

Service Manual

COMPACT
disc
DIGITAL AUDIO

MASH*¹
multi-stage noise shaping

*² **DD** **DOLBY B NR**

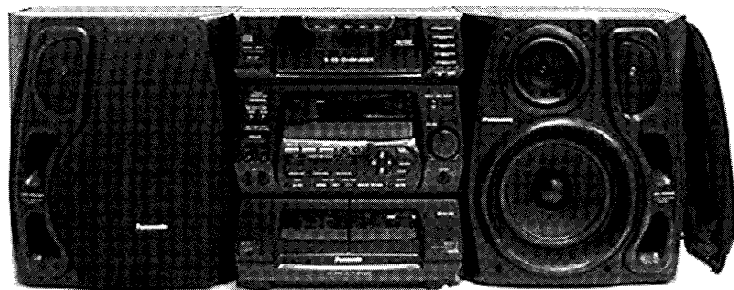
CD Stereo System
SA-CH75

Colour

(K) ... Black Type

Area

Suffix for Model No.	Area	Colour
(GC)	Middle Near East	(K)
(GCS)	Singapore	
(GT)	Taiwan	
(GN)	Oceania	



Remote Control
Transmitter

SB-CH75

SA-CH75

SB-CH75

- *² Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby" and the double-D symbol are trade marks of Dolby Laboratories Licensing Corporation.

System	Music Center	Speaker
SC-CH75 (GC)	SA-CH75 (GC)	SB-CH75 (GC)
SC-CH75 (GCS)	SA-CH75 (GCS)	
SC-CH75 (GT)	SA-CH75 (GT)	
SC-CH75 (GN)	SA-CH75 (GN)	

*¹

MASH is a trademark of NTT.

TAPE SECTION : AR2 MECHANISM SERIES CD SECTION : RAE0150Z TRAVERSE DECK SERIES

Specifications

Amplifier Section

1 kHz continuous power output	
Both channels driven	2 x 60W (THD 1%, 4 Ω)
RMS	2 x 90W (THD 10%, 4 Ω)
Total harmonic distortion	
Half power at 1 kHz	0.06 % (4 Ω)
Frequency response	
AUX	60 Hz – 20 kHz (–3 dB)
Input sensitivity and impedance	
AUX	250 mV, 28 kΩ
MIC	0.6 mV, 680 Ω
Tone controls	
6 EQ SPACE	HEAVY, CLEAR, SOFT, DISCO, LIVE, HALL
V. BASS (volume at –30 dB)	63 Hz, 7 dB
Load impedance	4 Ω

FM Tuner Section

Frequency range	87.50 – 108.00 MHz
Sensitivity	23.3 dBf
Total harmonic distortion	
MONO	0.3 %
STEREO	0.5 %
S/N (MONO)	60 dB
Image rejection at 98 MHz	35 dB
Stereo separation at 1 kHz	35 dB
Antenna terminal(s)	75 Ω (unbalanced)

AM Tuner Section

Frequency range	
(For areas except Oceania)	
MW	531 – 1602 kHz (9 kHz steps) 530 – 1600 kHz (10 kHz steps)
SW	3.2 – 7.300 MHz 9.5 – 21.850 MHz
(For Oceania)	
AM	522 – 1611 kHz
Sensitivity (for 500 mW)	
(For areas except Oceania)	
MW (at 999 kHz, 1000 kHz)	250 μV/m
SW (at 4 MHz)	12.6 μV
(at 12 MHz)	40 μV
(For Oceania)	
AM (at 999 kHz)	250 μV/m

CD Section

Sampling frequency	44.1 kHz
Decoding	16 bit linear
Beam source/wave length	Semiconductor laser / 780 nm
Number of channels	Stereo
Frequency response	20 Hz – 20 kHz (+1 dB, –2 dB)
S/N (CD UNIT OUT)	95 dB (JIS. A)
Wow and flutter	Below measurable limit
Digital filter	8 fs
D/A converter	MASH (1 bit DAC)

Notes :

- Specifications are subject to change without notice.
Weight and dimensions are approximate.
- Total harmonic distortion is measured by the digital spectrum analyzer.

⚠ WARNING

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

■ Cassette Deck Section

Track system	4 track, 2 channel	Wow and flutter	0.18 % (WRMS)
Heads		Fast forward and rewind times	Approx. 120 seconds with C-60 cassette tape
Playback	Solid permalloy head (Rotary head)		
Record/playback	Solid permalloy head (Rotary head)		
Erase	Double gap ferrite head		
Motor	DC servo motor		
Recording system	AC bias 100 kHz		
Erasing system	AC erase 100 kHz		
Tape speed	4.8 cm/s (1 $\frac{7}{8}$ ips)		
Frequency response [(+3 dB, -6 dB) at deck out]			
NORMAL	35 Hz – 14 kHz		
HIGH	35 Hz – 14 kHz		
S/N (HIGH POSITION)			
Dolby NR off	50 dB (A weighted)		
Dolby NR on	60 dB (CCIR)		

■ General

Power consumption	230W
Power supply	AC 110 V/127 V/220 V/240 V, 50/60 Hz (GC, GT) AC 230 V, 50 Hz (GCS) AC 230 – 240 V, 50 Hz (GN)
Dimensions (W x H x D)	270 x 331.5 x 331 mm
Weight	8.9 kg

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■ Before Use

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 unit will be used. (If the power supply in your area is 117 V or 120 V, set to the "127 V" 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.)

■ Before Repair and Adjustment

Disconnect AC power, discharge both Power Supply Capacitors C522 and C523 through a 10 Ω , 5W resistor to ground.

DO NOT SHORT-CIRCUIT DIRECTLY (with a screwdriver blade, for instance), as this may destroy solid state devices.

After repairs are completed, restore power gradually using a variac, to avoid overcurrent.

For GCS

Current consumption at AC 230V, 50 Hz in NO SIGNAL mode should be ~300mA.

For GN

Current consumption at AC 240V, 50 Hz in NO SIGNAL mode should be ~300mA.

For GC

Current consumption at 50/60Hz in NO SIGNAL mode should be shown below with respect to supply voltage AC 110V/127V/220V/240.

Power supply voltage		AC 110V	AC 127V	AC 220V	AC 240V
Consumed current at 50/60 Hz	50 Hz	~ 600 mA	~ 600 mA	~ 320 mA	~ 300 mA
	60 Hz	—	—	—	—

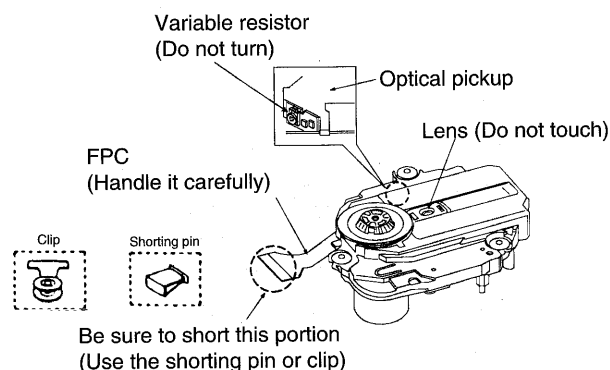
■ Handling Precautions For Traverse Deck

The laser diode in the traverse deck (optical pickup) may break down due to potential difference caused by static electricity of clothes or human body.

So, be careful of electrostatic breakdown during repair of the traverse deck (optical pickup).

• Handling of traverse deck (optical pickup)

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

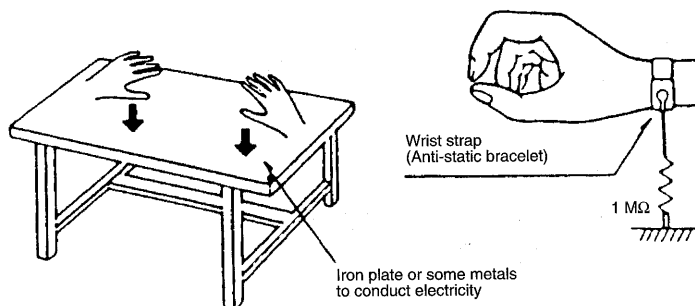


• Grounding for electrostatic breakdown prevention

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

Caution :

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



■ Protection Circuitry

The protection circuitry may have operated if either of the following conditions are noticed:

- No sound is heard when the power is turned on.
- Sound stops during a performance.

The function of this circuitry is to prevent circuitry damage if, for example, the positive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of the amplifier are used.

If this occurs, follow the procedure outlines below:

1. Turn off the power.
2. Determine the cause of the problem and correct it.
3. Turn on the power once again after one minute.

Note:

When the protection circuitry functions, the unit will not operate unless the power is first turned off and then on again.

■ 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 laserdiode. 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:

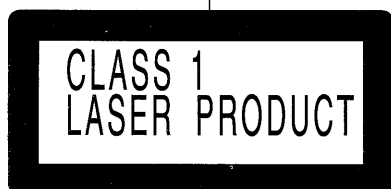
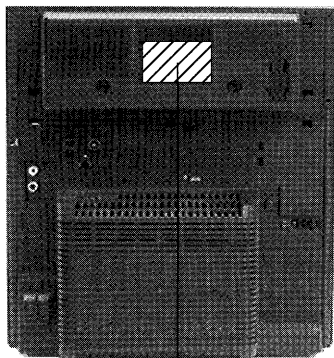
1. Die lasereinheit nicht zerlegen, da die strahlung an der freigelegten laserdiode gefährlich ist.
2. Den werkseitig justierten einstellregler der lasereinheit nicht verstellen.
3. Nicht mit optischen instrumenten in die fokussierlinse blicken.
4. Nicht über längere zeit in die fokussierlinse blicken.

ADVARSEL: I dette a apparat anvendes laser.

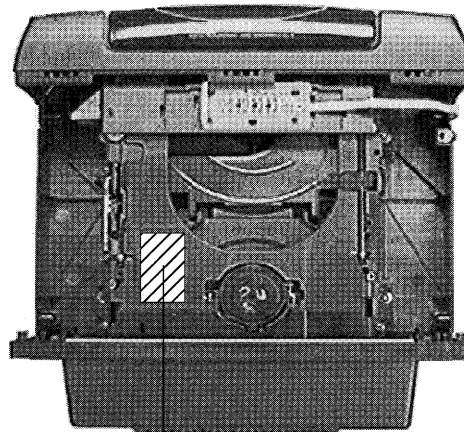
CAUTION!

THIS PRODUCT UTILIZES A LASER.

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

■ Use of Caution Labels

LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT



DANGER	INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM.
ADVARSEL	USYNLIG LASERSTRÅLING VED ÅBNING, NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VARO!	AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTÖNTÄ LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESSEEN.
VARNING	ÖSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRÄKTA EJ STRÅLEN.
ADVARSEL	USYNLIG LASERSTRÅLING NÄR DEKSEL ÅPNEES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT	UNSIHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.

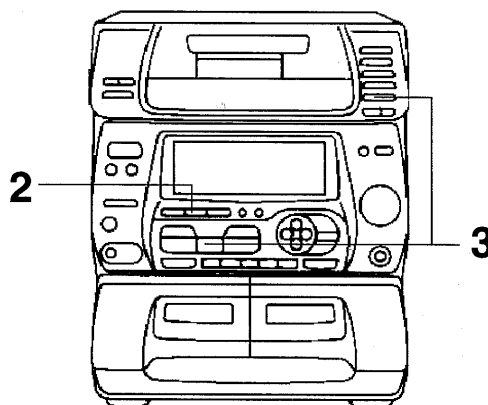
■ Before Moving or Shipping This Unit

Before moving or shipping this system:

Prepare the system as described below to prevent damage to the mechanism.

1. Remove all CDs.
2. Press CD.
3. Hold down stop button (■) for 2 seconds and then without releasing it, hold down both it and DISC 5 for 2 more seconds.
(This will turn OFF the power and set the so-called "shipping mode".)
4. Unplug the system.

Avoid strong vibrations or impact while moving the equipment. The shipping mode will turn OFF automatically when you turn the power ON the next time.



■ 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.

• Contents

• Disassembly Procedures

- | | |
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| 1. Removal of the CD Changer Unit | 5 |
| 2. Disassembly of the Traverse Unit | 6 |
| 3. Disassembly of the CD Changer Unit | 6 & 7 |

• Assembly of the CD Changer Unit

7 & 8

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

- | | |
|--|---|
| 1. Checking of the Servo P.C.B. | 8 |
| 2. Checking of the Main, Tuner, Panel and Deck P.C.B. | 9 |

• Main Component Replacement Procedures

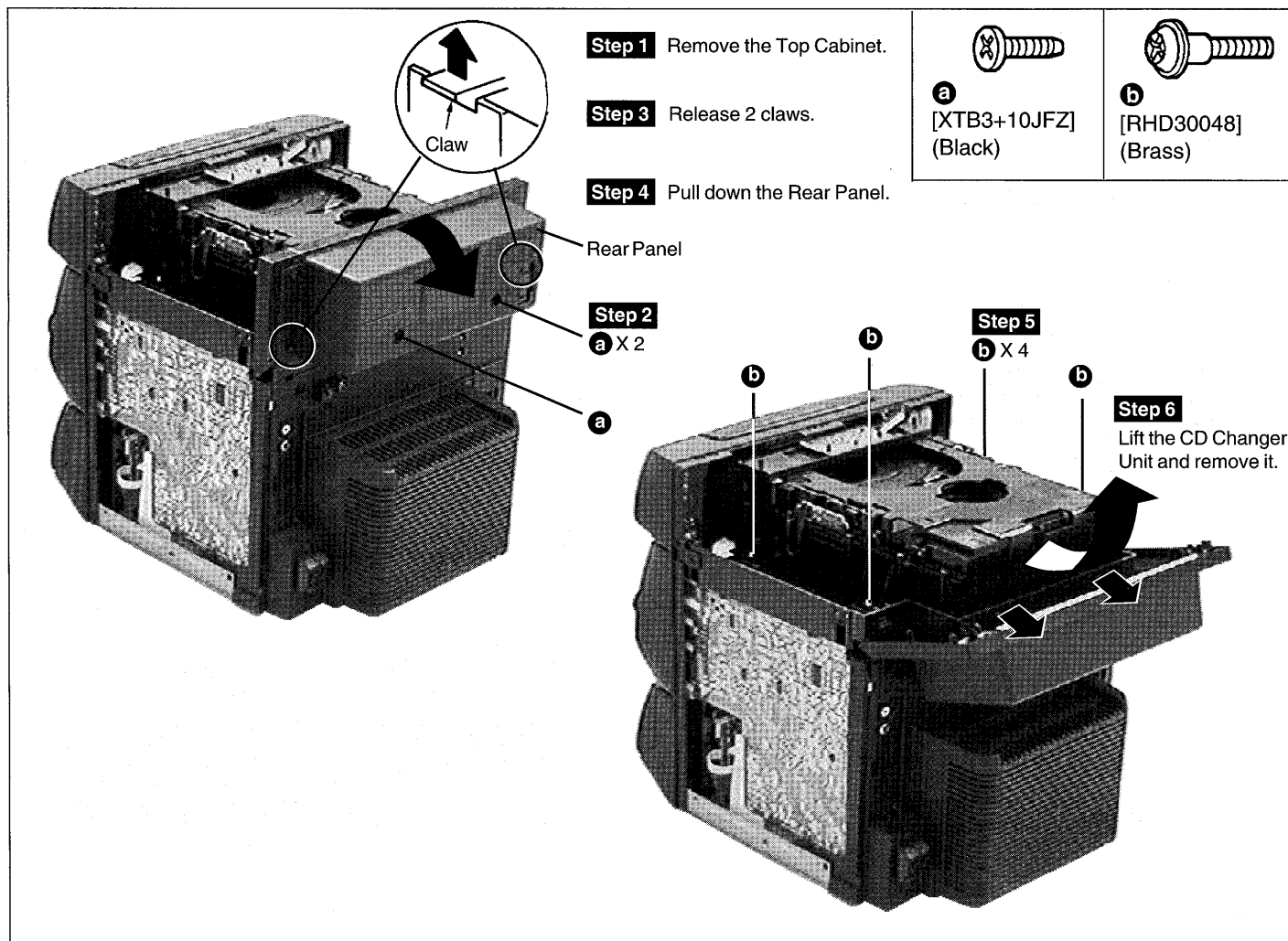
- | | |
|--|----|
| 1. Replacement of the Traverse Deck | 9 |
| 2. Replacement of the Power Amplifier IC and Regulator Transistors | 10 |

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

ACHTUNG : • Die Lasereinheit nicht zerlegen.

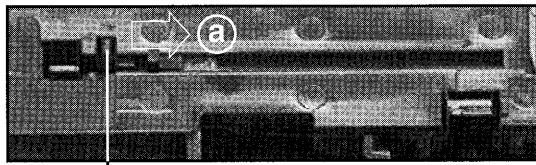
• Die Lasereinheit darf nur gegen eine vom hersteller spezifizierte einheit ausgetauscht werden.

■ Removal of the CD Changer Unit

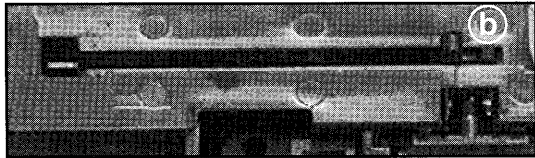


Disassembly of the Traverse Unit

Step 1 Follow the procedures in 'Remove of the CD Changer Unit' (Step 1 ~ Step 6).

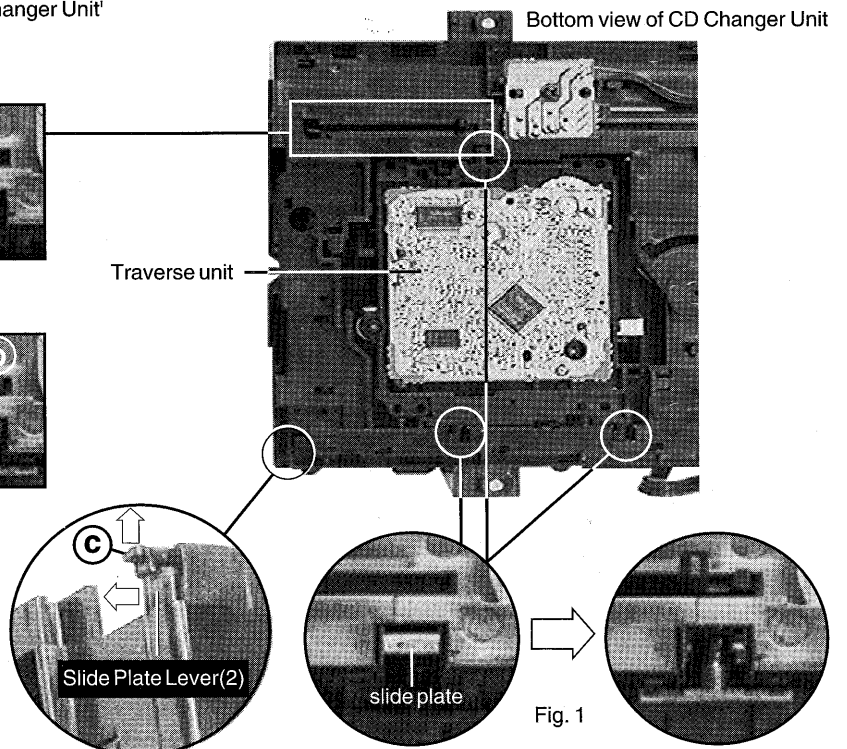


Slide Plate Lever(1)



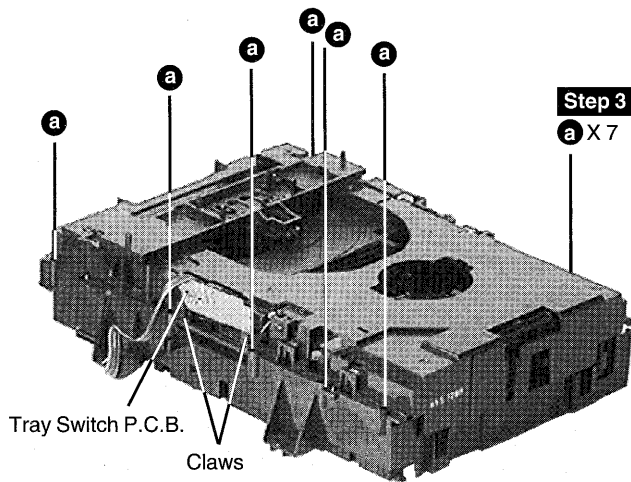
Step 2

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



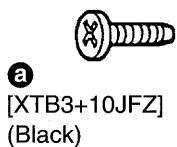
Disassembly of the CD Changer Unit

Step 1 Follow the procedures in 'Remove of the CD Changer Unit' (Step 1 ~ Step 6).

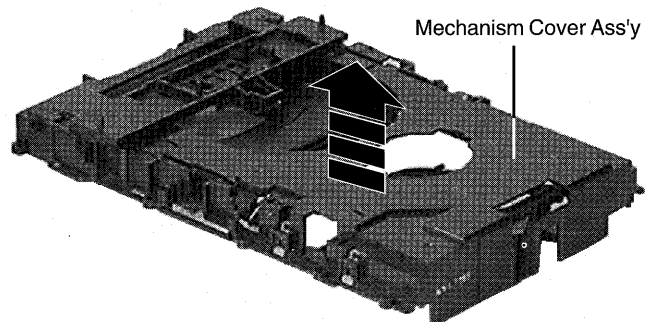


Step 3
a X 7

Step 2 Remove the Tray Switch P.C.B.

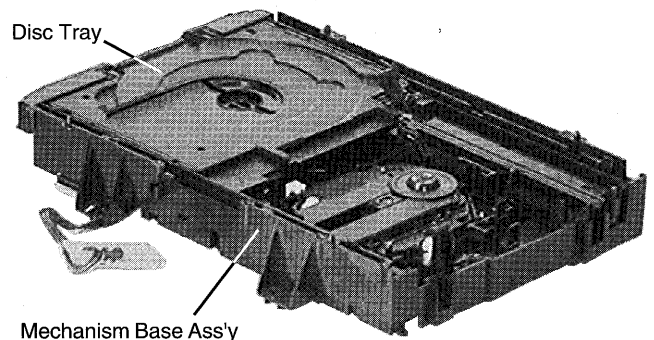


Step 4 Remove the Mechanism Cover Ass'y.



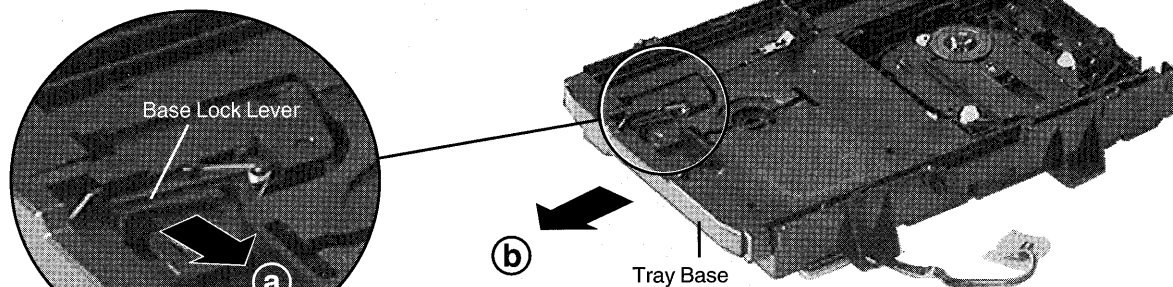
Step 5

Remove the Disc Tray sided on the Mechanism Base Ass'y.

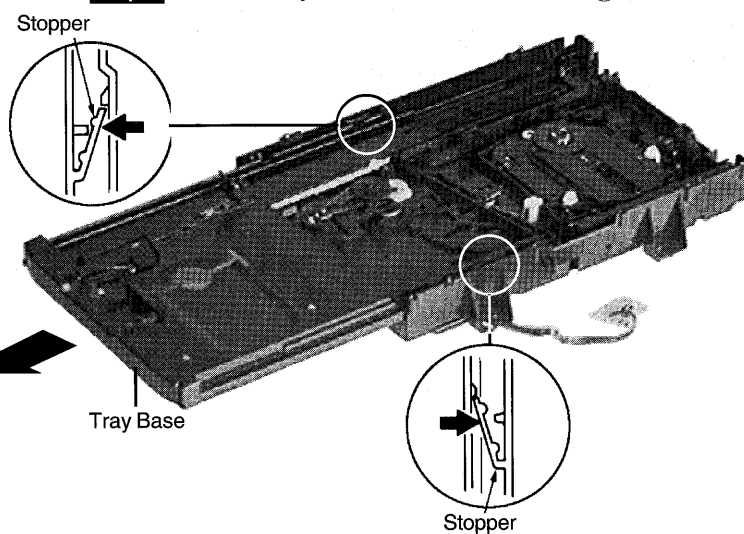


Step 6

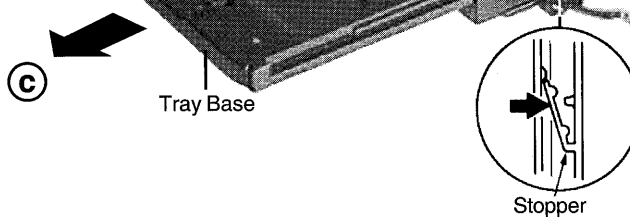
Unlock the Base Lock Lever in the direction of arrow (a).

**Step 7**

Draw the Tray Base in the direction of arrow (b) until it will be stopped.

**Step 8**

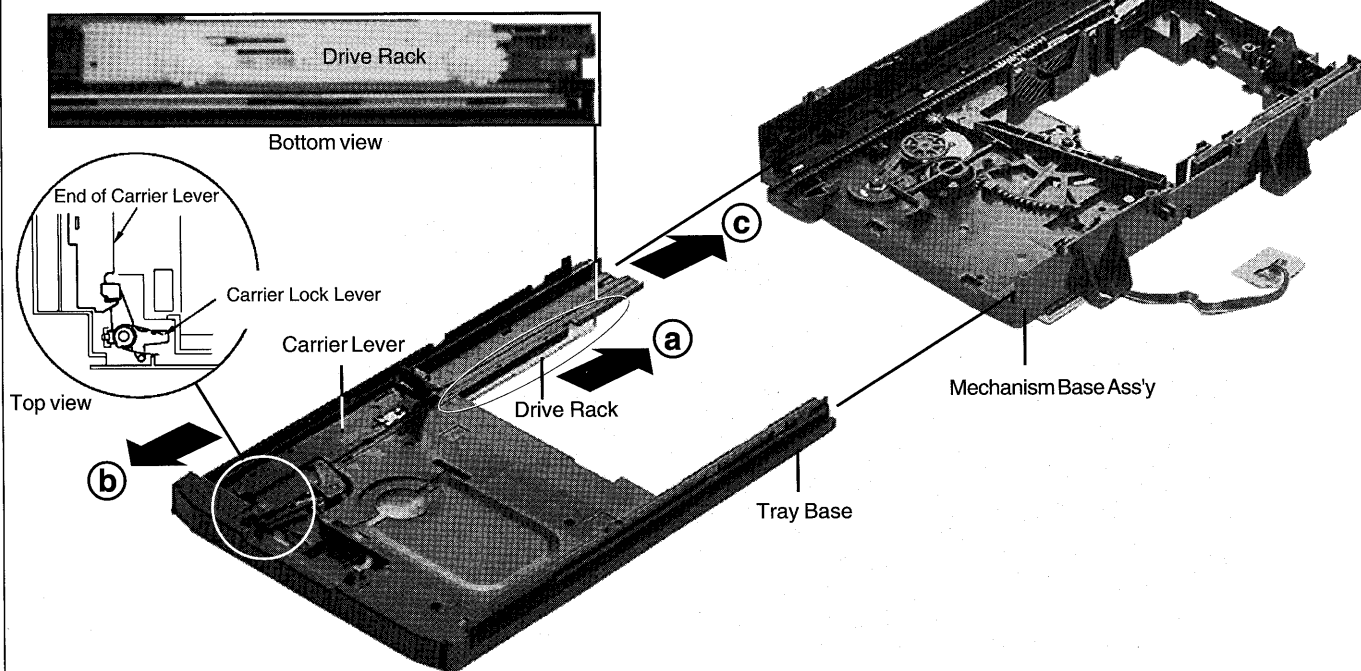
Release 2 stoppers manually and pull out the Tray Base in the direction of arrow (c).

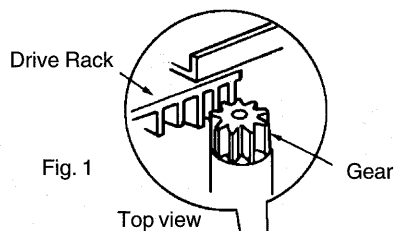


■ Assembly of the CD Changer Unit

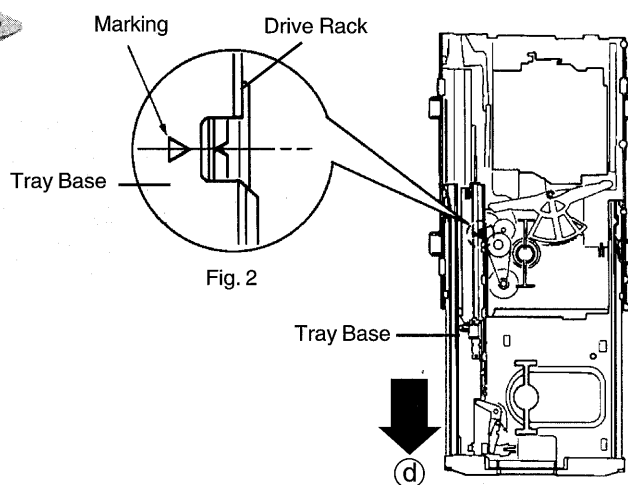
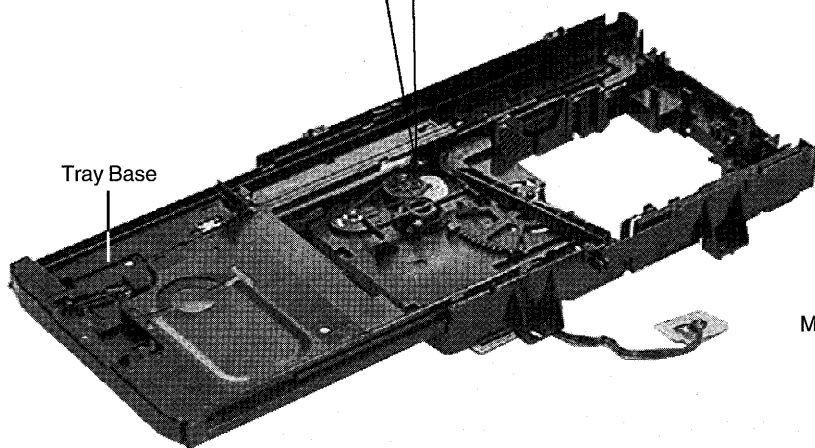
Step 1

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



**Step 2**

While holding the Drive Rack and Carrier Lever, insert the Tray Base on the Mechanism Base in the direction of arrow ㉓ until the Tray Base stops as shown in figure 1. Release only the Carrier Lever and push the Tray Base together with the Drive Rack. After engaging the gear, release the Drive Rack which held and feed the Tray Base slowly.

**Step 3**

Draw the Tray Base in the direction of arrow ㉔ to the end until it stops. Make sure the mark '▽' on the Tray Base is aligned with the mark '△' on the Drive Rack as shown in figure 2 before closing the Tray Base. (In case that the statement above is not operated, draw the Tray Base again from step 2)

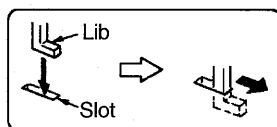
■ Checking Procedure for each major P.C.B.

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

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

Step 2

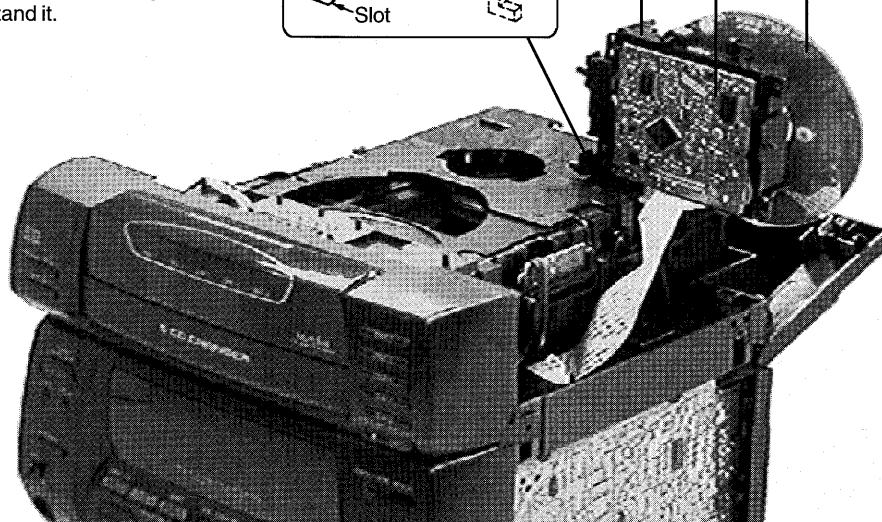
Slide in the Traverse Unit into a slot on the top of the CD Changer Unit and then stand it.



Servo P.C.B.

Traverse unit

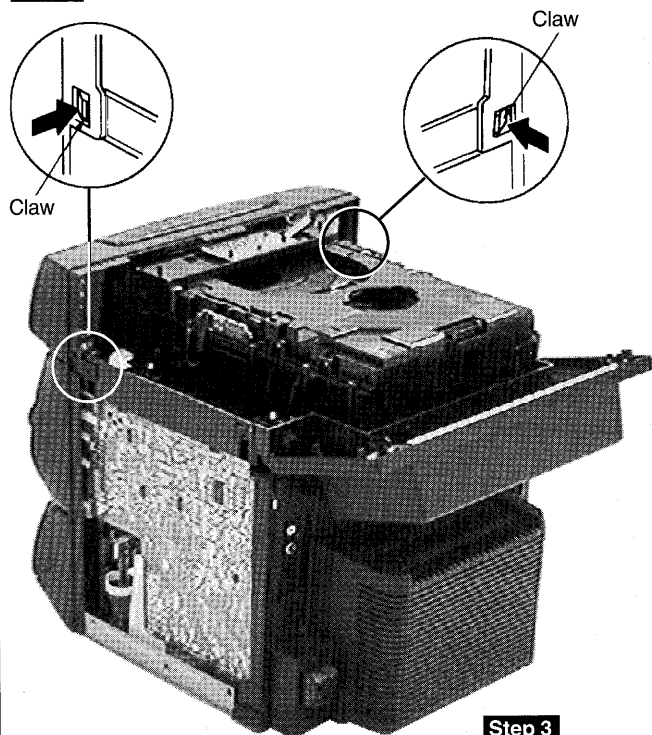
Disc

**Step 3**

Attach the disc and clumper with magnet to the Traverse Unit as shown in the diagram on the left, then check the Servo P.C.B. (Refer to page 13 of how to check the CD Unit without connecting to the CD Changer Loading Mechanism.)

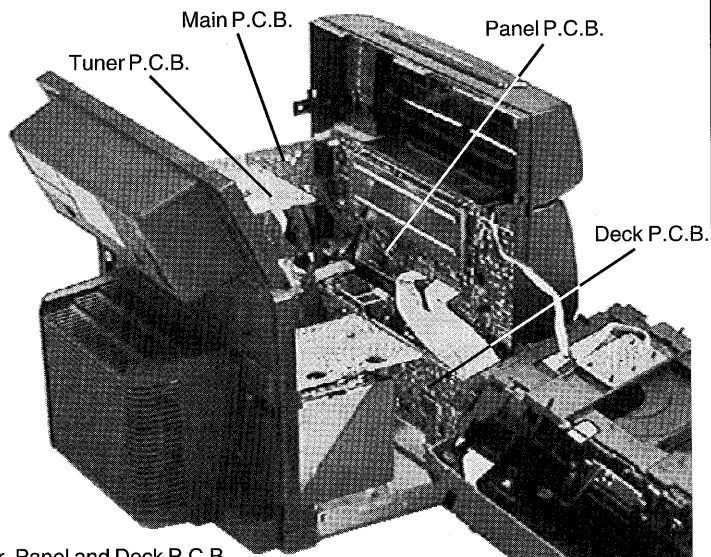
2. Checking of the Main, Tuner, Panel and Deck P.C.B.

Step 1 Follow the procedures in 'Removal of the CD Changer Unit' (**Step 1** ~ **Step 4**).



Step 2

Remove the CD Changer Chassis and CD Changer Unit with releasing the claws. (Put the CD Changer Chassis and Unit to the left side of the set)



Step 3

Check the Main, Tuner, Panel and Deck P.C.B.

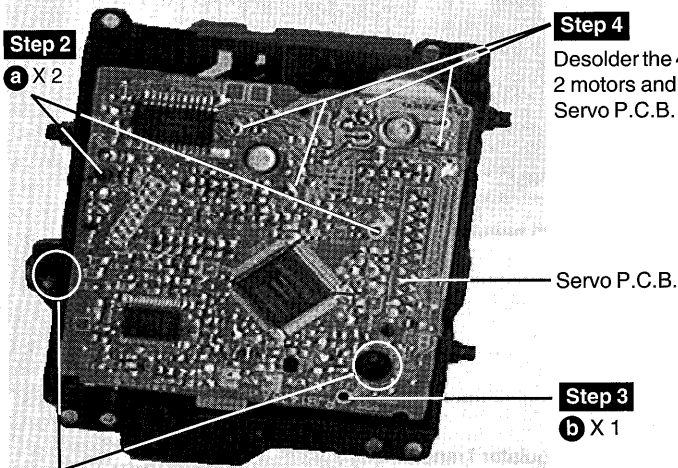
■ Main Component Replacement Procedures

1. Replacement of the Traverse Deck

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

Step 2

a X 2



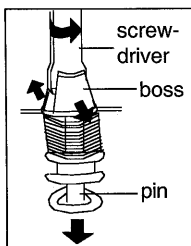
Step 4

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

Step 3

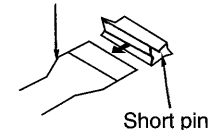
b X 1

Step 5 Widen the 2 bosses with a flat screwdriver and pull out the 2 pins. Then remove the Traverse Deck.



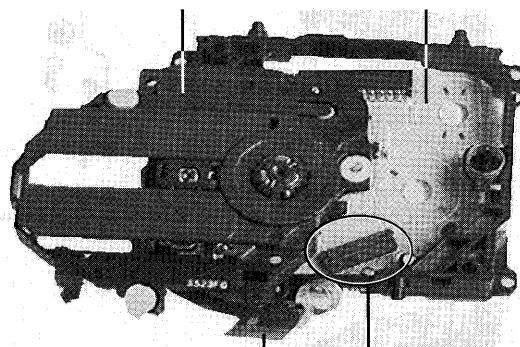
Note :
Insert a short pin into the flexible cable for traverse unit.

Flexible cable



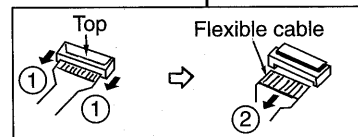
Traverse Deck

Servo P.C.B.



Step 6

Remove the flexible cable CN701.



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

a



[XTV2+6G] (Brass)

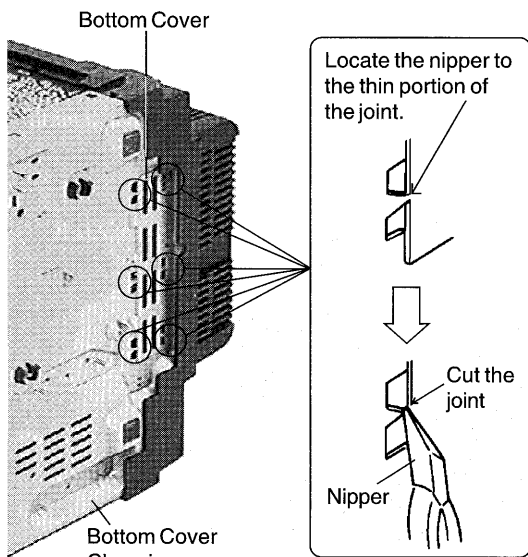
b



[XTN2+6G] (Brass)

2. Replacement of the Power Amplifier IC and Regulator Transistor.

Step 1 Follow the procedures in 'Checking of the Main, Tuner, Panel and Deck P.C.B.' and remove the Front Panel.



Step 2

Cut the joints (6 portion) between bottom cover and bottom cover chassis ass'y with a nipper.

Step 3

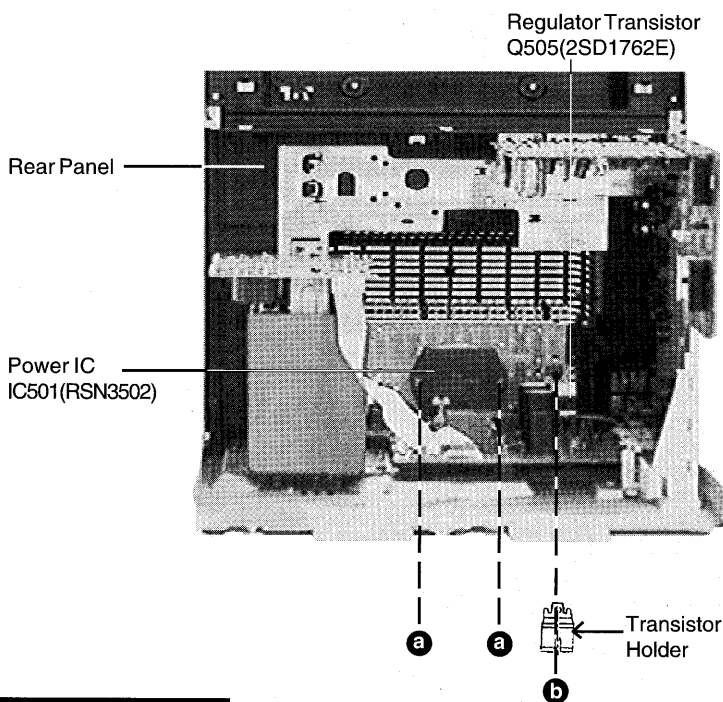
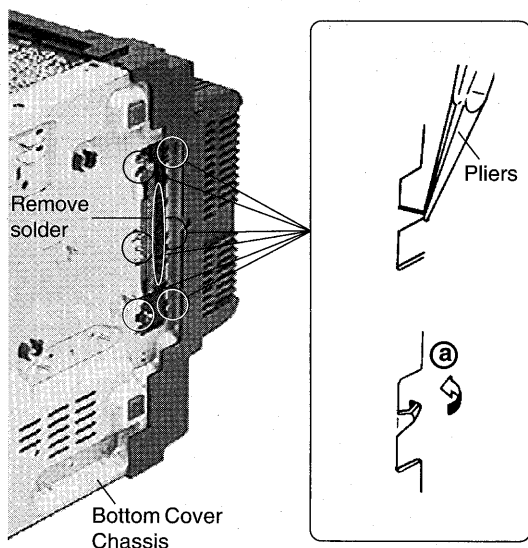
After cutting the joints (6 portions), bend the portions of the bottom cover ass'y in the direction of arrow (a) with pliers. (Step 2 must be performed to avoid injury by sharp edge.)

Step 4

Unsolder the terminals of Power IC or Regulator Transistor on the solder surface.

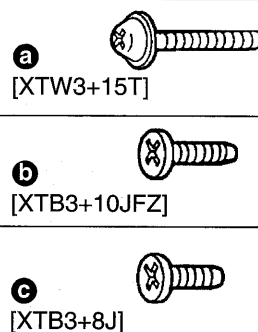
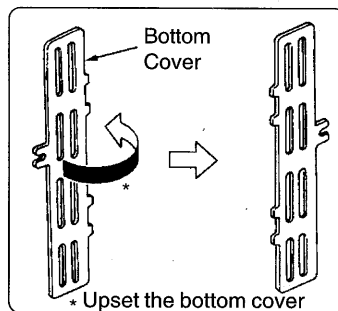
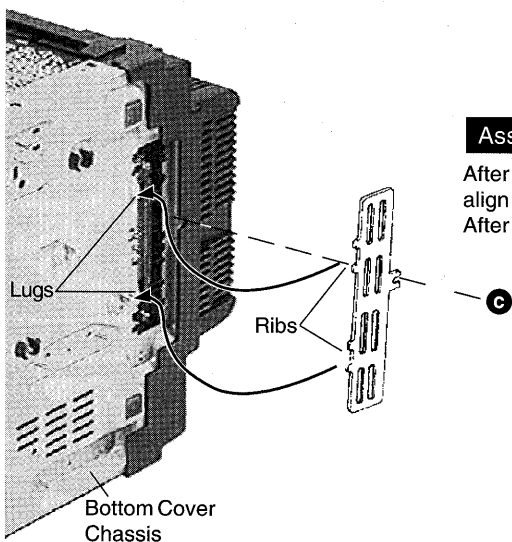
Step 5

Remove 3 screws fixed to the Power IC and Transistor Holder, then remove Power IC, Transistor Holder and Regulator Transistor.



Assembly of Bottom Cover

After replacing the Power IC or Regulator Transistor, upset the bottom cover and align the ribs of bottom cover to the lugs on the bottom chassis ass'y. After mounting the bottom cover on the bottom chassis ass'y, fix it with a screw.

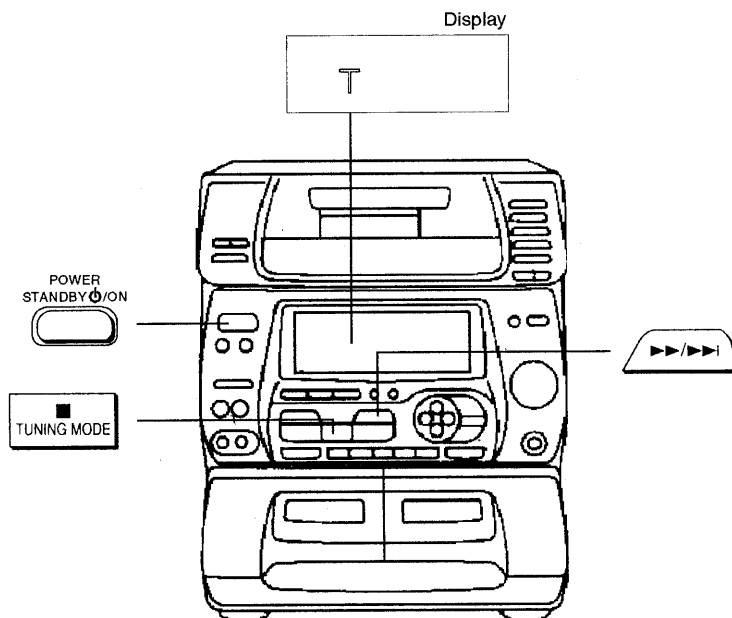
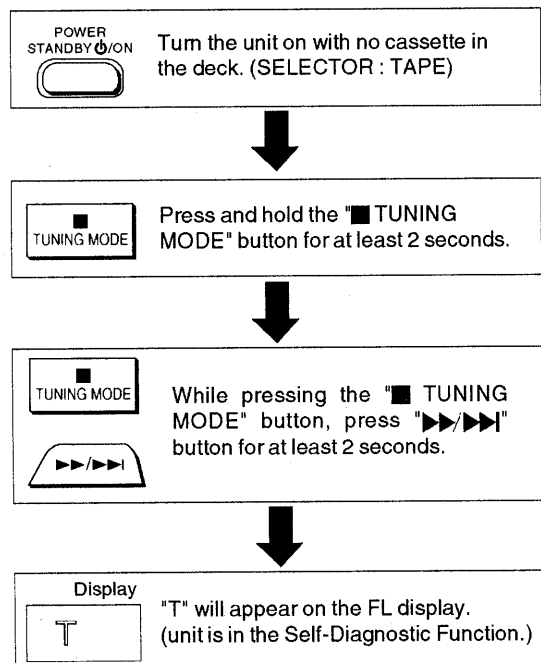


■ Self-Diagnostic Display Function

■ Self-diagnostic display

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

■ How to enter the Self-Diagnostic Function



■ Cassette Mechanism Test (For error code H01, H02, H03, F01, F02)

1. Press "TAPE, DECK 1/2" to select Deck 2.
2. Load a cassette tape with the erasure prevention tab, remove from left side only and close the cassette holder.
3. Press "F.F.F.F." (Tape will be stop after 2 seconds).
4. Load a cassette tape with the erasure prevention tab, remove from right side only and close the cassette holder.
5. Press "R.R.R.R." (Tape will be stop after 2 seconds).
6. Load a pre-recorded tape with both side and close the cassette holder.
7. Press "▶ FM MODE/BP" (After TPS function, tape will stop automatically).
8. Press "REC START/STOP" (Tape will not move).
9. Press "TUNING MODE" to indicate Error code.
 - If several problem exist, error code will change each time when "TUNING MODE" is pressed. (e.g. H01 → H03 → F01 etc.)
10. Press "TAPE, DECK 1/2" to select Deck 1.
11. Repeat step 2 to 9 to test Deck 1. (Tape Deck 1 will not check H02 because of no recording function)

■ CD Mechanism Test (F15, F16, F25 ~ F28, F75)

1. Press "CD".
2. Press "CHECK-NEXT/-AUTO".
3. Press "TUNING MODE" to indicate Error Code.
 - If several problem exist, error code will change each time when "TUNING MODE" is pressed. (e.g. F15 → F16 → F25 etc.)

■ To clear all Error code

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

■ How to get out from Self-Diagnostic function

1. Press "POWER" button OFF.

■ Power Amplifier Failure (F61)

1. When power amplifier fail, F61 will indicate automatically.

■ Description of Error Code

(1) Error detection for Cassette Mechanism block

No.	Error	Error Display	Problem condition
1	MODE SW detection error	H01	Faulty operation of cassette mechanism. Faulty contact or short-circuit of mechanism mode switch (S951, S971).
2	REC INH SW detection error	H02	Recording not possible. Faulty contact or short-circuit of REC INH switch (S974, S975).
3	HALF SW detection error	H03	Playback can not perform. Faulty contact or short-circuit of HALF switch (S952, S972).
4	Reel Pulse detection error	F01	The tape advances slightly and then stops. Faulty reel pulse, faulty hole detect IC (IC951, IC971).
5	TPS abnormal	F02	Cassette deck will not perform TPS function. Faulty playback EQ/recording amplifier IC (IC101).

(2) Error detection for CD/Changer block

No.	Error	Error Display	Problem condition
1	REST SW detection error	F15	CD does not function. This error occurs when the Optical Pick Up REST SW (S701) is not detected within the specified time (about 8 seconds)
2	S3 (TUP) detection error	F16	CD does not function. This error occurs when S3 (Traverse up detection) is not ON or OFF within the specified time.
3	S4 (DRO) detection error	F25	Tray does not stay open. This error occurs when S4 (Tray open detection) is not ON or OFF during OPEN/CLOSE operation within the specified time.
4	Transmission error between CD servo LSI and micon	F26	CD does not function. This error occurs when the POWER is ON for the CD block and an error is detected after the transmission has started.
5	S5 (TNO) detection error	F27	Tray number does not detect correctly. This error occurs when S5 (Tray number detection) can not be detected normally or when the TRAY No. is uncertain.
6	S1 (STK), S2 (PLY) detection error	F28	CD loading mechanism does not move correctly. This error occurs when S1 (stocker position detection) is not ON or OFF, or S2 (play position detection) is not ON or OFF within the specified time.
7	CD power error	F75	CD does not function. Check if CDRST is H for SELECTOR at CD. If it is not H after 1 second, it shall be memorised as an error. (IC702)

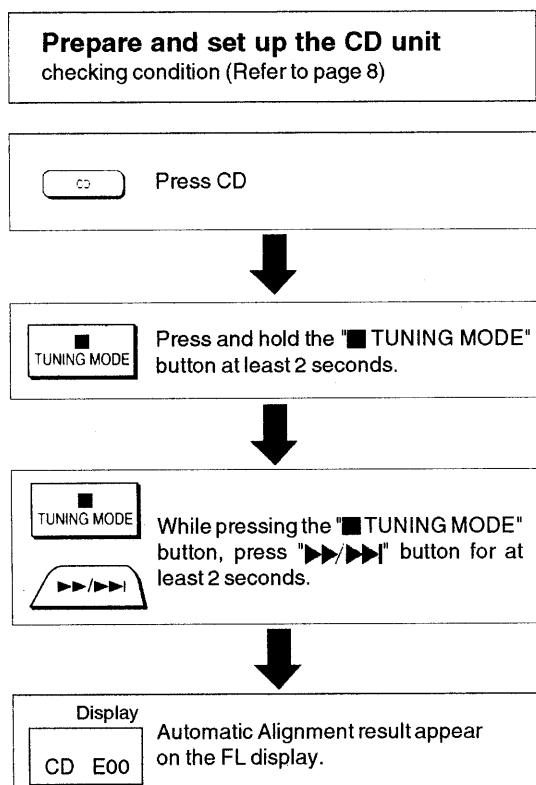
(3) Power Supply related error detection

No.	Error	Error Display	Problem condition
1	POWER AMP output abnormal	F61	When POWER is switched on, power become off automatically. During normal operation, if DC DET become L, PCNT shall become L and the error display on the left shall be displayed. (IC501)

■ CD Test Mode Function

This CD test mode is provided to check CD unit without connecting to changer loading mechanism. This mode shall operate CD PLAY with CD unit being connected only and CD Automatic Alignment result is shown on FL display.

■ How to set CD test mode



■ CD Automatic Alignment result indication

This function provided indication of error code as the result of Automatic Alignment of CD (Tracking, Focus, Offset, etc.). Based on these error codes, the faulty area can be located.

■ Error code Explanation

- The unit is satisfactory if the error code is E00
- Before testing, make sure that the test disc is free of scratches, dirt and that the optical pick up lens is clean.

Errorcode	E00	E01	E02	E03	E04	E05	E06	E07	E08	E09	E0A	E0B	E0C	E0D	E0E	E0F
Focus offset	○	✖	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Tracking offset	○	✖	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Focus Gain (Rough)	○	✖	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Tracking Gain (Rough)	○	—	○	✖	○	✖	○	✖	○	✖	○	✖	○	✖	○	✖
Tracking balance	○	—	✖	✖	○	○	✖	✖	○	○	✖	✖	○	○	✖	✖
Focus balance	○	—	○	○	✖	✖	✖	✖	○	○	○	○	✖	✖	✖	✖
Tracking or Focus Gain (Fine)	○	—	○	○	○	○	○	○	✖	✖	✖	✖	✖	✖	✖	✖

○ Satisfy

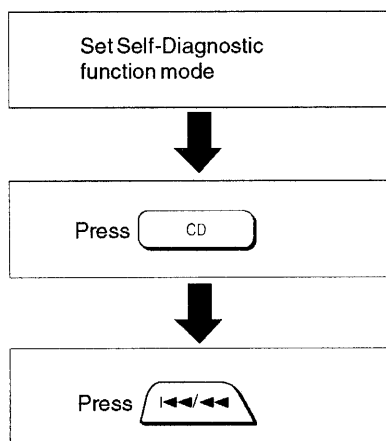
✖ Fault

(✖ Fault either items)

■ Reliability test mode for CD / CD CHANGER

This function provided to check CD player and CD CHANGER mechanism. Use this function to check CD player and loading mechanism operation after repair or to find intermittent problem.

■ How to set reliability test mode.



■ Operation and function

In the reliability test mode, the set repeat the following operation:

- 1) Open tray 1;
- 2) Fully OPEN condition, CLOSE 1 sec after drawer stops;
- 3) PLAY the first track of disc 1 for 2 sec;
- 4) Skip to the last track, play for 2 sec and stop;
- 5) Open tray 3;
- 6) Fully OPEN condition, CLOSE 1 sec after drawer stops;
- 7) PLAY the first track of the disc 3 for 2 sec;
- 8) Open tray 5;
- 9) Fully OPEN condition, CLOSE 1 sec after drawer stops;
- 10) Return to above step 1) after 1 sec.

- During this series of operation, the number of its operation shall be shown in the alphanumeric display repeatedly.

It shall start from

- It shall move up one counter when step 1- 10 of the above operations end.

It shall display after has been reached.

- During operation, if TNO SW and tray number detected are different, this error is counted and shown at the upper 2 digits of display. (e.g. Tray 3 pulse could not detected even when tray 3 is operating).

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- Execute POWER OFF to cancel the reliability test mode and the self-diagnostic mode.

■ Measurements and Adjustments

< TUNER SECTION >

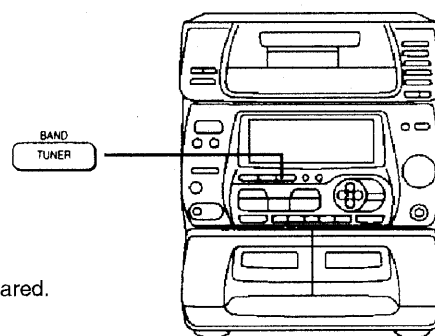
• MW ALLOCATION SETTING

By adjusting the allocation, you can enable this tuner to receive LW broadcasts allocated in 10 kHz steps.

1. Press and hold TUNER, BAND for approximately 5 seconds. The frequency display will be returned to the minimum frequency of the LW band and the display will begin to flash. Keep holding for approximately 5 more seconds.
2. When the display stops flashing, release TUNER, BAND. To return to the original frequency, repeat step 1 to 2.

Note

After changing the allocation setting, the frequencies you previously preset to the memory will be cleared.



< CASSETTE DECK SECTION >

- Measurement Condition
 - Reverse-mode selector switch :
 - Tape edit : NORMAL
 - Record timer : OFF
 - Dolby NR : OFF
 - Make sure head, capstan and pressure roller are clean.
 - Judgeable room temperature $20 \pm 5^{\circ}\text{C}$ ($68 \pm 9^{\circ}\text{F}$)
- Measuring instrument
 - EVM (Electronic Voltmeter)
 - Digital frequency counter
- Test tape
 - Head azimuth adjustment (8 kHz, -20 dB); QZZCFM
 - Tape speed adjustment (3 kHz, -10 dB); QZZCWAT
 - Playback gain adjustment (315 Hz, 0 dB); QZZCFM
 - Normal reference blank tape; QZZCRA
 - CrO₂ tape; QZZCRX

• Head Azimuth Adjustment (Deck 1/2)

Caution :

- Please replace both azimuth adjustment screws (RHE5152ZB) and springs (RMB0331) simultaneously when readjusting the head azimuth. (shown in Fig. 2)
- Even if you wish to readjust the head azimuth without replacing the screws and springs, a fine adjustment cannot be done because of the screw-locking bond adhered to the azimuth screw and spring.
- Please remove the screw-locking bond left on the head base when replacing the azimuth screw.
 - If you wish to readjust the head azimuth, be sure to adjust with adhering the cassette tape closely to the mechanism by pushing the center of cassette tape with your finger. (shown in Fig. 3)

1. Playback the azimuth adjustment portion (8 kHz, -20 dB) of the test tape (QZZCFM) in the forward play mode. Vary the azimuth adjusting screw until the output of the R-CH (PB OUT-R) are maximized.
2. Perform the same adjustment in the reverse play mode.
3. After the adjustment, apply screwlock to the azimuth adjusting screw.

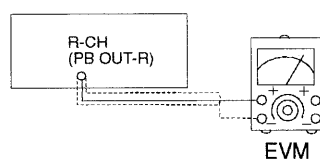


Fig. 1

- (RHE5152ZB)
- (RMB0331)

Fig. 2

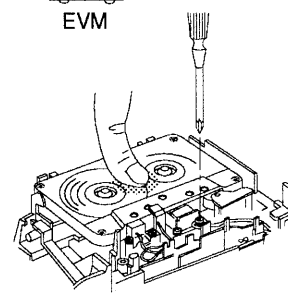


Fig. 3

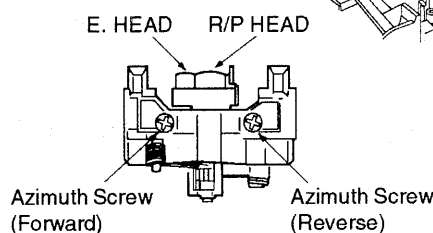


Fig. 4

• Tape Speed Adjustment (Deck 1/2)

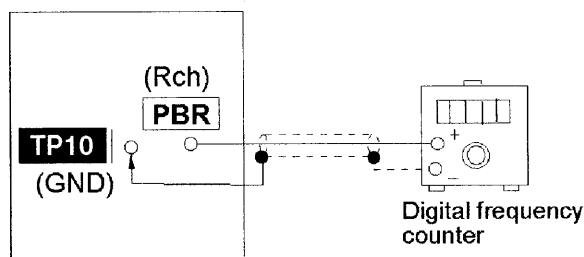
1. Set the tape edit button to "NORMAL" position.
2. Insert the test tape (QZZCWAT) to DECK 2 and playback (FWD side) the middle portion of it.
3. Adjust VR201 (DECK 2) for the output value shown below.

Adjustment target : 2980 ~ 3020 Hz (NORMAL speed)

4. After alignment, assure that the output frequency of the DECK 2 REV and DECK 1 FWD/REV are within ± 60 Hz of the value of the output frequency of DECK 2 FWD.
5. Set the tape edit button to "HIGH" position.
6. Short-circuit between TP200 and GND
7. Assure that the output from DECK 1/2 are within the standard value.

Standard value : 5000 ± 210 Hz (HIGH speed)

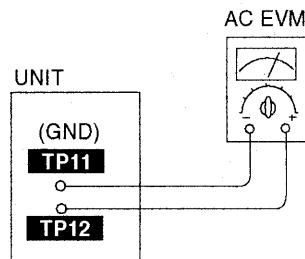
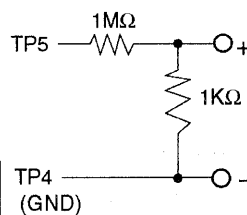
UNIT



• Bias and Erase Voltage Check

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

Bias voltage for Deck 2 (Standard value) : $19 \pm 4\text{mV}$ (Normal)
 $27 \pm 5\text{mV}$ (CrO₂)
Erase voltage for Deck 2 (Standard value) : more than 100mV (Normal)
more than 150mV (CrO₂)



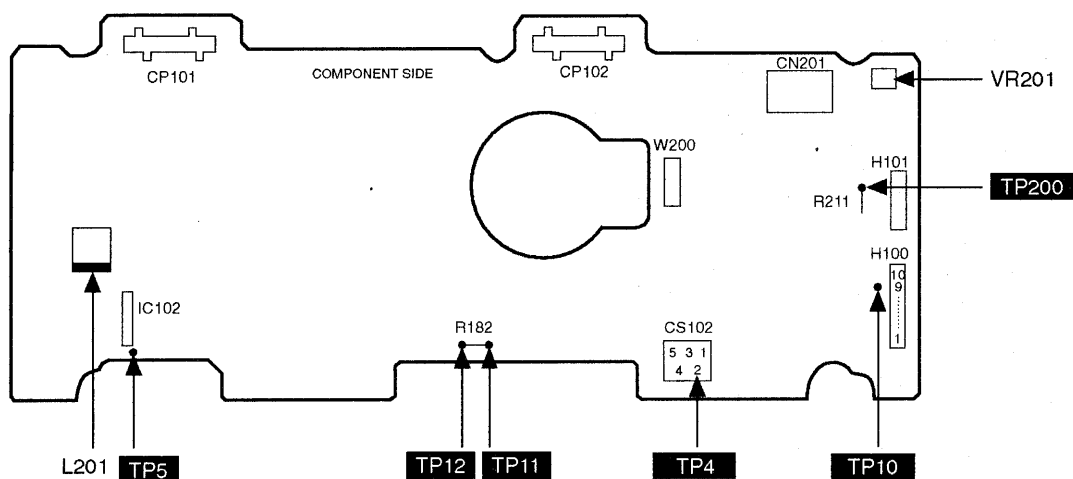
• Bias Frequency Adjustment (Deck 2)

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

Standard Value : $98 \pm 8 \text{ kHz}$

• Alignment Points

<Cassette Deck Section>



■ Terminal Function of ICs

• IC701 (AN8835SBE1) Servo Amplifier

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

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

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

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

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

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

Pin No.	Mark	I/O	Function
1	BCLK	O	Serial bit clock terminal (Not used, open)
2	LRCK	O	L/R discriminating signal (Not used, open)
3	SRDATA	O	Serial data (Not used, open)
4	DVDD1	I	Power supply (digital circuit) terminal
5	DVSS1	—	GND (digital circuit) terminal
6	TX	O	Digital audio interface signal
7	MCLK	I	Microprocessor command clock signal
8	MDATA	I	Microprocessor command data signal
9	MLD	I	Microprocessor command load signal
10	SENSE	O	Sense signal output (OFT, FESL, MAGEND, NAJEND, POSAD, SFG)
11	/FLOCK	O	Optical servo condition(focus)("L" : lead-in)
12	/TLOCK	O	Optical servo condition(tracking)("L" : lead-in)
13	BLKCK	O	Sub-code block clock (f=75Hz)
14	SQCK	I	External clock signal input for sub-code Q register.
15	SUBQ	O	Sub-code Q code output
16	DMUTE	I	Muting input ("H" : mute)
17	STAT	O	Status signal output (CRC, CUE, CLVS, TTSTVP, FCLV, SQCK)
18	/RST	I	Reset input
19	SMCK	O	1/2-divided clock signal of crystal oscillating at MSEL = "H" (fSMCK=8.4672MHz) 1/4-divided clock signal of crystal oscillating at MSEL="L" (fSMCK=4.2336MHz)
20	PMCK	O	1/192-divided clock signal of crystal oscillating (fPMCK=88.2kHz) (Not used, open)
21	TRV	O	Traverse servo control output
22	TVD	O	Traverse drive signal output
23	PC	O	Spindle motor ON signal output ("L" : ON)
24	ECM	O	Spindle motor drive signal output (forced mode output)
25	ECS	O	Spindle motor drive signal output (servo error signal output)
26	KICK	O	Kick pulse output
27	TRD	O	Tracking drive output
28	FOD	O	Focus drive output
29	VREF	I	D/A (drive) output (TVD, ECS, TRD, FOD, FBAL, TBAL) Reference voltage input.
30	FBAL	O	Focus balance adjustment output (Not used, open)
31	TBAL	O	Tracking balance adjustment output
32	FE	I	Focus error signal input (analog input)
33	TE	I	Tracking error signal input (analog input)
34	RFENV	I	RF envelope signal input
35	VDET	I	Vibration detection signal input ("H" : detection)

Pin No.	Mark	I/O	Function
36	OFT	I	Off-track signal input ("H" : off track)
37	TRCRS	I	Track cross signal input
38	/RFDET	I	RF detection signal input ("L" : detection)
39	BDO	I	Dropout signal input ("H" : Dropout)
40	LDON	O	Laser on signal output ("H" : ON)
41	TES	O	Tracking error shunt signal output ("H" : shunt)
42	PLAY	O	Play signal out ("H" : PLAY)
43	WVEL	O	Double speed status signal output ("H" : DS)
44	ARF	I	RF signal input
45	IREF	I	Reference current input
46	DRF	I	DSL bias (Not used, open)
47	DSLIF	I/O	DSL loop filter
48	PLLIF	I/O	PLL loop filter
49	VCOF	I/O	VCO loop filter (Not used, open)
50	AVDD2	I	Power supply input (for analog circuit)
51	AVSS2	—	GND (for analog circuit)
52	EFM	O	EFM signal output (Not used, open)
53	PCK	O	PLL extraction clock output (Not used, open) (fPCK=4.321 MHz during normal playback)
54	PDO	O	Phase comparison signal of EFM and PCK signals (Not used, open)
55	SUBC	O	Sub-code serial data output (Not used, open)
56	SBCK	I	Sub-code frame clock signal output (fCLDCK=7.35kHz during normal playback)
57	VSS	—	GND
58	X1	I	Crystal oscillating circuit input (f=16.9344MHz)
59	X2	O	Crystal oscillating circuit output (f=16.9344MHz)
60	VDD	I	Power supply input (for oscillating circuit)
61	BYTCK	O	Byte clock output (Not used, open)
62	/CLDCK	O	Clock input for sub-code serial data (Not used, open)
63	FCLK	O	Crystal frame clock signal output (fCLK=7.35kHz, double=14.7kHz)
64	PFLAG	O	Interpolation flag output ("H" : interpolation) (Not used, open)
65	FLAG	O	Flag output (Not used, open)
66	CLVS	O	Spindle servo phase synchronizing signal output ("H" : CLV, "L" : rough servo) (Not used, open)
67	CRC	O	Sub-code CRC checked output ("H" : OK, "L" : NG) (Not used, open)
68	DEMPH	O	De-emphasis ON signal output ("H" : ON) (Not used, open)
69	RESY	O	Frame resynchronizing signal output (Not used, open)
70	/RST2	I	Reset input through MASH circuit ("L" : Reset)
71	/TEST	I	Test input

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

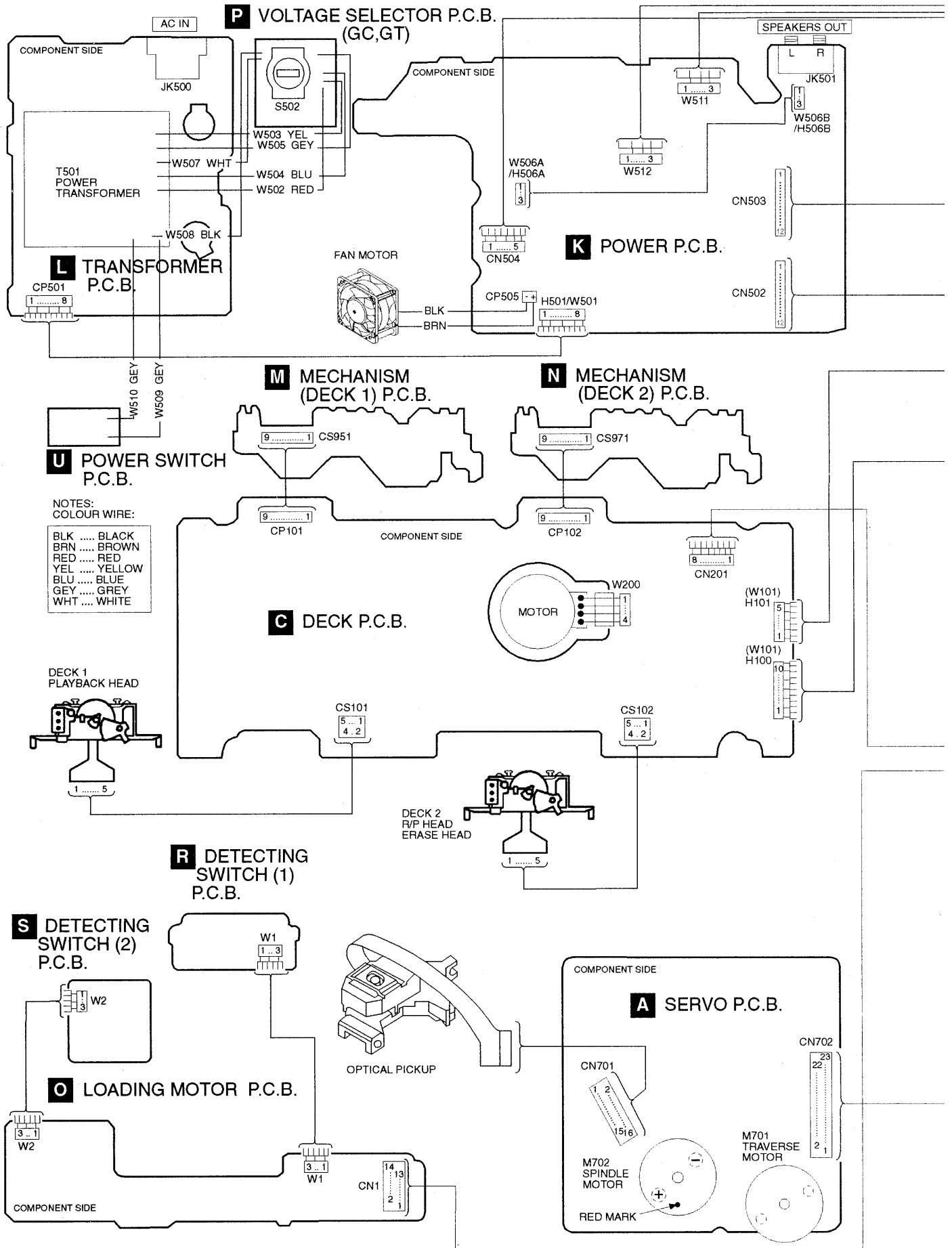
Pin No.	Mark	I/O	Function
			"L" : 16.9344MHz "H" : 33.8688MHz
78	PSEL	I	Test input (normally "L") (Not used, open)
79	MSEL	I	Output mode switching of SUBQ terminal ("H" : Q code buffer mode)
80	SSEL	I	Output frequency switching for SMCK terminal "H" : SMCK=8.4672MHz "L" : MCK=4.2336MHz (Not used, open)

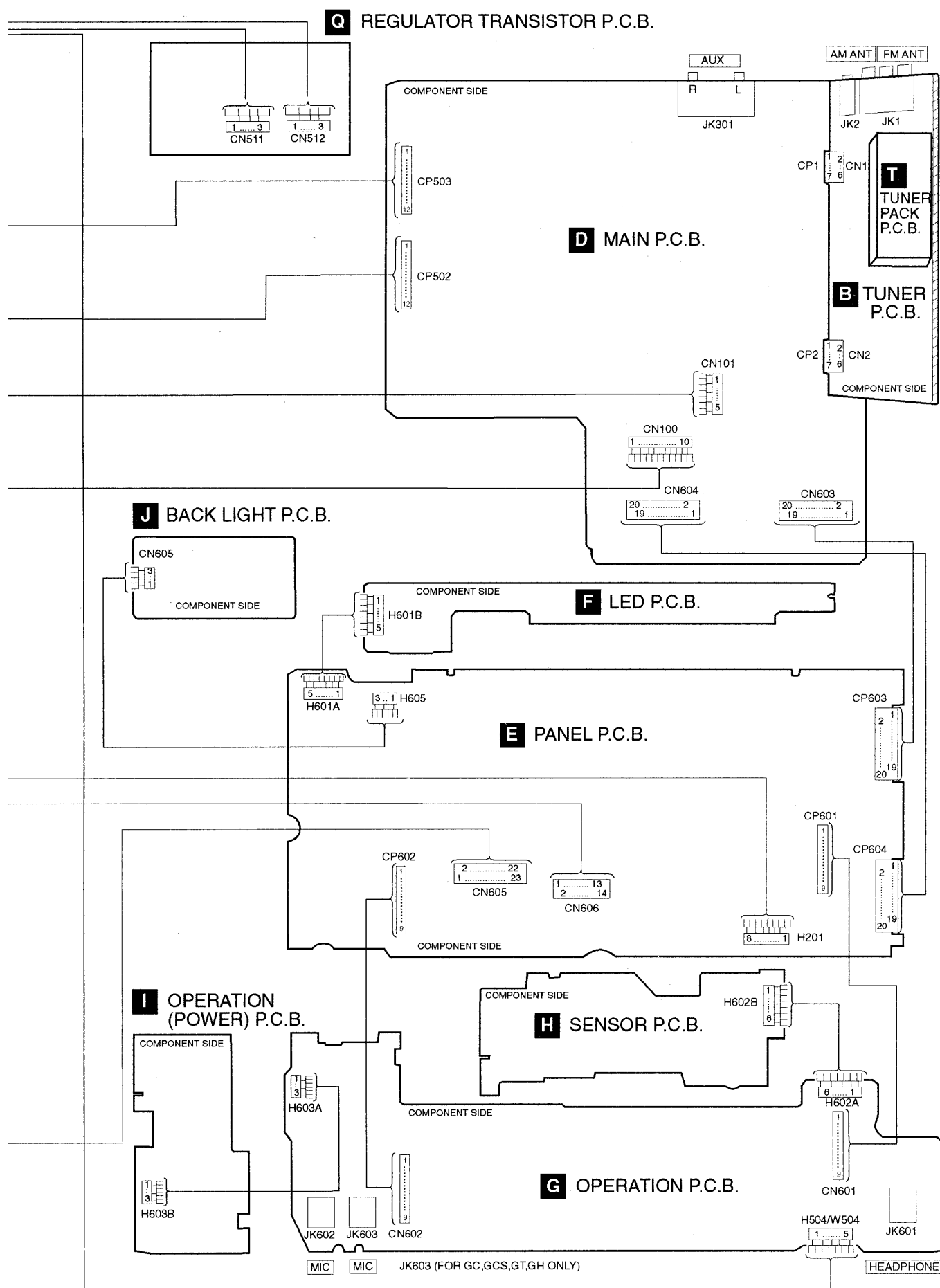
• IC601 (M38197MA136F) System Microprocessor

Pin No.	Mark	I/O	Function
1	DECK 2	I	Mecha condition input (PLAY, FF/RW, MOTOR)
2	DECK 1	I	Mecha condition input (PLAY, FF/RW, MOTOR)
3	TPS	I	TPS input
4	CRT	—	CR timer
5	KEY 4	I	Key 4 input
6	KEY 3	I	Key 3 input
7	KEY 2	I	Key 2 input
8	KEY 1	I	Key 1 input
9	SER 1	O	LED drive clock output
10	VOL OUT	O	Volume control DA output
11	SER 2	O	LED drive data output
12	SER 3	O	LED drive data output
13	SER 4	O	Key control clock output
14	SER 5	O	Key control strobe output
15	SPEANA INPUT	I	Spectrum analyser input
16	CHG SW1	I	CD changer SW input (STK_SW, TUP_SW)
17	CHG SW2	I	CD changer SW input (DR0_SW, PLY_SW, TNO_SW)
18	CDRST	I	CD reset input
19	STATUS	I	CD signal processor status input
20	SQCK	O	CD subcode clock output
21	NC	—	No connection
22	SUBQ	I	CD subcode data input
23	TLOCK	I	CD tracking lock input
24	FLOCK	I	CD focus lock input
25	SENSE	I	CD servo processor sense input
26	MLD/ PLLCE	O	CD command load output
27	MDATA/ PLLDATA	O	CD command data output
28	MCLK/ PLLCLK	O	CD command clock output
29	RESTSW	I	CD REST detect SW input

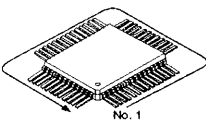
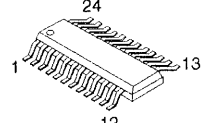
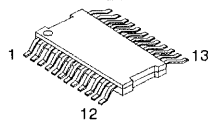
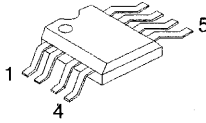
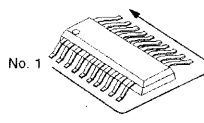
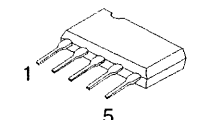
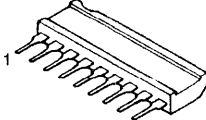
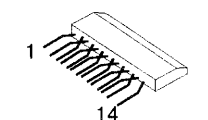
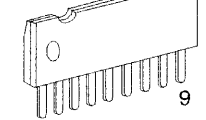
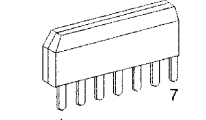
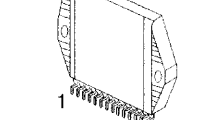
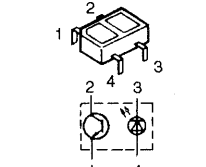
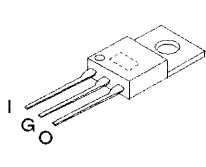
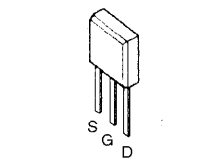
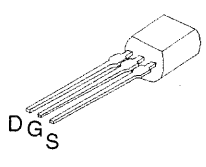
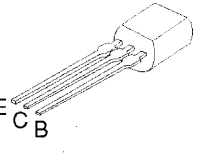
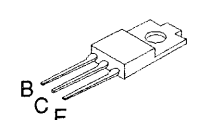
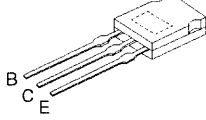
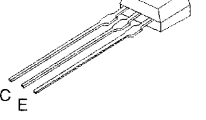
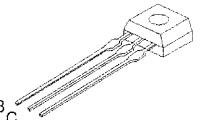
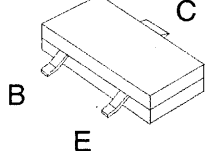
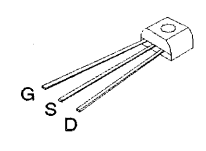
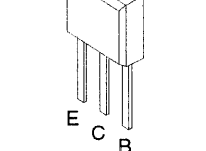
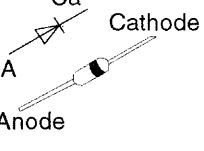
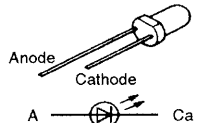
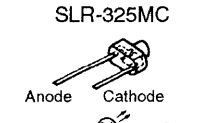
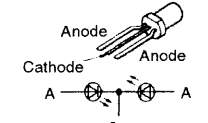
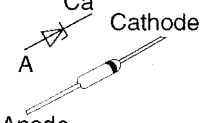
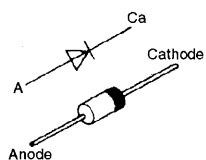
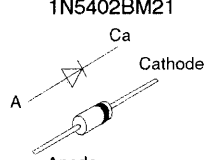
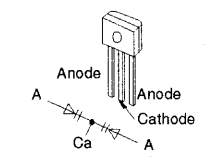
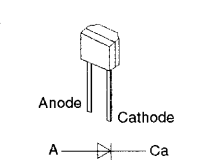
Pin No.	Mark	I/O	Function
30	BLKCK	I	CD block clock input
31	RMT	I	Remote control signal input
32	DCDET	I	DC detect input
33	P.CONT	O	Power control output
34	/HALT	I	AC failure detect input
35	/RESET	I	RESET input
36	XCIN	I	X'tal oscillator (f = 32.768 kHz sub clock)
37	XCOUT	O	X'tal oscillator (f = 32.768 kHz sub clock)
38	XIN	I	X'tal oscillator (f = 6.0 MHz Main clock)
39	XOUT	O	X'tal oscillator (f = 6.0 MHz Main clock)
40	VSS	—	Ground (0V)
41	MBP1	O	MPU beat proof output 1
42	MBP2	O	MPU beat proof output 2
43	CDGMUTE	—	No connection
44	/CDGRESET	—	No connection
45	CD DMUTE	O	CD digital mute output
46	SPE CONT A	O	Space control A
47	SPE CONT B	O	Space control B
48	SPE CONT C	O	Space control C
49-64	GRD16-GRD1	O	FL digit (grid) drive signal output
65-88	AND1-AND24	O	FL segment (anode) drive output
89	JOG A	I	Jog dial signal input A
90	JOG B	I	Jog dial signal input B
91	VCC	I	Power supply (+5V)
92	REGION IN	I	Area setting terminal
93	MKCLK	O	Cassette deck control clock signal output
94	MKDATA	O	Cassette deck control data output
95	SD IN	I	Tuner signal DET input
96	STEREO IN	I	Tuner stereo DET input
97	DO IN	I	Tuner PLL if data input
98	VP	I	Power input (-30V)
99	VSS	—	Ground (0V)
100	VREF	I	Reference for A-D

Wiring Connection Diagram

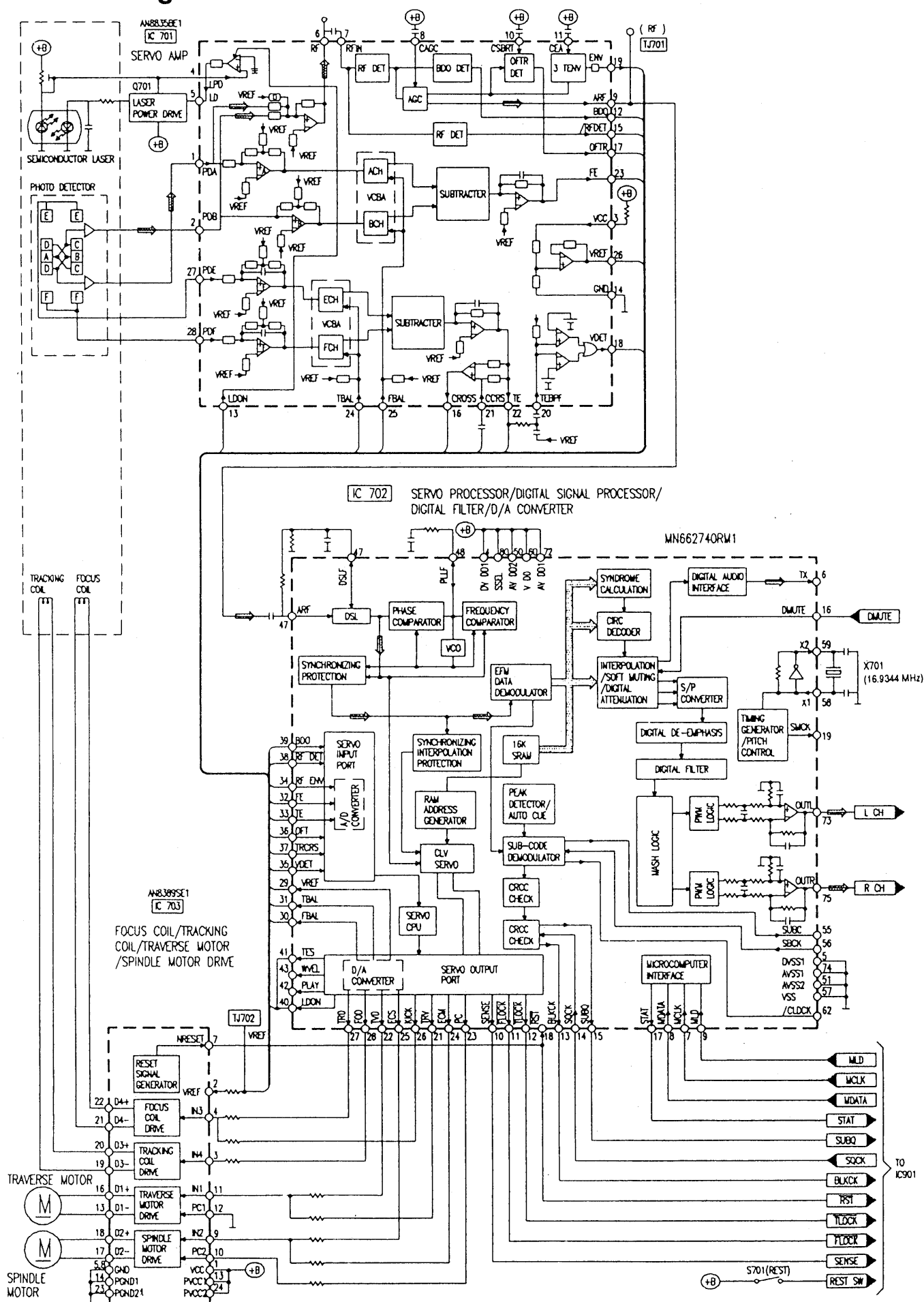


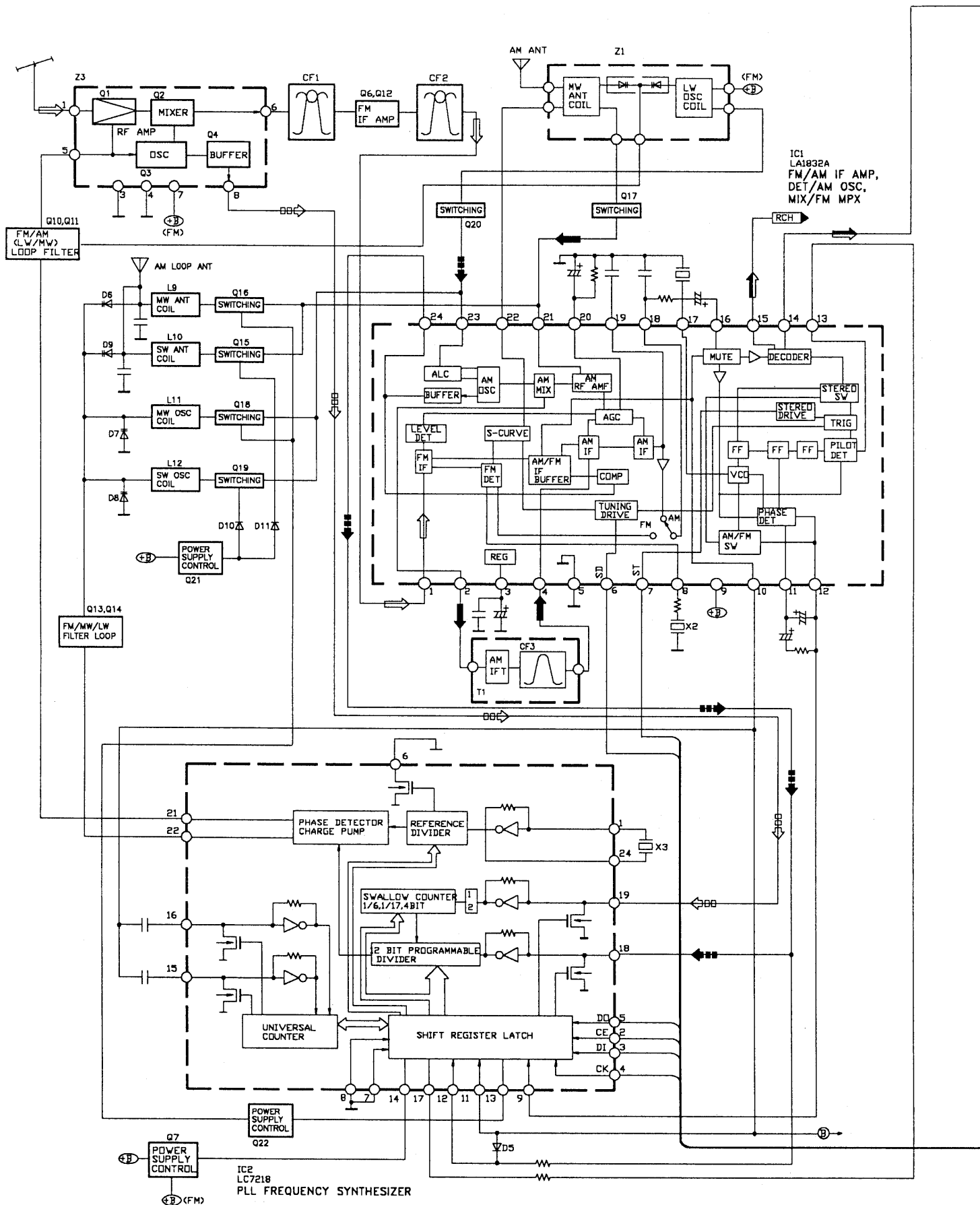


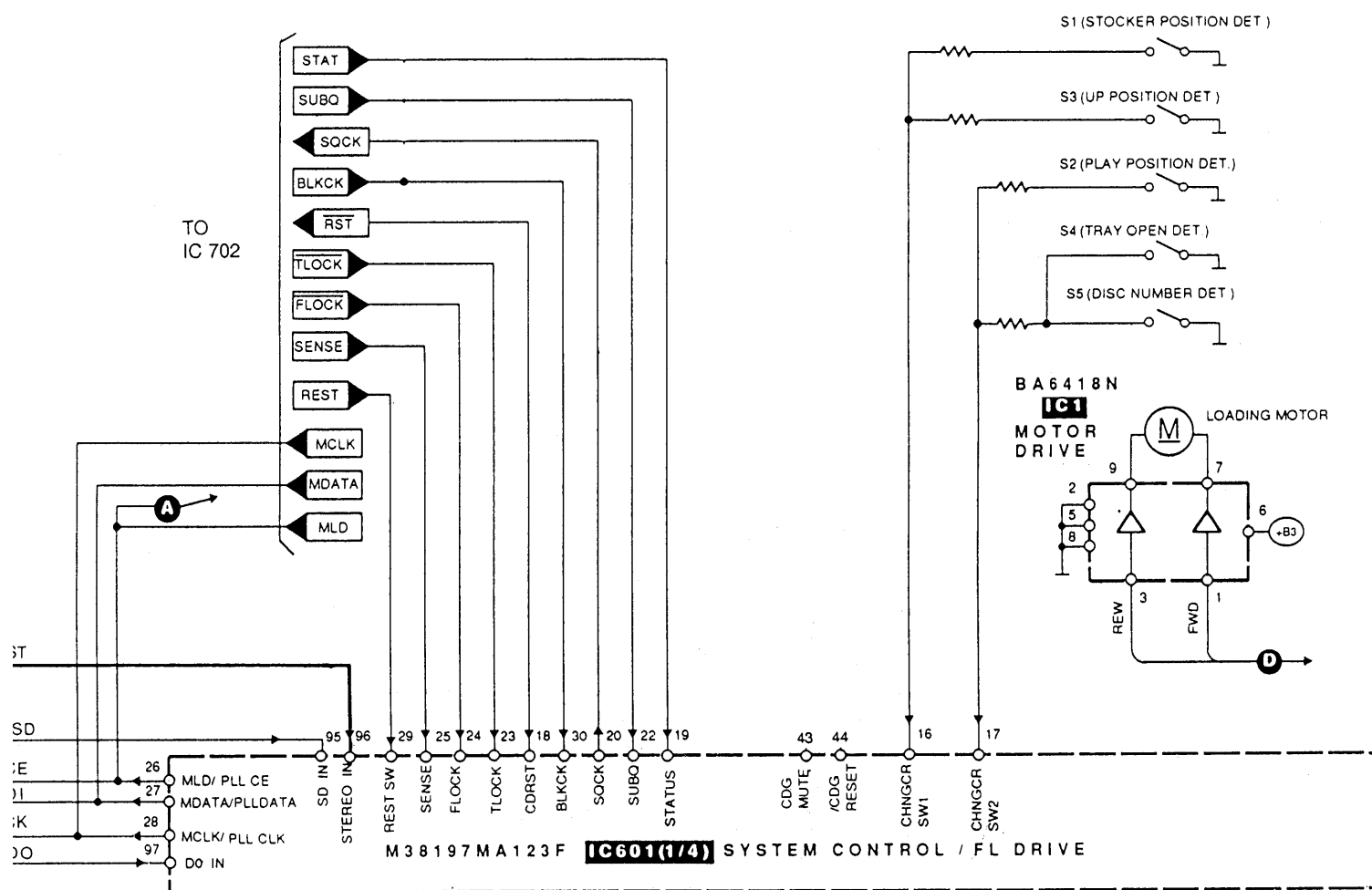
■ Terminal Guide of ICs, Transistors and Diodes

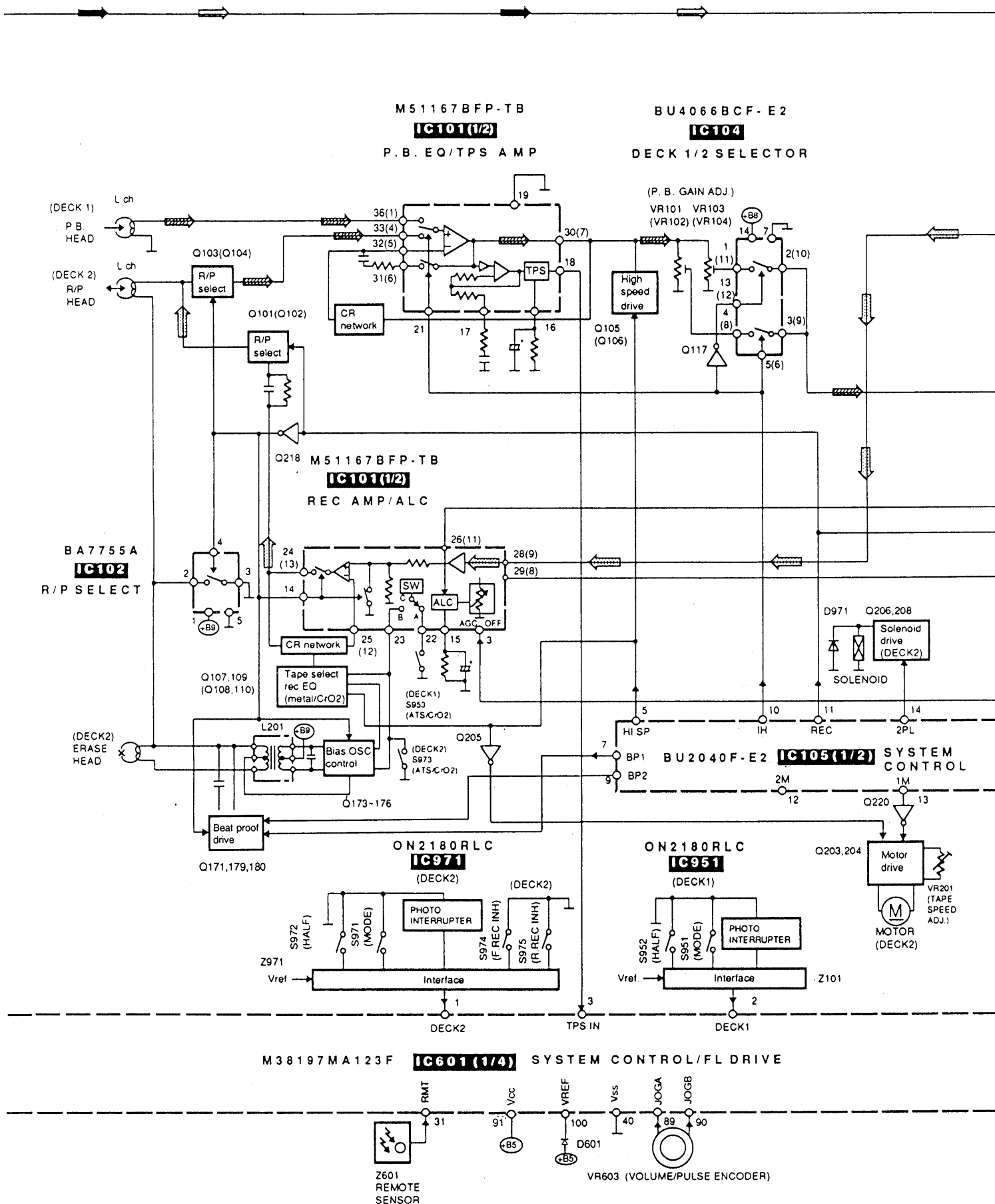
M38197MA136F(100P) MN662741RPA(80P) 	LA1832A LC7218 	AN8389SE1 	BA4558FDXE2 	BA3835F-E1(18P) M65843FPE1(24P) AN8835SBE1 (28P) BU2040F-E2 (16P) BU2090F-E2 (16P) BU4052BCF-E2 (16P) BU4066BCF-E2 (14P) CXA1102M-T4 (16P) 	
BA7755A 	DAP803 	M51131L-702 	BA6418N 	TA2011S 	RSN3404 
0N2180RLC 	LM2940T5M 	2SJ164QRTA 	2SK301QTA 	2SA952LTA 2SB621ARTA 2SB621RTA 2SC2001KTA 2SD1302STA 2SD965RTA 	
2SD1762E 	2SD2037ETA 	2SA933SSTA 2SC1740SLNET 2SC1740SSTA RVTDTA143XST 		2SC2786MTA 2SC2787L1TA 2SC2785FETA 2SC2785FTA 2SC2787LTA 2SD1020HTA BA1A4ZTA BA1F4MTA 	
2SB709S 	2SK544F-AC 	2SC2784FTA 2SD1450STA BA1L4MTA BA1L4ZTA BN1A4MTA 		1SS254TA 1SS291TA MA165TA MA167TA MA700ATA RVD1SS133TA 	
SLR325DCT31 	SLR342DCTB7 SLR342MCTB7 SLR-325MC 	SPR505MDTT 	MTZJ11CTA MTZJ12BTA MTZJ13ATA MTZJ15BTA MTZJ15CTA MTZJ20CTA MTZJ33CTA MTZJ3R6BTA 		MTZJ4R7BTA MTZJ5R1BTA MTZJ5R1CTA MTZJ5R6BTA MTZJ6R8BTA MTZJ6R8CTA MTZJ7R5CTA MTZJ8R2BTA 
RL1N4003N02 	1D3E 1N5402BM21 	SVC211SPA-AL 	RVDSVC321 		

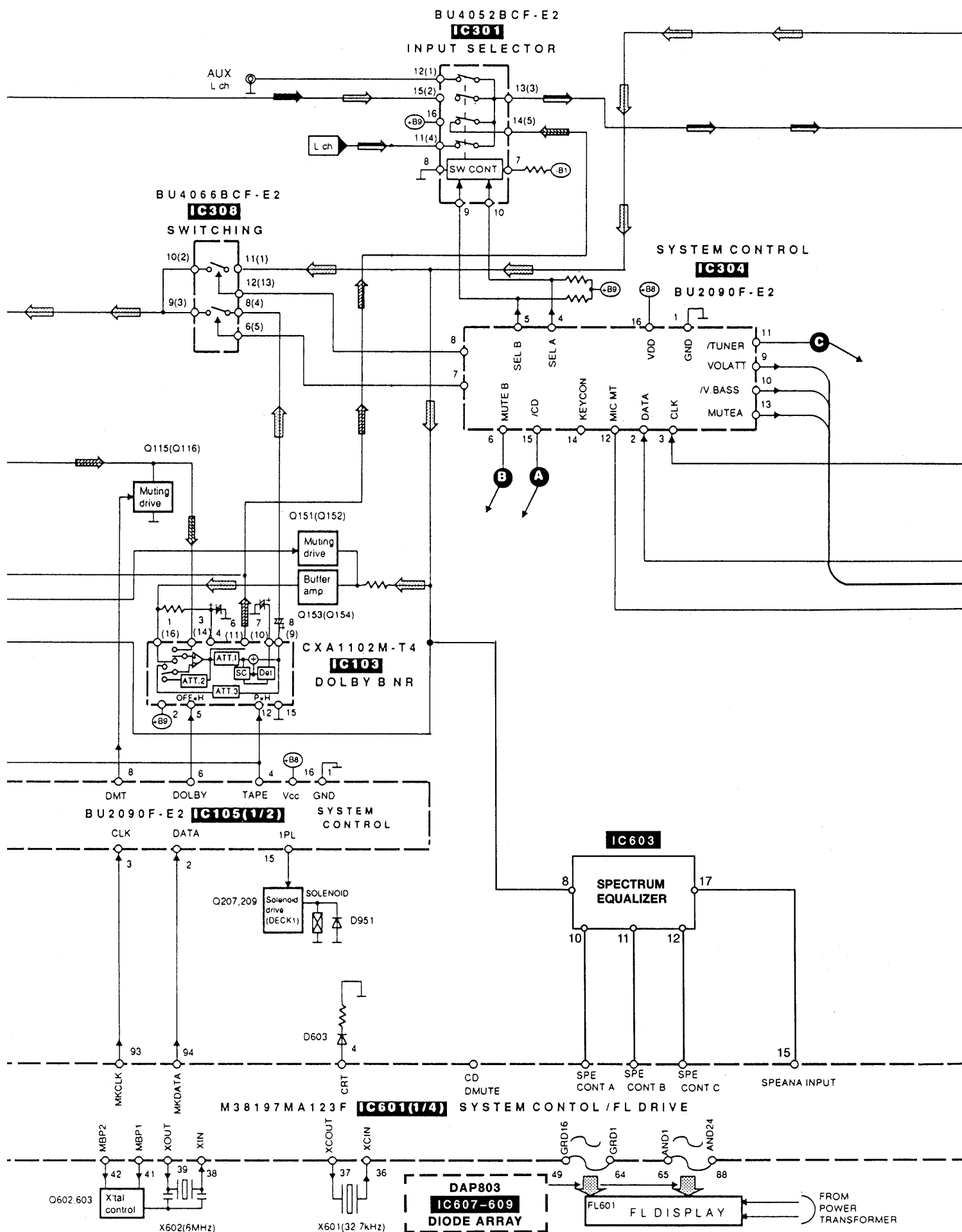
■ Block Diagram

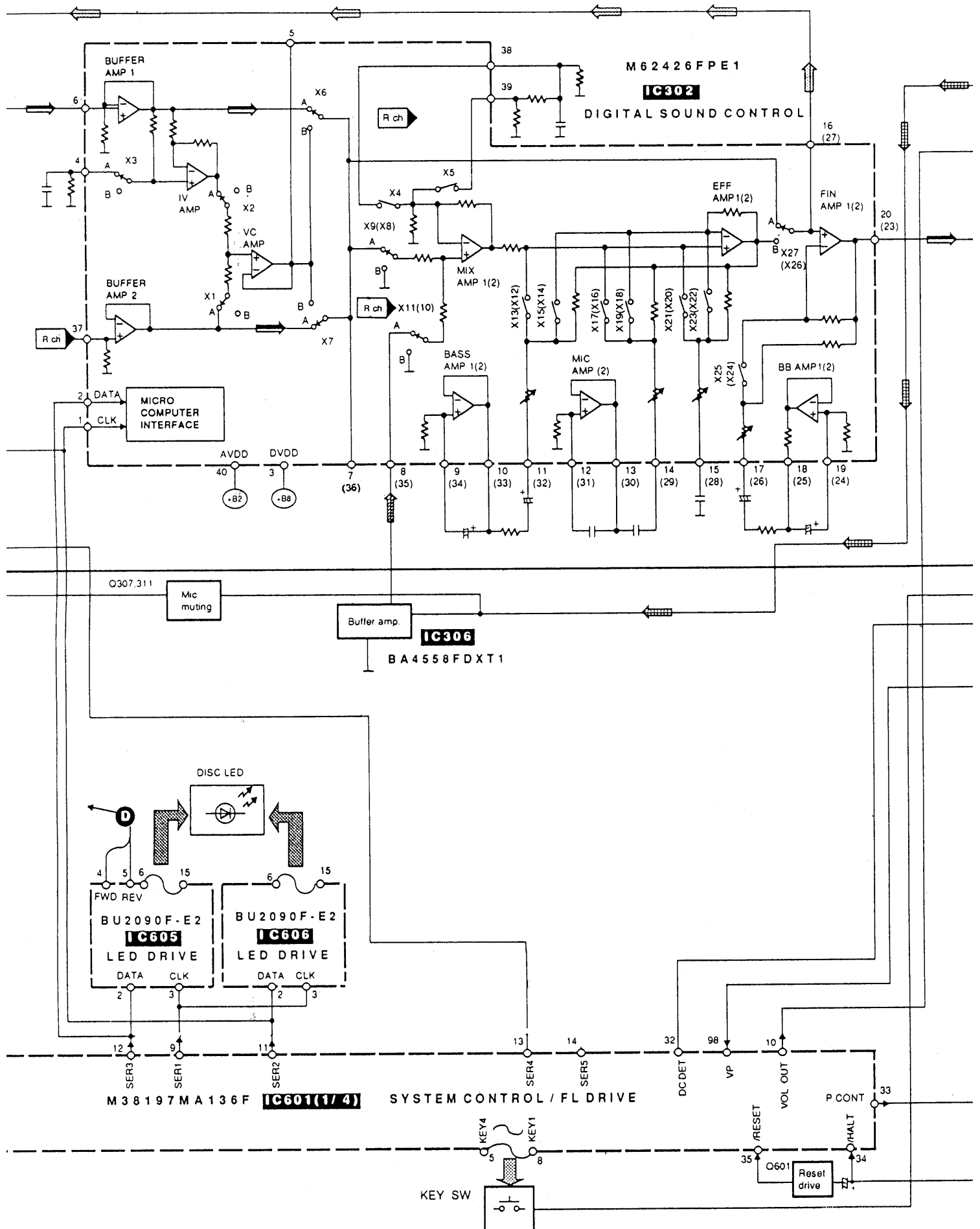


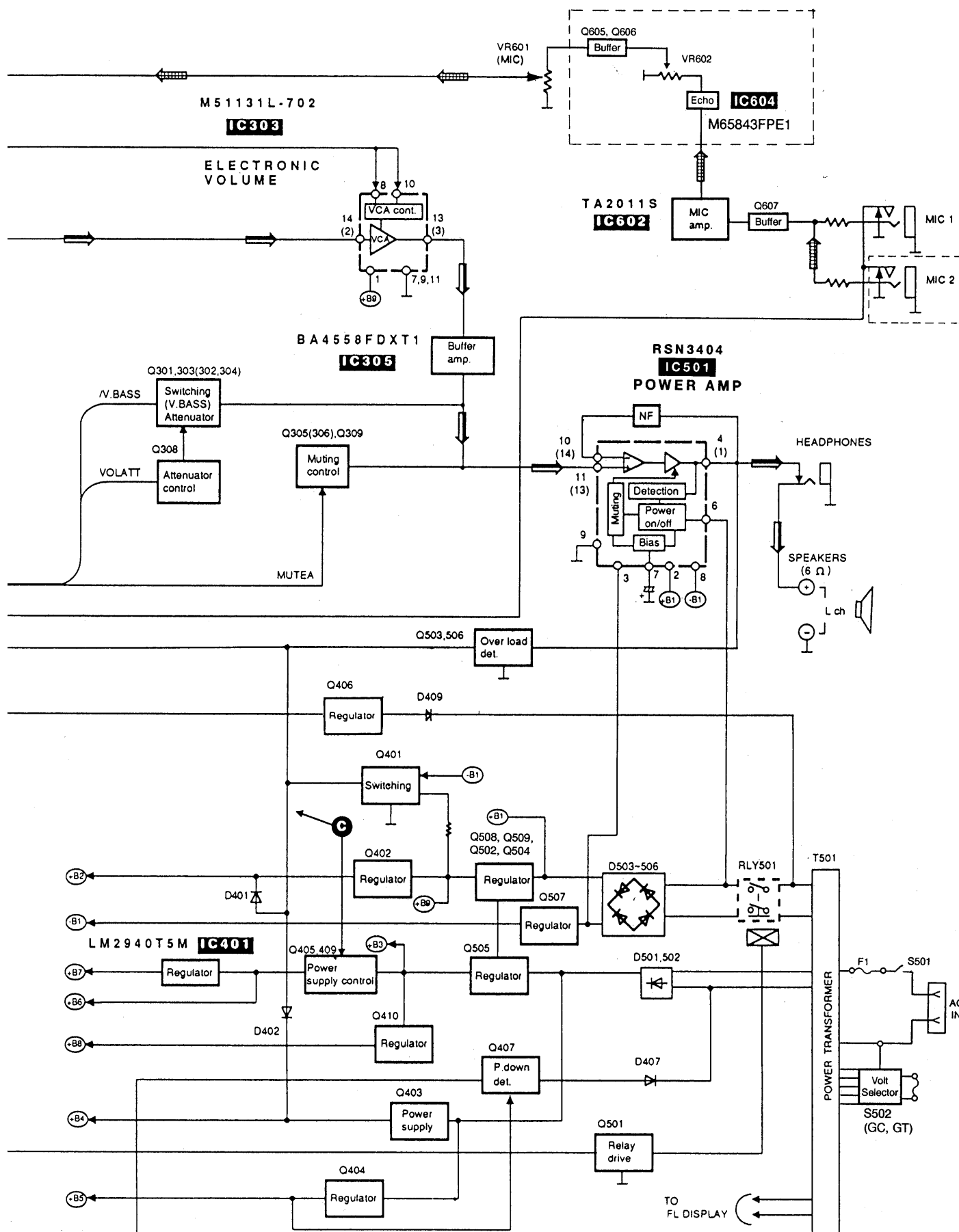






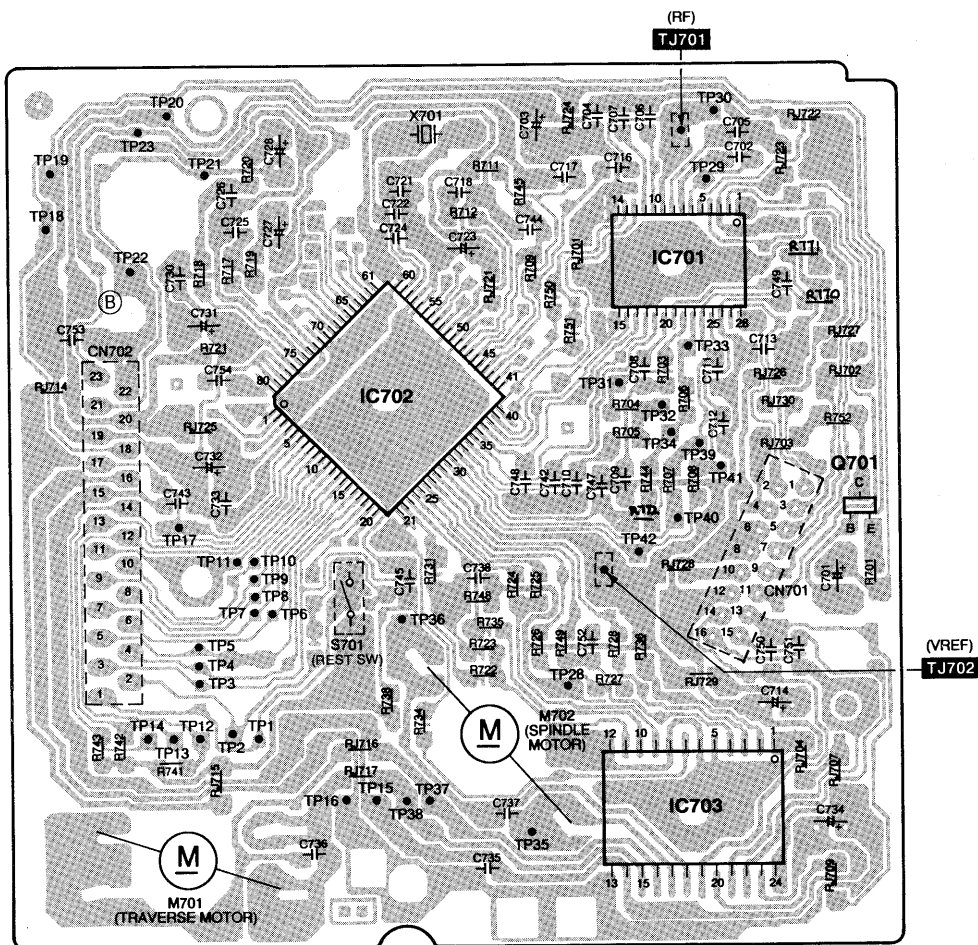




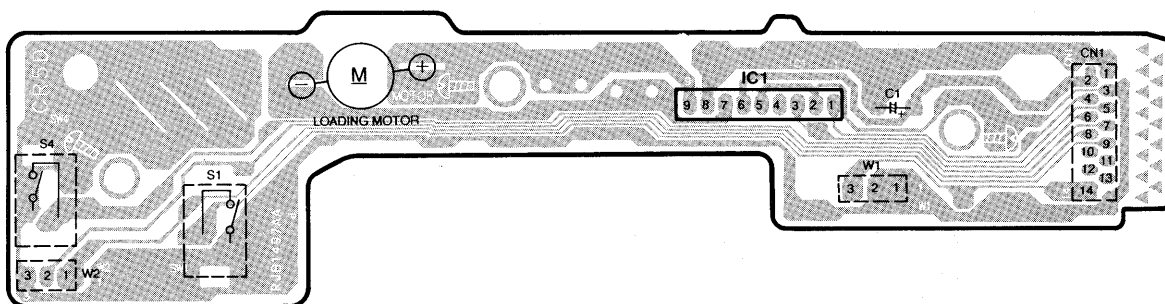


■ Printed Circuit Board

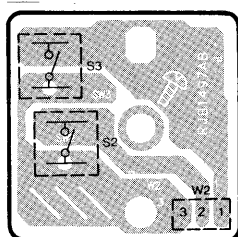
A SERVO P.C.B. (REPX0109)



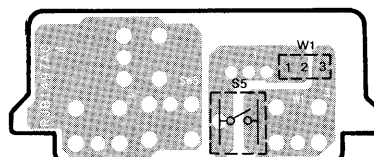
O LOADING MOTOR P.C.B. (REP2182A-N)

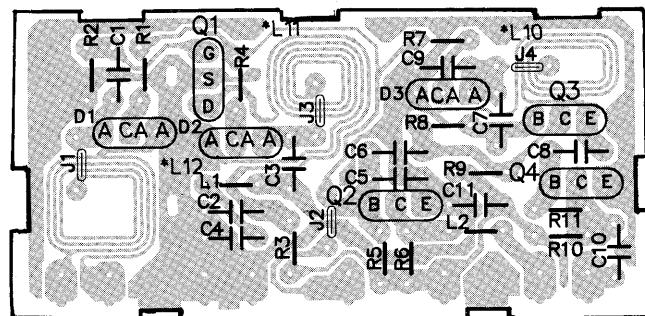
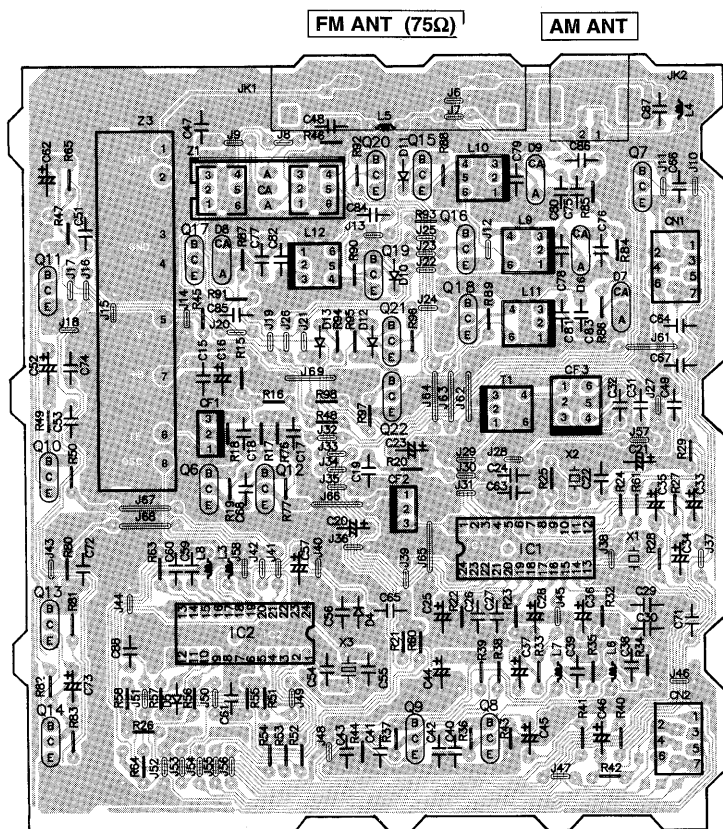
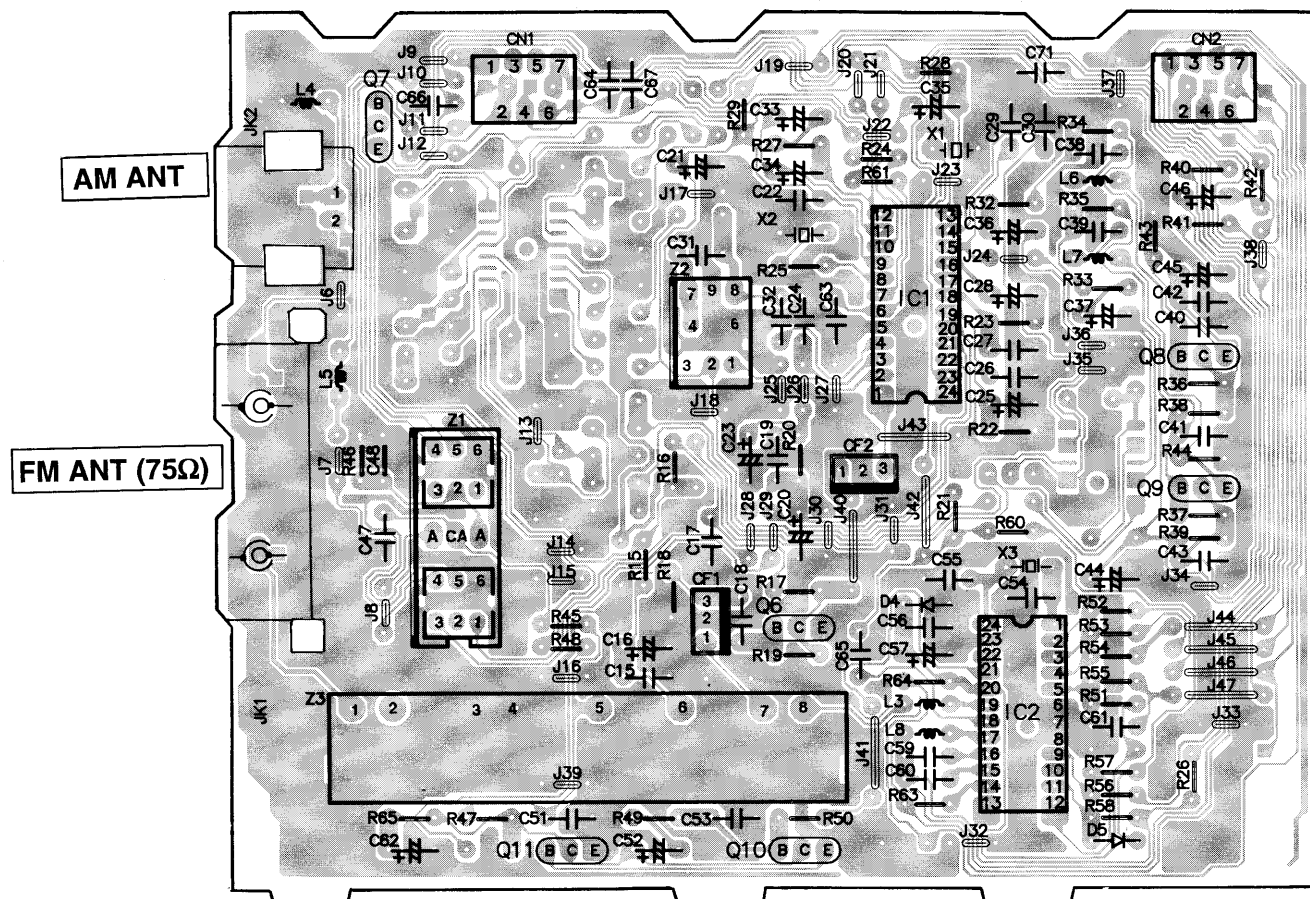


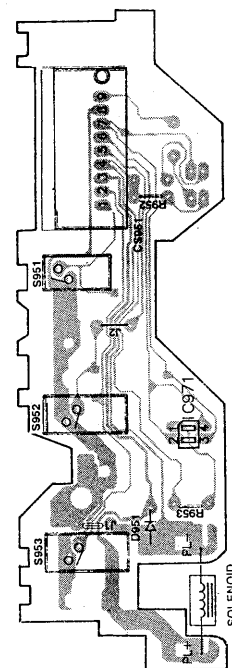
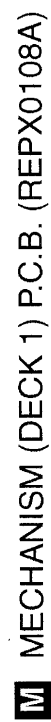
S DETECTING SWITCH (2) P.C.B. (REP2182A-N)



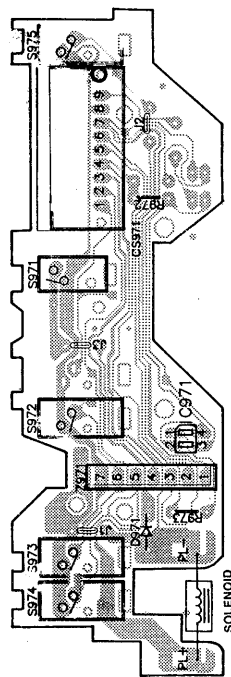
R DETECTING SWITCH (1) P.C.B. (REP2182A-N)

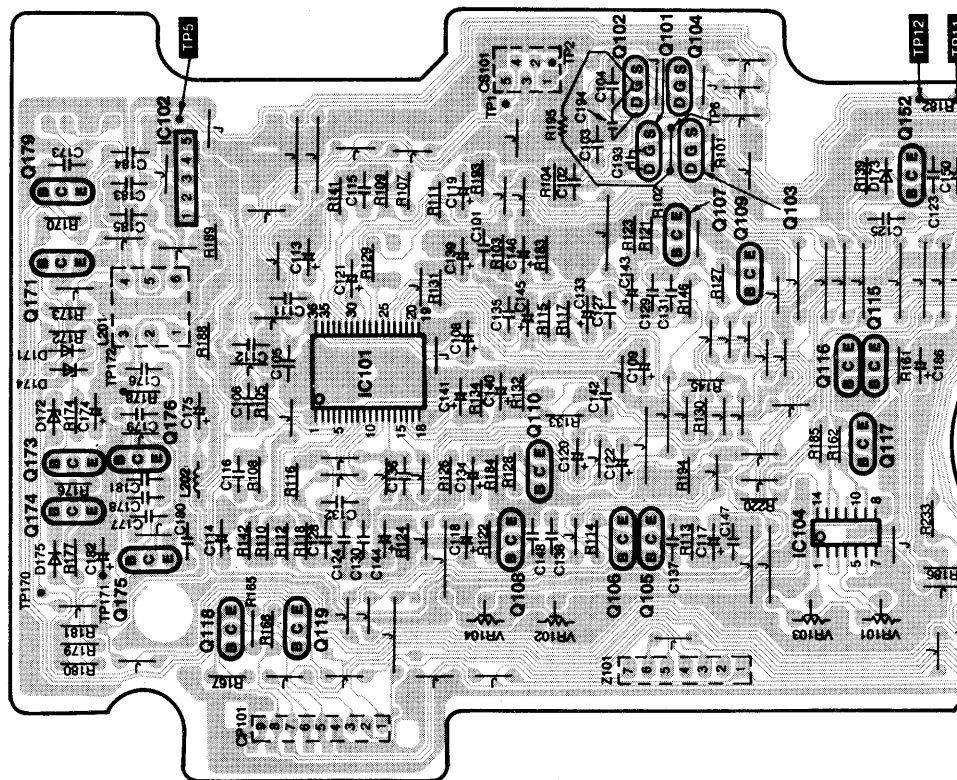
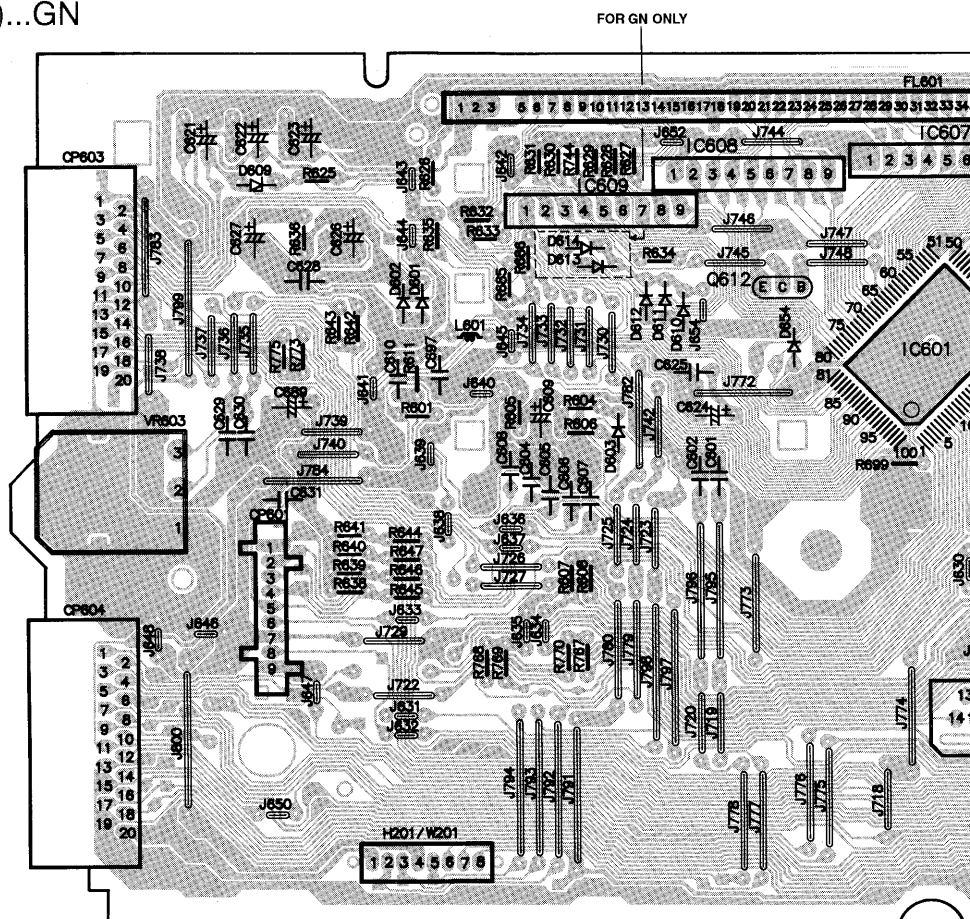


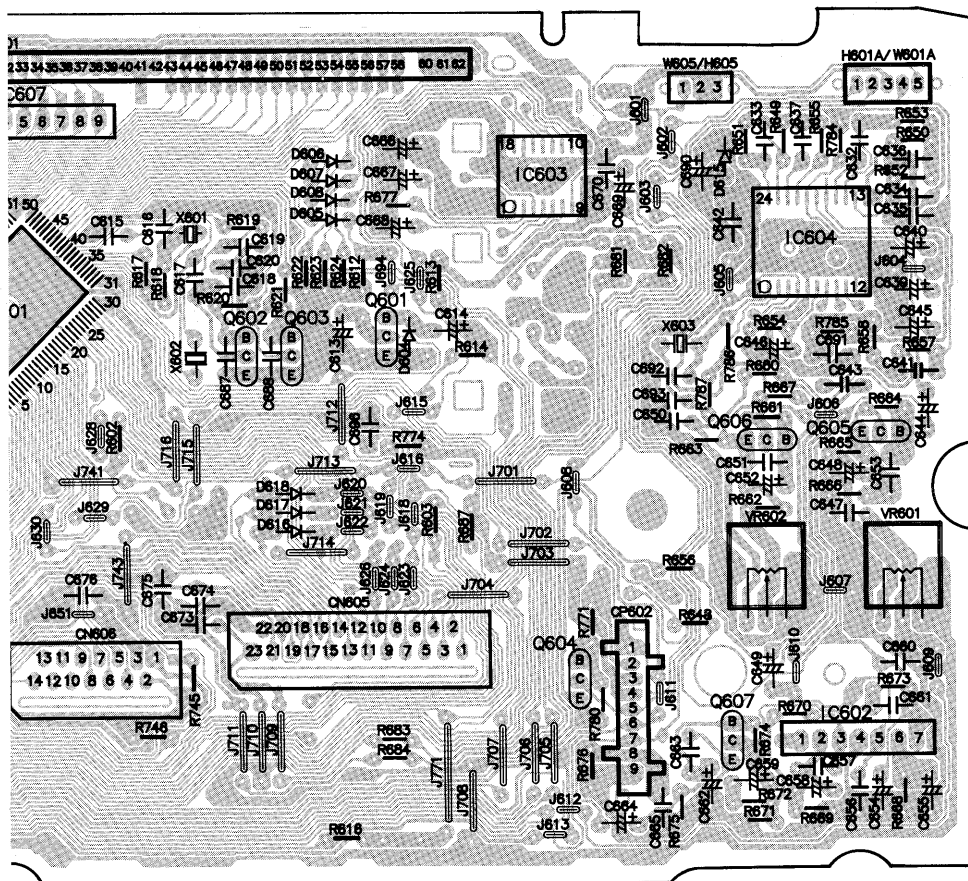
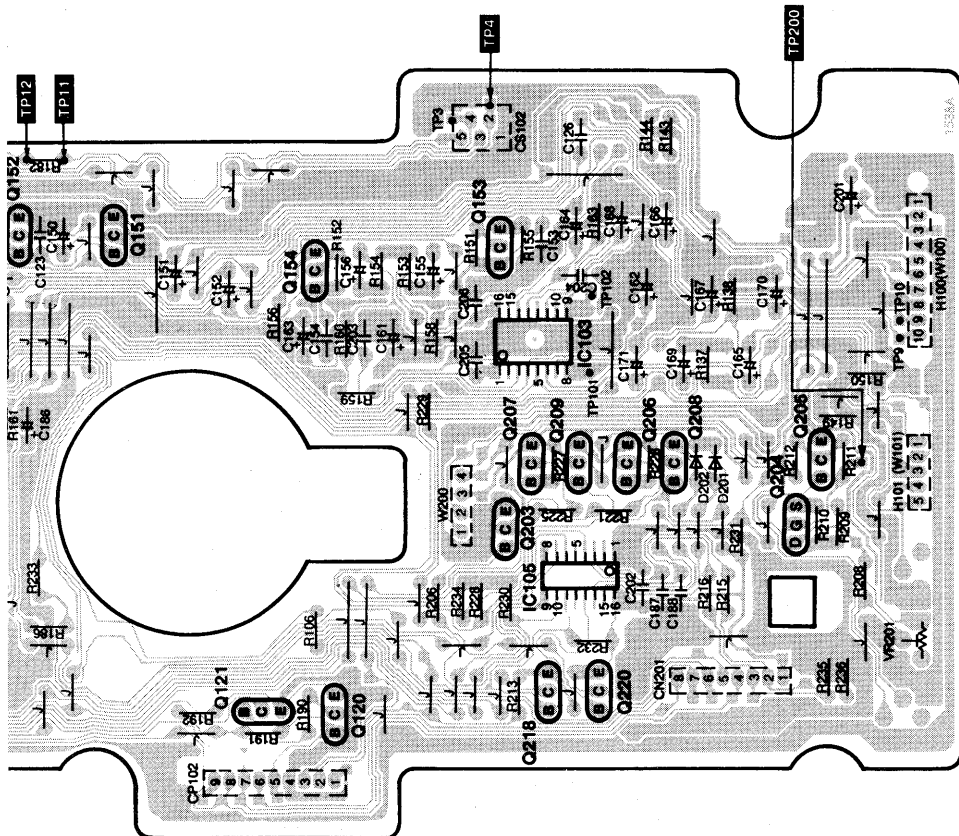
B TUNER P.C.B. (REP2000F)...GC,GT,GCS**T** TUNER PACK P.C.B. (REP1999B)**B** TUNER P.C.B. (REP2000D)...GN



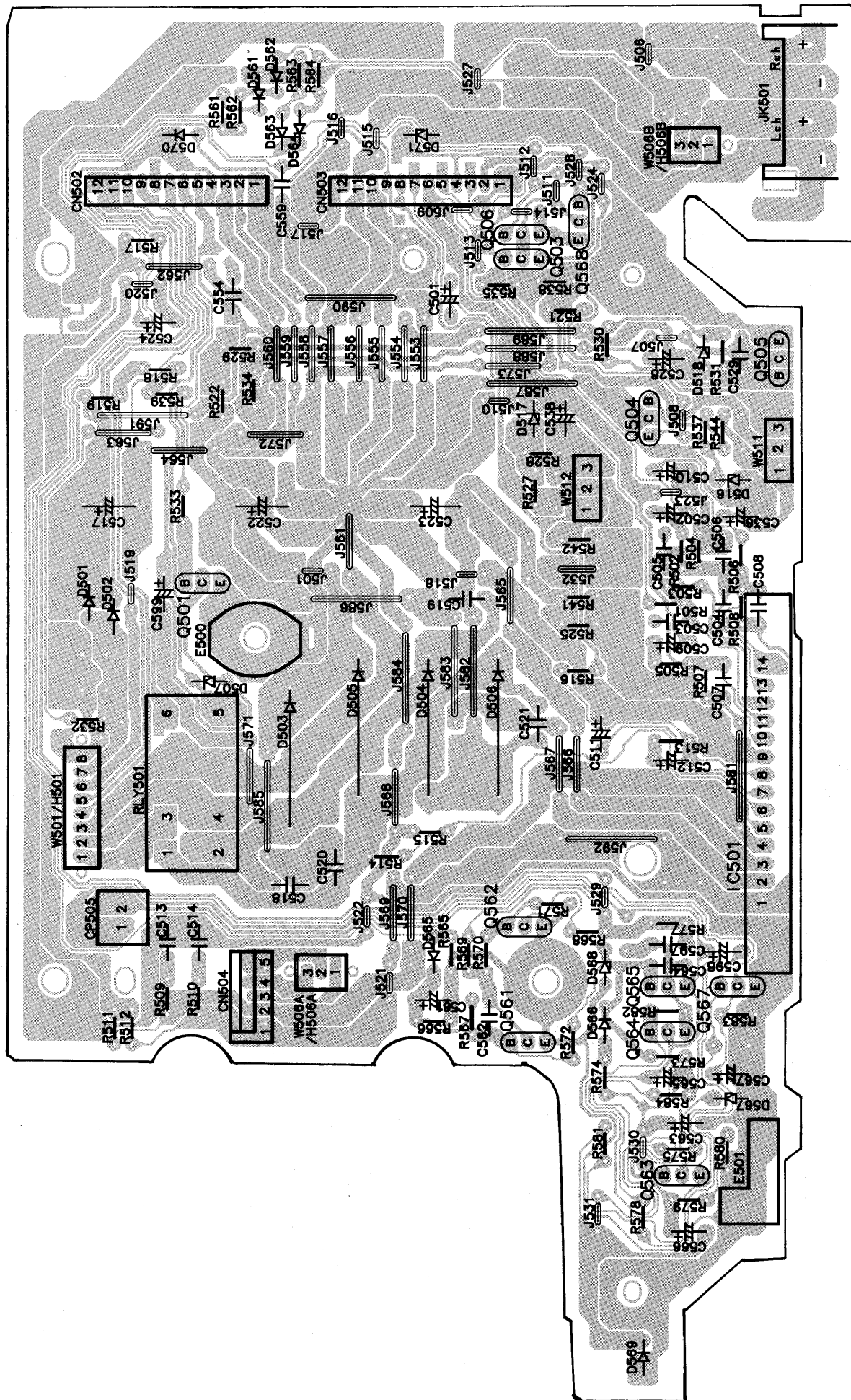
N MECHANISM (DECK 2) P.C.B. (REPX0108)



C DECK P.C.B. (REP2200B)**E** PANEL P.C.B. (REP2199H)...GC,GT,GCS
(REP2199J)...GN



K POWER P.C.B. (REP2197J)...GC,GT
(REP2197L)...GCS
(REP2197M)...GN

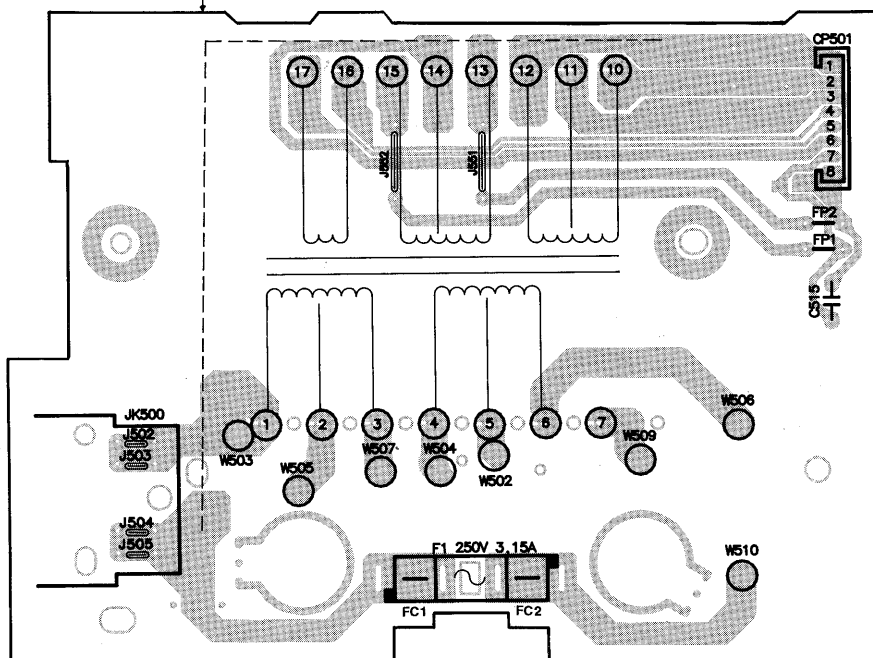


SPEAKERS

L TRANSFORMER P.C.B. (REP2197J)...GC,GT

CAUTION
RISK OF ELECTRIC SHOCK
AC voltage line. Please do not
touch this pcb.

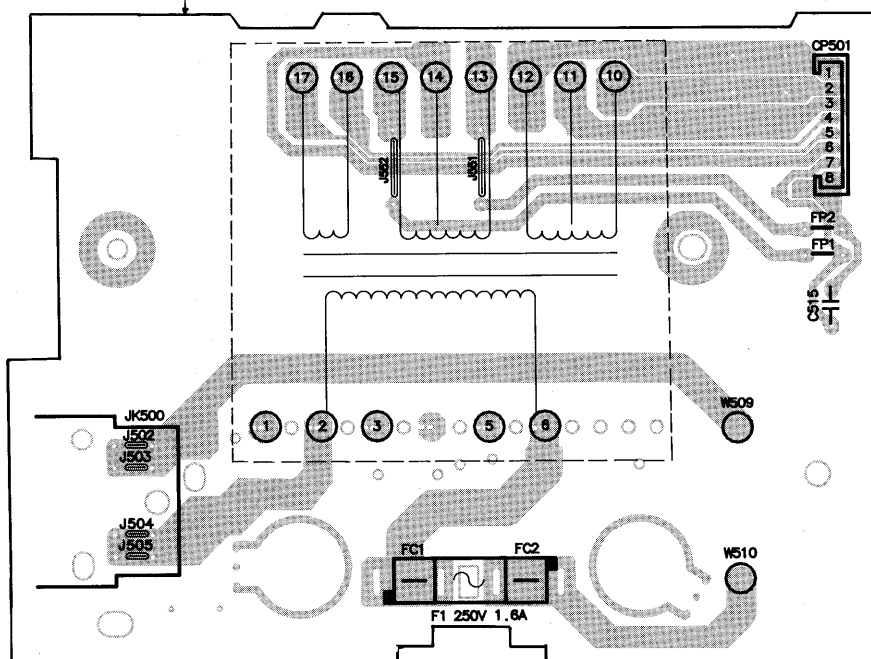
AC IN ~
110V-127V
220V-240V
...GC/GT
50/60Hz



L TRANSFORMER P.C.B. (REP2197L)...GCS

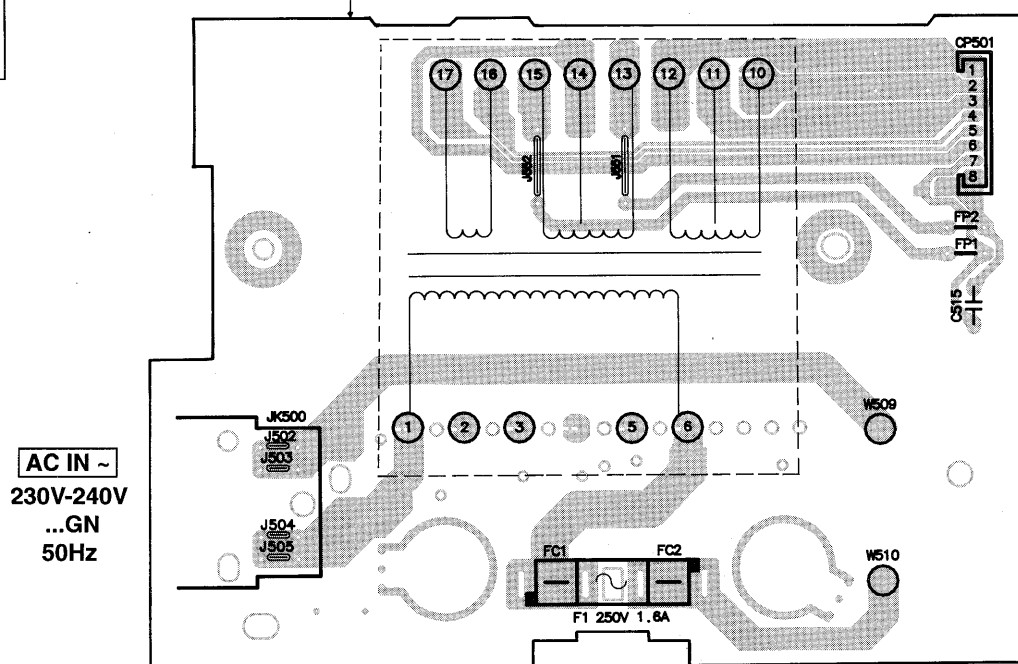
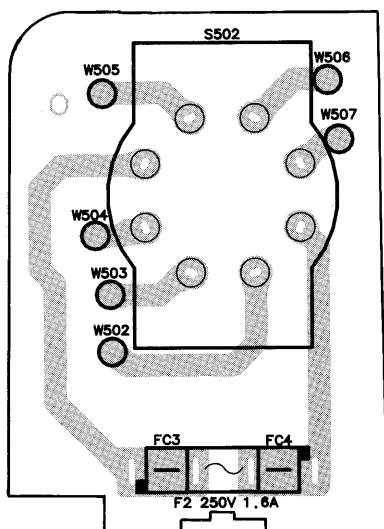
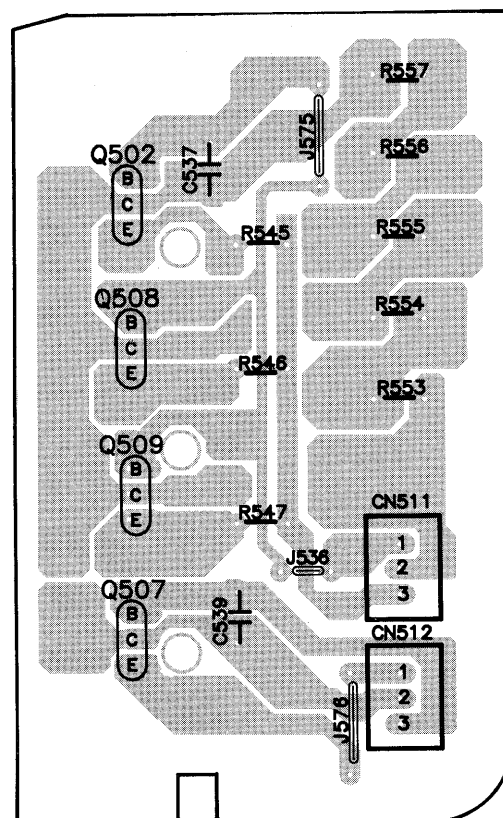
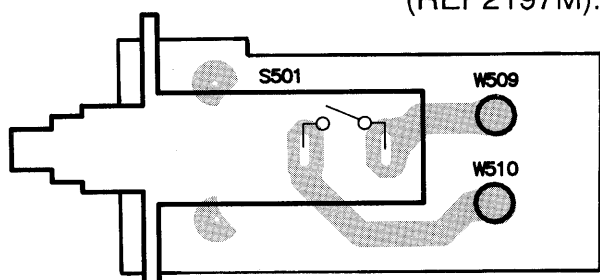
CAUTION
RISK OF ELECTRIC SHOCK
AC voltage line. Please do not
touch this pcb.

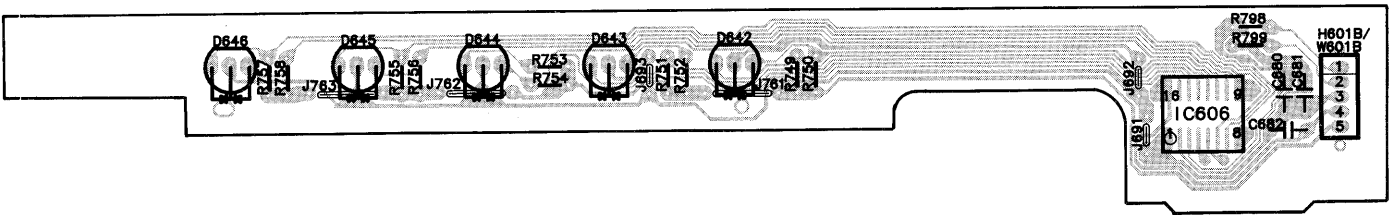
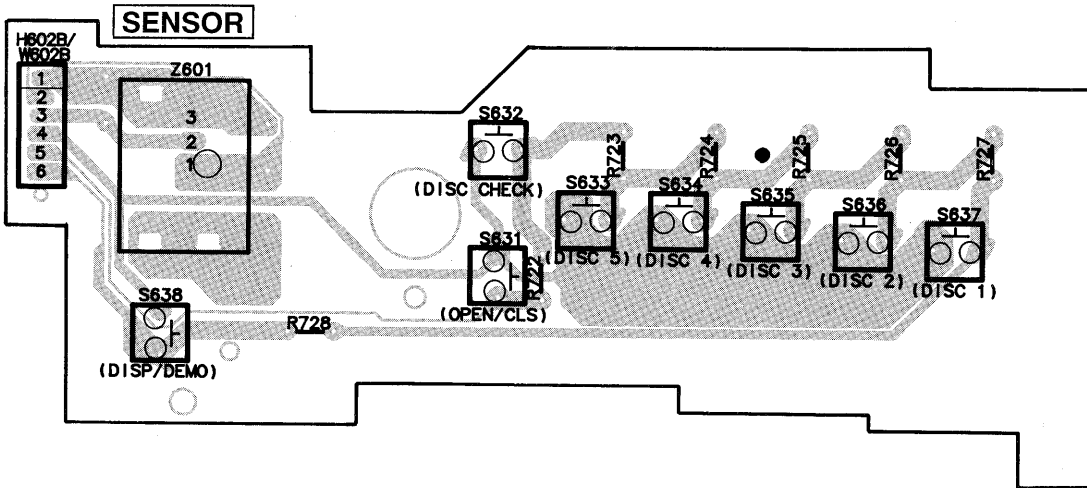
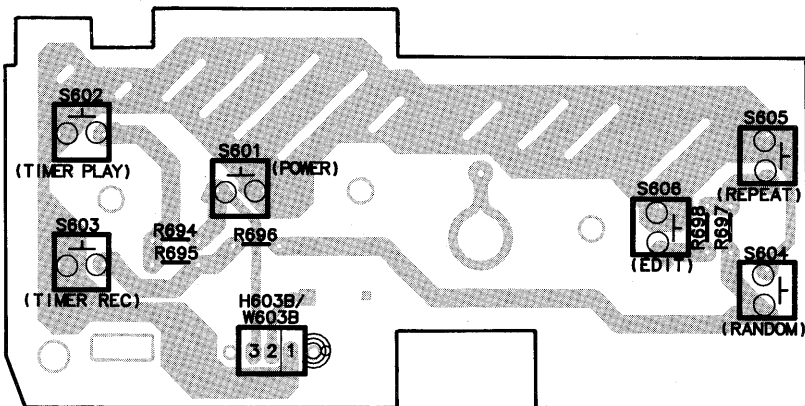
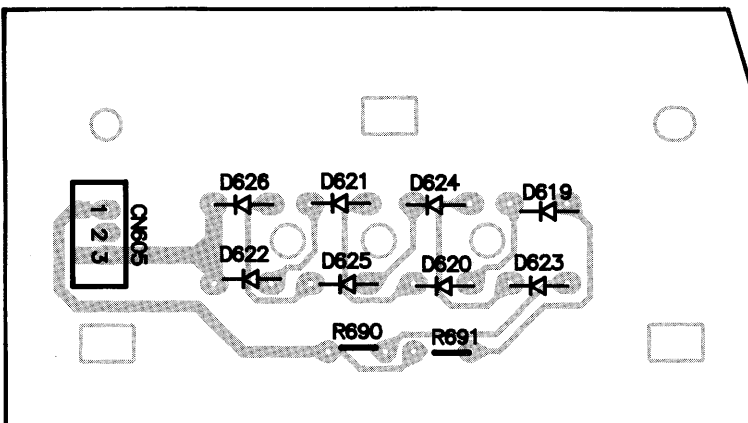
AC IN ~
230V
...GCS
50Hz



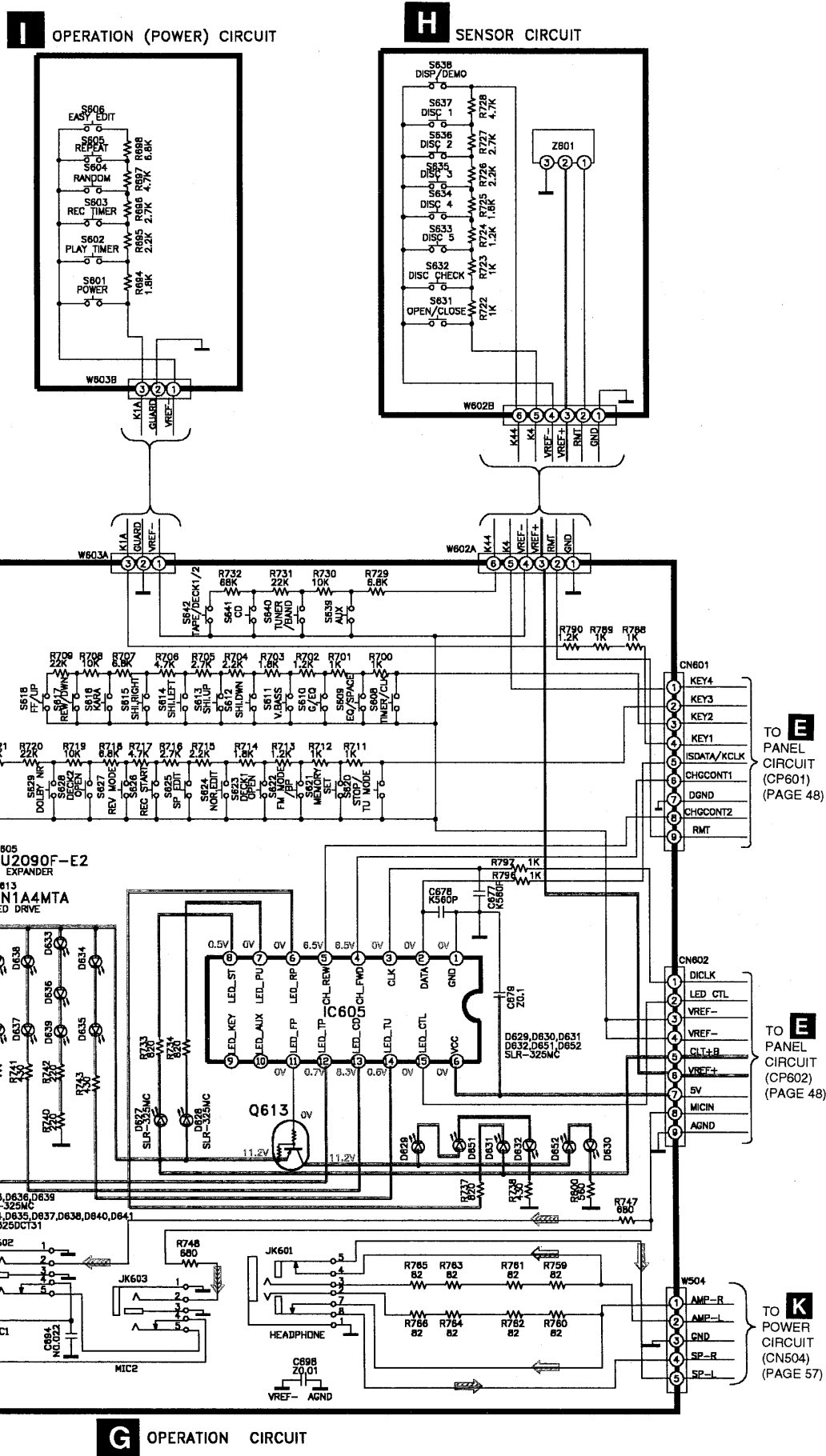
L TRANSFORMER P.C.B. (REP2197M)...GN

CAUTION
RISK OF ELECTRIC SHOCK
 AC voltage line. Please do not
 touch this pcb.

**P** VOLTAGE SELECTOR P.C.B. (REP2197J)...GC,GT**Q** REGULATOR TRANSISTOR P.C.B. (REP2197J)...GC,GT
(REP2197L)...GCS
(REP2197M)...GN**U** POWER SWITCH P.C.B (REP2197J)...GC,GT
(REP2197L)...GCS
(REP2197M)...GN

F LED P.C.B. (REP2199H)...GC,GT,GCS / (REP2199J)...GN**H** SENSOR P.C.B. (REP2199H)...GC,GT,GCS / (REP2199J)...GN**I** OPERATION(POWER) P.C.B. (REP2199H)...GC,GT,GCS / (REP2199J)...GN**J** BACK LIGHT P.C.B. (REP2196G)

■ Schematic Diagram



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

Note :

< for Servo Circuit > (Page 43)

• S701 : Reset switch

< for Voltage Selector Circuit and Power Switch Circuit > (Page 57,58)

• S501 : Power switch

• S502 : Voltage selector switch

< for Panel circuit, Sensor Circuit, Operation Circuit and Operation(Power) circuit > (Page 40, 48 – 50)

• S601 : Power switch	• S624 : Tape Edit Normal switch
• S602 : Timer Play switch	• S625 : Tape Edit High switch
• S603 : Timer Record switch	• S626 : Record switch
• S604 : Random switch	• S627 : Reverse Mode switch
• S605 : Repeat switch	• S628 : Eject Deck 2 switch
• S606 : Easy Edit switch	• S629 : DOLBY NR switch
• S608 : Clock/Timer switch	• S631 : CD Open/Close switch
• S609 : EQ. Space switch	• S632 : CD Disc Check switch
• S610 : Graphic EQ. switch	• S633 : CD Disc 5 switch
• S611 : V. Bass switch	• S634 : CD Disc 4 switch
• S612 : EQ. Space Down switch	• S635 : CD Disc 3 switch
• S613 : EQ. Space Up switch	• S636 : CD Disc 2 switch
• S614 : EQ. Space Left switch	• S637 : CD Disc 1 switch
• S615 : EQ. Space Right switch	• S638 : Display/Demo switch
• S616 : Karaoke switch	• S639 : AUX switch
• S617 : REW/Down switch	• S640 : Tuner switch
• S618 : FF/Up switch	• S641 : CD switch
• S620 : Stop/tuning mode switch	• S642 : Deck 1/2 switch
• S621 : Reverse Play/memory/set switch	• VR601 : Mic control
• S622 : Forward Play/FM mode BP switch	• VR602 : Mic control
• S623 : Deck 1 Eject switch	• VR603 : Volume control

< for Deck circuit, Mechanism (Deck 1) circuit and Mechanism (Deck 2) circuit > (Page 54 – 56)

• S951 : Deck 1 Mode detect switch.	• S975 : Deck 2 Record detect switch.
• S952 : Deck 1 Tape detect switch.	• VR101 : Deck 1 Lch playback gain adjustment VR (DOLBY).
• S953 : Deck 1 CrO ₂ detect switch.	• VR102 : Deck 1 Rch playback gain adjustment VR (DOLBY).
• S971 : Deck 2 Mode detect switch.	• VR103 : Deck 2 Lch playback gain adjustment VR (DOLBY).
• S972 : Deck 2 Tape detect switch.	• VR104 : Deck 2 Rch playback gain adjustment VR (DOLBY).
• S973 : Deck 2 CrO ₂ detect switch.	• VR201 : Deck 2 Normal speed adjustment.
• S974 : Deck 2 Record detect switch.	

< for Loading Motor circuit, Detecting Switch (1) Circuit and Detecting Switch (2) Circuit > (Page 58)

• S1, S4 : Leaf switch.
• S2, S3, S5 : Mecha switch.

•Signal line

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

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

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

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

•Importance safety notice:

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

Caution !

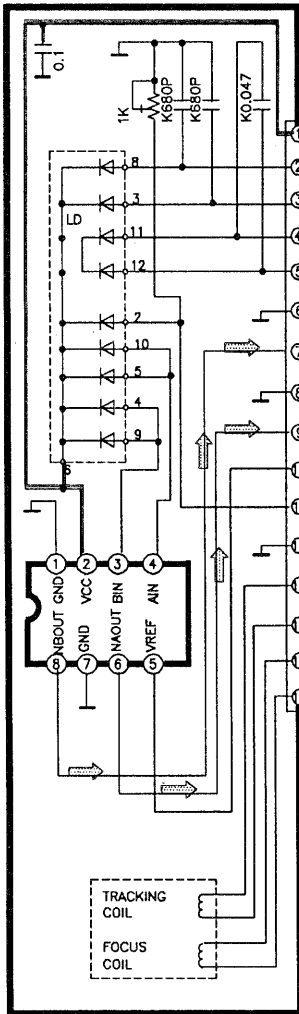
IC, LSI and VLSI are sensitive to static electricity.

Secondary trouble can be prevented by taking care during repair.

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

A SERVO CIRCUIT

OPTICAL PICKUP

M702
SPINDLE
MOTORM701
TRAVERSE
MOTORQ701
2SB709S
LASER POWER
DRIVE

Q701

((4.9V))

((3.4V))

((4.5V))STOP

((1.3V))

((2.9V))

((4.5V))STOP

((1.3V))

((2.9V))

((4.5V))STOP

((1.3V))

((2.9V))

((4.5V))STOP

((1.3V))

((2.9V))

((4.5V))STOP

((1.3V))

((2.9V))

((4.5V))STOP

((1.3V))

((2.9V))

((4.5V))STOP

((1.3V))

((2.9V))

((4.5V))STOP

((1.3V))

((2.9V))

((4.5V))STOP

((1.3V))

((2.9V))

((4.5V))STOP

((1.3V))

((2.9V))

((4.5V))STOP

((1.3V))

((2.9V))

((4.5V))STOP

((1.3V))

((2.9V))

((4.5V))STOP

((1.3V))

((2.9V))

((4.5V))STOP

((1.3V))

((2.9V))

((4.5V))STOP

((1.3V))

((2.9V))

((4.5V))STOP

((1.3V))

((2.9V))

((4.5V))STOP

((1.3V))

((2.9V))

((4.5V))STOP

((1.3V))

((2.9V))

((4.5V))STOP

((1.3V))

((2.9V))

((4.5V))STOP

((1.3V))

((2.9V))

((4.5V))STOP

((1.3V))

((2.9V))

((4.5V))STOP

((1.3V))

((2.9V))

((4.5V))STOP

((1.3V))

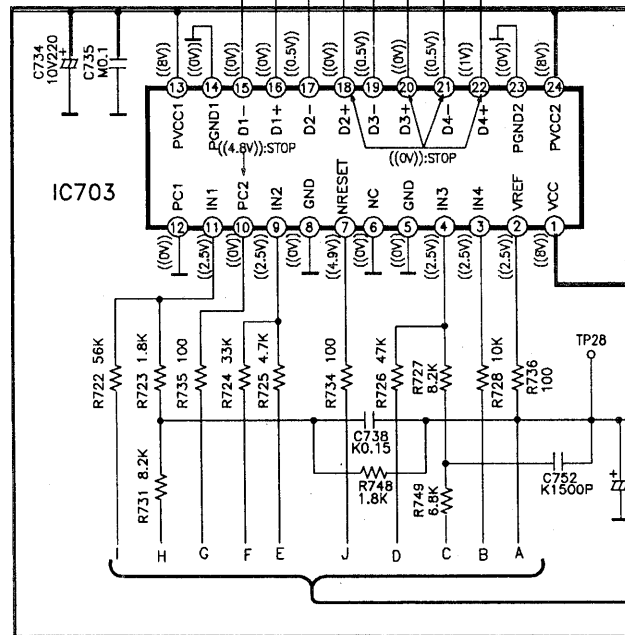
((2.9V))

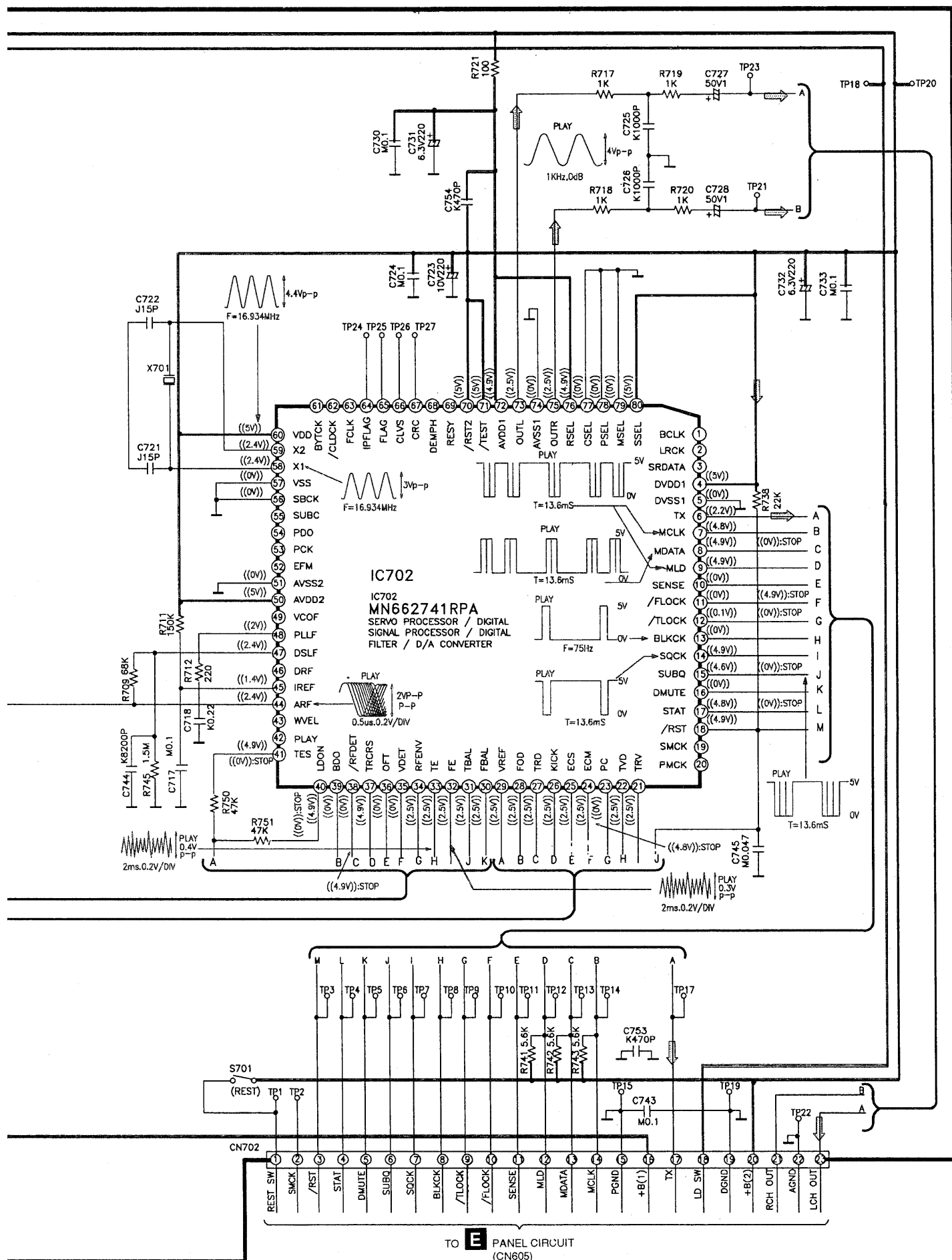
((4.5V))STOP

((1.3V))

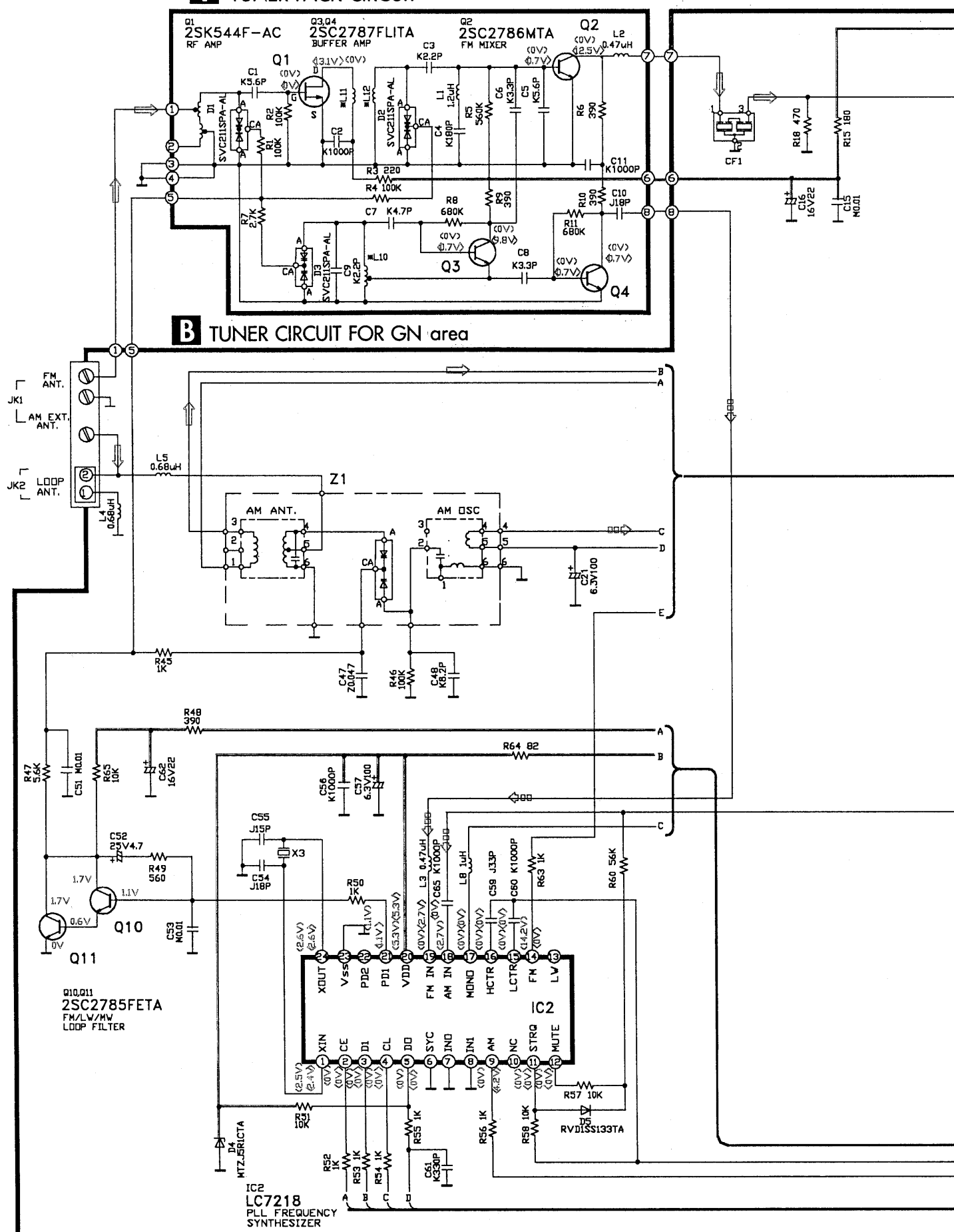
IC703

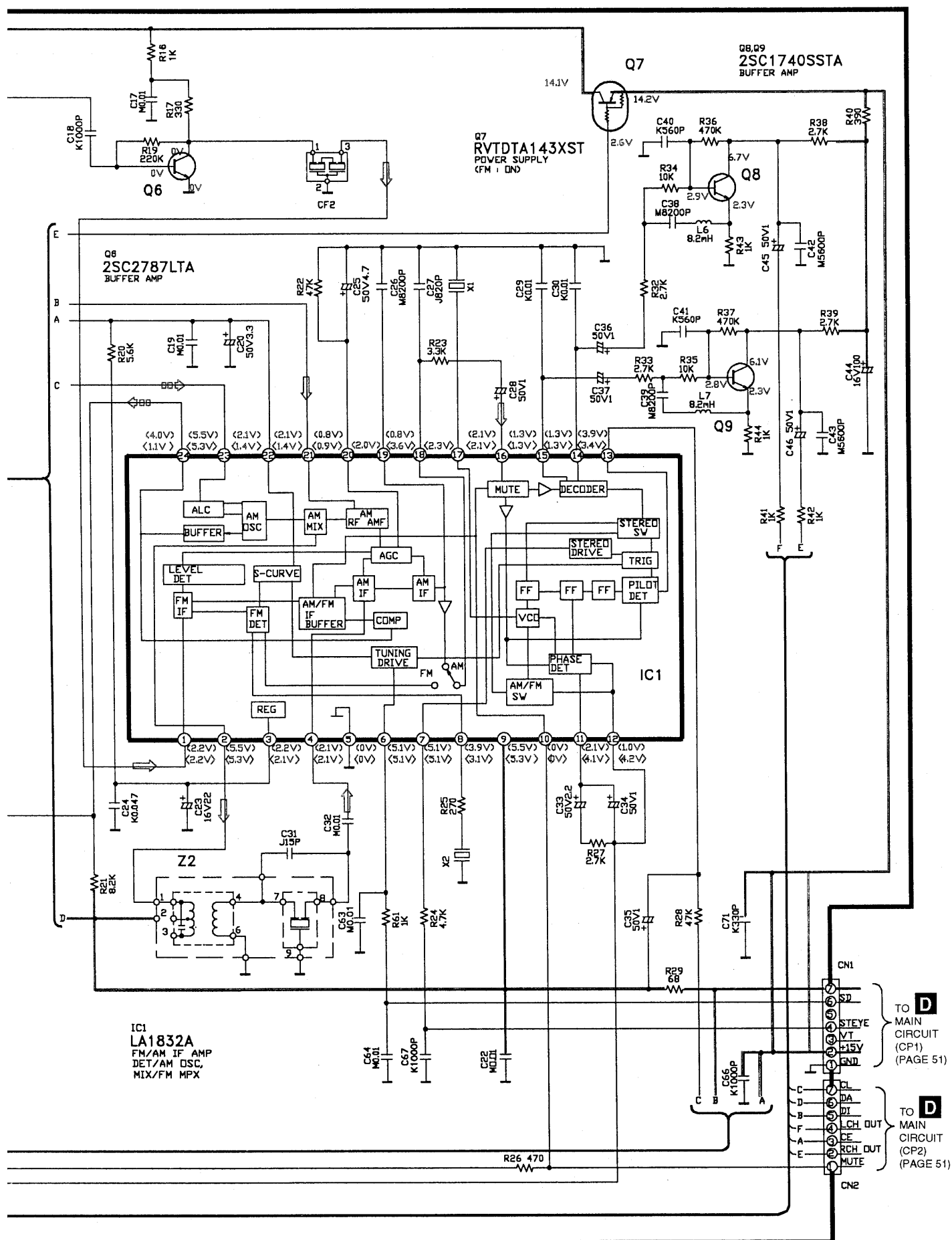
AN8389SE1

FOCUS COIL / TRACKING COIL /
TRAVERSE MOTOR /
SPINDLE MOTOR DRIVE

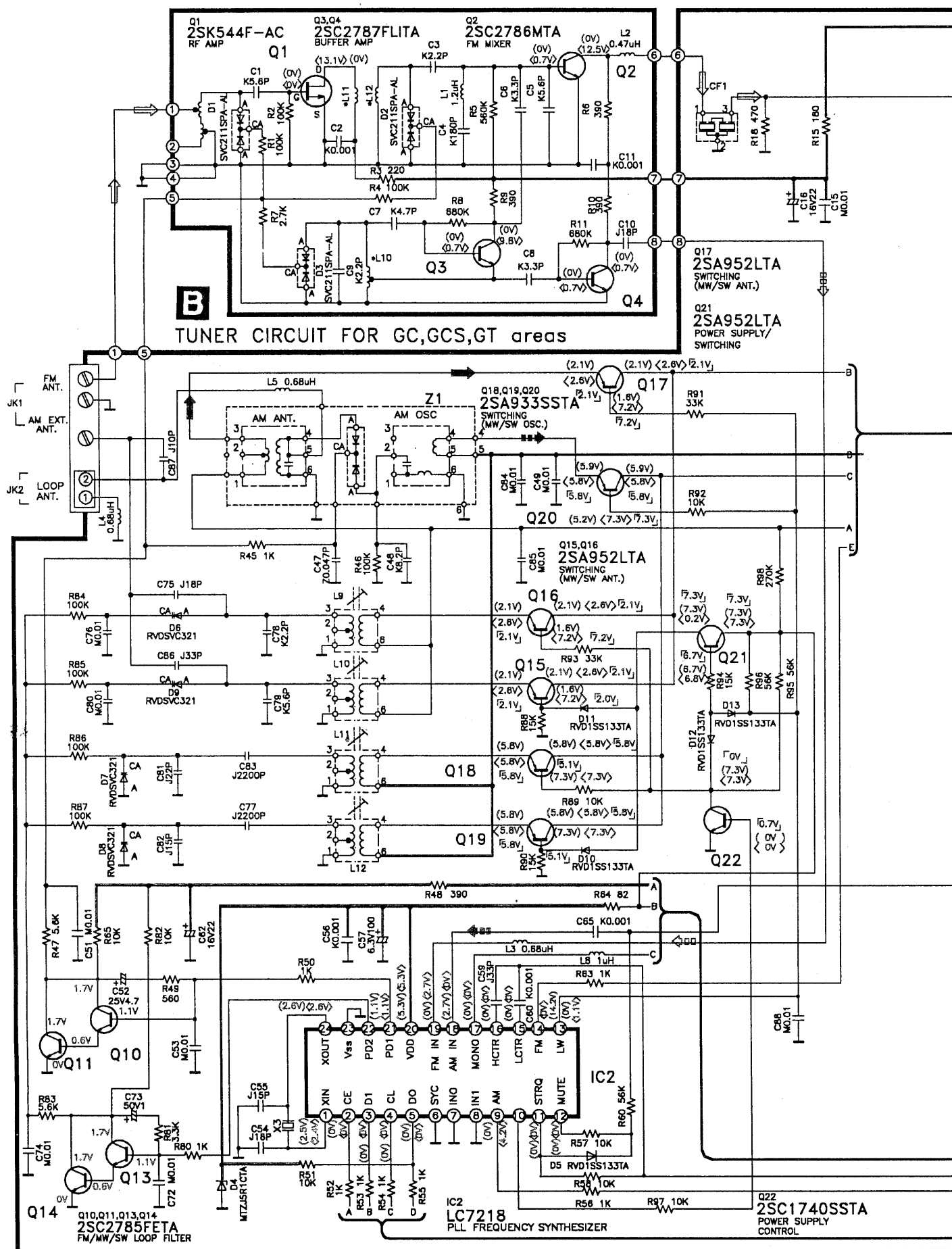


T TUNER PACK CIRCUIT



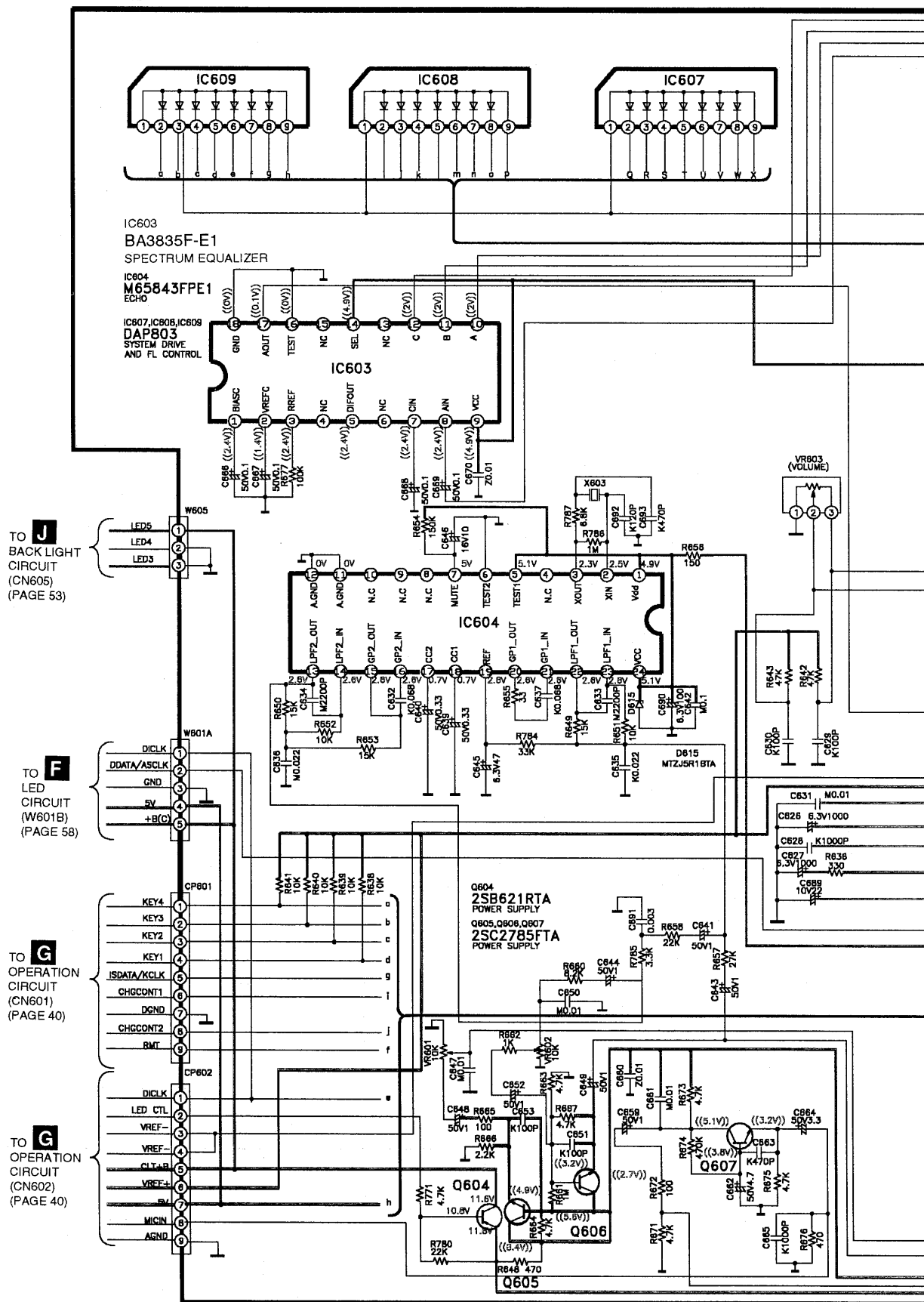


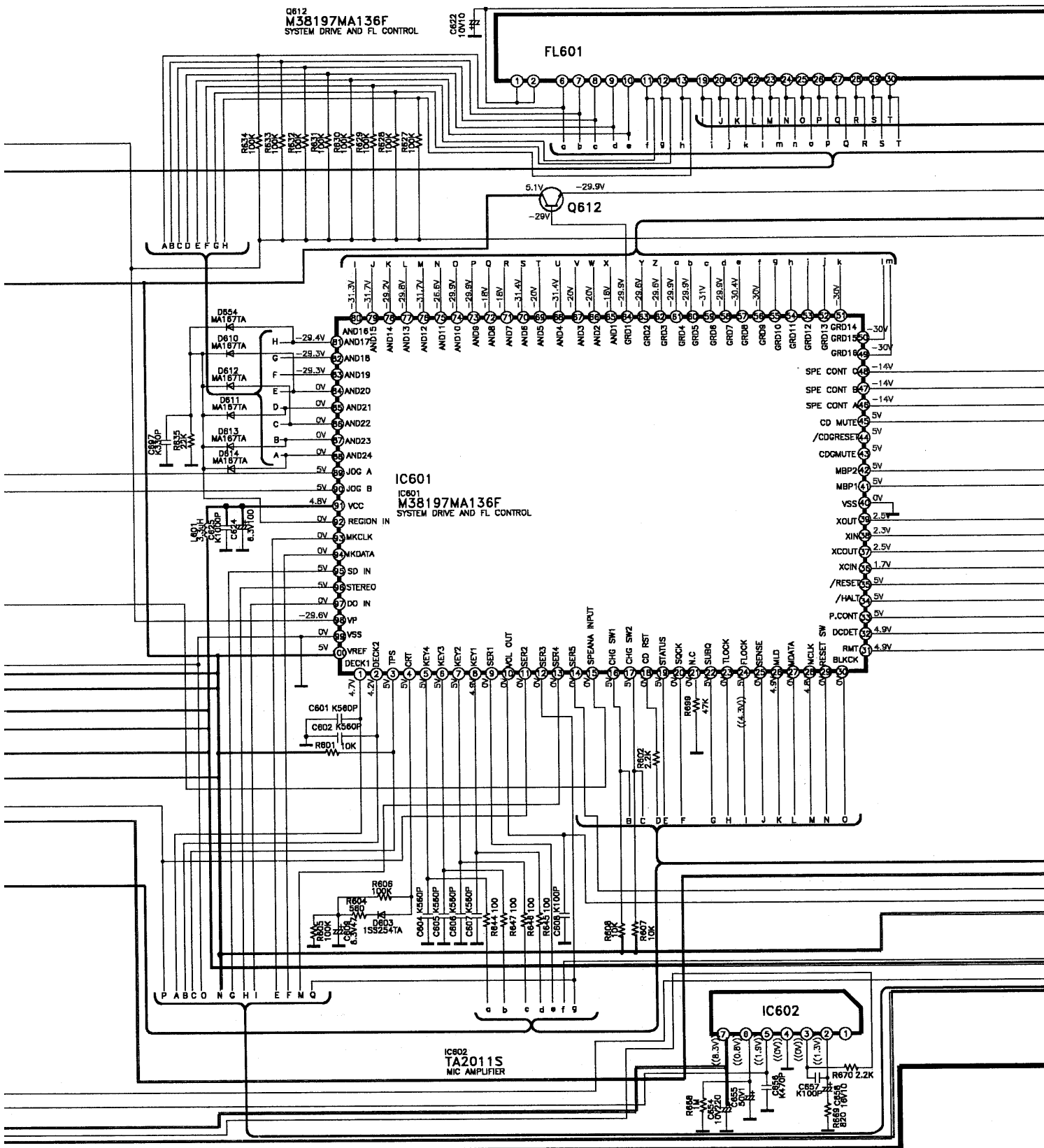
T TUNER PACK CIRCUIT

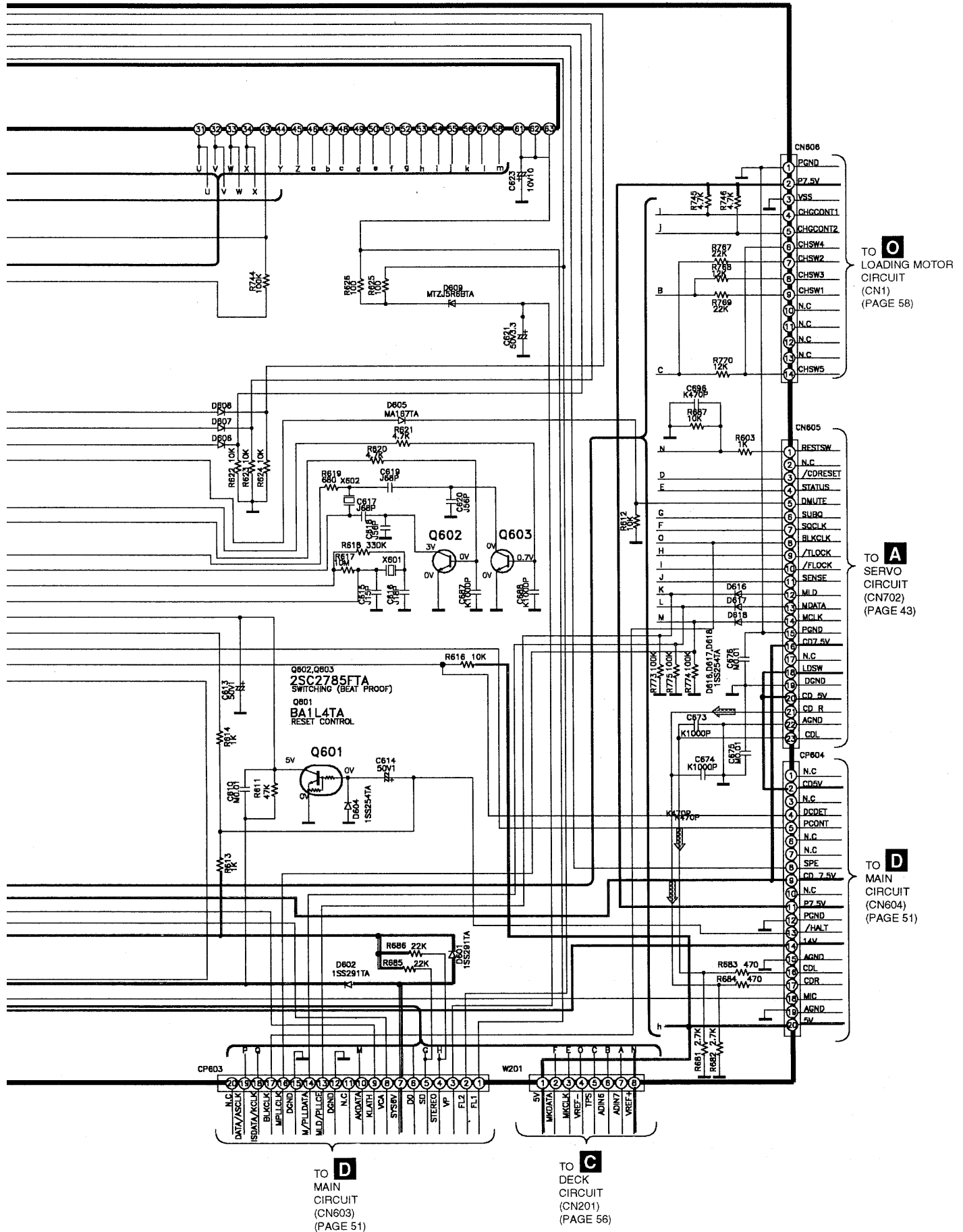




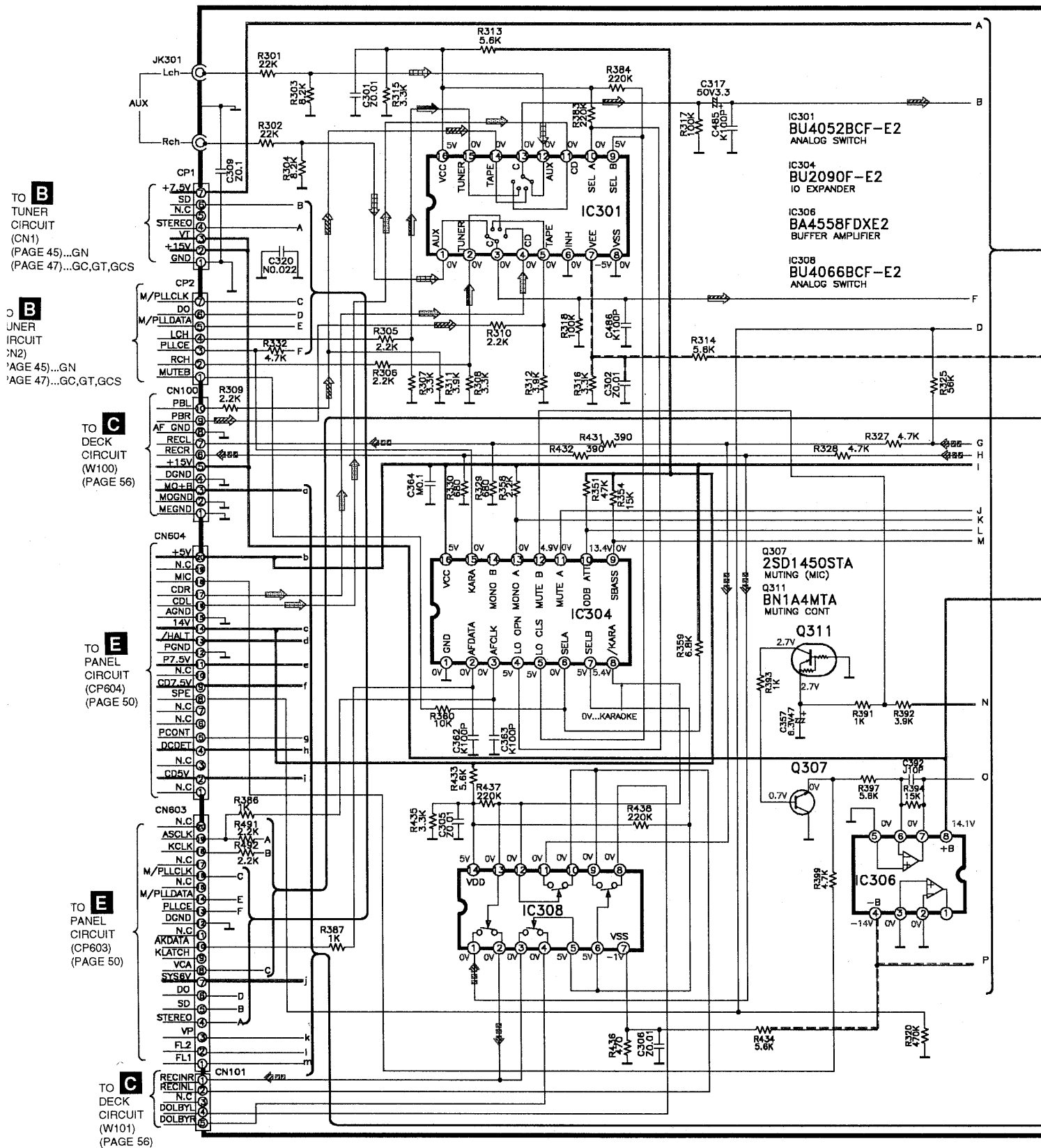
E PANEL CIRCUIT





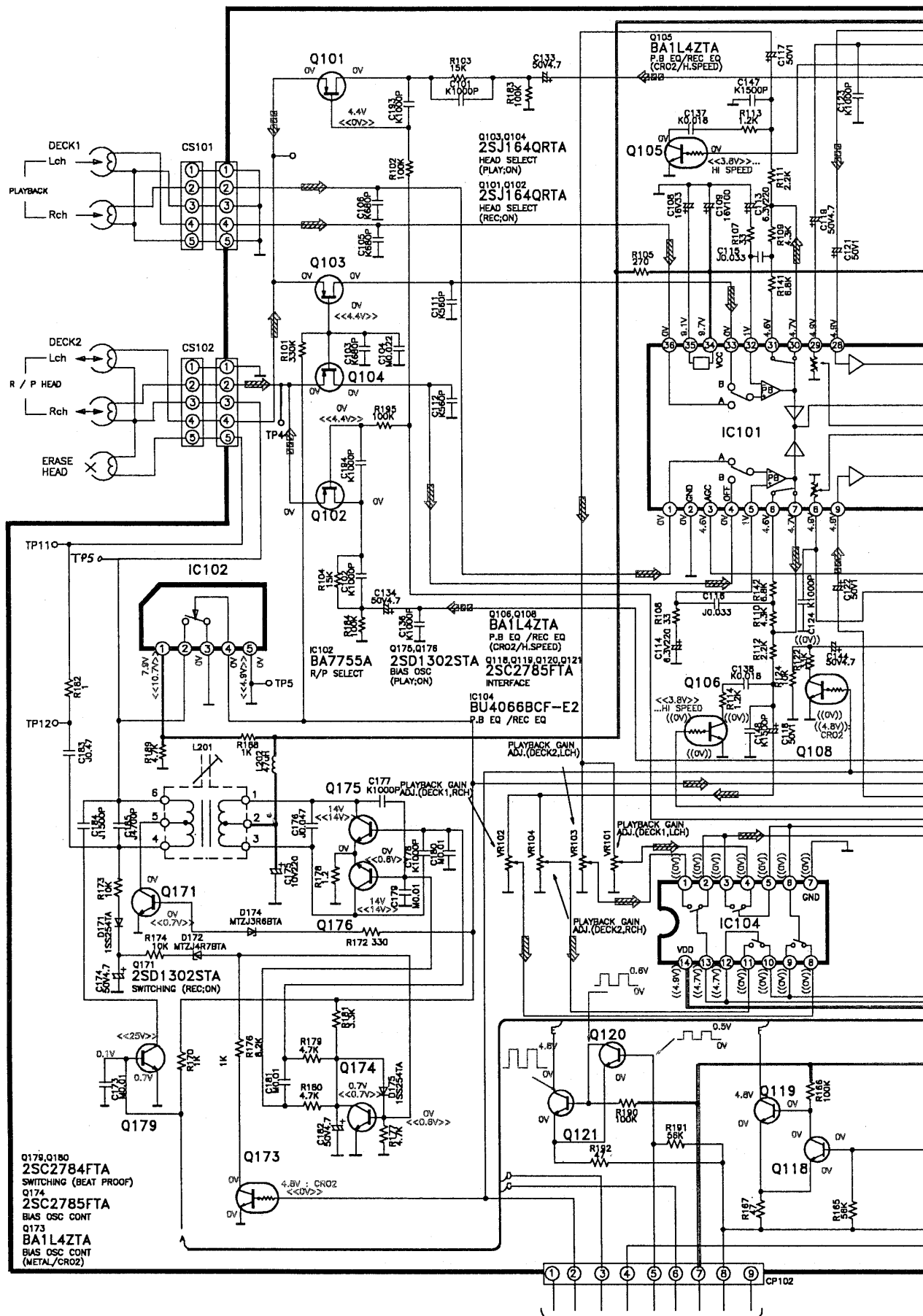


D MAIN CIRCUIT

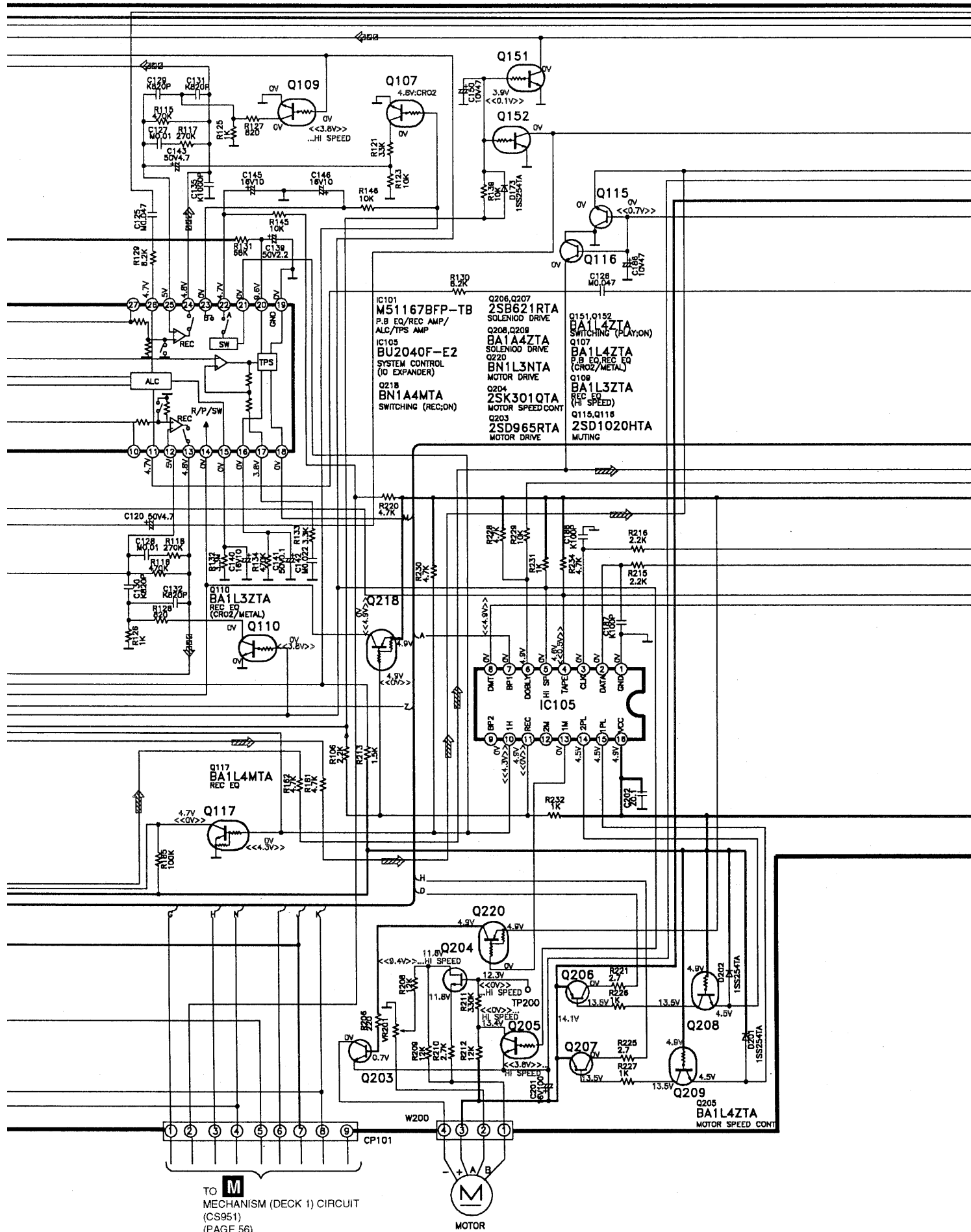


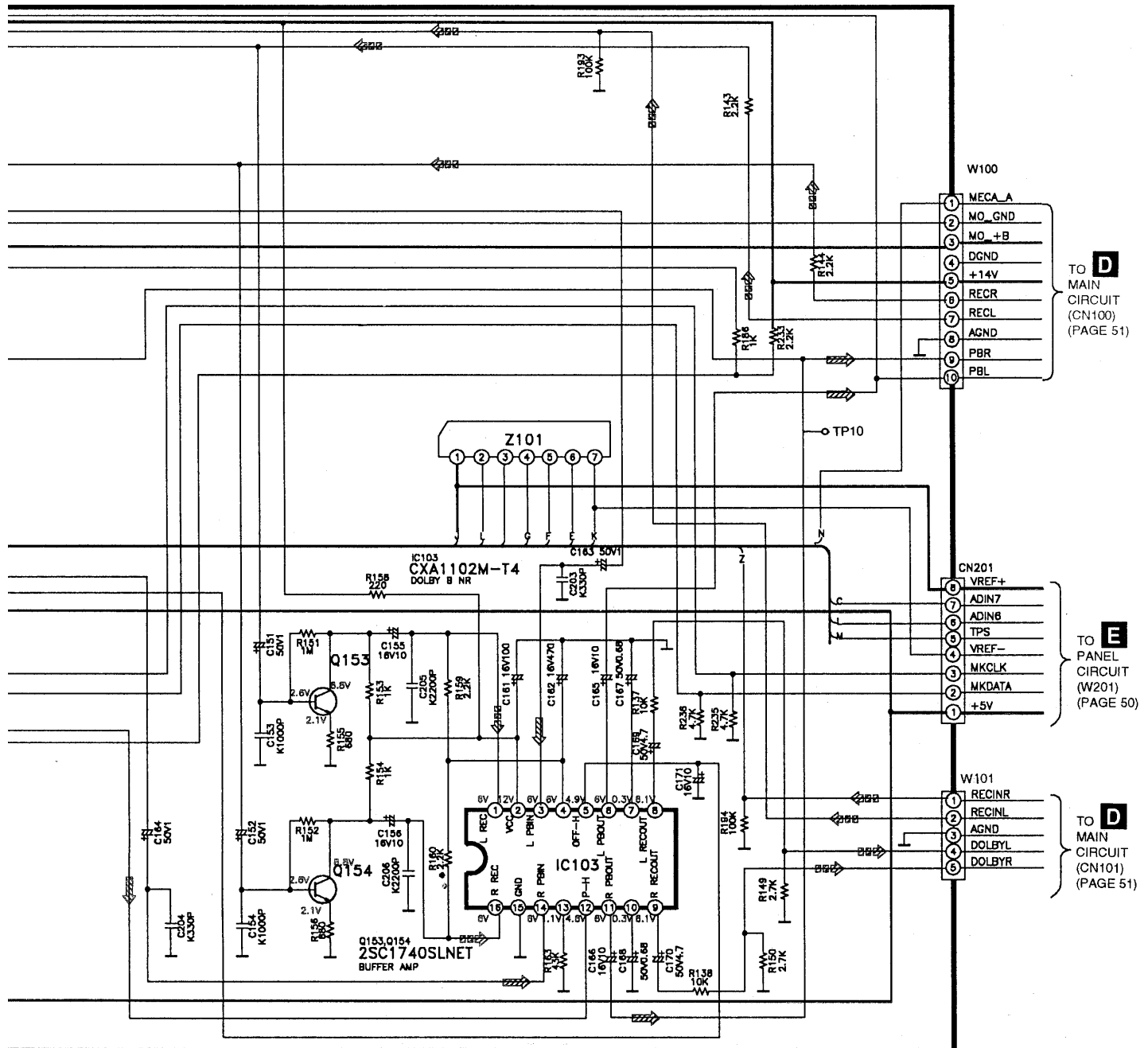


C DECK CIRCUIT

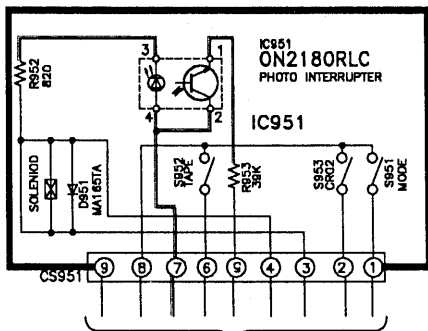


TO **N**
MECHANISM (DECK 2) CIRCUIT
(CS971)
(PAGE 56)



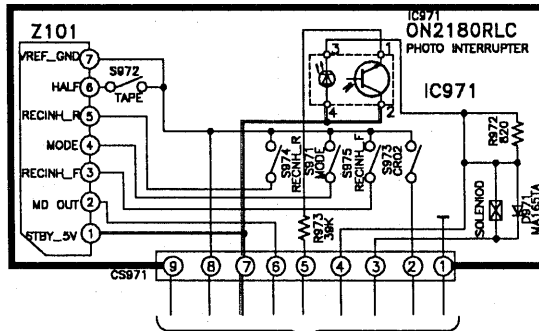


M MECHANISM (DECK 1)
CIRCUIT

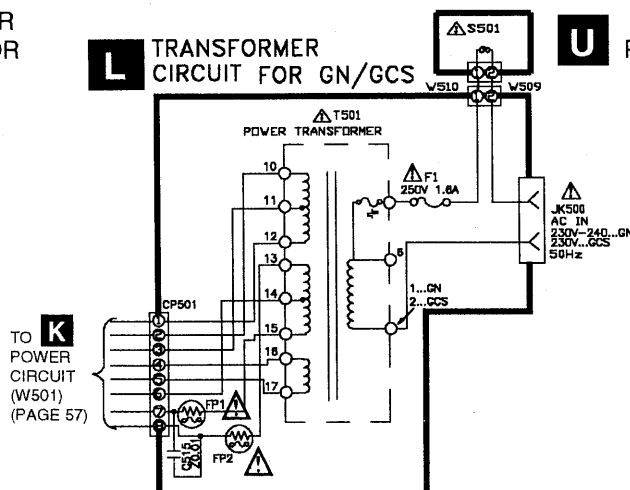


TO **C**
DECK CIRCUIT
(CP101)
(PAGE 55)

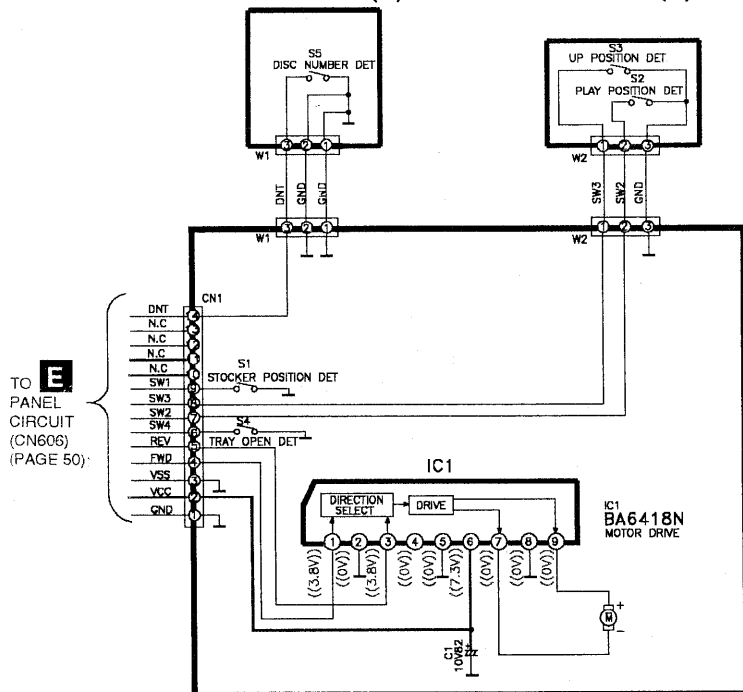
N MECHANISM (DECK 2)
CIRCUIT



TO **C**
DECK CIRCUIT
(CP102)
(PAGE 54)



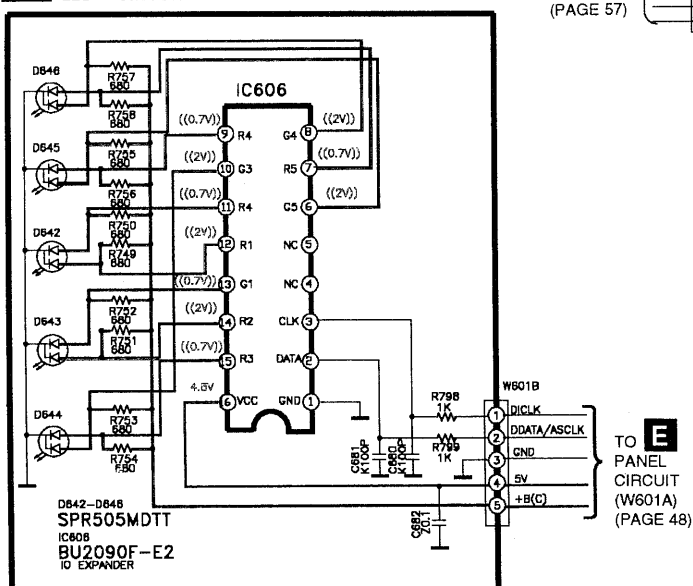
R DETECTING SWITCH (1) CIRCUIT **S** DETECTING SWITCH (2) CIRCUIT



E TO PANEL CIRCUIT (CN606) (PAGE 50)

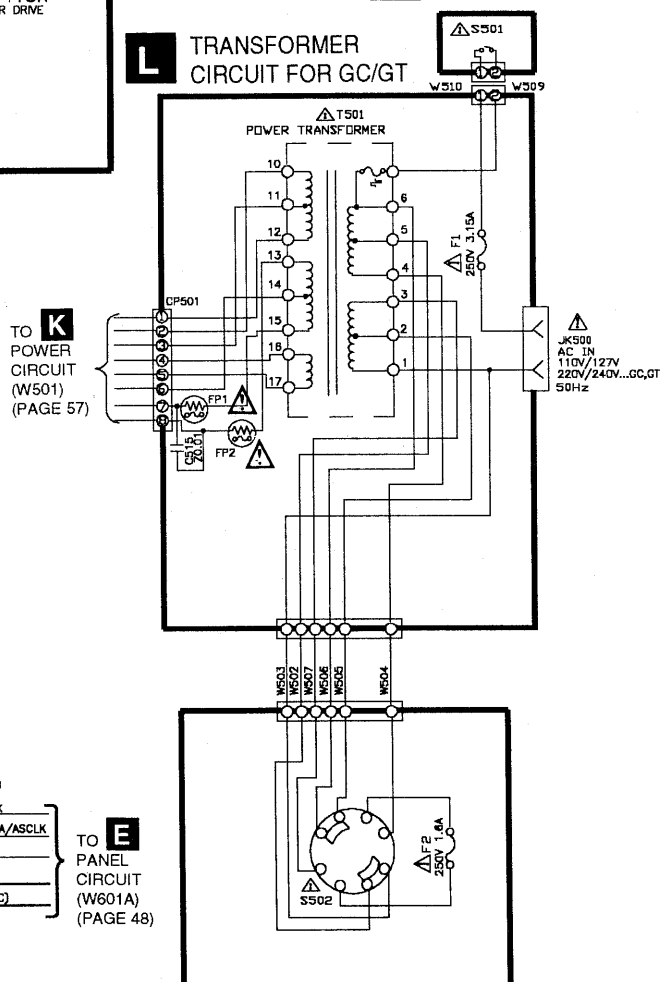
O LOADING MOTOR CIRCUIT

F LED CIRCUIT



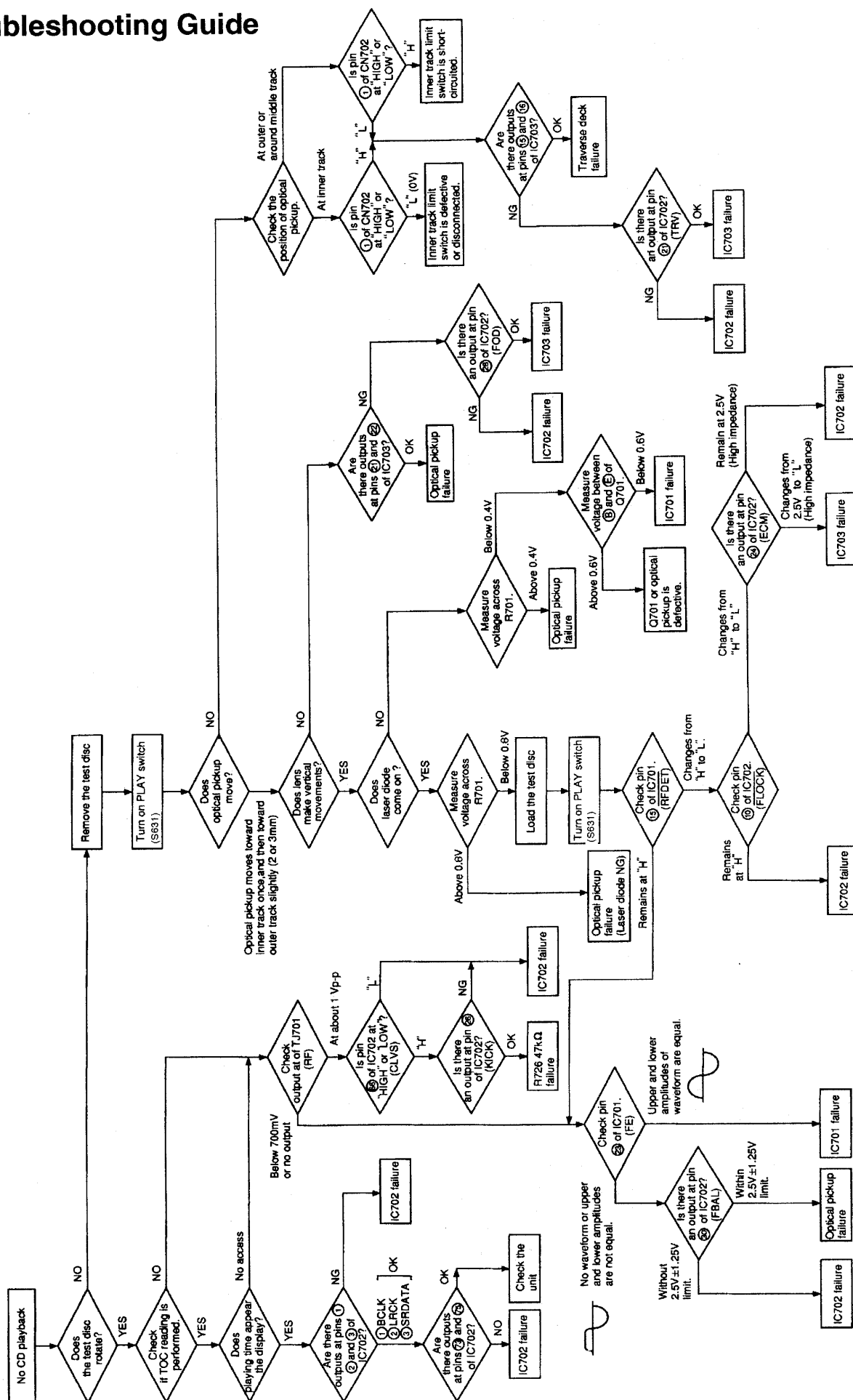
D642-D648
SPR505MDTT
IC606
BU2090F-E2
10 EXPANDER

L TRANSFORMER CIRCUIT FOR GC/GT **U** POWER SWITCH CIRCUIT



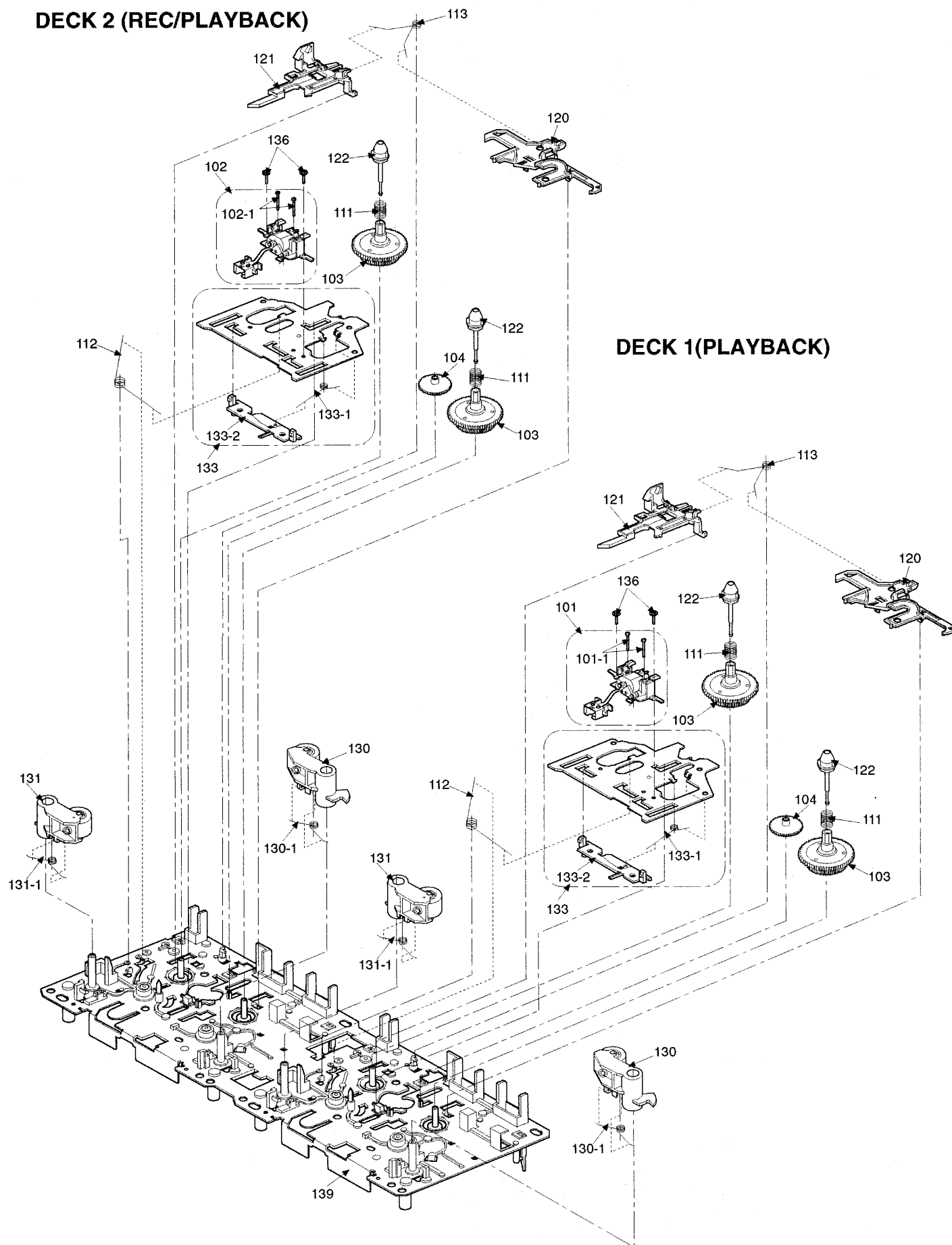
P VOLTAGE SELECTOR CIRCUIT

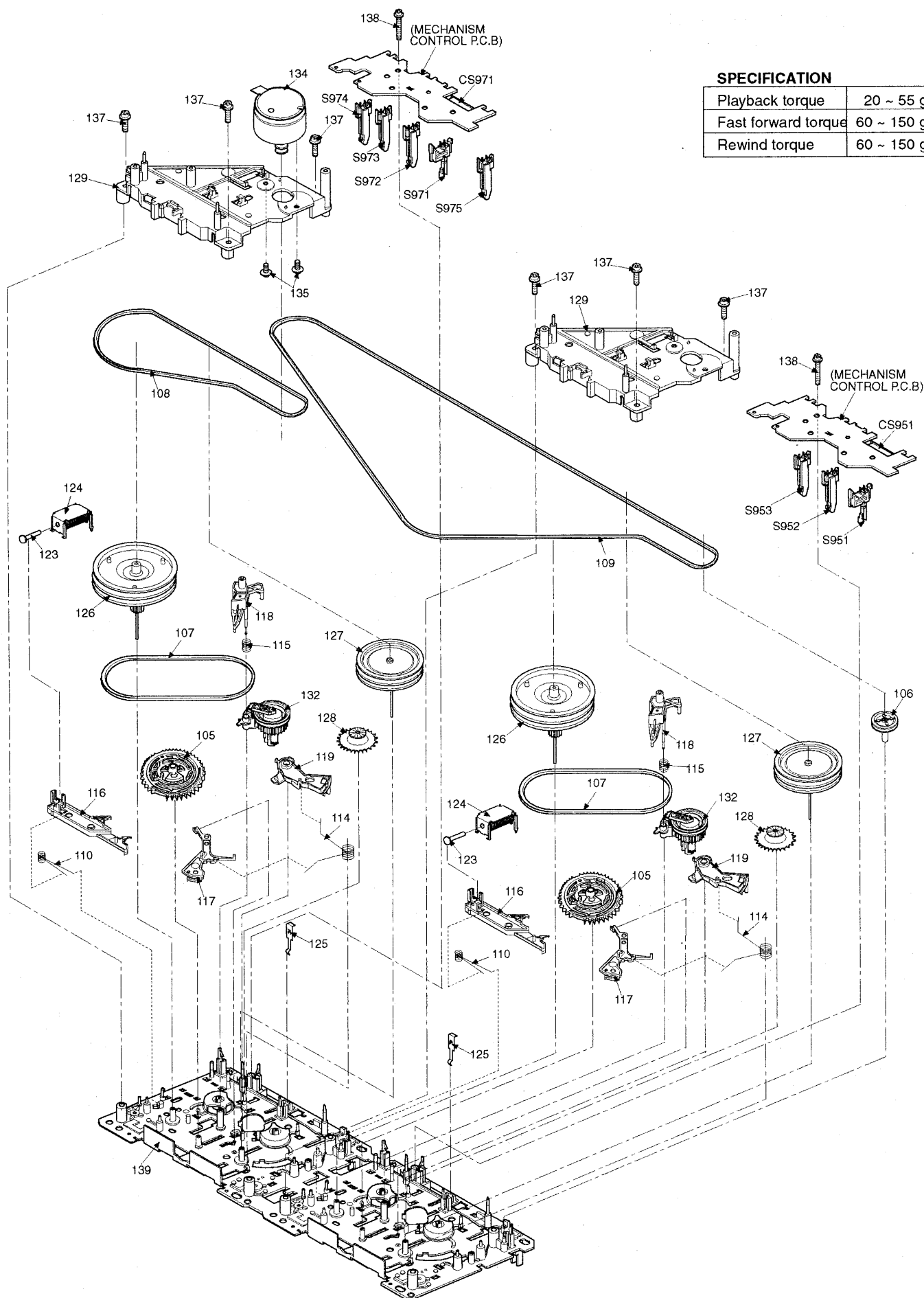
Troubleshooting Guide



Mechanism Parts Location (RAA3404)

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

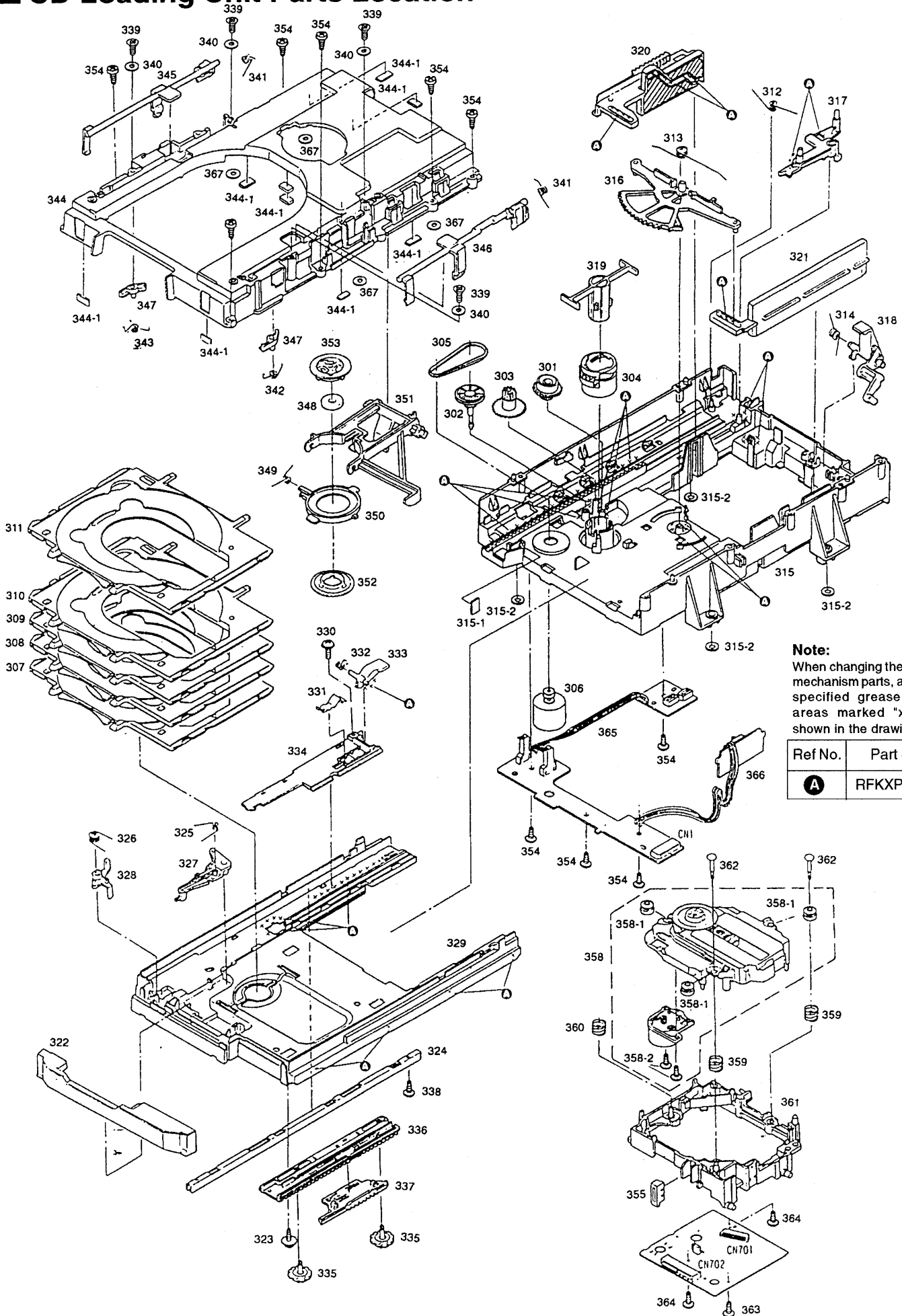
Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
		CASSETTE DECK		113	RMB0404	SPRING		129	RMK0283	PLATE	
				114	RMB0406	SPRING		130	RXL0124	PINCH ROLLER ASS'Y	
101	RED0038	P/B HEAD BLOCK ASS'Y		115	RMB0408	SPRING		130-1	RMB0401	SPRING	
101-1	RHE5152ZB	SCREW		116	RML0370	LEVER		131	RXL0125	PINCH ROLLER ASS'Y	
102	RED0037	R/P HEAD BLOCK ASS'Y		117	RML0371	LEVER		131-1	RMB0402	SPRING	
102-1	RHE5152ZB	SCREW		118	RML0372	ARM		132	RXL0126	GEAR	
103	RDG0300	REEL TABLE BASE		119	RML0374	LEVER		133	RXQ0412	ROD	
104	RDG0301	GEAR		120	RMM0131	LEVER		133-1	RMB0405	SPRING	
105	RDK0026	GEAR		121	RMM0133	LEVER		133-2	RMM0132	ROD	
106	RDR0029	RELAY PULLEY		122	RMQ0519	REEL TABLE HEAD		134	REM0055	MOTOR ASS'Y	
107	RDV0033-1	BELT		123	RMS0398-1	SHAFT		135	RHD26022	SCREW	
108	RDV0034	BELT		124	RSJ0003	PLUNGER		136	XTW2+5L	SCREW	
109	RDV0035	BELT		125	RUS609ZC	SPRING		137	XTW26+10S	SCREW	
110	RUW147ZA	SPRING		126	RXF0049	FLYWHEEL ASS'Y		138	XYC2+JF17	SCREW	
111	RMB0400	REEL TABLE SPRING		127	RXF0050	FLYWHEEL ASS'Y		139	RFKJXED70-K	CHASSIS ASS'Y	
112	RMB0403	SPRING		128	RXG0040	GEAR					

Loading Mechanism Parts List

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

Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
		TRAVERSE DECK		322	RGQ0175-K	TRAY ORNAMENT		346	RML0382	HOLDING CATCH (2)	
				323	RHD20010	SCREW DRIVE RACK	[M]	347	RML0384	UP PREVENTION LEVER	[M]
301	RDG0309	RELAY GEAR	[M]	324	RMA0868	SUPPORT ANGLE	[M]	348	RHM245ZA	MAGNET	[M]
302	RDG0310	PULLEY GEAR	[M]	325	RME0171	BASE LOCK LEVER SP		349	RME0174	CLAMP BASE SPRING	
303	RDG0311	DRIVE GEAR	[M]	326	RME0172	CARRIER LOCK LEVER S		350	RFKNACH430GE	CLAMP BASE ASS'Y	
304	RDG0313	UP/DOWN GEAR LEVER		327	RML0377	BASE LOCK LEVER		351	RML0388-1	CLAMP LEVER	
305	RDV0036	BELT	[M]	328	RML0378	CARRIER LOCK LEVER		352	RMR0761-W	MAGNET HOLDER LEVER	
306	RFKPDS790PK	MOTOR ASS'Y	[M]	329	RMR0884-K	TRAY BASE		353	RMR0899-K	FIXED PLATE	
307	RGQ0170-K	TRAY 1	[M]	330	RHD20009-1	SCREW CARRIER		354	XTB3+10JFZ	SCREW PB, LID	
308	RGQ0171-K	TRAY 2	[M]	331	RMC0274	TRAY FOOK SPRING	[M]	355	RMR0975-W	TRV CAP	
309	RGQ0172-K	TRAY 3	[M]	332	RME0173	CARRIER ARM SPRING		358	RAE0150Z	TRAVERSE UNIT	
310	RGQ0173-K	TRAY 4		333	RML0376-1	CARRIER ARM		358-1	SHGD113-1	FLOATING RUBBER	
311	RGQ0174-K	TRAY 5		334	RMM0137	CARRIER LEVER		358-2	SNSD38	SCREW	
312	RME0170	LOCK LEVER SPRING	[M]	335	RDG0312	SPEED UP GEAR	[M]	359	RME0109	FLOATING SPRING (1)	
313	RME0179	ASSIST SPRING	[M]	336	RMM0134	DRIVE GEAR	[M]	360	RME0142	FLOATING SPRING (2)	
314	RME0180	TRAY HOLDER SPRING		337	RMM0135	CUSHION RACK	[M]	361	RMK0293	TRAVERSE CHASSIS	[M]
315	RFKNACH430GC	MECHA BASE ASS'Y		338	XTN2+6F	SCREW SUPPORT ANGLE	[M]	362	RMS0123-1	FIXED PIN	
315-1	RMF0221	FELT		339	XTS3+8J	SCREW		363	XTN2+6G	SCREW	
315-2	RMG0402-K	RUBBER WASHER		340	XWE4E10	CUSHION		364	XTV2+6G	SCREW	
316	RML0379	CHANGE LEVER	[M]	341	RME0178	HOLDING SPRING		365	REZ0792	3P WIRE KIT	
317	RML0380	LOCK LEVER	[M]	342	RME0181	UP PREVENTION SP (R)	[M]	366	REZ0793	3P WIRE KIT	
318	RML0383	TRAY HOLDING LEVER		343	RME0182	UP PREVENTION SP (L)	[M]	367	RMG0430-Q	RUBBER TUBE	
319	RML0385	UP/DOWN LEVER		344	RFKNACH430GD	MECHA COVER ASS'Y					
320	RMM0139	SLIDE PLATE LEVER (1)		344-1	RMF0221	FELT					
321	RMM0141	SLIDE PLATE LEVER (2)		345	RML0381	HOLDING CATCH (1)					

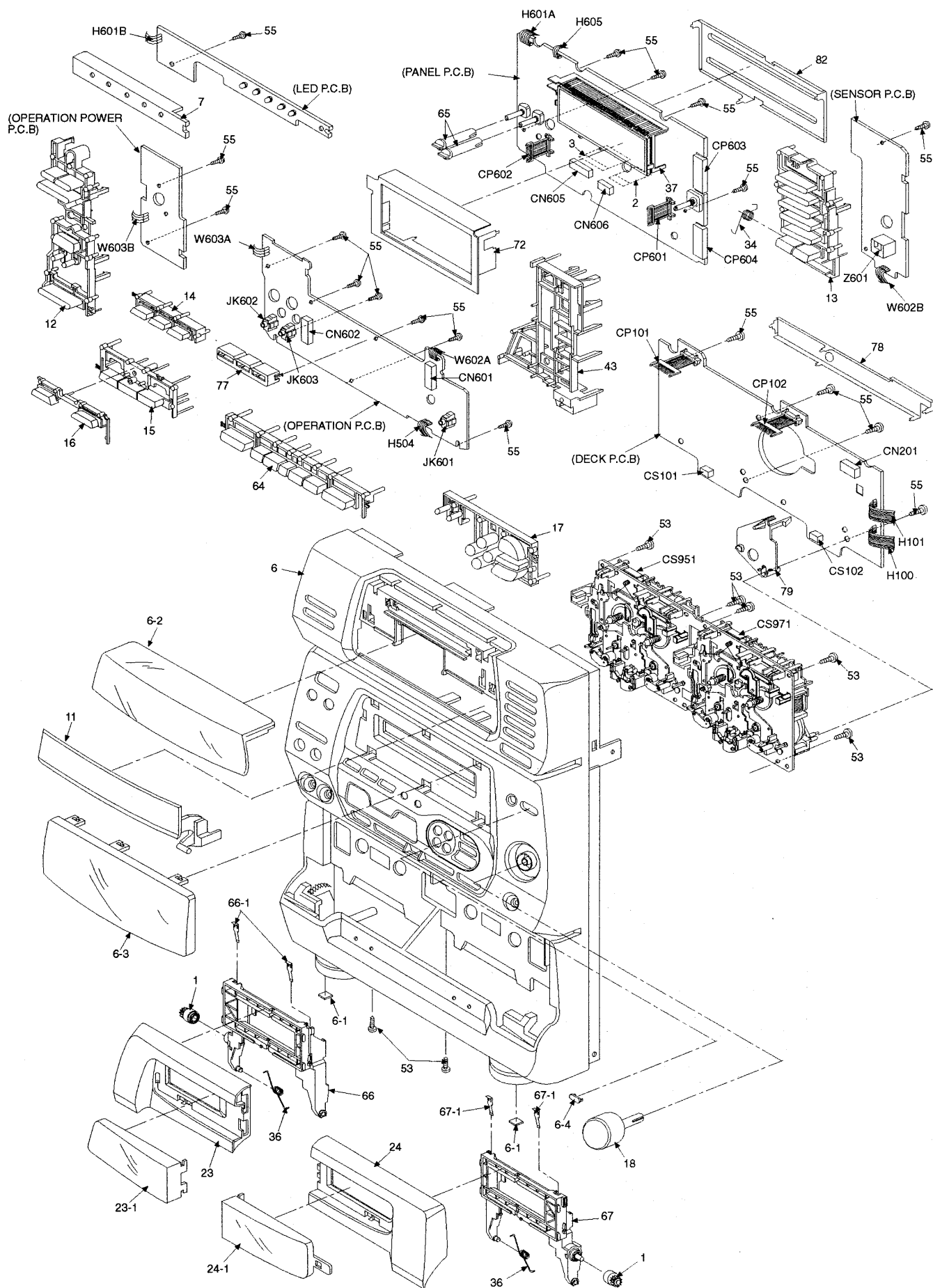
■ CD Loading Unit Parts Location

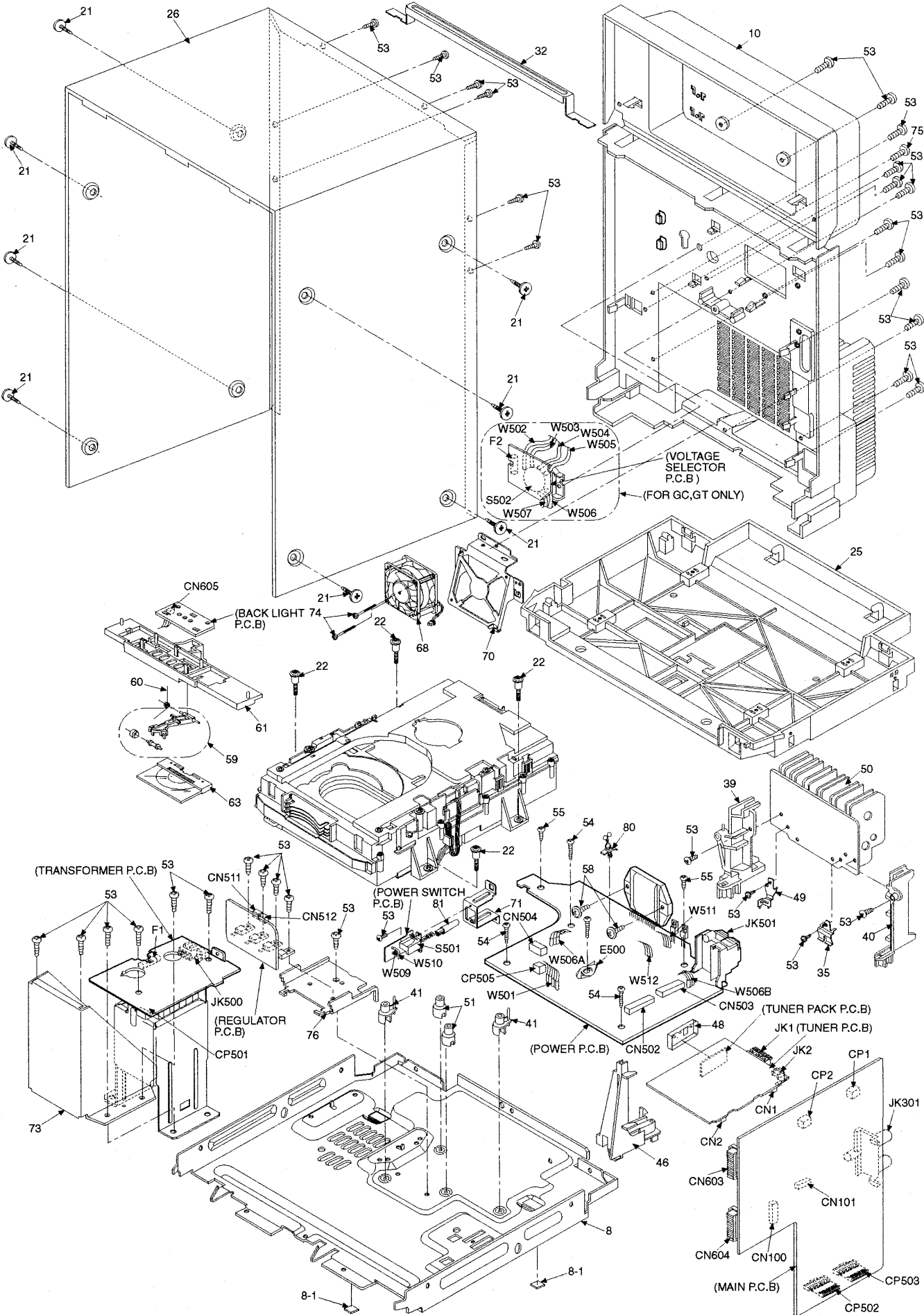


Note:
When changing the loading mechanism parts, apply the specified grease to the areas marked "xxx" as shown in the drawing.

Ref No.	Part No.
A	RFKXPG671

■ Cabinet Parts Location





■ Repalcement Parts List

Notes: * Important safety notice:

Components identified by  mark have special characteristics important for safety.

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

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

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

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

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

ACHTUNG : • Die lasereinheit nicht zerlegen.

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

Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
		CABINET AND CHASSIS		43	RMR0908-X	PANEL PCB SUPPORT	[M]	IC101	M51167BFP-TB	IC, R/P	
				46	RMR0821-X	MAIN PCB SUPPORT	[M]	IC102	BA7755A	IC, SW	
1	RDG0129	DAMPER GEAR	[M]	48	RSC0027-1	TUNER PACK		IC103	CXA1102M-T4	IC, DOLBY	
2	REE0657	14 FFC		49	RSC0362	EARTH TERMINAL	[M]	IC104	BU4066BCF-E2	IC, ANALOG SW	[M]
3	REE0658	23P FFC		50	RXX0177	HEAT SINK UNIT	[M]	IC105	BU2040F-E2	IC, I/O	[M]
6	RFKGACH75GCK	FRONT PANEL ASS'Y	[M]	51	SHE187-4	SPACER (TRANS)	[M]	IC301	BU4052BCF-E2	IC, ANALOG SW	
6-1	RKA0059-K	LEG RUBBER	[M]	53	XTB3+10JFZ	SCREW		IC302	M62422FPE1	IC, AUDIO	
6-2	RKW0415-Q	CHANGER WINDOW	[M]	54	XTB3+20J	SCREW		IC303	M51131L-702	IC, VCA	
6-3	RKW0416-Q	FL WINDOW	[M]	55	XTBS26+10J	SCREW		IC304	BU2090F-E2	IC, IO EXPANDER	[M]
6-4	RKW0414-Q	SENSOR WINDOW	[M]	58	XTW3+15T	SCREW		IC305	BA4558FDXE2	IC, BUFFER AMP	[M]
7	RFKNACH430GB	5 LED REFLECTOR ASSY		59	RFKNACH34PK	HOLDER ARM ASSEMBLY	[M]	IC306	BA4558FDXE2	IC, BUFFER AMP	[M]
8	RFKJACH430GK	BOTTOM CHASSIS ASS'Y		60	RME0221	HOLDER ARM SPRING	[M]	IC308	BU4066BCF-E2	IC, ANALOG SW	[M]
8-1	RKA0059-K	LEG RUBBER	[M]	61	RMN0350	8 LED HOLDER	[M]	IC401	LM2940T5M	IC, REGULATOR	
10	RKF0461J-K	REAR PANEL	[M](GC,GT)	63	RKW0418-Q	8 LED REFLECTOR	[M]	IC501	RSN3404	IC, HIC	
10	RKF0461Q-K	REAR PANEL	[M](GN)	64	RGU1305-K	DECK BUTTON	[M]	IC601	M38197MA136F	IC, U COM	[M]
10	RKF0461P-K	REAR PANEL	[M](GCS)	65	RGW0237-K	MIC KNOB	[M]	IC602	TA2011S	IC, MIC AMP	
11	RGK0767A-K	CHANGER LID	[M]	66	RFKLACH330AK	CASS. HOLDER ASS'Y(L)	[M]	IC603	BA3835F-E1	IC, SPE ANA	
12	RGU1303-K	POWER BUTTON	[M]	66-1	RUS757ZAA	CASS. HALF SPRING	[M]	IC604	M65843FPE1	IC, ECHO	
13	RGU1304-K	DISK BUTTON	[M]	67	RFKLACH330BK	CASS. HOLDER ASS'Y(R)	[M]	IC605	BU2090F-E2	IC, IO EXPANDER	[M]
14	RGU1300-C	FUNCTION BUTTON	[M]	67-1	RUS757ZAA	CASS. HALF SPRING	[M]	IC606	BU2090F-E2	IC, IO EXPANDER	[M]
15	RGU1301-K	CONTROL BUTTON (A)	[M]	68	FBA08A12M2CZ	FAN	[M]	IC607	DAP803	IC, DIODE ARRAY	
16	RGU1302-K	CONTROL BUTTON (B)	[M]	70	RMA0980	FAN HOLDER	[M]	IC608	DAP803	IC, DIODE ARRAY	
17	RGU1306-K	EQ BUTTON	[M]	71	RMA0992	POWER SWITCH ANGLE	[M]	IC609	DAP803	IC, DIODE ARRAY	
18	RGW0238-K	MAIN VOLUME KNOB	[M]	72	RFKNACH75GCK	FL SHIELD PLATE ASSY	[M]	IC701	AN8835SBE1	IC, SERVO AMP.	
21	RHD30007	SCREW (TRANS)		73	RSC0461	TRANS. SHIELD PLATE	[M]	IC702	MN662741RPA	IC, DIGITAL LSI	
22	RHD30048	SCREW	[M]	74	XTB3+30J	SCREW		IC703	AN8389SE1	IC, COIL/MOTOR DRIVE	
23	RFKLACH75GCA	CASSETTE LID ASS'Y(L)	[M]	75	XYN3+C6FZ	SCREW		IC951	0N2180RLC	IC, HALL	
23-1	RKW0412-Q	CASSETTE WINDOW (L)	[M]	76	RMV0187	SUB HEAT SINK	[M]	IC971	0N2180RLC	IC, HALL	
24	RFKLACH75GCB	CASSETTE LID ASS'Y(R)	[M]	77	RMN0348	FUNCTION LED HOLDER	[M]				
24-1	RKW0413-Q	CASSETTE WINDOW (R)	[M]	78	RSC0452-1	DECK PCB SHIELD PLAT	[M]			TRANSISTORS	
25	RKM0309-K	CHANGER CHASSIS	[M]	79	RMR0909-X	DECK PCB SUPPORT	[M]				
26	RKM0310A-K	CABINET	[M]	80	RMR0824-W	CLAMPER		Q1	2SK544F-AC	TRANSISTOR	
32	RMA0938	REAR SUPPORT ANGLE	[M]	81	RGU1219-K	MAIN POWER BUTTON	[M]	Q2	2SC2786MTA	TRANSISTOR	
34	RMB0447	CD LID SPRING	[M]	82	RSC0447	FL SHIELD PLATE (PCB)	[M]	Q3	2SC2787FL1TA	TRANSISTOR	
35	RMC0158-S	TR FIXTURE	[M]					Q4	2SC2787FL1TA	TRANSISTOR	
36	RMB0446	CASS OPEN SPRING	[M]					Q6	2SC2787LTA	TRANSISTOR	
37	RMN0351-1	FL HOLDER	[M]					Q7	RVTDTA143XST	TRANSISTOR	
39	RMR0653-K	HEAT SINK SUPPORT L	[M]					Q8	2SC1740SSTA	TRANSISTOR	
40	RMR0654-K	HEAT SINK SUPPORT R	[M]	IC1	LA1832A	IC, IF/MPX		Q9	2SC1740SSTA	TRANSISTOR	
41	RMR0741-X	PCB SUPPORT (PIN)	[M]	IC1	BA6418N	IC, DRIVER		Q10	2SC2785FETA	TRANSISTOR	
				IC2	LC7218	IC, PLL					
						INTEGRATED CIRCUITS					

Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
Q11	2SC2785FETA	TRANSISTOR		Q302	2SK301QTA	TRANSISTOR	[M]			DIODES	
Q12	2SC2787LTA	TRANSISTOR	(GCS,GC,GT)	Q303	2SC2785FTA	TRANSISTOR					
Q13	2SC2785FETA	TRANSISTOR	(GCS,GC,GT)	Q304	2SC2785FTA	TRANSISTOR		D1	SVC211SPA-AL	DIODE	
Q14	2SC2785FETA	TRANSISTOR	(GCS,GC,GT)	Q305	2SD1450STA	TRANSISTOR		D2	SVC211SPA-AL	DIODE	
Q15	2SA952LTA	TRANSISTOR	[M](GCS,GC,GT)	Q306	2SD1450STA	TRANSISTOR		D3	SVC211SPA-AL	DIODE	
Q16	2SA952LTA	TRANSISTOR	[M](GCS,GC,GT)	Q307	2SD1450STA	TRANSISTOR		D4	MTZJ5R1CTA	DIODE	[M]
Q17	2SA952LTA	TRANSISTOR	[M](GCS,GC,GT)	Q308	BN1A4MTA	TRANSISTOR	[M]	D5	RVD1SS133TA	DIODE	
Q18	2SA933SSTA	TRANSISTOR	(GCS,GC,GT)	Q309	BN1A4MTA	TRANSISTOR	[M]	D6	RVD SVC321	DIODE	(GCS,GC,GT)
Q19	2SA933SSTA	TRANSISTOR	(GCS,GC,GT)	Q311	BN1A4MTA	TRANSISTOR	[M]	D7	RVD SVC321	DIODE	(GCS,GC,GT)
Q20	2SA933SSTA	TRANSISTOR	(GCS,GC,GT)	Q401	BA1L3ZTA	TRANSISTOR	[M]	D8	RVD SVC321	DIODE	(GCS,GC,GT)
Q21	2SA952LTA	TRANSISTOR	[M](GCS,GC,GT)	Q402	2SD2037ETA	TRANSISTOR	[M] ⚠	D9	RVD SVC321	DIODE	(GCS,GC,GT)
Q22	2SC1740SSTA	TRANSISTOR	(GCS,GC,GT)	Q403	2SD2037ETA	TRANSISTOR	[M] ⚠	D10	RVD1SS133TA	DIODE	(GCS,GC,GT)
Q101	2SJ164QRTA	TRANSISTOR		Q404	2SD2037ETA	TRANSISTOR	[M] ⚠	D11	RVD1SS133TA	DIODE	(GCS,GC,GT)
Q102	2SJ164QRTA	TRANSISTOR		Q405	BA1F4MTA	TRANSISTOR	[M] ⚠	D12	RVD1SS133TA	DIODE	(GCS,GC,GT)
Q103	2SJ164QRTA	TRANSISTOR		Q406	2SB621ARTA	TRANSISTOR	⚠	D13	RVD1SS133TA	DIODE	(GCS,GC,GT)
Q104	2SJ164QRTA	TRANSISTOR		Q407	2SC2785FTA	TRANSISTOR		D171	1SS254TA	DIODE	
Q105	BA1L4ZTA	TRANSISTOR	[M]	Q409	2SB621ARTA	TRANSISTOR		D172	MTZJ4R7BTA	DIODE	
Q106	BA1L4ZTA	TRANSISTOR	[M]	Q410	2SC2785FTA	TRANSISTOR	⚠	D173	1SS254TA	DIODE	
Q107	BA1L4ZTA	TRANSISTOR	[M]	Q451	2SD1762E	TRANSISTOR	[M] ⚠	D174	MTZJ3R6BTA	DIODE	[M]
Q108	BA1L4ZTA	TRANSISTOR	[M]	Q453	2SD1762E	TRANSISTOR	[M] ⚠	D175	1SS254TA	DIODE	
Q109	BA1L3ZTA	TRANSISTOR	[M]	Q454	2SD1762E	TRANSISTOR	[M] ⚠	D201	1SS254TA	DIODE	
Q110	BA1L3ZTA	TRANSISTOR	[M]	Q501	2SC2785FTA	TRANSISTOR		D202	1SS254TA	DIODE	
Q115	2SD1020HTA	TRANSISTOR	[M]	Q502	2SD1762E	TRANSISTOR	[M] ⚠	D301	MTZJ6R8CTA	DIODE	
Q116	2SD1020HTA	TRANSISTOR	[M]	Q503	2SC2785FTA	TRANSISTOR		D303	1SS254TA	DIODE	
Q117	BA1L4MTA	TRANSISTOR	[M]	Q504	2SA933SSTA	TRANSISTOR	⚠	D304	1SS254TA	DIODE	
Q118	2SC2785FTA	TRANSISTOR		Q505	2SD1762E	TRANSISTOR	[M] ⚠	D308	1SS254TA	DIODE	
Q119	2SC2785FTA	TRANSISTOR		Q506	2SC2785FTA	TRANSISTOR		D401	1SS254TA	DIODE	
Q120	2SC2785FTA	TRANSISTOR		Q507	2SB1185E	TRANSISTOR	⚠	D402	1SS254TA	DIODE	
Q121	2SC2785FTA	TRANSISTOR		Q508	2SD1762E	TRANSISTOR	[M] ⚠	D403	MTZJ7R5CTA	DIODE	⚠
Q151	BA1L4ZTA	TRANSISTOR	[M]	Q509	2SD1762E	TRANSISTOR	[M] ⚠	D404	MTZJ6R8BTA	DIODE	⚠
Q152	BA1L4ZTA	TRANSISTOR	[M]	Q561	2SC2785FTA	TRANSISTOR		D405	1SS254TA	DIODE	
Q153	2SC1740SLNET	TRANSISTOR		Q562	2SC2785FTA	TRANSISTOR		D406	1SS254TA	DIODE	
Q154	2SC1740SLNET	TRANSISTOR		Q563	2SC2785FTA	TRANSISTOR		D407	MA167TA	DIODE	
Q171	2SD1302STA	TRANSISTOR		Q564	2SB621ARTA	TRANSISTOR		D408	1D3E	DIODE	[M]
Q173	BA1L4ZTA	TRANSISTOR	[M]	Q565	2SC2001KTA	TRANSISTOR		D409	1D3E	DIODE	[M]
Q174	2SC2785FTA	TRANSISTOR		Q567	2SC2785FTA	TRANSISTOR		D410	MTZJ33CTA	DIODE	[M]
Q175	2SD1302STA	TRANSISTOR		Q568	2SC2785FTA	TRANSISTOR		D413	MTZJ5R6BTA	DIODE	⚠
Q176	2SD1302STA	TRANSISTOR		Q601	BA1L4MTA	TRANSISTOR	[M]	D415	1D3E	DIODE	[M]
Q179	2SC2784FTA	TRANSISTOR	[M]	Q602	2SC2785FTA	TRANSISTOR		D416	1D3E	DIODE	[M]
Q203	2SD965RTA	TRANSISTOR		Q603	2SC2785FTA	TRANSISTOR		D417	1D3E	DIODE	[M]
Q204	2SK301QTA	TRANSISTOR	[M]	Q604	2SB621RTA	TRANSISTOR		D452	MTZJ13ATA	DIODE	⚠
Q205	BA1L4ZTA	TRANSISTOR	[M]	Q605	2SC2785FTA	TRANSISTOR		D501	RL154M11	DIODE	
Q206	2SB621RTA	TRANSISTOR		Q606	2SC2785FTA	TRANSISTOR		D502	RL154M11	DIODE	
Q207	2SB621RTA	TRANSISTOR		Q607	2SC2785FTA	TRANSISTOR		D503	1N5402BM21	DIODE	⚠
Q208	BA1A4ZTA	TRANSISTOR	[M]	Q612	2SC2785FTA	TRANSISTOR		D504	1N5402BM21	DIODE	⚠
Q209	BA1A4ZTA	TRANSISTOR	[M]	Q613	BN1A4MTA	TRANSISTOR	[M]	D505	1N5402BM21	DIODE	⚠
Q218	BN1A4MTA	TRANSISTOR	[M]	Q701	2SB709S	TRANSISTOR		D506	1N5402BM21	DIODE	⚠
Q220	BN1L3NTA	TRANSISTOR	[M]					D507	MTZJ12BTA	DIODE	
Q301	2SK301QTA	TRANSISTOR	[M]					D516	MTZJ15CTA	DIODE	

Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
D517	MTZJ15BTA	DIODE	[M]	D637	SLR325DCT31	DIODE		S614	EVQ21405R	SW, SHI. LEFT	
D518	MTZJ9R1ATA	DIODE		D638	SLR325DCT31	DIODE		S615	EVQ21405R	SW, SHI. RIGHT	
D561	1SS254TA	DIODE		D639	SLR-325MC	DIODE		S616	EVQ21405R	SW, KARAOKE	
D562	1SS254TA	DIODE		D640	SLR325DCT31	DIODE		S617	EVQ21405R	SW, REW/DOWN	
D563	1SS254TA	DIODE		D641	SLR325DCT31	DIODE		S618	EVQ21405R	SW, FF/UP	
D564	1SS254TA	DIODE		D642	SPR505MDTT	DIODE		S620	EVQ21405R	SW, STOP/TU MODE	
D565	1SS254TA	DIODE		D643	SPR505MDTT	DIODE		S621	EVQ21405R	SW, MRY/SET	
D566	1SS254TA	DIODE		D644	SPR505MDTT	DIODE		S622	EVQ21405R	SW, FM MODE/BP	
D567	MTZJ8R2BTA	DIODE	[M]	D645	SPR505MDTT	DIODE		S623	EVQ21405R	SW, DECK 1 OPEN	
D568	MTZJ11CTA	DIODE		D646	SPR505MDTT	DIODE		S624	EVQ21405R	SW, NOR. EDIT	
D569	MA700ATA	DIODE		D651	SLR-325MC	DIODE		S625	EVQ21405R	SW, HI SPEED EDIT	
D570	1SS254TA	DIODE		D652	SLR-325MC	DIODE		S626	EVQ21405R	SW, REC START	
D571	MTZJ20CTA	DIODE		D654	MA167TA	DIODE		S627	EVQ21405R	SW, REV MODE	
D601	1SS291TA	DIODE		D659	1SS254TA	DIODE		S628	EVQ21405R	SW, DECK 2 OPEN	
D602	1SS291TA	DIODE		D951	MA165TA	DIODE		S629	EVQ21405R	SW, DOLBY NR	
D603	1SS254TA	DIODE		D971	MA165TA	DIODE		S631	EVQ21405R	SW, OPEN /CLOSE	
D604	1SS254TA	DIODE						S632	EVQ21405R	SW, DISC CHECK	
D605	MA167TA	DIODE				VARIABLE RESISTORS		S633	EVQ21405R	SW, DISC 5	
D606	MA167TA	DIODE						S634	EVQ21405R	SW, DISC 4	
D607	MA167TA	DIODE		VR101	RRN6B05B24TA	SEMIFIXED VR		S635	EVQ21405R	SW, DISC 3	
D608	MA167TA	DIODE		VR102	RRN6B05B24TA	SEMIFIXED VR		S636	EVQ21405R	SW, DISC 2	
D609	MTZJ5R6BTA	DIODE		VR103	RRN6B05B24TA	SEMIFIXED VR		S637	EVQ21405R	SW, DISC 1	
D610	MA167TA	DIODE		VR104	RRN6B05B24TA	SEMIFIXED VR		S638	EVQ21405R	SW, DISP/DEMO	
D611	MA167TA	DIODE		VR201	RRN6B05B73TA	SEMIFIXED VR		S639	EVQ21405R	SW, AUX	
D612	MA167TA	DIODE		VR601	RRV09A03B14A	MIC VR		S640	EVQ21405R	SW, TUNER/BAND	
D613	MA167TA	DIODE	(GN)	VR602	RRV09A03B14A	MIC VR		S641	EVQ21405R	SW, CD	
D614	MA167TA	DIODE	(GN)	VR603	RRV16B24104B	JOG VR		S642	EVQ21405R	SW, TAPE/DECK 1/2	
D615	MTZJ5R1BTA	DIODE						S701	RSM0006-P	SW, RESET	
D616	1SS254TA	DIODE				SWITCHES		S951	RSH1A018-1U	SW,MODE DETECT	
D617	1SS254TA	DIODE						S952	RSH1A019-2U	SW,TAPE DETECT	
D618	1SS254TA	DIODE		S1	RSH1A005	SW, LEAF		S953	RSH1A019-2U	SW,Cr02 DETECT	
D619	SLR342MCTB7	DIODE		S2	RSH1A032-U	SW, MECHA		S971	RSH1A018-1U	SW,MODE DETECT	
D620	SLR342MCTB7	DIODE		S3	RSH1A032-U	SW, MECHA		S972	RSH1A019-2U	SW,TAPE DETECT	
D621	SLR342MCTB7	DIODE		S4	RSH1A005	SW, LEAF		S973	RSH1A019-2U	SW,Cr02 DETECT	
D622	SLR342MCTB7	DIODE		S5	RSH1A032-U	SW, MECHA		S974	RSH1A019-2U	SW,REC DETECT	
D623	SLR342DCTB7	DIODE		S501	ESB-8249V	SW, POWER		S975	RSH1A019-2U	SW,REC DETECT	
D624	SLR342DCTB7	DIODE		S502	ESE37263	VOLTAGE SELECTOR	(GC,GT)				
D625	SLR342DCTB7	DIODE		S601	EVQ21405R	SW, POWER				CONNECTORS	
D626	SLR342DCTB7	DIODE		S602	EVQ21405R	SW, PLAY TIMER					
D627	SLR-325MC	DIODE		S603	EVQ21405R	SW, REC TIMER		CN1	RJU063W07T	7P CONNECTOR	
D628	SLR-325MC	DIODE		S604	EVQ21405R	SW, RANDOM		CN1	RJS1A6714	CONNECTOR 14P	
D629	SLR-325MC	DIODE		S605	EVQ21405R	SW, REPEAT		CN2	RJU063W07T	7P CONNECTOR	
D630	SLR-325MC	DIODE		S606	EVQ21405R	SW, EASY EDIT		CN100	RJS1A5210	10 PINS WIRE HOLDER	[M]
D631	SLR-325MC	DIODE		S608	EVQ21405R	SW, TIMER/CLOCK		CN101	RJS1A5205	5P CONNECTOR	[M]
D632	SLR-325MC	DIODE		S609	EVQ21405R	SW, EQ/SPACE		CN201	RJS8T7ZA	8 PIN MOLEX	
D633	SLR-325MC	DIODE		S610	EVQ21405R	SW, G. EQ	(GCS,GN)	CN502	RJU005A012	12P FJ CONNECTOR SOC	
D634	SLR325DCT31	DIODE		S611	EVQ21405R	SW, V.BASS		CN503	RJU005A012	12P FJ CONNECTOR SOC	
D635	SLR325DCT31	DIODE		S612	EVQ21405R	SW, SHI. DOWN		CN504	RJS1A5205	5P CONNECTOR	[M]
D636	SLR-325MC	DIODE		S613	EVQ21405R	SW, SHI. UP		CN511	RJS3T6ZA	3P CONNECTOR	[M]

Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
CN512	RJS3T6ZA	3P CONNECTOR	[M]			COMPONENT COMBINATION		FC2	SJT388	FUSE CLIP	
CN601	RJU071H09M	CONNECTOR						FC3	SJT388	FUSE CLIP	(GC,GT)
CN602	RJU071H09M	CONNECTOR		Z1	RLA2Z002M-T	AM ANT. COIL		FC4	SJT388	FUSE CLIP	(GC,GT)
CN603	RJU077K20	20P B-B CONNECTOR	[M]	Z2	RLI2Z006M-T	AM IFT	(GN)				
CN604	RJU077K20	20P B-B CONNECTOR	[M]	Z101	EXBF7L355SVV	RADA RESISTOR				JACKS	
CN605	RJS1A5203	3P CONNECTOR		Z801	RCDHC-278N	REMOCON SENSOR					
CN605	RJS1A6223-1	23P CONNECTOR						JK1	RJH5301	FM ANT. TERMINAL	[M]
CN606	RJS1A6214-1	14P FFC CONNECTOR						JK2	SJS208	AM LOOP ANT TERMINAL	
CN701	RJU035T016-1	16 PIN FFC CONNECTOR						JK301	RJH3209N	RCA JACK	[M]
CN702	RJS1A6723-1Q	23 PIN FFC CONNECTOR		CF1	RLFFETWNA01L	FM CF		JK500	SJSD16-1	AC INLET	(GN)▲
CP1	RJT063W07T	7P CONNECTOR (CD-G)		CF2	RLFFETWNA01L	FM CF		JK500	SJS9236	SOCKET	(GCS,GC,GT)▲
CP2	RJT063W07T	7P CONNECTOR (CD-G)		CF3	RVFSFZ450HL3	AM CF	[M](GCS,GC,GT)	JK501	RJR0054	SP TERMINAL	
CP101	RJT071H09A	9P B-B PIN						JK601	RJJ37TK04-C	HP JACK	
CP102	RJT071H09A	9P B-B PIN						JK602	RJU34MK01-C	MIC JACK	
CP501	RJP8G18ZA	8P CONNECTOR (2.0)						JK603	RJJ34MK01-C	MIC JACK	
CP502	RJT005W012	12P FJ CONNECTOR		X1	RSXZ456KM01	19KHZ OSC					
CP503	RJT005W012	12P FJ CONNECTOR		X2	RLFDFT12DD	FM RESONATOR				WIRE	
CP505	RJP2G4YA	CONNECTOR		X3	SVQ49U722T-S	OSC					
CP601	RJT071H09A	9P B-B PIN		X601	RSXD32K7S02	32.768HKZ XTAL	[M]	W501	REX0773	8P WIRE	[M]
CP602	RJT071H09A	9P B-B PIN		X602	EF0EN6004T4	CERAMIC OSC	[M]				
CP603	RJT077K20	20P B-B CONNECTOR	[M]	X603	RSXB375KM01M	CERAMIC OSC				CHIP JUMPERS	
CP604	RJT077K20	20P B-B CONNECTOR	[M]	X701	RSXZ16M9M01T	CERAMIC OSC					
CS101	RJS1A6805-J	HEAD SOCKET	[M]					RJ701	ERJ8GEY0R00A	0 1/8W	
CS102	RJS1A6805-J	HEAD SOCKET	[M]					RJ702	ERJ8GEY0R00A	0 1/8W	
CS951	RJU071H09M1	9P CONNECTOR	[M]					RJ703	ERJ8GEY0R00A	0 1/8W	
CS971	RJU071H09M1	9P CONNECTOR	[M]	E500	SNE1004-2	EARTH TERMINAL		RJ704	ERJ8GEY0R00A	0 1/8W	
								RJ707	ERJ8GEY0R00A	0 1/8W	
		COILS & TRANSFORMERS						RJ709	ERJ8GEY0R00A	0 1/8W	
								RJ714	ERJ8GEY0R00A	0 1/8W	
L1	RLQZP1R2KT-Y	COIL		RLY501	RSY0017-0	RELAY	[M]▲	RJ715	ERJ8GEY0R00A	0 1/8W	
L2	RLQZPR47KT-Y	COIL						RJ716	ERJ8GEY0R00A	0 1/8W	
L3	RLQZPR47KT-Y	COIL	(GN)					RJ717	ERJ8GEY0R00A	0 1/8W	
L3	RLQZPR68KT-Y	AXIAL COIL	(GCS,GC,GT)					RJ721	ERJ8GEY0R00A	0 1/8W	
L4	ELEPKR68MA	COIL		FL601	RSL0210-F	FL		RJ722	ERJ8GEY0R00A	0 1/8W	
L5	ELEPKR68MA	COIL						RJ723	ERJ8GEY0R00A	0 1/8W	
L6	ELELN822KL	RF CHOKE COIL						RJ724	ERJ8GEY0R00A	0 1/8W	
L7	ELELN822KL	RF CHOKE COIL						RJ725	ERJ8GEY0R00A	0 1/8W	
L8	RLQZP1R0KT-Y	AXIAL COIL		FP1	RSFMB40KT-L	FUSE PROTECTOR	▲	RJ726	ERJ8GEY0R00A	0 1/8W	
L9	RL03B98-M	SW1 ANT COIL	[M](GCS,GC,GT)	FP2	RSFMB40KT-L	FUSE PROTECTOR	▲	RJ727	ERJ8GEY0R00A	0 1/8W	
L10	RL03B99-M	SW2 OSC COIL	[M](GCS,GC,GT)					RJ728	ERJ8GEY0R00A	0 1/8W	
L11	RL03B98-M	SW1 ANT COIL	[M](GCS,GC,GT)					RJ729	ERJ8GEY0R00A	0 1/8W	
L12	RL03B99-M	SW2 OSC COIL	[M](GCS,GC,GT)					RJ730	ERJ8GEY0R00A	0 1/8W	
L201	RL08C002M-T	BIAS OSC COIL		F1	XBA2C31TB0	FUSE	(GC,GT)▲				
L202	RLQZB470KT-D	RF CHOKE COIL		F1	XBA2C16TB0	FUSE	(GCS,GN)▲			TEST JUMPERS	
L601	RLQZP3R3KT-Y	COIL		F2	XBA2C16TB0	FUSE	(GC,GT)▲				
T1	RLI2B153-M	COIL	(GCS,GC,GT)					TJ701	EYF8CU	TEST JUMPER	
T501	RTP1N3E008-V	POWER TRANSFORMER	[M](GCS,GN)▲					TJ702	EYF8CU	TEST JUMPER	
T501	RTP1N3E007-V	POWER TRANSFORMER	[M](GC,GT)▲								
				FC1	SJT388	FUSE CLIP					

Resistors & Capacitors

Notes :

- * Capacitor values are in microfarads (μF) unless specified otherwise, P=Pico-farads (pF), F=Farads.
- * Resistance values are in ohms, unless specified otherwise, 1K=1,000 (OHM).
- * Bracketed indications in Values & Remarks columns specify the area (Refer to the first page for area).
- Parts without these indications can be used for all areas.
- * [M] Indicates in the values & remarks column indicates parts supplied by MESA

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
		RESISTORS									
			R46	ERDS2TJ104T	100K 1/4W	R104	ERDS2TJ153T	15K 1/4W	R154	ERDS2TJ102T	1K 1/4W
			R47	ERDS2TJ562T	5.6K 1/4W	R105	ERDS2TJ271T	270 1/4W	R155	ERDS2TJ681T	680 1/4W
R1	ERDS2TJ104T	100K 1/4W	R48	ERDS2TJ391T	390 1/4W	R106	ERDS2TJ222T	2.2K 1/4W	R156	ERDS2TJ681T	680 1/4W
R2	ERDS2TJ104T	100K 1/4W	R49	ERDS2TJ561T	560 1/4W	R107	ERDS2TJ330T	33 1/4W	R158	ERDS2TJ221T	220 1/4W
R3	ERDS2TJ221T	220 1/4W	R50	ERDS2TJ102T	1K 1/4W	R108	ERDS2TJ330T	33 1/4W	R159	ERDS2TJ222T	2.2K 1/4W
R4	ERDS2TJ104T	100K 1/4W	R51	ERDS2TJ103T	10K 1/4W	R109	ERDS2TJ432T	4.3K 1/4W	R160	ERDS2TJ222T	2.2K 1/4W
R5	ERDS2TJ564T	560K 1/4W	R52	ERDS2TJ102T	1K 1/4W	R110	ERDS2TJ432T	4.3K 1/4W	R161	ERDS2TJ472T	4.7K 1/4W
R6	ERDS2TJ391T	390 1/4W	R53	ERDS2TJ102T	1K 1/4W	R111	ERDS2TJ222T	2.2K 1/4W	R162	ERDS2TJ472T	4.7K 1/4W
R7	ERDS2TJ272T	2.7K 1/4W	R54	ERDS2TJ102T	1K 1/4W	R112	ERDS2TJ222T	2.2K 1/4W	R163	ERDS2TJ433T	43K 1/4W
R8	ERDS2TJ684T	680K 1/4W	R55	ERDS2TJ102T	1K 1/4W	R113	ERDS2TJ122T	1.2K 1/4W	R165	ERDS2TJ563T	56K 1/4W
R9	ERDS2TJ391T	390 1/4W	R56	ERDS2TJ102T	1K 1/4W	R114	ERDS2TJ122T	1.2K 1/4W	R166	ERDS2TJ104T	100K 1/4W
R10	ERDS2TJ391T	390 1/4W	R57	ERDS2TJ103T	10K 1/4W	R115	ERDS2TJ474T	470K 1/4W	R167	ERDS2TJ470T	47 1/4W
R11	ERDS2TJ684T	680K 1/4W	R58	ERDS2TJ103T	10K 1/4W	R116	ERDS2TJ474T	470K 1/4W	R170	ERDS2TJ102T	1K 1/4W
R15	ERDS2TJ181T	180 1/4W	R60	ERDS2TJ563T	56K 1/4W	R117	ERDS2TJ274T	270K 1/4W	R172	ERDS2TJ331T	330 1/4W
R16	ERDS2TJ102T	1K 1/4W (GN)	R61	ERDS2TJ102T	1K 1/4W (GN)	R118	ERDS2TJ274T	270K 1/4W	R173	ERDS2TJ103T	10K 1/4W
R17	ERDS2TJ331T	330 1/4W	R61	ERDS2TJ472T	4.7K 1/4W(GCS,GC,GT)	R121	ERDS2TJ333T	33K 1/4W	R174	ERDS2TJ103T	10K 1/4W
R18	ERDS2TJ471T	470 1/4W	R63	ERDS2TJ102T	1K 1/4W	R122	ERDS2TJ333T	33K 1/4W	R176	ERDS2TJ822T	8.2K 1/4W
R19	ERDS2TJ224T	220K 1/4W (GN)	R64	ERDS2TJ820T	82 1/4W	R123	ERDS2TJ103T	10K 1/4W	R177	ERDS2TJ472T	4.7K 1/4W
R19	ERDS2TJ474T	470K 1/4W(GCS,GC,GT)	R65	ERDS2TJ103T	10K 1/4W	R124	ERDS2TJ103T	10K 1/4W	R178	ERDS2TJ1R2T	1.2 1/4W
R20	ERDS2TJ562T	5.6K 1/4W	R76	ERDS2TJ331T	330 1/4W(GCS,GC,GT)	R125	ERDS2TJ102T	1K 1/4W	R179	ERDS2TJ472T	4.7K 1/4W
R21	ERDS2TJ822T	8.2K 1/4W	R77	ERDS2TJ474T	470K 1/4W(GCS,GC,GT)	R126	ERDS2TJ102T	1K 1/4W	R180	ERDS2TJ472T	4.7K 1/4W
R22	ERDS2TJ473T	47K 1/4W	R80	ERDS2TJ102T	1K 1/4W(GCS,GC,GT)	R127	ERDS2TJ821T	820 1/4W	R181	ERDS2TJ332T	3.3K 1/4W
R23	ERDS2TJ332T	3.3K 1/4W	R81	ERDS2TJ332T	3.3K 1/4W(GCS,GC,GT)	R128	ERDS2TJ821T	820 1/4W	R182	ERDS2TJ1R0T	1 1/4W
R24	ERDS2TJ472T	4.7K 1/4W	R82	ERDS2TJ103T	10K 1/4W(GCS,GC,GT)	R129	ERDS2TJ822T	8.2K 1/4W	R183	ERDS2TJ104T	100K 1/4W
R25	ERDS2TJ271T	270 1/4W	R83	ERDS2TJ562T	5.6K 1/4W(GCS,GC,GT)	R130	ERDS2TJ822T	8.2K 1/4W	R184	ERDS2TJ104T	100K 1/4W
R26	ERDS2TJ471T	470 1/4W	R84	ERDS2TJ104T	100K 1/4W(GCS,GC,GT)	R131	ERDS2TJ683T	68K 1/4W	R185	ERDS2TJ104T	100K 1/4W
R27	ERDS2TJ272T	2.7K 1/4W	R85	ERDS2TJ104T	100K 1/4W(GCS,GC,GT)	R132	ERDS2TJ335T	3.3M 1/4W	R186	ERDS2TJ102T	1K 1/4W
R28	ERDS2TJ473T	47K 1/4W	R86	ERDS2TJ104T	100K 1/4W(GCS,GC,GT)	R133	ERDS2TJ332T	3.3K 1/4W	R188	ERDS2TJ102T	1K 1/4W
R29	ERDS2TJ680T	68 1/4W	R87	ERDS2TJ104T	100K 1/4W(GCS,GC,GT)	R134	ERDS2TJ474T	470K 1/4W	R189	ERDS2TJ472T	4.7K 1/4W
R32	ERDS2TJ272T	2.7K 1/4W	R88	ERDS2TJ153T	15K 1/4W(GCS,GC,GT)	R137	ERDS2TJ103T	10K 1/4W	R190	ERDS2TJ104T	100K 1/4W
R33	ERDS2TJ272T	2.7K 1/4W	R89	ERDS2TJ103T	10K 1/4W(GCS,GC,GT)	R138	ERDS2TJ103T	10K 1/4W	R191	ERDS2TJ563T	56K 1/4W
R34	ERDS2TJ103T	10K 1/4W	R90	ERDS2TJ153T	15K 1/4W(GCS,GC,GT)	R139	ERDS2TJ103T	10K 1/4W	R192	ERDS2TJ470T	47 1/4W
R35	ERDS2TJ103T	10K 1/4W	R91	ERDS2TJ333T	33K 1/4W(GCS,GC,GT)	R141	ERDS2TJ682T	6.8K 1/4W	R193	ERDS2TJ104T	100K 1/4W
R36	ERDS2TJ474T	470K 1/4W	R92	ERDS2TJ103T	10K 1/4W(GCS,GC,GT)	R142	ERDS2TJ682T	6.8K 1/4W	R194	ERDS2TJ104T	100K 1/4W
R37	ERDS2TJ474T	470K 1/4W	R93	ERDS2TJ333T	33K 1/4W(GCS,GC,GT)	R143	ERDS2TJ222T	2.2K 1/4W	R195	ERDS2TJ104T	100K 1/4W
R38	ERDS2TJ272T	2.7K 1/4W	R94	ERDS2TJ153T	15K 1/4W(GCS,GC,GT)	R144	ERDS2TJ222T	2.2K 1/4W	R206	ERDS2TJ221T	220 1/4W
R39	ERDS2TJ272T	2.7K 1/4W	R95	ERDS2TJ563T	56K 1/4W(GCS,GC,GT)	R145	ERDS2TJ103T	10K 1/4W	R208	ERDS2TJ123T	12K 1/4W
R40	ERDS2TJ391T	390 1/4W	R96	ERDS2TJ563T	56K 1/4W(GCS,GC,GT)	R146	ERDS2TJ103T	10K 1/4W	R209	ERDS2TJ123T	12K 1/4W
R41	ERDS2TJ102T	1K 1/4W	R97	ERDS2TJ103T	10K 1/4W(GCS,GC,GT)	R149	ERDS2TJ272T	2.7K 1/4W	R210	ERDS2TJ272T	2.7K 1/4W
R42	ERDS2TJ102T	1K 1/4W	R98	ERDS2TJ274T	270K 1/4W(GCS,GC,GT)	R150	ERDS2TJ272T	2.7K 1/4W	R211	ERDS2TJ334T	330K 1/4W
R43	ERDS2TJ102T	1K 1/4W	R101	ERDS2TJ334T	330K 1/4W	R151	ERDS2TJ105T	1M 1/4W	R212	ERDS2TJ123T	12K 1/4W
R44	ERDS2TJ102T	1K 1/4W	R102	ERDS2TJ104T	100K 1/4W	R152	ERDS2TJ105T	1M 1/4W	R213	ERDS2TJ152T	1.5K 1/4W
R45	ERDS2TJ102T	1K 1/4W	R103	ERDS2TJ153T	15K 1/4W	R153	ERDS2TJ102T	1K 1/4W	R215	ERDS2TJ222T	2.2K 1/4W

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
R216	ERDS2TJ222T	2.2K 1/4W	R335	ERDS2TJ563T	56K 1/4W	R415	ERDS2TJ102T	1K 1/4W	R522	ERDS1FVJ2R2T	2.2 1/2W ⚠
R220	ERDS2TJ472T	4.7K 1/4W	R336	ERDS2TJ563T	56K 1/4W	R416	ERDS2TJ183T	18K 1/4W	R525	ERDS1FVJ220T	22 1/2W ⚠
R221	ERDS2TJ2R7T	2.7 1/4W	R337	ERDS2TJ272T	2.7K 1/4W	R417	ERDS2TJ183T	18K 1/4W	R527	ERDS2TJ472T	4.7K 1/4W
R225	ERDS2TJ2R7T	2.7 1/4W	R338	ERDS2TJ272T	2.7K 1/4W	R418	ERDS1FVJ181T	180 1/2W ⚠	R528	ERDS2TJ151T	150 1/4W
R226	ERDS2TJ102T	1K 1/4W	R339	ERDS1FVJ820T	82 1/2W ⚠	R419	ERDS2TJ682T	6.8K 1/4W	R529	ERDS1FVJ2R2T	2.2 1/2W ⚠
R227	ERDS2TJ102T	1K 1/4W	R340	ERDS1FVJ820T	82 1/2W ⚠	R420	ERDS1FVJ181T	180 1/2W ⚠	R530	ERDS2TJ681T	680 1/4W
R228	ERDS2TJ472T	4.7K 1/4W	R341	ERDS2TJ472T	4.7K 1/4W	R421	ERDS2TJ333T	33K 1/4W	R531	ERDS2TJ151T	150 1/4W
R229	ERDS2TJ103T	10K 1/4W	R342	ERDS2TJ472T	4.7K 1/4W	R422	ERDS2TJ331T	330 1/4W	R532	ERDS2TJ222T	2.2K 1/4W
R230	ERDS2TJ472T	4.7K 1/4W	R343	ERDS2TJ182T	1.8K 1/4W	R423	ERDS2TJ223T	22K 1/4W	R533	ERDS2TJ472T	4.7K 1/4W
R231	ERDS2TJ102T	1K 1/4W	R344	ERDS2TJ182T	1.8K 1/4W	R424	ERDS2TJ331T	330 1/4W	R534	ERDS1FVJ2R2T	2.2 1/2W ⚠
R232	ERDS2TJ102T	1K 1/4W	R345	ERDS2TJ152T	1.5K 1/4W	R427	ERDS2TJ103T	10K 1/4W	R535	ERDS1FVJ1R0T	1 1/2W ⚠
R233	ERDS2TJ222T	2.2K 1/4W	R346	ERDS2TJ152T	1.5K 1/4W	R431	ERDS2TJ391T	390 1/4W	R537	ERDS2TJ151T	150 1/4W
R234	ERDS2TJ472T	4.7K 1/4W	R347	ERDS2TJ102T	1K 1/4W	R432	ERDS2TJ391T	390 1/4W	R538	ERDS1FVJ1R0T	1 1/2W ⚠
R235	ERDS2TJ472T	4.7K 1/4W	R348	ERDS2TJ102T	1K 1/4W	R433	ERDS2TJ562T	5.6K 1/4W	R539	ERDS1FVJ390T	39 1/2W ⚠
R236	ERDS2TJ472T	4.7K 1/4W	R349	ERDS2TJ104T	100K 1/4W	R434	ERDS2TJ562T	5.6K 1/4W	R541	ERDS1FVJ220T	22 1/2W ⚠
R301	ERDS2TJ223T	22K 1/4W	R350	ERDS2TJ104T	100K 1/4W	R435	ERDS2TJ332T	3.3K 1/4W	R542	ERDS1FVJ220T	22 1/2W ⚠
R302	ERDS2TJ223T	22K 1/4W	R351	ERDS2TJ473T	47K 1/4W	R436	ERDS2TJ471T	470 1/4W	R544	ERDS2TJ151T	150 1/4W
R303	ERDS2TJ822T	8.2K 1/4W	R352	ERDS2TJ474T	470K 1/4W	R437	ERDS2TJ224T	220K 1/4W	R545	ERDS2TJ1R0T	1 1/4W
R304	ERDS2TJ822T	8.2K 1/4W	R353	ERDS2TJ105T	1M 1/4W	R438	ERDS2TJ224T	220K 1/4W	R546	ERDS2TJ1R0T	1 1/4W
R305	ERDS2TJ222T	2.2K 1/4W	R354	ERDS2TJ153T	15K 1/4W	R452	ERDS2TJ471T	470 1/4W	R547	ERDS2TJ1R0T	1 1/4W
R306	ERDS2TJ222T	2.2K 1/4W	R355	ERDS2TJ182T	1.8K 1/4W	R457	ERDS2TJ1R0T	1 1/4W	R553	ERDS1FVJ2R2T	2.2 1/2W ⚠
R307	ERDS2TJ332T	3.3K 1/4W	R356	ERDS2TJ334T	330K 1/4W	R458	ERDS2TJ1R0T	1 1/4W	R554	ERDS1FVJ2R2T	2.2 1/2W ⚠
R308	ERDS2TJ332T	3.3K 1/4W	R357	ERDS2TJ105T	1M 1/4W	R466	ERDS2TJ1R0T	1 1/4W	R555	ERDS1FVJ2R2T	2.2 1/2W ⚠
R309	ERDS2TJ222T	2.2K 1/4W	R358	ERDS2TJ222T	2.2K 1/4W	R491	ERDS2TJ222T	2.2K 1/4W	R556	ERDS1FVJ2R2T	2.2 1/2W ⚠
R310	ERDS2TJ222T	2.2K 1/4W	R359	ERDS2TJ682T	6.8K 1/4W	R492	ERDS2TJ222T	2.2K 1/4W	R557	ERDS1FVJ2R2T	2.2 1/2W ⚠
R311	ERDS2TJ392T	3.9K 1/4W	R360	ERDS2TJ103T	10K 1/4W	R493	ERDS2TJ474T	470K 1/4W	R561	ERDS2TJ103T	10K 1/4W
R312	ERDS2TJ392T	3.9K 1/4W	R383	ERDS2TJ224T	220K 1/4W	R494	ERDS2TJ474T	470K 1/4W	R562	ERDS2TJ103T	10K 1/4W
R313	ERDS2TJ562T	5.6K 1/4W	R384	ERDS2TJ224T	220K 1/4W	R495	ERDS2TJ474T	470K 1/4W	R563	ERDS2TJ224T	220K 1/4W
R314	ERDS2TJ562T	5.6K 1/4W	R386	ERDS2TJ102T	1K 1/4W	R501	ERDS2TJ102T	1K 1/4W	R564	ERDS2TJ224T	220K 1/4W
R315	ERDS2TJ332T	3.3K 1/4W	R387	ERDS2TJ102T	1K 1/4W	R502	ERDS2TJ102T	1K 1/4W	R565	ERDS2TJ183T	18K 1/4W
R316	ERDS2TJ332T	3.3K 1/4W	R391	ERDS2TJ102T	1K 1/4W	R503	ERDS2TJ683T	68K 1/4W	R566	ERDS2TJ104T	100K 1/4W
R317	ERDS2TJ104T	100K 1/4W	R392	ERDS2TJ392T	3.9K 1/4W	R504	ERDS2TJ683T	68K 1/4W	R567	ERDS2TJ103T	10K 1/4W
R318	ERDS2TJ104T	100K 1/4W	R393	ERDS2TJ102T	1K 1/4W	R505	ERDS2TJ682T	6.8K 1/4W	R568	ERDS2TJ152T	1.5K 1/4W
R319	ERDS2TJ103T	10K 1/4W	R394	ERDS2TJ153T	15K 1/4W	R506	ERDS2TJ682T	6.8K 1/4W	R569	ERDS2TJ273T	27K 1/4W
R320	ERDS2TJ474T	470K 1/4W	R397	ERDS2TJ562T	5.6K 1/4W	R507	ERDS2TJ683T	68K 1/4W	R570	ERDS2TJ103T	10K 1/4W
R321	ERDS2TJ332T	3.3K 1/4W	R399	ERDS2TJ472T	4.7K 1/4W	R508	ERDS2TJ683T	68K 1/4W	R571	ERDS2TJ103T	10K 1/4W
R322	ERDS2TJ332T	3.3K 1/4W	R401	ERDS2TJ103T	10K 1/4W	R509	ERDS1FVJ100T	10 1/2W ⚠	R572	ERDS2TJ335T	3.3M 1/4W
R323	ERDS2TJ102T	1K 1/4W	R402	ERDS2TJ333T	33K 1/4W	R510	ERDS1FVJ100T	10 1/2W ⚠	R573	ERDS2TJ104T	100K 1/4W
R324	ERDS2TJ102T	1K 1/4W	R403	ERDS2TJ223T	22K 1/4W	R511	ERDS2TJ823T	82K 1/4W	R574	ERDS2TJ101T	100 1/4W
R325	ERDS2TJ563T	56K 1/4W	R404	ERDS2TJ8R2T	8.2 1/4W	R512	ERDS2TJ124T	120K 1/4W	R575	ERDS2TJ561T	560 1/4W
R326	ERDS2TJ563T	56K 1/4W	R406	ERDS2TJ8R2T	8.2 1/4W	R513	ERDS2TJ334T	330K 1/4W	R577	ERDS1FVJ100T	10 1/2W ⚠
R327	ERDS2TJ472T	4.7K 1/4W	R407	ERDS2TJ331T	330 1/4W	R514	ERDS2TJ563T	56K 1/4W	R578	ERDS2TJ124T	120K 1/4W
R328	ERDS2TJ472T	4.7K 1/4W	R408	ERDS2TJ151T	150 1/4W	R515	ERDS2TJ103T	10K 1/4W	R579	ERDS1FVJ4R7T	4.7 1/2W ⚠
R329	ERDS2TJ681T	680 1/4W	R409	ERDS2TJ221T	220 1/4W	R516	ERD25FVJ470T	47 1/4W (GC,GT)	R580	ERDS1FVJ4R7T	4.7 1/2W ⚠
R330	ERDS2TJ681T	680 1/4W	R410	ERDS1FVJ390T	39 1/2W ⚠	R516	ERD2FCV470T	47 1/4W (GC,SGN)	R581	ERDS2TJ101T	100 1/4W
R331	ERDS2TJ152T	1.5K 1/4W	R411	ERDS1FVJ390T	39 1/2W ⚠	R517	ERDS2TJ563T	56K 1/4W	R582	ERDS2TJ223T	22K 1/4W
R332	ERDS2TJ472T	4.7K 1/4W	R412	ERDS1FVJ390T	39 1/2W ⚠	R518	ERDS1FVJ390T	39 1/2W ⚠	R583	ERDS2TJ473T	47K 1/4W
R333	ERDS2TJ122T	1.2K 1/4W	R413	ERDS2TJ102T	1K 1/4W	R519	ERDS1FVJ390T	39 1/2W ⚠	R584	ERDS2TJ472T	4.7K 1/4W
R334	ERDS2TJ122T	1.2K 1/4W	R414	ERDS2TJ151T	150 1/4W	R521	ERDS1FVJ222T	2.2K 1/2W ⚠	R601	ERDS2TJ103T	10K 1/4W

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
R602	ERDS2TJ222T	2.2K 1/4W	R655	ERDS2TJ330T	33 1/4W	R707	ERDS2TJ682T	6.8K 1/4W	R738	ERDS2TJ431T	430 1/4W
R603	ERDS2TJ102T	1K 1/4W	R656	ERDS2TJ151T	150 1/4W	R707	ERJ6GEYJ474V	470K 1/10W	R738	ERJ6GEYJ223V	22K 1/10W
R604	ERDS2TJ561T	560 1/4W	R657	ERDS2TJ273T	27K 1/4W	R708	ERDS2TJ103T	10K 1/4W	R739	ERDS2TJ431T	430 1/4W
R605	ERDS2TJ104T	100K 1/4W	R658	ERDS2TJ223T	22K 1/4W	R708	ERJ6GEYJ154V	150K 1/10W	R740	ERDS2TJ221T	220 1/4W
R606	ERDS2TJ104T	100K 1/4W	R660	ERDS2TJ822T	8.2K 1/4W	R709	ERDS2TJ223T	22K 1/4W	R741	ERDS2TJ431T	430 1/4W
R607	ERDS2TJ103T	10K 1/4W	R661	ERDS2TJ105T	1M 1/4W	R709	ERJ6GEYJ683V	68K 1/10W	R741	ERJ6GEYJ562V	5.6K 1/10W
R608	ERDS2TJ103T	10K 1/4W	R662	ERDS2TJ102T	1K 1/4W	R711	ERDS2TJ102T	1K 1/4W	R742	ERDS2TJ221T	220 1/4W
R611	ERDS2TJ473T	47K 1/4W	R663	ERDS2TJ472T	4.7K 1/4W	R711	ERJ6GEYJ154V	150K 1/10W	R742	ERJ6GEYJ562V	5.6K 1/10W
R612	ERDS2TJ103T	10K 1/4W	R664	ERDS2TJ472T	4.7K 1/4W	R712	ERDS2TJ102T	1K 1/4W	R743	ERDS2TJ431T	430 1/4W
R613	ERDS2TJ102T	1K 1/4W	R665	ERDS2TJ101T	100 1/4W	R712	ERJ6GEYJ221V	220 1/10W	R743	ERJ6GEYJ562V	5.6K 1/10W
R614	ERDS2TJ102T	1K 1/4W	R666	ERDS2TJ222T	2.2K 1/4W	R713	ERDS2TJ122T	1.2K 1/4W	R744	ERDS2TJ104T	100K 1/4W
R616	ERDS2TJ103T	10K 1/4W	R667	ERDS2TJ472T	4.7K 1/4W	R714	ERDS2TJ182T	1.8K 1/4W	R744	ERJ6GEYJ103V	10K 1/10W
R617	ERDS2TJ106T	10M 1/4W	R668	ERDS2TJ105T	1M 1/4W	R715	ERDS2TJ222T	2.2K 1/4W	R745	ERDS2TJ472T	4.7K 1/4W
R618	ERDS2TJ334T	330K 1/4W	R669	ERDS2TJ821T	820 1/4W	R716	ERDS2TJ272T	2.7K 1/4W	R745	ERJ6GEYJ155V	1.5M 1/10W
R619	ERDS2TJ681T	680 1/4W	R670	ERDS2TJ222T	2.2K 1/4W	R717	ERDS2TJ472T	4.7K 1/4W	R746	ERDS2TJ472T	4.7K 1/4W
R620	ERDS2TJ472T	4.7K 1/4W	R671	ERDS2TJ472T	4.7K 1/4W	R717	ERJ6GEYJ102V	1K 1/10W	R747	ERDS2TJ681T	680 1/4W
R621	ERDS2TJ472T	4.7K 1/4W	R672	ERDS2TJ101T	100 1/4W	R718	ERDS2TJ682T	6.8K 1/4W	R748	ERDS2TJ681T	680 1/4W
R622	ERDS2TJ103T	10K 1/4W	R673	ERDS2TJ472T	4.7K 1/4W	R718	ERJ6GEYJ102V	1K 1/10W	R748	ERJ6GEYJ182V	1.8K 1/10W
R623	ERDS2TJ103T	10K 1/4W	R674	ERDS2TJ474T	470K 1/4W	R719	ERDS2TJ103T	10K 1/4W	R749	ERDS2TJ681T	680 1/4W
R624	ERDS2TJ103T	10K 1/4W	R675	ERDS2TJ472T	4.7K 1/4W	R719	ERJ6GEYJ102V	1K 1/10W	R749	ERJ6GEYJ682V	6.8K 1/10W
R625	ERDS2TJ101T	100 1/4W	R676	ERDS2TJ471T	470 1/4W	R720	ERDS2TJ223T	22K 1/4W	R750	ERDS2TJ681T	680 1/4W
R626	ERDS2TJ101T	100 1/4W	R677	ERDS2TJ104T	100K 1/4W	R720	ERJ6GEYJ102V	1K 1/10W	R750	ERJ6GEYJ473V	47K 1/10W
R627	ERDS2TJ104T	100K 1/4W	R681	ERDS2TJ272T	2.7K 1/4W	R721	ERDS2TJ683T	68K 1/4W	R751	ERDS2TJ681T	680 1/4W
R628	ERDS2TJ104T	100K 1/4W	R682	ERDS2TJ272T	2.7K 1/4W	R721	ERJ6GEYJ101V	100 1/10W	R751	ERJ6GEYJ473V	47K 1/10W
R629	ERDS2TJ104T	100K 1/4W	R683	ERDS2TJ471T	470 1/4W	R722	ERDS2TJ102T	1K 1/4W	R752	ERDS2TJ681T	680 1/4W
R630	ERDS2TJ104T	100K 1/4W	R684	ERDS2TJ471T	470 1/4W	R722	ERJ6GEYJ563V	56K 1/10W	R752	ERJ6GEYJ220V	22 1/8W
R631	ERDS2TJ104T	100K 1/4W	R685	ERDS2TJ223T	22K 1/4W	R723	ERDS2TJ102T	1K 1/4W	R753	ERDS2TJ681T	680 1/4W
R632	ERDS2TJ104T	100K 1/4W	R686	ERDS2TJ223T	22K 1/4W	R723	ERJ6GEYJ182V	1.8K 1/10W	R754	ERDS2TJ681T	680 1/4W
R633	ERDS2TJ104T	100K 1/4W	R687	ERDS2TJ103T	10K 1/4W	R724	ERDS2TJ122T	1.2K 1/4W	R755	ERDS2TJ681T	680 1/4W
R634	ERDS2TJ104T	100K 1/4W	R690	ERDS2TJ271T	270 1/4W	R724	ERJ6GEYJ333V	33K 1/10W	R756	ERDS2TJ681T	680 1/4W
R635	ERDS2TJ223T	22K 1/4W	R691	ERDS2TJ221T	220 1/4W	R725	ERDS2TJ182T	1.8K 1/4W	R757	ERDS2TJ681T	680 1/4W
R636	ERDS2TJ331T	330 1/4W	R694	ERDS2TJ182T	1.8K 1/4W	R725	ERJ6GEYJ472V	4.7K 1/10W	R758	ERDS2TJ681T	680 1/4W
R638	ERDS2TJ103T	10K 1/4W	R695	ERDS2TJ222T	2.2K 1/4W	R726	ERDS2TJ222T	2.2K 1/4W	R759	ERDS2TJ820T	82 1/4W
R639	ERDS2TJ103T	10K 1/4W	R696	ERDS2TJ272T	2.7K 1/4W	R726	ERJ6GEYJ473V	47K 1/10W	R760	ERDS2TJ820T	82 1/4W
R640	ERDS2TJ103T	10K 1/4W	R697	ERDS2TJ472T	4.7K 1/4W	R727	ERDS2TJ272T	2.7K 1/4W	R761	ERDS2TJ820T	82 1/4W
R641	ERDS2TJ103T	10K 1/4W	R698	ERDS2TJ682T	6.8K 1/4W	R727	ERJ6GEYJ822V	8.2K 1/10W	R762	ERDS2TJ820T	82 1/4W
R642	ERDS2TJ473T	47K 1/4W	R699	ERDS2TJ473T	47K 1/4W	R728	ERDS2TJ472T	4.7K 1/4W	R763	ERDS2TJ820T	82 1/4W
R643	ERDS2TJ473T	47K 1/4W	R700	ERDS2TJ102T	1K 1/4W	R728	ERJ6GEYJ103V	10K 1/10W	R764	ERDS2TJ820T	82 1/4W
R644	ERDS2TJ101T	100 1/4W	R701	ERDS2TJ102T	1K 1/4W	R729	ERDS2TJ682T	6.8K 1/4W	R765	ERDS2TJ820T	82 1/4W
R645	ERDS2TJ101T	100 1/4W	R701	ERJ6GEYJ47V	4.7 1/10W	R730	ERDS2TJ103T	10K 1/4W	R766	ERDS2TJ820T	82 1/4W
R646	ERDS2TJ101T	100 1/4W	R702	ERDS2TJ122T	1.2K 1/4W	R731	ERDS2TJ223T	22K 1/4W	R767	ERDS2TJ223T	22K 1/4W
R647	ERDS2TJ101T	100 1/4W	R703	ERDS2TJ182T	1.8K 1/4W	R731	ERJ6GEYJ822V	8.2K 1/10W	R768	ERDS2TJ123T	12K 1/4W
R648	ERDS2TJ471T	470 1/4W	R703	ERJ6GEYJ823	82K 1/10W	R732	ERDS2TJ683T	68K 1/4W	R769	ERDS2TJ223T	22K 1/4W
R649	ERDS2TJ153T	15K 1/4W	R704	ERDS2TJ222T	2.2K 1/4W	R733	ERDS2TJ821T	820 1/4W	R770	ERDS2TJ123T	12K 1/4W
R650	ERDS2TJ153T	15K 1/4W	R704	ERJ6GEYJ102V	1K 1/10W	R734	ERDS2TJ821T	820 1/4W	R770	ERJ6GEYJ155V	1.5M 1/10W
R651	ERDS2TJ103T	10K 1/4W	R705	ERDS2TJ272T	2.7K 1/4W	R734	ERJ6GEYJ101V	100 1/10W	R771	ERDS2TJ472T	4.7K 1/4W
R652	ERDS2TJ103T	10K 1/4W	R705	ERJ6GEYJ103V	10K 1/10W	R735	ERJ6GEYJ101V	100 1/10W	R771	ERJ6GEYJ155V	1.5M 1/10W
R653	ERDS2TJ153T	15K 1/4W	R706	ERDS2TJ472T	4.7K 1/4W	R736	ERJ6GEYJ101V	100 1/10W	R772	ERJ6GEYJ273V	27K 1/10W
R654	ERDS2TJ154T	150K 1/4W	R706	ERJ6GEYJ102V	1K 1/10W	R737	ERDS2TJ821T	820 1/4W	R773	ERDS2TJ104T	100K 1/4W

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
R774	ERDS2TJ104T	100K 1/4W	C28	ECEA1HKA010B	1 50V	C79	ECBT1H2R2KC5	2.2P 50V(GCS,GC,GT)	C142	ECFR1C223MR	0.022 16V
R775	ERDS2TJ104T	100K 1/4W	C29	ECFR1C103KR	0.01 16V	C80	ECBT1C103MS5	0.01 16V(GCS,GC,GT)	C143	ECEA1HKA4R7B	4.7 50V
R780	ERDS2TJ223T	22K 1/4W	C30	ECFR1C103KR	0.01 16V	C81	ECBT1H220JC5	22P 50V(GCS,GC,GT)	C144	ECEA1HKA4R7B	4.7 50V
R784	ERDS2TJ333T	33K 1/4W	C31	ECBT1H150JC5	15P 50V (GN)	C82	ECBT1H150JC5	15P 50V(GCS,GC,GT)	C145	ECEA1CKA100B	10 16V
R785	ERDS2TJ332T	3.3K 1/4W	C31	ECBT1H8R2KC5	8.2P 50V(GCS,GC,GT)	C83	ECQP2A222JZT	2200P 100V(GCS,GC,GT)	C146	ECEA1CKA100B	10 16V
R786	ERDS2TJ105T	1M 1/4W	C32	ECBT1C103MS5	0.01 16V (GN)	C84	ECBT1C103MS5	0.01 16V(GCS,GC,GT)	C147	ECBT1C152KR5	1500P 16V
R787	ERDS2TJ682T	6.8K 1/4W	C32	ECBT1H470J5	47P 50V(GCS,GC,GT)	C85	ECBT1C103MS5	0.01 16V(GCS,GC,GT)	C148	ECBT1C152KR5	1500P 16V
R788	ERDS2TJ102T	1K 1/4W	C33	ECEA1HKA2R2B	2.2 50V	C86	ECBT1H220JC5	22P 50V(GCS,GC,GT)	C150	ECEA1AKA470B	47 10V
R789	ERDS2TJ102T	1K 1/4W	C34	ECEA1HKA010B	1 50V	C87	ECBT1H100JC5	10P 50V(GCS,GC,GT)	C151	ECEA1HKA010B	1 50V
R790	ERDS2TJ122T	1.2K 1/4W	C35	ECEA1HKA010B	1 50V	C88	ECBT1C103MS5	0.01 16V(GCS,GC,GT)	C152	ECEA1HKA010B	1 50V
R796	ERDS2TJ102T	1K 1/4W	C36	ECEA1HKA010B	1 50V	C101	ECBT1H102KB5	1000P 50V	C153	ECBT1H102KB5	1000P 50V
R797	ERDS2TJ102T	1K 1/4W	C37	ECEA1HKA010B	1 50V	C102	ECBT1H102KB5	1000P 50V	C154	ECBT1H102KB5	1000P 50V
R798	ERDS2TJ102T	1K 1/4W	C38	ECBT1C822MS5	8200P 16V	C103	ECBT1H681KB5	680P 50V	C155	ECEA1CKA100B	10 16V
R799	ERDS2TJ102T	1K 1/4W	C39	ECBT1C822MS5	8200P 16V	C104	ECFR1C223MR	0.022 16V	C156	ECEA1CKA100B	10 16V
R800	ERDS2TJ561T	560 1/4W	C40	ECBT1H561KB5	560P 50V	C105	ECBT1H681KB5	680P 50V	C161	ECEA1CKA101B	100 16V
R952	ERDS2TJ821T	820 1/4W	C41	ECBT1H561KB5	560P 50V	C106	ECBT1H681KB5	680P 50V	C162	ECEA1CU471B	470 16V
R953	ERDS2TJ393T	39K 1/4W	C42	ECBT1C562MR5	5600P 16V	C108	ECEA1CKA330B	33 16V	C163	ECEA1HKA010B	1 50V
R972	ERDS2TJ821T	820 1/4W	C43	ECBT1C562MR5	5600P 16V	C109	ECEA1CKA101B	100 16V	C164	ECEA1HKA010B	1 50V
R973	ERDS2TJ393T	39K 1/4W	C44	ECEA1CU101B	100 16V	C111	ECBT1H561KB5	560P 50V	C165	ECEA1CKA100B	10 16V
			C45	ECEA1HKA010B	1 50V	C112	ECBT1H561KB5	560P 50V	C166	ECEA1CKA100B	10 16V
			C46	ECEA1HKA010B	1 50V	C113	ECEA0JKA221B	220 6.3V	C167	ECEA1HKA68B	0.68 50V
			C47	ECBT1H473ZF5	0.047 50V	C114	ECEA0JKA221B	220 6.3V	C168	ECEA1HKA68B	0.68 50V
			C48	ECBT1H8R2KC5	8.2P 50V	C115	ECFR1C333JR	0.033 16V	C169	ECEA1HKA4R7B	4.7 50V
C1	ECBT1H5R6KC5	5.6P 50V	C49	ECBT1C103MS5	0.01 16V(GCS,GC,GT)	C116	ECFR1C333JR	0.033 16V	C170	ECEA1HKA4R7B	4.7 50V
C1	ECA1AKF820E	82 10V	C51	ECBT1C103MS5	0.01 16V	C117	ECEA1HKA010B	1 50V	C171	ECEA1CKA100B	10 16V
C2	RCBS1H102KBY	1000P 50V	C52	ECEA25M4R7RB	4.7 25V	C118	ECEA1HKA010B	1 50V	C173	ECBT1C103MS5	0.01 16V
C3	ECBT1H2R2KC5	2.2P 50V	C53	ECBT1C103MS5	0.01 16V	C119	ECEA1HKA4R7B	4.7 50V	C174	ECEA1HKA4R7B	4.7 50V
C4	ECBT1H181KB5	180P 50V	C54	ECBT1H180JC5	18P 50V	C120	ECEA1HKA4R7B	4.7 50V	C175	ECEA1VU221B	220 10V
C5	ECBT1H5R6KC5	5.6P 50V	C55	ECBT1H150JC5	15P 50V	C121	ECEA1HKA010B	1 50V	C176	ECQV1H473JZ3	0.047 50V
C6	ECBT1H3R3KC5	3.3P 50V	C56	ECBT1H102KB5	1000P 50V	C122	ECEA1HKA010B	1 50V	C177	ECBT1H102KB5	1000P 50V
C7	ECBT1H4R7KC5	4.7P 50V	C57	ECEA0JU101B	100 6.3V	C123	ECBT1H102KB5	1000P 50V	C178	ECBT1H102KB5	1000P 50V
C8	ECBT1H3R3KC5	3.3P 50V	C59	ECBT1H330J5	33P 50V	C124	ECBT1H102KB5	1000P 50V	C179	ECBT1C103MS5	0.01 16V
C9	ECBT1H2R2KC5	2.2P 50V	C60	ECBT1H102KB5	1000P 50V	C125	ECFR1C473MR	0.047 16V	C180	ECBT1C103MS5	0.01 16V
C10	ECBT1H180JC5	18P 50V	C61	ECBT1H331KB5	330P 50V	C126	ECFR1C473MR	0.047 16V	C181	ECBT1C103MS5	0.01 16V
C11	RCBS1H102KBY	1000P 50V	C62	ECEA1CU220B	22 16V	C127	ECBT1C103MS5	0.01 16V	C182	ECEA1HKA4R7B	4.7 50V
C15	ECBT1C103MS5	0.01 16V	C63	ECBT1C103MS5	0.01 16V	C128	ECBT1C103MS5	0.01 16V	C183	ECQV1H474JZ3	0.47 50V
C16	ECEA1CU220B	22 16V	C64	ECBT1C103MS5	0.01 16V	C129	ECBT1H821KB5	820P 50V	C184	ECQP1152JZ	1500P 100V
C17	ECBT1C103MS5	0.01 16V	C65	ECBT1H102KB5	1000P 50V	C130	ECBT1H821KB5	820P 50V	C185	ECQP2A472JZT	4700P 100V
C18	ECBT1H102KB5	1000P 50V	C66	ECBT1H102KB5	1000P 50V	C131	ECBT1H821KB5	820P 50V	C186	ECEA1AKA470B	47 10V
C19	ECBT1C103MS5	0.01 16V	C67	ECBT1H102KB5	1000P 50V	C132	ECBT1H821KB5	820P 50V	C187	ECBT1H101KB5	100P 50V
C20	ECEA1HKA3R3B	3.3 50V	C68	ECBT1H102KB5	1000P 50V(GCS,GC,GT)	C133	ECEA1HKA4R7B	4.7 50V	C188	ECBT1H101KB5	100P 50V
C21	ECEA0JU101B	100 6.3V (GN)	C71	ECBT1H331KB5	330P 50V	C134	ECEA1HKA4R7B	4.7 50V	C193	ECBT1H102KB5	1000P 50V
C21	ECEA0JU331B	330 6.3V(GCS,GC,GT)	C72	ECBT1C103MS5	0.01 16V(GCS,GC,GT)	C135	ECBT1H102KB5	1000P 50V	C194	ECBT1H102KB5	1000P 50V
C22	ECBT1C103MS5	0.01 16V (GN)	C73	ECEA1HKA010B	1 50V(GCS,GC,GT)	C136	ECBT1H102KB5	1000P 50V	C201	ECEA1CKA101B	100 16V
C22	ECBT1H473ZF5	0.047 50V(GCS,GC,GT)	C74	ECBT1C103MS5	0.01 16V(GCS,GC,GT)	C137	ECFR1C183KR	0.018 16V	C202	ECBT1H104ZF5	0.1 50V
C23	ECEA1CU220B	22 16V	C75	ECBT1H180JC5	18P 50V(GCS,GC,GT)	C138	ECFR1C183KR	0.018 16V	C203	ECBT1H331KB5	330P 50V
C24	ECBT1H473ZF5	0.047 50V	C76	ECBT1C103MS5	0.01 16V(GCS,GC,GT)	C139	ECEA1HKA2R2B	2.2 50V	C204	ECBT1H331KB5	330P 50V
C25	ECEA1HKA4R7B	4.7 50V	C77	ECQP2A222JZT	2200P 100V(GCS,GC,GT)	C140	ECEA1CKA100B	10 16V	C205	ECBT1C222KR5	2200P 16V
C26	ECBT1C822MS5	8200P 16V	C78	ECBT1H2R2KC5	2.2P 50V(GCS,GC,GT)	C141	ECEA1HKA0R1B	0.1 50V	C206	ECBT1C222KR5	2200P 16V
C27	ECQP1821JZT	820P 100V [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
C301	ECBT1E103ZF5	0.01 25V	C356	ECEA1HKAR33B	0.33 50V	C519	ECKR1H103ZF5	0.01 50V	C628	ECBT1H102KB5	1000P 50V
C302	ECBT1E103ZF5	0.01 25V	C357	ECEA0JKA470B	47 6.3V	C520	ECKR1H103ZF5	0.01 50V	C629	ECBT1H101KB5	100P 50V
C304	ECBT0J223NS5	0.022 6.3V	C359	ECEA1HU010B	1 50V	C521	ECKR1H103ZF5	0.01 50V	C630	ECBT1H101KB5	100P 50V
C305	ECBT1E103ZF5	0.01 25V	C360	ECEA0JKA470B	47 6.3V	C522	ECEA1HU332	3300 50V 	C631	ECBT1C103MS5	0.01 16V
C306	ECBT1E103ZF5	0.01 25V	C361	ECEA1HKA010B	1 50V	C523	ECEA1HU332	3300 50V 	C632	ECFR1C683KR	0.068 16V
C307	ECBT1H101KB5	100P 50V	C362	ECBT1H101KB5	100P 50V	C524	ECEA0JU101B	100 6.3V	C633	ECBT1C222MR5	2200P 16V
C308	ECBT1H101KB5	100P 50V	C363	ECBT1H101KB5	100P 50V	C528	ECEA1AKA470B	47 10V	C634	ECBT1C222MR5	2200P 16V
C309	ECBT1H104ZF5	0.1 50V	C364	ECFR1C104MR	0.1 16V	C529	ECBT1E103ZF5	0.01 25V	C635	ECFR1C223KR	0.022 16V
C310	ECBT1H104ZF5	0.1 50V	C392	ECBT1H100JC5	10P 50V	C536	ECEA1CU101B	100 16V	C636	ECFR1C223MR	0.022 16V
C311	ECBT1H470J5	47P 50V	C401	ECEA1CKA100B	10 16V	C537	ECKR1H103ZF5	0.01 50V	C637	ECFR1C683KR	0.068 16V
C312	ECBT1H470J5	47P 50V	C402	ECEA1AKA330B	33 10V	C538	ECEA1CKA470B	47 16V	C639	ECEA1HKAR33B	0.33 50V
C313	ECBT1H104ZF5	0.1 50V	C403	ECBT1E103ZF5	0.01 25V	C539	ECKR1H103ZF5	0.01 50V	C640	ECEA1HKAR33B	0.33 50V
C314	ECFR1C473KR	0.047 16V	C404	ECEA1CKA330B	33 16V	C554	ECKR1H223ZF5	0.022 50V	C641	ECEA1HKN010B	1 50V
C315	ECBT1E103ZF5	0.01 25V	C405	ECBT1E103ZF5	0.01 25V	C559	ECBT1E103ZF5	0.01 25V	C642	ECFR1C104MR	0.1 16V
C316	ECBT0J223NS5	0.022 6.3V	C406	ECBT1E103ZF5	0.01 25V	C561	ECEA1HKA2R2B	2.2 50V	C643	ECEA1HKN010B	1 50V
C317	ECEA1HKA3R3B	3.3 50V	C407	ECEA1AU470B	47 10V	C562	ECBT1E103ZF5	0.01 25V	C644	ECEA1HKA010B	1 50V
C318	ECEA1HKA3R3B	3.3 50V	C408	ECBT1E103ZF5	0.01 25V	C563	ECEA1AU221B	220 10V	C645	ECEA0JKA470B	47 6.3V
C320	ECBT0J223NS5	0.022 6.3V	C409	ECEA1HKA3R3B	3.3 50V	C564	ECBT1E103ZF5	0.01 25V	C646	ECEA1CKA100B	10 16V
C321	ECEA1HKA0R1B	0.1 50V	C410	ECEA1HU330B	33 50V	C565	ECEA1CKA100B	10 16V	C647	ECBT1C103MS5	0.01 16V
C322	ECEA1HKA0R1B	0.1 50V	C411	ECKR1H103ZF5	0.01 50V	C566	ECEA1CKA100B	10 16V	C648	ECEA1HKA010B	1 50V
C323	ECEA1HKAR22B	0.22 50V	C412	ECKR1H103ZF5	0.01 50V	C567	ECEA0JU471B	470 6.3V (GC,GT)	C649	ECEA1HKA010B	1 50V
C324	ECEA1HKAR22B	0.22 50V	C413	ECA2AM470B	47 100V	C567	ECEA0JU101B	100 6.3V (GCS,GN)	C650	ECBT1C103MS5	0.01 16V
C325	ECFR1C153MR	0.015 16V	C414	ECEA1AKA330B	33 10V	C597	ECBT1E103ZF5	0.01 25V	C651	ECBT1H101KB5	100P 50V
C326	ECFR1C153MR	0.015 16V	C415	ECBT1E103ZF5	0.01 25V	C598	ECEA1CKA100B	10 16V	C652	ECEA1HKA010B	1 50V
C327	ECFR1C153MR	0.015 16V	C416	ECEA0JKA470B	47 6.3V	C599	ECEA1HU330B	33 50V 	C653	ECBT1H101KB5	100P 50V
C328	ECFR1C153MR	0.015 16V	C417	ECBT1E103ZF5	0.01 25V	C601	ECBT1H561KB5	560P 50V	C654	ECEA1AU221B	220 10V
C329	ECBT1C222MR5	2200P 16V	C418	ECA1EM102B	1000P 25V	C602	ECBT1H561KB5	560P 50V	C655	ECEA1HKA010B	1 50V
C330	ECBT1C222MR5	2200P 16V	C420	ECBT1E103ZF5	0.01 25V	C604	ECBT1H561KB5	560P 50V	C656	ECBT1H471KB5	470P 50V
C331	ECEA1HKA010B	1 50V	C421	ECEA1HU100B	10 50V	C605	ECBT1H561KB5	560P 50V	C657	ECBT1H101KB5	100P 50V
C332	ECEA1HKA010B	1 50V	C451	ECBT1E103ZF5	0.01 25V	C606	ECBT1H561KB5	560P 50V	C658	ECEA1CKA100B	10 16V
C333	ECEA1HKA0R1B	0.1 50V	C485	ECBT1H101KB5	100P 50V	C607	ECBT1H561KB5	560P 50V	C659	ECEA1HKA010B	1 50V
C334	ECEA1HKA0R1B	0.1 50V	C486	ECBT1H101KB5	100P 50V	C608	ECBT1H101KB5	100P 50V	C660	ECBT1E103ZF5	0.01 25V
C335	ECEA1HKA0R1B	0.1 50V	C501	ECEA1HKA3R3B	3.3 50V	C609	ECEA0JKA470B	47 6.3V	C661	ECBT1C103MS5	0.01 16V
C336	ECEA1HKA0R1B	0.1 50V	C502	ECEA1HKA3R3B	3.3 50V	C610	ECBT1C103MS5	0.01 16V	C662	ECEA1HKA4R7B	4.7 50V
C337	ECEA1HKA3R3B	3.3 50V	C503	ECBT1H102KB5	1000P 50V	C613	ECEA1HKA010B	1 50V	C663	ECBT1H471KB5	470P 50V
C338	ECEA1HKA3R3B	3.3 50V	C504	ECBT1H102KB5	1000P 50V	C614	ECEA1HKA010B	1 50V	C664	ECEA1HKA3R3B	3.3 50V
C339	ECBT1E103ZF5	0.01 25V	C505	ECBT1H331KB5	330P 50V	C615	ECBT1H150JC5	15P 50V	C665	ECBT1H102KB5	1000P 50V
C340	ECBT1E103ZF5	0.01 25V	C506	ECBT1H331KB5	330P 50V	C616	ECBT1H180JC5	18P 50V	C666	ECEA1HKA0R1B	0.1 50V
C341	ECEA1CKA220B	22 16V	C507	ECBT1H150J5	15P 50V	C617	ECBT1H680J5	68P 50V	C667	ECEA1HKA0R1B	0.1 50V
C342	ECEA1HKA4R7B	4.7 50V	C508	ECBT1H150J5	15P 50V	C618	ECBT1H560J5	56P 50V	C668	ECEA1HKA0R1B	0.1 50V
C343	ECEA1HKAR47B	0.47 50V	C509	ECEA1HKA010B	1 50V	C619	ECBT1H680J5	68P 50V	C669	ECEA1HKA0R1B	0.1 50V
C344	ECEA1HKAR47B	0.47 50V	C510	ECEA1HKA010B	1 50V	C620	ECBT1H560J5	56P 50V	C670	ECBT1E103ZF5	0.01 25V
C347	ECBT1H560J5	56P 50V	C511	ECEA1HU330B	33 50V	C621	ECEA1HKA3R3B	3.3 50V	C673	ECBT1H102KB5	1000P 50V
C348	ECBT1H560J5	56P 50V	C512	ECEA2AU100B	10 100V	C622	ECEA1VKA100B	10 10V	C674	ECBT1H102KB5	1000P 50V
C351	ECBT1E103ZF5	0.01 25V	C513	ECKR1H223ZF5	0.022 50V	C623	ECEA1VKA100B	10 10V	C675	ECBT1C103MS5	0.01 16V
C352	ECBT1E103ZF5	0.01 25V	C514	ECKR1H223ZF5	0.022 50V	C624	ECEA0JKA101B	100 6.3V	C676	ECBT1C103MS5	0.01 16V
C353	ECEA1HKA3R3B	3.3 50V	C515	ECKR1H103ZF5	0.01 50V	C625	ECBT1H102KB5	1000P 50V	C677	ECBT1H561KB5	560P 50V
C354	ECEA1HKA3R3B	3.3 50V	C517	ECEA1EU222E	2200 25V	C626	ECEA0JU102B	1000 6.3V	C678	ECBT1H561KB5	560P 50V
C355	ECEA1HKAR33B	0.33 50V	C518	ECKR1H103ZF5	0.01 50V	C627	ECEA0JU102B	1000 6.3V	C679	ECBT1H104ZF5	0.1 50V

Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks	Ref. No.	Part No.	Values & Remarks
C680	ECBT1H101KB5	100P 50V	C702	ECUZNE104MBN	0.1 25V	C718	ECUV1C224KBN	0.22 16V	C736	ECUZNE104MBN	0.1 25V
C681	ECBT1H101KB5	100P 50V	C703	ECEA0JKA101I	100 6.3V	C721	ECUV1H150JCN	15P 50V	C737	ECUZNE104MBN	0.1 25V
C682	ECBT1H104ZF5	0.1 50V	C704	ECUZNE104MBN	0.1 25V	C722	ECUV1H150JCN	15P 50V	C738	ECUV1C154KBN	0.15 16V
C687	ECBT1H102KB5	1000P 50V	C705	ECUZNE104MBN	0.1 25V	C723	ECEA1AKA221I	220 10V	C742	ECUV1E273KBN	0.027 25V
C688	ECBT1H102KB5	1000P 50V	C706	ECUV1H272KBN	2700P 50V	C724	ECUV1C104MBM	0.1 16V	C743	ECUZNE104MBN	0.1 25V
C689	ECEA1AKA220B	22 10V	C707	ECUV1E273KBN	0.027 25V	C725	ECUV1H102KBN	1000P 50V	C744	ECUV1E822KBN	8200P 25V
C690	ECEA0JKA101B	100 6.3V	C708	ECUV1H472KBN	4700P 50V	C726	ECUV1H102KBN	1000P 50V	C745	ECUV1C473MBN	0.047 16V
C691	ECFR1C333MR	0.033 16V	C709	ECUV1C473KBN	0.047 16V	C727	ECEA1HPK010I	1 50V	C747	ECUV1H222KBN	2200P 50V
C692	ECBT1H121KB5	120P 50V	C710	ECUV1H182KBN	1800P 50V	C728	ECEA1HPK010I	1 50V	C748	ECUV1H471KBM	470P 50V
C693	ECBT1H471KB5	470P 50V	C711	ECUZNE104MBN	0.1 25V	C730	ECUZNE104MBN	0.1 25V	C749	ECUZNE104MBN	0.1 25V
C694	ECBT0J223NS5	0.022 6.3V	C712	ECUZNE104MBN	0.1 25V	C731	ECEA0JKA221I	220 6.3V	C751	ECUZNE104MBN	0.1 25V
C696	ECBT1H471KB5	470P 50V	C713	ECUV1C104MBM	0.1 16V	C732	ECEA0JKA221I	220 6.3V	C752	ECUV1H152KBN	1500P 50V
C697	ECBT1H331KB5	330P 50V	C714	ECEA0JKA101I	100 6.3V	C733	ECUZNE104MBN	0.1 25V	C753	ECUV1H471KBM	470P 50V
C698	ECBT1E103ZF5	0.01 25V	C716	ECUV1H561KBN	560P 50V	C734	ECEA1AKA221I	220 10V	C754	ECUV1H471KBN	470P 50V
C701	ECEA0JKA330I	33 6.3V	C717	ECUZNE104MBN	0.1 25V	C735	ECUZNE104MBN	0.1 25V			

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.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks	Ref No.	Part No.	Part Name & Description	Remarks
		PACKING MATERIALS		P4	SPSD155	ACCESSORY CASE		A2	RQT3312-G	OPERATING INSTRUCTION	[M](GCS,GC,GT)
								A3	RSA0006	FM ANT	
P1	RPF0100	BAG (SET)	[M]			ACCESSORIES		A4	RSA0010	AM LOOP ANT	
P2	RPG2804	PACKING CASE	[M](GT)					A5	RJA0036-K	AC CORD	(GN) 
P2	RPG3058	PACKING CASE	[M](GN)	A1	EUR643804	REMOTE CONTROL	[M]	A5	RJA0019-2K	AC CORD	(SF) (GCS,GC,GT) 
P2	RPG2802	PACKING CASE	[M](GCS,GC)	A1-1	UR64EC1638-1	REMOTE CON COVER	[M]	A6	RJP1SG04-H	PLUG ADAPTOR	[M](GT)
P3	RPN0922-2	POLYFOAM	[M]	A2	RQT3309-B	O/I BOOK	[M](GN)	A6	SJP5213-2	AC CORD ADAPTOR	(GCS,GC)

■ Packaging

ACCESSORY

A1 (EUR643804)	: REMOTE CONTROL
A4 (RSA0010)	: AM LOOP ANTENNA
A6 (RJP1SG04-H)...GT	: AC CORD ADAPTOR
A6 (SJP5213-2)...GC,GCS	: AC CORD ADAPTOR

FAN BAG

A2 (RQT3309-B)...GN	: INSTRUCTION MANUAL
A2 (RQT3312-G)...GC,GT,GCS	: INSTRUCTION MANUAL
A3 (RSA0006)	: FM ANTENNA
A5 (RJA0036-K)...GN	: AC CORD
A5 (RJA0019-2K)...GC,GT,GCS	: AC CORD

