

Service Manual

Stereo Radio Cassette Recorder

Radio Cassette

RX-ED707



MASH*
multi-stage noise shaping

Colour

(S) Silver Type



Area

Suffix for Model No.	Area	Colour
(GC)	Middle Near East	(S)
(GT)	Taiwan	

* MASH is a trademark of NTT.

TAPE DECK : AR2 MECHANISM SERIES
TRAVERSE DECK : RAE0152Z MECHANISM SERIES



Panasonic/Technics

■ Specifications

■ RADIO

Frequency Range

AM

522-1629 kHz (9kHz steps)

520-1630 kHz (10kHz steps)

FM

87.5 -108 MHz (50kHz steps)

Intermediate Frequency

AM

450 kHz

FM

10.7 MHz

Sensitivity

AM

42 dB/m/50 mW

FM

18 dB/50 mW

(-3 dB limit sens.)

■ TAPE RECORDER

Track system

4 track, 2 channel, stereo

Recording system

AC bias

Erasing system

AC erase

Monitor system

Variable sound monitor

Frequency range

Normal position

30 - 16000 Hz

High position

30 - 17000 Hz

■ CD PLAYER

Sampling frequency

44.1 kHz

Decoding

16 bit linear

Beam source

Semiconductor laser (wavelength 780 nm)

No. of channels

2 channel, stereo

Wow and flutter

Below measurable limit

D/A converter

MASH (1 bit DAC)

■ General

Power requirement

AC

110-127 V/220-240 V, 50/60 Hz

Power consumption: 33 W

Battery

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

Memory back-up for

computer/clock

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

Speakers

Super woofer

8 cm 6.0 Ω x 1

Full Range

8 cm 6.0 Ω x 2

Jacks

Output

PHONES: 3.5 mm stereo (16-64 Ω)

Input

AUX IN: 3.5 mm stereo

Dimensions (W x H x D)

630 x 177 x 326 mm

(Top panel closed)

Weight

About 6.3 kg without batteries

Notes :

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

⚠ WARNING

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

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BEFORE USE

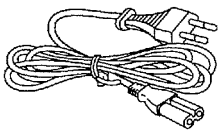
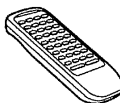
[FOR (GC) area]

Be sure to disconnect the mains cord before adjusting the voltage selector.

Use a minus(−) screwdriver to set the voltage selector (on the rear panel) to the voltage setting for the area in which the unit will be used. (If the power supply in your area is 117V or 120V, set to the "127V" position.)

Note that this unit will be seriously damaged if this setting is not made correctly. (There is no voltage selector for some countries; the correct voltage is already set.)

Accessories

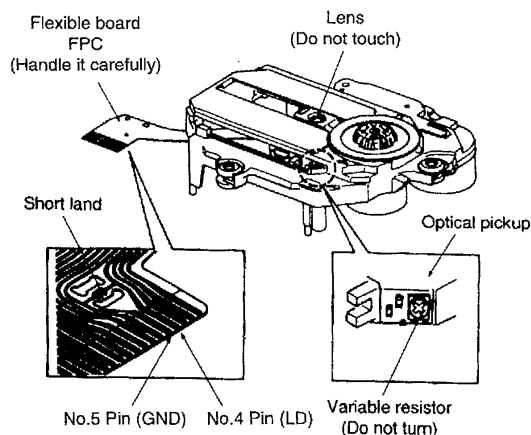
		
AC power supply cord1 pc.	AC power plug adaptor1 pc.	Remote control transmitter ..1 pc. (EUR644861)

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 (FFC 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 (FFC board).
4. Do not turn the variable resistor (laser power adjustment). It has already been adjusted.



• Grounding for electrostatic breakdown prevention

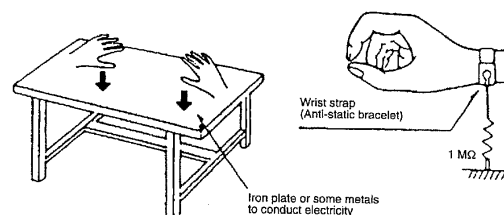
1. Human body grounding
Use the anti-static wrist strap to discharge the static electricity from your body.
2. Work table grounding
Put a conductive material (sheet) or steel sheet on the area where the traverse deck (optical pickup) is placed, and ground the sheet.

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).

Caution when Replacing the Traverse Deck:

The traverse deck has a short point shorted with solder to protect the laser diode against electrostatic breakdown. Be sure to remove the solder from the short point before making connections.



■ 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

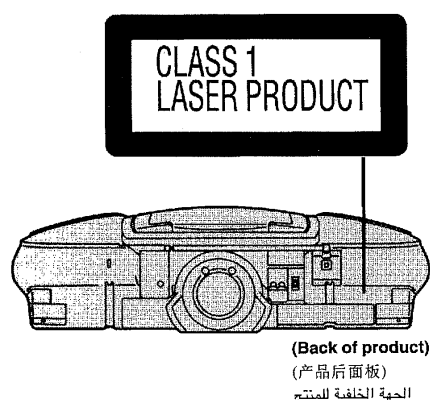
Die strahlung an der lasereinheit ist ungefährlich, wenn folgende punkte beachtet werden:

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.

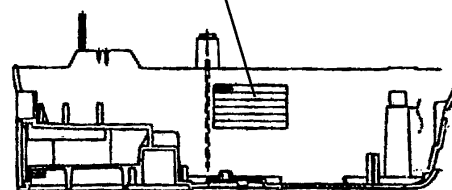
ADVARSEL: I dette a apparat anvendes laser.

CAUTION !

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

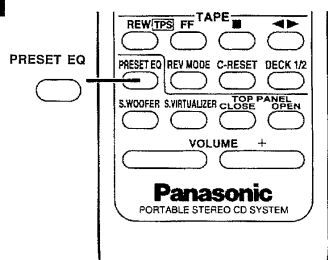


DANGER	INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.	(Inside of product)
ADVARSEL	USYNLIG LASERSTRÅLING VED ÅBNING. VÆR SIKKERHEDSBEVIDERE ER UDSE AF FUNKTION. UNDGÅ UDSETTELSE FOR STRÅLING.	(Indersiden af apparatet)
VARO!	AVATTAESSA JA SUJUALUKUTUS OHTETTÄESSA OLET ALTIINA NÄKYMÄTÖN LASESSÄ ELÄLYLLE. ÄLÄ KÄÄ SO SATEESSEN.	(Tuotteen sisällä)
VARNING	ÖSYNLIG LASERSTRÅLING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR UPPKOPPLAD. BETRÄKTA SÖ STRÅLEN.	(Apparatens insida)
ADVARSEL	ÖSYNLIG LASERSTRÅLING NÄR DEKSEL ÅPES OG SIKKERHEDSLÅS BRYTTES. UNNGÅ EKSPONERING FOR STRÅLEN.	(Produktets innside)
VORSICHT	UNSICHTBARE LASERSTRÄHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.	(Im Inneren des Gerätes)

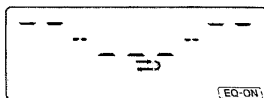


■ Changing of Sound Quality

A

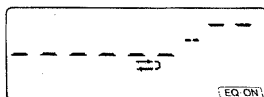


①



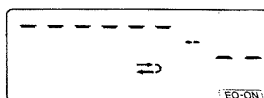
XBS

②



CLEAR

③



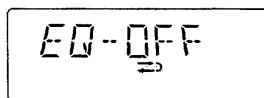
SOFT

④



VOCAL

⑤



Selecting equalizer effects

A

(Only from the remote control)

Four types of sound quality can be selected.

Press [PRESET EQ] to select desired sound quality.

The displayed image of a sound quality effect changes each time the button is pressed.

- ① Gives added punch to rock and other music (XBS)
- ② Lightens pop and other music (CLEAR)
- ③ Softens music (SOFT)
- ④ Enhances vocals (VOCAL)
- ⑤ No sound quality effects used.

Note

- Recordings are not affected by changes in sound quality.
- The effect when listening through headphones is different to that heard from the speakers.
- Select a different sound quality if treble sounds are too strong.

Using the "live" effect (Sound Virtualizer)

B

The "live" effect allows enjoyment of the 3-D feeling listening to live music. Compared with earlier surround systems, the sound virtualizer leaves middle-range sounds such as vocals clear and gives natural width and depth to music.

Sound virtualizer is effective with stereo sound.

Press [S. Virtualizer] to display " ■■■■ ■■■■ ".

To cancel :

Press [S. Virtualizer] to clear the " ■■■■ ■■■■ " indicator.

Note

- The effect is not as apparent when listening through headphones.
- Cancel this effect if noise increases when listening to FM radio.
- Recordings are not affected by changes in sound quality.

Increasing the bass (Super Woofer)

B

Press [SUPER WOOFER].

" S.WOOFER " lights.

The super woofer on the back of the unit starts working and heavy bass sounds from the front ports are emphasized.

- ① Super woofer
- ② Port

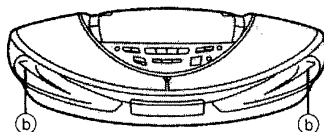
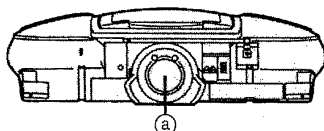
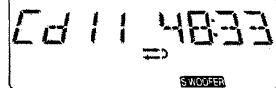
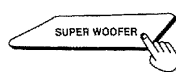
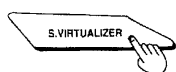
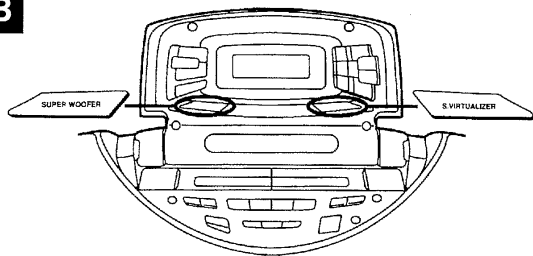
To cancel :

Press [SUPER WOOFER]. " S.WOOFER " goes out.

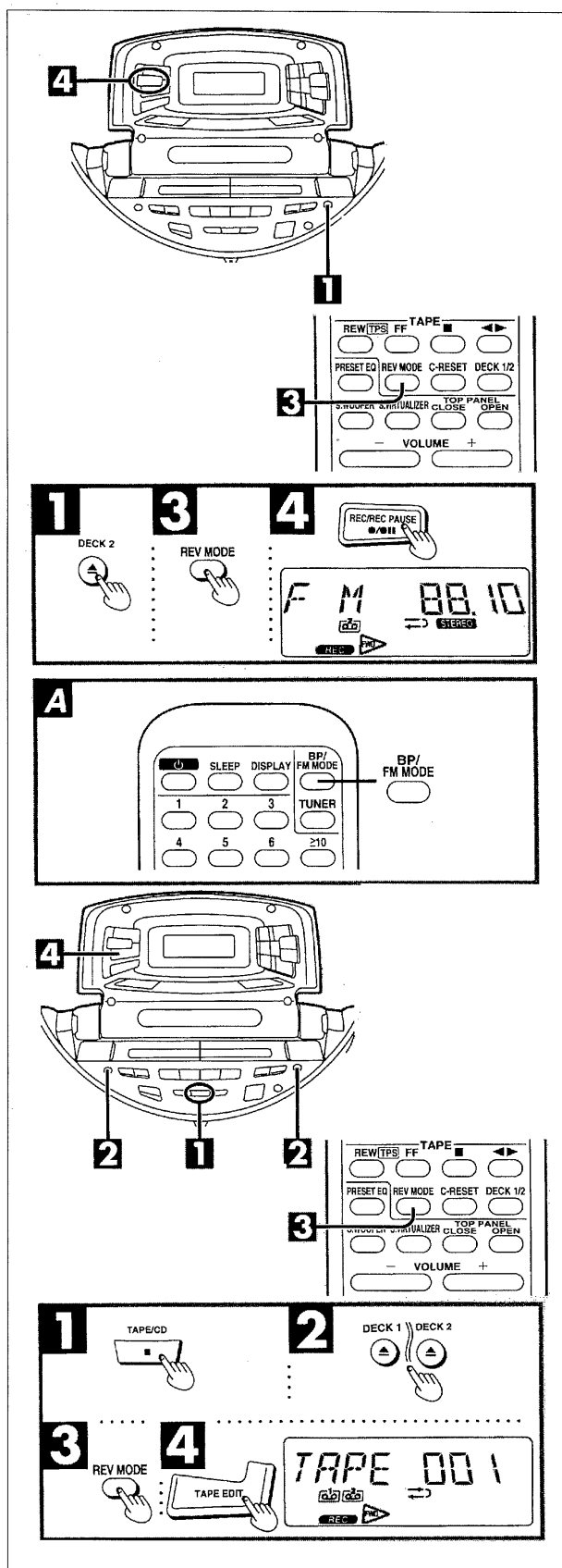
Note

- The effect when listening through headphones is different to that heard from the speakers.
- Recordings are not affected by changes in sound quality.

B



■ Recording Radio Programs and Tape to Tape



Recording Radio Programs

- 1 Press [**▲ DECK 2**] and load the cassette with the side to be recorded facing up.
- 2 Select desired radio station.
- 3 Press [**REV MODE**] on the remote control to select the mode.
 ⇐ ⇐ ⇐ : Records onto both sides, starting with the side facing up.
 ⇐ : Records one side only.
- 4 Press [**●● II REC / REC PAUSE**].
 "FWD REC" is displayed and recording begins. "REV REC" is displayed when recording begins while "◀" is displayed.

To stop recording :

Press [**■ TAPE / CD**].

To stop recording temporarily :

Press [**●● II REC / REC PAUSE**].

To resume recording, press [**●● II REC / REC PAUSE**].

When there is too much interference during AM recording **A**

(Available only from the remote control)

Press [**BP / FM MODE**].

Select "bP1" or "bP2" whichever yields less noise.

Recording Tape to Tape

- 1 Press [**■ TAPE / CD**] to select the cassette mode.
 TAPE <—> CD
 (The display changes each time the button is pressed.)
- 2 Insert the playback cassette into deck 1 and the recording cassette into deck 2.
- 3 Press [**REV MODE**] on the remote control to select the mode.
 ⇐ ⇐ ⇐ : Records from the side facing up to the opposite side and automatically stops.
 ⇐ : Records only one side of the cassette and automatically stops.
- 4 Press [**TAPE EDIT**].
 Play on deck 1 and recording on deck 2 begin simultaneously.

To stop recording :

Press [**■ TAPE / CD**].

To temporarily stop recording :

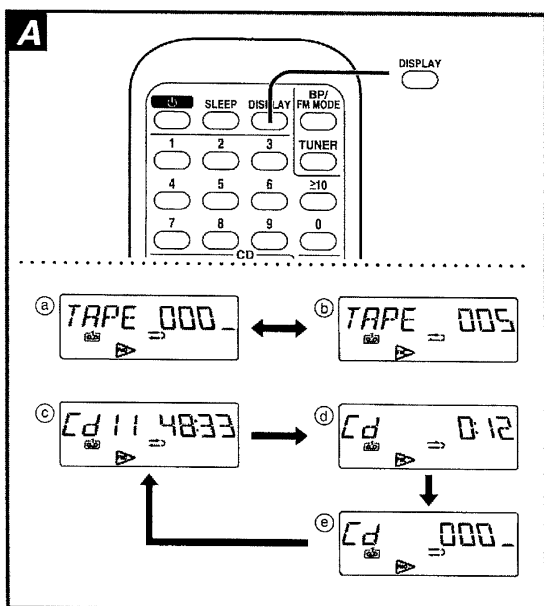
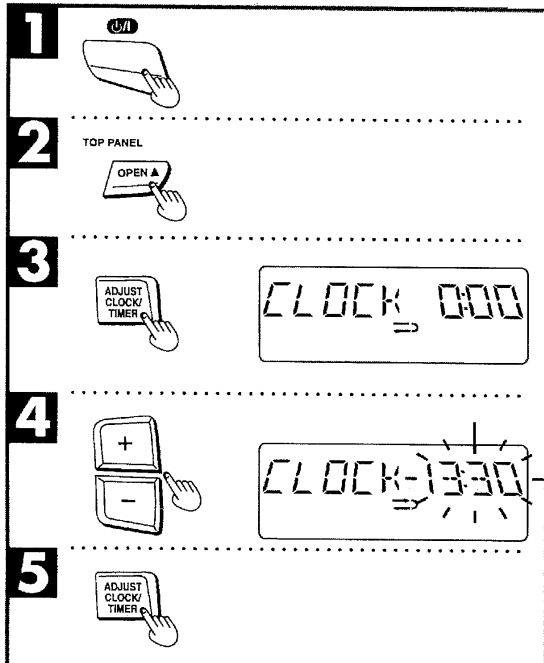
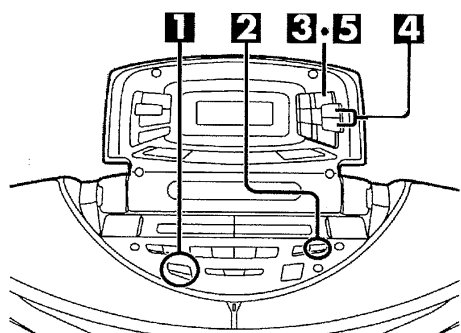
Press [**●● II REC / REC PAUSE**].

To resume recording, press [**TAPE EDIT**].

Note

- This unit is not equipped with high speed recording.
- Different types of tapes can be used at the same time.

Setting Clock and Selecting Display



Setting the Clock

The clock has a 24-hour display.

Example : Setting the clock to 13:30;

- 1** Press [].
(This turns the unit on.)
- 2** Press [TOP PANEL OPEN] to open top panel.
- 3** Press [ADJUST, CLOCK / TIMER].
"CLOCK" is displayed.
- 4** Press [+] or [-] to show desired time.
The time display can be changed in one minute units by tapping the buttons, and quickly by holding down the buttons.
- 5** While the time display is flashing, Press [ADJUST, CLOCK / TIMING].
The clock now starts operating, and the display returns to its original status.

To display the clock (When the unit is on): A

(Available only from the remote control)

Press [DISPLAY] when the unit is on.

Selecting the Display A

(Only from the remote control)

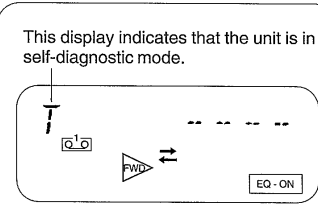
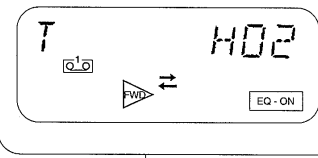
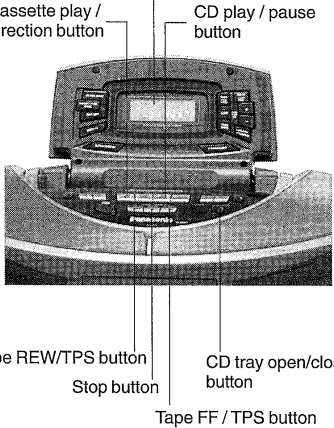
Press [DISPLAY] when the unit is on.

The display changes each time the button is pressed.

- When using the cassette
 - Ⓐ Tape counter
 - Ⓑ Present time
- When using the radio, CD or external unit
 - Ⓒ Frequency/play status
 - Ⓓ Present time
 - Ⓔ Tape counter

" — — — " appears on the tape counter display when a cassette has not been inserted.

Self Diagnostic Function

Display procedure	Display location
Cassette tapes to be read - Cassette tape with erasure-prevention tab removed on one side only (A or B). - Music cassette tape with erasure-prevention tabs intact on both sides (A and B). Note: In either case, rewind the cassette tape to about the middle. To enter the self-diagnostic mode - Connect the unit to the power supply and turn the power on. - Set reverse mode to " ↔ ". (Use the remote control attached with main unit, since the reverse mode cannot be set from the main unit.) - Check that there is no cassette tape in the compartment. - Hold down the STOP / FUNCTION (■) for at least 2 seconds, and then keep pressing together with the tape deck FF button for another 2 seconds. "T" will then appear on the LCD display. (This indicates that the unit has switched from normal display mode to self-diagnostic mode.) To view the display To view the self-diagnostic display for the DECK 1 and DECK 2: - Load a cassette tape into tape DECK 1 with the erasure-prevention tab removed on one side only (A or B). - Press the FF button, perform the fast forward winding operation for about 5 seconds and then stop winding using the stop button (■). - Remove the cassette tape, and load a music cassette (containing at least 4 seconds of music and both erasure-prevention tabs intact). - Press the play button (▶). When play begins, press either the FF button or the REW , and perform the TPS (Tape Program Search) operation in the direction in which the music is recorded. - After TPS operation has completed (when the beginning of music is found and the unit switches back to play mode), stop the tape by pressing the Stop button (■). - Repeat steps 1 ~ 5 above for DECK 2. - If an error is detected when the tape deck stop button (■) is pressed, a self-diagnostic display appears on the LCD display. (If no error occurs, the LCD display shows the tape counter.). If there is more than one error, the error display changes each time the tape deck Stop button (■) is pressed. To change between the self-diagnostic display for tape DECK 1 AND tape DECK 2, press the tape deck select button (DECK1/2). To view the self-diagnostic display for the CD player : - Press the CD tray Open / Close button (▲) to open the CD tray. - After the tray has been fully open for about 5 seconds, press the CD tray Open / Close button (▲) again to close the CD tray. - Press the stop button, self-diagnostic display on the LCD display (If no error occurs, LCD display shows "T"). Note: If this procedure is performed for tape DECK 1, DECK 2 and the CD player and an error occurs for each, the LCD display alternates between the self-diagnostic codes for tape DECK 1 and 2 and the CD player each time the Stop button (■) is pressed. (If there is no error, the LCD display shows the tape counter.) To return to normal display mode - Press the power switch once to turn the power off, then press it again to turn the power back on. To view the self-diagnostic display once again, perform steps 1 ~ 4 of "Entering self-diagnostic mode" above, then press the Stop button (■). Clearing the self-diagnostic memory - The self-diagnostic error code is stored in memory. To clear memory, first correct the error, and then remove the batteries (including the clock / memory battery) and disconnect the AC power supply. Then press and hold down the power supply button for at least 5 seconds. - Always be sure to clear memory after an error has been corrected.	This display indicates that the unit is in self-diagnostic mode.  Example of a self-diagnostic display  Display  Cassette play / direction button CD play / pause button Tape REW/TPS button Stop button CD tray open/close button Tape FF / TPS button

Display content **Note :** Items marked with (*) are automatically displayed, and do not require the procedure describe in the section "Viewing the display".

Display Code	Symptom or condition	Cause and method of correction
*U01	When operating on batteries, power goes off immediately after being turned on.	The batteries are depleted. Replace with new batteries.
*U02	Power cannot be switched on.	Check the power cord (AC) or insert fresh batteries.
H01	Cassette deck does not operate correctly.	Faulty cassette deck mechanism mode detection switch (DECK 1 : S951, DECK 2: 971), reel motor and plunger. (Check and replace)
H02	Units does not record, or the unit goes into recording mode even when the erasure prevention tabs have been removed from the cassette.	Faulty erasure-prevention tab detection switch (S974, S975) or short circuit. (Check and replace)
H03	Tape does not play, even when the tape deck play button is pressed. The motor operates when the tape deck play button is pressed, even when no cassette is loaded in the deck.	Faulty tape detection switch (DECK 1: S952, DECK 2: S972) or short-circuit. (Check and replace).
H15	The CD tray closes immediately after it is opened.	Faulty contact of the CD tray open detection switch (SW790). (Check and replace)
H16	The CD tray opens immediately after it is closed.	Faulty contact of the CD tray close detection switch (SW791). (Check and replace)
F01	When the play button is pressed, the tape advances only slightly and then stops.	Reel pulse error. (Faulty Hall IC) (Check and replace)
F02	TPS (Tape Program Search) does not work.	Faulty TPS signal detection or faulty plunger control. (Check and replace mechanism control IC)
F15	When the CD Play button is pressed when either the power is off, or from some function other than CD, it takes excessive time (10 seconds or more) for the CD to play.	Faulty traverse inner circumference position detection switch (S701). (Check and replace)
*F26	When the CD operation mode is selected by pressing the Stop button (■), "F26" is shown on the LCD display, and a CD does not play when it has been loaded.	Communication error between servo-processor IC and microprocessor IC. (Check and replace)
F75	When a CD is loaded, "NO DISC" is displayed and the CD does not play.	Faulty CD circuit power supply. (Faulty power supply IC or CD circuit power supply system.) (Check and replace). Flexible circuit board has become disconnected or broken wiring. (Check and replace) Faulty servo-processor IC. (Check and replace)

■ Operation Checks and Main Component Replacement Procedures

"ATTENTION SERVICER" Some chassis components may have sharp edges. Be careful when disassembling and servicing.

1. This section describes procedures for checking the operation of the major printed circuit boards and replacing the main components.
2. For reassembly after operation checks or replacement, reverse the respective procedures.
Special reassembly procedures are described only when required.
3. Select items from the following index when checks or replacement are required.
4. Refer the Parts No. on the page of "Main Component Replacement Procedures", if necessary.

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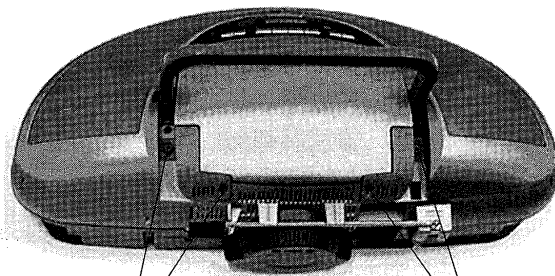
	page
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Warning : This product uses a laser diode. Refer to caution statement on page 3.

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

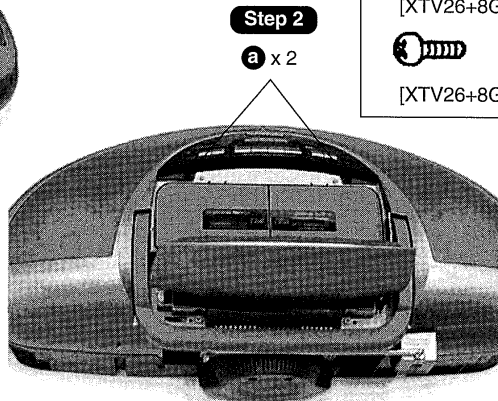
■ Checking Procedure For Each Major P.C.B

1. Checking for the PANEL P.C.B.



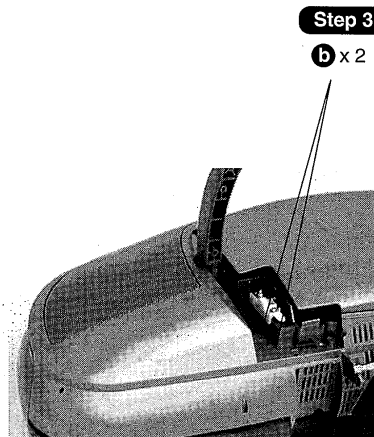
Step 1

a x 4



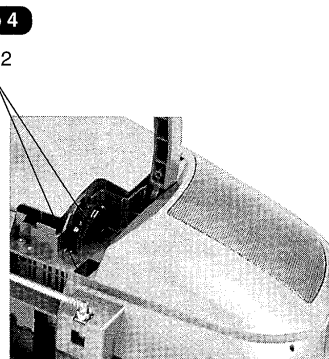
Step 2

a x 2



Step 3

b x 2



Step 4

b x 2



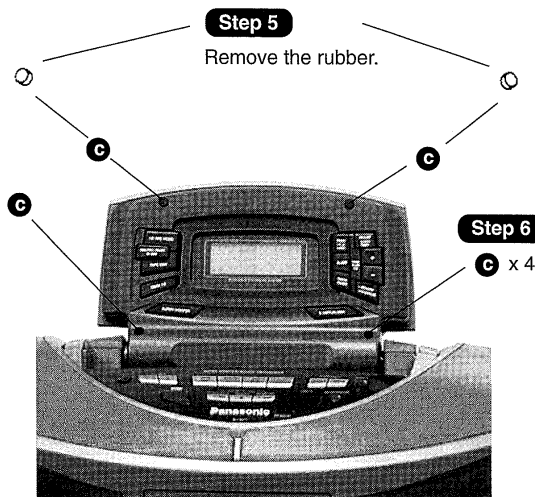
[XTV3+10GFZ]



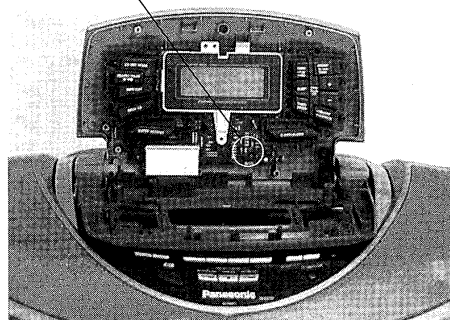
[XTV26+8G]



[XTV26+8GFZ]

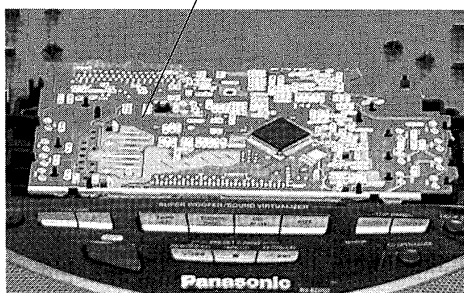


Step 7
Release the claw, remove the PANEL P.C.B. and place the P.C.B. as shown below.

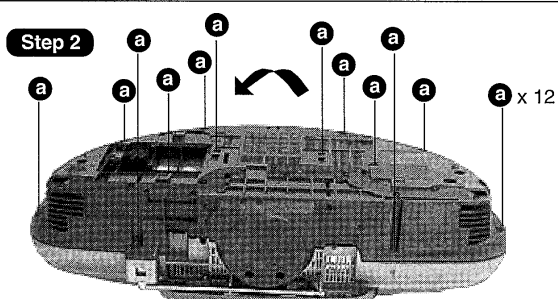
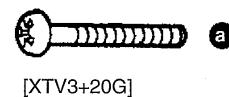


PANEL P.C.B.

- Check the PANEL P.C.B. as shown.



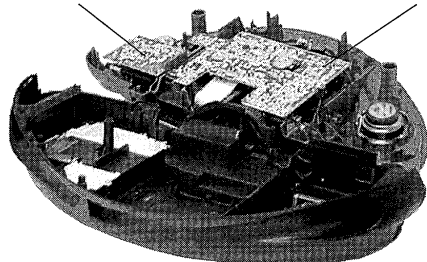
2. Checking for the SERVO, MAIN and TUNER P.C.B.



Step 1
Remove the battery cover.

TUNER P.C.B.

MAIN P.C.B.

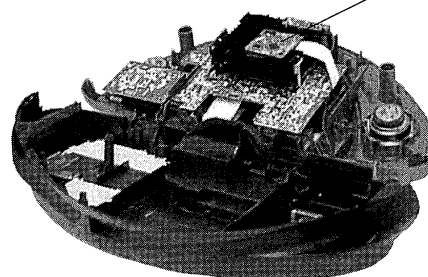


Step 3

Lift up the bottom cabinet and place it as shown below.

- Check the SERVO P.C.B. as shown.

SERVO P.C.B.



Step 4

Lift up the CD traverse unit and place it as shown on the left.

- Check the MAIN P.C.B. and TUNER P.C.B. as shown.

1. Replacement for the motor assembly.

Step 1

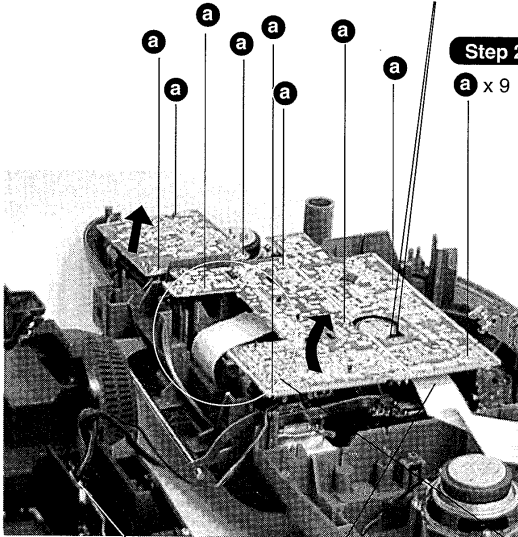
Remove the bottom cabinet.

Step 3

Desolder the two wires from the motor terminal.

Step 2

a x 9

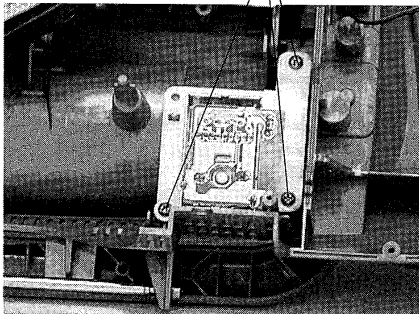


Step 4

Remove the connectors CP901 and CS702.

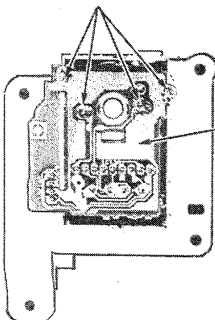
Step 6

b x 3



Step 7

Desolder



Step 8

Remove the motor P.C.B.



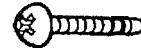
a

[XTBS26+10J]



b

[XTV3+12G]



c

[XTV26+12F]



d

[XQN2+C6]

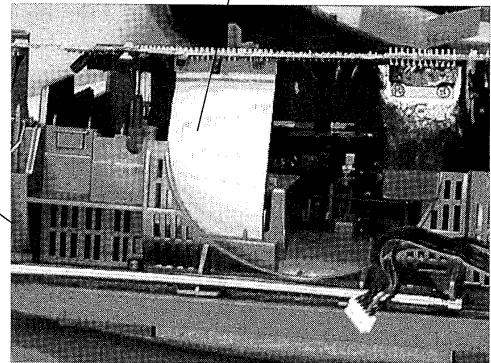


e

[XQN2+C3]

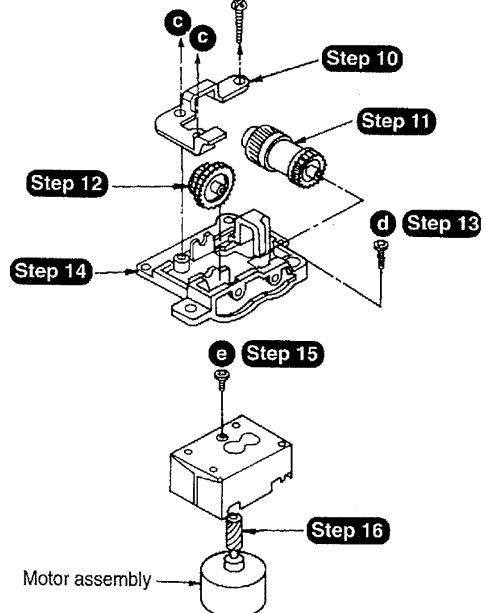
Step 5

Remove the FFC wire from CS8001 and remove the MAIN P.C.B. together with TUNER P.C.B.



Step 9

c x 3



2. Replacement for the traverse deck.

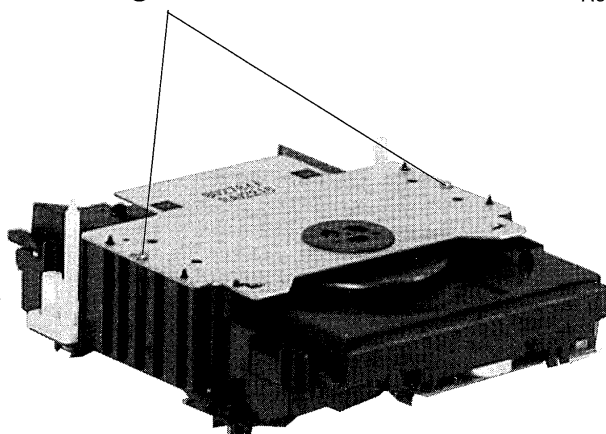


a

[XTN26+6G]

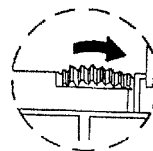
Step 1

a x 2



Step 2

Rotate the gear.

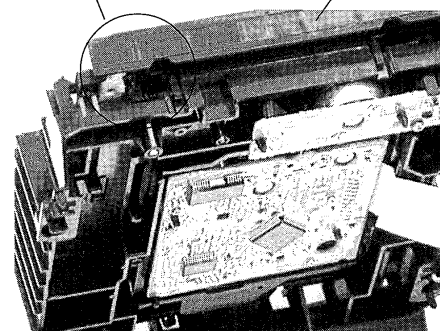


Step 3

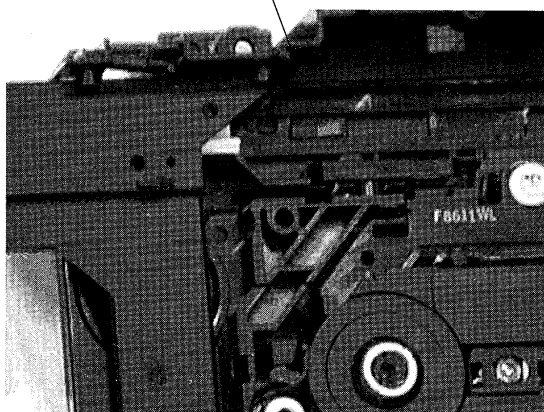
Pull out the CD tray.



CD TRAY



CLAW

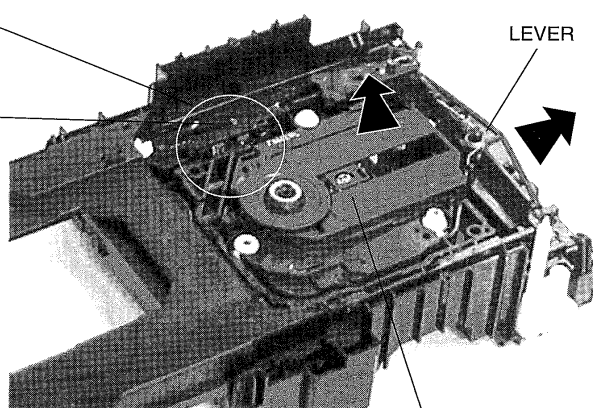


Step 4

Release the claw and pull the lever.

CLAW

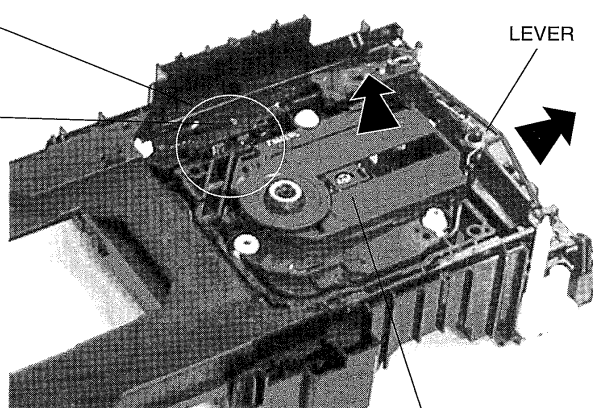
LEVER



Step 5

Take out the CD traverse unit.

CD TRAVERSE UNIT





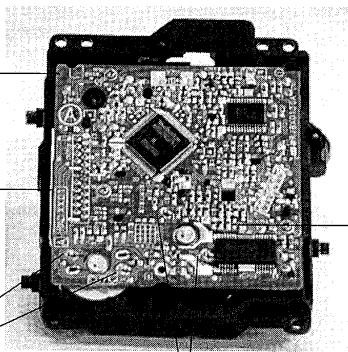
[XTN2+6G]

Step 6

b x 3

Step 7

b



Terminals of traverse motor

Terminals of spindle motor

Step 8

Desolder 2 terminals of spindle motor.

Step 9

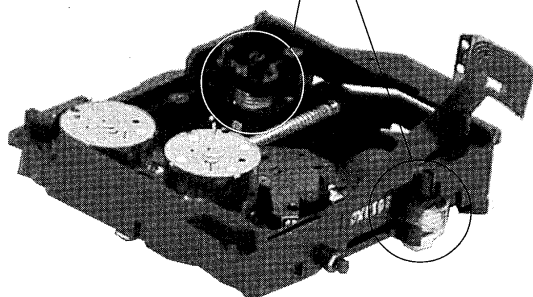
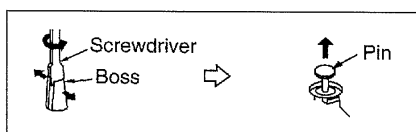
Desolder 2 terminals of traverse motor.

Step 10

Remove the flexible cable from CN701.

• Removal of the flexible cable.

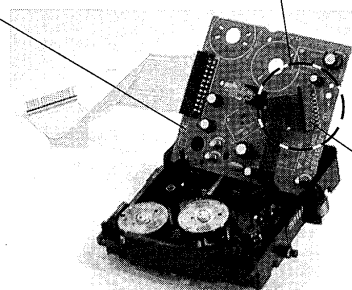
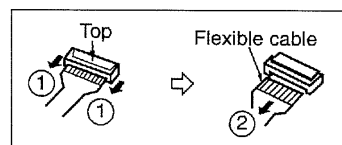
Push the top of the connector in the direction of arrow ① and pull out the flexible cable in the direction of arrow ②.



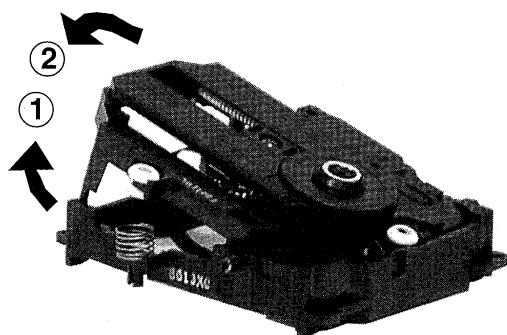
Step 11

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

SERVO P.C.B.

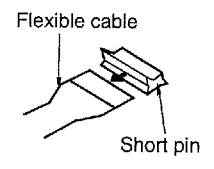


CN701



Note :

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



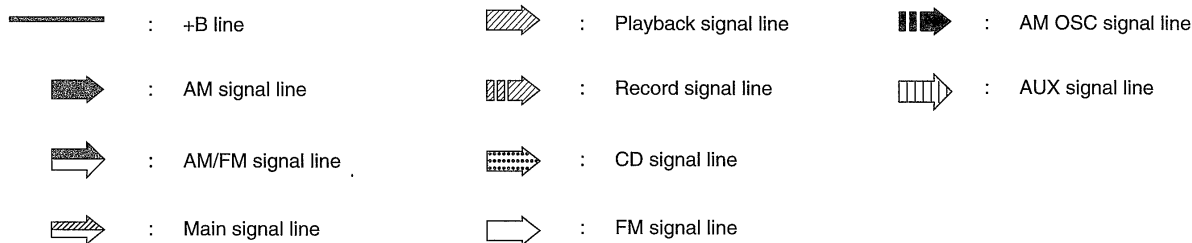
Step 12

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

Schematic Diagram

NOTES :

- | | | | |
|--------|--|---------|--|
| • S801 | : Timer Adjust Switch | • S975 | : Forward Side Record Prevention Tab Detect Switch |
| • S802 | : Memory / Clear Switch | • S1001 | : CD OPEN / CLOSE Switch |
| • S803 | : Timer fader Switch | • S1002 | : Deck 2 Eject Switch |
| • S804 | : Sleep Switch | • S1003 | : Cobra Open Switch |
| • S805 | : Tuning / Time Set Switch (decrease) | • S1004 | : Cobra Close Switch |
| • S806 | : Tuning / Time Set Switch (increase) | • S1005 | : Volume Control Switch (decrease) |
| • S807 | : Record / Play Timer Switch | • S1006 | : Volume Control Switch (increase) |
| • S808 | : CD Rec Mode Switch | • S1007 | : Deck 1 Eject Switch |
| • S809 | : Record / Record Pause Switch | • S1008 | : Power Switch |
| • S810 | : Tape Edit Switch | • S1009 | : CD / Tape Stop Switch |
| • S811 | : Deck 1/2 Switch | • S1010 | : Auxillary Switch |
| • S812 | : Super Woofer Switch | • S1011 | : CD Play / Pause Switch |
| • S813 | : Sound Virtualizer Switch | • S1012 | : Tuner Band Select Switch |
| • S951 | : Mode Switch | • S1013 | : Tape Play Switch |
| • S952 | : Cassette Tape Detect Switch | • S1014 | : Tape Forward Switch |
| • S953 | : CrO ₂ Tape Detect Switch | • S1015 | : Tape Rewind Switch |
| • S971 | : Mode Switch | • SW790 | : CD Tray Open Detect Switch |
| • S972 | : Cassette Tape Detect Switch | • SW791 | : CD Tray Close Detect Switch |
| • S973 | : CrO ₂ Tape Detect Switch | • SW901 | : AC / Battery Select Switch (JK901) |
| • S974 | : Reverse Side Record Prevention Tab Detect Switch | • SW902 | : Voltage Selector Switch |



• Battery Current consumption:

Volume min..... 375 mA (FM)
 375 mA (AM)
 395 mA (TAPE)
 515 mA (CD)

Volume max..... 1220 mA (FM)
 860 mA (AM)
 1720 mA (TAPE)
 1900 mA (CD)

Measurement condition:

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

- The voltage value and waveforms are the reference voltage of this unit measured by DC electronic voltmeter (high impedance) and oscilloscope on the basis of chassis. Accordingly, there may arise some error in voltage values and waveforms depending upon the internal impedance of the tester or the measuring unit.

No mark Playback
 (()) CD

< > FM
 () AM

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.

•Put a conductive mat on the work table.

•Ground the soldering iron.

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

•Importance safety notice:

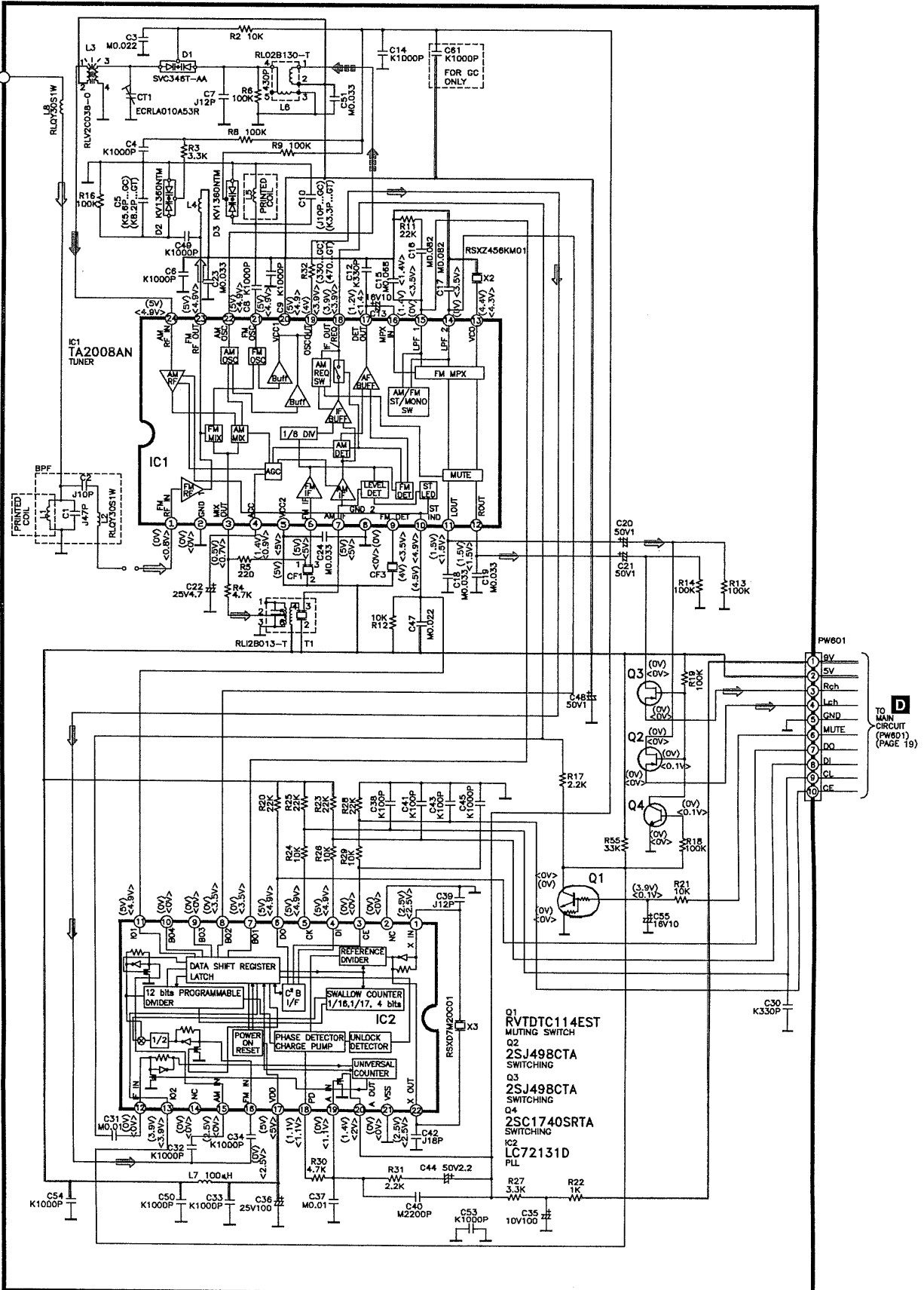
Components identified by  mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used. When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

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

— : +B line : AM OSC signal line : AM signal line : FM/AM signal line : FM signal line

B TUNER CIRCUIT (P.C. BOARD ON PAGE 25)

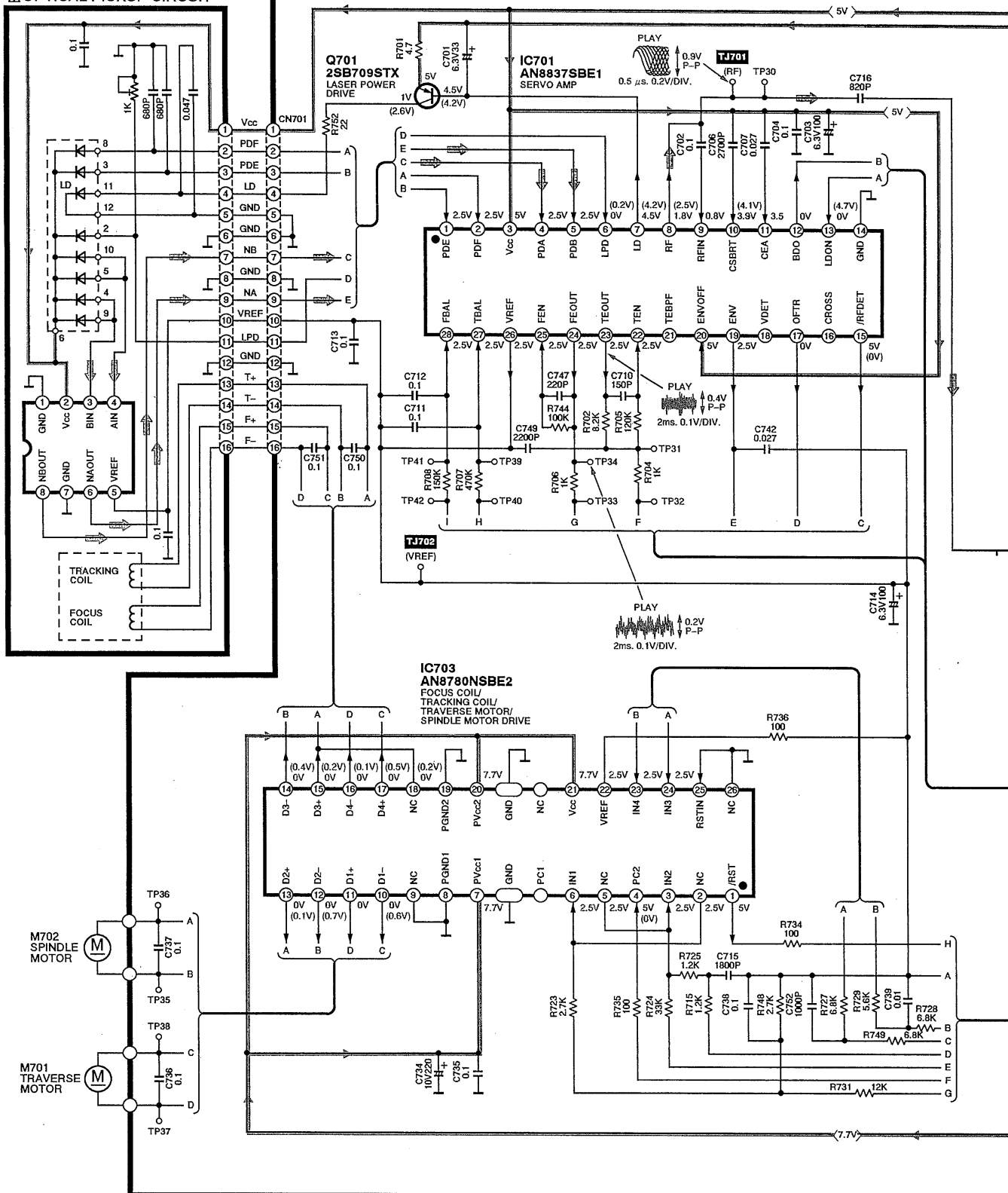
TELESCOPIC ANTENNA



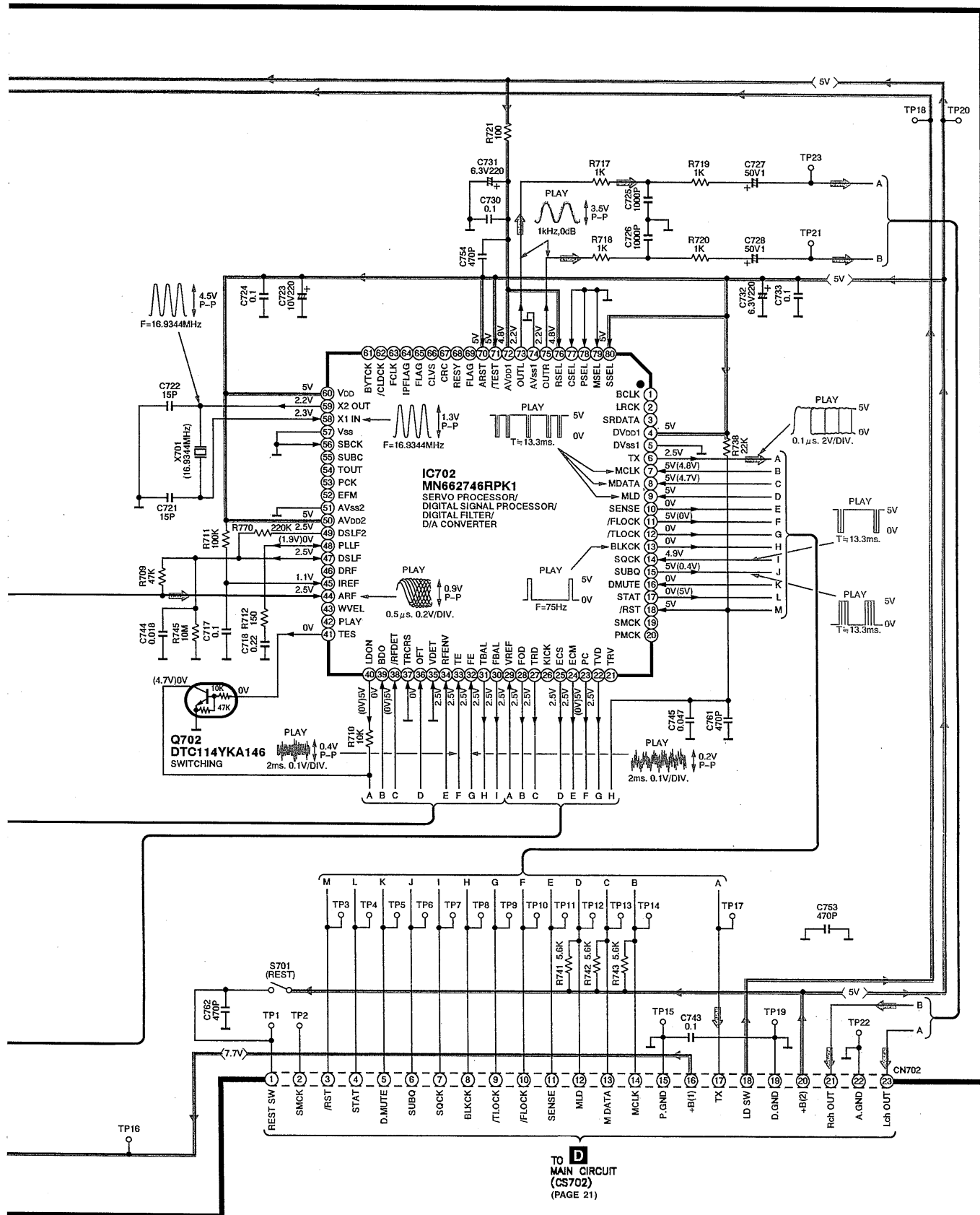
A CD SERVO CIRCUIT (P.C.BOARD ON PG: 25)

: +B line
 : CD signal line

Δ OPTICAL PICKUP CIRCUIT



— : +B line
 ⇨ : CD signal line

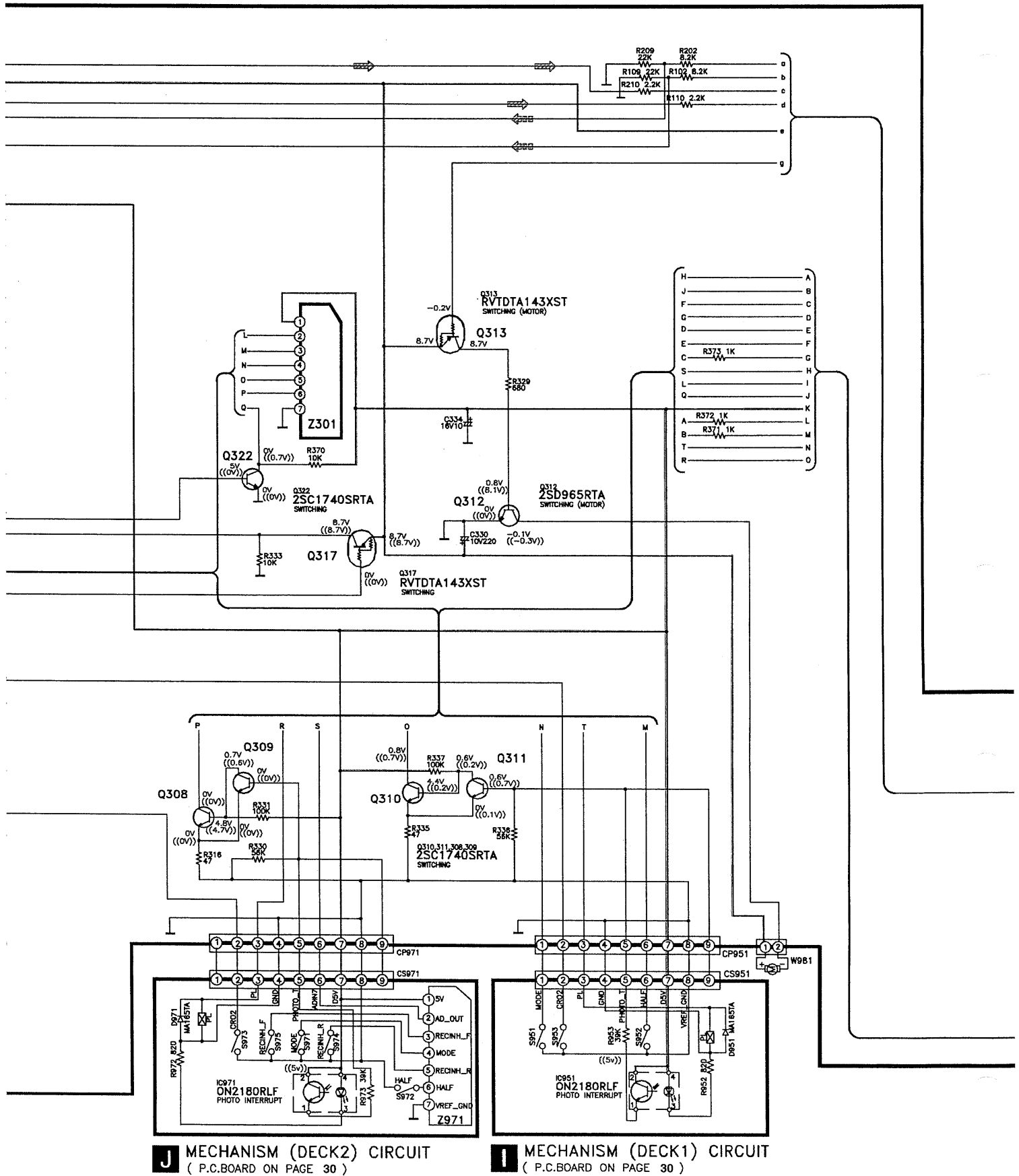


(P.C.BOARD ON PAGE 27)

— : +B line : Record signal line : Playback signal line

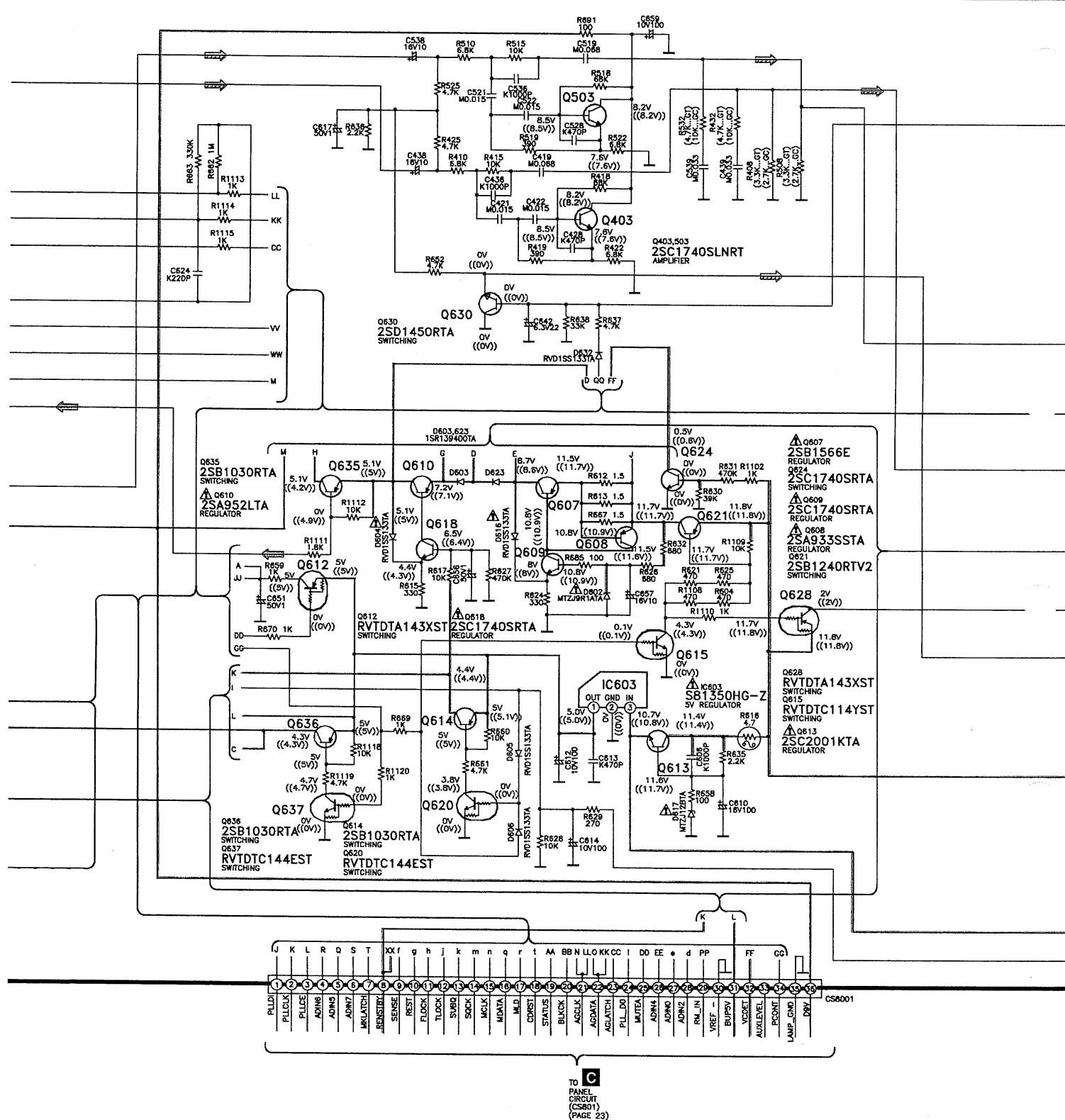


— : +B line  : Record signal line  : Playback signal line





— : +B line : Main signal line : CD signal line

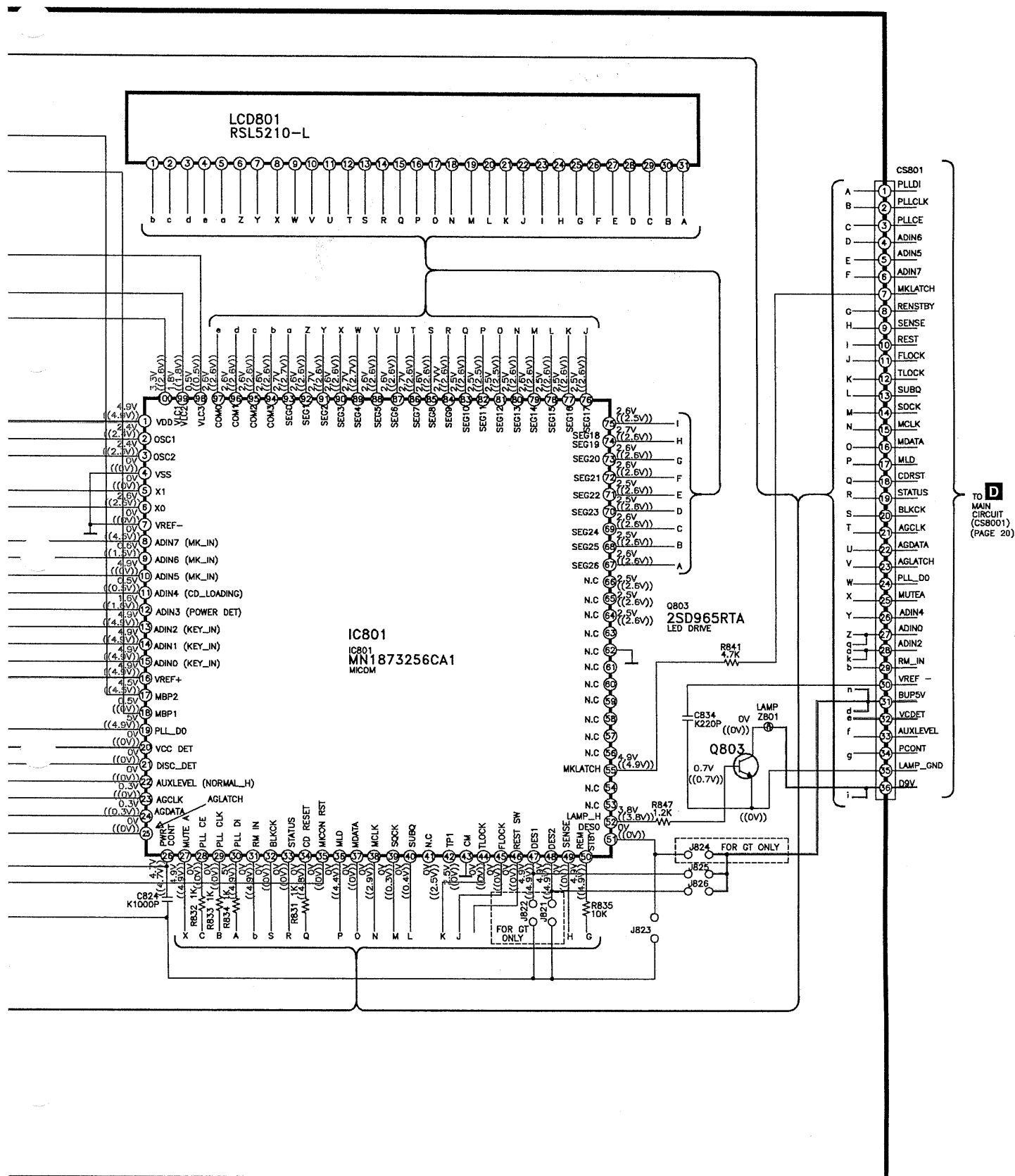




(P.C.BOARD ON PAGE 26)



— : +B line



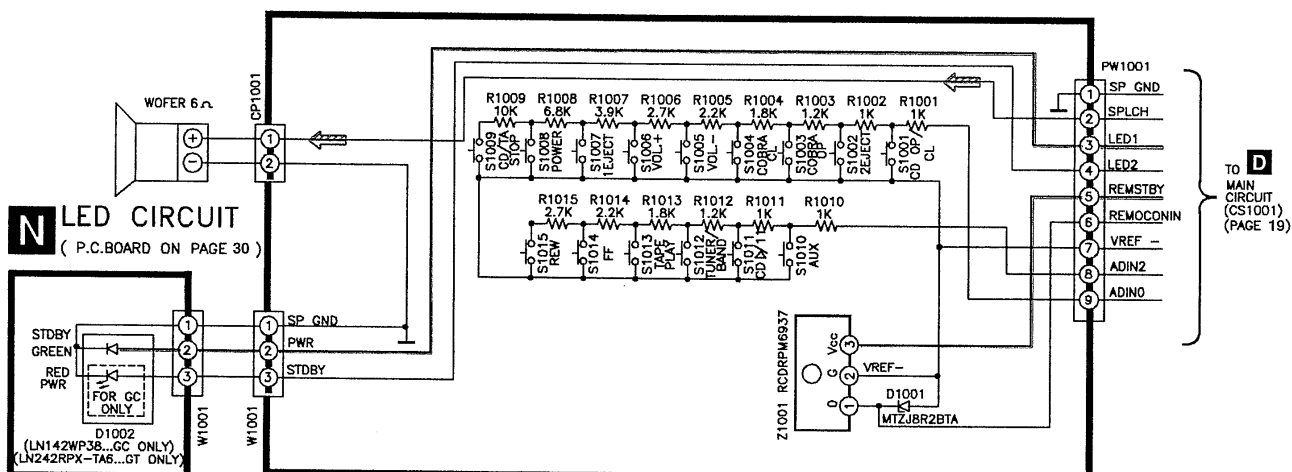
D
TO MAIN
CIRCUIT
(CS8001)
(PAGE 20)

— : +B line - - - : -B line

⇒ : Main signal line

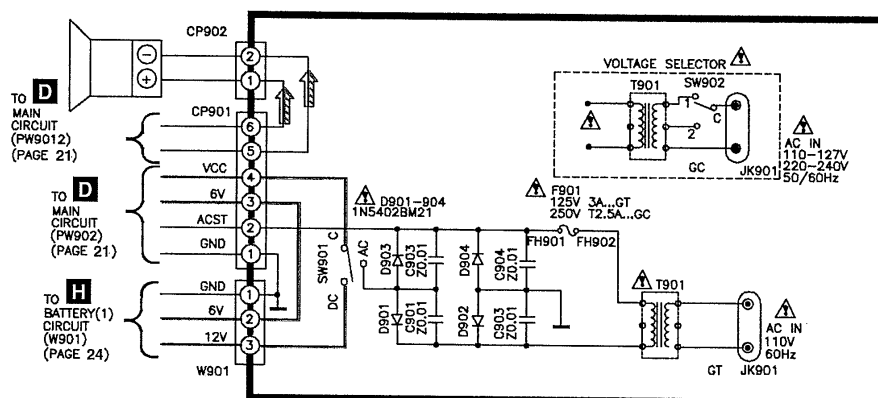
E CONTROL CIRCUIT

(P.C.BOARD ON PAGE 28)



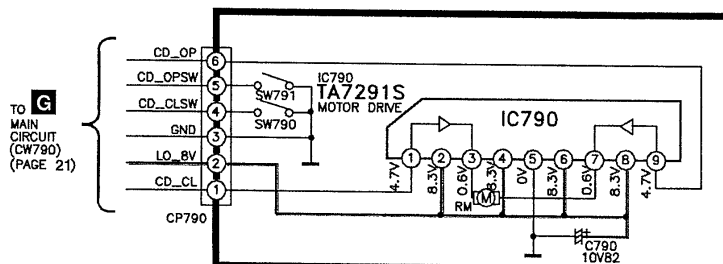
F POWER SUPPLY CIRCUIT

(P.C.BOARD ON PAGE 29)



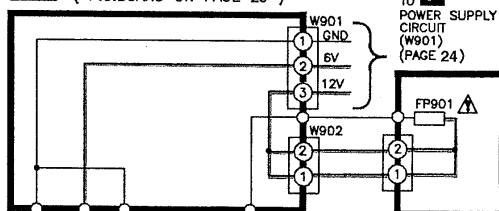
K LOADING MOTOR CIRCUIT

(P.C.BOARD ON PAGE 30)



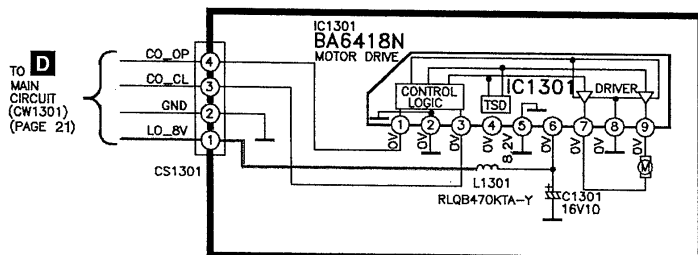
H BATTERY(1) CIRCUIT

(P.C.BOARD ON PAGE 29)



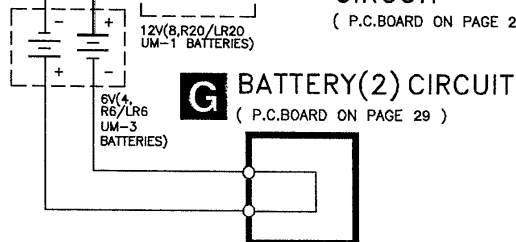
L MOTOR (TOP PANEL) CIRCUIT

(P.C.BOARD ON PAGE 30)



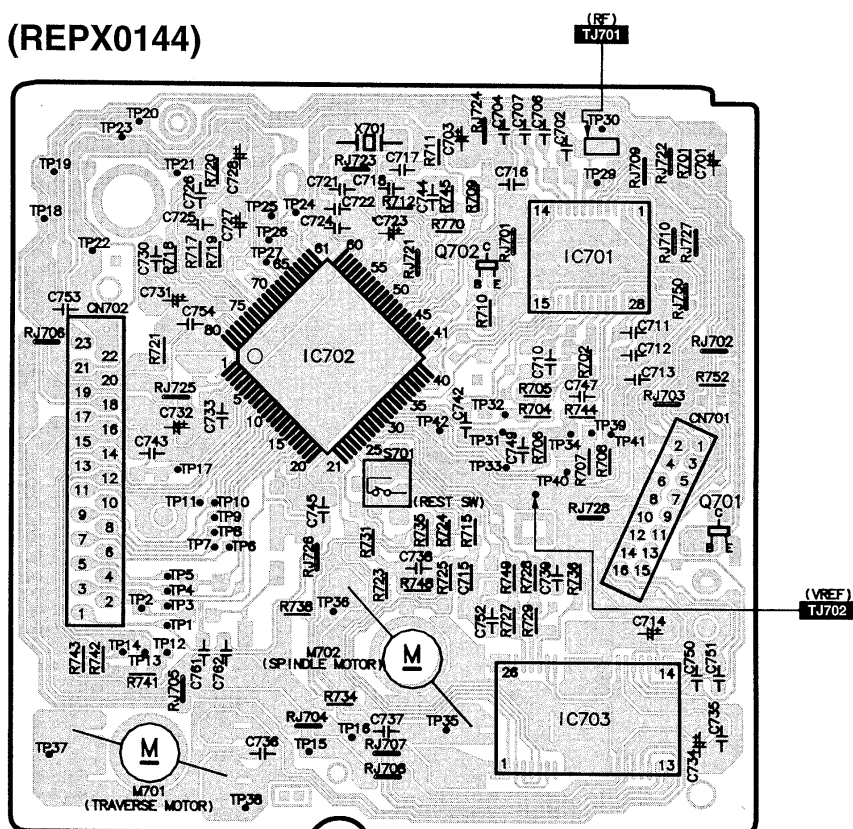
M BATTERY(3) CIRCUIT

(P.C.BOARD ON PAGE 29)

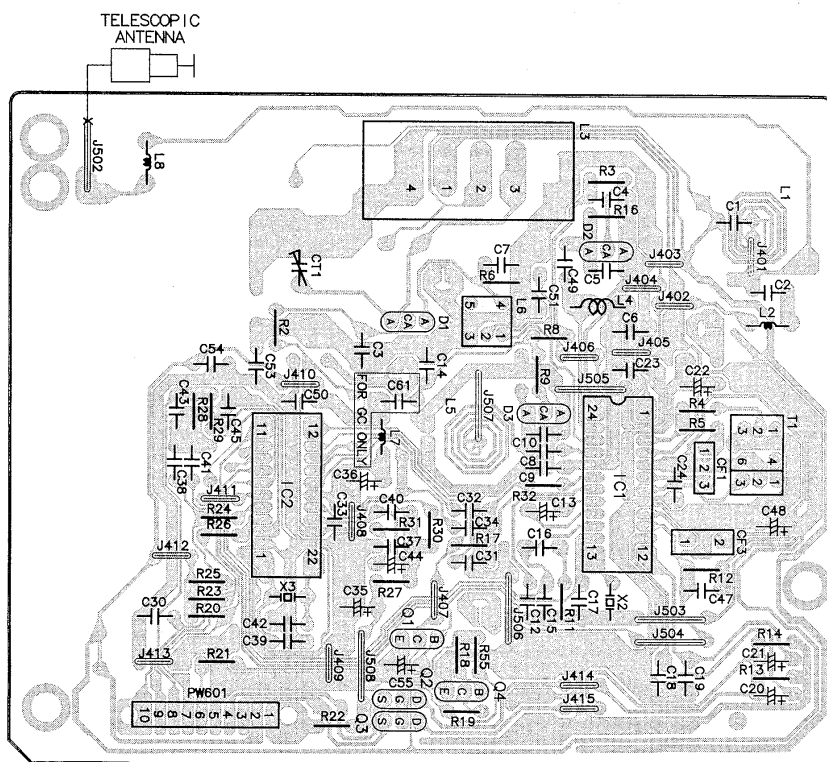


Printed Circuit Board

A SERVO P.C.B. (REPX0144)



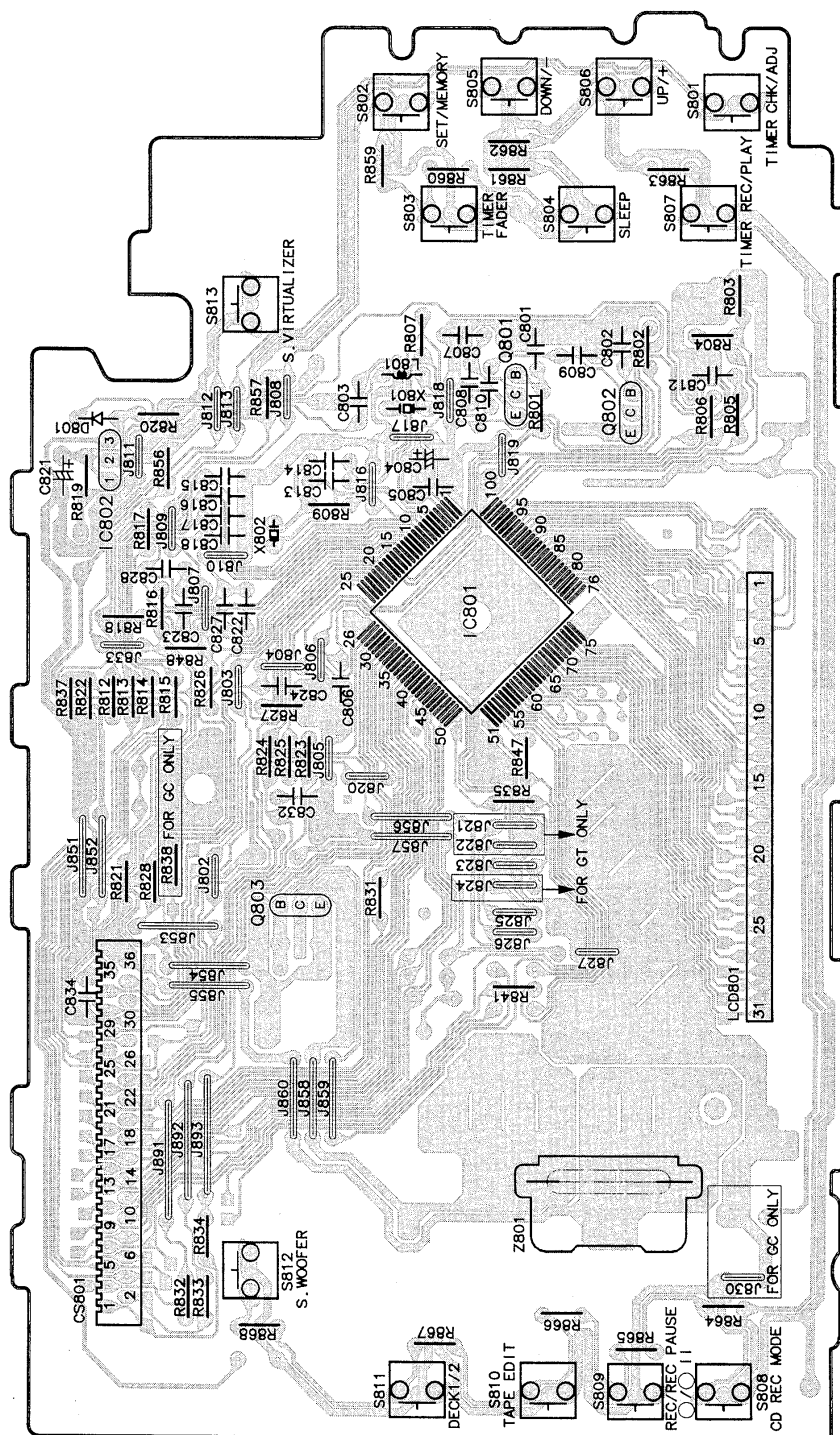
B TUNER P.C.B. (REP2730B) GT (REP2730C) GC



A B C D E F G

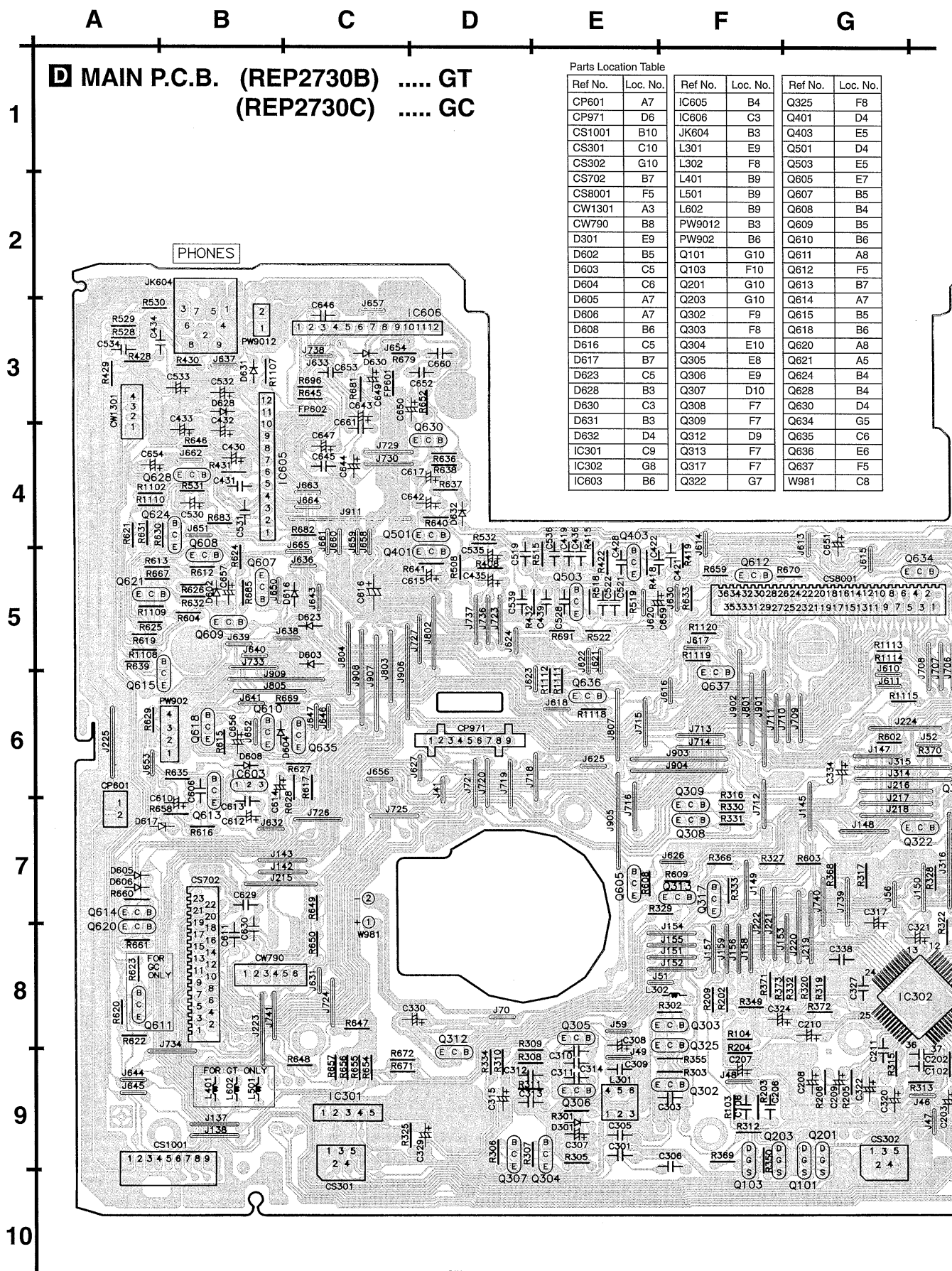
**■ PANEL P.C.B. (REP2731B) GT
(REP2731C) GC**

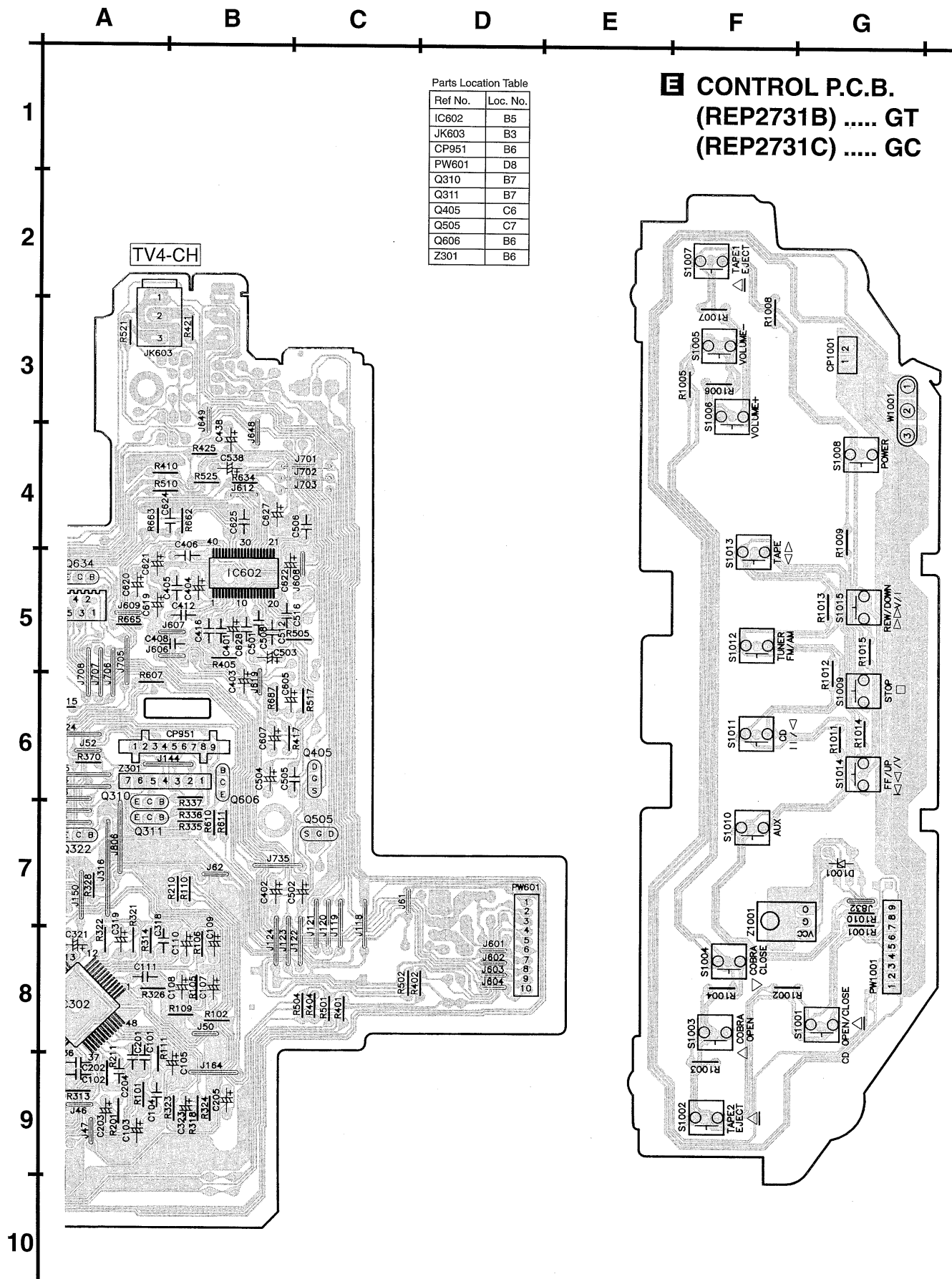
1
2
3
4
5
6
7
8
9
10



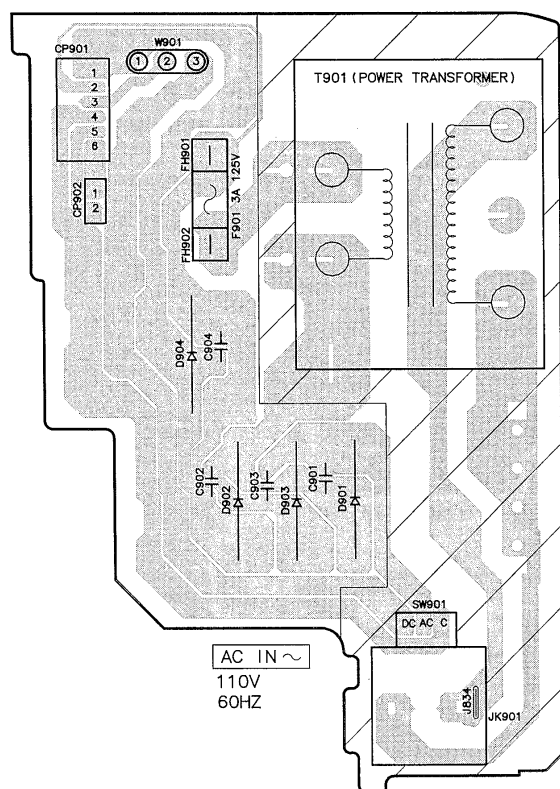
Parts Location Table

Ref No.	Loc. No.
CS801	B7
IC801	D5
IC802	B4
LCD801	F5
L801	D3
Q801	E3
Q802	E4
Q803	C6
S801	F2
S802	D2
S803	D3
S804	E3
S805	D2
S806	E2
S807	F3
S808	F9
S809	E9
S810	E9
S811	D9
S812	C9
S813	C3
X801	D4
X802	C4
D801	B4
Z801	E8

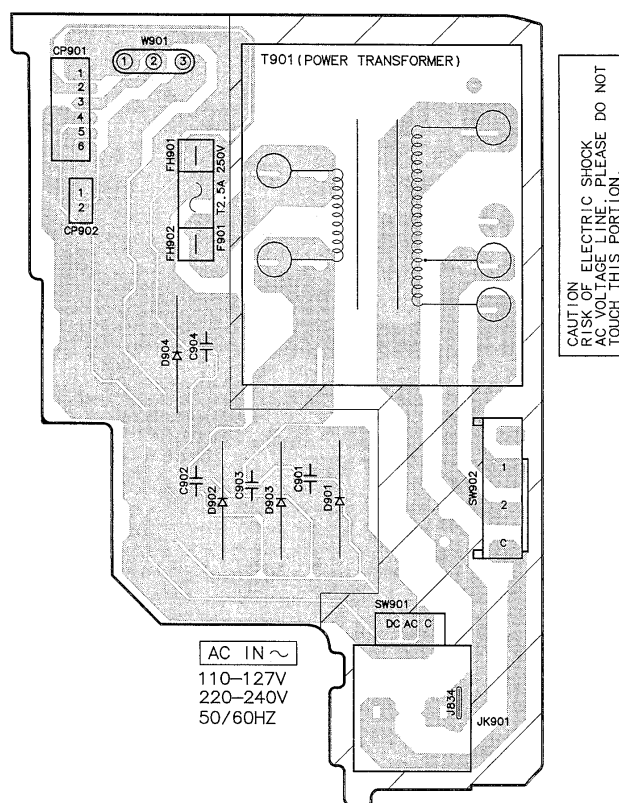




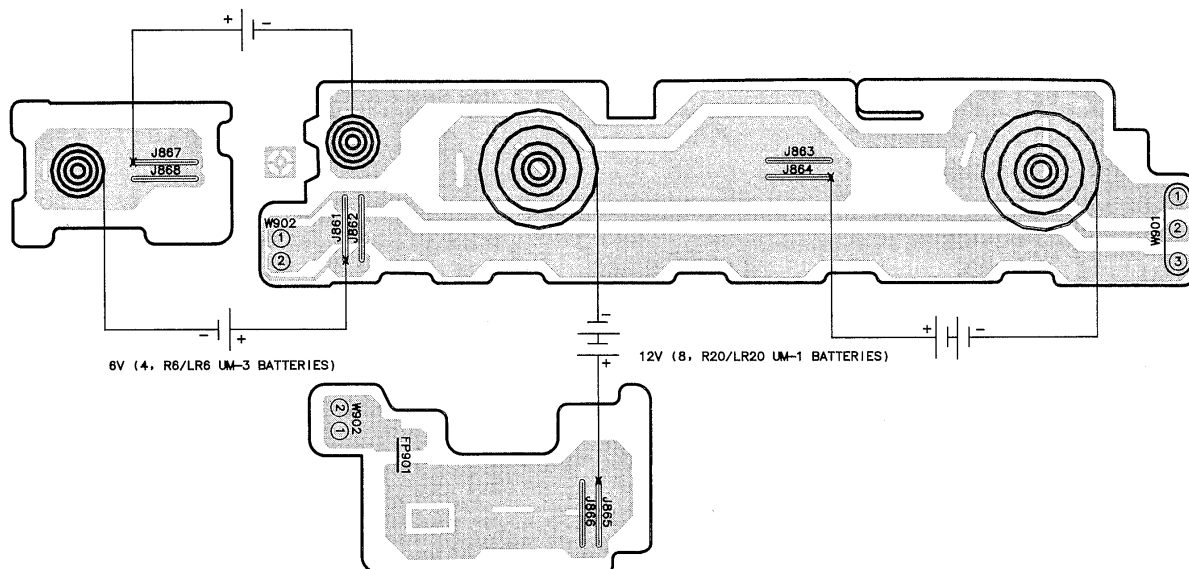
F POWER SUPPLY P.C.B.
(REP2731B) GT



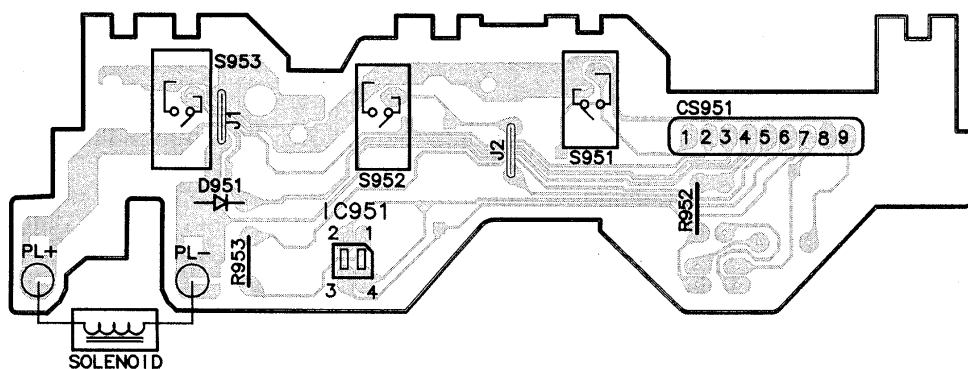
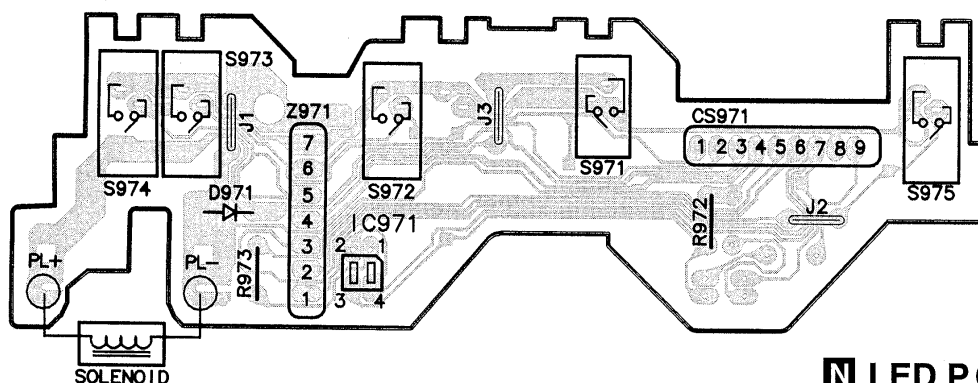
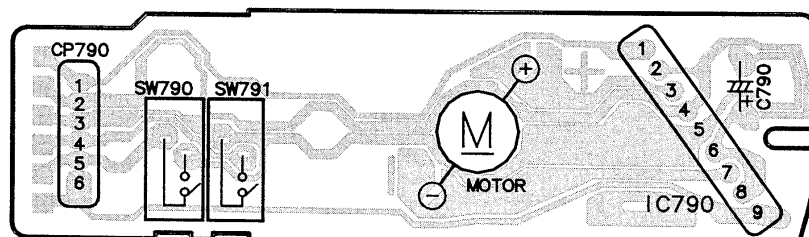
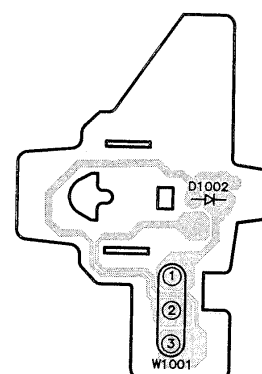
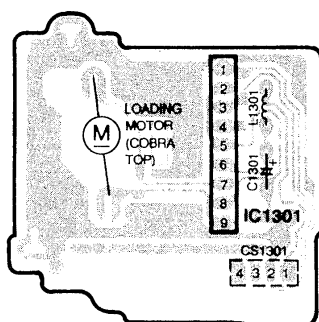
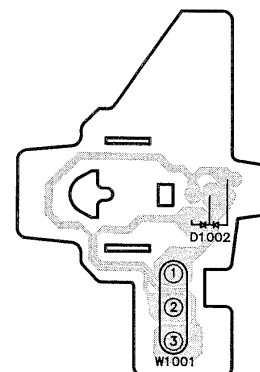
F POWER SUPPLY P.C.B.
(REP2731C) GC



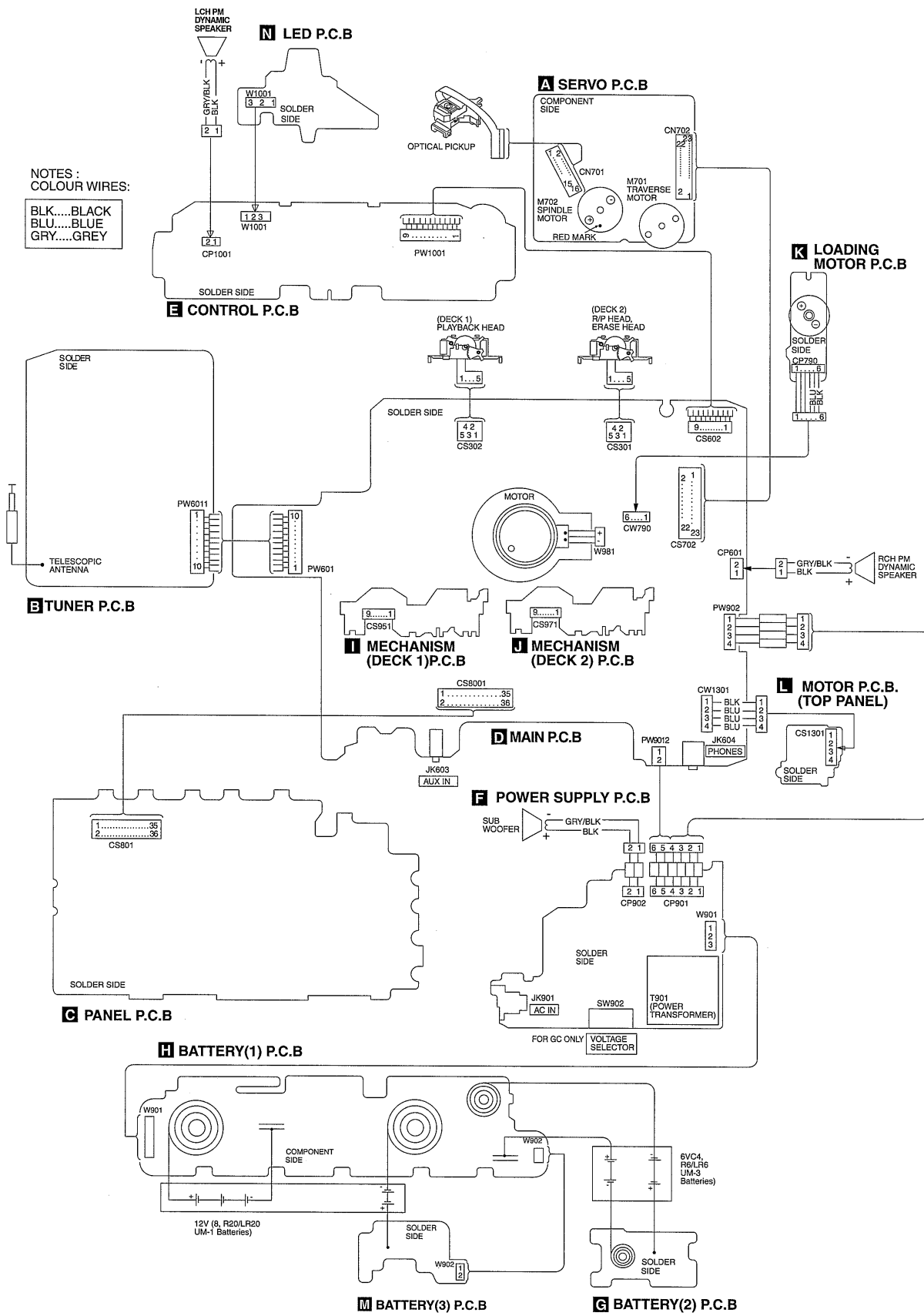
G BATTERY (2) P.C.B.
(REP2731B) GT
(REP2731C) GC



M BATTERY (3) P.C.B. (REP2731B) GT
(REP2731C) GC

I MECHANISM DECK 1 P.C.B. (REPX0108A)**J MECHANISM DECK 2 P.C.B. (REPX0108)****K LOADING MOTOR P.C.B. (REP1960A)****N LED P.C.B. (REP2731B) GT****L MOTOR P.C.B. (REP1977A)****N LED P.C.B. (REP2731C) GC**

■ Wiring Connection Diagram





■ Measurements and Adjustments

■ TUNER SECTION

● ALIGNMENT INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT	
1. Set power source voltage to 9 V DC.	4. Set volume level to 40.
2. Set power switch to ON.	5. Output of signal generator should be no higher than necessary to obtain an output reading.
3. Set function switch to TUNER / AM.	
Note : No FM STEREO alignment is required for this Tuner used. The parts other than the ones listed below are aligned at the factory before they are supplied. Therefore, alignment of those parts is unnecessary when used for replacement.	

● AM-RF 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 signal into loop of receiver.	594 kHz	Point of non-interference.(on/ about 600kHz)	Headphone Jack (32Ω) (Fabricate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.	[*1] L3 (AM ANT Coil)	Adjust for maximum output.
"	1503 kHz	"	"	CT1 (AM ANT Trimmer)	Adjust for maximum output.
[*1] Fix antenna coil with wax after completing alignment.					

● FM-RF 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 signal into loop of receiver.	76 kHz	Point of non-interference.(on/ about 600kHz)	Headphone Jack (32Ω) (Fabricate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.	L4 (AM IFT)	Adjust for maximum output.
[*1] Fix antenna coil with wax after completing alignment.					

■ CASSETTE DECK SECTION

● ALIGNMENT INSTRUCTIONS

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT					
1. Set power source voltage to 9 V DC.			3. Set function switch to TAPE.		
2. Set power switch to ON.			5. Set volume level to 40.		

● HEAD AZIMUTH ALIGNMENT

TEST TAPE	INDICATOR (ELECTRONIC VOLTMETER or OSCILLOSCOPE)	ADJUSTMENT	REMARKS
QZZCFM (8 kHz, -20 dB)	Headphone 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. 3)	1. Insert a test tape (QZZCFM) and start playback in the forward direction. 2. Adjust the azimuth screw for maximum waveform on the oscilloscope and the similar output on L and R channels. 3. When adjusting the azimuth in the reverse direction, repeat the adjustment several times because of a little slip on the forward direction side.

CAUTION :

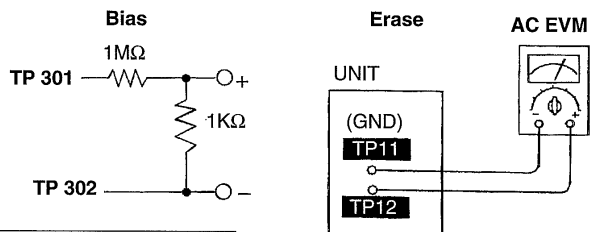
- Please remove the screw-locking bond left on the head base when replacing the azimuth screw.
- After the adjustment, apply screwlock to the azimuth adjusting screw. (Screw-locking bond: RZZ0L01)

● TAPE SPEED ALIGNMENT

TEST TAPE	EQUIPMENT CONNECTION ELECTRONIC COUNTER	ADJUSTMENT	SPECIFICATION	REMARKS
QZZCWAT (3 kHz, -10 dB)	Headphone Jack (32Ω) (Fabricate the plug as shown in Fig.2 and then connect the lead wires of the plug to the measuring instrument.)	Motor VR. (shown in Fig. 4)	3000 ± 60 Hz	1. Insert a test tape (QZZCWAT) in DECK 2 and start playback in the forward direction. 2. Adjust motor VR for output value of 3000 ± 20 Hz shown on frequency counter. 3. Check tht the DECK 2 REV and DECK 1 FWD/REV tape speed are within DECK 2 FWD tape speed ± 40 Hz.

● BIAS AND ERASE VOLTAGE CHECK

- Set the unit to "AUX" position.
- Insert the Normal blank tape (QZZCRA) into DECK 2 and set the unit to "REC" mode (use "● REC / STOP" key).
- Measure and make sure that the output is within the standard value.
- Insert the CrO₂ tape (QZZCRX).
- Repeat steps 2 and 3.



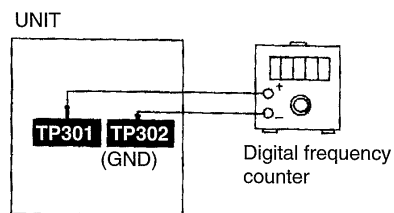
Bias voltage for Deck 2 (Standard value) : 19 ± 4 mV (Normal)
 27 ± 5 mV (CrO₂)

Erase voltage for Deck 2 (Standard value) : more than 100mV (Normal)
more than 150mV (CrO₂)

● BIAS FREQUENCY ADJUSTMENT (DECK 2)

- Set the unit to "AUX" position.
- Insert the Normal blank tape (QZZCRA) into DECK 2 and set the unit to "REC" mode (use "● REC / STOP" key).
- Adjust L201 so that the output frequency is within the standard value.

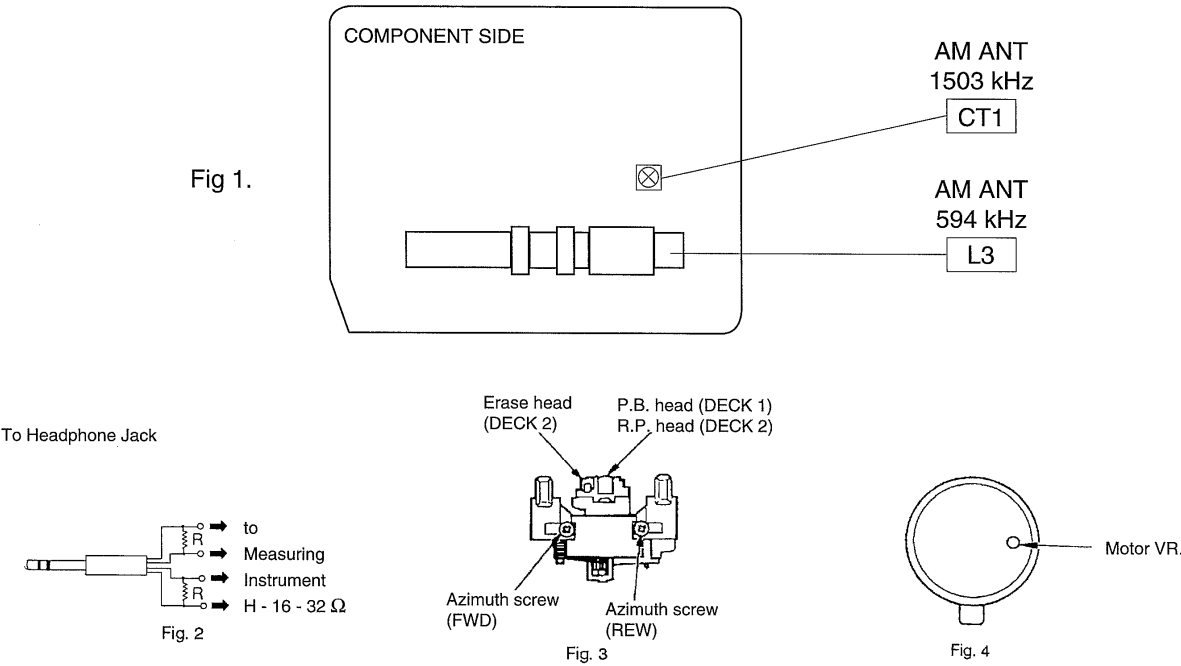
Standard Value : 98 ± 8 kHz



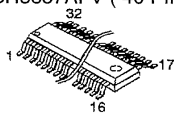
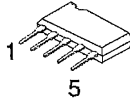
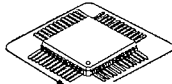
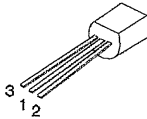
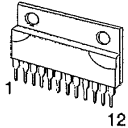
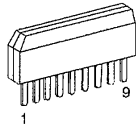
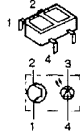
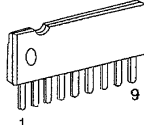
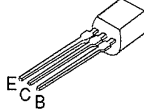
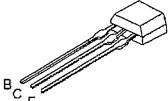
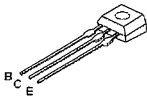
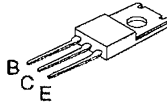
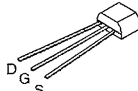
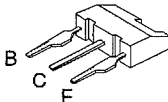
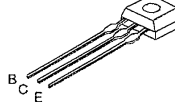
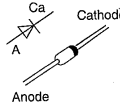
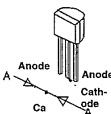
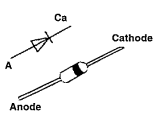
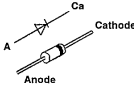
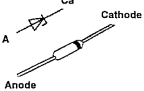
■ CD SECTION

Alignment is unnecessary for CD section of this unit.

■ ALIGNMENT POINTS



■ Terminal Guide of ICs, Transistors & Diodes

TA2008AN (24 PIN) LC72131D (22 PIN) BH3857AFV (40 PIN) 	BA7755A (5 PIN) 	CXA1998AQ (48 PIN) MN1873256CA2 (100 PIN) 	S81350HG-Z (3 PIN) S-80830ANY-Z (3 PIN) 	AN7135 (12 PIN) 	
TA7291S (9 PIN) 	ON2180RLC 	BA6418N (9 PIN) 	2SD965RTA 2SA952LTA 2SC2001KTA 	2SC1740SRTA RVTDTA144TST RVTDTA143XST RVTDTA144EST RVTDTA144YST 2SC1740SLNST 2SC2389SSTA RVTDTA144EST 	
2SB1030RTA 	2SB1566E 	2SJ498CTA 2SJ498DTA 	2SB1240RTV2 	2SA933SSTA 	2SD1450RTA 
1SR139400TA 	SVC346T-AA KV1360NTM 	RVD1SS133TA MA165TA 	1N5402BM21 	MTZJ9R1ATA MTZJ12BTA MTZJ8R2BTA RB441Q40T77 LN142WP38 LN242RPX-TA6 	

■ Terminal Function of IC's

• IC801 (MN1873256CA1) MICROPROCESSOR

Pin No.	Mark	I/O	Function
1	VDD	I	Power supply +5V
2	OSC2	O	Main clock 6MHz Output
3	OSC1	I	Main clock 6MHz Input
4	VSS	--	GND
5	XI	I	Sub Clock 32.768kHz
6	XO	O	Sub Clock 32.768kHz
7	VREF-	--	Ref Voltage input to AD converter
8	ADIN7	I	DECK AD SW1 (RECIN_F, MODE2, RECIH_R, HALF2)
9	ADIN6	I	DECK AD SW2 (HALF1, MODE1, PHOTO1, PHOTO2)
10	ADIN5	I	DECK AD SW3 (TPS)
11	ADIN4 (LOADING)	I	CD TRAY OPEN / CLOSE SW (OPEN_SW,CLOSE_SW)
12	ADIN3 (PWRDET)	I	Power supply Voltage detect
13	ADIN2	I	Operation Keys Input 2
14	ADIN1	I	Operation Keys Input 1
15	ADIN0	I	Operation Keys Input 0
16	VREF+	--	Ref Voltage input to AD converter
17	MBP2	O	Microcomputer Beat-Proof Control 1
18	MBP1	O	Microcomputer Beat-Proof Control 1
19	PLL_DO	I	Tuner PLL IC DATA "DO" Input
20	VCCDET	I	VCC Detect Input
21	NC	--	No connection
22	AUXLEVEL	I	AUX Input Level Control
23	ACLK	O	Clock Output for ASP & Deck IC
24	ADATA	O	Data Output for ASP & Deck IC
25	ALATCH	O	Latch Output for ASP
26	PWRCONT	O	Power Control Output

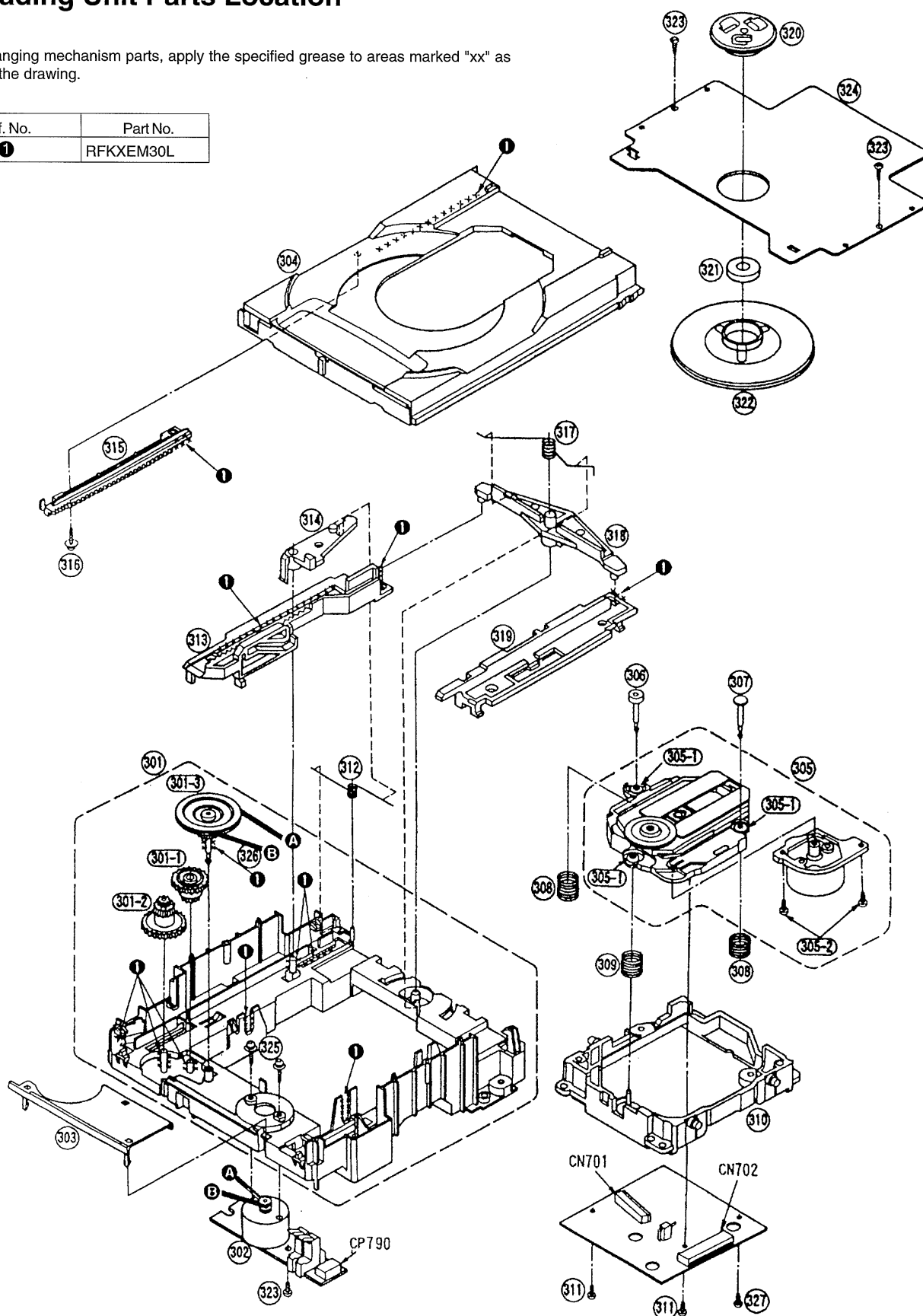
Pin No.	Mark	I/O	Function
27	MUTEA	O	Audio Mute Control Output
28	PLL_CE	O	Tuner PLL IC Chip Enable "CE" Output
29	PLL_CLK	O	Tuner PLL IC Clock "CL" Output
30	PLL_DI	O	Tuner PLL IC Data "DI" Output
31	RMT_IN	I	Remote Control Signal Input
32	BLKCK	I	CD Subcode Block Clock Input
33	STATUS	I	CD Status Input
34	CD RESET	O	CD Reset Control Output
35	RESET	I	Reset Input
36	MLD	O	CD Signal Processor LSI Load Output
37	MDATA	O	CD Signal Processor LSI Data Output
38	MCLK	O	CD Signal Processor LSI Clock Output
39	SQCK	O	CD Subcode Qdata Clock Output
40	SUBQ	O	CD Subcode Qdata Clock Output
41	SBO0	--	No connection
42	SYNC	--	No connection
43	CM	I	Chip Mode
44,45	*NC	--	No connection
46	REST SW	I	CD TRV Limit Switch Input
47,48	REG2	I	Region Select Input 2
49	SENSE	I	SENSE
50	REMSTBY	I	Remote Standby
51	REG0	O	Region Select Input 3
52	LAMP_H	O	LCD
53,54	NC	--	No connection
55	MKLATCH	O	Latch Output for ASP
56~65	NC	--	No connection
66~93	SEG27~SEG0	O	LCD Segment Output
94~97	COM3~COM0	O	LCD Common Output
98~100	VLC3~VLC1	I	LCD bias reference voltage input

■ Loading Unit Parts Location

Note :

When changing mechanism parts, apply the specified grease to areas marked "xx" as shown in the drawing.

Ref. No.	Part No.
①	RFKXEM30L

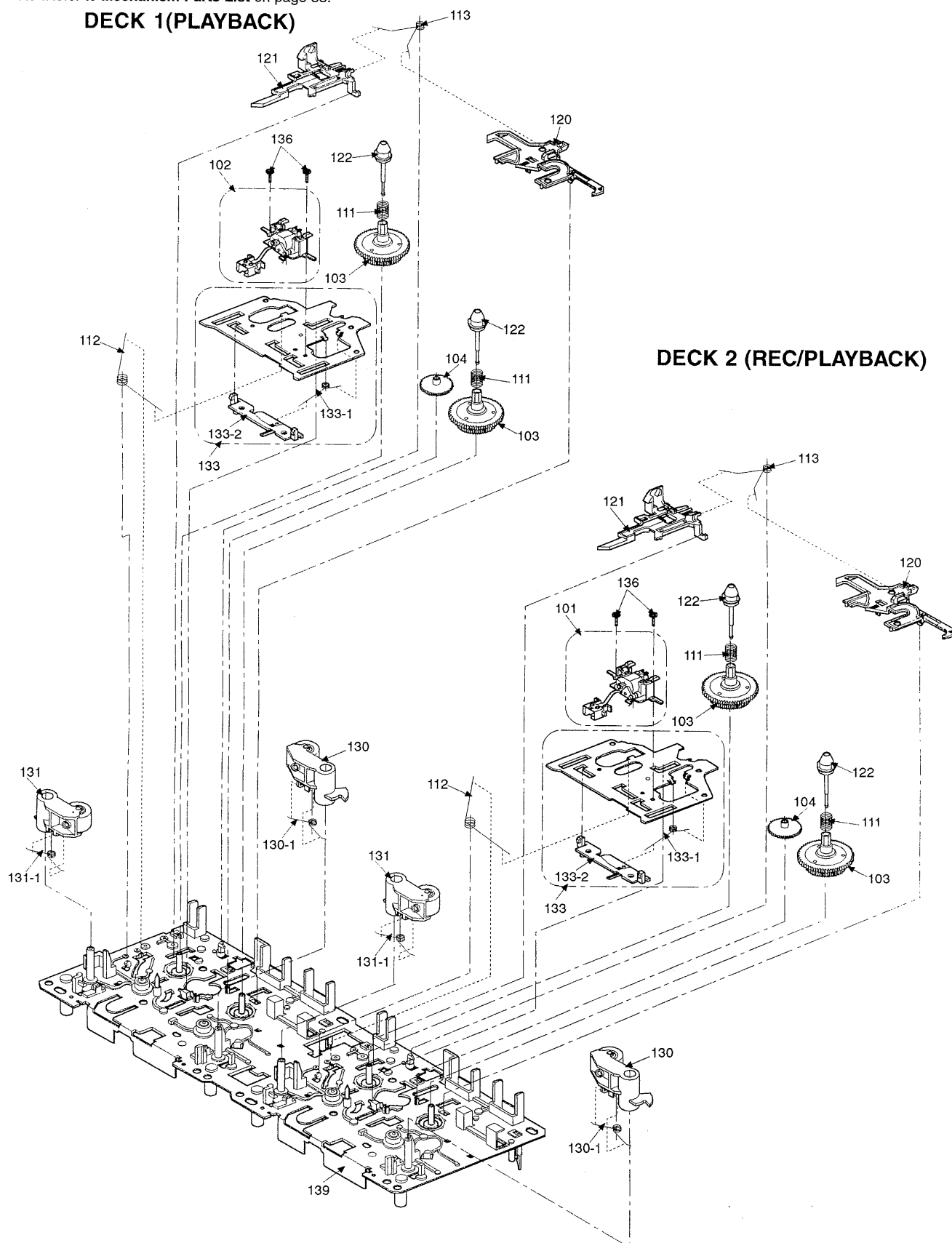


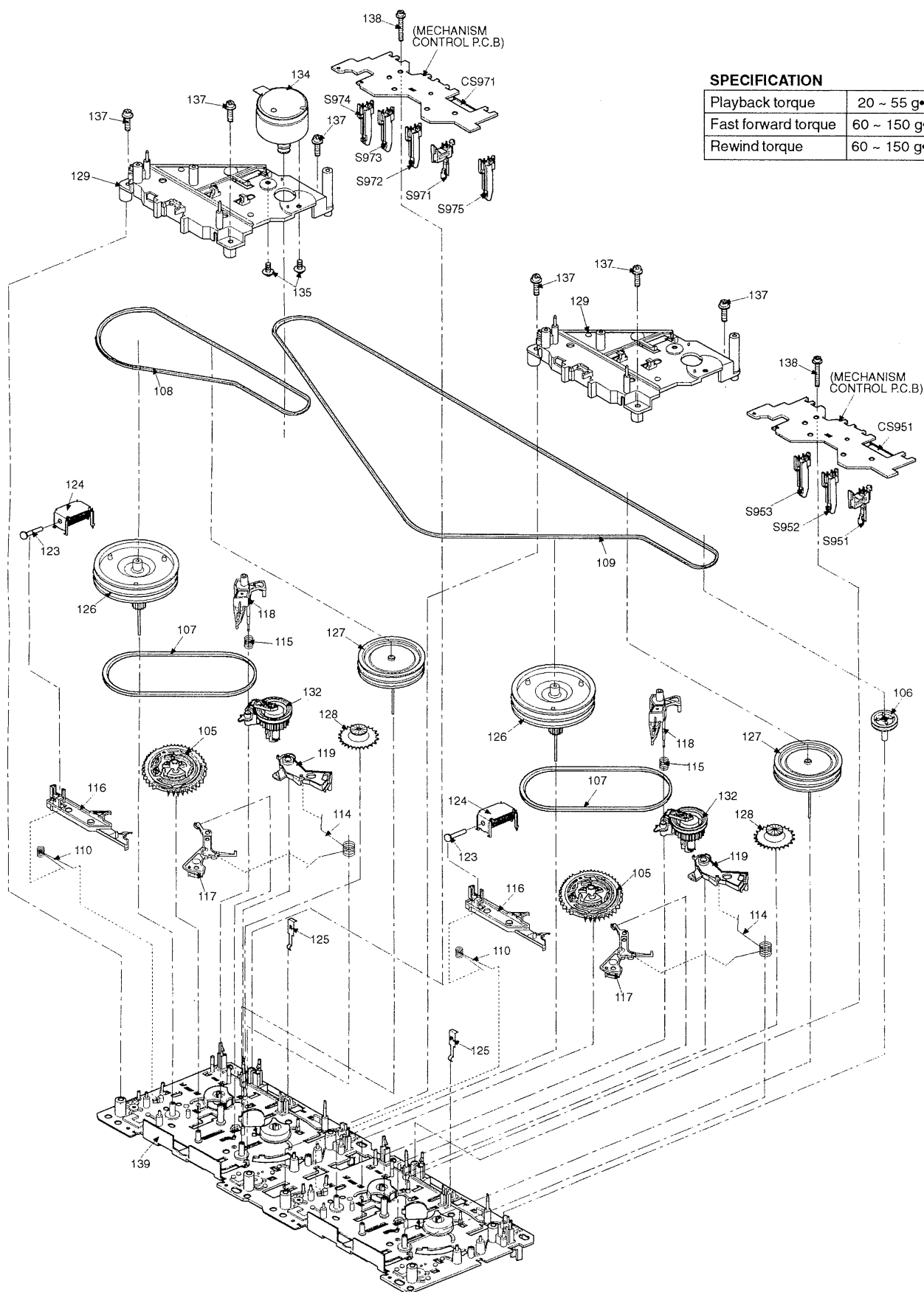
Mechanism Parts Location (RAA3406)

Note :Refer to Mechanism Parts List on page 38.

DECK 1 (PLAYBACK)

DECK 2 (REC/PLAYBACK)



**SPECIFICATION**

Playback torque	20 ~ 55 g•cm
Fast forward torque	60 ~ 150 g•cm
Rewind torque	60 ~ 150 g•cm



■ Mechanism Parts List

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

Ref No.	PartNo.	Part Name & Description	Remarks	Ref No.	PartNo.	Part Name & Description	Remarks	Ref No.	PartNo.	Part Name & Description	Remarks
		CASSETTE DECK		115	RMB0408	THRUST SPRING	[M]	130	RXL0124	PINCH ROLLER 'F' ASS	[M]
101	RED0037	R/P HEAD BLOCK UNIT	[M]	116	RML0370	TRIGGER LEVER	[M]	130-1	RMB0401	PINCH ARM SPRING 'F'	[M]
102	RED0038	P/B HEAD BLOCK UNIT	[M]	117	RML0371	FR LEVER	[M]	131	RXL0125	PINCH ROLLER 'R' ASS	[M]
103	RDG0300	REEL BASE GEAR	[M]	118	RML0372	WINDING LEVER	[M]	131-1	RMB0402	PINCH ARM SPRING 'R'	[M]
104	RDG0301	WINDING RELAY GEAR	[M]	119	RML0374	EJECT LEVER	[M]	132	RXL0126	WINDING ARM ASS'Y	[M]
105	RDK0026	MAIN GEAR	[M]	120	RMM0131	BRAKE ROD	[M]	133	RXQ0412	HEAD PANEL ASS'Y	[M]
106	RDR0029	RELAY PULLEY	[M]	121	RMM0133-1	EJECT ROD	[M]	133-1	RMB0405	FR ROD SPRING	[M]
107	RDV0033-1	WINDING BELT	[M]	122	RMQ0519	REEL HUB	[M]	133-2	RMM0132	FR ROD	[M]
108	RDV0034-1	CAPSTAN BELT 'A'	[M]	123	RMS0398-1	MOVING CORE	[M]	134	REM0070	CAP MOTOR ASS'Y	[M]
109	RDV0057	MAIN BELT B	[M]	124	RXQ0470	PLUNGER ASSY	[M]	135	RHD26022	MOTOR SCREW	[M]
110	RMB0312	TRIG. LEVER SPRING	[M]	125	RMC0061	PACK SPRING	[M]	136	XTW2+5L	HEAD BLK UNIT SCREW	[M]
111	RMB0400	REEL SPRING	[M]	126	RXF0049	FLYWHEEL 'F' ASS'Y	[M]	137	XTW26+10S	SUB-CHASSIS SCREW	[M]
112	RMB0403	HEAD PANEL SPRING	[M]	127	RXF0050	FLYWHEEL 'R' ASS'Y	[M]	138	XYC2+JF17	PCB EARTH SCREW	[M]
113	RMB0404	BRAKE ROD SPRING	[M]	128	RXG0040	FF RELAY GEAR ASS'Y	[M]	139	RFKJXED70-K	CHASSIS ASS'Y	[M]
114	RMB0406	FR LEVER SP	[M]	129	RMK0283A-J	SUB CHASSIS	[M]				

■ Loading Mechanism Parts List

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

Ref No.	PartNo.	Part Name & Description	Remarks	Ref No.	PartNo.	Part Name & Description	Remarks	Ref No.	PartNo.	Part Name & Description	Remarks
		TRAVERSE DECK		306	RMS0350	FIXED PIN B	[M]	317	RME0087	ASSISTANCE SPRING	[M]
301	RFKJXDT07-K	TRV CHASSIS ASS'Y	[M]	307	RMS0123-1	FIXED PIN A	[M]	318	RML0349	CONVERSION LEVER	[M]
301-1	RDG0142	INTERMEDIATE GEAR	[M]	308	RME0109	FLOATING SPRING A	[M]	319	RMM0059-1	SLIDE PLATE (2)	[M]
301-2	RDG0193	DRIVE GEAR (1)	[M]	309	RME0142	FLOATING SPRING B	[M]	320	RMR0334	FIXED PLATE	[M]
301-3	RDP0065	INTERMED. PULLEY	[M]	310	RMR0698-K	TRAVERSE CHASSIS	[M]	321	RHM245ZA	MAGNET	[M]
302	REM0019	LOADING M/R ASS'Y	[M]	311	XTV2+6G	SCREW	[M]	322	RXQ0380	MAG HOLDER ASS'Y	[M]
303	RMK0255	BELT COVER	[M]	312	RME0063	LOCK LEVER SPRING	[M]	323	XTN26+6G	SCREW	[M]
304	RGQ0144-K	DISC TRAY	[M]	313	RMM0079-1	SLIDE PLATE (1)	[M]	324	RMA0793	CLAMP PLATE	[M]
305	RAE0152Z	TRAVERSE UNIT	[M]	314	RML0178-1	LOCK LEVER	[M]	325	XYN2+F6FZ	SCREW (MOOTOR)	[M]
305-1	SHGD113-1	FLOATING RUBBER (A)	[M]	315	RFKNLPG440-K	DRIVE GEAR (2) ASS'Y	[M]	326	RMG0158	BELT	[M]
305-2	SNSD38	SCREW	[M]	316	RHD20009-1	SCREW	[M]	327	XTN26+6G	SCREW	[M]

■ Replacement Parts List

Notes:

- Important safety notice : Components identified by  mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.
- When replacing any of 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 and/or colour. (Refer to the cover page for area and colour.) Parts without these indications can be used for all areas.
- [M] indicates parts that are supplied by MESA.

RefNo.	Part No.	Part Name & Description	Remarks	RefNo.	Part No.	Part Name & Description	Remarks	RefNo.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS		44	RMN0332-1	LCD HOLDER	[M]			INTEGRATED CIRCUITS	
1	RAS8P10-B	SPEAKER	[M]	45	RMN0505	R/M. SENS. HOLDER	[M]	IC1	TA2008AN	IC, TUNER	[M]
2	RAS8PL01-B	WOOFER SPEAKER	[M]	50	RME0230	OPEN SPRING	[M]	IC2	LC72131D	IC, PLL	[M]
3	RDB0057	COBRA HOLDER (R)	[M]	51	RKF0568-K	REAR COVER	[M]	IC301	BA7755A	IC, ANALOG SW	[M]
4	REE0886	COBRA FFC WIRE	[M]	52	RFKJED707GCS	BOTTOM CAB ASS'Y	[M]GC	IC302	CXA1998AQ	IC, R/P	[M]
5	REE0758	CD FFC (23P)	[M]	52	RFKJED707GTS	BOTTOM CAB ASS'Y	[M]GT	IC602	BH3857AFV	IC, SOUND PRO.	[M]
6	REX0936	SP (R) TO MAIN WIRE	[M]	52-1	RJC91012	BATT.TERMINAL	[M]	IC603	S81350HG-Z	IC, 5V REGULATOR	[M] 
7	REX0937	SP (L) TO MAIN WIRE	[M]	53	RMQ0828	BATT. COVER (L)	[M]	IC605	AN7135	IC, POWER AMP	[M] 
8	REX0938	WOOFER TO MAIN W	[M]	54	RMQ0829	BATT. COVER (R)	[M]	IC606	AN7135	IC, POWER AMP	[M] 
9	RGK1071-K	CD TRAY LID	[M]	55	RDB0063-2	COBRA HOLDER (L)	[M]	IC701	AN8837SBE1	IC, HEAD AMP	[M]
10	RFKGED707GCS	FRONT PANEL ASS'Y	[M]GC	56	RGU1678A-K	LEFT BUTTON	[M]	IC702	MN662746RPK1	IC, LSI	[M]
10	RFKGED707GTS	FRONT PANEL ASS'Y	[M]GT	57	RGU1679A-K	RIGHT BUTTON	[M]	IC703	AN8780NSBE2	IC	[M]
10-1	RGPO685A-K	FRONT PANEL	[M]GT	58	RKF0566-S	COBRA REAR COVER	[M]	IC790	TA7291S	IC, LOADING M/R CD	[M]
10-1	RGPO685B-K	FRONT PANEL	[M]GC	59	RME0282	BALANCE SPRING	[M]	IC801	MN1873256CA1	IC, MICOM	[M]
10-2	RKW0556-K	FILTER PANEL	[M]	60	RMS0330A	POWER GEAR	[M]	IC802	S-80830ANY-Z	IC, RESET	[M]
11	RGB301WA-0	PANA BADGE	[M]	61	RMY0225A	HEAT SINK	[M]GC	IC951	0N2180RLC	IC, PHOTO INT	[M]
12	RFKKED707GCS	UPPER CAB ASS'Y	[M]	61	RMY0225-1	HEATSINK	[M]GT	IC971	0N2180RLC	IC, PHOTO INT	[M]
13	RGU1680A-S	FRONT BUTTON	[M]	62	RDG0183-L	DAMPER GEAR	[M]	IC1301	BA6418N	IC, LOADING MOTOR	[M]
14	RKF0567-H	COBRA FRONT CVR	[M]	63	RFKLED707GAS	CASS HOLDER ASS'Y(L)	[M]				
15	RKH0043-H	HANDLE	[M]	64	RFKLED707GBS	CASS HOLDER ASS'Y(R)	[M]			TRANSISTORS	
16	RKK0118-K	BATTERY COVER	[M]	65	RUS757ZAA	CASS HALF SPRING	[M]	Q1	RVTDTCT114EST	TRANSISTOR	[M]
17	RKQ0224-K	HANDLE FIXTURE	[M]	66	RMB0448-J	LOCK ROD SPRING	[M]	Q2	2SJ498CTA	TRANSISTOR	[M]
18	RKT0050-K	PORT (L)	[M]	67	RMM0163	CASSETTE LOCK ROD	[M]	Q3	2SJ498CTA	TRANSISTOR	[M]
19	RKT0051-K	PORT (R)	[M]	68	RKF0569-H	COBRA COVER (L)	[M]	Q4	2SC1740SRTA	TRANSISTOR	[M]
20	RMC0252	FRICTION SPRING	[M]	69	RKF0570-H	COBRA COVER (R)	[M]	Q101	2SJ498CTA	TRANSISTOR	[M]
21	RME0281	ROD ANT. TERMINAL	[M]	70	RKF0571-K	BOTTOM COVER (L)	[M]	Q103	2SJ498DTA	TRANSISTOR	[M]
22	RMG0249-K1	LEG CUSHION	[M]	71	RKF0572-K	BOTTOM COVER (R)	[M]	Q201	2SJ498CTA	TRANSISTOR	[M]
23	RMAX0037A	TRANS. BRACKET	[M]	72	XTV3+10GFZ	TAPPING SCREW	[M]	Q203	2SJ498DTA	TRANSISTOR	[M]
25	RJS1A5504	CABLE HOLDER	[M]	73	XTV3+8F	SCREW	[M]	Q302	2SC2389SSTA	TRANSISTOR	[M]
26	RMN0504	LED HOLDER	[M]	74	XTV3+12GFZ	TOP CAB SCREW	[M]	Q303	2SD1450RTA	TRANSISTOR	[M]
27	RMR0319	10P CABLE HOLDER	[M]	75	RMY0226	TRANS HEAT SINK	[M]GC	Q304	RVTDTCT144TST	TRANSISTOR	[M]
28	XEARR210C-Y	ROD ANTENNA	[M]	76	RMR0801-W	ANGLE	[M]	Q305	2SC1740SRTA	TRANSISTOR	[M]
29	XTBS26+10J	SCREW	[M]	77	RSC0387	SHIELD CASE	[M]	Q306	2SC1740SRTA	TRANSISTOR	[M]
30	XTN26+8GFZ	SCREW	[M]	78	XQN2+C3	SCREW	[M]	Q307	2SC1740SRTA	TRANSISTOR	[M]
31	XTV26+8G	SCREW	[M]	79	XQN2+C6	SCREW	[M]	Q308	2SC1740SRTA	TRANSISTOR	[M]
32	XTV3+12G	SP MOUNTING SCREW	[M]	80	XTV26+12F	SCREW	[M]	Q309	2SC1740SRTA	TRANSISTOR	[M]
34	XTV3+20G	CASING SCREW	[M]	81	RMK0261	CHASSIS	[M]	Q310	2SC1740SRTA	TRANSISTOR	[M]
35	XYN3+F12FY	ROD ANT SCREW	[M]	82	RMC0253	CLIP	[M]	Q311	2SC1740SRTA	TRANSISTOR	[M]
36	RMR1155-K	CD FIXTURE	[M]	83	RFKNXDT07-K	GEAR ASS'Y	[M]	Q312	2SD965RTA	TRANSISTOR	[M]
39	RMR0318	9P WIRE HOLDER	[M]	84	RDG0289	GEAR	[M]	Q313	RVTDTA143XST	TRANSISTOR	[M]
42	RGL0291-Q	LIGHTING PANEL	[M]	85	RFKPXD07-K	MOTOR ASS'Y	[M]	Q317	RVTDTA143XST	TRANSISTOR	[M]
43	RGPO488-3Q	LCD PANEL	[M]	86	RDG0250A	GEAR	[M]	Q322	2SC1740SRTA	TRANSISTOR	[M]

Ref No.	PartNo.	Part Name & Description	Remarks	Ref No.	PartNo.	Part Name & Description	Remarks	Ref No.	PartNo.	Part Name & Description	Remarks
Q325	2SC1740SRTA	TRANSISTOR	[M]	D628	RB441Q40T77	DIODE	[M]	S1008	EVQ21405R	SW, POWER	[M]
Q401	2SD1450RTA	TRANSISTOR	[M]	D630	RB441Q40T77	DIODE	[M]	S1009	EVQ21405R	SW, CD/TAPE STOP	[M]
Q403	2SC1740SLNST	TRANSISTOR	[M]	D631	RVD1SS133TA	DIODE	[M]	S1010	EVQ21405R	SW, AUX	[M]
Q405	2SJ498CTA	TRANSISTOR	[M]	D632	RVD1SS133TA	DIODE	[M]	S1011	EVQ21405R	SW, CD PLAY/PAUSE	[M]
Q501	2SD1450RTA	TRANSISTOR	[M]	D801	RVD1SS133TA	DIODE	[M]	S1012	EVQ21405R	SW, TUNER/BAND	[M]
Q503	2SC1740SLNST	TRANSISTOR	[M]	D901	1N5402BM21	DIODE	[M] ⚠	S1013	EVQ21405R	SW, TAPE PLAY	[M]
Q505	2SJ498CTA	TRANSISTOR	[M]	D902	1N5402BM21	DIODE	[M] ⚠	S1014	EVQ21405R	SW, FF	[M]
Q605	2SB1030RTA	TRANSISTOR	[M]	D903	1N5402BM21	DIODE	[M] ⚠	S1015	EVQ21405R	SW, REW	[M]
Q606	2SB1030RTA	TRANSISTOR	[M]	D904	1N5402BM21	DIODE	[M] ⚠	SW790	RSH1A005	SW, OPEN	[M]
Q607	2SB1566E	TRANSISTOR	[M] ⚠	D951	MA165TA	DIODE	[M]	SW791	RSH1A005	SW, CLOSE	[M]
Q608	2SA933SSTA	TRANSISTOR	[M] ⚠	D971	MA165TA	DIODE	[M]	SW901	RJJ1SE01-1H	SW, AC INLET(JK901)	[M]
Q609	2SC1740SRTA	TRANSISTOR	[M] ⚠	D1001	MTZJ8R2BTA	DIODE	[M]	SW902	RSR2A005S-H	SW, VOLT. SELECTOR	[M]GC ⚠
Q610	2SA952LTA	TRANSISTOR	[M] ⚠	D1002	LN142WP38	DIODE	[M]GC				
Q611	RVTDTTC144EST	TRANSISTOR	[M]GC	D1002	LN242RPX-TA6	DIODE	[M]GT			CONNECTORS	
Q612	RVTDTA143XST	TRANSISTOR	[M]					CN701	RJS2A6016	16P FFC CONNECTOR	[M]
Q613	2SC2001KTA	TRANSISTOR	[M] ⚠			VARIABLE CAPACITORS		CN702	RJS1A6723-1Q	23P FFC CONNECTOR	[M]
Q614	2SB1030RTA	TRANSISTOR	[M]	CT1	ECRLA010A53R	TRIMMER CAPACITOR	[M]	CP601	RJT029W002-1	SP CONNECTOR	[M]
Q615	RVTDTTC114YST	TRANSISTOR	[M]					CP790	RJP6G17ZA	CONNECTOR (6P)	[M]
Q618	2SC1740SRTA	TRANSISTOR	[M] ⚠			SWITCHES		CP901	RJT029W006-1	CONNECTOR	[M]
Q620	RVTDTTC144EST	TRANSISTOR	[M]	S701	RSH1A043-U	SW, REST	[M]	CP902	RJT029W002-1	SP CONNECTOR	[M]
Q621	2SB1240RTV2	TRANSISTOR	[M]	S801	EVQ21405R	SW, TIMER CHK/AD	[M]	CP951	RJT071H09A	CONNECTOR	[M]
Q624	2SC1740SRTA	TRANSISTOR	[M]	S802	EVQ21405R	SW, SET/MEMORY	[M]	CP971	RJT071H09A	CONNECTOR	[M]
Q628	RVTDTA143XST	TRANSISTOR	[M]	S803	EVQ21405R	SW, TIMER FADER	[M]	CP1001	RJT029W002-1	SP CONNECTOR	[M]
Q630	2SD1450RTA	TRANSISTOR	[M]	S804	EVQ21405R	SW, SLEEP	[M]	CP1301	RJP4G17ZA	CONNECTOR (4P)	[M]
Q634	2SC1740SRTA	TRANSISTOR	[M]	S805	EVQ21405R	SW, DOWN/-	[M]	CS301	RJS1A6805-J	CONNECTOR	[M]
Q635	2SB1030RTA	TRANSISTOR	[M]	S806	EVQ21405R	SW, UP/+	[M]	CS302	RJS1A6805-J	CONNECTOR	[M]
Q636	2SB1030RTA	TRANSISTOR	[M]	S807	EVQ21405R	SW, TIMER REC/PLAY	[M]	CS702	RJS1A9423	FFC CONNECTOR	[M]
Q637	RVTDTTC144EST	TRANSISTOR	[M]	S808	EVQ21405R	SW, CD REC MODE	[M]	CS801	RJS1A9436	CONNECTOR	[M]
Q701	2SA1037AKSTX	TRANSISTOR	[M]	S809	EVQ21405R	SW, REC/REC PAUSE	[M]	CS951	RJU071H09M1	CONNECTOR	[M]
Q702	DTC114YKA146	TRANSISTOR	[M]	S810	EVQ21405R	SW, TAPE EDIT	[M]	CS971	RJU071H09M1	CONNECTOR	[M]
Q801	2SC1740SRTA	TRANSISTOR	[M]	S811	EVQ21405R	SW, DECK 1/2	[M]	CS1001	RJS1A5209	TO MAIN MOLEX	[M]
Q802	2SC1740SRTA	TRANSISTOR	[M]	S812	EVQ21405R	SW, S. WOOFER	[M]	CS8001	RJS1A9436	CONNECTOR	[M]
Q803	2SD965RTA	TRANSISTOR	[M]	S813	EVQ21405R	SW, S. VIRTUALIZER	[M]				
				S951	RSH1A018-1U	SW, MODE DECK (1)	[M]			COILS & TRANSFORMERS	
		DIODES		S952	RSH1A019-2U	SW, LEAF	[M]	L2	RLQY30S1W	FM COIL	[M]
D1	SVC346T-AA	DIODE	[M]	S953	RSH1A019-2U	SW, LEAF	[M]	L3	RLV2C038-0	F. ANT	[M]
D2	KV1360NTM	DIODE	[M]	S971	RSH1A018-3U	SW, LEAF	[M]	L4	RLD4Y45W	OSC COIL	[M]GC
D3	KV1360NTM	DIODE	[M]	S972	RSH1A019-2U	SW, LEAF	[M]	L4	RLD4Y55W	FM OSC COIL	[M]GT
D301	RVD1SS133TA	DIODE	[M]	S973	RSH1A019-2U	SW, LEAF	[M]	L6	RL02B130-T	COIL	[M]
D602	MTZJ9R1ATA	DIODE	[M] ⚠	S974	RSH1A019-2U	SW, LEAF	[M]	L7	RLQZP101KT-Y	AXIAL COIL	[M]
D603	1SR139400TA	DIODE	[M]	S975	RSH1A019-2U	SW, LEAF	[M]	L8	RLQY30S1W	FM COIL	[M]
D604	RVD1SS133TA	DIODE	[M] ⚠	S1001	EVQ21405R	SW, CD OPEN/CLOSE	[M]	L301	RL08B003-K	BIAS OSC COIL	[M]
D605	RVD1SS133TA	DIODE	[M]	S1002	EVQ21405R	SW, 2 EJECT	[M]	L302	RLQA470JT1-Y	COIL	[M]
D606	RVD1SS133TA	DIODE	[M]	S1003	EVQ21405R	SW, COBRA OPEN	[M]	L401	RL500050T-Y	RF CHOKE COIL	[M]GT
D608	RVD1SS133TA	DIODE	[M]	S1004	EVQ21405R	SW, COBRA CLOSE	[M]	L501	RL500050T-Y	RF CHOKE COIL	[M]GT
D616	RVD1SS133TA	DIODE	[M] ⚠	S1005	EVQ21405R	SW, VOL (-)	[M]	L602	RL500050T-Y	RF CHOKE COIL	[M]GT
D617	MTZJ12BTA	DIODE	[M] ⚠	S1006	EVQ21405R	SW, VOL (+)	[M]	L801	RLQA470JT1-Y	COIL	[M]
D623	1SR139400TA	DIODE	[M]	S1007	EVQ21405R	SW, 1 EJECT	[M]	L1301	RLQB470KTA-Y	COIL	[M]

RefNo.	PartNo.	Part Name & Description	Remarks	RefNo.	PartNo.	Part Name & Description	Remarks	RefNo.	PartNo.	Part Name & Description	Remarks
T1	RLI2B013-T	AM IFT	[M]	X701	RSXZ16M9M01T	CERAMIC OSC	[M]	JK604	RJJ39T01	JK, MIC	[M]
T901	RTP1L1E017-X	POWER TRANS.	[M]GC	X801	RSXZ6M00D01T	6MHZ RESONATOR	[M]	JK901	RJJ1SE01-1H	JK, AC INLET	[M]
T901	RTP1U1G006-X	POWER TRANS.	[M]GT	X802	RSXD32K0C01	CRYSTAL	[M]				
		COMPONENT COMBINATION				FUSES				DISPLAY	
Z301	EXBF7L355SYV	RADA RESISTOR	[M]	F901	XBA1C30NS5L	FUSE	[M]GT	LCD801	RSL5210-L	LCD	[M]
Z801	XAMR134	LAMP	[M]	F901	XBA2C25TB0L	FUSE	[M]GC				
Z971	EXBF7L355SYV	RADA RESISTOR	[M]							WIRES	
Z1001	RCDRPM6937	REMOTE SENSOR	[M]			FUSE HOLDERS		W901	RWJ8303410KK	PW TO BATT WIRE	[M]
				FH901	RJR0169T	FUSE HOLDER	[M]	W902	RWJ8302175KK	BATT TO BATT WIRE	[M]
		CERAMIC FILTERS		FH902	RJR0169T	FUSE HOLDER	[M]	W981	RWJ0102050KR	MECHA MOTOR W	[M]
CF1	RLFFETNL01DL	FM CF	[M]GT					W1001	RWJ8203120KK	LED MAIN WIRE	[M]
CF1	RLFFETNL02AL	FM CF	[M]GC			FUSE PROTECTORS		CW790	REX0842	MAIN-CD V.	[M]
CF3	RLFDFT17DL	FM DISCRIMINATOR	[M]GT	FP601	RSFMB20KT-L	PROTECTOR	[M]	CW1301	REX0841	COBRA-M/R MAIN	[M]
CF3	RLFDFT20AL	FM DISCRIMINATOR	[M]GC	FP602	RSFMB15KT-L	FUSE PROTECTOR	[M]	PW601	RWJ8210150RR	MAIN-POWER WIRE	[M]
				FP901	RSFMB40KT-L	FUSE PROTECTOR	[M]	PW902	REX0935	MAIN-POWER WIRE	[M]
		OSCILLATORS						PW1001	RWJ8209150XX	MAIN PANEL WIRE	[M]
X2	RSXZ456KM01	19KHZ OSC	[M]			JACKS		PW9012	RJS1A5502	CABLE HOLDER	[M]
X3	RSXD7M20C01	CRYSTAL 7.2 MHZ	[M]	JK603	RJJ33T01	JK, TV4-CH	[M]				

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 in the Remarks columns specify the areas. (Refer to the cover page for area.)
- Parts without these indication can be used for all areas.
- [M] in Remarks column indicates parts that are supplied by MESA.
- Capacitor values are in microfarad (mF) 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)

RefNo.	PartNo.	Values & Remarks	RefNo.	PartNo.	Values & Remarks	RefNo.	PartNo.	Values & Remarks	RefNo.	PartNo.	Values & Remarks
		RESISTORS									
			R21	ERDS2TJ103T	10K 1/4W [M]	R105	ERDS2TJ182T	1.8K 1/4W [M]	R306	ERDS2TJ752T	7.5K 1/4W [M]
			R22	ERDS2TJ102T	1K 1/4W [M]	R106	ERDS2TJ332T	3.3K 1/4W [M]	R307	ERDS2TJ822T	8.2K 1/4W [M]
R2	ERDS2TJ103T	10K 1/4W [M]	R23	ERDS2TJ223T	22K 1/4W [M]	R109	ERDS2TJ223T	22K 1/4W [M]	R308	ERD2FCVJ4R7T	4.7 1/4W [M]
R3	ERDS2TJ332T	3.3K 1/4W [M]	R24	ERDS2TJ103T	10K 1/4W [M]	R110	ERDS2TJ222T	2.2K 1/4W [M]	R309	ERDS2TJ472T	4.7K 1/4W [M]
R4	ERDS2TJ472T	4.7K 1/4W [M]	R25	ERDS2TJ223T	22K 1/4W [M]	R111	ERDS2TJ152T	1.5K 1/4W [M]	R310	ERDS2TJ472T	4.7K 1/4W [M]
R5	ERDS2TJ221T	220 1/4W [M]	R26	ERDS2TJ103T	10K 1/4W [M]	R201	ERDS2TJ101T	100 1/4W [M]	R311	ERDS2TJ472T	4.7K 1/4W [M]
R6	ERDS2TJ104T	100K 1/4W [M]	R27	ERDS2TJ332T	3.3K 1/4W [M]	R202	ERDS2TJ822T	8.2K 1/4W [M]	R312	ERDS2TJ334T	330K 1/4W [M]
R8	ERDS2TJ104T	100K 1/4W [M]	R28	ERDS2TJ223T	22K 1/4W [M]	R203	ERDS2TJ562T	5.6K 1/4W [M]	R313	ERDS2TJ123T	12K 1/4W [M]
R9	ERDS2TJ104T	100K 1/4W [M]	R29	ERDS2TJ103T	10K 1/4W [M]	R204	ERDS2TJ104T	100K 1/4W [M]	R314	ERDS2TJ222T	2.2K 1/4W [M]
R11	ERDS2TJ223T	22K 1/4W [M]	R30	ERDS2TJ472T	4.7K 1/4W [M]	R205	ERDS2TJ182T	1.8K 1/4W [M]	R315	ERDS2TJ102T	1K 1/4W [M]
R12	ERDS2TJ103T	10K 1/4W [M]	R31	ERDS2TJ222T	2.2K 1/4W [M]	R206	ERDS2TJ332T	3.3K 1/4W [M]	R316	ERDS2TJ470T	47 1/4W [M]
R13	ERDS2TJ104T	100K 1/4W [M]	R32	ERDS2TJ331T	330 1/4W [M]GC	R209	ERDS2TJ223T	22K 1/4W [M]	R317	ERDS2TJ220T	22 1/4W [M]
R14	ERDS2TJ104T	100K 1/4W [M]	R32	ERDS2TJ471T	470 1/4W [M]GT	R210	ERDS2TJ222T	2.2K 1/4W [M]	R318	ERDS2TJ335T	3.3M 1/4W [M]
R16	ERDS2TJ104T	100K 1/4W [M]	R55	ERDS2TJ333T	33K 1/4W [M]	R211	ERDS2TJ152T	1.5K 1/4W [M]	R319	ERDS2TJ104T	100K 1/4W [M]
R17	ERDS2TJ222T	2.2K 1/4W [M]	R101	ERDS2TJ101T	100 1/4W [M]	R301	ERDS2TJ103T	10K 1/4W [M]	R320	ERDS2TJ104T	100K 1/4W [M]
R18	ERDS2TJ104T	100K 1/4W [M]	R102	ERDS2TJ822T	8.2K 1/4W [M]	R302	ERDS2TJ152T	1.5K 1/4W [M]	R321	ERDS2TJ104T	100K 1/4W [M]
R19	ERDS2TJ104T	100K 1/4W [M]	R103	ERDS2TJ562T	5.6K 1/4W [M]	R303	ERDS2TJ152T	1.5K 1/4W [M]	R322	ERDS2TJ104T	100K 1/4W [M]
R20	ERDS2TJ223T	22K 1/4W [M]	R104	ERDS2TJ104T	100K 1/4W [M]	R305	ERDS2TJ103T	10K 1/4W [M]	R323	ERDS2TJ273T	27K 1/4W [M]

RefNo.	PartNo.	Values&Remarks	RefNo.	PartNo.	Values&Remarks	RefNo.	PartNo.	Values&Remarks	RefNo.	PartNo.	Values&Remarks
R324	ERDS2TJ273T	27K 1/4W [M]	R508	ERDS2TJ272T	2.7K 1/4W [M]GC	R638	ERDS2TJ333T	33K 1/4W [M]	R718	ERJ6GEYJ102A	1K 1/10W [M]
R325	ERDS2TJ471T	470 1/4W [M]	R508	ERDS2TJ332T	3.3K 1/4W [M]	R639	ERDS2TJ151T	150 1/4W [M]	R719	ERJ6GEYJ102A	1K 1/10W [M]
R326	ERDS2TJ103T	10K 1/4W [M]	R510	ERDS2TJ682T	6.8K 1/4W [M]	R640	ERDS2TJ472T	4.7K1/4W [M]	R720	ERJ6GEYJ102A	1K 1/10W [M]
R327	ERDS2TJ472T	4.7K 1/4W [M]	R515	ERDS2TJ103T	10K 1/4W [M]	R641	ERDS2TJ333T	33K 1/4W [M]	R721	ERJ6GEYJ101A	100 1/10W [M]
R328	ERDS2TJ103T	10K 1/4W [M]	R517	ERDS2TJ273T	27K 1/4W [M]	R645	ERDS2TJ471T	470 1/4W [M]	R723	ERJ6GEYJ272A	2.7K1/10W [M]
R329	ERDS2TJ681T	680 1/4W [M]	R518	ERDS2TJ683T	68K 1/4W [M]	R646	ERDS2TJ333T	33K 1/4W [M]	R724	ERJ6GEYJ333A	33K 1/10W [M]
R330	ERDS2TJ563T	56K 1/4W [M]	R519	ERDS2TJ391T	390 1/4W [M]	R647	ERDS2TJ472T	4.7K1/4W [M]	R725	ERJ6GEYJ122A	1.2K1/10W [M]
R331	ERDS2TJ104T	100K 1/4W [M]	R521	ERDS2TJ223T	22K 1/4W [M]	R648	ERDS2TJ103T	10K 1/4W [M]	R727	ERJ6GEYJ682A	6.8K1/10W [M]
R332	ERDS2TJ104T	100K 1/4W [M]	R522	ERDS2TJ682T	6.8K 1/4W [M]	R649	ERDS2TJ561T	560 1/4W [M]	R728	ERJ6GEYJ682A	6.8K1/10W [M]
R333	ERDS2TJ103T	10K 1/4W [M]	R525	ERDS2TJ472T	4.7K 1/4W [M]	R650	ERDS2TJ103T	10K 1/4W [M]	R729	ERJ6GEYJ562A	5.6K1/10W [M]
R334	ERDS2TJ223T	22K 1/4W [M]	R528	ERDS2TJ1R0T	1 1/4W [M]	R652	ERDS2TJ472T	4.7K1/4W [M]	R731	ERJ6GEYJ123A	12K 1/10W [M]
R335	ERDS2TJ470T	47 1/4W [M]	R529	ERDS2TJ1R2T	1.2 1/4W [M]	R654	ERDS2TJ103T	10K 1/4W [M]	R734	ERJ6GEYJ101A	100 1/10W [M]
R336	ERDS2TJ563T	56K 1/4W [M]	R530	ERDS2TJ271T	270 1/4W [M]	R655	ERDS2TJ103T	10K 1/4W [M]	R735	ERJ6GEYJ101A	100 1/10W [M]
R337	ERDS2TJ104T	100K 1/4W [M]	R531	ERDS2TJ683T	68K 1/4W [M]	R656	ERDS2TJ223T	22K 1/4W [M]	R736	ERJ6GEYJ101A	100 1/10W [M]
R349	ERDS2TJ224T	220K 1/4W [M]	R532	ERDS2TJ103T	10K 1/4W [M]GC	R657	ERDS2TJ223T	22K 1/4W [M]	R738	ERJ6GEYJ223A	22K 1/10W [M]
R350	ERDS2TJ334T	330K 1/4W [M]	R532	ERDS2TJ472T	4.7K 1/4W [M]	R658	ERDS2TJ101T	100 1/4W [M]	R741	ERJ6GEYJ562A	5.6K1/10W [M]
R355	ERDS2TJ153T	15K 1/4W [M]	R602	ERDS2TJ103T	10K 1/4W [M]	R659	ERDS2TJ102T	1K 1/4W [M]	R742	ERJ6GEYJ562A	5.6K1/10W [M]
R366	ERDS2TJ183T	18K 1/4W [M]	R603	ERDS2TJ103T	10K 1/4W [M]	R660	ERDS2TJ103T	10K 1/4W [M]	R743	ERJ6GEYJ562A	5.6K1/10W [M]
R368	ERDS2TJ220T	22 1/4W [M]	R604	ERDS2TJ471T	470 1/4W [M]	R661	ERDS2TJ472T	4.7K1/4W [M]	R744	ERJ6GEYJ104A	100K1/10W [M]
R369	ERDS2TJ334T	330K 1/4W [M]	R607	ERDS2TJ104T	100K 1/4W [M]	R662	ERDS2TJ105T	1M 1/4W [M]	R745	ERJ6GEYJ155A	1.5M1/10W [M]
R370	ERDS2TJ103T	10K 1/4W [M]	R608	ERDS2TJ273T	27K 1/4W [M]	R663	ERDS2TJ334T	330K1/4W [M]	R748	ERJ6GEYJ272A	2.7K1/10W [M]
R371	ERDS2TJ102T	1K 1/4W [M]	R609	ERDS2TJ332T	3.3K 1/4W [M]	R665	ERDS2TJ104T	100K1/4W [M]	R749	ERJ6GEYJ682A	6.8K1/10W [M]
R372	ERDS2TJ102T	1K 1/4W [M]	R610	ERDS2TJ273T	27K 1/4W [M]	R667	ERDS2TJ1R5T	1.5 1/4W [M]	R752	ERJ8GEYJ220A	22 1/8W [M]
R373	ERDS2TJ102T	1K 1/4W [M]	R611	ERDS2TJ332T	3.3K 1/4W [M]	R669	ERDS2TJ102T	1K 1/4W [M]	R770	ERJ6GEYJ224A	220K1/10W [M]
R401	ERDS2TJ223T	22K 1/4W [M]	R612	ERDS2TJ1R5T	1.5 1/4W [M]	R670	ERDS2TJ102T	1K 1/4W [M]	R801	ERDS2TJ332T	3.3K1/4W [M]
R402	ERDS2TJ272T	2.7K 1/4W [M]	R613	ERDS2TJ1R5T	1.5 1/4W [M]	R671	ERDS2TJ102T	1K 1/4W [M]	R802	ERDS2TJ332T	3.3K1/4W [M]
R404	ERDS2TJ472T	4.7K 1/4W [M]	R615	ERDS2TJ331T	330 1/4W [M]	R672	ERDS2TJ102T	1K 1/4W [M]	R803	ERDS2TJ223T	22K 1/4W [M]
R405	ERDS2TJ122T	1.2K 1/4W [M]	R616	ERD2FCVJ4R7	4.7 1/4W [M]	R679	ERDS2TJ2R2T	2.2 1/4W [M]	R804	ERDS2TJ823T	82K 1/4W [M]
R408	ERDS2TJ272T	2.7K 1/4W [M]GC	R617	ERDS2TJ103T	10K 1/4W [M]	R681	ERDS2TJ2R2T	2.2 1/4W [M]	R805	ERDS2TJ124T	120K1/4W [M]
R408	ERDS2TJ332T	3.3K 1/4W [M]	R619	ERDS2TJ151T	150 1/4W [M]	R682	ERDS2TJ561T	560 1/4W [M]	R806	ERDS2TJ104T	100K1/4W [M]
R410	ERDS2TJ682T	6.8K 1/4W [M]	R620	ERDS2TJ151T	150 1/4W [M]	R683	ERDS2TJ122T	1.2K1/4W [M]	R807	ERDS2TJ105T	1M 1/4W [M]
R415	ERDS2TJ103T	10K 1/4W [M]	R621	ERDS2TJ471T	470 1/4W [M]	R685	ERDS2TJ101T	100 1/4W [M]	R809	ERDS2TJ334T	330K1/4W [M]
R417	ERDS2TJ273T	27K 1/4W [M]	R622	ERDS2TJ151T	150 1/4W [M]	R687	ERDS2TJ123T	12K 1/4W [M]	R812	ERDS2TJ472T	4.7K1/4W [M]
R418	ERDS2TJ683T	68K 1/4W [M]	R623	ERDS2TJ821T	820 1/4W [M]GC	R691	ERDS2TJ101T	100 1/4W [M]	R813	ERDS2TJ472T	4.7K1/4W [M]
R419	ERDS2TJ391T	390 1/4W [M]	R624	ERDS2TJ331T	330 1/4W [M]	R696	ERDS2TJ101T	100 1/4W [M]	R814	ERDS2TJ472T	4.7K1/4W [M]
R421	ERDS2TJ223T	22K 1/4W [M]	R625	ERDS2TJ471T	470 1/4W [M]	R701	ERJ6GEYJ4R7A	4.7 1/10W [M]	R815	ERDS2TJ472T	4.7K1/4W [M]
R422	ERDS2TJ682T	6.8K 1/4W [M]	R626	ERDS2TJ681T	680 1/4W [M]	R702	ERJ6GEYJ822A	8.2K1/10W [M]	R816	ERDS2TJ472T	4.7K1/4W [M]
R425	ERDS2TJ472T	4.7K 1/4W [M]	R627	ERDS2TJ474T	470K 1/4W [M]	R704	ERJ6GEYJ102A	1K 1/10W [M]	R817	ERDS2TJ472T	4.7K1/4W [M]
R428	ERDS2TJ1R0T	1 1/4W [M]	R628	ERDS2TJ103T	10K 1/4W [M]	R705	ERJ6GEYJ124A	120K1/10W [M]	R818	ERDS2TJ472T	4.7K1/4W [M]
R429	ERDS2TJ1R2T	1.2 1/4W [M]	R629	ERDS2TJ271T	270 1/4W [M]	R706	ERJ6GEYJ102A	1K 1/10W [M]	R819	ERDS2TJ124T	120K1/4W [M]
R430	ERDS2TJ271T	270 1/4W [M]	R630	ERDS2TJ393T	39K 1/4W [M]	R707	ERJ6GEYJ474A	470K1/10W [M]	R820	ERDS2TJ472T	4.7K1/4W [M]
R431	ERDS2TJ683T	68K 1/4W [M]	R631	ERDS2TJ474T	470K 1/4W [M]	R708	ERJ6GEYJ154A	150K1/10W [M]	R821	ERDS2TJ223T	22K 1/4W [M]
R432	ERDS2TJ103T	10K 1/4W [M]GC	R632	ERDS2TJ681T	680 1/4W [M]	R709	ERJ6GEYJ473A	47K 1/10W [M]	R822	ERDS2TJ562T	5.6K1/4W [M]
R432	ERDS2TJ472T	4.7K 1/4W [M]	R633	ERDS2TJ330T	33 1/4W [M]	R710	ERJ6GEYJ103A	10K 1/10W [M]	R823	ERDS2TJ472T	4.7K1/4W [M]
R501	ERDS2TJ223T	22K 1/4W [M]	R634	ERDS2TJ330T	33 1/4W [M]	R711	ERJ6GEYJ154A	150K1/10W [M]	R824	ERDS2TJ472T	4.7K1/4W [M]
R502	ERDS2TJ272T	2.7K 1/4W [M]	R635	ERDS2TJ222T	2.2K 1/4W [M]	R712	ERJ6GEYJ221A	220 1/10W [M]	R825	ERDS2TJ472T	4.7K1/4W [M]
R504	ERDS2TJ472T	4.7K 1/4W [M]	R636	ERDS2TJ222T	2.2K 1/4W [M]	R715	ERJ6GEYJ122A	1.2K1/10W [M]	R826	ERDS2TJ474T	470K1/4W [M]
R505	ERDS2TJ122T	1.2K 1/4W [M]	R637	ERDS2TJ472T	4.7K 1/4W [M]	R717	ERJ6GEYJ102A	1K 1/10W [M]	R827	ERDS2TJ104T	100K1/4W [M]

RefNo.	PartNo.	Values&Remarks	RefNo.	PartNo.	Values&Remarks	RefNo.	PartNo.	Values&Remarks	RefNo.	PartNo.	Values&Remarks
R828	ERDS2TJ102T	1K 1/4W [M]	R1112	ERDS2TJ103T	10K 1/4W [M]	C44	ECEA1HKA2R2B	2.2 50V [M]	C319	ECEA1HKA0R1B	0.1 50V [M]
R831	ERDS2TJ102T	1K 1/4W [M]	R1113	ERDS2TJ102T	1K 1/4W [M]	C45	ECBT1H102KB5	1000P50V[M]	C320	ECEA1AKA470B	47 10V [M]
R832	ERDS2TJ102T	1K 1/4W [M]	R1114	ERDS2TJ102T	1K 1/4W [M]	C47	ECFR1C223MR	0.02216V [M]	C321	ECEA1AKA101B	100 10V [M]
R833	ERDS2TJ102T	1K 1/4W [M]	R1115	ERDS2TJ102T	1K 1/4W [M]	C48	ECEA1HKA010B	1 50V[M]	C322	ECEA1CKA100B	10 16V [M]
R834	ERDS2TJ102T	1K 1/4W [M]	R1118	ERDS2TJ103T	10K 1/4W [M]	C49	ECBT1H102KB5	1000P50V [M]	C323	ECEA0JKA470B	47 6.3V[M]
R835	ERDS2TJ103T	10K 1/4W [M]	R1119	ERDS2TJ472T	4.7K1/4W [M]	C50	ECBT1H102KB5	1000P50V [M]	C324	ECEA1HKA0R1B	0.1 50V [M]
R837	ERDS2TJ333T	33K 1/4W [M]	R1120	ERDS2TJ102T	1K 1/4W [M]	C51	ECFR1C333MR	0.03316V [M]	C327	ECBT1H221KB5	220P50V [M]
R838	ERDS2TJ102T	1K 1/4W [M]GC				C53	ECBT1H102KB5	1000P50V [M]	C329	ECEA1AKA470B	47 10V [M]
R841	ERDS2TJ472T	4.7K 1/4W [M]			CAPACITORS	C54	ECBT1H102KB5	1000P50V [M]	C330	ECEA1AKA221Q	220 10V [M]
R847	ERDS2TJ122T	1.2K 1/4W [M]	C1	ECBT1H470J5	47P 50V [M]	C55	ECEA1CKA100B	10 16V [M]	C334	ECEA1CKA100B	10 16V [M]
R848	ERDS2TG103T	10K 1/4W [M]	C2	ECBT1H100JC5	10P 50V [M]	C61	ECBT1H102KB5	1000P50V[M]GC	C338	ECFR1C223MR	0.02216V [M]
R856	ERDS2TG103T	10K 1/4W [M]	C3	ECFR1C223MR	0.02216V [M]	C101	ECBT1H471KB5	470P 50V [M]	C401	ECBT1H221KB5	220P50V [M]
R857	ERDS2TG103T	10K 1/4W [M]	C4	ECBT1H102KB5	1000P50V [M]	C102	ECBT1H471KB5	470P 50V [M]	C402	ECEA1CKA100B	10 16V [M]
R859	ERDS2TJ102T	1K 1/4W [M]	C5	ECBT1H5R6KC5	5.6P 50V [M]GC	C103	ECEA0JKA470B	47 6.3V [M]	C403	ECEA1CKA100B	10 16V [M]
R860	ERDS2TJ102T	1K 1/4W [M]	C5	ECBT1H8R2KC5	8.2P 50V [M]GT	C104	ECFR1C183KR	0.01816V [M]	C404	ECEA1HKAR22B	0.22 50V [M]
R861	ERDS2TJ122T	1.2K 1/4W [M]	C6	ECBT1H102KB5	1000P 50V[M]	C105	ECEA1EKA4R7B	4.7 25V [M]	C405	ECFR1C333MR	0.03316V [M]
R862	ERDS2TJ182T	1.8K 1/4W [M]	C7	ECBT1H120JC5	12P 50V [M]	C106	ECBT1H471KB5	470P 50V [M]	C406	ECBT0J223MS5	0.0226.3V[M]
R863	ERDS2TJ222T	2.2K 1/4W [M]	C8	ECBT1H102KB5	1000P50V [M]	C107	ECEA1HKA010B	1 50V [M]	C408	ECBT1H101KB5	100P 50V [M]
R864	ERDS2TJ272T	2.7K 1/4W [M]	C9	ECBT1H102KB5	1000P50V [M]	C108	ECEA1HKA010B	1 50V [M]	C412	ECBT1H221KB5	220P 50V [M]
R865	ERDS2TJ392T	3.9K 1/4W [M]	C10	ECBT1H100JC5	10P 50V [M]GC	C109	ECEA1EKA4R7B	4.7 25V [M]	C416	ECBT1H470J5	47P 50V [M]
R866	ERDS2TJ682T	6.8K 1/4W [M]	C10	ECBT1H3R3KC5	3.3P 50V [M]GT	C110	ECEA1EKA4R7B	4.7 25V [M]	C419	ECFR1C683MR	0.06816V [M]
R867	ERDS2TJ103T	10K 1/4W [M]	C12	ECBT1H331KB5	330P 50V [M]	C111	ECBT1H331KB5	330P 50V [M]	C421	ECBT0J153MS5	0.0156.3V[M]
R868	ERDS2TJ183T	18K 1/4W [M]	C13	ECEA1CKA100B	10 16V [M]	C201	ECBT1H471KB5	470P 50V [M]	C422	ECBT0J153MS5	0.0156.3V[M]
R952	ERDS2TJ821T	820 1/4W [M]	C14	ECBT1H102KB5	1000P50V [M]	C202	ECBT1H471KB5	470P 50V [M]	C428	ECBT1H471KB5	470P 50V [M]
R953	ERDS2TJ393T	39K 1/4W [M]	C15	ECFR1C683MR	0.06816V [M]	C203	ECEA0JKA470B	47 6.3V [M]	C430	ECA1AM101B	100 50V [M]
R972	ERDS2TJ821T	820 1/4W [M]	C16	ECFR1C823MR	0.08216V [M]	C204	ECFR1C183KR	0.01816V [M]	C431	ECBT1H471KB5	470P 50V [M]
R973	ERDS2TJ393T	39K 1/4W [M]	C17	ECFR1C823MR	0.08216V [M]	C205	ECEA1EKA4R7B	4.7 25V [M]	C432	ECA1AM101B	100 10V [M]
R1001	ERDS2TJ102T	1K 1/4W [M]	C18	ECFR1C333MR	0.03316V [M]	C206	ECBT1H471KB5	470P 50V [M]	C433	ECA1AM471B	470 10V [M]
R1002	ERDS2TJ102T	1K 1/4W [M]	C19	ECFR1C333MR	0.03316V [M]	C207	ECEA1HKA010B	1 50V [M]	C434	ECQV1H224JZ3	0.22 50V [M]
R1003	ERDS2TJ122T	1.2K 1/4W [M]	C20	ECEA1HKA010B	1 50V [M]	C208	ECEA1HKA010B	1 50V [M]	C435	ECEA1HKA010B	1 50V [M]
R1004	ERDS2TJ182T	1.8K 1/4W [M]	C21	ECEA1HKA010B	1 50V [M]	C209	ECEA1EKA4R7B	4.7 25V [M]	C436	ECBT1H102KB5	1000P50V[M]
R1005	ERDS2TJ222T	2.2K 1/4W [M]	C22	ECEA1EKA4R7B	4.7 25V [M]	C210	ECEA1EKA4R7B	4.7 25V [M]	C438	ECEA1CKA100B	10 16V [M]
R1006	ERDS2TJ272T	2.7K 1/4W [M]	C23	ECFR1C333MR	0.03316V [M]	C211	ECBT1H331KB5	330P 50V [M]	C439	ECFR1C333MR	0.03316V [M]
R1007	ERDS2TJ392T	3.9K 1/4W [M]	C24	ECFR1C333MR	0.03316V [M]	C301	ECEA1HN2R2SB	2.2 50V [M]	C501	ECBT1H221KB5	220P 50V [M]
R1008	ERDS2TJ682T	6.8K 1/4W [M]	C30	ECBT1H331KB5	330P 50V [M]	C303	ECBT1C103MS5	0.01 16V [M]	C502	ECEA1CKA100B	10 16V [M]
R1009	ERDS2TJ103T	10K 1/4W [M]	C31	ECBT1C103MS5	0.01 16V [M]	C305	ECQP2A821JZT	820P 100V[M]	C503	ECEA1CKA100B	10 16V [M]
R1010	ERDS2TJ102T	1K 1/4W [M]	C32	ECBT1H102KB5	1000P50V [M]	C306	ECQP2A472JZT	4700P100V[M]	C504	ECEA1HKAR22B	0.22 50V [M]
R1011	ERDS2TJ102T	1K 1/4W [M]	C33	ECBT1H102KB5	1000P50V [M]	C307	ECEA1HKA010B	1 50V [M]	C505	ECFR1C333MR	0.03316V [M]
R1012	ERDS2TJ122T	1.2K 1/4W [M]	C34	ECBT1H102KB5	1000P50V [M]	C308	ECA1AM101B	100 10V [M]	C506	ECBT0J223MS5	0.0226.3V[M]
R1013	ERDS2TJ182T	1.8K 1/4W [M]	C35	ECEA1AKA101B	100 10V [M]	C309	ECQV1H473JZ3	0.04750V [M]	C508	ECBT1H101KB5	100P 50V [M]
R1014	ERDS2TJ222T	2.2K 1/4W [M]	C36	ECA1EM101B	100 25V [M]	C310	ECBT1H102KB5	1000P50V [M]	C512	ECBT1H221KB5	220P 50V [M]
R1015	ERDS2TJ272T	2.7K 1/4W [M]	C37	ECBT1C103MS5	0.01 16V [M]	C311	ECBT1H102KB5	1000P50V [M]	C516	ECBT1H470J5	47P 50V [M]
R1102	ERDS2TJ102T	1K 1/4W [M]	C38	ECBT1H101KB5	100P 50V [M]	C312	ECBT1C222MR5	2200P16V [M]	C519	ECFR1C683MR	0.06816V [M]
R1107	ERDS2TJ472T	4.7K 1/4W [M]	C39	ECBT1H120JC5	12P 50V [M]	C313	ECBT1C222MR5	2200P16V [M]	C521	ECBT0J153MS5	0.0156.3V[M]
R1108	ERDS2TJ471T	470 1/4W [M]	C40	ECBT1C222MR5	2200P16V [M]	C314	ECBT1C332MR5	3300P16V [M]	C522	ECBT0J153MS5	0.0156.3V[M]
R1109	ERDS2TJ103T	10K 1/4W [M]	C41	ECBT1H101KB5	100P 50V [M]	C315	ECEA0JKA470B	47 6.3V [M]	C528	ECBT1H471KB5	470P 50V [M]
R1110	ERDS2TJ102T	1K 1/4W [M]	C42	ECBT1H180JC5	18P 50V [M]	C317	ECEA1CKA100B	10 16V [M]	C530	ECA1AM101B	100 10V [M]
R1111	ERDS2TJ182T	1.8K 1/4W [M]	C43	ECBT1H101KB5	100P 50V [M]	C318	ECFR1C473MR	0.04716V [M]	C531	ECBT1H471KB5	470P 50V [M]

Ref No.	Part No.	Values&Remarks	Ref No.	Part No.	Values&Remarks	Ref No.	Part No.	Values&Remarks	Ref No.	Part No.	Values&Remarks
C532	ECA1AM101B	100 10V [M]	C704	ECUZ1E104MBN	0.1 25V [M]	C805	ECBT1H102KB5	1000P50V [M]			TEST JUMPERS
C533	ECA1AM471B	470 10V [M]	C706	ECUZ1H272KBN	2700P50V[M]	C806	ECBT1C103MS5	0.01 16V [M]	TJ701	EYF8CU	TEST JUMPER [M]
C534	ECQV1H224JZ3	0.22 50V [M]	C707	ECUZ1E273KBN	0.02725V [M]	C807	ECBT1H390J5	39P 50V [M]			
C535	ECEA1HKA010B	1 50V [M]	C710	ECUV1H151KCN	150P 50V [M]	C808	ECBT1H470J5	47P 50V [M]			
C536	ECBT1H102KB5	1000P50V[M]	C711	ECUZ1E104ZFN	0.1 25V [M]	C809	ECBT1H220JC5	22P 50V [M]			
C538	ECEA1CKA100B	10 16V [M]	C712	ECUZ1E104ZFN	0.1 25V [M]	C810	ECBT1H560J5	56P 50V [M]			
C539	ECFR1C333MR	0.03316V [M]	C713	ECUZ1E104MBN	0.1 25V [M]	C812	ECBT1C103MS5	0.01 16V [M]			
C605	ECEA1HKAR22B	0.22 50V [M]	C714	ECEA0JKA101I	100 6.3V[M]	C813	ECBT1H180JC5	18P 50V [M]			
C606	ECBT1H102KB5	1000P50V[M]	C715	ECUZ1H182KBN	1800P50V[M]	C814	ECBT1H220JC5	22P 50V [M]			
C607	ECEA1CKA100B	10 16V [M]	C716	ECUZ1H821KBN	820P 50V [M]	C815	ECBT1H561KB5	560P 50V [M]			
C610	ECA1CM101B	100 16V [M]	C717	ECUZ1E104ZFN	0.1 25V [M]	C816	ECBT1H561KB5	560P 50V [M]			
C611	ECBT1H221KB5	220P 50V [M]	C718	ECUZ1C224KBN	0.22 16V [M]	C817	ECBT1H561KB5	560P 50V [M]			
C612	ECA1AM101B	100 10V [M]	C721	ECUZ1H150JCN	15P 50V [M]	C818	ECBT1H561KB5	560P 50V [M]			
C613	ECBT1H471KB5	470P 50V [M]	C722	ECUZ1H150JCN	15P 50V [M]	C821	ECEA0JKA470B	47 6.3V[M]			
C614	ECA1AM101B	100 10V [M]	C723	ECEA1AKA221I	220 10V [M]	C822	ECBT1H561KB5	560P 50V [M]			
C615	ECEA0JKA220B	22 6.3V[M]	C724	ECUZ1E104MBN	0.1 25V [M]	C823	ECBT1H561KB5	560P 50V [M]			
C616	ECA1EM332E	3300 25V [M]	C725	ECUZ1H102KBN	1000P50V[M]	C824	ECBT1H102KB5	1000P50V [M]			
C617	ECEA1HKA010B	1 50V [M]	C726	ECUZ1H102KBN	1000P50V [M]	C827	ECBT1H561KB5	560P 50V [M]			
C619	ECEA1CKA100B	10 16V [M]	C727	ECA1HAK010XI	1 50V [M]	C828	ECBT1H561KB5	560P 50V [M]			
C620	ECEA1CKA100B	10 16V [M]	C728	ECA1HAK010XI	1 50V [M]	C832	ECBT1H221KB5	220P 50V [M]			
C621	ECEA1CKA100B	10 16V [M]	C730	ECUZ1E104ZFN	0.1 25V [M]	C834	ECBT1H221KB5	220P 50V [M]			
C622	ECEA1CKA100B	10 16V [M]	C731	ECEA0JKA221I	220 6.3V[M]	C901	ECKR1H103ZF5	0.01 50V [M]			
C624	ECBT1H221KB5	220P 50V [M]	C732	ECEA0JKA221I	220 6.3V[M]	C902	ECKR1H103ZF5	0.01 50V [M]			
C625	ECBT1H221KB5	220P 50V [M]	C733	ECUZ1E104MBN	0.1 25V [M]	C903	ECKR1H103ZF5	0.01 50V [M]			
C627	ECA1AM101B	100 10V [M]	C734	ECEA1AKA221I	220 10V [M]	C904	ECKR1H103ZF5	0.01 50V [M]			
C628	ECEA1CKA100B	10 16V [M]	C735	ECUZ1E104ZFN	0.1 25V [M]	C1301	ECEA1CU100	10 16V [M]			
C629	ECBT1H102KB5	1000P50V [M]	C736	ECUZ1E104ZFN	0.1 25V [M]						
C630	ECBT1H221KB5	220P 50V [M]	C737	ECUZ1E104ZFN	0.1 25V [M]			CHIP JUMPERS			
C642	ECEA0JKA220B	22 6.3V[M]	C738	ECUZ1E104MBN	0.1 25V [M]	RJ701	ERJ6GEY0R00A	0 1/10W [M]			
C643	ECA1EM331B	330 25V [M]	C739	ECUZ1H103KBN	0.01 50V [M]	RJ702	ERJ8GEY0R00A	0 1/8W [M]			
C644	ECEA1HKAR22B	0.22 50V [M]	C742	ECUZ1E273KBN	0.02725V [M]	RJ703	ERJ8GEY0R00A	0 1/8W [M]			
C645	ECFR1C473MR	0.04716V [M]	C743	ECUZ1E104ZFN	0.1 25V [M]	RJ704	ERJ8GEY0R00A	0 1/8W [M]			
C646	ECBT1H471KB5	470P 50V [M]	C744	ECUZ1E123KBN	0.01225V [M]	RJ705	ERJ8GEY0R00A	0 1/8W [M]			
C647	ECA1AM101B	100 10V [M]	C745	ECUZ1C473KBN	0.04716V [M]	RJ706	ERJ8GEY0R00A	0 1/8W [M]			
C649	ECA1AM101B	100 10V [M]	C747	ECUV1H221KBN	220P 50V [M]	RJ707	ERJ8GEY0R00A	0 1/8W [M]			
C650	ECA1AM101B	100 10V [M]	C749	ECUZ1H222KBN	2200P50V[M]	RJ708	ERJ8GEY0R00A	0 1/8W [M]			
C651	ECEA1HKA010B	1 50V [M]	C750	ECUZ1E104MBN	0.1 25V [M]	RJ709	ERJ8GEY0R00A	0 1/8W [M]			
C652	ECQV1H224JZ3	0.22 50V [M]	C751	ECUZ1E104MBN	0.1 25V [M]	RJ710	ERJ8GEY0R00A	0 1/8W [M]			
C653	ECQV1H224JZ3	0.22 50V [M]	C752	ECUZ1H102KBN	1000P50V[M]	RJ721	ERJ6GEY0R00A	0 1/10W [M]			
C654	ECA1VM331B	330 35V [M]	C753	ECUZ1H471KBM	470P 50V [M]	RJ722	ERJ6GEY0R00A	0 1/10W [M]			
C656	ECEA1HKA010B	1 50V [M]	C754	ECUZ1H471KBN	470P 50V [M]	RJ723	ERJ6GEY0R00A	0 1/10W [M]			
C657	ECEA1CKA100B	10 16V [M]	C761	ECUZ1H471KBN	470P 50V [M]	RJ724	ERJ6GEY0R00A	0 1/10W [M]			
C659	ECA1AM101B	100 10V [M]	C762	ECUZ1H471KBN	470P 50V [M]	RJ725	ERJ6GEY0R00A	0 1/10W [M]			
C660	ECBT1H104KB5	0.1 50V [M]	C790	ECA1AKF820E	82 10V [M]	RJ726	ERJ6GEY0R00A	0 1/10W [M]			
C661	ECBT1H104KB5	0.1 50V [M]	C801	ECBT1H102KB5	1000P50V[M]	RJ727	ERJ6GEY0R00A	0 1/10W [M]			
C701	ECEA0JKA330I	33 6.3V[M]	C802	ECBT1H102KB5	1000P50V[M]	RJ728	ERJ6GEY0R00A	0 1/10W [M]			
C702	ECUZ1E104MBN	0.1 25V [M]	C803	ECBT1H102KB5	1000P50V[M]	RJ750	ERJ6GEY0R00A	0 1/10W [M]			
C703	ECEA0JKA101I	100 6.3V[M]	C804	ECEA0JKS101B	100 6.3V[M]						

Packing Materials & Accessories

- Notes: *
- Important safety notice:
Components identified by  mark have special characteristics important for safety. Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low noise (resistors), etc are used.
 - When replacing any of these components, be sure to use only manufacturer's specified parts shown in the parts list .
 - The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area)
 - Parts without these indications can be used for all areas.
 - The "(SF)" mark denotes the standard part.
 - [M] indicates in the Remarks columns indicates parts supplied by MESA.
 - Remote Control Unit : Supply period for three years from terminal of production.

Ref No.	PartNo.	Part Name & Description	Remarks	Ref No.	PartNo.	Part Name & Description	Remarks	Ref No.	PartNo.	Part Name & Description	Remarks
		PACKING MATERIALS				ACCESSORIES					
P1	RPG4085	PACKING CASE	[M]GC	A1	EUR644861	REMOTE CONTROL	[M]	A3	RJA0004	AC CORD (SF)	[M]GT
P1	RPG4086	GIFT BOX	[M]GT	A1-1	UR64EC1822H	B/C BATTERY COVER	[M]	A3	RJA0019-2K	AC CORD (SF)	[M]GC
P2	RPH0177	MIRAMAT SHEET	[M]	A2	RQT4604-G	O/I BOOK (Sp/Ch/Ar)	[M]GC	A4	SJP5213-2	AC CORD ADAPTOR	[M]GC
P3	RPN1141	POLYFOAM	[M]	A2	RQT4605-G	O/I BOOK (Sp/Ch/Ar)	[M]GT				

Packaging

ACCESSORIES

A1 (EUR644861)	: REMOTE CONTROL	A3 (RJA0004)	: AC CORD (SF) GT
A2 (RQT4604-G)	: O/I BOOK GC	A3 (RJA0019-2K)	: AC CORD
A2 (RQT4605-G)	: O/I BOOK GT		

