track, 2 channel, stereo
Recording system	AC bias
Erasing system	Magnet
Monitor system	Variable sound monitor
Frequency range	
Normal	50 – 14,000 Hz

■ General

Power requirement	
AC	230 – 240V, 50 Hz
Battery	Power consumption; 22W
Power output	9V (Six "D" size R20/LR20 batteries) 30 W (15 W x 2) ...PMPO 7 W (3.5 W x 2) ...RMS (max.)
Speakers	2 Woofer: 12 cm 2 Tweeter: 1.5 cm
Jacks	
Input	MIX MIC : 5 mV/(200 – 600 Ω)
Output	SPEAKER: 4~8 Ω Headphones: 32 Ω
Dimensions (W x H x D)	602 x 229 x 215 mm Main unit; 282 x 229 x 215 mm Speaker box; 170 x 224 x 190 mm
Weight	4.8kg without batteries

Note :

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

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⚠ WARNING

This service information is designed for experienced 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.

Contents

	PAGE		PAGE
• PRECAUTION OF LASER DIODE.....	2	• MEASUREMENTS AND ADJUSTMENTS.....	22 & 23
• CAUTION FOR AC MAINS LEAD.....	3	• TROUBLESHOOTING GUIDE.....	24
• HANDLING PRECAUTIONS FOR TRAVERSE DECK.....	4	• MECHANISM PARTS LOCATION.....	25 & 26
• OPERATION CHECKS AND MAIN COMPONENT REPLACEMENT.....	4 ~ 7	• CABINET PARTS LOCATION.....	27
• TERMINAL GUIDE OF ICs, TRANSISTORS & DIODES.....	8	• MECHANISM PARTS LIST.....	28
• TERMINAL FUNCTIONS OF ICs.....	8 ~ 10	• REPLACEMENT PARTS LIST.....	28 ~ 30
• SCHEMATIC DIAGRAM.....	11 ~ 17	• RESISTORS & CAPACITORS.....	30 & 31
• PRINTED CIRCUIT BOARD.....	18 ~ 20	• PACKING MATERIALS AND ACCESSORIES.....	32
• WIRE CONNECTION DIAGRAM.....	21		

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.
Wave length : 780 nm
Maximum output radiation power from pick up : 100 μW/VDE

Laser radiation from the pick up lens 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 pickup 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 : 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 lasereinheit nicht verstellen.
3. Nicht mit optischen instrumenten in die fokussierlinse blicken.
4. Nicht über längere zeit in die fokussierlinse blicken.

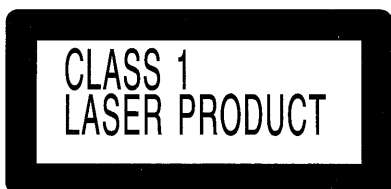
ADVARSEL: I dette a apparat anvendes laser.

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.

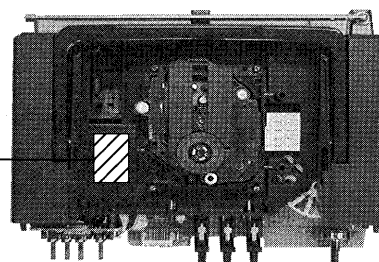
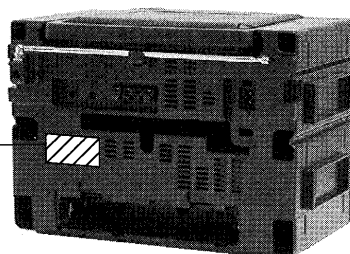
RQT4389ZAA



LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT

DANGER	INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. AVOID DIRECT EXPOSURE TO BEAM.
ADVARSEL	USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSETTELSE FOR STRÅLING.
VARO!	AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTIINNA NÄKYMÄTÖNÄ LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
WARNING	ÖSYNLIG LASERSTRÅLING NÅR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRÄKTA EJ STRÅLEN.
ADVARSEL	USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT	UNSICHTBARE LASERSTRÄHLUNG, WENN ABBECKUNG GEÖFFNET UND SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT. NICHT DEM STRAHL AUSSETZEN.

RQLS0119



■ Caution for AC Mains Lead

[For [EB] area.]

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  or the BSI mark  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 lead are coloured in accordance with the following code:

Blue: Neutral

Brown: Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

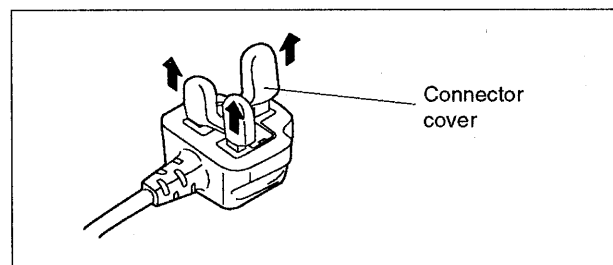
The wire which is coloured BLUE must be connected to the terminal in the plug which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal in the plug which is marked with the letter L or coloured RED.

Under no circumstances should either or these wires be connected to the earth terminal of the three pin plug, marked with the letter E or the Earth symbol \perp .

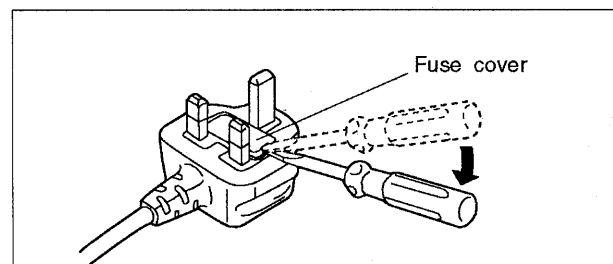
Before use

Remove the connector cover as follows.

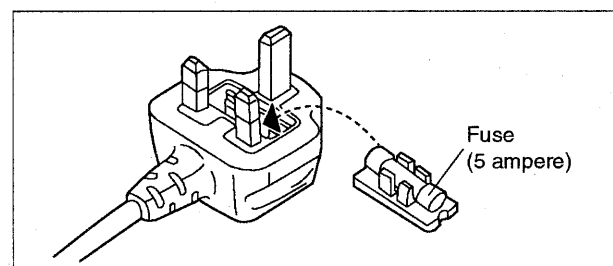


How to replace the fuse

1. Remove the fuse cover with a screwdriver.



2. Replace the fuse and attach the fuse cover.



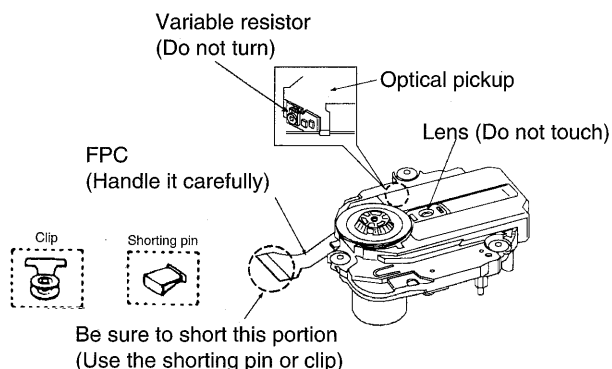
■ Handling Precautions For Traverse Deck

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.

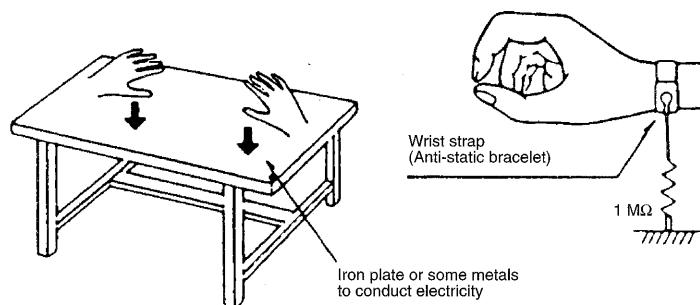


• Grounding for electrostatic breakdown prevention

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).



■ Operation Checks and Main Component Replacement Procedures

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.

• Contents

	page
• Disassembly of the Front Cabinet and Top Cabinet	3 & 4
• Checking Procedure for each major P.C.B.	
1. Checking for the Servo P.C.B.	4
2. Checking for the Main P.C.B.	5
3. Checking for the Power P.C.B.	5
• Main Component Replacement Procedures	
1. Replacement of Traverse Deck	6

Warning : This product uses a laser diode. Refer to caution statement on page 2.

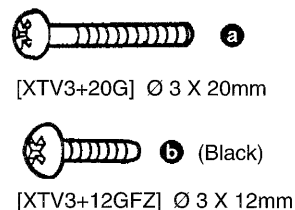
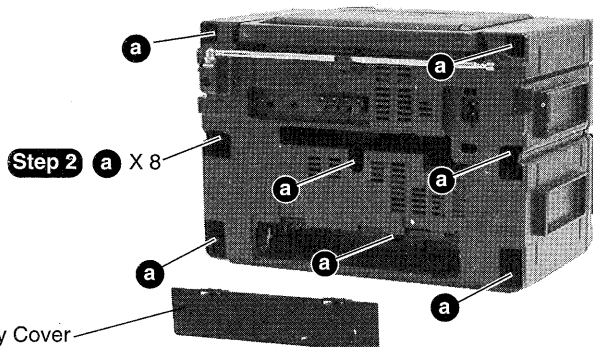
ACHTUNG : • Die lasereinheit nicht zerlegen.

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

■ Disassembly of the Front Cabinet and Top Cabinet

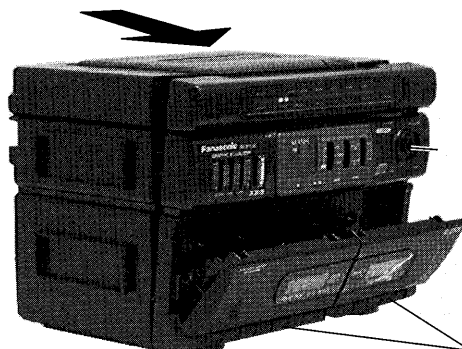
Step 1

Remove the Battery Cover.



Step 5

Remove the Front Cabinet
in the direction of arrow.

**Step 3**

Pull out the Volume knob.

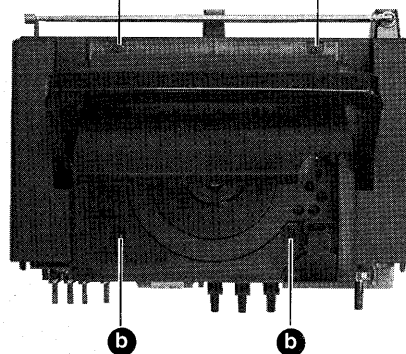
Step 4

Press the Eject button.

Step 6

b X 4

b

**Step 7**

Remove the
top cabinet
by pulling
the top
cabinet
straight
upward.

■ Checking Procedure For Each Major P.C.B.

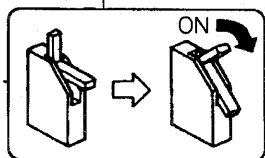
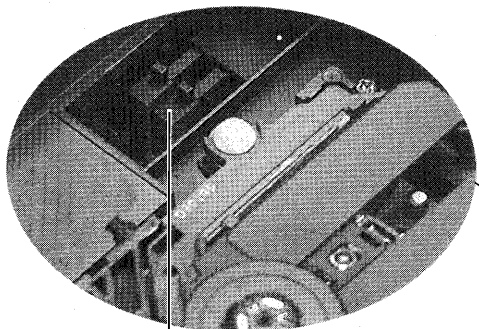
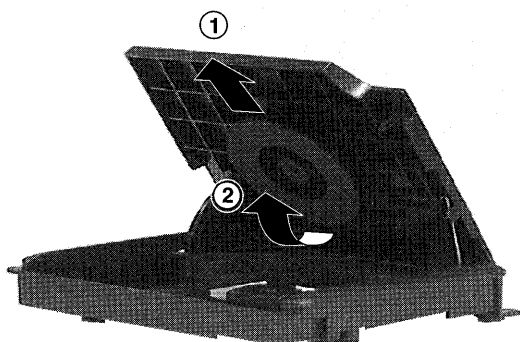
1. Checking of the Servo P.C.B.

Step 1

Disassemble the Front Cabinet and Top Cabinet.

Step 2

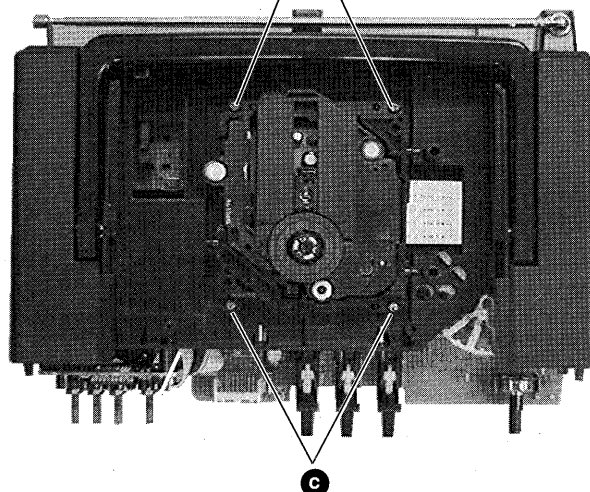
Remove the disk clamp unit in the direction of arrow ①
follow by ②.



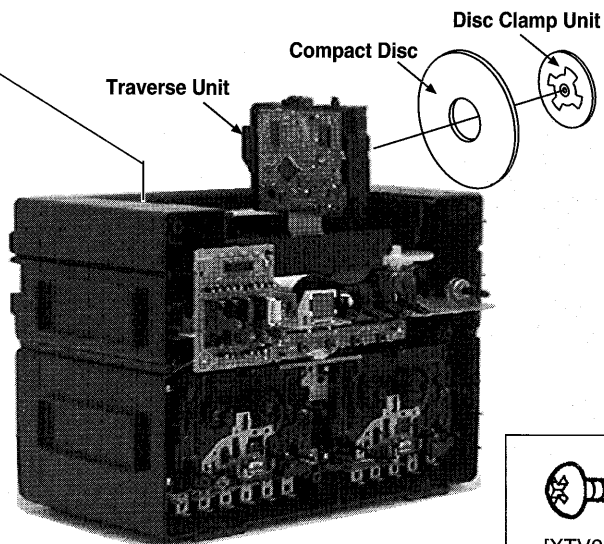
Note : Before perform checking, make sure
the switch SW351, SW352 is switch to
"ON" position (as shown in diagram).

Step 3

c X 4

**Step 4**

Place the Traverse Unit as shown below
and install the compact disk and disk clamp unit.



[XTV3+12G] Ø 3 X 12mm

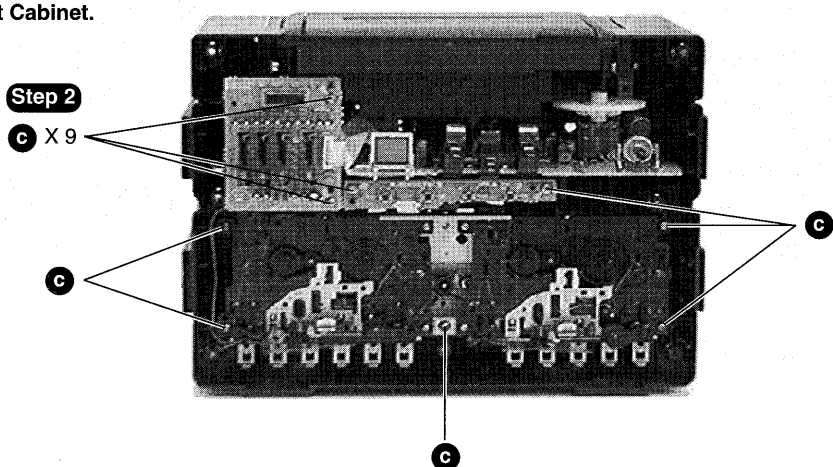
2. Checking of the Main P.C.B.

Step 1

Disassemble the Front Cabinet.

Step 2

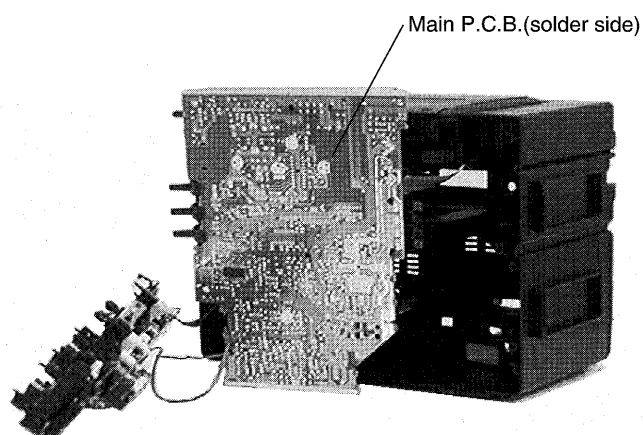
Ⓢ X 9



Step 3

Pull out the Main P.C.B.

Place the Main P.C.B. as shown below.



3. Checking of the Power P.C.B.

Step 1

Disassemble the Front Cabinet.

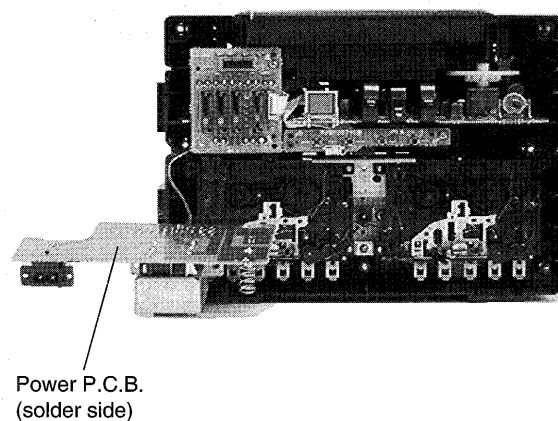
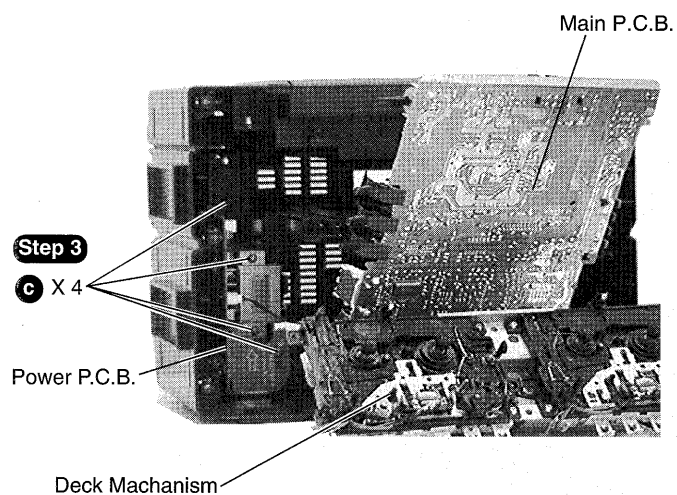
Step 2

Disassemble the Main P.C.B. (as in "Checking of the Main P.C.B.")

Step 4

Pull out the Power P.C.B.

Assemble back the Main P.C.B. and Deck Mechanism.
Place the Power P.C.B. as shown below.



■ Main Component Replacement Procedures

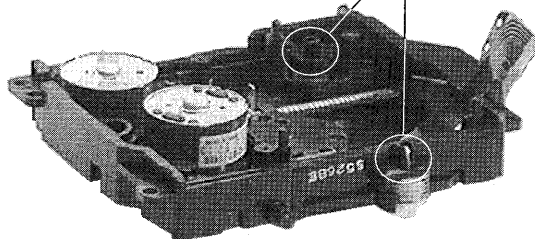
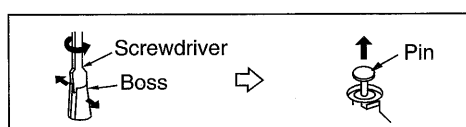
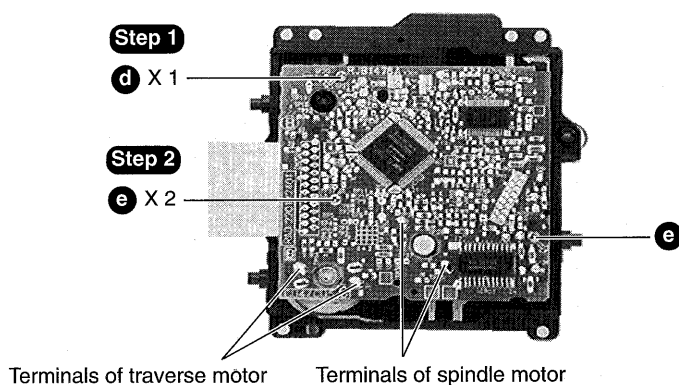
1. Replacement of the Traverse Deck.

Step 1

d X 1

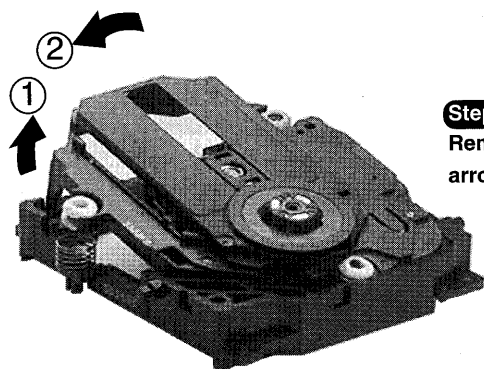
Step 2

e X 2



Step 6

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



Step 7

Remove the Traverse Deck Ass'y in the direction of arrow ① follow by ②.

Step 3

Desolder 2 terminals of spindle motor.

Step 4

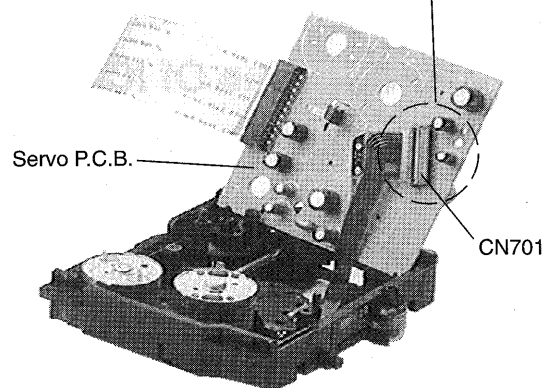
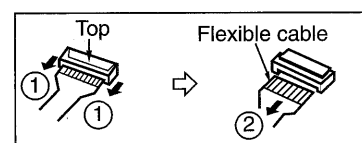
Desolder 2 terminals of traverse motor.

Step 5

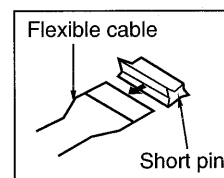
Remove the flexible cable from CN701.

• 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.



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



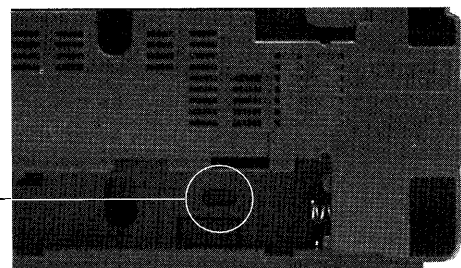
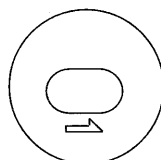
[XTN2+6G] Ø 2 X 6mm



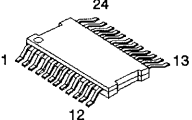
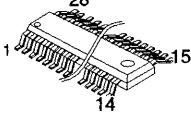
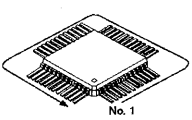
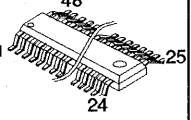
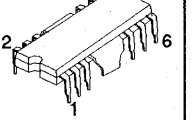
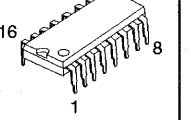
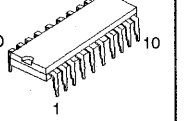
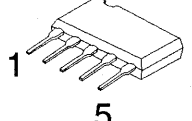
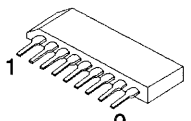
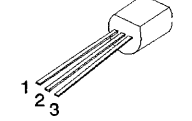
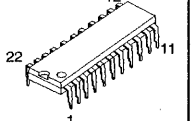
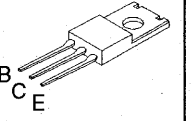
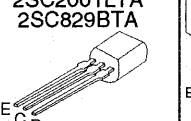
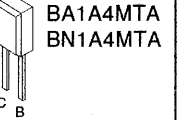
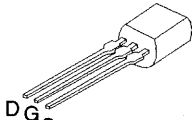
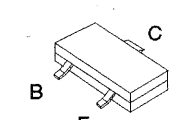
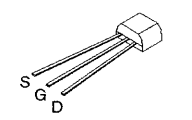
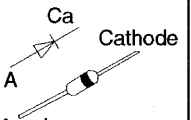
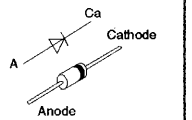
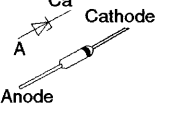
[XTV2+6G] Ø 2 X 6mm

■ What To Do When The Tape Is Entangled

When the tape is caught in the pinch roller, etc., release the tape by turning the pulley on the motor with a screw-driver in the direction of arrow.



■ Terminal Guide of ICs, Transistors & Diodes

AN8389SE1 	AN8835SBE1 	MN662741RPA 80 Pin 	UPD753204015 	TA8227P 	AN7317 	BA1442A 
BA7755A 	AN7205 	PST600DTA 	AN7330K 	2SB1566E 	2SC1684RTA 2SC1684STA 2SC2001LTA 2SC829BTA 	2SC2785FTA BA1A4MTA BN1A4MTA 
2SK301QTA 	2SB709S 	2SJ40CDTA 	RVD1SS133TA 	RL154M11 	MTZJ5R6BTA MTZJ6R2BTA MTZJ7R5CTA 	

■ Terminal Functions Of ICs

• IC303 (UPD753204016) System Microprocessor

Pin No.	Mark	I/O	Function
1-4	C0~C3	O	LCD common signal output
5	BIAS	I	LCD bias voltage
6-8	VLC0~VLC2	I	LCD bias reference voltage
9	/FLOCK	I	CD focus lock signal input
10	/TLOCK	I	CD tracking signal input
11	SENSE	I	CD sense signal input
12	CLOSESW	I	CD close detect switch signal input
13	VSS	—	GND
14	CDRST	O	CD reset output
15	MCLK	O	CD signal process IC control signal output
16	MDATA	O	CD signal process IC data output
17	MLD	O	CD signal process IC strove signal output
18	STOPKEY	I	CD stop switch input
19	R.SKIP	I	CD R.Skip/R.Search switch input
20	F.SKIP	I	CD F.Skip/F.Search switch input
21	PLAY	I	CD play/pause switch input
22	VDD	I	VDD (+5V)

Pin No.	Mark	I/O	Function
23	X1	I	System clock OSC
24	X2	O	
25	IC	I	Connect to VDD (+5V)
26	RESET	I	System reset signal input
27	BLKCLK	I	CD subcode block clock signal input
28	SQCK	O	CD subcode clock output
29	—	—	
30	SUBQ	I	CD subcode data input
31	RESETSW	I	Reset SW (S701) signal input
32	STAT	I	CD status signal input
33	DMUTE	O	CD muting control signal output
34-35	—	—	Not used
36	MUTEA	O	AF muting control signal output
37	RECH	I	REC detect signal input
38-44	—	—	Not used
45-48	S0-S3	O	LCD segment signal output

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

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

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

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

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

• IC701 (AN8835SBE1) Servo Amplifier

Pin No.	Mark	I/O	Function
1	PDA	I	PD signal input
2	PDB	I	PD signal input
3	VCC	I	Power supply connection
4	LPD	I	Laser PD connection
5	LD	O	Power out for LD driving
6	RF	O	RF signal output
7	RFIN	I	RF signal input
8	CAGC	I	AGC loop filter connection
9	ARF	O	RF-AGC output
10	CSBRT	I	Capacitor for detection connection
11	CEA	I	Capacitor connection for HPF amplifier
12	BDO	O	BDO output ("H" : drop out)
13	LDON	I	LD APC input ("H" : ON, "L" : OFF)
14	GND	—	Ground connection

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

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

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

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

Schematic Diagram

NOTES:

- SW1-1 ~ SW1-8 : Band Select Switch. (F...FM, M...MW, L...LW)
- SW301-1 ~ SW301-4 : Function Select Switch. (CD...CD, R...TUNER, T...TAPE/OFF)
- SW302-1 ~ SW302-2 : Edit/FM Mode BP Switch. (NORM...NORMAL, HIGH...HIGH/M...MONO, ST...STEREO/L...BEATPROOF I, II...BEATPROOF II, III...BEATPROOF III)
- SW351 : LD Switch.
- SW352 : CD Open/Close Switch.
- SW381 : CD Play/Pause Switch.
- SW382 : CD Forward Skip/Search Switch.
- SW383 : CD Reverse Skip/Search Switch.
- SW384 : CD Stop Switch.
- VR351-1 ~ VR351-2 : Volume Control VR.
- VR401-1 ~ VR401-2 : Graphic Equalizer VR (330Hz).
- VR402-1 ~ VR402-2 : Graphic Equalizer VR (1kHz).
- VR403-1 ~ VR403-2 : Graphic Equalizer VR (10kHz).
- VR404-1 ~ VR404-2 : XBS Level Control VR.
- VR601 : Motor Speed Adjustment VR.
- S501 : AC/Battery Select Switch.(JK501)
- S601 : Motor Switch (Deck 1).
- S602 : Motor Switch (Deck 2).
- S603 : Record Switch.
- S701 : Reset Switch.

Battery Current consumption:

Vol. min..... 70mA (RADIO)...FM
150mA (TAPE)
260mA (CD)

Vol. max..... 290mA (RADIO)...FM
530mA (TAPE)
1050mA (CD)

Measurement condition:

Radio : FM 60 dB, 30%mod
AM 74 dB/m, 30%mod
Tape : 315 Hz, 0dB
CD : 1kHz, 0dB

- 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... Tape Playback
() ... AM

< > ... FM
<< >> ... RECORD

(()) ... CD

CAUTION !

IC and LSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

- Cover the parts boxes made of plastics with aluminum foil.

- Ground the soldering iron.

- Put a conductive mat on the work table.

- Do not touch the pins of IC or LSI with fingers directly.

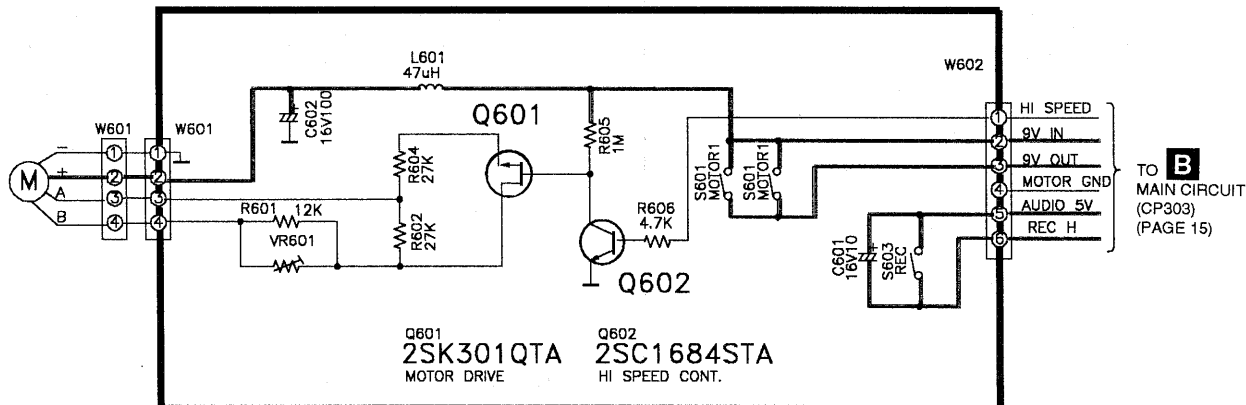
Important safety notice :

Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

- This schematic diagram may be modified at anytime with the development of new technology.

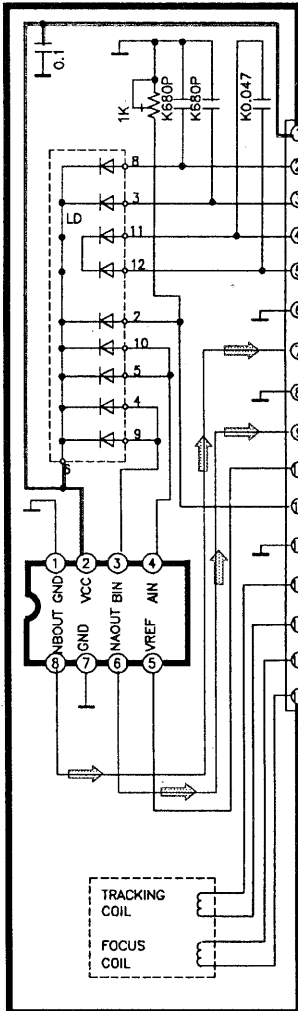
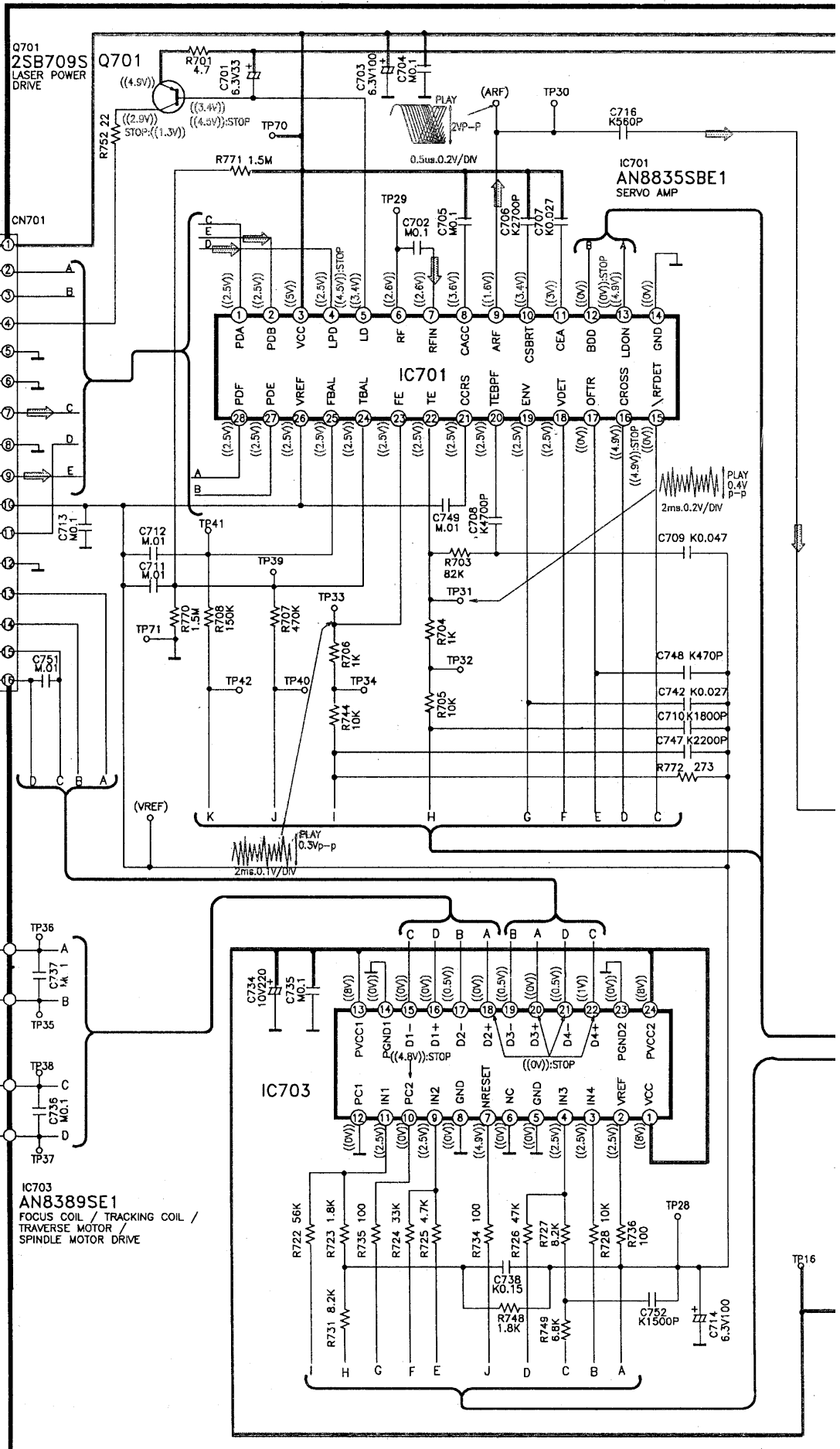


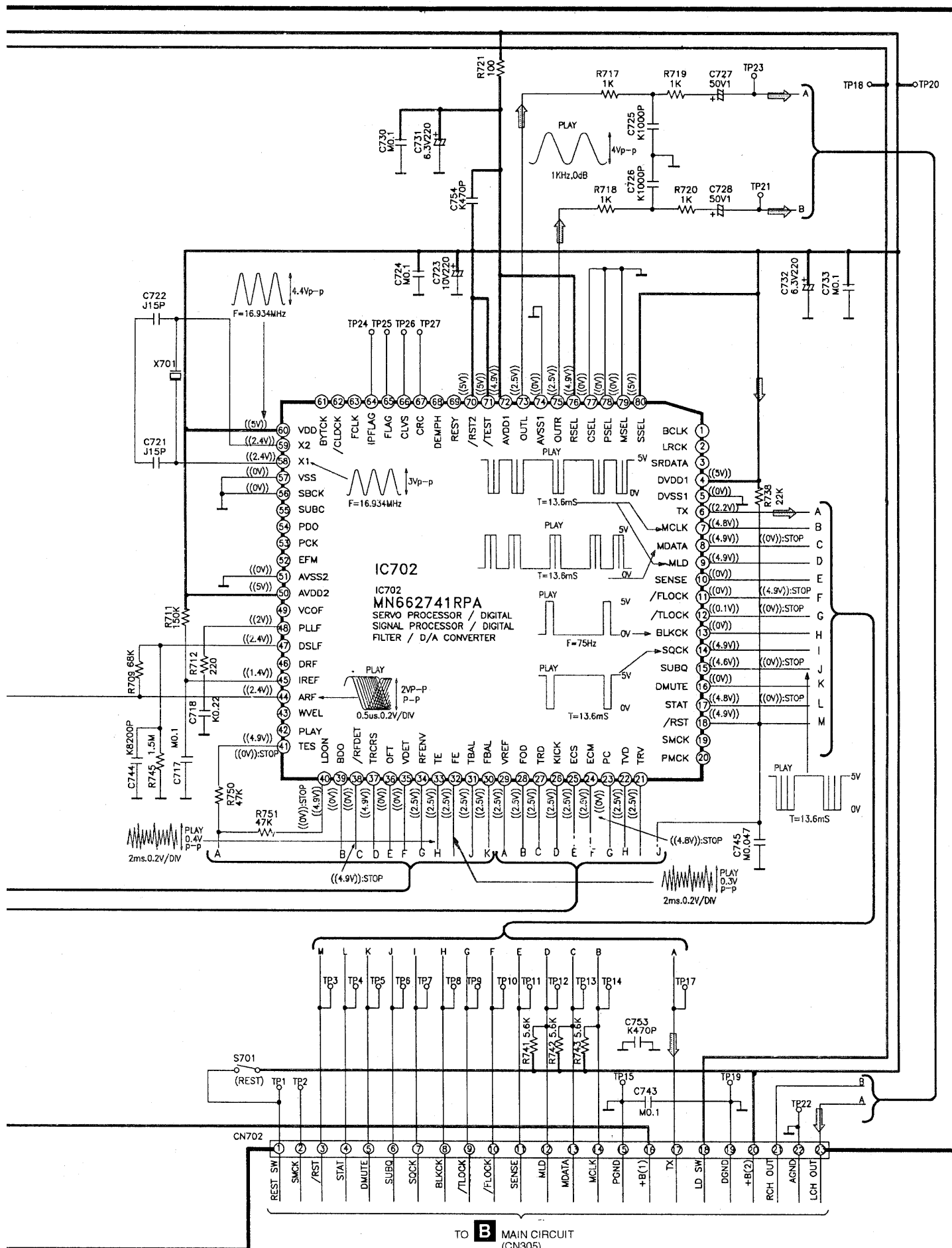
F MECHANISM CIRCUIT



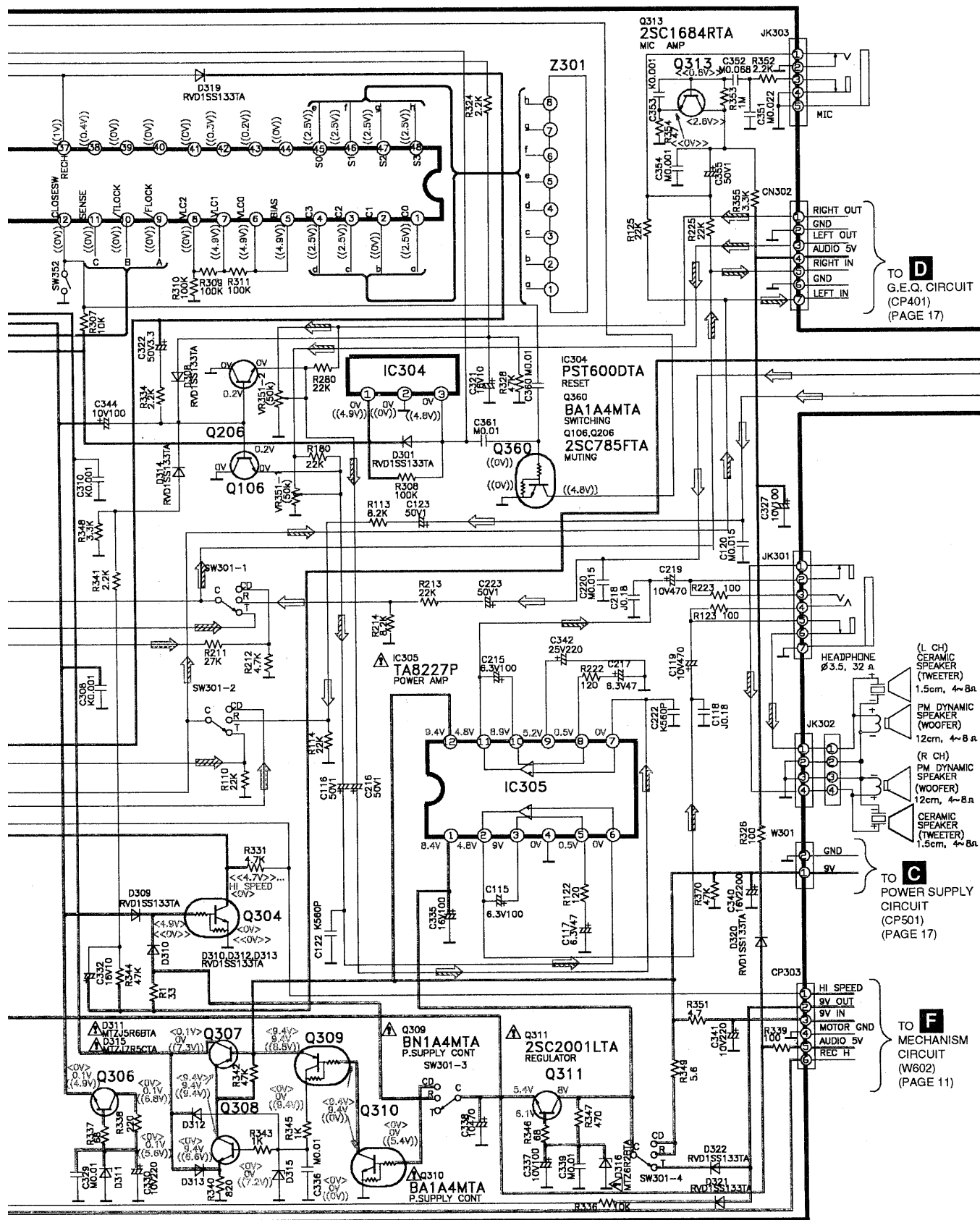
A SERVO CIRCUIT

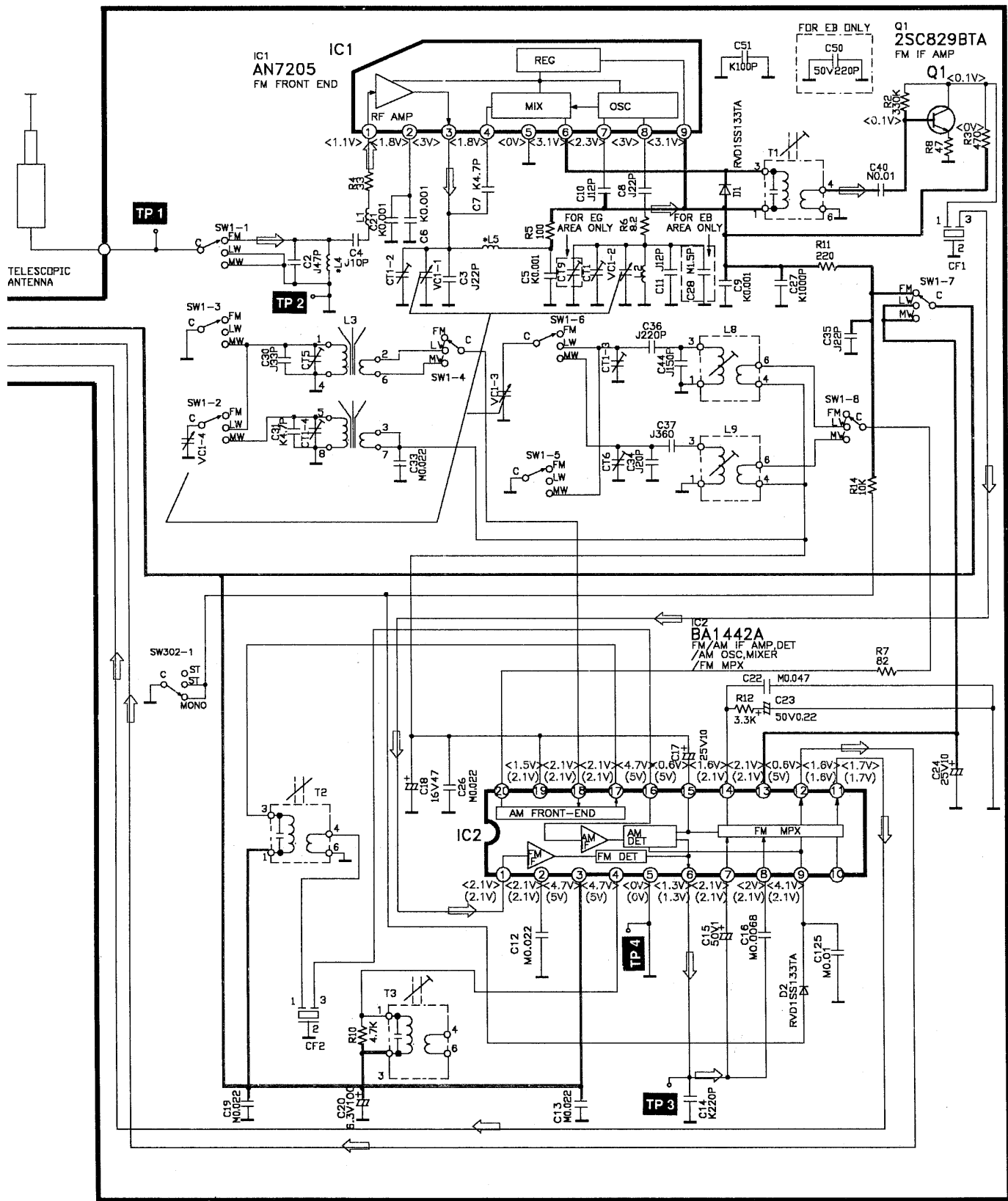
OPTICAL PICKUP

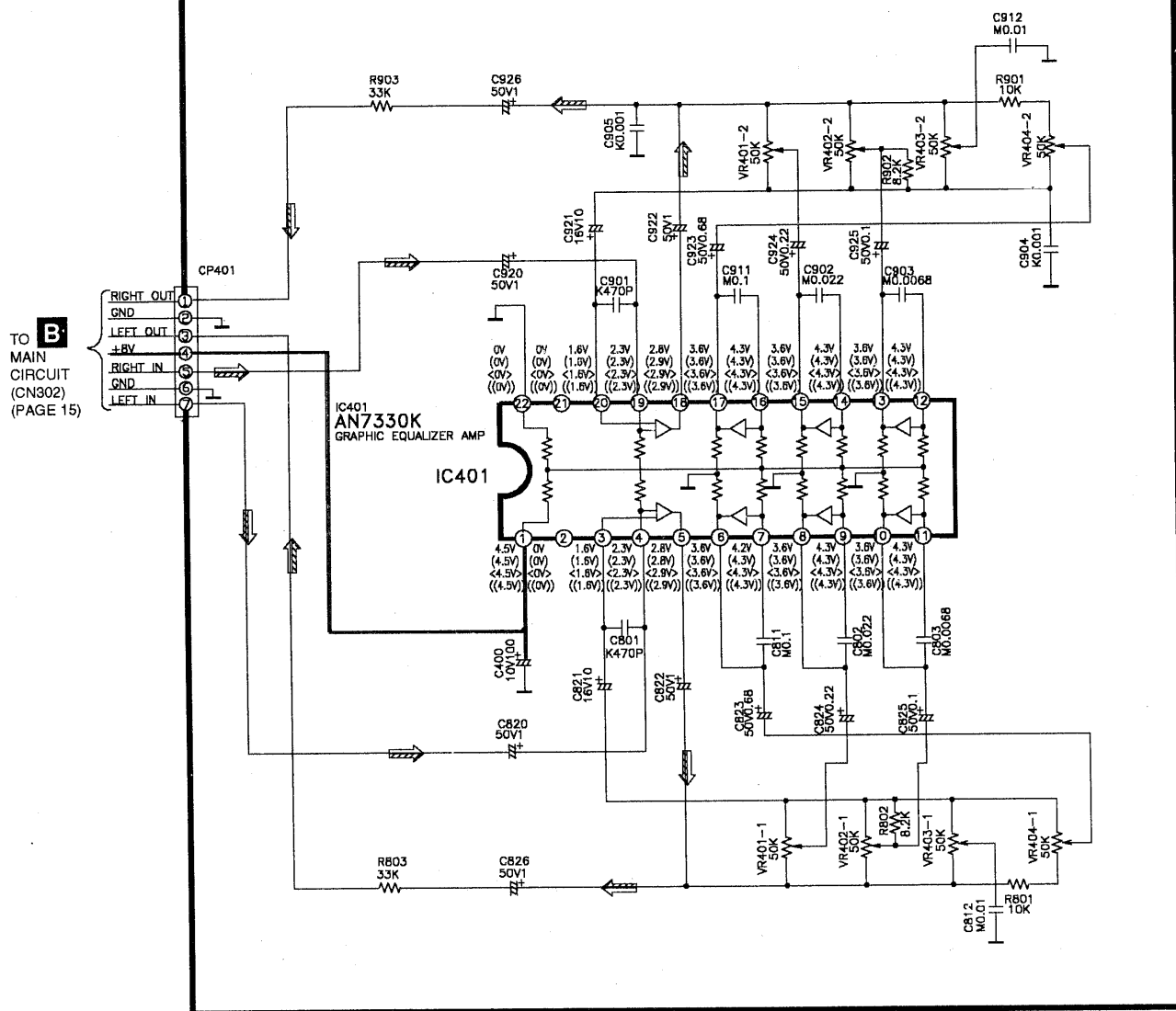
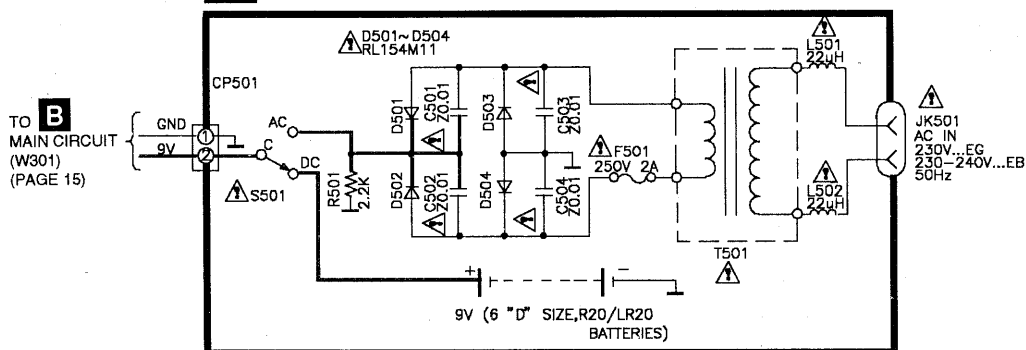
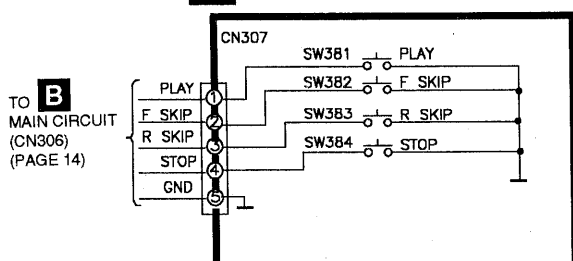
M702
SPINDLE
MOTORM701
TRAVERSE
MOTOR

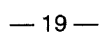


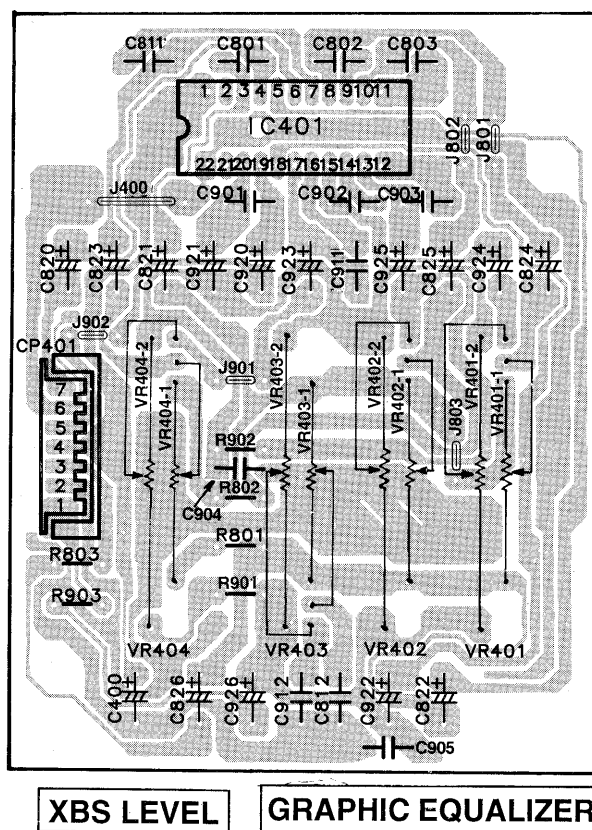
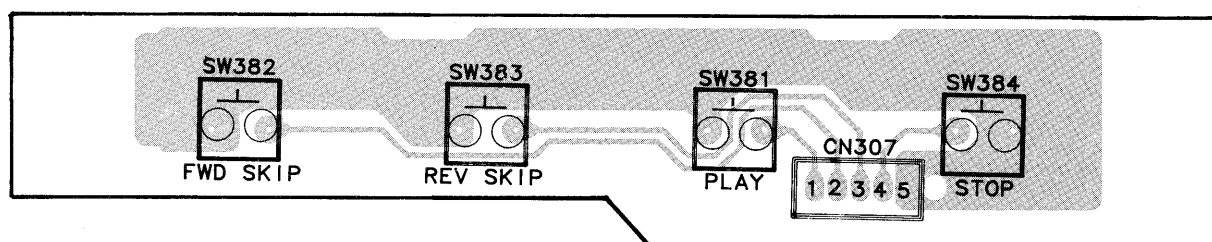
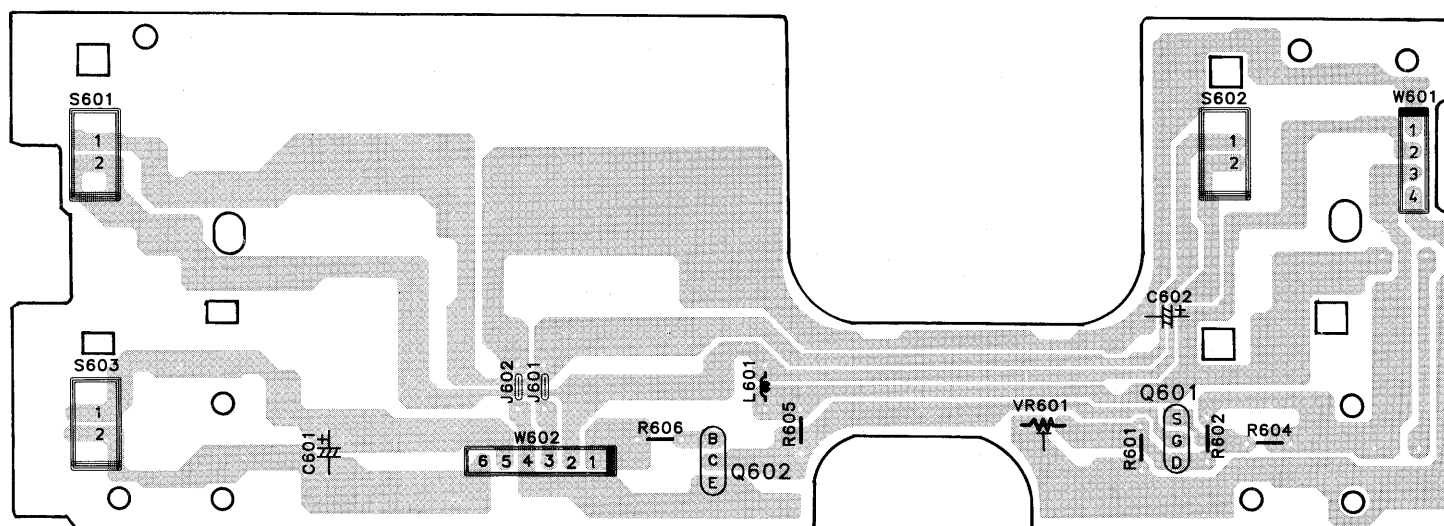
TO **B** MAIN CIRCUIT
(CN305)
(PAGE 14)



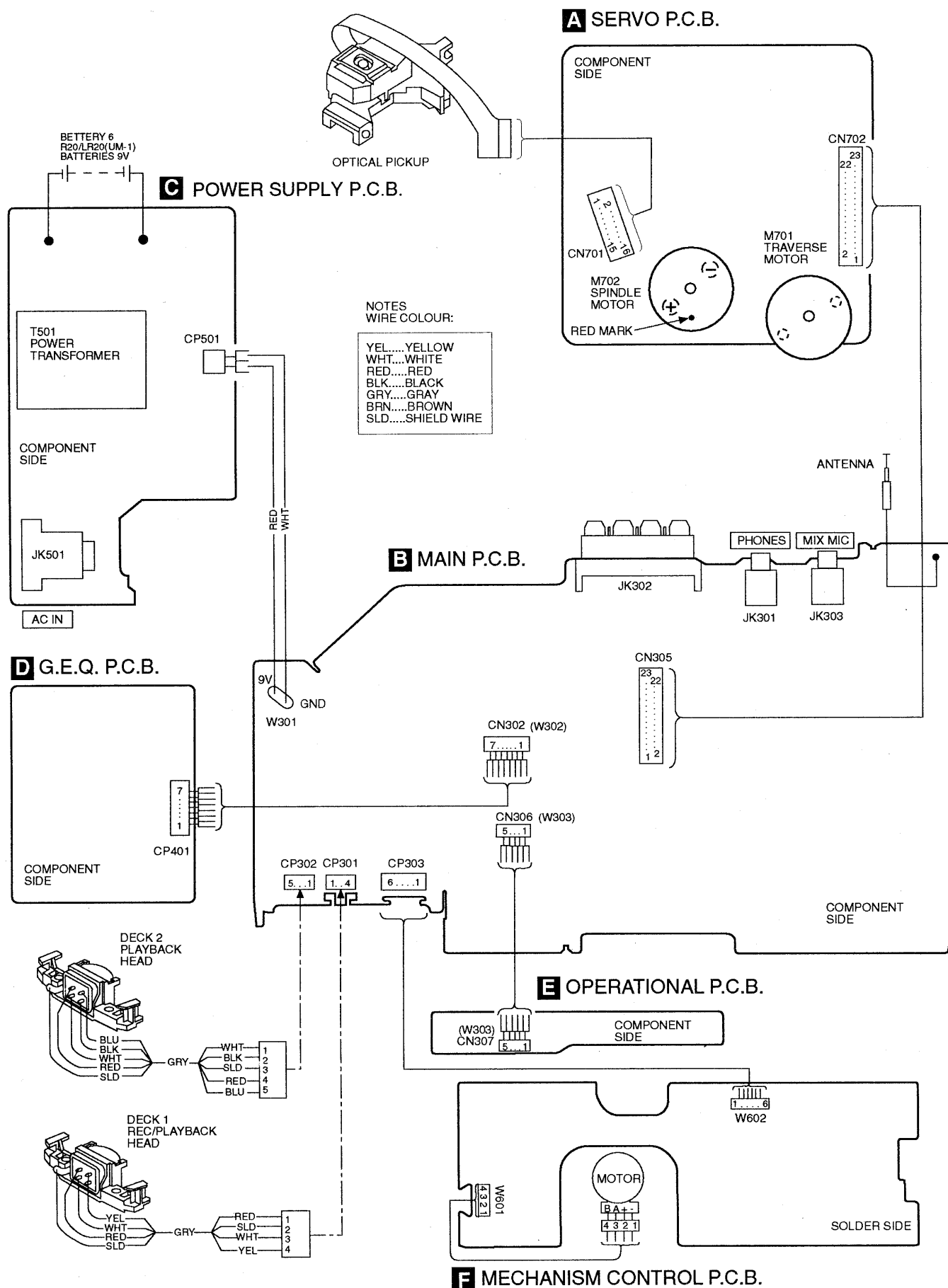


D G.E.Q. CIRCUIT**C** POWER SUPPLY CIRCUIT**E** OPERATIONAL CIRCUIT



D G.E.Q. P.C.B. (REPX0099)**E OPERATIONAL P.C.B. (REPX0098D) ...EG
(REPX0098G) ...EB****F MECHANISM CONTROL P.C.B. (REPX0062B)**

Wire Connection Diagram



■ Measurements And Adjustments

■ TUNER SECTION

• ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT	
<ul style="list-style-type: none">• Set power source voltage to 9 V DC.• Set volume control to maximum• Set band switch to AM(LW,MW) or FM• Set selector switch to RADIO	<ul style="list-style-type: none">• Set XBS control to minimum• Output of signal generator should be no higher than necessary to obtain an output reading.
<p>Note : LW-RF alignment should be performed before MW-RF alignment. No FM STEREO alignment is required due to Tuner IC (BA1442A) is used.</p>	

• AM-IF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT (Shown IN Fig. 1)	REMARKS
CONNECTIONS	FREQUENCY				
Fashion a loop of several turns of wire and radiate a signal into the loop ant. of receiver.	459 kHz 30 % Mod. at 400 Hz	Point of non-interference.(on/about 600kHz)	Headphone Jack (32Ω) (Fabricate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.)	T2(AM IFT)	Adjust for maximum output.

• MW-RF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT (Shown in Fig. 1)	REMARKS
CONNECTIONS	FREQUENCY				
"	511 kHz (EB) 514 ± 3 kHz (EG)	Tuning capacitor fully closed.	"	L8 (MW OSC Coil)	Adjust for maximum output.
"	1650 kHz (EB) 1639 ± 5 kHz (EG)	Tuning capacitor fully opened.	"	CT6 (MW OSC Trimmer)	Adjust for maximum output.
"	550 kHz	Tune to signal	"	[*1] L3-1 (MW ANT Coil)	Adjust for maximum output. Adjust L3-1 by moving coil bobbin along ferrite core.
"	1500 kHz	"	"	CT1-4 (MW ANT Trimmer)	Adjust for maximum output.

[*1] Fix antenna coil with wax after completing alignment.

• LW-RF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL SETTING	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT (Shown in Fig. 1)	REMARKS
CONNECTIONS	FREQUENCY				
"	136 kHz (EB) 136 ± 3 kHz (EG)	Tuning capacitor fully closed.	"	L9 (LW OSC Coil)	Adjust for maximum output.
"	297 kHz (EB) 297 ± 5 kHz (EG)	Tuning capacitor fully opened.	"	CT1-3 (LW OSC Trimmer)	Adjust for maximum output.
"	145 kHz	Tune to signal	"	[*1] L3-2 (LW ANT Coil)	Adjust for maximum output. Adjust L3-2 by moving coil bobbin along ferrite core.
"	285 kHz	"	"	CT5 (LW ANT Trimmer)	Adjust for maximum output.

[*1] Fix antenna coil with wax after completing alignment.

• FM-IF ALIGNMENT

Connect to test point TP1 through ceramic capacitor. Negative side to test point TP2 .	10.7 MHz (Sweep)	Point of non-interference.(on/about 90 MHz)	Connect vert. amp. of scope to test point TP3 . Negative side to test point TP4 .	T1(FM 1st)	Waveform is shown in Fig. 3
"	"	"	"	T3(FM 2nd)	Waveform is shown in Fig. 4

• FM-RF ALIGNMENT

Connect to test point TP1 through FM dummy antenna. Negative side to test point TP2 .	86.2MHz (EB) 87.35MHz (EG) ± 50 kHz	Variable capacitor fully closed.	Headphone Jack (32Ω) (Fabricate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.)	L2 (FM OSC Coil)	[*2] Adjust for maximum output.
	109.2MHz (EB) 108.3MHz (EG) ± 70 kHz	Variable capacitor fully opened.	"	CT1-1 (FM OSC Trimmer)	"
	106MHz	Tune to signal	"	CT1-2 (FM ANT Trimmer)	"

[*2] Three output response will be present; proper tuning is the center frequency.

■ CASSETTE DECK SECTION

• ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Note : Azimuth Head Alignment is not required due to Aztec Head is used in the cassette mechanism.

• TAPE SPEED ALIGNMENT (DECK 1, 2)

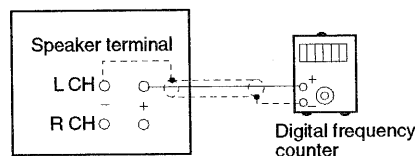
Normal speed (Standard Value : 3000 ± 50 Hz ... Deck 2)
(Standard Value : Deck 2 ± 50 Hz ... Deck 1)
High speed (Standard Value : 5100 Hz ~)

1. Test equipment connection is shown in figure.
2. Set the unit to "TAPE" position.
3. Playback the middle part of the test tape (QZZCWAT) in deck 2.
4. Adjust VR601 for the output value shown below.
5. Playback the middle part of the test tape (QZZCWAT) in deck 1.
6. Repeat step 4.
5. Set the unit to "HIGH" speed position.
6. Place the cassette deck into the REC mode (DECK 1) and the PLAY mode (DECK 2).
7. Repeat step 4.

Note :

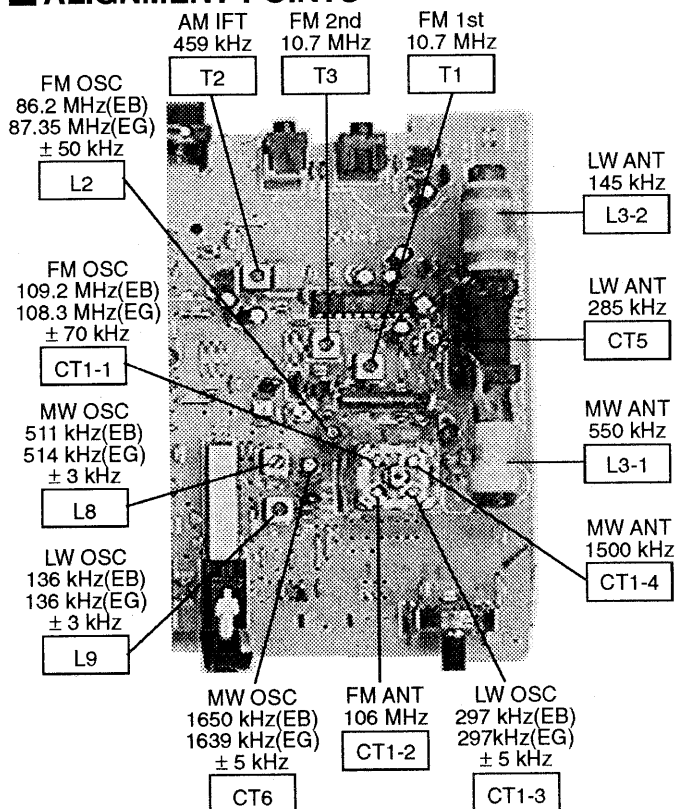
The normal speed adjustment must be done before the high speed adjustment.

UNIT



Adjustment Target : 3000 ± 90 Hz ... Normal speed (Deck 2)
Adjustment Target : Deck 2 ± 50 Hz ... Normal speed (Deck 1)
Adjustment Target : 5100 Hz ~ ... High speed

■ ALIGNMENT POINTS



To Headphone

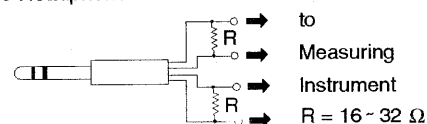


Fig. 2

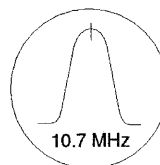
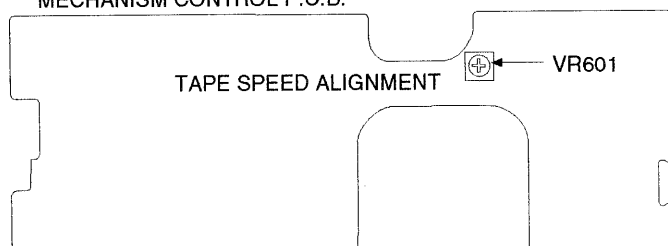


Fig. 3

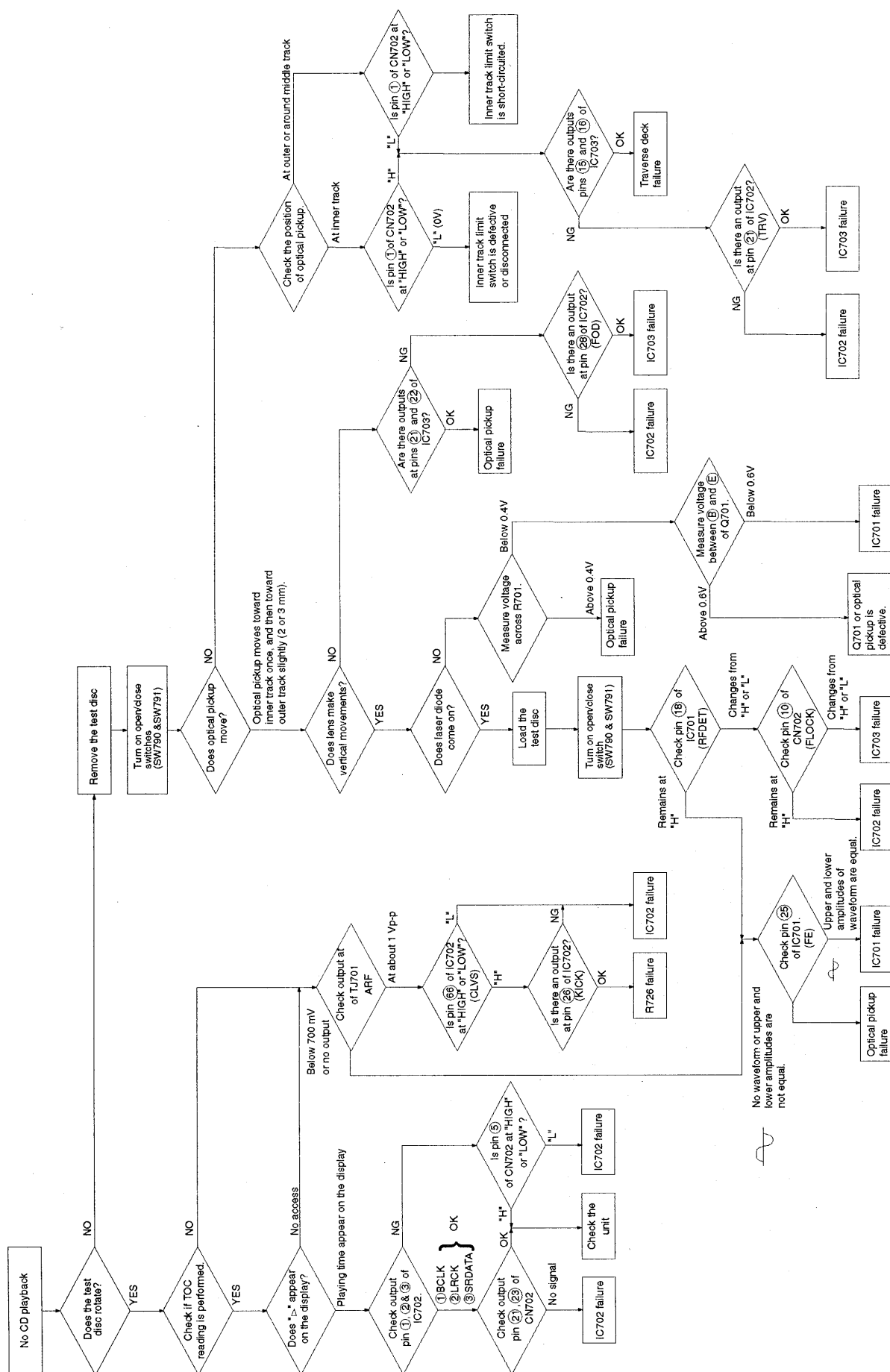


Fig. 4

MECHANISM CONTROL P.C.B.



Troubleshooting Guide



Mechanism Parts Location (RAA0920)

1

2

3

4

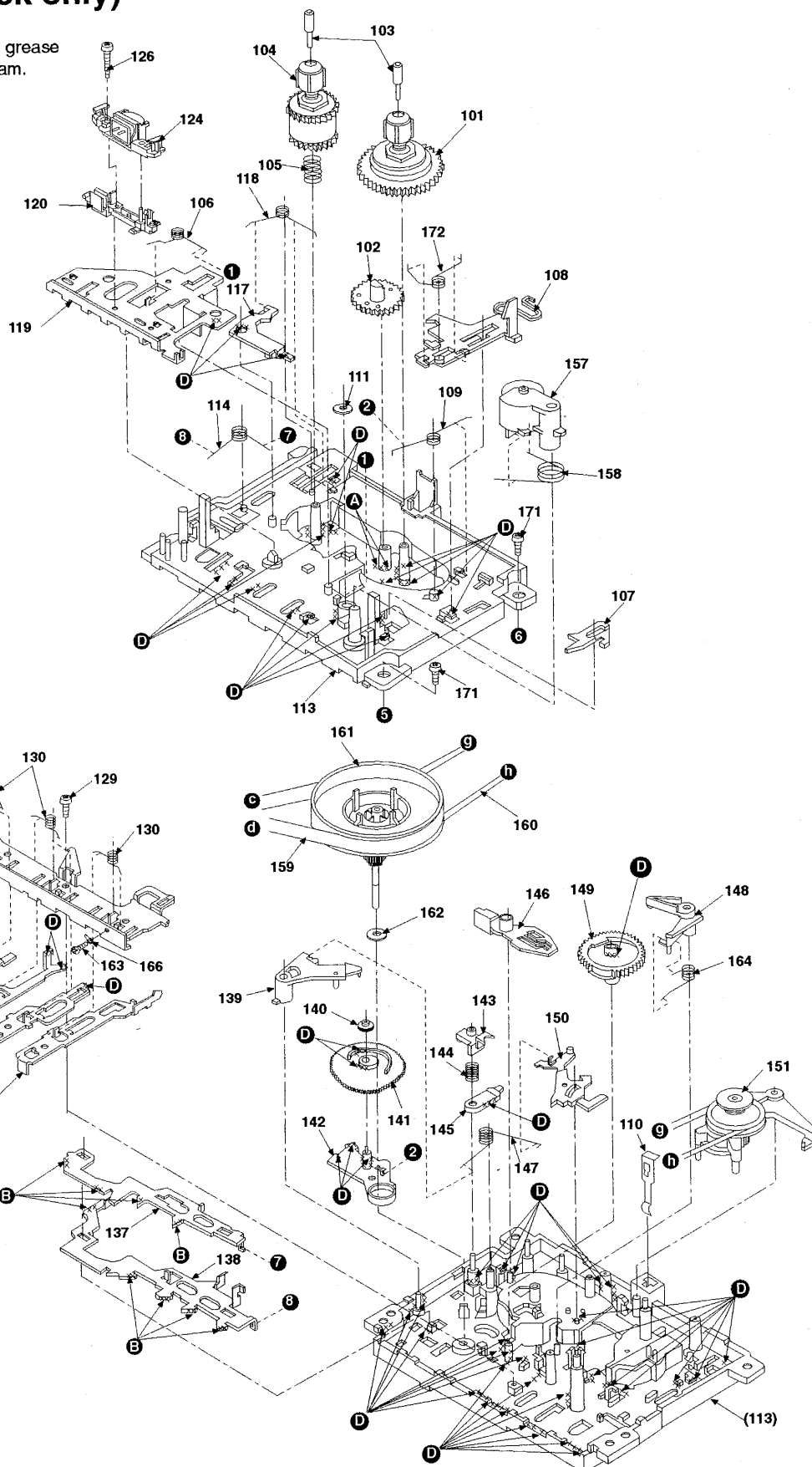
DECK 2 (For playback only)

Note :

When changing mechanism parts, apply grease to areas marked "XX" as shown in diagram.

SPECIFICATION

Playback torque	25~55 g.cm
Fast forward torque	65~130 g.cm
Rewind torque	65~130 g.cm



Ref. No.	Part No.
A	SZZ0L25
B	SZZ0L06
D	SZZ0L30

1

2

3

4

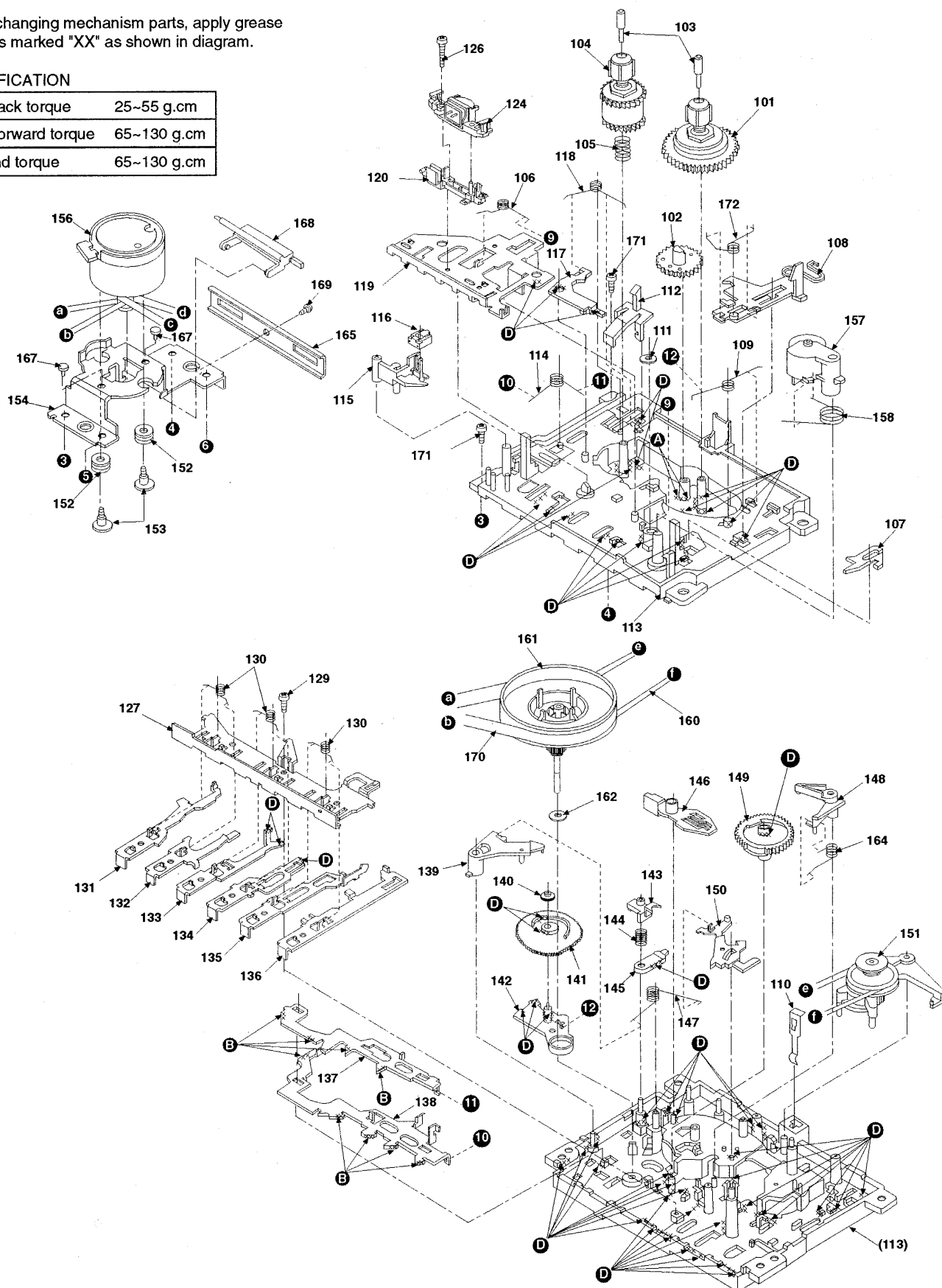
DECK 1 (For recording and playback)

Note :

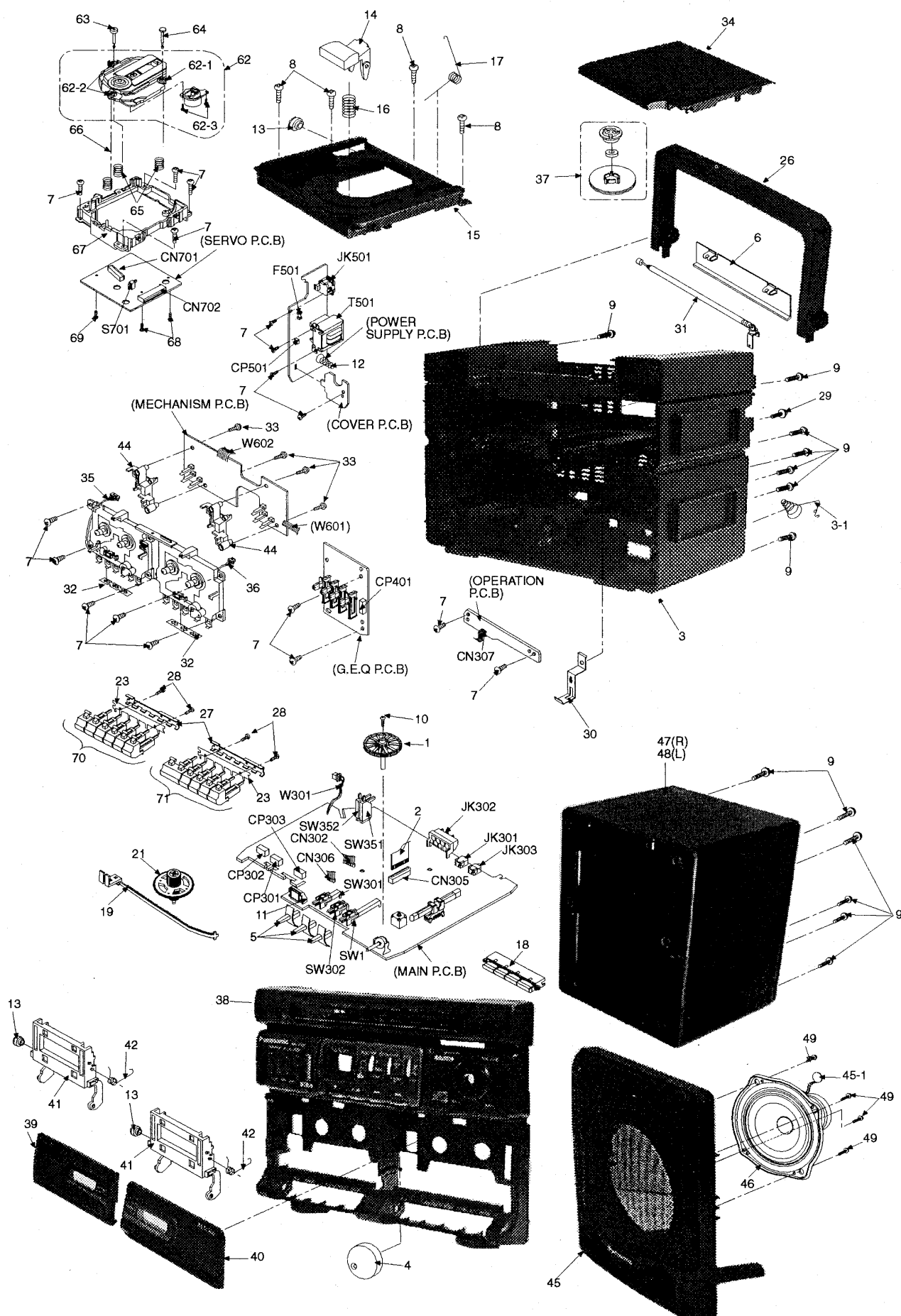
When changing mechanism parts, apply grease to areas marked "XX" as shown in diagram.

SPECIFICATION

Playback torque	25~55 g.cm
Fast forward torque	65~130 g.cm
Rewind torque	65~130 g.cm



■ Cabinet Parts Location




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		126	XTN2+12F	AZTEC HEAD SCREW	[M]	150	RML0073-1	PROTECT LEVER	[M]
				127	RMA0109	BACK PLATE	[M]	151	RXP0014	RF CLUTCH ASSY	[M]
101	RXR0004	TAKE UP REEL ASSY	[M]	129	XTN2+6J	BACK PLATE SCREW		152	RMG0102	MOTOR RUB. CUSH.	[M]
102	RDG0059	FF RELAY GEAR	[M]	130	RMB0043-1	ROD OPERATION SPRING	[M]	153	RHD26002	SCREW	
103	RMS0055-1	REEL SHAFT	[M]	131	RMM0027	PAUSE ROD	[M]	154	RMA0122	MOTOR BRACKET	[M]
104	RXR0005	SUPPLY REEL ASSY	[M]	132	RMM0026	STOP ROD	[M]	156	RFKXPCT810PK	MOTOR ASSY	[M]
105	RMB0125	BACK TENSION SPRING	[M]	133	RMM0025	FF ROD	[M]	157	RXP0015	PINCH ROLLER ASSY	[M]
106	RMB0047	HEAD PANEL SPRING	[M]	134	RMM0024	REW ROD	[M]	158	RMB0049	PINCH ROLLER SPRING	[M]
107	RML0076	EJECT SELECTION LEVE	[M]	135	RMM0023	PLAY ROD	[M]	159	RDV0007	MAIN BELT	[M]
108	RMM0029	EJECT SLIDE LEVER	[M]	136	RMM0028	REC ROD	[M]	160	RDV0006-1	RF BELT	[M]
109	RMB0048-1	IDLER LEVER SPRING	[M]	137	RML0078	FUNCTION PLATE	[M]	161	RXF0012	FLYWHEEL ASSY	[M]
110	RMC0061	PACK SPRING	[M]	138	RML0077-1	LOCK PLATE	[M]	162	RHW21008	WASHER	[M]
111	RHW16009	CAPSTAN WASHER	[M]	139	RML0072	RELEASE LEVER	[M]	163	XTN2+4F	EARTH LUG SCREW	
112	RML0081-1	RECORD SAFETY LEVER	[M]	140	RMR0227	IDLER GEAR BUSH	[M]	164	RMB0044	TRIGGER SPRING	[M]
113	RFU189ZA	MECHA CHASSIS ASSY	[M]	141	RDG0057-1	IDLER GEAR	[M]	165	RMA0121	ANGLE	[M]
114	RMB0046-1	LOCK PLATE SPRING	[M]	142	RML0074	IDLER LEVER	[M]	166	RJR0033	EARTH LUG	[M]
115	RML0080	ERASE HEAD ARM	[M]	143	RMR0211-1	PAUSE BUSH	[M]	167	RMG0131	SUPPORT RUBBER CUSHI	[M]
116	RBR2CY009	ERASE HEAD	[M]	144	RMB0053	PAUSE LEVER SPRING	[M]	168	RML0085	PAUSE RELEASE LEVER	[M]
117	RML0116	BRAKE ARM	[M]	145	RML0082	PAUSE LEVER	[M]	169	XTN26+3F	SCREW	[M]
118	RMB0109-1	BRAKE SRING	[M]	146	RML0071-1	SWAY LEVER	[M]	170	RDV0009	MAIN BELT B	[M]
119	RMA0696	AZTEC HEAD PANEL	[M]	147	RMB0045-1	AS SPRING	[M]	171	XTW26+6L	SCREW	
120	RMQ0384	HEAD BASE B	[M]	148	RML0075	TRIGGER LEVER	[M]	172	RME0098-2	SPRING	[M]
124	RBR4CY016-M	AZTEC HEAD	[M]	149	RDK0005	CAM GEAR	[M]				

Replacement Parts List

Notes: * Important safety notice:

Components identified by  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.

* [M] Indicates in the Remarks columns indicates parts supplied by MESA.

* 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		19	RFKNXDS520GC	POINTER ASS'Y	[M]	44	RMR0368	PCB CHASSIS	[M]
				21	RGXX0012-H	TUNING KNOB	[M]	45	RFKAXDS520GC	SPK. FRONT CAB ASS'Y	[M]
1	RDGX0008-W	VARICON GEAR	[M]	22	SHS3276	LEG FELT	[M]	45-1	EFBSRXDS520	TWEETER	[M]
2	REEX0022	CD FFC (WIRE)	[M]	23	RHRX0008	MECHA SEAT	[M]	46	RAS12P01-H	WOOFER	[M]
3	RFKHXT530EB	REAR CAB ASS'Y	[M](EB)	26	RKHXX004-K	HANDLE	[M]	47	RKPX0027-K	SPEAKER REAR CAB (R)	[M]
3	RFKHXT530EG	REAR CAB ASS'Y	[M](EG)	27	RMAX0006	ANGLE BAR	[M]	48	RKPX0028-K	SPEAKER REAR CAB (L)	[M]
3-1	RJC91006	BATT. TERMINAL	[M]	28	XTV3+8G	MECHA BUTTON SCREW		49	XTW3+10Q	WOOFER SCREW	
4	RGWX0021-K	VOLUME KNOB	[M]	29	XYN3+8FY	R.ANTENNA SCREW		50	RGZX0020A-K	MECHA BUTT. BLOCK A	[M]
5	RGWX0022-K	SELECTOR KNOB	[M]	30	RMAX0019	ANTENNA SPRING	[M]	51	RGZX0020B-K	MECHA BUTT. BLOCK B	[M]
6	RKK2SZA-0	BATTERY COVER	[M]	31	XEARR210C-Y	R.ANTENNA	[M]	62	RAE0150Z	TRAVERSE UNIT	
7	XTV3+12G	MOUNTING SCREW		32	RMXX0004	SPACER	[M]	62-1	SHGD112	FLOATING RUBBER (A)	
8	XTV3+12GFZ	TOP CAB SCREW		33	XTN2+14GF	PCB SCREW	[M]	62-2	SHGD113-1	FLOATING RUBBER (B)	
9	XTV3+20G	CASING SCREW		34	RGKX0013-K	CD LID	[M]	62-3	SNSD38	SCREW	
10	XYN26+C6	VARICON GEAR SCREW		35	REXX0118-1	TAPE HEAD WIRE 1	[M]	63	RMS0350	FIXED PIN B	
11	RMNX0009	LCD HOLDER	[M]	36	REXX0123	TAPE HEAD WIRE 2	[M]	64	RMS0123-1	FIXED PIN A	
12	RJC511ZBS	BATTERY SPRING	[M]	37	RFKNRXDS15PA	CLAMPER ASS'Y	[M]	65	RME0109	FLOATING SPRING A	
13	RDG0183-L	DAMPER GEAR	[M]	38	RFKXGXT530EB	FRONT CAB ASS'Y	[M](EB)	66	RME0142	FLOATING SPRING B	
14	RGUX0121-K	CD EJECT BUTTON	[M]	38	RFKXGXT530EG	FRONT CAB ASS'Y	[M](EG)	67	RMR0698-K	TRAVERSE CHASSIS	
15	RKQX0005-K	TOP CAB	[M]	39	RFKLXT530PA	CASS. LID ASS'Y(L)	[M]	68	XTV2+6G	SCREW	
16	RMB0244	CD EJECT BUTT. SPRING	[M]	40	RFKLXT530PB	CASS. LID ASS'Y(R)	[M]	69	XTN2+6G	SCREW	
17	RMEX0003-1	CD OPEN SPRING	[M]	41	RKFX0044-K	CASS. HOLDER	[M]				
18	RGUX0120-H	CD FUNCTION BUTTON	[M]	42	RMEX0002	EJECT SPRING	[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
		INTEGRATED CIRCUITS		D319	RVD1SS133TA	DIODE		L9	RL02B108-M	MW OSC COIL	
				D320	RVD1SS133TA	DIODE		L301	RL09B17-T	AC BIAS COIL	
IC1	AN7205	IC, FM FRONT END		D321	RVD1SS133TA	DIODE		L501	RLQZB220KT-D	COIL	△
IC2	BA1442A	IC, MPX / IF	[M]	D322	RVD1SS133TA	DIODE		L502	RLQZB220KT-D	COIL	△
IC301	BA7755A	IC, ANALOG SW		D501	RL154M11	DIODE	△	L601	RLQZB470KT-D	COIL	
IC302	AN7317	IC, REC/PB PRE-AMP	[M]	D502	RL154M11	DIODE	△	T1	RLI4B153-M	FM IFT	
IC303	UPD753204016	IC, MICRO-P	[M]	D503	RL154M11	DIODE	△	T2	RLI2B458-M	AML	
IC304	PST600DTA	IC, RESET		D504	RL154M11	DIODE	△	T3	RLI4B153-M	FM IFT	
IC305	TA8227P	IC, POWER AMP	[M]△			VARIABLE RESISTORS		T501	RTP1K1B005AX	POWER TRANSFORMER	[M]△
IC401	AN7330K	IC, GRAPHIC EQ								COMPONENT COMBINATION	
		TRANSISTORS									
				VR351	EWCU1AF20B54	VR, VOLUME	[M]				
Q1	2SC829BTA	TRANSISTOR		VR401	EWAJQDV06G54	VR, 330HZ	[M]	Z301	RSL5145-L	LCD DISPLAY	[M]
Q101	2SJ40CDTA	TRANSISTOR		VR402	EWAJQDV06G54	VR, 1KHZ	[M]			CERAMIC FILTERS	
Q102	2SJ40CDTA	TRANSISTOR		VR403	EWAJQDV06G54	VR, 10KHZ	[M]				
Q103	2SC2785FTA	TRANSISTOR		VR404	EWAJSDV06G54	VR, XBASS	[M]	CF1	RVF107WDZT	CERAMIC FILTER	
Q104	2SC2785FTA	TRANSISTOR		VR601	EVNDXAA00B24	VR, MOTOR SPEED		CF2	RVFSFU459B	AM CF	
Q105	2SC2785FTA	TRANSISTOR				VARIABLE CAPACITOR				OSCILLATORS	
Q106	2SC2785FTA	TRANSISTOR									
Q201	2SJ40CDTA	TRANSISTOR		VC1	RCV4RC2RA-A	POLY VARICON	[M]				
Q202	2SJ40CDTA	TRANSISTOR		CT5	ECRLA030E53R	TRIMMER CAPACITOR		X301	EF0EC4194T4	4.19MHZ RESONATOR	
Q203	2SC2785FTA	TRANSISTOR		CT6	ECRLA020E53R	TRIMMER CAPACITOR				FUSES	
Q204	2SC2785FTA	TRANSISTOR		CT9	ECRLA010A53R	TRIMMER CAPACITOR					
Q205	2SC2785FTA	TRANSISTOR		CT9	ECCR1H240KC5	CERAMIC CAPACITOR	[M](EG)	F501	XBA2C20TB0L	FUSE	[M]△
Q206	2SC2785FTA	TRANSISTOR				SWITCHES				FUSE HOLDERS	
Q301	BA1A4MTA	TRANSISTOR	[M]								
Q302	BA1A4MTA	TRANSISTOR	[M]	S501	RJJ1SE01-1H	SW, AC IN (JK501)	△	FC1	RJR0169T	FUSE CLIP	[M]
Q303	2SC1684RTA	TRANSISTOR		S601	RSH1A013-2I	SW, MOTOR 1	[M]	FC2	RJR0169T	FUSE CLIP	[M]
Q304	BA1A4MTA	TRANSISTOR	[M]	S602	RSH1A013-2I	SW, MOTOR 2	[M]			JACKS	
Q305	BA1A4MTA	TRANSISTOR	[M]	S603	RSH1A004-1	SW, REC	[M]				
Q306	2SC2001LTA	TRANSISTOR	[M]△	SW1	RST3H001-H	SW, BAND	[M]				
Q307	2SB1566E	TRANSISTOR	[M]△	SW301	RST3D28ZA-H	SW, FUNCTION	[M]				
Q308	2SC2785FTA	TRANSISTOR	△	SW302	RST3B35ZA-H	SW, B.P.	[M]	JK301	RJJ37TK01-1C	JK, HEADPHONE	
Q309	BN1A4MTA	TRANSISTOR	[M]△	SW351	RSH1A012-U	SW, LD		JK302	RJF1098ZA-H	JK, SPEAKER	[M]
Q310	BA1A4MTA	TRANSISTOR	[M]△	SW352	RSH1A012-U	SW, CD OPEN		JK303	RJJ1D25ZA-C	JK, MIC	
Q311	2SC2001LTA	TRANSISTOR	[M]△	SW381	EVQ21405R	SW, PLAY/PAUSE		JK501	RJJ1SE01-1H	JK, AC IN	△
Q313	2SC1684RTA	TRANSISTOR		SW382	EVQ21405R	SW, FWD/F. SKIP				WIRES	
Q360	BA1A4MTA	TRANSISTOR	[M]	SW383	EVQ21405R	SW, REV/R. SKIP					
Q601	2SK301QTA	TRANSISTOR	[M]	SW384	EVQ21405R	SW, STOP		W301	REXX0127	MAIN TO POWER (2P)	[M]
Q602	2SC1684STA	TRANSISTOR				CONNECTORS		W602	REXX0122	MECHA WIRE (6P)	[M]
		DIODES								<SERVO>	
D1	RVD1SS133TA	DIODE		CN302	RMR0316	7P WIRE HOLDER				INTEGRATED CIRCUITS	
D2	RVD1SS133TA	DIODE		CN305	RJS1A6823	23P FPC CONNECTOR					
D301	RVD1SS133TA	DIODE		CN306	RMR0314	5P WIRE HOLDER	[M]	IC701	AN8835SBE1	IC, SERVO AMP.	
D302	RVD1SS133TA	DIODE		CN307	RMR0314	5P WIRE HOLDER	[M]	IC702	MN662741RPA	IC, DIGITAL LSI	
D303	RVD1SS133TA	DIODE		CP301	RJP4G18ZA	4P PLUG IN		IC703	AN8389SE1	IC, COIL/MOTOR DRIVE	
D305	RVD1SS133TA	DIODE		CP302	RJP5G18ZA	5P PLUG IN				TRANSISTOR	
D308	RVD1SS133TA	DIODE		CP303	RJP6G4YA	6P PLUG IN					
D309	RVD1SS133TA	DIODE		CP401	RJS1A5207	7P CONNECTOR					
D310	RVD1SS133TA	DIODE		CP501	RJP2G4YA	2P PLUG IN JACK				SWITCH	
D311	MTZJ5R6BTA	DIODE	△			COILS & TRANSFORMERS		Q701	2SB709S	TRANSISTOR	
D312	RVD1SS133TA	DIODE									
D313	RVD1SS133TA	DIODE									
D314	RVD1SS133TA	DIODE		L1	RLQY30S1W	FILTER COIL	[M]				
D315	MTZJ7R5CTA	DIODE	△	L2	RLD4Y53W	FM OSC COIL	[M]				
D316	MTZJ6R2BTA	DIODE	△	L3	RLV6C009-0	FERRITE ANT	[M]	S701	RSM0006-P	SW, RESET	
D317	RVD1SS133TA	DIODE		L8	RL01B13-M	LW OSC COIL					

Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
		CONNECTORS									
CN701	RJU035T016-1	16 PIN FFC CONNECTOR		RJ702	ERJ8GEY0R00A	0 1/8W		RJ724	ERJ8GEY0R00A	0 1/8W	
CN702	RJS1A6723-1Q	23 PIN FFC CONNECTOR		RJ703	ERJ8GEY0R00A	0 1/8W		RJ725	ERJ8GEY0R00A	0 1/8W	
		OSCILLATOR		RJ704	ERJ8GEY0R00A	0 1/8W		RJ726	ERJ8GEY0R00A	0 1/8W	
				RJ707	ERJ8GEY0R00A	0 1/8W		RJ727	ERJ8GEY0R00A	0 1/8W	
				RJ709	ERJ8GEY0R00A	0 1/8W		RJ728	ERJ8GEY0R00A	0 1/8W	
		CHIP JUMPERS		RJ714	ERJ8GEY0R00A	0 1/8W		RJ729	ERJ8GEY0R00A	0 1/8W	
				RJ715	ERJ8GEY0R00A	0 1/8W		RJ730	ERJ8GEY0R00A	0 1/8W	
X701	RSXZ16M9M01T	CERAMIC OSC		RJ716	ERJ8GEY0R00A	0 1/8W				TEST JUMPERS	
				RJ717	ERJ8GEY0R00A	0 1/8W					
				RJ721	ERJ8GEY0R00A	0 1/8W		TJ701	EYF8CU	TEST JUMPER	
				RJ722	ERJ8GEY0R00A	0 1/8W		TJ702	EYF8CU	TEST JUMPER	
RJ701	ERJ8GEY0R00A	0 1/8W		RJ723	ERJ8GEY0R00A	0 1/8W					

Resistors & Capacitors

Notes :

- * Capacitor values are in microfarads (μF) unless specified otherwise, P=Pico-farads (pF), F=Farads.
- * Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM).
- * Bracketed indications in Ref. No. columns specify the area (Refer to the first page for area).
- Parts without these indications can be used for all areas.
- * [M] Indicates in the values & remarks column indicates parts supplied by MESA

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									
R1	ERDS2TJ330T	33 1/4W	R209	ERDS2TJ682T	6.8K 1/4W	R335	ERDS2TJ4R7T	4.7 1/4W	R712	ERJ6GEYJ221V	220 1/10W
R2	ERDS2TJ334T	330K 1/4W	R210	ERDS2TJ223T	22K 1/4W	R336	ERDS2TJ103T	10K 1/4W	R717	ERJ6GEYJ102V	1K 1/10W
R3	ERDS2TJ471T	470 1/4W	R211	ERDS2TJ273T	27K 1/4W	R337	ERDS2TJ680T	68 1/4W	R718	ERJ6GEYJ102V	1K 1/10W
R4	ERDS2TJ330T	33 1/4W	R212	ERDS2TJ472T	4.7K 1/4W	R338	ERDS2TJ221T	220 1/4W	R719	ERJ6GEYJ102V	1K 1/10W
R5	ERDS2TJ101T	100 1/4W	R213	ERDS2TJ822T	8.2K 1/4W	R339	ERDS2TJ101T	100 1/4W	R720	ERJ6GEYJ102V	1K 1/10W
R6	ERDS2TJ8R2T	8.2 1/4W	R214	ERDS2TJ223T	22K 1/4W	R340	ERDS2TJ821T	820 1/4W	R721	ERJ6GEYJ101V	100 1/10W
R7	ERDS2TJ820T	82 1/4W	R222	ERDS2TJ121T	120 1/4W	R341	ERDS2TJ222T	2.2K 1/4W	R722	ERJ6GEYJ563V	56K 1/10W
R8	ERDS2TJ680T	68 1/4W	R223	ERDS2TJ101T	100 1/4W	R342	ERDS2TJ473T	47K 1/4W	R723	ERJ6GEYJ182V	1.8K 1/10W
R10	ERDS2TJ472T	4.7K 1/4W	R225	ERDS2TJ223T	22K 1/4W	R343	ERDS2TJ102T	1K 1/4W	R724	ERJ6GEYJ333V	33K 1/10W
R11	ERDS2TJ221T	220 1/4W	R280	ERDS2TJ223T	22K 1/4W	R344	ERDS2TJ473T	47K 1/4W	R725	ERJ6GEYJ472V	4.7K 1/10W
R12	ERDS2TJ332T	3.3K 1/4W	R302	ERDS2TJ563T	56K 1/4W	R345	ERDS2TJ102T	1K 1/4W	R726	ERJ6GEYJ473V	47K 1/10W
R14	ERDS2TJ103T	10K 1/4W	R303	ERDS2TJ473T	47K 1/4W	R346	ERDS2TJ680T	68 1/4W	R727	ERJ6GEYJ822V	8.2K 1/10W
R101	ERDS2TJ183T	18K 1/4W	R307	ERDS2TJ103T	10K 1/4W	R347	ERDS2TJ471T	470 1/4W	R728	ERJ6GEYJ103V	10K 1/10W
R103	ERDS2TJ562T	5.6K 1/4W	R308	ERDS2TJ104T	100K 1/4W	R348	ERDS2TJ332T	3.3K 1/4W	R731	ERJ6GEYJ822V	8.2K 1/10W
R104	ERDS2TJ472T	4.7K 1/4W	R309	ERDS2TJ104T	100K 1/4W	R349	ERDS2TJ5R6T	5.6 1/4W	R734	ERJ6GEYJ101V	100 1/10W
R105	ERDS2TJ390T	39 1/4W	R310	ERDS2TJ104T	100K 1/4W	R350	ERDS2TJ103T	10K 1/4W	R735	ERJ6GEYJ101V	100 1/10W
R106	ERDS2TJ102T	1K 1/4W	R311	ERDS2TJ104T	100K 1/4W	R351	ERD2FCVJ4R7T	4.7 1/4W	R736	ERJ6GEYJ101V	100 1/10W
R107	ERDS2TJ393T	39K 1/4W	R312	ERDS2TJ183T	18K 1/4W	R352	ERDS2TJ222T	2.2K 1/4W	R738	ERJ6GEYJ223V	22K 1/10W
R108	ERDS2TJ393T	39K 1/4W	R313	ERDS2TJ334T	330K 1/4W	R353	ERDS2TJ105T	1M 1/4W	R741	ERJ6GEYJ562V	5.6K 1/10W
R109	ERDS2TJ682T	6.8K 1/4W	R314	ERDS2TJ334T	330K 1/4W	R354	ERDS2TJ470T	47 1/4W	R742	ERJ6GEYJ562V	5.6K 1/10W
R110	ERDS2TJ223T	22K 1/4W	R315	ERDS2TJ221T	220 1/4W	R355	ERDS2TJ332T	3.3K 1/4W	R743	ERJ6GEYJ562V	5.6K 1/10W
R111	ERDS2TJ273T	27K 1/4W	R316	ERDS2TJ472T	4.7K 1/4W	R360	ERDS2TJ472T	4.7K 1/4W	R744	ERJ6GEYJ103V	10K 1/10W
R112	ERDS2TJ472T	4.7K 1/4W	R317	ERDS2TJ222T	2.2K 1/4W	R370	ERDS2TJ473T	47K 1/4W	R745	ERJ6GEYJ155V	1.5M 1/10W
R113	ERDS2TJ822T	8.2K 1/4W	R318	ERDS2TJ103T	10K 1/4W	R501	ERDS2TJ222T	2.2K 1/4W	R748	ERJ6GEYJ182V	1.8K 1/10W
R114	ERDS2TJ223T	22K 1/4W	R320	ERDS2TJ103T	10K 1/4W	R601	ERDS2TJ123T	12K 1/4W	R749	ERJ6GEYJ682V	6.8K 1/10W
R122	ERDS2TJ121T	120 1/4W	R321	ERDS2TJ102T	1K 1/4W	R602	ERDS2TJ273T	27K 1/4W	R750	ERJ6GEYJ473V	47K 1/10W
R123	ERDS2TJ101T	100 1/4W	R322	ERDS2TJ475T	4.7M 1/4W	R604	ERDS2TJ273T	27K 1/4W	R751	ERJ6GEYJ473V	47K 1/10W
R125	ERDS2TJ223T	22K 1/4W	R323	ERDS2TJ391T	390 1/4W	R605	ERDS2TJ105T	1M 1/4W	R752	ERJ8GEYJ220V	22 1/8W
R180	ERDS2TJ223T	22K 1/4W	R324	ERDS2TJ222T	2.2K 1/4W	R606	ERDS2TJ472T	4.7K 1/4W	R770	ERJ6GEYJ155V	1.5M 1/10W
R201	ERDS2TJ183T	18K 1/4W	R325	ERDS2TJ222T	2.2K 1/4W	R701	ERJ6GEYJ4R7V	4.7 1/10W	R771	ERJ6GEYJ155V	1.5M 1/10W
R203	ERDS2TJ562T	5.6K 1/4W	R326	ERDS2TJ101T	100 1/4W	R703	ERJ6GEYJ823	82K 1/10W	R772	ERJ6GEYJ273V	27K 1/10W
R204	ERDS2TJ472T	4.7K 1/4W	R328	ERDS2TJ473T	47K 1/4W	R704	ERJ6GEYJ102V	1K 1/10W	R801	ERDS2TJ103T	10K 1/4W
R205	ERDS2TJ390T	39 1/4W	R329	ERD2FCVJ4R7T	4.7 1/4W	R705	ERJ6GEYJ103V	10K 1/10W	R802	ERDS2TJ822T	8.2K 1/4W
R206	ERDS2TJ102T	1K 1/4W	R330	ERDS2TJ472T	4.7K 1/4W	R706	ERJ6GEYJ102V	1K 1/10W	R803	ERDS2TJ333T	33K 1/4W
R207	ERDS2TJ393T	39K 1/4W	R331	ERDS2TJ472T	4.7K 1/4W	R707	ERJ6GEYJ474V	470K 1/10W	R901	ERDS2TJ103T	10K 1/4W
R208	ERDS2TJ393T	39K 1/4W	R332	ERDS2TJ221T	220 1/4W	R708	ERJ6GEYJ154V	150K 1/10W	R902	ERDS2TJ822T	8.2K 1/4W
			R333	ERDS2TJ563T	56K 1/4W	R709	ERJ6GEYJ683V	68K 1/10W	R903	ERDS2TJ333T	33K 1/4W
			R334	ERDS2TJ222T	2.2K 1/4W	R711	ERJ6GEYJ154V	150K 1/10W			

Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks
		CAPACITORS									
C2	ECBT1H470J5	47P 50V	C201	ECBT1C122MR5	1200P 16V	C400	ECEA1AKA101B	100 10V	C823	ECEA1HKAR68B	0.68 50V
C3	ECBT1H220JC5	22P 50V	C202	ECEA1CU100B	10 16V	C501	ECQV1H104JZ3	0.1 50V	C824	ECEA1HKAR22B	0.22 50V
C4	ECBT1H100J5	10P 50V	C203	ECBT1H102KB5	1000P 50V	C502	ECQV1H104JZ3	0.1 50V	C825	ECEA1HKA0R1B	0.1 50V
C5	ECBT1H102KB5	1000P 50V	C204	ECBT1H101KB5	100P 50V	C503	ECQV1H104JZ3	0.1 50V	C826	ECEA1HKA010B	1 50V
C6	ECBT1H102KB5	1000P 50V	C205	ECFR1C333MR	0.033 16V	C504	ECQV1H104JZ3	0.1 50V	C901	ECBT1H471KB5	470P 50V
C7	ECBT1H477KC5	4.7P 50V	C206	ECEA0JU101B	100 6.3V	C601	ECEA1CKA100B	10 16V	C902	ECBT0J223MS5	0.022 6.3V
C8	ECBT1H220JC5	22P 50V	C207	ECEA1CU100B	10 16V	C602	ECEA1CKA101B	100 16V	C903	ECBT1C682MR5	6800P 16V
C9	ECBT1H102KB5	1000P 50V	C208	ECBT1H101KB5	100P 50V	C701	ECEA0JKA330I	33 6.3V	C904	ECBT1H102KB5	1000P 50V
C10	ECBT1H120JC5	12P 50V	C209	ECBT1H102KB5	1000P 50V	C702	ECUZNE104MBN	0.1 25V	C905	ECBT1H102KB5	1000P 50V
C11	ECBT1H220JC5	22P 50V	C215	ECEA0JU101B	100 6.3V	C703	ECEA0JKA101I	100 6.3V	C911	ECFR1C104MR	0.1 16V
C12	ECFR1C223MR	0.022 16V	C216	ECEA1HU010B	1 50V	C704	ECUZNE104MBN	0.1 25V	C912	ECFR1C103MR	0.01 16V
C13	ECFR1C223MR	0.022 16V	C217	ECEA0JKA470B	47 6.3V	C705	ECUZNE104MBN	0.1 25V	C920	ECEA1HKA010B	1 50V
C14	ECBT1H221KB5	220P 50V	C218	ECQV1H184JZ3	0.18 50V	C706	ECUV1H272KBN	2700P 50V	C921	ECEA1CKA100B	10 16V
C15	ECEA1HKA010B	1 50V	C219	ECEA1AU471B	470 10V	C707	ECUV1E273KBN	0.027 25V	C922	ECEA1HKA010B	1 50V
C16	ECBT1C682MR5	6800P 16V	C220	ECFR1C153MR	0.015 16V	C708	ECUV1H472KBN	4700P 50V	C923	ECEA1HKAR68B	0.68 50V
C17	ECEA1EKA100B	10 25V	C221	ECEA1CU100B	10 16V	C709	ECUV1C473KBN	0.047 16V	C924	ECEA1HKAR22B	0.22 50V
C18	ECEA1CKA470B	47 16V	C222	ECBT1H561KB5	560P 50V	C710	ECUV1H182KBN	1800P 50V	C925	ECEA1HKA0R1B	0.1 50V
C19	ECFR1C223MR	0.022 16V	C223	ECEA1HU010B	1 50V	C711	ECUZNE104MBN	0.1 25V	C926	ECEA1HKA010B	1 50V
C20	ECEA0JKA101B	100 6.3V	C302	ECBT1H102KB5	1000P 50V	C712	ECUZNE104MBN	0.1 25V			
C21	ECBT1H102KB5	1000P 50V	C303	ECEA1CU220B	22 16V	C713	ECUV1C104MBM	0.1 16V			
C22	ECFR1C473MR	0.047 16V	C306	ECBT1H102KB5	1000P 50V	C714	ECEA0JKA101I	100 6.3V			
C23	ECEA1HKAR22B	0.22 50V	C308	ECBT1H102KB5	1000P 50V	C716	ECUV1H561KBN	560P 50V			
C24	ECEA1EKA100B	10 25V	C309	ECBT1H102KB5	1000P 50V	C717	ECUZNE104MBN	0.1 25V			
C25	ECBT1C103MS5	0.01 16V	C310	ECBT1H102KB5	1000P 50V	C718	ECUV1C224KBN	0.22 16V			
C26	ECBT0J223MS5	0.022 6.3V	C311	ECBT1H102KB5	1000P 50V	C721	ECUV1H150JCN	15P 50V			
C27	ECBT1H102KB5	1000P 50V	C312	ECEA1AU470B	47 10V	C722	ECUV1H150JCN	15P 50V			
C28	ECBT1H1R5MC5	1.5P 50V(EB)	C313	ECFR1C473MR	0.047 16V	C723	ECEA1AKA221I	220 10V			
C30	ECBT1H330J5	33P 50V	C314	ECEA1AU220B	22 10V	C724	ECUV1C104MBM	0.1 16V			
C31	ECBT1H477KC5	4.7P 50V	C315	ECEA1AU101B	100 10V	C725	ECUV1H102KBN	1000P 50V			
C32	ECBT1H120JC5	12P 50V	C316	ECEA1CU100B	10 16V	C726	ECUV1H102KBN	1000P 50V			
C33	ECFR1C223MR	0.022 16V	C317	ECBT1C103MS5	0.01 16V	C727	ECEA1HPK010I	1 50V			
C34	ECBT1H200JC5	20P 50V	C318	ECQP2A331JZT	330P 100V	C728	ECEA1HPK010I	1 50V			
C35	ECBT1H220JC5	22P 50V	C319	ECBT1C103MS5	0.01 16V	C730	ECUZNE104MBN	0.1 25V			
C36	ECQP2A221JZT	220P 100V	C320	ECQP2A151JZT	150P 100V	C731	ECEA0JKA221I	220 6.3V			
C37	ECQP1361JZT	360P 100V [M]	C321	ECEA1CU100B	10 16V	C732	ECEA0JKA221I	220 6.3V			
C40	ECBT1C103NS5	0.01 16V	C322	ECEA1HU3R3B	3.3 50V	C733	ECUZNE104MBN	0.1 25V			
C44	ECQP2A151JZT	150P 100V	C323	ECQP2A182JZT	1800P 100V	C734	ECEA1AKA221I	220 10V			
C45	ECEA1HKAR22B	0.22 50V	C324	ECBT1C103MS5	0.01 16V	C735	ECUZNE104MBN	0.1 25V			
C50	ECBT1H221KB5	220P 50V	C325	ECBT1C103MS5	0.01 16V	C736	ECUZNE104MBN	0.1 25V			
C51	ECBT1H101KB5	100P 50V	C326	ECEA1AU101B	100 10V	C737	ECUZNE104MBN	0.1 25V			
C101	ECBT1C122MR5	1200P 16V	C327	ECEA1AU101B	100 10V	C738	ECUV1C154KBN	0.15 16V			
C102	ECEA1CU100B	10 16V	C329	ECBT1C103MS5	0.01 16V	C742	ECUV1E273KBN	0.027 25V			
C103	ECBT1H102KB5	1000P 50V	C330	ECEA1AU221B	220 10V	C743	ECUZNE104MBN	0.1 25V			
C104	ECBT1H101KB5	100P 50V	C332	ECEA1CU100B	10 16V	C744	ECUV1E822KBN	8200P 25V			
C105	ECFR1C333MR	0.033 16V	C335	ECEA1CU101B	100 16V	C745	ECUV1C473MBN	0.047 16V			
C106	ECEA0JU101B	100 6.3V	C336	ECBT1C103MS5	0.01 16V	C747	ECUV1H222KBN	2200P 50V			
C107	ECEA1CU100B	10 16V	C337	ECEA1AU101B	100 10V	C748	ECUV1H471KBM	470P 50V			
C108	ECBT1H101KB5	100P 50V	C338	ECEA1AU471B	470 10V	C749	ECUZNE104MBN	0.1 25V			
C109	ECBT1H102KB5	1000P 50V	C339	ECBT1C103MS5	0.01 16V	C751	ECUZNE104MBN	0.1 25V			
C115	ECEA0JU101B	100 6.3V	C340	ECEA1CU222B	2200 16V	C752	ECUV1H152KBN	1500P 50V			
C116	ECEA1HU010B	1 50V	C341	ECEA1AU221B	220 10V	C753	ECUV1H471KBM	470P 50V			
C117	ECEA0JKA470B	47 6.3V	C342	ECEA1EU221B	220 25V	C754	ECUV1H471KBN	470P 50V			
C118	ECQV1H184JZ3	0.18 50V	C344	ECEA1AU101B	100 10V	C801	ECBT1H471KB5	470P 50V			
C119	ECEA1AU471B	470 10V	C351	ECFR1C223MR	0.022 16V	C802	ECBT0J223MS5	0.022 6.3V			
C120	ECFR1C153MR	0.015 16V	C352	ECFR1C683MR	0.068 16V	C803	ECBT1C682MR5	6800P 16V			
C121	ECEA1CU100B	10 16V	C353	ECBT1H102KB5	1000P 50V	C811	ECFR1C104MR	0.1 16V			
C122	ECBT1H561KB5	560P 50V	C354	ECBT1H102KB5	1000P 50V	C812	ECFR1C103MR	0.01 16V			
C123	ECEA1HU010B	1 50V	C355	ECEA1HU010B	1 50V	C820	ECEA1HKA010B	1 50V			
			C360	ECBT1C103MS5	0.01 16V	C821	ECEA1CKA100B	10 16V			
			C361	ECBT1C103MS5	0.01 16V	C822	ECEA1HKA010B	1 50V			

■ Packing Materials & Accessories

Notes: * Important safety notice:

Components identified by Δ 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. (Refer to the cover page for area)

Parts without these indications can be used for all areas.

* The "(SF)" mark denotes the standard part.

* [M] Indicates in the Remarks columns 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
		PACKING MATERIALS				ACCESSORIES					
P1	RPGX0265	GIFT BOX	[M](EB)	A1	RQT3560-1B	INSTR. MANUAL	[M](EB)				
P1	RPGX0241	GIFT BOX	[M](EG)	A1	RFKSXDT530EG	INSTR. MANUAL ASS'Y	[M](EG)				
P2	RPHX0007-1	MIRAMAT SHEET	[M]	A2	VJA0733	AC-CORD	Δ (SF)(EB)				
P3	RPNX0048	POLYFOAM	[M]	A2	RJA0019-2K	AC CORD	Δ (SF)(EG)				