ORDER NO. MD9306037C3 Service Manua

Portable Stereo Component CD System

Radio Cassette

RX-DT670

Colour

(K) ... Black Type

Area

Suffix for Model No.	Area	Colour
(GC)	Third Region	(K)

TAPE SECTION: Mechanism Series (SG20W) CD SECTION: Traverse Deck Series (RAE0111Z)

SPECIFICATIONS

General:

AC; 110~127V/200~220V Power Requirement:

230~250V, 50/60Hz Battery; 15V (Ten R20/LR20,

UM-1 batteries)

Memory Back-up Battery for Computer;

6V (Four R6/LR6, UM-3 batteries)

Power Consumption:

52W (AC only) 120W..... PMPO Power Output:

30W...... RMS (max)

Speaker: Woofer x 2; 12 cm $(2.7 \sim 8\Omega)$

Tweeter x 2; 8 cm $(8 \sim 16\Omega)$

Jacks:

Weight:

MIC; $4mV (200\Omega)$ Input:

HEADPHONES; ($32\Omega, \phi 3.5$) Outputs:

SPEAKER; Woofer $2.7~8\Omega$

Tweeter 8~16Ω

641(W) x 272(H) x 207(D) mm Dimensions:

Main Unit; 300 x 272 x 207 mm

Speaker Box;170 x 271 x 188 mm 8.4 kg without batteries

Disc Player Section:

Sampling Frequency: 44.1 kHz

Decoding: 16-bit linear

D-A Conversion: MASH (1 Bit DAC) Beam Source: Semiconductor laser

(wavelength 780 nm)

2-Channel, stereo

No. of Channels: Frequency Response: 20~20,000 Hz (0/-3 dB)

Dynamic Range:

86 dB

S/N Ratio: 75 dB (1 kHz) Wow and Flutter: Unmeasurable **Radio Section:**

Frequency Range: FM; 87.50~108.00 MHz

MW;531~1602 kHz (9kHz step)

530~1600kHz (10kHz step)

SW1; 3.2~7.3 MHz SW2; 9.5~21.85 MHz

Intermediate Frequency: FM; 10.7 MHz

AM; 450 kHz

Sensitivity: FM; 9.0dB/50 mW output

(-30 dB Limit Sens.) MW; 55dB/m/50 mW output SW1; 54dB/m/50 mW output

SW2; 33dB/50 mW output

Tape Deck Section:

Frequency Response: 20~14,000 Hz (with normal tape)

Recording System: AC bias, AC erase Tape Speed: 4.8 cm/s (17/sips) Monitor System: Variable sound monitor

Track System: 4-track 2-channel stereo recording and

playback

* MASH

• MASH (Multi-Stage Noise Shaping) is an effective oversampling D/A conversion technique which realizes a high S/N ratio and needs no highly complex manufacturing processes such as a laser trimming.

MASH is a trademark of NTT (Nippon Telegraph and

Telephone Corporation).

- 1. Weights and dimensions shown are approximate.
- 2. Design and specifications are subject to change without notice.

anasonic

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CAUTION:

THIS PRODUCT UTILIZES A LASER.

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

- 2 -

■ PRECAUTION OF LASER DIODE

CAUTION:

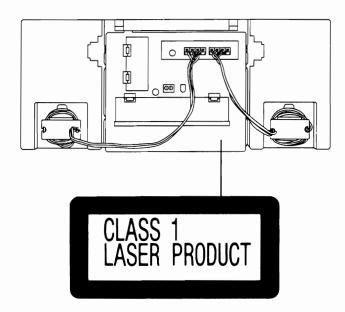
This product utilizes a laser diode with the unit turned "ON" ,invisible laser radiation is emitted from the pick up lens .

Wave Length: 780 nm

Maximum output radiation power from pick up: 100 μ W/VDE

Laser radiation from the pick up lens is within safety level ,but take precaution on 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 has already been adjusted .
- 3. Do not look at the focus lens using optical instruments .
- 4. It is Not advisable to look at the pick up lens for a long period of time .

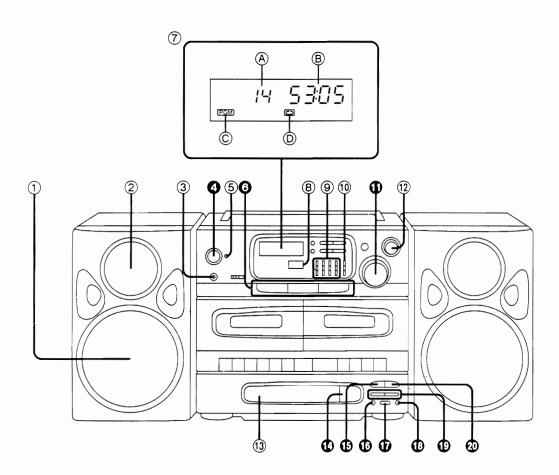




■ LOCATION OF CONTROLS

CD/GENERAL CONTROLS

*The functions indicated by the numbers with black background (for example 4) can be activated from the remote control transmitter.



- Speakers (Woofer ,12cm ,2.7Ω)
- ② Speakers (Tweeter ,8cm ,8Ω)
- (3) Headphones Jack (PHONES)
- 4 Operation Switch (OPERATION)
- (5) Operation/battery check/ AC connection indicator (OPR/BATT-STDBY ())

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

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

- 7 Display Section

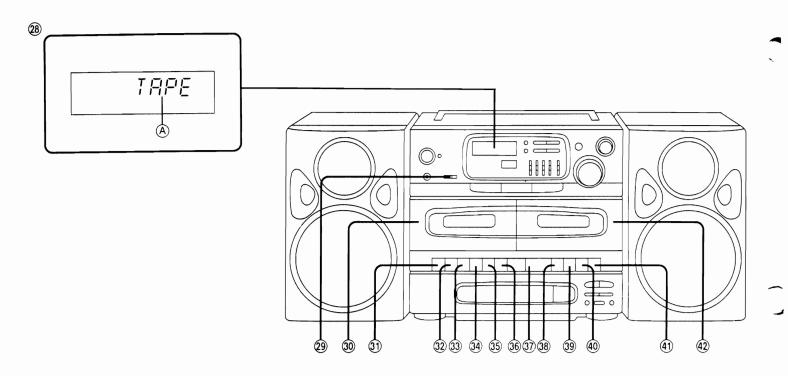
When using AC power or car battery cord, the backlight of the display will be on .

- A: Track Display
- **B: Playing Time Display**
- C: Program Indicator (PGM)
- D: Repeat Indicator ()
- 8 Remote Control Sensor (SENSOR)
- Graphic Equalizer Controls (GRAPHIC EQUALIZER)

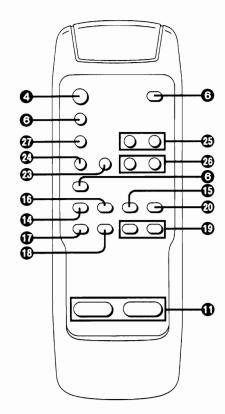
- 10 Balance Control (BALANCE)
- Volume Control (VOLUME)
- (12) S-XBS level Control (S-XBS LEVEL)
- (13) Disc Tray
- CD Open/Close Button (▲ OPEN / CLOSE)
- Play/Pause Button (>/ II PLAY / PAUSE)
 Press this button to start the disc play or stop the disc play temporarily
- Repeat Button (REPEAT)
- Memory/Recall Button (MEMORY / RECALL)
 Press this button to program the desired track(s) and to confirm the programmed content(s)
- Bedit Pause Button (EDIT PAUSE)
 Press this button when recording a disc with edit pause function.
- Skip/Search Buttons (|◄◄/◄•►►/►►)
 Press either button to skip (backward or forward) the tracks, or to search for (backward or forward) the desired portion of the disc.
- ② Stop/Clear Button (■/CLEAR)

Press this button to stop the disc play or to clear the programmed track(s) and sequence.

• TAPE DECK CONTROLS



- 28 Display Section
 A: Tape mode indicator (TAPE)
- REMOTE CONTROL OPERATION



29 Edit Recording Speed / Beat Proof Selector (EDIT MODE / BP)

NOR / ■: Normal speed HIGH / ■: High speed

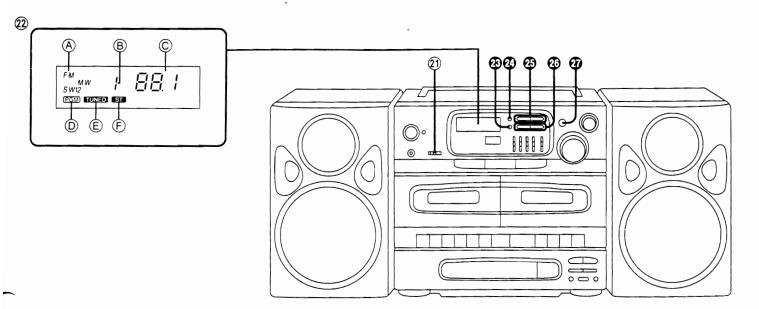
- 30 Deck 1 Cassette Compartment Cover
- 31 Record Button (REC)
 Press this button to record a tape.
- 32 Playback Button (► PLAY)
 Press this button to playback a tape.
- Rewind/Review Button (◄◄ / REV)

 Press this button to rewind the tape during stop condition, or to search the desired portion (backward) during playback.
- Fast Forward/Cue Button (►►/CUE)

 Press this button to fast forward the tape during stop condition, or to search the desired portion (forward) during playback.
- Stop/eject Button (STOP / EJECT)

 Press this button to stop the tape during tape movement, and to open the cassette compartment cover during tape stop condition.
- **36** Pause Button (PAUSE)
 Press this button to stop the tape temporarily.
- 37 Playback Button (►/PLAY)
- (38) Rewind/Review button (◀◀ / REV)
- (39) Fast Forward/Cue Button (CUE /▶▶)
- (40) Stop/eject Button (☐ STOP / EJECT)
- (41) Pause Button (II PAUSE)
- (42) Deck 2 Cassette Compartment Cover

TUNER CONTROLS



(21) Edit Recording Speed / Beat Proof Selector (EDIT MODE / BP)

Set the selector to reduce "Beat" signal.

- 22 Display section
 - A: Band Indicator (FM, MW, SW1, SW2)
 - **B: Preset Channel Indicator**
 - C: Frequency Display
 - D: Program Indicator (PGM)
 - E: Tuning Indicator (TUNED)
 - F: Stereo Indicator (ST)

This indicator does not appear when the FM mode button is pressed to monaural mode.

Memory Button (MEMORY)

Press this button to memorize a broadcast frequency into the preset memory.

FM Mode Button (FM MODE)

Press this button to select the stereo reception or manual reception.

25 Preset Memory Channel Buttons (PRESET)

If you memorize the broadcast station, you can select the preset channel by pressing one of these buttons.

Tuning Buttons (TUNING MANUAL)
These buttons are used to tune the radio to the

desired broadcast frequency

Band Button (BAND)

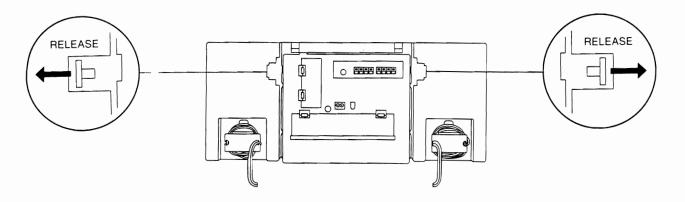
Press this button to select the desired radio band.

SPEAKER SYSTEM CONNECTIONS

This unit can be used as a one-piece portable stereo radio cassette recorder, or a three-piece component system, by attaching or detaching the speaker system.

Detaching the Speakers

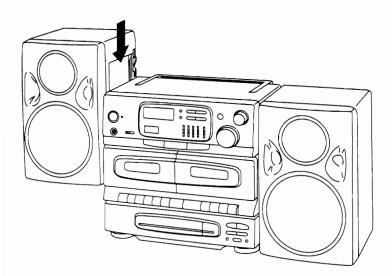
Before attaching or detaching the speakers, be sure to disconnect the speaker cables from the speakers terminals. Be sure to press the operation switch to turn off the unit before connecting/disconnecting the speaker cables.

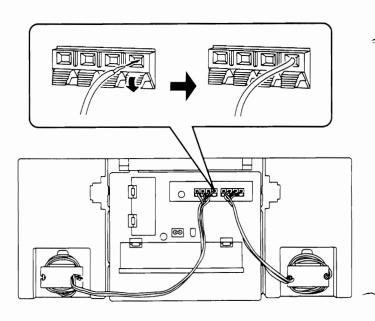


- 1. Unlock the speaker release levers by pulling them in the direction shown below, and slide up each speakers.
- 2. Connect the speaker cables to the speaker terminals.

Attaching the Speakers

1. Align the speakers with the main unit as shown in the figure, interlock the grooves and press down.





When using the unit with the speakers attached, wind the speaker cables as shown.

Since a strong magnet is used for the speaker, keep magnetized commuter passes, tickets, personal credit cards, recorded tapes or watches, etc. away from the set. The speaker magnet in the set may damage them.

Connect the colored speaker cables to the same colored speaker terminals.

■ HANDLING PRECAUTIONS FOR TRAVERSE DECK

The Laser Diode in the traverse deck (Optical Pickup) may break down due to potential difference caused by static electricity of clothes or human body.

So, be CAREFUL of electrostatic breakdown during repair of the traverse deck (Optical Pickup)

Handling of traverse deck (optical pickup)

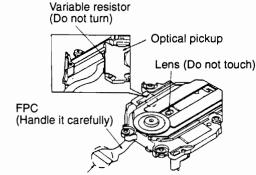
- Do not subject the traverse deck (optical pickup) to static electricity as it is extremely sensitive to electrical shock.
- To prevent the breakdown of the laser diode, an anti-static shorting pin is inserted into the flexible board (FPC board). When removing or connecting the short pin, finish the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

Grounding for electrostatic breakdown prevention

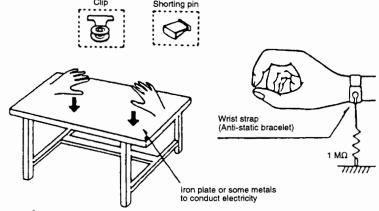
- 1. Human body grounding
 - Use the anti-static wrist strap to discharge the static electricity from your body.
- 2. Work table grounding.
 - Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is placed, and ground the sheet.

Caution:

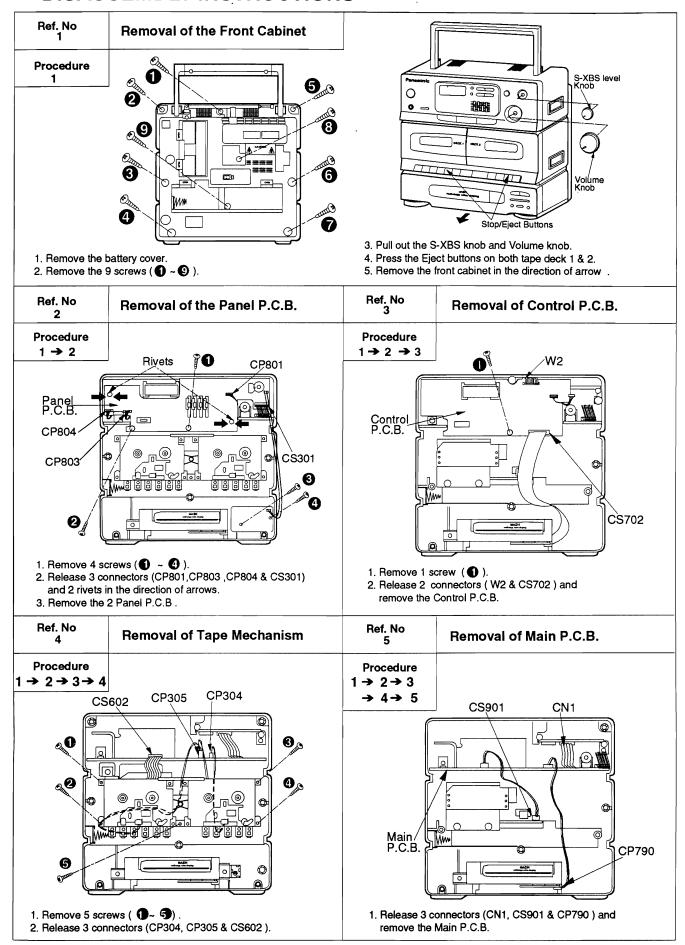
The static electricity of your clothes will not be grounded through the wrist strap. So, take care not to let your clothes touch the traverse deck (optical pickup).

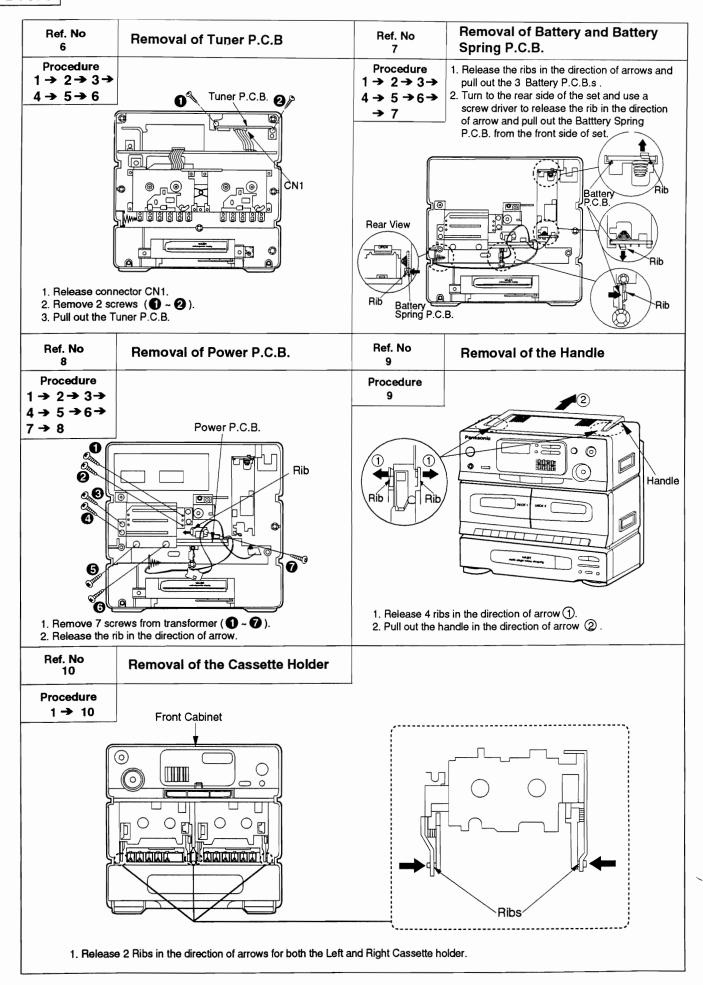


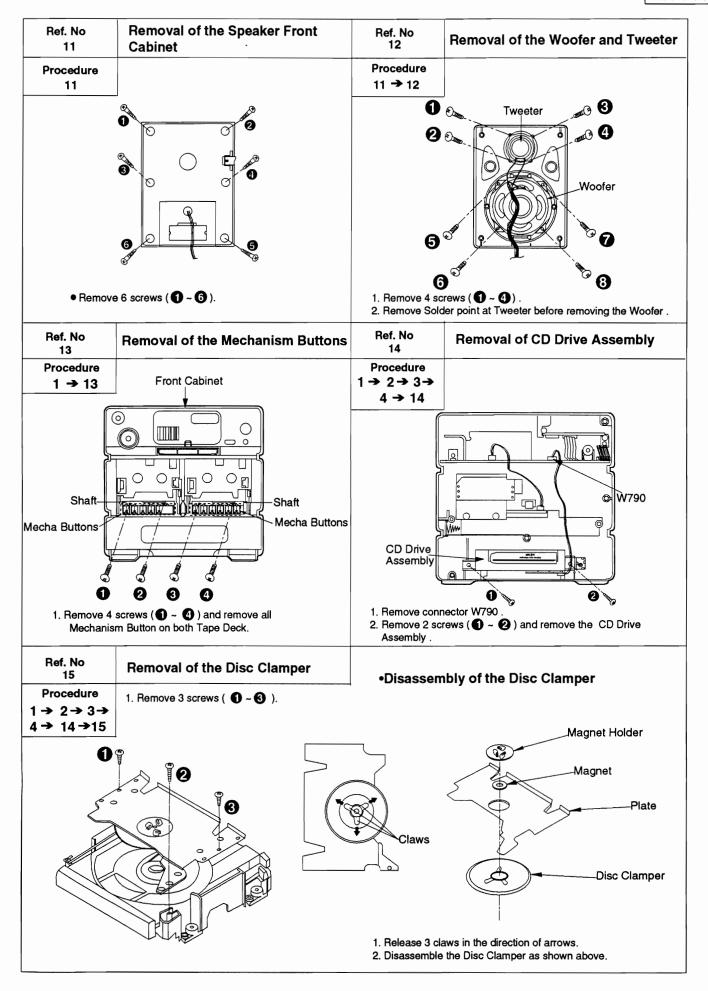
Be sure to short this portion (Use the shorting pin or clip)

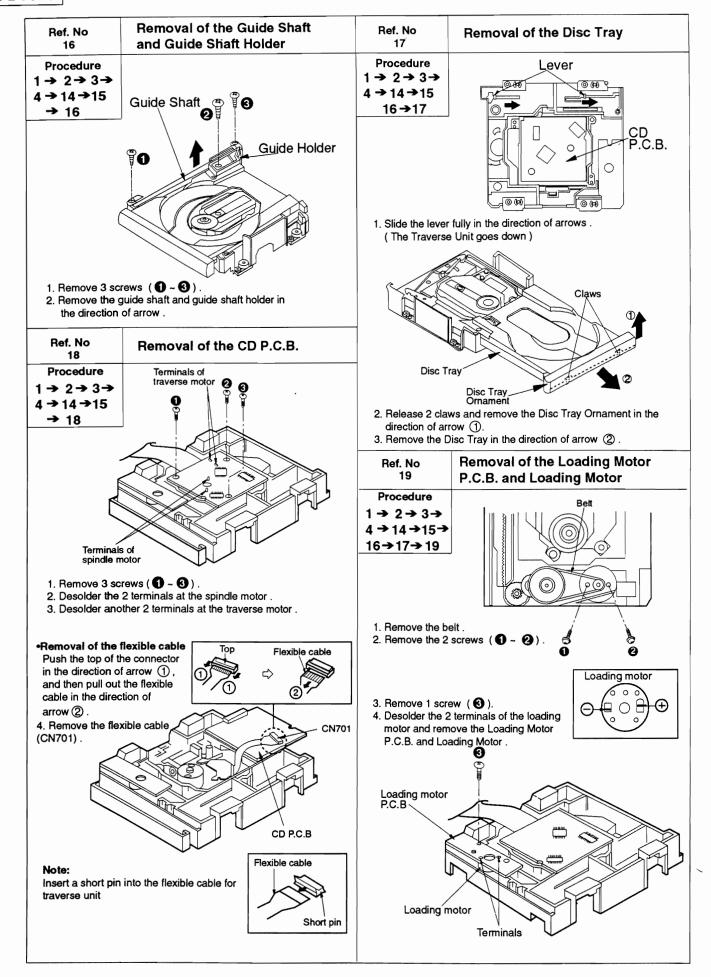


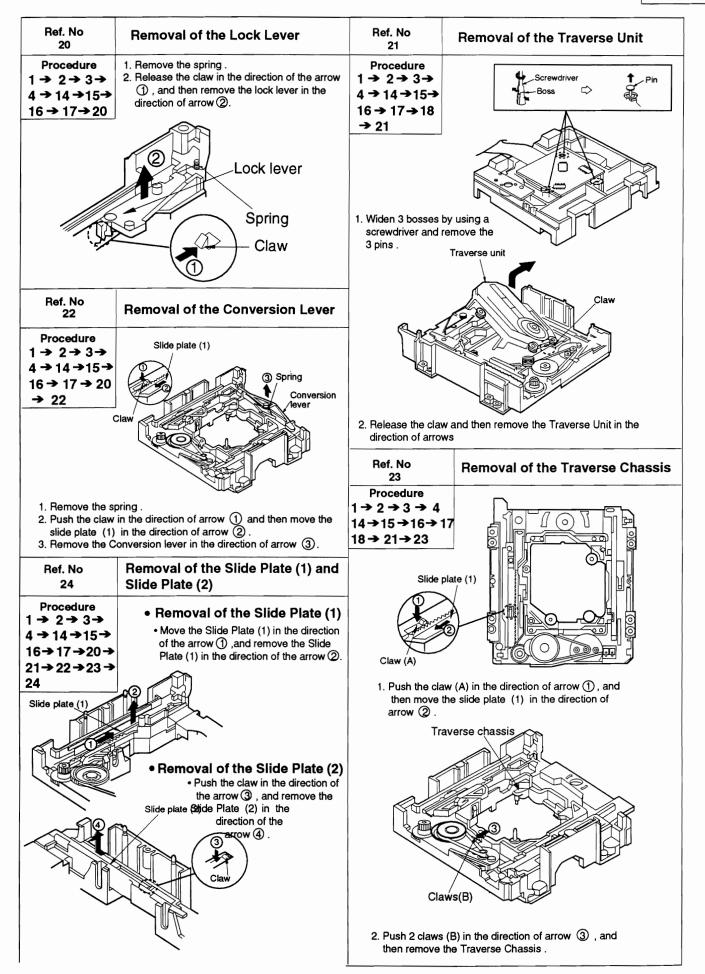
DISASSEMBLY INSTRUCTIONS

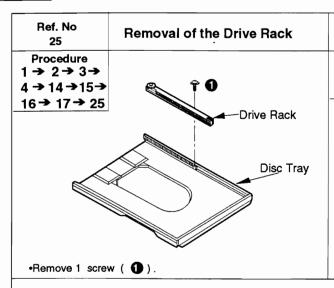










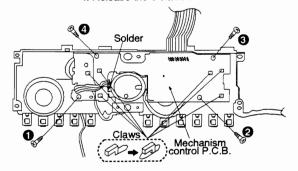


Ref. No
26

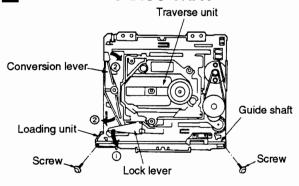
Procedure
1 → 2 → 3 →
4 → 26

Removal of the Mechanism P.C.B.

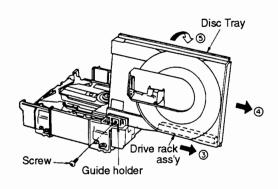
- 1. Remove solder points on motor terminal.
- 2. Remove 4 screws. (1 ~ 4).
- 3. Cut wire-tile
- 4. Release the 6 claws .



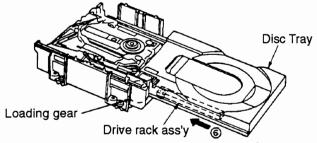
INSTALLING DISC TRAY



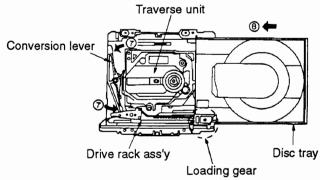
- Move the Lock Lever in the direction of arrow ① and the Conversion Lever in the direction of arrow ②.
 (The Traverse Unit rises)
- 2. Install the guide shaft on the loading unit fixing the 2 screws.



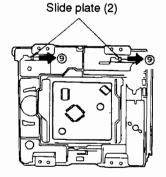
- 3. Install the Disc Tray on the guide holder with the screw as shown above .
- 4. Slide the drive Rack Ass'y fully in the direction of arrow 3.
- 5. Slide the Disc Tray fully in the direction of arrow 4.
- 6. Lay the Disc Tray down in the direction of arrow 5.

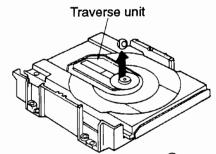


- 7. Slide the Drive Rack Ass'y in the direction of arrow (6).
- 8. Hold the Disc Tray and slide the Drive Rack Ass'y fully in the direction of arrow (6). (The Drive Rack Ass'y should not be able to slide at all and the loading gear is engaged with the Drive Rack Ass'y.)



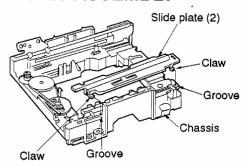
- Locate the Conversion Lever fully in the direction of arrow ⑦, and the Drive Rack Ass'y engages with the Loading Gear (1).
 (The Traverse Unit is lowered)
- 10. Slide the Disc Tray in the direction of arrow 8 .



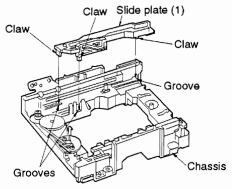


11. Slide the Slide Plate (2) in the direction of arrow (9) and check if the Traverse Unit rises in the direction of arrow (10).

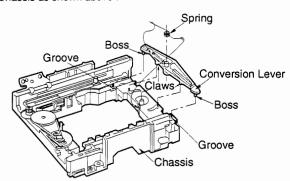
CD UNIT ASSEMBLY



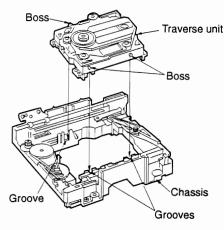
 Install the Slide Plate (2) on the chassis by fitting the 2 claws of the Slide Plate (2) in the two grooves of the chassis.



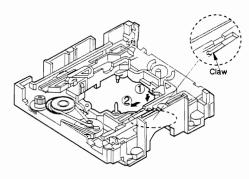
3. Install the Slide Plate (1) on the Chassis by fitting the 3 claws of the Slide Plate (1) in the 3 grooves of the Chassis as shown above.



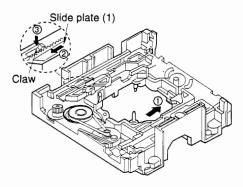
6. Install the Conversion Lever on the Chassis by fitting the 2 claws of the Conversion Lever in the 2 grooves of the Chassis and the 2 bosses in the 2 grooves as shown above.



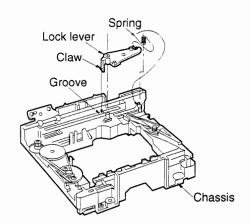
9. Install the Traverse Unit on the Chassis by fitting the 3 bosses of the Traverse Unit in the 3 grooves of the Chassis .



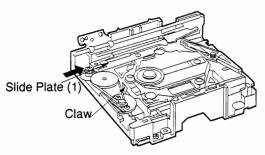
2. Slide the Slide Plate (2) in the direction of arrow (2) while keeping it held down lightly in the direction of arrow (1).



- 4. Slide the Slide Plate (2) fully in the direction of arrow 1 .
- Keep holding down the cllaw in the direction of arrow 3
 and slide the Slide Plate (1) in the direction of arrow 2 to
 stop. [The Slide Plate (1) is not able to slide]



- Install the Lock Lever on the Chassis by fitting the claw of the Lock Lever in the groove of the chassis.
- 8. Install the spring on the Lock Lever and the Chassis .

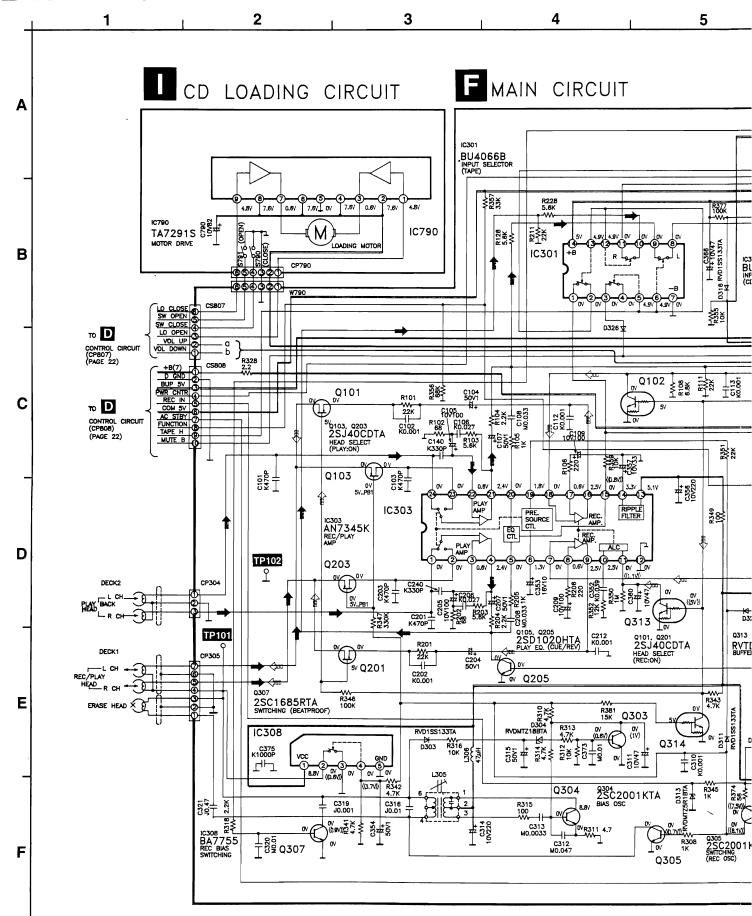


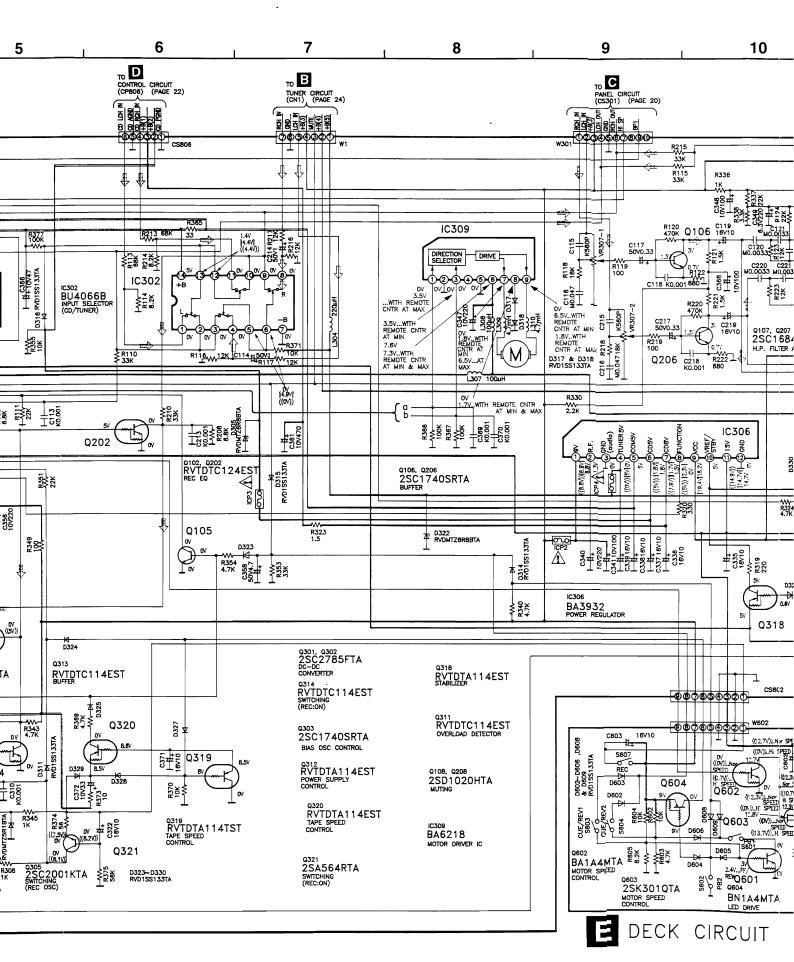
- 10. Ensure that the Traverse Unit is engaged to the 1 claw.
- 11. Slide the Slide Plate (1) in the direction of the arrow. [The Slide Plate (1) is not able to slide only a little]

■ TERMINAL GUIDE OF IC'S, TRANSISTORS & DIODES

AN7273A	RVIBA1332L	LM7001	BU4066B	AN7345K	RVILA4108R
18 18 10 10 10 10 10 10 10 10 10 10 10 10 10	1 16	16 personal 9	14 percent 8	13	11 10 20 1
AN7135	BA3932	S81250PG-T S8053HNB-T	BA7755	BA3822LS-M	AN8802SCE1V
12	12	123		1 mmm	32 17 16
MN66271RA M37410M6H240 41 40 60 21 61 20	AN8389SE1	BA6218	TA7291S	E C B	BN1L3NTA 2SC2784FTA 2SC2785FTA 2SC2786MTA 2SC1684HRTA
2SJ40CDTA	2SC1740SRTA 2SC1740SSTA RVTDTC113ZST RVTDTC114EST RVTDTA114EST RVTDTC124EST BA1A4MTA	BCE	BN1A4MTA 2SD1020HTA RVTDTC143XST RVTDTA143XST RVTDTC144EST	E _{C B}	2SA564RTA 2SA564STA 2SC829CTA 2SC1684HRTA 2SC2001KTA 2SC1685RTA
2SD2037ETA	2SK301QTA	1SV147T4MATU Anode Anode Cathode Ca	Anode Cathode	Ca Cathoo A Anode	RVDMTZ5R1BTA RVDMTZ5R6BTA de RVDMTZ6R8BTA RVDMTZ11BTA RVDMTZ18BTA RVDMTZ8R2CTA RVDMTZ7R5BTA
RVD1SS133TA	1N5402BM21	LN11WP23TDA	2SK544F-AC	2SB709S	
Ca Cathode Anode	Cathode	Anode Cathode A O A O A	0 6 5	B E	

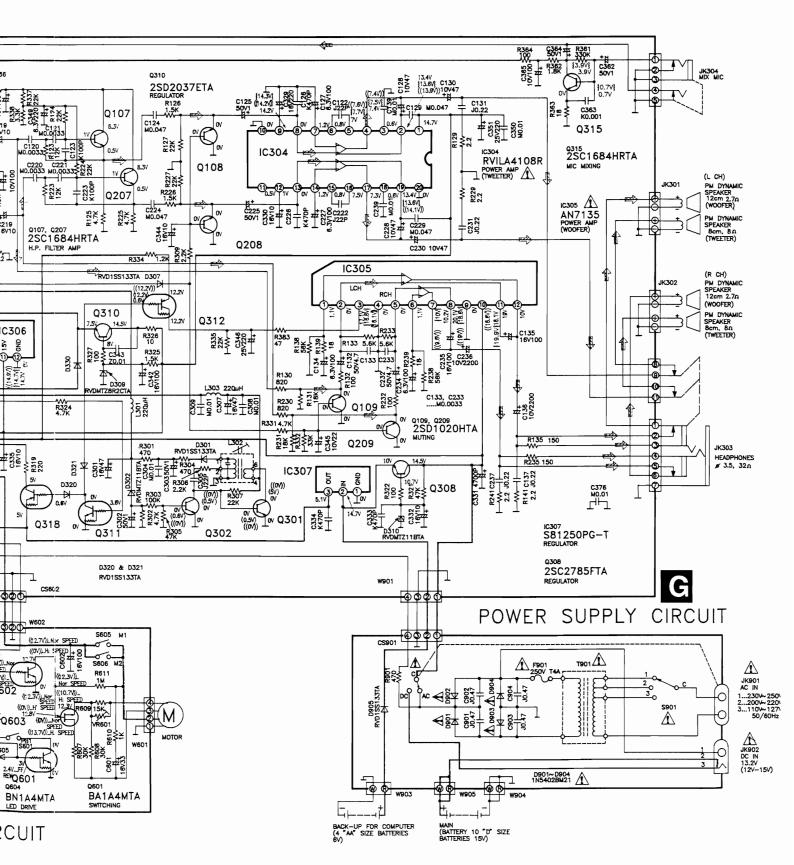
■ SCHEMATIC DIAGRAM





RX-D

10 , 11 , 11 , 12 , 13 , 14



15

14

18

17

16

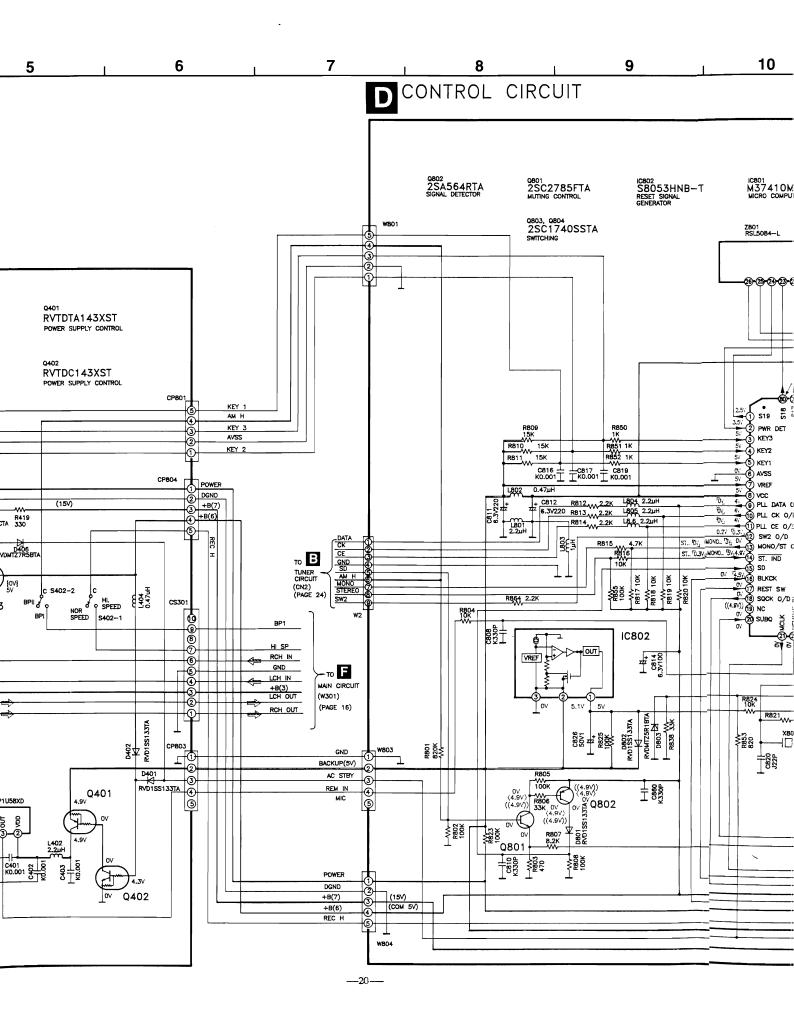
of new technology.

Component identified by 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 any time with the development

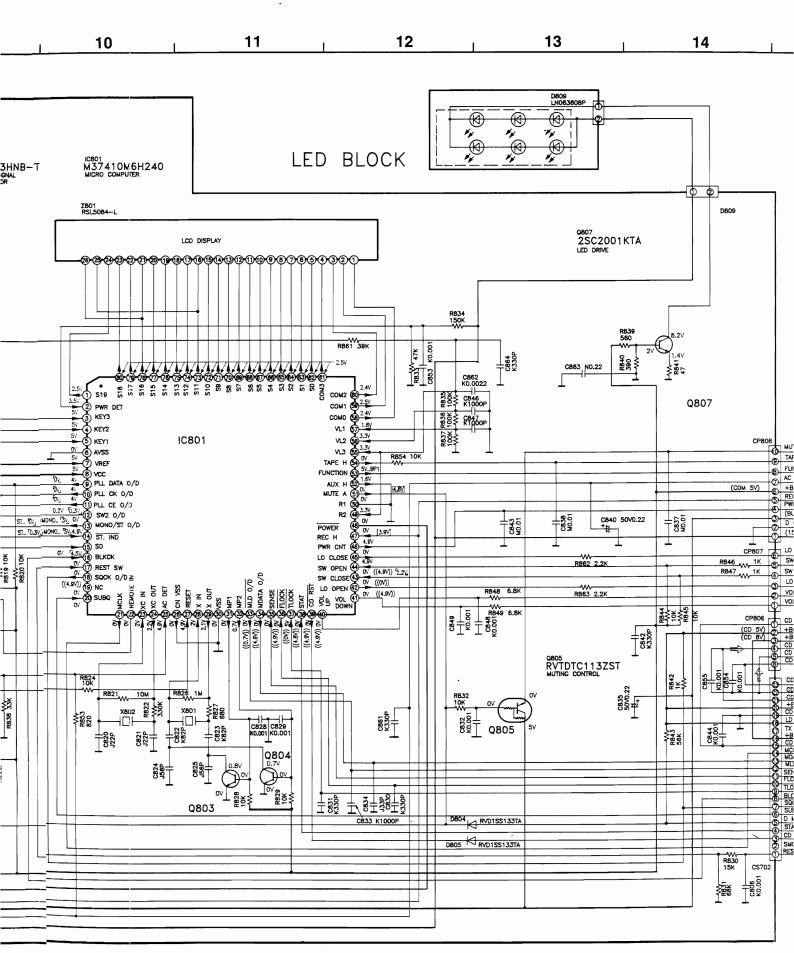
■ SCHEMATIC DIAGRAM 5 OPERATION CIRCUIT A S415 CLEAR S414 PLAY/ PAUSE S413 OPEN/ CLOSE **(**) C PANEL CIRCUIT В R411 R412 R413 2.7K 2.2K 1.5K **RVTDTA** C404 N0.022 Q402 RVTDC1 POWER SUF S403 WEMORY S405 WEMORY TUNE UP S408 UP S408 UP S408 UP S408 C IC401 BA3822LS-M GEQ AMPLIFIER Q403 RVTDTC144EST (15V) D404 R419 RVDMTZ8R2CTA 330 D406 [2V] RVDMTZ7R5BT R153 4.7K D VR302-1 VR301-1 (50K) VR301-2 (50K) (100K) 44 C259 5072.2 H+ C258 16710 IC401 5072.2 + H 3 6.9V E 9 6.3V K0.001 6.9V C155 Z401 RCDGP1U58XD 6.3V MO.0033 MO.0033 6.3V 6.9V C154 4.7V MO.01 3.4 25254 12524 12524

25.52 *

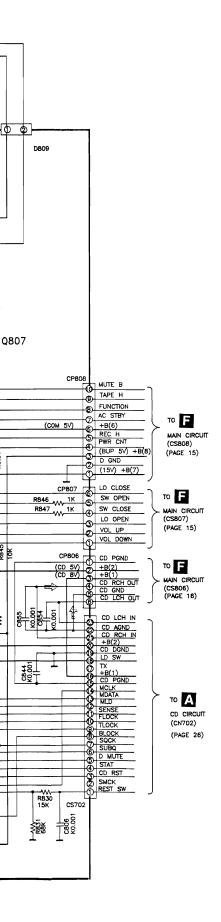
C450



RX-



14 | 15 | 16 | 17 | 18 | 19



: Main Signal Line
: CD Signal Line

: Tape Playback Signal Line

: MIC Signal Line

□□□□: Recording Signal Line

: +B Line

: FM Signal Line

FM/MW/SW1/SW2 Vcap Signal Line

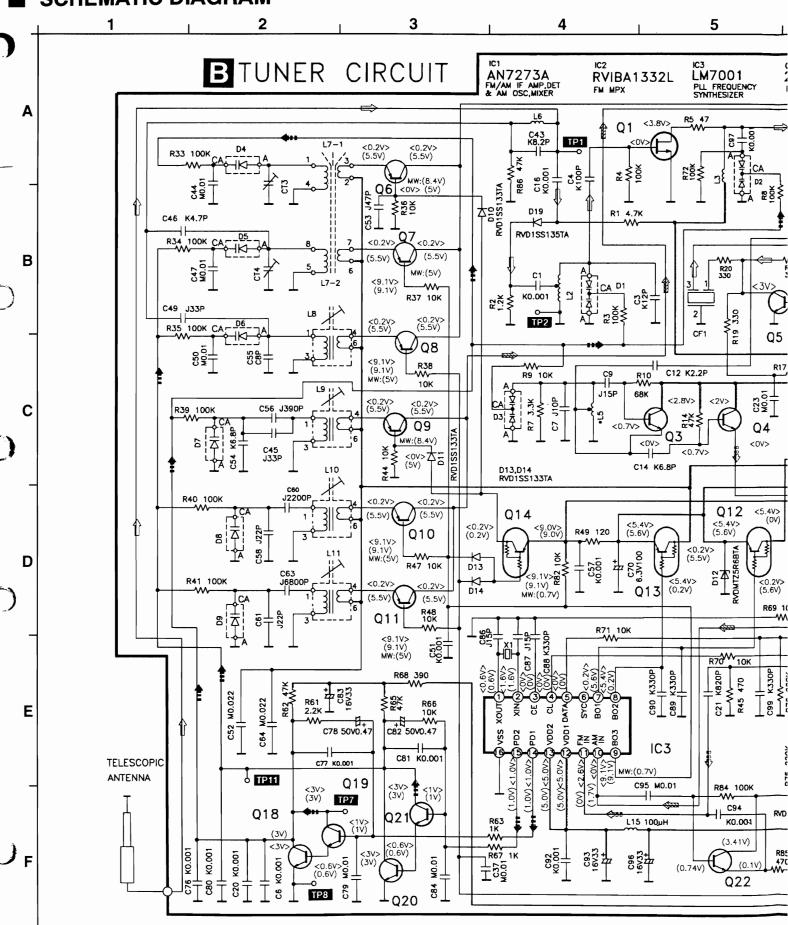
■■

: FM OSC Signal Line

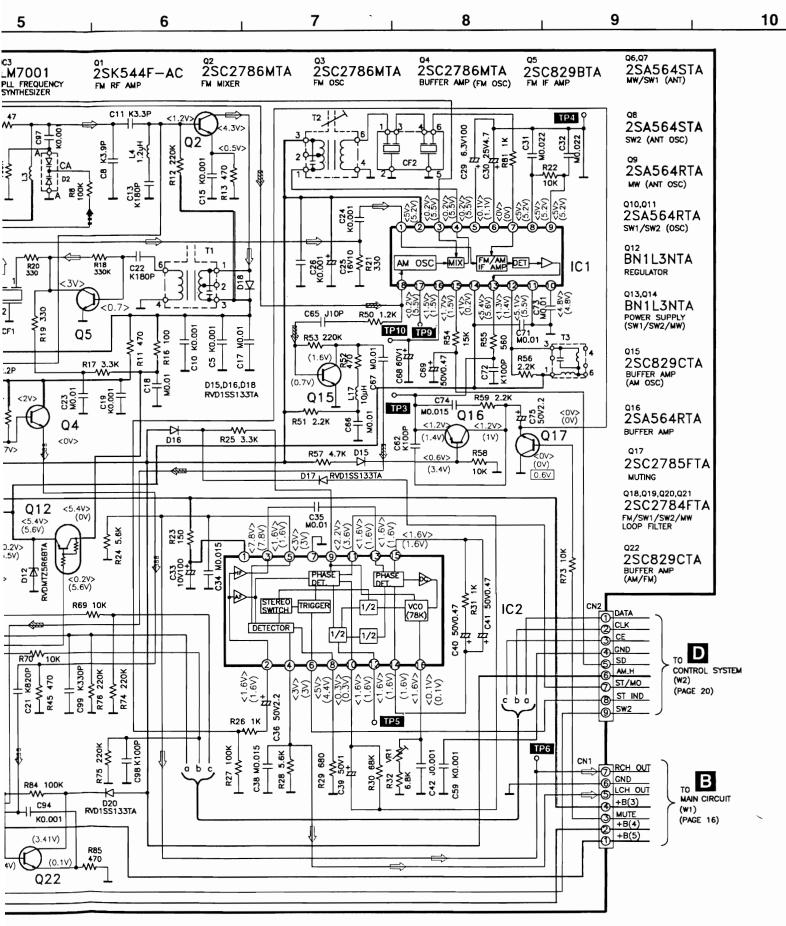
: MW/SW1/SW2 OSC

Signal Line

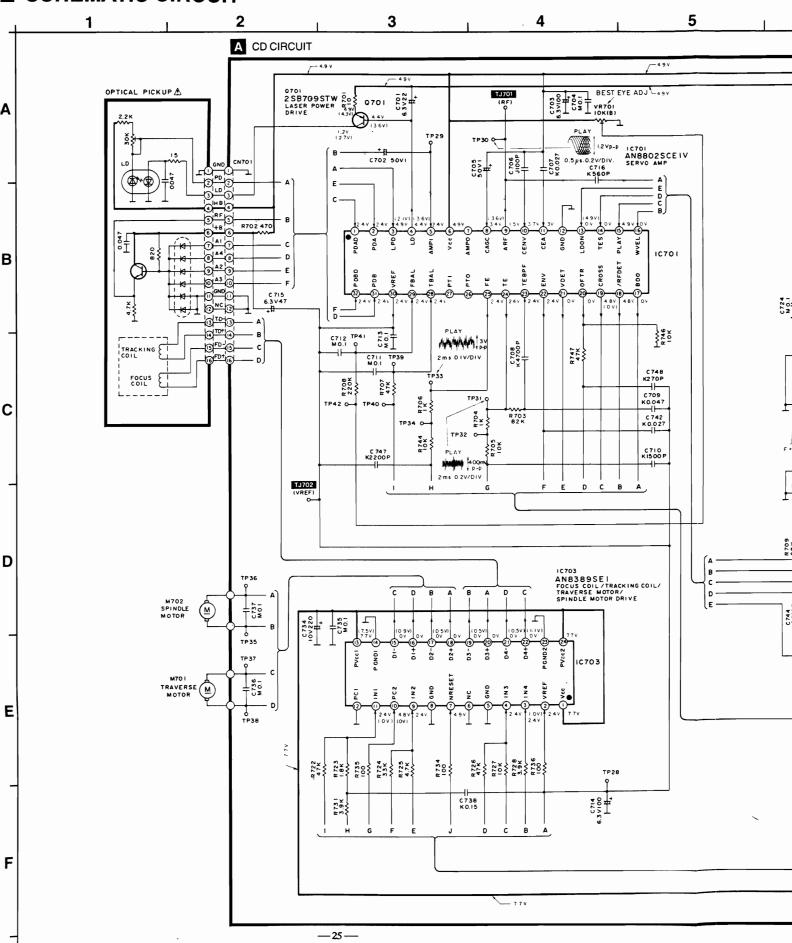
SCHEMATIC DIAGRAM

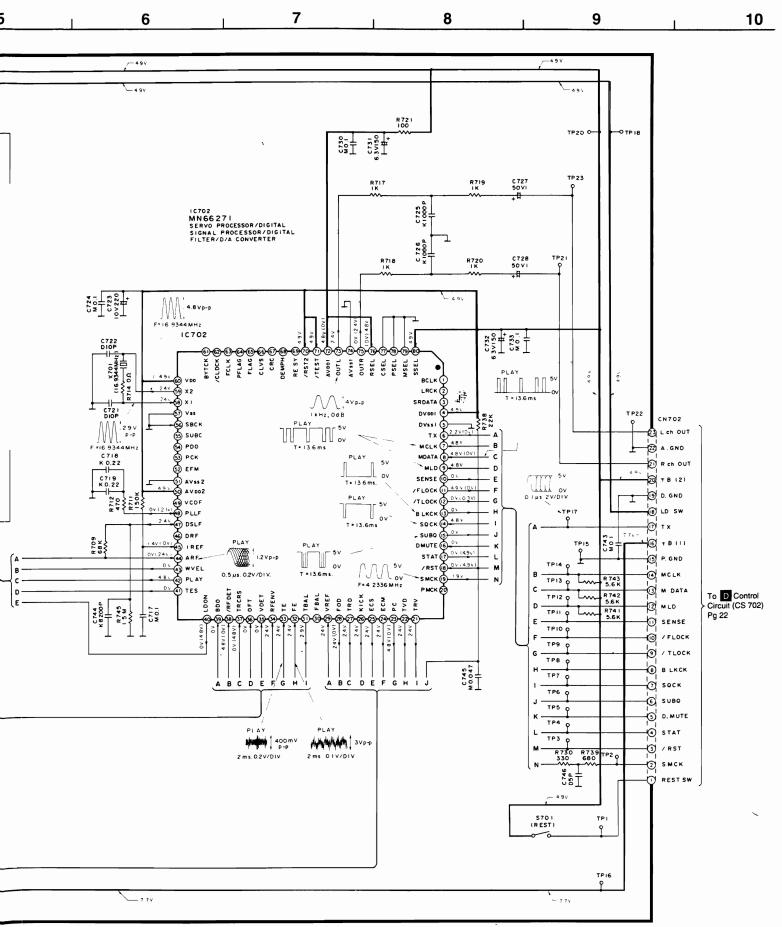


—23 —

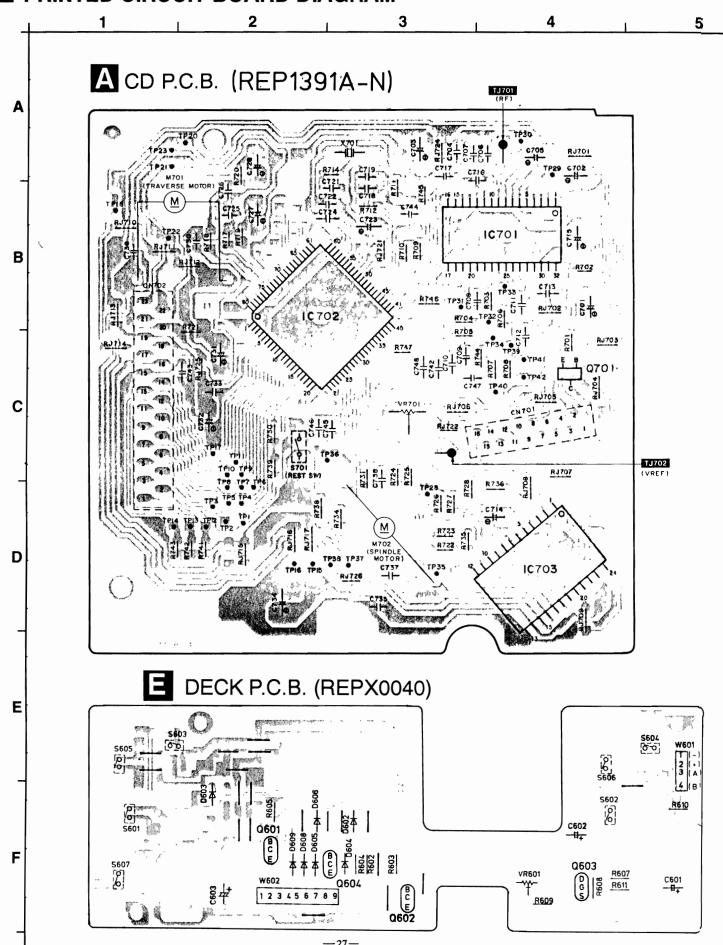


■ SCHEMATIC CIRCUIT



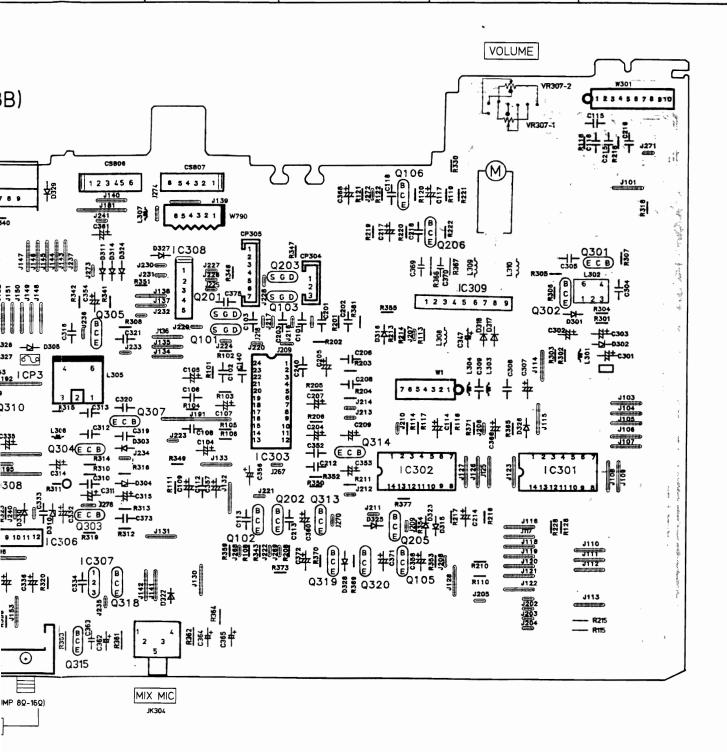


■ PRINTED CIRCUIT BOARD DIAGRAM



6 9 10 PHONES MAIN P.C.B (REPX0038B) 23 4 5 6 7 8 9 10 Q312 1 2 3 4 5 6 7 8 9 R327 H-0343 ICP3 Q310 BCE SSS 743 (Lch) (Rch) $\overline{\odot}$ $\overline{\odot}$ **SPEAKERS SPEAKERS** CD LOADING (REP0767)

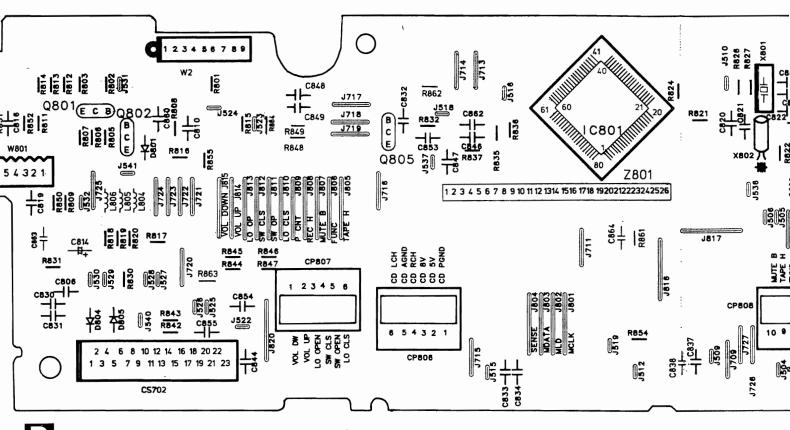
10 , 11 , 11 , 12 , 13 ,



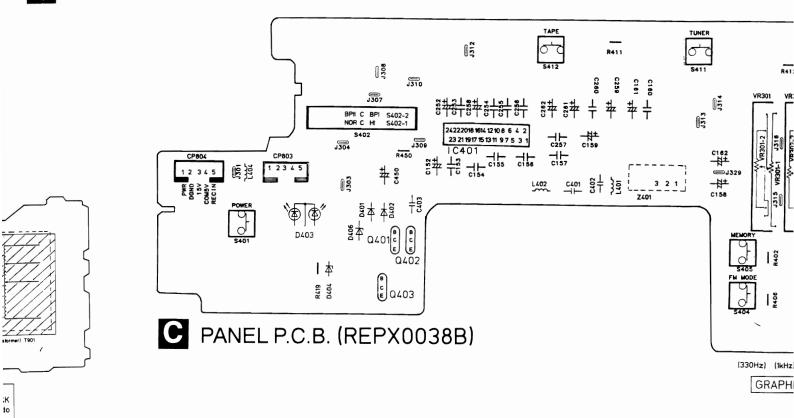
RX-DT670 PRINTED CIRCUIT BOARD DIAGRAM 2 4 5 TUNER P.C.B. (REP0930C) TP7 TP11 TP8 TELESCOPIC ANTENNA TP2 TP1 W801 STE BCE 5 4 3 2 1 В X1 R68 Q13 Q17 E TP6 C 1 St 33 R29 R50 18 17 16 15 14 13 12 11 10 R47 (E) (210) R41, 6 R40 IC2 VR1 Q11 D9 A CA 97 5 34 (E C B) D Q16 TP3 TP10 TP4 TP5 TP9 G POWER SUPPLY P.C.B. 12Z 12 AC IN DC IN VOLTAGE SELECTOR R425 13 2V 12V-15 E R428 9 R424 ₩ w905 CD OPERATION P.C.B 105 + E 05 + (REPX0038B) F

(REPX0019K)

CAUTION RISK OF ELECTRIC SHOCK AC voltage line Please do not touch this portion. 6 , 7 , 8 , 9 , 10



D CONTROL P.C.B (REPX0039B)



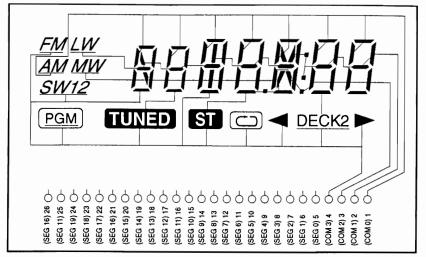
12 10 11 13 11 BATTERY 10UM-1 "D" SIZE BATTERIES 15V Q807 (ECB) 2 1 D809 1 C802 c828 1501 88 1501 W803 J817 5 4321 MUTE B
TAPE H
FUNC
AC STBY
COMES
PREC H
PREC මු ම **** R413 R412 R253 R401 R407 (330Hz) (1kHz) (3.3kHz) (10kHz) XBS GRAPHIC EQUALIZER

14

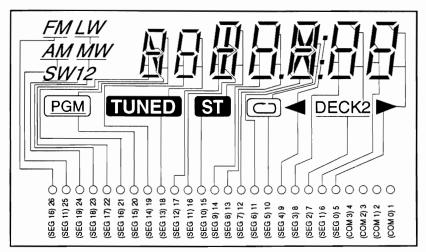
■INTERNAL CONNECTIONS OF LCD (Liquid Crystal Display)

(RSL5084-L)

(COMMON)



(SEGMENT)



■ FUNCTION OF IC TERMINALS

IC703 (AN8389SE1)

Pin No.	Terminal Name	1/0	Function
1	Vcc	1	Power Supply
2	VREF	1	VREF input
3	IN4	ı	Motor driver (4) input
4	IN3	ı	Motor driver (3) input
5	GND	_	Ground connection
6	NC	_	No connection
7	NRESET	ı	Reset input
8	GND	_	Ground connection
9	IN2	ı	Motor driver (2) input
10	PC2	ı	PC2 (power cut) input
11	IN1	1	Motor driver (1) input
12	PC1	ı	PC1 (power cut) input (not used, open)

1 1	Pin No.	Terminal Name	I/O	Function
	13	PVcc1	I	Power supply (1) for driver
	14	PGND1	_	Ground connection (1) for driver
	15	D1-	0	Motor driver (1) reverse-action output
	16	D1+	0	Motor driver (1) forward-action output
	17	D2-	0	Motor driver (2) reverse-action output
	18	D2+	0	Motor driver (2) forward-action output
	19	D3-	0	Motor driver (3) reverse-action output
	20	D3+	0	Motor driver (3) forward-action output
	21	D4-	0	Motor driver (4) reverse-action output
-	22	D4+	0	Motor driver (4) forward-action output
:	23	PGND2	_	Ground connection (2) for driver
	24	PVcc2	1	Power supply (2) for driver

• IC701 (AN8802SCE1V)

	` `	r	· · · · · · · · · · · · · · · · · · ·
Pin No.	Terminal Name	1/0	Function
1_	PDAD	ı	PD A channel signal input with delay
2	PDA	ı	PD A channel signal input without delay
3	LPD	ı	Laser PD connection
4	LD	0	Power supply for LD driving
5	AMPI	I	RF amplifier input
6	Vcc	ı	Power supply connection
7	AMPO	0	RF amplifier output (not used, open)
8	CAGC	ı	AGC loop filter connection
9	ARF	0	RF AGC output
10	CENV	ı	Capacitor connection for RF detection
11	CEA	ı	Capacitor connection for HPF amplifier
12	GND	_	Ground connection
13	LDON	ı	ON/OFF input of LD APC ("H": ON, "L": OFF)
14	TES	ı	Tracking error shunt signal input (" H ": shunt)
15	PLAY	1	Play signal input (" H ": PLAY)
16	WVEL	l_	WVEL control
17	BDO	0	BDO output
18	/RFDET	0	NRFDET output
19	CROSS	0	CROSS output
20	OFTR	0	OFTR output
21	VDET	0	VDET output
22	ENV	0	ENV output
23	TEBPF	ı	Vibration detection input
24	TE	0	Tracking error output
25	FE	0	Focus error output
26	PTO	0	Potentio amplifier output (not used, open)
27	PTI	_	Potentio amplifier inversion input (no use, open)
28	TBAL	1	Tracking balance input
29	FBAL	ı	Focus balance input
30	VREF	0	VREF output
31	PDB	ı	PD B channel signal input without delay
32	PDBD	ı	PD B channel signal input with delay

• IC702 (MN66271RA)

Pin No.	Terminal Name	1/0	Function
1	BCLK	0	Bit clock output for serial data (not used, open)
2	LRCK	0	L/R identification signal output (Not used, open)
3	SRDATA	0	Serial data output (Not used, open)
4	DV _{DD} 1	ı	Power Supply Input (for digital circuit)
5	DVSS1	_	GND (for digital circuit)
6	TX	0	Digital audio interface signal output
7	MCLK	1	Microprocessor command clock signal input (Latches data at first transition)
8	MDATA	ı	Microprocessor command data signal input
9	MLD	ı	Microprocessor command load signal input
10	SENSE	0	Sense signal output (OFT, FESL, MAGEND, NAJEND, POSAD, SFG)
11	/FLOCK	0	Focus servo feeding signal output ("L": Feed)
12	TLOCK	0	Tracking servo feeding signal output ("L": Feed)
13	BLKCK	0	Sub-code block clock signal output (fBLKCK=75 Hz during normal playback)
14	SQCK	ı	External clock signal input for sub-code Q register
15	SUBQ	0	Sub-code Q code output
16	DMUTE	1	Muting input ("H": Mute)
17	STAT	0	Status signal output (CRC, CUE, CLVS, TTSTVP, FCLV, SQCK)
18	/RST	1	Reset input
19	SMCK	0	1/2-divided CLk signal of X'tal oscillating at MSEL="H" (fSMCK=8.4672MHz) 1/4-divided CLk signal of X'tal oscillating at MSEL="L" (fSMCK=4.2336MHz)
20	PMCK	0	1/192-divided CLK signal of X'tal oscillating (fPMCK=88.2 KHz) (Not used, open)
21	TRV	0	Traverse forced feed output
22	TVD	0	Traverse drive output
23	PC	0	Spindle motor ON signal output ("L":ON)
24	ECM	0	Spindle motor drive signal output (forced mode output)
25	ECS	0	Spindle motor drive signal output (Servo error signal output)
26	KICK	0	Kick pulse output
27	TRD	0	Tracking drive output
28	FOD	0	Focus drive output

Pin No.	Terminal Name	1/0	Function
29	VREF	1	D/A (Drive) output (TVD, ECS, TRD, FOD, FBAL, TBAL) Reference voltage input
30	FBAL	0	Focus balance adjustment output (Not used, open)
31	TBAL	0	Tracking balance adjustment output
32	FE	I	Focus error signal input (Analog input)
33	TE	ı	Tracking error signal input (Analog input)
34	RFENV	ı	RF envelope signal input
35	VDET	1	Vibration detection signal input ("H": Detection)
36	OFT	ı	Off-track signal input ("H": Off track)
37	TRCRS	ı	Track cross signal input
38	/RFDET	ī	RF detection signal input ("L": Detection)
39	BDO	1	Dropout signal input ("H": Dropout)
40	LDON	0	Laser on signal output ("H*: ON)
41	TES	0	Tracking error shunt signal output ("H": shunt)
42	PLAY	0	Play signal out ("H": PLAY)
43	WVEL	0	Double speed status signal output ("H": Double speed)
44	ARF	I	RF signal input
45	IREF	I	Reference current input
46	DRF	1	DSL bias (Not used, open)
47	DSLF	1/0	DSL loop filter
48	PLLF	1/0	PLL loop filter
49	VCOF	1/0	VCO loop filter (Not used, open)
50	AVDD2	1	Power supply input (for analog circuit)
51	AVSS2		GND (for analog circuit)
52	EFM	0	EFM signal output (Not used, open)
53	PCK	0	PLL extraction CLK output (fPCK=4.321 MHz during normal playback (Not used, open)
54	PDO	0	Phase comparison signal of EFM and PCK signal (Not used, open)
55	SUBC	0	Sub-code serial data output (Not used, open)
56	SBCK	1	CLK input for sub-code serial data (Not used, open)
57	VSS	_	GND
58	X1	ı	Xtal oscillating cct input (f=16.9344MHz)
59	X2	0	X'tal oscillating cct output (f=16.9344MHz)
60	VDD	ı	Power supply input (for oscillating cct)
61	ВҮТСК	0	Byte CLK output (Not used, open)

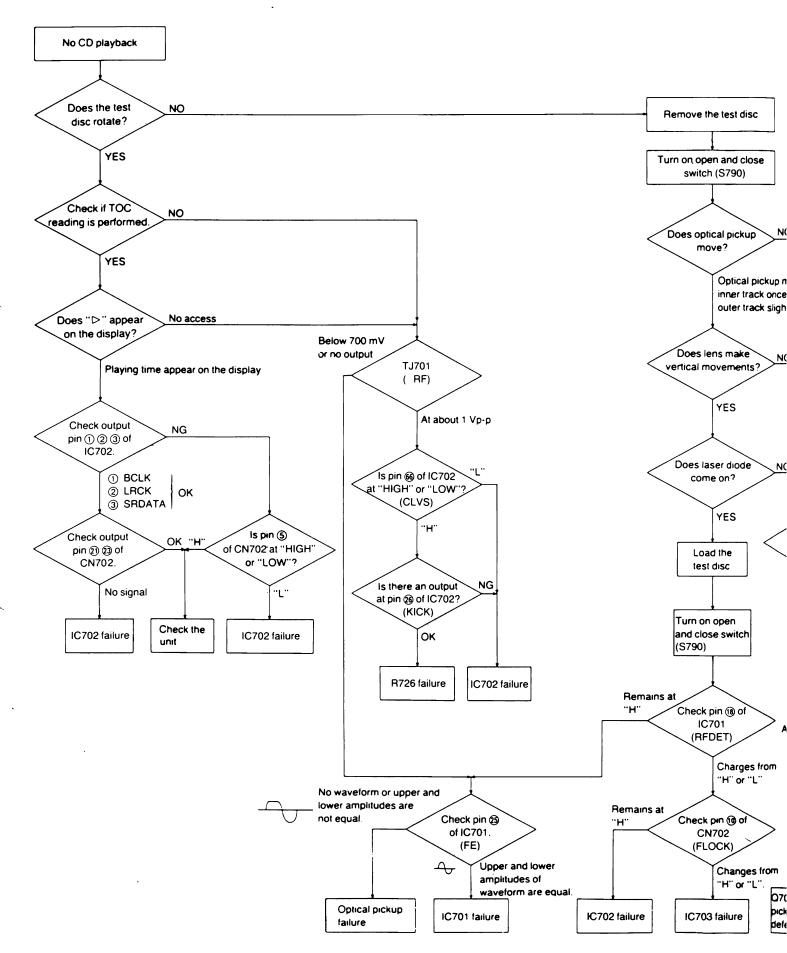
Pin No.	Terminal Name	1/0	Function
62	/CLDCK	0	Sub-code frame CLK signal output (fCLDCK=7.35kHz during normal playback
63	FCLK	0	X'tal frame CLK signal output (fFCLK=7.35kHz,double=14.7kHz)
64	PFLAG	0	Interpolation flag output ("H": Interpolation) (Not used, open)
65	FLAG	0	Flag output (Not used, open)
66	CLVS	0	Spindle servo phase synchronizing signal output ("H": CLV,"L": rough servo) (Not used, open)
67	CRC	0	Sub-code CRC checked output ("H": OK,"L": NG) (Not used, open)
68	DEMPH	0	De-emphasis ON signal output ("H":ON) (Not used)
69	RESY	0	Frame resynchronizing signal output (Not used, open)
70	/RST2	1	Reset input through MASH cct ("L":reset)
71	/TEST	1	Test input
72	AVDD1	1	Power supply input (for analog cct)
73	OUTL	0	Left channel audio signal output
74	AVSS1		GND
75	OUTR	0	Right channel audio signal output
76	RSEL	ı	RF signal polarity assignment input (at "H" level, RSEL="H"; at "L" level, RSEL= "L";
77	CSEL	l	Crystal oscillating frequency designation input ("L": 16.9344MHz, "H": 33.8688MHz)
78	PSEL	ı	Test input (normally, "L") (Not used, open)
79	MSEL	1	Output frequency switching for SMCK terminal "H": SMCK=8.4672MHz "L": SMCK=4.2336MHz (Not used, open)
80	SSEL	I	Output mode switching of SUBQ terminal ("H": Q code buffer mode)

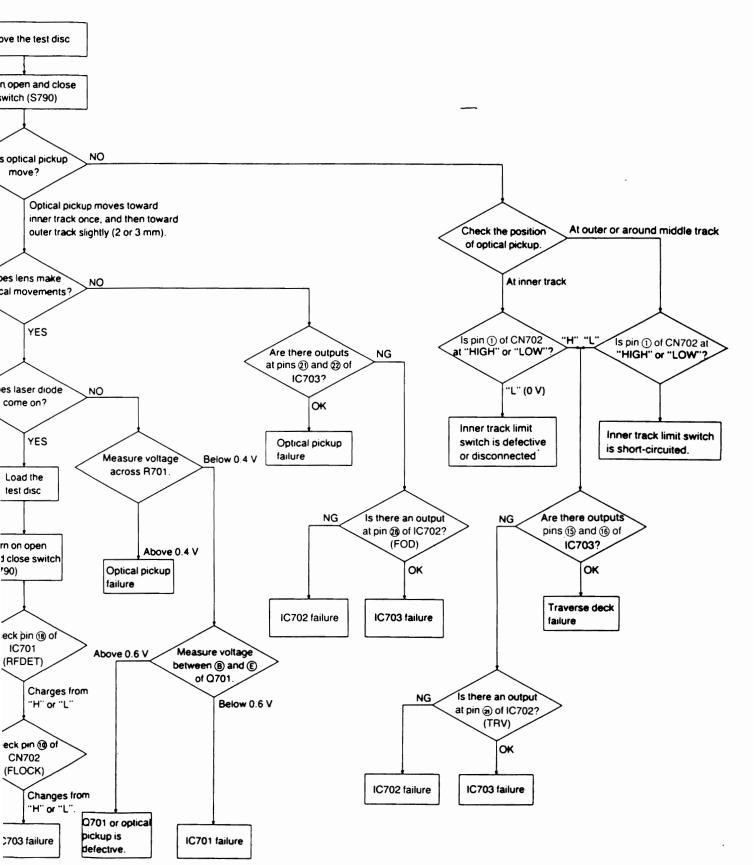
● IC801 (M37410M6H240)

Pin No.	Mark	Function	
1	S19	LCD segment signal ouput	
2	PWR DET	Power detect signal input	
3 ,	KEY3	Key source input	
5	KEY1		
6	AVSS	GND	
7	VREF	A/D converter reference voltage (GND)	
8	VCC	Power supply (+5V)	
9	PLL DATA	PLL tuner data signal output	
10	PLL CK	PLL tuner clock signal output	
11	PLL CE	PLL tuner strove signal output	
12	SW2	Tuner switch2 signal output	
13	MONO/ST	Tuner stereo/mono select signal ouput	
14	ST. IND	Tuner stereo signal input	
15	SD	Auto-stop signal detect input	
16	BLKCK	CD subcode block clock signal input	
17	REST SW	Reset switch (S701) signal input	
18	SQCK	CD subcode clock output	
19	NC		
20	SUBQ	CD subcode data input	
21	MCLK	CD signal process IC control signal output	
22	REMOTE	CD reset signal input	
23	XcIN	Clock input (32.7KHz)	
24	XcOUT	Clock output (32.7KHz)	
25	AC DET	Main switch control signal input	
26	CNVSS	GND	
27	RESET	Power on reset signal input	
28	XIN	Clock input	
29	XOUT	Clock output	
30	VSS	GND	
31	MP1	Microprocessor beat proof 1 output	

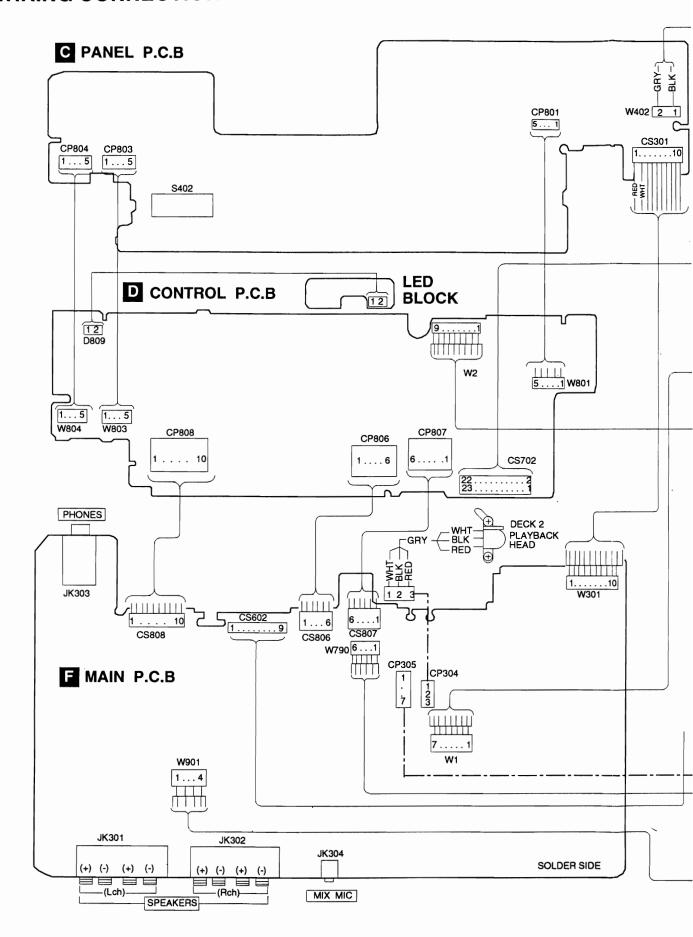
Pin No.	Mark	Function		
32	MP2	Microprocessor beat proof 2 output		
33	MLD	CD signal process strove signal output		
34	MDATA	CD signal process IC data output		
35	SENSE	CD sense signal input		
36	FLOCK	CD focus lock signal input		
37	TLOCK	CD tracking signal input		
38	STAT	CD status signal input		
39	CD RST	CD reset output		
40	VOL UP	Volume control (+) output		
41	VOL DOWN	Volume control (-) output		
42	LO OPEN	CD disc tray loading open output		
43	SW CLOSE	CD close detection switch signal input		
44	SW OPEN	CD open detection switch signal input		
45	LO CLOSE	CD disc tray loading close output		
46	PWR CNT	Power Control signal output		
47	REC H	REC detecting signal input		
48	POWER	Main Power signal input		
49	R2	Region select signal input for Tuner		
50	≀ R1	Band select		
51	MUTE A	AF muting signal output		
52	AUX	Auxillary mode select output (Not used)		
53	FUNCTION	Power supply control signal output (Mode select)		
54	TAPE H	Input selector control signal output (TAPE)		
55	VL3	LCD bias reference voltage V3		
56	VL2	LCD bias reference voltage V2		
57	VL1	LCD bias reference voltage V1		
58	СОМО			
61	сомз	LCD common signal output		
62	S0			
1	ì	LCD segment signal output		
80	S18			

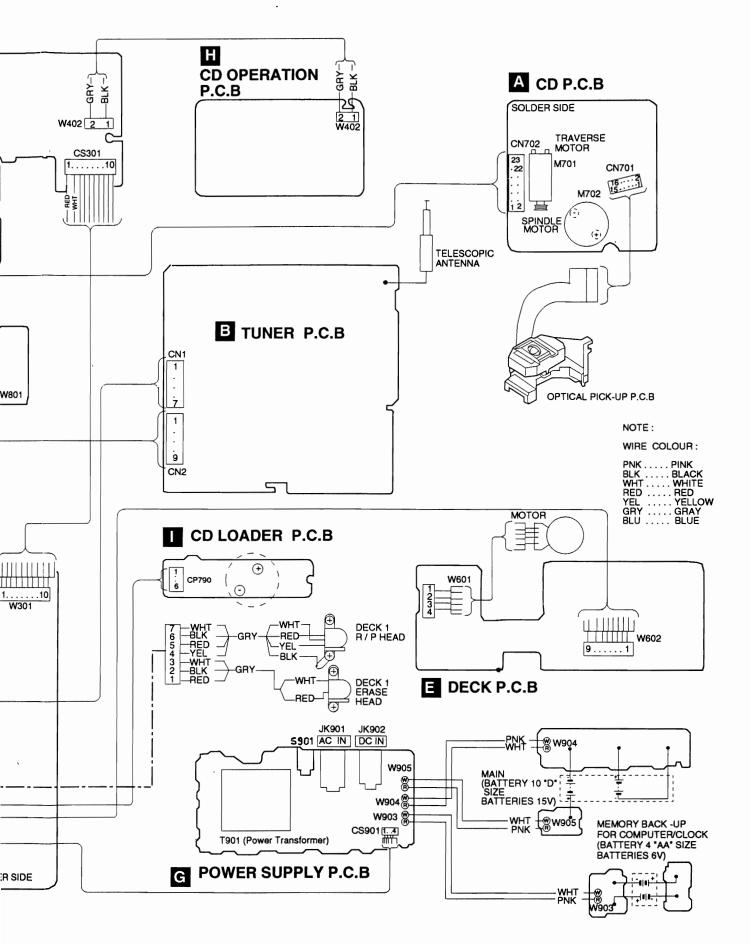
■ TROUBLESHOOTING GUIDE



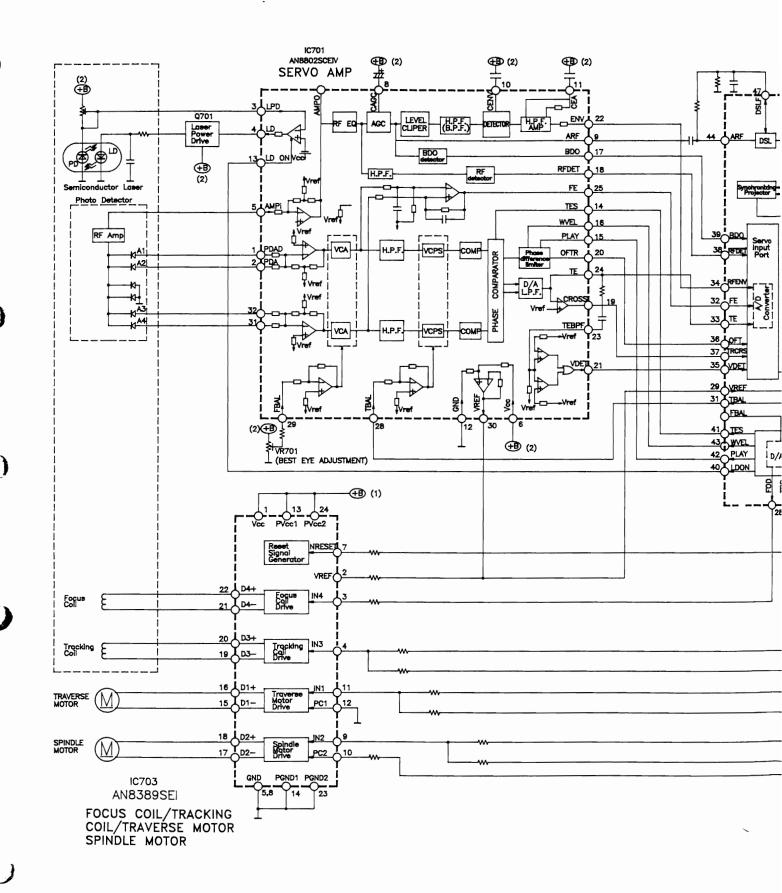


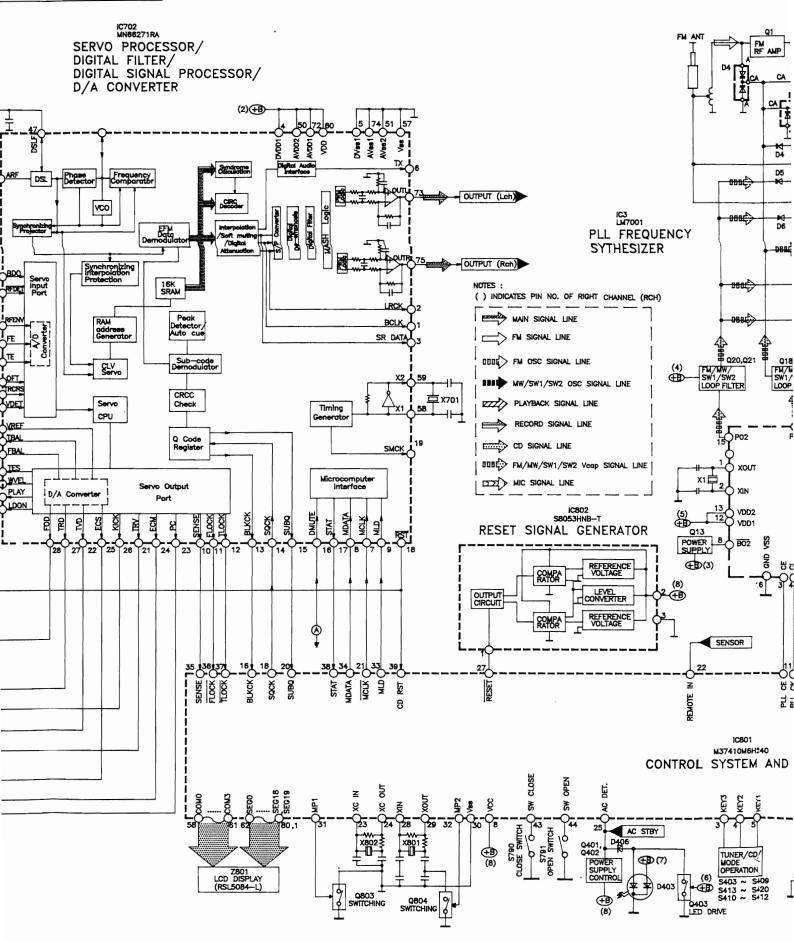
■ WIRING CONNECTION DIAGRAM

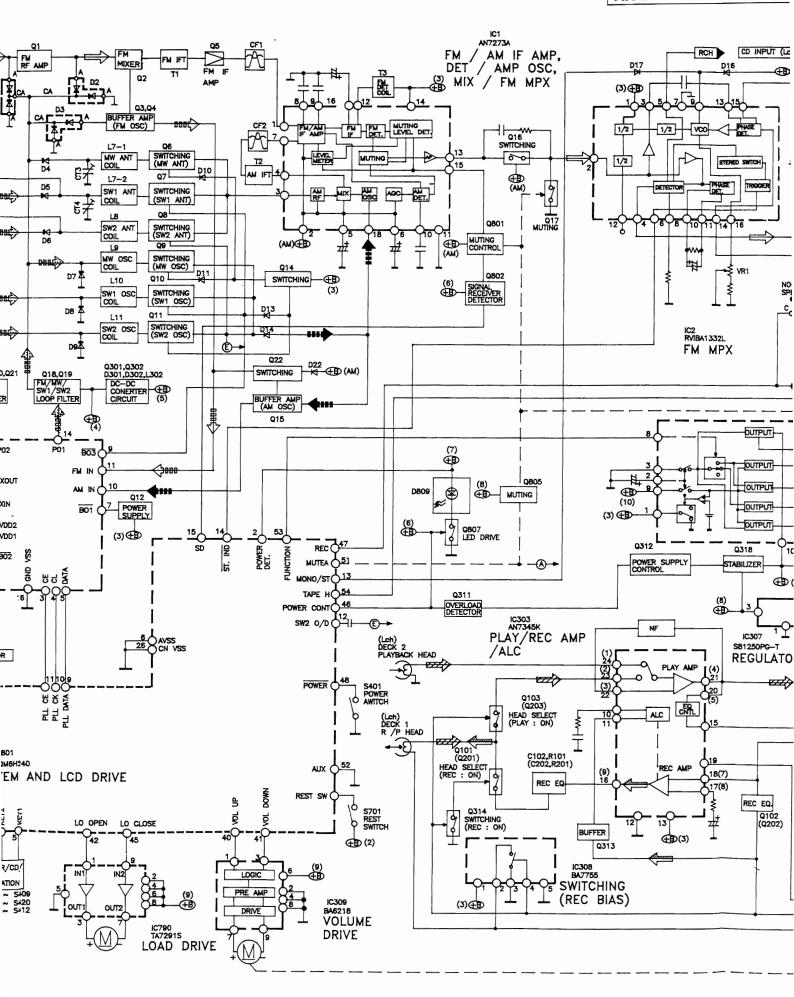


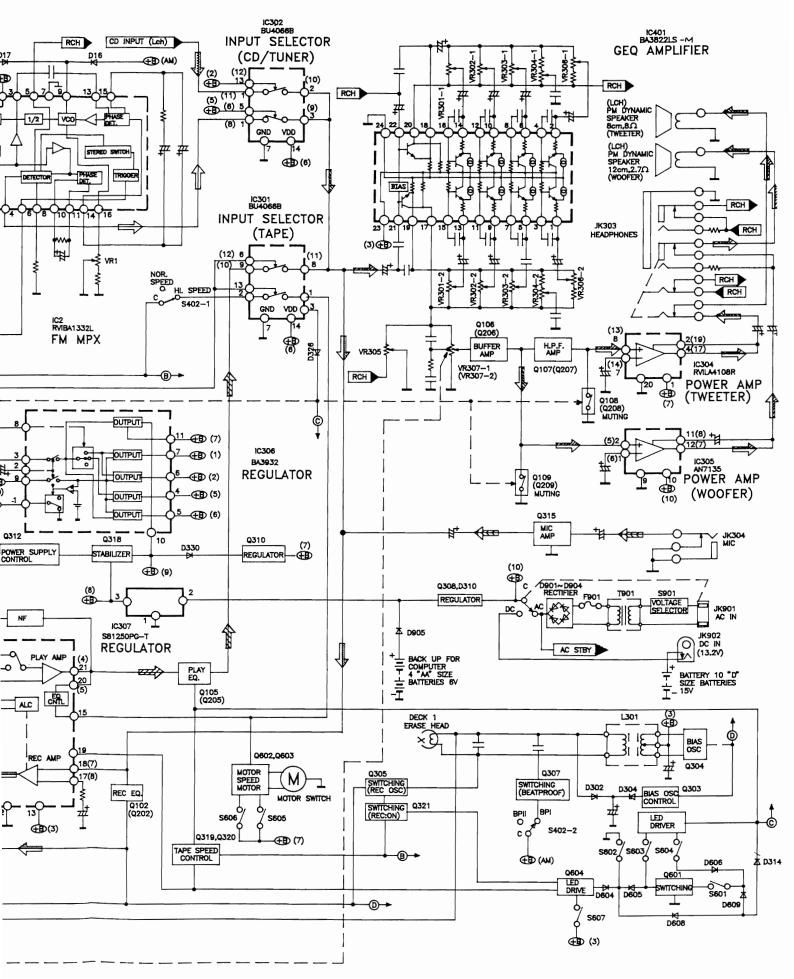


■ BLOCK DIAGRAM









■NEW DIGITAL SERVO CIRCUIT

This model employs a new digital servo circuit. Compared to the old digital servo circuit, the following points have been improved.

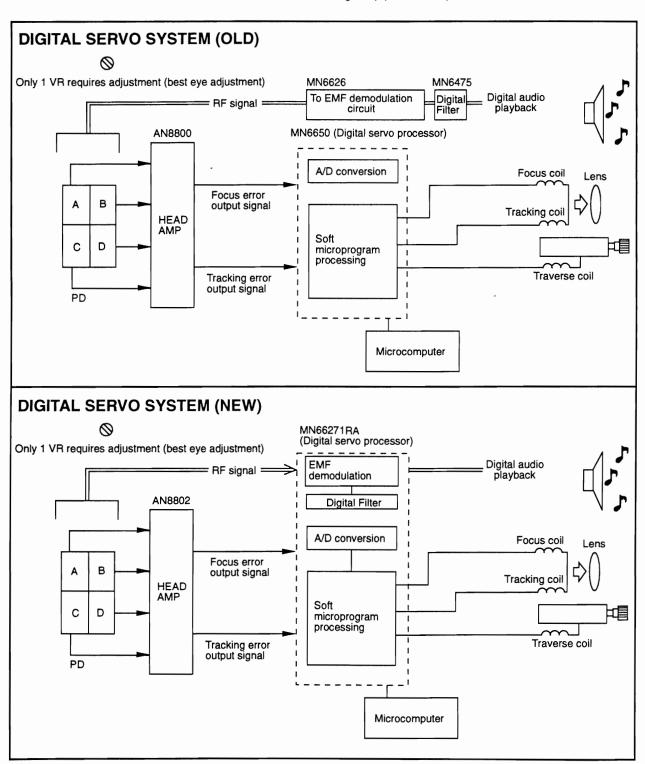
- Reduced operated noise
 Loading mechanism 2-level speed reducer
- Reduced access time
 [(old) 2.9 seconds →(new) 1.9 seconds]
 Change of traverse gear

Tri

TRAVI MOTO

SPINE

- 3. Improved vibration resistance
 Rubber and spring 2-level floating mechanism
 [fo=50 Hz (old) →20 Hz (new)]
- 4. Reduced number of parts
 Use of a single super IC chip
 3 chips (MN6626, MN6650, MN6475) are reduced to a single chip (MN66271RA)

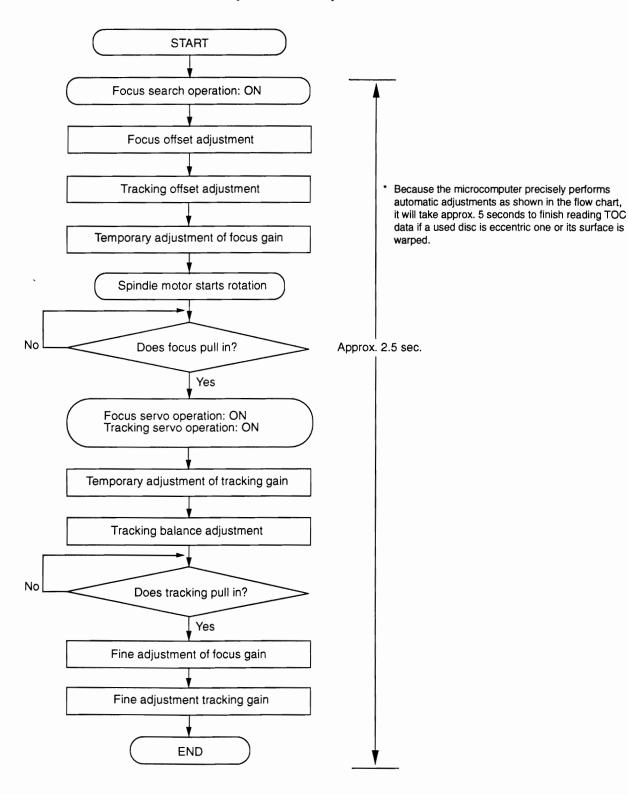


5. The servo processor IC (MN66271RA) of the newly-developed digital servo circuit automatically performs the following adjustments which were originally adjusted manually in the conventional analog servo circuit:

(1) Focus offset, (2) Tracking offset, (3) Focus gain, (4) Tracking gain, and (5) Tracking balance. Therefore, you do not have to perform the above-mentioned electrical adjustments. The unit optimizes the servo for each loaded disc. [You must perform the best eye (PD balance) adjustment manually.]

The following flow chart shows the sequence of automatic adjustments.

• Flow chart on automatic adjustment sequence



MEASUREMENT AND ADJUSTMENT <TUNER SECTION>

■ ALIGNMENT INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

- 1. Set volume control to maximum.
- 2. Set S-XBS control to minimum.
- 3. Set function selector to TUNER/BAND or TAPE.
- 4. Set power source voltage to 15V DC.
- 5. Set band switch to MW/FM/SW1/SW2

- 6. Set graphic equalizer controls to center.
- 7. Set balance control to center.
- 8. Output of signal generator should be no higher than necessary to obtain an output reading.

■ MW-IF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL			REMARKS	
CONNECTIONS	FREQUENCY	SETTING	OSCILLOSCOPE)	(Shown in Fig. 1)		
Fashion a loop of several turns of wire and radiate a signal into the loop ant. of receiver.	450 kHz 30% Mod. at 400Hz	Point of non- interference. (on/about 600 kHz)	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 (MW IFT)	Adjust for maximum output.	

■ MW-RF ALIGNMENT

	531kHz	Tuning capacitor fully closed	TP3(+) TP4(-)	L9 (MW OSC Coil)	Adjust L9, for 1.1 ± 0.15V reading on DC voltmeter across TP7 & TP8 (Gnd).
	1602kHz	Tuning capacitor fully opened			Confirm the AM VCO Volatge to be in the range of 7.7V ± 0.8V range
м	603kHz	Tune to signal	п	(*1) L7-1 (MW ANT Coil)	Adjust for maximum outpu Adjust L7-1 by moving coil along the ferrite core.
*	1,404kHz	Tune to signal		CT3 (MW ANT Trimmer)	Adjust for maximum output

SW1-RF ALIGNMENT

3.2 MHz	Tuning capacitor fully closed	TP3(+) TP4(-)	L10 (SW1 OSC Coil)	Adjust L10, for 2.0 ± 0.15V reading on DC voltmeter across TP11 & TP8.
7.3 MHz	Tuning capacitor fully opened			Confirm the AM VCO Volatge to be in the range of 7.0V ± 0.8V range
•	Tune to signal	•	(*2) L7-2 (SW1 ANT Coil)	Adjust for maximum output. Adjust L7-2 by moving coil along the ferrite core.
7.3 MHz	Tune to signal	u	CT4 (SW1 ANT Trimmer)	Adjust for maximum output.
	7.3 MHz	7.3 MHz fully closed Tuning capacitor fully opened Tune to signal	3.2 MHz fully closed TP4(-) 7.3 MHz Tuning capacitor fully opened Tune to signal	3.2 MHz fully closed TP4(-) Coil) 7.3 MHz Tuning capacitor fully opened

SW2-RF ALIGNMENT

SIGNAL GENERATOR or SWEEP GENERATOR		RADIO DIAL	INDICATOR (ELECTRONIC	ADJUSTMENT	REMARKS	
CONNECTIONS	FREQUENCY	SETTING	VOLTMETER or OSCILLOSCOPE)	(Shown in Fig. 1)		
Connect to test point TP1 through ceramic capacitor(0.001µF) Negative side to test point TP2.	9.5 MHz	Tuning capacitor fully closed	TP3(+) TP4(-)	L11 (SW2 OSC Coil)	Adjust L11, for 2.0 ± 0.15V reading on DC voltmeter across TP11 & TP8.	
	21.85MHz	Tuning capacitor fully opened	•		Confirm the AM VCO Volatge to be in the range of 7.0V ± 0.8V range	
, , , , , , , , , , , , , , , , , , ,	9.5 MHz	Tune to signal	н	L8 (SW2 ANT TRIMMER)	Adjust for maximum output.	

■ FM-IF ALIGNMENT

SIGNAL GENERA SWEEP GENERA		INDICATOR RADIO DIAL (ELECTRONIC SETTING VOLTMETER or		ADJUSTMENT	REMARKS	
CONNECTIONS	FREQUENCY	SETTING	OSCILLOSCOPE)	(Refer to Fig. 1)		
Connect to test point TP1 through ceramic capacitor (0.001µF). Negative side to test point TP2 .		Point of interference. (on/about 90 MHz)	Connect vert. amp. scope to test point TP3. Negative side to test point TP4	T1 (FM 1st)	Wave form is shown in Fig. 3.	

■ "ZERO VOLTAGE" ALIGNMENT

FM SIGNAL GENERATOR SOURCE CONNECTION	EQUIPMENTCONNECTION ELECTRONIC COUNTER	ADJUSTMENT (Refer to Fig. 1)	SPECIFICATION	REMARKS
98 MHz, 60 dB(CW) Connect to test point TP1 through FM dummy antenna. Negative side to TP2	TP9(+) TP10(-)	ТЗ	0 ± 30mV	Adjust T3, for 0 ± 30mV reading on DC voltmeter across TP9 & TP10.

HEAD AZIMUTH ALIGNMENT

TEST TAPE	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	REMARKS
QZZCFM (8kHz, -20dB)	Headphones Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	Azimuth screw (Shown in Fig. 4 & 5)	1. Playback the azimuth adjustment portion (8 kHz, -20 dB) of the test tape (QZZCFM). Vary the azimuth adjusting screw until the outputs of the L-ch and R-ch are maximized and the lisajous waveform, as illustrated, approaches 0 degrees. Notes: When the adjusting positions are different with L-ch and R-ch, find a position where the outputs of L-ch and R-ch are balanced, and then make the adjustment into the range "0 ~ -0.5dB" from the peak.

■ TAPE SPEED ADJUSTMENT

TEST TAPE	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	REMARKS			
	Headphones Jack (32Ω) Fabricate the plug as shown in Fig. 2 and then connect the lead wires of the plug to the measuring instrument.	VR601 (Shown in Fig. 6)	Normal Speed Adjustment 1. Insert a test tape (QZZCWAT) in Deck 2 and play it back. 2. Adjust VR601 until the measured value becomes 3000 ±30Hz. (Adjustment Target Value) (Standard Target Value: 3000 ± 90Hz)			
QZZCWAT (3 kHz)	If it doesn't ,repeat step 1 and 2 Note: This set uses one drive m	Target Value) of the above. notor, so be sure to per	speed of Deck 2. (Standard Target Value: ± 60Hz)			
	High Speed Measurement 4. Insert the playback tape into Deck 2 and the editing tape into Deck 1. 5. Set the Editing Mode Selector to the "HIGH" position. 6. Press the Deck 1 Pause button, then press the Record Button. 7. Press the Deck 2 Playback Button. * Editing is started by means of the Synchro-Start function. 8. Check to ensure that the measured speed is within 5100 Hz. (Adjustment Target Value) (Standard Target Value: 5000Hz)					

■ RECORD BIAS VOLTAGE & FREQUENCY CHECK

TEST TAPE	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT (Refer to Fig. 7)	SPECIFICATION	REMARKS
Use Normal tape	TP101(+) TP102(-)		16.0 ± 2.0mV	-Function selector in Tape position Record mode
Use Normal tape	TP101(+) TP102(-)		100 ± 10KHz	Function selector in Tape position Record mode Confirm sine-wave appears without distortion/abnormal oscillation.

■ BEATPROOF CHECK

TEST TAPE	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT (Refer to Fig. 7)	SPECIFICATION	REMARKS
Use Normal tape	TP101(+) TP102(-)		Frequency Shift from B.P II-I (5 ±1.0kHz)	Set the function selector to Tuner position. Switch edit switch to B.P II. Confrim oscillating waveform to be sinusoidal without distortion /abnormal oscillation

ALIGNMENT POINT

• Please refer to Circuit Board and Wiring Connection Diagram for test point locations.

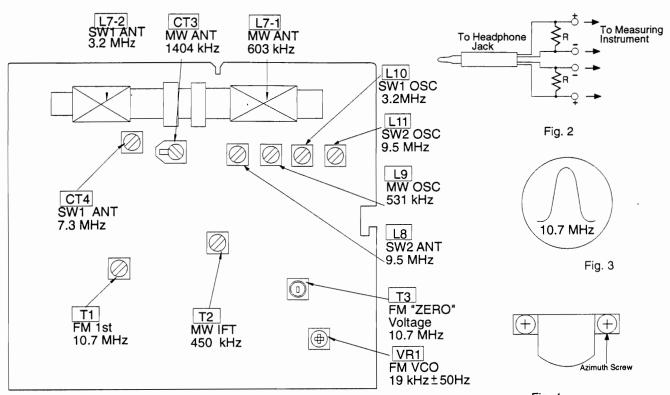


Fig. 1

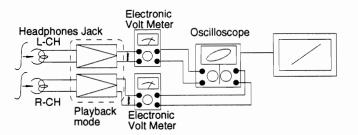


Fig. 5

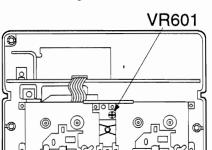


Fig. 6

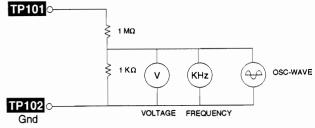


Fig. 7

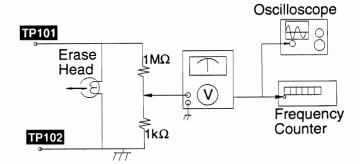


Fig. 8

< Compact Disc Player Section >

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

Measuring Instruments and Special Tools

- * Test discs
 - 1. Playability test disc (SZZP1054C)
 - 2. Uneven test disc (SZZP1056C)
- * Musical program disc (ordinary)

- * Dual-beam oscilloscope with bandwidth of 30 MHz or better (with EXT. trigger and 1:1 probe).
- * Allen wrench (M2.0) (SZZP1101C)
- Lock paint (RZZ0L01)

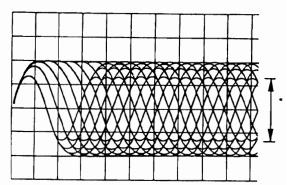
(1) MECHANICAL ADJUSTMENT

- When the traverse deck is replaced, making adjustments is not necessary. (The traverse deck ass'y is already adjusted.)
- Make adjustments to improve playability if the traverse deck has not been replaced.

Switch the player power ON, and play track 19 on the test disc (SZZP1056C).

(Playing any other track will prevent the mechanical adjustment screws from being accessed.)

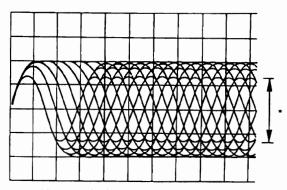
- 3. Leave the player in the play mode .
- Alternately adjust the mechanical adjustment screws with the 2.0mm allen wrench (SZZP1101C) until the vertical fluctuation of RF signal is minimized and the eye pattern is most stretched. (Refer to Fig.2 on page 51)
- After completing the adjustment, lock the mechanical adjustment screws with lock paint (RZZ0L01).



* Most stretched eye pattern

(2) BEST EYE (PD BALANCE) ADJUSTMENT

- Switch the player power ON, and play the 1 kHz (track1) on the test disc (SZZP1054C).
- Adjust VR701 until the vertical fluctuation of RF signal is minimized and the eye pattern is most stretched. (Refer to Fig.1 on page 51)



* Most stretched eye pattern

(3) CHECKING OF PLAY OPERATION AFTER ADJUSTMENT

Checking Skip Search

- 1. Play an ordinary musical program disc.
- 2. Press the skip button to check for normal skip search operation (in both the forward and reverse directions).

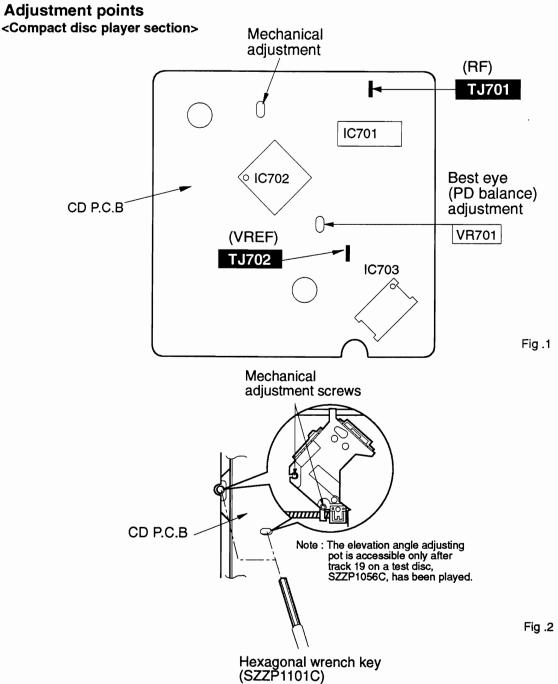
Checking Manual Search

- 1. Play an ordinary musical program disc.
- 2. Press the manual search button to check for smooth manual search operations at either low or high speed (in both the forward and reverse directions).

* Checking Playability

- 1. Play the 0.7 mm black dot and the 0.7 mm wedge on the test disc (SZZP1054C) and verify that no sound skip or noise occurs.
- 2. Play the middle tracks of the uneven test disc (SZZP1056C) and verify that no sound skip or noise occurs.

Adjustment points



■ MECHANISM PARTS LIST

Notes: : [M] Indicates in Remarks columns are parts that are supplied by MESA.

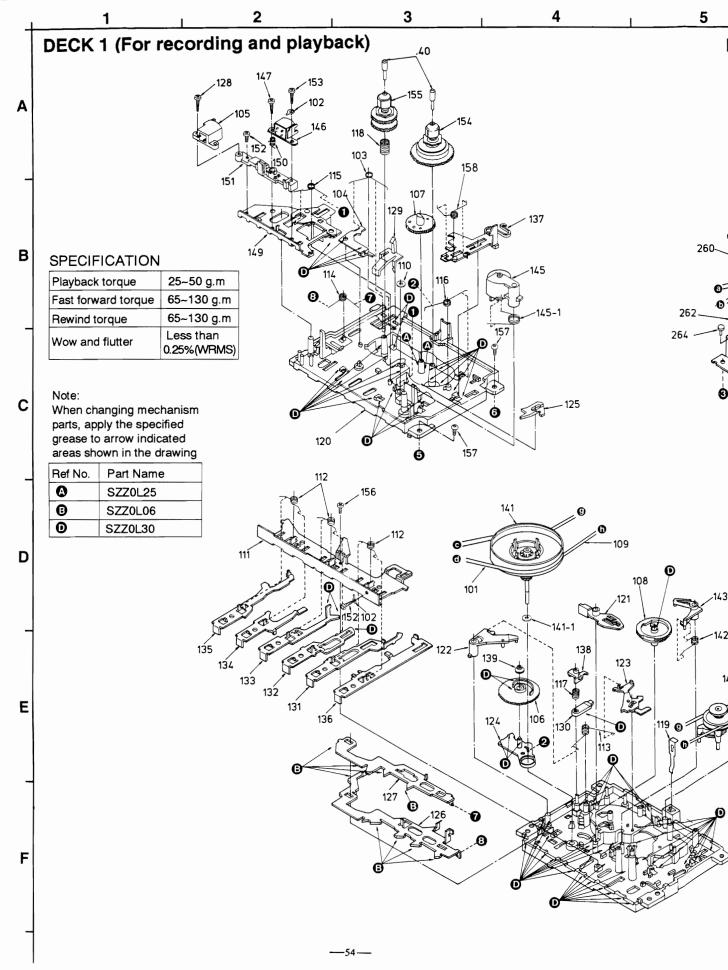
Ref. No	Part No.	Part Name & Description	Remarks	Ref. No	Part No.	Part Name & Description	Remarks
		MECHANISM PARTS LIST		142	RMB0044	TRIGGER SPRING	[M]
				143	RML0075	TRIGGER LEVER	[M]
		DECK 1		144	RXP0014	RF CLUTCH ASSY	[M]
				145	RXP0015	PINCH ROLLER ASSY	[M]
101	RDV0007	MAIN BELT	[M]	145-1	RMB0049	PINCH ARM SPRING	[M]
102	RJR0033	EARTH LUG	[M]	146	RBR4CM001-M	R/P HEAD	[M]
103	RMB0109-1	BRAKE SPRING	[M]	147	RHD20003	SCREW	[M]
104	RML0116	BRAKE ANGLE		149	RFKRGHM09LEK	HEAD BASE ASS'Y	[M]
105	RBR2CG002-S	E HEAD	[M]	150	RMB0059	SPRING	[M]
106	RDG0057	IDLER GEAR	[M]	151	RMR0159	HEAD BASE	[M]
107	RDG0059	FF RELAY GEAR	[M]	152	XTN2+4F	EARTH LUG SCREW	
108	RDK0005	CAM GEAR	[M]	153	XTN2+8F	SCREW	
109	RDV0006-1	RF BELT	[M]	154	RXR0004	TAKE UP REEL ASSY	[M]
110	RHW16009	CAPSTAN WASHER	[M]	155	RXR0005	SUPPLY REEL ASSY	[M]
111	RMA0109	BACK PLATE	[M]	156	XTN2+6J	SCREW	
112	RMB0043-1	ROD OPERATION SPRING	[M]	157	XTW26+6L	SCREW	
113	RMB0045	AS SPRING	[M]	158	RME0098-2	SPRING	[M]
114	RMB0046-1	LOCK PLATE SPRING	[M]				
115	RMB0165	HEAD PANEL SPRING	[M]				
116	RMB0048	IDLER LEVER SPRING	[M]				
117	RMB0053	PAUSE LEVER SPRING	[M]				
118	RMB0125	BACK TENSION SPRING	[M]				
119	RMC0061	SPRING	[M]				
120	RFKRCT090P-K	CHASSIS ASS'Y	[M]				
121	RML0071	SWAY LEVER	[M]				
122	RML0072	AS RELEASE LEVER	[M]				
123	RML0073-1	AS PROTECT LEVER	[M]				
124	RML0074	IDLER LEVER	[M]				
125	RML0076	EJECT SELECTION LEVE	[M]				
126	RML0077	LOCK PLATE	[M]				
127	RML0078	FUNCTION PLATE	[M]				
128	XTN2+6J	BACK PLATE SCREW					
129	RML0081-1	LEVER	[M]				
130	RML0082	PAUSE LEVER	[M]				
131	RMM0023	PLAY ROD	[M]				
132	RMM0024	REW ROD	[M]				
133	RMM0025	FF ROD	[M]				
134	RMM0026	STOP ROD	[M]				
135	RMM0027	PAUSE ROD	[M]				
136	RMM0028	REC ROD	[M]				
137	RMM0029	EJECT SLIDE LEVER	[M]				
138	RMR0211	PAUSE BUSH	[M]				
139	RMR0227	IDLER GEAR BUSH	[M]				
140	RMS0055	REEL SHAFT	[M]				
141	RXF0012	FLYWHEEL ASSY	[M]				
141-1	RHW21008	WASHER	[M]				

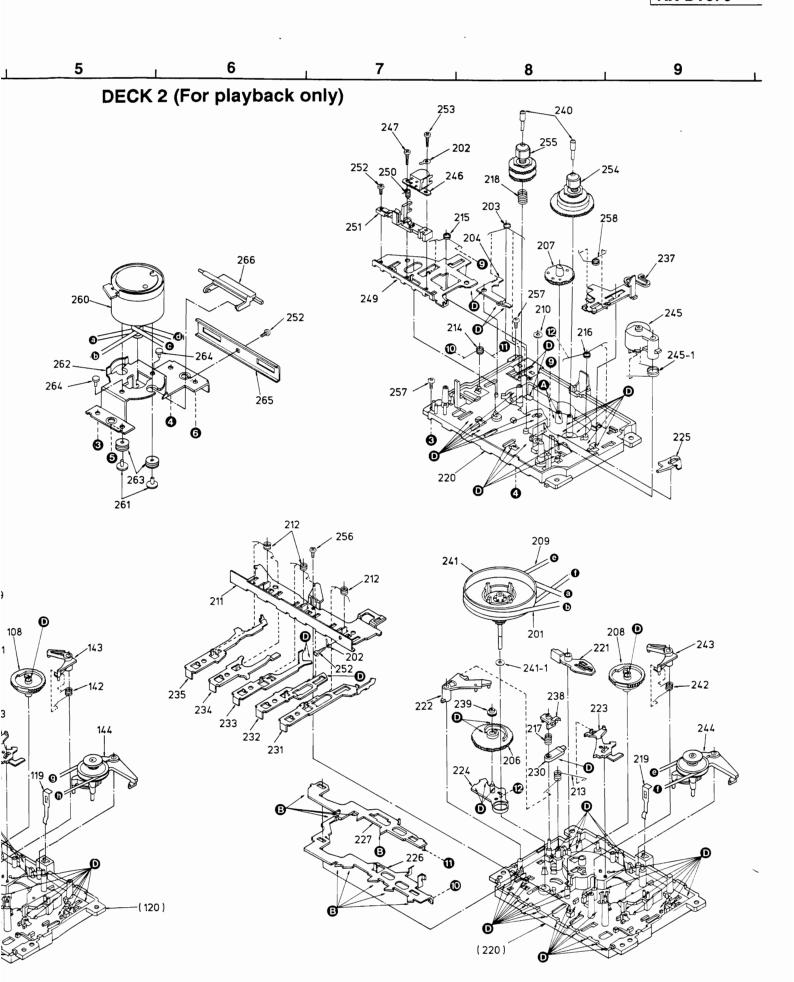
■ MECHANISM PARTS LOCATION

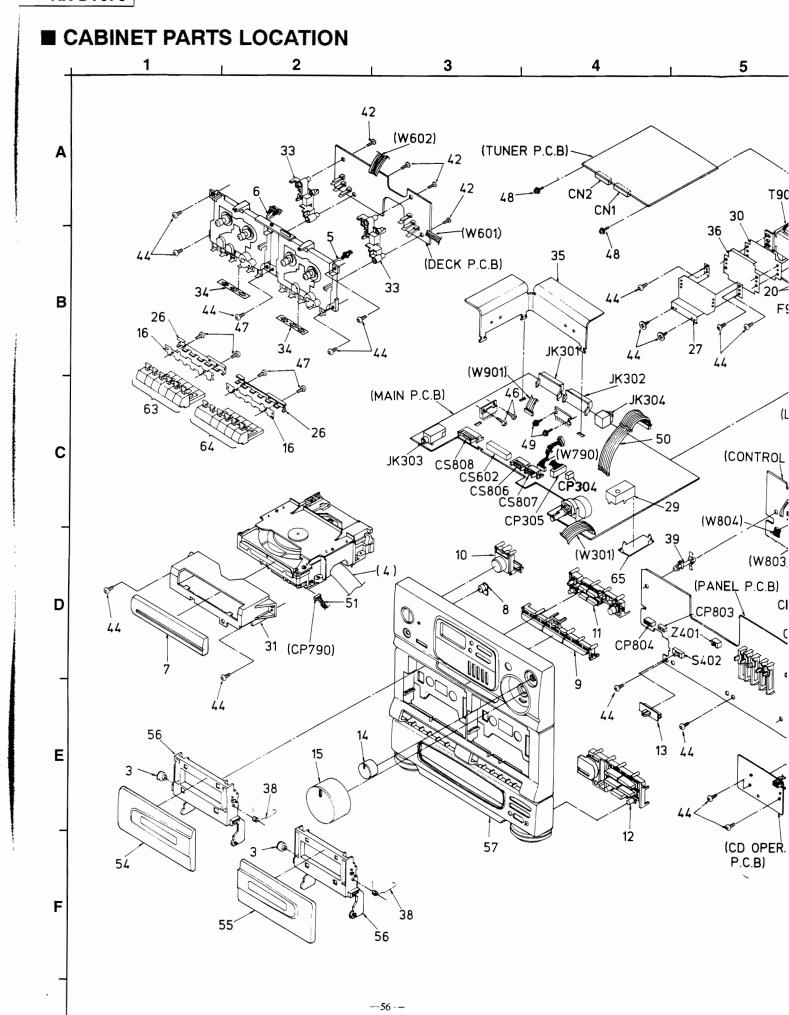
Notes: [M] Indicates in Remarks columns parts that are supplied by MESA.

Ref. No	Part No.	Part Name & Description	Remarks	Ref. No	Part No.	Part Name & Description	Remark
		MECHANISM PARTS LIST		245-1	RMB0049	PINCH ARM SPRING	[M]
				246	RBR4CM001-M	R/P HEAD	[M]
		DECK 2		247	RHD20003	SCREW	[M]
				249	RFKRGHM09LEK	HEAD BASE ASS'Y	[M]
201	RDV0009	MAIN BELT B	[M]	250	RMB0059	SPRING	[M]
202	RJR0033	EARTH LUG	[M]	251	RMR0159	HEAD BASE	[M]
203	RMB0109-1	BRAKE SPRING	[M]	252	XTN2+4F	EARTH LUG SCREW	
204	RML0116	BRAKE		253	XTN2+8F	SCREW	
206	RDG0057	IDLER GEAR	[M]	254	RXR0004	TAKE UP REEL ASSY	[M]
207	RDG0059	FF RELAY GEAR	[M]	255	RXR0005	SUPPLY REEL ASSY	[M]
208	RDK0005	CAM GEAR	[M]	256	XTN2+6J	SCREW	
209	RDV0006-1	RF BELT	[M]	257	XTW26+6L	SCREW	
210	RHW16009	CAPSTAN WASHER	[M]	258	RME0098-2	SPRING	[M]
211	RMA0109	BACK PLATE	[M]	260	RFKPXDT610PK	DC MOTOR ASS'Y	[M]
212	RMB0043-1	ROD OPERATION SPRING	[M]	261	RHD26002	SCREW	
213	RMB0045	AS SPRING	[M]	262	RMA0122	ANGLE	
214	RMB0046-1	LOCK PLATE SPRING	[M]	263	RMG0102	RUBBER SPACE	[M]
215	RMB0165	HEAD PANEL SPRING	[M]	264	RMG0131	RUBBER SPACE	[M]
216	RMB0048	IDLER LEVER SPRING	[M]	265	RMA0121	ANGLE	()
217	RMB0053	PAUSE LEVER SPRING	[M]	266	RML0085	LEVER	[M]
218	RMB0125	BACK TENSION SPRING	[M]				[]
219	RMC0061	SPRING	[M]				
220	RFKRCT090P-K	CHASSIS ASS'Y	[M]				
221	RML0071	SWAY LEVER	[M]				
222	RML0072	AS RELEASE LEVER	[M]				
223	RML0073-1	AS PROTECT LEVER	[M]				
224	RML0074	IDLER LEVER	[M]				
225	RML0076	EJECT SELECTION LEVE	[M]				
226	RML0077	LOCK PLATE	[M]				
227	RML0078	FUNCTION PLATE	[M]				
230	RML0082	PAUSE LEVER	[M]				
231	RMM0023	PLAY ROD	[M]				
232	RMM0024	REW ROD	[M]				
233	RMM0025	FF ROD	[M]				
234	RMM0026	STOP ROD	[M]				
235	RMM0027	PAUSE ROD	[M]				
237	RMM0029	EJECT SLIDE LEVER	[M]				
238	RMR0211	PAUSE BUSH	[M]				
239	RMR0227	IDLER GEAR BUSH	[M]				
240	RMS0055	REEL SHAFT	[M]				
241	RXF0012	FLYWHEEL ASSY	[M]				
241-1	RHW21008	WASHER	[M]				
242	RMB0044	TRIGGER SPRING	[M]				
243	RML0075	TRIGGER LEVER	[M]				
244	RXP0014	RF CLUTCH ASSY	[M]				
245	RXP0015	PINCH ROLLER ASSY	[M]				

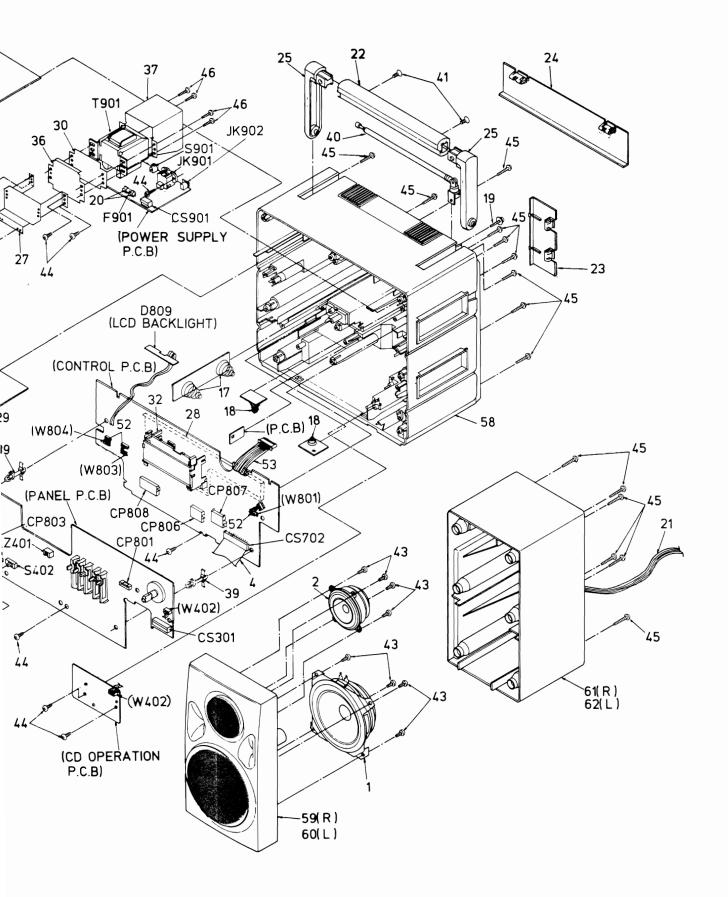
■ MECHANISM PARTS LOCATION (RAA0910)







5 6 7 8 9



■ REPLACEMENT PARTS LIST

Notes: *

Important safety notice:

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

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise

When replacing any of these components ,be sure to use only manufacturer's specified parts shown in the parts list.

Parts without these indications can be used for all areas.

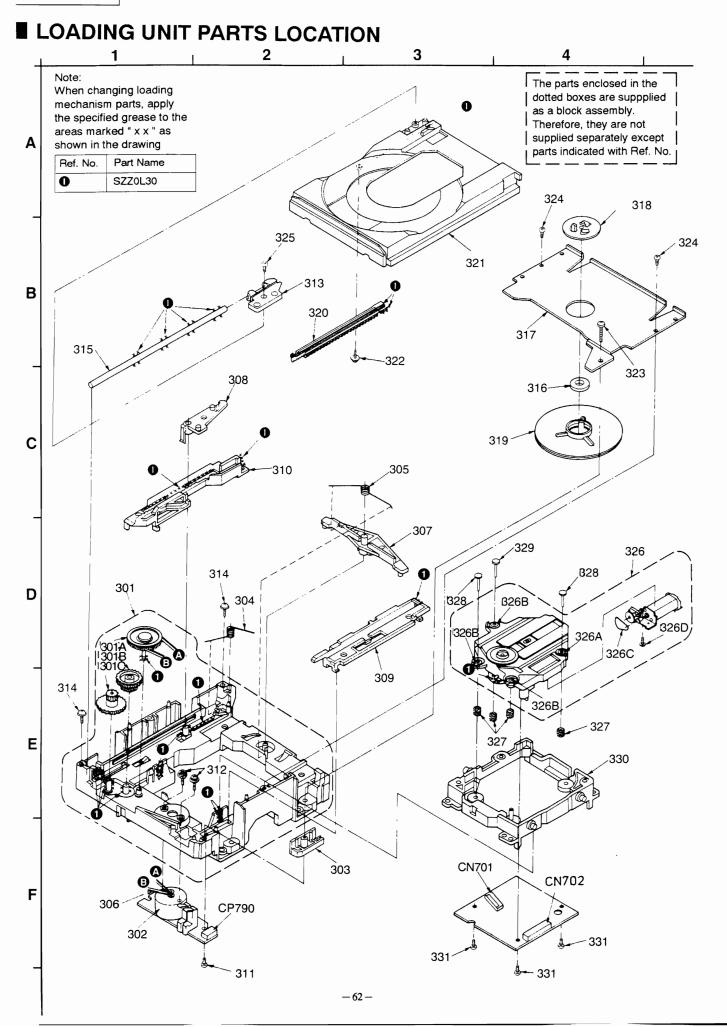
M Indicates in the Remarks columns indicates parts supplied by MESA, (SF) indicates Standard Replacement Parts.

Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
				39	SHR9755	PCB SUPPORT	
		CABINET AND CHASSIS		40	XEARR175ED-Y	ROD ANTENNA	
				41	XTC3+10CFN	HANDLE SCREW	
1	EAS12P463A-G	WOOFER	[M]	42	XTN2+14GF	SCREW FOR PCB	[M]
2	EAS8PH63D-G	TWEETER	[M]	43	XTV3+10G	SP. SCREW	
3	RDG5874ZB	DAMPER GEAR	[M]	44	XTV3+12G	MOUNTING SCREW	
4	REEX0012	FFC WIRE	[M]	45	XTV3+20G	CASING SCREW	
5	REXX0029	DECK 2 TAPE HEAD WIRE	[M]	46	XTV3+8F	SCREW FOR IC/X.FORME	
6	REXX0047-1	DECK 1 TAPE HEAD WIRE	[M]	47	XTV3+8G	MECHA BUTTON SCREW	
7	RGKX0004-H	CD LID	[M]	48	XTWS3+10Q	TUNER PCB SCREW	
8	RGLX0002-Q	LED DISPERSE CAP	[M]	49	XTW3+10F	SCREW FOR IC BA3932	
9	RGUX0030-H	FUNCTION BUTTON	[M]	50	REXX0058-1	WIRE ASS'Y (7P)	[M]
10	RGUX0031-K	POWER BUTTON	[M]	51	REXX0040	WIRE ASS'Y (6P)	[M]
11	RGUX0032-K	TUNER / BAND BUTTON	[M]	52	REXX0055	WIRE ASS'Y (5P)	[M]
12	RGUX0033-K	CD BUTTON	[M]	53	REXX0048	WIRE ASS'Y(9P)	[M]
13	RGVX0009-K	EDITING KNOB	[M]	54	RFKLXDT670P1	CASS.LID ASS'Y(R)	[M]
14	RGWX0010-H	XBS KNOB	[M]	55	RFKLXDT670P2	CASS.LID ASS'Y(L)	[M]
15	RGWX0011-H	VOL. KNOB	[M]	56	RFKLXDT670P3	CASS.HOLDER ASS'Y	[M]
16	RHRX0008	MECHA BUTTON SEAT	[M]	57	RFKGXDT670GC	FRONT CABINET ASS'Y	[M]
17	RJC511ZBS	UM-1 BATT SPRING	[M]	58	RFKHXDT670GC	BACK CABINET ASS'Y	[M]
18	RJC70031YB	UM-3 BATT SPRING	[M]	59	RFKGXDT670PA	SP.FRONT CAB.ASS'Y(R	[M]
19	XYN3+F8FY	R. ANT SCREW		60	RFKGXDT670PB	SP.FRONT CAB.ASS'Y(L	[M]
20	RJF28ZA	FUSE HOLDER		61	RFKHXDT670PA	SP.REAR CAB.ASS'Y(R)	[M]
21	RJL4W001W22	SPEAKER CORD	[M]	62	RFKHXDT670PB	SP.REAR CAB.ASS'Y(L)	[M]
22	RKH0012-H	HANDLE BAR	[M]	63	RGZX0007A-H	MECHA BUTTON BLOCK	[M]
23	RKK0035-H	BATTERY COVER (UM-3)	[M]	64	RGZX0007B-H	MECHA BUTTON BLOCK	[M]
24	RKK347ZB-7	BATTERY COVER (UM-1)	[M]	65	RMC1228ZA	D-D SHIELD PLATE	[M]
25	RKX0021-H	HANDLE ARM	[M]				
26	RMAX0006	ANGLE BAR	[M]			INTEGRATED CIRCUITS	
27	RMAX0008	TRANSFORMER SUPPORT	[M]				
28	RMAX0010	SHIELD PLATE	[M]	IC1	AN7273A	IC, FM/AM IF	
29	RMC1227ZA	D - D CONVERTER SHIE	[M]_	IC2	RVIBA1332L	IC, FM MPX	
30	RMC1257ZA	TRANS SHIELD PLATE	[M]	IC3	LM7001	IC, PLL	
31_	RMKX0003-K	CD CHASSIS	[M]	IC301	BU4066B	IC, SIGNAL SW	
32	RMNX0002-W	LCD HOLDER	[M]	IC302	BU4066B	IC, SIGNAL SW	
33	RMR0368	CHASSIS	[M]	IC303	AN7345K	IC, PRE/REC AMPLIFIER	[M]
34	RMXX0004	SPACER	[M]	IC304	RVILA4108R	IC, POWER AMPLIFIER	\wedge
35	RMYX0005	HEAT SINK	[M]	IC305	AN7135	IC, POWER AMPLIFIER	\triangle
36	RSC0094	TRANS SHIELD PLATE	[M]	IC306	BA3932	IC, POWER REGULATOR	\triangle
37	RSC0163-2	TRANS SHIELD PLATE	[M]	IC307	S81250PG-T	IC, 5V REGULATOR	[M]
38	RUS781ZA	OPEN SPRING	[M]	IC308	BA7755	IC, HEAD SW	

Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
IC309	BA6218	IC, MOTOR DRIVER		Q206	2SC1740SRTA	TRANSISTOR	
IC401	BA3822LS-M	IC, G. EQUALIZER	[M]	Q207	2SC1684HRTA	TRANSISTOR	
IC801	M37410M6H240	IC, MICRO COMPUTER	[M]	Q208	2SD1020HTA	TRANSISTOR	[M]
IC802	S8053HNB-T	IC, RESET		Q209	2SD1020HTA	TRANSISTOR	[M]
				Q301	2SC2785FTA	TRANSISTOR	
		IC PROTECTORS		Q302	2SC2785FTA	TRANSISTOR	
				Q303	2SC1740SRTA	TRANSISTOR	
ICP2	SRUN10T	IC PROTECTOR	$\overline{\mathbb{A}}$	Q304	2SC2001KTA	TRANSISTOR	
ICP3	SRUN20T	IC PROTECTOR	\triangle	Q305	2SC2001KTA	TRANSISTOR	
ICP4	SRUN5T	IC PROTECTOR	\triangle	Q307	2SC1685RTA	TRANSISTOR	[M]
				Q308	2SC2785FTA	TRANSISTOR	
		TRANSISTORS		Q310	2SD2037ETA	TRANSISTOR	[M]
				Q311	RVTDTC114EST	TRANSISTOR	-
Q1	2SK544F-AC	TRANSISTOR		Q312	RVTDTA114EST	TRANSISTOR	•
Q2	2SC2786MTA	TRANSISTOR		Q313	RVTDTC114EST	TRANSISTOR	
Q3	2SC2786MTA	TRANSISTOR		Q314	RVTDTC114EST	TRANSISTOR	
Q4	2SC2786MTA	TRANSISTOR		Q315	2SC1684HRTA	TRANSISTOR	
Q5	2SC829BTA	TRANSISTOR		Q318	RVTDTA114EST	TRANSISTOR	
Q6	2SA564STA	TRANSISTOR	[M]	Q319	RVTDTA114TST	TRANSISTOR	
Q7	2SA564STA	TRANSISTOR	[M]	Q320	RVTDTA114EST	TRANSISTOR	
Q8	2SA564STA	TRANSISTOR	[M]	Q321	2SA564RTA	TRANSISTOR	
Q9	2SA564RTA	TRANSISTOR		Q401	RVTDTA143XST	TRANSISTOR	
Q10	2SA564RTA	TRANSISTOR		Q402	RVTDTC143XST	TRANSISTOR	
Q11	2SA564RTA	TRANSISTOR		Q403	RVTDTC144EST	TRANSISTOR	
Q12	BN1L3NTA	TRANSISTOR	[M]	Q601	BA1A4MTA	TRANSISTOR	[M]
Q13	BN1L3NTA	TRANSISTOR	[M]	Q602	BA1A4MTA	TRANSISTOR	[M]
Q14	BN1L3NTA	TRANSISTOR	[M]	Q603	2SK301QTA	TRANSISTOR	[M]
Q15	2SC829CTA	TRANSISTOR		Q604	BN1A4MTA	TRANSISTOR	[M]
Q16	2SA564RTA	TRANSISTOR		Q801	2SC2785FTA	TRANSISTOR	
Q17	2SC2785FTA	TRANSISTOR		Q802	2SA564RTA	TRANSISTOR	
Q18	2SC2784FTA	TRANSISTOR	[M]	Q803	2SC1740SSTA	TRANSISTOR	
Q19	2SC2784FTA	TRANSISTOR	[M]	Q804	2SC1740SSTA	TRANSISTOR	
Q20	2SC2784FTA	TRANSISTOR .	[M]	Q805	RVTDTC113ZST	TRANSISTOR	
Q21	2SC2784FTA	TRANSISTOR	[M]	Q807	2SC2001KTA	TRANSISTOR	
Q22	2SC829CTA	TRANSISTOR					
Q101	2SJ40CDTA	TRANSISTOR				DIODES	
Q102	RVTDTC124EST	TRANSISTOR	[M]				
Q103	2SJ40CDTA	TRANSISTOR		D1~3	1SV147T4MATU	DIODE	
Q105	2SD1020HTA	TRANSISTOR	[M]	D4~9	RVDSVC321	DIODE	
Q106	2SC1740SRTA	TRANSISTOR		D10	RVD1SS133TA	DIODE	
Q107	2SC1684HRTA	TRANSISTOR		D11	RVD1SS133TA	DIODE	
Q108	2SD1020HTA	TRANSISTOR	[M]	D12	RVDMTZ5R6BTA	DIODE	
Q109	2SD1020HTA	TRANSISTOR	[M]	D13~20	RVD1SS133TA	DIODE	
Q201	2SJ40CDTA	TRANSISTOR		D301	RVD1SS133TA	DIODE	
Q202	RVTDTC124EST	TRANSISTOR	[M]	D302	RVDMTZ11BTA	DIODE	
Q203	2SJ40CDTA	TRANSISTOR		D303	RVD1SS133TA	DIODE	
Q205	2SD1020HTA	TRANSISTOR	[M]	D304	RVDMTZ18BTA	DIODE	[M]

Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
D305	RVDMTZ6R8BTA	DIODE		S403	EVQ21405R	SW, BAND	
D307	RVD1SS133TA	DIODE		S404	EVQ21405R	SW, FM MODE	
D309	RVDMTZ8R2CTA	DIODE	[M]	S405	EVQ21405R	SW, MEMORY	
D310	RVDMTZ11BTA	DIODE		S406	EVQ21405R	SW, TUNE DOWN(-)	
D311	RVD1SS133TA	DIODE		S407	EVQ21405R	SW, TUNE UP (+)	
D313	RVDMTZ5R1BTA	DIODE		S408	EVQ21405R	SW, PRESET DOWN (-)	
D314~318	RVD1SS133TA	DIODE		S409	EVQ21405R	SW, PRESET UP (+)	
D320	RVD1SS133TA	DIODE		\$410	EVQ21405R	SW, CD	
D321	RVD1SS133TA	DIODE		S411	EVQ21405R	SW, TUNER	
D322	RVDMTZ6R8BTA	DIODE		S412	EVQ21405R	SW, TAPE	
D323~330	RVD1SS133TA	DIODE		S413	EVQ21405R	SW, CD OPEN/CLOSE	
D401	RVD1SS133TA	DIODE		S414	EVQ21405R	SW, CD PLAY/PAUSE	
D402	RVD1SS133TA	DIODE		S415	EVQ21405R	SW, CD STOP/CLEAR	
D403	LN11WP23TDA	DIODE	[M]	S416	EVQ21405R	SW, CD REPEAT	
D404	RVDMTZ8R2CTA		[M]	S417	EVQ21405R	SW, CD SKIP/SEARCH	
D406	RVDMTZ7R5BTA	DIODE		S418	EVQ21405R	SW, REVSKIP/SEARCH	
D602~606	RVD1SS133TA	DIODE		S419	EVO21405R	SW, CD EDIT/PAUSE	
D608,609	RVD1SS133TA	DIODE		S420	EVQ21405R	SW, CD MEMORY/RECALL	
D801,802	RVD1SS133TA	DIODE		S601	RSH1A004-1	SW, PB1	[M]
D803	RVDMTZ5R1BTA	DIODE		S602	RSH1A004-1	SW, PB2	[M]
D804	RVD1SS133TA	DIODE		S603	RSH1A004-1	SW, CUE/REV1	[M]
D805	RVD1SS133TA	DIODE		S604	RSH1A004-1	SW, CUE/REV2	[M]
D809	LN063608P	DIODE	[M]	S605	RSH1A013-J	SW, M1	[M]
D901~904	1N5402BM21	DIODE		S606	RSH1A013-J	SW, M2	[M]
D905	RVDISS133TA	DIODE	$\overline{\wedge}$	S607	RSH1A004-1	SW, REC	[M]
				S901	RSR3A01ZA-H	VOLTAGE SELECTOR	\wedge
		VARIABLE RESISTORS					
						CONNECTORS	
VR1	EVNDXAA00B14	VR, TRIMMER POT.					
	EWAJQAW05G54		[M]	CN1	SJT3711	CONNECTOR (7P)	
VR302	EWAJQAW05G54		[M]	CN2	SJT3909	CONNECTOR (9P)	
VR303	EWAJQAW05G54		[M]	CP304	RJP3G18ZA	CONNECTOR(3P)	
VR304	EWAJQAW05G54		[M]	CP305	RJP7G18ZA	CONNECTOR (7P)	
VR305	EWAJUAW05G15		[M]	CP801	RJP5G18ZA	CONNECTOR (5P)	
VR306	EWC2UAF15C54	VR, XBS	[M]	CP803	RJP5G18ZA	CONNECTOR (5P)	
VR307	EUWMQ0F25B54	VR, VOL WITH MOTOR		CP804	RJP5G18ZA	CONNECTOR (5P)	
VR601	EVNDXAA00B24	VR, TRIMMER POT.	[M]	CP806	RJT003K006M1	CONNECTOR (6P)	
1001	LTIDAAAOOB24	VA, TRIMINIER FUI.		CP807	RJT003K006M1	CONNECTOR (6P)	
		VARIABLE CAPACITORS		CP808	RJT003K006M1	CONNECTOR (10P)	
		TARIABLE CAPACITORS		CS901	RJS4T6ZA	CONNECTOR (10P)	
CT3	RCV10AF1T-S	TRIMMER CAPACITOR		C3901	KJ5410ZA	CONNECTOR (4P)	
CT4	ECRLA010A53R	TRIMMER CAPACITOR				COILS & TRANSFORMERS	
C14	LCKLAUIUAJJK	TRIVINIER CAPACITOR				COILS & INAISPORMERS	
		CWITCHEC		12	DI AAVOOLE	COIL EM ANT	OM)
		SWITCHES		L2	RLA4Y001-E	COIL, FM ANT	[M]
0401	EVO21405B	CW DOWER		L3	RLA4Y002-E	COIL, FM ANT	[M]
\$401	EVQ21405R	SW, POWER		LA	RLQZP1R2KT-Y	COIL, RF CHOKE	0.0
S402	RSS2B73ZA-H	SW, EDIT		L6	RLQY30S1W	COIL, FM RF CHOKE	[M]

Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
L7	RLV5C002-0	COIL, F. ANT				FUSES	
L8	RL03B96-M	COIL, SW2 ANT					
L9	RL02B126-M	COIL, MW OSC	[M]	F901	XBA2C40TB0	FUSE	<u>^</u>
L10	RL03B97-M	COIL, SW 1 OSC					
L11	RL03B96-M	COIL, SW 2 OSC				JACKS	
L15	RLQZP101KT-Y	COIL					
L17	RLQZP100KT-Y	COIL		JK301	RJF1098YA-H	SPEAKER JACK	[M]
L301	RLQZP221KT-Y	COIL, RF CHOKE		JK302	RJF1098YA-H	SPEAKER JACK	[M]
L302	RL09B007-M	COIL, DC-DC CONVERTER		JK303	RJJ3BT01-1H	H.P. JACK	
L303	RLQZP221KT-Y	COIL, RF CHOKE		JK304	RJJ1D25ZA-C	MIC JACK	
L304	RLQZP221KT-Y	COIL, RF CHOKE		JK901	RJJ1SE01-H	AC JACK	\triangle
L305	RL08R001-T	COIL, BIAS OSC	[M]	JK902	RJJB3ZD-C	DC-1N JACK	\triangle
L306	RLQZB470KT-D	COIL, RF CHOKE					
L307	RLQZB101KT-D	COIL, CHOKE				PACKING MATERIALS	
L308	RLQZB101KT-D	COIL, CHOKE					
L309	RLQV472K-Z	COIL, RF CHOKE		Pl	RPGX0094	GIFT BOX	[M]
L310	RLQV472K-Z	COIL, RF CHOKE		P2	RPH3SZA	MIRAMAT SHEET	[M]
L401	RLQZP2R2KT-Y	COIL, RF CHOKE		P3	RPNX0013	POLYFOAM	[M]
L402	RLQZP2R2KT-Y	COIL, RF CHOKE					
L404	RLQZPR47KT-Y	COIL				ACCESSORIES	
L801	RLQZP2R2KT-Y	COIL, RF CHOKE					
L802	RLQZPR47KT-Y	COIL		A1	RQT2017-G	INSTR. BOOK	[M]
L803	RLQZP1R0KT-Y	COIL		A2	RJA0019-2K	AC CORD	(SF)
L804	RLQZP2R2KT-Y	COIL, RF CHOKE		A3	EUR642160	REMO-CON UNIT	[M]
L805	RLQZP2R2KT-Y	COIL, RF CHOKE		A4	SJP5213-2	AC CORD ADAPTOR	
L806	RLQZP2R2KT-Y	COIL, RF CHOKE					
T1	RLI4B153-M	FM IFT			1334		
T2	RLI2B153-M	AM IFT					
T3	SLI4B524-Z	FM DET COIL					
T901	RTP1M1E001-X	POWER TRANSFORMER	[M] /	7			
		COMPONENT COMBINATI	ON				
Z401	RCDGP1U58XD	REMOTE CONTRL SENSOR		-			
Z801	RSL5084-L	LCD	[M]				
		CERAMIC FILTERS					
CF1	RLFFETWNA01L	FM CF		_			
CF2	RVFSFZ450HL3	AM CF	[M]				
		OSCILLATORS					
X1	SVQ49U722T-S	XTAL 7.2MHZ					
X801	RSXZ4M19M01T	CERAMIC RESONATOR(4)					
X802	RSXD32K7S02	X'TALL RESONATOR (3)	[M]	П			



■ CD REPLACEMENT PARTS LIST

Ref. No	Part No.	Part Name & Description	Remarks	Ref. No	Part No.	Part Name & Description	Remarks
		INTEGRATED CIRCUITS				LOADING PARTS	
IC701	AN8802SCE1V	I.C, SERVO AMP		301	RFKJLPG440BK	CHASSIS ASS'Y	
IC702	MN66271RA	I.C, SERVO PROCESSOR		301A	RDG0142	LOADING GEAR	
IC703	AN8389SE1	I.C. MOTOR DRIVE		301B	RDG0193	LOADING GEAR	
IC790	TA7291S	I.C, MOTOR DRIVE		301C	RDP0041	PULLEY	
				302	REM0019	MOTOR PULLEY	
		TRANSISTORS		303	RMA0339	HOLDER	
				304	RME0063	LOCK LEVER SPRING	
Q701	2SB709S	TRANSISTOR		305	RME0087	SPRING	
· ·				306	RMG0158	BELT	
		SWITCHES		307	RML0177	CONVERSION LEVER	-
				308	RML0178-1	LOCK LEVER	
S701	RSM0006-P	SW, REST		309	RMM0059-1	SLIDE PLATE(2)	
\$790	RSH1A005	SW, LOAD CLOSE DETECT		310	RMM0079	SLIDE PLATE(1)	
S791	RSH1A005	SW, LOAD OPEN DETECT		311	XTN26+6G	SCREW	
				312	XYN2+F6FZ	SCREW	
		OSCILLATORS		313	RDB0036	GUIDE HOLDER	-
				314	RHD20010	SCREW	
X701	RSXZ16M9M02T	CRYSTAL		315	RMU0046	GUIDE SHAFT	
				316	RHM245ZA	MAGNET	
		VARIABLE RESISTORS		317	RMA0327-1	DISK CLAMPER	
				318	RMR0334	MAGNET HOLDER	
VR701	EVNDXAA00B14	V.R, BEST EYE ADJ		319	RXQ0123	DISK HOLDER	-
				320	RFKNLPG440-K	DRIVE RACK ASS'Y	
		CONNECTORS		321	RGQ0088-K	DISC TRAY	
				322	RHD20009-1	SCREW	
CN701	RJU035T016-1	SOCKET (16P)		323	XTB3+25GFZ	SCREW	
CN702	RJS1A6723-1Q	SOCKET (23P)		324	XTN26+6G	SCREW	
CP790	RJP6G17ZA	CONNECTOR (6P)		325	XTN3+8JFZ	SCREW	
CS702	RJS1A6723-Q	SOCKET (23P)		326	RAE0111Z	TRAVERSE UNIT ASS'Y	
-				326A	SHGD112	RUBBER(A)	
		CHIP JUMPERS		326B	SHGD113-1	RUBBER(B)	
				326C	RDV0023	BELT	
RJ701-717	ERJ8GEY0R00A	1/10W 0		326D	SNSD38	SCREW	
RJ721-726	ERJ8GEY0R00A	1/10W 0		327	RME0109	SPRING	
				328	RMS0123-1	PIN(A)	
		TEST JUMPERS		329	RMS0350	PIN(B)	
				330	RMR0533-K	TRAVERSE CHASSIS	
TJ701	RRJ8GET001H	TEST JUMPER		331	XTV2+6G	SCREW	
TJ702	RRJ8GET001H	TEST JUMPER					

■ RESISTORS & CAPACITORS

Notes:

- * Capacitance values are in microfarads(μF) unless specified otherwise,P=Pico-farads(pF) F=Farads(F)
- * Resistance 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
				R55	ERDS2TJ561T	560	1/4W	R128	ERDS2TJ562T	5.6K	1/4W
	RESISTORS			R56	ERDS2TJ222T	2.2K	1/4W	R129	ERDS2TJ2R2T	2.2	1/4W
				R57	ERDS2TJ472T	4.7K	1/4W	R130	ERDS2TJ821T	820	1/4W
R1	ERDS2TJ472T	4.7K	1/4W	R58	ERDS2TJ103T	10K	1/4W	R131	ERDS2TJ183T	18K	1/4W
R2	ERDS2TJ122T	1.2K	1/4W	R59,61	ERDS2TJ222T	2.2K	1/4W	R132	ERDS2TJ101T	100	1/4W
R3,4	ERDS2TJ104T	100K	1/4W	R62	ERDS2TJ473T	47K	1/4W	R133	ERDS2TJ562T	5.6K	1/4W
R5	ERDS2TJ470T	47	1/4W	R63	ERDS2TJ102T	1K	1/4W	R135	ERDS2TJ151T	150	1/4W
R7	ERDS2TJ332T	3.3K	1/4W	R65	ERDS2TJ473T	47K	1/4W	R138	ERDS2TJ563T	56K	1/4W
R8	ERDS2TJ104T	100K	1/4W	R66	ERDS2TJ103T	10K	1/4W	R139	ERDS2TJ180T	18	1/4W
R9	ERDS2TJ103T	10K	1/4W	R67	ERDS2TJ102T	1K	1/4W	R141	ERDS1FVJ2R2T	2.2	1/2W
R10	ERDS2TJ683T	68K	1/4W	R68	ERDS2TJ391T	390	1/4W	R151	ERDS2TJ392T	3.9K	1/4W
R11	ERDS2TJ471T	470	1/4W	R69~71	ERDS2TJ103T	10K	1/4W	R152	ERDS2TJ561T	560	1/4W
R12	ERDS2TJ224T	220K	1/4W	R72	ERDS2TJ104T	100K	1/4W	R153	ERDS2TJ472T	4.7K	1/4W
R13	ERDS2TJ471T	470	1/4W	R73	ERDS2TJ103T	10K	1/4W	R201	ERDS2TJ223T	22K	1/4W
R14	ERDS2TJ473T	47K	1/4W	R74~76	ERDS2TJ224T	220K	1/4W	R202	ERDS2TJ680T	68	1/4W
R16	ERDS2TJ101T	100	1/4W	R81	ERDS2TJ102T	1K	1/4W	R203	ERDS2TJ562T	5.6K	1/4W
R17	ERDS2TJ332T	3.3K	1/4W	R82	ERDS2TJ103T	10K	1/4W	R204	ERDS2TJ222T	2.2K	1/4W
R18	ERDS2TJ334T	330K	1/4W	R84	ERDS2TJ104T	100K	1/4W	R205	ERDS2TJ102T	1K	1/4W
R19~21	ERDS2TJ331T	330	1/4W	R85	ERDS2TJ471T	470	1/4W	R206	ERDS2TJ221T	220	1/4W
R22	ERDS2TJ103T	10K	1/4W	R86	ERDS2TJ473T	47K	1/4W	R208	ERDS2TJ682T	6.8K	1/4W
R23	ERDS2TJ151T	150	1/4W	R101	ERDS2TJ223T	22K	1/4W	R210	ERDS2TJ333T	33K	1/4W
R24	ERDS2TJ562T	5.6K	1/4W	R102	ERDS2TJ680T	68	1/4W	R211	ERDS2TJ223T	22K	1/4W
R25	ERDS2TJ332T	3.3K	1/4W	R103	ERDS2TJ562T	5.6K	1/4W	R213	ERDS2TJ683T	68K	1/4W
R26	ERDS2TJ102T	1K	1/4W	R104	ERDS2TJ222T	2.2K	1/4W	R214	ERDS2TJ822T	8.2K	1/4W
R27	ERDS2TJ104T	100K	1/4W	R105	ERDS2TJ102T	1K	1/4W	R215	ERDS2TJ333T	33K	1/4W
R28	ERDS2TJ562T	5.6K	1/4W	R106	ERDS2TJ221T	220	1/4W	R216	ERDS2TJ123T	12K	1/4W
R29	ERDS2TJ681T	680	1/4W	R108	ERDS2TJ682T	6.8K	1/4W	R217	ERDS2TJ123T	12K	1/4W
R30	ERDS2TJ683T	68K	1/4W	R110	ERDS2TJ333T	33K	1/4W	R218	ERDS2TJ183T	18K	1/4W
R31	ERDS2TJ102T	1K	1/4W	R111	ERDS2TJ223T	22K	1/4W	R219	ERDS2TJ101T	100	1/4W
R32	ERDS2TJ682T	6.8K	1/4W	R113	ERDS2TJ683T	68K	1/4W	R220	ERDS2TJ474T	470K	1/4W
R33~35	ERDS2TJ104T	100K	1/4W	R114	ERDS2TJ822T	8.2K	1/4W	R221	ERDS2TJ152T	1.5K	1/4W
R36,37	ERDS2TJ103T	10K	1/4W	R115	ERDS2TJ333T	33K	1/4W	R222	ERDS2TJ681T	680	1/4W
R38	ERDS2TJ103T	10K	1/4W	R116	ERDS2TJ123T	12K	1/4W	R223	ERDS2TJ123T	12K	1/4W
R39~41	ERDS2TJ104T	100K	1/4W	R117	ERDS2TJ123T	12K	1/4W	R224	ERDS2TJ223T	22K	1/4W
R44	ERDS2TJ103T	10K	1/4W	R118	ERDS2TJ183T	18K	1/4W	R225	ERDS2TJ472T	4.7K	1/4W
R45	ERDS2TJ471T	470	1/4W	R119	ERDS2TJ101T	100	1/4W	R226	ERDS2TJ152T	1.5K	1/4W
R47	ERDS2TJ103T	10K	1/4W	R120	ERDS2TJ474T	470K	1/4W	R227	ERDS2TJ223T	22K	1/4W
R48	ERDS2TJ103T	10K	1/4W	R121	ERDS2TJ152T	1.5K	1/4W	R228	ERDS2TJ562T	5.6K	1/4W
R49	ERDS2TJ121T	120	1/4W	R122	ERDS2TJ681T	680	1/4W	R229	ERDS2TJ2R2T	2.2	1/4W
R50	ERDS2TJ122T	1.2K	1/4W	R123	ERDS2TJ123T	12K	1/4W	R230	ERDS2TJ821T	820	1/4W
R51	ERDS2TJ222T	2.2K	1/4W	R124	ERDS2TJ223T	22K	1/4W	R231	ERDS2TJ183T	18K	1/4W
R52	ERDS2TJ471T	470	1/4W	R125	ERDS2TJ472T	4.7K	1/4W	R232	ERDS2TJ101T	100	1/4W
R53	ERDS2TJ224T	220K	1/4W	R126	ERDS2TJ152T	1.5K	1/4W	R233	ERDS2TJ562T	5.6K	1/4W
R54	ERDS2TJ153T	15K	1/4W	R127	ERDS2TJ223T	22K	1/4W	R235	ERDS2TJ151T	150	1/4W

Ref.No.	Part No.	Values &	Remarks .	Ref.No.	Part No.	Values &	Remarks	Ref.No	. Part No.	Values &	Remarks
R238	ERDS2TJ563T	56K	1/4W	R349	ERDS2TJ101T	100	1/4W	R604	ERDS2TJ103T	10K	1/4W
R239	ERDS2TJ180T	18	1/4W	R350	ERDS2TJ105T	1M	1/4W	R605	ERDS2TJ822T	8.2K	1/4W
R241	ERDS1FVJ2R2T	2.2	1/2W	R351	ERDS2TJ223T	22K	1/4W	R607	ERDS2TJ303T	30K	1/4W
R251	ERDS2TJ392T	3.9K	1/4W	R352	ERDS2TJ123T	12K	1/4W	R608	ERDS2TJ303T	30K	1/4W
R252	ERDS2TJ561T	560	1/4W	R353	ERDS2TJ333T	33K	1/4W	R609	ERDS2TJ153T	15K	1/4W
R253	ERDS2TJ472T	4.7K	1/4W	R354	ERDS2TJ472T	4.7K	1/4W	R610	ERDS2TJ102T	1K	1/4W
R301	ERDS2TJ471T	470	1/4W	R355	ERDS2TJ103T	10K	1/4W	R611	ERDS2TJ105T	1M	1/4W
R302	ERDS2TJ472T	4.7K	1/4W	R356	ERDS2TJ683T	68K	1/4W	R801	ERDS2TJ824T	820K	1/4W
R303	ERDS2TJ104T	100K	1/4W	R357	ERDS2TJ333T	33K	1/4W	R802	ERDS2TJ104T	100K	1/4W
R304	ERDS2TJ471T	470	1/4W	R359	ERDS2TJ103T	10K	1/4W	R803	ERDS2TJ471T	470	1/4W
R305	ERDS2TJ473T	47K	1/4W	R361	ERDS2TJ334T	330K	1/4W	R804	ERDS2TJ103T	10K	1/4W
R306	ERDS2TJ222T	2.2K	1/4W	R362	ERDS2TJ182T	1.8K	1/4W	R805	ERDS2TJ104T	100K	1/4W
R307	ERDS2TJ223T	22K	1/4W	R363	ERDS2TJ180T	18	1/4W	R806	ERDS2TJ333T	33K	1/4W
R308	ERDS2TJ102T	1K	1/4W	R364	ERDS2TJ101T	100	1/4W	R807	ERDS2TJ822T	8.2K	1/4W
R309	ERDS2TJ222T	2.2K	1/4W	R365	ERDS2TJ330T	33	1/4W	R808	ERDS2TJ104T	100K	1/4W
R310	ERDS2TJ472T	4.7K	1/4W	R366	ERDS2TJ104T	100K	1/4W	R809	ERDS2TJ153T	15K	1/4W
R311	ERD2FCVJ4R7T	4.7	1/4W	R367	ERDS2TJ104T	100K	1/4W	R810	ERDS2TJ153T	15K	1/4W
R312	ERDS2TJ103T	10K	1/4W	R369	ERDS2TJ472T	4.7K	1/4W	R811	ERDS2TJ153T	15K	1/4W
R313	ERDS2TJ472T	4.7K	1/4W	R370	ERDS2TJ103T	10K	1/4W	R812	ERDS2TJ222T	2.2K	1/4W
R314	ERDS2TJ472T	4.7K	1/4W	R371	ERDS2TJ103T	10K	1/4W	R813	ERDS2TJ222T	2.2K	1/4W
R315	ERDS2TJ101T	100	1/4W	R373	ERDS2TJ100T	10	1/4W	R814	ERDS2TJ222T	2.2K	1/4W
R316	ERDS2TJ103T	10K	1/4W	R374	ERDS2TJ560T	56	1/4W	R815	ERDS2TJ472T	4.7K	1/4W
R318	ERDS2TJ222T	2.2K	1/4W	R375	ERDS2TJ563T	56K	1/4W	R816	ERDS2TJ103T	10K	1/4W
R319	ERDS2TJ221T	220	1/4W	R377	ERDS2TJ104T	100K	1/4W	R817	ERDS2TJ103T	10K	1/4W
R320	ERDS2TJ331T	330	1/4W	R381	ERDS2TJ153T	15K	1/4W	R818	ERDS2TJ103T	10K	1/4W
R321	ERDS2TJ473T	47K	1/4W	R383	ERDS2TJ470T	47	1/4W	R819	ERDS2TJ103T	10K	1/4W
R322	ERDS2TJ101T	100	1/4W	R401	ERDS2TJ153T	15K	1/4W	R820	ERDS2TJ103T	10K	1/4W
R323	ERDS2TJ1R5T	1.5	1/4W	R402	ERDS2TJ822T	8.2K	1/4W	R821	ERDS2TJ106T	10M	1/4W
R324	ERDS2TJ472T	4.7K	1/4W	R403	ERDS2TJ562T	5.6K	1/4W	R822	ERDS2TJ334T	330K	1/4W
R325	ERDS2TJ152T	1.5K	1/4W	R404	ERDS2TJ392T	3.9K	1/4W	R823	ERDS2TJ104T	100K	1/4W
R326	ERG1SJ100E	10	1W	R405	ERDS2TJ272T	2.7K	1/4W	R824	ERDS2TJ103T	10K	1/4W
R327	ERDS2TJ101T	100	1/4W	R406	ERDS2TJ222T	2.2K	1/4W	R825	ERDS2TJ104T	100K	1/4W
R328	ERDS2TJ2R2T	2.2	1/4W	R407	ERDS2TJ152T	1.5K	1/4W	R826	ERDS2TJ105T	1M	1/4W
R330	ERDS2TJ222T	2.2K	1/4W	R411	ERDS2TJ272T	2.7K	1/4W	R827	ERDS2TJ681T	680	1/4W
R331	ERDS2TJ472T	4.7K	1/4W	R412	ERDS2TJ222T	2.2K	1/4W	R828	ERDS2TJ103T	10 K	1/4W
R332	ERDS2TJ333T	33K	1/4W	R413	ERDS2TJ152T	1.5K	1/4W	R829	ERDS2TJ103T	10K	1/4W
R334	ERDS2TJ122T	1.2K	1/4W	R419	ERDS2TJ331T	330	1/4W	R830	ERDS2TJ153T	15K	1/4W
R335	ERDS2TJ223T	22K	1/4W	R421	ERDS2TJ152T	1.5K	1/4W	R831	ERDS2TJ683T	68K	1/4W
R336	ERDS2TJ102T	1K	1/4W	R422	ERDS2TJ222T	2.2K	1/4W	R832	ERDS2TJ103T	10K	1/4W
R337	ERDS2TJ223T	22K	1/4W	R423	ERDS2TJ272T	2.7K	1/4W	R833	ERDS2TJ473T	47K	1/4W
R338	ERDS2TJ332T	3.3K	1/4W	R424	ERDS2TJ392T	3.9K	1/4W	R834	ERDS2TJ154T	150K	1/4W
R340	ERDS2TJ472T	4.7K	1/4W	R425	ERDS2TJ562T	5.6K	1/4W	R835	ERDS2TJ104T	100K	1/4W
R341	ERDS2TJ472T	4.7K	1/4W	R426	ERDS2TJ822T	8.2K	1/4W	R836	ERDS2TJ104T	100K	1/4W
R342	ERDS2TJ472T	4.7K	1/4W	R427	ERDS2TJ153T	15K	1/4W	R837	ERDS2TJ104T	100K	1/4W
R343	ERDS2TJ472T	4.7K	1/4W	R427	ERDS2TJ333T	33K	1/4W	R838	ERDS2TJ333T	33K	1/4W
R345	ERDS2TJ102T	1K	1/4W	R450	ERDS2TJ221T	220	1/4W	R839	ERDS2TJ561T	560	1/4W
R346	ERDS2TJ102T ERDS2TJ104T	100K	1/4W	R602	ERDS2TJ22TT	10K	1/4W	R840	ERDS2TJ301T	390	1/4W
R347	ERDS2TJ334T	330K	1/4W	R603	ERDS2TJ472T	4.7K	1/4W	R841	ERDS2TJ470T	47	1/4W

Ref.No.	Part No.	Values &	Remarks	Ref.No.	Part No.	Values &	Remarks	Ref.No.	Part No.	Values &	Remarks
R842	ERDS2TJ102T	1K	1/4W	C35	ECBT1C103MS5	0.01	16V	C93	ECEA1CU330B	33	16V
R843	ERDS2TJ563T	56K	1/4W	C36	ECEA1HU2R2B	2.2	50V	C94	ECBT1H102KB5	1000P	50V
R844	ERDS2TJ103T	10K	1/4W	C37	ECBT1C103MS5	0.01	16V	C95	ECBT1C103MS5	0.01	16V
R845	ERDS2TJ103T	10K	1/4W	C38	ECFR1C153MR	0.015	16V	C96	ECEA1CU330B	33	16V
R846	ERDS2TJ102T	1K	1/4W	C39	ECEA1HU010B	1	50V	C97	ECBT1H102KB5	1000P	50V
R847	ERDS2TJ102T	1 K	1/4W	C40,41	ECEA1HUR47B	0.47	50V	C98	ECBT1H101KB5	100P	50V
R848	ERDS2TJ682T	6.8K	1/4W	C42	ECQP1102JZT	1000P	100V	C99	ECBT1H331KB5	330P	50V
R849	ERDS2TJ682T	6.8K	1/4W	C43	ECBT1H8R2KC5	8.2P	50V	C101	ECBT1H471KB5	470P	50V
R850	ERDS2TJ102T	1K	1/4W	C44	ECBT1C103MS5	0.01	16V	C102	ECBT1H102KB5	1000P	50V
R851	ERDS2TJ102T	1K	1/4W	C45	ECBT1H330J5	33P	50V	C103	ECBT1H471KB5	470P	50V
R852	ERDS2TJ102T	1K	1/4W	C46	ECBT1H4R7KC5	4.7P	50V	C104	ECEA1HU010B	1	50V
R853	ERDS2TJ821T	820	1/4W	C47	ECBT1C103MS5	0.01	16V	C105	ECEA1AU101B	100	10V
R854	ERDS2TJ103T	10K	1/4W	C49	ECBT1H330J5	33P	50V	C106	ECFR1C273KR	0.027	16V
R855	ERDS2TJ104T	100K	1/4W	C50	ECBT1C103MS5	0.01	16V	C107	ECEA1HU010B	1	50V
R861	ERDS2TJ393T	39K	1/4W	C51	ECBT1H102KB5	1000P	50V	C108	ECFR1C333MR	0.033	16V
R862	ERDS2TJ222T	2.2K	1/4W	C52	ECFR1C223MR	0.022	16V	C109	ECEA1AU101B	100	10V
R863	ERDS2TJ222T	2.2K	1/4W	C53	ECBT1H470J5	47P	50V	C112	ECBT1H102KB5	1000P	50V
R864	ERDS2TJ222T	2.2K	1/4W	C54	ECBT1H6R8KC5	6.8P	50V	C113	ECBT1H102KB5	1000P	50V
R901	ERDS2TJ471T	470	1/4W	C55	ECCR1H080CC5	8P	50V	C114	ECEA1HU010B	1	50V
				C56	ECQP1391JZT	390P	100V[M]	C115	ECBT1H561KB5	560P	50V
	CAPACITORS			C57	ECBT1H102KB5	1000P	50V	C116	ECFR1C473MR	0.047	16V
				C58	ECBT1H220JC5	22P	50V	C117	ECEA1HUR33B	0.33	50V
C1	ECBT1H102KB5	1000P	50V	C59	ECBT1H102KB5	1000P	50V	C118	ECBT1H102KB5	1000P	50V
C3	ECCR1H120KC5	12P	50V	C60	ECQP1222JZ	2200P	100V	C119	ECEA1CU100B	10	16V
C4	ECBT1H101KB5	100P	50V	C61	ECBT1H220JC5	22P	50V	C120	ECBT1C332MR5	3300P	16V
C5,6	ECBT1H102KB5	1000P	50V	C62	ECBT1H101KB5	100P	50V	C121	ECBT1C332MR5	3300P	16V
C7	ECBT1H100JC5	10P	50V	C63	ECQP1682JZ	6800P	100V	C122	ECBT1H220JC5	22P	50V
C8	ECBT1H3R9KC5	3.9P	50V	C64	ECFR1C223MR	0.022	16V	C123	ECBT1H101KB5	100P	50V
C9	ECBT1H150JC5	15P	50V	C65	ECBT1H100JC5	10P	50V	C124	ECFR1C473MR	0.047	16V
C10	ECBT1H102KB5	1000P	50V	C66,67	ECBT1C103MS5	0.01	16V	C125	ECEA1HU010B	1	50V
C11	ECBT1H3R3KC5	3.3P	50V	C68	ECEA1HU010B	1	50V	C126	ECBT1H471KB5	470P	50V
C12	ECBT1H2R2KC5	2.2P	50V	C69	ECEA1HUR47B	0.47	50V	C127	ECEA0JU101B	100	6.3V
C13	ECBT1H181KB5	180P	50V	C70	ECEA0JU101B	100	6.3V	C128	ECEA1AU470B	47	10 V
C14	ECBT1H100JC5	10P	50V	C71	ECKR1H103MD5	0.01	50V	C129	ECFR1C473MR	0.047	16V
C15,16	ECBT1H102KB5	1000P	50V	C72	ECBT1H101KB5	100P	50V	C130	ECEA1AU470B	47	10V
C17,18	ECBT1C103MS5	0.01	16V	C73	ECKR1H103MD5	0.01	50V	C131	ECQV1H224JZ3	0.22	50V
C19,20	ECBT1H102KB5	1000P	50V	C74	ECBT0J153MS5	0.015	6.3V	C132	ECEA1HU4R7B	4.7	50V
C21	ECBT1H821KB5	820P	50V	C75	ECEA1HU2R2B	2.2	50V	C133	ECBT1C332MR5	3300P	16V
C22	ECBT1H181KB5	180P	50V	C76,77	ECBT1H102KB5	1000P	50V	C134	ECEA0JU101B	100	6.3V
C23	ECBT1C103MS5	0.01	16V	C78	ECEA1HNR47SB	0.47	50V	C135	ECEA1CU101B	100	16V
C24	ECBT1H102KB5	1000P	50V	C79	ECBT1C103MS5	0.01	16V	C136	ECEA1AU222B	2200	10V
C25	ECEA1CU100B	10	16V	C80,81	ECBT1H102KB5	1000P	50V	C137	ECQV1H224JZ3	0.22	50V
C26	ECBT1H102KB5	1000P	50V	C82	ECQV1H474JZW	0.47	50V	C139	ECBT1C103MS5	0.01	16V
C29	ECEA0JU101B	100	6.3V	C83	ECEA1CU330B	33	16V	C140	ECBT1H331KB5	330P	50V
C30	ECEA1EU4R7B	4.7	25V	C84	ECBT1C103MS5	0.01	16V	C151	ECEA1HU010B	1	50V
C31,32	ECFR1C223MR	0.022	16V	C86,87	ECBT1H150JC5	15P	50V	C152	ECEA1HU010B	1	50V
C33	ECEA1AU101B	100	10V	C88~90	ECBT1H331KB5	330P	50V	C153	ECBT1H471KB5	470P	50V
C34	ECFR1C153MR	0.015	16V	C92	ECBT1H102KB5	1000P	50V	C154	ECBT1C103MS5	0.01	16V

Ref.No.	Part No.	Values &	Remarks	Ref.No.	Part No.	Values &	Remarks	Ref.No.	Part No.	Values &	Remarks
C155	ECBT1C332MR5	3300P	16V	C253	ECBT1H471KB5	470P	50V	C347	ECEA1AU221B	220	10V
C156	ECBT1H102KB5	1000P	50V	C254	ECBT1C103MS5	0.01	16V	C348	ECEA1AU101B	100	10V
C157	ECFR1C823MR	0.082	16V	C255	ECBT1C332MR5	3300P	16V	C349	ECEA0JU221B	220	6.3V
C158	ECEA1CU100B	10	16V	C256	ECBT1H102KB5	1000P	50V	C350	ECBT1C103MS5	0.01	16V
C159	ECEA1HU2R2B	2.2	50V	C257	ECFR1C823MR	0.082	16V	C351	ECEA1EU221B	220	25V
C160	ECFR1C333MR	0.033	16V	C258	ECEA1CU100B	10	16V	C352	ECFR1C393KR	0.039	16V
C161	ECEA1HU0R1B	0.1	50V	C259	ECEA1HU2R2B	2.2	50V	C353	ECEA1CU100B	10	16V
C162	ECEA1HUR33B	0.33	50V	C260	ECFR1C333MR	0.033	16V	C354	ECEA1HU010B	1	50V
C163	ECFR1C273KR	0.027	16V	C261	ECEA1HU0R1B	0.1	50V	C356	ECEA1AU221B	220	10V
C201	ECBT1H471KB5	470P	50V	C262	ECEA1HUR33B	0.33	50V	C357	ECEA1AU330B	33	10V
C202	ECBT1H102KB5	1000P	50V	C263	ECFR1C273KR	0.027	16V	C358	ECEA1HU4R7B	4.7	50V
C203	ECBT1H471KB5	470P	50V	C301	ECEA1CU470B	47	16V	C360	ECEA1AU470B	47	10V
C204	ECEA1HU010B	1	50V	C302	ECEA1HU010B	1	50V	C361	ECEA1AU471B	470	10V
C205	ECEA1AU101B	100	10V	C303	ECEA1HU010B	1	50V	C362	ECEA1HU010B	1	50V
C206	ECFR1C273KR	0.027	16V	C304	ECBT1C103MS5	0.01	16V	C363	ECBT1H102KB5	1000P	50V
C207	ECEA1HU010B	1	50V	C305	ECBT1H220JC5	22P	50V	C364	ECEA1HU010B	1	50V
C208	ECFR1C333MR	0.033	16V	C307	ECEA1CU470B	47	16V	C365	ECEA1AU101B	100	10V
C209	ECEA1AU101B	100	10V	C308	ECBT1C103MS5	0.01	16V	C366	ECEA1AU470B	47	10V
C212	ECBT1H102KB5	1000P	50V	C309	ECBT1C103MS5	0.01	16V	C368	ECEA1AU101B	100	10V
	ECBT1H102KB5	1000P	50V	C310	ECBT1H102KB5	1000P	50V	C369	ECBT1H102KB5	1000P	50V
	ECEA1HU010B	1	50V	C311	ECEA1AU470B	47	10V	C370	ECBT1H102KB5	1000P	50V
C215	ECBT1H561KB5	560P	50V	C312	ECFR1C473MR	0.047	16V	C371	ECEA1CU100B	10	16V
C216	ECFR1C473MR	0.047	16V	C313	ECBT1C332MR5	3300P	16V	C372	ECEA1AU330B	33	10V
C217	ECEA1HUR33B	0.33	50V	C314	ECEA1AU221B	220	10V	C373	ECBT1C103MS5	0.01	16V
C218	ECBT1H102KB5	1000P	50V	C315	ECEA1HU010B	1	50V	C375	ECBT1H102KB5	1000P	50V
C219	ECEA1CU100B	10	16V	C316	ECQP1103JZ	0.01	100V	C376	ECBT1C103MS5	0.01	16V
C220	ECBT1C332MR5	3300P	16V	C319	ECQP1102JZT	1000P	100V	C401	ECBT1H102KB5	1000P	50V
C221	ECBT1C332MR5	3300P	16V	C320	ECBT1C103MS5	0.01	16V	C402	ECBT1H102KB5	1000P	50V
C222	ECBT1H220JC5	22P	50V	C321	ECQV1H474JZ3	0.47	50V	C403	ECBT1H102KB5	1000P	50V
C223	ECBT1H101KB5	100P	50V	C322	ECEA1CU100B	10	16V	C404	ECBT0J223NS5	0.022	6.3V
	ECFR1C473MR	0.047	16V	C329	ECEA1CU221B	220	16V	C450	ECEA1CU471B	470	16V
	ECEA1HU010B	1	50V	C330	ECEA1CU100B	10	16V	C601	ECEA1CU330B	33	16V
	ECBT1H471KB5	470P	50V	C331	ECEA1EU472	4700P	25V	C602	ECEA1CU101B	100	16V
C227	ECEA0JU101B	100	6.3V	C332	ECEA1CU100B	10	16V	C603	ECEA1CU100B	10	16V
C228	ECEA1AU470B	47	10V	C333	ECBT1H471KB5	470P	50V	C806	ECBT1H102KB5	1000P	50V
-	ECFR1C473MR	0.047	16V	C334	ECBT1H471KB5	470P	50V	C808	ECBT1H331KB5	330P	50V
	ECEA1AU470B	47	10V	C335	ECEA1CU100B	10	16V	C810	ECBT1H331KB5	330P	50V
	ECQV1H224JZ3	0.22	50V	C336	ECEA1CU100B	10	16V	C811	ECEA0JK221B	220	6.3V
	ECEA1HU4R7B	4.7	50V	C337	ECEA1CU100B	10	16V	C812	ECEA0JK221B	220	6.3V
	ECBT1C332MR5	3300P	16V	C338	ECEA1CU100B	10	16V	C814	ECEA0JK101B	100	6.3V
	ECEA0JU101B	100	6.3V	C339	ECEA1CU100B	10	16V	C816	ECBT1H102KB5	1000P	50V
	ECEA1CU101B	100	16V	C340	ECEA1AU221B	220	10V	C817	ECBT1H102KB5	1000P	50V
	ECEA1AU222B	2200	10V	C341	ECEA1AU101B	100	10V		ECBT1H102KB5	1000P	50V
	ECQV1H224JZ3	0.22	50V	C342	ECEA1CU101B	100	16V		ECBT1H220JC5	22P	50V
	ECBT1C103MS5	0.01	16V	C343	ECKR1H103ZF5	0.01	50V	C821	ECBT1H220JC5	22P	50V
	ECBT1H331KB5	330P	50V		ECEA1CU100B	10	16V	C822	ECBT1H820KB5	82P	50V
	ECEA1HU010B	1_	50V		ECEA1AU220B	22	10V		ECBT1H820KB5	82P	50V
	ECEA1HU010B	1	50V		ECEA1EU221B	220	25V		ECBT1H560J5	56P	50V

Ref.No.	. Part No.	Values &	Remarks	Ref.No.	Part No.	Values &	Remarks	Ref.No.	Part No.	Values &	Remarks
C825	ECBT1H560J5	56P	50V	R705	ERJ6GEYJ103V	1/10W	10K	C705	ECEA1HKA010I	50V	1
C826	ECEA1HKA010B	1	50V	R706	ERJ6GEYJ102A	1/10W	1K	C706	ECUE1H101JCN	50V	100P
C826	ECEA1HK010B	1	50V	R707	ERJ6GEYJ473V	1/10W	47K	C708	ECUE1H472KBN	50V	4700P
C828	ECBT1H102KB5	1000P	50V	R708	ERJ6GEYJ224V	1/10W	220K	C709	ECUE1C473KBN	16V	0.047
C829	ECBT1H102KB5	1000P	50V	R709	ERJ6GEYJ683V	1/10W	68K	C710	ECUE1H152KBN	50V	1500P
C830	ECBT1H331KB5	330P	50V	R711	ERJ6GEYJ154V	1/10W	150K	C711	ECUZ1E104MBN	25V	0.1
C831	ECBT1H331KB5	330P	50V	R712	ERJ6GEYJ471V	1/10W	470	C712	ECUZ1E104MBN	25V	0.1
C832	ECBT1H102KB5	1000P	50V	R714	ERJ6GEY0R00A	1/10W	0.00	C713	ECUV1C104MBM	. 16V	0.1
C833	ECBT1H102KB5	1000P	50V	R717	ERJ6GEYJ102A	1/10W	1K	C714	ECEA0JKA101I	6.3V	100
C834	ECBT1H330J5	33P	50V	R718	ERJ6GEYJ102A	1/10W	1K	C715	ECEA0JKA470I	6.3V	47
C835	ECEA1HKR22B	0.22	50V	R719	ERJ6GEYJ102A	1/10W	1K	C716	ECUE1H561KBN	50V	560P
C837	ECBT1C103MS5	0.01	16V	R720	ERJ6GEYJ102A	1/10W	1K	C717	ECUZ1E104MBN	25V	0.1
C838	ECBT1C103MS5	0.01	16V	R721	ERJ8GEYJ101V	1/10W	100	C718	ECUV1C224KBM	16V	0.22
C840	ECEA1HKR22B	0.22	50V	R722	ERJ6GEYJ473V	1/10W	47K	C719	ECUV1C224KBM	16V	0.22
C842	ECBT1H331KB5	330P	50V	R723	ERJ6GEYJ182V	1/10W	1.8K	C721	ECUE1H100DCN	50V	10P
C843	ECBT1C103MS5	0.01	16V	R724	ERJ6GEYJ333V	1/10W	33K	C722	ECUE1H100DCN	50V	10P
C844	ECBT1H102KB5	1000P	50V	R725	ERJ6GEYJ472V	1/10W	4.7K	C723	ECEA1AKA221I	10V	220
C846	ECBT1H102KB5	1000P	50V	R726	ERJ6GEYJ473V	1/10W	47K	C724	ECUV1C104MBM	16V	0.1
C847	ECBT1H102KB5	1000P	50V	R727	ERJ6GEYJ103V	1/10W	10K	C725	ECUE1H102KBN	50V	1000P
C848	ECBT1H102KB5	1000P	50V	R728	ERJ6GEYJ392V	1/10W	3.9K	C726	ECUE1H102KBN	50V	1000P
C849	ECBT1H102KB5	1000P	50V	R730	ERJ6GEYJ331V	1/10W	330K	C727	ECEA1HKA010I	50V	1
C853	ECBT1H102KB5	1000P	50V	R731	ERJ6GEYJ392V	1/10W	3.9K	C728	ECEA1HKA010I	'50V	1
C854	ECBT1H102KB5	1000P	50V	R734	ERJ6GEYJ101V	1/10W	100	C730	ECUZ1E104MBN	25V	0.1
C855	ECBT1H102KB5	1000P	50V	R735	ERJ6GEYJ101V	1/10W	100	C731	ECA05SD151I	6.3V	150
C860	ECBT1H331KB5	330P	50V	R736	ERJ6GEYJ101V	1/10W	100	C732	ECA05SD151I	6.3V	150
C861	ECBT1H331KB5	330P	50V	R738	ERJ6GEYJ223V	1/10W	22K	C733	ECUZ1E104MBN	25V	0.1
C862	ECBT1C222KR5	2200P	-16V	R739	ERJ6GEYJ681V	1/10W	680	C734	ECEA1AKA221I	10V	220
C863	ECBT0J223NS5	0.022	6.3V	R741	ERJ6GEYJ562V	1/10W	5.6K	C735	ECUZNE104MBN	25V	0.1
C864	ECBT1H331KB5	330P	50V	R742	ERJ6GEYJ562V	1/10W	5.6K	C736	ECUZNE104MBN	25V	0.1
C901	ECQV1H473JZ3	0.047	50V	R743	ERJ6GEYJ562V	1/10W	5.6K	C737	ECUZNE104MBN	25V	0.1
C902	ECQV1H473JZ3	0.047	50V	R744	ERJ6GEYJ103V	1/10W	10K	C738	ECUV1C154KBN	16V	0.15
C903	ECQV1H473JZ3	0.047	50V	R745	ERJ6GEYJ155V	1/10W	1.5M	C742	ECUV1E273KBN	25V	0.027
C904	ECQV1H473JZ3	0.047	50V	R746	ERJ8GEYJ103V	1/8W	10K	C743	ECUZNE104MBN	25V	0.1
				R747	ERJ6GEYJ473V	1/10W	47K	C744	ECUE1E822KBN	25V	8200P
	SERVO P.C.B.							C745	ECUE1C473MBN	16V	0.047
	RESISTORS				CAPACITORS			C746	ECUE1H050DCN	50V	5P
								C747	ECUE1H222KBN	50V	2200P
R701	ERJ6GEYJ100	1/10W	10	C701	ECEA0JKA220	6.3V	22	C748	ECUV1H271KBM	50V	270P
R702	ERJ6GEYJ471V	1/10W	470	C702	ECEA1HKA010I	50V	1	C790	ECA1AKF820E	10V	82
R703	ERJ6GEYJ823	1/10W	82K	C703	ECEA0JKA101I	6.3V	100				
R704	ERJ6GEYJ102A	1/10W	1K	C704	ECUZ1E104MBN	25V	0.1				

