

COMPACT COMPONENT SYSTEM

CC-5

SERVICE MANUAL

This system is composed of TCD-CC5, A-CC5, K-CC5 and NS-CC5.

This service manual has been prepared for those models whose destinations are H, B and U.
For other models (for destinations R, A, W and C), a supplementary service manual describing modifications for these models will be made later.

IMPORTANT NOTICE

This manual has been provided for the use of authorized YAMAHA Retailers and their service personnel. It has been assumed that basic service procedures inherent to the industry, and more specifically YAMAHA Products, are already known and understood by the users, and have therefore not been restated.

WARNING: Failure to follow appropriate service and safety procedures when servicing this product may result in personal injury, destruction of expensive components and failure of the product to perform as specified. For these reasons, we advise all YAMAHA product owners that all service required should be performed by an authorized YAMAHA Retailer or the appointed service representative.

IMPORTANT: The presentation or sale of this manual to any individual or firm does not constitute authorization, certification or recognition of any applicable technical capabilities, or establish a principle-agent relationship of any form.

The data provided is believed to be accurate and applicable to the unit(s) indicated on the cover. The research, engineering, and service departments of YAMAHA are continually striving to improve YAMAHA products. Modifications are, therefore, inevitable and specifications are subject to change without notice or obligation to retrofit. Should any discrepancy appear to exist, please contact the distributor's Service Division.

WARNING: Static discharges can destroy expensive components. Discharge any static electricity your body may have accumulated by grounding yourself to the ground buss in the unit (heavy gauge black wires connect to this buss).

IMPORTANT: Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

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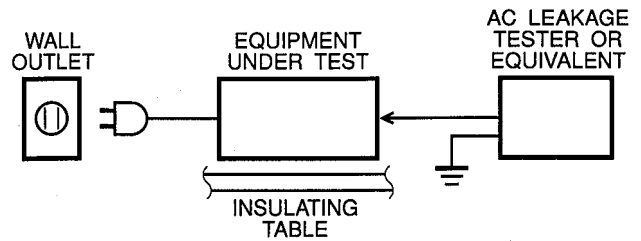
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■ TO SERVICE PERSONNEL

1. Critical Components Information.
Components having special characteristics are marked and must be replaced with parts having specifications equal to those originally installed.
2. Leakage Current Measurement (For 120V Models Only).
When service has been completed, it is imperative to verify that all exposed conductive surfaces are properly insulated from supply circuits.
 - Meter impedance should be equivalent to 1500 ohm shunted by 0.15 μ F.
 - Leakage current must not exceed 0.5mA.
 - Be sure to test for leakage with the AC plug in both polarities.



<i>U</i> <i>U. S. A. model</i>	<i>B</i> <i>British model</i>
<i>C</i> <i>Canadian model</i>	<i>H</i> <i>European model</i>
<i>A</i> <i>Australian model</i>	<i>W</i> <i>Germany model</i>
<i>R</i> <i>General model</i>	

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

THE COMPACT DISC PLAYER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs a laser. Therefore, be sure to carefully follow the instructions below when servicing .

1. Laser Diode Properties
 - Material : GaAlAs
 - Wavelength : 780 nm
 - Emission Duration : Continuous
 - Laser Output : max. 44.6 μ W*

* This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.
2. When checking the laser diode emission, keep your eyes more than 30 cm away from the objective lens.

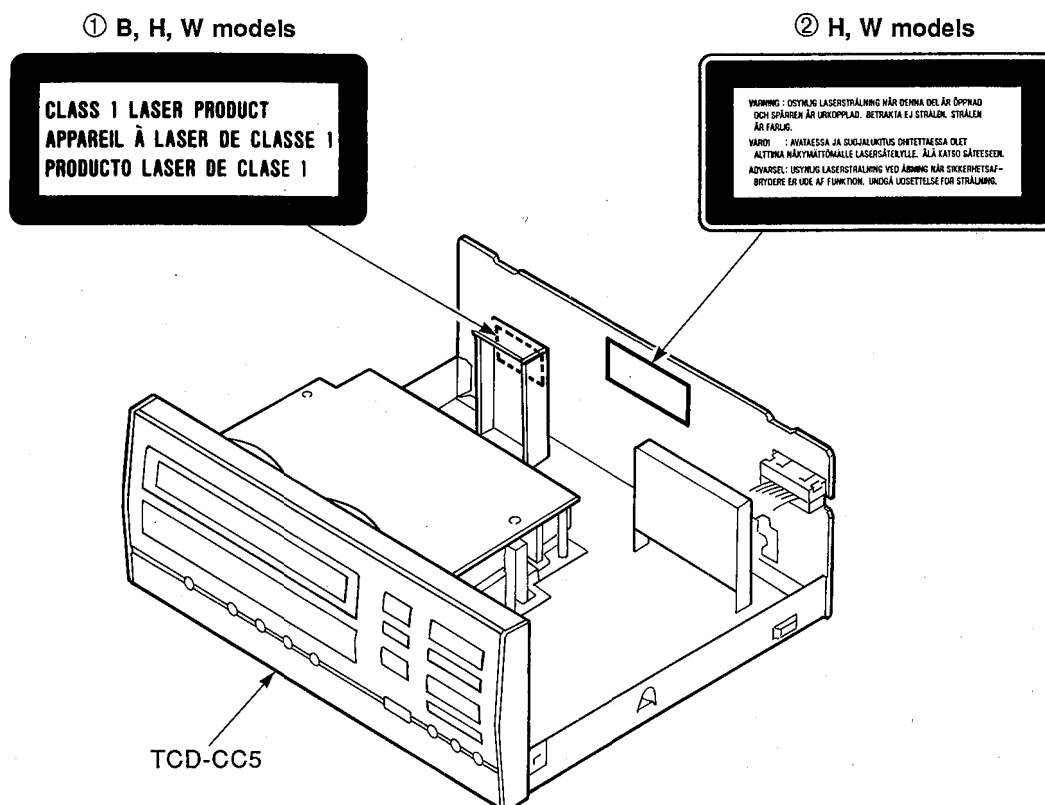
WARNING: CHEMICAL CONTENT NOTICE!

The solder used in the production of this product contains LEAD. In addition, other electrical/electronic and/or plastic (where applicable) components may also contain traces of chemicals found by the California Health and Welfare Agency (and possibly other entities) to cause cancer and/or birth defects or other reproductive harm.

DO NOT PLACE SOLDER, ELECTRICAL/ELECTRONIC OR PLASTIC COMPONENTS IN YOUR MOUTH FOR ANY REASON WHATSOEVER!

Avoid prolonged, unprotected contact between solder and your skin! When soldering, do not inhale solder fumes or expose eyes to solder/flux vapor!

If you come in contact with solder or components located inside the enclosure of this product, wash your hands before handling food.



English

- ① THIS LABEL (SEE POSITION SHOWN IN THE ILLUSTRATION) INFORMS THE USER THAT THE APPARATUS CONTAINS A LASER COMPONENT.
- ② THIS LABEL (SEE POSITION SHOWN IN THE ILLUSTRATION) WARNS THAT ANY FURTHER PROCEDURE WILL BRING THE USER INTO EXPOSURE WITH THE LASER BEAM.

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

Swedish

- ① DENNA MÄRKNING (SE FIGUR) UPPLYSER OM ATT DET I APPARATEN INGÅR EN LASERKOMPONENT AV TYP KLASS 1.
- ② VARNINGSMÄRKNING (SE FIGUR) FÖR STRÅLNING. INGREPP I APPARATEN BÖR ENDAST FÖRETAGAS AV FACKMAN MED KÄNNEDOM OM LASER. APPARATEN INNEHÅLLER EN LASERKOMPONENT SOM AVGER STRÅLNING ÖVERSTIGANDE GRÄNSEN FÖR LASERKLASS 1.

VARNING : OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD: BETRÄKTA EJ STRÅLEN.

Danish

- ① DETTE MÆRKAT ER ANBRAGT SOM VIST I ILLUSTRATIONEN FOR AT ADVARE BRUGEREN OM AT APPARATET INDEHOLDER EN LASERKOMPONENT.
- ② DETTE MÆRKAT OM LASEREN ER ANBRAGT PÅ APPARATET SOM EN OPLYSNING OM AT APPARATET INDEHOLDER ET LASERKOMPONENT.

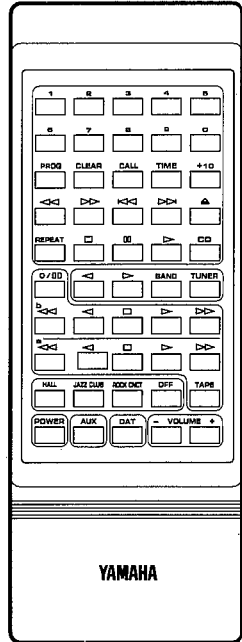
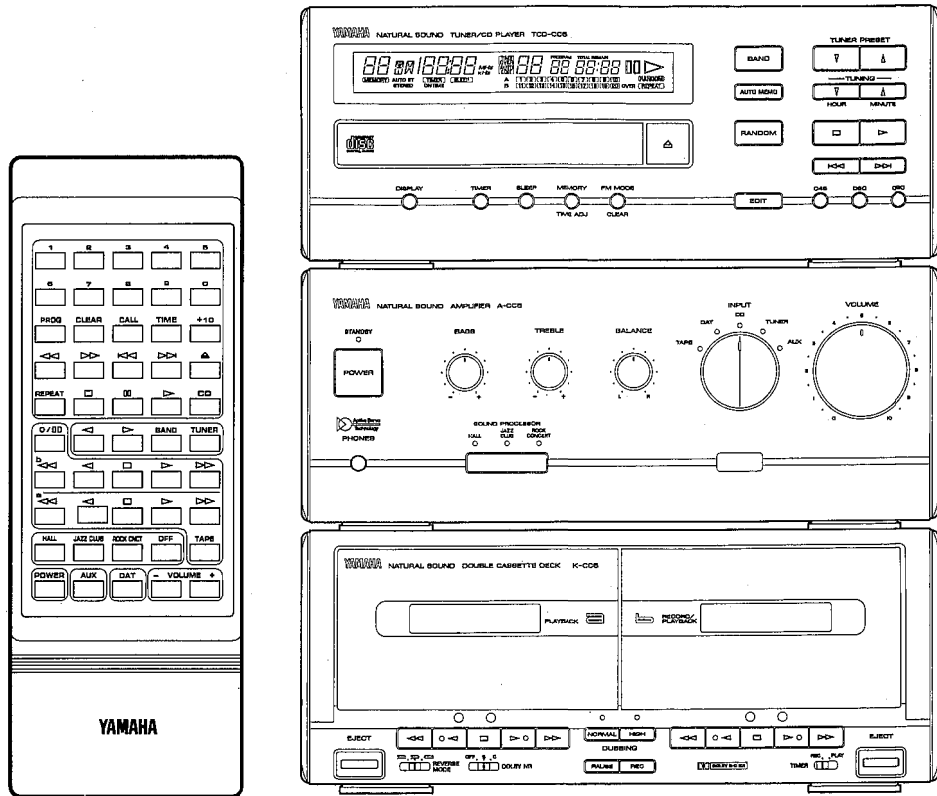
ADVARSEL : INDGREB BOR KUN FORETAGES AF EN FAGMAND DA DER ER RISIKO FOR RADIOAKTIV STRÅLING.

ADVARSEL : USYNLIG LASERSTRÅLNING VED ÅBNING.
UNDGÅ UDSÆTTELSE FOR STRÅLING.

Finnish

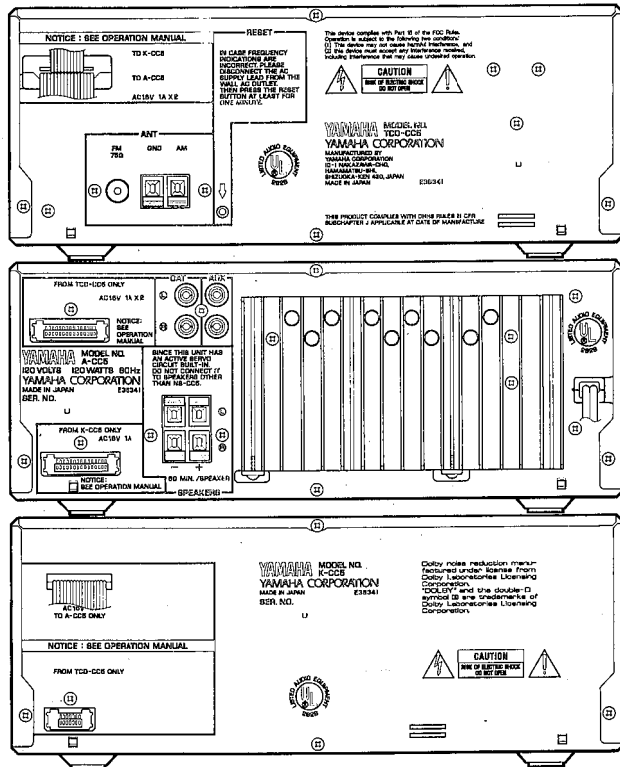
VARO! :
AVATTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.

FRONT PANEL



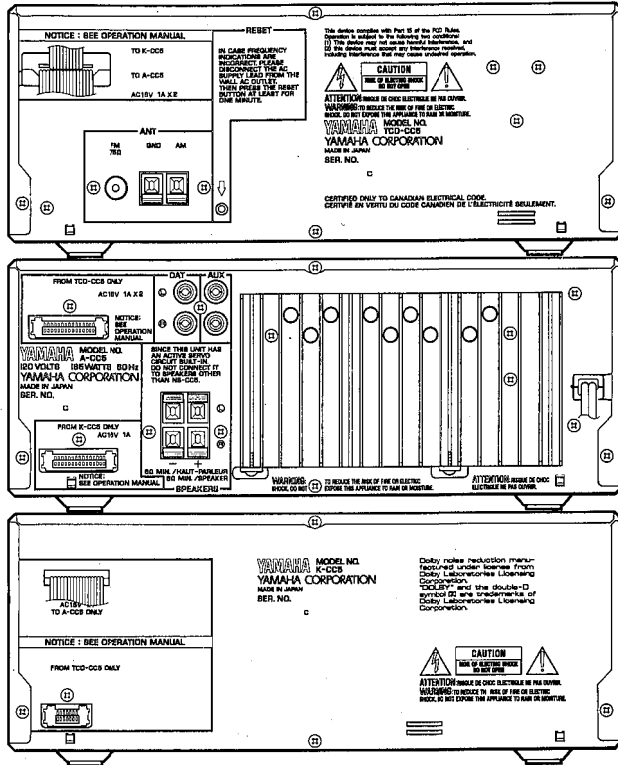
REAR PANELS

U model

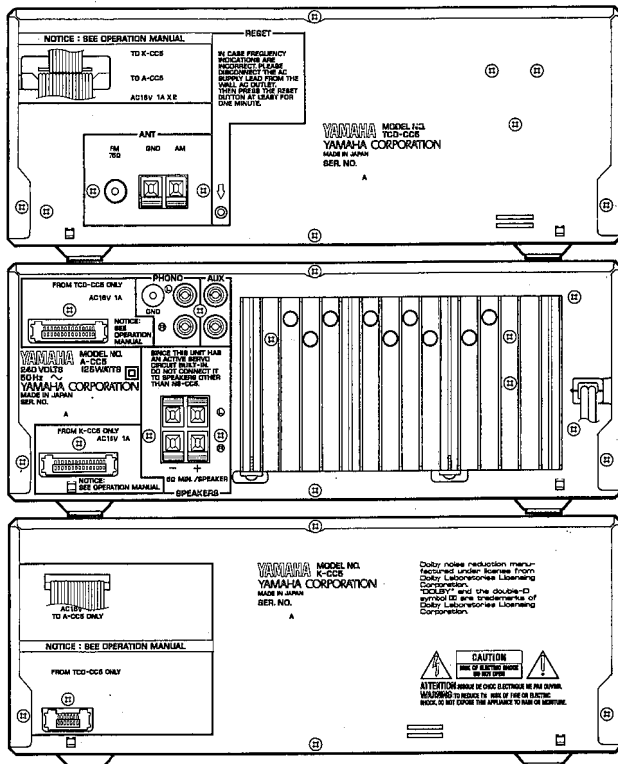


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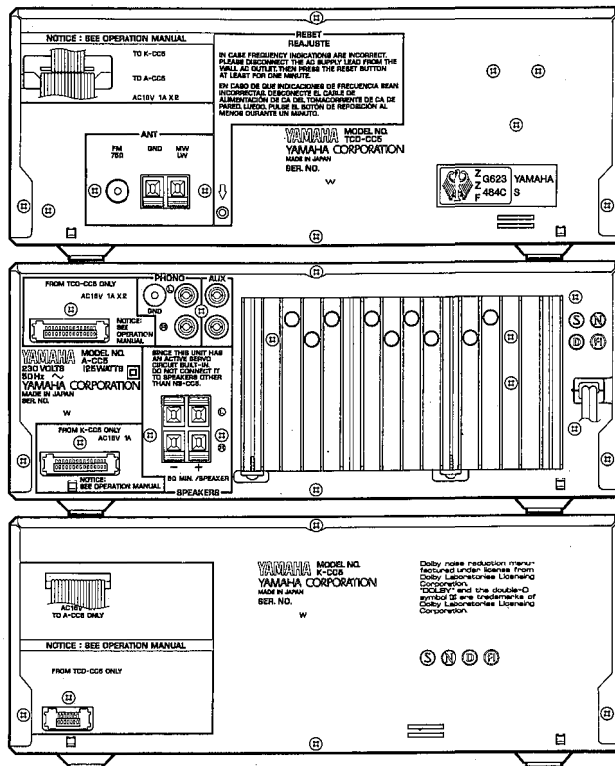
▼ C model



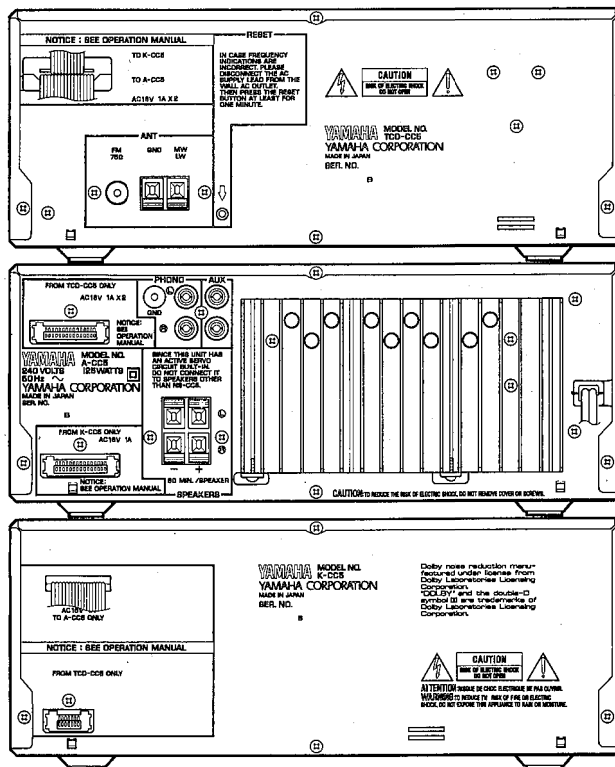
▼ A model



▼ W model



▼ B model



■ SPECIFICATIONS

As a part of our policy of continuous improvement, YAMAHA reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units.

■ Tuner/CD player section

Power source AC supplies from amplifier unit
Input sensitivity and input impedance ... AUX; 200 mV/47 kΩ
Load impedance Headphones; 16 — 50 Ω
 (recommended; 32 Ω)
Dimensions Width; 277 mm (10-7/8")
 Height; 114.5 mm (4-1/2")
 Depth; 258.5 mm (10-3/16")
Weight 2.3 kg (5 lbs. 1 oz.)

(Tuner)

Frequency range
FM 87.5 — 108.0 MHz
AM (MW/LW)
 [U, C models] AM; 530 — 1,720 kHz
 [A, R models] AM; 530 — 1,620 kHz
 [B, H, W models] MW; 522 — 1,620 kHz
 LW; 153 — 281 kHz

Sensitivity

FM 2.5 μV
AM (MW/LW)
 [U, C, A, R models] AM; 500 μV/m
 [B, H, W models] MW; 500 μV/m
 LW; 560 μV/m

(Compact disc player)

Signal readout Non-contact, 3-beam semi-conductor
 laser pick-up
Rotation speed 200 — 500 rpm CLV, Approx.
Error correction CIRC (Cross Interleave Reed-Solomon Code)
D/A converter 16-bit
Filter 4-time oversampling digital filter and active filter
Frequency response 20 — 20,000 Hz
Wow and flutter Unmeasurable (less than 0.001% W. peak)

■ Amplifier section

Power Supply
 [U, C models] AC 120 V, 60 Hz
 [A, B models] AC 240 V, 50 Hz
 [H, W models] AC 230 V, 50 Hz
 [R model] AC 110/120/220/240 V, 60/50 Hz

Power consumption

[U model only] 120 W
 [C model only] 165 W
 [A, B, H, W, R models] 125 W

Continuous power output

[U, C models] .2 x 35 W, 40 Hz — 20 kHz, 6 Ω, 0.9 % T.H.D.
 [A, R models] 2 x 50 W, 1 kHz, 6 Ω, 10 % T.H.D.
 [B, H, W models] . . . 2 x 42 W, 1 kHz, 6 Ω, 0.9 % T.H.D.
 2 x 40 W, 1 kHz, 6 Ω, 0.7 % T.H.D. (DIN)

Load impedance

Speakers; 6 Ω

Dimensions Width; 277 mm (10-7/8")
 Height; 114.5 mm (4-1/2")
 Depth; 304 mm (11-15/16")

Weight 5.0 kg (1.1 lbs.)

■ Tape Deck Section

Power source AC supplies from amplifier unit
Tape Compact cassette tape
Frequency response (Playback) .30 — 13,000 Hz (Normal tape)
 30 — 14,000 Hz (CrO2 tape)
Signal/noise ratio 64 dB (Dolby B NR ON)
 72 dB (Dolby C NR ON)
Dimensions Width; 277 mm (10-7/8")
 Height; 114.5 mm (4-1/2")
 Depth; 251.5 mm (9-7/8")
Weight 2.7 kg (5 lbs. 15 oz.)

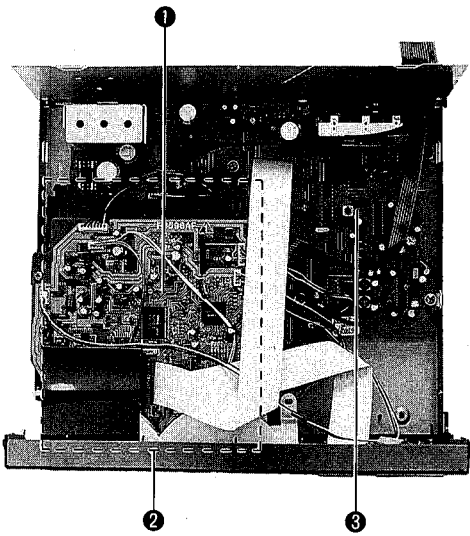
■ Speaker section

Type Active Servo Processing type
Speakers 12 cm (4-3/4") woofer
 5 cm (2") tweeter
Frequency range 40 — 20,000 Hz
Maximum power handling capacity 50 W
Impedance 6 Ω
Dimensions Width; 180 mm (7-1/16")
 Height; 342.5 mm (13-1/2")
 Depth; 219.5 mm (8-5/8")
Weight 3.5 kg (7 lbs. 11 oz.)/each



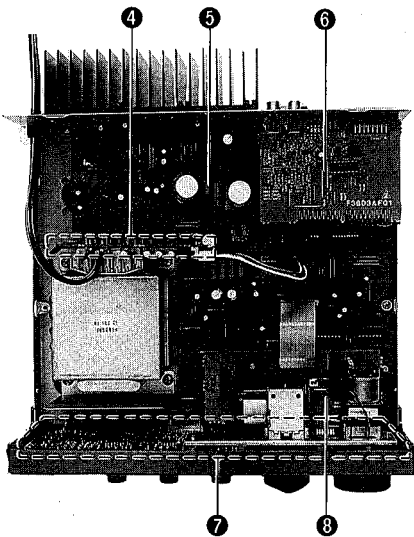
Dolby and the double D mark are trademarks of Dolby Laboratories Licensing Corp. Dolby noise reduction system manufactured under license from Dolby Laboratories Licensing Corp.

■ INTERNAL VIEW



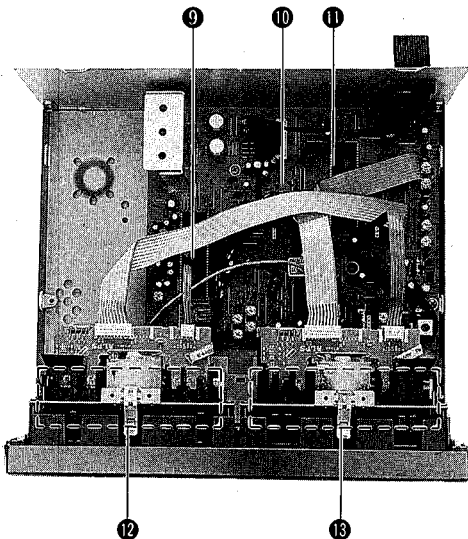
TCD-CC5

- ① CD SERVO PWB (PWB1)
- ② CD BLOCK
- ③ TUNER PWB (PWB601)



A-CC5

- ④ POWER PWB (PWB201-3)
- ⑤ AMP PWB (PWB202-1)
- ⑥ INPUT SELECTOR PWB (PWB201-1/2)
- ⑦ SURROUND PWB (PWB202-3)
- ⑧ VOLUME PWB (PWB202-2)



K-CC5

- ⑨ IC472 : HA12155 (Dolby & Rec EQ Amp)
- ⑩ DECK AMP/CONTROL PWB (PWB301)
- ⑪ IC301 : M50708 (Tape Mechanism Control)
- ⑫ TAPE MECHANISM (a)
- ⑬ TAPE MECHANISM (b)

DISASSEMBLY

Caution on Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep its safety and excellent performance:

1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take sufficient care from static electricity to integrated circuits and other circuits when servicing.

STEP	REMOVAL	PROCEDURE	FIGURE
1	Cabinet (TCD-CC5/A-CC5/K-CC5)	1. Screw(A1) x 5	1
2	Tape Mechanism (K-CC5)	1. Open the Cassette Holder 2. Screw(B1) x 8 3. Socket(B2) x 8	2-1 2-2
3	Servo PWB (TCD-CC5)	1. Screw(C1) x 4 2. Socket(C2) x 6 3. Flexible Wire(C3) x 2 4. System Connector(C4) x 1	3-1 3-1 3-1 3-1
4	CD Block (TCD-CC5)	1. Push the Rack Slide Gear to open the disc tray ..(C5) x 1 2. Push the two hook to remove the disc tray(C6) x 2 3. Screw(C7) x 4	3-2 3-3 3-4
5	CD Mechanism (TCD-CC5)	1. Screw(C8) x 2	3-5

• CD Mechanism removal procedure.

After removing the Cabinet, Servo PWB and CD Block, remove the CD mechanism.

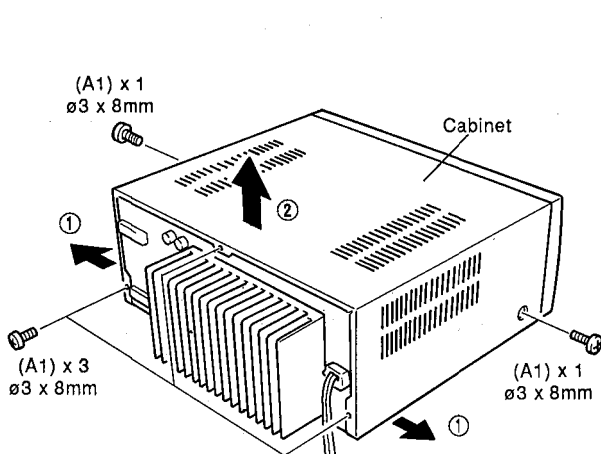


Figure 1

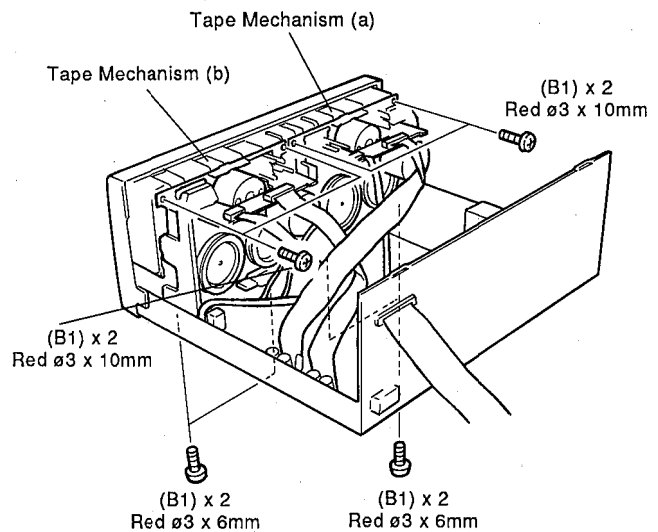


Figure 2-1

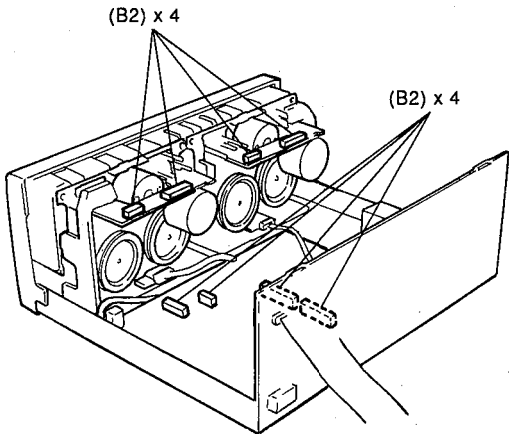


Figure 2-2

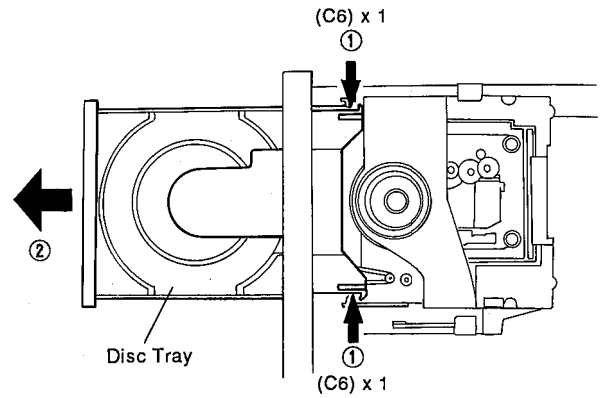


Figure 3-3

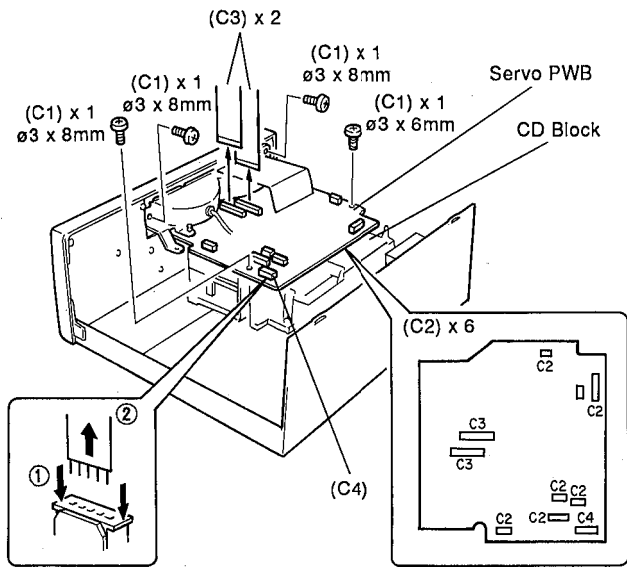


Figure 3-1

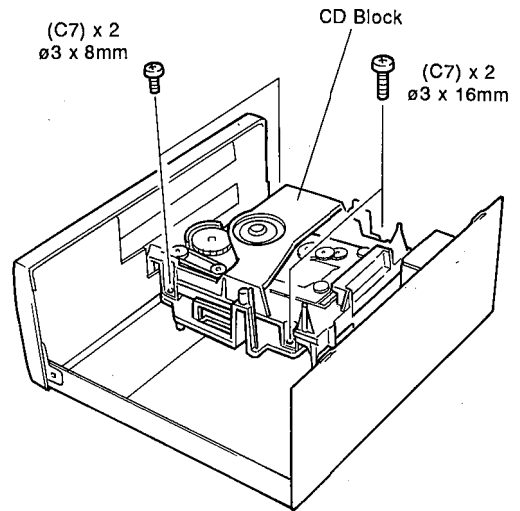


Figure 3-4

<Right side>

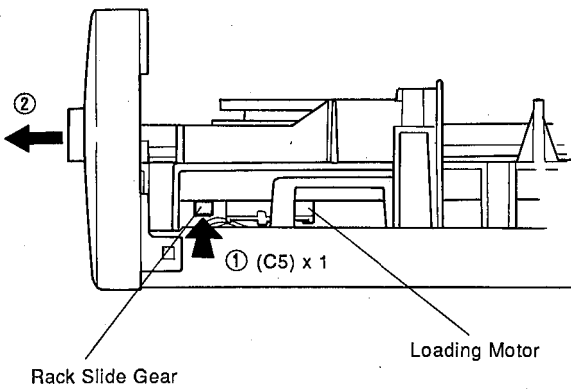


Figure 3-2

<Bottom side>

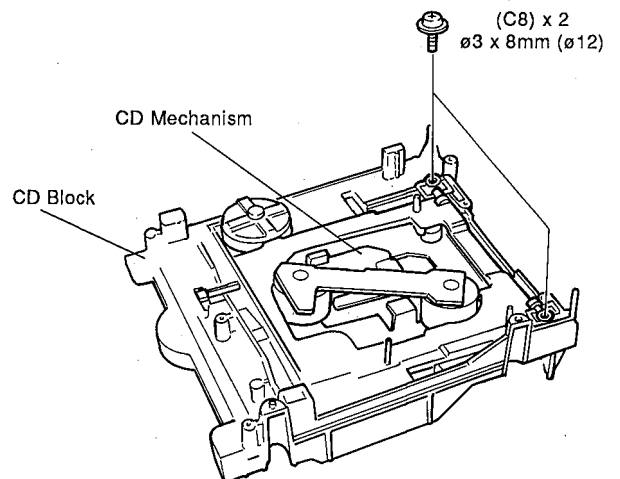


Figure 3-5

■ ADJUSTMENTS

TUNER SECTION (TCD-CC5)

• AM IF/RF

Signal generator: 400 Hz, 30%, AM modulated

fL : Low-range frequency

fH : High-range frequency

Test Stage	Frequency	Frequency Display	Specified Value/ Adjusting Point	Instrument Connection
IF	450 kHz	1,620 kHz	T605	*1 Fig. 4-1
MW band coverage	—	522 kHz	T602(fL) 1.0V± 0.05V	*2 Fig. 4-2
MW tracking	603 kHz	603 kHz	T600(fL)	Speaker terminal Fig. 4-3
	1,404 kHz	1,404 kHz	TC600(fH)	
LW band coverage	—	153 kHz	T603(fL): 1.5V±0.05V	*2 Fig. 4-2
LW tracking	162 kHz	162 kHz	T601(fL)	Speaker terminal Fig. 4-3
	261 kHz	261 kHz	TC601(fH)	

*1. Input: Antenna
Output: Pin 15 of IC600

*2. Input: Antenna
Output: Collector of Q612

• Adjusting signals (U,C models)

Frequency	Modulation Frequency	Modulation Factor	Antenna Input Level
FM monaural			
98 MHz	1,000 Hz	75 kHzdev	60 dB
FM stereo			
98MHz	1,000 Hz	*1	66 dB

*1: Max. frequency deviation is 67.5 kHzdev in case of SSG output mode MAIN.
Frequency deviation caused only by SSG pilot signal is 7.5 kHzdev.

• Adjusting signals (R, A, B, H, W models)

Frequency	Modulation Frequency	Modulation Factor	Antenna Input Level
FM monaural			
98 MHz	1,000 Hz	40 kHzdev	60 dB
FM stereo			
98MHz	1,000 Hz	*1	66 dB

*1: Max. frequency deviation is 40 kHzdev in case of SSG output mode MAIN.
Frequency deviation caused only by SSG pilot signal is 6 kHzdev.

• FM Detection

Frequency	Frequency Display	Adjusting Point	Instrument Connection
98.00MHz (60dB) MONO	98.00MHz	T604	Input: Antenna Output: R611 Fig. 4-4

*Adjust the T604 so that voltmeter reads $0 \pm 40mV$

• FM Muting Level

Frequency	Frequency Display	Adjusting Point	Instrument Connection
98.00MHz (27dB) STEREO	98.00MHz	VR600	Input: Antenna Output: Speaker terminal Fig. 4-5

*Adjust so that an output signal appears.

FM

Notes:

- Description of the "FM IF Adjustment" is not carried on this Manual. It is because the IF coil in the FM front end section has been best adjusted in the factory so that its further adjustment is not needed at the field. When replacing the FM front end assembly, no adjustment is needed either.
- The parts in the FM front end section are prepared a complete unit, so you can't obtain each part individually.

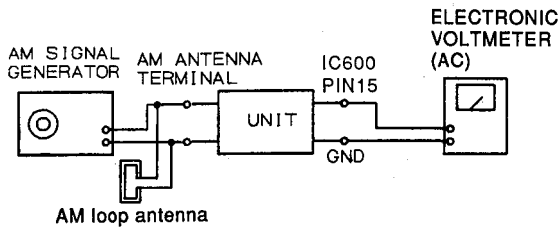


Figure 4-1 AM IF

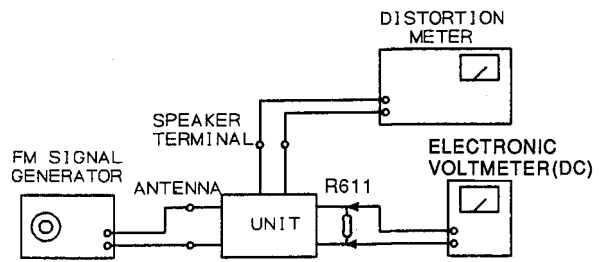


Figure 4-4 FM IF (DETECTION)

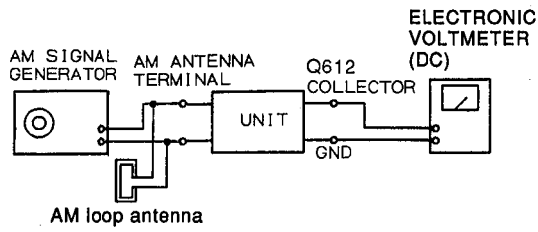


Figure 4-2 AM IF (BAND COVERAGE)

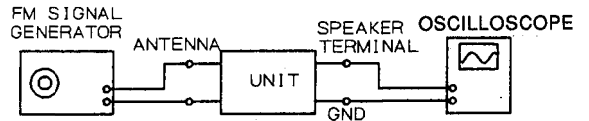


Figure 4-5 FM MUTING LEVEL

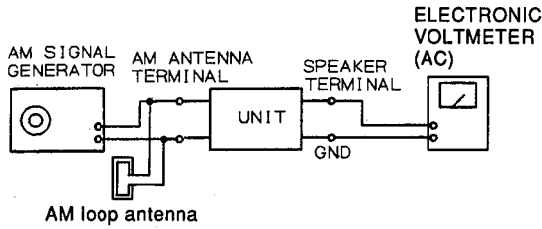


Figure 4-3 AM IF (TRACKING)

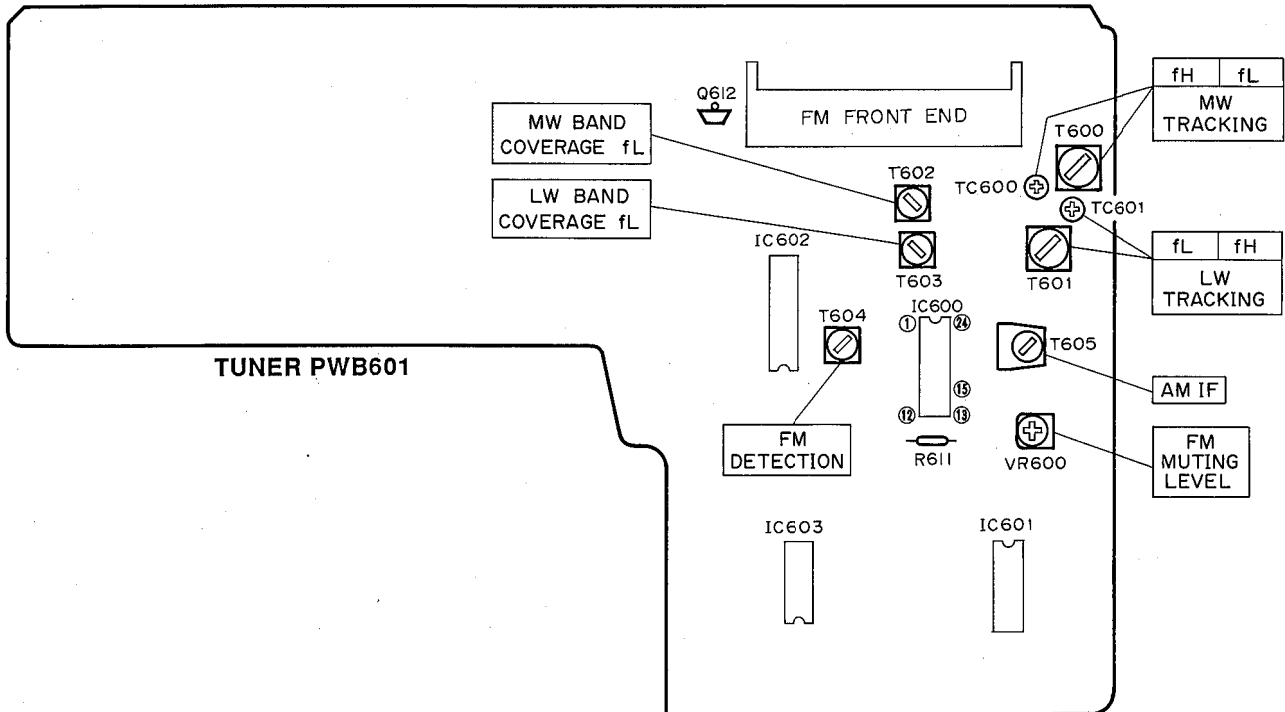


Figure 4-6 ADJUSTMENT POINTS

CD SECTION (TCD-CC5)

Test Disc

A-BEX TCD-782 (P/No. TX913350)

1. Preparation for Adjustment

- Test mode of control microcomputer
- Turn on the power switch with the **▶▶▶** button and **◀◀◀** button held down, and all the CD display segments will light. (Hold them down for approx. 5 seconds.)

2. VCO Free-Run Frequency

- Do not load the disc
- Press the STOP key.

Adjusting Point	Specified Value	Instrument Connection
VR6	4.290MHz±10kHz	TP2 and GND.

3. Servo Unit

• Focus Offset

- Do not load the disc
- Press the STOP key.

Adjusting Point	Specified Value	Instrument Connection
VR2	0±50mV	TP3 and GND.

• Tracking Offset

- Do not load the disc
- Press the STOP key.

Adjusting Point	Specified Value	Instrument Connection
VR5	0±50mV	TP4 and GND.

• Tracking Error Balance

- Load the test disc
- Play the track 1 (0:00~0:30).

Adjusting Point	Adjusting Method	Instrument Connection
VR3	*1	TP7 and GND. Figure 5-2

*1: Short TP1 to GND.
Adjust so as to obtain symmetric waveform (Figure 5-1)

• Focus Gain

- Load the test disc
- Press the PLAY key.

Adjusting Point	Adjusting Method	Instrument Connection
VR1	Adjust so that the voltage of CH-1 is equal to that of CH-2. *2	TP11, TP10 and GND.

*2: Apply sine wave (Oscillation Frequency:1.2kHz1.0Vrms) as shown in Figure 5-3.

• Tracking Gain

- Load the test disc
- Press the PLAY key.

Adjusting Point	Adjusting Method	Instrument Connection
VR4	Adjust so that the voltage of CH-1 is equal to that of CH-2. *3	TP7, TP6 and GND.

*3: Apply sine wave (Oscillation Frequency: 1.0kHz 1.0Vrms) as shown in Figure 5-4.

• Check HF output

- Load the test disc
- Press the PLAY key.

Adjusting Point	Adjusting Method	Instrument Connection
--	--	TP9 and GND.

Make sure that waveform is shown in Figure 5-5.

• Check Focus Offset

• Check Tracking Offset

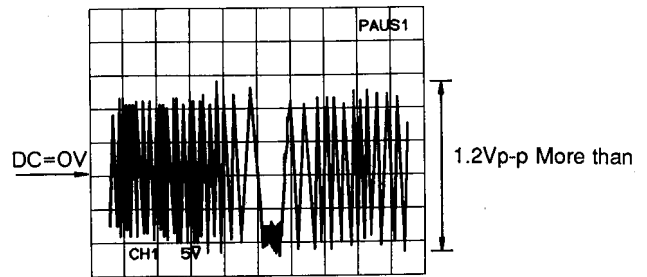


Figure 5-1 TRACKING ERROR BALANCE
V : 5V/div H : 2msec/div
DC range 10 : 1 probe

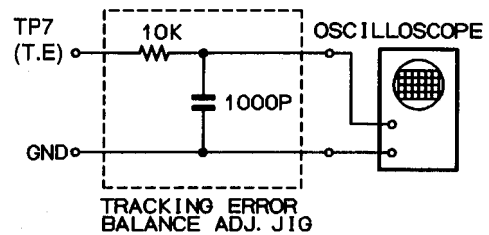


Figure 5-2 TRACKING ERROR BALANCE

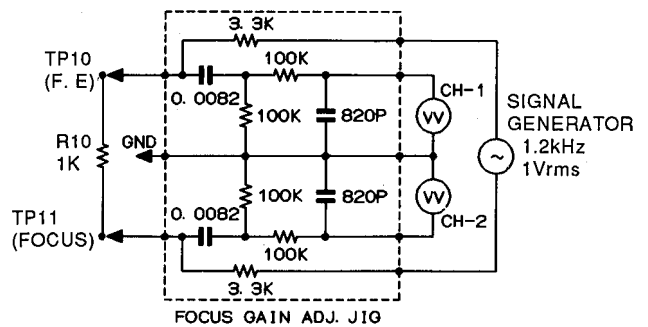


Figure 5-3 FOCUS GAIN

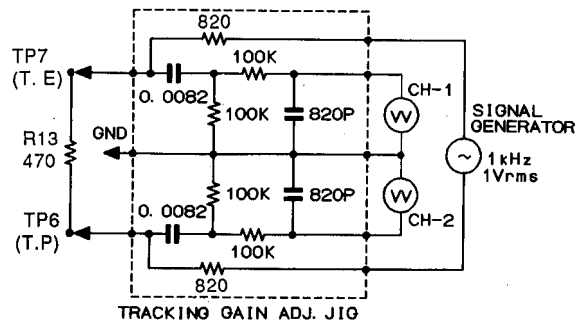


Figure 5-4 TRACKING GAIN

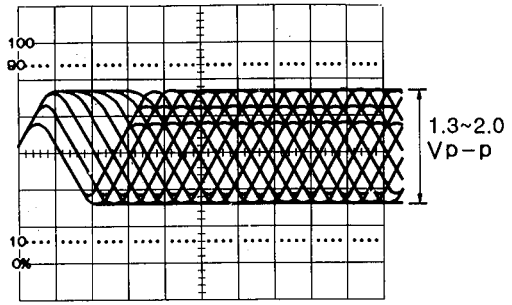
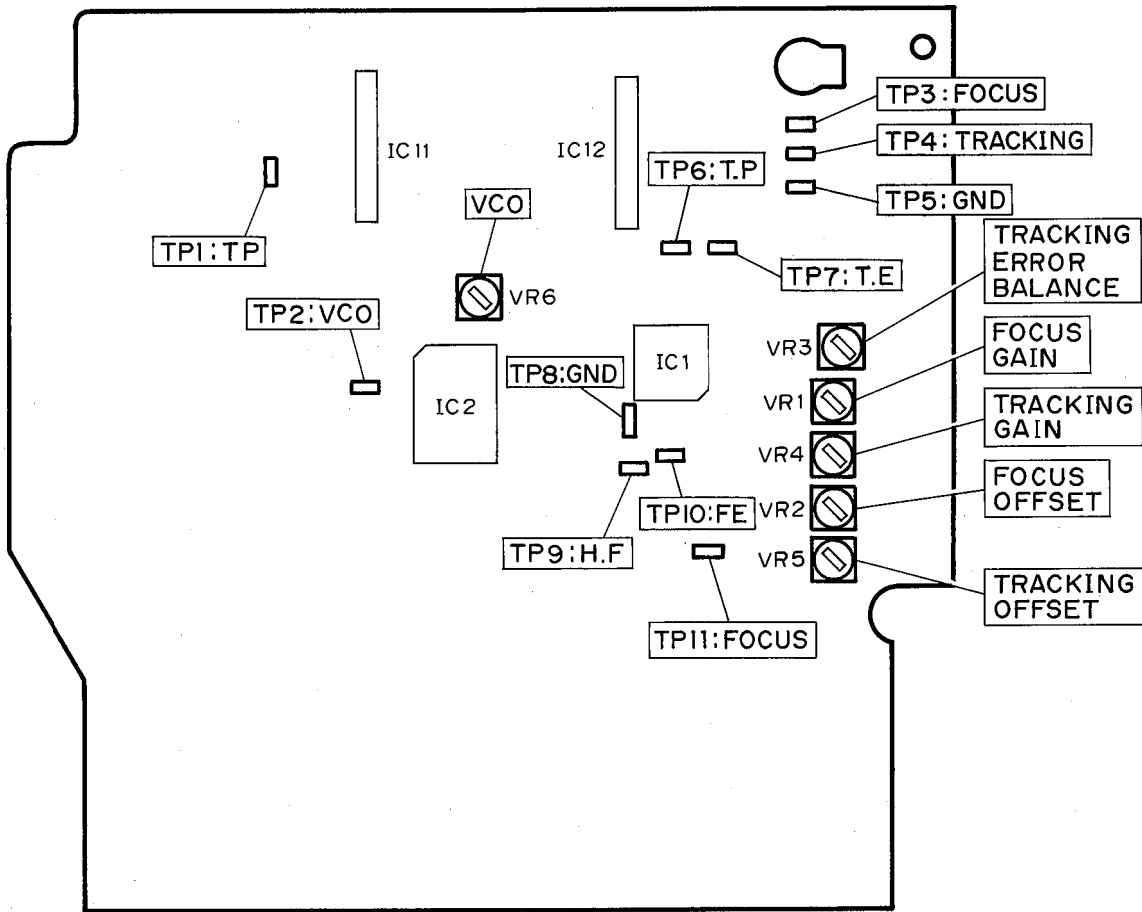


Figure 5-5 HF OUTPUT

V : 5V/div H : 0.5 μ sec/div
 AC range 10 : 1 probe



CD SERVO PWB-1

Figure 5-6 ADJUSTMENT POINTS

DECK SECTION (K-CC5)

Before adjustment

- Since head magnetization, dust accumulations, etc. are likely to introduce error in the various characteristics, it is very important that the heads are properly demagnetized and cleaned.
- Except for azimuth adjustment, adjust in the forward direction.

Torque meter required

TW-2111A (TX911580)	Take up/back tension (FWD)
TW-2121A (TX911570)	Take up/back tension (RVS)
TW-2231	FF/REW
TW-2412 (TX911640)	Driving power (FWD)
TW-2422 (TX911630)	Driving power (RVS)

Test tape required

MTT-111N (TX911650)	Normal speed
MTT-114N (TX911680)	Azimuth
MTT-150 (TX911250)	Dolby playback level (Dolby B-Type)
Normal (LH)	MTT-502 (TX911200)
High (CrO2)	AC513 (TX911750)

Setting position of switch and knob

Input selectorTape
Dolby NROff

• Driving Force Check

Torque Meter	Specified Value	
	Tape a	Tape b
Play: TW-2412	Over 80 g	Over 80 g
Reverse Play: TW-2422	Over 80 g	Over 80 g

• Torque Check

Torque Meter	Specified Value	
	Tape a	Tape b
Play: TW-2111	30 to 60 g.cm	30 to 60 g.cm
Reverse Play: TW-2121	30 to 60 g.cm	30 to 60 g.cm
Fast Forward: TW-2231	70 to 140 g.cm	70 to 140 g.cm
Rewind: TW-2231	70 to 140 g.cm	70 to 140 g.cm

• Head Azimuth (Figure 6-1 and 6-2)

Remove the cassette covers (a) & (b)

- 1) Open the cassette cover (a).
- 2) Hold the outside cassette holder by hand then firmly push on the left of the cassette cover (a).

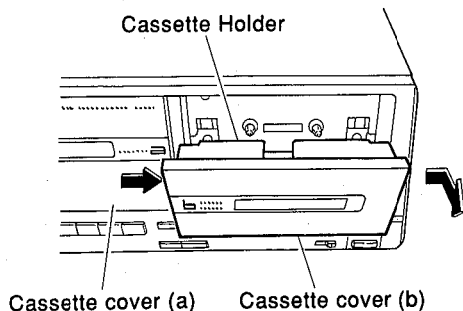
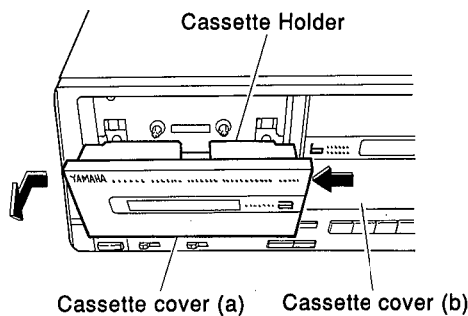


Figure 6-1

Test Tape	Instrument Connection
MTT-114N	L: Pin 1 and Pin 2 (G) of TP471 R: Pin 3 and Pin 2 (G) of TP471 Playback output of L and R is maximum and phase difference should be minimum both directions. (Figure 6-3)

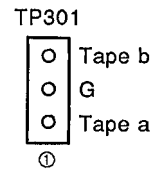
• Tape Speed (Normal)

Test Tape	Adjusting Point	Specified Value	Instrument Connection
MTT-111N	TAPE a: VR301 TAPE b: VR303	3000±25Hz	L: Pin 1 and Pin 2 (G) of TP471

• Tape Speed (High)

Test Tape	Adjusting Point	Specified Value	Instrument Connection
MTT-111N	TAPE a: VR302 TAPE b: VR304	5000±40Hz	L: Pin 1 of TP471 R: Pin 3 of TP471

- * Adjust the normal speed initially, and next the high speed.
- * During normal speed, short TP301 to GND.



• Playback Amplifier Sensitivity

Test Tape: MTT-150 (Dolby B-type)

Set the Doby NR switch to B.

	Adjusting Point	Specified Value	Instrument Connection
Tape a	L: VR401 R: VR402	580mV±1dB	L: Pin 1 of TP471 R: Pin 3 of TP471
Tape b	L: VR403 R: VR404		

• Record/Playback Sensitivity (Tape b)

Test Tape: MTT-502 (Normal)

Input Level	Adjusting Point	Specified Value	Instrument Connection
*1	R: VR471 L: VR472	Normal: 410mV CrO2: 326~516mV	Input: AUX IN (1kHz) Output: TP471

- *1: Adjust the oscillator so that TP471 output is 410mV in the recording mode.

• Bias Current

Test Tape : AC513 (CrO2)

MTT-502 (Normal)

Adjusting Point	Specified Value (AC)	Instrument Connection
L: VR441 R: VR442	CrO2: 78mV Normal: 55±6.5mV	L: Pin 2 of TP441 R: Pin 4 of TP441

- * Use a CrO2 tape for adjustment and a Normal tape for confirmation.

• Record/Playback Frequency Response Check

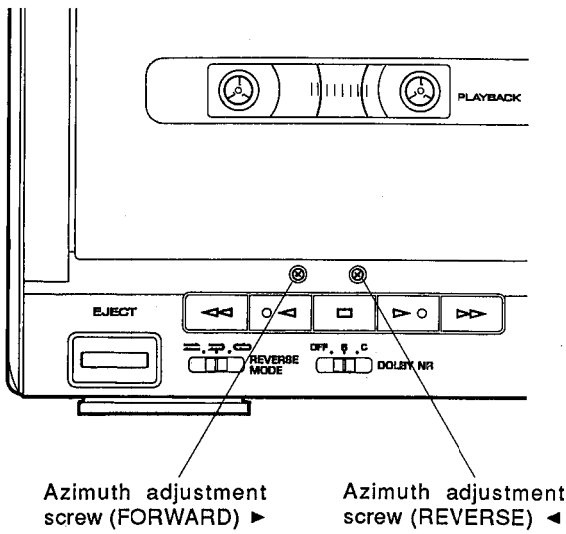
Test Tape : MTT-502 (Normal)

AC513 (CrO2)

Tape	Specified Value	Instrument Connection
Normal	100Hz	Input : AUX IN Output : TP471 *2
	10kHz	
CrO2	100Hz	
	10kHz	

- *2: With the output level of TP471 set to 41mV (1kHz), measure the level difference by changing the frequency to 100Hz and 10kHz.

When the specified value has not been satisfied, a bias current adjustment should be made again.



* After the adjustment make sure to apply screw lock paint. (Remove the cassette cover)

Figure 6-2 AZIMUTH POINTS

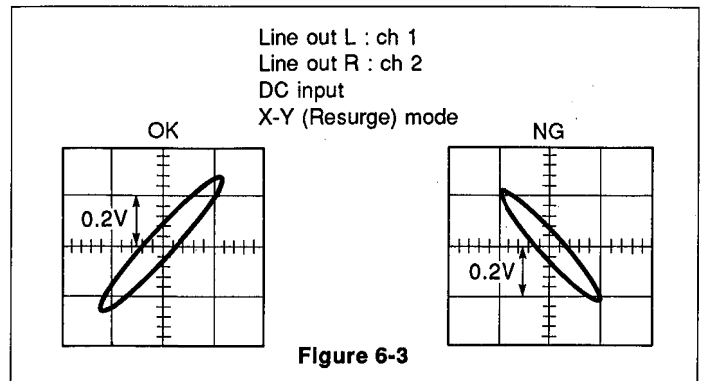


Figure 6-3

DECK AMP PWB301

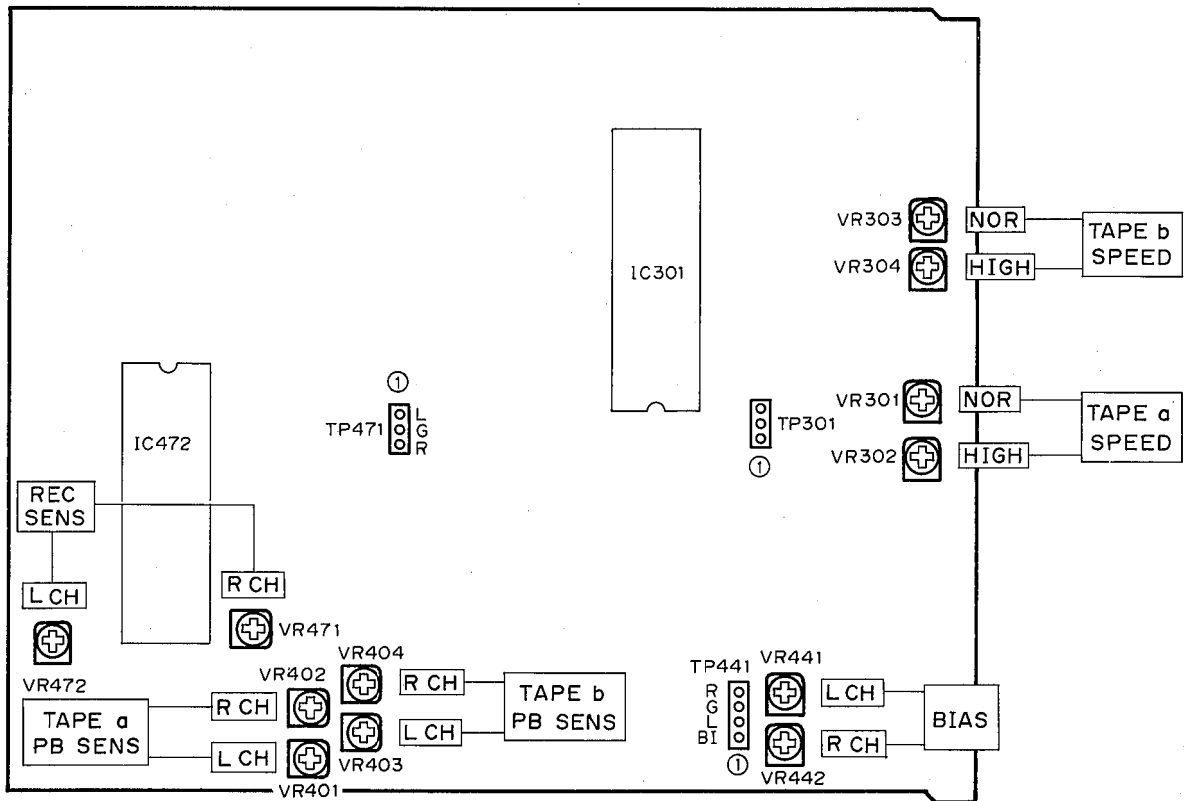


Figure 6-4 ADJUSTMENT POINTS

■ TEST FUNCTION

DECK SECTION (K-CC5)

TEST mode

With the power of the main unit turned ON, set the function to TAPE. Disconnect the flat cable connector (white) from the back side of the cassette. While pressing both FF key and REW key on the B deck simultaneously, insert the flat cable connector (white).

* It is possible to operate the mechanism even when the cassette tape is not loaded.

① Check for led lighting

As soon as the mechanical operation is initialized, LEDs light twice each at 170mS intervals in the order of RVS (Tape a) → FWD (Tape a) → REC → NSDB → HSDB → RVS (Tape b) → FWD (Tape b).

[Reception of MECHANICAL switch and its content]

CASSETTE switch : Mechanical operation is possible regardless of ON/OFF (Mechanical operation is possible even without a cassette.)

FULL PROOF switch : Same as the above.

(A-FP, B-FP)

The same as normal operation with PLAY, F/R switches.

[Reception of operation key and its operation]

Content different from normal condition

- **REC key** : Simply pressing this key will initiate FORWARD (side A) recording.
- **FWD key** : Pressing this key during recording will rewind the tape to the point where recording was started and set the FUNCTION switch to TAPE.

With other keys, the content is the same as the normal operation.

② Check for recording and playback operation

This procedure is to check the recording and playback characteristics of the tape-recorder within a short time.

- (1) With the tape loaded onto the side B mechanism, pressing the REC key will initiate recording on the side A (FWD).
- (2) Pluses of RUN PULSE input are counted.

- (3) When the FWD key is pressed, the number of pluses counted up to this point minus 2 will be stored in the memory and the mechanism will be stopped.

(If the counted number is 2 or less, reception of the FWD key will be cancelled.)

- (4) Following the above step, the tape-recorder enters the rewinding mode, pulses of RUN PULSE input are counted and when the counted number agrees with the number in memory, the mechanism will be stopped and the function will be set to TAPE.

- (5) Pressing the STOP key and then the FWD key will initiate playback of what has been recorded.

- (6) Operation provided when the FWD key is pressed after the mechanism was stopped as described in above step (5)

- When the counted number agreed with the number in memory Steps (3) to (5) are repeated.

- When the STOP key was pressed Operation in (3) and following steps is skipped but playback of the side A (FWD) occurs immediately.

Note : If the tape is not loaded (CST 2 : H) in the mechanism at this point, the operation in (2) and following steps does not take place but simply recording as in (1) takes place.

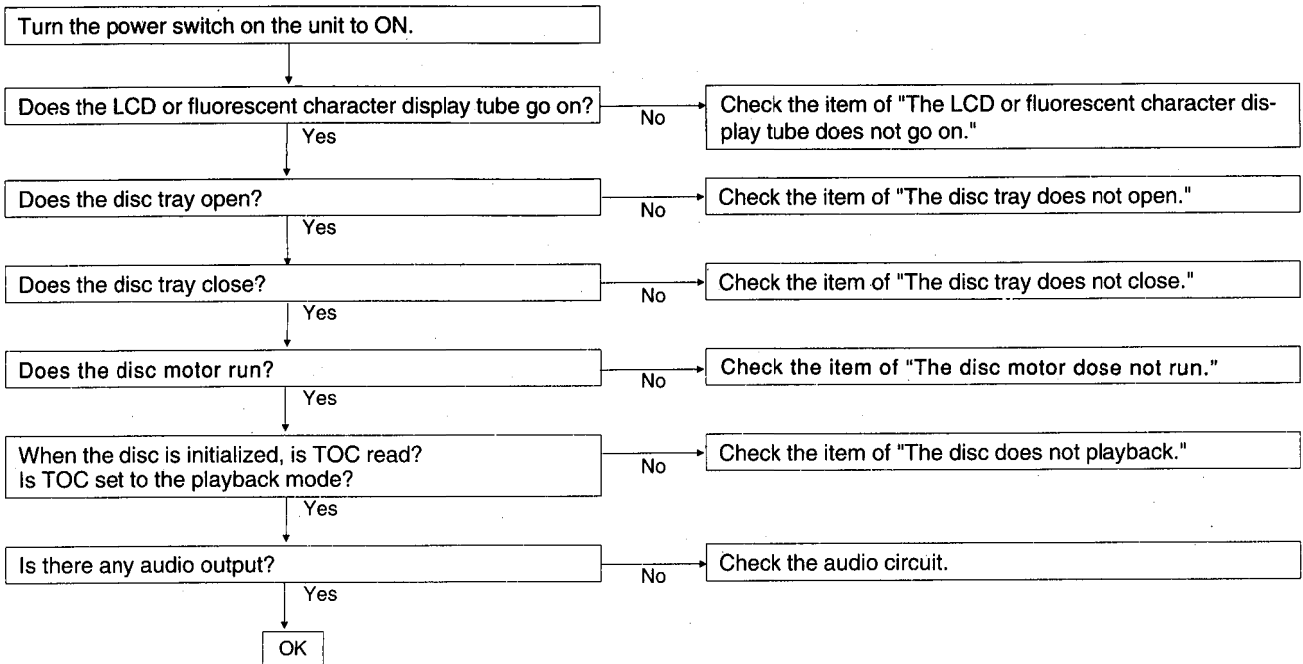
③ Cancellation of TEST mode

Remove the power plug and plug it in again.

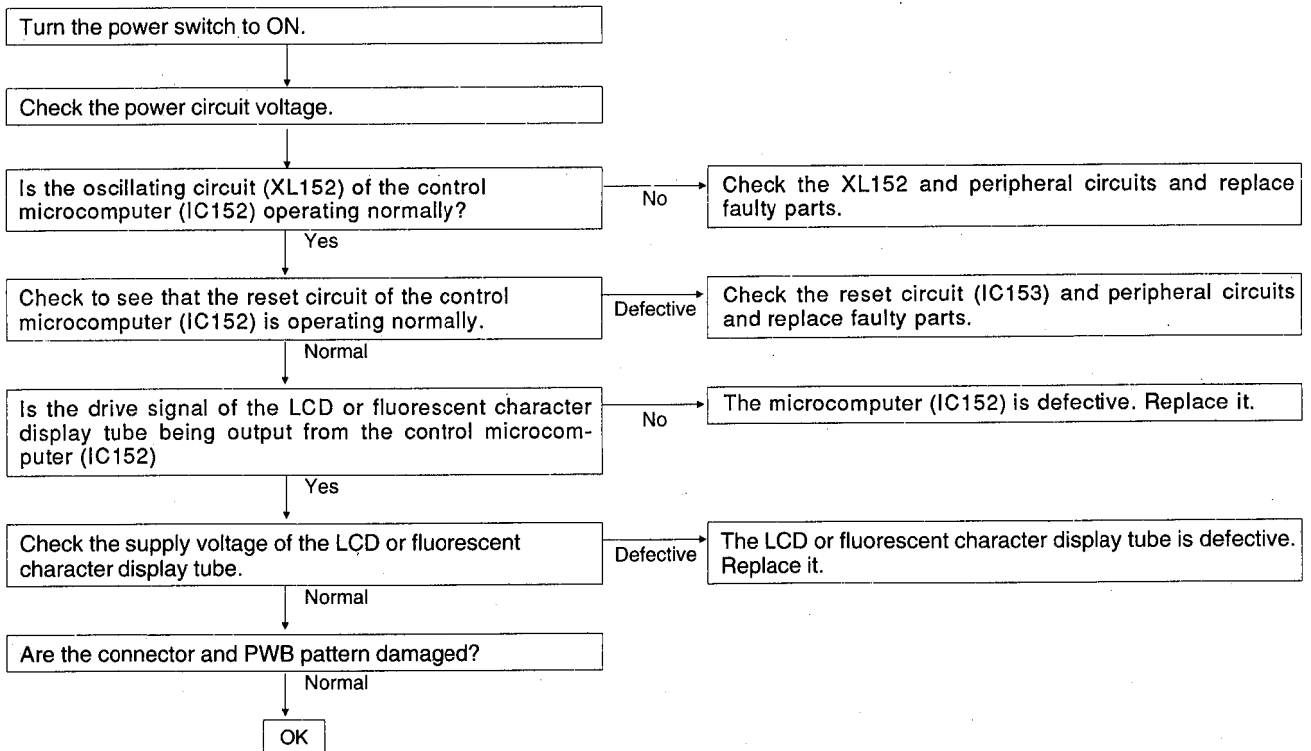
* Turning the POWER switch ON/OFF will not cancel the test mode.

■ TROUBLE SHOOTING (CD SECTION)

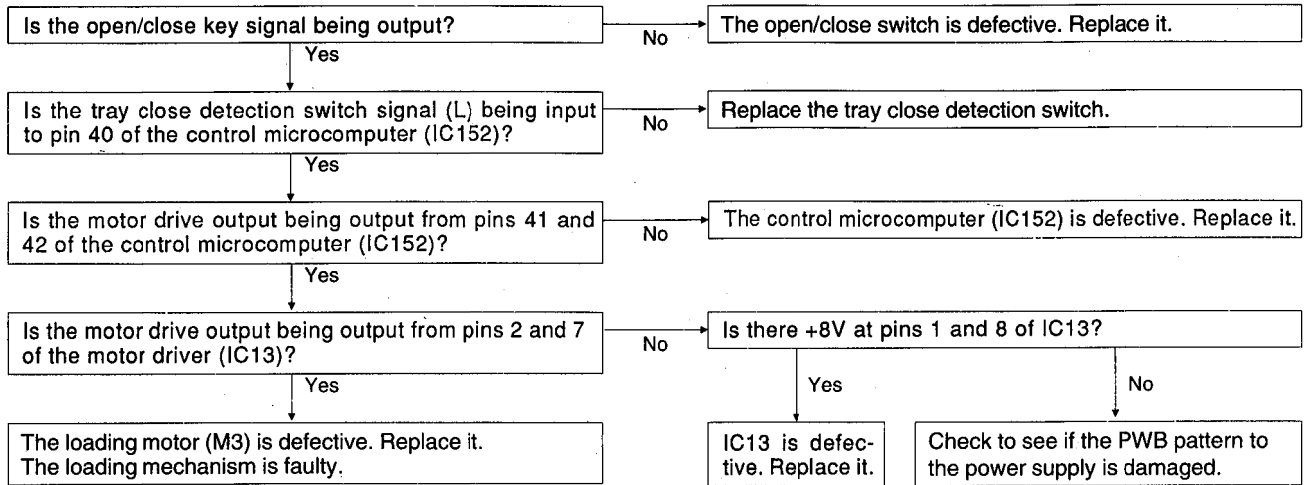
Remove the cabinet and follow the trouble-shooting instructions.



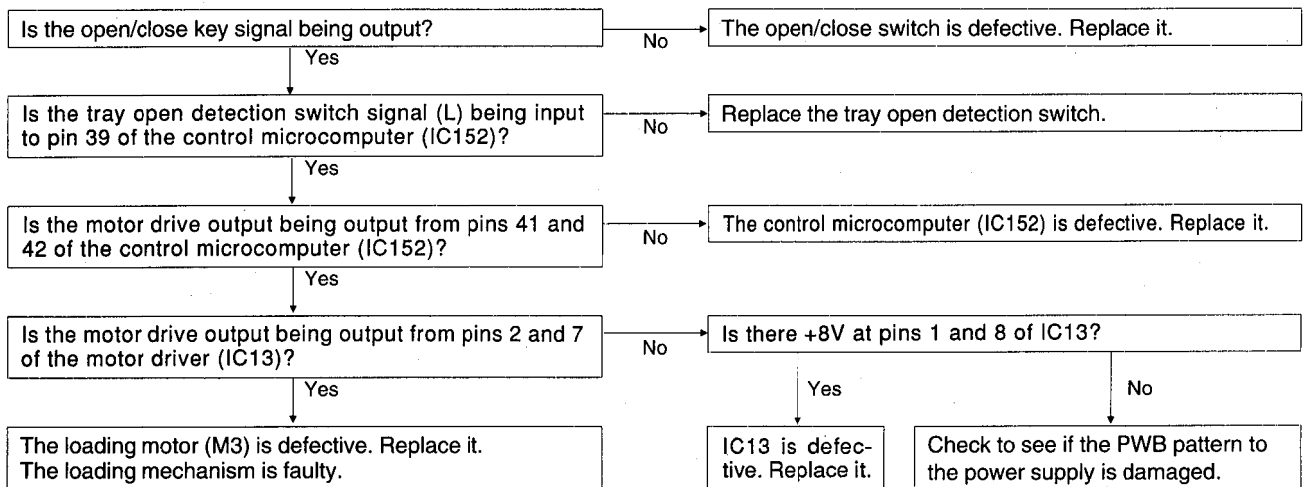
The LCD or fluorescent character display tube does not go on.



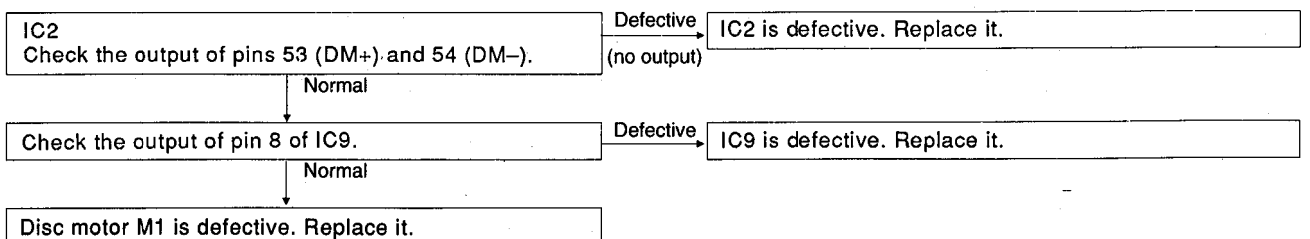
• The disc tray does not open.



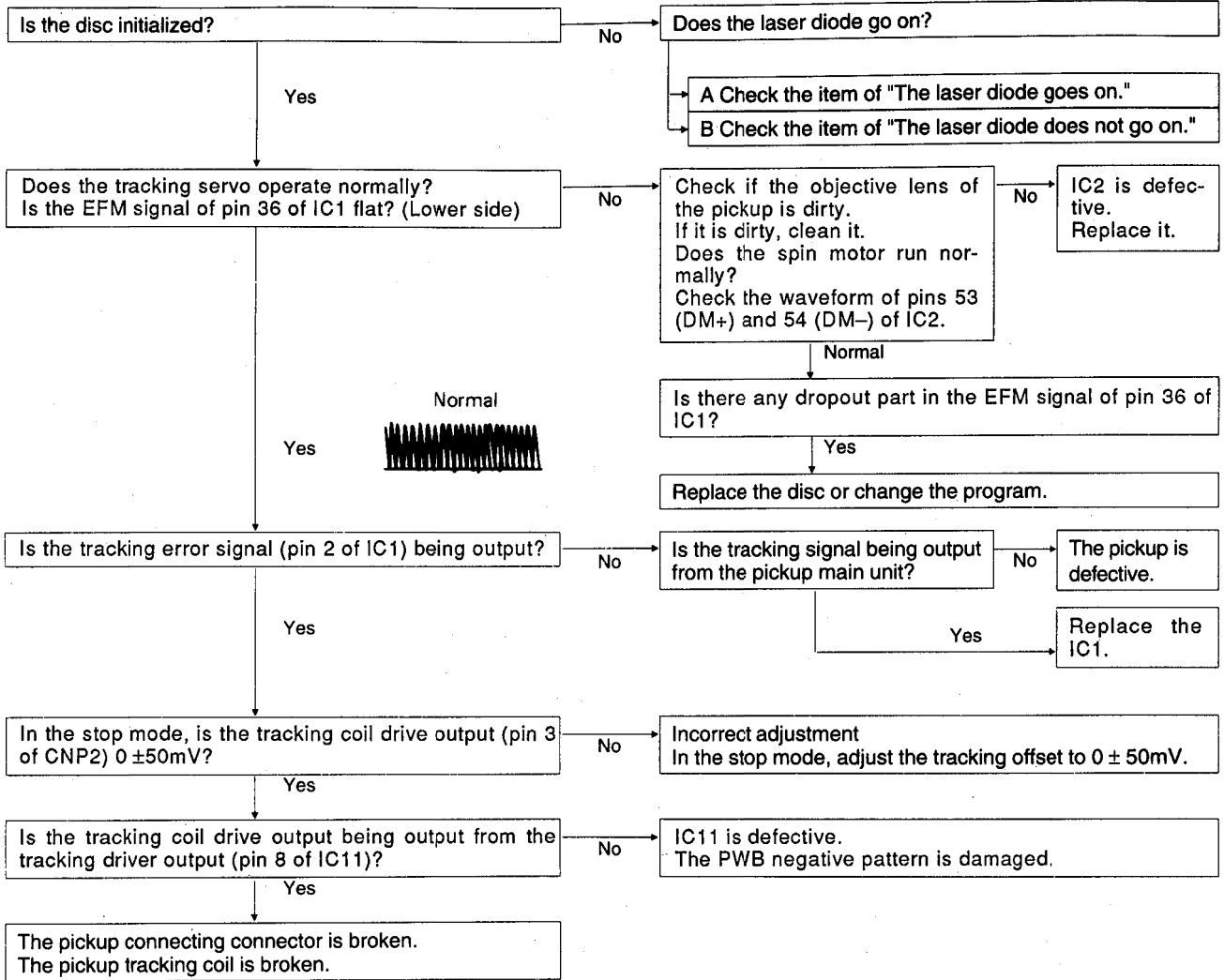
• The disc tray does not close.



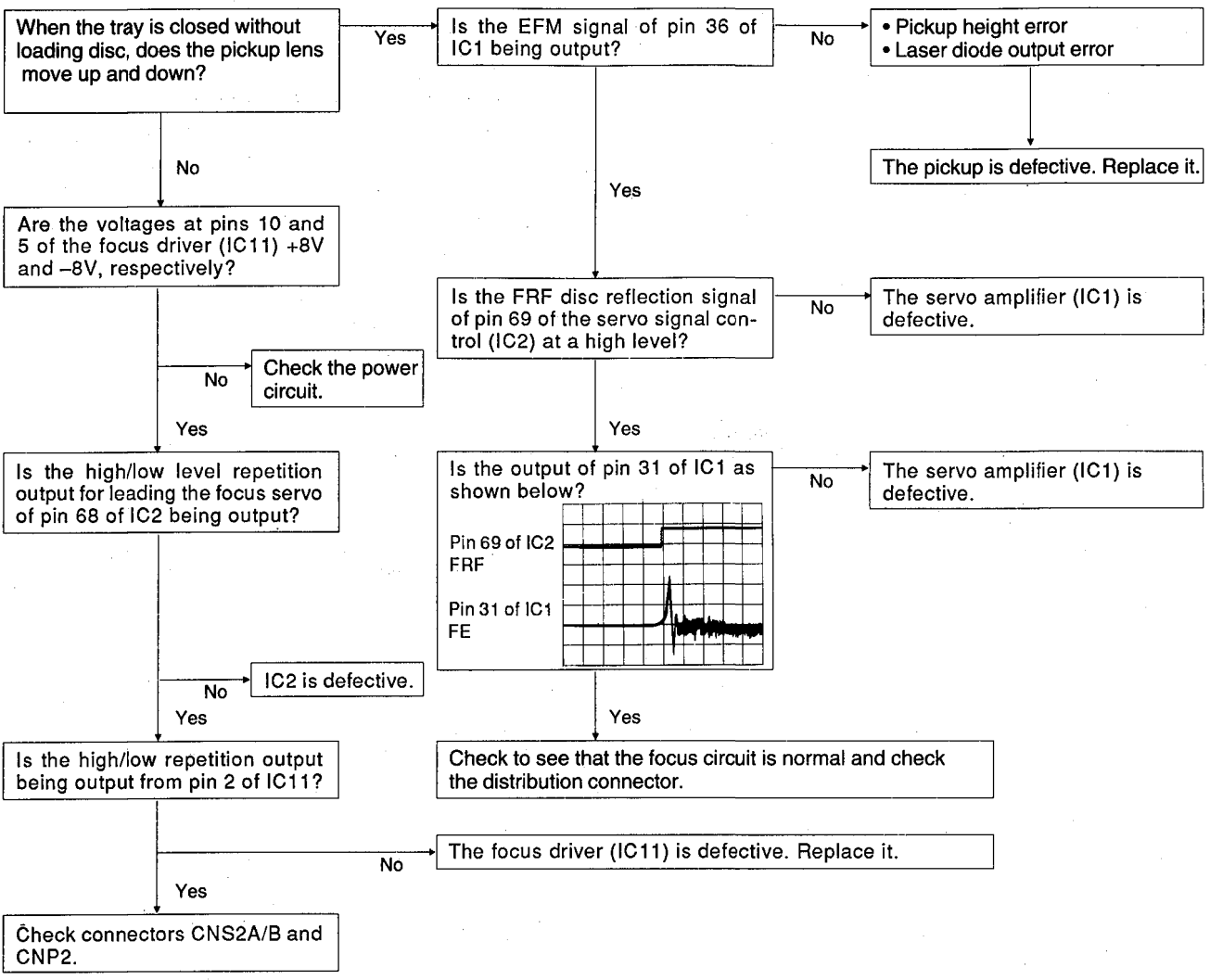
• The disc motor does not run.



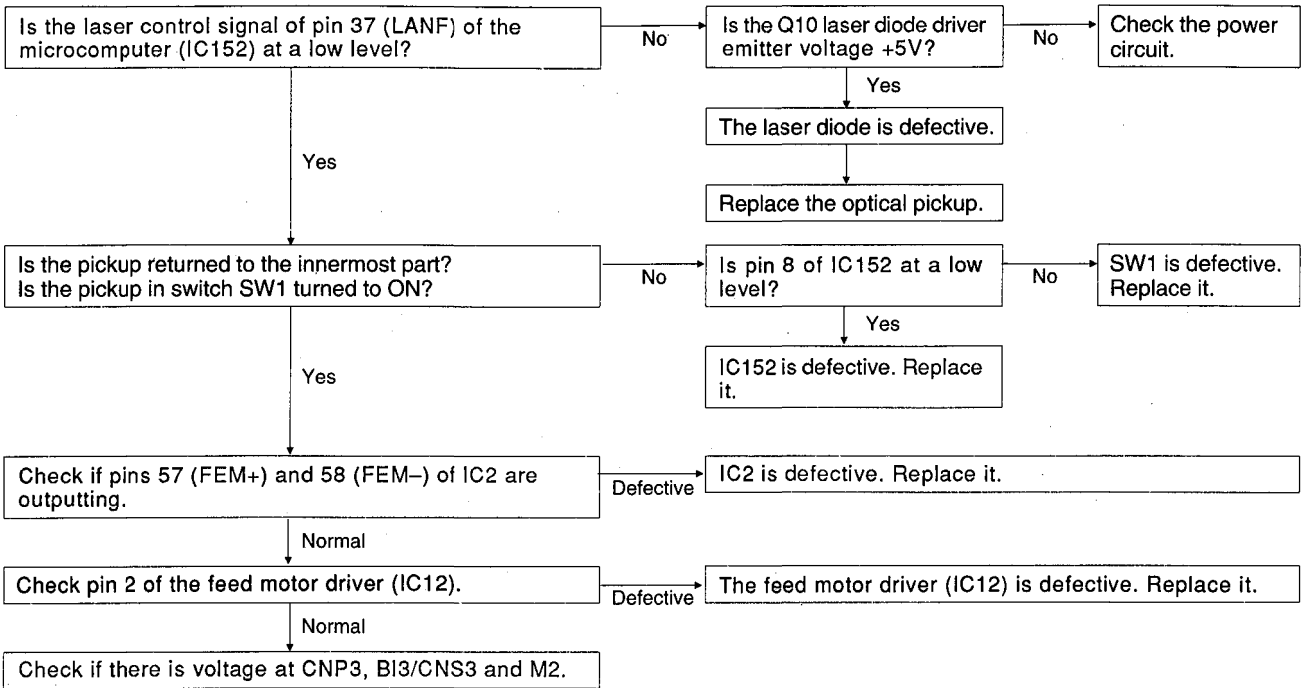
The disc does not playback.



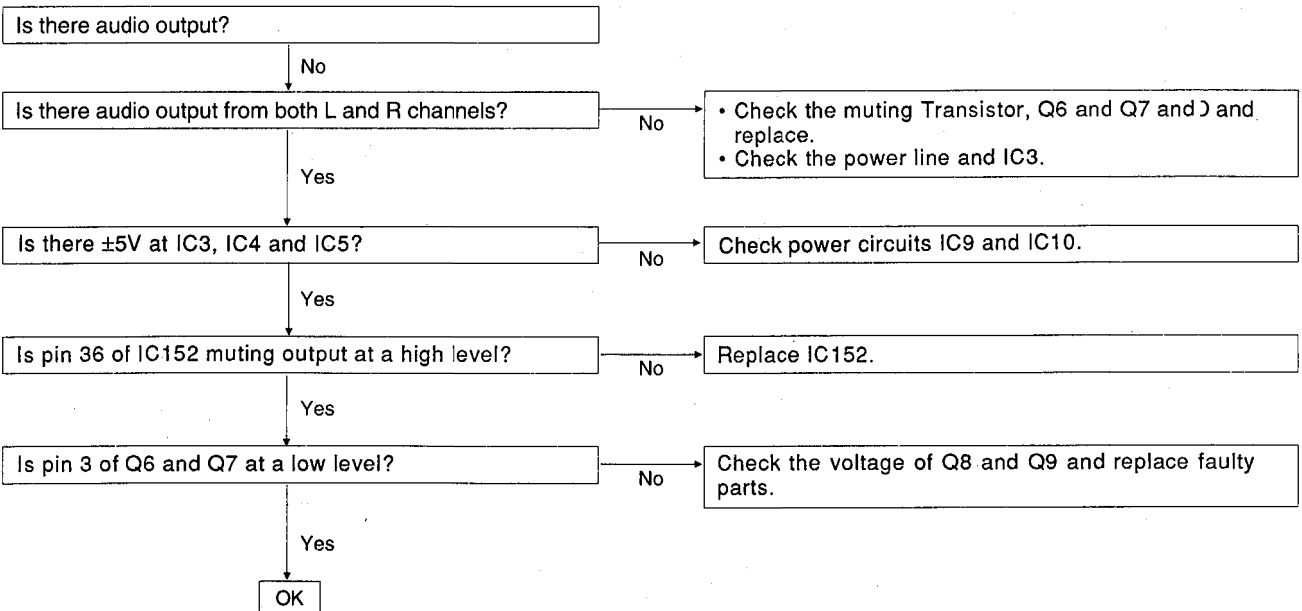
A The laser diode goes on.



• B The diode does not go on.

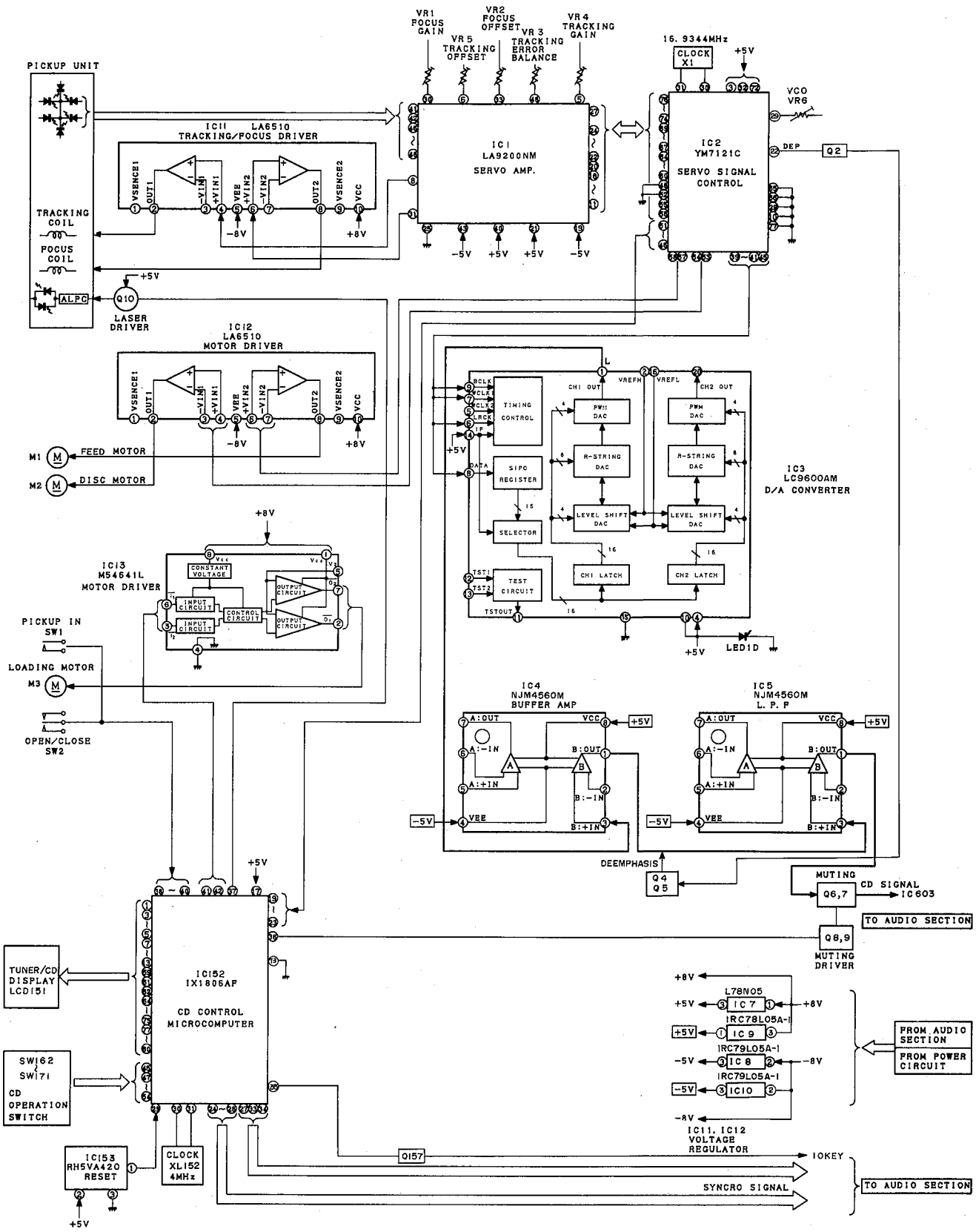


• Checking the audio circuit.



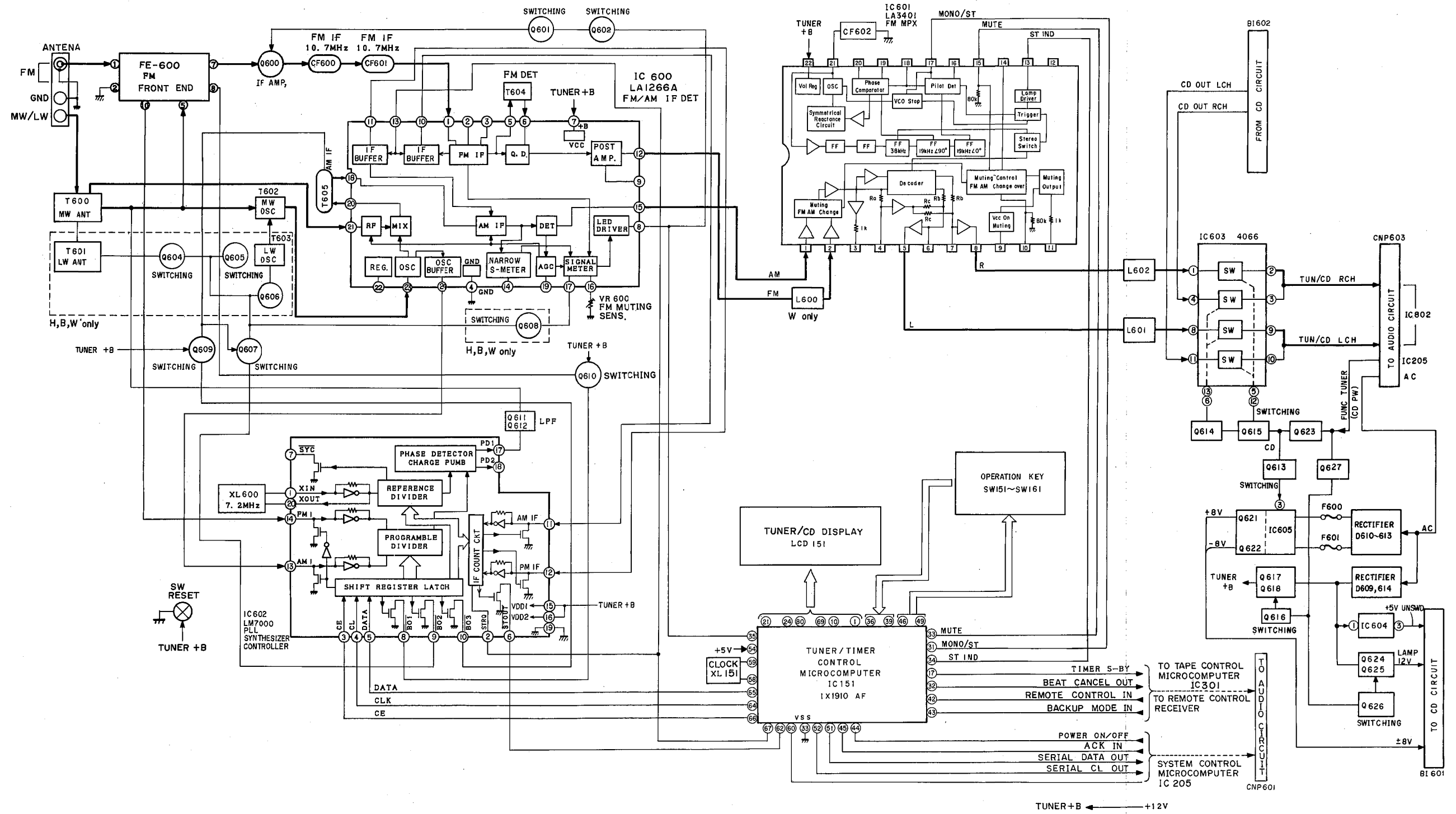
■ BLOCK DIAGRAM

CD SECTION



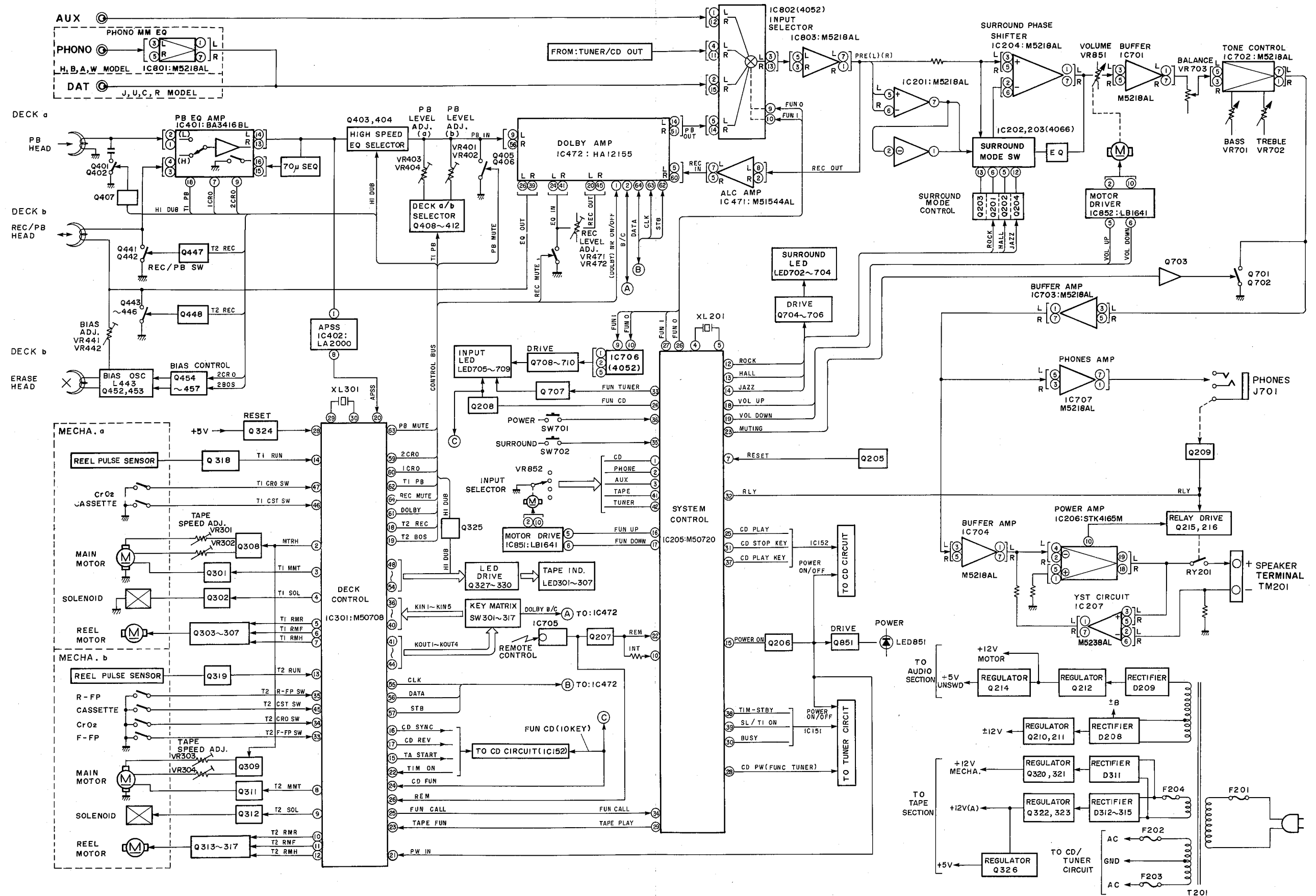
■ BLOCK DIAGRAM

TUNER SECTION



■ BLOCK DIAGRAM

TAPE & AUDIO SECTION

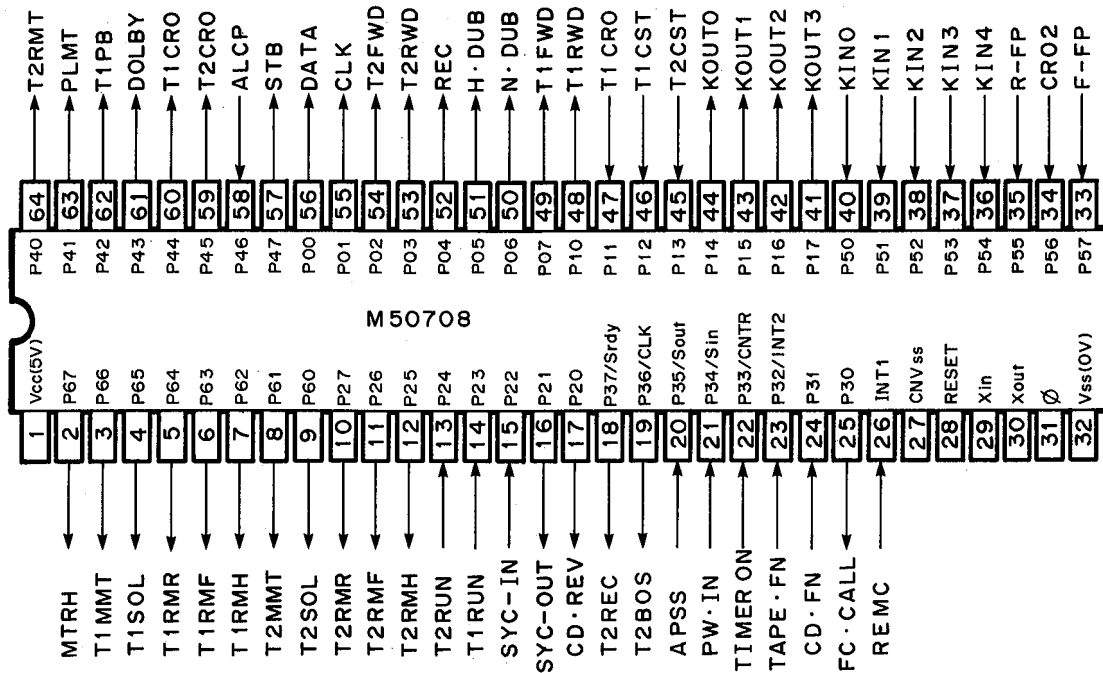


■ IC DATA

IC205 : M50720
(RH-IX2034AFZZ)

Pin No.	Pin name	Signal name	I/O	Resetting H/L	Initializing H/L	Active H/L	Pull U/D
1	F1	Function switch CD	I	—	—	L	U
2	F2	Function switch PHONO	I	—	—	L	U
3	F3	Function switch AUX	I	—	—	L	U
4	X OUT	Clock output 2MHz	O	—	—	—	—
5	X IN	Clock input 2MHz	I	—	—	—	—
6	CE	Return input	I	—	L	H	H
7	RESET	Reset	I	—	—	L	—
8	VDD	Power supply	—	—	—	—	—
9	CNTR	Timer input/output (open)	I	—	—	—	—
10	INT	Remote control	I	H	—	↑	U
11	C	External terminal of capacitor (open)	—	—	—	—	—
12	G0	Sound ROCK	O	—	H	L	U
13	G1	Sound HALL	O	—	H	L	U
14	G2	Sound JAZZ	O	—	H	L	U
15	G3	Power ON	O	—	H	L	U
16	S0	Function motor UP	O	—	L	H	U
17	S1	Function motor DOWN	O	—	L	H	U
18	S2	Volume motor UP	O	—	L	H	U
19	S3	Volume motor DOWN	O	—	L	H	U
20	CNVss	CNVss	—	—	—	—	—
21	VSS	Ground	—	—	—	—	—
22	S4	Remote control	I	H	—	↑	U
23	S5	MUTING	O	—	H	H	U
24	S6	Function CD	O	—	H	L	U
25	S7	CD PLAY	O	—	L	H	U
26	D0	F(0)	O	—	H	L	U
27	D1	F(1)	O	—	H	L	U
28	D2	CD power supply control	O	—	L	H	U
29	D3	TAPE PLAY	O	—	L	H	U
30	D4	BUSY	O	—	L	H	U
31	D5	CD STOP KEY	O	—	L	H	U
32	D6	SP.RLY	O	—	L	H	U
33	D7	Function TUNER	O	—	H	L	U
34	D8	TAPE Function CALL	I	H	—	L	U
35	D9	SURROUND KEY	I	H	—	L	U
36	D10	POWER KEY	I	H	—	L	U
37	D11	CD PLAY KEY	I	H	—	L	U
38	K0	TIMER ST.BY	I	L	—	H	U
39	K1	SLEEP, TIMER.ON	I	L	—	H	U
40	K2	Function switch REVOLUTION DETECT	I	—	—	L	U
41	K3	Function switch TUNER	I	—	—	L	U
42	F0	Function switch TAPE	I	—	—	L	U

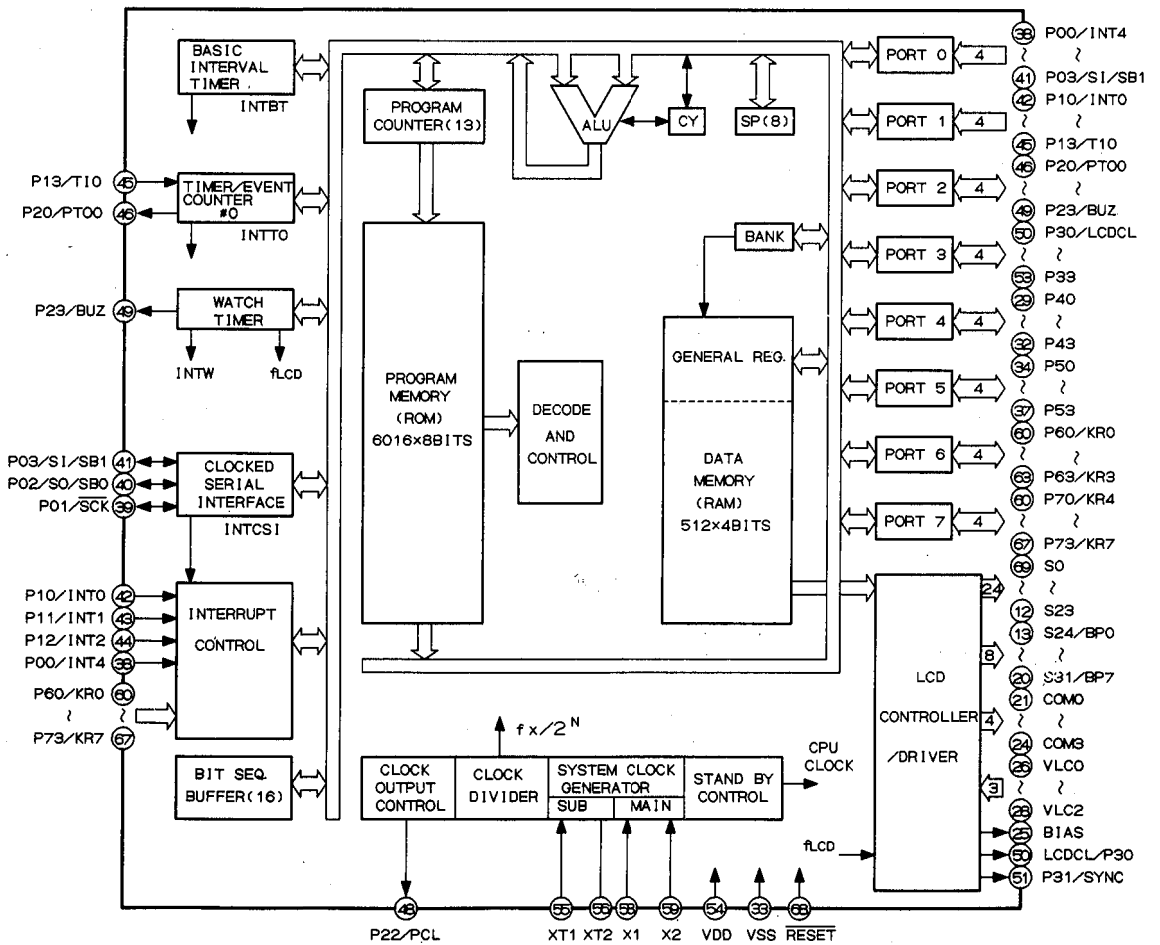
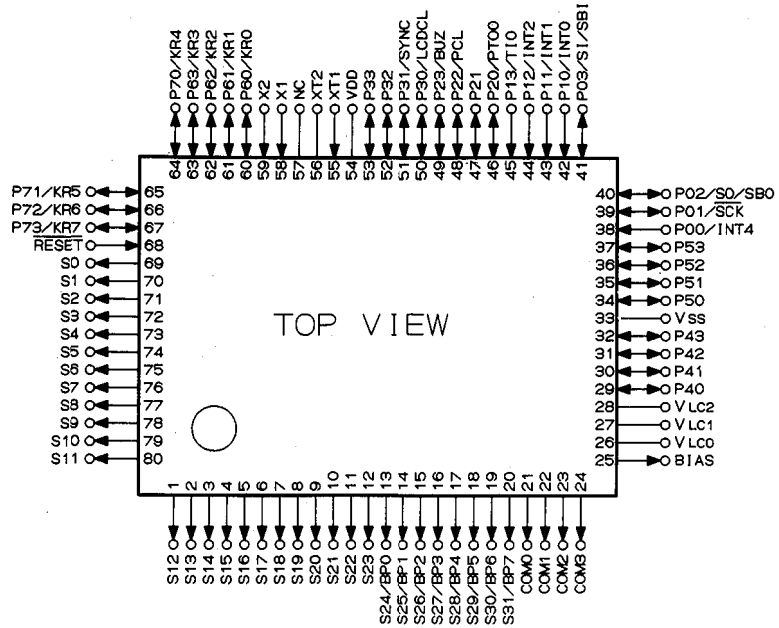
IC301 : M50708
(RH-IX2033AFZZ)



Pin	Port name	I/O	Function	Active
1	VDD		Power supply (5V)	
2	MTRH	O	Capstan motor revolution select High speed : H Others : L	H/L
3	T1MMT	O	Tape 1 Main motor output Running : H Stop : L	H/L
4	T1SOL	O	Tape 1 solenoid output (used for trigger and status retention)	L
5	T1RMR	O	Tape 1 Reel motor control RMR RMF Stop H H Forward run H L Reverse run L L	H/L
6	T1RMF			
7	T1RMH			
8	T2MMT	O	Tape 2 Main motor output Running : L Stop : H	H/L
9	T2SOL	O	Tape 2 Solenoid output (used for trigger and status retention)	L
10	T2RMR	O	Tape 2 Reel motor control RMR RMF Stop H H Forward run H L Reverse run L L	H/L
11	T2RMF			
12	T2RMH			

Pin	Port name	I/O	Function	Active
13	T2RUN	I	Running pulse generation Tape running status detect input	
14	T1RUN			
15	SYC-IN	I	While REC : H While REC pause : L	
16	SYC-OUT	O	While REC : H Other than REC : L	H/L
17	CD REV	O	Tape side A : L Tape side B : H	H/L
18	T2REC	O	While tape is in REC : H Others : L	H
19	T2BOS	O	Tape 2 Bias output	L
20	APSS	I	Input for detecting between numbers	
21	PW-IN	I	Power ON input At ON : L	
22	TIMERON	I	TIMER H at TIMER start. Once in H, TIMER-Rec and TIMER-Play is executed according to the mode of the slide SW.	
23	TAPE Function	I	H when function is CTAPE.	
24	CD Function	I	H when function is CD.	
25	Function CALL	O	TAPE function CALL is executed when TAPE-PLAY key is pressed.	L
26	REMC	I	Remote control input	
33	F-FP	I	Detection of REC-FP switch on FWD side of TAPE 2	
34	T2CRO	I	TAPE 2 crome detect switch	
35	T2CST	I	TAPE 2 cassette detect switch	
36	T2R-FP	I	Detection of REC-FP switch on FWD side of TAPE 2	
37	KIN4	I	Key matrix input line	
38	KIN3			
39	KIN2			
40	KIN1			
41	KIN0			
42	KOUT3	O	Key matrix output line	L
43	KOUT2			
44	KOUT1			
45	KOUT0			
46	T1CST	I	TAPE 1 cassette detect	
47	T1CRO	I	TAPE 1 crome detect switch	
48	T1RWD	O	TAPE 1 RWD-PLAY indicator	L
49	T1FWD	O	TAPE 1 FWD-PLAY indicator	L
50	N-DUB	O	Normal speed dubbing indicator	L
51	H-DUB	O	High speed dubbing indicator	L
52	REC	O	REC indicator	L
53	T2RWD	O	TAPE 2 RWD-PLAY indicator	L
54	T2FWD	O	TAPE 2 FWD-PLAY indicator	L
55	CLK	O	RECiC control clock	H/L
56	DATA	O	RECiC control data	H/L
57	STB	O	RECiC control strobe	H/L
58	ALC	I	Detection to control signals by REC volume in RECiC	
59	T2CRO	O	H when TAPE 2 cassette is crome	H/L
60	T1CRO	O	H when TAPE 1 cassette is crome	H/L
61	DOLBY	O	H and L reversed at DOLBY ON and OFF ON : H OFF : L	H/L
62	T1PB	O	H when TAPE 1 is played back and L others.	H/L
63	PLMT	O	Play back muting L when tape is played back and H for others	H/L
64	T2RMT	O	Tape 2 REC-MUTE REC : L Playback : H	H/L

IC151 : μ PD75308
(RH-IX1910AFZZ)



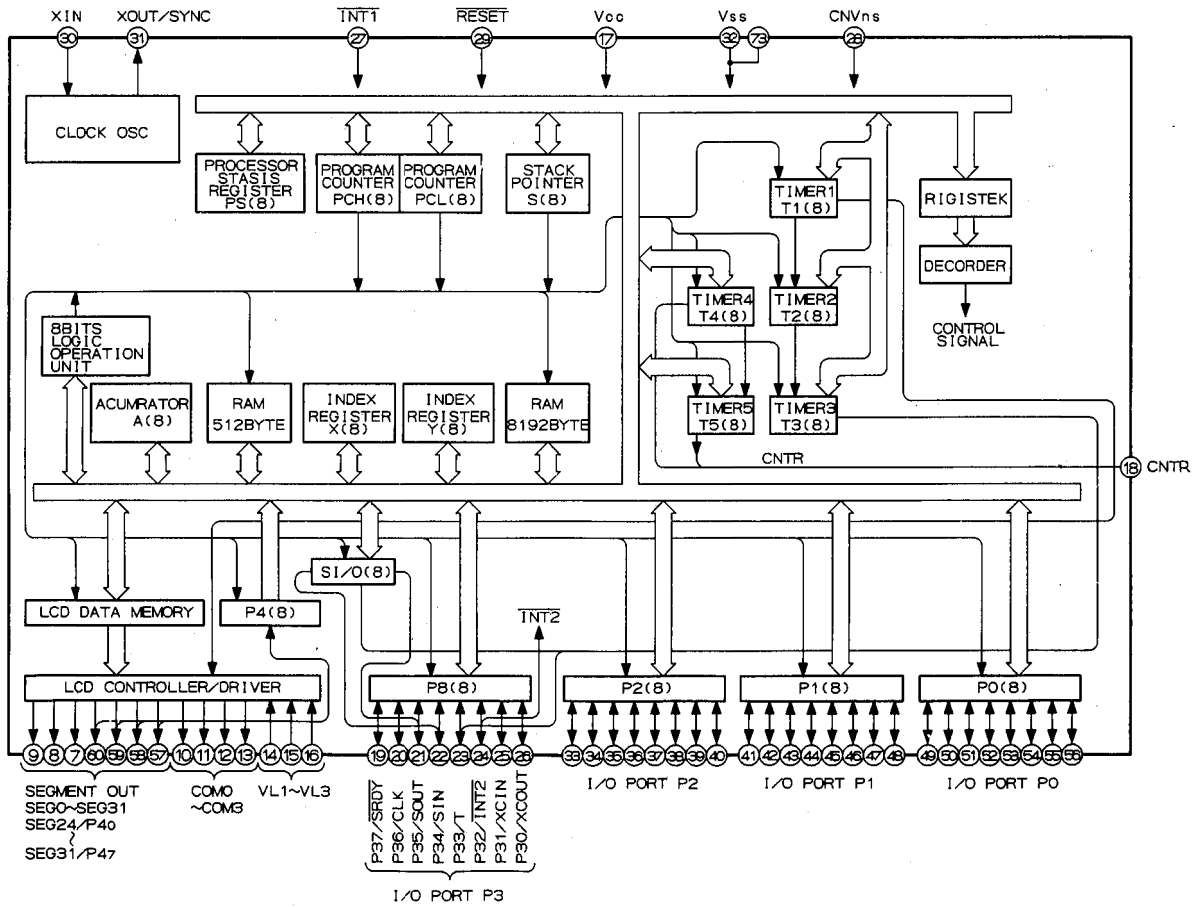
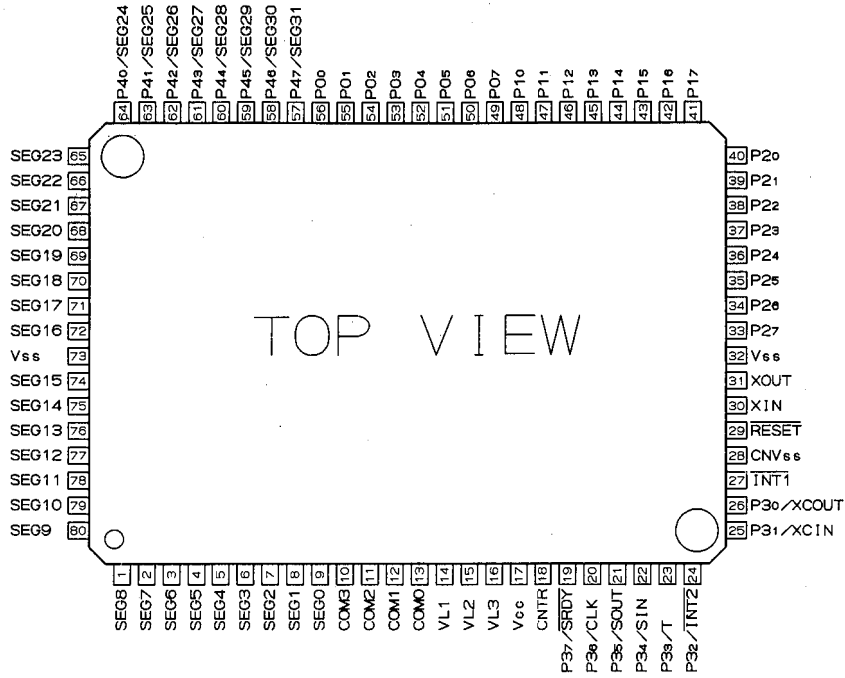
CC-5

IC151 RH-iX1910AFZZ

Pin No.	Terminal Name	Input/Output	Active	Default setting	Function
1-10	S12-S21	Output	L/H	LCD OFF state	LCD segment output
11*	S22	Output	L/H	LCD OFF state	LCD segment output
12*	S23	-	-	-	Not used.
13*	S24	Output	L/H	L	TIM 1/2 output
14*	S25	Output	DISP output	L	Timer time-set display: H
15*	S26	-	-	-	Not used.
16*	S27	-	-	-	Not used.
17	S28	Output	H	L	TIM BY output
18*	S29	Output	H	L	TIM output
19*	S30	Output	H	L	TIM-SLP output
20*	S31	-	-	-	Not used.
21-24	COM0-COM3	Output	L/H	LCD OFF state	LCD common output
25	BIAS	Output	-	-	Externally attached attenuation terminal
26-28	VLC0-VLC2	Output	-	-	LCD driver power
29*	P40	Output	L/H	L	M/S 1 output
30*	P41	Output	L/H	L	M/S 2 output
31	P42	Output	L/H	L	STEREO/MONO switching output
32	P43	Output	L/H	L	Beat cancel output
33	VSS	-	-	-	Earth
34	P50	Input	L	-	STEREO IND input
35	P51	Input	L	-	TUNING IND input
36,37	P52,P53	Input	H	-	Key strobe input
38-41	P00-P03	Input	H	-	Key strobe input
42	P10	Input	L	-	Remote control input
43	P11	Input	L	-	Backup mode input
44	P12	Input	L/H	-	POWER ON/OFF input
45	P13	Input	L/H	-	BUSY input/TIM-SLP input
46	P20	Output	H	L	Key strobe output
47	P21	Output	H	L	Key strobe output
48	P22	Output	H	L	Key strobe output
49	P23	Output	H	L	Key strobe output
50	P30	Output	H	L	Key strobe output
51	P31	Output	L/H	L	Serial DATA output/TIM-SLP output
52	P32	Output	L/H	L	Serial CL output/TIM output
53*	P33	Output	H	L	TIM BY output
54	VDD	-	-	-	Power supply
55	XT1	-	-	-	Subsystem clock (for clock)
56*	XT2	-	-	-	Subsystem clock (for clock)
57	NC	-	-	-	-
58,59	X1,X2	-	-	-	Main system clock
60	P60	Input	L/H	-	System stop input
61*	P61	Input	L	-	BIL IND input
62	P62	Input	L	-	AUTO STOP input
63	P63	Output	H	L	MUTE output
64	P70	Output	L/H	L	PLL CL output
65	P71	Output	L/H	L	PLL DATA output
66	P72	Output	L/H	L	PLL CE output
67	P73	Output	H	L	STRO output
68	RESET	Input	-	-	Reset input
69-80	S0-S11	Output	L/H	LCD OFF state	LCD segment output

In this unit, the terminal with asterisked mark (*) is (open) terminal which is not connected to the outside.

IC152 : M50932
(RX-IX1806AFZZ)



CC-5

IC152 RH-iX1806AFZZ

Pin No.	Terminal Name	Signal Name	Input/Output	Function
1	SEG8	S6	Output	LCD segment output
2*	SEG7	-	Output	LCD segment output
3	SEG6	S2	Output	LCD segment output
4	SEG5	S5	Output	LCD segment output
5	SEG4	S4	Output	LCD segment output
6*	SEG3	-	Output	LCD segment output
7	SEG2	S3	Output	LCD segment output
8	SEG1	S1	Output	LCD segment output
9	SEG0	S20	Output	LCD segment output
10	COM3	COM0	Output	LCD common output
11	COM2	COM1	Output	LCD common output
12	COM1	COM2	Output	LCD common output
13	COM0	COM3	Output	LCD common output
14	VL1	VL1	Input	LCD power input
15	VL2	VL2	Input	LCD power input
16	VL3	VL3	Input	LCD power input
17	VCC	-	-	Power supply
18*	CNTR	-	Input/Output	Counter input/output
19	P37/SRDY	R/W	Output	Data line switching signal
20	P36/CLK	SCK	Output	Serial clock
21	P35/SOUT	DIN	Output	Command data output
22	P34/SIN	DOUT	Input	Data input
23	P33/T	WQ	Input	Q code data read signal
24	P32/INT2	T.START	Output	Cassette tape synchronous output
25	P31/XCIN	SYNC RDY	Input	Cassette tape synchronous input
26	P30/XCPUT	REVERSE	Input	Cassette tape reverse input
27	INT1	REMOCON	Input	Remote control input
28	CNVSS	-	-	Earth
29	RESET	-	Input	Reset input
30	XIN	-	Input	Clock input
31	XOUT	-	Output	Clock output
32	VSS	-	-	Earth
33	P27	TIMER IN	Input	Timer input
34	P26	CD FUN	Input	Input to switch to CD
35	P25	10KEY	Input	Key input
36	P24	MUTE	Output	Mute output
37	P23	Laser ON/OFF(LA NF)	Output	Laser ON/OFF control
38	P22	PUIN SW	Input	L: When the optical pickup is at the innermost position
39	P21	CLOSE SW	Input	Tray position detection switch input
40	P20	OPEN SW	Input	Tray position detection switch input
41	P17	CLOSE	Output	Tray close output
42	P16	OPEN	Output	Tray open output
43*	P15	-	Output	Key output
44*	P14	-	Output	Key output

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

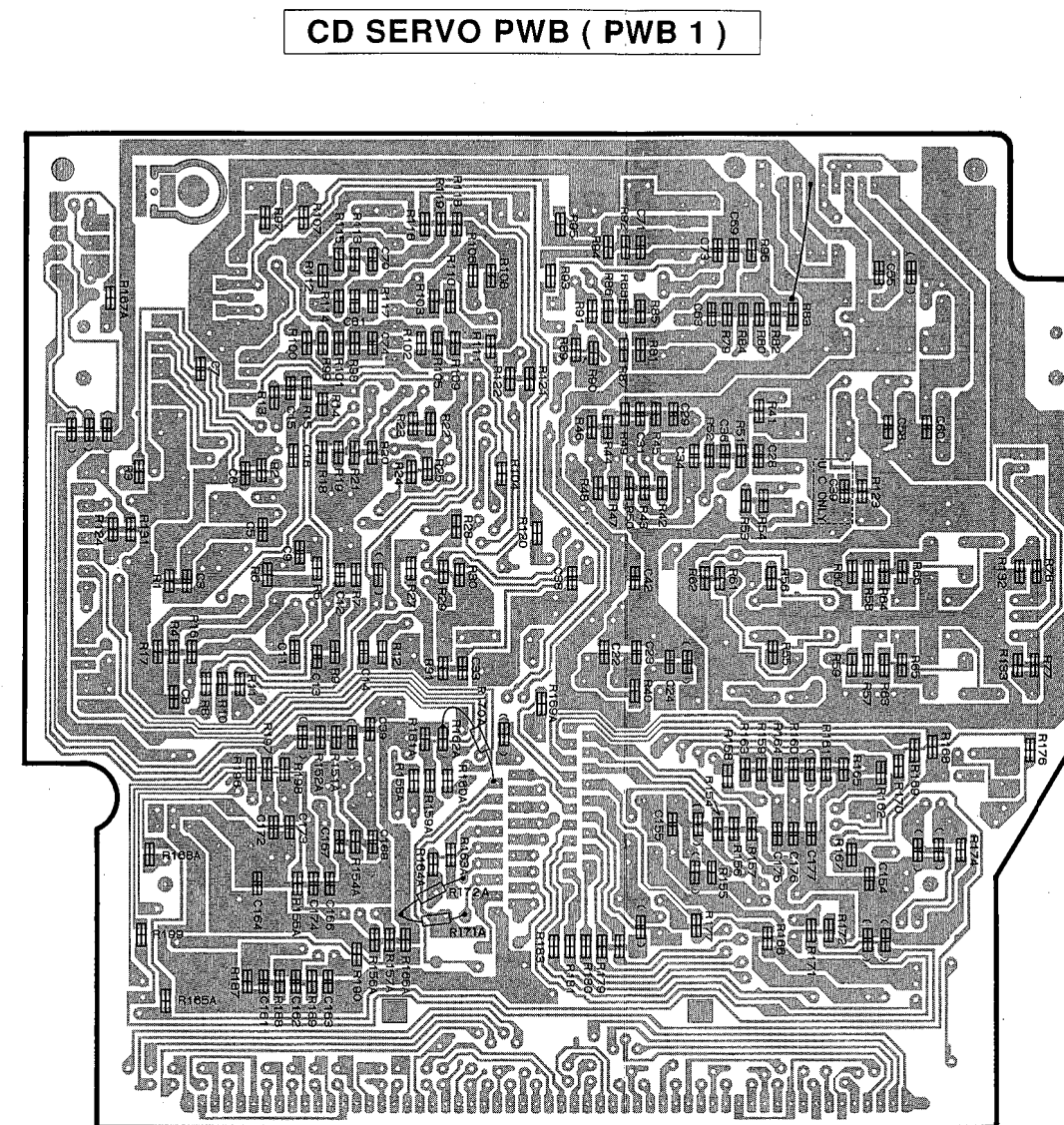
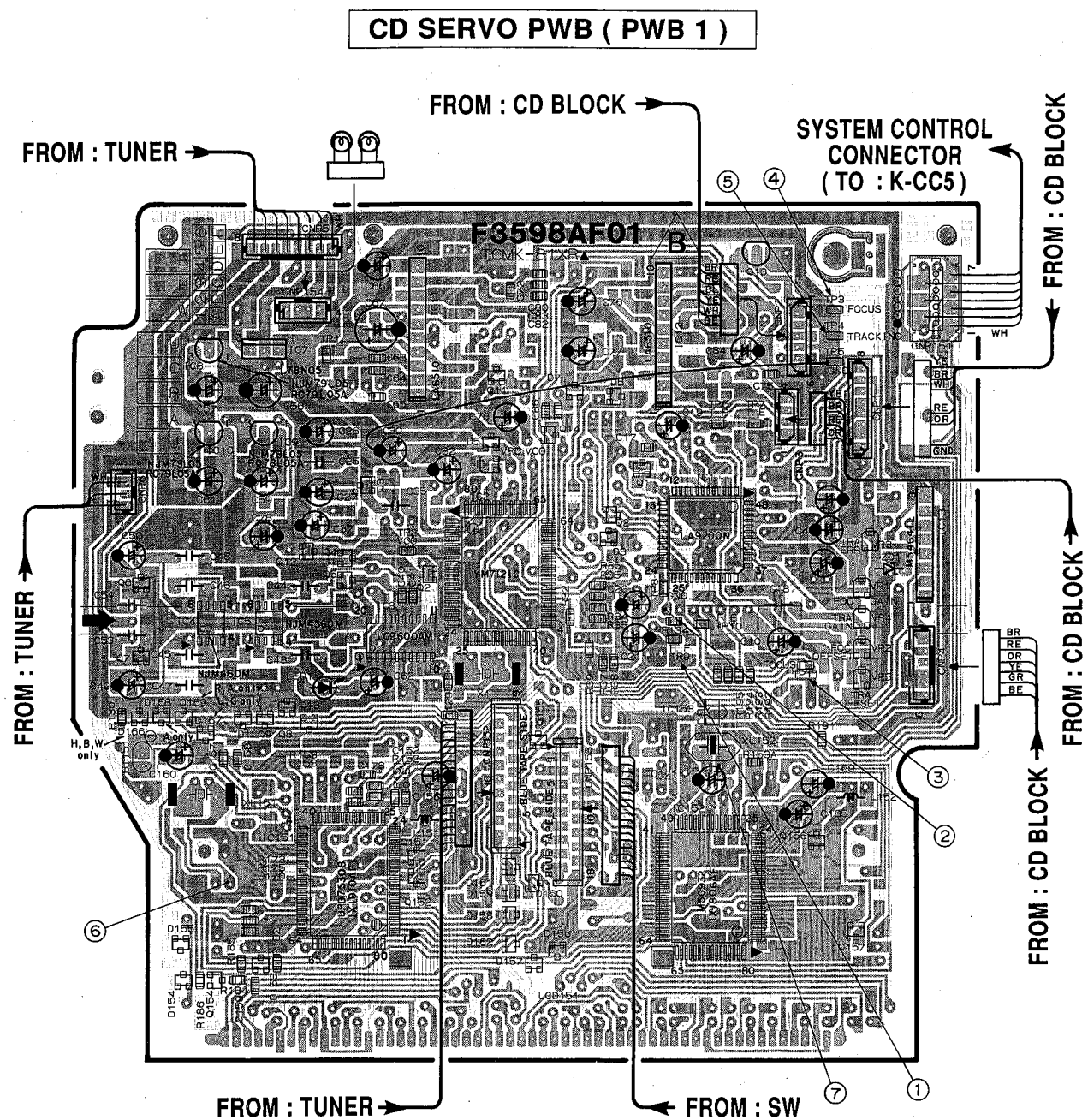
IC152 RH-IX1806AFZZ

Pin No.	Terminal Name	Signal Name	Input/Output	Function
45	P13	-	Output	Key output
46*	P12	-	Output	Key output
47	P11	-	Output	Key output
48	P10	-	Output	Key output
49	P07	-	Input	Key input
50	P06	-	Input	Key input
51	P05	-	Input	Key input
52	P04	-	Input	Key input
53	P03	-	Input	Key input
54	P02	-	Input	Key input
55*	P01	Loading switching	Input	Loading switching
56*	P00	Operating mode switching	Input	Operating mode switching
57*	SEG31	-	Output	Segment output
58*	SEG30	-	Output	Segment output
59	SEG29	S22	Output	Segment output
60*	SEG28	-	Output	Segment output
61	SEG27	S19	Output	Segment output
62	SEG26	S18	Output	Segment output
63*	SEG25	-	Output	Segment output
64	SEG24	S21	Output	Segment output
65	SEG23	S17	Output	LCD segment output
66	SEG22	S16	Output	LCD segment output
67	SEG21	S15	Output	LCD segment output
68	SEG20	S14	Output	LCD segment output
69	SEG19	S23	Output	LCD segment output
70	SEG18	S24	Output	LCD segment output
71	SEG17	S13	Output	LCD segment output
72	SEG16	S12	Output	LCD segment output
73	VSS	-	-	Earth
74	SEG15	S11	Output	LCD segment output
75	SEG14	S10	Output	LCD segment output
76	SEG13	-	Output	LCD segment output
77	SEG12	S0	Output	LCD segment output
78	SEG11	S9	Output	LCD segment output
79	SEG10	S8	Output	LCD segment output
80	SEG9	S7	Output	LCD segment output

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

■ PRINTED CIRCUIT BOARD

① to ⑦ : WAVEFORM OF TEST POINT (See page 52 and 53)



● Semiconductor Locations

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
Q 1	C3	Q 13	B3	D 6	C2	D166	A3	IC 10	B2
Q 2	B3	Q 14	C2	D 7	C2	D167	B3	IC 11	B2
Q 3	B3	Q151	B4	D153	B4	D168	A3	IC 12	C2
Q 4	B3	Q152	B4	D154	A4	D169	A3	IC 13	D3
Q 5	B3	Q154	B4	D155	A4	IC 1	C3	IC151	B4
Q 6	A3	Q155	C3	D156	C4	IC 2	B3	IC152	C4
Q 7	A3	Q156	C4	D157	C4	IC 3	B3	IC153	C3
Q 8	B3	Q157	D4	D158	C4	IC 4	B3	ZD 1	D3
Q 9	B3	D 1	B3	D159	C4	IC 5	B3		
Q 10	C2	D 2	C3	D160	C4	IC 7	B2		
Q 11	B2	D 3	C3	D161	C4	IC 8	B2		
Q 12	B3	D 5	B2	D162	C4	IC 9	B2		

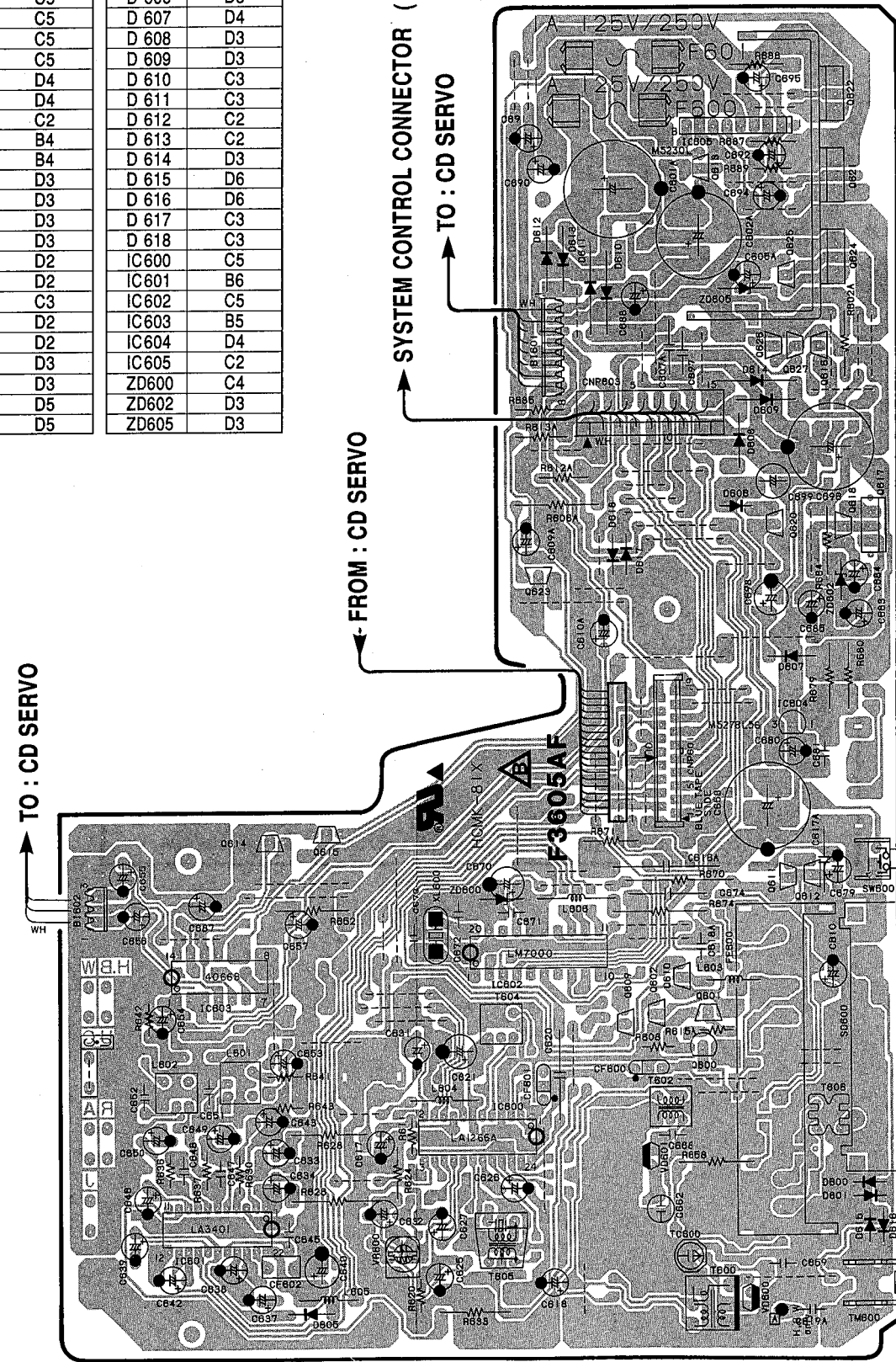
PRINTED CIRCUIT BOARD

Semiconductor Locations
Tuner PWB (U, C models)

Ref. No.	Location	Ref. No.	Location
Q 600	C5	D 605	B6
Q 601	C5	D 606	D3
Q 602	C5	D 607	D4
Q 609	C5	D 608	D3
Q 610	C5	D 609	D3
Q 611	D4	D 610	C3
Q 612	D4	D 611	C3
Q 613	C2	D 612	C2
Q 614	B4	D 613	C2
Q 615	B4	D 614	D3
Q 616	D3	D 615	D6
Q 617	D3	D 616	D6
Q 618	D3	D 617	C3
Q 620	D3	D 618	C3
Q 621	D2	IC600	C5
Q 622	D2	IC601	B6
Q 623	C3	IC602	C5
Q 624	D2	IC603	B5
Q 625	D2	IC604	D4
Q 626	D3	IC605	C2
Q 627	D3	ZD600	C4
D 600	D5	ZD602	D3
D 601	D5	ZD605	D3

U, C models

TUNER PWB (PWB 601)

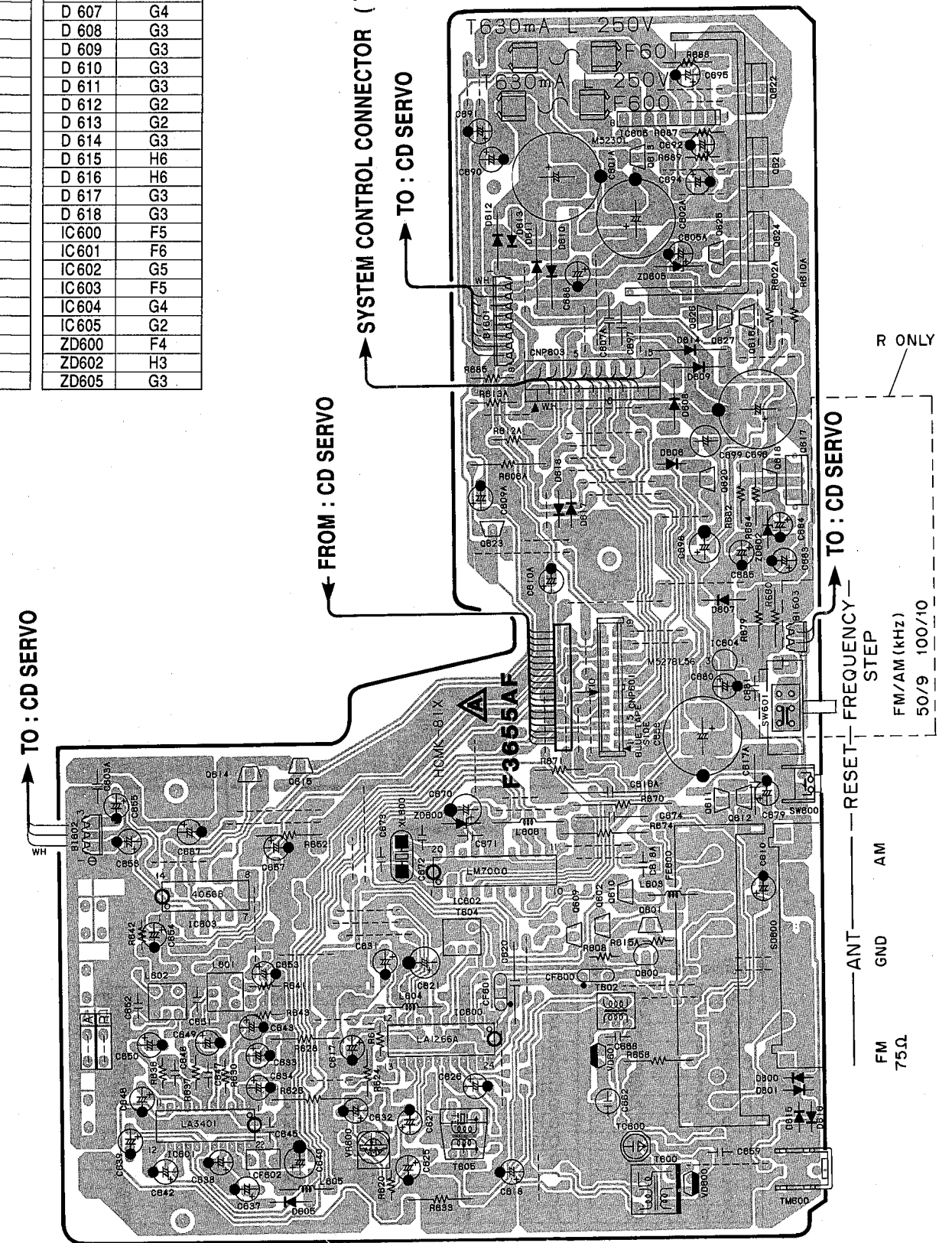


Semiconductor Locations
Tuner PWB (R, A models)

Ref. No.	Location	Ref. No.	Location
Q 600	G5	D 605	F6
Q 601	G5	D 606	G3
Q 602	G5	D 607	G4
Q 609	G5	D 608	G3
Q 610	G5	D 609	G3
Q 611	G4	D 610	G3
Q 612	G4	D 611	G3
Q 613	G2	D 612	G2
Q 614	F4	D 613	G2
Q 615	F4	D 614	G3
Q 616	G3	D 615	H6
Q 617	H3	D 616	H6
Q 618	H3	D 617	G3
Q 620	G3	D 618	G3
Q 621	H2	IC600	F5
Q 622	H2	IC601	F6
Q 623	G3	IC602	G5
Q 624	H2	IC603	F5
Q 625	G3	IC604	G4
Q 626	H3	IC605	G2
Q 627	H3	ZD600	F4
D 600	H5	ZD602	H3
D 601	H5	ZD605	G3

R, A models

TUNER PWB (PWB 601)



PRINTED CIRCUIT BOARD

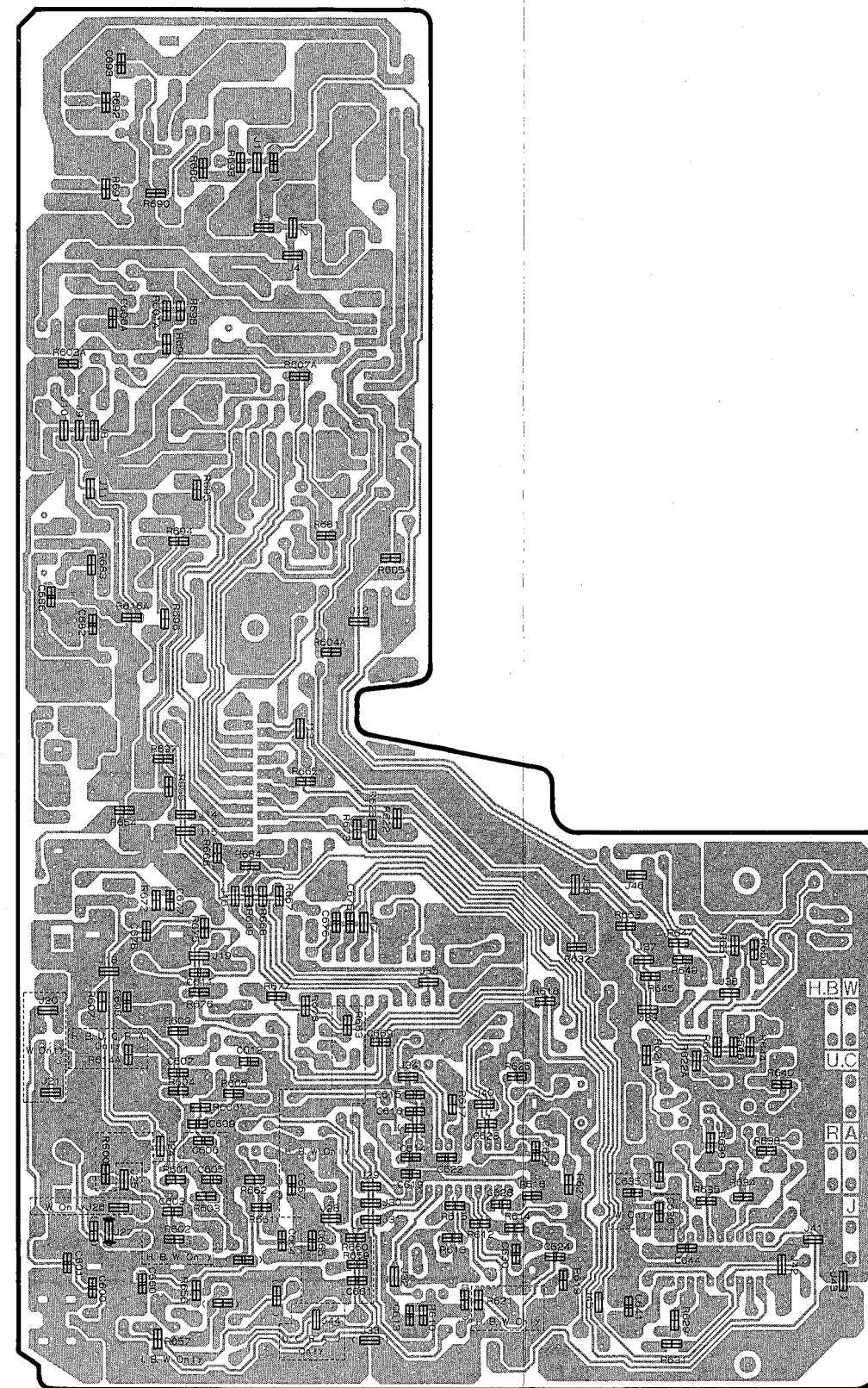
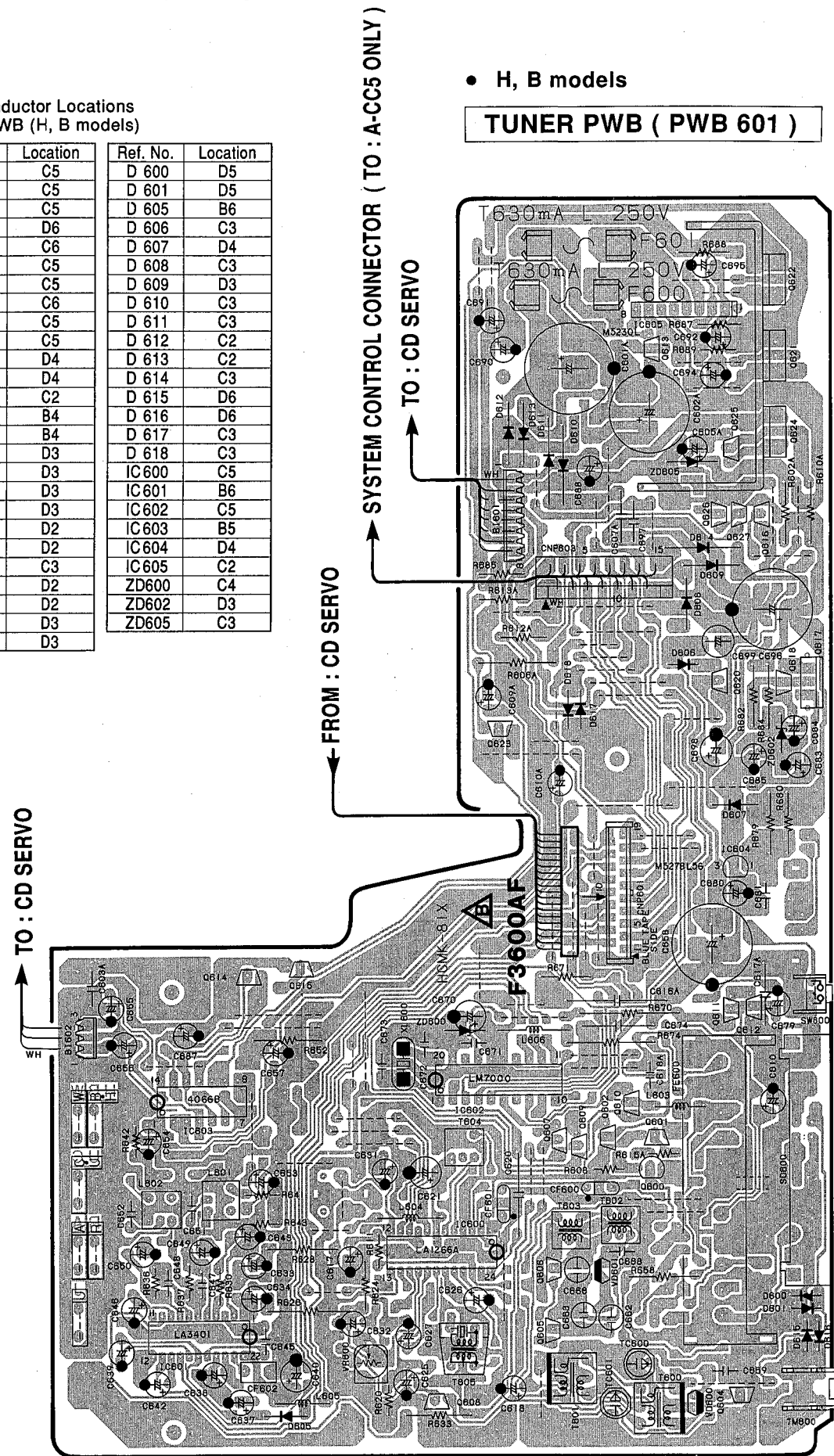
Semiconductor Locations Tuner PWB (H, B models)

Ref. No.	Location	Ref. No.	Location
Q 600	C5	D 600	D5
Q 601	C5	D 601	D5
Q 602	C5	D 605	B6
Q 604	D6	D 606	C3
Q 605	C6	D 607	D4
Q 606	C5	D 608	C3
Q 607	C5	D 609	D3
Q 608	C6	D 610	C3
Q 609	C5	D 611	C3
Q 610	C5	D 612	C2
Q 611	D4	D 613	C2
Q 612	D4	D 614	C3
Q 613	C2	D 615	D6
Q 614	B4	D 616	D6
Q 615	B4	D 617	C3
Q 616	D3	D 618	C3
Q 617	D3	IC600	C5
Q 618	D3	IC601	B6
Q 620	D3	IC602	C5
Q 621	D2	IC603	B5
Q 622	D2	IC604	D4
Q 623	C3	IC605	C2
Q 624	D2	ZD600	C4
Q 625	D2	ZD602	D3
Q 626	D3	ZD605	C3
Q 627	D3		

• H, B models

TUNER PWB (PWB 601)

TUNER PWB (PWB 601)



ANT — RESET —
 MW LW
 FM 75Ω
 GND

1
2
3
4
5
6

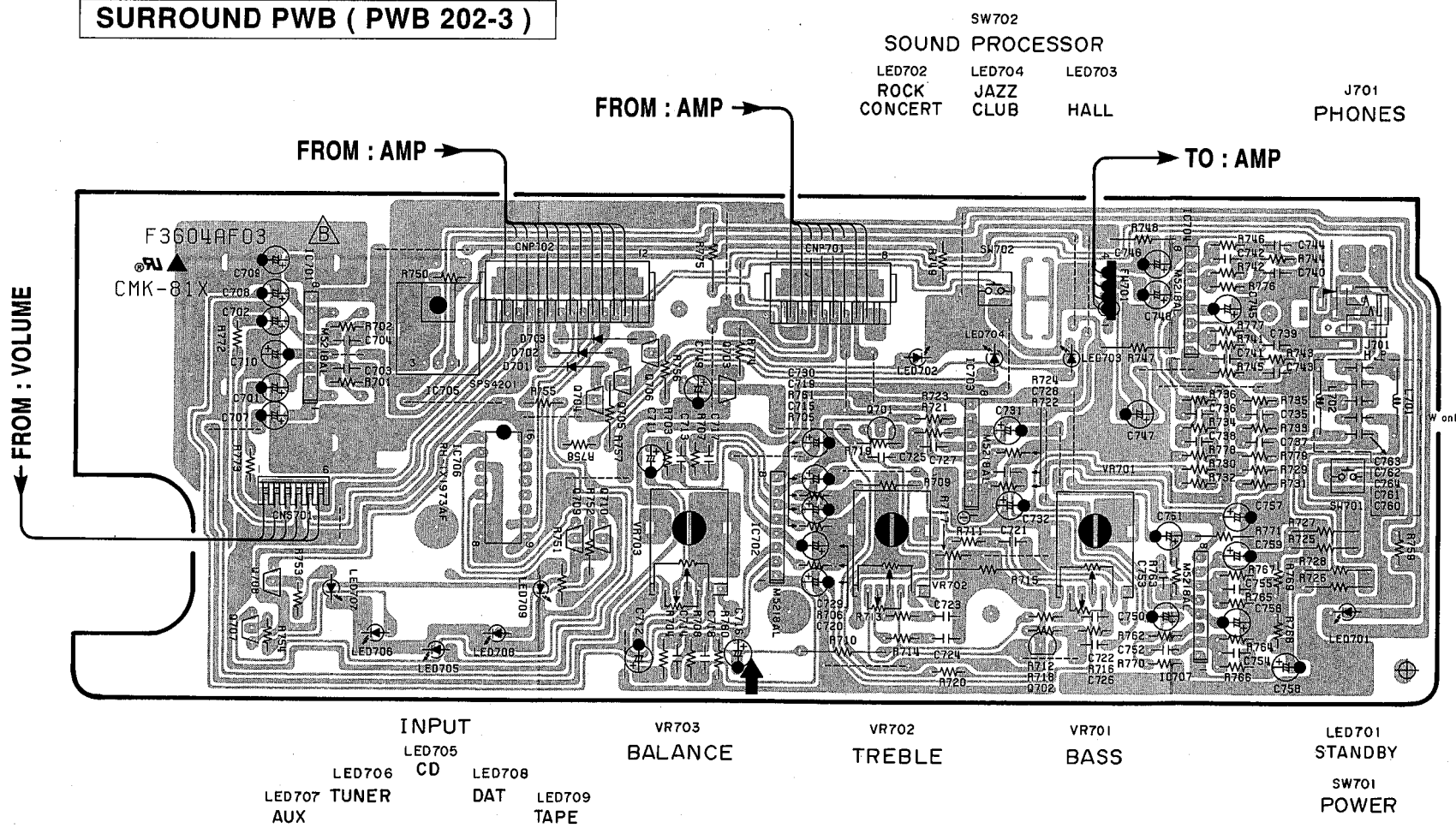
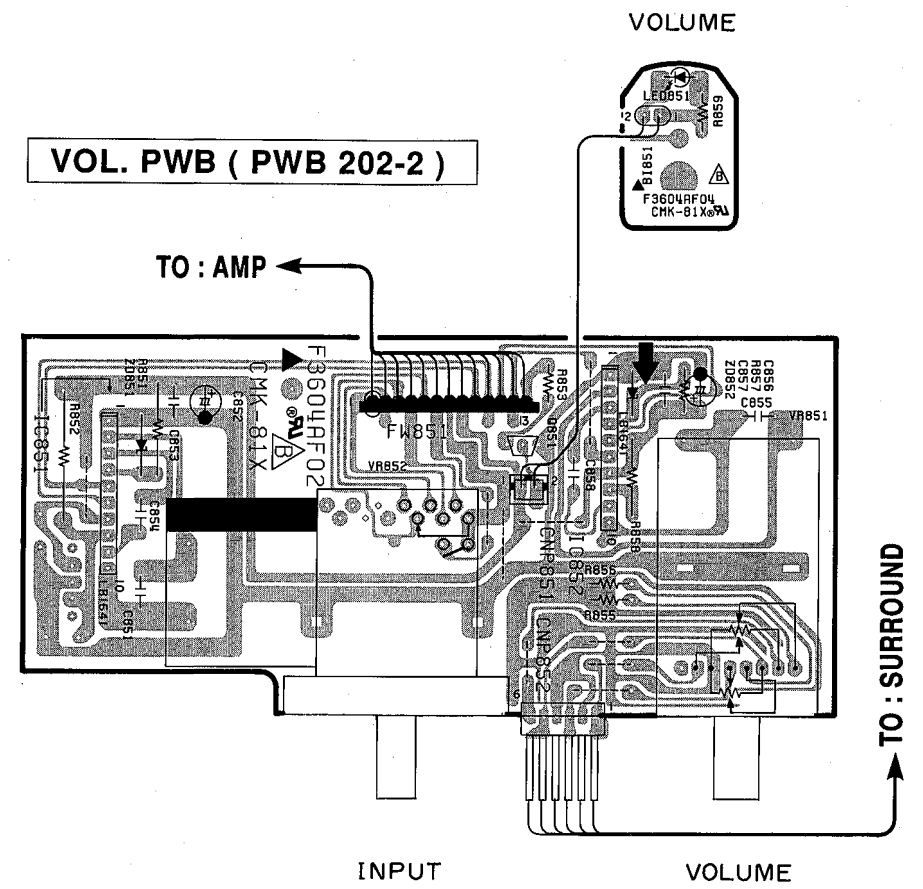
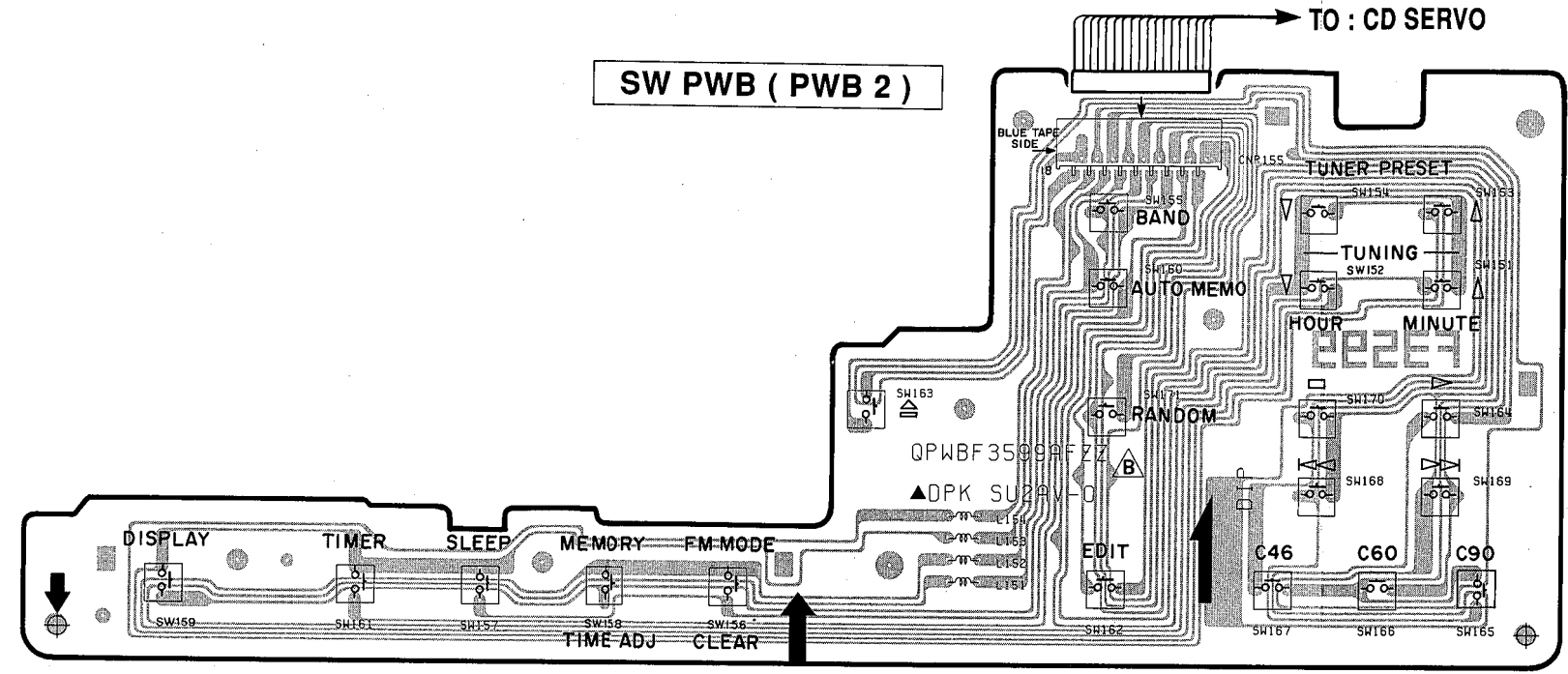
PRINTED CIRCUIT BOARD

VOL. LED PWB (PWB 202-4)

SW PWB (PWB 2)

VOL. PWB (PWB 202-2)

SURROUND PWB (PWB 202-3)



Semiconductor Locations

Ref. No.	Location
Q 701	D5
Q 702	D5
Q 703	C4
Q 704	C5
Q 705	C4
Q 706	C4
Q 707	B5
Q 708	B5
Q 709	C5
Q 710	C5
D 701	C4
D 702	C4
D 703	C4
IC701	B4
IC702	C5
IC703	D5
IC704	E4
IC705	B4
IC706	B5
IC707	E5

PRINTED CIRCUIT BOARD

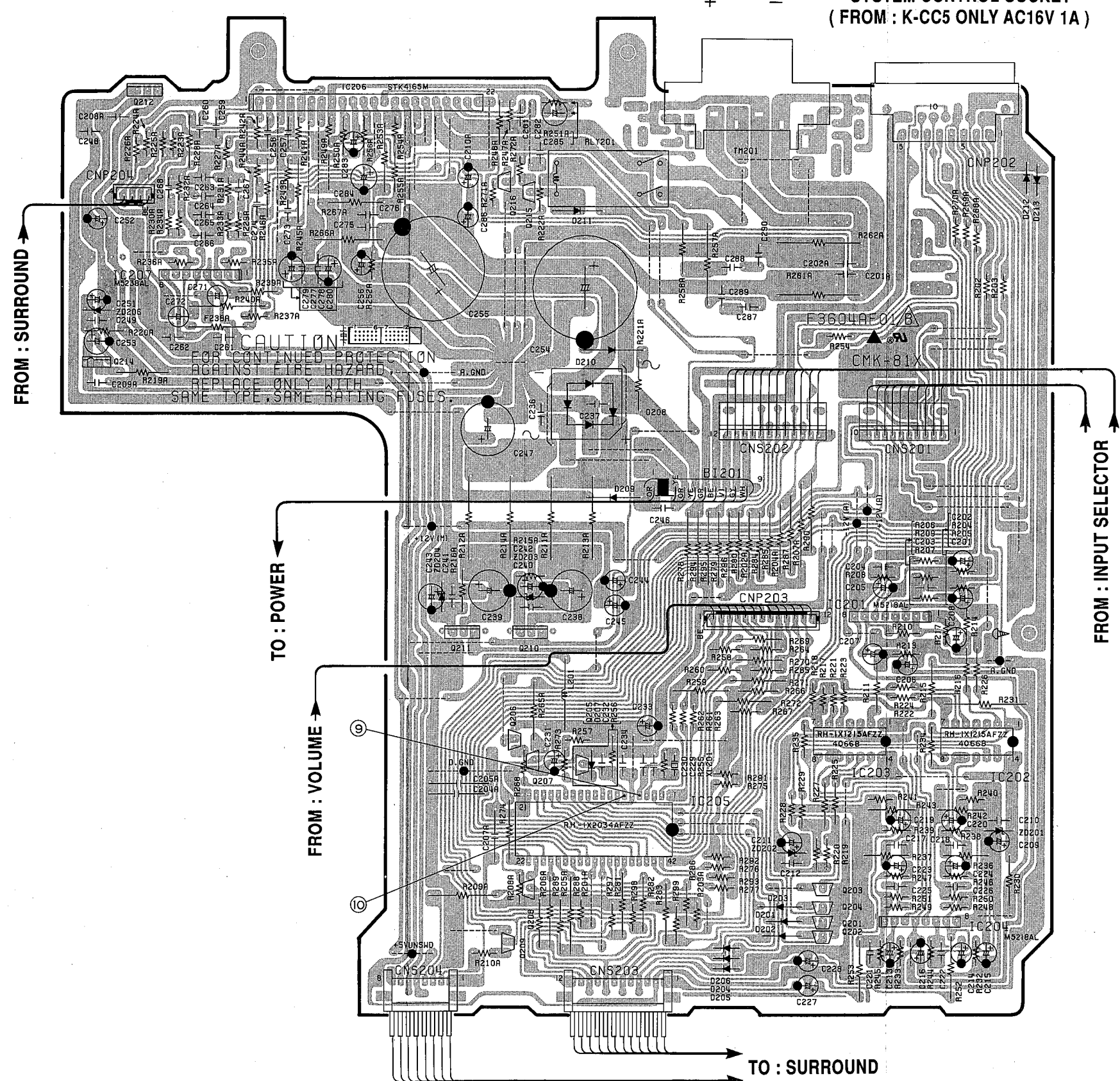
● Except W model

AMP PWB (PWB 202-1)

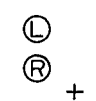
⑨ to ⑩ : WAVEFORM OF TEST POINT (See page 53)

● Semiconductor Locations

Ref. No.	Location
Q 201	F5
Q 202	F5
Q 203	F5
Q 204	F5
Q 205	E4
Q 206	E4
Q 207	E4
Q 208	E5
Q 209	E5
Q 210	E4
Q 211	D4
Q 212	C2
Q 214	C3
Q 215	E2
Q 216	E2
D 201	F5
D 202	F5
D 203	F5
D 204	F5
D 205	F5
D 206	F5
D 207	E4
D 208	E3
D 209	E3
D 210	E3
D 211	E2
D 212	G2
D 213	G2
IC201	F4
IC202	G4
IC203	F4
IC204	F5
IC205	E5
IC206	D2
IC207	C2
ZD201	G5
ZD202	F5
ZD203	E4
ZD204	D4
ZD206	C3



— SPEAKERS —



SYSTEM CONTROL SOCKET
(FROM : K-CC5 ONLY AC16V 1A)

FROM : SURROUND

TO : POWER

FROM : VOLUME

FROM : INPUT SELECTOR

TO : SURROUND

CC-5

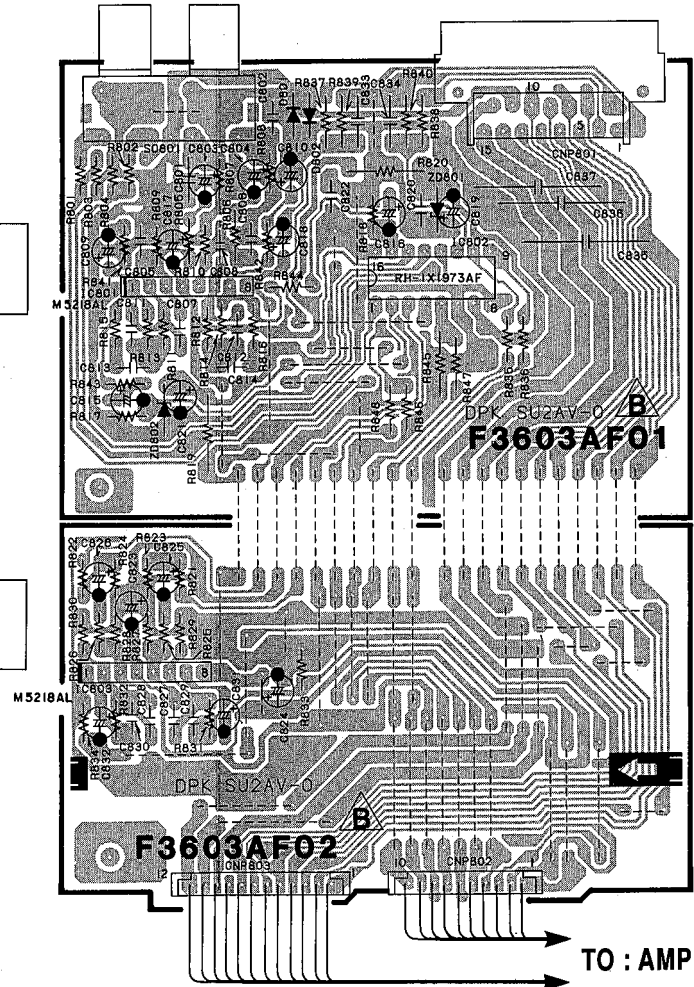
■ PRINTED CIRCUIT BOARD

• H, A, B models

AUX PHONO
 Ⓛ GND
 Ⓜ SYSTEM CONTROL SOCKET
 (FROM : TCD-CC5 ONLY AC16V 1AX2)

INPUT SELECTOR PWB
 (PWB 201-1)

INPUT SELECTOR PWB
 (PWB 201-2)



• Semiconductor Locations

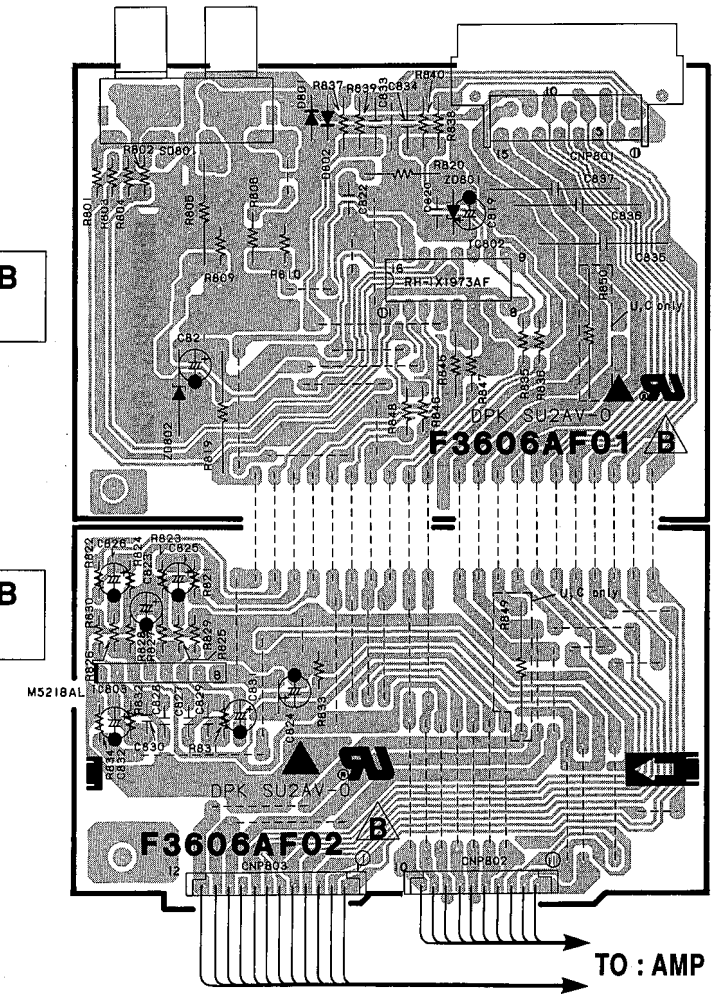
Ref. No.	Location
D 801	C2
D 802	C2
IC801	B2
IC802	C2
IC803	B3
ZD801	C2
ZD802	B3

• U, C, R models

AUX DAT
 Ⓛ
 Ⓜ SYSTEM CONTROL SOCKET
 (FROM : TCD-CC5 ONLY AC16V 1AX2)

INPUT SELECTOR PWB
 (PWB 201-1)

INPUT SELECTOR PWB
 (PWB 201-2)



• Semiconductor Locations

Ref. No.	Location
D 801	F2
D 802	F2
IC802	G2
IC803	F4
ZD801	G2
ZD802	F3

PRINTED CIRCUIT BOARD

• U, C models

• H, A, B models

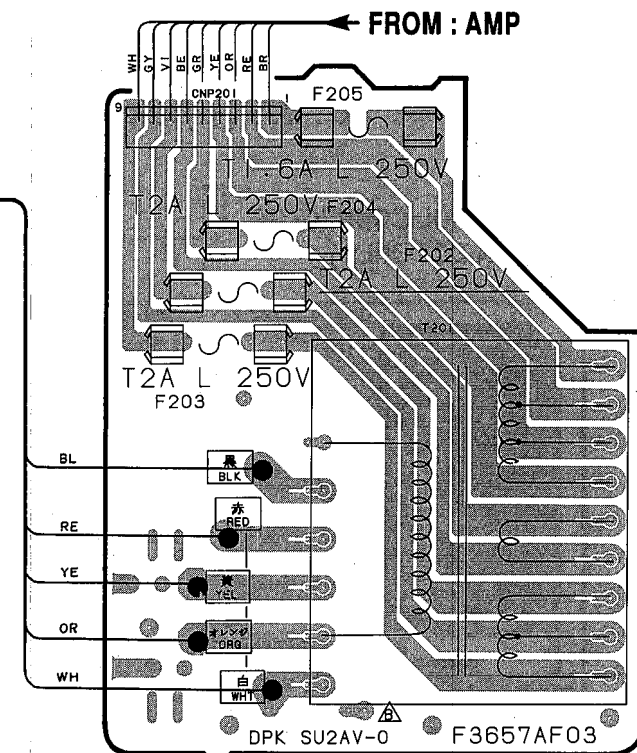
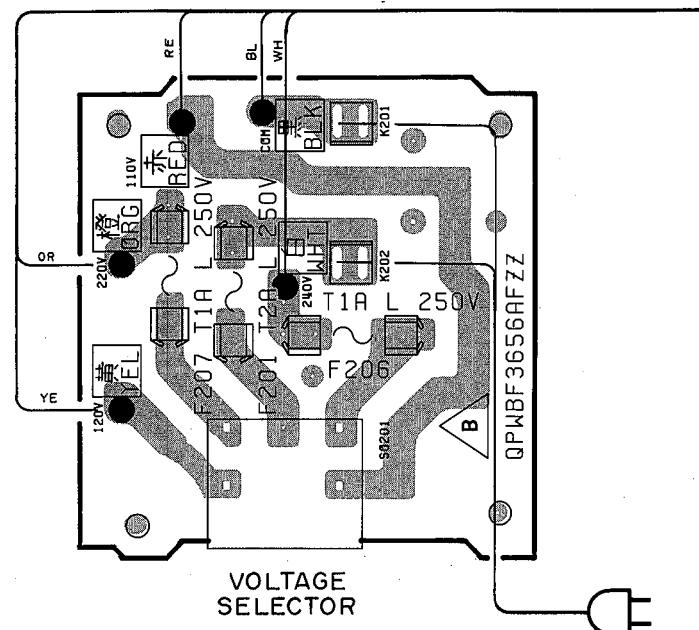
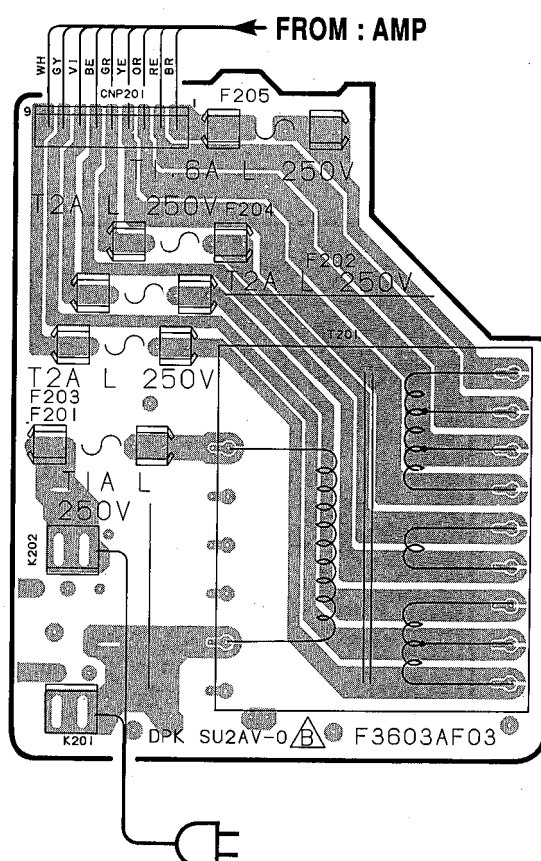
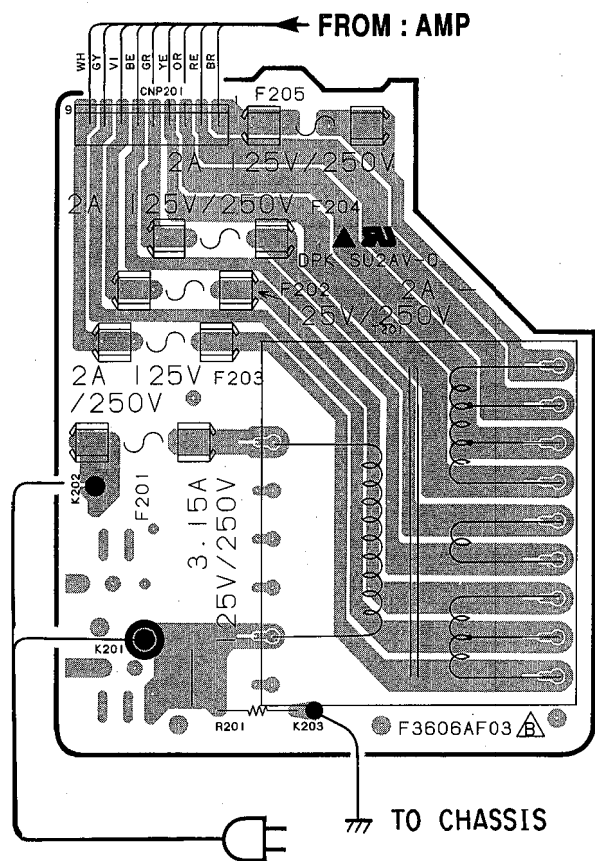
• R model

TRANS PWB (PWB 201-3)

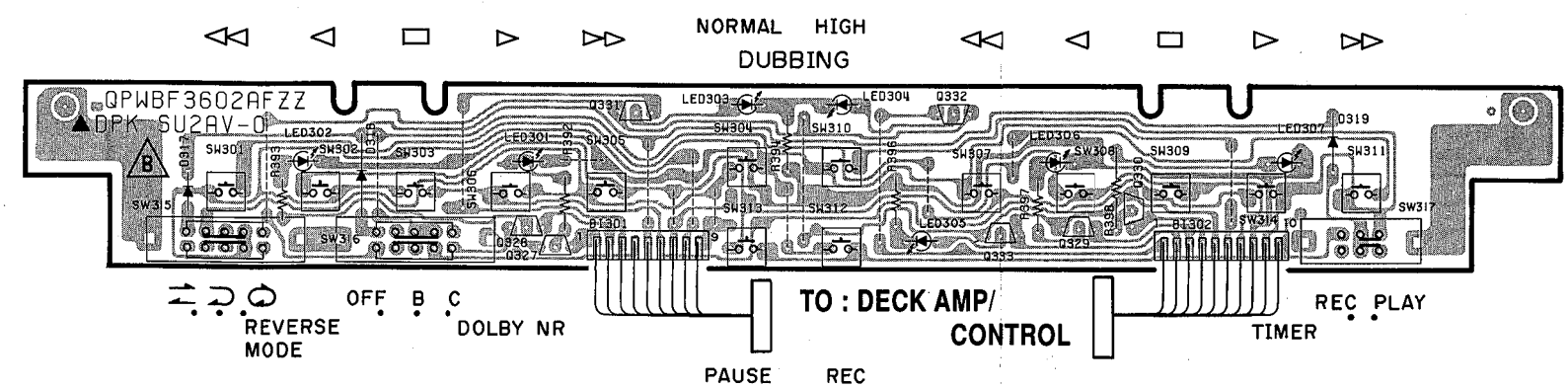
TRANS PWB (PWB 201-3)

VOLTAGE SELECTOR PWB (PWB 203)

TRANS PWB (PWB 201-3)



DECK KEY PWB (PWB 302)



1
2
3
4
5
6

CC-5

PRINTED CIRCUIT BOARD

Ⓢ : WAVEFORM OF TEST POINT (See page 53)

Note : When μ -COM (IC301) has been replaced, make sure to disconnect the SUB P. C. B. and the lead wire.

● Semiconductor Locations

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
Q 301	D4	Q 315	D3	Q 401	C5	Q 442	C4	Q 471	B4	D 312	B3	D 471	B3
Q 302	D4	Q 316	D3	Q 402	C4	Q 443	D4	Q 472	A4	D 313	B3	D 472	B3
Q 303	D4	Q 317	D3	Q 403	B5	Q 444	D4	D 301	D4	D 314	B3	IC301	C3
Q 304	D4	Q 318	D3	Q 404	B4	Q 445	D4	D 302	D3	D 315	B3	IC401	C5
Q 305	D3	Q 319	D3	Q 405	B5	Q 446	D4	D 303	D4	D 316	C3	IC402	B5
Q 306	D3	Q 320	A2	Q 406	B5	Q 447	D4	D 304	D4	D 320	D2	IC471	B3
Q 307	D3	Q 321	A2	Q 407	C4	Q 448	D4	D 305	D4	D 321	D2	IC472	B4
Q 308	D4	Q 322	A3	Q 408	B5	Q 452	D5	D 306	D3	D 322	B3	ZD301	D3
Q 309	D3	Q 323	A3	Q 409	B4	Q 453	D5	D 307	D3	D 323	B3	ZD302	D2
Q 310	D3	Q 324	C3	Q 410	B4	Q 454	D4	D 308	D3	D 324	D4	ZD303	D3
Q 311	D3	Q 325	C4	Q 411	B5	Q 455	D4	D 309	D3	D 325	C4	ZD304	A2
Q 312	D3	Q 326	A3	Q 412	B5	Q 456	D4	D 310	D3	D 441	D4	ZD305	A3
Q 313	D3	Q 334	C4	Q 441	C4	Q 457	D4	D 311	B3	D 442	D4	ZD306	A3
Q 314	D3												

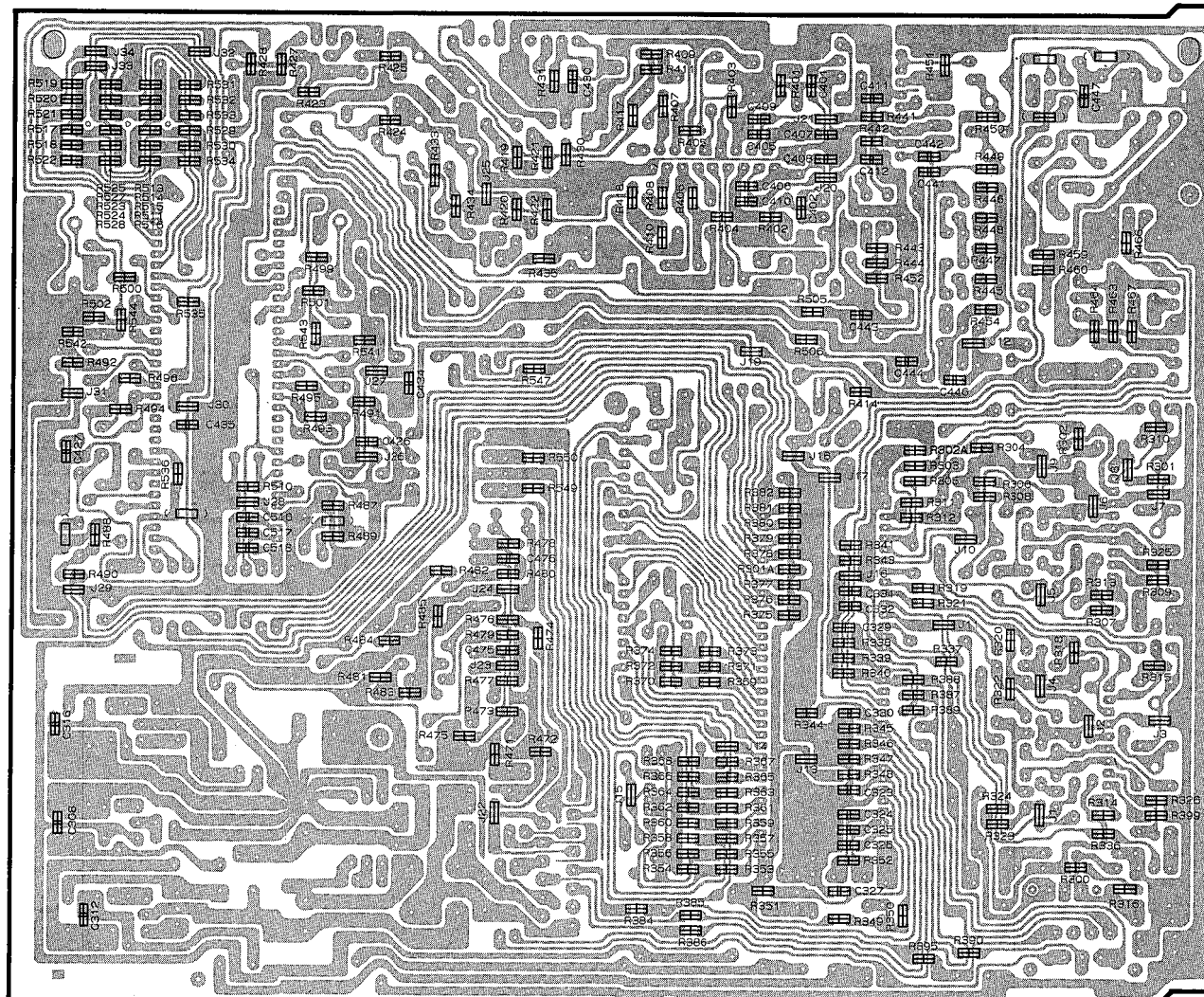
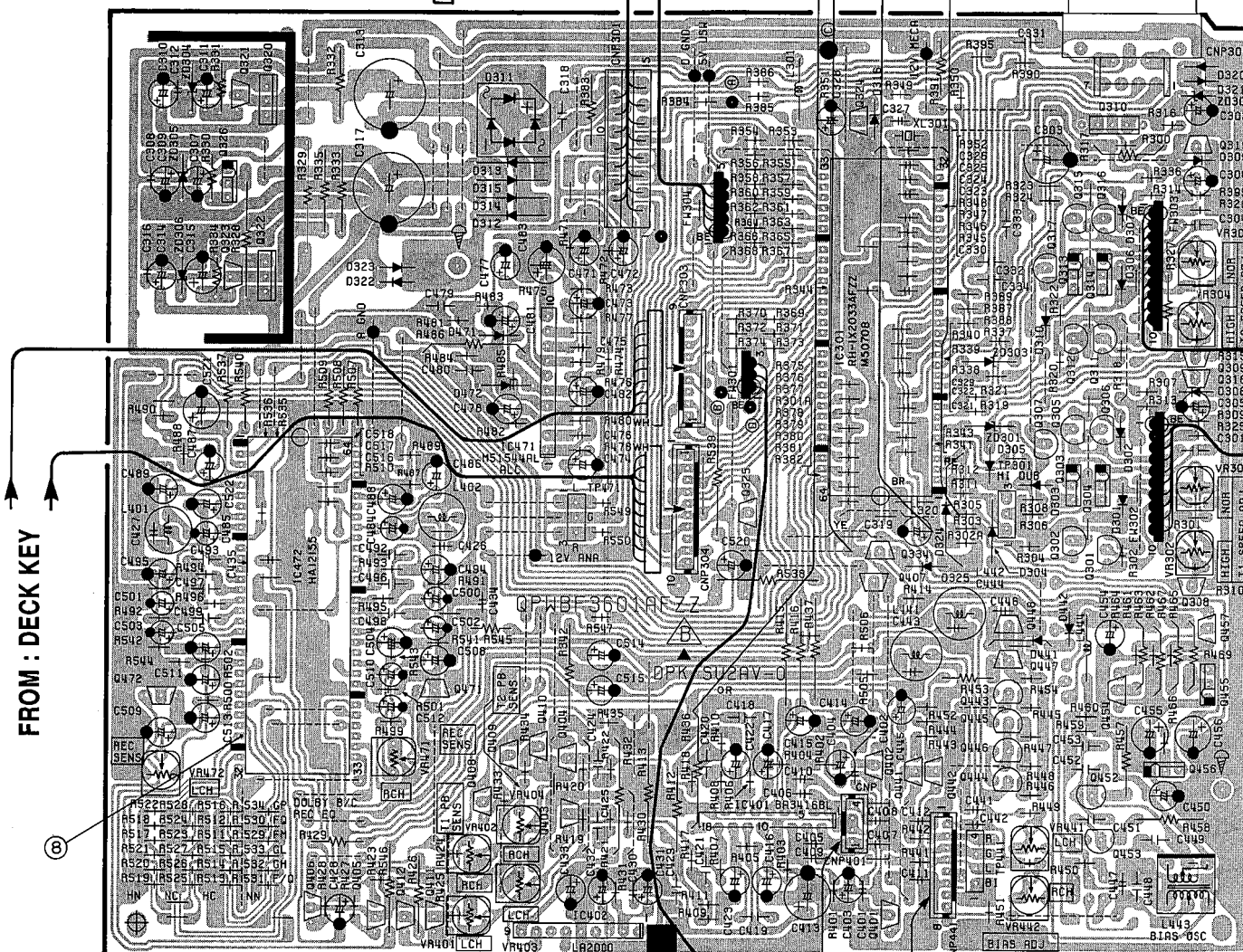
DECK AMP / CONTROL PWB
(PWB 301)

TO : TAPE (b) MECHA.

SYSTEM CONTROL CONNECTOR
(TO : A-CC5 ONLY)

SYSTEM CONTROL SOCKET
(FROM : TCD-CC5 ONLY)

DECK AMP / CONTROL PWB
(PWB 301)



FROM : DECK KEY

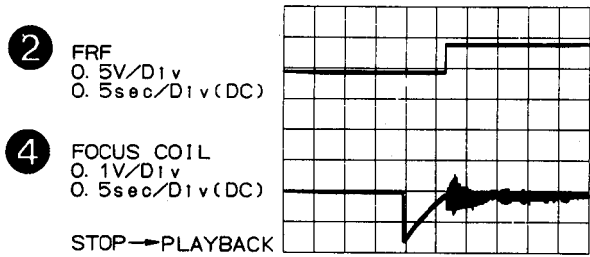
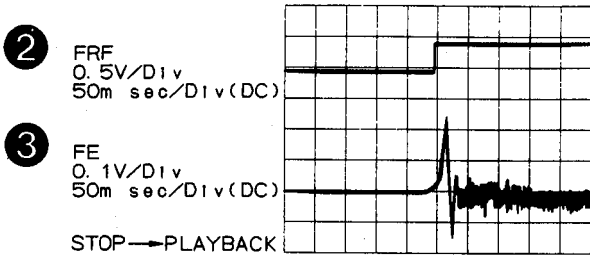
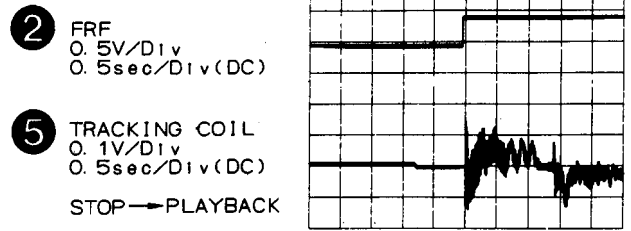
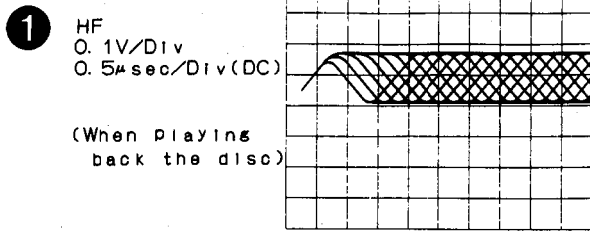
TO : TAPE (a) MECHA.
TO : TAPE (b) MECHA.

TO : TAPE (a) MECHA.

FROM : TAPE (b) HEAD

FROM : TAPE (a) HEAD

■ WAVEFORM OF CD CIRCUIT



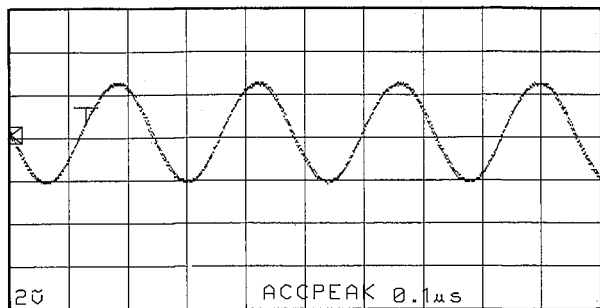
NOTE:

1. Use 10 : 1 probe to connect.
2. ② ③ ④ ⑤ A storage type oscilloscope was used for measurement.

■ WAVEFORM OF TEST POINT

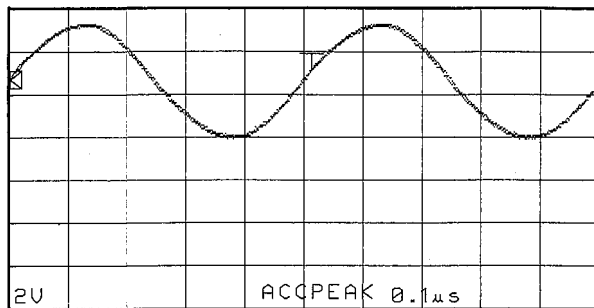
Point ⑥: (Pin 58 of IC151)

V : 2V/div H : 0.1 μ sec/div
 AC range 1 : 1 probe



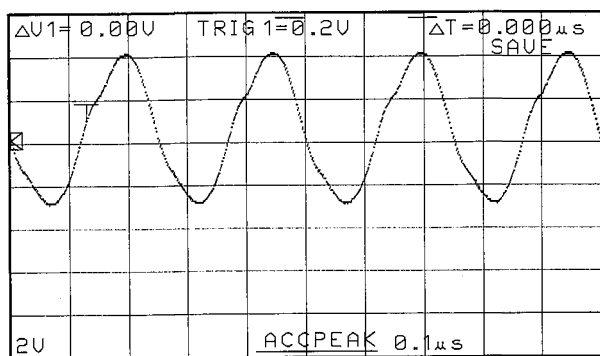
Point ⑨: (Pin 5 of IC205)

V : 2V/div H : 0.1 μ sec/div
 DC range 1 : 1 probe



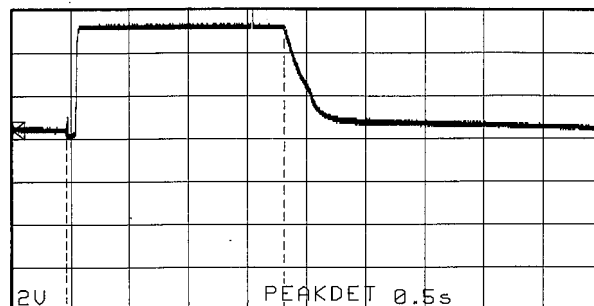
Point ⑦: (Pin 30 of IC152)

V : 2V/div H : 0.1 μ sec/div
 DC range 1 : 1 probe



Point ⑩: (Pin 7 of IC205)

V : 2V/div H : 0.5sec/div
 DC range 1 : 1 probe



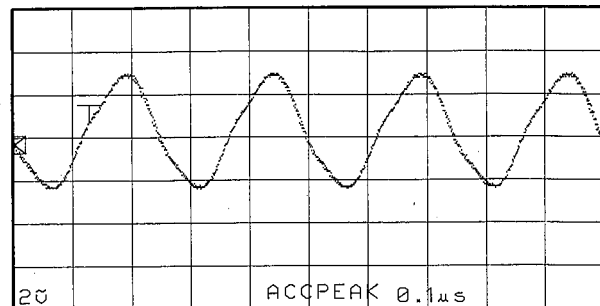
When the power cord is connected to AC outlet.

When the power cord is disconnected from AC outlet.

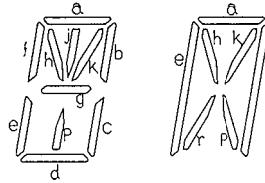
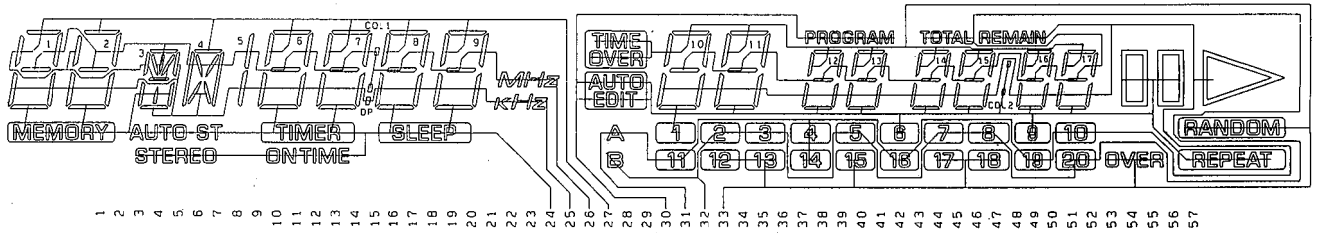
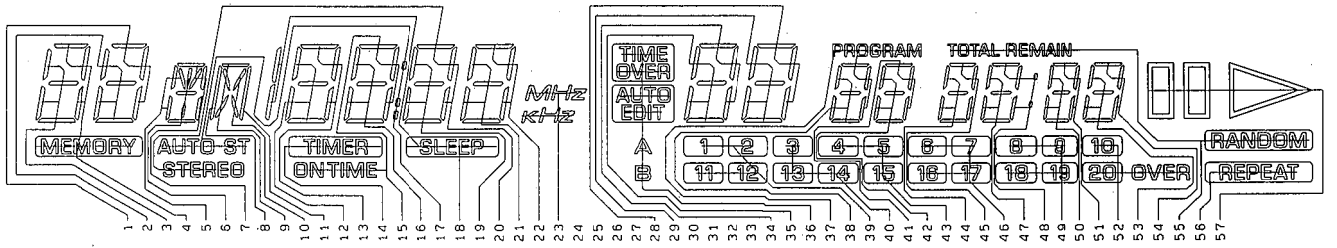
Note : When the power switch ON/OFF will produce the above waveform.

Point ⑧: (Pin 29 IC301)

V : 2V/div H : 0.1 μ sec/div
 DC range 1 : 1 probe



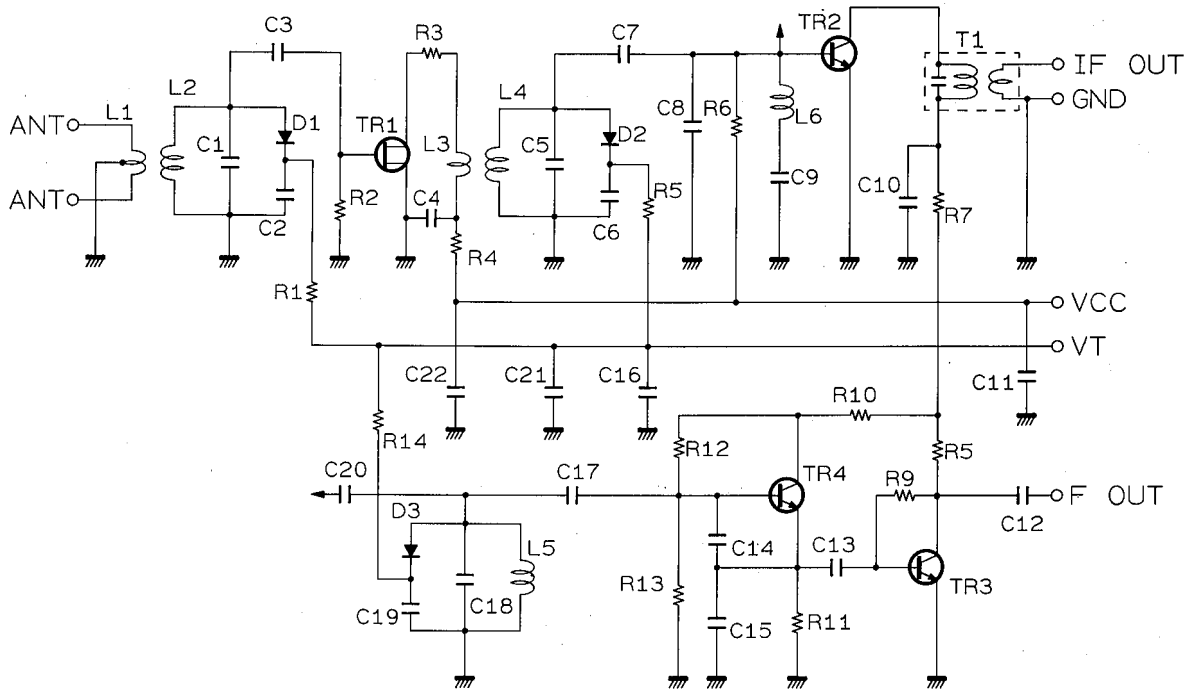
■ DISPLAY DATA



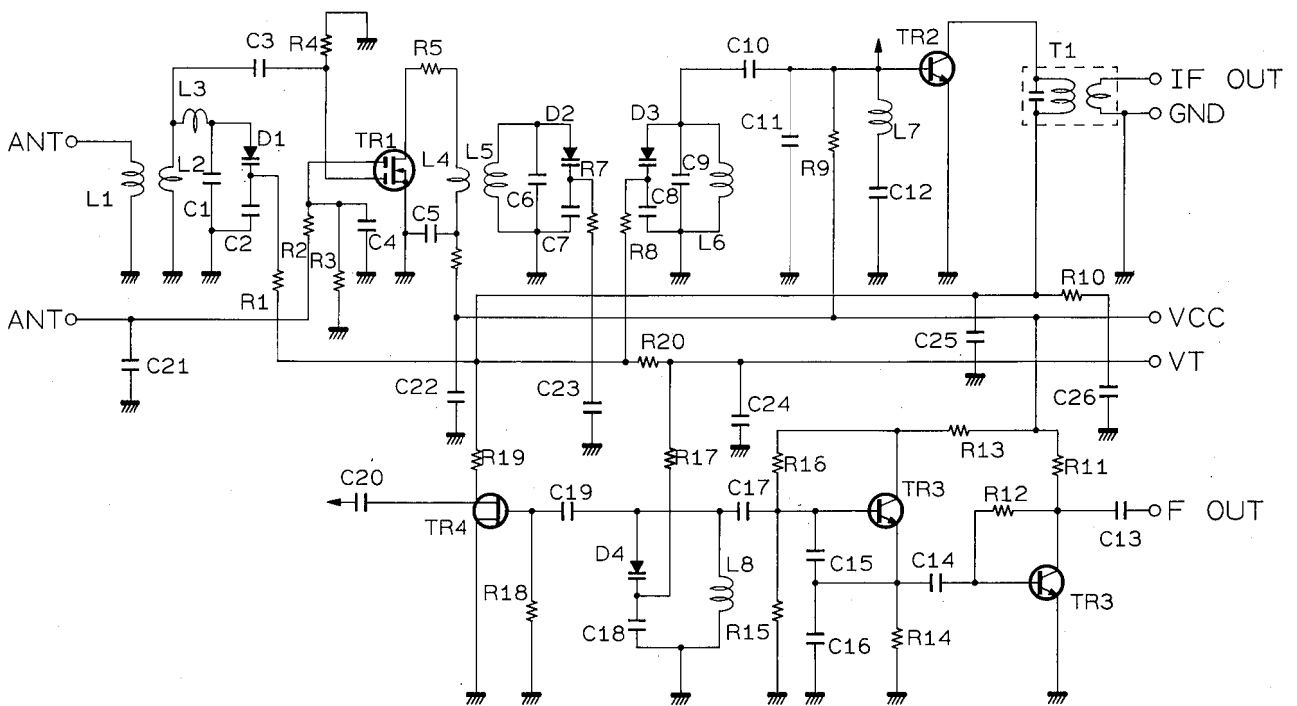
No.	COMB 0	COMB 1	COMB 2	COMB 3	No.	COMB 0	COMB 1	COMB 2	COMB 3
1	2a	2b	2c	—	30	—	—	—	COM
2	2f	2g	2e	2d	31	—	—	COM	—
3	1f	1g	1e	1d	32	—	COM	—	—
4	1a	1b	1c	MEMORY	33	COM	—	—	—
5	3f	3h	—	3e	34	10a	10b	10c	—
6	3g	3j	3d	3P	35	10f	10g	10e	10d
7	3k	3a	3b	3c	36	TIME OVER	B	A	AUTO EDIT
8	—	4e	—	—	37	12a	12b	12c	PROGRAM
9	4a	4h	4r	—	38	12f	12g	12e	12d
10	—	4k	4P	—	39	12	2	11	1
11	—	4b	—	—	40	13	3	14	—
12	6f	6g	6e	6d	41	13a	13b	13c	—
13	6a	6b	6c	—	42	13f	13g	13e	13d
14	—	—	—	TIMER	43	15	5	4	—
15	7a	7b	7c	ON TIME	44	14f	14g	14e	14d
16	7f	7g	7e	7d	45	14a	14b	14c	—
17	—	COL 1	DP	AUTO ST	46	17	7	16	6
18	—	5b	5c	SLEEP	47	15f	15g	15e	15d
19	8f	8g	8e	8d	48	15a	15b	15c	COL 2
20	8a	8b	8c	STEREO	49	18	8	19	9
21	9f	9g	9e	9d	50	16f	16g	16e	16d
22	9a	9b	9c	—	51	16a	16b	16c	—
23	—	MHz	kHz	—	52	OVER	20	10	—
24	—	—	—	COM	53	17f	17g	17e	17d
25	—	—	COM	—	54	17a	17b	17c	—
26	—	COM	—	—	55	RANDOM	TOTAL	REMAIN	—
27	COM	—	—	—	56	—	—	—	REPEAT
28	11a	11b	11c	—	57	—	—	▶	■
29	11f	11g	11e	11d					

FRONT END

• U, C, R, A, H, B models

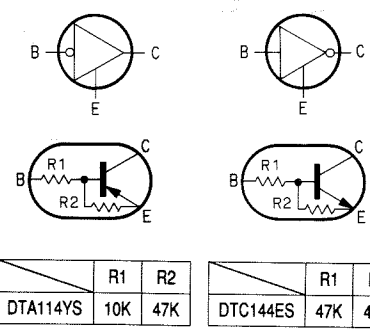
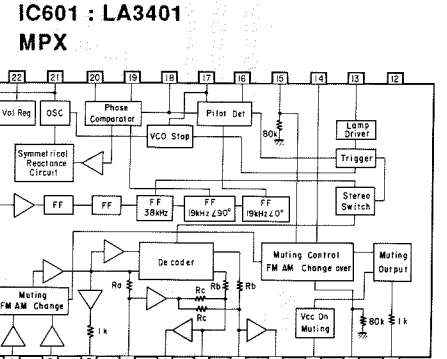
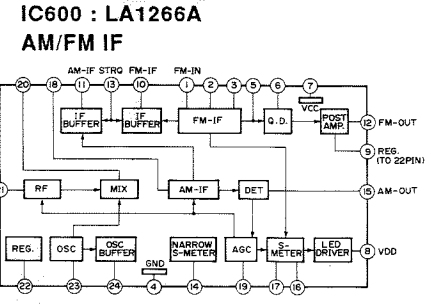
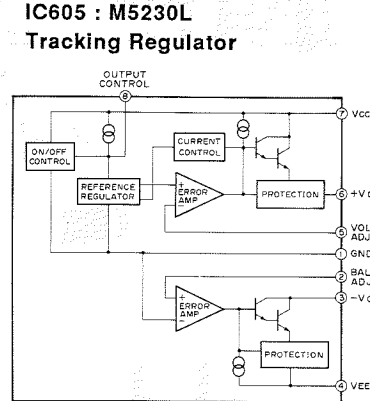
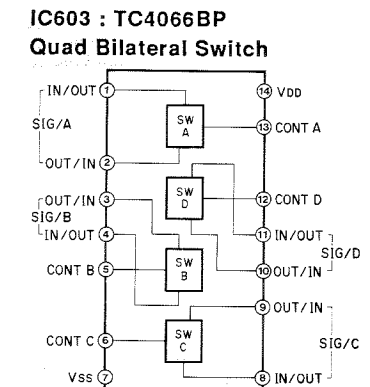
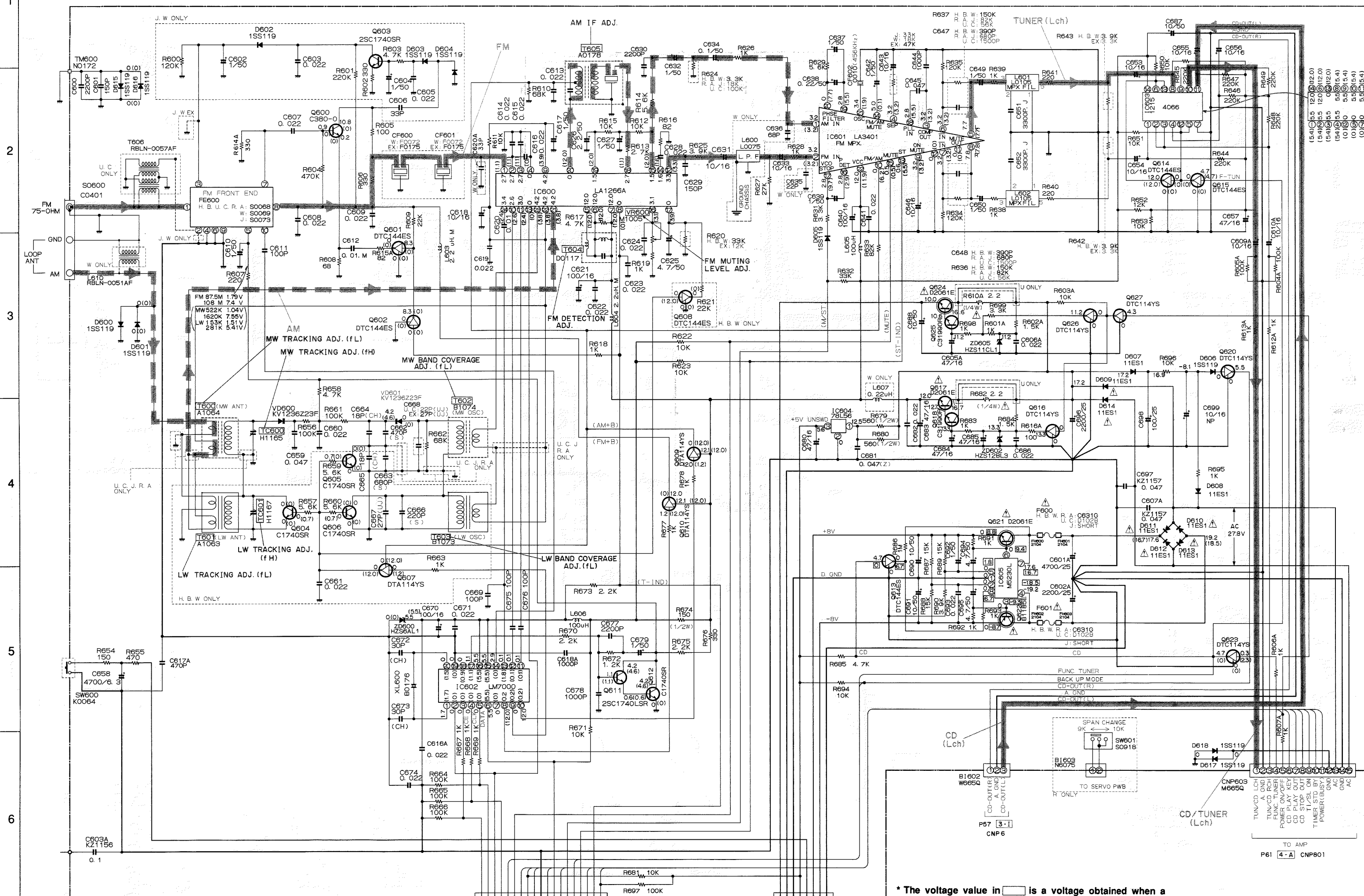


• W model

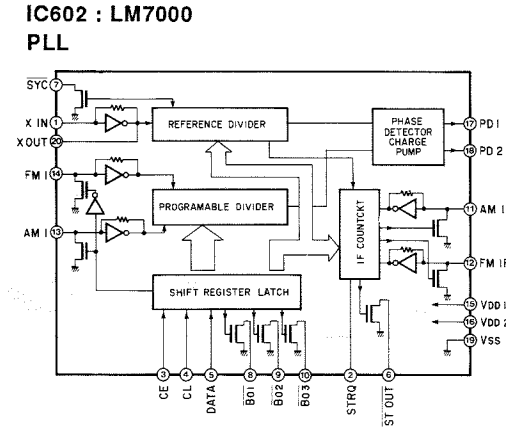


TCD-CC5 SCHEMATIC DIAGRAM (TUNER)

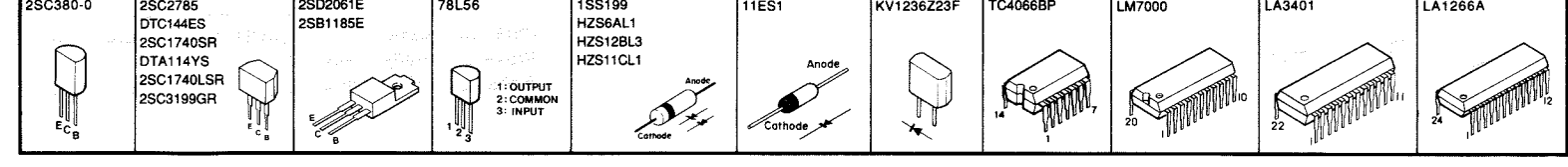
The voltages are measured at FM (98.0MHz, STEREO) reception mode.
Only the voltages () are at AM (1035kHz) reception mode.



* The voltage value in () is a voltage obtained when a function other than TUNER is set.



PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.

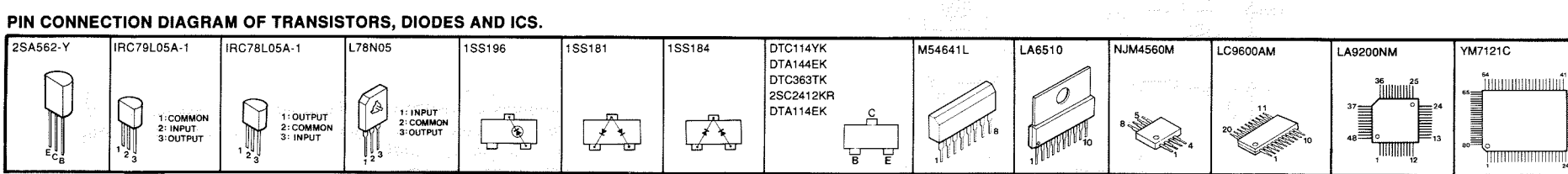
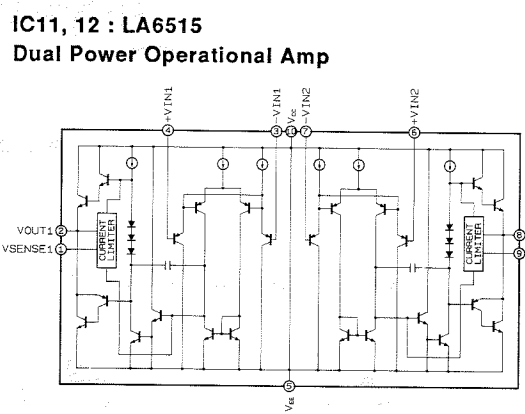
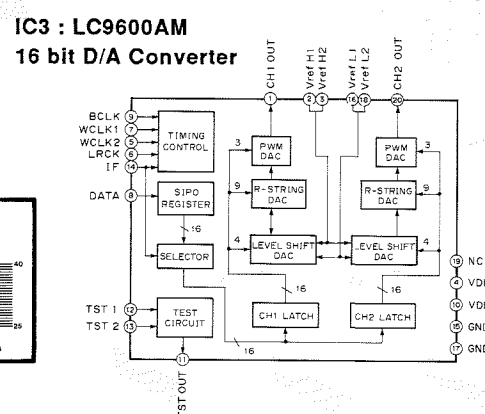
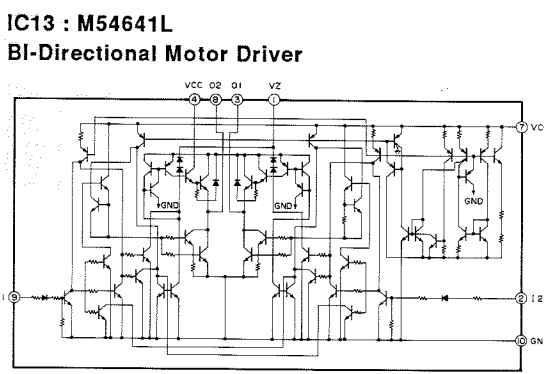
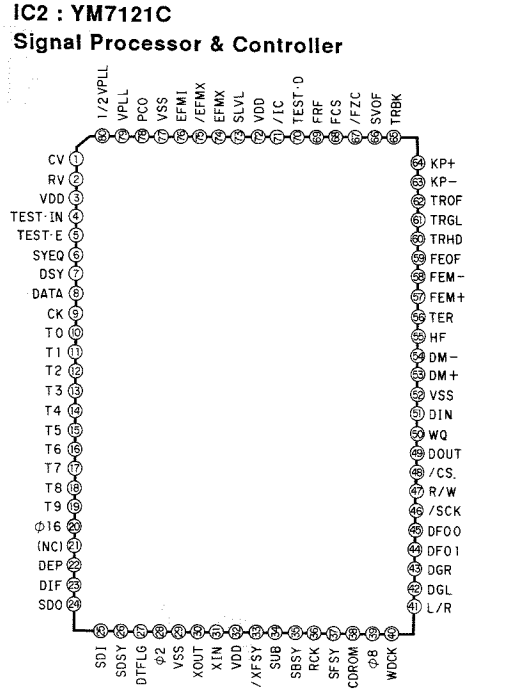
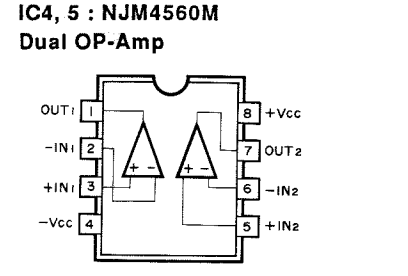
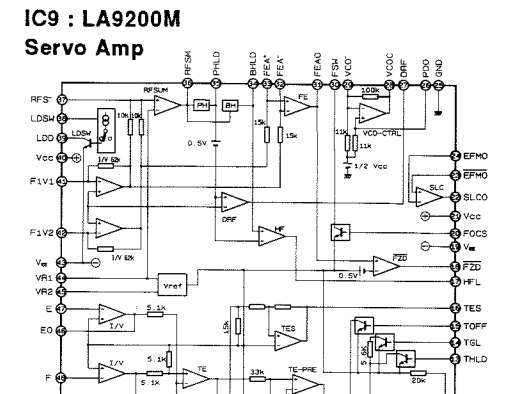
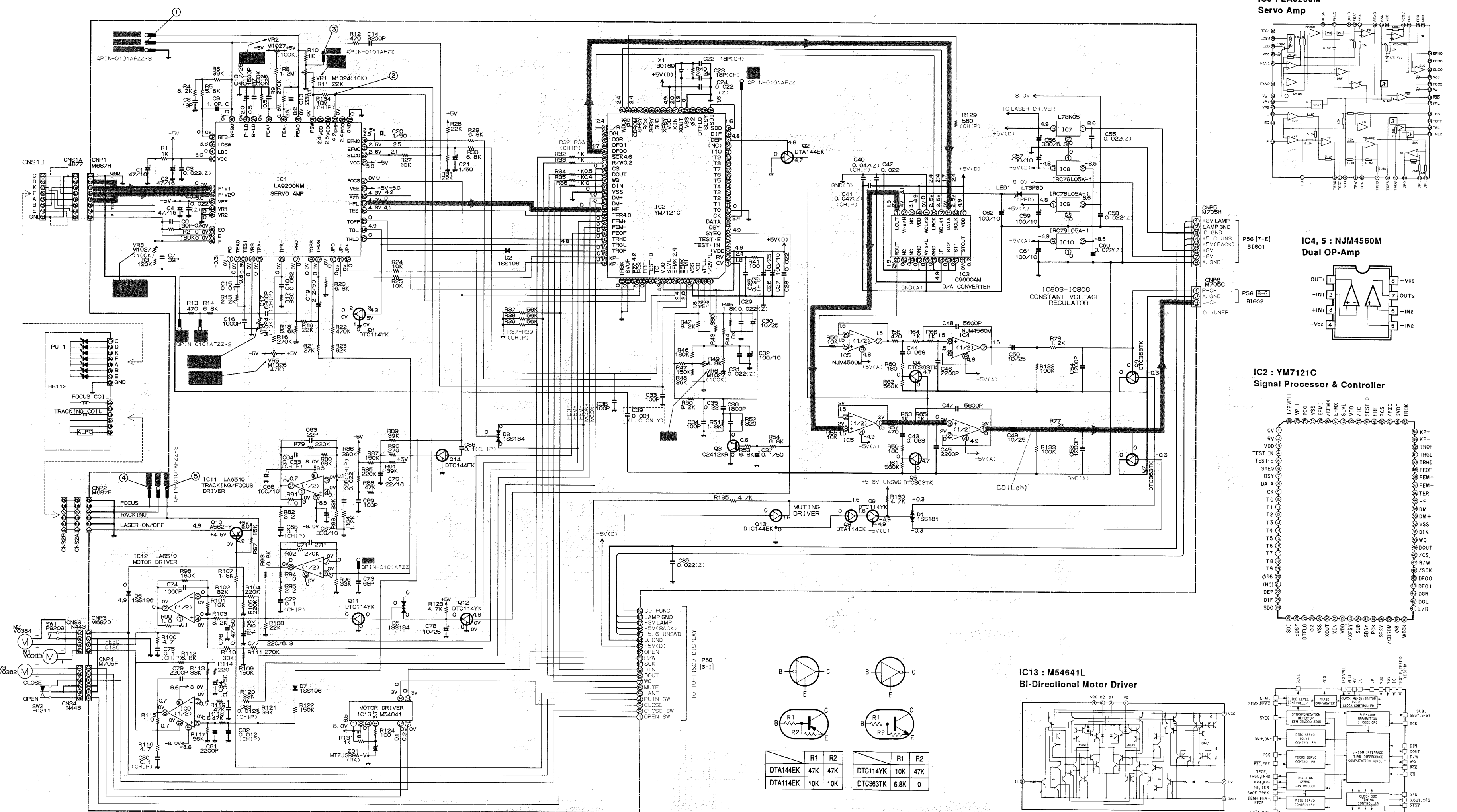


* All voltage are measured with a 10MΩ/DC electric volt meter.
* Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

TCD-CC5 SCHEMATIC DIAGRAM (CD SERVO)

Condition : Set the Input Selector to CD position. (NORMAL PLAY mode)

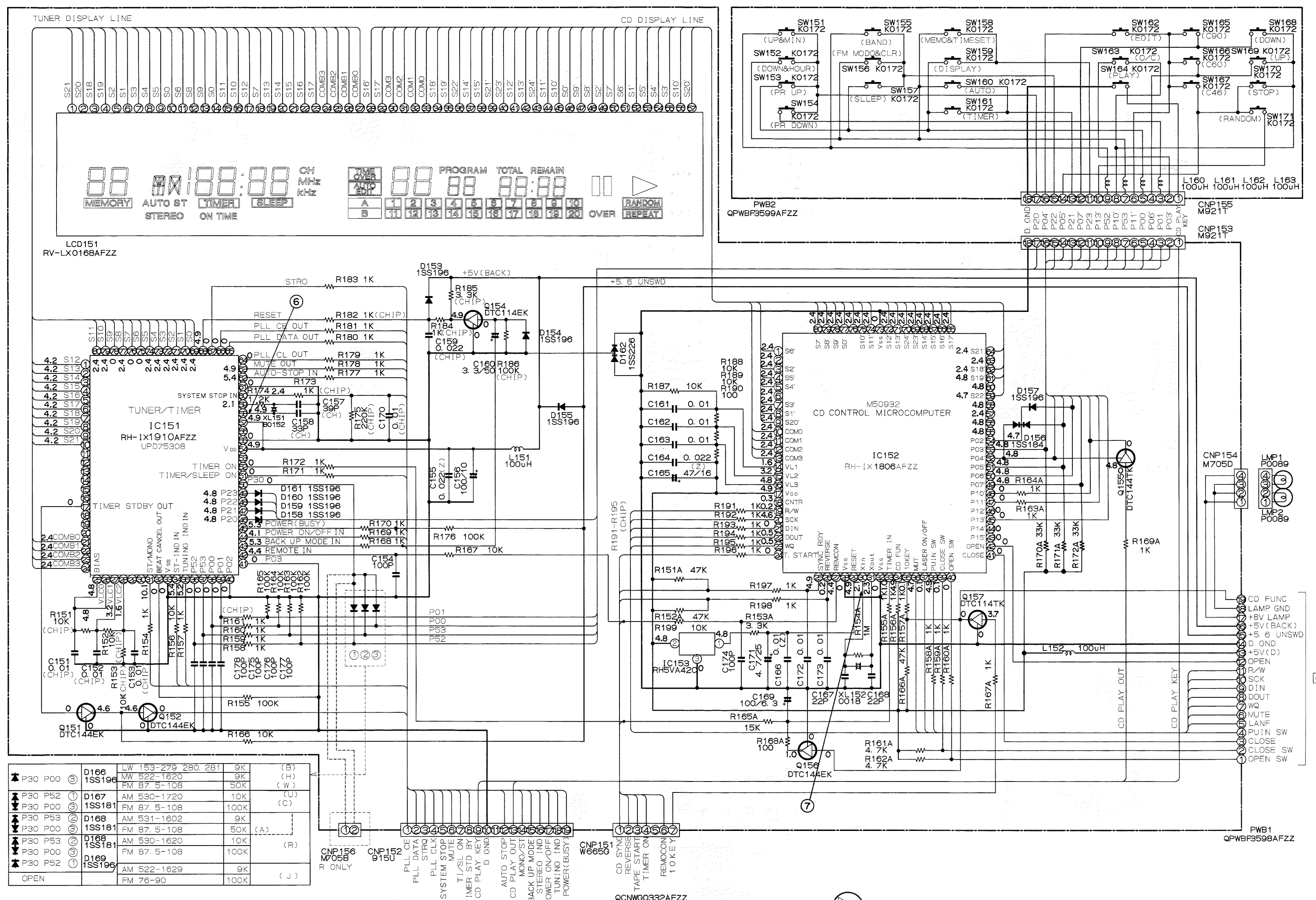
① to ⑤ : WAVEFORM OF TEST POINT (See page 52)



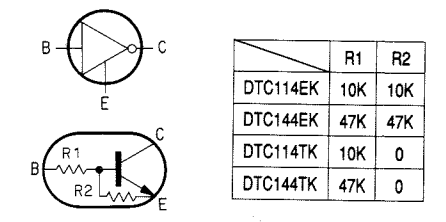
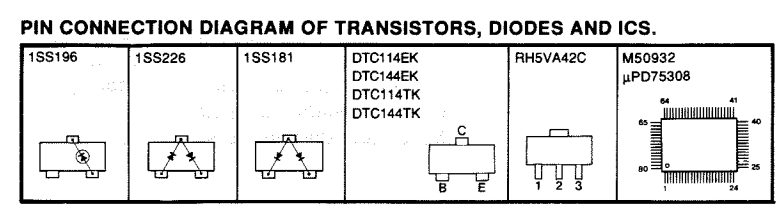
All voltage are measured with a 10MΩ/DC electric volt meter.
 Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
 Schematic diagram is subject to change without notice.

TCD-CC5 SCHEMATIC DIAGRAM (TUNER & CD DISPLAY)

Condition : Set the Input Selector to CD position. (NORMAL PLAY mode) ⑥ to ⑦ : WAVEFORM OF TEST POINT (See page 53)



▲ P30 P00	⑥	D166	LW 153-279	280, 281	9K	(B)
		1SS196	MW 522-1620		9K	(H)
			FM 87.5-108		50K	(W)
▲ P30 P52	①	D167	AM 530-1720		10K	(U)
		1SS181	FM 87.5-108		100K	(C)
▲ P30 P53	②	D168	AM 531-1602		9K	
		1SS181	FM 87.5-108		50K	(A)
▲ P30 P53	③	D168	AM 530-1620		10K	(R)
		1SS181	FM 87.5-108		100K	
▲ P30 P00	③	D169	AM 522-1629		9K	
		1SS196	FM 76-90		100K	(J)
OPEN						

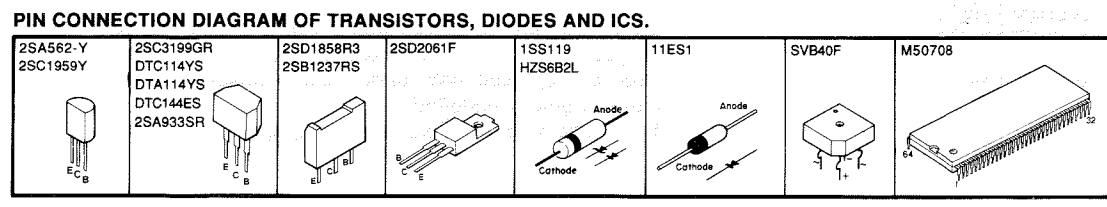
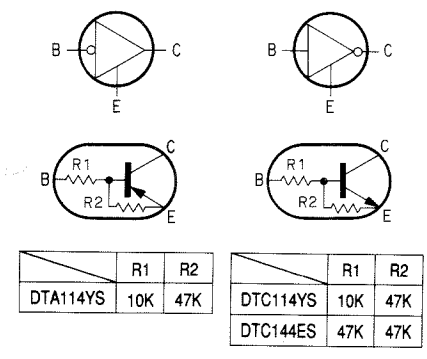
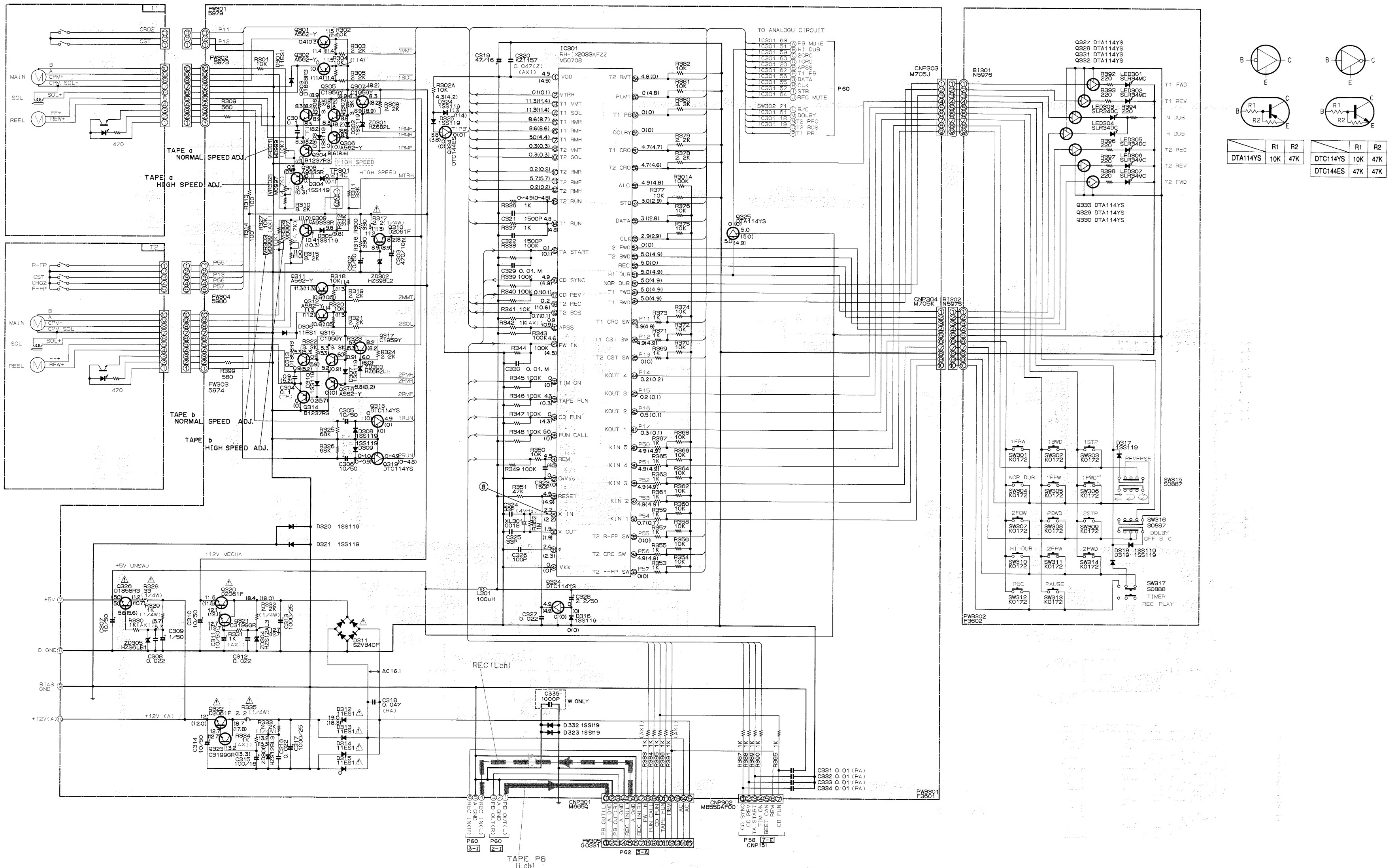


* All voltage are measured with a 10MΩ/DC electric volt meter.
 * Components having special characteristics are marked ▲ and must be replaced with parts having specifications equal to those originally installed.
 * Schematic diagram is subject to change without notice.

K-CC5 SCHEMATIC DIAGRAM (DECK CONTROL)

Condition : Set the DOLBY NR switch to OFF position. The voltages are measured by LH tape at NORMAL PLAY mode. (T2 : Tpea a)
Only the voltages at () are measured by LH tape at REC mode. (AUX recording)

Ⓑ : WAVEFORM OF TEST POINT (See page 53)

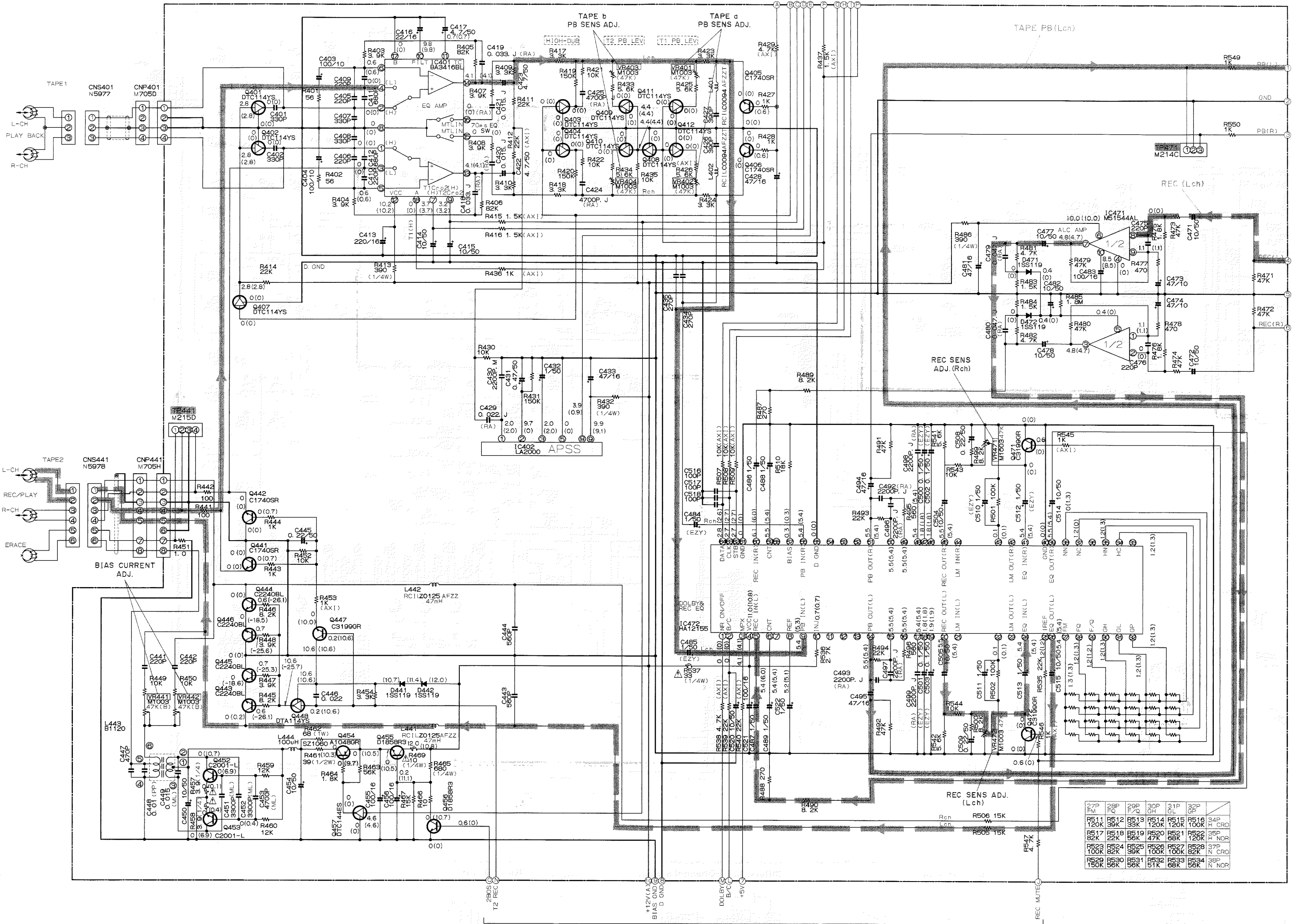


* All voltage are measured with a 10MΩ/DC electric volt meter.
* Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

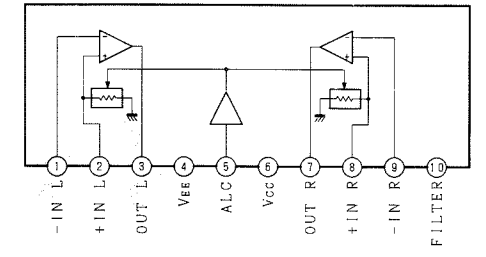
K-CC5 SCHEMATIC DIAGRAM (TAPE AMP)

The voltages are measured by LH tape at NORMAL PLAY mode. (T2 : Tpa e)
 Only the voltages at () are measured by LH tape at REC mode. (AUX recording)

Condition : Set the DOLBY NR switch to OFF position.

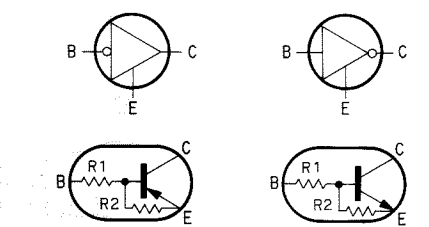


IC471 : M51544AL
Dual Pre Amp with ALC



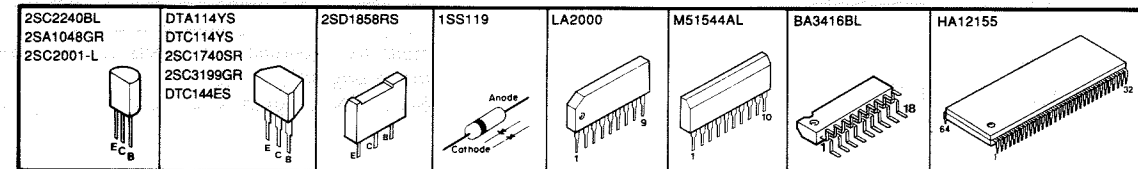
IC472 : HA12155
Dolby & Rec EQ Amp

Pin No.	Terminal name	Description
7	RPI	Recording input
8	PBI	Play back input
56	LM IN	Level meter input
44	EQ IN	Equalizer input
41	EQ IN	Equalizer input
5	VRI	Volume input
60	VCC	Power Supply
4	REF	Ripple filter
8	NR IN	NR processor input
12	SS 1	Spectral skewing amp input
53	CCR	Current controlled resistor output
15	SS 2	Spectral skewing amp output
50	IA OUT	input amp output
54	VREF	Reference voltage buffer output
13	PB OUT	Play back (Decode) output
51	SS 2	Spectral skewing amp output
14	REC OUT	Recording (Encode) output
45	EQ OUT	Equalizer output
39	EQ OUT	Equalizer output
18	HLS DET	Time constant pin for rectifier
47	LLS DET	Time constant pin for rectifier
46	LLS DET	Time constant pin for rectifier
57	BIAS	Dolby NR Reference current input
25	IREF	EQ Reference current input
27	FM	EQ Parameter current input
28	IQ	EQ Parameter current input
29	TO	EQ Parameter current input
30	GL	EQ Parameter current input
31	GL	EQ Parameter current input
32	CP	EQ Parameter selector
33	HM	EQ Parameter selector
34	HC	EQ Parameter selector
35	HN	EQ Parameter selector
36	NM	EQ Parameter selector
37	NC	EQ Parameter selector
38	NN	EQ Parameter selector
6	CNT	DAC output Volume control input
59	LMD	Time constant Pin for level meter
43	STB	Level meter output
22	LM OUT	Level meter output
1	NR ON/OFF	Mode control input
2	CB	Mode control input
3	MPX ON/OFF	Mode control input
62	STB	Mode control input
63	DATA	Mode control input
14	DATA	Mode control input
10	INJ	Injection current input for ??
55	D-GND	Digital (Logic) ground
40	GND	Ground
61	GND	Ground

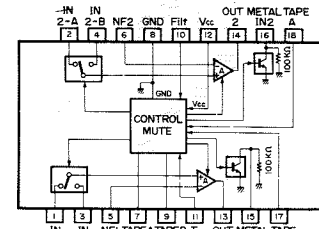


DTA114YS	10K	47K	DTC114YS	10K	47K
			DTC144ES	47K	47K

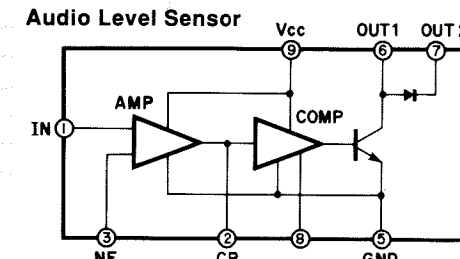
PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.



IC401 : BA3416BL
Dual Playback Preamplifier



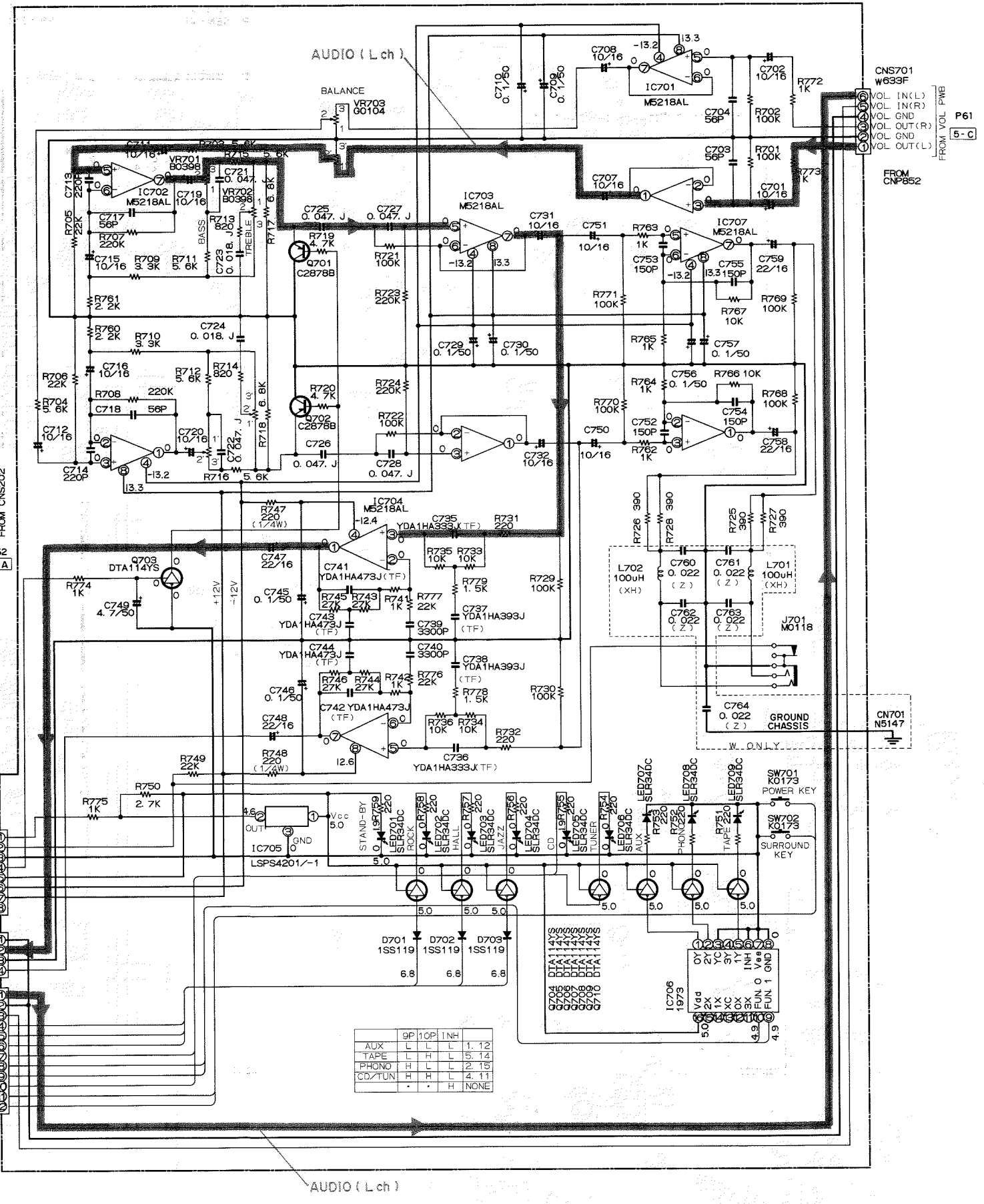
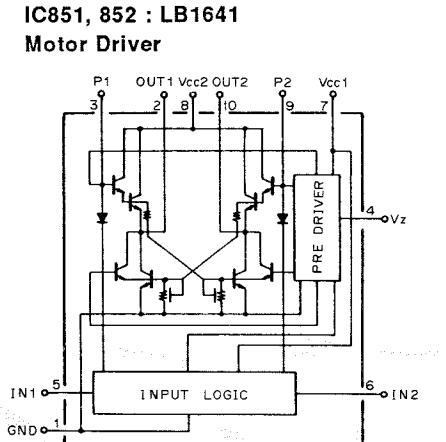
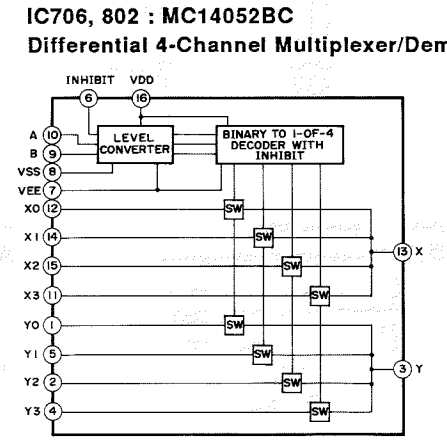
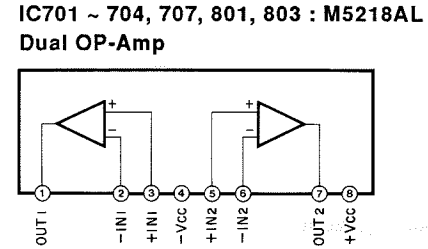
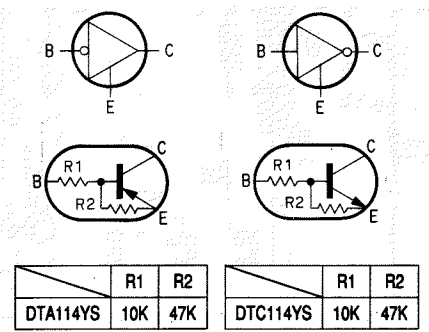
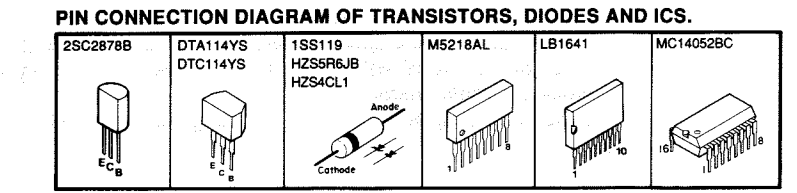
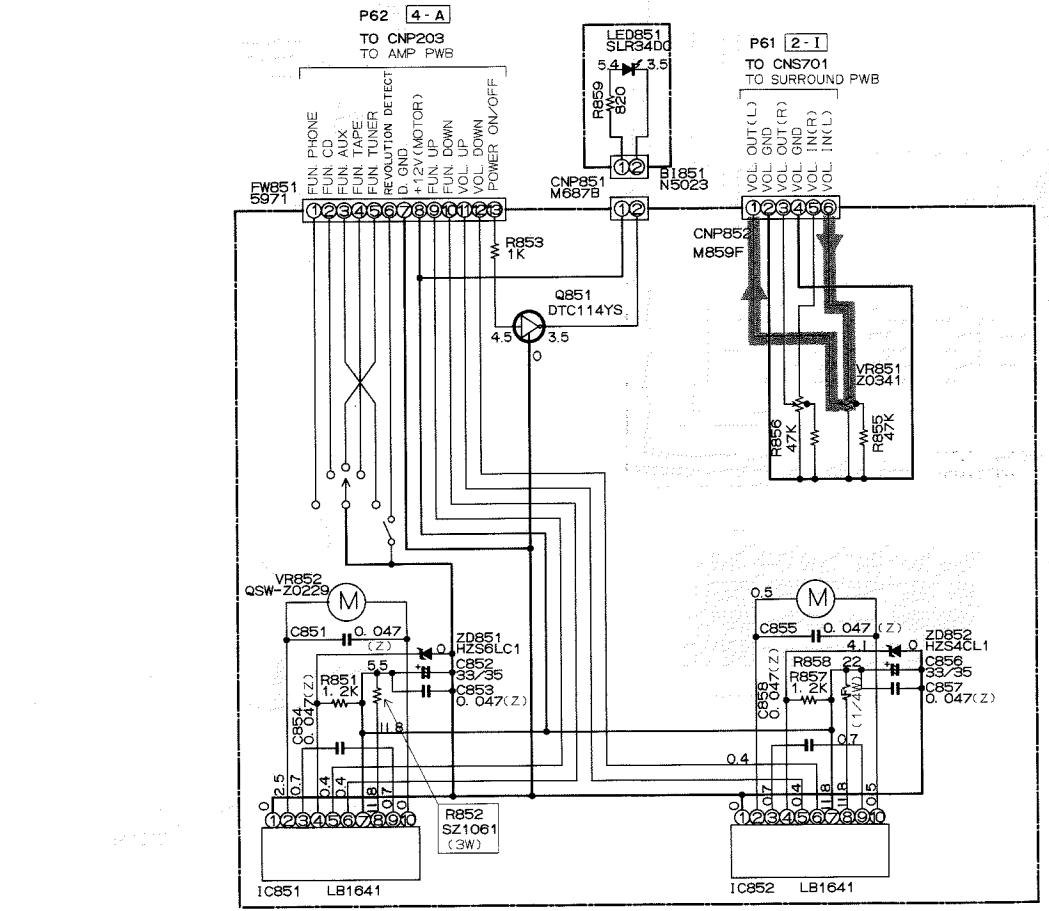
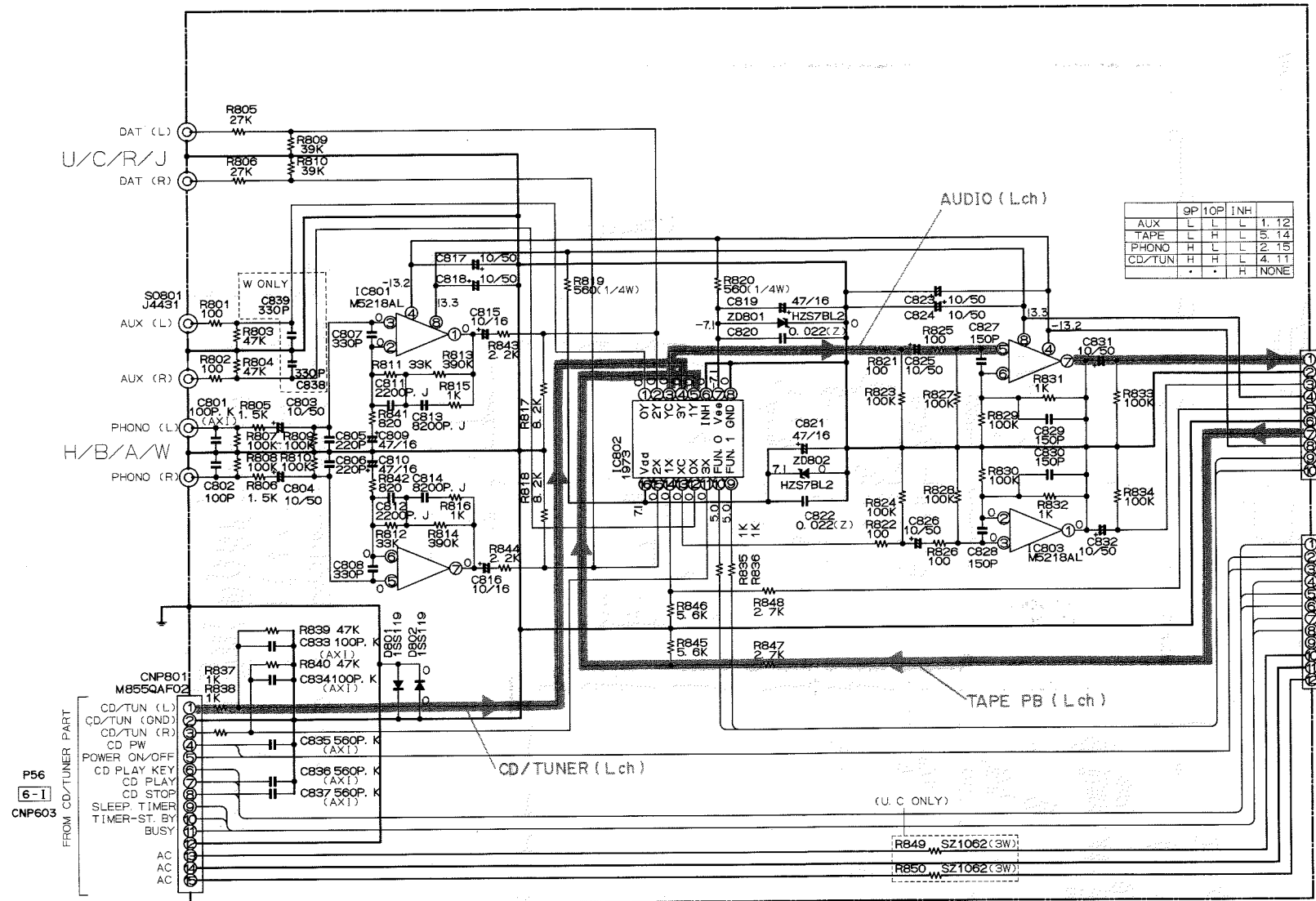
IC402 : LA2000
Audio Level Sensor



All voltage are measured with a 10MΩ/DC electric volt meter.
 Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
 Schematic diagram is subject to change without notice.

A-CC5 SCHEMATIC DIAGRAM (VOL. & SURROUND)

Condition : Set the Input Selector to CD position.
Set the Sound Processor switch to OFF position.



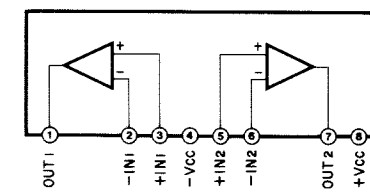
* All voltage are measured with a 10MΩ/DC electric volt meter.
 * Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
 * Schematic diagram is subject to change without notice.

A-CC5 SCHEMATIC DIAGRAM (POWER AMP)

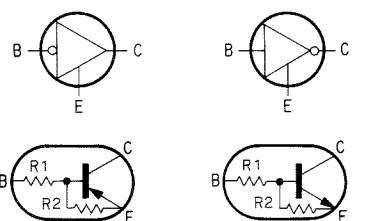
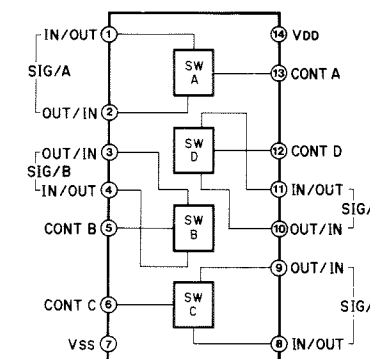
Conditions : Set the Input Selector to CD position.
Set the Sound Processor switch to OFF position.
Power Supply → AC230V, 50Hz (H mode)

⑨ to ⑩ : WAVEFORM OF TEST POINT (See page 53)

IC201, 204 : M5218AL
IC207 : M5238AL
Dual OP-Amp

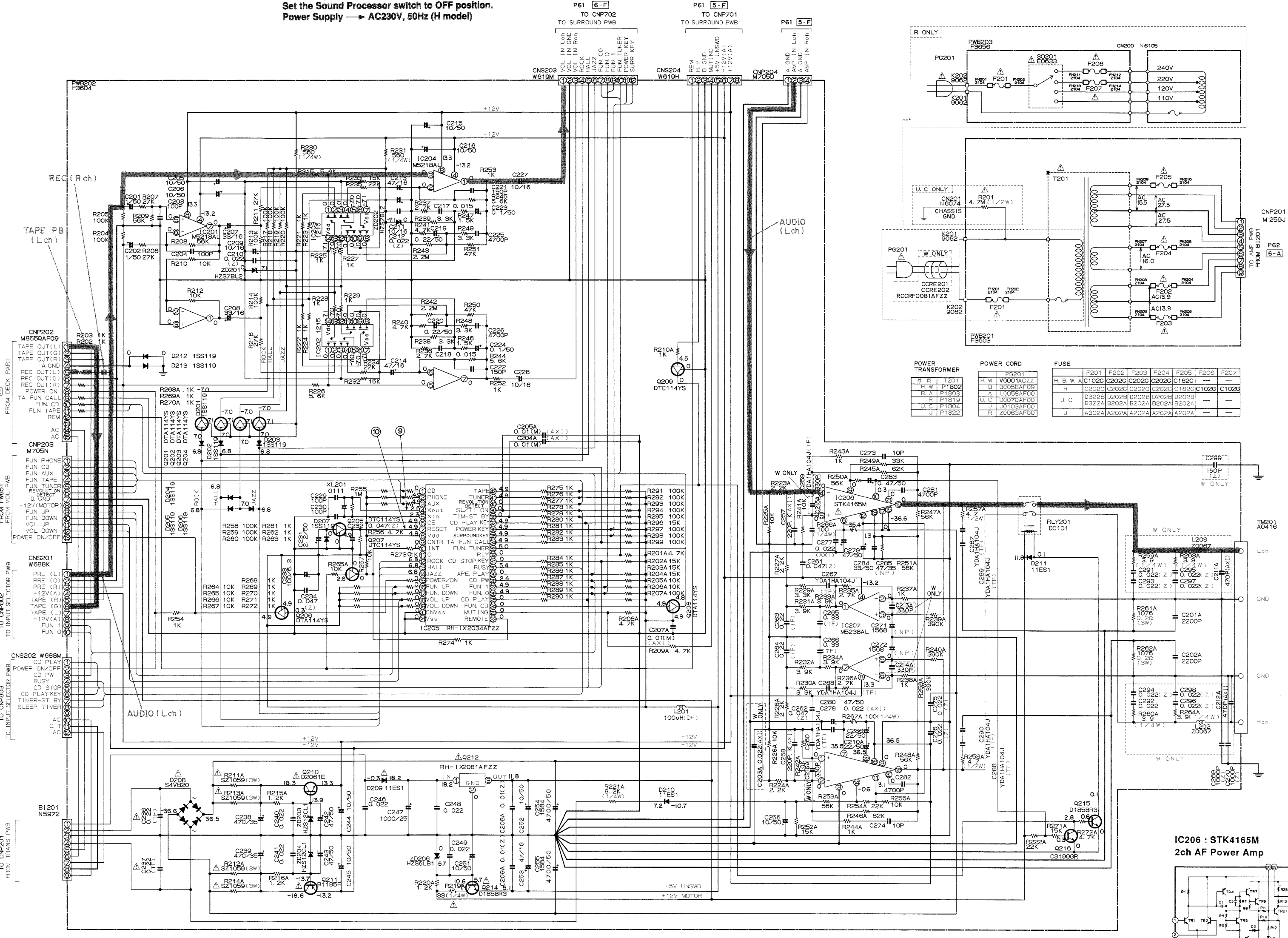
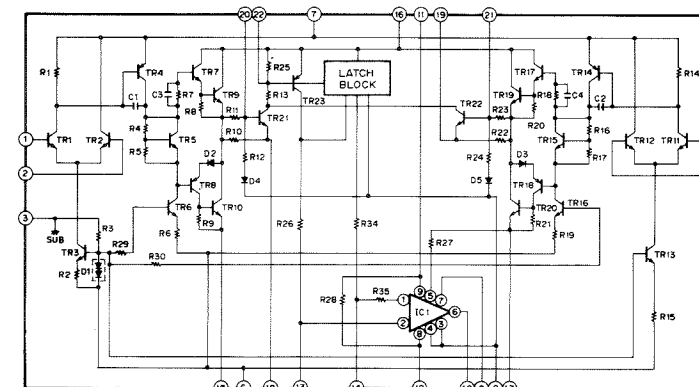


IC202, 203 : TC4066BP
Quad Bilateral Switch



DTA114YS	10K	47K	DTC114YS	10K	47K
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IC206 : STK4165M
2ch AF Power Amp



POWER TRANSFORMER		POWER CORD		FUSE						
H	W	H	W	F201	F202	F203	F204	F205	F206	F207
H	W	H	W	C102G	C202G	C202G	C202G	C162G	---	---
B	A	B	A	C202G	C202G	C202G	C202G	C162G	C102G	C102G
U	C	U	C	D322B	D202B	D202B	D202B	D202B	---	---
U	C	U	C	B322A	B202A	B202A	B202A	B202A	---	---
J	J	J	J	A302A	A202A	A202A	A202A	A202A	---	---

PIN CONNECTION DIAGRAM OF TRANSISTORS, DIODES AND ICs.

DTA114YS DTC114YS 2SC3199GR	2SD1858R3	2SB1185F 2SD2061E	μPC7812AHF	HZS12CL1 HZS6LB1 HZS7BL2 1SS119	11ES1	S4VB20	M5218AL M5238AL	TC4066BP	STK4165M	M50720
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* All voltage are measured with a 10MΩ/DC electric volt meter.
* Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.
* Schematic diagram is subject to change without notice.

PARTS LIST

CC-5

■ **WARNING**

Components having special characteristics are marked Δ and must be replaced with parts having specifications equal to those originally installed.

● Carbon resistors (1/6W or 1/4W) are not included in the ELECTRICAL PARTS List. For the parts No. of the carbon resistors, refer to P. 89.

■ **ELECTRICAL PARTS**

CD SERVO P. C. B.

PART NO.	Description	Remarks	Markets
NXG11110	P.C.B. ASS'y, CD SERVO		DCEKS0088AF03 HBW
NXG11120	P.C.B. ASS'y, CD SERVO		DCEKS0088AF06 UC
NXG11830	P.C.B. ASS'y, CD SERVO		DCEKS0088AF12 R
NXG11840	P.C.B. ASS'y, CD SERVO		DCEKS0088AF09 A
NXG11130	P.C.B. ASS'y, CD SWITCH		DUNTZO745AF03
FXG08080	CERAMIC CAP	100pF 50V C33, 34, 38, 69, 154, 174-178	1305950320
FXG08090	CERAMIC CAP	0.001uF 50V C16, 74	1305950295
FXG08090	CERAMIC CAP	0.001uF 50V C39	1305950295 UC
FXG08270	CERAMIC CAP	0.0068uF 50V C17	1305950253
FXG08260	CERAMIC CAP	0.01uF 50V C151-153, 170	1305950189
FXG08200	CERAMIC CAP	0.012uF 50V C82, 83	1305950184
FXG08210	CERAMIC CAP	0.022uF 50V C65	1305950186
FXG08230	CERAMIC CAP	0.022uF 50V C159	1425950016
FXG08240	CERAMIC CAP	0.033uF 50V C40, 41	1305950235
FXG08220	CERAMIC CAP	0.033uF 50V C64	1115950031
FXG08190	CERAMIC CAP	0.1uF 50V C68, 72, 75, 80, 86	1105950084
FXG08370	CHIP MULTILAYER CERAMIC CAP	0.0015uF 16V C11	1305900674
FXG08380	CHIP MULTILAYER CERAMIC CAP	0.0018uF 16V C36	1305900675
FXG08390	CHIP MULTILAYER CERAMIC CAP	0.0022uF 16V C79, 81	1305900685
FXG08430	CHIP MULTILAYER CERAMIC CAP	0.0082uF 16V C14	1305900703
FXG08410	CHIP MULTILAYER CERAMIC CAP	0.01uF 16V C15, 161-163, 172-173	1305900680
FXG08420	CHIP MULTILAYER CERAMIC CAP	0.01uF 16V C166	1305900681
FXG07850	CHIP MULTILAYER CERAMIC CAP	1pF 50V C9	1255930015
VJ900100	CHIP MULTILAYER CERAMIC CAP	18pF 50V C22, 23	1105930241
FXG07860	CHIP MULTILAYER CERAMIC CAP	18pF 50V C8	1265930001
UD111220	CHIP MULTILAYER CERAMIC CAP	22pF 50V C12, 13, 63, 167, 168	1105930256
FXG07870	CHIP MULTILAYER CERAMIC CAP	27pF 50V C71	1255930017
FXG07880	CHIP MULTILAYER CERAMIC CAP	39pF 50V C6, 7	1255930019
FXG07890	CHIP MULTILAYER CERAMIC CAP	68pF 50V C73	1305930524
UA653120	MYLAR FILM CAP	0.0012uF 50V C53, 54	VCQYKA1HM122J
FXG08340	MYLAR FILM CAP	0.0022uF 50V C45, 46	1205960021
UA253560	MYLAR FILM CAP	0.0056uF 50V C47, 48	VCQYKA1HM562J
FXG08010	MYLAR FILM CAP	0.22uF 50V C25, 35	1255910008
VC815000	ELECTROLYTIC CAP	220uF 6.3V C77	1115900265
VJ836300	ELECTROLYTIC CAP	330uF 6.3V C56	1305900594
VF760000	ELECTROLYTIC CAP	100uF 10V C27, 32, 57, 59, 61, 62, 66, 156, 169	1135900105
UJ638330	ELECTROLYTIC CAP	330uF 10V C67	1305900556
UM407220	ELECTROLYTIC CAP	22uF 16V C70	1155900065
UM416470	ELECTROLYTIC CAP	4.7uF 25V C10, 171	1255900062
Vi536300	ELECTROLYTIC CAP	10uF 50V C26, 30, 49, 50, 78	1255900090
UM215100	ELECTROLYTIC CAP	0.1uF 50V C37	1165900152
VJ839000	ELECTROLYTIC CAP	0.47uF 50V C76	1255900061
VJ839100	ELECTROLYTIC CAP	1uF 50V C20, 21	1165900153
VJ839200	ELECTROLYTIC CAP	2.2uF 50V C19	1255900081
UM216330	ELECTROLYTIC CAP	3.3uF 50V C84, 160	1165900155
iX631700	DIODE	1SS196 D2, 4, 6, 7, 153-155, 157-161	1115700030
iX631700	DIODE	1SS196 D167	1115700030 UC
iX631700	DIODE	1SS196 D166	1115700030 HBW
iX631700	DIODE	1SS196 D168	1115700030 A
iX631700	DIODE	1SS196 D169	1115700030 RA

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CD SERVO P. C. B.

PART NO.	Description	Remarks	Markets
iXG31680	DIODE	1SS181 D1	1115700031
iXG31690	DIODE	1SS184 D3,5,156	1305700188
iXG31710	DIODE	1SS226 D162	1305700189
iXG31830	ZENER DIODE	MTZJ3R9A ZD1	1105710099
XG839A00	IC	LA9200M IC1	1255730216
XG841A00	IC	YM7121C IC2	1105730462
iXG31870	IC	LC9600AM IC3	1305730534
XA862B00	IC	NJM4560M IC4,5	1255730219
XA506001	IC	L78N05 IC7	1255730215
iXG31900	IC	RC78L05A IC9	1105730316
iXG31910	IC	RC79L05A IC8,10	1255730276
XF947A00	IC	LA6510 IC11,12	1105730187
iXG31890	IC	M54641L IC13	1255730156
iXG31610	IC	RH-IX1910AFZZ IC151	1105730405
iXG31600	IC	RH-IX1806AFZZ IC152	1105730392
iXG31920	IC	RH5VA42C IC153	1105730401
iXG32000	DIGITAL TRANSISTOR	DTC114EK Q154	1115760140
iXG32020	DIGITAL TRANSISTOR	DTC114YK Q1,9,11,12	1115760141
iXG32010	DIGITAL TRANSISTOR	DTC114TK Q157	1305760446
iXG32040	DIGITAL TRANSISTOR	DTC144EK Q13,151,152,156	1115760142
iXG32060	DIGITAL TRANSISTOR	DTC144TK Q155	1105760190
iXG31980	DIGITAL TRANSISTOR	DTA114EK Q8	1115760137
iXG31990	DIGITAL TRANSISTOR	DTA144EK Q2	1115760139
iXG32070	TRANSISTOR	DTC363TK Q4-7	1255760111
iXG32150	TRANSISTOR	2SC2412KR Q3	1115760132
iXG14740	TRANSISTOR	2SA562Y Q10	1165760020
iXG31950	LED	LT3P8D LED1	1125740035
RD255560	CHIP RESISTOR	560 Ω 1/10W R129	1305810710
RD256100	CHIP RESISTOR	1K Ω 1/10W R32-36,173,182,184, 191-195	1305810598
RD256330	CHIP RESISTOR	3.3K Ω 1/10W R185,153A	1305810613
RD256470	CHIP RESISTOR	4.7K Ω 1/10W R130,135	1305810614
HX603260	CHIP RESISTOR	10K Ω 1/10W R151-153	1305810599
RD257330	CHIP RESISTOR	33K Ω 1/10W R171A,172A	
RD257560	CHIP RESISTOR	56K Ω 1/10W R37-39	1305810616
RD258100	CHIP RESISTOR	100K Ω 1/10W R186	1305810600
RD258220	CHIP RESISTOR	220K Ω 1/10W R175	1305810611
RD259100	CHIP RESISTOR	1M Ω 1/10W R134	
HX607170	CHIP RESISTOR	1 Ω 1/8W R81,94,99,115	1305810864
HX607200	CHIP RESISTOR	2.2 Ω 1/8W R82,95	1305810841
RA253470	CHIP RESISTOR	4.7 Ω 1/8W R100,116	1305810880
RA255100	CHIP RESISTOR	100 Ω 1/8W R41,124,190,168A	1305810848
RA255180	CHIP RESISTOR	180 Ω 1/8W R59,60	1305810860
RA255220	CHIP RESISTOR	220 Ω 1/8W R114	1305810866
RA255270	CHIP RESISTOR	270 Ω 1/8W R90	1305810840
RA255330	CHIP RESISTOR	330 Ω 1/8W R17,43	1305810842
RA255470	CHIP RESISTOR	470 Ω 1/8W R12,13,57,58	1305810877
RA255820	CHIP RESISTOR	820 Ω 1/8W R52	1305810846
RA256100	CHIP RESISTOR	1K Ω 1/8W R1,10,63-66,131,154, 157-161,168-172,	1305810849
RA256100	CHIP RESISTOR	1K Ω 1/8W 177-181,183,196-198, 155A-160A,163A,164A,	
RA256100	CHIP RESISTOR	1K Ω 1/8W 167A,169A	

CD SERVO P. C. B.

PART NO.	Description	Remarks	Markets
RA256120	CHIP RESISTOR	1.2K Ω 1/8W R77,78,84,174	1305810837
RA256150	CHIP RESISTOR	1.5K Ω 1/8W R106	1305810857
RA256180	CHIP RESISTOR	1.8K Ω 1/8W R44,45,49,51,107	1305810861
RA256220	CHIP RESISTOR	2.2K Ω 1/8W R15	1305810867
RA256470	CHIP RESISTOR	4.7K Ω 1/8W R123,161A,162A	1305810878
RA256560	CHIP RESISTOR	5.6K Ω 1/8W R5,18	1305810883
RA256680	CHIP RESISTOR	6.8K Ω 1/8W R14,20,29,30,53,54, 93,112	1305810886
RA256820	CHIP RESISTOR	8.2K Ω 1/8W R4,42,50,103	1305810889
RA257100	CHIP RESISTOR	10K Ω 1/8W R24-27,55,56,101,156 166,167,187-189,199	1305810850
RA257150	CHIP RESISTOR	15K Ω 1/8W R97,165A	1305810858
RA257220	CHIP RESISTOR	22K Ω 1/8W R11,19,28,31,108	1305810868
RA257270	CHIP RESISTOR	27K Ω 1/8W R21	1305810871
RA257330	CHIP RESISTOR	33K Ω 1/8W R83,96,110,113,120, 121,170A	1305810873
RA257390	CHIP RESISTOR	39K Ω 1/8W R6,48,89,91	1305810844
RA257470	CHIP RESISTOR	47K Ω 1/8W R88,118,119,151A, 152A,166A	1305810879
RA257560	CHIP RESISTOR	56K Ω 1/8W R117	1305810884
RA257680	CHIP RESISTOR	68K Ω 1/8W R80	1305810887
RA257820	CHIP RESISTOR	82K Ω 1/8W R23,102	1305810890
RA258100	CHIP RESISTOR	100K Ω 1/8W R132,133,155,162-165 176	1305810851
RA258100	CHIP RESISTOR	120K Ω 1/8W R3	1305810855
RA258150	CHIP RESISTOR	150K Ω 1/8W R47,87,109	1305810859
RA258180	CHIP RESISTOR	180K Ω 1/8W R2,4,6,98	1305810863
RA258220	CHIP RESISTOR	220K Ω 1/8W R79,85,104,105	1305810869
RA258270	CHIP RESISTOR	270K Ω 1/8W R9,16,92,111	1305810960
RA258330	CHIP RESISTOR	330K Ω 1/8W R7	1305810874
RA258390	CHIP RESISTOR	390K Ω 1/8W R86	
RA258470	CHIP RESISTOR	470K Ω 1/8W R22	1305810896
RA258560	CHIP RESISTOR	560K Ω 1/8W R61,62	1305810845
RA259100	CHIP RESISTOR	1M Ω 1/8W R154A	1305810852
RA259120	CHIP RESISTOR	1.2M Ω 1/8W R8	1255810131
RA259220	CHIP RESISTOR	2.2M Ω 1/8W R40	1255810132
HX607130	PRE-SET POTENTIOMETER	10K Ω VR1,4	1426700028
HX607140	PRE-SET POTENTIOMETER	47K Ω VR5	1426700030
HX607150	PRE-SET POTENTIOMETER	100K Ω VR2,3,6	1426700031
QX600280	CERAMIC RESONATOR	4MHz XL152	1125790001
QX600700	CRYSTAL	4.19430MHz XL151	1116160014
QX600710	CRYSTAL	16.9344MHz X1	1256160016
GX607670	COIL	100uH L151,152,160-163	1315850006
JX601300	DISPLAY TUBE	LCD151	1105640074
KX601940	SWITCH	SW151-171	1305301178
LX608040	PIN	TP1-11	1105230001
LX607620	PLUG	CNP1	1115100088
LX602800	PLUG	CNP2	1105100253
LX607610	PLUG	CNP3	1105100252
LX602750	PLUG	CNP4	1255100145
LX602700	PLUG	CNP5	1425100118
LX602760	PLUG	CNP6	1105100305
LX607780	PLUG	15P CNP151	1105100604

CD SERVO/MAIN AMP/POWER SUPPLY P. C. B.

PART NO.	Description	Remarks	Markets
LX607730	SOCKET	19P CNP152	1105100601
LX607720	SOCKET	18P CNP153	1105100600
LX602770	PLUG	4P CNP154	1305100366
LX608130	PLUG	2P CNP156	1425100127
LX607740	SOCKET	18P CNP155	1105100602
VF206800	INSULATOR		1104300016
CX673900	PUSH RIVET		1109700807
CX674040	COVER, LAMP		1103230258
JX601370	LAMP		RLMPP0093AFZZ
CX674140	SHEET		1104030217
NX611180	P.C.B. ASS'y, MAIN AMP		DCEK0381AF03 HBRAJ
NX611190	P.C.B. ASS'y, MAIN AMP		DCEK0382AF03 HC
NX611760	P.C.B. ASS'y, MAIN AMP		DCEK0381AF06 W
NX611160	P.C.B. ASS'y, POWER SUPPLY	POWER SUPPLY/INPUT	DCEKA0303AF03 HBA
NX611290	P.C.B. ASS'y, POWER SUPPLY		DCEKA0305AF03 U
NX611870	P.C.B. ASS'y, POWER SUPPLY		DCEKA0311AF03 C
NX611730	P.C.B. ASS'y, POWER SUPPLY		DCEKA0307AF03 R
NX611740	P.C.B. ASS'y, POWER SUPPLY		DCEKA0303AF06 W
NX611770	P.C.B. ASS'y, VOLTAGE SELECT		DCEK0090AF03 R
FG244220	CERAMIC CAP	0.022uF 25V C277, 278	1305900596
FX607900	CERAMIC CAP	10pF 50V C273, 274	1205930047
FX607930	CERAMIC CAP	56pF 50V C703, 704, 717, 718	1205930022
FX608050	CERAMIC CAP	100pF 50V C833, 834	1305950158
FX608050	CERAMIC CAP	100pF 50V C801	1305950158 HBAW
FG212100	CERAMIC CAP	100pF 50V C203, 204, 229, 230	1205930032
FG212100	CERAMIC CAP	100pF 50V C802	1205930032 HBAW
FX607910	CERAMIC CAP	150pF 50V C221, 222, 752-755, 827-830	1125930039
FX607910	CERAMIC CAP	150pF 50V C299	1125930039 W
FX608060	CERAMIC CAP	220pF 50V C257, 258	1015950014
FG212220	CERAMIC CAP	220pF 50V C805, 806	1305930038 HBAW
FG212220	CERAMIC CAP	220pF 50V C713, 714	1305930038
FG212330	CERAMIC CAP	330pF 50V C807, 808	1305930037 HBAW
FX608070	CERAMIC CAP	560pF 50V C835-837	1305950160
FX608290	CERAMIC CAP	0.022uF 50V C210, 212, 240, 241, 246, 248, 249, 275, 276, 820, 822	1205950007
FX608290	CERAMIC CAP	0.022uF 50V C291-298, 760-764	1205950007 W
FX608300	CERAMIC CAP	0.047uF 50V C232, 234, 261, 262, 851, 853-855, 857, 858	1205950008
FX608280	CERAMIC CAP	0.01uF 50V C208A, 209A	1205950010
FX608490	SEMI-CONDUCTIVE CERAMIC CAP	0.0022uF 25V C201A, 202A	1125900145
FX608480	SEMI-CONDUCTIVE CERAMIC CAP	0.0022uF 25V C811, 812	1165900124 HBAW
FX608500	SEMI-CONDUCTIVE CERAMIC CAP	0.0047uF 25V C281, 282	1205900093
FX608510	SEMI-CONDUCTIVE CERAMIC CAP	0.0047uF 25V C225, 226	1305900190
FX608520	SEMI-CONDUCTIVE CERAMIC CAP	0.0082uF 25V C813, 814	1205900104 HBAW
FX608460	SEMI-CONDUCTIVE CERAMIC CAP	0.015uF 25V C217, 218	1125900144
FX608470	SEMI-CONDUCTIVE CERAMIC CAP	0.018uF 25V C723, 724	1305900186
FS684470	SEMI-CONDUCTIVE CERAMIC CAP	0.047uF 25V C721, 722, 725-728	1205900094
VF467300	CERAMIC TUBULAR CAP	0.01uF 16V C204A, 205A, 207A	1305900500

MAIN AMP/POWER SUPPLY P. C. B.

PART NO.	Description	Remarks	Markets
FX608360	MYLAR FILM CAP	0.0033uF 50V C739,740	1205960051
UA654330	MYLAR FILM CAP	0.033uF 50V C735,736	1105910103
UA654390	MYLAR FILM CAP	0.039uF 50V C737,738	1105960153
FX607990	MYLAR FILM CAP	0.047uF 50V C741-744	1145960001
FX608030	MYLAR FILM CAP	0.068uF 50V C43,44	1305910012
FX608040	MYLAR FILM CAP	0.082uF 50V C18	1305910013
UA555100	MYLAR FILM CAP	0.1uF 50V C259,260,267,268, 287-290	1305910048
FX608010	MYLAR FILM CAP	0.22uF 50V C236,237,263,264	1255910008
FX608020	MYLAR FILM CAP	0.33uF 50V C265,266	1305910015
VF760000	ELECTROLYTIC CAP	100uF 10V C233	1135900105
VJ836900	ELECTROLYTIC CAP	10uF 16V C211,227,228	1165900160
VJ836900	ELECTROLYTIC CAP	10uF 16V C815,816	1165900160
FX607760	ELECTROLYTIC CAP	10uF 16V C701,702,707,708,711 712,715,716,719,720, 731,732,750,751	1305900204
FX607760	ELECTROLYTIC CAP	10uF 16V	
FX607790	ELECTROLYTIC CAP	22uF 16V C271,272	1105900375
FX607770	ELECTROLYTIC CAP	22uF 16V C747,748,758,759	1305900399
UJ737330	ELECTROLYTIC CAP	33uF 16V C207,208	1165900164
VJ837200	ELECTROLYTIC CAP	47uF 16V C213,214,253,819,821	1125900226
VJ837200	ELECTROLYTIC CAP	47uF 16V C809,810	1125900226
FX604970	ELECTROLYTIC CAP	1000uF 25V C247	1135900110
UJ167330	ELECTROLYTIC CAP	33uF 35V C852,856	1105900243
FX607980	ELECTROLYTIC CAP, NP	47uF 35V C285	1105940137
FX607810	ELECTROLYTIC CAP	470uF 35V C238,239	1125900253
UM215100	ELECTROLYTIC CAP	0.1uF 50V C223,224	1165900152
FX607740	ELECTROLYTIC CAP	0.1uF 50V C709,710,729,730, 745-747	1305900259
VJ838800	ELECTROLYTIC CAP	0.22uF 50V C219,220	1125900249
VJ839000	ELECTROLYTIC CAP	0.47uF 50V C283	1255900061
VJ839100	ELECTROLYTIC CAP	1uF 50V C201,202	1165900153
VJ839200	ELECTROLYTIC CAP	2.2uF 50V C231	1255900081
FX607780	ELECTROLYTIC CAP	4.7uF 50V C749	1305900479
UM417100	ELECTROLYTIC CAP	10uF 50V C205,206,215,216,244 245,251,252,256, 823-826,831,832	1125900251
UM417100	ELECTROLYTIC CAP	10uF 50V C803,804,817,818	1125900251
U1367220	ELECTROLYTIC CAP	22uF 50V C286,210A	1425900037
UJ167330	ELECTROLYTIC CAP	33uF 50V C284	1125900271
UJ667470	ELECTROLYTIC CAP	47uF 50V C242,243,279,280	1125900252
FX607800	ELECTROLYTIC CAP	4700uF 50V C254,255	1105900381
iX631670	DIODE	1S119	D201-207,212,213,801 701-703,802
iX614950	DIODE	11ES1	D209-211
iX604440	DIODE	S4VB20	D208
iX631750	ZENER DIODE	HZS12CL1	ZD203,204
iX631760	ZENER DIODE	HZS4CL1	ZD852
iX631790	ZENER DIODE	HZS6LB1	ZD206
iX631840	ZENER DIODE	HZS6LC1	ZD851
iX631800	ZENER DIODE	HZS7BL2	ZD201,202,801,802
iX631660	IC	RH-IX2081AFZZ	Q212
XH471A00	IC	M5218AL	IC201,204,701-704, 707,803

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MAIN AMP/POWER SUPPLY P. C. B.

PART NO.	Description	Remarks	Markets
XH471A00	IC	M5218AL IC801	1105730324 HBAW
iX631590	IC	RH-IX1215AFZZ IC202,203	1125730103
iX631640	IC	RH-IX2034AFZZ IC205	1105730455
iX631930	IC	STK4165M IC206	1105730458
iX631880	IC	M5238AL IC207	1105730464
iX631940	PHOTO TRANSISTOR	SPS4201 IC705	1105690005
iX631620	IC	RH-IX1973AFZZ IC706,802	1105730427
iX614570	IC	LB1641 IC851,852	1105730171
iX632030	DIGITAL TRANSISTOR	DTC114YS Q205,207,209,851	1105760107
iX615430	DIGITAL TRANSISTOR	DTA114YS Q201-204,206,208, 703-710	1105760113
iX632160	TRANSISTOR	2SC2878B Q701,702	1165760096
iX632170	TRANSISTOR	2SC3199GR Q216	1305760513
iX632090	TRANSISTOR	2SB1185F Q211	1305760450
iX632190	TRANSISTOR	2SD1858R3 Q214,215	1255760110
iX614690	TRANSISTOR	2SD2061E Q210	1305760458
iX631960	LED	SLR34DC LED701-709,851	1105740111
HX607060	METAL OXIDE FILM RESISTOR	0.2Ω 3W R261A,262A	1105800186
HX607310	METAL OXIDE FILM RESISTOR	2.2Ω 3W R849,850	RR-SZ1062AFZZ U
HX607080	METAL OXIDE FILM RESISTOR	6.8Ω 3W R852	1105800189
HX607070	METAL OXIDE FILM RESISTOR	560Ω 3W R211A-214A	1105800187
HG103470	CARBON FILM RESISTOR	4.7Ω 1/2W R257A,258A	1125810292
HG309470	CARBON FILM RESISTOR	4.7MΩ 1/2W R201	1125810274 UC
HX607260	FUSING RESISTOR	22Ω 1/4W R858	1305810408
HX607270	FUSING RESISTOR	33Ω 1/4W R219A	1305810426
HX607250	FUSING RESISTOR	100Ω 1/4W R266A,267A	1125810214
HX607160	PRE-SET POTENTIOMETER	100KΩ (B) VR851	1106700316
HX607100	POTENTIOMETER	10KΩ (MN) VR703	1106700315
HX607090	POTENTIOMETER	100KΩ (B) VR701,702	1106720067
QX600690	CERAMIC RESONATOR	2MHz XL201	1105790013
KX602550	SWITCH	SW701,702	1105300368
KX603950	SWITCH	VR852	1105300497
GX603400	COIL	100uH L201	1305850009
GX606630	COIL	1.2uH	1126140028 W
LX608060	TERMINAL	TM201	1105320082
KX603960	RELAY	RLY201	1126370033
LX608050	PIN JACK	S0801	1265270011
LX608020	JACK	J701	1105170097
LX608030	LUG	K201,202	1125200026 HB
KX603900	FUSE	3.2A 125V F201	1105150067 UC
KX603840	FUSE	1A 250V F201	1305150057 HB
KX603890	FUSE	2A 125V F202,203,204	1105150071 UC
KX603860	FUSE	2A 250V F202,203,204	1125150103 HB
KX603850	FUSE	1.6A 250V F205	1125150105 HB
LX603970	FUSE HOLDER	FH201-210	1105160009
LX607600	PLUG	CNP201	1165100101
LX607680	PLUG	15P CNP202	1105100529
LX607630	PLUG	13P CNP203	1105100306
LX602770	PLUG	4P CNP204	1305100366
LX607640	SOCKET	8P CNP701	1125100204
LX607650	SOCKET	12P CNP702	1105100526
LX607670	PLUG	15P CNP801	1105100469
LX607700	PLUG	10P CNP802	1105100533

MAIN AMP/POWER SUPPLY/DECK P. C. B.

PART NO.	Description			Remarks	Markets	
LXG07710	PLUG	12P		CNP803	1105100534	
LXG05600	PLUG	2P		CNP851	1425100028	
LXG07690	PLUG	6P		CNP852	1105100598	
LXG07800	PLUG	10P		CNS201	1105100541	
LXG07810	PLUG	12P		CNS202	1105100542	
LXG07760	CONNECTOR			CNS203	1105100538	
LXG07750	CONNECTOR			CNS204	1125100205	
LXG07770	SOCKET	6P		CNS701	1105100603	
LXG07840	CONNECTOR ASS'y			BI201	1105122081	
LXG07820	CONNECTOR ASS'y			BI851	1105121742	
LXG08140	CONNECTOR ASS'y	5-5		CN200	QCWNW6105AFZZ	R
LXG08010	CONNECTOR ASS'y			CN201	1105122104	UC
LXG08000	CONNECTOR ASS'y	4-4PIN		FW701	1105122097	
LXG07830	CONNECTOR ASS'y			FW851	1105122080	
CXG73890	HOLDER, SOUND LED				1102140418	
CXG73880	HOLDER, FUNCTION LED				1102140417	
CXG74170	SPACER				1104130263	
CXG74160	SHIELD				1104080165	
LXG07550	SHIELD, PIN JACK				1104080167	
LXG07110	VOLTAGE SELECTOR				1105270085	R
NXG11300	P.C.B. ASS'y, DECK				DCEKU0149AF03	HBRAUCJ
NXG11860	P.C.B. ASS'y, DECK				DCEKU0149AF06	W
NXG11310	P.C.B. ASS'y, DECK KEY				DCEKZ0746AF03	
FXG08080	CERAMIC CAP	100pF	50V	C326, 516-518	1305950320	
FXG08110	CERAMIC CAP	150pF	50V	C323	1305950296	
FXG08120	CERAMIC CAP	220pF	50V	C405, 406, 409, 410, 441 442, 475, 476	1305950297	
FXG08130	CERAMIC CAP	270pF	50V	C434, 435	1305950298	
FXG08140	CERAMIC CAP	330pF	50V	C401, 402, 407, 408	1305950299	
FXG08150	CERAMIC CAP	390pF	50V	C426, 427	1305950300	
FXG08160	CERAMIC CAP	470pF	50V	C447	1305950301	
FXG08170	CERAMIC CAP	560pF	50V	C443, 444	1305950302	
FXG08180	CERAMIC CAP	680pF	50V	C411, 412	1305950303	
FXG08280	CERAMIC CAP	0.01uF	50V	C331-334	1205950010	
FXG07840	CERAMIC CAP	0.047uF	50V	C320	1425800092	
FXG08300	CERAMIC CAP	0.047uF	50V	C318	1205950008	
FXG08400	CHIP MULTILAYER CERAMIC CAP	0.0022uF	16V	C430	1105900308	
FXG08420	CHIP MULTILAYER CERAMIC CAP	0.01uF	16V	C329, 330	1305900681	
FXG08370	CHIP MULTILAYER CERAMIC CAP	0.0015uF	16V	C321, 322	1305900674	
UD114220	CHIP MULTILAYER CERAMIC CAP	0.022uF	25V	C308, 312, 316, 327, 446	1305900689	
UD111330	CHIP MULTILAYER CERAMIC CAP	33pF	50V	C324, 325	1305930532	
FXG08480	SEMI-CONDUCTIVE CERAMIC CAP	0.0022uF	25V	C492, 493, 496-499	1165900124	
FXG08500	SEMI-CONDUCTIVE CERAMIC CAP	0.0047uF	25V	C424, 425	1205900093	
FXG08450	SEMI-CONDUCTIVE CERAMIC CAP	0.015uF	25V	C420, 421	1205900090	
FSG84220	SEMI-CONDUCTIVE CERAMIC CAP	0.022uF	25V	C429	1125900163	
FSG84330	SEMI-CONDUCTIVE CERAMIC CAP	0.033uF	25V	C418, 419	1205900088	
FXG08310	POLYPROPYLENE FILM CAP	0.01uF	100V	C448	1305960080	
FA153330	MYLAR FILM CAP	0.0033uF	50V	C451, 452	1165960075	
FXG08350	MYLAR FILM CAP	0.0047uF	50V	C453	1165960026	
FA154150	MYLAR FILM CAP	0.015uF	50V	C449	1165960022	

DECK P. C. B.

PART NO.	Description	Remarks	Markets
FX608000	MYLAR FILM CAP	0.1uF 50V C301,304	1305910006
VJ837200	ELECTROLYTIC CAP	47uF 10V C473,474	1165900158
VF760000	ELECTROLYTIC CAP	100uF 10V C403,404	1165900141
VJ628470	ELECTROLYTIC CAP	470uF 10V C303	1105900176
VJ836900	ELECTROLYTIC CAP	10uF 16V C302,305-307,310,311	1165900160
VJ836900	ELECTROLYTIC CAP	10uF 16V 314,414,415,450,454, 471,472,477,478,482, 504,505,514,515,520	
UM407220	ELECTROLYTIC CAP	22uF 16V C416	1155900065
VJ837200	ELECTROLYTIC CAP	47uF 16V C316,426,433,481,494	1125900226
VF964800	ELECTROLYTIC CAP	100uF 16V C315,455,456,483,521	1135900106
UJ648220	ELECTROLYTIC CAP	220uF 16V C413	1305900438
FX604970	ELECTROLYTIC CAP	1000uF 25V C313,317	1135900110
FX607740	ELECTROLYTIC CAP	0.1uF 50V C500-503	1305900259
VJ838800	ELECTROLYTIC CAP	0.22uF 50V C445,508,509	1125900249
VJ839000	ELECTROLYTIC CAP	0.47uF 50V C431	1255900061
FX607750	ELECTROLYTIC CAP	1uF 50V C484,485,510,512	1305900196
VJ839100	ELECTROLYTIC CAP	1uF 50V C309,432,486-489,511	1165900153
VJ839200	ELECTROLYTIC CAP	2.2uF 50V C328	1255900081
UM416470	ELECTROLYTIC CAP	4.7uF 50V C417,422,423	1165900157
iX631670	DIODE	1SS119 D302-305,307-310,441	1305700156
iX614950	DIODE	11ES1 D301,306,312-315	1305700227
iH001300	DIODE	S2VB40F D311	1125700079
iX631820	ZENER DIODE	HZ6B2L ZD301,303	1305710023
iX631730	ZENER DIODE	HZS12AL3 ZD304	1105710104
iX631740	ZENER DIODE	HZS12BL3 ZD306	1105710117
iX631790	ZENER DIODE	HZS6LB1 ZD305	1115710040
iX631810	ZENER DIODE	HZS9BL2 ZD302	1105710135
iX631630	IC	RH-IX2033AFZZ IC301	1105730454
iX614490	IC	BA3416BL IC401	1125730186
iX614530	IC	LA2000 IC402	1165730151
iX607110	IC	M51544AL IC471	1305730228
iX631850	IC	HA12155 IC472	1105730457
iX632030	DIGITAL TRANSISTOR	DTC114YS Q318,319,324,401-404	1105760107
iX632050	DIGITAL TRANSISTOR	DTC144ES Q457	1425760021
iX615430	DIGITAL TRANSISTOR	DTA114YS Q325,327-333,448	1105760113
iX632120	TRANSISTOR	2SC1740SR Q405,406,441,442	1165760118
iX632130	TRANSISTOR	2SC2001L Q452,453	1165760114
iX632140	TRANSISTOR	2SC2240BL Q443-446	1165760052
iX614750	TRANSISTOR	2SC1959Y Q305,307,315,317	1115760042
iX632170	TRANSISTOR	2SC3199GR Q321,323,447,471,472	1305760513
iX614670	TRANSISTOR	2SA1048GR Q454	1305760348
iX614740	TRANSISTOR	2SA562Y Q301,302,306,311,312	1165760020
iX632080	TRANSISTOR	2SA933SR Q308,309	1105760106
iX632100	TRANSISTOR	2SB1237R3 Q304,314	1125760284
iX614760	TRANSISTOR	2SD2061F Q310,320,322	1105760125
iX632190	TRANSISTOR	2SD1858R3 Q303,313,326,455,456	1255760110
iX631960	LED	SLR34DC LED303-305	1105740111

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DECK P. C. B.

PART NO.	Description	Remarks	Markets
iX631970	LED	SLR34MC	LED301,302,306,307 1105740102
RA250000	CHIP JUMPER	0Ω 1/8W	1305810847
HX607170	CHIP RESISTOR	1Ω 1/8W	R451 1305810864
HX607180	CHIP RESISTOR	10Ω 1/8W	R466 1305810836
RA254560	CHIP RESISTOR	56Ω 1/8W	R401,402 1305810881
RA255100	CHIP RESISTOR	100Ω 1/8W	R313,314,441,442 1305810848
RA255270	CHIP RESISTOR	270Ω 1/8W	R487,488 1305810840
RA255330	CHIP RESISTOR	330Ω 1/8W	R300,316 1305810842
RA255470	CHIP RESISTOR	470Ω 1/8W	R477,478 1305810877
RA255560	CHIP RESISTOR	560Ω 1/8W	R309,399,495,496 1305810882
RA256100	CHIP RESISTOR	1KΩ 1/8W	R336,337,353,355,357 1305810849
RA256100	CHIP RESISTOR	1KΩ 1/8W	359,361,363,365,367, 369,371,373,384-390, 395,427,428,443,444,
RA256100	CHIP RESISTOR	1KΩ 1/8W	549,550
RA256150	CHIP RESISTOR	1.5KΩ 1/8W	R481-484 1305810857
RA256180	CHIP RESISTOR	1.8KΩ 1/8W	R464,475,476 1305810861
RA256220	CHIP RESISTOR	2.2KΩ 1/8W	R303,305,308,319,321 1305810867
RA256270	CHIP RESISTOR	2.7KΩ 1/8W	R536 1305810870
RA256330	CHIP RESISTOR	3.3KΩ 1/8W	R306,307,322,323,380 1305810872
RA256330	CHIP RESISTOR	3.3KΩ 1/8W	409,410,417,418,423, 424,454
RA256390	CHIP RESISTOR	3.9KΩ 1/8W	R403,404,407,408,447 1305810875
RA256470	CHIP RESISTOR	4.7KΩ 1/8W	448
RA256560	CHIP RESISTOR	5.6KΩ 1/8W	R547 1305810878
RA256820	CHIP RESISTOR	8.2KΩ 1/8W	R425,433,434,489,490 1305810883
RA257100	CHIP RESISTOR	10KΩ 1/8W	541,542
RA257100	CHIP RESISTOR	10KΩ 1/8W	R310,315,445,446,499 1305810889
RA257100	CHIP RESISTOR	10KΩ 1/8W	500
RA257100	CHIP RESISTOR	10KΩ 1/8W	R302,304,318,320,341 1305810850
RA257100	CHIP RESISTOR	10KΩ 1/8W	350,354,356,358,360, 362,364,366,368,370, 372,374-377,381,382, 421,422,430,435,452, 543,544
RA257120	CHIP RESISTOR	12KΩ 1/8W	R459,460 1305810854
RA257150	CHIP RESISTOR	15KΩ 1/8W	R467,505,506 1305810858
RA257180	CHIP RESISTOR	18KΩ 1/8W	R449,450,510 1305810862
RA257220	CHIP RESISTOR	22KΩ 1/8W	R411,414,493,494,535 1305810868
RA257270	CHIP RESISTOR	27KΩ 1/8W	R518
RA257330	CHIP RESISTOR	33KΩ 1/8W	R311,312,513 1305810873
RA257390	CHIP RESISTOR	39KΩ 1/8W	R512,525 1305810844
RA257470	CHIP RESISTOR	47KΩ 1/8W	R351,471,472,479,480 1305810879
HX607210	CHIP RESISTOR	51KΩ 1/8W	491,492,519,520,531
RA257560	CHIP RESISTOR	56KΩ 1/8W	R532 1305810991
RA257680	CHIP RESISTOR	68KΩ 1/8W	R463,534 1305810884
RA257820	CHIP RESISTOR	82KΩ 1/8W	R325,326,473,474,521 1305810887
RA258100	CHIP RESISTOR	100KΩ 1/8W	530,533
RA258100	CHIP RESISTOR	100KΩ 1/8W	R405,406,517,524,528 1305810890
RA258100	CHIP RESISTOR	100KΩ 1/8W	R338-340,343-349,501 1305810851
RA258100	CHIP RESISTOR	100KΩ 1/8W	502,511,514-516,523, 526,527,301A

DECK/TUNER P. C. B.

PART NO.	Description	Remarks			Markets
RA258100	CHIP RESISTOR	120K Ω	1/8W	R522	1305810855
RA258150	CHIP RESISTOR	150K Ω	1/8W	R419, 420, 431, 529	1305810859
RA259100	CHIP RESISTOR	1M Ω	1/8W	R352	1305810852
HXG07190	CHIP RESISTOR	1.8M Ω	1/8W	R485	1305810986
HXG07230	CARBON FILM RESISTOR	39 Ω	1/2W	R461	1425810063
HXG07300	METAL OXIDE FILM RESISTOR	68 Ω	1W	R462	1105800188
HXG07280	FUSE RESISTOR	2.2 Ω	1/4W	R317, 335	1105810568
HXG07290	FUSE RESISTOR	3.9 Ω	1/4W	R457, 458	1305810834
HXG07240	FUSE RESISTOR	10 Ω	1/4W	R469	1305810407
HXG07270	FUSE RESISTOR	33 Ω	1/4W	R328, 537	1305810426
HXG07110	PRE-SET POTENTIOMETER	4.7K Ω		VR302, 304	1306700651
HXG03820	PRE-SET POTENTIOMETER	10K Ω		VR301, 303	1206700185
HXG03830	PRE-SET POTENTIOMETER	47K Ω		VR401-404, 441, 442, 471, 472	1306700640
KXG01940	SWITCH			SW301-314	1305301178
KXG03930	SWITCH			SW315, 316	1105300466
KXG03940	SWITCH			SW317	1105300467
GXG03400	COIL	100uH		L301, 444	1305850009
GXG03370	COIL	6.8mH		L401, 402	1306140201
GXG07580	OSCILLATION COIL			L443	1106070087
GXG03240	COIL	47mH		L441, 442	1106140060
LXG07790	PLUG	15P		CNP301	1105100540
LXG07660	CONNECTOR			CNP302	1105100606
LXG02780	PLUG	9P		CNP303	1425100092
LXG02690	PLUG	10P		CNP304	1105100284
LXG02770	PLUG	4P		CNP401	1305100366
LXG02700	PLUG	8P		CNP441	1425100118
LXG07580	PLUG			TP301, 471	1305100045
LXG07590	PLUG			TP441	1105100054
LXG07910	CONNECTOR ASS'y			FW301	1105122088
LXG07850	CONNECTOR ASS'y			FW302	1105122082
LXG07860	CONNECTOR ASS'y			FW303	1105122083
LXG07920	CONNECTOR ASS'y			FW304	1105122089
LXG07890	CONNECTOR ASS'y			CNS401	1105122086
LXG07900	CONNECTOR ASS'y			CNS441	1105122087
LXG07880	CONNECTOR ASS'y			BI301	1105122085
LXG07870	CONNECTOR ASS'y			BI302	1105122084
BXG02390	HEAT SINK, DECK				1103970141
AXG17430	SPECIAL SCREW	3x8			1309700100
HXG11090	P. C. B. ASS'y, TUNER				DCEKRO397AFC3 HB
HXG11100	P. C. B. ASS'y, TUNER				DCEKRO399AFC3 U
HXG11780	P. C. B. ASS'y, TUNER				DCEKRO402AFC6 R
HXG11790	P. C. B. ASS'y, TUNER				DCEKRO402AFC3 A
HXG11800	P. C. B. ASS'y, TUNER				DCEKRO397AFC6 W
HXG11810	P. C. B. ASS'y, TUNER				DCEKRO399AFC6 C
FG244220	CERAMIC CAP	0.022uF	25V	C674, 616A	1305900596
FXG07960	CERAMIC CAP	22pF	50V	C668	1105930216 UC
FXG07940	CERAMIC CAP	27pF	50V	C667	1105930258 HBW
FXG07950	CERAMIC CAP	27pF	50V	C668	1125930079 HBRAWJ
FXG06810	CERAMIC CAP	30pF	50V	C672, 673	1135930061

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TUNER P. C. B.

PART NO.	Description	Remarks	Markets
FXG08080	CERAMIC CAP	100pF 50V C611,669,675,676	1305950320
FXG08110	CERAMIC CAP	150pF 50V C601,629	1305950296
FG212390	CERAMIC CAP	390pF 50V C647,648	VCCSPA1HL391J HBW
FXG07920	CERAMIC CAP	470pF 50V C617A	1205930050
FG212680	CERAMIC CAP	680pF 50V C647,648	VCCSPA1HL681J RAJ
FXG08090	CERAMIC CAP	0.001uF 50V C644,678	1305950295
FXG08300	CERAMIC CAP	0.047uF 50V C659,671,681	1205950008
FXG07840	CERAMIC CAP	0.047uF 50V C697,607A	1425800092
FG245100	CERAMIC CAP	0.1uF 50V C603A	1305900745
FXG08390	CHIP MULTILAYER CERAMIC CAP	0.0022uF 16V C600,630,677	1305900685
FXG08420	CHIP MULTILAYER CERAMIC CAP	0.01uF 16V C612	1305900681
UD114220	CHIP MULTILAYER CERAMIC CAP	0.022uF 25V C607-609,613-616,619 622-624,628,641,660, 682,686,693,606A	1305900689 HBW
UD114220	CHIP MULTILAYER CERAMIC CAP	0.022uF 25V C661	1305900689 HBW
VJ900100	CHIP MULTILAYER CERAMIC CAP	18pF 50V C664	1105930241
VJ900100	CHIP MULTILAYER CERAMIC CAP	18pF 50V C665	1105930241 HBW
FXG08440	SEMI-CONDUCTIVE CERAMIC CAP	0.0033uF 16V C651,652	1165900176
FS684470	SEMI-CONDUCTIVE CERAMIC CAP	0.047uF 16V C645	1305900648
FS783100	SEMI-CONDUCTIVE CERAMIC CAP	0.001uF 25V C618A	1125900161
FXG08530	SEMI-CONDUCTIVE CERAMIC CAP	0.0015uF 25V C647,648	1105900131 UC
VF467300	CERAMIC TUBULAR CAP	0.01uF 16V C620	1305900500
FXG08320	POLYSTYRENE FILM CAP	220pF 50V C666	1205960034 HBW
FXG04390	POLYSTYRENE FILM CAP	470pF 50V C662	1305960021
FXG08330	POLYSTYRENE FILM CAP	680pF 50V C663	1135960009 HBW
FXG07820	ELECTROLYTIC CAP	4700uF 6.3V C658	1135900108
VJ836900	ELECTROLYTIC CAP	10uF 16V C618,631,633,643,646 653-656,609A,610A	1165900160
VJ837200	ELECTROLYTIC CAP	47uF 16V C657,680,683-685, 605A	1125900226
VF964800	ELECTROLYTIC CAP	100uF 16V C621,640,670	1135900106
FXG07970	ELECTROLYTIC CAP	10uF 25V C699	1255940009
UJ648100	ELECTROLYTIC CAP	100uF 25V C698	1305900430
FXG04980	ELECTROLYTIC CAP	2200uF 25V C696,602A	1105900188
FXG07830	ELECTROLYTIC CAP	4700uF 25V C601A	1305900589
UM215100	ELECTROLYTIC CAP	0.1uF 50V C634	1165900152
VJ838800	ELECTROLYTIC CAP	0.22uF 50V C638	1125900249
VJ839100	ELECTROLYTIC CAP	1uF 50V C610,617,627,632,637 639,642,649,650,679, 692	1165900153
VJ839100	ELECTROLYTIC CAP	1uF 50V 692	
VJ839200	ELECTROLYTIC CAP	2.2uF 50V C626	1255900081
UM416470	ELECTROLYTIC CAP	4.7uF 50V C625,694,695	1165900157
UM417100	ELECTROLYTIC CAP	10uF 50V C687-691	1125900251
FXG04650	VARIABLE CAPACITOR DIODE	KV1236Z23F VD600,601	1105700058
iXG31670	DIODE	1SS119 D600,601,605,606, 615-618	1305700156
iXG14950	DIODE	11ES1 D607-614	1305700227
iXG31720	ZENER DIODE	HZS11CL1 ZD605	1105710151 HBCRAWJ
iXG32570	ZENER DIODE	HZS11BL2 ZD605	VHEZS11BL2-1 U
iXG31740	ZENER DIODE	HZS12BL3 ZD602	1105710117 HBCRAWJ
iXG31730	ZENER DIODE	HZS12AL3 ZD602	1105710104 U
iXG31780	ZENER DIODE	HZS6AL1 ZD600	1105710110
iXG31860	IC	LA1266A IC600	1105730404

TUNER P. C. B.

PART NO.	Description	Remarks	Markets
iG158100	IC	LA3401	IC601 1135730091
iG142600	IC	LM7000	IC602 1125730150
iX631590	IC	RH-IX1215AFZZ	IC603 1125730103
iX607470	IC	M5278L56	IC604 1305730387
iG087600	IC	M5230L	IC605 1255730115
iX632030	DIGITAL TRANSISTOR	DTC114YS	Q616,620,623,626,627 1105760107
iX632050	DIGITAL TRANSISTOR	DTC144ES	Q601,602,613-615 1425760021
iX632050	DIGITAL TRANSISTOR	DTC144ES	Q608 1425760021
iX615430	DIGITAL TRANSISTOR	DTA114YS	Q609,610 1105760113
iX615430	DIGITAL TRANSISTOR	DTA114YS	Q607 1105760113
iX632120	TRANSISTOR	2SC1740SR	Q604-606 1165760118
iX632110	TRANSISTOR	2SC1740LSR1	Q611 1305760405
iX632170	TRANSISTOR	2SC3199GR	Q618,625 1305760513
iX632180	TRANSISTOR	2SC3800	Q600 1205760003
iX616950	TRANSISTOR	2SB1185E	Q622 1125760279
iX614690	TRANSISTOR	2SD2061E	Q617,621,624 1305760458
RA250000	CHIP JUMPER	0 Ω	1/8W 1305810847
RA254820	CHIP RESISTOR	82 Ω	1/8W R616 1305810903
RA255100	CHIP RESISTOR	100 Ω	1/8W R605,616A 1305810848
RA255150	CHIP RESISTOR	150 Ω	1/8W R654 1305810856
RA255220	CHIP RESISTOR	220 Ω	1/8W R607,640 1305810866
RA255330	CHIP RESISTOR	330 Ω	1/8W R606,676 1305810842
RA255330	CHIP RESISTOR	330 Ω	1/8W R614A 1305810842
RA255470	CHIP RESISTOR	470 Ω	1/8W R655 1305810877
RA256100	CHIP RESISTOR	1K Ω	1/8W R618,619,638,639,677 1305810849
RA256100	CHIP RESISTOR	1K Ω	1/8W 667-669,678,683,695, 691-693,698,601A, 607A
RA256100	CHIP RESISTOR	1K Ω	1/8W R663 1305810849
RA256120	CHIP RESISTOR	1.2K Ω	1/8W R672 1305810837
RA256220	CHIP RESISTOR	2.2K Ω	1/8W R673,675 1305810867
RA256270	CHIP RESISTOR	2.7K Ω	1/8W R613 1305810870
RA256330	CHIP RESISTOR	3.3K Ω	1/8W R631,699 1305810872
RA256390	CHIP RESISTOR	3.9K Ω	1/8W R625,690 1305810875
RA256470	CHIP RESISTOR	4.7K Ω	1/8W R617 1305810878
RA256560	CHIP RESISTOR	5.6K Ω	1/8W R614,629 1305810883
RA256560	CHIP RESISTOR	5.6K Ω	1/8W R657,659,660 1305810883
RA257100	CHIP RESISTOR	10K Ω	1/8W R612,615,622,623,650 1305810850
RA257100	CHIP RESISTOR	10K Ω	1/8W 651,653,681,694,696, R603A 1305810850
RA257220	CHIP RESISTOR	22K Ω	1/8W R609 1305810868
RA257220	CHIP RESISTOR	22K Ω	1/8W R621 1305810868
RA257270	CHIP RESISTOR	27K Ω	1/8W R627 1305810871
RA257330	CHIP RESISTOR	33K Ω	1/8W R632 1305810873
RA257680	CHIP RESISTOR	68K Ω	1/8W R610,662 1305810887
RA258100	CHIP RESISTOR	100K Ω	1/8W R656,661,664-666,697 1305810851
RA258100	CHIP RESISTOR	120K Ω	1/8W 604A,605A R634,635 1305810855
RA258220	CHIP RESISTOR	220K Ω	1/8W R644-649 1305810869
RA258470	CHIP RESISTOR	470K Ω	1/8W R604 1305810896
RA259100	CHIP RESISTOR	1M Ω	1/8W R686 1305810852
HX607220	CARBON FILM RESISTOR	150 Ω	1/2W R674 1125810305
HG305560	CARBON FILM RESISTOR	560 Ω	1/2W R679,680 1125810293

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TUNER P. C. B.

PART NO.	Description	Remarks	Markets
HX607120	PRE-SET POTENTIOMETER	100K Ω (B) VR600	1256700081
HX607280	FUSE RESISTOR	2.2 Ω 1/4W R682,610A	1105810568
GX607610	FM IF (CERAMIC FILTER)	CF600,601	1106210043
GX606650	FM IF (CERAMIC FILTER)	CF600,601	1136210024
QX600680	CERAMIC RESONATOR	CF602	1126160005
PX601690	FM FRONT END	FE600	1105500020
PX601550	FM FRONT END	FE600	1105500021
KX601930	SWITCH	SW600	1305300614
KX603990	SWITCH	SW601	1105300499
GX607550	ANTENNA COIL	T600	1106060094
GX607540	ANTENNA COIL	T601	1106060093
GX607570	OSCILLATION COIL	T602	1106070081
GX607560	OSCILLATION COIL	T603	1106070080
GX607590	DETECTOR COIL	T604	1106080018
GX607600	AM IF (COIL WITH FILTER)	T605	1106210042
LX608120	ANTENNA BALUN	T606	RBLN-0057AFZZ
FX604800	TRIMMER CAP	TC600	1106450005
GX607620	TRIMMER CAP	TC601	1116450052
LX608090	TERMINAL	TM600	1105320053
QX600420	CRYSTAL	7.2MHz XL600	1106160012
KX603910	SWITCH		1305301319
GX603220	L.P.FILTER	L601,602	1256140011
GX603400	COIL	100uH L605,606	1305850009
GX607660	COIL	2.2uH L603,604	1105850008
LX608070	TERMINAL	SO600	1125320066
KX603870	FUSE	630mA 250V F600,601	1125150098
KX603880	FUSE	1A 125V F600,601	1105150070
LX603970	FUSE HOLDER	FH600-603	1105160009
LX607730	SOCKET	19P CNP601	1105100601
LX607790	PLUG	15P CNP603	1105100540
LX607950	CONNECTOR ASS'y	8-8PIN BI601	1105122092
LX607990	CONNECTOR ASS'y	3-3PIN BI602	1105122096
LX608150	CONNECTOR ASS'y	2-2PIN BI603	1105122111
AX617430	SPECIAL SCREW	3x8	1309700100
BX602410	HEAT SINK, CD/TUN		1103970156

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CC-5

EXPLODED VIEW (A-CC5)

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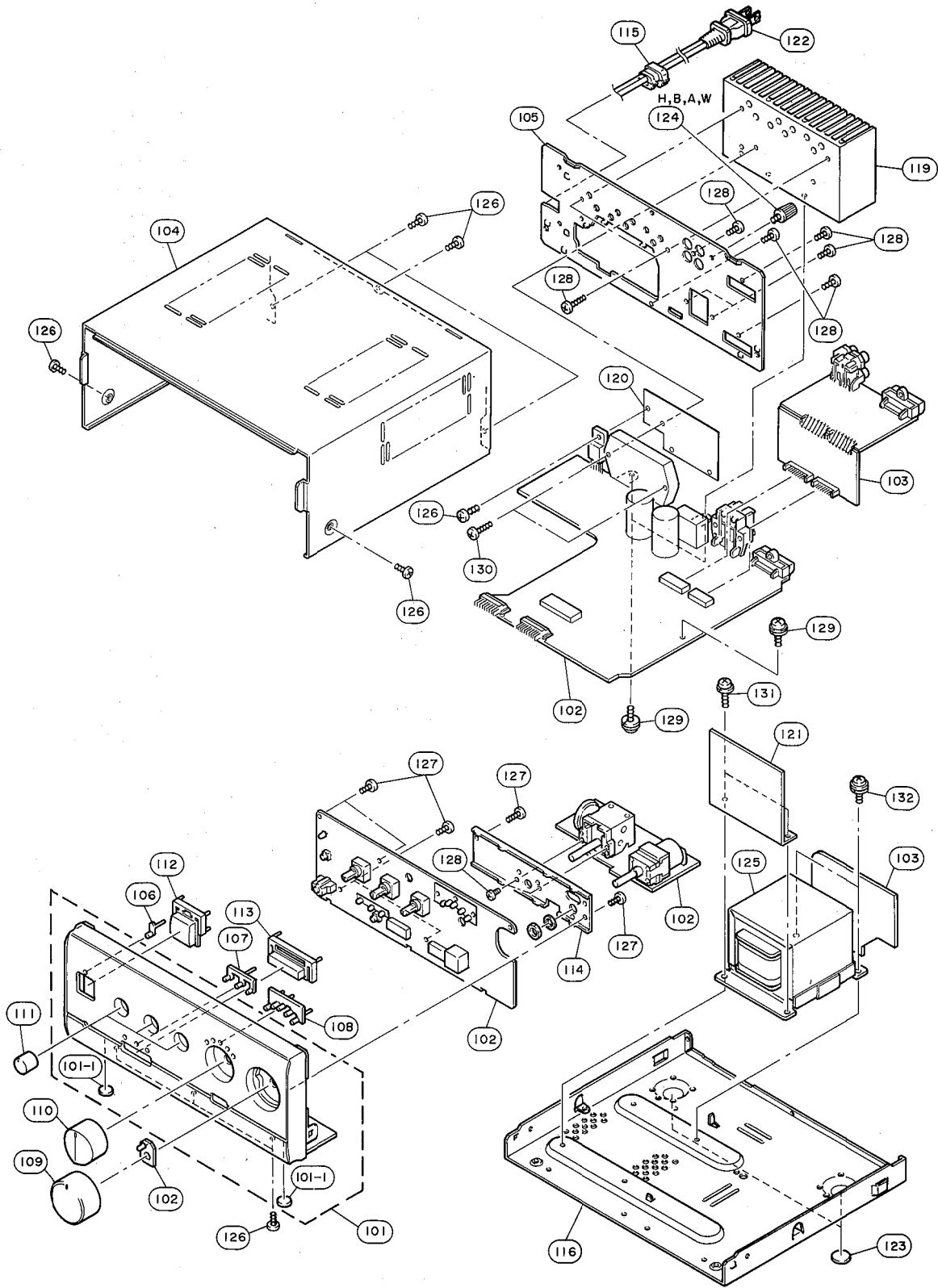
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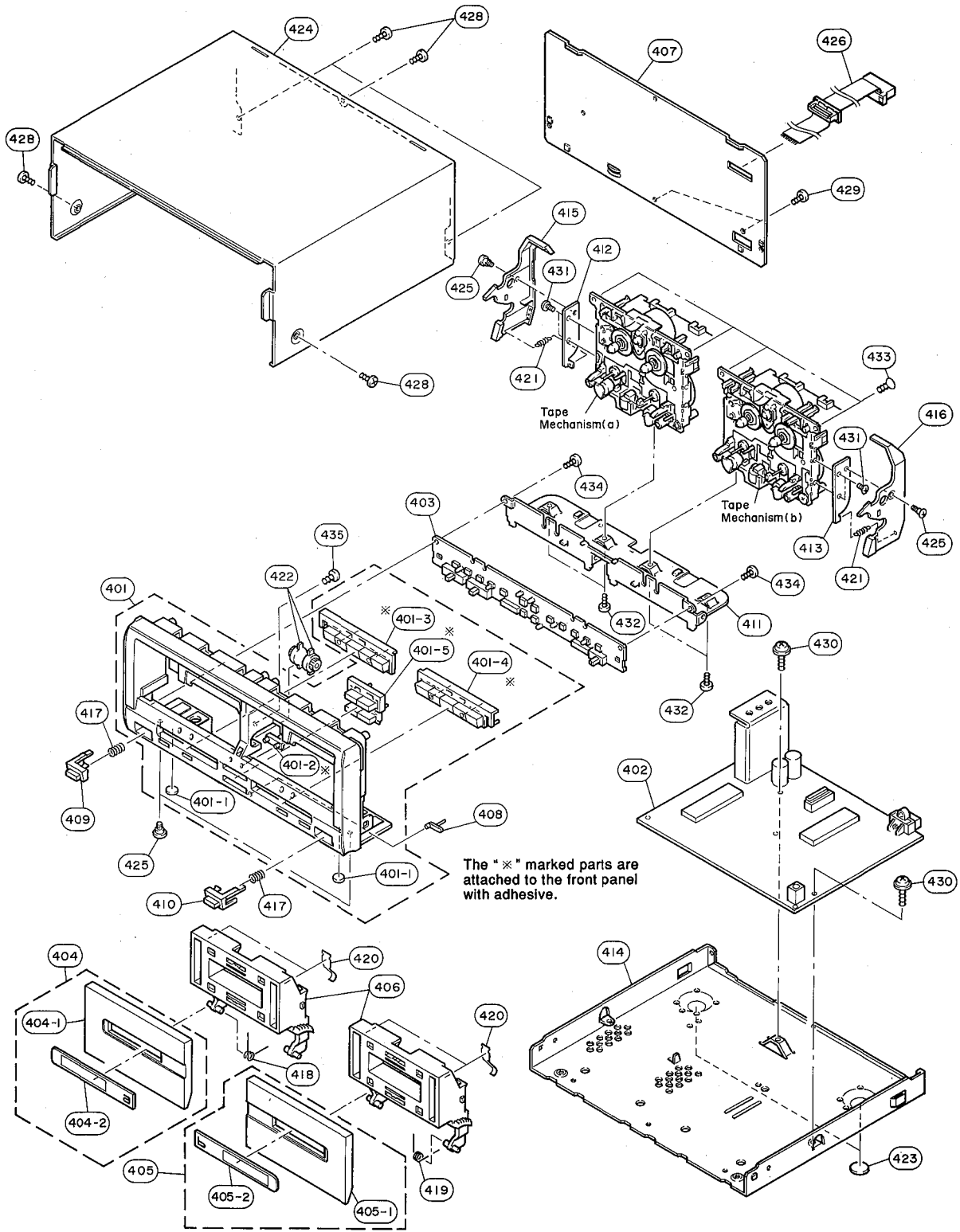
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CC-5

EXPLODED VIEW (K-CC5)



MECHANICAL PARTS

Ref. NO.	PART NO.	Description	Remarks	Markets
401	NX611050	FRONT PANEL, DECK	CPNLC2357AF01	
401-1	CX674100	CUSHION	1103260247	
402	NX611300	P.C.B. ASS'y, DECK	DCEKU0149AF03	HBRAUCJ
402	NX611860	P.C.B. ASS'y, DECK	DCEKU0149AF06	W
403	NX611310	P.C.B. ASS'y, DECK KEY	DCEKZ0746AF03	
404	CX673440	COVER, CASSETTE T1	CCOVA2044AF01	
404-1	CX673520	COVER, CASSETTE T1	1101100530	
404-2	CX673660	WINDOW, CASSETTE T1	1101540839	
405	CX673450	COVER, CASSETTE T2	CCOVA2045AF01	
405-1	CX673530	COVER, CASSETTE T2	1101100531	
405-2	CX673670	WINDOW, CASSETTE T2	1101540840	
406	CX673550	HOLDER, CASSETTE	1101170593	
407	CX673580	DECK REAR PANEL	1101170599	H
407	CX673610	DECK REAR PANEL	1101170596	BARC
407	CX673640	DECK REAR PANEL	1101170602	U
407	AX179000	DECK REAR PANEL	1101170614	W
408	CX673710	COVER, LED REC	1101540846	
409	CX673800	BUTTON, CASSETTE EJECT T1	1101741320	
410	CX673810	BUTTON, CASSETTE EJECT T2	1101741321	
411	AX617120	FIXING METAL	1102000981	
412	AX617130	FIXING METAL T1	1102000982	
413	AX617140	FIXING METAL T2	1102000983	
414	AX617200	CHASSIS DECK	1102070223	
415	AX617270	LOCK LEVER T1	1102520018	
416	AX617280	LOCK LEVER T2	1102520019	
417	CX673920	SPRING, EJ BUTTON	1102580797	
418	AX617300	SPRING	1102580794	
419	AX617310	SPRING	1102580795	
420	AX617330	SPRING	1102580798	
421	AX605830	SPRING	1202580393	
422	CX673910	DAMPER	1302500023	
423	CX674120	FELT	1103400103	
424	NX611340	DECK CABINET	1101070212	
425	AX617210	SPECIAL SCREW	3MM	1169720002
426	MX604290	SYSTEM CABLE	15P	1105122077
428	AX617450	SPECIAL SCREW	3x8	1169700163
431	AX617390	SPECIAL SCREW		1309700414
432	AX617410	SPECIAL SCREW		1109700350
433	AX617470	SPECIAL SCREW		1109700356
434	AX617440	SPECIAL SCREW	3x14	XESSD30P14000
435	AX617370	SPECIAL SCREW		1429700072
436	CX611670	WIRE HOLDER	60MM	1112140028

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C

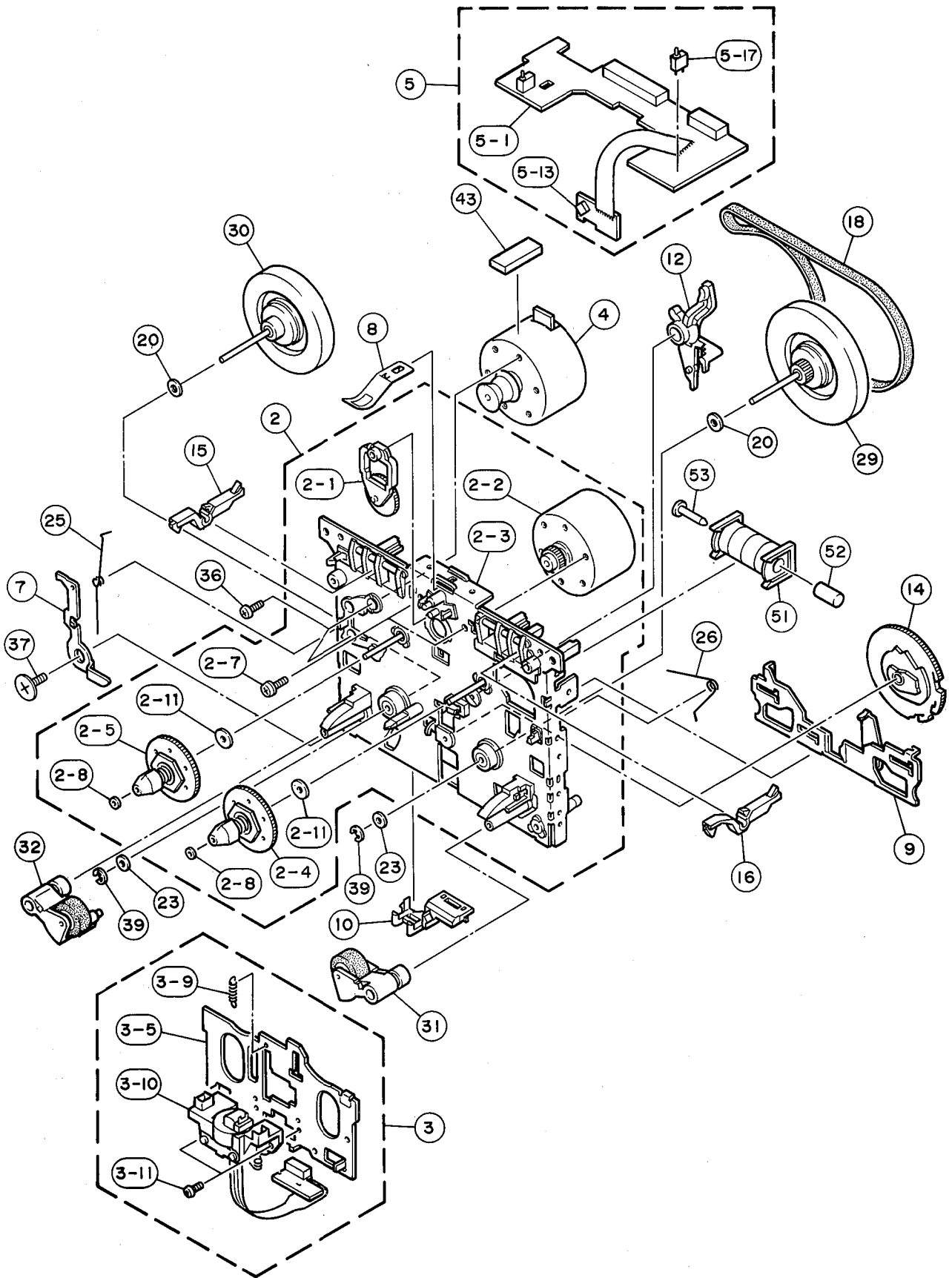
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CC-5

EXPLODED VIEW

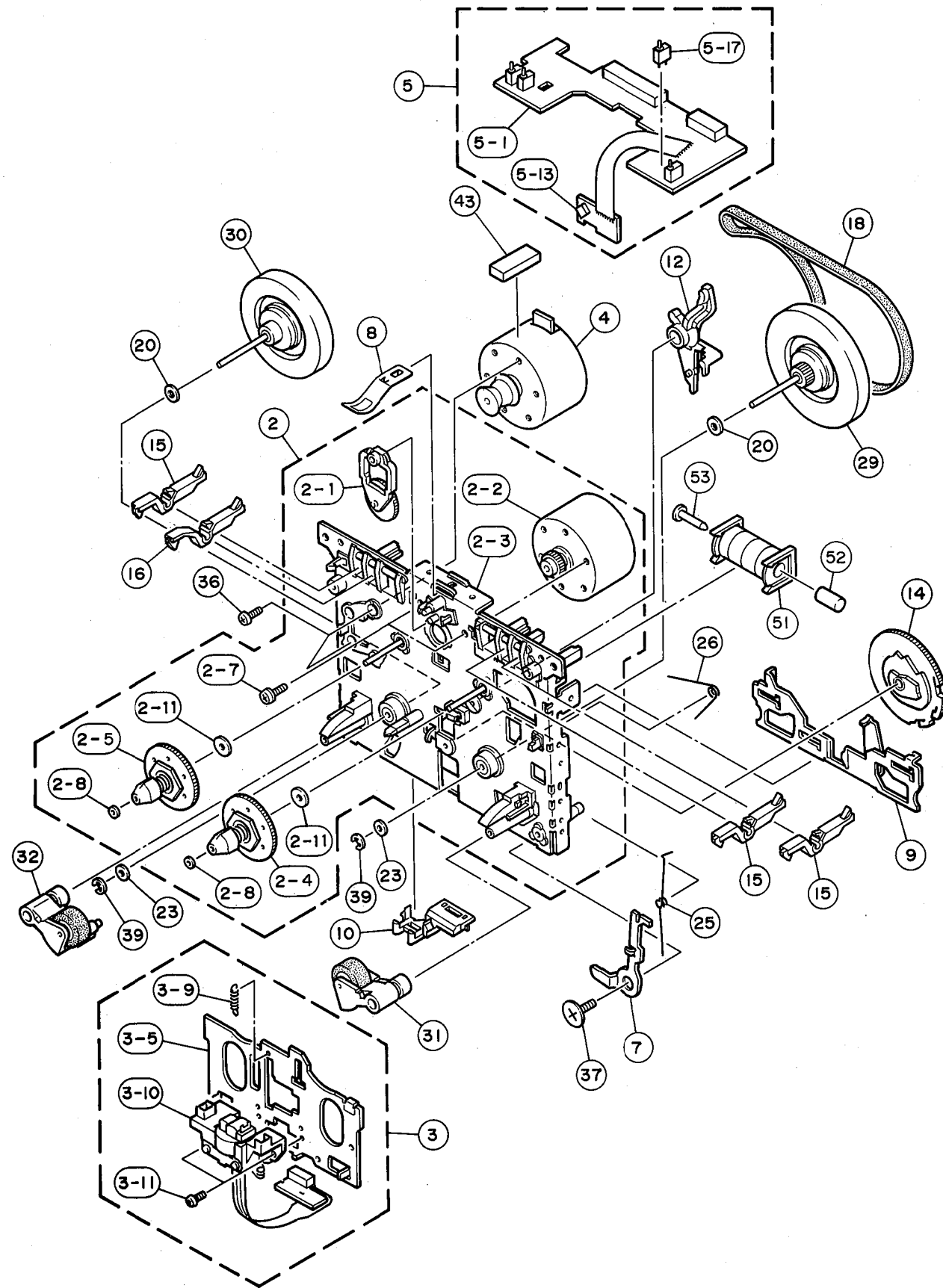
DECK a



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1 ■ EXPLODED VIEW

● DECK b



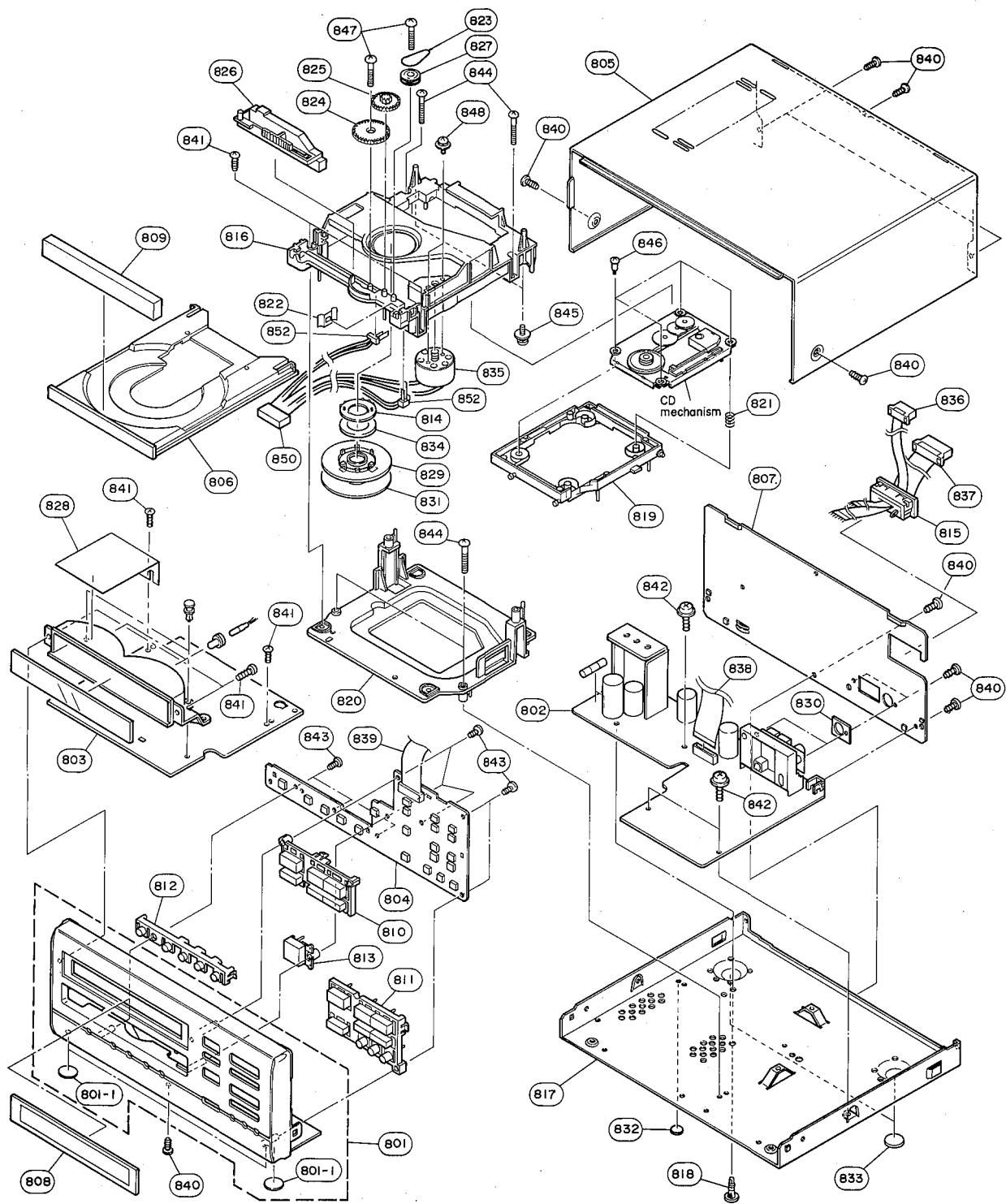
1 ■ MECHANICAL PARTS

Ref. NO.	PART NO.	Description	Remarks	Markets
	NX611210	CASSETTE DECK MECHANISM	b	KMECC0203AF00
	NX611220	CASSETTE DECK MECHANISM	a	KMECC0204AF00
2	NX611230	CHASSIS ASS'y		F511417
2-1	AX605120	IDLER ASS'y		F517049
2-2	JX600660	REEL MOTOR		F564280
2-3	NX604220	CHASSIS BASE ASS'y		F612146
2-4	NX604230	REEL BASE ASS'y (R)		F623040
2-5	AX605160	REEL BASE ASS'y (L)		F623127
2-7	AX616980	PAN HEAD SCREW		FG15611A
2-8	XX636610	WASHER		FJ11117
2-11	XX641850	WASHER		UJ12V11
3	NX604250	HEAD BASE ASS'y	b	F513470
3	NX604260	HEAD BASE ASS'y	a	F513471
3-5	AX616990	HEAD BASE		FC52E36
3-9	AX617000	SPRING, HEAD BASE		FK26N14
3-10	GX607520	HEAD (REC/PB)	b	FU18V61
3-10	GX607530	HEAD (PB)	a	FU19H61
3-11	AX617010	PAN HEAD TAPPING SCREW		UG19D11
4	JX600630	MAIN MOTOR		F525256
5	NX611240	PCB CONTROL	b	F567384
5	NX611250	PCB CONTROL	a	F567463
5-13	IX631580	SENSOR		AW13G00
5-17	KX602010	PUSH SWITCH		UE16E11
7	CX612050	EJECT ARM (R)		FC39M68
7	CX612060	EJECT ARM (L)		FC39L70
8	AX608300	PLATE SPRING		FC52H13
9	AX608900	SLIDE PLATE		FC52F15
10	CX612070	HOLDER		FD45H15
12	CX673460	PLAY ARM		FD45G13
14	CX673470	CAM GEAR		FD45B16
15	AX611250	SENSOR LEVER, REC		FD44T14
16	CX673480	DETECT LEVER, PACK		FD44W12
18	CX673490	MAIN BELT		FF17G31
20	XX636810	WASHER		FJ11130
23	CX608740	WASHER		FJ11114
25	AX617020	SPRING		FK28L17
25	AX617030	SPRING		FK28M16
26	AX605650	SLIDE SPRING		FK28R11
29	NX604300	FLYWHEEL ASS'y		FR22D11
30	NX604310	FLYWHEEL ASS'y		FR22E13
31	NX606700	PINCH ROLLER ASS'y		FR20L21A
32	NX606710	PINCH ROLLER ASS'y		FR20M22
36	XX697410	PAN HEAD SCREW		FG11414
37	AX617040	SPECIAL SCREW		UG15S11A
39	AX605640	E-RING		UG13U15
43	CX615200	CUSHION		FF17C12
51	JX600430	SOLENOID ASS'y		F765263
52	AX611260	STEEL CORE		FL39H12A
53	JX600440	PLUNGER		FL39K12

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1 ■ EXPLODED VIEW (TCD-CC5)

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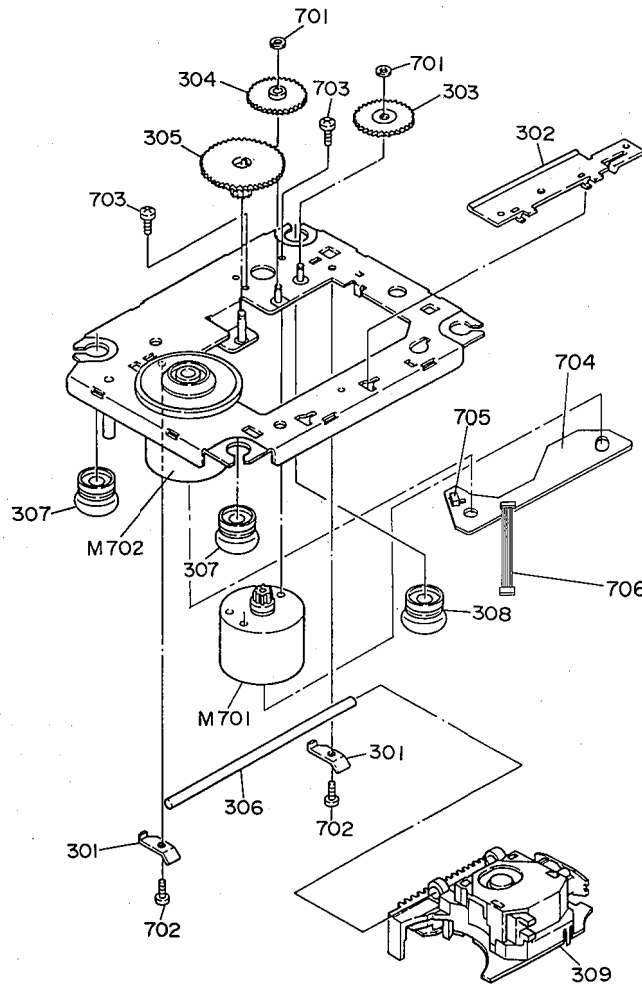
■ MECHANICAL PARTS

Ref. NO.	PART NO.	Description	Remarks	Markets
801	NX611080	FRONT PANEL, CD/TUNER	CPNLC2354AF01	
801-1	CX674090	CUSHION (RUBBER)	1103260160	
802	NX611090	P.C.B. ASS'y, TUNER	DCEKRO397AF03	HB
802	NX611100	P.C.B. ASS'y, TUNER	DCEKRO399AF03	U
802	NX611780	P.C.B. ASS'y, TUNER	DCEKRO402AF06	R
802	NX611790	P.C.B. ASS'y, TUNER	DCEKRO402AF03	A
802	NX611800	P.C.B. ASS'y, TUNER	DCEKRO397AF06	W
802	NX611810	P.C.B. ASS'y, TUNER	DCEKRO399AF06	C
803	NX611110	P.C.B. ASS'y, CD SERVO	DCEKS0088AF03	HBW
803	NX611120	P.C.B. ASS'y, CD SERVO	DCEKS0088AF06	UC
803	NX611830	P.C.B. ASS'y, CD SERVO	DCEKS0088AF12	R
803	NX611840	P.C.B. ASS'y, CD SERVO	DCEKS0088AF09	A
804	NX611130	P.C.B. ASS'y, CD SWITCH	DUNTZ0745AF03	
805	NX611320	CD/TUN CABINET	1101070210	
806	CX673510	TRAY	1301100804	
807	CX673590	CD REAR PANEL	1101170594	B
807	CX673560	CD REAR PANEL	1101170597	H
807	CX673620	CD REAR PANEL	1101170600	U
807	AX617800	CD REAR PANEL	1101170604	A
807	AX617810	CD REAR PANEL	1101170605	R
807	AX617820	CD REAR PANEL	1101170612	W
807	AX617830	CD REAR PANEL	1101170610	C
808	CX673650	WINDOW, LED	1101540838	
809	CX673720	PANEL, CD TRAY	1101580731	
810	CX673740	BUTTON, TUNER OPERATION	1101741314	
811	CX673750	BUTTON, CD OPERATION	1101741315	
812	CX673760	BUTTON, TIMER	1101741316	
813	CX673770	BUTTON, CD EJECT	1101741317	
814	AX617100	FIXING METAL	1302001249	
815	CX673820	BUSHING	1102040087	
816	AX617170	CHASSIS, LOADING	1302070504	
817	AX617180	CHASSIS CD/TUN	1102070221	
818	CX673840	HOLDER, PWB	1102140169	
819	CX673860	HOLDER	1302140886	
820	CX673870	HOLDER	1102140416	
821	AX617290	SPRING	1102580802	
822	AX617320	SPRING	1102580796	
823	CX673930	BELT	1302710373	
824	CX673980	GEAR	1302810279	
825	CX673990	GEAR	1302810280	
826	CX674000	GEAR	1302810291	
827	CX674010	PULLEY	1302840280	
828	CX674020	COVER	1103230257	
829	CX674030	COVER	1303230355	
830	CX615170	SPACER	1124130652	
831	CX674080	CUSHION (RUBBER)	1303260427	
832	CX674110	CUSHION	PCUSZ0166AFZZ	
833	CX674120	FELT	1103400103	
834	BX602380	MAGNET	1303730008	
835	JX601280	LOADING MOTOR	1306300441	
836	MX604300	SYSTEM CABLE	7P	1105122078
837	MX604310	SYSTEM CABLE	15P	1105122079
838	LX607940	CONNECTOR ASS'y	TUNER	1105122091

Ref. NO.	PART NO.	Description	Remarks	Markets	
839	LXG07930	CONNECTOR ASS'y	CD KEY	1105122090	
840	AXG17450	SPECIAL SCREW	3x8	1169700163	
841	AXG17380	SPECIAL SCREW	3x8	1109700468	
842	AXG05790	SPECIAL SCREW			
843	AXG17160	SPECIAL SCREW	3x10	XEBSD30P10000	
844	AXG17400	SPECIAL SCREW	3x18	1109700886	
845	AXG05800	SPECIAL SCREW	3x7	1309700569	
846	AXG17240	SPECIAL SCREW		1309701894	
847	AXG17360	SPECIAL SCREW	2.6x10	1309701593	
848	AXG17350	SCREW	2.6x6	1119700023	
849	LXG07980	CONNECTOR ASS'y		1105122095	
850	LXG07960	CONNECTOR ASS'y	6PIN	1105122093	
851	CXG11670	WIRE HOLDER	60MM	1112140028	
852	KXG03910	SWITCH		1305301319	
		ACCESSORIES			
	PXG01680	REMOTE CONTROL UNIT		1106380106	UCR
	PXG01670	REMOTE CONTROL UNIT		1106380105	HBAW
	CXG73540	LID,REMOTE CONTROL UNIT BATT		1101170548	
	LXG07560	LOOP ANTENNA		1105020013	
	LXG07570	WIRE ANTENNA		1105040011	

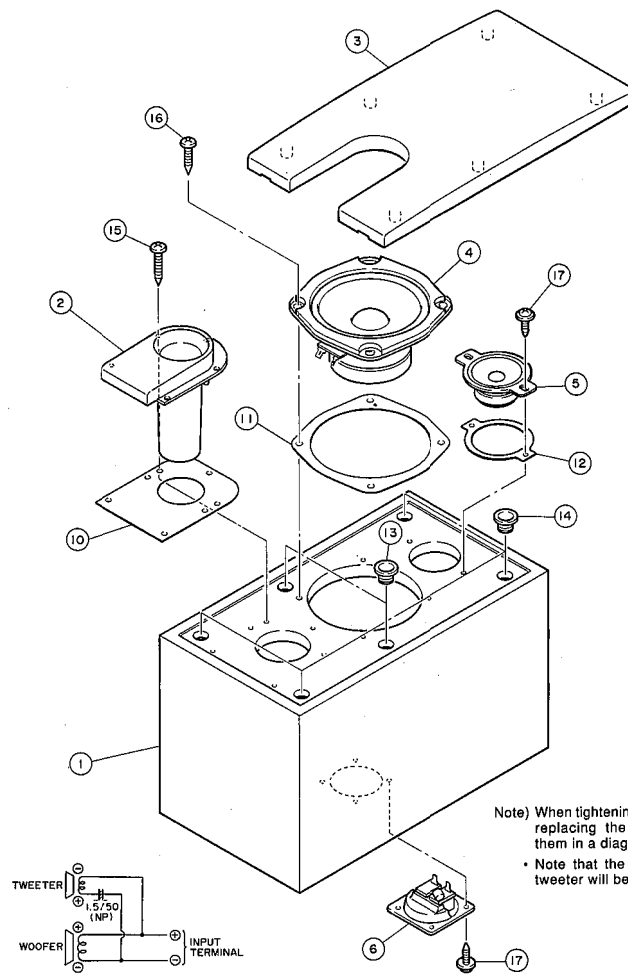
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1 ■ EXPLODED VIEW (CD Mechanism)



Ref. NO.	PART NO.	Description	Remarks	Markets
	NX611360	CD MECHANISM	KRPLE0085AF11	
301	AX617110	FIXING METAL	1302001251	
302	AX617260	LEVER	1302482064	
303	CX673950	GEAR	1302810276	
304	CX673960	GEAR	1302810277	
305	CX673970	GEAR	1302810278	
306	AX617340	SHAFT	1302900394	
307	CX674050	CUSHION	1303260490	
308	CX674060	CUSHION	1303260491	
309	PX601650	LASER PICK UP ASS'y	1106170101	
701	AX617250	SPECIAL WASHER	1109900280	
702	AX617420	SPECIAL SCREW	1109700311	
703	AX617480	SPECIAL SCREW	2x2.5 1189700027	
704	NX611370	P.W. BOARD	1105210584	
705	KX603920	SWITCH	1305301248	
706	LX607970	CONNECTOR ASS'y	4PIN 1105122094	
M701	JX601240	FEED MOTOR ASS'y	RMOTV0426AF01	
M702	JX601250	DISC MOTOR ASS'y	RMOTV0409AF01	

EXPLODED VIEW (NS-CC5)



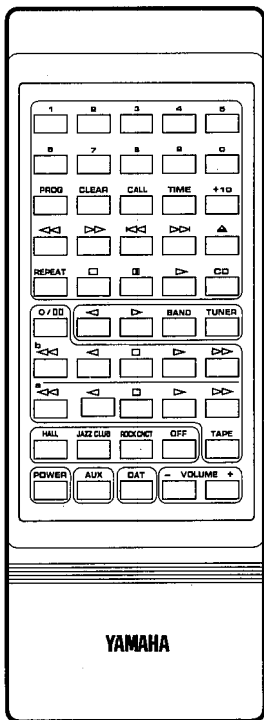
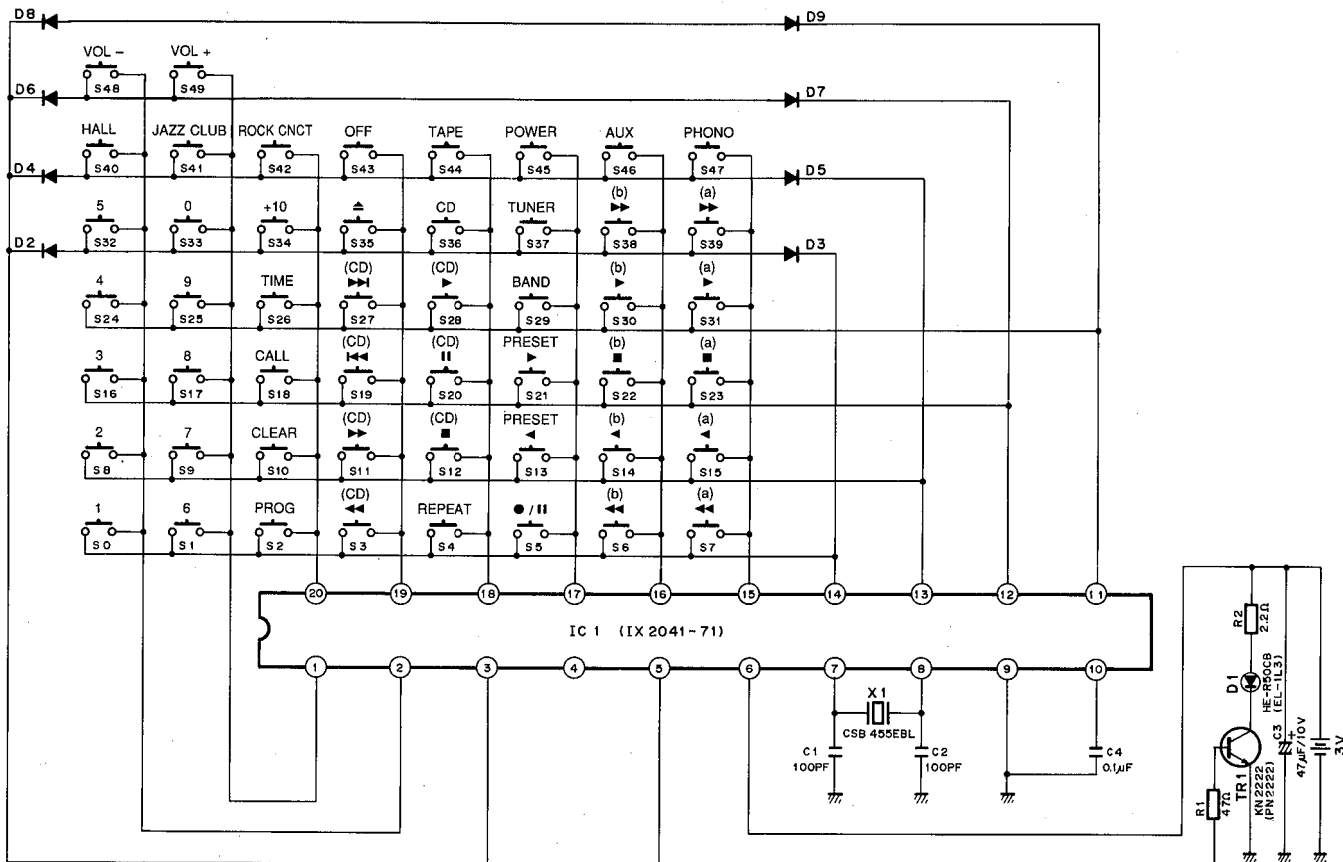
Ref. NO.	PART NO.	Description	Remarks	Markets
1	CX674180	CABINET	CBOXS6105AF01	
2	CX674190	PANEL, DUCT	HPNLS1075AFSA	
3	NX611380	GRILL ASS'y	CWAKP1281AF01	HRBCW
3	NX611390	GRILL ASS'y	CWAKP1281AF02	U
4	XJ823A00	SPEAKER WOOFER	12cM XJ823A0	
5	XJ824A00	SPEAKER TWEETER	5cM XJ824A0	
6	LX607100	INPUT TERMINAL	QTANA9011AFZZ	
9	FX608540	ELECTROLYTIC CAP, NP	RC-EZ1532AFZZ	
10	CX674200	PACKING RING, DUCT	PCUSS0545AFZZ	
11	CX672260	PACKING, WOOFER	PCUSS0510AFZZ	
12	CX672270	PACKING, TWEETER	PCUSS0511AFZZ	
13	CX674210	HOLDER, GRILL	LHLDZ8109AFZZ	
14	CX672280	HOLDER, GRILL	LHLDZ1547AFZZ	
15	AX617490	SCREW	4x20 XTBSF40P20000	
16	AX615610	SCREW	4x16 XTBSF40P16000	
17	AX615620	SCREW	3x16 LX-TZ0015AF00	
21	MX604320	SPEAKER WIRE	QC�WHO126AFZZ	

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REMOTE CONTROL TRANSMITTER

SCHEMATIC DIAGRAM

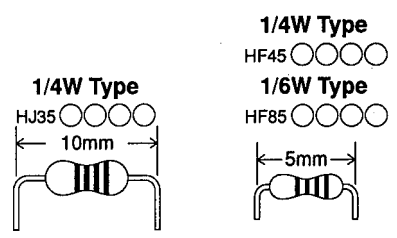
D2-D9. 1N4148 (1S2471)



KEY No.	DATA CODE	FUNCTION	MARKETS			KEY No.	DATA CODE	FUNCTION	MARKETS		
			H,B,A,W	R,U,C	J				H,B,A,W	R,U,C	J
0	1 0 0 0 0 0 0 0 0 10	1	o	o	o	25	1 0 0 1 0 0 0 0 10	9	o	o	o
1	0 1 1 0 0 0 0 0 0 10	6	o	o	o	26	1 1 1 0 1 1 0 0 10	TIME	o	o	o
2	1 1 0 0 0 1 0 0 0 10	PROG	o	o	o	27	0 0 0 1 1 1 0 0 10	(CD) >>>	o	o	o
3	1 1 1 1 0 0 0 0 1 10	(CD) <<<	o	o	o	28	1 1 1 1 1 1 0 0 10	(CD) >>>	o	o	o
4	0 0 1 1 0 1 0 0 1 0 10	REPEAT	o	o	o	29	0 1 1 0 1 0 1 1 0 10	BAND	o	o	o
5	0 0 0 1 0 1 0 1 0 1 10	● /	o	o	o	30	0 1 0 0 0 1 0 1 0 10	(b) >	o	o	o
6	1 1 0 0 0 1 0 1 0 1 10	(b) <<<	o	o	o	31	0 1 0 0 0 1 0 0 1 0 10	(a) >	o	o	o
7	1 1 0 0 0 1 0 1 0 1 10	(a) <<<	o	o	o	32	1 0 1 0 0 0 0 0 0 10	5	o	o	o
8	0 1 0 0 0 0 0 0 0 0 10	2	o	o	o	33	0 1 0 1 0 0 0 0 0 10	0	o	o	o
9	1 1 1 0 0 0 0 0 0 0 10	7	o	o	o	34	1 1 0 1 0 0 0 0 0 1 10	+10	o	o	o
10	0 0 0 0 1 1 0 0 1 0 10	CLEAR	o	o	o	35	1 1 0 1 0 1 0 1 0 0 10	▲	o	o	o
11	0 1 1 1 0 0 0 0 1 1 10	(CD) >>>	o	o	o	36	1 1 0 1 1 0 0 0 1 0 10	CD	o	o	o
12	1 0 0 1 0 1 0 1 0 0 10	(CD) ■	o	o	o	37	1 0 0 1 1 0 0 0 1 0 10	TUNER	o	o	o
13	0 1 0 0 1 0 0 1 0 0 0 10	PRESET <	o	o	x	38	1 0 0 0 0 1 0 1 0 1 10	(b) >>>	o	o	o
14	0 0 1 0 0 1 0 1 0 1 0 10	(b) <	o	o	o	39	1 0 0 0 0 1 0 1 0 0 10	(a) >>>	o	o	o
15	0 0 1 0 0 1 0 0 1 0 0 10	(a) <	o	o	o	40	0 1 0 0 1 1 0 1 0 1 10	HALL	o	o	o
16	1 1 0 0 0 0 0 0 0 0 10	3	o	o	o	41	1 1 0 0 1 1 0 1 0 1 10	JAZZ CLUB	o	o	o
17	0 0 0 1 0 0 0 0 0 0 10	8	o	o	o	42	0 0 1 0 1 0 1 0 1 0 10	ROCK CNCT	o	o	o
18	1 1 1 1 0 1 0 1 0 0 1 0 10	CALL	o	o	o	43	1 0 0 0 1 1 0 1 0 1 10	OFF	o	o	o
19	0 0 0 0 0 1 0 0 1 0 0 10	(CD) <<<	o	o	o	44	0 1 0 1 1 0 0 0 1 0 0 10	TAPE	o	o	o
20	0 1 1 0 0 1 0 0 1 0 0 10	(CD)	o	o	o	45	0 1 1 0 1 0 0 0 1 0 0 10	POWER	o	o	o
21	1 0 0 0 1 0 0 0 1 0 0 10	PRESET >	o	o	x	46	1 0 1 1 1 0 0 0 1 0 0 10	AUX	o	o	o
22	1 1 1 0 0 1 0 1 0 1 0 10	(b) ■	o	o	o	47	0 0 1 1 1 0 0 0 1 0 0 10	PHONO	o	DAT	DAT
23	1 1 1 0 0 1 0 1 0 1 0 10	(a) ■	o	o	o	48	1 0 1 0 1 0 0 0 1 0 0 10	VOL -	o	o	o
24	0 0 1 0 0 0 0 0 0 0 10	4	o	o	o	49	0 0 1 0 1 0 0 0 1 0 0 10	VOL +	o	o	o
CUSTOM CODE			0 1 0 0 1			CUSTOM CODE			0 1 0 0 1		

Parts List for Carbon Resistors

Value	1/4W Type Part No.	1/6W Type Part No.	Value	1/4W Type Part No.	1/6W Type Part No.
1.0 Ω	HJ35 3100	HF85 3100	10 kΩ	HF45 7100	HF45 7100
1.8 Ω	HJ35 3180	*	11 kΩ	HF45 7110	HF45 7110
2.2 Ω	HJ35 3220	HF85 3220	12 kΩ	HJ35 7120	HF85 7120
3.3 Ω	HJ35 3330	HF85 3330	13 kΩ	HF45 7130	HF45 7130
4.7 Ω	HJ35 3470	HF85 3470	15 kΩ	HF45 7150	HF45 7150
5.6 Ω	HJ35 3560	HF85 3560	18 kΩ	HF45 7180	HF45 7180
10 Ω	HF45 4100	HF45 4100	22 kΩ	HF45 7220	HF45 7220
15 Ω	HJ35 4150	HF85 4150	24 kΩ	HF45 7240	HF45 7240
22 Ω	HF45 4220	HF45 4220	27 kΩ	HJ35 7270	HF85 7270
27 Ω	HJ35 4270	HF85 4270	30 kΩ	HF45 7300	HF45 7300
33 Ω	HF45 4330	HF45 4330	33 kΩ	HF45 7330	HF45 7330
39 Ω	HJ35 4470	HF85 4390	36 kΩ	HF45 7360	HF45 7360
47 Ω	HF45 4470	HF45 4470	39 kΩ	HF45 7390	HF45 7390
56 Ω	HF45 4560	HF45 4560	47 kΩ	HF45 7470	HF45 7470
68 Ω	HF45 4680	HF45 4680	51 kΩ	HF45 7510	HF45 7510
75 Ω	HF45 4750	HF45 4750	56 kΩ	HF45 7560	HF45 7560
82 Ω	HF45 4820	HF45 4820	62 kΩ	HF45 7620	HF45 7620
91 Ω	HF45 4910	HF45 4910	68 kΩ	HF45 7680	HF45 7680
100 Ω	HF45 5100	HF45 5100	82 kΩ	HF45 7820	HF45 7820
110 Ω	HJ35 5110	HF85 5110	91 kΩ	HF45 7910	HF45 7910
120 Ω	HF45 5120	HF45 5120	100 kΩ	HF45 8100	HF45 8100
150 Ω	HF45 5150	HF45 5150	110 kΩ	HF45 8110	HF45 8110
160 Ω	HJ35 5160	*	120 kΩ	HF45 8120	HF45 8120
180 Ω	HF45 5180	HF45 5180	150 kΩ	HF45 8150	HF45 8150
200 Ω	HF45 5200	HF45 5200	180 kΩ	HF45 8180	HF45 8180
220 Ω	HF45 5220	HF45 5220	220 kΩ	HJ35 8220	HF85 8220
270 Ω	HF45 5270	HF45 5270	270 kΩ	HF45 8270	HF45 8270
330 Ω	HF45 5330	HF45 5330	300 kΩ	HF45 8300	HF45 8300
390 Ω	HF45 5390	HF45 5390	330 kΩ	HF45 8330	HF45 8330
430 Ω	HF45 5430	HF45 5430	390 kΩ	HJ35 8390	HF85 8390
470 Ω	HF45 5470	HF45 5470	470 kΩ	HF45 8470	HF45 8470
510 Ω	HF45 5510	HF45 5510	560 kΩ	HJ35 8560	HF85 8560
560 Ω	HF45 5560	HF45 5560	680 kΩ	HJ35 8680	HF85 8680
680 Ω	HF45 5680	HF45 5680	820 kΩ	HJ35 8820	HF85 8820
820 Ω	HF45 5820	HF45 5820	1.0 MΩ	HF45 9100	HF45 9100
910 Ω	HF45 5910	HF45 5910	1.2 MΩ	HJ35 9120	*
1.0 kΩ	HF45 6100	HF45 6100	1.5 MΩ	HJ35 9150	HF85 9150
1.2 kΩ	HF45 6120	HF45 6120	1.8 MΩ	HJ35 9180	HF85 9180
1.5 kΩ	HF45 6150	HF45 6150	2.2 MΩ	HJ35 9220	HF85 9220
1.8 kΩ	HF45 6180	HF45 6180	3.3 MΩ	HJ35 9330	HF85 9330
2.0 kΩ	HJ35 6200	HF85 6200	3.9 MΩ	HJ35 9390	*
2.2 kΩ	HF45 6220	HF45 6220	4.7 MΩ	HJ35 9470	HF85 9470
2.4 kΩ	HJ35 6240	HF85 6240			
2.7 kΩ	HF45 6270	HF45 6270			
3.0 kΩ	HF45 6300	HF45 6300			
3.3 kΩ	HF45 6330	HF45 6330			
3.6 kΩ	HJ35 6360	HF85 6360			
3.9 kΩ	HF45 6390	HF45 6390			
4.7 kΩ	HF45 6470	HF45 6470			
5.1 kΩ	HF45 6510	HF45 6510			
5.6 kΩ	HF45 6560	HF45 6560			
6.8 kΩ	HF45 6680	HF45 6680			
8.2 kΩ	HF45 6820	HF45 6820			
9.1 kΩ	HF45 6910	HF45 6910			



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YAMAHA
