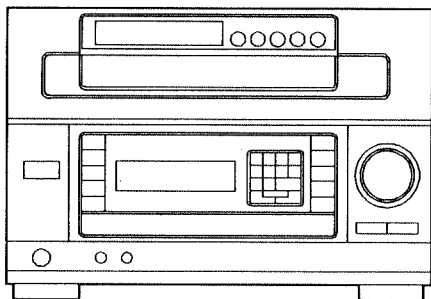


aiwa



AV-X300



COMPACT DISC STEREO RECEIVER

• BASIC CD MECHANISM: 6ZG-1 DF

• TYPE :U.HE.HR.EEZ.EZ.K

MANUAL SERVICE

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PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

WARNING!!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylitävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

ATTENTION

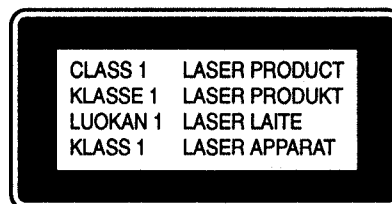
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the rear exterior.

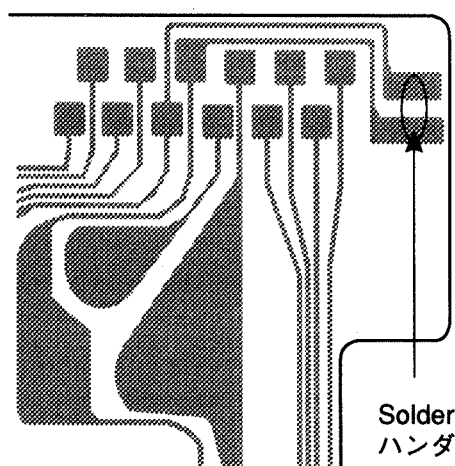


Precaution to replace Optical block (KSS-213B)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in the right figure.

PICK-UP Assy P.C.B



SPECIFICATIONS

< U >

FM tuner section

Tuning range 87.5 MHz to 108 MHz
Usable sensitivity (IHF) 13.2 dBf
Antenna terminals 75 ohms (unbalanced)

AM tuner section

Tuning range 530 kHz to 1710 kHz (10 kHz step),
 531 kHz to 1602 kHz (9 kHz step)
Usable sensitivity 350 μ V/m
Antenna Loop antenna

Amplifier section

Power output **[Stereo Mode]**
Front
 120 watts per channel, Min. RMS at 8 ohms, from 40 Hz to 20 kHz, with no more than 0.8% Total Harmonic Distortion
[Dolby Pro Logic Mode]
Front
 100 watts per channel, Min. RMS at 8 ohms, from 40 Hz to 20 kHz, with no more than 0.8% Total Harmonic Distortion
Rear (Surround)
 50 watts per channel, Min. RMS at 16 ohms, 1 kHz, with no more than 0.8% Total Harmonic Distortion
Center
 100 watts, Min. RMS at 8 ohms, 1kHz, with no more than 0.8% Total Harmonic Distortion
Total harmonic distortion 0.08 % (105 W, 1 kHz, 8 ohms, Front)
Inputs AUDIO IN
 PHONO: 2.8 mV (50 kohms)
 TAPE MONITOR: 200 mV (25 kohms)
 VIDEO 1, VIDEO 2/LD/MD, VIDEO 3, AUX/TV: 250 mV (50 kohms)
Outputs VIDEO IN: 1 Vp-p (75 ohms)
 MIC1, MIC2: 1 mV (20 kohms)
 AUDIO OUT (REC OUT): 200 mV (2 kohms)
 VIDEO OUT (MONITOR): 1 Vp-p (75 ohms)
 SUPER WOOFER: 3.1 V
 FRONT SPEAKERS IMP: 8 Ω (front speakers A and B): accepts speakers of 8 ohms or more
 SURROUND SPEAKERS IMP: 16 Ω (surround speakers): accepts speakers of 16 ohms or more
 CENTER SPEAKER IMP: 8 Ω : accepts a speaker of 8 ohms or more
 PHONES (stereo jack): accepts headphones of 32 ohms or more
 CD DIGITAL OUT (OPTICAL)
Muting -20 dB

Compact disc player section

Laser Semiconductor laser ($\lambda = 780$ nm)
D-A converter 1 bit dual
Signal-to-noise ratio 82 dB (1 kHz, 0 dB)
Harmonic distortion 0.05 % (1 kHz, 0 dB)
Wow and flutter Unmeasurable

General

Power requirements 120 V AC, 60 Hz
Power consumption 150 W
Dimensions 360 $\times$ 265 $\times$ 330.5 mm (14 $\frac{1}{4}$ $\times$ 10 $\frac{1}{2}$ $\times$ 13 $\frac{1}{8}$ in.)
Weight 11.6 kg (25 lb 9 oz.)

- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
- "DOLBY" the double-D symbol  and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.
- The word "BBE" and the "BBE symbol" are trademarks of BBE Sound, Inc.
- Under license from BBE Sound, Inc.

< HE, HR >

FM tuner section

Tuning range 87.5 MHz to 108 MHz
Usable sensitivity (IHF) 13.2 dBf
Antenna terminals 75 ohms (unbalanced)

AM tuner section

Tuning range 531 kHz to 1602 kHz (9 kHz step)
 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity 350 μ V/m
Antenna Loop antenna

Amplifier section

Power output **[Stereo Mode]**
Front
 Rated: 120 W + 120 W
 (8 ohms, T.H.D. 1 %, 1 kHz)
 Reference: 140 W + 140 W
 (8 ohms, T.H.D. 10 %, 1 kHz)
[Dolby Pro Logic Mode]
Front
 Rated: 100 W + 100 W
 (8 ohms, T.H.D. 1 %, 1 kHz)
 Reference: 120 W + 120 W
 (8 ohms, T.H.D. 10 %, 1 kHz)
Rear (Surround)
 Rated: 50 W + 50 W
 (16 ohms, T.H.D. 1 %, 1 kHz)
 Reference: 60 W + 60 W
 (16 ohms, T.H.D. 10 %, 1 kHz)
Center
 Rated: 100 W
 (8 ohms, T.H.D. 1 %, 1 kHz)
 Reference: 120 W
 (8 ohms, T.H.D. 10 %, 1 kHz)
Total harmonic distortion 0.08 % (105 W, 1 kHz, 8 ohms, Front)
Inputs AUDIO IN
 PHONO: 2.8 mV (50 kohms)
 TAPE MONITOR: 200 mV (25 kohms)
 VIDEO 1, VIDEO 2/LD/MD, VIDEO 3, AUX/TV: 250 mV (50 kohms)
 VIDEO IN: 1 Vp-p (75 ohms)
 MIC1, MIC2: 1 mV (20 kohms)

Outputs	AUDIO OUT (REC OUT): 200 mV (2 kohms)
	VIDEO OUT (MONITOR): 1 Vp-p (75 ohms)
	SUPER WOOFER: 3.1 V
	FRONT SPEAKERS IMP: 8 Ω (front speakers A and B): accepts speakers of 8 ohms or more
	SURROUND SPEAKERS IMP: 16 Ω (surround speakers): accepts speakers of 16 ohms or more
	CENTER SPEAKER IMP: 8 Ω : accepts a speaker of 8 ohms or more
	PHONES (stereo jack): accepts headphones of 32 ohms or more
	CD DIGITAL OUT (OPTICAL)
Muting	-20 dB

Compact disc player section

Laser	Semiconductor laser ($\lambda = 780$ nm)
D-A converter	1 bit dual
Signal-to-noise ratio	82 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

General

Power requirements	120 V/220–230 V/240 V AC, switchable, 50/60 Hz
Power consumption	200 W
Dimensions (W $\times$ H $\times$ D)	360 $\times$ 265 $\times$ 371 mm (14 $\frac{1}{4}$ $\times$ 10 $\frac{1}{2}$ $\times$ 14 $\frac{5}{8}$ in.)
Weight	11.65 kg (25 lb 11 oz.)

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- Under license from BBE Sound, Inc.

< EEZ, EZ >

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

MW tuner section

Tuning range	531 kHz to 1602 kHz (9 kHz step)
	530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 μ V/m
Antenna	Loop antenna

LW tuner section

Tuning range	144 kHz to 290 kHz
Usable sensitivity	1400 μ V/m
Antenna	Loop antenna

Amplifier section

Power output	[Stereo Mode]
	Front
	Rated: 120 W + 120 W (8 ohms, T.H.D. 1%, 1 kHz/DIN 45500)
	Reference: 140 W + 140 W (8 ohms, T.H.D. 10%, 1 kHz/DIN 45324)
	DIN MUSIC POWER: 170 W + 170 W
	[Dolby Pro Logic Mode]
	Front
	Rated: 100 W + 100 W (8 ohms, T.H.D. 1%, 1 kHz/DIN 45500)
	Reference: 120 W + 120 W (8 ohms, T.H.D. 10%, 1 kHz/DIN 45324)
	DIN MUSIC POWER: 170 W + 170 W
	Rear (Surround)
	Rated: 50 W + 50 W (16 ohms, T.H.D. 1%, 1 kHz/DIN 45500)
	Reference: 60 W + 60 W (16 ohms, T.H.D. 10%, 1 kHz/DIN 45324)
	DIN MUSIC POWER: 85 W + 85 W
	Center
	Rated: 100 W (8 ohms, T.H.D. 1%, 1 kHz/DIN 45500)
	Reference: 120 W (8 ohms, T.H.D. 10%, 1 kHz/DIN 45324)
	DIN MUSIC POWER: 170 W
	0.07 %
	(105 W, 1 kHz, 8 ohms, Front)
Total harmonic distortion	Inputs
	AUDIO IN
	PHONO: 2.8 mV (50 kohms)
	TAPE MONITOR: 200 mV (25 kohms)
	VIDEO 1, VIDEO 2/LD/MD, VIDEO 3, AUX/TV: 250 mV (50 kohms)
	VIDEO IN: 1 Vp-p (75 ohms)
Outputs	AUDIO OUT (REC OUT): 200 mV (2 kohms)
	VIDEO OUT (MONITOR): 1 Vp-p (75 ohms)
	SUPER WOOFER: 3.1 V
	FRONT SPEAKERS IMP: 8 Ω (front speakers A and B): accepts speakers of 8 ohms or more
	SURROUND SPEAKERS IMP: 16 Ω (surround speakers): accepts speakers of 16 ohms or more
	CENTER SPEAKER IMP: 8 Ω : accepts a speaker of 8 ohms or more
	PHONES (stereo jack): accepts headphones of 32 ohms or more
Muting	-20 dB

Compact disc player section

Laser	Semiconductor laser ($\lambda = 780$ nm)
D-A converter	1 bit dual
Signal-to-noise ratio	82 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

General

Power requirements	230 V AC, 50 Hz
Power consumption	210 W
Dimensions	360 × 265 × 371 mm (14 1/4 × 10 1/2 × 14 5/8)
Weight	11.65 kg (25 lb 11 oz)

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< K >

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

MW tuner section

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 µV/m
Antenna	Loop antenna

LW tuner section

Tuning range	144 kHz to 290 kHz
Usable sensitivity	1400 µV/m
Antenna	Loop antenna

Amplifier section

Power output	[Stereo Mode] Front Rated: 120 W + 120 W (8 ohms, T.H.D. 1%, 1 kHz/DIN 45500) Reference: 140 W + 140 W (8 ohms, T.H.D. 10%, 1 kHz/DIN 45324) [Dolby Pro Logic Mode] Front Rated: 100 W + 100 W (8 ohms, T.H.D. 1%, 1 kHz/DIN 45500) Reference: 120 W + 120 W (8 ohms, T.H.D. 10%, 1 kHz/DIN 45324) Rear (Surround) Rated: 50 W + 50 W (16 ohms, T.H.D. 1%, 1 kHz/DIN 45500) Reference: 60 W + 60 W (16 ohms, T.H.D. 10%, 1 kHz/DIN 45324) Center Rated: 100 W (8 ohms, T.H.D. 1%, 1 kHz/DIN 45500) Reference: 120 W (8 ohms, T.H.D. 10%, 1 kHz/DIN 45324) Total harmonic distortion	0.07 % (105 W, 1 kHz, 8 ohms, Front)
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Inputs

AUDIO IN
PHONO: 2.8 mV (50 kohms)
TAPE MONITOR: 200 mV (25 kohms)
VIDEO 1, VIDEO 2/LD/MD, VIDEO 3, AUX/TV: 250 mV (50 kohms)

Outputs

VIDEO IN: 1 Vp-p (75 ohms)
AUDIO OUT (REC OUT): 200 mV (2 kohms)
VIDEO OUT (MONITOR): 1 Vp-p (75 ohms)
SUPER WOOFER: 3.1 V
FRONT SPEAKERS IMP: 8 Ω (front speakers A and B): accepts speakers of 8 ohms or more
SURROUND SPEAKERS IMP: 16 Ω (surround speakers): accepts speakers of 16 ohms or more
CENTER SPEAKER IMP: 8 Ω: accepts a speaker of 8 ohms or more
PHONES (stereo jack): accepts headphones of 32 ohms or more
-20 dB

Muting

Compact disc player section

Laser	Semiconductor laser (λ = 780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	82 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

General

Power requirements	230 V AC, 50 Hz
Power consumption	210 W
Dimensions	360 × 265 × 371 mm (14 1/4 × 10 1/2 × 14 5/8)
Weight	11.65 kg (25 lb 11 oz)

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DISASSEMBLY INSTRUCTIONS

1. ピックアップの交換方法

1) TRAY をオープンさせる。

stopper を矢印の方向へ押し、SHAFT SLED 半分だけ抜く。

2) GEAR MAIN CAMを反時計方向（“a” の方向）に回し、figure 1のようにCDメカを持ち上げる。

3) SHAFT SLED を抜く。

4) CDメカを下げてPICK UPを交換する。

5) CDメカをfigure 1のように上げて、SHAFT SLEDを取り付ける。

1. How to replace PICK UP.

1) Open the TRAY.

Push the stopper to arrow direction and release half of the SHAFT SLED.

2) Turn GEAR MAIN CAM to the counterclockwise (arrow “a”) direction, and lift up CD mechanism. (figure 1)

3) Remove SHAFT SLED.

4) CD mechanism in down position, replace PICK UP.

5) Lift up CD mechanism (figure 1), and Reassemble the SHAFT SLED.

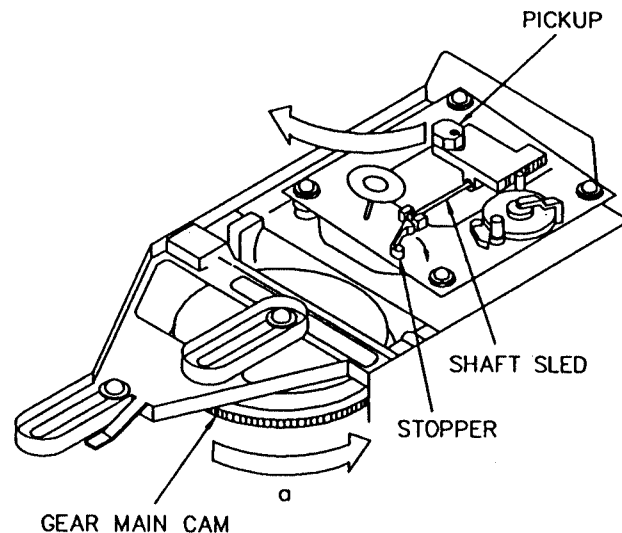


Figure 1

2.5 巻フェンゾヤブ ロックの外し方 (figure 2)

1) CD基板のFFC 2本を外し、ビス5本を外す。

2) 5巻フェンゾヤブ ロックを後から持ち上げて外す。

(PANEL TRAY を外さなくても、5巻フェンゾヤブ ロックを後から外すことができる。)

2. How to remove 5CD CHANGER BLOCK (figure 2)

1) Remove the two FFC of the CD circuit board, and remove the five SCREWS.

2) Lift 5 CD CHANGER BLOCK from behind, and remove it.

(5CD CHANGER BLOCK can be removed even if PANEL TRAY are not removed.)

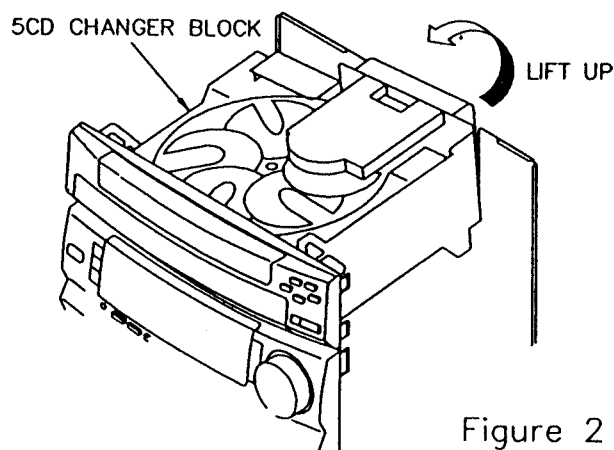
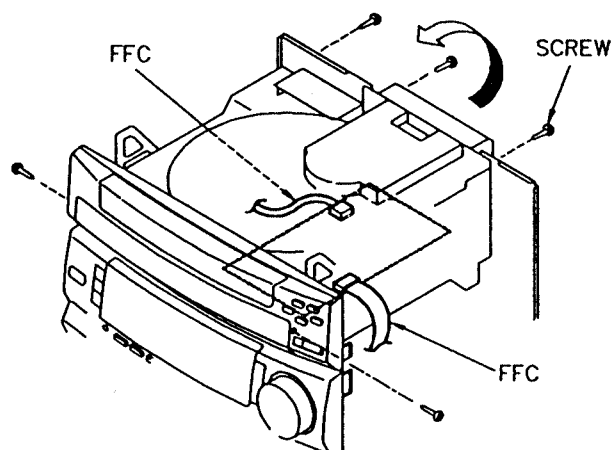


Figure 2

3 TRAY の分解・組立て方法

(1) 分解方法

- 1) CHAS MECHA 下部のPLATE GEARのボスを外側 (矢印 “b” 方向) に強く押す。

(figure 3)

(TRAY が少しせり出すのを確認する)

- 2) TRAY をオープン位置まで引き出す。

- 3) FFC を抜き、両側のCHAS MECH ツメ (2ヶ所) を押してTRAYを外す。

(figure 4)

3. The disassemble and reassemble the TRAY

(1) Disassembling procedure.

- 1) Push the PLATE GEAR'S Boss at the bottom part of CHAS MECHA strongly to the outside (arrow “b” direction). (figure 3)

(Confirm that TRAY appears a little in the front.)

- 2) Draw TRAY to the open position.

- 3) Remove FFC, and push the two LEVERS at both side of the CHAS MECH to remove TRAY. (figure 4)

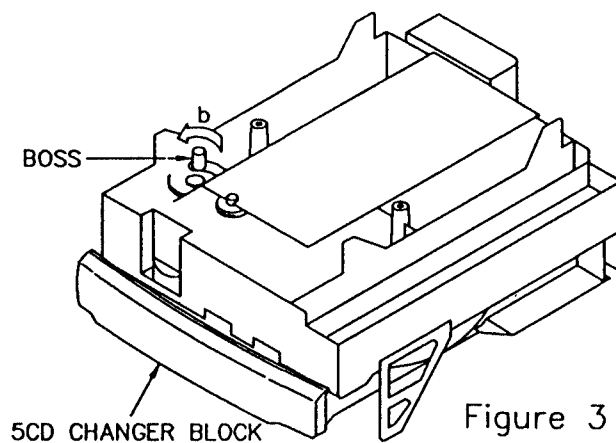


Figure 3

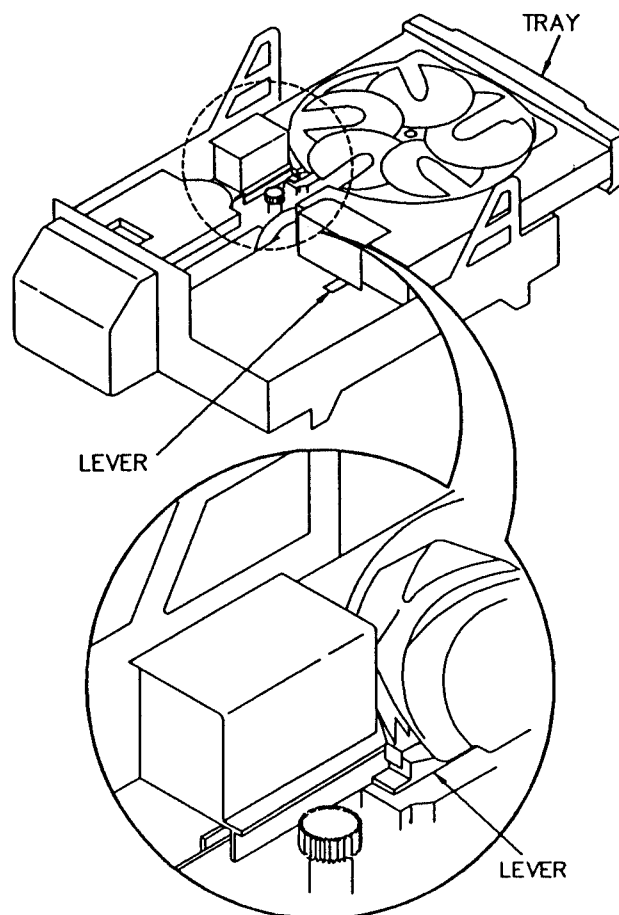
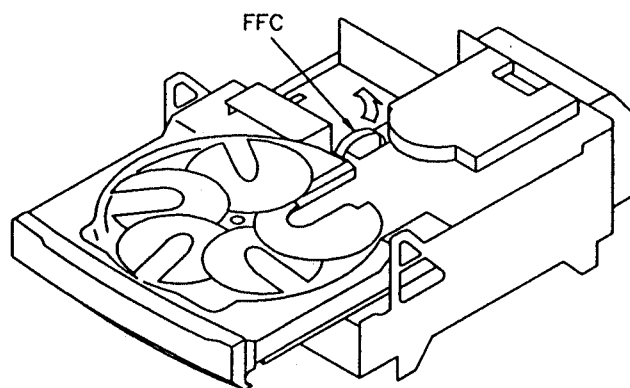


Figure 4

(2) 組立て方法

- 1) LEVER TRAY が figure 5 の位置で、CD メカが下がっていることを確認する。
- 2) TRAY を CHAS MECHA のレールに沿って組み込む。
- 3) 半分まで TRAY を組み込んだら FFC を差し、TRAY を最後まで押し入れる。

(figure 6)

(2) Reassembling procedure.

- 1) Confirm that LEVER TRAY is at the most right position in order for the CD Mechanism to be in the down position. (figure 5)
- 2) Push in the TRAY along the rail of the CHAS MECHA.
- 3) After TRAY is half closed and FFC is put in, it can enter by force until the end of TRAY closed. (figure 6)

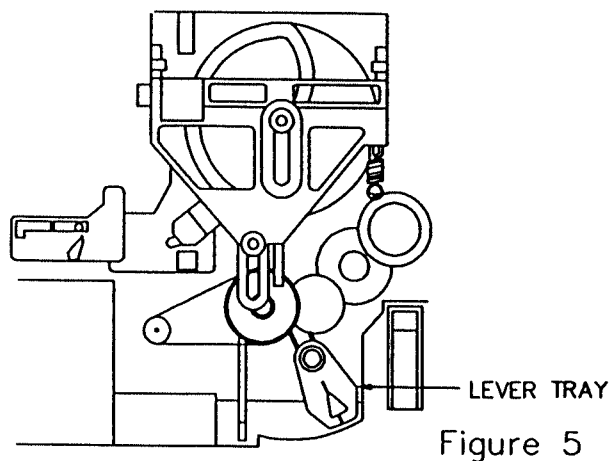


Figure 5

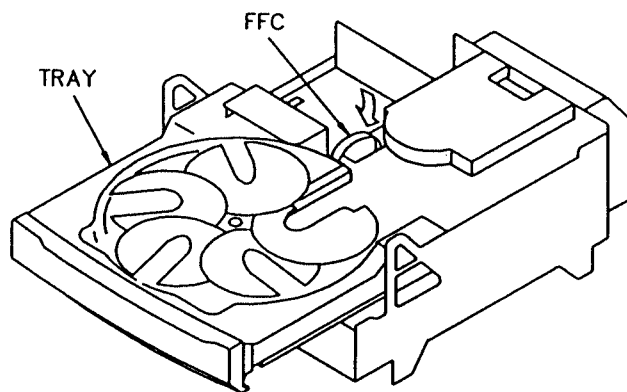


Figure 6

4. ターンテーブルの組立方法 (figure 7)

- 1) LEVER TT を "C" の方向に押しながら、TURN TABLE 5CD を組み込む。(figure 7)
この時、TRAY 5CD と TURN TABLE 5CD の切り欠きが同じ方向になるようにする。(figure 8)

* 組み込む際の TURN TABLE 5CD の CD 番号 (1 ~ 5) は任意で構いません。(figure 7)

4. How to reassemble the TURN TABLE. (figure 7)

- 1) Push LEVER TT in the direction of "C", and put in the TURN TABLE 5CD. (figure 7)

After reassembly, one of the TURN TABLE DISC TRAY (can be either one of the five disc trays) must be aligned with TURN TABLE 5CD. (figure 8)

That is, having no gap difference between the TURN TABLE 5CD and the TRAY 5CD.

* When reassembling the TURN TABLE 5CD, it is acceptable facing any CD number (1~5).

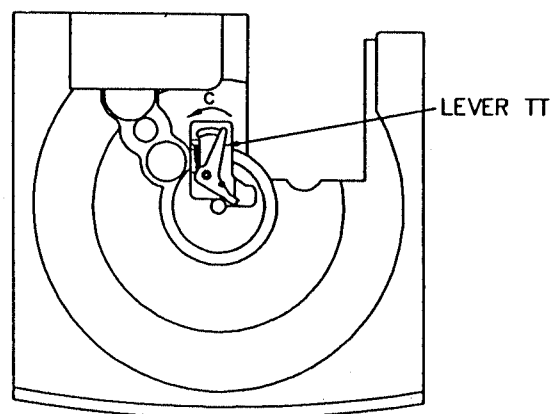


Figure 7

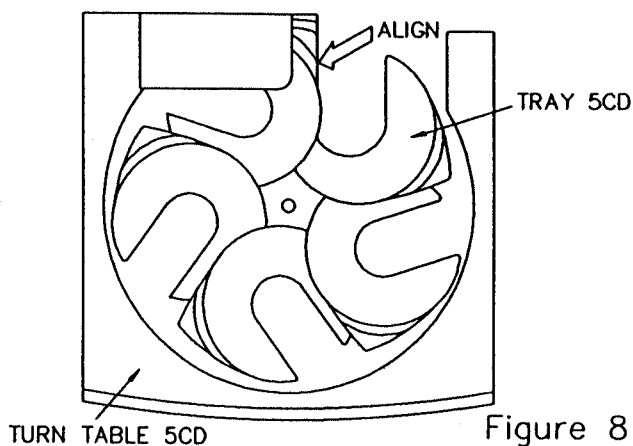


Figure 8

ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カナ NO.	DESCRIPTION	REF. NO	PART NO.	カナ NO.	DESCRIPTION
IC				MAIN C.B			
	87-002-779-010		IC, LA7956	C51	87-010-406-080		CAP, E 22-50 SME
	87-017-917-080		C-IC, BU4066BCF	C52	87-010-406-080		CAP, E 22-50 SME
	86-AR3-615-010		IC, LC866440W-5B43<U, HE, HR>	C53	87-010-406-080		CAP, E 22-50 SME
	86-AR3-616-010		IC, LC866448V-5C42<EEZ, K, EZ>	C54	87-010-406-080		CAP, E 22-50 SME
	87-070-083-010		IC, GP1U281X	C55	87-010-384-080		CAP, E 100-25 SME
	87-017-022-080		C-IC, NJM2068M-D (T1)	C56	87-010-196-080		C-CAP, S 0.1-25 Z F
	87-001-222-080		C-IC, NJU4051BM (T1)	C57	87-010-196-080		C-CAP, S 0.1-25 Z F
	87-A20-056-010		IC, BA3880S	C58	87-010-384-080		CAP, E 100-25 SME
	87-017-915-080		C-IC, BU4094BCF	C59	87-010-371-080		CAP, E 470-6.3 SME
	87-017-726-080		C-IC, BU4052BCF	C60	87-010-371-080		CAP, E 470-6.3 SME
	87-A20-063-010		IC, STK-419-140	C61	87-010-371-080		CAP, E 470-6.3 SME
	87-A20-069-040		C-IC, BA3842F	C62	87-010-196-080		C-CAP, S 0.1-25 Z F
	87-A20-107-010		IC, BA3836<U, HE, HR>	C63	87-010-196-080		C-CAP, S 0.1-25 Z F
	87-A20-068-040		C-IC, M65847FP<HE, HR>	C65	87-018-128-080		CAP, TC-U 560P-50 K B UP050<U>
	87-017-888-080		C-IC, NJM4558MD	C66	87-018-128-080		CAP, TC-U 560P-50 K B UP050<U>
	87-A20-082-010		C-IC, NJW1102AFG1	C67	87-018-128-080		CAP, TC-U 560P-50 K B UP050<U>
	87-A20-067-040		C-IC, M65849FP	C80	87-015-785-080		C-CAP, 0.1-25 Z F
	87-070-127-110		IC, LC72131D	C102	87-012-368-080		C-CAP, S 0.1-50 Z F
	87-017-714-110		IC, LA1836L	C103	87-012-368-080		C-CAP, S 0.1-50 Z F
	87-A20-105-040		C-IC, BU1921FS<EEZ, K, EZ>	C104	87-012-368-080		C-CAP, S 0.1-50 Z F
	87-001-792-080		C-IC, NJM2100M<EEZ, K, EZ>	C105	87-012-368-080		C-CAP, S 0.1-50 Z F
				C106	87-012-368-080		C-CAP, S 0.1-50 Z F
				C107	87-012-368-080		C-CAP, S 0.1-50 Z F
				C108	87-A10-122-090		CAP, E 6800-65 VR
				C109	87-A10-122-090		CAP, E 6800-65 VR
TRANSISTOR							
	89-327-125-080		C-TR, 2SC2712GR				
	87-026-232-080		C-TR, DTA144WK	C110	87-A10-056-090		CAP, E 4700-35
	87-026-236-080		C-TR, DTC124EK	C111	87-A10-056-090		CAP, E 4700-35
	89-213-292-080		TR, 2SB1329Q<U>	C112	87-010-382-080		CAP, E 22-25 SME
	89-213-702-010		TR, 2SB1370E	C113	87-010-235-080		CAP, E 470-16 SME
	89-111-625-080		C-TR, 2SA1162GR	C114	87-010-384-080		CAP, E 100-25 SME<EXCEPT U>
	89-113-187-080		TR, 2SA1318TU				
	89-332-665-080		TR, 2SC3266GR	C114	87-010-382-080		CAP, E 22-25 SME<U>
	87-026-462-080		TR, 2SC1740S (RS) <EXCEPT U>	C115	87-010-178-080		C-CAP, S 1000P-50 K B
	87-026-610-080		TR, KTC3198GR	C116	87-010-263-080		CAP, E 100-10 SME<U>
	89-337-221-380		C-TR, 2SC3722K (R/S/E)	C117	87-010-235-080		CAP, E 470-16 SME
	87-026-210-080		C-TR, DTC144EK	C118	87-010-235-080		CAP, E 470-16 SME
	87-026-230-080		C-TR, DTA114YK	C119	87-010-407-080		CAP, E 33-50 SME<EXCEPT U>
	89-421-141-280		C-TR, 2SD2114KU	C119	87-010-408-080		CAP, E 47-50 SME<U>
	87-026-228-080		C-TR, DTA124EK	C120	87-010-407-080		CAP, E 33-50 SME<EXCEPT U>
	87-A30-047-080		TR, CSD655E	C120	87-010-408-080		CAP, E 47-50 SME<U>
	89-109-521-080		TR, 2SA952K	C121	87-010-408-080		CAP, E 47-50 SME
	89-109-705-080		TR, 2SA970GR	C122	87-010-263-080		CAP, E 100-10 SME
	87-026-238-080		C-TR, DTC144WK	C123	87-010-260-080		CAP, E 47-25 SME
	89-327-143-080		C-TR, 2SC27140	C124	87-010-403-080		CAP, E 3.3-50 SME
	87-026-269-080		TR, DTA114ES<EEZ, K, EZ>	C201	87-010-404-080		CAP, E 4.7-50 SME
	87-026-214-080		TR, DTA114YS	C202	87-010-404-080		CAP, E 4.7-50 SME
	89-505-434-580		C-FET, 2SK543 (4/5)				
DIODE							
	87-017-437-080		DIODE, 1N4148M	C203	87-012-157-080		C-CAP, S 330P-50 J CH GRM
	87-A40-115-060		DIODE, RS603M	C204	87-012-157-080		C-CAP, S 330P-50 J CH GRM
	87-A40-224-010		DIODE, GBU8DL<EXCEPT U>	C211	87-010-404-080		CAP, E 4.7-50 SME
	87-A40-223-010		DIODE, GBU8J<U>	C212	87-010-404-080		CAP, E 4.7-50 SME
	87-070-274-080		DIODE, 1N4003 SEM	C213	87-010-260-080		CAP, E 47-25 SME
	87-020-027-080		C-DIODE, 1SS184	C214	87-010-260-080		CAP, E 47-25 SME
	87-A40-201-080		ZENER, UZ4.7BSA	C215	87-010-370-080		CAP, E 330-6.3 SME
	87-001-916-080		ZENER, UTZJ10B<U>	C216	87-010-370-080		CAP, E 330-6.3 SME
	87-A40-200-080		ZENER, UZL11L3<EXCEPT U>	C217	87-010-196-080		C-CAP, S 0.1-25 Z F
	87-A40-199-080		ZENER, UZL6H2	C218	87-010-196-080		C-CAP, S 0.1-25 Z F
	87-017-145-080		ZENER, HZS27-2<U>	C245	87-010-196-080		C-CAP, S 0.1-25 Z F
	87-A40-209-080		ZENER, UZ27BSD<EXCEPT U>	C246	87-010-196-080		C-CAP, S 0.1-25 Z F
	87-020-125-080		C-DIODE, 1SS181	C247	87-010-196-080		C-CAP, S 0.1-25 Z F
	87-A40-198-080		ZENER, UZL6M1<EXCEPT U>	C248	87-010-196-080		C-CAP, S 0.1-25 Z F
	87-001-913-080		ZENER, UTZJ5.6B<U>	C249	87-010-196-080		C-CAP, S 0.1-25 Z F
	87-001-912-080		ZENER, UTZJ5.1B<U>	C259	87-010-184-080		C-CAP, S 3300P-50 K B
	87-A40-202-080		ZENER, UZ5.1BSB<EXCEPT U>	C260	87-010-184-080		C-CAP, S 3300P-50 K B
				C263	87-010-196-080		C-CAP, S 0.1-25 Z F<EXCEPT U>
				C291	87-010-188-080		C-CAP, S 6800P-50 K B
				C292	87-010-188-080		C-CAP, S 6800P-50 K B
				C293	87-010-101-080		CAP, E 220-16 SME
				C295	87-010-404-080		CAP, E 4.7-50 SME
				C296	87-010-404-080		CAP, E 4.7-50 SME

REF. NO	PART NO.	カリ NO.	DESCRIPTION	REF. NO	PART NO.	カリ NO.	DESCRIPTION
C297	87-010-404-080		CAP, E 4.7-50 SME	C456	87-010-401-080		CAP, E 1-50 SME<U, HE, HR>
C298	87-010-404-080		CAP, E 4.7-50 SME	C457	87-010-260-080		CAP, E 47-25 SME<U, HE, HR>
C299	87-012-140-080		C-CAP, S 470P-50 J CH	C458	87-018-209-080		CAP, TC-U 0.1-50 Z F<U, HE, HR>
C300	87-018-127-080		CAP, TC-U 470P-50 K B UP050	C459	87-010-405-080		CAP, E 10-50 SME<U, HE, HR>
C301	87-010-405-080		CAP, E 10-50 SME	C460	87-010-545-080		CAP, E 0.22-50 SME<U, HE, HR>
C302	87-010-405-080		CAP, E 10-50 SME	C461	87-010-194-080		C-CAP, S 0.047-25 K F<U, HE, HR>
C303	87-012-156-080		C-CAP, S 220P-50 J CH<U, EEZ, K, EZ>	C462	87-010-182-080		C-CAP, S 2200P-50 K B
C303	87-012-140-080		C-CAP, S 470P-50 J CH<HE, HR>	C463	87-018-209-080		CAP, TC-U 0.1-50 Z F<U, HE, HR>
C304	87-012-156-080		C-CAP, S 220P-50 J CH<U, EEZ, K, EZ>	C465	87-018-133-080		CAP, TC-U 4700P-16 N X<U, HE, HR>
C304	87-012-140-080		C-CAP, S 470P-50 J CH<HE, HR>	C470	87-010-183-080		C-CAP, S 2700P-50 K B<U, HE, HR>
C305	87-010-197-080		C-CAP, S 0.01-25 K B	C471	87-010-401-080		CAP, E 1-50 SME<EEZ, K, EZ>
C306	87-010-197-080		C-CAP, S 0.01-25 K B	C472	87-010-401-080		CAP, E 1-50 SME<EEZ, K, EZ>
C307	87-010-195-080		C-CAP, S 0.068-25 K F	C491	87-018-209-080		CAP, TC-U 0.1-50 Z F UP050<U>
C308	87-010-195-080		C-CAP, S 0.068-25 K F	C501	87-010-263-080		CAP, E 100-10 SME
C309	87-010-260-080		CAP, E 47-25 SME	C502	87-010-196-080		C-CAP, S 0.1-25 Z F
C310	87-010-196-080		C-CAP, S 0.1-25 Z F	C503	87-016-472-080		CAP, E 22-16 K SME
C311	87-010-196-080		C-CAP, S 0.1-25 Z F	C505	87-010-263-080		CAP, E 100-10 SME
C341	87-018-209-080		CAP, TC-U 0.1-50 Z F UP050	C506	87-016-456-080		CAP, E 22-16 LLA
C342	87-010-196-080		C-CAP, S 0.1-25 Z F	C509	87-010-176-080		C-CAP, S 680P-50 J SL
C343	87-010-322-080		C-CAP, S 100P-50 J CH	C512	87-010-176-080		C-CAP, S 680P-50 J SL
C361	87-010-401-080		CAP, E 1-50 SME	C513	87-016-081-080		C-CAP, S 0.1-16 K R
C362	87-010-401-080		CAP, E 1-50 SME	C516	87-016-081-080		C-CAP, S 0.1-16 K R
C363	87-010-178-080		C-CAP, S 1000P-50 K B	C517	87-016-081-080		C-CAP, S 0.1-16 K R
C364	87-010-178-080		C-CAP, S 1000P-50 K B	C520	87-016-081-080		C-CAP, S 0.1-16 K R
C365	87-010-402-080		CAP, E 2.2-50 SME	C521	87-012-393-080		C-CAP, S 0.22-16 K W5R CM/CB
C366	87-010-402-080		CAP, E 2.2-50 SME	C522	87-012-393-080		C-CAP, S 0.22-16 K W5R CM/CB
C367	87-010-406-080		CAP, E 22-50 SME	C523	87-010-404-080		CAP, E 4.7-50 SME
C368	87-010-406-080		CAP, E 22-50 SME	C524	87-010-404-080		CAP, E 4.7-50 SME
C370	87-A10-200-080		CAP, E 10-100 M BP SME	C525	87-012-393-080		C-CAP, S 0.22-16 K W5R CM/CB
C371	87-010-147-080		C-CAP, S 3P-50 C CH GRM	C526	87-012-393-080		C-CAP, S 0.22-16 K W5R CM/CB
C372	87-010-147-080		C-CAP, S 3P-50 C CH GRM	C527	87-012-394-080		C-CAP, S 0.68-16 K W5R CM/CB
C373	87-010-194-080		C-CAP, S 0.047-25 K F	C530	87-010-187-080		C-CAP, S 5600P-50 K B
C383	87-010-318-080		C-CAP, S 47P-50 J CH	C531	87-010-186-080		C-CAP, S 4700P-50 K B
C384	87-010-318-080		C-CAP, S 47P-50 J CH	C532	87-012-140-080		C-CAP, S 470P-50 J CH<EXCEPT U>
C386	87-012-368-080		C-CAP, S 0.1-50 Z F<EXCEPT U>	C534	87-010-405-080		CAP, E 10-50 SME
C387	87-012-368-080		C-CAP, S 0.1-50 Z F<EXCEPT U>	C535	87-010-263-080		CAP, E 100-10 SME
C402	87-010-402-080		CAP, E 2.2-50 SME<U, HE, HR>	C536	87-016-083-080		C-CAP, S 0.15-16 K R
C403	87-010-402-080		CAP, E 2.2-50 SME<U, HE, HR>	C537	87-010-260-080		CAP, E 47-25 SME
C404	87-010-401-080		CAP, E 1-50 SME<U, HE, HR>	C540	87-016-462-080		C-CAP, S 1-16 Z F
C405	87-010-401-080		CAP, E 1-50 SME<U, HE, HR>	C551	87-018-209-080		CAP, TC-U 0.1-50 Z F UP050
C406	87-010-263-080		CAP, E 100-10 SME<U, HE, HR>	C552	87-010-263-080		CAP, E 100-10 SME
C407	87-010-196-080		C-CAP, S 0.1-25 Z F<U, HE, HR>	C553	87-010-318-080		C-CAP, S 47P-50 J CH
C408	87-010-382-080		CAP, E 22-25 SME<U, HE, HR>	C554	87-010-318-080		C-CAP, S 47P-50 J CH
C409	87-010-194-080		C-CAP, S 0.047-25 K F<U, HE, HR>	C555	87-010-400-080		CAP, E 0.47-50 SME
C410	87-016-492-080		C-CAP, S 0.33-16 Z F<U, HE, HR>	C556	87-010-197-080		C-CAP, S 0.01-25 K B
C411	87-010-545-080		CAP, E 0.22-50 SME<U, HE, HR>	C557	87-010-179-080		C-CAP, S 1200P-50 K B
C412	87-010-194-080		C-CAP, S 0.047-25 K F<U, HE, HR>	C558	87-010-196-080		C-CAP, S 0.1-25 Z F
C413	87-010-196-080		C-CAP, S 0.1-25 Z F<HE, HR>	C561	87-010-196-080		C-CAP, S 0.1-25 Z F
C420	87-010-260-080		CAP, E 47-25 SME<HE, HR>	C562	87-010-177-080		C-CAP, S 820P-50 J SL
C421	87-010-263-080		CAP, E 100-10 SME<HE, HR>	C563	87-010-197-080		C-CAP, S 0.01-25 K B<K>
C422	87-010-196-080		C-CAP, S 0.1-25 Z F<HE, HR>	C564	87-012-141-080		C-CAP, S 0.22-16 Z F
C423	87-A10-060-080		C-CAP, S 0.18-16 K B<HE, HR>	C567	87-010-263-080		CAP, E 100-10 SME
C424	87-A10-060-080		C-CAP, S 0.18-16 K B<HE, HR>	C568	87-010-179-080		C-CAP, S 1200P-50 K B
C425	87-012-154-080		C-CAP, S 150P-50 J CH GRM<HE, HR>	C569	87-010-404-080		CAP, E 4.7-50 SME
C426	87-012-154-080		C-CAP, S 150P-50 J CH GRM<HE, HR>	C571	87-010-318-080		C-CAP, S 47P-50 J CH
C427	87-012-145-080		C-CAP, S 270P-50 J CH<HE, HR>	C572	87-010-313-080		C-CAP, S 18P-50 J CH
C428	87-012-145-080		C-CAP, S 270P-50 J CH<HE, HR>	C573	87-010-313-080		C-CAP, S 18P-50 J CH<EXCEPT U>
C429	87-010-196-080		C-CAP, S 0.1-25 Z F<HE, HR>	C574	87-012-153-080		C-CAP, S 120P-50 J CH GRM
C430	87-010-177-080		C-CAP, S 820P-50 J SL<HE, HR>	C575	87-010-196-080		C-CAP, S 0.1-25 Z F
C431	87-010-177-080		C-CAP, S 820P-50 J SL<HE, HR>	C601	87-010-401-080		CAP, E 1-50 SME
C432	87-010-183-080		C-CAP, S 2700P-50 K B<HE, HR>	C602	87-010-401-080		CAP, E 1-50 SME
C434	87-010-196-080		C-CAP, S 0.1-25 Z F<HE, HR>	C603	87-010-401-080		CAP, E 1-50 SME
C435	87-010-183-080		C-CAP, S 2700P-50 K B<HE, HR>	C604	87-010-401-080		CAP, E 1-50 SME
C436	87-010-314-080		C-CAP, S 22P-50 J CH<HE, HR>	C605	87-010-404-080		CAP, E 4.7-50 SME
C437	87-012-154-080		C-CAP, S 150P-50 J CH GRM<HE, HR>	C606	87-010-404-080		CAP, E 4.7-50 SME
C451	87-010-186-080		C-CAP, S 4700P-50 K B<U, HE, HR>	C607	87-010-194-080		C-CAP, S 0.047-25 K F
C452	87-010-321-080		C-CAP, S 82P-50 J CH<U, HE, HR>	C609	87-010-147-080		C-CAP, S 3P-50 C CH GRM
C453	87-010-260-080		CAP, E 47-25 SME<U, HE, HR>	C610	87-010-147-080		C-CAP, S 3P-50 C CH GRM
C454	87-018-209-080		CAP, TC-U 0.1-50 Z F<U, HE, HR>	C625	87-010-197-080		C-CAP, S 0.01-25 K B
C455	87-010-177-080		C-CAP, S 820P-50 J SL<U, HE, HR>	C626	87-010-186-080		C-CAP, S 4700P-50 K B

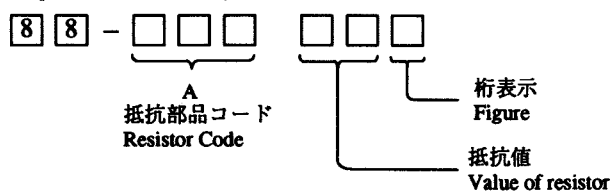
REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C627	87-010-318-080		C-CAP,S 47P-50 J CH	C901	87-010-197-080		C-CAP,S 0.01-25 K B<U,HE,HR>
C628	87-010-318-080		C-CAP,S 47P-50 J CH	C920	87-010-196-080		C-CAP,S 0.1-25 Z F<EXCEPT U>
C632	87-A10-200-080		CAP,E 10-100 M BP SME	C942	87-010-150-080		C-CAP,S 6P-50 D CH<EEZ,K,EZ>
C701	87-010-404-080		CAP,E 4.7-50 SME	C949	87-014-047-080		CAP,PP 390P-100 J<EEZ,K,EZ>
C702	87-010-197-080		C-CAP,S 0.01-25 K B	C952	87-010-197-080		C-CAP,S 0.01-25 K B<EEZ,K,EZ>
C703	87-010-197-080		C-CAP,S 0.01-25 K B	C955	87-010-197-080		C-CAP,S 0.01-25 K B
C704	87-018-131-080		CAP,TC-U 1000P-50 K B UP050	C957	87-010-315-080		C-CAP,S 27P-50 J CH<EEZ,K,EZ>
C707	87-010-546-080		CAP,E 0.33-50 SME	C958	87-010-197-080		C-CAP,S 0.01-25 K B<EEZ,K,EZ>
C708	87-010-546-080		CAP,E 0.33-50 SME	C960	87-010-196-080		C-CAP,S 0.1-25 Z F
C711	87-010-263-080		CAP,E 100-10 SME	C988	87-010-198-080		C-CAP,S 0.022-25 K B
C712	87-010-112-080		CAP,E 100-16 SME	C989	87-010-154-080		C-CAP,S 10P-50 D CH<U,HE,HR>
C722	87-010-152-080		C-CAP,S 8P-50 D CH	CF801	87-008-423-080		FLTR, SFE10.7MS3GH<EEZ,K,EZ>
C723	87-010-178-080		C-CAP,S 1000P-50 K B	CF801	87-008-261-080		FLTR,CF SFE10.7MA5<U,HE,HR>
C725	87-010-178-080		C-CAP,S 1000P-50 K B	CF802	82-785-747-080		CF,MS2 GHY,R<EEZ,K,EZ>
C727	87-010-196-080		C-CAP,S 0.1-25 Z F	CF802	87-008-261-080		FLTR,CF SFE10.7MA5<U,HE,HR>
C728	87-010-248-080		CAP,E 220-10 SME	EMI51	87-008-372-080		FLTR,EMIBL01 RN1
C729	87-018-134-080		CAP,TC-U 0.01-16 N Y UP050	EMI52	87-008-372-080		FLTR,EMIBL01 RN1<U>
C731	87-012-153-080		C-CAP,S 120P-50 J CH GRM	EMI53	87-008-372-080		FLTR,EMIBL01 RN1<U>
C732	87-012-155-080		C-CAP,S 180P-50 J CH GRM	EMI54	87-008-372-080		FLTR,EMIBL01 RN1<U>
C733	87-012-155-080		C-CAP,S 180P-50 J CH GRM	EMI55	87-008-372-080		FLTR,EMIBL01 RN1<U>
C771	87-010-405-080		CAP,E 10-50 SME	EMI56	87-008-372-080		FLTR,EMIBL01 RN1<U>
C772	87-010-194-080		C-CAP,S 0.047-25 K F	EMI250	87-008-372-080		FLTR,EMIBL01 RN1
C773	87-010-196-080		C-CAP,S 0.1-25 Z F<U>	EMI451	87-008-372-080		FLTR,EMIBL01 RN1<U,HE,HR>
C774	87-010-263-080		CAP,E 100-10 SME	EMI550	87-008-372-080		FLTR,EMIBL01 RN1
C775	87-010-405-080		CAP,E 10-50 SME	△F104	87-026-691-080		FUSE,10A 125V 251<U>
C776	87-010-197-080		C-CAP,S 0.01-25 K B	△F105	87-026-691-080		FUSE,10A 125V 251<U>
C777	87-010-400-080		CAP,E 0.47-50 SME	FFC3	88-906-271-110		FF-CABLE, 6P 1.25
C778	87-010-401-080		CAP,E 1-50 SME	FFE801	A8-62A-191-030		6ZA-1 FEENM<EEZ,K,EZ>
C779	87-010-401-080		CAP,E 1-50 SME	FFE801	86-VT1-620-010		TU UNIT,FE 3EX (ALP)<U,HE,HR>
C780	87-010-197-080		C-CAP,S 0.01-25 K B	J241	87-009-393-010		JACK,PIN 2P
C785	87-018-209-080		CAP,TC-U 0.1-50 Z F UP050<HE,HR>	J242	87-099-609-010		JACK,PIN 4P
C789	87-010-427-080		C-CAP,S 0.039-25 Z F<EXCEPT U>	J243	87-099-911-010		JACK,PIN 3P YEL W/O SW
C789	87-010-194-080		C-CAP,S 0.047-25 K F<U>	J244	87-099-911-010		JACK,PIN 3P YEL W/O SW
C790	87-010-427-080		C-CAP,S 0.039-25 Z F<EXCEPT U>	J245	87-099-911-010		JACK,PIN 3P YEL W/O SW
C790	87-010-194-080		C-CAP,S 0.047-25 K F<U>	J246	87-099-911-010		JACK,PIN 3P YEL W/O SW
C791	87-010-401-080		CAP,E 1-50 SME	J247	87-099-911-010		JACK,PIN 3P YEL W/O SW
C792	87-015-825-080		C-CAP,1500P-50 K B<U,HE,HR>	J249	85-HRL-623-010		JACK,3.5 ST BLK
C792	87-015-629-080		C-CAP,2200P-50 K B<EEZ,K,EZ>	J250	87-A60-197-010		JACK,PIN 3P Y/W/R W/O SW H
C793	87-010-189-080		C-CAP,S 8200P-50 K B	J361	87-A60-198-010		JACK,6.3 BLK ST W/O SW HPJ
C794	87-010-260-080		CAP,E 47-25 SME	J451	87-A60-188-010		JACK,6.3 BLK MONO W/SW<U,HE,HR>
C795	87-010-194-080		C-CAP,S 0.047-25 K F	J452	87-A60-188-010		JACK,6.3 BLK MONO W/SW<U,HE,HR>
C796	87-010-403-080		CAP,E 3.3-50 SME	J801	87-A60-202-010		TERMINAL,ANT 4P<U,HE,HR>
C797	87-010-197-080		C-CAP,S 0.01-25 K B	J802	87-033-241-010		TERMINAL,ANT AJ-2039<EEZ,K,EZ>
C799	87-010-405-080		CAP,E 10-50 SME	L51	87-005-444-080		COIL,100UH K FLR50
C809	87-010-197-080		C-CAP,S 0.01-25 K B<EEZ,K,EZ>	L201	87-A50-091-080		COIL,220UH (CECS)<EEZ,K,EZ>
C817	87-010-196-080		C-CAP,S 0.1-25 Z F<EXCEPT U>	L202	87-A50-091-080		COIL,220UH (CECS)<EEZ,K,EZ>
C819	87-010-196-080		C-CAP,S 0.1-25 Z F	L203	87-A50-091-080		COIL,220UH (CECS)<EEZ,K,EZ>
C820	87-010-260-080		CAP,E 47-25 SME	L204	87-A50-091-080		COIL,220UH (CECS)<EEZ,K,EZ>
C821	87-010-197-080		C-CAP,S 0.01-25 K B	L551	87-005-481-080		COIL,47UH J FLR50
C823	87-010-197-080		C-CAP,S 0.01-25 K B	L741	87-A50-015-010		COIL,FM DET (TOK)
C825	87-010-196-080		C-CAP,S 0.1-25 Z F	L742	82-NT1-659-010		FILTER,CFMZ-4502NT<EEZ,K,EZ>
C833	87-018-209-080		CAP,TC-U 0.1-50 Z F UP050	L742	87-A90-052-010		FLTR, CFMT-450A(TOK)<U,HE,HR>
C834	87-018-209-080		CAP,TC-U 0.1-50 Z F UP050	L770	87-005-849-080		COIL,10UH K CECS
C835	87-010-197-080		C-CAP,S 0.01-25 K B<U>	L832	87-005-847-080		COIL,2.2UH K CECS
C835	87-012-358-080		C-CAP,S 0.47-10 Z F<EXCEPT U>	L850	87-005-847-080		COIL,2.2UH K CECS<EEZ,K,EZ>
C836	87-010-401-080		CAP,E 1-50 SME	L941	87-006-320-010		COIL,ANT 252KHZ LW<EEZ,K,EZ>
C837	87-010-197-080		C-CAP,S 0.01-25 K B	L942	87-007-338-010		COIL,OSC LW 873KHZ<EEZ,K,EZ>
C849	87-010-197-080		C-CAP,S 0.01-25 K B	L981	85-NF7-664-010		TU UNIT, AM PACK 1<U,HE,HR>
C850	87-010-196-080		C-CAP,S 0.1-25 Z F	L981	85-NF7-665-010		TU UNIT, AM PACK 2<EEZ,K,EZ>
C860	87-010-248-080		CAP,E 220-10 SME<EEZ,K,EZ>	PR104	87-026-682-080		PROTECTOR,10A 491 60V<EXCEPT U>
C861	87-010-196-080		C-CAP,S 0.1-25 Z F<EEZ,K,EZ>	PR105	87-026-682-080		PROTECTOR,10A 491 60V<EXCEPT U>
C862	87-010-182-080		C-CAP,S 2200P-50 K B<EEZ,K,EZ>	R135	87-022-600-080		RES,M/F 0.1-2W J
C863	87-010-178-080		C-CAP,S 1000P-50 K B<EEZ,K,EZ>	R136	87-022-600-080		RES,M/F 0.1-2W J
C864	87-010-315-080		C-CAP,S 27P-50 J CH<EEZ,K,EZ>	R141	87-022-600-080		RES,M/F 0.1-2W J
C865	87-010-315-080		C-CAP,S 27P-50 J CH<EEZ,K,EZ>	R142	87-022-600-080		RES,M/F 0.1-2W J
C866	87-010-196-080		C-CAP,S 0.1-25 Z F<EEZ,K,EZ>	△R144	87-029-060-010		RES,FUSE 33-1/4W J<EXCEPT U>
C867	87-012-140-080		C-CAP,S 470P-50 J CH<EEZ,K,EZ>	△R144	87-025-475-080		RES,NF 22-1/4W J<U>
C868	87-010-405-080		CAP,E 10-50 SME<EEZ,K,EZ>	R389	87-A00-126-080		RES,M/F 220-1W J VTP
C871	87-010-805-080		C-CAP,S 1-16 Z F<EEZ,K,EZ>	R390	87-A00-126-080		RES,M/F 220-1W J VTP
C872	87-010-197-080		C-CAP,S 0.01-25 K B<EEZ,K,EZ>	R391	87-A00-126-080		RES,M/F 220-1W J VTP

REF. NO	PART NO.	カリ NO.	DESCRIPTION	REF. NO	PART NO.	カリ NO.	DESCRIPTION
R392	87-A00-126-080		RES,M/F 220-1W J VTP	LED318	87-001-123-080		LED,SLZ-981C-02 RED
R521	87-022-365-080		C-RES,S 100K-1/10W F	LED319	87-001-123-080		LED,SLZ-981C-02 RED
RY101	87-045-389-010		RELAY,12V OSA-SS-212DM5	LED320	87-001-123-080		LED,SLZ-981C-02 RED
SFR722	87-024-171-080		SFR,4.7K H RH0638C	LED321	87-001-123-080		LED,SLZ-981C-02 RED
SW361	87-A90-174-010		SW,PUSH 2-2-2	LED322	87-001-123-080		LED,SLZ-981C-02 RED
SW362	87-A90-174-010		SW,PUSH 2-2-2	LED323	87-001-123-080		LED,SLZ-981C-02 RED
TC721	87-011-253-080		TRIMMER,CER 30P 4.0X4.5 ECRLA	LED324	87-001-123-080		LED,SLZ-981C-02 RED
TC942	87-011-253-080		TRIMMER,CER 30P<EEZ,K,EZ>	LED351	87-070-201-080		LED,SLP-9118C-51-S RED<EEZ,K,EZ>
TH361	87-A90-157-080		C-THMS,4.7K<EXCEPT U>	LED352	87-070-201-080		LED,SLP-9118C-51-S RED<EEZ,K,EZ>
TH601	87-A90-157-080		C-THMS,4.7K<EXCEPT U>	LED353	87-070-201-080		LED,SLP-9118C-51-S RED<EEZ,K,EZ>
VR451	86-AR4-652-010		VR,RTRY 10KBX1 1 H<U,HE,HR>	LED354	87-070-201-080		LED,SLP-9118C-51-S RED<EEZ,K,EZ>
VR452	86-AR4-651-010		VR,RTRY 10KAX1 1 H<U,HE,HR>	LED355	87-070-201-080		LED,SLP-9118C-51-S RED<EEZ,K,EZ>
W101	86-AR4-643-110		F-CABLE,7P 2.5 250MM	S201	87-A90-095-080		SW,TACT EVQ11G04M
W601	86-AR4-641-110		F-CABLE,6P 2.5 500MM	S202	87-A90-095-080		SW,TACT EVQ11G04M
W602	86-AR4-642-110		F-CABLE,4P 2.5 300MM	S203	87-A90-095-080		SW,TACT EVQ11G04M
X703	84-508-618-010		VIB,CER CSB 456 F15	S204	87-A90-095-080		SW,TACT EVQ11G04M
X721	87-030-372-010		VIB,XTAL 7.200MHZ CSA-309	S205	87-A90-095-080		SW,TACT EVQ11G04M
X850	89-KT1-608-010		X,TAL 4.332MHZ<EEZ,K,EZ>	S206	87-A90-095-080		SW,TACT EVQ11G04M
				S207	87-A90-095-080		SW,TACT EVQ11G04M
				S208	87-A90-095-080		SW,TACT EVQ11G04M
FRONT-1 C.B				S209	87-A90-095-080		SW,TACT EVQ11G04M
	86-AR3-202-010		GUIDE,FL	S210	87-A90-095-080		SW,TACT EVQ11G04M
C102	87-018-149-080		CAP,TC U 15P-50 J CH	S211	87-A90-095-080		SW,TACT EVQ11G04M
C103	87-012-155-080		C-CAP,S 180P-50 J CH GRM	S212	87-A90-095-080		SW,TACT EVQ11G04M
C104	87-010-196-080		C-CAP,S 0.1-25 Z F	S213	87-A90-095-080		SW,TACT EVQ11G04M
C105	87-010-196-080		C-CAP,S 0.1-25 Z F	S214	87-A90-095-080		SW,TACT EVQ11G04M
C106	87-010-196-080		C-CAP,S 0.1-25 Z F<U,HE,HR>	S221	87-A90-095-080		SW,TACT EVQ11G04M
C107	87-016-460-080		C-CAP,S 0.22-16 K B<U,HE,HR>	S222	87-A90-095-080		SW,TACT EVQ11G04M
C108	87-015-699-040		CAP,E 10-50 7L SRA	S223	87-A90-095-080		SW,TACT EVQ11G04M
C109	87-010-178-080		C-CAP,S 1000P-50 K B	S224	87-A90-095-080		SW,TACT EVQ11G04M
C111	87-010-060-040		CAP,E 100-16 7L SRA	S225	87-A90-095-080		SW,TACT EVQ11G04M
C112	87-010-562-040		CAP,E 220-10 5L SRE	S226	87-A90-095-080		SW,TACT EVQ11G04M
C113	87-010-401-040		CAP,E 1-50 SME	S227	87-A90-095-080		SW,TACT EVQ11G04M
C114	87-010-401-040		CAP,E 1-50 SME	S228	87-A90-095-080		SW,TACT EVQ11G04M
C115	87-010-196-080		C-CAP,S 0.1-25 Z F	S229	87-A90-095-080		SW,TACT EVQ11G04M
C116	87-010-196-080		C-CAP,S 0.1-25 Z F<U,HE,HR>	S230	87-A90-095-080		SW,TACT EVQ11G04M
C161	87-010-408-040		CAP,E 47-50 SME	S231	87-A90-095-080		SW,TACT EVQ11G04M
C162	87-010-404-040		CAP,E 4.7-50 SME	S232	87-A90-095-080		SW,TACT EVQ11G04M
C163	87-010-404-040		CAP,E 4.7-50 SME	S233	87-A90-095-080		SW,TACT EVQ11G04M<EXCEPT U>
C191	87-018-209-080		CAP,TC-U 0.1-50 Z F UP050	S234	87-A90-095-080		SW,TACT EVQ11G04M<EXCEPT U>
C192	87-018-209-080		CAP,TC-U 0.1-50 Z F UP050	S241	87-A90-095-080		SW,TACT EVQ11G04M
C301	87-010-196-080		C-CAP,S 0.1-25 Z F	S242	87-A90-095-080		SW,TACT EVQ11G04M
C302	87-010-196-080		C-CAP,S 0.1-25 Z F	S243	87-A90-095-080		SW,TACT EVQ11G04M
C303	87-018-209-080		CAP,TC-U 0.1-50 Z F<EEZ,K,EZ>	S244	87-A90-095-080		SW,TACT EVQ11G04M
C341	87-018-209-080		CAP,TC-U 0.1-50 Z F UP050	S245	87-A90-095-080		SW,TACT EVQ11G04M
C522	87-A10-224-040		CAP,E 10-10 7L BP	S246	87-A90-095-080		SW,TACT EVQ11G04M
C523	87-A10-224-040		CAP,E 10-10 7L BP	S247	87-A90-095-080		SW,TACT EVQ11G04M
C524	87-A10-224-040		CAP,E 10-10 7L BP	S248	87-A90-095-080		SW,TACT EVQ11G04M
C525	87-A10-224-040		CAP,E 10-10 7L BP	S249	87-A90-095-080		SW,TACT EVQ11G04M
FFC1	88-914-321-110		FF-CABLE, 14P 1.25	S250	87-A90-095-080		SW,TACT EVQ11G04M
FFC2	88-908-231-110		FF-CABLE, 8P 1.25	S251	87-A90-095-080		SW,TACT EVQ11G04M<EXCEPT U>
FL101	86-AR3-611-010		FL,29U42 100TA	VR501	86-AR4-653-010		VR,RTRY 100K3BM 1 H
L101	87-A50-052-010		COIL,CLOCK 5.76MHZ T1	FRONT-2 C.B			
LED301	87-017-350-080		LED,SEL1550CM PGRN	C401	87-010-597-080		C-CAP,S 0.056-16 K R
LED302	87-017-350-080		LED,SEL1550CM PGRN	C402	87-016-460-080		C-CAP,S 0.22-16 K B
LED303	87-017-350-080		LED,SEL1550CM PGRN	C403	87-016-081-080		C-CAP,S 0.1-16 K R
LED304	87-017-350-080		LED,SEL1550CM PGRN	C404	87-016-460-080		C-CAP,S 0.22-16 K B
LED305	87-017-350-080		LED,SEL1550CM PGRN	C405	87-010-597-080		C-CAP,S 0.056-16 K R
LED306	87-017-350-080		LED,SEL1550CM PGRN	C406	87-010-182-080		C-CAP,S 2200P-50 K B
LED307	87-017-350-080		LED,SEL1550CM PGRN	C407	87-010-545-040		CAP,E 0.22-50 SME
LED308	87-017-350-080		LED,SEL1550CM PGRN	C408	87-010-402-040		CAP,E 2.2-50 SME
LED309	87-017-350-080		LED,SEL1550CM PGRN	C409	87-012-154-080		C-CAP,S 150P-50 J CH GRM
LED310	87-017-350-080		LED,SEL1550CM PGRN	C410	87-012-154-080		C-CAP,S 150P-50 J CH GRM
LED311	87-017-350-080		LED,SEL1550CM PGRN	C413	87-010-402-040		CAP,E 2.2-50 SME
LED312	87-017-350-080		LED,SEL1550CM PGRN	C414	87-010-405-040		CAP,E 10-50 SME
LED313	87-017-350-080		LED,SEL1550CM PGRN	C415	87-010-408-040		CAP,E 47-50 SME
LED314	87-017-350-080		LED,SEL1550CM PGRN	C416	87-010-401-040		CAP,E 1-50 SME
LED315	87-017-350-080		LED,SEL1550CM PGRN	C417	87-010-545-040		CAP,E 0.22-50 SME
LED316	87-017-350-080		LED,SEL1550CM PGRN				
LED317	87-001-123-080		LED,SLZ-981C-02 RED				

REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C418	87-010-182-080		C-CAP,S 2200P-50 K B	C618	87-010-197-080		C-CAP,S 0.01-25 K B<EEZ,K,EZ>
C419	87-010-263-040		CAP,E 100-10 SME	C619	87-010-197-080		C-CAP,S 0.01-25 K B<EEZ,K,EZ>
C421	87-010-196-080		C-CAP,S 0.1-25 Z F	C620	87-010-197-080		C-CAP,S 0.01-25 K B<EEZ,K,EZ>
C501	87-010-384-040		CAP,E 100-25 SME	C621	87-010-196-080		C-CAP,S 0.1-25 K B<EEZ,K,EZ>
C502	87-010-263-040		CAP,E 100-10 SME	C622	87-010-196-080		C-CAP,S 0.1-25 K B<EEZ,K,EZ>
C503	87-015-692-040		CAP,E 0.22-50 7L SRA	C623	87-010-196-080		C-CAP,S 0.1-25 K B<EEZ,K,EZ>
C505	87-015-692-040		CAP,E 0.22-50 7L SRA	C624	87-010-196-080		C-CAP,S 0.1-25 K B<EEZ,K,EZ>
C509	87-012-154-080		C-CAP,S 150P-50 J CH GRM	J601	87-A60-244-010		JACK,PIN 1P BLK
C510	87-012-153-080		C-CAP,S 120P-50 J CH GRM	J602	87-A60-199-010		TERMINAL,SP 8P CJ-9034-07 V0
C521	87-010-196-080		C-CAP,S 0.1-25 Z F	J603	87-A60-200-110		TERMINAL,SP 6P CJ-9033-21-3 V0
MVR501	86-AR4-669-010		VR,MOT 50KBX4 1 H	L361	87-003-383-010		COIL,1UH K
CD FRONT C.B				L362	87-003-383-010		COIL,1UH K
C601	87-018-209-080		CAP,TC-U 0.1-50 Z F UP050	L363	87-003-383-010		COIL,1UH K
LED601	87-070-201-080		LED,SLP-9118C-51-S RED	L364	87-003-383-010		COIL,1UH K
LED602	87-070-201-080		LED,SLP-9118C-51-S RED	L601	87-003-383-010		COIL,1UH K
LED603	87-070-201-080		LED,SLP-9118C-51-S RED	L602	87-003-383-010		COIL,1UH K
LED604	87-070-201-080		LED,SLP-9118C-51-S RED	AC1 C.B<U,EEZ,K,EZ>			
LED605	87-070-201-080		LED,SLP-9118C-51-S RED	△	82-304-743-010		TERMINAL,1P<U,EEZ,K,EZ>
LED606	87-017-350-080		LED,SEL1550CM PGRN	△F103	87-035-369-010		FUSE,5A 250V T<EEZ,K,EZ>
LED607	87-017-350-080		LED,SEL1550CM PGRN	△F103	87-035-493-010		FUSE,8A 125V T 237<U>
LED608	87-017-350-080		LED,SEL1550CM PGRN	AC2 C.B			
LED609	87-017-350-080		LED,SEL1550CM PGRN	△F102	87-026-691-080		FUSE,10A 125V 251<U>
S601	87-A90-095-080		SW,TACT EVQ11G04M	△F103	87-026-691-080		FUSE,10A 125V 251<U>
S602	87-A90-095-080		SW,TACT EVQ11G04M	△PR102	87-026-682-080		PROTECTOR,10A 60V<EXCEPT U>
S603	87-A90-095-080		SW,TACT EVQ11G04M	△PR103	87-026-682-080		PROTECTOR,10A 60V<EXCEPT U>
S604	87-A90-095-080		SW,TACT EVQ11G04M	△PT101	86-AR4-638-010		PT,EZ EI96-70 6AR-4<EEZ,K,EZ>
S605	87-A90-095-080		SW,TACT EVQ11G04M	△PT101	86-AR4-637-010		PT,HE EI96-70 6AR-4<HE,HR>
S606	87-A90-095-080		SW,TACT EVQ11G04M	△PT101	86-AR4-636-010		PT,U EI85-80 6AR-4<U>
S607	87-A90-095-080		SW,TACT EVQ11G04M	PT C.B<HE,HR>			
S608	87-A90-095-080		SW,TACT EVQ11G04M	△	82-304-743-010		TERMINAL,1P<HE,HR>
S609	87-A90-095-080		SW,TACT EVQ11G04M	△F106	87-035-369-010		FUSE,5A 250V T<HE,HR>
S610	87-A90-095-080		SW,TACT EVQ11G04M	△F107	87-035-369-010		FUSE,5A 250V T<HE,HR>
S611	87-A90-095-080		SW,TACT EVQ11G04M	SW C.B<HE,HR>			
SPEAKER C.B				△S11	87-036-173-010		SW,SL 2-2-4 SDKG<HE,HR>
C375	87-010-196-080		C-CAP,S 0.1-25 Z F	CD MAIN C.B			
C376	87-010-196-080		C-CAP,S 0.1-25 Z F	LED C.B			
C377	87-010-196-080		C-CAP,S 0.1-25 Z F	T-T C.B			
C378	87-010-196-080		C-CAP,S 0.1-25 Z F	CD MOTOR C.B			
C379	87-010-196-080		C-CAP,S 0.1-25 Z F				
C380	87-010-196-080		C-CAP,S 0.1-25 Z F				
C381	87-010-196-080		C-CAP,S 0.1-25 Z F				
C382	87-010-196-080		C-CAP,S 0.1-25 Z F				
C611	87-010-196-080		C-CAP,S 0.1-25 Z F				
C612	87-010-196-080		C-CAP,S 0.1-25 Z F				
C613	87-010-196-080		C-CAP,S 0.1-25 Z F				
C614	87-010-196-080		C-CAP,S 0.1-25 Z F				
C615	87-010-197-080		C-CAP,S 0.01-25 K B<EEZ,K,EZ>				
C616	87-010-197-080		C-CAP,S 0.01-25 K B<EEZ,K,EZ>				
C617	87-010-197-080		C-CAP,S 0.01-25 K B<EEZ,K,EZ>				

○ チップ抵抗部品コード / CHIP RESISTOR PART CODE

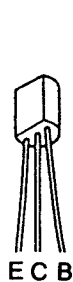
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード : A Resistor Code: A
				外形／Form	L	W	t	
1／16W	1608	±5%	CJ		1.6	0.8	0.45	108
1／10W	2125	±5%	CJ		2	1.25	0.45	118
1／8W	3216	±5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



2SA952
2SA970
2SA1318
2SC1740
2SC3266
CSD655
KTC3198



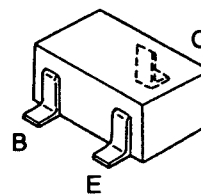
DTA114ES
DTA114YS



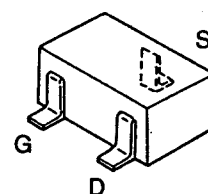
2SB1370



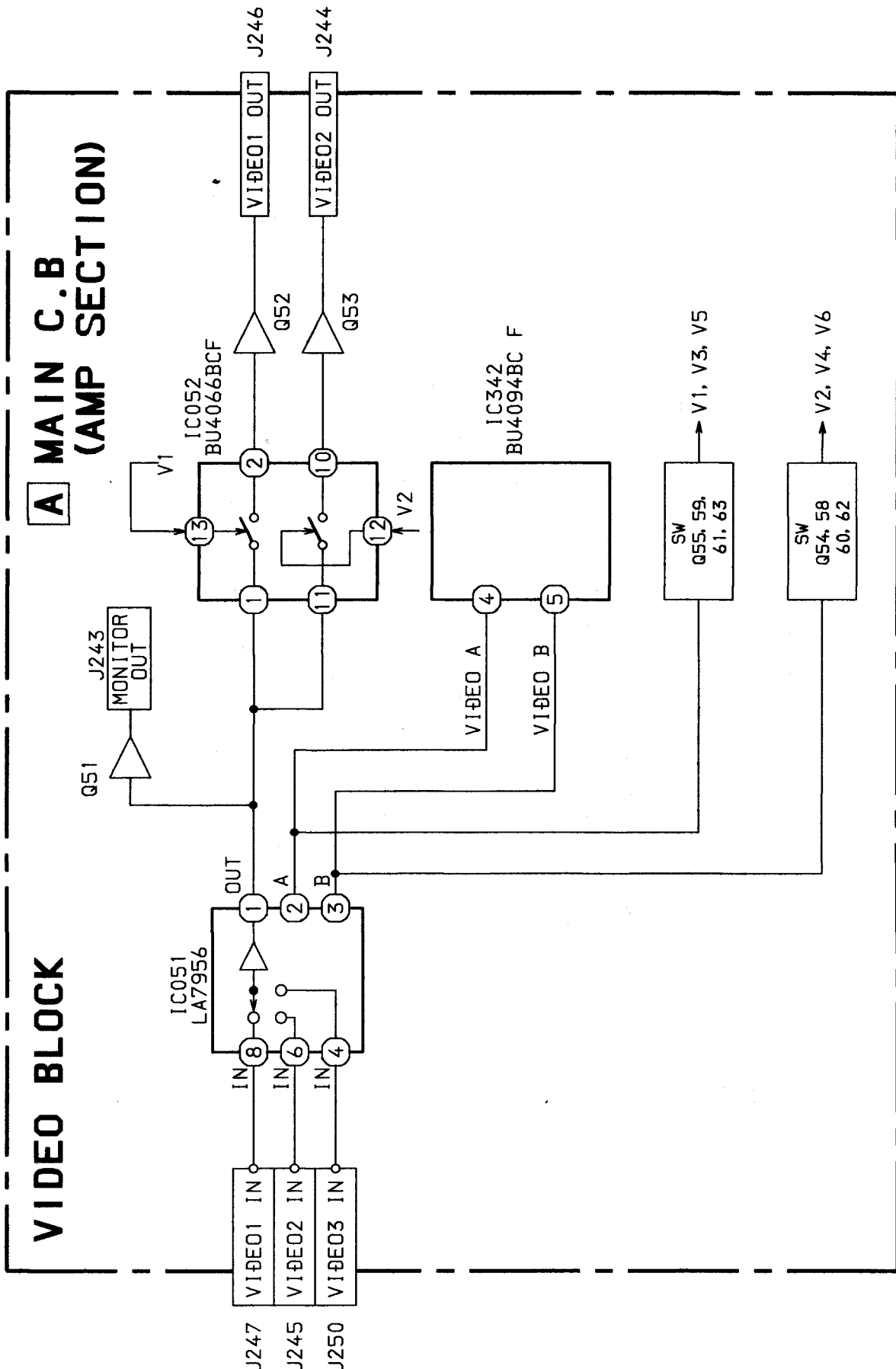
2SB1329

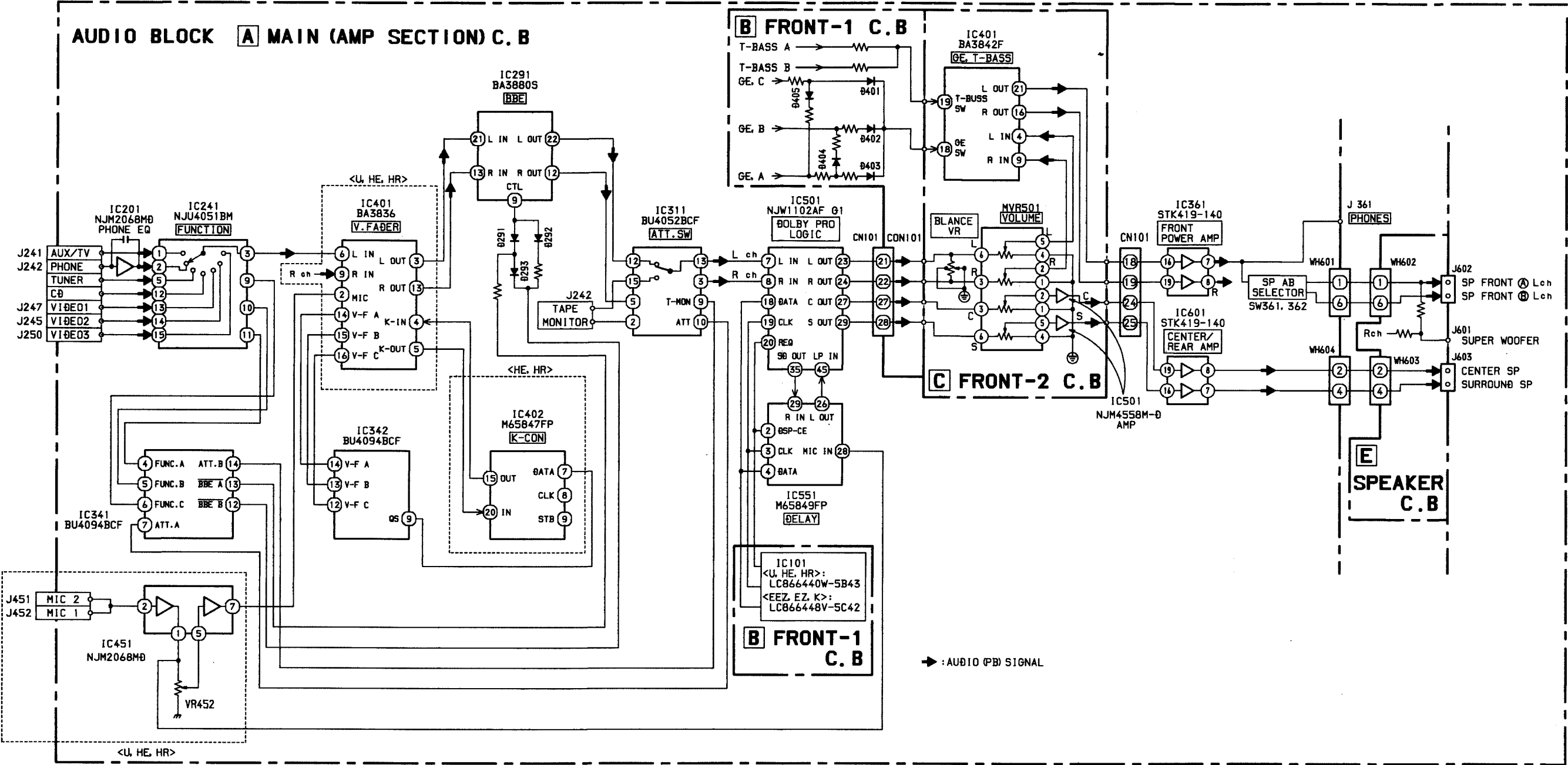


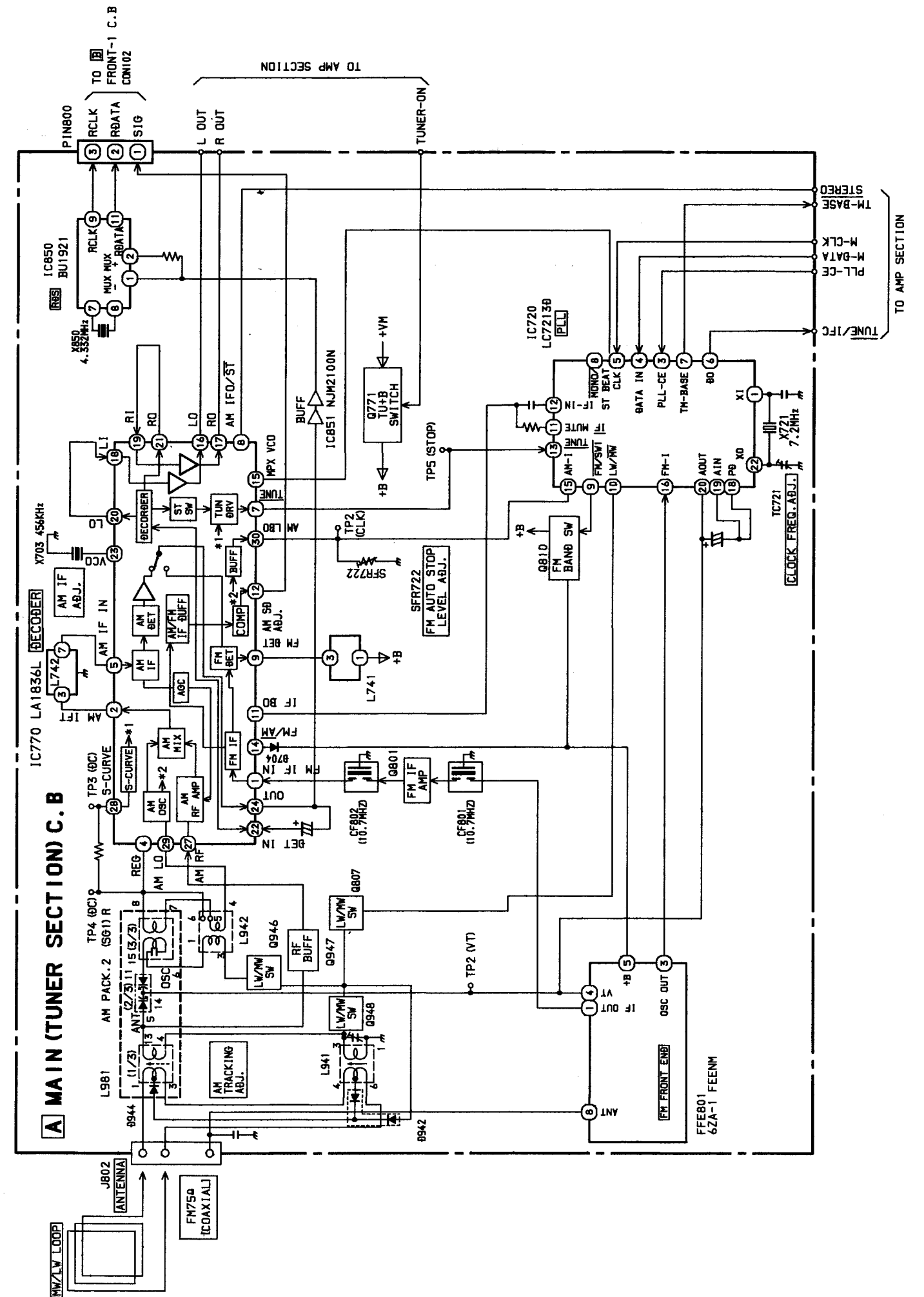
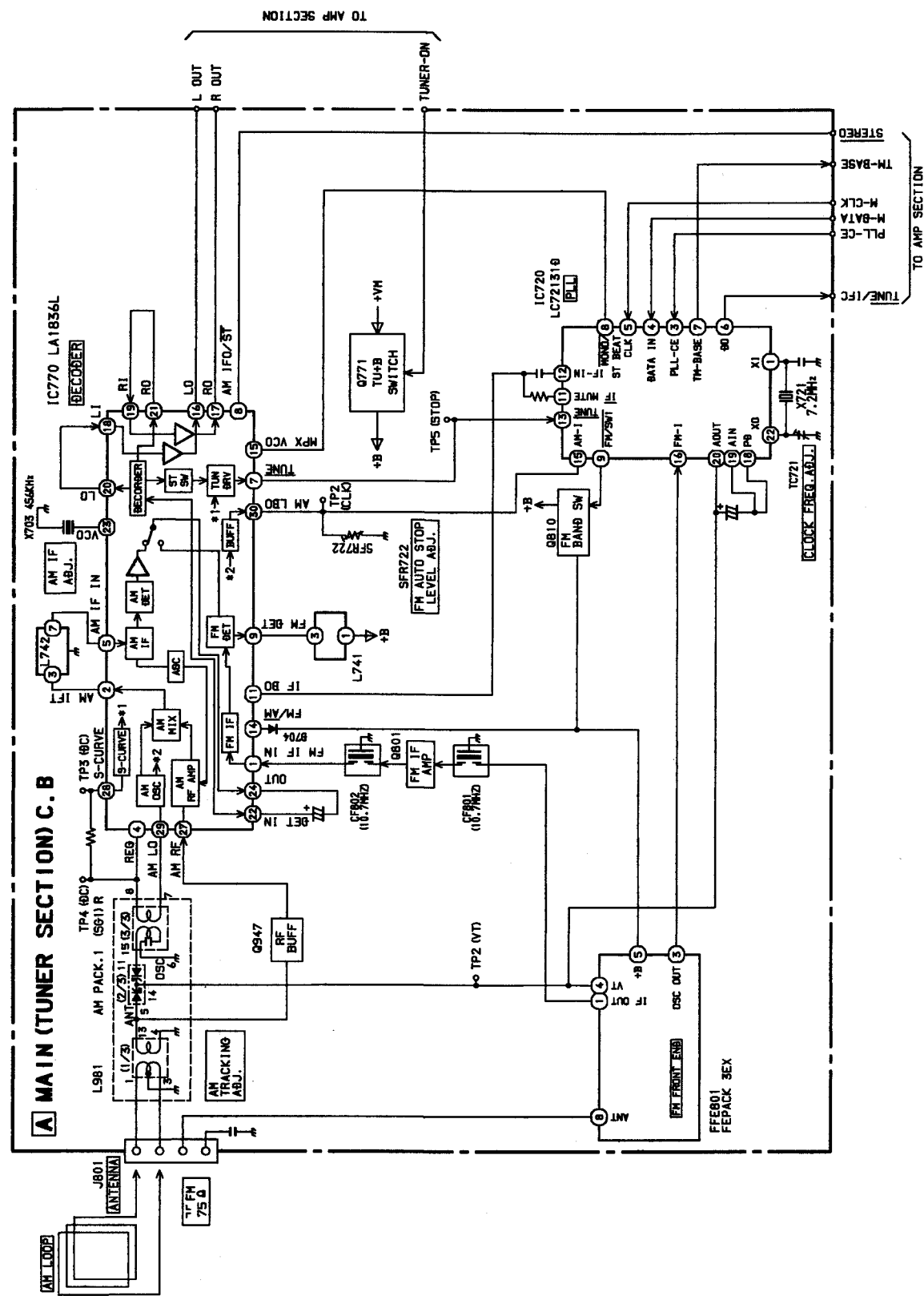
2SA1162
2SC2712
2SC2714
2SC3722
2SD2114
DTA114YK
DTA124EK
DTA144WK
DTC124EK
DTC144EK
DTC144WK

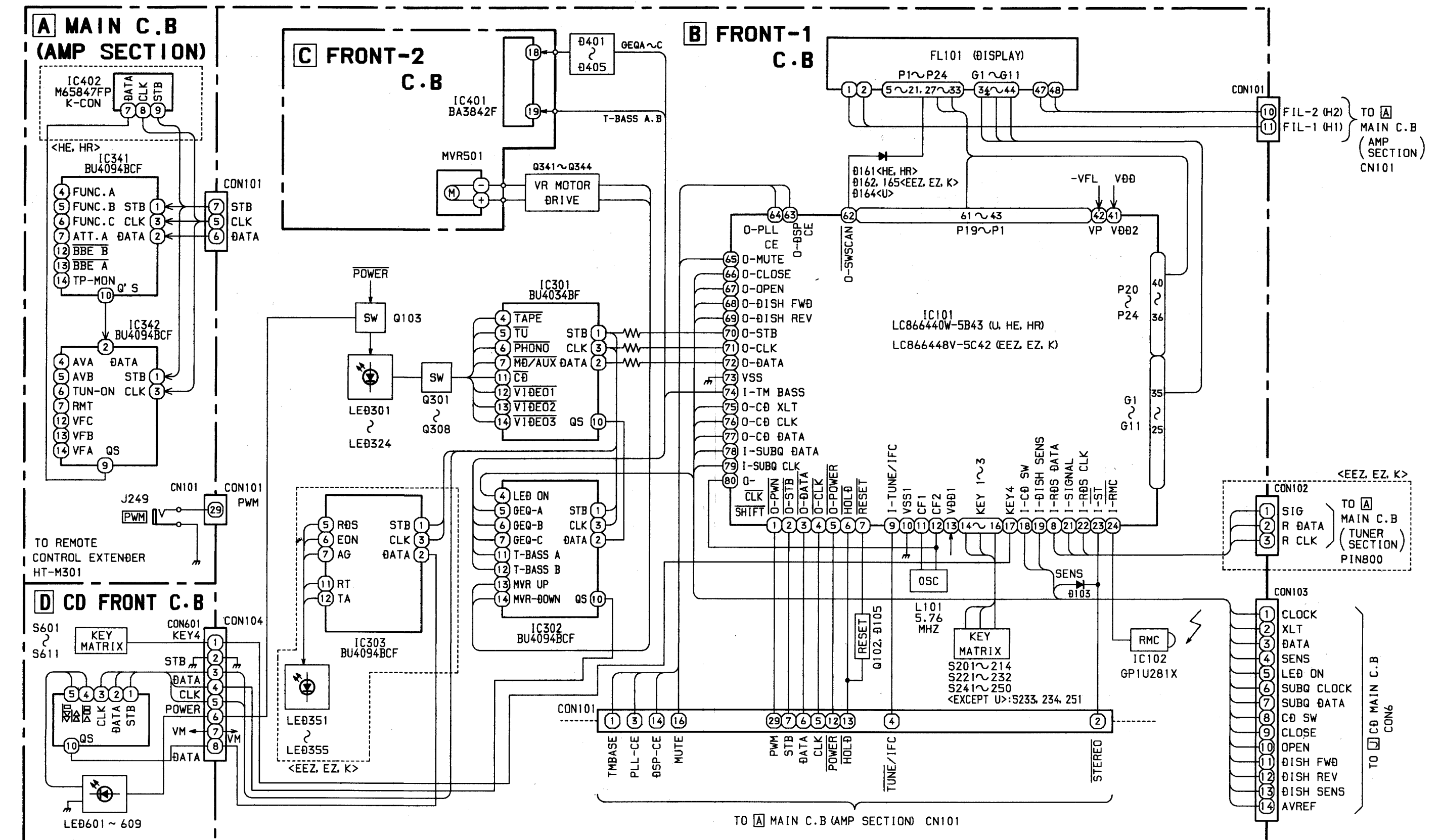


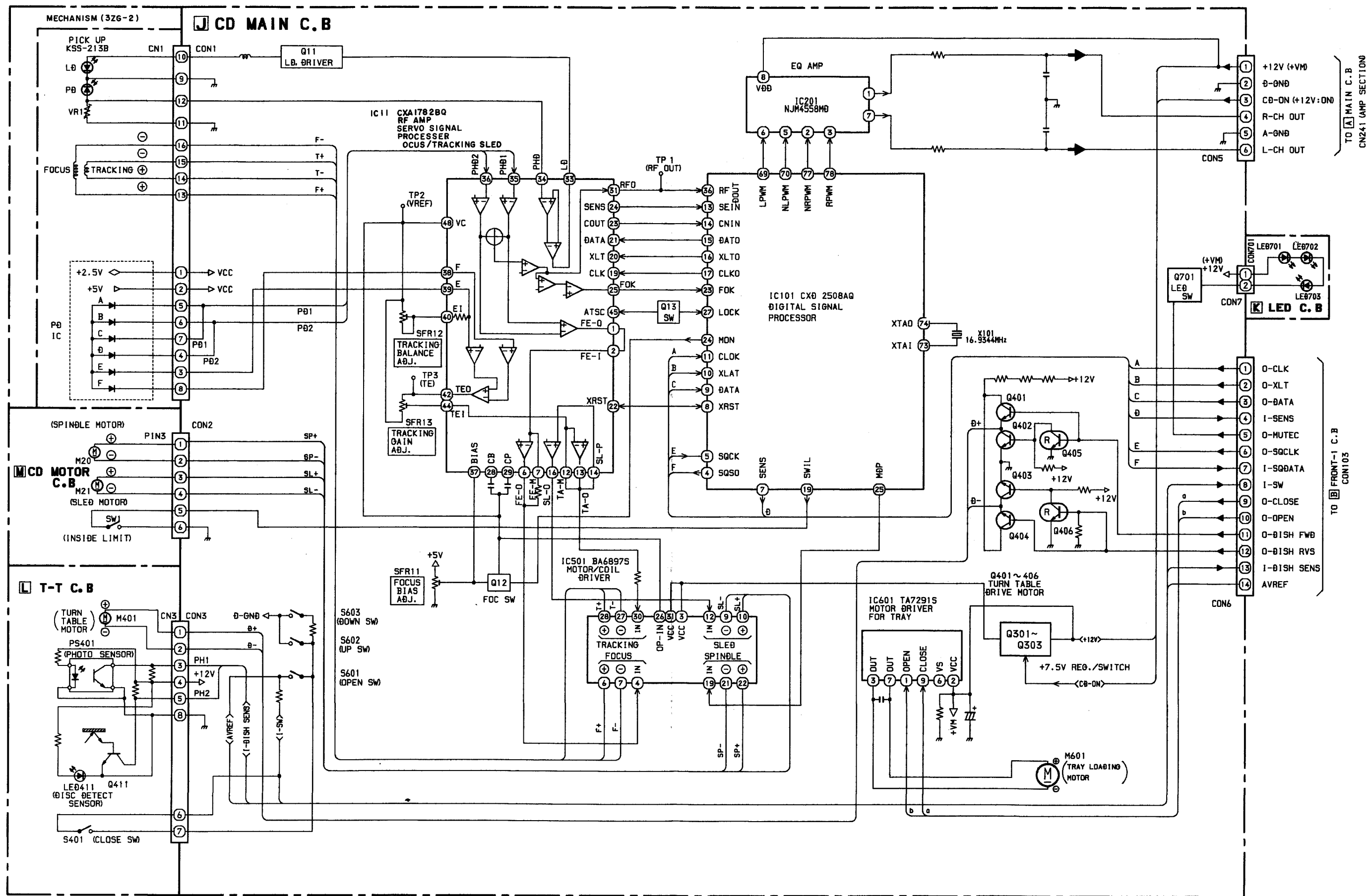
2SK543



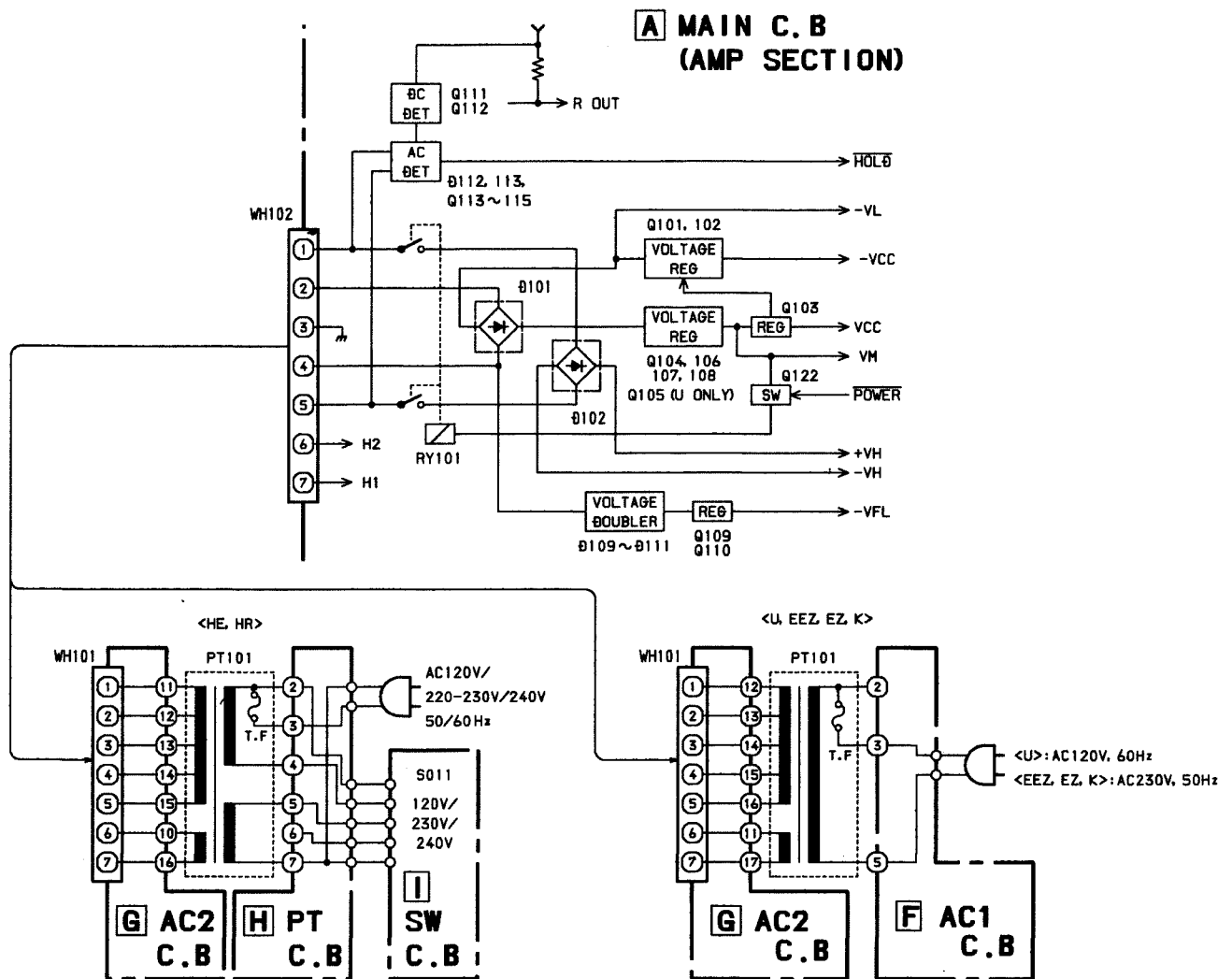


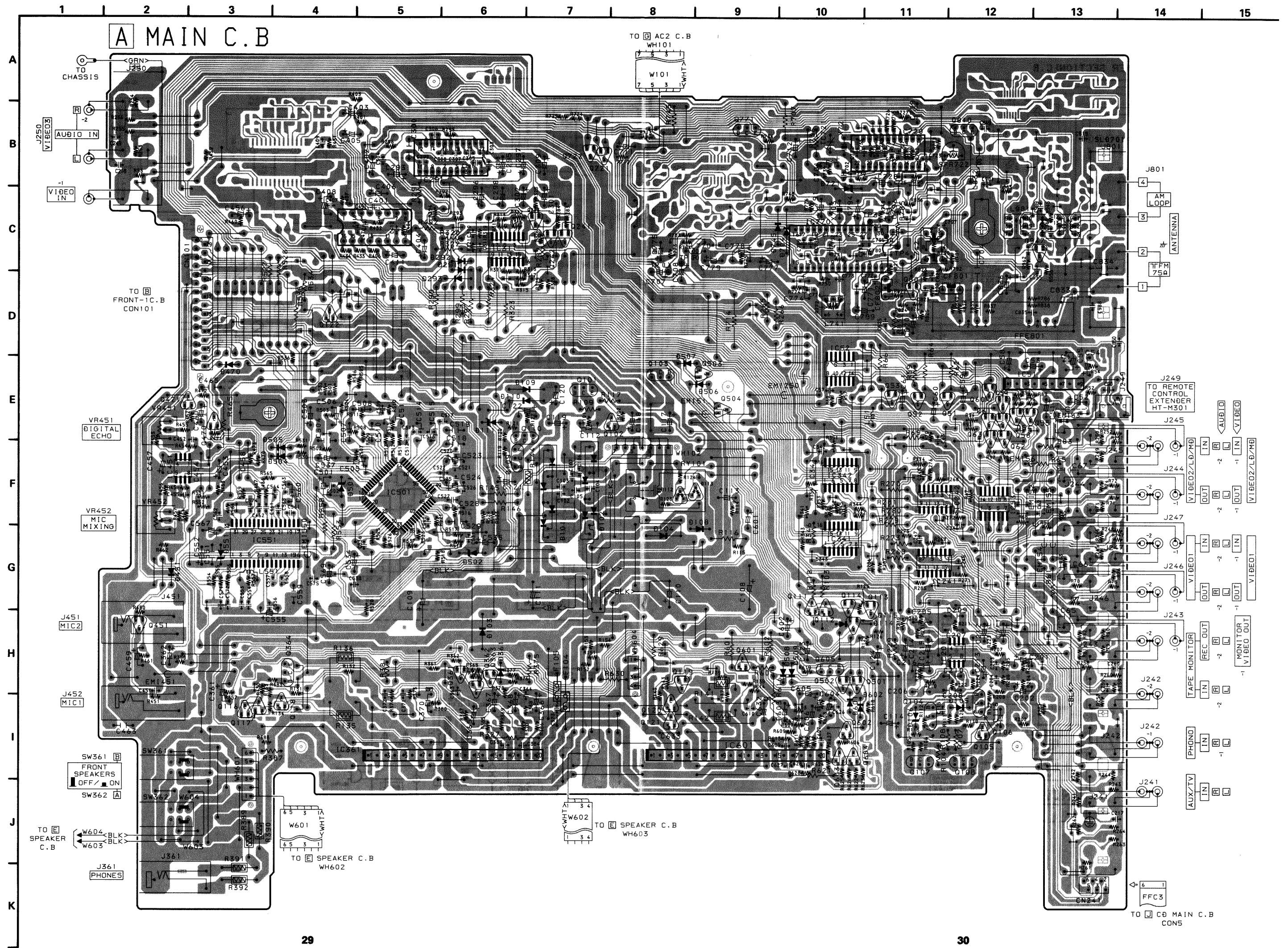




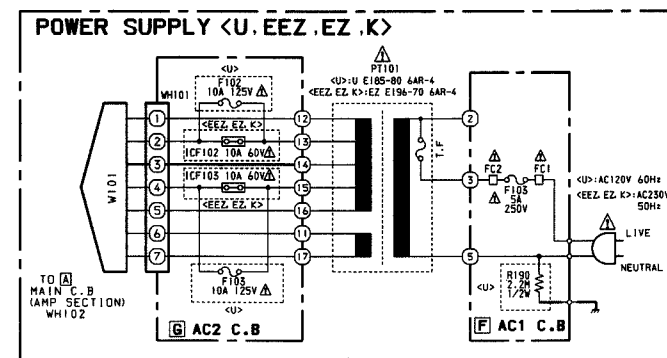
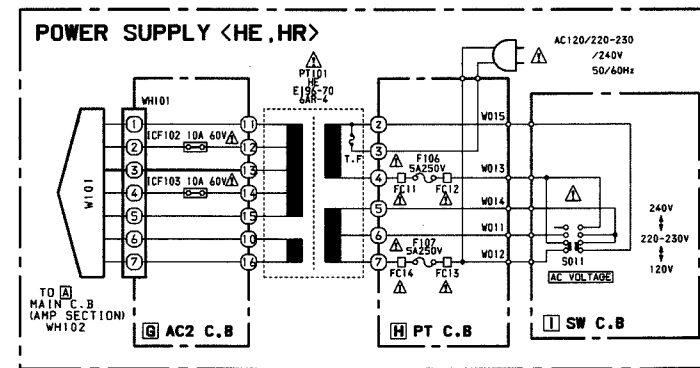
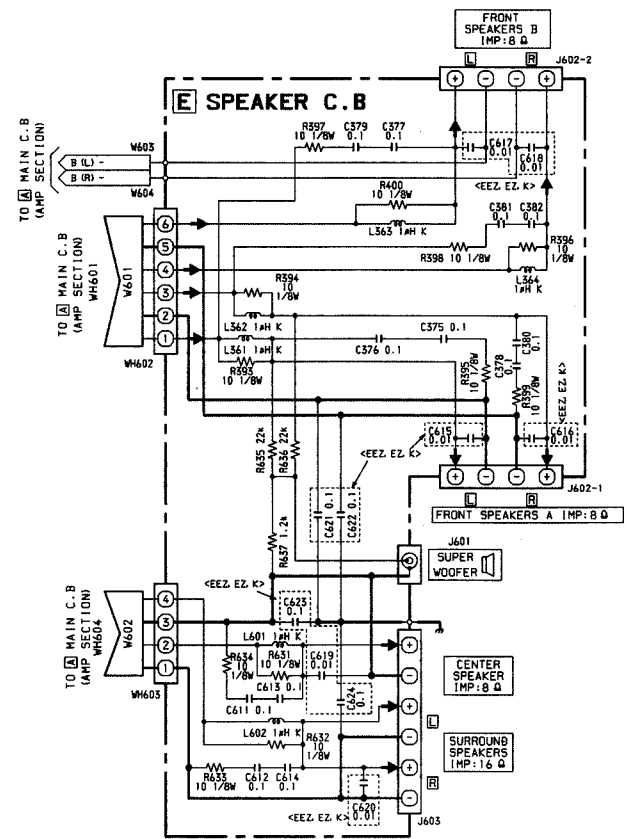
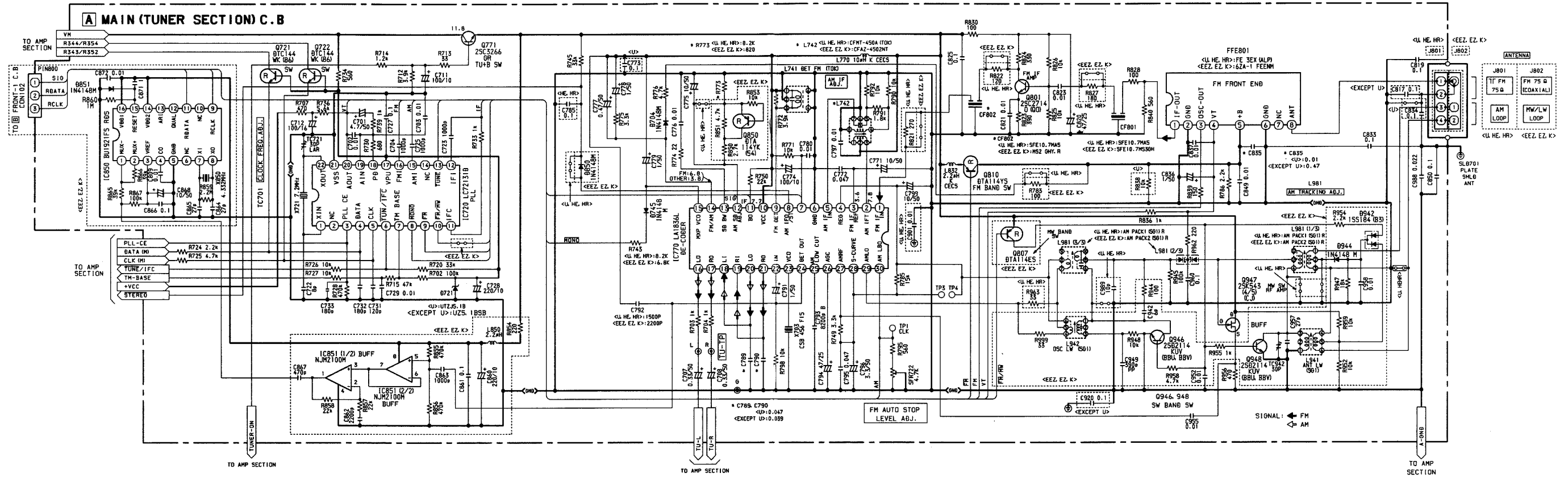


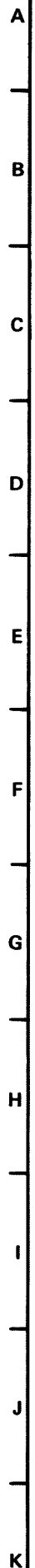
BLOCK DIAGRAM - 7 (PS SECTION)

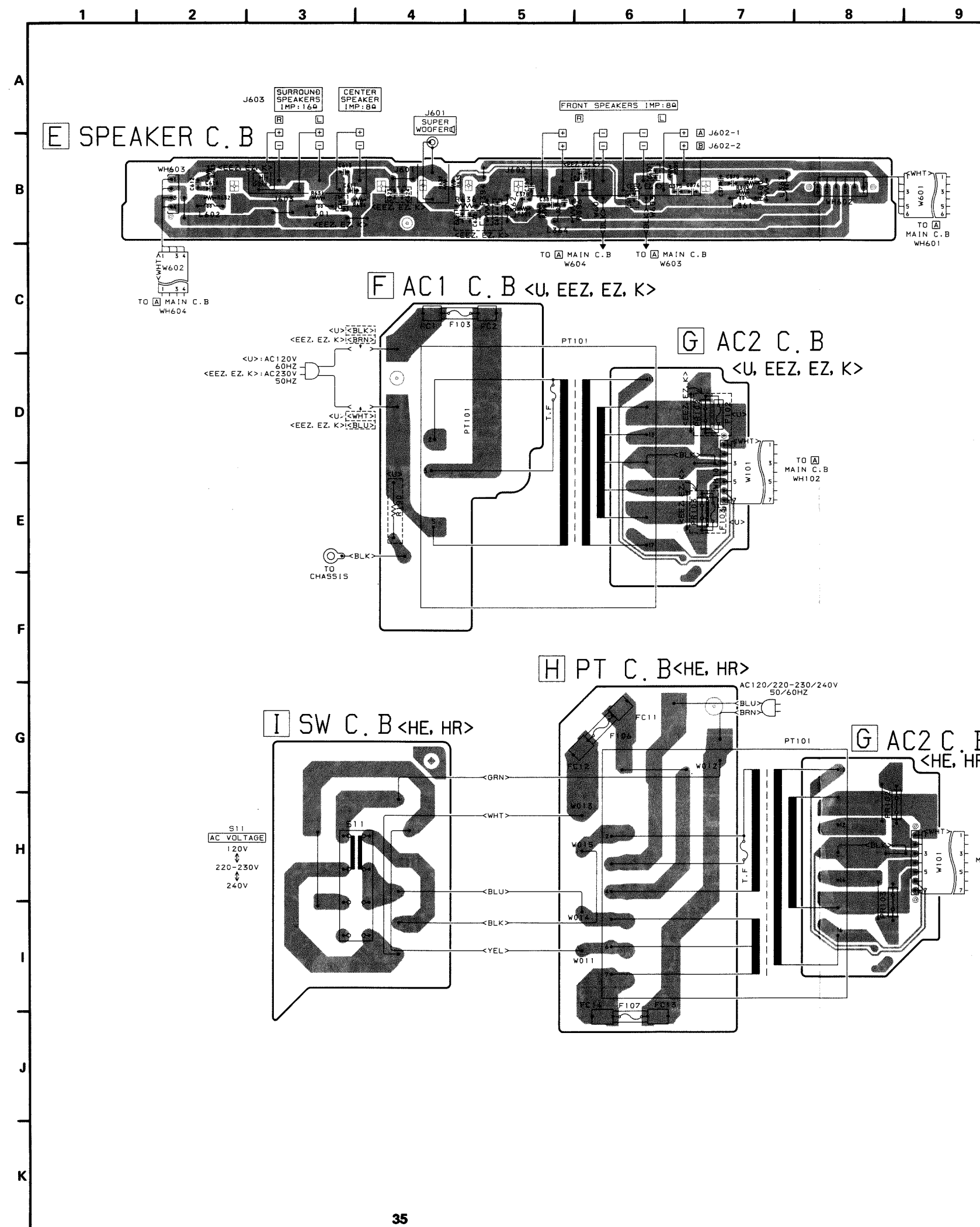




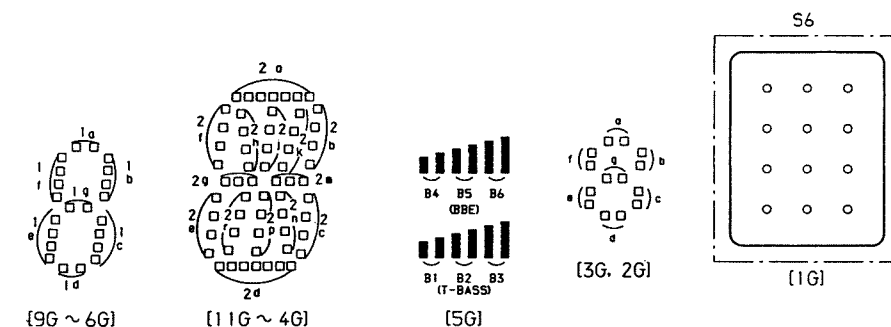
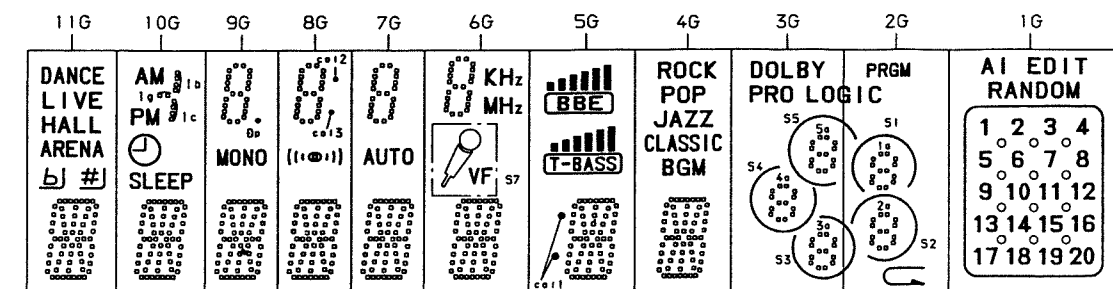
SCHEMATIC DIAGRAM - 2 (TUNER, PT, SPEAKER SECTION) < U >



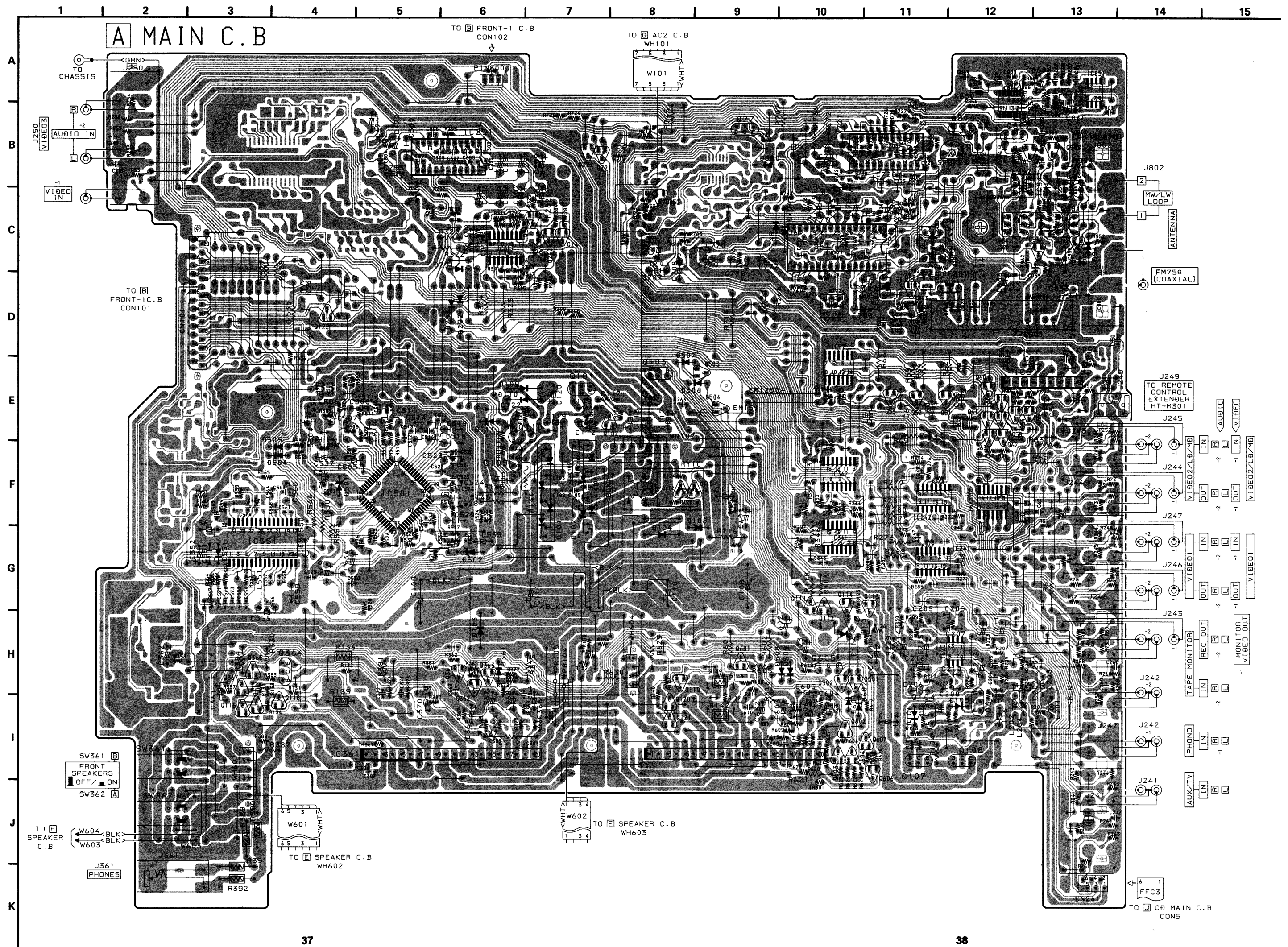


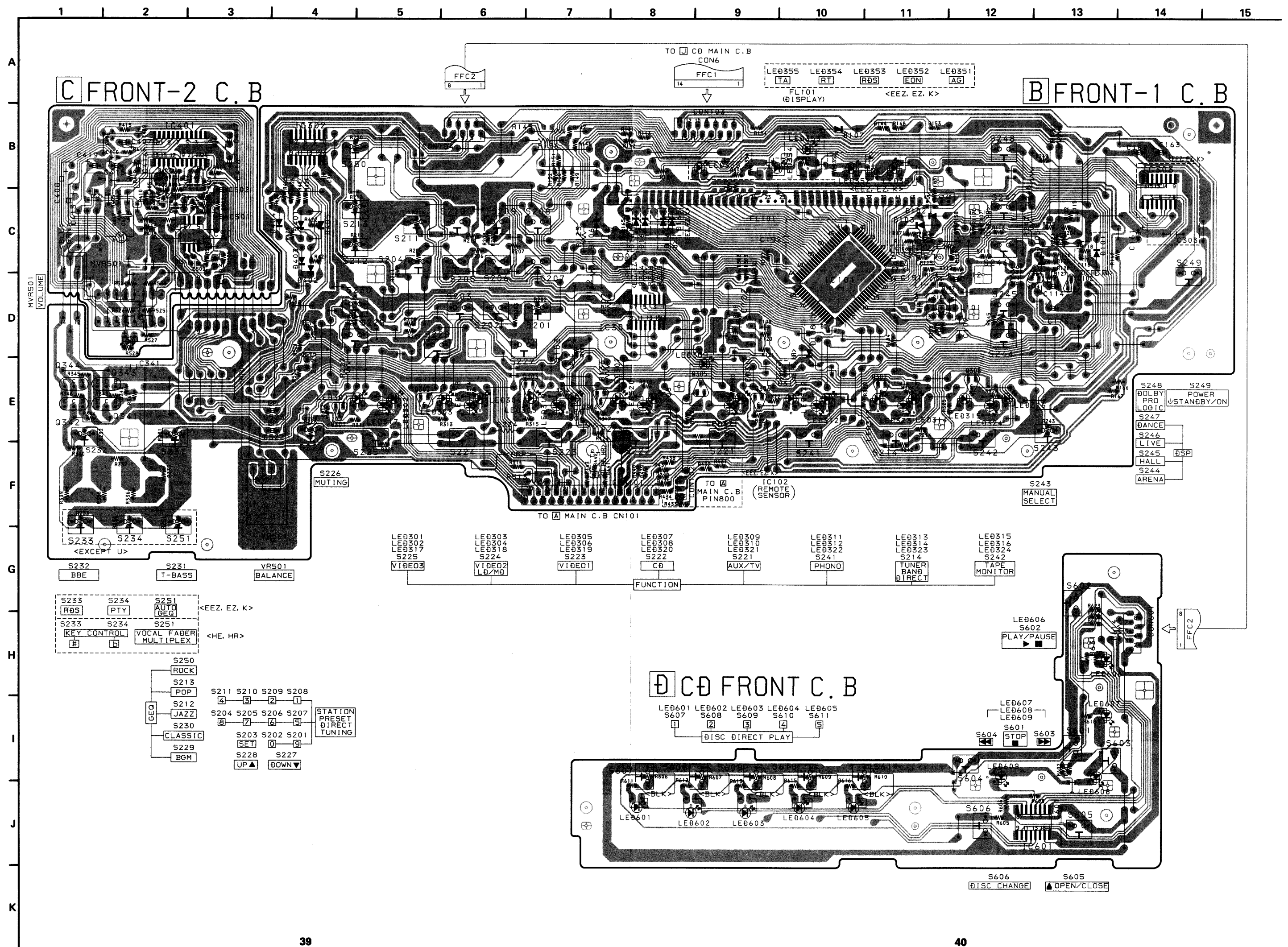


LCD DISPLAY

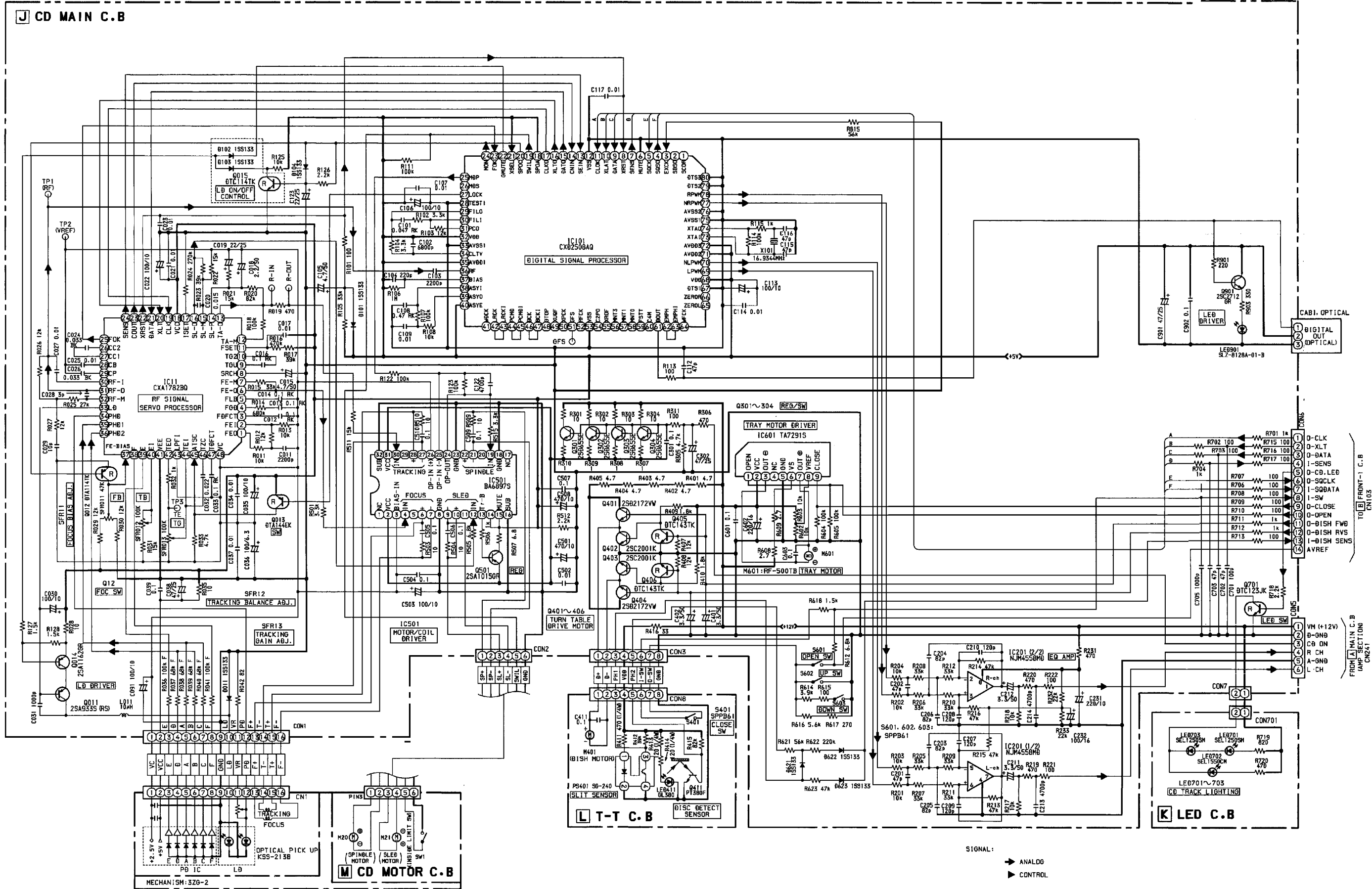


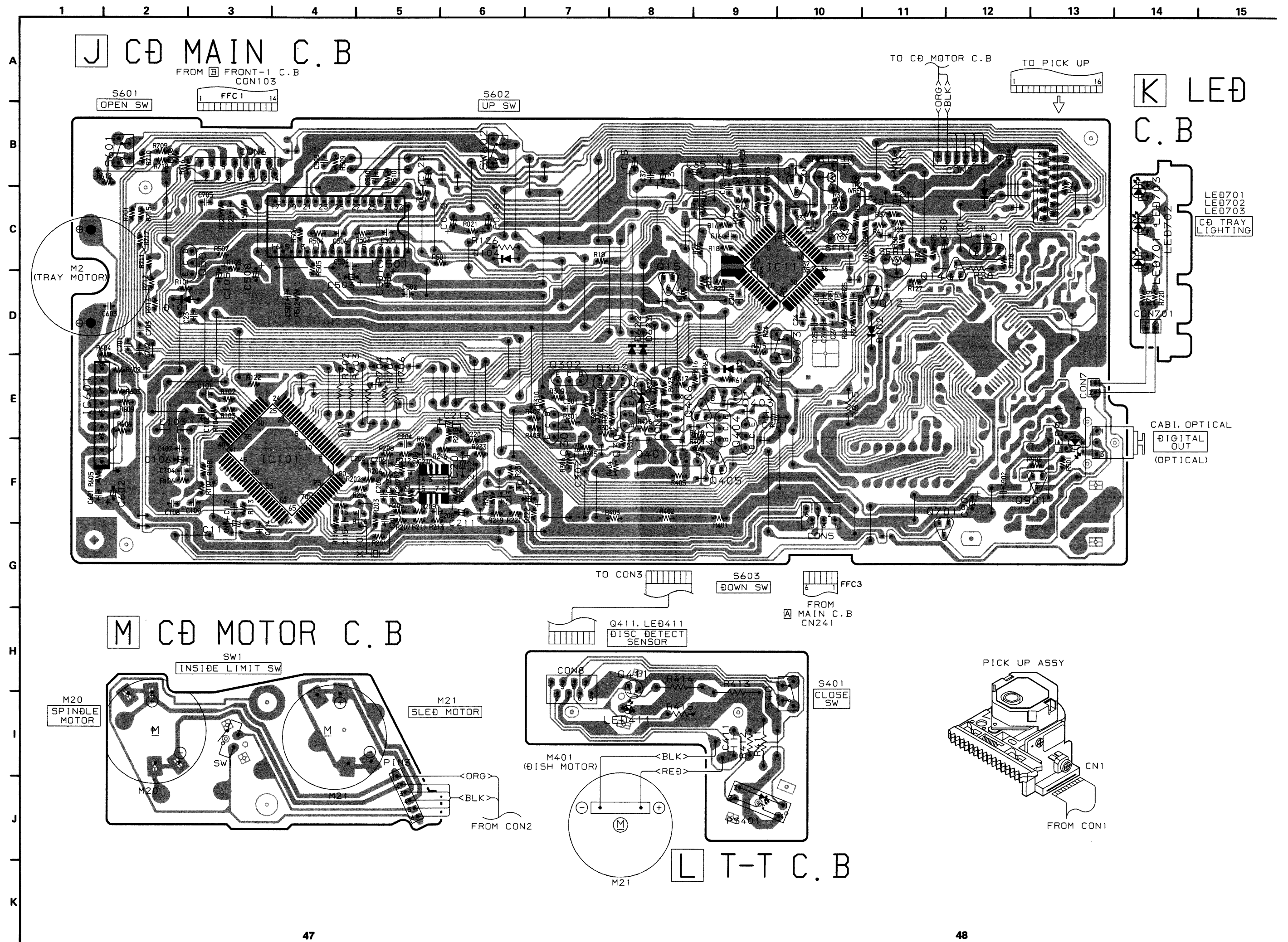
	11G	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	2d	2d	2d	2d	2d	2d	2d	2d	S3		20
P2	2n	2n	2n	2n	2n	2n	2n	2n	3a, 3d		19
P3	2p	2p	2p	2p	2p	2p	2p	2p	3e	2a, 2d	18
P4	2r	2r	2r	2r	2r	2r	2r	2r	3c	2e	17
P5	2e	2e	2e	2e	2e	2e	2e	2e	3g	2c	16
P6	2c	2c	2c	2c	2c	2c	2c	2c	3f	2g	15
P7	2q	2q	2q	2q	2q	2q	2q	2q	3b	2f	14
P8	2m	2m	2m	2m	2m	2m	2m	2m	S4	2b	13
P9	2f	2f	2f	2f	2f	2f	2f	2f	S2		12
P10	2b	2b	2b	2b	2b	2b	2b	2b	4a, 4d		11
P11	2k	2k	2k	2k	2k	2k	2k	2k	4e		10
P12	2j	2j	2j	2j	2j	2j	2j	2j	4c		9
P13	2h	2h	2h	2h	2h	2h	2h	2h	4g		8
P14	2a	2a	2a	2a	2a	2a	2a	2a	4f		7
P15	b #	SLEEP	MONO	((()))	AUTO	S7	coil	BGM	4b	PRGM	6
P16	[#]	PM		col2		MHz	T-BASS	CLASSIC	S5		5
P17	[b]	PM		col3		KHz	B1	JAZZ	S1		4
P18	ARENA	1g	1d	1d	1d	1d	B2	POP	5a, 5d	1a, 1d	3
P19	HALL	1c	1e	1e	1e	1e	B3	ROCK	5e	1e	2
P20	LIVE	1b	1c	1c	1c	1c	BBE		5c	1c	1
P21	DANCE	AM	1g	1g	1g	1g	B4		5g	1g	RANDOM
P22			1f	1f	1f	1f	B5		5f	1f	EDIT
P23			1b	1b	1b	1b	B6		5b	1b	AI
P24			1a	1a	1a	1a			DOLBY PRO LOGIC	S6	











IC DESCRIPTION

IC, LC866440W-5B43 / LC866448W-5C42

Pin No.	Pin Name	I/O	Description
1	O-PWM	O	Learning remote control. PWM data output.
2	O-STB	O	Main shift resistor data latch strobe output.
3	O-DATA	O	Main shift resistor data output.
4	O-CLK	O	Main shift resistor, data transfer clock output.
5	O-POWER	O	System power supply ON / OFF output.
6	O-HOLD	O	Power failure detected output.
7	RESET	I	Reset input.
8	I-RDS DATA	I	RDS data input.
9	I-TUNE/IFC	I	Tuner SD detected input. IF count serial data input.
10	VSS1	-	Power pin (-).
11~12	CF1~2	-	5.7MHz oscillator circuit.
13	VDD1	-	Power supply input.
14~17	I-KEY1~4	I	Key input. (A/D)
18	I-CS SW	I	CD mechanism switch A/D converter input.
19	I-DISH SENS	I	CD turn table photo sensor and disk detect A/D converter input.
20	I-MIC	I	Microphone input for auto VF display.
21	I-SIG	I	RDS signal input.
22	I-RDS CLK	I	RDS clock input.
23	I-CD SENS	I	CD SENS / TUNER STEREO detect input.
24	I-RMC	I	System remote control signal input.
25 ~ 35	G11~G1	O	FL grid output G11 ~ G1.
36 ~ 40	S24 ~ S20	O	FL segment output S24 ~ S20.
41	VDD2	-	Power supply input.
42	VP	-	Power supply input (-34.5V) for FL display .
43 ~ 51	S19 ~ S11	I/O	FL segment output S19 ~ S11.
52 ~ 61	S1 ~ S10	I/O	FL segment output S1 ~ S10.
62	O-SW SCAN	O	Switch scan timing output.
63	O-DSP CE	O	DSP IC data latch strobe output.
64	O-PLL CE	O	PLL IC chip enable output.
65	O-MUTE	O	System mute output.
66	O-CLOSE	O	Tray close control output.
67	O-OPEN	O	Tray open control output.
68	O-DISH FWD	O	Dish FWD control output.
69	O-DISH REV	O	Dish REV control output.
70	O-F STROBE	O	Front shift register, data latch strobe output.
71	O-F CLK	O	Front shift register, data transfer clock output.
72	O-F DATA	O	Front shift register, data output.
73	VSS	-	Power pin (-).
74	I-TM BASE	I	Reference clock input for timer watch.

Pin No.	Pin Name	I/O	Description
75	O-CD XLT	O	CD XLT output.
76	O-CD CLK	O	CD clock output.
77	O-CD DATA	O	CD data output.
78	I-SUBQ DATA	I	CD SUBQ data input.
79	O-SUBQ CLK	O	CD SUBQ data output.
80	<u>O-CLOCK SHIFT</u>	O	Clock shift output. (Active "L")

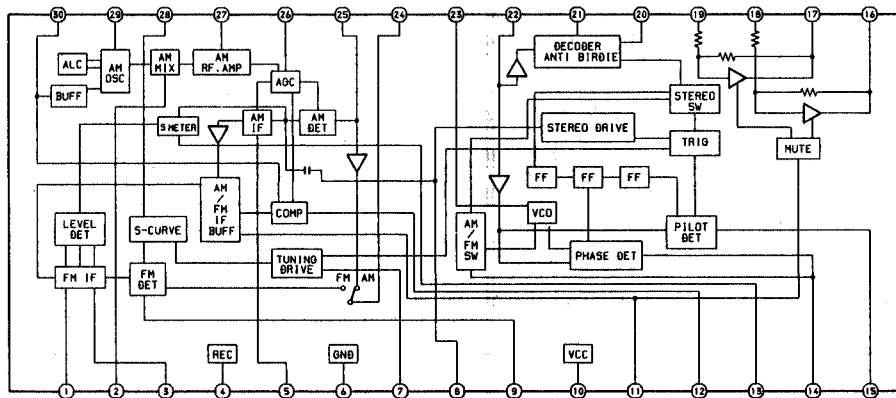
See the 4ZG-1 /1S /1T (S/M Code No.09-95C-124-90T) for the IC DESCRIPTION and IC BLOCK DIAGRAM below.		
AV-X300	4ZG-1 / 1S / 1T	
CXD2508AQ	CXD2508AQ	P129~130
CXA1782BQ	CXA1782BQ	P23~24
TA7291S	TA7291S	P30
BA6897	BA6897	P110

IC, NJW1102AFG1

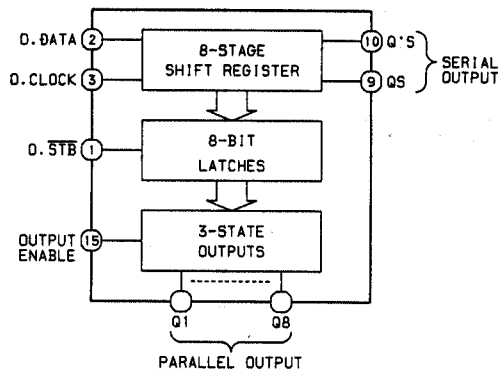
Pin No.	Pin Name	I/O	Description
1	LLI	I	Lch BPF in.
2	LBPF	O	Lch BPF feed back out.
3	RLI	I	Rch BPF in.
4	RBPF	O	Rch BPF feed back out.
5	LT	O	Lch selector #1 out.
6	RT	O	Rch selector #1 out.
7	L-IN	I	Lch signal input.
8	R-IN	I	Rch signal input.
9	HOLD C	I	Auto input balance control.
10	VCC	–	Power supply.
11~13	NGC 3~1	I	Noise sequencer control.
14,15	NC	–	Not connect.
16	VDD	–	Power supply.
17	NC	–	Not used.
18	DATA	I	Serial data input.
19	SCK	I	Serial clock input.
20	REQ	I	Serial request (strobe) input.
21	IDS	I	IC select sw.
22	VSS	–	GND.
23	L-OUT	O	Lch serial output.
24	R-OUT	O	Rch serial output.
25	C-MUT	O	CENTER MUTE output (serial data change parallel output).
26	CT	O	Cch output (before trimmer).
27	C-OUT	O	Cch output (after trimmer).
28	ST	O	Sch output (before trimmer).
29	S-OUT	O	Sch output (after trimmer).
30	CMC	I	Center mode control.
31	SMRO	O	Sch amp (front L,R mix) output.
32	NC	–	Not used.
33	SMRI	I	Sch amp (front L,R mix) input.
34	S-MUT	O	SURROUND MUTE output (serial data change parallel output).
35	SD	O	Selector #2 output (to delay IC).
36	SIMB	I	Selector #2 input B (L-R).
37	SILA	I	Selector #2 input A (L+R).
38	L+R	O	L+R ch output.
39	L-R	O	L-R ch output.
40	GND	–	Gnd.
41	VREF	I	VREF in.
42	VREFO	O	Vref out.
43	IREF	I	Iref in.
44	DB-IN	O	Output to modify dolby B IC (included NJW1102).
45	LP-IN	I	From delay input.
46~48	DBC 1~3	I	Dolby B NR control.
49	NC	–	Not used.
50~55	PSC 1~6	I	Dual time constant and threshold switches control.
56~63	RLC 1~8	I	Full wave rectifier and log difference amp control.
64	NC	–	Not used.

IC BLOCK DIAGRAM

IC, LA1836L



IC, BU4094BCF



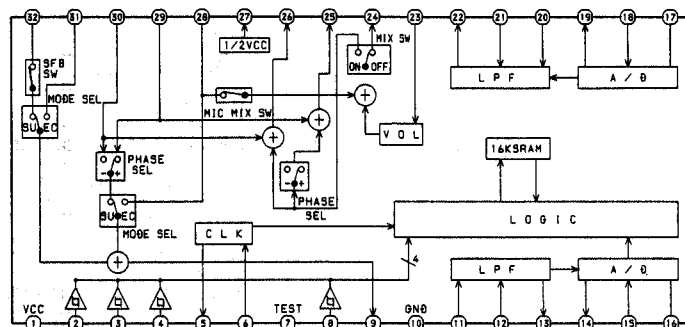
Q1: 0. 00LBY ON Q5: 0. PLAY
Q2: 0. 00LBY C Q6: 0. PB2
Q3: 0. EXT. REC Q7: 0. LED
Q4: 0. INT. REC Q8: 0. RMT

TRUTH TABLE

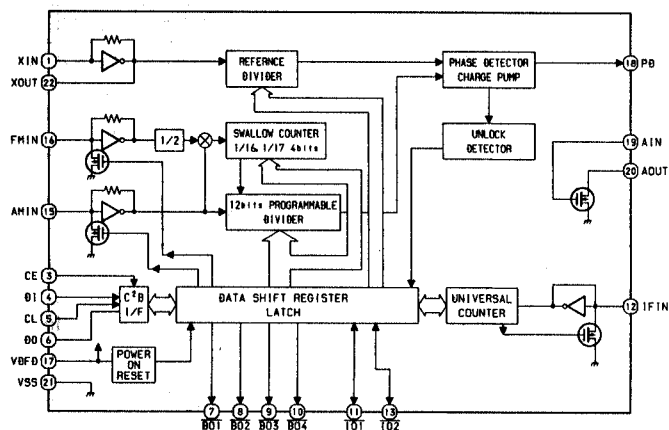
CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS	SERIAL OUTPUTS
				Q1 Qn Q5	Q'S Q'S
$\overline{L}$	L	x	x	Z Z Z	NO CHG. Q5
$\overline{L}$	L	x	x	Z Z Z	NO CHG. Q5
$\overline{L}$	L	L	x	NO CHG. NO CHG.	Q7 NO CHG.
$\overline{L}$	H	H	L	L Qn-1	Q7 NO CHG.
$\overline{L}$	H	H	H	H Qn-1	Q7 NO CHG.
$\overline{L}$	H	x	x	NO CHG. NO CHG. NO CHG.	Q5

Z = HIGH IMPEDANCE
x = DON'T CARE

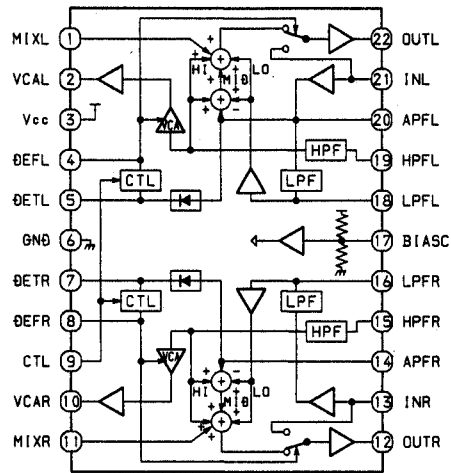
IC, M65849FP



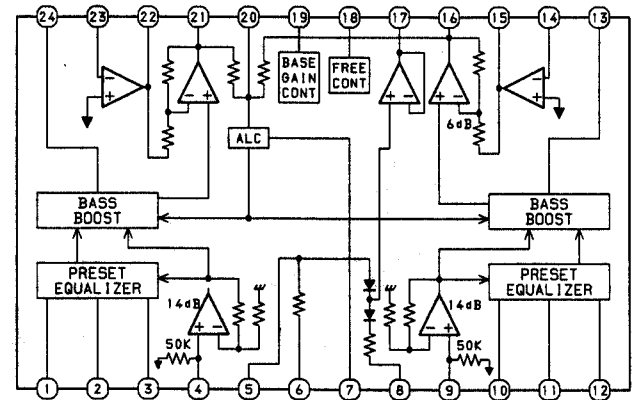
IC, LC72131



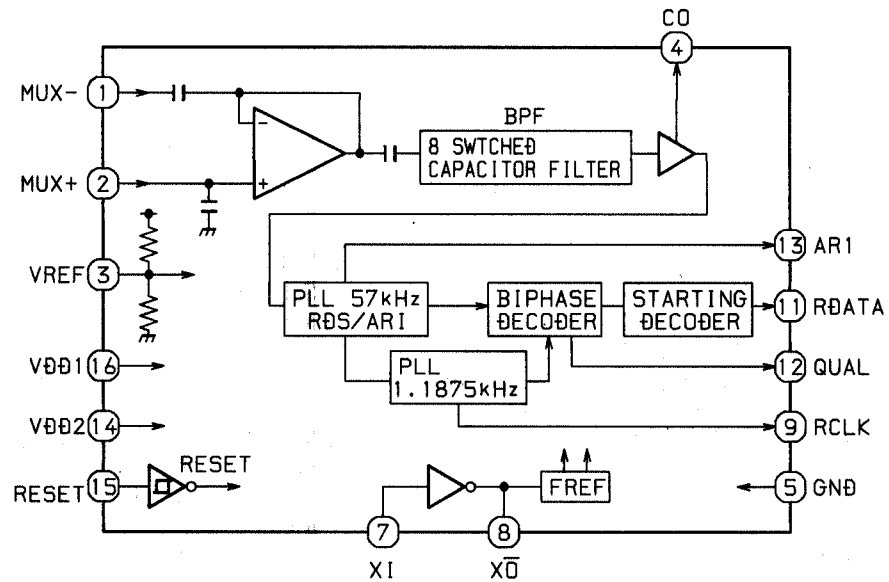
IC, BA3880S



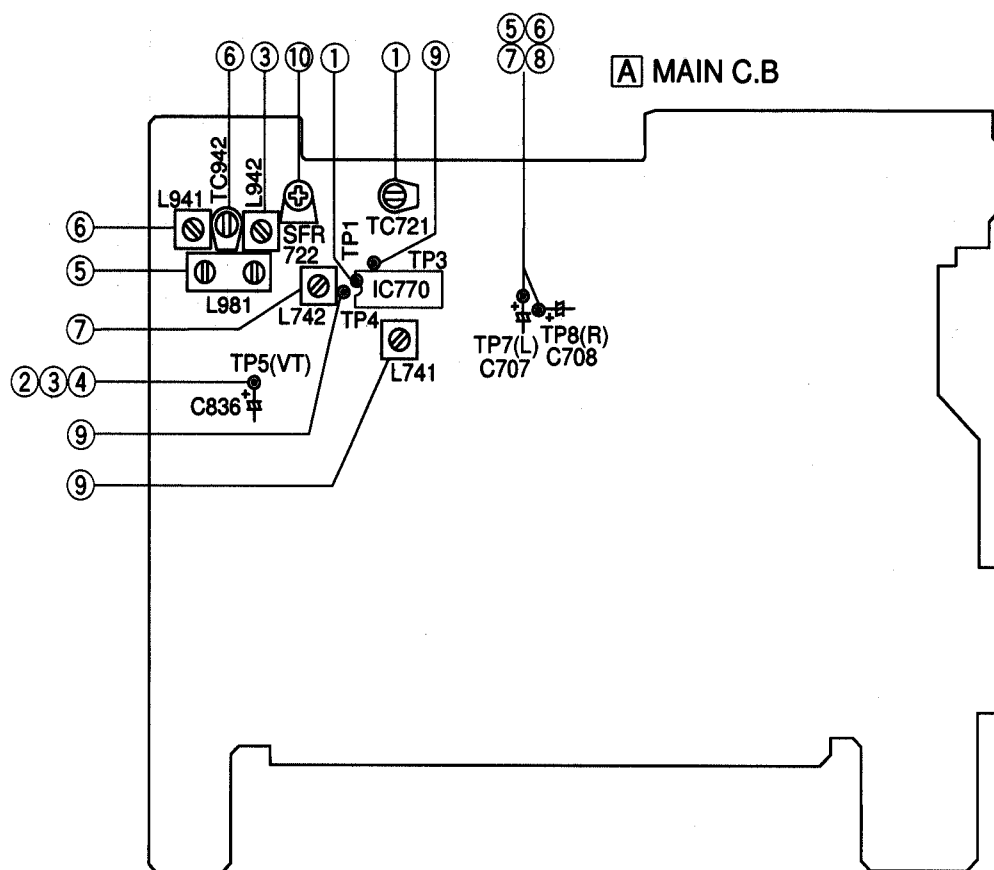
IC, BA3842F



IC, BU1921FS



ELECTRICAL ADJUSTMENT



TUNER SECTION

1. Clock Frequency Adjustment

Settings: • Test point : TP1(CLK IC770 pin 30)

• Adjustment location : TC721

Method: Set to MW(AM) 1602kHz (HE,HR,EEZ,EZ,K), 1710kHz (U) and adjust TC721 so that the test point becomes $2052\text{kHz} \pm 0.05\text{kHz}$ (HE,HR,EEZ,EZ,K), $2160\text{kHz} \pm 0.05\text{kHz}$ (U).

2. AM VT Check

Settings: • Test point : TP5(VT)

Method: Set to MW(AM) 531kHz (HE,HR,EEZ,EZ,K), 530kHz (U) and check the test point is $1.1 \pm 0.20\text{V}$ (HE,HR,U), $1.1 \pm 0.05\text{V}$ (EEZ,EZ,K).

3. LW VT Adjustment (EEZ,EZ,K)

Settings: • Test point : TP5(VT)

• Adjustment location : L942

Method: Set to LW 144kHz and adjust L942 so that the test point becomes $1.3 \pm 0.05\text{V}$.

4. FM VT Check

Setting: • Test point : TP5(VT)

Method: Set to FM 108.0MHz and check that the test point is $7.5 \pm 1.0\text{V}$. Then set to FM 87.5MHz and check that the test point is $2.9 \pm 1.0\text{V}$.

5. MW(AM) Tracking Adjustment

Settings: • Test point : TP7(Lch), TP8(Rch)

• Adjustment location : L981

Method: Set to MW(AM) 999kHz (HE,HR,EEZ,EZ,K), 1000kHz (U) and adjust L981 that the test point becomes maximum.

6. LW Tracking Adjustment (EEZ,EZ,K)

Settings: • Test point : TP7(Lch), TP8(Rch)

• Adjustment location :

L941 144kHz

TC942 290kHz

Method: Set to TC940 to center before adjustment. The level at 144kHz is adjusted to MAX by L941. Then the level at 290kHz is adjusted to MAX by TC942.

7. MW(AM) IF Adjustment

Setting: • Test point : TP7(Lch), TP8(Rch)
L742 450kHz

8. FM Tracking Check

Setting: • Test point : TP7(Lch), TP8(Rch)
Method: Set to FM 87.5MHz and 108.0MHz, and check
that the test point is $4 \pm 4\text{dB}$ (HE,HR,U), $8 \pm 4\text{dB}$ (EEZ,EZ,K) and $6 \pm 4\text{dB}$.

9. DC Balance/MONO Distortion Adjustment

Settings: • Test point : TP3,TP4 (DC Balance)
TP7(Lch), TP8(Rch) (Distortion)
• Adjustment location : L741
• Input level : 60dB

Method: Set to FM 98.0MHz and adjust L741 so that the
voltage between TP3 and TP4 becomes $0\text{V} \pm 0.01\text{V}$.

Next check that the distortion is less than 1.3%.

10. Auto Stop Level Adjustment

Settings: • Adjustment location : SFR722
• Input level : 20dB

Method: Set to FM 98.0MHz and adjust voltage low
(about 0.01V) by SFR722. After that voltage
high (about 7.0V) out by 2dB down.

PRACTICAL SERVICE FIGURE

TUNER SECTION

<FM SECTION> U,HE,HR MODELS

IHF Sensitivity : 6dB $\pm$ 6dB
(THD 3%) (87.5MHz/108.0MHz)
8dB $\pm$ 6dB(98.0MHz)
S/N 50dB Quieting Sensitivity: Less than 35dB
(87.5/98.0/108.0MHz)
Signal to noise ratio : More than 64dB(98.0MHz)
Distortion : Less than 1.2%(98.0MHz)
Stereo separation : More than 25dB(98.0MHz)
Intermediate frequency : 10.7MHz

<FM SECTION> EEZ,EZ,K MODELS

IHF Sensitivity : 6dB $\pm$ 6dB
(THD 3%) (87.5MHz/108.0MHz)
8dB $\pm$ 6dB(98.0MHz)
S/N 50dB Quieting Sensitivity: Less than 35dB
(87.5/98.0/108.0MHz)
Signal to noise ratio : More than 64dB(98.0MHz)
Distortion : Less than 1.2%(98.0MHz)
Stereo separation : More than 20dB(98.0MHz)
Intermediate frequency : 10.7MHz

<MW SECTION> HE,HR,EEZ,EZ,K MODELS

Sensitivity : 58dB $\pm$ 6dB(603kHz)
(S/N 20dB) 50dB $\pm$ 6dB(999/1404kHz)
Distortion : Less than 1.5%(999kHz)
Auto stop level : 60dB $\pm$ 10dB(999kHz)
Intermediate frequency : 450kHz

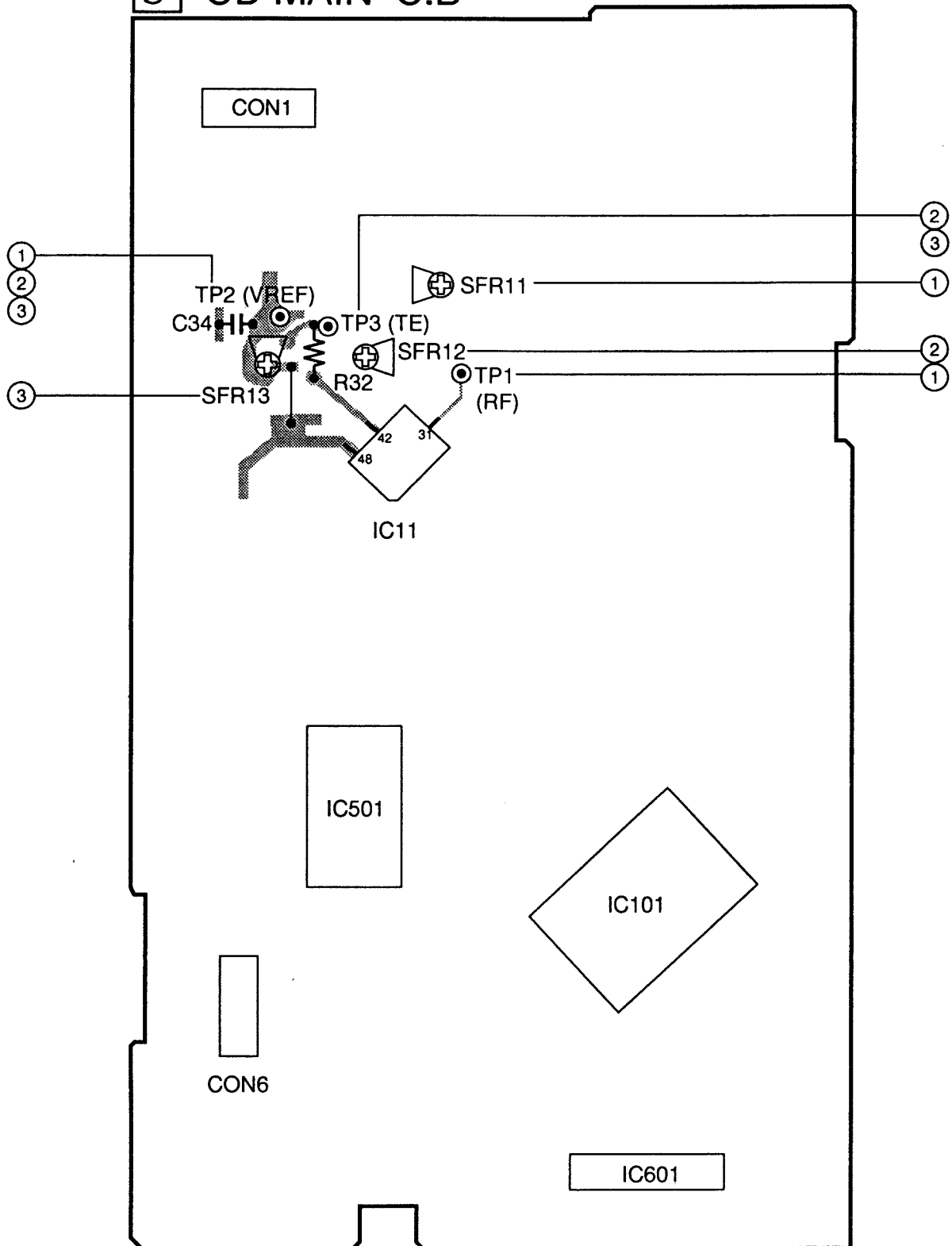
<AM SECTION> U MODEL

Sensitivity : 58dB $\pm$ 6dB(600kHz)
(S/N 20dB) 50dB $\pm$ 6dB(1000/1400kHz)
Distortion : Less than 1.5%(1000kHz)
Auto stop level : 60dB $\pm$ 10dB(1000kHz)
Intermediate frequency : 450kHz

<LW SECTION> EEZ,EZ,K MODELS ONLY

Sensitivity : 65dB $\pm$ 5dB(144kHz)
(S/N 20dB) 62dB $\pm$ 5dB(198/290kHz)
Distortion : Less than 1.5%(198kHz)
Intermediate frequency : 450kHz

J CD MAIN C.B

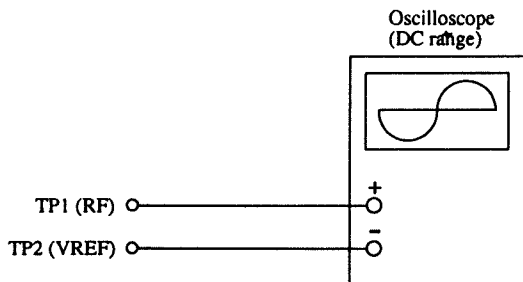


Note :

Connect a probe (10:1) of the oscilloscope or the frequency counter to a test point TP2(VREF).

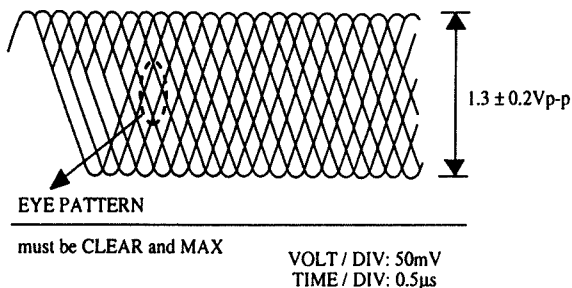
1. Focus Bias Adjustment

Make the focus bias adjustment when replacing and repairing the optical block.

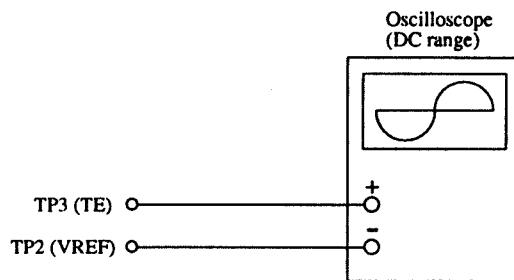


- 1) Connect an oscilloscope to the test points TP1 (RF) and TP2 (VREF).
- 2) Turn on the power switch.
- 3) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
- 4) Adjust SFR11 so that RF signal of the test point TP1 (RF) is MAX and CLEARREST.

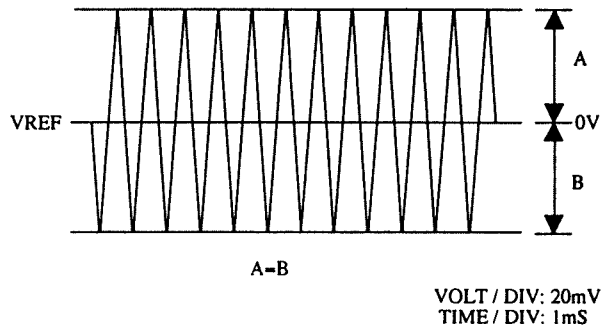
RF signal waveform



2. Tracking Balance Adjustment

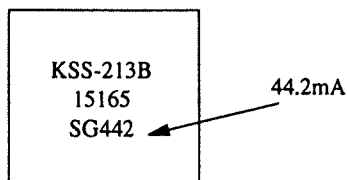


- 1) Connect an oscilloscope to the test points TP3 (TE) and TP2 (VREF).
- 2) Active the CD test mode.
- 3) Insert test disc TCD-782 (YEDS-18) and set the traverse mode (No.4) of CD test mode.
- 4) Adjust SFR12 so that the waveform on the oscilloscope is vertically symmetrical as shown in the figure below.
- 5) After the adjustment is completed, remove the connected lead wires from the terminals.



Note:

The current of the laser signal can be checked with the voltages on both sides of R28 (10Ω). The difference for the specified value shown on the level must be within ± 6.0mA.



$$\text{Laser current } I_{op} = \frac{\text{Voltage across R28}}{10\Omega}$$

3. Tracking Gain Adjustment

A servo analyzer is necessary in order to perform this adjustment exactly. However, this gain has a margin, so even if it is slightly off, there is no problem. Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when 2-axis device operates. However, as these gains are reciprocal, the adjustment is performed at the point where both gains are satisfied.

- When gain is raised, the noise increases when the 2-axis device operates increases.
- When gain is lowered, it is more susceptible to mechanical shock and skipping occurs more easily.

When the gain adjustment is not satisfied, the symptoms below appear.

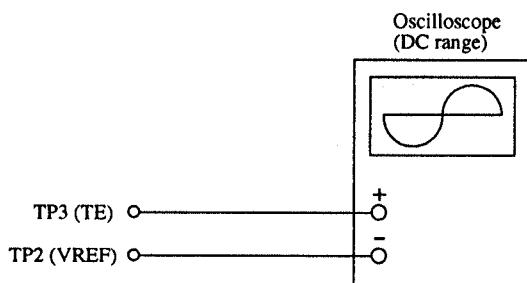
Symptoms \ Gain	(Focus)	Tracking
• The time until music starts becomes longer for STOP → ►PLAY or automatic selection (◀▶ buttons pressed.) (Normally takes about 2 seconds.)	low	low or high
• Music does not start and disc continues to rotate for STOP → ►PLAY or automatic selection (◀▶ buttons pressed.)	—	low
• Disc stops to rotate shortly after STOP → ►PLAY.	low or high	—
• Sound is interrupted during PLAY. Or time counter display stops.	—	low
• More noises during the 2-axis device operation.	high	high

The following is simple adjustment method.

– Simple adjustment –

Note: Since exact adjustment cannot be performed, remember the positions of the controls before performing the adjustment. If the positions after the simple adjustment are only a little different, return the controls to the original position.

Procedure:



1) Keep the set horizontal. (If the set is not kept horizontally,

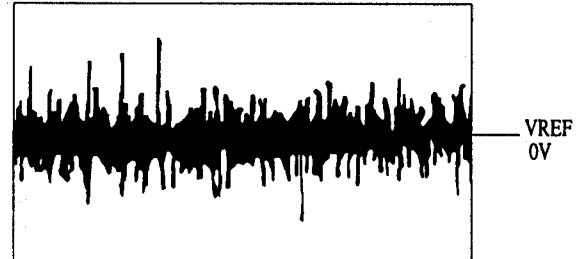
this adjustment cannot be performed due to the gravity against the 2-axis device.)

2) Insert test disc TCD-782 (YEDS-18) and play back the second composition.

3) Connect an oscilloscope to TP2 (VREF) and TP3(TE).

4) Adjust SFR13 so that the waveform appears as shown in the figure below.

(tracking gain adjustment)

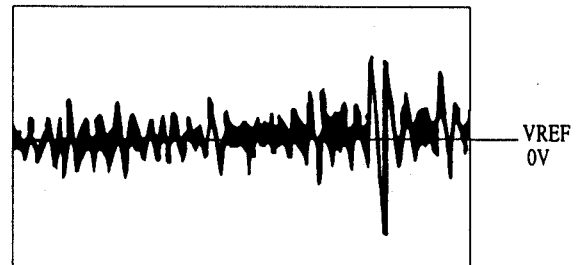


VOLT/DIV: 50 mV
TIME/DIV: 1 mS

• Incorrect example

Low tracking gain

(The fundamental wave appears as compared with the waveform adjusted)



VOLT/DIV: 50 mV
TIME/DIV: 1 mS

High tracking gain

(The frequency of the fundamental wave is higher than in low gain)

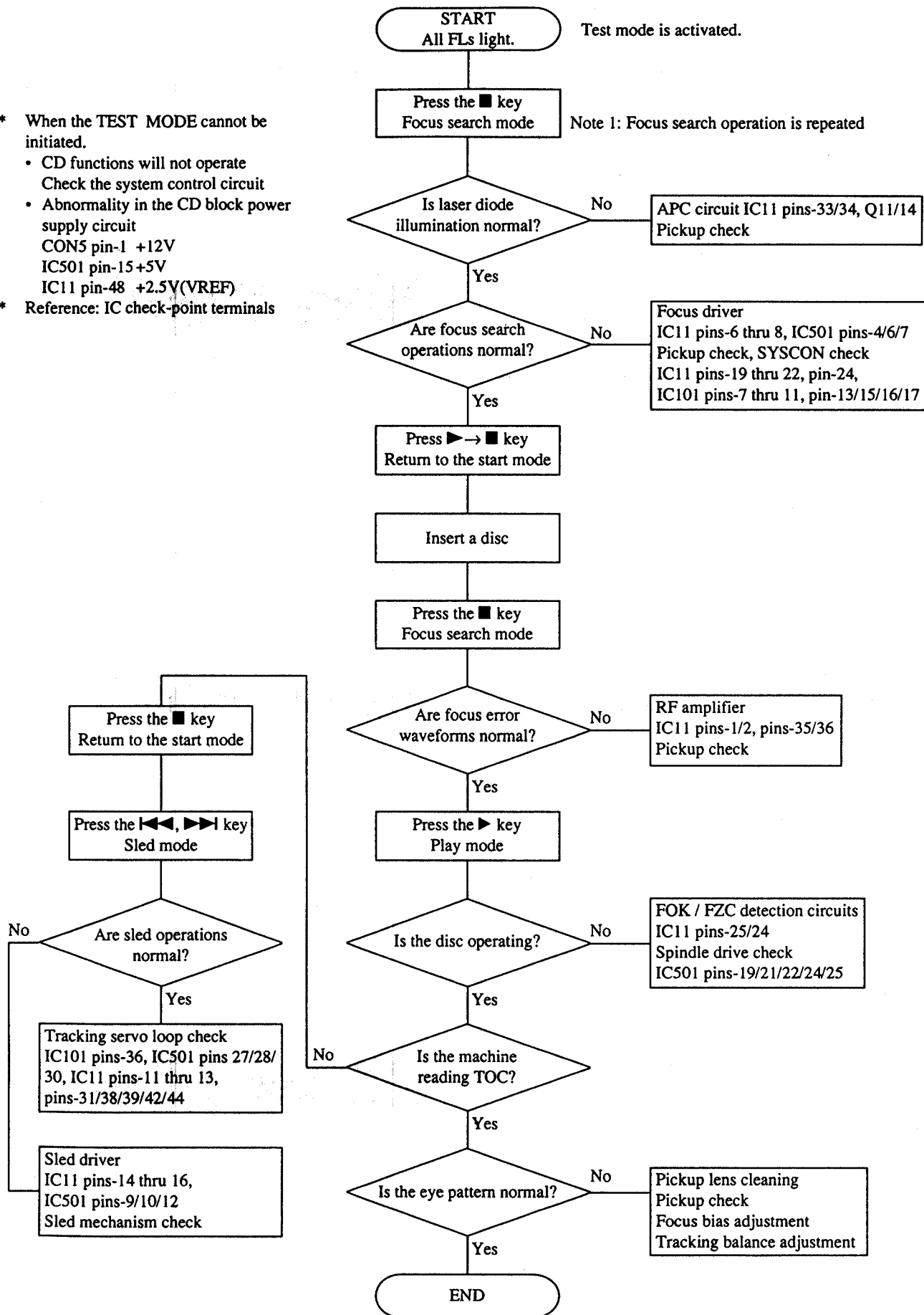


VOLT/DIV: 50 mV
TIME/DIV: 1 mS

CD TROUBLE SHOOTING

Flow Chart

- * When the TEST MODE cannot be initiated.
 - CD functions will not operate
 - Check the system control circuit
 - Abnormality in the CD block power supply circuit
 - CON5 pin-1 +12V
 - IC501 pin-15 +5V
 - IC11 pin-48 +2.5V(VREF)
- * Reference: IC check-point terminals



TEST MODE

1. How to Activate CD Test Mode

- 1) Insert the AC plug while pressing the function CD button.
All FL display tubes will light up, and the test mode will be activated.

2. How to cancel CD Test Mode

Either one of the following operations will cancel the CD test mode.

- Press the function button (except CD button).
- Press the power switch button. • Disconnect the AC plug.

3. CD Test Mode Functions

When test mode is activated, the following mode functions from No. 1 to No. 5 can be used by pressing the operation keys.

Mode / No.	Operation	FL display	Operation	Contents
Start mode No. 1	Test mode activation	All FL light up	• Active the test mode. (CD block power supply ON)	All FL displays light up
Search mode No. 2	■ key		• Laser diode illuminated under normal circumstances • Continual focus search * NOTE 1 (The pickup lens repeats the full-swing up-down motion.) * Avoid continual searches that last for more than 10 minutes.	• Laser current measurement (Across R28 resistor) FOCUS SERVO • Check focus search waveform • Check focus error waveform * FOK / FZC are not monitored in the search mode.
Play mode No. 3	◀▶ key		• Normal playback • Focus search is continued if TOC cannot be read * NOTE 1	FOCUS SERVO / TRACKING SERVO CLV SERVO / SLED SERVO Check FOK / FZC
Traverse mode No. 4	key		• During normal disc playback Press once; tracking servo OFF Press twice; tracking servo ON * NOTE 2	TRACKING SERVO ON / OFF Tracking balance (traverse) adjustment TP2 (VREF), TP3 (TE)
Sled mode No. 5	◀◀ key ▶▶ key	All FL light up	• Pickup moves to the outermost track • Pickup moves to the innermost track * NOTE 3 (During playback, machine operates normally.)	SLED SERVO Check SLED mechanism operation

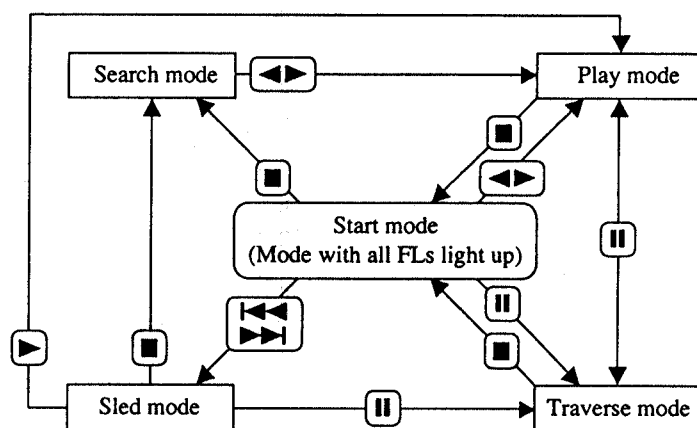
* NOTE 1: There are cases when the tracking servo cannot be locked owing to the protection circuit being operated when heat builds up in the driver IC if the focus search is operated continually for more than 10 minutes. In these cases, the power supply should be switched off for 10 minutes until heat has been reduced and then re-started.

* NOTE 2: Do not press the ◀◀ or ▶▶ keys when the machine is in the || status is active. If they are pressed, playback will not be possible after the || status has been canceled. If the ◀◀ or ▶▶ keys are pressed in the || status, press the ■ key and return to start mode (No. 1).

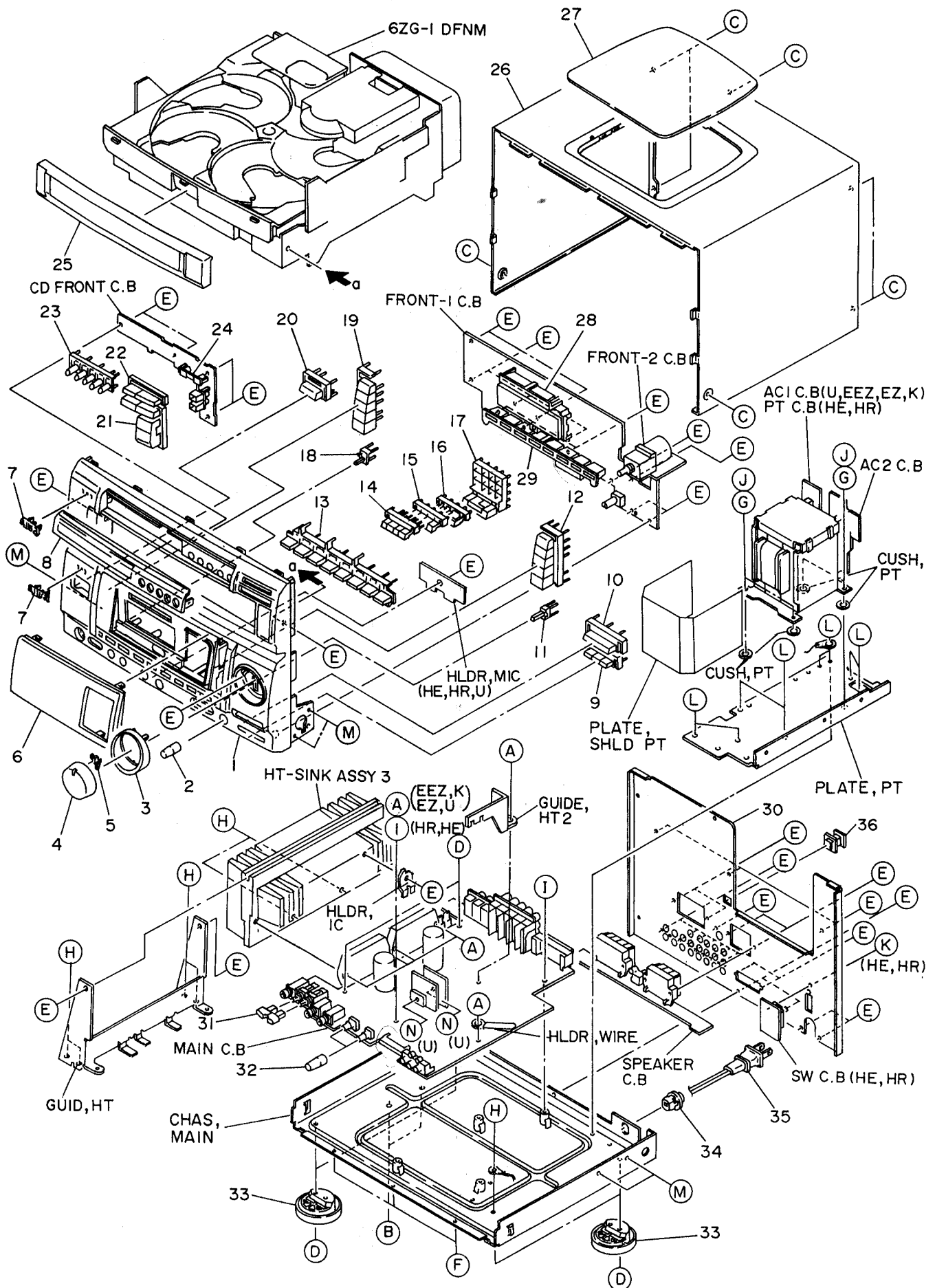
* NOTE 3: When pressing the ◀◀ or ▶▶ keys, take care to avoid damage to the gears. Because the sled motor is activated when the ◀◀ or ▶▶ keys are pressed, even when the pick-up is at the outermost or innermost track.

4. Operation Outline

- The operation of each mode is carried out in the direction of the arrows from the start mode as indicated in the following illustration.
- When DISC DIRECT key is pressed, test mode is operated same as pressing the PLAY key.
- When CD tray is opened by OPEN / CLOSE key while play and traverse modes, test mode goes back start mode.



MECHANICAL EXPLODED VIEW 1/1

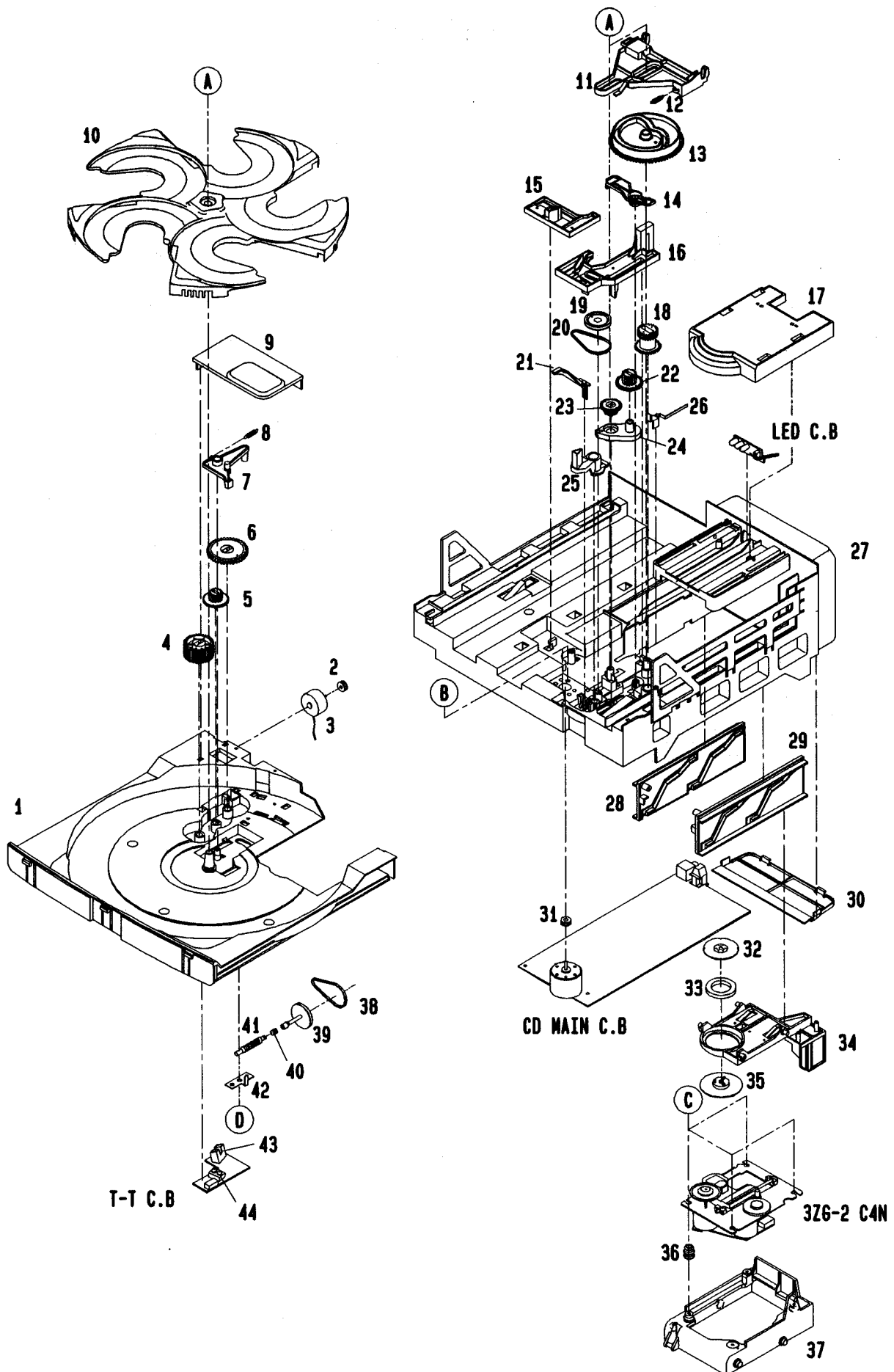


MECHANICAL PARTS LIST 1/1

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カリ NO.	DESCRIPTION	REF. NO	PART NO.	カリ NO.	DESCRIPTION
1	86-AR3-016-010		CABI, FR E<EEZ, K, EZ>	30	86-AR3-013-010		PANEL, REAR HRJBNM<HR>
1	86-AR3-015-010		CABI, FR HE<HE, HR>	30	86-AR3-012-010		PANEL, REAR KBNM<K>
1	86-AR3-001-010		CABI, FR UBNM<U>	30	86-AR3-008-010		PANEL, REAR UBNM<U>
2	86-AR5-034-010		KNOB, RTRY MIC 2	31	86-AR5-009-010		KEY, SELECT
3	86-AR5-018-010		RING, VOL	32	86-AR5-019-010		KNOB, RTRY MIC<U, HE, HR>
4	86-AR5-016-010		KNOB, RTRY VOL	33	86-AR5-023-010		FOOT, FR
5	86-AR5-017-010		REFLECTOR, VOL	34	87-085-185-010		BUSHING, AC CORD CM-22B<EXCEPT U>
6	86-AR5-031-110		WINDOW, DISP E<EEZ, K, EZ>	34	87-085-189-010		BUSHING, AC CORD(U) CM-22C<U>
6	86-AR5-032-110		WINDOW, DISP H<HE, HR>	35	87-050-079-010		AC CORD ASSY(E) BLK<EXCEPT U, K>
6	86-AR5-020-110		WINDOW, DISPLAY<U>	35	87-A80-007-010		AC CORD ASSY(K) BLK 3P<K>
7	82-NE8-032-010		BADGE, AIWA 27.5 ABS GLD	35	87-050-053-010		AC CORD ASSY, U-2<U>
8	86-AR3-007-010		WINDOW, CD	36	84-ZG1-245-110		CAP, OPTICAL
9	86-AR5-010-010		KEY, RDS<EXCEPT U>	A	87-067-581-010		BVT+3-15 W/O SLOT
10	86-AR5-011-010		KEY, BBE	B	87-067-585-010		BVT+4-6
11	86-AR5-008-010		KEY, MUTE	C	87-067-641-010		UTT+3-8 W/O SLOT BLK
12	86-AR5-005-010		KEY, GEQ	D	87-067-688-010		BVT+3-6
13	86-AR5-006-010		KEY, FUN	E	87-067-703-010		BVT+3-10 W/O SLOT
14	86-AR5-012-010		KEY, 10 A	F	87-067-716-010		BVT+3-6 BLK
15	86-AR5-013-010		KEY, 10 B	G	87-067-747-010		W, 4.3-14-1 W/O ADH
16	86-AR5-014-010		KEY, 10 C	H	87-067-584-010		BVT+3-6 W/O SLOT
17	86-AR5-015-010		KEY, UP/DOWN	I	87-067-632-010		BVT+3-15 W/O SLOT W/CONVEX
18	86-AR5-007-010		KEY, MODE	J	87-067-975-010		S-SCREW, IT+4-8 SWCH12A
19	86-AR5-004-010		KEY, DSP	K	81-653-215-010		SPECIAL SCREW VT2<HE, HR>
20	86-AR5-003-010		KEY, POWER	L	87-067-586-010		BVT+4-8
21	86-AR3-003-010		KEY, PLAY	M	87-591-095-410		QIT+3-8
22	86-AR3-005-010		KEY, OPEN	N	87-067-579-010		BVT+3-8<U>
23	86-AR3-004-010		KEY, DISC				
24	86-AR3-201-010		GUIDE, PLAY				
25	86-AR3-006-010		PANEL, TRAY				
26	86-AR3-002-010		CABI, STEEL				
27	86-MA3-042-010		WINDOW, TOP				
28	86-AR5-202-010		GUIDE, RDS<EEZ, K, EZ>				
29	86-AR5-201-110		GUIDE, LED				
30	86-AR3-010-010		PANEL, REAR EZBNM<EEZ, EZ>				
30	86-AR3-009-010		PANEL, REAR HEJBNM<HE>				

CD MECHANISM EXPLODED VIEW 1/2

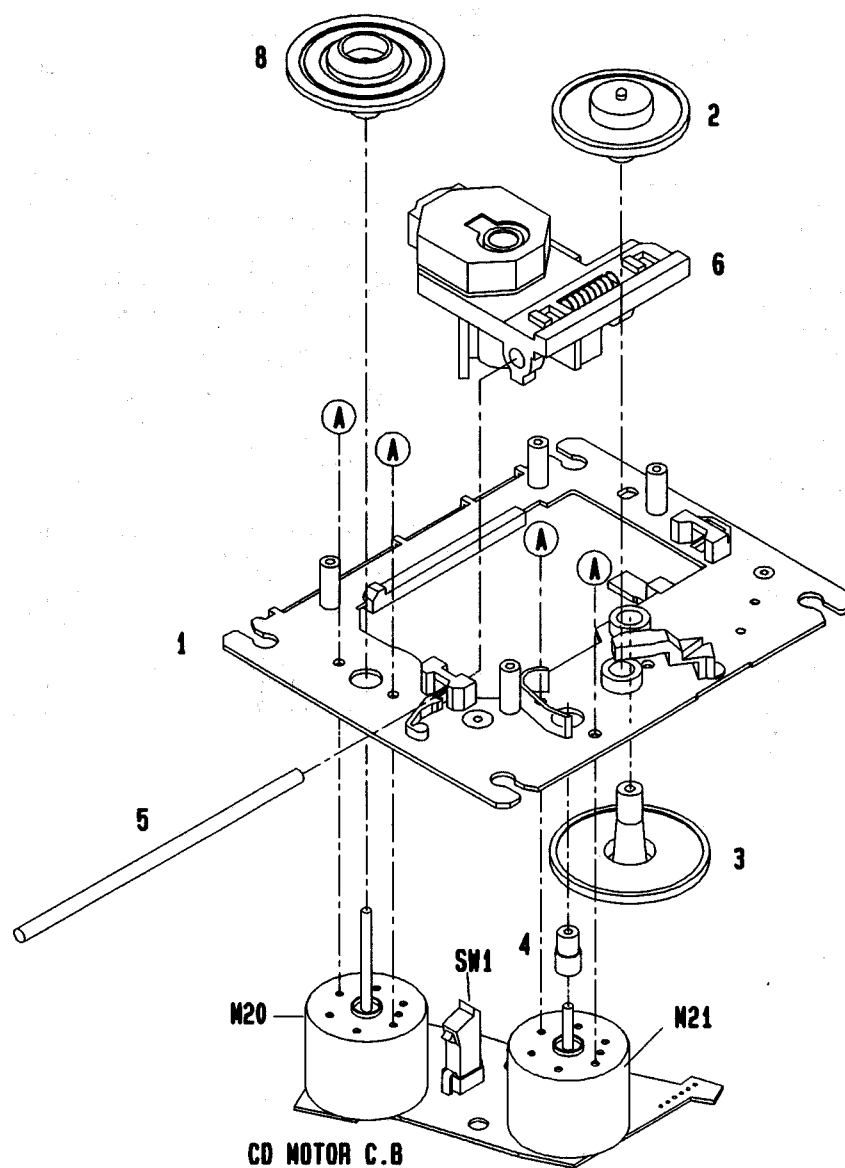


CD MECHANISM PARTS LIST 1/2

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	86-ZG1-001-119		TRAY, 5CD	26	86-ZG1-220-110		SPR-P, LOCK
2	81-ZG1-212-01K		PULLY, LOAD MO	27	86-ZG1-201-119		CHAS, MECHA
3	87-A90-036-019		MOT ASSY, RF-300CA-11	28	86-ZG1-209-019		SLIDER, CAM L
4	86-ZG1-228-019		GEAR, TT-B	29	86-ZG1-210-019		SLIDER, CAM R
5	86-ZG1-227-019		GEAR, TT-A	30	86-ZG1-005-019		COVER, CHAS
6	86-ZG1-223-019		WORM-WHEEL, TT	31	84-ZG2-228-019		PULLEY, MOT
7	86-ZG1-224-019		LEVER, TT	32	83-ZG3-211-01K		PLATE, DISC
8	86-ZG1-226-010		SPR-E, LEVER TT	33	83-ZG3-602-010		RING, MAG
9	86-ZG1-003-119		COVER, TRAY	34	86-ZG1-215-019		HLD, CHUCK
10	86-ZG1-002-119		TURN TABLE, 5CD	35	83-ZG3-212-019		CAP, DISC
11	86-ZG1-211-119		JOINT, CAM	36	80-CD3-214-019		CUSH CD A
12	86-ZG1-216-010		SPR-E, JT	37	86-ZG1-202-119		HLD, MECHA
13	86-ZG1-203-019		GEAR, MAIN CAM	38	86-ZG1-225-019		BELT, SQ1.2-32.9
14	86-ZG1-213-019		LEVER, LOAD	39	86-ZG1-221-01K		PULLEY, TT
15	86-ZG1-214-019		LEVER, PROTECT	40	86-ZG1-231-010		SPR-C, WORM
16	86-ZG1-212-119		SLIDER, LOAD	41	84-ZG1-238-01K		GEAR, WORM N
17	86-ZG1-004-019		REFLECTOR, CD	42	86-ZG1-232-010		SPR-P, WORM
18	86-ZG1-205-019		GEAR, TRAY	43	86-ZG1-229-019		HLD, SENSOR
19	84-ZG1-219-019		PULLY, RELAY BGE	44	86-ZG1-230-019		HLD, DISC SENSOR
20	84-ZG1-209-010		BELT, SQ1.8-117.7	A	87-078-148-019		VFT 2+3-12(F10)BLK
21	86-ZG1-217-019		LEVER, SW	B	87-251-072-419		U+2.6-5
22	86-ZG1-206-019		GEAR, RELAY B	C	81-ZG1-254-019		S-SCREW, MECH HLD
23	86-ZG1-204-019		GEAR, RELAY A	D	87-067-579-019		BVT2+3-8 W/O SLOT
24	86-ZG1-218-019		PLATE, GEAR				
25	86-ZG1-208-019		LEVER, TRAY				

CD MECHANISM EXPLODED VIEW 2/2



CD MECHANISM PARTS LIST 2/2

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	83-ZG2-232-11K		O-SERT S ASSY, S5	6	87-070-445-010		PICK-UP, KSS-213B
2	83-ZG2-204-419		GEAR, A	8	83-ZG2-227-01K		TURN TABLE, C1
3	83-ZG2-205-219		GEAR, B	A	87-261-032-219		SCREW V+2-3
4	83-ZG2-220-01K		GEAR MOTOR 2				
5	83-ZG2-207-119		SHAFT, SLIDE				

■ ACCESSORIES PACKAGE LIST

DESCRIPTIONで判断できない物は“REFERENCE NAME LIST”を参照してください。
If can't understand for Description please kindly refer to “REFERENCE NAME LIST”.

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	87-043-106-010		ANT, FM 1007AWG<EEZ, K, EZ>
1	87-043-115-010		FEEDER-ANT, FM<U, HE, HR>
2	87-006-225-010		ANT, LOOP ANT NC2
3	86-AR3-903-010		IB, EEZ (EGSFI) <EEZ, EZ>
3	86-AR3-902-010		IB, HE/HR (EC) <HE, HR>
3	86-AR3-904-010		IB, K (E) <K>
3	86-AR3-901-010		IB, U (E-S-F) <U>
4	86-AR3-623-010		RC UNIT, RC-6AR05<EEZ, K, EZ>
4	86-AR3-620-010		RC UNIT, RC-6AR3<U, HE, HR>
5	86-AR4-681-010		RC UNIT, HT-M301<EXCEPT U>
5	86-AR4-685-110		RC UNIT, HT-M301 U<U>
6	87-099-789-010		PLUG, CONVERSION IR44<HE, HR>

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER
サージサプレッサ	SERGESUPPRESSOR
セラコン	CAP,CERA

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL
ジグアーム	ARM,SHAFT
ジグガイド	GUIDE,SHAFT
ストラップ	STRAP
トクナベ	S-SCREW
ヒンジ	HINGE
ヒンジビス	S-SCREW
ビスセレート	SCREW,SERRART

サービス技術ニュース	
番号	連絡内容
G — —	
G — —	
G — —	

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