

Service Manual

COMPACT
disc
DIGITAL AUDIO

MASH*
multi-stage noise shaping

Portable Stereo Component CD System

RX-DT770

Colour

(K) ... Black Type

Area

Suffix for Model No.	Area	Colour
(EP)	Poland	(K)

* MASH is a trademark of NTT.



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

■ Specifications

■ RADIO

Frequency range	
FM	87.50 – 108.00 MHz (50 kHz steps)
LW	144 – 288 kHz (9 kHz steps)
MW	522 – 1611 kHz (9 kHz steps)
Intermediate Frequency	
FM	10.7 MHz
AM	459 kHz
Sensitivity	
FM	13 dB/50 mW
LW	53 dB/m/50 mW
MW	49 dB/m/50 mW

■ CD PLAYER

Sampling frequency	44.1 kHz
Decoding	16 bit linear
Beam source	Semiconductor laser (wavelength; 780 nm)
No. of channels	2 channel, stereo
Frequency Response	20 Hz – 20 kHz(+1, -1 dB)
S/N ratio	78 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 (Multi pole)
Monitor system	Variable sound monitor
Frequency range(Normal position)	50 – 13,000 Hz

■ GENERAL

Power requirement	230 – 240 V, 50 Hz
AC	Power consumption: 60 W
Battery	12V (Eight R20/LR20, UM-1 batteries)
Memory back-up for computer/clock	6V (Four R6/LR6, UM-3 batteries)
Speakers	12 cm x 2 (Full range Woofer) 1.5 cm x 2 (Tweeter)
Jacks	
Output	Speakers; 6 – 16 Ω (Woofer) Phones; 32 Ω
Input	MIX MIC; 5 mV (600 Ω)
Dimensions (W x H x D)	645 x 264 x 261 mm Main unit; 317 x 264 x 261 mm Speaker box; 171 x 254 x 197 mm
Weight	7.1 kg without batteries

Notes :

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

Panasonic®

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⚠ WARNING

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

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■ Precaution of Laser Diode

CAUTION : This product utilizes a laser diode with the unit turned "ON", invisible laser radiation is emitted from the pick up lens.
Wavelength : 780 nm
Maximum output radiation power from pick up : 100 μ W/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 laserdioden. Im eingeschalteten zustand wird unsichtbare laserstrahlung von der lasereinheit abgestrahlt.

Wellenlänge : 780nm
Maximale strahlungsleistung der lasereinheit : 100 μ 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 laserdioden 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.

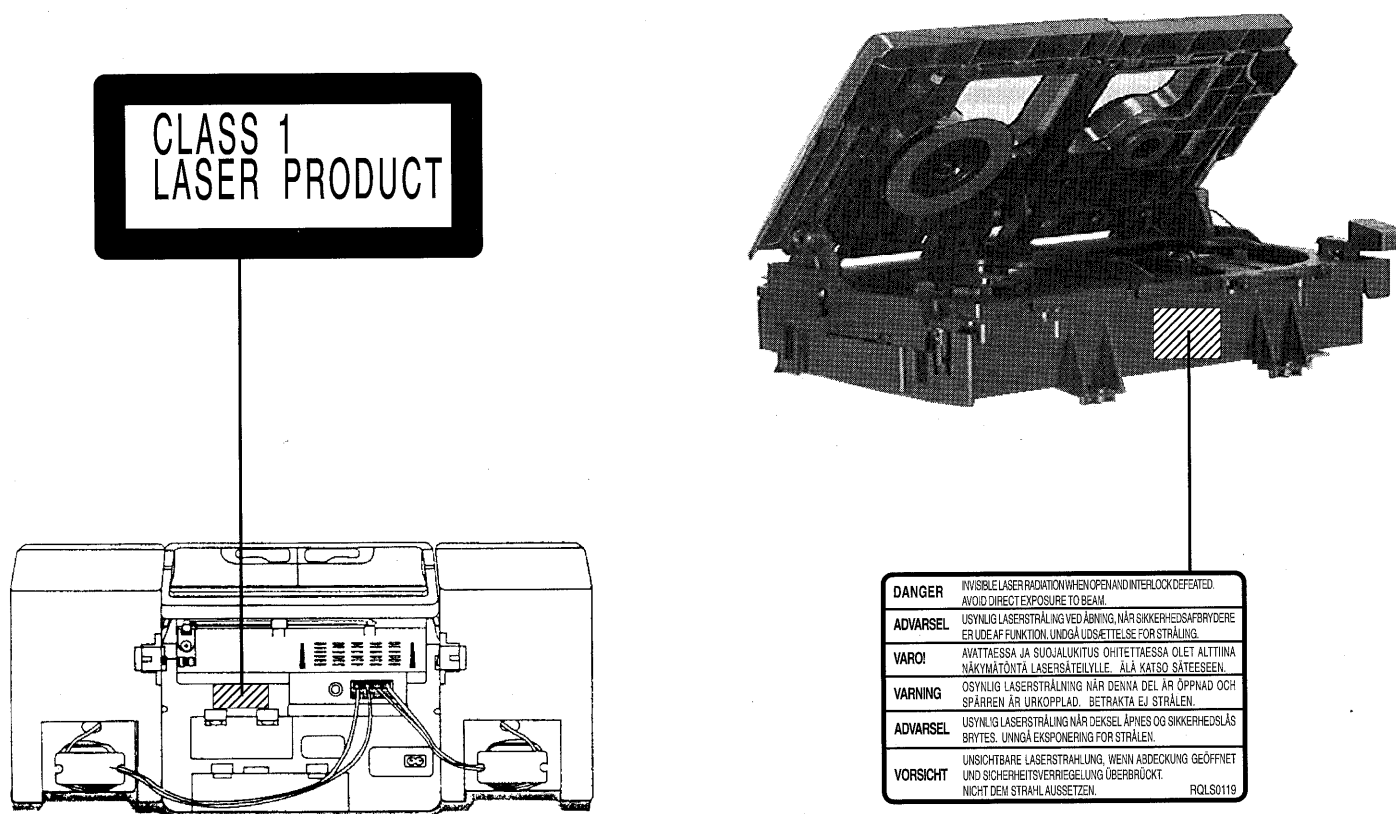
ADVASEL: I dette a apparat anvendes laser.

CAUTION!

THIS PRODUCT UTILIZES A LASER.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

■ Use of Caution Labels



■ Handling Precautions for Traverse Deck

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

• Handling of traverse deck (optical pickup)

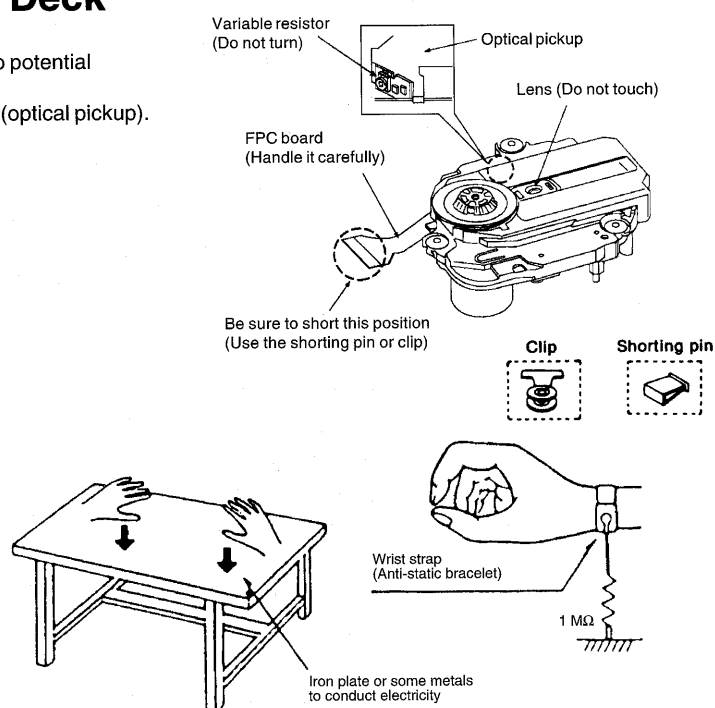
1. Do not subject the traverse deck (optical pickup) to static electricity as it is extremely sensitive to electrical shock.
2. To prevent the breakdown of the laser diode, an antistatic shorting pin is inserted into the flexible board (FPC board). When removing or connecting the short pin, finish the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

• Grounding for electrostatic breakdown prevention

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

Caution :

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



■ 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.
4. Refer the Parts No. on the page of "Main Component Replacement Procedures", if necessary.

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• Disassembly Procedures

1. Disassembly of the Front Cabinet	4
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• Assembly of the CD Changer Unit

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• Checking Procedure for each major P.C.B.

1. Checking for the Servo P.C.B.	8
2. Checking of the Panel P.C.B. and Main P.C.B.	8

• Main Component Replacement Procedures

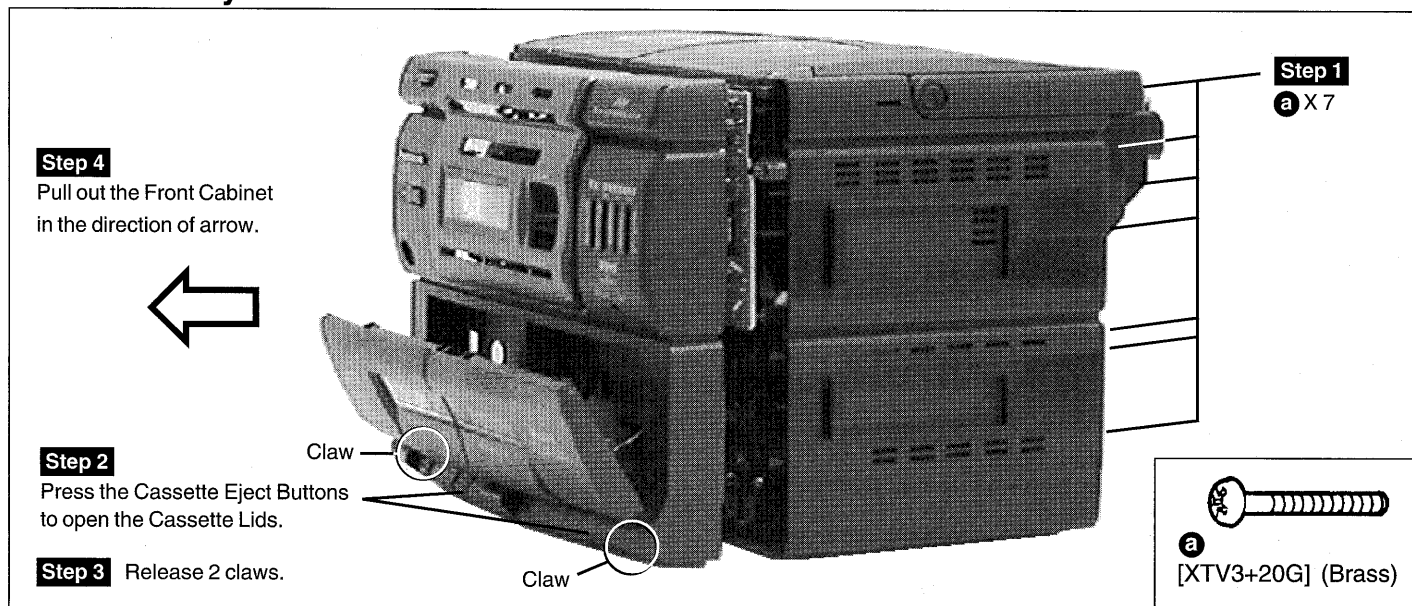
1. Replacement of the Traverse Deck	9
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Warning : This product uses a laser diode. Refer to caution statements on page 2.

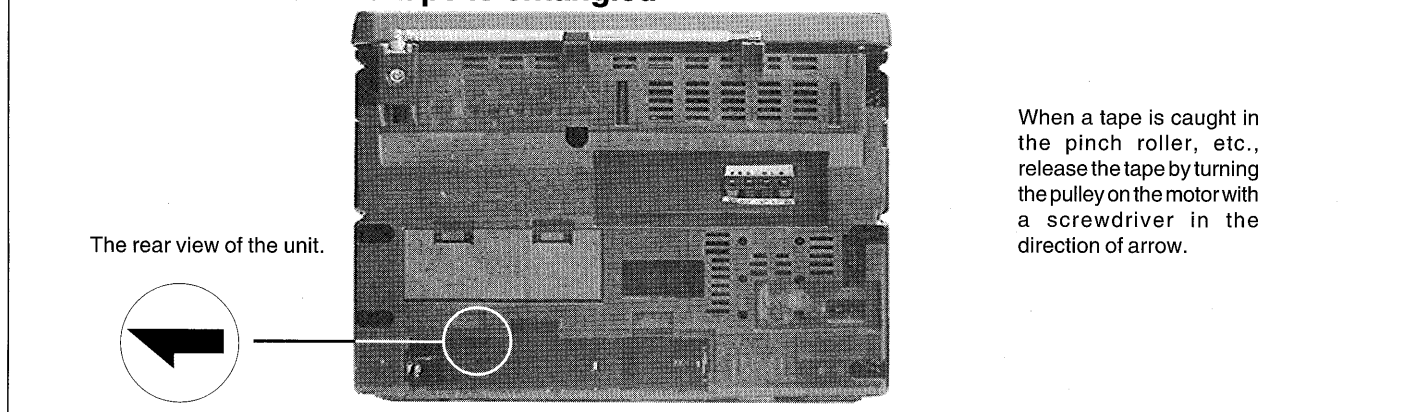
ACHTUNG : • Die lasereinheit nicht zerlegen.

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

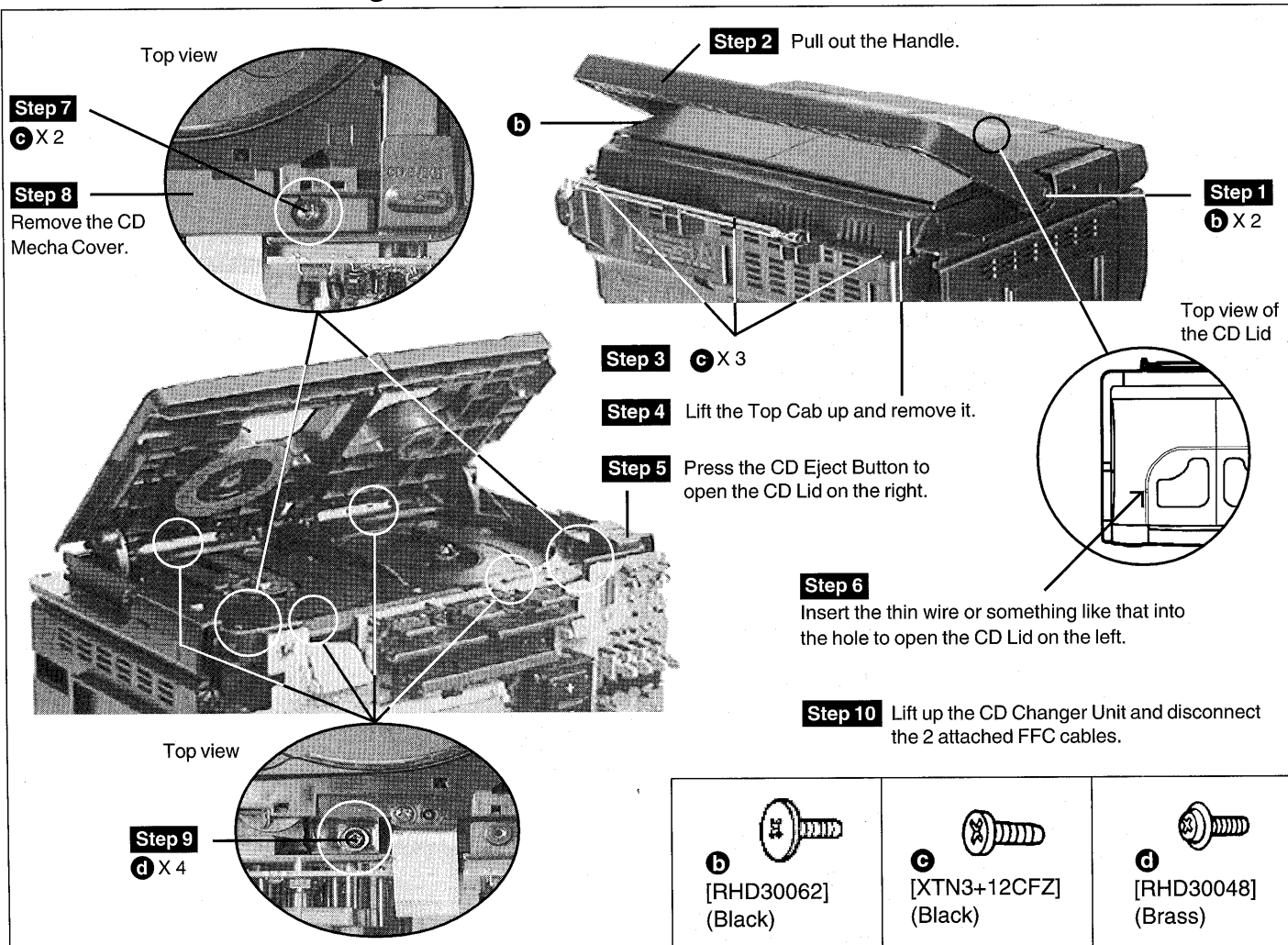
■ Disassembly of the Front Cabinet



■ What to do when the tape is entangled



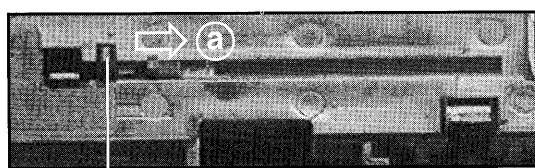
Remove of the CD Changer Unit



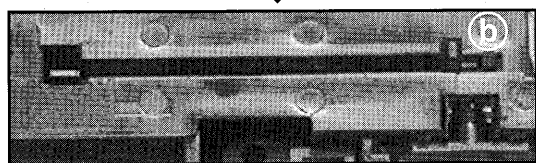
Disassembly of the Traverse Unit

Step 1 Follow the procedures in 'Remove of the CD Changer Unit' (Step 1 ~ Step 10).

Bottom view of CD Changer Unit

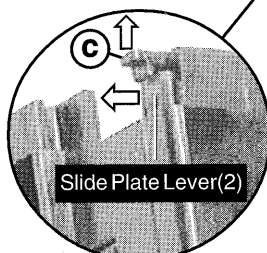


Slide Plate Lever(1)

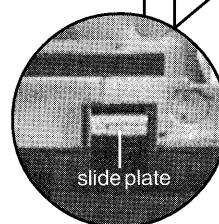


Step 2

Move the Slide Plate Lever(1) in the direction of arrow (a) to the position (b) and hold it, then lift up the stopper (c) until the Slide Plate Lever(2) eject out. Now the 3 slide plate will be open as shown in the figure 1 and the traverse unit can be removed.



Slide Plate Lever(2)



slide plate

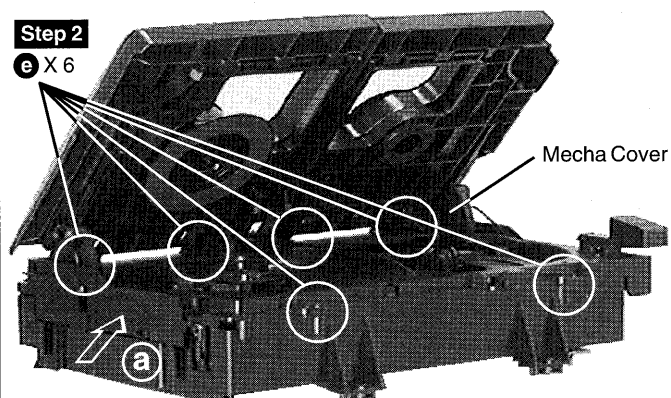
Fig. 1

Disassembly of the CD Changer Unit

Step 1 Follow the procedures in 'Remove of the CD Changer Unit' (**Step 1** ~ **Step 10**).

Step 2

e X 6



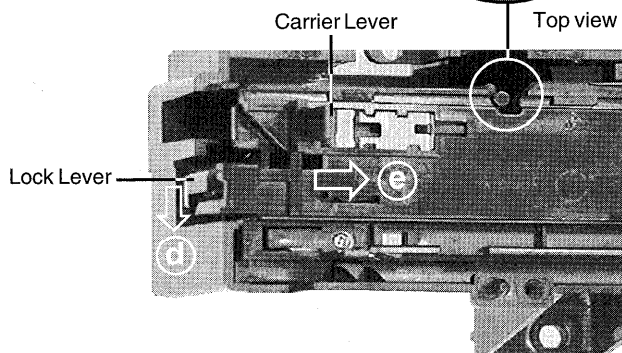
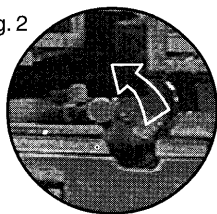
Step 3

Press in the direction of arrow (a) and then pull out the Mecha Cover Ass'y.

Step 5

Press the Lock Lever in the direction of arrow (d) until the other end of Lock Lever move out as shown in the figure 2.

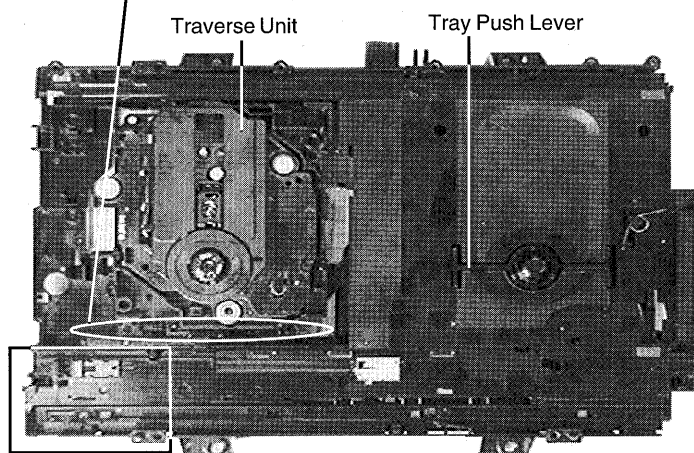
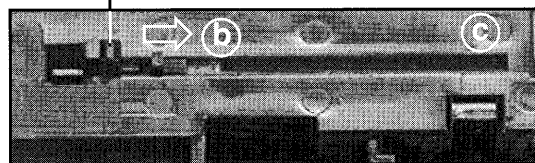
Fig. 2



Step 4

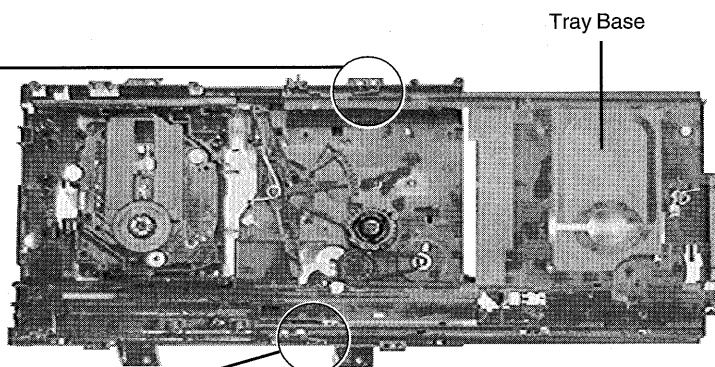
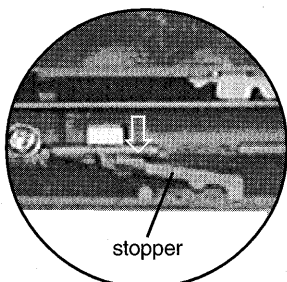
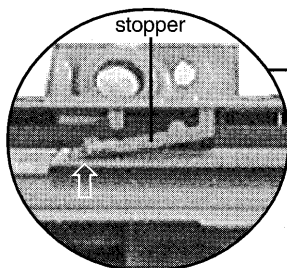
Move the Slide Plate Lever(1) in the direction of arrow (b) to the position (c) until the Traverse Unit move down, then remove the Tray Push Lever.

Slide Plate Lever(1) Bottom view of CD Changer Unit



Step 6

Press the Carrier Lever in the direction of arrow (e) until the Tray Base move out as shown in the diagram below.



Step 7

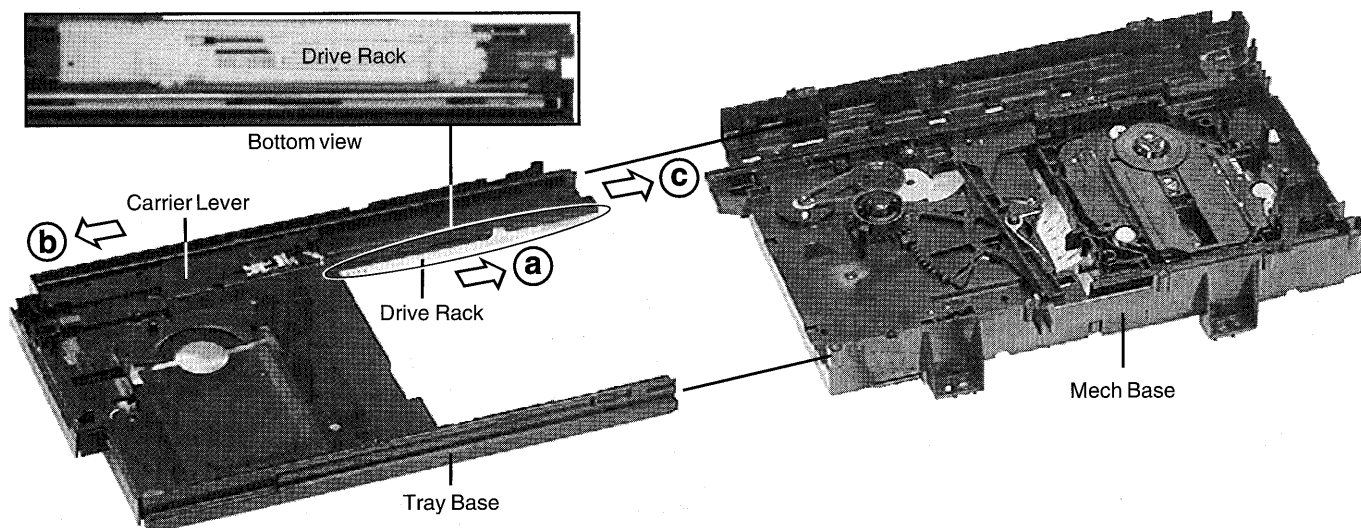
Release the 2 stoppers by hands and pull out the Tray Base in the direction of arrow (f).

e [XTB3+10JFZ]
(Black)

■ Assembly of the CD Changer Unit

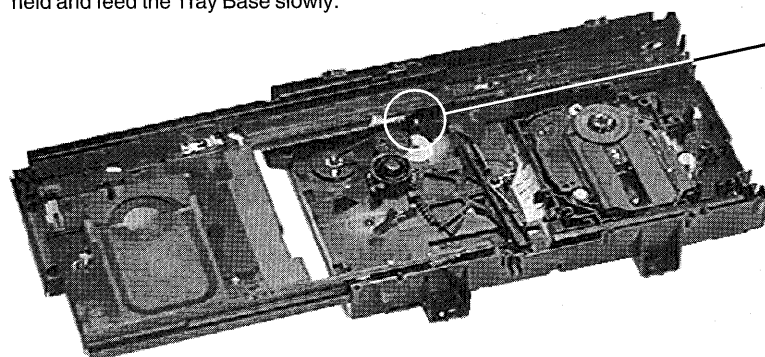
Step 1

Move the Drive Rack in the direction of arrow (a) to the position as shown in the diagram below and the Carrier Lever in the direction of arrow (b).



Step 2

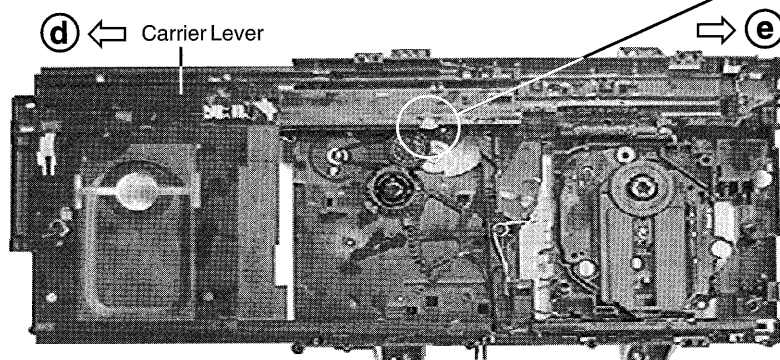
While holding the Drive Rack and Carrier Lever, install the Tray Base on the Mech Base in the direction of arrow (c) until the Tray Base stops as shown in figure 1. Release only the Carrier Lever and push the Tray Base together with the Drive Rack. After engaging the gear, release the Drive Rack which held and feed the Tray Base slowly.



Top view

Step 3

Hold the Carrier Lever and push it in the direction of arrow (d) to the end until the Tray Base stops. Make sure the mark '▽' on the Tray Base is aligned with the mark '△' on the Drive Rack as shown in figure 2 before closing the Tray Base.



Step 4

After closing the Tray Base, slide the Carrier Lever in the direction of arrow (e) until it reaches the end of the Tray Base.

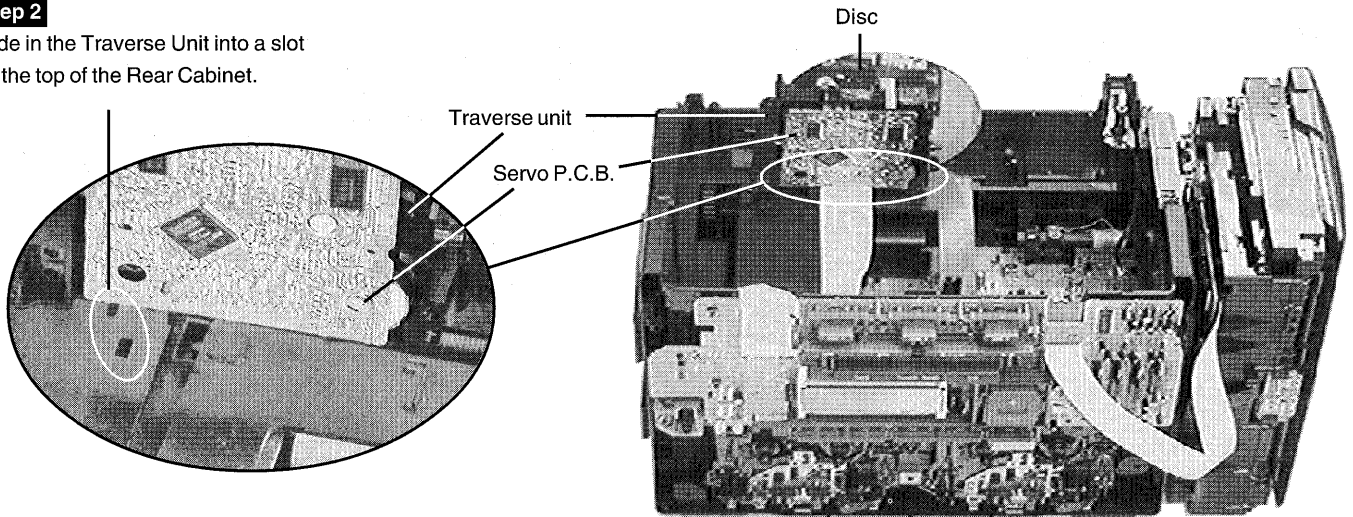
■ Checking Procedure for each major P.C.B.

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

Step 1 Follow the procedures in 'Disassembly of the Traverse Unit' (**Step 1** ~ **Step 2**).

Step 2

Slide in the Traverse Unit into a slot on the top of the Rear Cabinet.

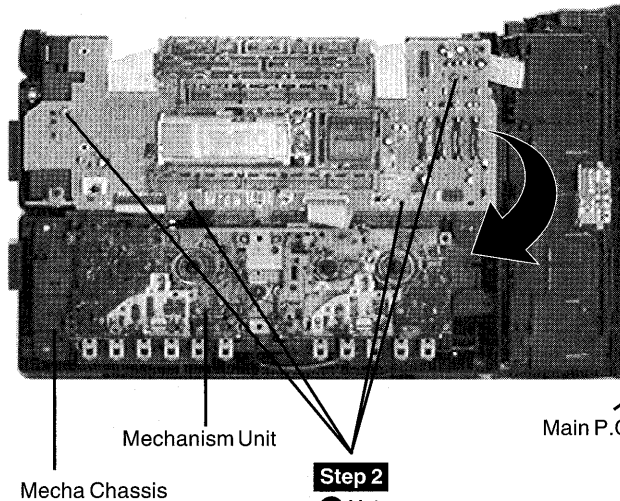


Step 3

Attach the disc and clasper with magnet to the Traverse unit as shown in the diagram below, then check the Servo P.C.B.

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

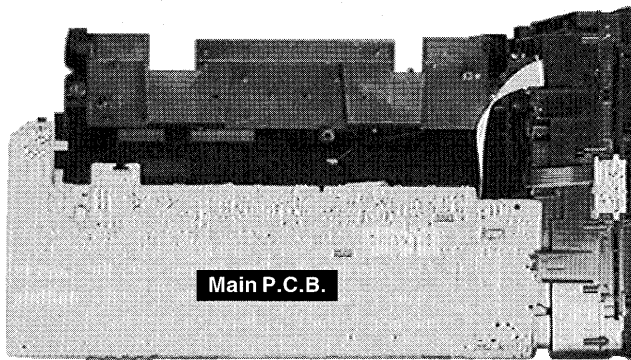
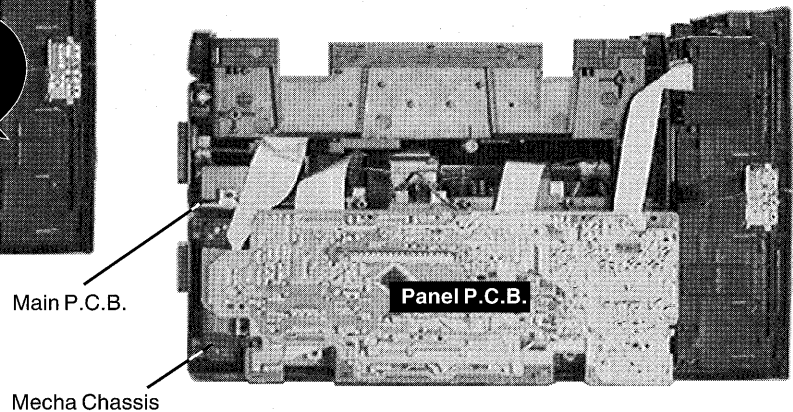
Step 1 Follow the procedures in 'Disassembly of the Front Cabinet' and 'Remove of the CD Changer Unit'.



Step 2
a X 4

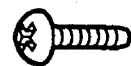
Step 3

Pull down and check Panel P.C.B. as shown below.



Step 4

Pull out the Mecha Chassis with Mechanism Unit on it and Main P.C.B together. Position and check Main P.C.B. as shown on the left.



a

[XTV3+12G] (Brass)

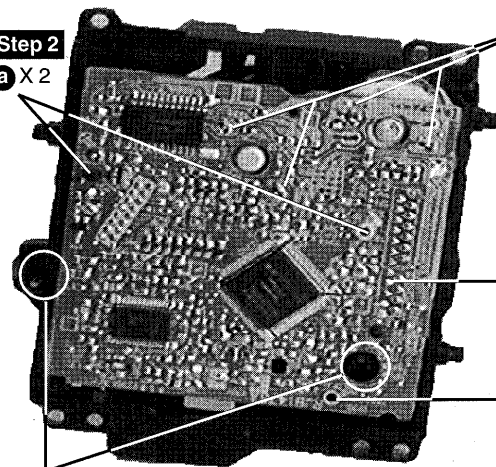
■ Main Component Replacement Procedures

1. Replacement of the Traverse Deck

Step 1 Follow the procedures in 'Disassembly of the Traverse Unit' (**Step 1** ~ **Step 2**).

Step 2

a X 2



Step 4

Desolder the 4 legs of the 2 motors and pull out the Servo P.C.B.

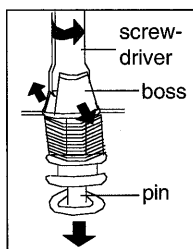
Servo P.C.B.

Step 3

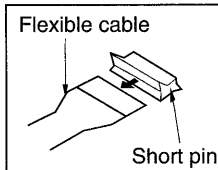
b X 1

Step 5

Widen the 2 bosses with a flat screwdriver and pull out the 2 pins. Then remove the Traverse Deck.

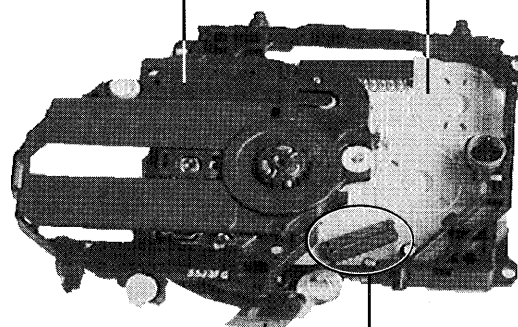


Note :
Insert a short pin into the flexible cable for traverse unit.



Traverse Deck

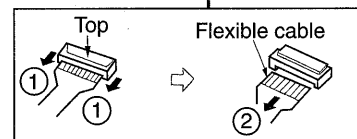
Servo P.C.B.



Step 6

Remove the flexible cable CN701.

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



a



[XTV2+6G] (Brass)

b



[XTN2+6G] (Brass)

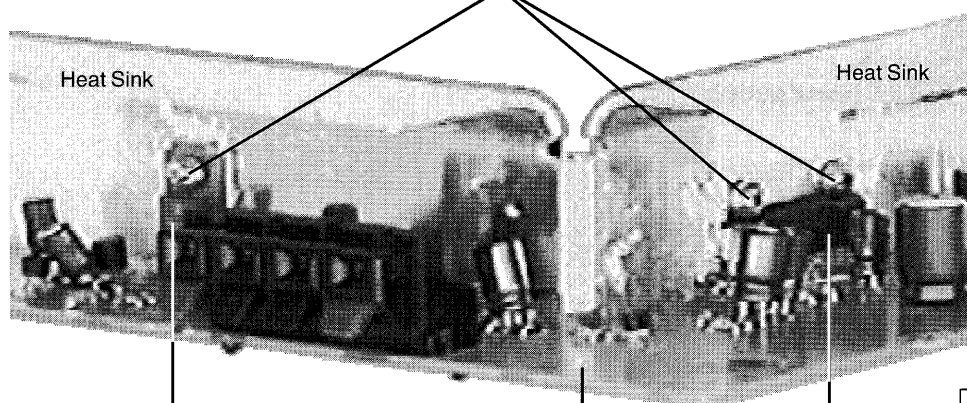
2. Replacement of the Power Amplifier IC and Regulator Transistor

Step 1

Disassemble the Front Cabinet, Panel P.C.B., Mecha Chassis and pull out the Main P.C.B.

Step 2

c X 3



Heat Sink

Heat Sink

Regulator Transistor

Main P.C.B.

Power Amplifier IC

c



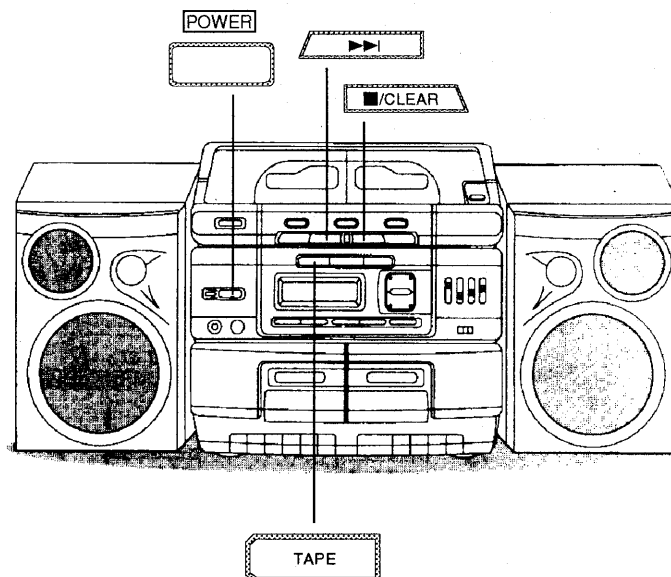
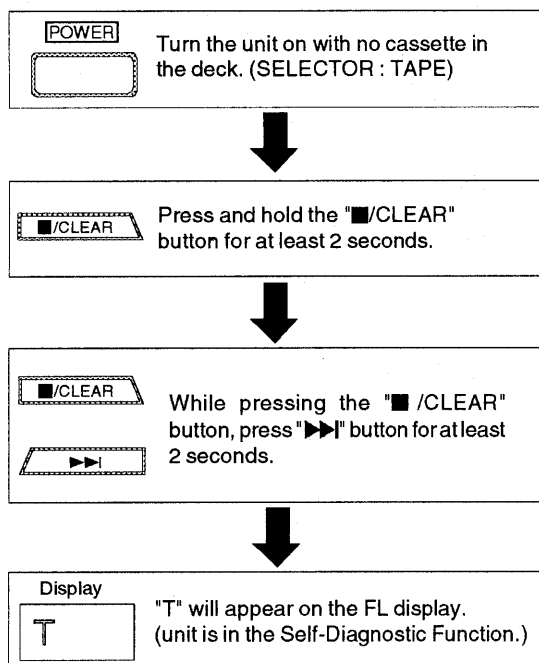
[XTV3+8F] (Brass)

■ Self-Diagnostic Display Function

■ Self-diagnostic display

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

■ How to enter the Self-Diagnostic Function



■ CD / CD Changer Self-Diagnostic Function mode

Press "TAPE" button while the unit is in the Self-Diagnostic Function mode.

■ To Display Self-Diagnostic Result

1. Press "TAPE" button.
 *If several problem exist, error code will change each time when "TAPE" button is pressed.
 (e.g. F15 → F26 → F28 etc)
 *If no problem, "T" will remain unchanged.

■ To clear all Error code

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

■ How to get out from Self-Diagnostic function

1. Press "POWER" button OFF.

(1) Error detection for CD/CHANGER block

No.	Error	Error Display	Problem condition
1	REST SW detection error	F15	CD does not function. This error occurs when the Optical Pick Up REST SW (S701) is not detected within the specified time (about 8 seconds)
2	SW1 (STK), SW2 (PLY) detection error	F28	CD loading mechanism does not move correctly. This error occurs when SW1 (stocker position detection) is not ON or OFF, or SW2 (play position detection) is not ON or OFF within the specified time.
3	SW3 (LID) detection error	F25	CD does not operate correctly. This error occurs when SW3 (CD Traverse Lid switch) is not ON or OFF within the specified time.
4	SW5 (TNO) detection error	F27	Tray number does not detect correctly. This error occurs when SW5 (Tray number detection) can not be detected normally or when the TRAY No. is uncertain.
5	Transmission error between CD servo LSI and micon	F26	CD does not function. This error occurs when the POWER is ON for the CD block and an error is detected after the transmission has started.
6	CD power error	F75	CD does not function. Check if CDRST is H for SELECTOR at CD. If it is not H after 1 second, it shall be memorised as an error.
7	Batteries consumption check error	U01	It is due to consumption of batteries. Replace the batteries with new one.
8	Power supply check error	U02	Check the power plug (AC) or insert the batteries (DC).

■ Alignment Points

< TUNER SECTION >

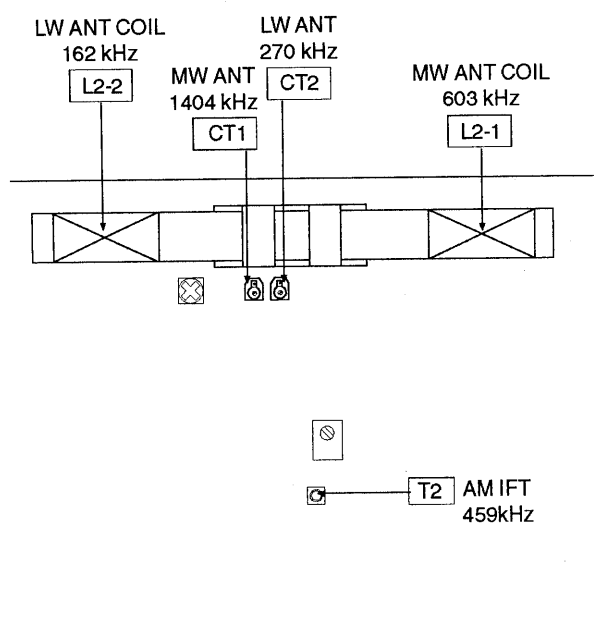


Fig. 1

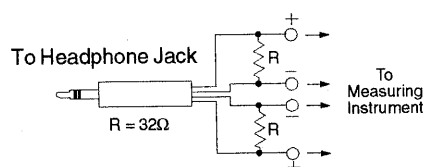


Fig. 2

< CASSETTE DECK SECTION >

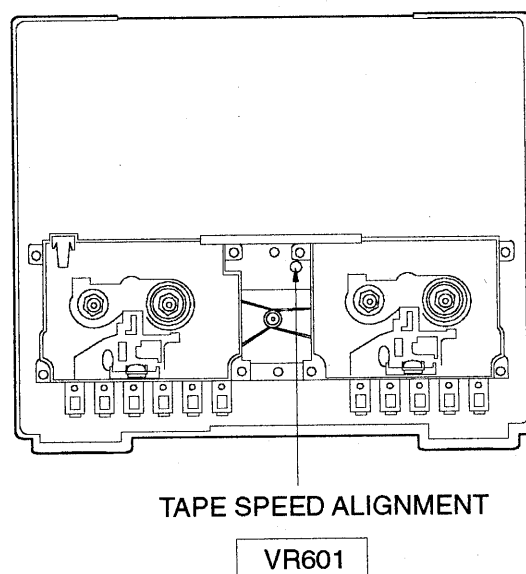


Fig. 3

■ Measurements and Adjustments

< TUNER SECTION >

■ ALIGNMENT INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set volume control to maximum.
2. Set XBS level control to minimum.
3. Set power source voltage to 12V DC.
4. Set GEQ controls to center.
5. Output of signal generator should be no higher than necessary to obtain an output reading.

■ 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 400Hz	Point of non-interference. (on/about 600Hz)	Headphones 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

Fashion a loop of several turns of wire and radiate a signal into the loop ant. of receiver.	603 kHz	Tune to signal	"	(*1) L2-1 (MW ANT Coil)	Adjust for maximum output. Adjust L2-1 by moving coil along the ferrite core.
"	1,404 kHz	"	"	CT1 (MW ANT Trimmer)	Adjust for maximum output.

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

■ LW-RF ALIGNMENT

Fashion a loop of several turns of wire and radiate a signal into the loop ant. of receiver.	162 kHz	Tune to signal	"	(*1) L2-2 (LW ANT Coil)	Adjust for maximum output. Adjust L2-2 by moving coil along the ferrite core.
"	270 kHz	"	"	CT2 (LW ANT Trimmer)	Adjust for maximum output.

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

< CASSETTE DECK SECTION >

■ ALIGNMENT INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Measuring Instruments

- Digital frequency counter

Test tape

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

Measuring condition

- Make sure the heads are clean.
- Make sure the capstan and pressure roller are clean.
- Tape-to-tape recording speed selector : NORMAL

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

• TAPE SPEED ALIGNMENT (DECK 1,2)

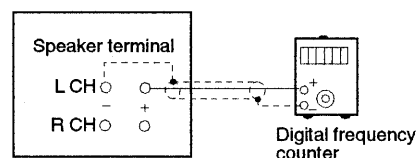
Normal speed (Standard Value : 3000 ± 50 Hz ... Deck 2)
(Standard Value : Deck 2 ± 50 Hz ... Deck 1)
High speed (Standard Value : 5100 Hz ~)

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 in figure 3.
5. Playback the middle part of the test tape (QZZCWAT) in deck 1.
6. Repeat step 4.
7. Set the unit to "HIGH" speed position.
8. Place the cassette deck into the REC mode (DECK 1) and the PLAY mode (DECK 2).
9. Repeat step 4.

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

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

UNIT



■ Terminal Function of ICs

• 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

• 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	PFLAG	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

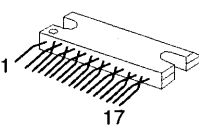
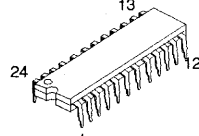
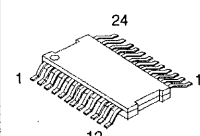
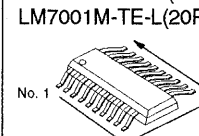
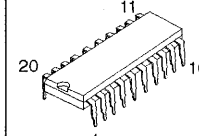
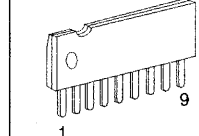
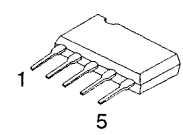
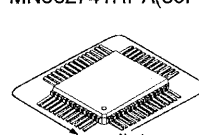
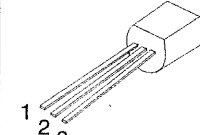
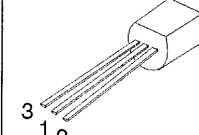
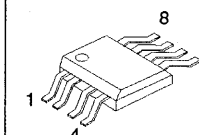
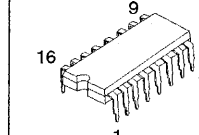
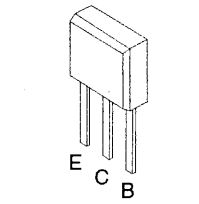
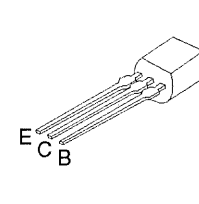
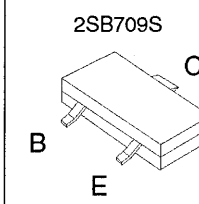
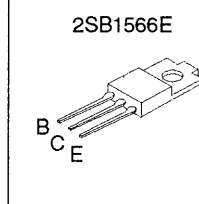
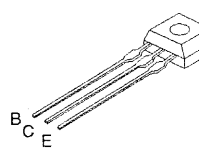
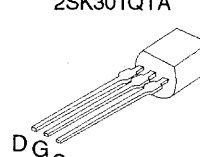
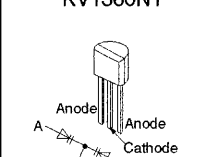
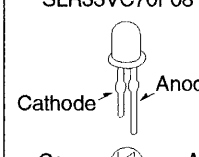
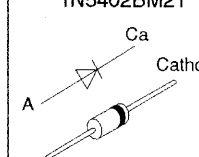
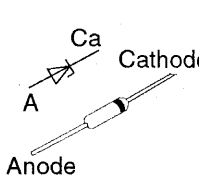
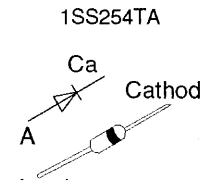
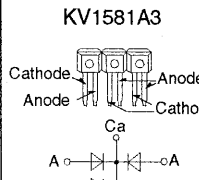
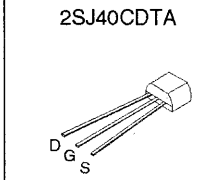
Pin No.	Mark	I/O	Function
			"L" : 16.9344MHz "H" : 33.8688MHz
78	PSEL	I	Test input (normally "L") (Not used, open)
79	MSEL	I	Output mode switching of SUBQ terminal ("H" : Q code buffer mode)
80	SSEL	I	Output frequency switching for SMCK terminal "H" : SMCK=8.4672MHz "L" : MCK=4.2336MHz (Not used, open)

• IC801 (M38254M6125) System Microprocessor

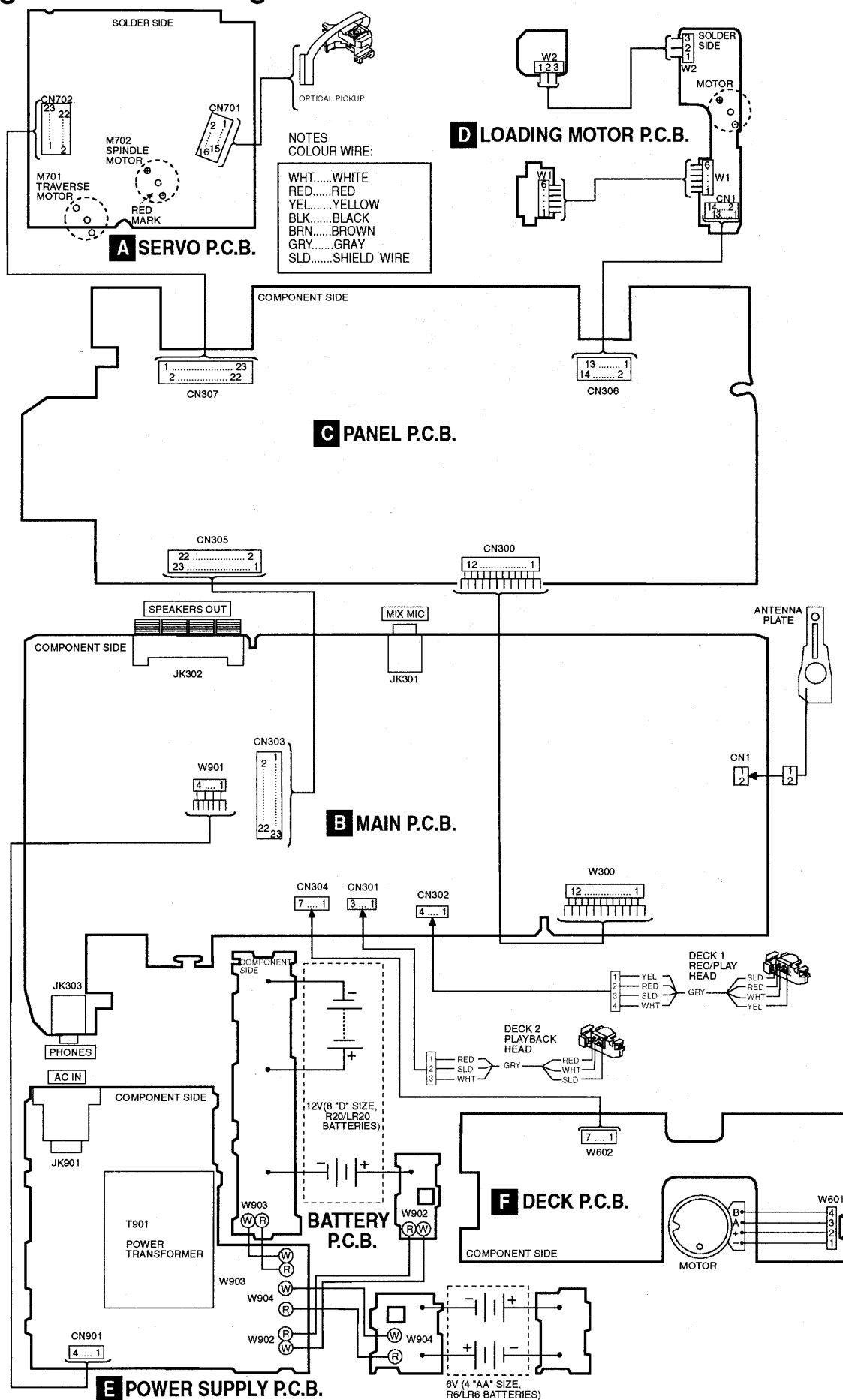
Pin No.	Mark	I/O	Function
1	NC	—	No connection
2	VL1	—	Power supply input for LCD
3	PWRCTRL	O	Power control output
4	PWDET	I	Power detection input
5	REGION	I	Area setting input
6	MOTOR	O	Motor control output
7	MTRSW	I	Motor switch input
8	RECH	I	Record high signal input
9	KEY2	I	KEY 2 input
10	KEY1	I	KEY 1 input
11	MCLK	O	CD signal processor clock output
12	MDATA	O	CD signal processor data output
13	MLD	O	CD signal processor load output
14	SD	I	PLL signal detect input
15	STEREO	I	PLL stereo detect input
16	MONO	O	PLL MONO output
17	RMSTBY	I	Remote control standby input
18	RMT	I	Remote control sensor input
19	VCCDET	I	VCC detect input (main power detection)
20	SQCK	O	CD subcode clock output
21	PWR	I	Power ON/OFF key input
22	SUBQ	I	CD subcode Q data input
23	BLKCK	I	CD subcode block clock input
24	RESTSW	I	CD limit switch input
25	TLOCK	I	CD tracking lock input
26	FLOCK	I	CD focus lock input
27	SENSE	I	CD servo processor sense input
28	CDRST	O	CD reset output
29	TNO	I	CD tray number detect switch input (SW5)
30	STAT	I	CD signal processor status input
31	AFDA	O	Volume IC data output
32	AFCK	O	Volume IC clock output
33	RNDM	I	Random play operation selection. L = Play based on continue mode H = Any 3 disc can be played
34	VOL	I	Volume characteristic selection.

Pin No.	Mark	I/O	Function
			L = Smaller attenuation steps H = Original attenuation steps
35	RESET	I	System reset input
36	XCIN	I	32.768 kHz sub clock
37	XCOUT	O	32.768 kHz sub clock
38	XIN	I	4.19 MHz main clock
39	XOUT	O	4.19 MHz main clock
40	VSS	—	Ground (0 V)
41	MBP1	O	Microcomputer beat proof output 1
42	MBP2	O	Microcomputer beat proof output 2
43	TUNERL	O	Function select tuner low output
44	CDL	O	Function select CD low output
45	STO	I	Stocker area detection switch (SW1)
46	PLY	I	Play position detection switch (SW2)
47	STL	I	Stocker lid switch (SW6)
48	TRL	I	Traverse lid switch (SW3)
49	FWD	O	Motor control forward output
50	REV	O	Motor control reverse output
51	PLLDA	O	PLL data output
52	PLLCE	O	PLL chip enable output
53	PLLCK	O	PLL clock output
54	NC	—	No connection
55	BP1	O	Deck mecha beat proof output 1
56	BP2	O	Deck mecha beat proof output 2
57	MUTE A	O	Audio Mute output A
58	MUTE B	O	Audio Mute output B
59	NC	—	No connection
60-90	SEG30~SEG0	O	LCD segment drive output
91	VCC	—	Power supply (+5 V)
92	VREF	—	Reference voltage for A-D converter
93	AVSS	—	A-D converter ground
94-97	COM3~COM0	O	LCD common drive output
98	VL3	—	LCD Bias supply
99	VL2	—	LCD Bias supply
100	NC	—	No connection

■ Terminal Guide of ICs, Transistors and Diodes

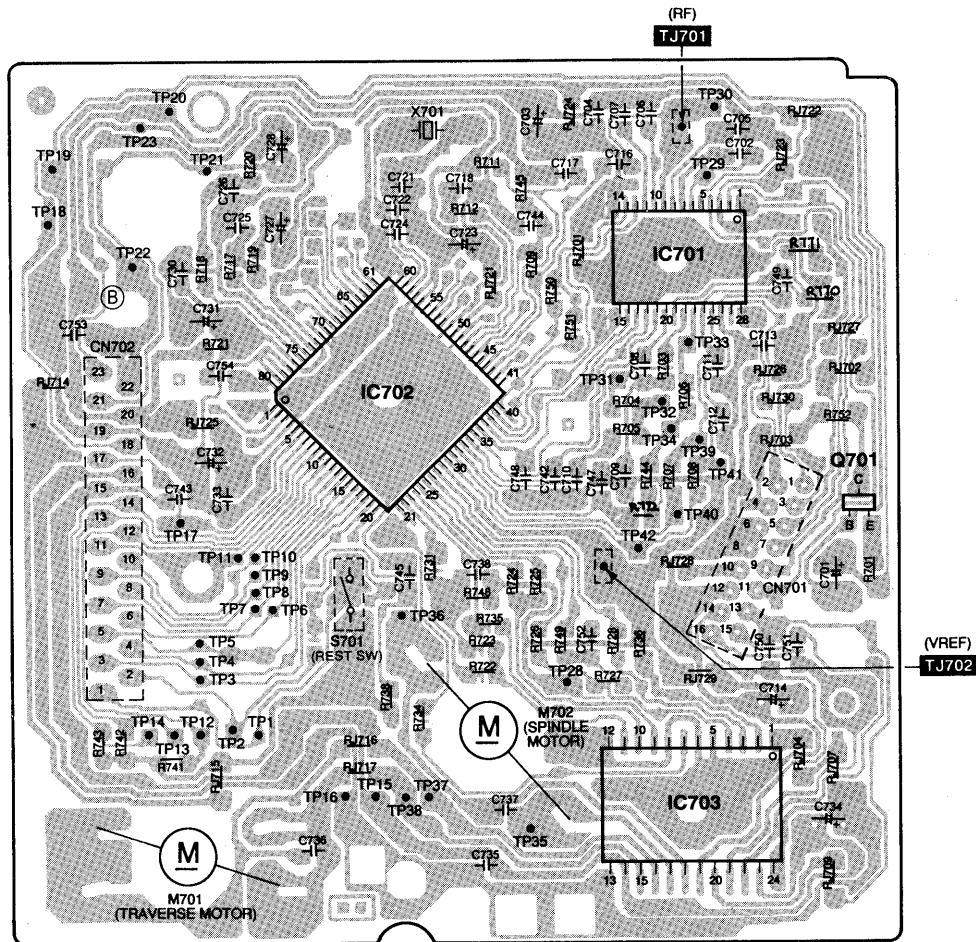
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<p>BA7755A</p> 	<p>M38254M6125(100P) MN662741RPA(80P)</p> 	<p>S-806G-Z</p> 	<p>S81350HG-T</p> 	<p>TA7358FMATEL</p> 	<p>TC4052BP</p> 
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■ Wiring Connection Diagram

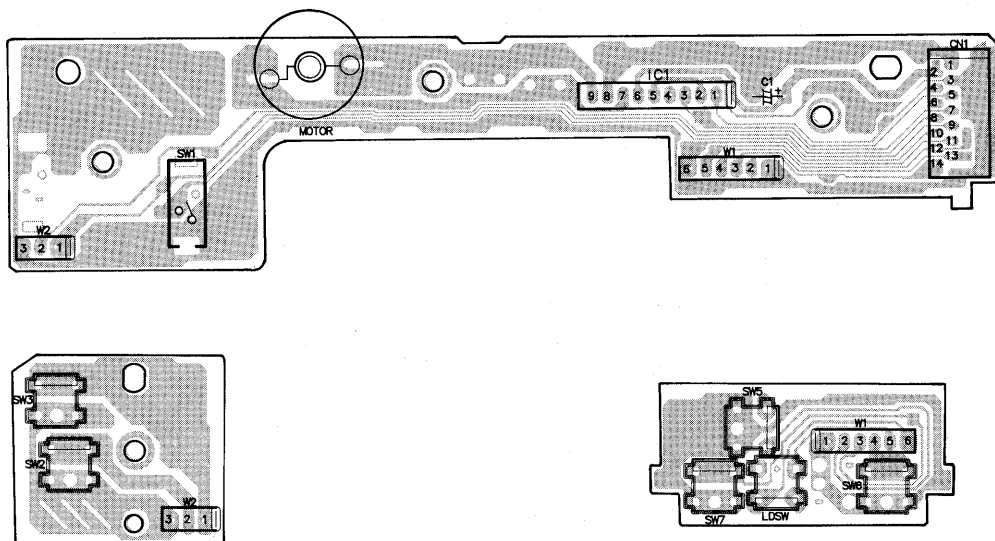


Printed Circuit Board

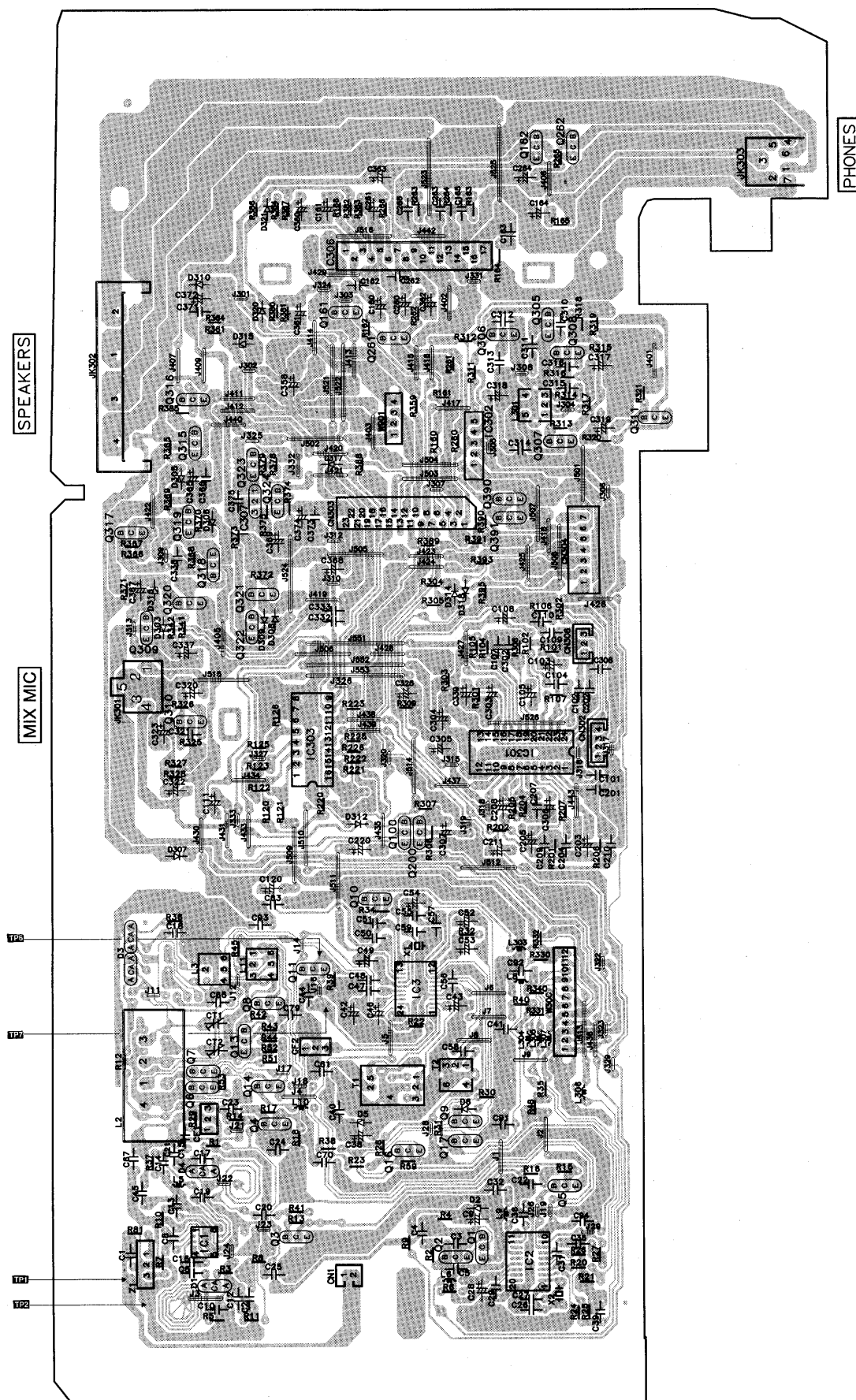
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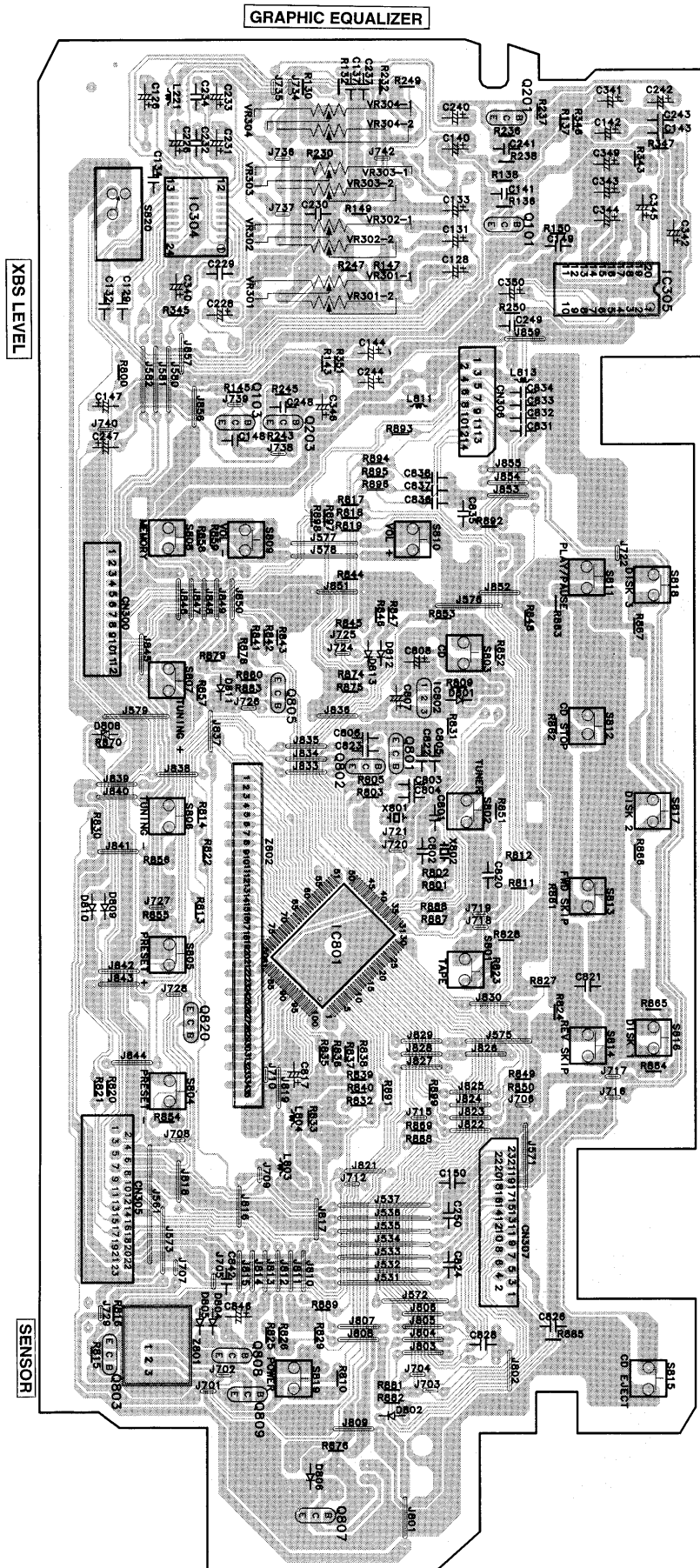


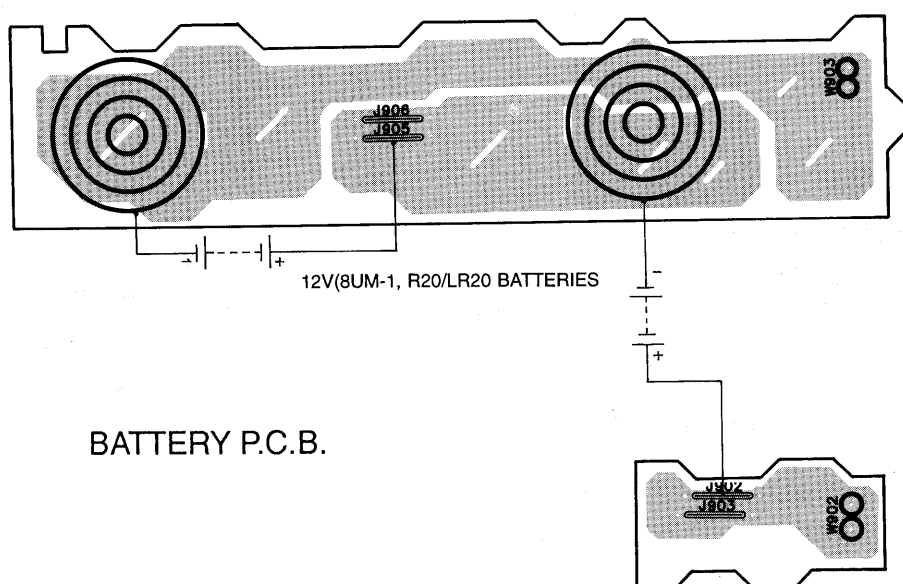
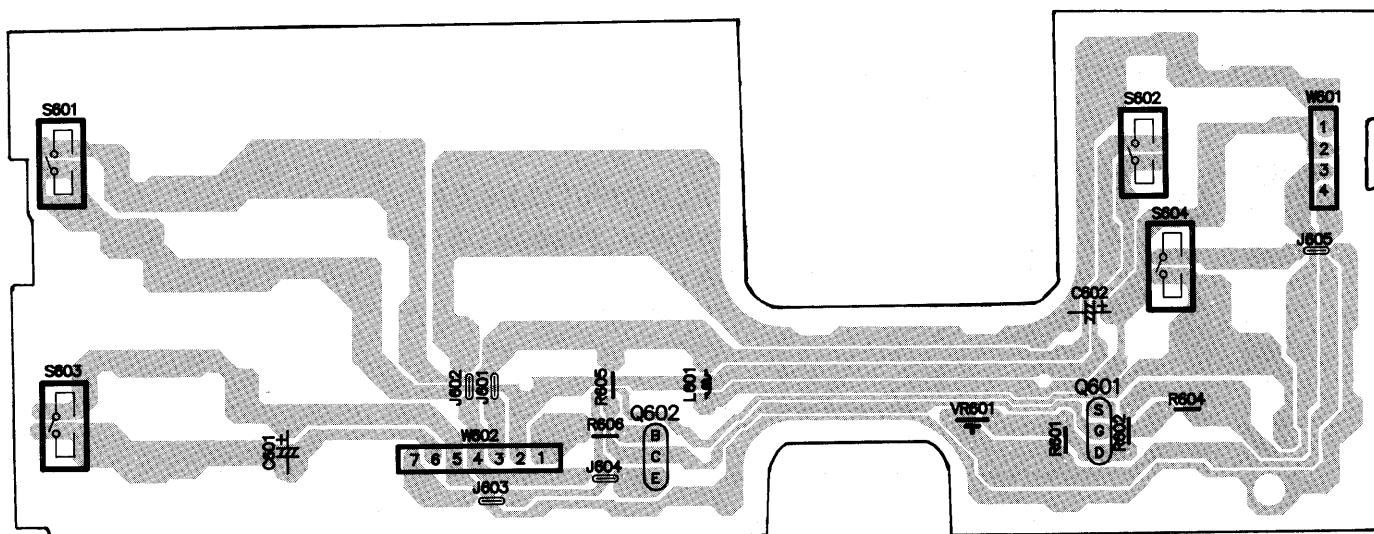
D LOADING MOTOR P.C.B. (REP2182B-N)



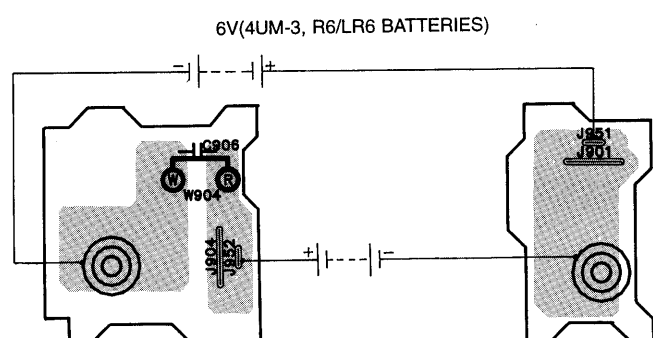
B MAIN P.C.B. (REPX0104A)



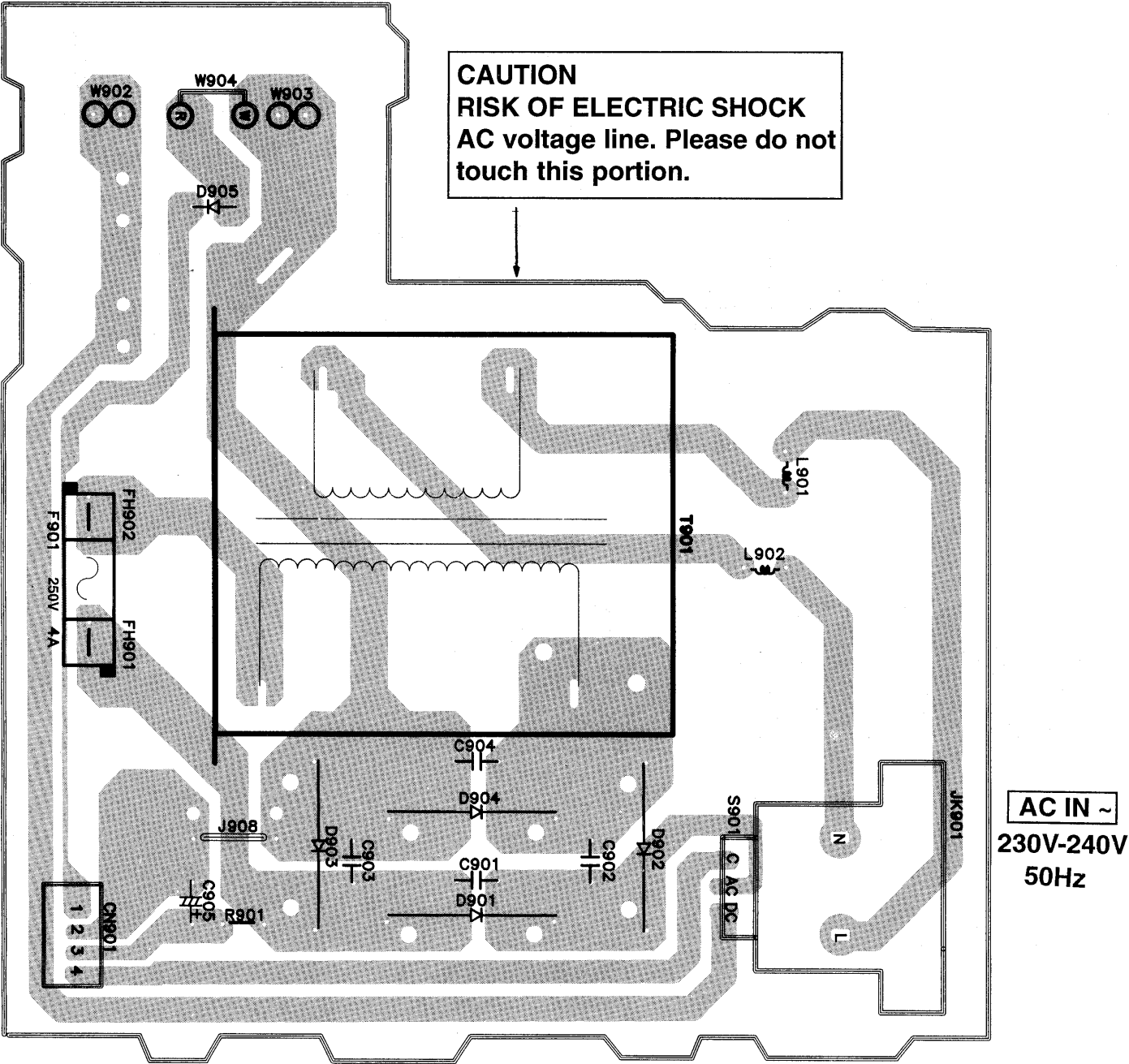
C PANEL P.C.B. (REPX0104A)


F DECK P.C.B. (REPX0062C)


BATTERY P.C.B.



E POWER SUPPLY P.C.B. (REPX0103F)



■ Schematic Diagram

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

Note :

< for Servo circuit > (Page 25)

• S701 : Rest switch

< for Deck circuit > (Page 28)

• S601 : Deck 1 Playback switch.
 • S602 : Deck 2 Playback switch.
 • S603 : Deck 1 Recording switch.
 • S604 : Deck 2 Playback switch.
 • VR601 : Tape Speed Adjustment control.

< for Panel circuit > (Page 30 ~ 32)

• S801 : Tape switch	• S813 : Forward skip switch
• S802 : Tuner switch	• S814 : Reverse skip switch
• S803 : CD switch	• S815 : CD Eject switch
• S804 : Preset Tuning Down switch	• S816 : CD Disc 1 switch
• S805 : Preset Tuning Up switch	• S817 : CD Disc 2 switch
• S806 : Tuning Down switch	• S818 : CD Disc 3 switch
• S807 : Tuning Up switch	• S819 : Power switch
• S808 : Memory switch	• S820 : High Speed Edit switch
• S809 : Volume Down switch	• VR301-1 ~ VR301-2 : XBS control
• S810 : Volume Up switch	• VR302-1 ~ VR302-2 : Equaliser control (330Hz)
• S811 : Play/Pause switch	• VR303-1 ~ VR303-2 : Equaliser control (1kHz)
• S812 : CD Stop switch	• VR304-1 ~ VR304-2 : Equaliser control (10kHz)

< for Loading Motor circuit > (Page 33)

• SW1 : Leaf switch.
 • SW2-SW7-2 : Mecha switch.

< for Power Supply circuit > (Page 33)

• S901 : AC/DC switch (JK901)











< General >

• Battery Current

Vol. min	380mA (Radio)	Vol. max	1050mA (Radio)
	490mA (Tape)		1210mA (Tape)
	520mA (Recording)		610mA (Recording)

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

• Signal line


	: +B line		: Record signal line		: AM OSC signal line
	: FM/AM signal line		: CD signal line		: FM OSC signal line
	: Main signal line		: FM signal line		
	: Playback signal line		: AM signal line		

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

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

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

• Importance 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 components, be sure to use only manufacturer's specified parts shown in the parts list.

Caution !

IC, LSI and VLSI are sensitive to static electricity.

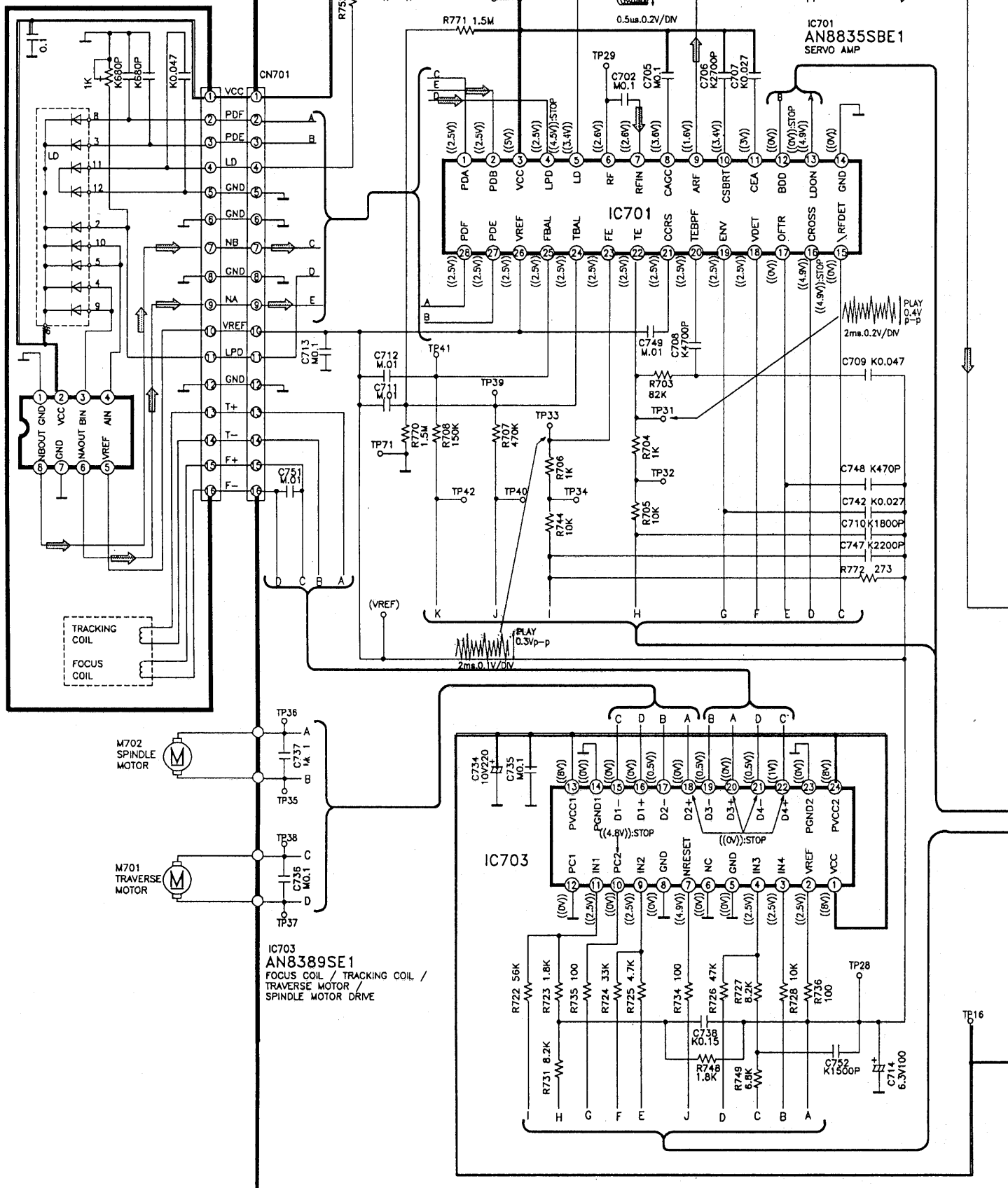
Secondary trouble can be prevented by taking care during repair.

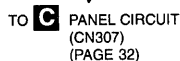
- Cover the parts boxes made of plastics with aluminium foil.
- Ground the soldering iron.
- Put a conductive mat on the work table.
- Do not touch the pins of IC, LSI or VLSI with fingers directly.

Schematic Diagram

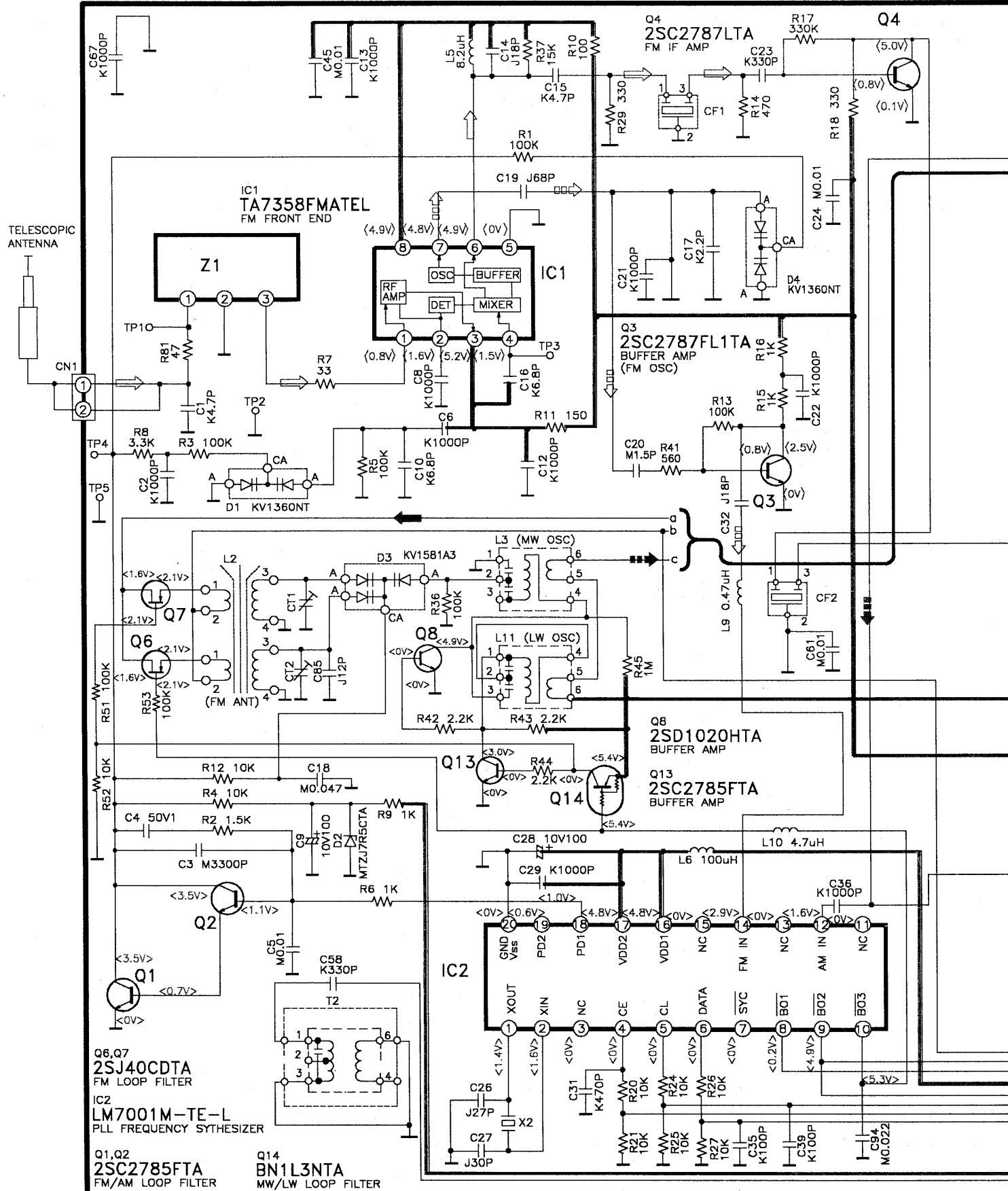
A SERVO CIRCUIT

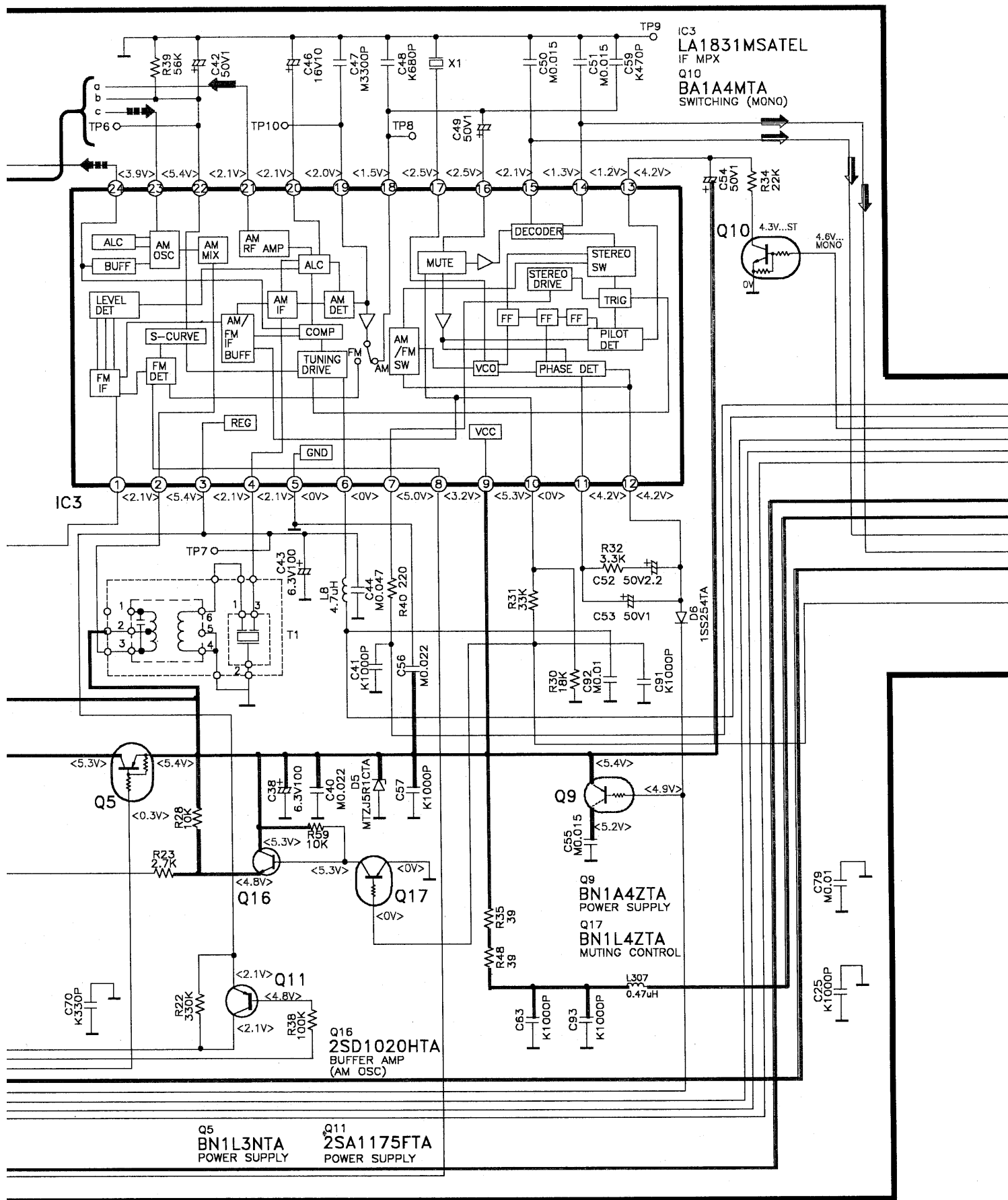
OPTICAL PICKUP

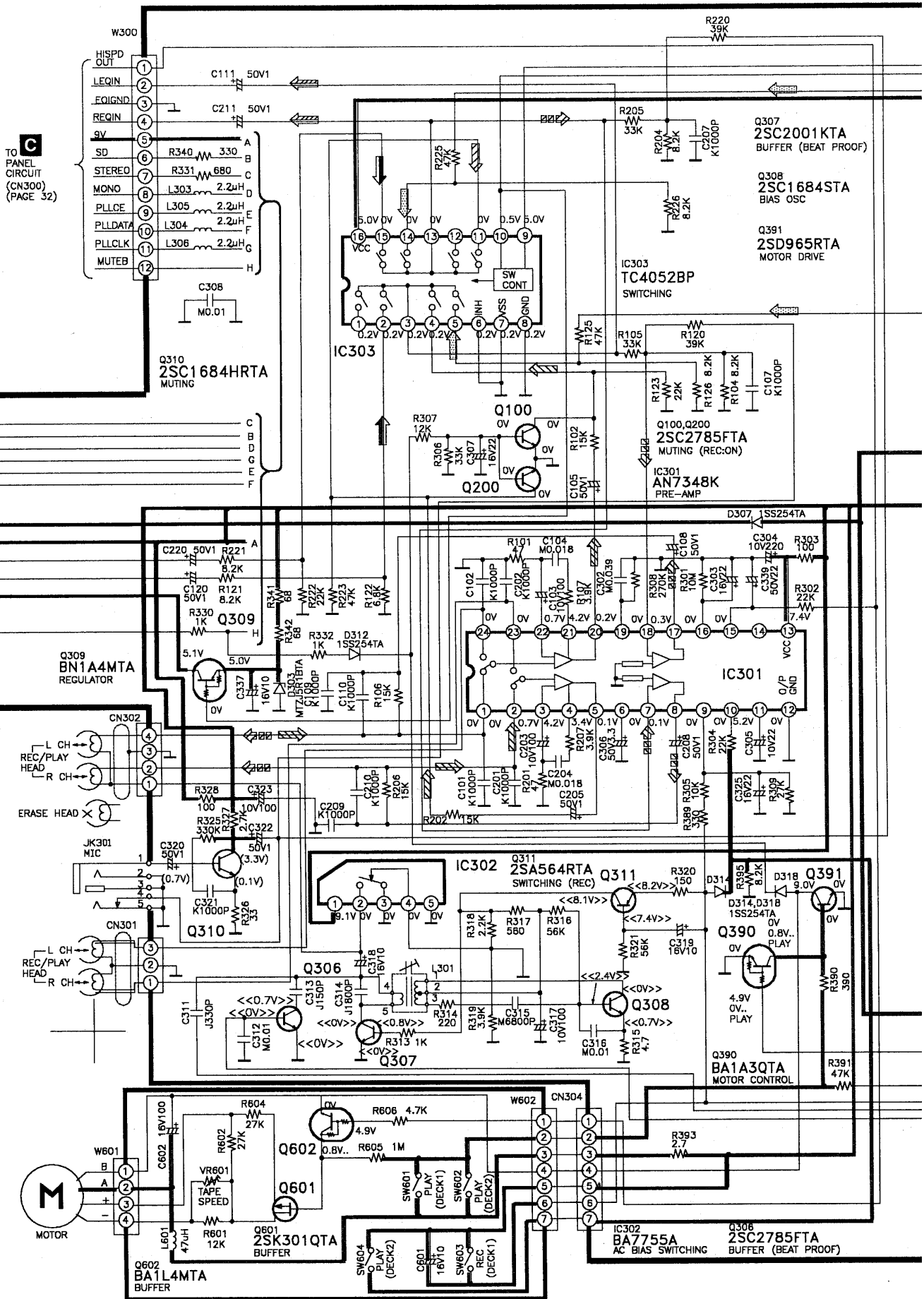




B MAIN CIRCUIT



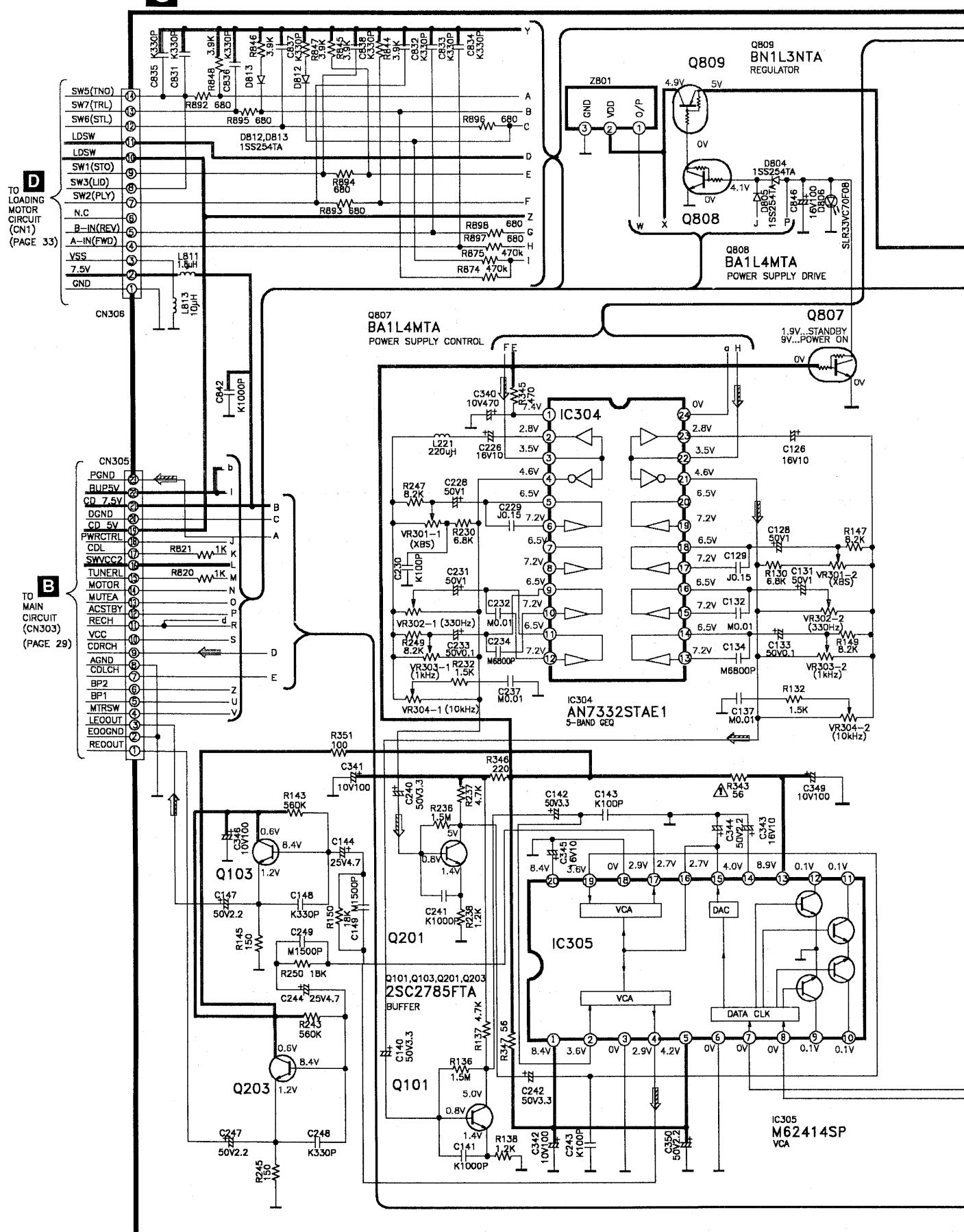


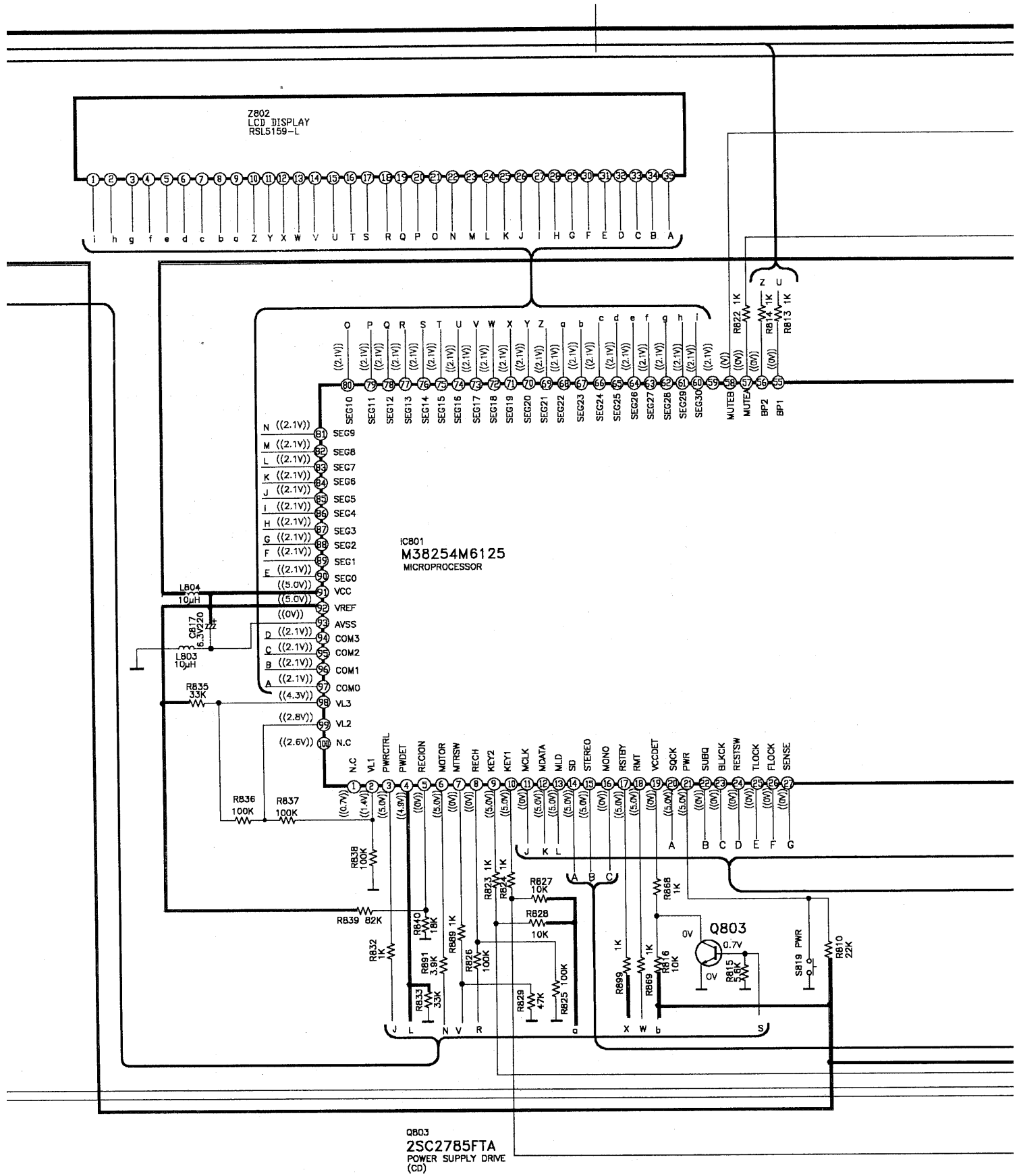


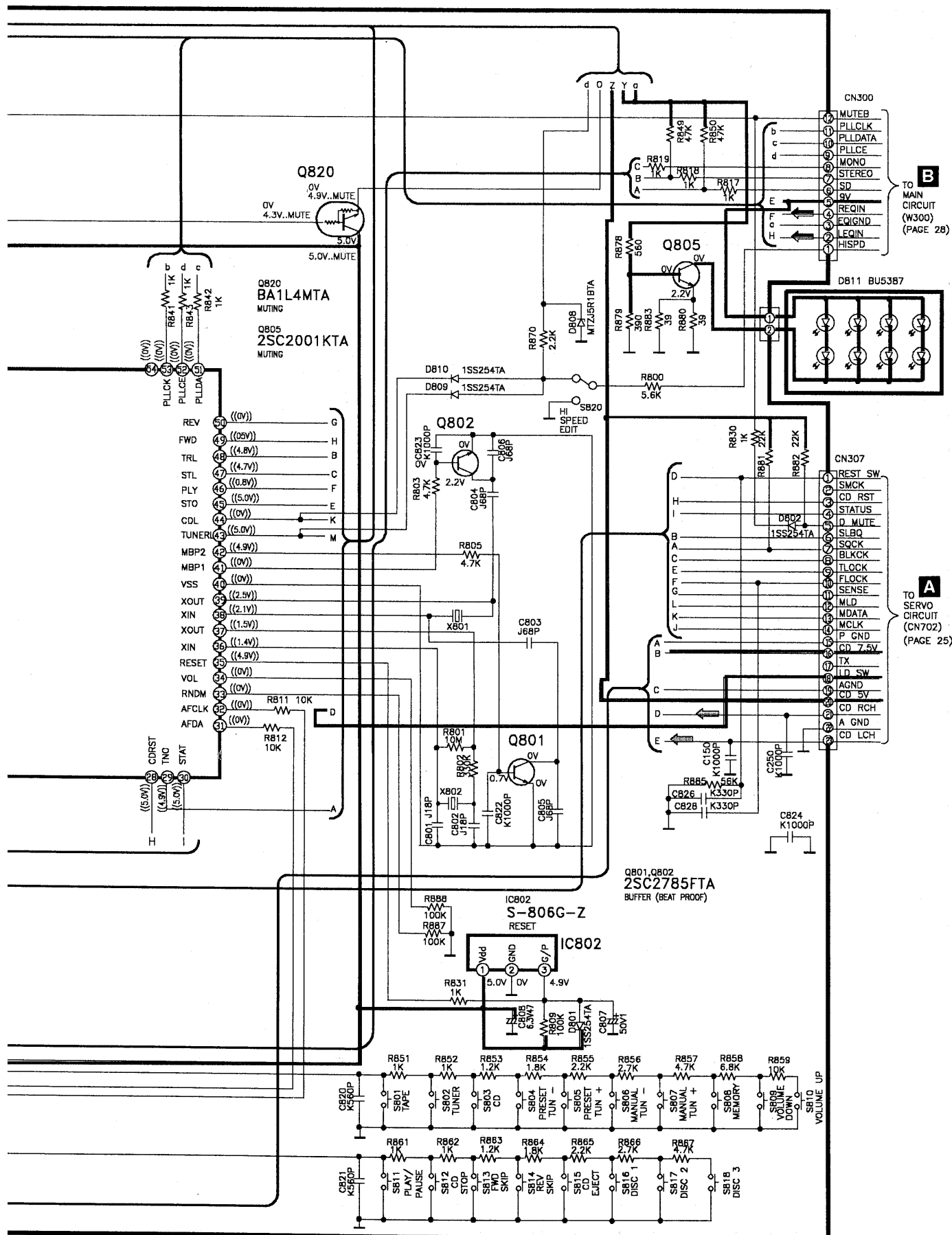
F DECK CIRCUIT



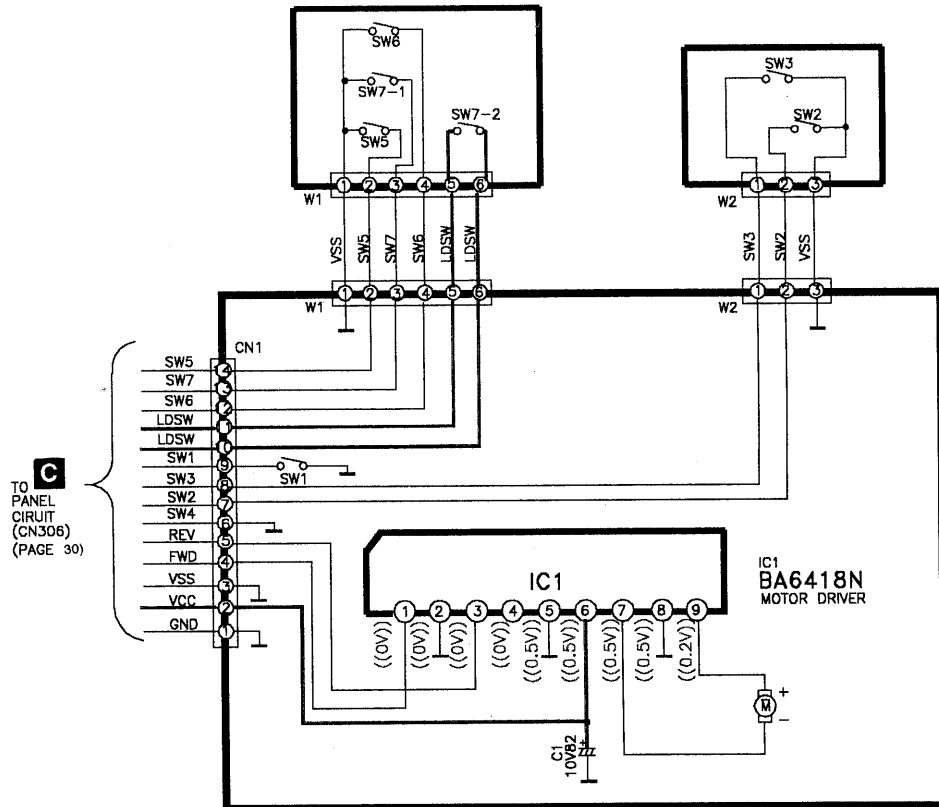
C PANEL CIRCUIT





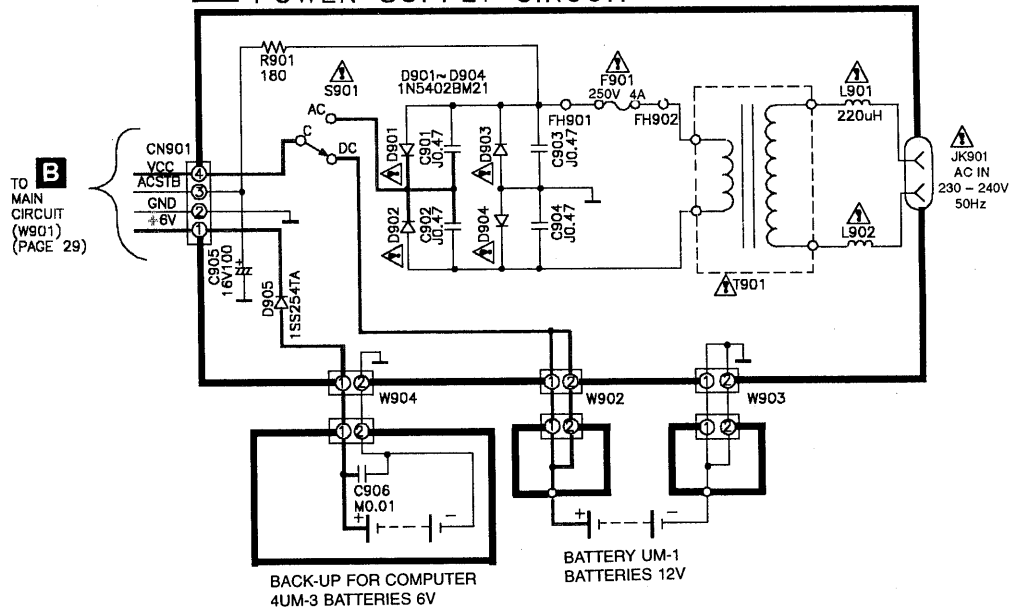


DETECTING SWITCH (1) CIRCUIT DETECTING SWITCH (2) CIRCUIT



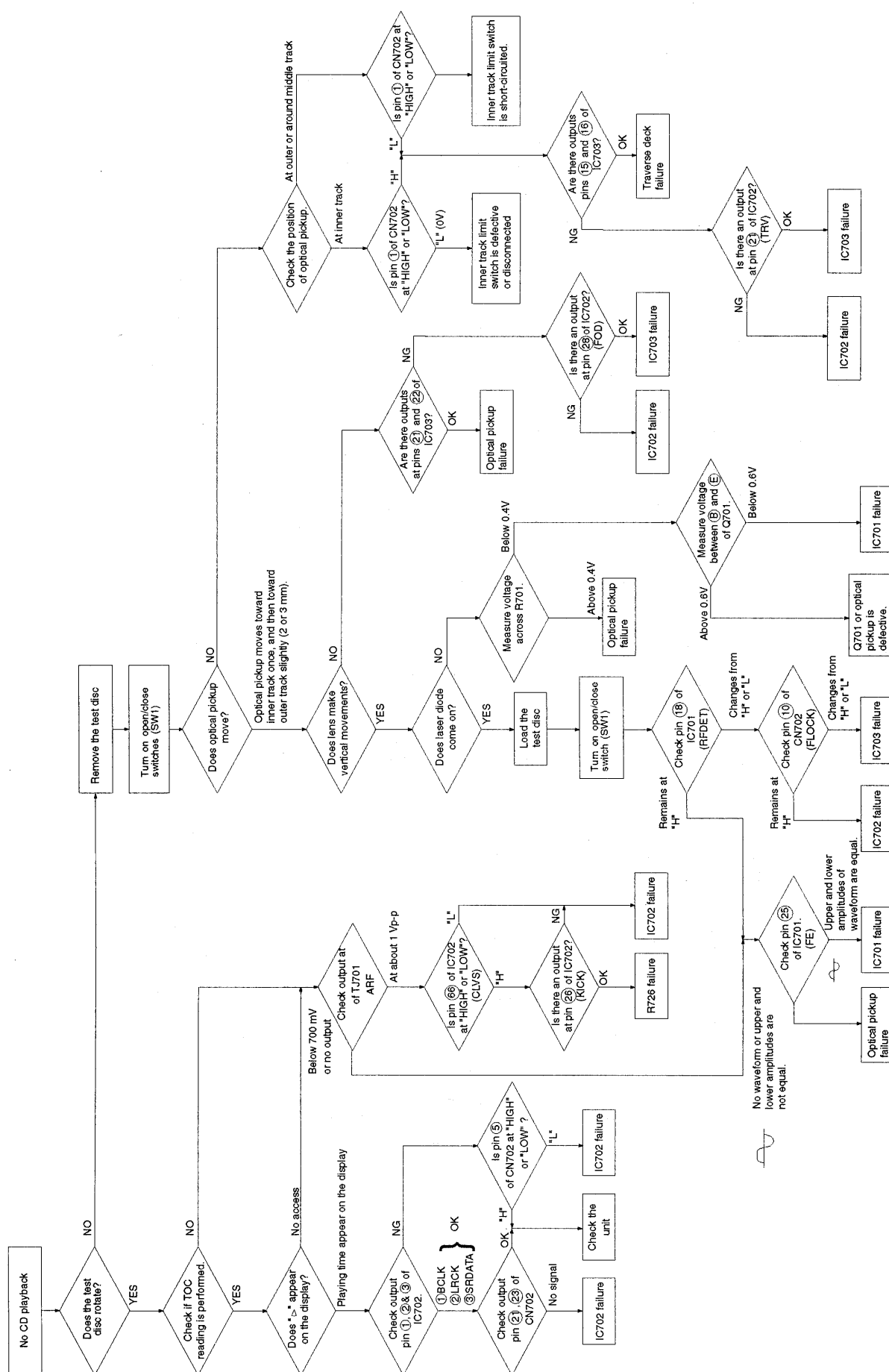
D LOADING MOTOR CIRCUIT

E POWER SUPPLY CIRCUIT



BATTERY CIRCUIT

■ Troubleshooting Guide



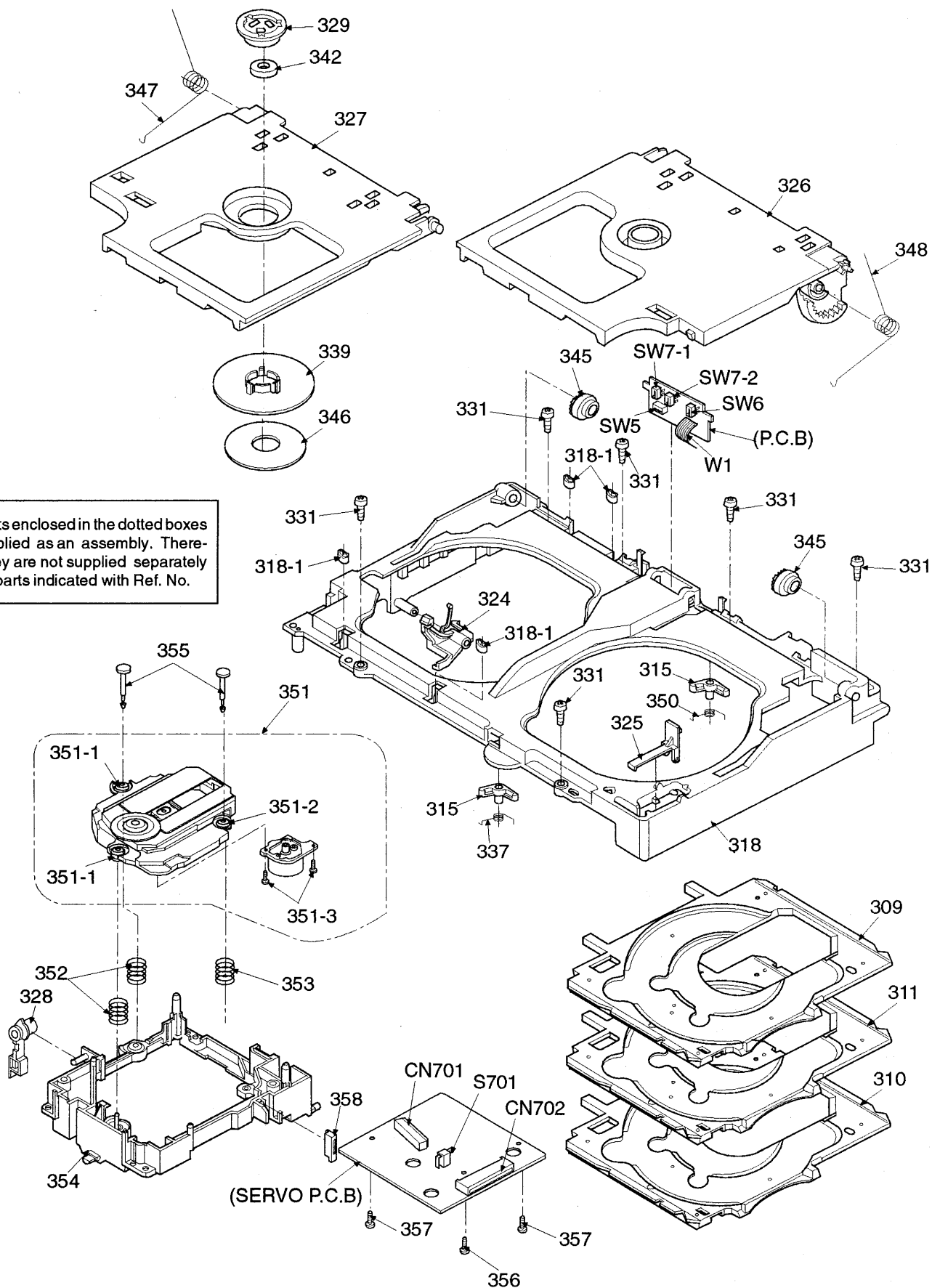
■ CD Loading Unit Parts List

Note : • [M] mark in Remarks column indicates parts that are supplied by MESA.
• Refer to **CD Loading Unit Parts Location** on pages 36 & 37.

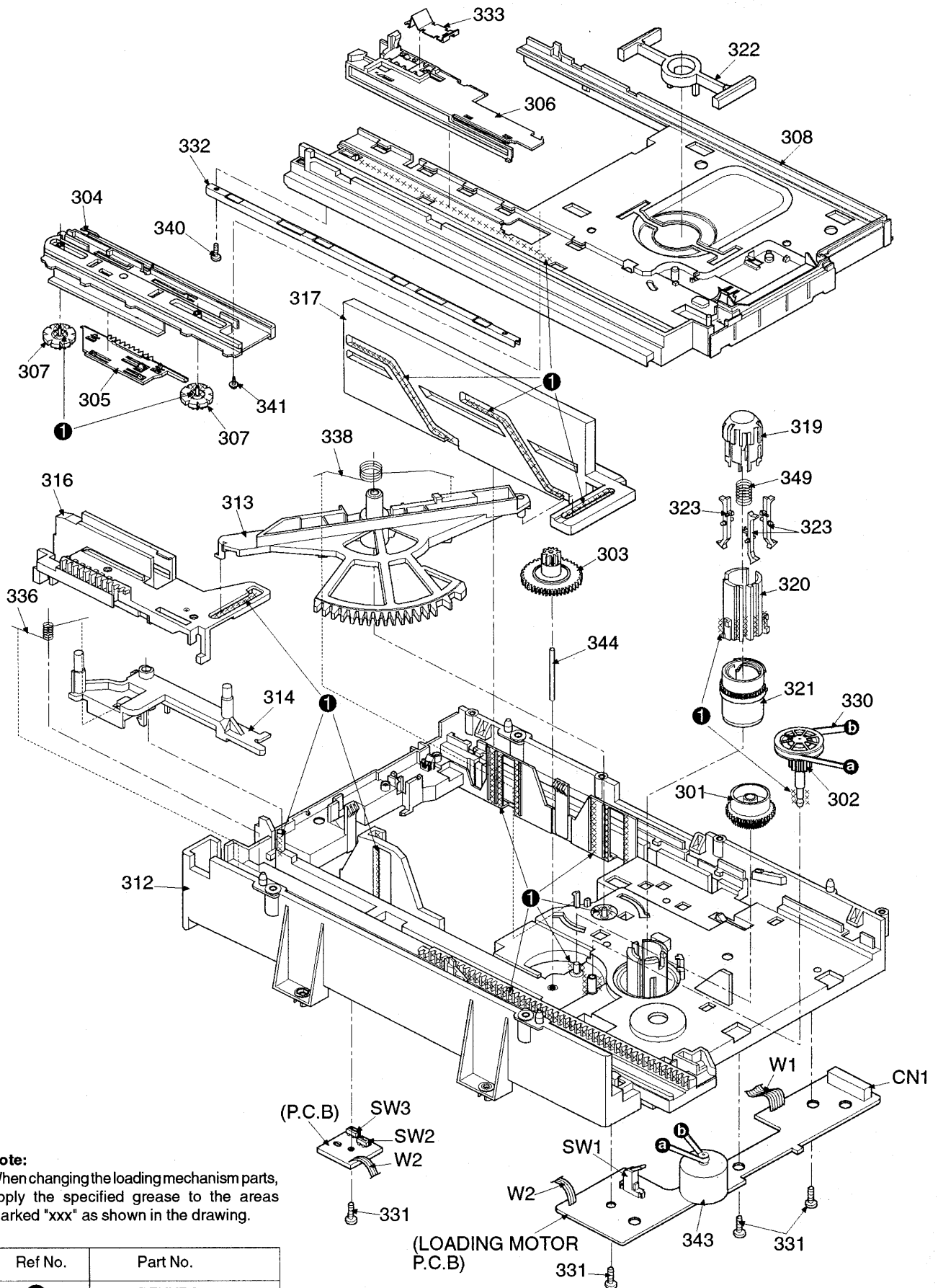
Ref No	Part No.	Part Name & Description	Remarks	Ref No	Part No.	Part Name & Description	Remarks	Ref No	Part No.	Part Name & Description	Remarks
		TRAVERSE DECK		345	RDG0183-L	DAMPER GEAR	[M]				
				346	RMF0188	CLAMPER SHEET					
301	RDG0309	RELAY GEAR	[M]	347	RME0175	L CD OPEN SPRING	[M]				
302	RDG0310	PULLEY GEAR	[M]	348	RME0176	R CD OPEN SPRING	[M]				
303	RDG0311	DRIVE GEAR	[M]	349	RME0177	DISC LOCK SPRING	[M]				
304	RMM0134	DRIVE RACK	[M]	350	RME0181	UP PREVENTION SP(R)	[M]				
305	RMM0135	CUSHION RACK	[M]	351	RAE0150Z	TRAVERSE UNIT					
306	RMM0136	CARRIER LEVER	[M]	351-1	SHGD113-1	FLOATING RUBBER(B)					
307	RDG0312	SPEED UP GEAR	[M]	351-2	SHGD112	FLOATING RUBBER(A)					
308	RFKRDS790PK1	TRAY BASE ASS'Y	[M]	351-3	SNSD38	SCREW					
309	RGQ0170-K	TRAY 1	[M]	352	RME0109	FLOATING SPRING A					
310	RGQ0171-K	TRAY 2	[M]	353	RME0142	FLOATING SPRING B					
311	RGQ0172-K	TRAY 3	[M]	354	RMK0293	TRAVERSE CHASSIS	[M]				
312	RFKRDS790PK2	MECHA BASE ASS'Y	[M]	355	RMS0123-1	FIXED PIN A					
313	RML0379	CHANGE LEVER	[M]	356	XTN2+6G	SCREW					
314	RML0380	LOCK LEVER	[M]	357	XTV2+6G	SCREW					
315	RML0384	UP PREVENTION LEVER	[M]	358	RMR0975-W	TRAVERSE CAP					
316	RMM0138	SLIDE PLATE LEVER(1)	[M]								
317	RMM0140	SLIDE PLATE LEVER(2)	[M]								
318	RFKNDS790PK1	MECHA COVER ASS'Y	[M]								
318-1	RMG0413-Q	RUBBER TUBE	[M]								
319	RMR0889-K	DISC UP LOCK PIN	[M]								
320	RMR0890-K	DISC DOWN LOCK PIN	[M]								
321	RDG0314	UP/DOWN GEAR LEVER	[M]								
322	RML0402	TRAY PUSH LEVER	[M]								
323	RML0386	DISC CLAMP LEVER	[M]								
324	RML0387	L OPEN LEVER	[M]								
325	RMR0891-K	R OPEN LEVER	[M]								
326	RFKKDS790PK3	R LID ASS'Y	[M]								
327	RMR0893-K	L LID	[M]								
328	RMR0898-K	STOPPER	[M]								
329	RMR0334	FIXED PLATE	[M]								
330	RDV0036	BELT	[M]								
331	XTB3+10JFZ	SCREW PB, LID									
332	RMA0868	SUPPORT ANGLE	[M]								
333	RMC0274	TRAY FOOK SPRING	[M]								
336	RME0170	LOCK LEVER SPRING	[M]								
337	RME0182	UP PREVENTION SPRING(L)	[M]								
338	RME0179	ASSIST SPRING	[M]								
339	RMR0789-K	MAGNET HOLDER LEVER	[M]								
340	XTN2+6F	SCREW SUPPORT ANGLE	[M]								
341	RHD20010	SCREW DRIVE RACK	[M]								
342	RHM245ZA	MAGNET	[M]								
343	RFKPD5790PK1	MOTOR ASS'Y	[M]								
344	RMS0503	DRIVE GEAR SHAFT	[M]								

CD Loading Unit Parts Location

Note : Refer to **CD Loading Unit Parts List** on page 35.

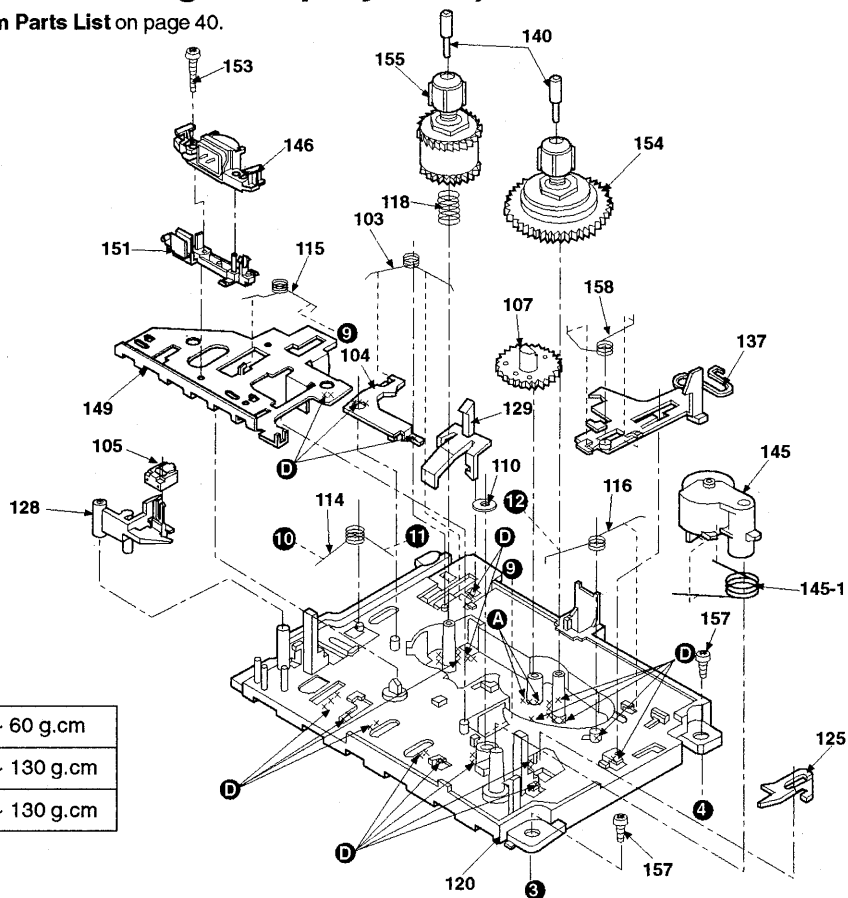


■ CD Loading Unit Parts Location



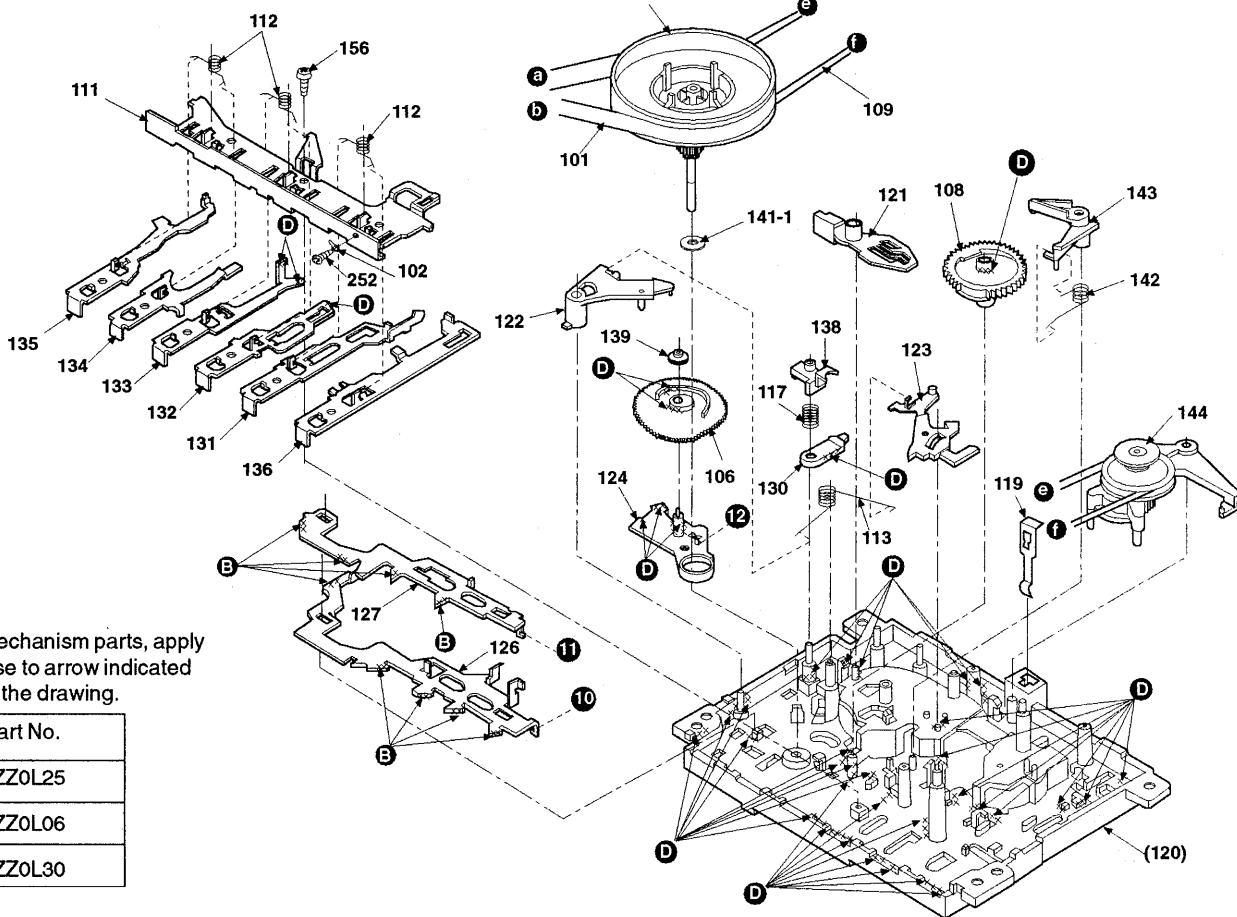
■ Mechanism Parts Location (RAA0906)

Note : Refer to **Mechanism Parts List** on page 40.



SPECIFICATION

Playback torque	25 ~ 60 g.cm
Fast forward torque	65 ~ 130 g.cm
Rewind torque	65 ~ 130 g.cm

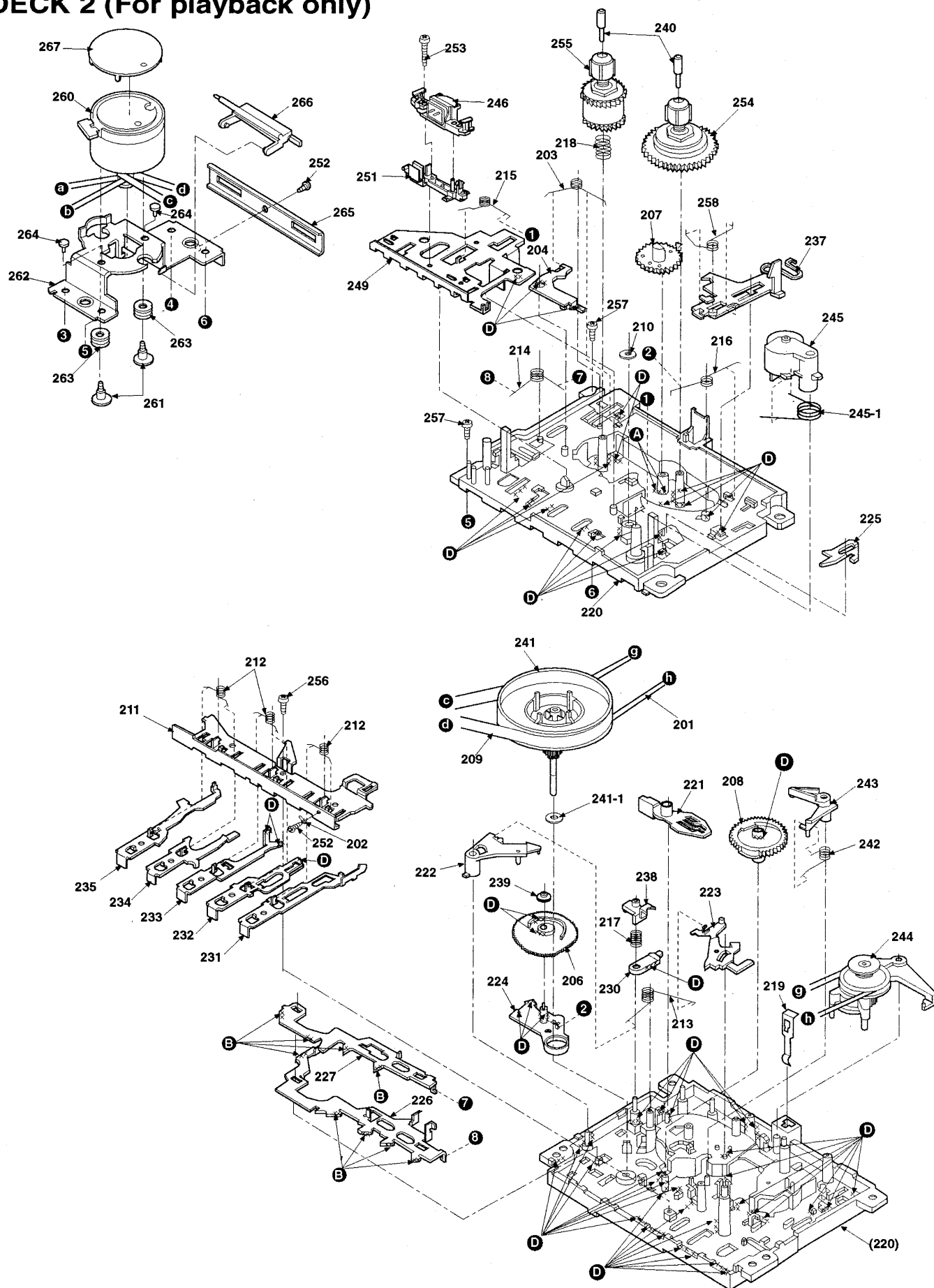


Note:

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

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

DECK 2 (For playback only)



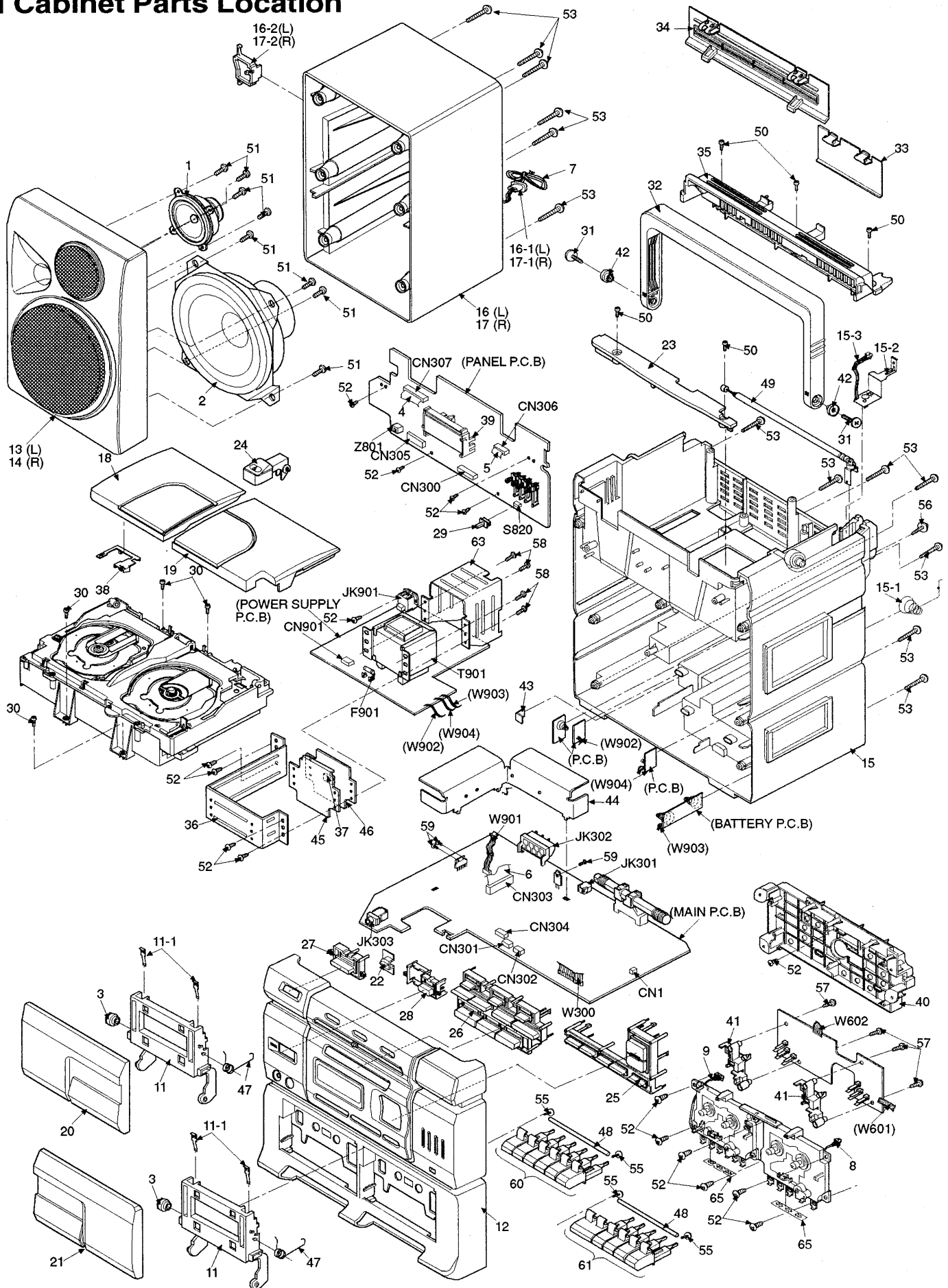
Mechanism Parts List

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

• Refer to **Mechanism Parts Location** on pages 38 & 39.


Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
		CASSETTE DECK 1									
101	RDV0007	MAIN BELT	[M]	143	RML0075	TRIGGER LEVER	[M]	232	RMM0024	REW ROD	[M]
102	RJR0033	EARTH LUG	[M]	144	RXP0014	RF CLUTCH ASS'Y	[M]	233	RMM0025	FF ROD	[M]
103	RMB0109-1	BRAKE SPRING	[M]	145	RXP0015	PINCH ROLLER ASS'Y	[M]	234	RMM0026	STOP ROD	[M]
104	RML0116	BRAKE	[M]	145-1	RMB0049	PINCH ARM SPRING	[M]	235	RMM0027	PAUSE ROD	[M]
105	RBR2CY009	E HEAD	[M]	146	RBR4CY016-M	R/P HEAD	[M]	237	RMM0029	EJECT SLIDE LEVER	[M]
106	RDG0057	IDLER GEAR	[M]	149	RMA0696	HEAD BASE ASS'Y	[M]	238	RMR0211	PAUSE BUSH	[M]
107	RDG0059	FF RELAY GEAR	[M]	151	RMQ0384	HEAD BASE	[M]	239	RMR0227	IDLER GEAR BUSH	[M]
108	RDK0005	CAM GEAR	[M]	152	XTN2+4F	EARTH LUG SCREW		240	RMS0055	REEL SHAFT	[M]
109	RDV0006-1	RF BELT	[M]	153	XTN2+14F	SCREW	[M]	241	RXF0012	FLYWHEEL ASS'Y	[M]
110	RHW16009	CAPSTAN WASHER	[M]	154	RXR0004	TAKE UP REEL ASS'Y	[M]	241-1	RHW21008	WASHER	[M]
111	RMA0109	BACK PLATE	[M]	155	RXR0005	SUPPLY REEL ASS'Y	[M]	242	RMB0044	TRIGGER SPRING	[M]
112	RMB0043-1	ROD OPERATION SP.	[M]	156	XTN2+6J	SCREW		243	RML0075	TRIGGER LEVER	[M]
113	RMB0045	AS SPRING	[M]	157	XTW26+6L	SCREW		244	RXP0014	RF CLUTCH ASSY	[M]
114	RMB0046-1	LOCK PLATE SPRING	[M]	158	RME0098-2	SPRING	[M]	245	RXP0015	PINCH ROLLER ASSY	[M]
115	RMB0047	HEAD PANEL SPRING	[M]					245-1	RMB0049	PINCH ARM SPRING	[M]
116	RMB0048	IDLER LEVER SPRING	[M]			CASSETTE DECK 2		246	RBR4CY016-M	R/P HEAD	[M]
117	RMB0053	PAUSE LEVER SPRING	[M]	201	RDV0009	MAIN BELT B	[M]	249	RMA0696	HEAD BASE ASS'Y	[M]
118	RMB0125	BACK TENSION SPRING	[M]	202	RJR0033	EARTH LUG	[M]	251	RMQ0383	HEAD BASE	[M]
119	RMC0061	SPRING	[M]	203	RMB0109-1	BRAKE SPRING	[M]	252	XTN2+4F	EARTH LUG SCREW	
120	RFKRC090P-K	CHASSIS ASS'Y	[M]	204	RML0116	BRAKE	[M]	253	XTN2+14F	SCREW	[M]
121	RML0071	SWAY LEVER	[M]	206	RDG0057	IDLER GEAR	[M]	254	RXR0004	TAKE UP REEL ASS'Y	[M]
122	RML0072	AS RELEASE LEVER	[M]	207	RDG0059	FF RELAY GEAR	[M]	255	RXR0005	SUPPLY REEL ASS'Y	[M]
123	RML0073-1	AS PROTECT LEVER	[M]	208	RDK0005	CAM GEAR	[M]	256	XTN2+6J	SCREW	
124	RML0074	IDLER LEVER	[M]	209	RDV0006-1	RF BELT	[M]	257	XTW26+6L	SCREW	
125	RML0076	EJ. SELECTION LEVER	[M]	210	RHW16009	CAPSTAN WASHER	[M]	258	RME0098-2	SPRING	[M]
126	RML0077	LOCK PLATE	[M]	211	RMA0109	BACK PLATE	[M]	260	RFKPDXT610PK	DC MOTOR ASS'Y	[M]
127	RML0078	FUNCTION PLATE	[M]	212	RMB0043-1	ROD OPERATION SP.	[M]	261	RHD26002	SCREW	
128	RML0080	E HEAD ARM	[M]	213	RMB0045	AS SPRING	[M]	262	RMA0122	ANGLE	[M]
129	RML0081-1	LEVER	[M]	214	RMB0046-1	LOCK PLATE SPRING	[M]	263	RMG0102	RUBBER SPACE	[M]
130	RML0082	PAUSE LEVER	[M]	215	RMB0047	HEAD PANEL SPRING	[M]	264	RMG0131	RUBBER SPACE	[M]
131	RMM0023	PLAY ROD	[M]	216	RMB0048	IDLER LEVER SPRING	[M]	265	RMA0121	ANGLE	[M]
132	RMM0024	REW ROD	[M]	217	RMB0053	PAUSE LEVER SPRING	[M]	266	RML0085	LEVER	[M]
133	RMM0025	FF ROD	[M]	218	RMB0125	BACK TENSION SPRING	[M]	267	RSCX0002	MECHA MOTOR SHIELD	[M]
134	RMM0026	STOP ROD	[M]	219	RMC0061	SPRING	[M]				
135	RMM0027	PAUSE ROD	[M]	220	RFKRC090P-K	CHASSIS ASS'Y	[M]				
136	RMM0028	REC ROD	[M]	221	RML0071	SWAY LEVER	[M]				
137	RMM0029	EJECT SLIDE LEVER	[M]	222	RML0072	AS RELEASE LEVER	[M]				
138	RMR0211	PAUSE BUSH	[M]	223	RML0073-1	AS PROTECT LEVER	[M]				
139	RMR0227	IDLER GEAR BUSH	[M]	224	RML0074	IDLER LEVER	[M]				
140	RMS0055	REEL SHAFT	[M]	225	RML0076	EJ. SELECTION LEVER	[M]				
141	RXF0012	FLYWHEEL ASS'Y	[M]	226	RML0077	LOCK PLATE	[M]				
141-1	RHW21008	WASHER	[M]	227	RML0078	FUNCTION PLATE	[M]				
142	RMB0044	TRIGGER SPRING	[M]	230	RML0082	PAUSE LEVER	[M]				
				231	RMM0023	PLAY ROD	[M]				

Cabinet Parts Location



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

- The parenthesized indications in the Remarks column specify the areas. (refer to the cover page for area.)
- Parts without these indications can be used for all areas.
- [M] indicates in Remarks column parts that are supplied by MESA.
- The "(SF)" mark denotes the standard part.
- Remote Control Unit :
Supply period for three years from terminal of production.
- **Warning** : This product uses a laser diode. Refer to caution statements on page 2.
- **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		30	RHD30048	CR5T SCREW	[M]	IC3	LA1831MSATEL	IC, IF MPX	
				31	RHD30062	HANDLE SCREW	[M]	IC301	AN7348K	IC, PRE-AMP DECK	[M]
1	EFBS10D49A3	TWEETER PLATE	[M]	32	RKH0032-H	HANDLE	[M]	IC302	BA7755A	IC, AC BIAS SWITCHING	
2	RAS12P03-F	WOOFER	[M]	33	RKK0035-H	BATTERY COVER(UM-3)	[M]	IC303	TC4052BP	IC, SWITCHING	[M]
3	RDG5874ZB	DAMPER GEAR	[M]	34	RKK2SZA-7	BATTERY COVER(UM-1)	[M]	IC304	AN7332STAE1	IC, 5-BAND GEQ	[M]
4	REEX0019-1	CONTROL TO CR5 WIRE	[M]	35	RKQ0188-H	TOP CABINET	[M]	IC305	M62414SP	IC, VCA	
5	REEX0020	CONTROL TO CR5 MOTOR	[M]	36	RMAX0023	TRANS. BRACKET	[M]	IC306	TA8205AH	IC, POWER AMP.	
6	REEX0021	MAIN TO CONTROL WIRE	[M]	37	RMGX0014	TRANS. SHIELD RUBBER	[M]	IC307	S81350HG-T	IC, 5V REGULATOR	[M]
7	REXX0089	SPEAKER CORD	[M]	38	RML0451	EMERGENCY EJECT LEVER	[M]	IC801	M38254M6125	IC, MICROPROCESSOR	[M]
8	REXX0130	TAPE HEAD WIRE(DECK2)	[M]	39	RMNX0013-W	LCD HOLDER	[M]	IC802	S-806G-Z	IC, RESET	[M]
9	REXX0131	TAPE HEAD WIRE(DECK1)	[M]	40	RMQX0011-K	MECHA CHASSIS	[M]				
11	RFKLXDT610PK	CASS. HOLDER ASS'Y	[M]	41	RMR0368	PCB CHASSIS	[M]			TRANSISTORS	
11-1	RUS757ZAA	TAPE SPRING	[M]	42	RMR0900-K	HANDLE PIECE	[M]				
12	RFKGD770EPK	FRONT CABINET ASS'Y	[M]	43	RMVX0026	PVC SHEET	[M]	Q1	2SC2785FTA	TRANSISTOR	
13	RFKGD770PK2	SP FRONT CAB ASS'Y(L)	[M]	44	RMVX0021	HEAT SINK	[M]	Q2	2SC2785FTA	TRANSISTOR	
14	RFKGD770PK3	SP FRONT CAB ASS'Y(R)	[M]	45	RSCX0022	TRANS SHIELD PLATE(1)	[M]	Q3	2SC2787FL1TA	TRANSISTOR	
15	RFKHDT770EPK	REAR CABINET ASS'Y	[M]	46	RSCX0023	TRANS SHIELD PLATE(2)	[M]	Q4	2SC2787LTA	TRANSISTOR	
15-1	RJC91006	BATT. TERMINAL	[M]	47	RUS781ZA	EJECT SPRING	[M]	Q5	BN1L3NTA	TRANSISTOR	[M]
15-2	RMAX0022	ANT. PLATE	[M]	48	SUX102	MECHA BUTTON SHAFT	[M]	Q6	2SJ40CDTA	TRANSISTOR	
15-3	REXX0134	ANTENNA PLATE WIRE	[M]	49	XEARR175ED-Y	ROD ANTENNA		Q7	2SJ40CDTA	TRANSISTOR	
16	RFKHDT770PK2	SP REAR CAB ASS'Y(L)	[M]	50	XTN3+12CFZ	SCREW(TOP CAB)		Q8	2SD1020HTA	TRANSISTOR	[M]
16-1	RMGX0012-K	CORD BUSHING	[M]	51	XTW3+10Q	SCREW(TWEETER)		Q9	BN1A4ZTA	TRANSISTOR	[M]
16-2	RMR0408	LOCK LEVER (L)	[M]	52	XTV3+12G	SCREW(CASS. MECHA)		Q10	BA1A4MTA	TRANSISTOR	[M]
17	RFKHDT770PK3	SP REAR CAB ASS'Y(R)	[M]	53	XTV3+20G	SCREW(CABINET)		Q11	2SA1175FTA	TRANSISTOR	[M]
17-1	RMGX0012-K	CORD BUSHING	[M]	55	XTWS3+8T	SCREW(MECHA BTN)		Q13	2SC2785FTA	TRANSISTOR	
17-2	RMR0407	LOCK LEVER (R)	[M]	56	XYN3+F8FY	SCREW(ROD ANT.)		Q14	BN1L3NTA	TRANSISTOR	[M]
18	RFKKDS750PK1	CD LID ASS'Y (L)	[M]	57	XTN2+14GF	SCREW(PCB)	[M]	Q16	2SD1020HTA	TRANSISTOR	[M]
19	RFKKDS750PK2	CD LID ASS'Y (R)	[M]	58	XTV3+8F	SCREW(SHIELD PLATE)		Q17	BA1L4ZTA	TRANSISTOR	[M]
20	RFKLD770PK1	CASS. LID ASS'Y (L)	[M]	59	XTW3+10F	SCREW(IC)		Q100	2SC2785FTA	TRANSISTOR	
21	RFKLD770PK2	CASS. LID ASS'Y (R)	[M]	60	RGZX0023A-H	MECHA BTN BLOCK(A)	[M]	Q101	2SC2785FTA	TRANSISTOR	
22	RGLX0005-Q	LED DISPERSE CAP	[M]	61	RGZX0023B-H	MECHA BTN BLOCK(B)	[M]	Q103	2SC2785FTA	TRANSISTOR	
23	RGQ0180-K	CD MECHA COVER	[M]	63	RSCX0024	TRANS. SHIELD PLATE	[M]	Q161	2SD1020HTA	TRANSISTOR	[M]
24	RGU1289-H	CD EJECT BUTTON	[M]	65	RMXX0004	MECHA SPACER	[M]	Q162	2SD1020HTA	TRANSISTOR	[M]
25	RGUX0154-H1	VOL/PRESET BUTTON	[M]					Q200	2SC2785FTA	TRANSISTOR	
26	RGUX0155-H	FUNCTION/CD BUTTON	[M]			INTEGRATED CIRCUITS		Q201	2SC2785FTA	TRANSISTOR	
27	RGUX0156-H	CD EJECT BUTTON	[M]					Q203	2SC2785FTA	TRANSISTOR	
28	RGUX0157-H	POWER BUTTON	[M]	IC1	TA7358FMATEL	IC, FM RF		Q261	2SD1020HTA	TRANSISTOR	[M]
29	RGVX0013-K	EDIT KNOB	[M]	IC2	LM7001M-TE-L	IC, PLL		Q262	2SD1020HTA	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
Q305	2SC2785FTA	TRANSISTOR		D316	MTZJ8R2CTA	DIODE	⚠	S808	EVQ21405R	SW, MEMORY	
Q306	2SC2785FTA	TRANSISTOR		D317	1SS254TA	DIODE		S809	EVQ21405R	SW, VOLUME -	
Q307	2SC2001KTA	TRANSISTOR		D318	1SS254TA	DIODE		S810	EVQ21405R	SW, VOLUME +	
Q308	2SC1684STA	TRANSISTOR		D320	1SS254TA	DIODE		S811	EVQ21405R	SW, PLAY/PAUSE	
Q309	BN1A4MTA	TRANSISTOR	[M]	D321	1SS254TA	DIODE		S812	EVQ21405R	SW, CD STOP	
Q310	2SC1684HRTA	TRANSISTOR		D801	1SS254TA	DIODE		S813	EVQ21405R	SW, FWD SKIP	
Q311	2SA564RTA	TRANSISTOR		D802	1SS254TA	DIODE		S814	EVQ21405R	SW, REV SKIP	
Q315	BN1L3NTA	TRANSISTOR	[M] ⚠	D804	1SS254TA	DIODE		S815	EVQ21405R	SW, CD EJECT	
Q316	BA1L4MTA	TRANSISTOR	[M]	D805	1SS254TA	DIODE		S816	EVQ21405R	SW, DISC 1	
Q317	BN1L3ZTA	TRANSISTOR	[M] ⚠	D806	SLR33VC70F08	DIODE	[M]	S817	EVQ21405R	SW, DISC 2	
Q318	2SB1566E	TRANSISTOR	[M] ⚠	D808	MTZJ5R1BTA	DIODE		S818	EVQ21405R	SW, DISC 3	
Q319	2SC2785FTA	TRANSISTOR	⚠	D809	1SS254TA	DIODE		S819	EVQ21405R	SW, POWER	
Q320	2SD592STA	TRANSISTOR	⚠	D810	1SS254TA	DIODE		S820	RSS2B010-J	SW, HI SPEED EDIT	
Q321	2SB621RTA	TRANSISTOR	⚠	D811	BU5387	DIODE	[M]	S901	RJ1SE01-1H	SW, AC IN (JK901)	⚠
Q322	2SC2785FTA	TRANSISTOR	⚠	D812	1SS254TA	DIODE					
Q323	2SC2785FTA	TRANSISTOR	⚠	D813	1SS254TA	DIODE				CONNECTORS	
Q324	BN1L3NTA	TRANSISTOR	[M]	D901	1N5402BM21	DIODE	⚠				
Q390	BA1A3QTA	TRANSISTOR	[M]	D902	1N5402BM21	DIODE	⚠	CN1	RJP2G18ZA	2-PIN CONNECTOR	
Q391	2SD965RTA	TRANSISTOR		D903	1N5402BM21	DIODE	⚠	CN300	RJS1A5212	12-PIN CONNECTOR	[M]
Q601	2SK301QTA	TRANSISTOR	[M]	D904	1N5402BM21	DIODE	⚠	CN301	RJP3G18ZA	3 PIN CONNECTOR	
Q602	BA1L4MTA	TRANSISTOR	[M]	D905	1SS254TA	DIODE		CN302	RJP4G18ZA	4-PIN CONNECTOR	
Q801	2SC2785FTA	TRANSISTOR						CN303	RJS1A6823	FFC CONNECTOR	
Q802	2SC2785FTA	TRANSISTOR				VARIABLE RESISTORS		CN304	RJP7G4YA	7 PIN CONNECTOR	
Q803	2SC2785FTA	TRANSISTOR						CN305	RJS1A6723-Q	23 PIN CONNECTOR	
Q805	2SC2001KTA	TRANSISTOR		VR301	EWAJSDV06G54	VR, XBASS	[M]	CN306	RJS1A6814	14 PIN CONNECTOR	
Q807	BA1L4MTA	TRANSISTOR	[M]	VR302	EWAJQDV06G54	VR, GEQ SLIDE(330Hz)	[M]	CN307	RJS1A6823	FFC CONNECTOR	
Q808	BA1L4MTA	TRANSISTOR	[M]	VR303	EWAJQDV06G54	VR, GEQ SLIDE(1kHz)	[M]	CN901	RJP4G4YA	4 PIN CONNECTOR	
Q809	BN1L3NTA	TRANSISTOR	[M]	VR304	EWAJQDV06G54	VR, GEQ SLIDE(10kHz)	[M]				
Q820	BA1L4MTA	TRANSISTOR	[M]	VR601	EVNDXAA00B24	VR, TAPE SPEED				COILS & TRANSFORMERS	
		DIODES				TRIMMERS					
D1	KV1360NT	DIODE		CT1	RCV10AF1T-S	TRIMMER CAPACITOR		L2	RLV6C006-0Z	FM ANT	[M]
D2	MTZJ7R5CTA	DIODE		CT2	ECRLA020E53R	TRIMMER CAPACITOR		L3	RL02B007-T	MW OSC COIL	
D3	KV1581A3	DIODE						L5	RLQZP8R2JT-Y	COIL	
D4	KV1360NT	DIODE				SWITCHES		L6	RLQA101JT-D	RF CHOKE COIL	[M]
D5	MTZJ5R1CTA	DIODE	[M]					L8	RLQZP4R7KT-Y	AXIAL COIL	
D6	1SS254TA	DIODE		S601	RSH1A013-2I	SW, PLAY (DECK 1)	[M]	L9	RLQZP4R7KT-Y	RF CHOKE COIL	
D303	MTZJ5R1BTA	DIODE		S602	RSH1A013-2I	SW, PLAY (DECK 2)	[M]	L10	RLQZP4R7KT-Y	AXIAL COIL	
D305	MTZJ9R1CTA	DIODE		S603	RSH1A004-1	SW, REC (DECK 1)	[M]	L11	RL01B003-T	LW OSC COIL	
D306	1SS254TA	DIODE		S604	RSH1A004-1	SW, PLAY (DECK 2)	[M]	L221	RLQZP221KT-Y	TUBULAR CAPACITOR	
D307	1SS254TA	DIODE		S801	EVQ21405R	SW, TAPE		L301	RL09B17-T	AC BIAS OSC COIL	
D308	1SS254TA	DIODE		S802	EVQ21405R	SW, TUNER		L303	RLQZP2R2KT-Y	RF CHOKE COIL	
D309	1SS254TA	DIODE		S803	EVQ21405R	SW, CD		L304	RLQZP2R2KT-Y	RF CHOKE COIL	
D310	MTZJ12BTA	DIODE	⚠	S804	EVQ21405R	SW, PRESET -		L305	RLQZP2R2KT-Y	RF CHOKE COIL	
D312	1SS254TA	DIODE		S805	EVQ21405R	SW, PRESET +		L306	RLQZP2R2KT-Y	RF CHOKE COIL	
D314	1SS254TA	DIODE		S806	EVQ21405R	SW, TUNING -		L307	RLQZP4R7KT-Y	RF CHOKE COIL	
D315	MTZJ12BTA	DIODE	⚠	S807	EVQ21405R	SW, TUNING +		L601	RLQZB470KT-D	RF CHOKE COIL	
								L803	RLQZP100KT-Y	INDUCTOR	
								L804	RLQZP100KT-Y	INDUCTOR	

Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
L811	RLQZB1R8KT-D	INDUCTOR				PACKING MATERIALS				CONNECTORS	
L813	RLQZP100KT-Y	INDUCTOR									
L901	RLQZB220KT-D	RF CHOKE COIL	⚠	P1	RPGX0329	GIFT BOX	[M]	CN701	RJU035T016-1	16P FFC CONNECTOR	
L902	RLL500050T-Y	RF CHOKE COIL	⚠	P2	RPH3SZA	MIRAMAT SHEET	[M]	CN702	RJS1A6723-1Q	23P FFC CONNECTOR	
T1	RLI2Z012-T	AM IFT		P3	RPNX0052	POLYFOAM	[M]				
T2	RLI4B018-T	FM DET COIL								OSCILLATOR	
T901	RTP1L1B008-X	POWER TRANSFORMER	[M] ⚠			ACCESSORIES					
		COMPONENT COMBINATION		A1	EUR643824	REMOTE CONTROL	[M]	X701	RSXZ16M9M01T	CERAMIC OSC	
				A1-1	UR64EC1638-1	R/C BATTERY COVER	[M]				
Z1	RCRBMT002-H	BPF		A2	RQT3292-Q	INSTRUCTION MANUAL	[M]				
Z801	RCDHC-278N	REMO-CON SENSOR		A3	RJA0019-2K	AC CORD	(SF) ⚠				
Z802	RSL5159-L	LCD	[M]								
						<LOADING MOTOR>					
		CERAMIC FILTERS				INTEGRATED CIRCUITS					
CF1	RLFFETWLA02D	FM IF CF		IC1	BA6418N	IC, DRIVER					
CF2	RLFFETWLA02D	FM IF CF									
						SWITCHES					
		OSCILLATORS									
				SW1	RSH1A005	SW, LEAF					
X1	RSXZ456KM01	CERALOCK		SW2	RSH1A032-U	SW, MECHA					
X2	RSXC7M20S04T	XTAL 7.2MHZ		SW3	RSH1A032-U	SW, MECHA					
X801	EF0EN4194T4	4.194MHZ RESONATOR	[M]	SW5	RSH1A032-U	SW, MECHA					
X802	RSXD32K7L01	CRYSTAL RESONATOR	[M]	SW6	RSH1A032-U	SW, MECHA					
				SW7-1	RSH1A032-U	SW, MECHA					
		FUSE		SW7-2	RSH1A032-U	SW, MECHA					
F901	XBA2C40TB0	FUSE	⚠			CONNECTOR					
		FUSE HOLDERS		CN1	RJS1A6714	14P CONNECTOR					
FH901	RJR0169T	FUSE HOLDER	[M]			< SERVO P.C.B. >					
FH902	RJR0169T	FUSE HOLDER	[M]			INTEGRATED CIRCUITS					
		JACKS		IC701	AN8835SBE1	IC, SERVO AMP.					
				IC702	MN662741RPA	IC, DIGITAL LSI					
JK301	RJJ1D25ZA-C	JK, MIC		IC703	AN8389SE1	IC, COIL/MOTOR DRIVE					
JK302	RJF1098ZA-H	JK, SPEAKER	[M]								
JK303	RJJ37TK01-1C	JK, HEADPHONE				TRANSISTOR					
JK901	RJJ1SE01-1H	JK, AC IN	⚠								
				Q701	2SB709S	TRANSISTOR					
		WIRES									
						SWITCH					
W300	RMR0321	12-PIN WIRE HOLDER	[M]								
W602	REXX0132	DECK WIRE	[M]	S701	RSM0006-P	SW, RESET					

Resistors & Capacitors

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

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

Parts without these indications can be used for all areas.

- 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			R41	ERDS2TJ561T	560 1/4W	R201	ERDS2TJ470T	47 1/4W	R313	ERDS2TJ102T	1K 1/4W
			R42	ERDS2TJ222T	2.2K 1/4W	R202	ERDS2TJ153T	15K 1/4W	R314	ERDS2TJ221T	220 1/4W
R1	ERDS2TJ104T	100K 1/4W	R43	ERDS2TJ222T	2.2K 1/4W	R204	ERDS2TJ822T	8.2K 1/4W	R315	ERDS2TJ4R7T	4.7 1/4W
R2	ERDS2TJ152T	1.5K 1/4W	R44	ERDS2TJ222T	2.2K 1/4W	R205	ERDS2TJ333T	33K 1/4W	R316	ERDS2TJ563T	56K 1/4W
R3	ERDS2TJ104T	100K 1/4W	R45	ERDS2TJ105T	1M 1/4W	R206	ERDS2TJ153T	15K 1/4W	R317	ERDS2TJ561T	560 1/4W
R4	ERDS2TJ103T	10K 1/4W	R48	ERDS2TJ390T	39 1/4W	R207	ERDS2TJ392T	3.9K 1/4W	R318	ERDS2TJ222T	2.2K 1/4W
R5	ERDS2TJ104T	100K 1/4W	R51	ERDS2TJ104T	100K 1/4W	R220	ERDS2TJ393T	39K 1/4W	R319	ERDS2TJ392T	3.9K 1/4W
R6	ERDS2TJ102T	1K 1/4W	R52	ERDS2TJ103T	10K 1/4W	R221	ERDS2TJ822T	8.2K 1/4W	R320	ERDS2TJ151T	150 1/4W
R7	ERDS2TJ330T	33 1/4W	R53	ERDS2TJ104T	100K 1/4W	R222	ERDS2TJ682T	6.8K 1/4W	R321	ERDS2TJ563T	56K 1/4W
R8	ERDS2TJ332T	3.3K 1/4W	R59	ERDS2TJ103T	10K 1/4W	R223	ERDS2TJ223T	22K 1/4W	R325	ERDS2TJ334T	330K 1/4W
R9	ERDS2TJ102T	1K 1/4W	R81	ERDS2TJ470T	47 1/4W	R225	ERDS2TJ473T	47K 1/4W	R326	ERDS2TJ330T	33 1/4W
R10	ERDS2TJ101T	100 1/4W	R101	ERDS2TJ470T	47 1/4W	R226	ERDS2TJ822T	8.2K 1/4W	R327	ERDS2TJ272T	2.7K 1/4W
R11	ERDS2TJ151T	150 1/4W	R102	ERDS2TJ153T	15K 1/4W	R230	ERDS2TJ682T	6.8K 1/4W	R328	ERDS2TJ101T	100 1/4W
R12	ERDS2TJ103T	10K 1/4W	R104	ERDS2TJ822T	8.2K 1/4W	R232	ERDS2TJ152T	1.5K 1/4W	R330	ERDS2TJ102T	1K 1/4W
R13	ERDS2TJ104T	100K 1/4W	R105	ERDS2TJ333T	33K 1/4W	R236	ERDS2TJ155T	1.5M 1/4W	R331	ERDS2TJ681T	680 1/4W
R14	ERDS2TJ471T	470 1/4W	R106	ERDS2TJ153T	15K 1/4W	R237	ERDS2TJ472T	4.7K 1/4W	R332	ERDS2TJ102T	1K 1/4W
R15	ERDS2TJ102T	1K 1/4W	R107	ERDS2TJ392T	3.9K 1/4W	R238	ERDS2TJ122T	1.2K 1/4W	R340	ERDS2TJ331T	330 1/4W
R16	ERDS2TJ102T	1K 1/4W	R120	ERDS2TJ393T	39K 1/4W	R243	ERDS2TJ564T	560K 1/4W	R341	ERDS2TJ680T	68 1/4W
R17	ERDS2TJ334T	330K 1/4W	R121	ERDS2TJ822T	8.2K 1/4W	R245	ERDS2TJ151T	150 1/4W	R342	ERDS2TJ680T	68 1/4W
R18	ERDS2TJ331T	330 1/4W	R122	ERDS2TJ682T	6.8K 1/4W	R247	ERDS2TJ822T	8.2K 1/4W	R343	ERDS1FVJ560T	56 1/2W 
R20	ERDS2TJ103T	10K 1/4W	R123	ERDS2TJ223T	22K 1/4W	R249	ERDS2TJ822T	8.2K 1/4W	R345	ERDS2TJ471T	470 1/4W
R21	ERDS2TJ103T	10K 1/4W	R125	ERDS2TJ473T	47K 1/4W	R250	ERDS2TJ183T	18K 1/4W	R346	ERDS2TJ221T	220 1/4W
R22	ERDS2TJ334T	330K 1/4W	R126	ERDS2TJ822T	8.2K 1/4W	R260	ERDS2TJ471T	470 1/4W	R347	ERDS2TJ560T	56 1/4W
R23	ERDS2TJ272T	2.7K 1/4W	R130	ERDS2TJ682T	6.8K 1/4W	R261	ERDS2TJ681T	680 1/4W	R351	ERDS2TJ101T	100 1/4W
R24	ERDS2TJ103T	10K 1/4W	R132	ERDS2TJ152T	1.5K 1/4W	R262	ERDS2TJ472T	4.7K 1/4W	R359	ERDS2TJ563T	56K 1/4W
R25	ERDS2TJ103T	10K 1/4W	R136	ERDS2TJ155T	1.5M 1/4W	R263	ERDS2TJ1R5T	1.5 1/4W	R361	ERDS2TJ102T	1K 1/4W
R26	ERDS2TJ103T	10K 1/4W	R137	ERDS2TJ472T	4.7K 1/4W	R264	ERDS2TJ1R5T	1.5 1/4W	R364	ERDS2TJ562T	5.6K 1/4W
R27	ERDS2TJ103T	10K 1/4W	R138	ERDS2TJ122T	1.2K 1/4W	R265	ERDS2TJ101T	100 1/4W	R365	ERDS2TJ122T	1.2K 1/4W
R28	ERDS2TJ103T	10K 1/4W	R143	ERDS2TJ564T	560K 1/4W	R266	ERDS2TJ681T	680 1/4W	R366	ERDS2TJ1R0T	1 1/4W
R29	ERDS2TJ331T	330 1/4W	R145	ERDS2TJ151T	150 1/4W	R301	ERDS2TJ106T	10M 1/4W	R367	ERDS2TJ1R0T	1 1/4W
R30	ERDS2TJ183T	18K 1/4W	R147	ERDS2TJ822T	8.2K 1/4W	R302	ERDS2TJ223T	22K 1/4W	R368	ERDS2TJ103T	10K 1/4W
R31	ERDS2TJ333T	33K 1/4W	R149	ERDS2TJ822T	8.2K 1/4W	R303	ERDS2TJ101T	100 1/4W	R369	ERDS2TJ101T	100 1/4W
R32	ERDS2TJ332T	3.3K 1/4W	R150	ERDS2TJ183T	18K 1/4W	R304	ERDS2TJ223T	22K 1/4W	R370	ERDS2TJ331T	330 1/4W
R34	ERDS2TJ223T	22K 1/4W	R160	ERDS2TJ471T	470 1/4W	R305	ERDS2TJ103T	10K 1/4W	R371	ERDS2TJ681T	680 1/4W
R35	ERDS2TJ390T	39 1/4W	R161	ERDS2TJ681T	680 1/4W	R306	ERDS2TJ333T	33K 1/4W	R372	ERDS2TJ103T	10K 1/4W
R36	ERDS2TJ104T	100K 1/4W	R162	ERDS2TJ472T	4.7K 1/4W	R307	ERDS2TJ123T	12K 1/4W	R373	ERDS2TJ331T	330 1/4W
R37	ERDS2TJ153T	15K 1/4W	R163	ERDS2TJ1R5T	1.5 1/4W	R308	ERDS2TJ274T	270K 1/4W	R374	ERDS2TJ122T	1.2K 1/4W
R38	ERDS2TJ104T	100K 1/4W	R164	ERDS2TJ1R5T	1.5 1/4W	R309	ERDS2TJ273T	27K 1/4W	R375	ERDS2TJ472T	4.7K 1/4W
R39	ERDS2TJ563T	56K 1/4W	R165	ERDS2TJ101T	100 1/4W	R311	ERDS2TJ392T	3.9K 1/4W	R378	ERDS2TJ101T	100 1/4W
R40	ERDS2TJ221T	220 1/4W	R166	ERDS2TJ681T	680 1/4W	R312	ERDS2TJ392T	3.9K 1/4W	R379	ERDS2TJ103T	10K 1/4W

Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks
R380	ERDS2TJ472T	4.7K 1/4W	R833	ERDS2TJ333T	33K 1/4W	R889	ERDS2TJ102T	1K 1/4W	C41	ECBT1H102KB5	1000P 50V
R381	ERDS2TJ333T	33K 1/4W	R835	ERDS2TJ333T	33K 1/4W	R891	ERDS2TJ392T	3.9K 1/4W	C42	ECEA1HKA010B	1 50V
R382	ERDS2TJ103T	10K 1/4W	R836	ERDS2TJ104T	100K 1/4W	R892	ERDS2TJ681T	680 1/4W	C43	ECEA0JU101B	100 6.3V
R383	ERDS2TJ183T	18K 1/4W	R837	ERDS2TJ104T	100K 1/4W	R893	ERDS2TJ681T	680 1/4W	C44	ECFR1C473MR	0.047 16V
R384	ERDS2TJ102T	1K 1/4W	R838	ERDS2TJ104T	100K 1/4W	R894	ERDS2TJ681T	680 1/4W	C45	ECFR1C103MR	0.01 16V
R385	ERDS2TJ562T	5.6K 1/4W	R839	ERDS2TJ823T	82K 1/4W	R895	ERDS2TJ681T	680 1/4W	C46	ECEA1CKA100B	10 16V
R386	ERDS2TJ102T	1K 1/4W	R840	ERDS2TJ183T	18K 1/4W	R896	ERDS2TJ681T	680 1/4W	C47	ECBT1C332MR5	3300P 16V
R387	ERDS2TJ224T	220K 1/4W	R841	ERDS2TJ102T	1K 1/4W	R897	ERDS2TJ681T	680 1/4W	C48	ECBT1H681KB5	680P 50V
R388	ERDS2TJ563T	56K 1/4W	R842	ERDS2TJ102T	1K 1/4W	R898	ERDS2TJ681T	680 1/4W	C49	ECEA1HKA010B	1 50V
R389	ERDS2TJ331T	330 1/4W	R843	ERDS2TJ102T	1K 1/4W	R899	ERDS2TJ102T	1K 1/4W	C50	ECFR1C153MR	0.015 16V
R390	ERDS2TJ391T	390 1/4W	R844	ERDS2TJ392T	3.9K 1/4W	R901	ERDS2TJ181T	180 1/4W	C51	ECFR1C153MR	0.015 16V
R391	ERDS2TJ473T	47K 1/4W	R845	ERDS2TJ392T	3.9K 1/4W				C52	ECEA1HKA2R2B	2.2 50V
R393	ERDS2TJ2R7T	2.7 1/4W	R846	ERDS2TJ392T	3.9K 1/4W		CAPACITORS		C53	ECEA1HKA010B	1 50V
R395	ERDS2TJ822T	8.2K 1/4W	R847	ERDS2TJ392T	3.9K 1/4W				C54	ECEA1HKA010B	1 50V
R601	ERDS2TJ123T	12K 1/4W	R848	ERDS2TJ392T	3.9K 1/4W	C1	ECBT1H4R7KC5	4.7P 50V	C55	ECBT0J153MS5	0.015 6.3V
R602	ERDS2TJ273T	27K 1/4W	R849	ERDS2TJ473T	47K 1/4W	C2	ECBT1H102KB5	1000P 50V	C56	ECFR1C223MR	0.022 16V
R604	ERDS2TJ273T	27K 1/4W	R850	ERDS2TJ473T	47K 1/4W	C3	ECBT1C332MR5	3300P 16V	C57	ECBT1H102KB5	1000P 50V
R605	ERDS2TJ105T	1M 1/4W	R851	ERDS2TJ102T	1K 1/4W	C4	ECEA1HN010SB	1 50V	C58	ECBT1H331KB5	330P 50V
R606	ERDS2TJ472T	4.7K 1/4W	R852	ERDS2TJ102T	1K 1/4W	C5	ECBT1C103MS5	0.01 16V	C59	ECBT1H471KB5	470P 50V
R800	ERDS2TJ562T	5.6K 1/4W	R853	ERDS2TJ122T	1.2K 1/4W	C6	ECBT1H102KB5	1000P 50V	C61	ECBT1C103MS5	0.01 16V
R801	ERDS2TJ106T	10M 1/4W	R854	ERDS2TJ182T	1.8K 1/4W	C8	ECBT1H102KB5	1000P 50V	C63	ECBT1H102KB5	1000P 50V
R802	ERDS2TJ334T	330K 1/4W	R855	ERDS2TJ222T	2.2K 1/4W	C9	ECEA1AU101B	100 10V	C65	ECBT1H120JC5	12P 50V
R803	ERDS2TJ472T	4.7K 1/4W	R856	ERDS2TJ272T	2.7K 1/4W	C10	ECBT1H6R8KC5	6.8P 50V	C67	ECBT1H102KB5	1000P 50V
R805	ERDS2TJ472T	4.7K 1/4W	R857	ERDS2TJ472T	4.7K 1/4W	C12	ECBT1H102KB5	1000P 50V	C70	ECBT1H331KB5	330P 50V
R809	ERDS2TJ104T	100K 1/4W	R858	ERDS2TJ682T	6.8K 1/4W	C13	ECBT1H102KB5	1000P 50V	C79	ECBT1C103MS5	0.01 16V
R810	ERDS2TJ223T	22K 1/4W	R859	ERDS2TJ103T	10K 1/4W	C14	ECBT1H180JC5	18P 50V	C91	ECBT1H102KB5	1000P 50V
R811	ERDS2TJ103T	10K 1/4W	R861	ERDS2TJ102T	1K 1/4W	C15	ECBT1H4R7KC5	4.7P 50V	C92	ECBT1C103MS5	0.01 16V
R812	ERDS2TJ103T	10K 1/4W	R862	ERDS2TJ102T	1K 1/4W	C16	ECBT1H6R8KC5	6.8P 50V	C93	ECBT1H102KB5	1000P 50V
R813	ERDS2TJ102T	1K 1/4W	R863	ERDS2TJ122T	1.2K 1/4W	C17	ECBT1H2R2KC5	2.2P 50V	C94	ECBT0J223MS5	0.022 6.3V
R814	ERDS2TJ102T	1K 1/4W	R864	ERDS2TJ182T	1.8K 1/4W	C18	ECFR1C473MR	0.047 16V	C101	ECBT1H102KB5	1000P 50V
R815	ERDS2TJ562T	5.6K 1/4W	R865	ERDS2TJ222T	2.2K 1/4W	C19	ECBT1H680J5	68P 50V	C102	ECBT1H102KB5	1000P 50V
R816	ERDS2TJ103T	10K 1/4W	R866	ERDS2TJ272T	2.7K 1/4W	C20	ECBT1H1R5MC5	1.5P 50V	C103	ECEA1AU101B	100 10V
R817	ERDS2TJ102T	1K 1/4W	R867	ERDS2TJ472T	4.7K 1/4W	C21	ECBT1H102KB5	1000P 50V	C104	ECFR1C183MR	0.018 16V
R818	ERDS2TJ102T	1K 1/4W	R868	ERDS2TJ102T	1K 1/4W	C22	ECBT1H102KB5	1000P 50V	C105	ECEA1HU010B	1 50V
R819	ERDS2TJ102T	1K 1/4W	R869	ERDS2TJ102T	1K 1/4W	C23	ECBT1H331KB5	330P 50V	C107	ECBT1H102KB5	1000P 50V
R820	ERDS2TJ102T	1K 1/4W	R870	ERDS2TJ222T	2.2K 1/4W	C24	ECBT1C103MS5	0.01 16V	C108	ECEA1HU010B	1 50V
R821	ERDS2TJ102T	1K 1/4W	R874	ERDS2TJ474T	470K 1/4W	C25	ECBT1H102KB5	1000P 50V	C109	ECBT1H102KB5	1000P 50V
R822	ERDS2TJ102T	1K 1/4W	R875	ERDS2TJ474T	470K 1/4W	C26	ECBT1H270J5	27P 50V	C110	ECBT1H102KB5	1000P 50V
R823	ERDS2TJ102T	1K 1/4W	R876	ERDS2TJ181T	180 1/4W	C27	ECBT1H300J5	30P 50V	C111	ECEA1HKA010B	1 50V
R824	ERDS2TJ102T	1K 1/4W	R878	ERDS2TJ561T	560 1/4W	C28	ECEA1AU101B	100 10V	C120	ECEA1HU010B	1 50V
R825	ERDS2TJ104T	100K 1/4W	R879	ERDS2TJ391T	390 1/4W	C29	ECBT1H102KB5	1000P 50V	C126	ECEA1CKA100B	10 16V
R826	ERDS2TJ104T	100K 1/4W	R880	ERDS2TJ390T	39 1/4W	C31	ECBT1H471KB5	470P 50V	C128	ECEA1HKA010B	1 50V
R827	ERDS2TJ103T	10K 1/4W	R881	ERDS2TJ223T	22K 1/4W	C32	ECBT1H180JC5	18P 50V	C129	ECQV1H154JZ3	0.15 50V
R828	ERDS2TJ103T	10K 1/4W	R882	ERDS2TJ223T	22K 1/4W	C35	ECBT1H101KB5	100P 50V	C131	ECEA1HKA010B	1 50V
R829	ERDS2TJ473T	47K 1/4W	R883	ERDS2TJ390T	39 1/4W	C36	ECBT1H102KB5	1000P 50V	C132	ECBT1C103MS5	0.01 16V
R830	ERDS2TJ102T	1K 1/4W	R885	ERDS2TJ563T	56K 1/4W	C38	ECEA0JU101B	100 6.3V	C133	ECEA1HKA0R1B	0.1 50V
R831	ERDS2TJ102T	1K 1/4W	R887	ERDS2TJ104T	100K 1/4W	C39	ECBT1H101KB5	100P 50V	C134	ECBT1C682MR5	6800P 16V
R832	ERDS2TJ102T	1K 1/4W	R888	ERDS2TJ104T	100K 1/4W	C40	ECFR1C223MR	0.022 16V	C137	ECBT1C103MS5	0.01 16V

Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks
C140	ECEA1HKA3R3B	3.3 50V	C264	ECEA1CU470B	47 16V	C371	ECBT1H471KB5	470P 50V	R707	ERJ6GEYJ474V	470K 1/10W
C141	ECBT1H102KB5	1000P 50V	C265	ECQV1H154JZ3	0.15 50V	C372	ECEA1CU101B	100 16V	R708	ERJ6GEYJ154V	150K 1/10W
C142	ECEA1HKA3R3B	3.3 50V	C302	ECFR1C393MR	0.039 16V[M]	C373	ECBT1H471KB5	470P 50V	R709	ERJ6GEYJ683V	68K 1/10W
C143	ECBT1H101KB5	100P 50V	C303	ECEA1CU220B	22 16V	C374	ECEA0JU101B	100 6.3V	R711	ERJ6GEYJ154V	150K 1/10W
C144	ECEA1EKA4R7B	4.7 25V	C304	ECEA1AU221B	220 10V	C375	ECBT1C103MS5	0.01 16V	R712	ERJ6GEYJ221V	220 1/10W
C147	ECEA1HKA2R2B	2.2 50V	C305	ECEA1AU220B	22 10V	C601	ECEA1CU100B	10 16V	R717	ERJ6GEYJ102V	1K 1/10W
C148	ECBT1H331KB5	330P 50V	C306	ECEA1HU3R3B	3.3 50V	C602	ECEA1CU101B	100 16V	R718	ERJ6GEYJ102V	1K 1/10W
C149	ECBT1C152MR5	1500P 16V	C307	ECEA1CU220B	22 16V	C801	ECBT1H180J5	18P 50V	R719	ERJ6GEYJ102V	1K 1/10W
C150	ECBT1H102KB5	1000P 50V	C308	ECBT1C103MS5	0.01 16V	C802	ECBT1H180J5	18P 50V	R720	ERJ6GEYJ102V	1K 1/10W
C160	ECEA1HKA010B	1 50V	C310	ECBT1C103MS5	0.01 16V	C803	ECBT1H680J5	68P 50V	R721	ERJ6GEYJ101V	100 1/10W
C161	ECEA1CU100B	10 16V	C311	ECQP2A331JZT	330P 100V	C804	ECBT1H680J5	68P 50V	R722	ERJ6GEYJ563V	56K 1/10W
C162	ECBT1H102KB5	1000P 50V	C312	ECBT1C103MS5	0.01 16V	C805	ECBT1H680J5	68P 50V	R723	ERJ6GEYJ182V	1.8K 1/10W
C163	ECQV1H154JZ3	0.15 50V	C313	ECQP2A151JZT	150P 100V	C806	ECBT1H680J5	68P 50V	R724	ERJ6GEYJ333V	33K 1/10W
C164	ECEA1CU470B	47 16V	C314	ECQP2A182JZT	1800P 100V	C807	ECEA1HKA010B	1 50V	R725	ERJ6GEYJ472V	4.7K 1/10W
C165	ECQV1H154JZ3	0.15 50V	C315	ECBT1C682MR5	6800P 16V	C808	ECEA0JKA470B	47 6.3V	R726	ERJ6GEYJ473V	47K 1/10W
C201	ECBT1H102KB5	1000P 50V	C316	ECBT1C103MS5	0.01 16V	C817	ECEA0JKA221B	220 6.3V	R727	ERJ6GEYJ822V	8.2K 1/10W
C202	ECBT1H102KB5	1000P 50V	C317	ECEA1AU101B	100 10V	C820	ECBT1H561KB5	560P 50V	R728	ERJ6GEYJ103V	10K 1/10W
C203	ECEA1AU101B	100 10V	C318	ECEA1CU100B	10 16V	C821	ECBT1H561KB5	560P 50V	R731	ERJ6GEYJ822V	8.2K 1/10W
C204	ECFR1C183MR	0.018 16V	C319	ECEA1CU100B	10 16V	C822	ECBT1H102KB5	1000P 50V	R734	ERJ6GEYJ101V	100 1/10W
C205	ECEA1HU010B	1 50V	C320	ECEA1HKA010B	1 50V	C823	ECBT1H102KB5	1000P 50V	R735	ERJ6GEYJ101V	100 1/10W
C207	ECBT1H102KB5	1000P 50V	C321	ECBT1H102KB5	1000P 50V	C824	ECBT1H102KB5	1000P 50V	R736	ERJ6GEYJ101V	100 1/10W
C208	ECEA1HU010B	1 50V	C322	ECEA1HKA010B	1 50V	C826	ECBT1H331KB5	330P 50V	R738	ERJ6GEYJ223V	22K 1/10W
C209	ECBT1H102KB5	1000P 50V	C323	ECEA1AKA101B	100 10V	C828	ECBT1H331KB5	330P 50V	R741	ERJ6GEYJ562V	5.6K 1/10W
C210	ECBT1H102KB5	1000P 50V	C325	ECEA1CU220B	22 16V	C831	ECBT1H331KB5	330P 50V	R742	ERJ6GEYJ562V	5.6K 1/10W
C211	ECEA1HKA010B	1 50V	C332	ECBT1H104ZF5	0.1 50V	C832	ECBT1H331KB5	330P 50V	R743	ERJ6GEYJ562V	5.6K 1/10W
C220	ECEA1HU010B	1 50V	C333	ECBT1C103MS5	0.01 16V	C833	ECBT1H331KB5	330P 50V	R744	ERJ6GEYJ103V	10K 1/10W
C226	ECEA1CKA100B	10 16V	C337	ECEA1CU100B	10 16V	C834	ECBT1H331KB5	330P 50V	R745	ERJ6GEYJ155V	1.5M 1/10W
C228	ECEA1HKA010B	1 50V	C338	ECBT1H104ZF5	0.1 50V	C835	ECBT1H331KB5	330P 50V	R748	ERJ6GEYJ182V	1.8K 1/10W
C229	ECQV1H154JZ3	0.15 50V	C339	ECEA1HU220B	22 50V	C836	ECBT1H331KB5	330P 50V	R749	ERJ6GEYJ682V	6.8K 1/10W
C230	ECBT1H101KB5	100P 50V	C340	ECEA1AU471B	470 10V	C837	ECBT1H331KB5	330P 50V	R750	ERJ6GEYJ473V	47K 1/10W
C231	ECEA1HKA010B	1 50V	C341	ECEA1AKA101B	100 10V	C838	ECBT1H331KB5	330P 50V	R751	ERJ6GEYJ473V	47K 1/10W
C232	ECBT1C103MS5	0.01 16V	C342	ECEA1AKA101B	100 10V	C842	ECBT1H102KB5	1000P 50V	R752	ERJ8GEYJ220V	22 1/8W
C233	ECEA1HKA0R1B	0.1 50V	C343	ECEA1CKA100B	10 16V	C846	ECEA1CKA101B	100 16V	R770	ERJ6GEYJ155V	1.5M 1/10W
C234	ECBT1C682MR5	6800P 16V	C344	ECEA1HKA2R2B	2.2 50V	C901	ECQV1H474JZ3	0.47 50V	R771	ERJ6GEYJ155V	1.5M 1/10W
C237	ECBT1C103MS5	0.01 16V	C345	ECEA1CKA100B	10 16V	C902	ECQV1H474JZ3	0.47 50V	R772	ERJ6GEYJ273V	27K 1/10W
C240	ECEA1HKA3R3B	3.3 50V	C346	ECEA1AKA101B	100 10V	C903	ECQV1H474JZ3	0.47 50V			
C241	ECBT1H102KB5	1000P 50V	C349	ECEA1AKA101B	100 10V	C904	ECQV1H474JZ3	0.47 50V		CAPACITORS	
C242	ECEA1HKA3R3B	3.3 50V	C350	ECEA1HKA2R2B	2.2 50V	C905	ECEA1CKA101B	100 16V			
C243	ECBT1H101KB5	100P 50V	C358	RCA1EM472BT	4700P 25V[M]	C906	ECBT1C103MS5	0.01 16V	C701	ECEA0JKA330I	33 6.3V
C244	ECEA1EKA4R7B	4.7 25V	C360	ECEA1HU100B	10 50V				C702	ECUZNE104MBN	0.1 25V
C247	ECEA1HKA2R2B	2.2 50V	C361	ECEA1AU220B	22 10V		<SERVO P.C.B.>		C703	ECEA0JKA101I	100 6.3V
C248	ECBT1H331KB5	330P 50V	C362	ECEA1AU221B	220 10V		RESISTORS		C704	ECUZNE104MBN	0.1 25V
C249	ECBT1C152MR5	1500P 16V	C363	ECEA1AU101B	100 10V				C705	ECUZNE104MBN	0.1 25V
C250	ECBT1H102KB5	1000P 50V	C365	ECEA1CU470B	47 16V	R701	ERJ6GEYJ4R7V	4.7 1/10W	C706	ECUV1H272KBN	2700P 50V
C260	ECEA1HKA010B	1 50V	C366	ECBT1C103MS5	0.01 16V	R703	ERJ6GEYJ823	82K 1/10W	C707	ECUV1E273KBN	0.027 25V
C261	ECEA1CU100B	10 16V	C367	ECEA1CU100B	10 16V	R704	ERJ6GEYJ102V	1K 1/10W	C708	ECUV1H472KBN	4700P 50V
C262	ECBT1H102KB5	1000P 50V	C368	ECEA1AU101B	100 10V	R705	ERJ6GEYJ103V	10K 1/10W	C709	ECUV1C473KBN	0.047 16V
C263	ECQV1H154JZ3	0.15 50V	C369	ECEA1CU100B	10 16V	R706	ERJ6GEYJ102V	1K 1/10W	C710	ECUV1H182KBN	1800P 50V

Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks	Ref No.	Part No.	Values & Remarks
C711	ECUZNE104MBN	0.1 25V	RJ721	ERJ8GEY0R00A	0 1/8W						
C712	ECUZNE104MBN	0.1 25V	RJ722	ERJ8GEY0R00A	0 1/8W						
C713	ECUV1C104MBM	0.1 16V	RJ723	ERJ8GEY0R00A	0 1/8W						
C714	ECEA0JKA101I	100 6.3V	RJ724	ERJ8GEY0R00A	0 1/8W						
C716	ECUV1H561KBN	560P 50V	RJ725	ERJ8GEY0R00A	0 1/8W						
C717	ECUZNE104MBN	0.1 25V	RJ726	ERJ8GEY0R00A	0 1/8W						
C718	ECUV1C224KBN	0.22 16V	RJ727	ERJ8GEY0R00A	0 1/8W						
C721	ECUV1H150JCN	15P 50V	RJ728	ERJ8GEY0R00A	0 1/8W						
C722	ECUV1H150JCN	15P 50V	RJ729	ERJ8GEY0R00A	0 1/8W						
C723	ECEA1AKA221I	220 10V	RJ730	ERJ8GEY0R00A	0 1/8W						
C724	ECUV1C104MBM	0.1 16V									
C725	ECUV1H102KBN	1000P 50V		TEST JUMPERS							
C726	ECUV1H102KBN	1000P 50V									
C727	ECEA1HPK010I	1 50V	TJ701	EYF8CU	TEST JUMPER						
C728	ECEA1HPK010I	1 50V	TJ702	EYF8CU	TEST JUMPER						
C730	ECUZNE104MBN	0.1 25V									
C731	ECEA0JKA221I	220 6.3V		<LOADING MOTOR>							
C732	ECEA0JKA221I	220 6.3V		CAPACITOR							
C733	ECUZNE104MBN	0.1 25V									
C734	ECEA1AKA221I	220 10V	C1	ECA1AKF820E	82 10V						
C735	ECUZNE104MBN	0.1 25V									
C736	ECUZNE104MBN	0.1 25V									
C737	ECUZNE104MBN	0.1 25V									
C738	ECUV1C154KBN	0.15 16V									
C742	ECUV1E273KBN	0.027 25V									
C743	ECUZNE104MBN	0.1 25V									
C744	ECUV1E822KBN	8200P 25V									
C745	ECUV1C473MBN	0.047 16V									
C747	ECUV1H222KBN	2200P 50V									
C748	ECUV1H471KBM	470P 50V									
C749	ECUZNE104MBN	0.1 25V									
C751	ECUZNE104MBN	0.1 25V									
C752	ECUV1H152KBN	1500P 50V									
C753	ECUV1H471KBM	470P 50V									
C754	ECUV1H471KBN	470P 50V									
	CHIP JUMPERS										
RJ701	ERJ8GEY0R00A	0 1/8W									
RJ702	ERJ8GEY0R00A	0 1/8W									
RJ703	ERJ8GEY0R00A	0 1/8W									
RJ704	ERJ8GEY0R00A	0 1/8W									
RJ707	ERJ8GEY0R00A	0 1/8W									
RJ709	ERJ8GEY0R00A	0 1/8W									
RJ714	ERJ8GEY0R00A	0 1/8W									
RJ715	ERJ8GEY0R00A	0 1/8W									
RJ716	ERJ8GEY0R00A	0 1/8W									
RJ717	ERJ8GEY0R00A	0 1/8W									