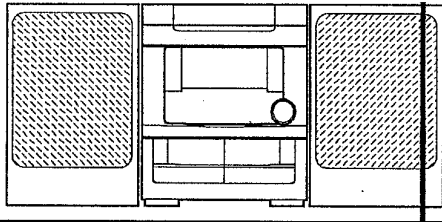


aiwa



NSX-F7 NSX-F77



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3MK2 PR4NM
- BASIC CD MECHANISM : 6ZG-1 DFNM <U>, 6ZG-1 YDFNM <EZ,K>
- TYPE : EZ,K<7>, U<77>

SYSTEM	CD - CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-F7 (TYPE:EZ,K)	CX-NF7	SX-FNF7	RC UNIT, 6AS01
NSX-F77 (TYPE:U)	CX-NF77	SX-NAVF77 SX-R240	RC UNIT, 6AS01

- If requiring information about the Speaker, see Service Manual of SX-FNF7, SX-NAVF77, SX-R240.
S/M Code No. 09-964-137-8FP.

SERVICES MANUAL

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SPECIFICATIONS

<FM Tuner section>

Tuning range 87.5 MHz to 108 MHz
Usable sensitivity (IHF) 13.2 dBf<U,K>
 16.8 dBf<EZ>
Antenna terminals 75 ohms (unbalanced)

<AM (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> (EZ,K)

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

<Amplifier section>

Power output * EZ,K:
 Rated 100 W +100 W (6 ohms,
 T.H.D. 1 %, 1 kHz/DIN45500)
 Reference : 125 W + 125 W
 (6 ohms, T.H.D. 10 %, 1 kHz
 DIN 45324)
 DIN MUSIC POWER
 188 W + 188 W

* without connecting to the SURROUND SPEAKERS

Total harmonic distortion U:
 120 W + 120 W
 (50 Hz-20 kHz, THD less than 1%,
 6 ohms)

Inputs VIDEO/AUX:230mV (adjustable)
 MIC 1, MIC 2 : 1.7mV (10 kohms)

Outputs SUPER WOOFER : 1.7 V<EZ,K>
 2.5 V<U>

SPEAKERS: accept speakers of
 6 ohms or more
 SURROUND SPEAKERS :
 accept speakers of 16 ohms or
 more
 PHONES (stereo jack) : accepts
 headphones of 32 ohms or more

<Cassette deck section>

Track format 4 tracks, 2 channels stereo
Frequency response CrO₂ tape : 50 Hz – 16000 Hz
 Normal tape : 50 Hz – 15000 Hz
Signal-to-noise ratio 60 dB (Dolby B NR ON, CrO₂ tape
 peak level)

Recording system AC bias
Heads Deck 1 : Playback head x1
 Deck 2 : Recording/playback/
 erase head x 1

<Compact disc player section>

Laser Semiconductor laser (λ =780 nm)
D-A converter 1 bit dual
Signal-to-noise ratio 85 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<U>
 230 V AC,50Hz<EZ,K>
Power consumption 210 W<U>
 680 W<EZ,K>
Dimensions of main unit
 (W x H x D) 300 x 357.5 x 381.5 mm
 (11⁷/₁₆ x 14¹/₁₆ x 15¹/₁₆ in.)<U>
 300 x 357.5 x 381.5 mm<EZ,K>
Weight of main unit 10.8 kg (23 lbs 13 oz)<U>
 10.5 kg<EZ,K>

<Speaker system SX-FNF7(EZ)/ NAVF77(U)>


Cabinet type 3 way, bass reflex <U>
 3 way,bass reflex with surround
 speaker<EZ,K>
 (magnetic shielded type)

Speakers Woofer :
 160 mm cone type<EZ,K>
 160 mm (6³/₁₆ in.) cone type<U>
 Tweeter :
 80 mm cone type <EZ,K>
 80 mm (3¹/₄ in.) cone type<U>
 Super tweeter :
 20 mm ceramic type <EZ,K>
 20 mm (1³/₁₆ in.)ceramic type<U>
 Surround speaker:
 80 mm cone type<EZ,K>

Impedance 6 ohms<U>
 Front speaker: 6 ohms <EZ,K>
 Surround speaker: 16 ohms
 <EZ,K>

Output sound pressure level 87 dB/W/m
Dimensions (W x H x D) 260 x 353 x 280 mm<EZ,K>
 260 x 353 x 265 mm
 (10¹/₄ x 14 x 10¹/₂ in.)<U>

Weight 4.7 kg<EZ,K>
 4.5 kg(9 lbs 13 oz)<U>

- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  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.

CD DIASSEMBLY 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.

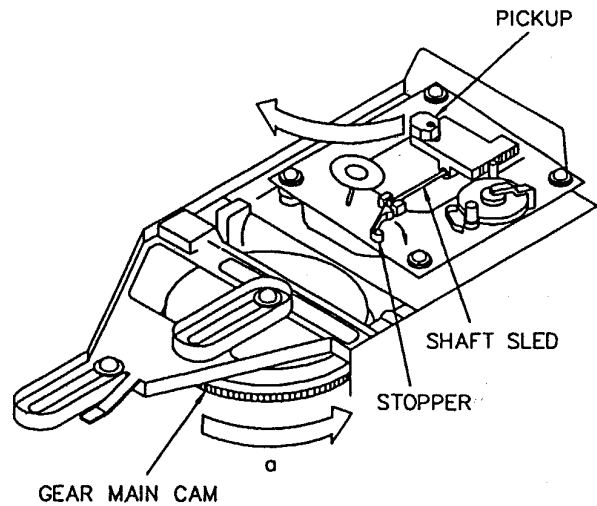


Figure 1

2. 5巻フェンジャーロックの外し方 (figure 2)

- 1) CD基板のFFC 2本を外し、ビス5本を外す。
- 2) 5巻フェンジャーロックを後から持ち上げて外す。
(PANEL TRAYを外さなくても、5フェンジャー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.)

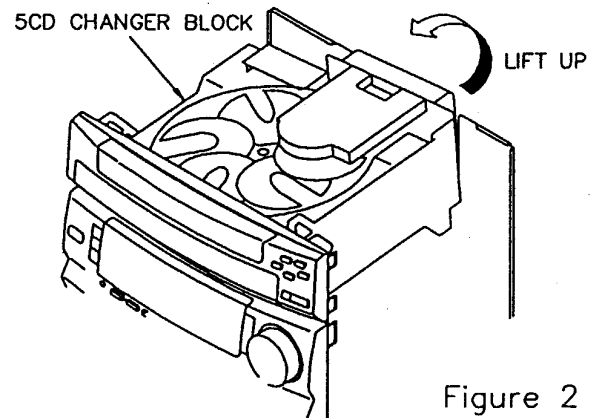
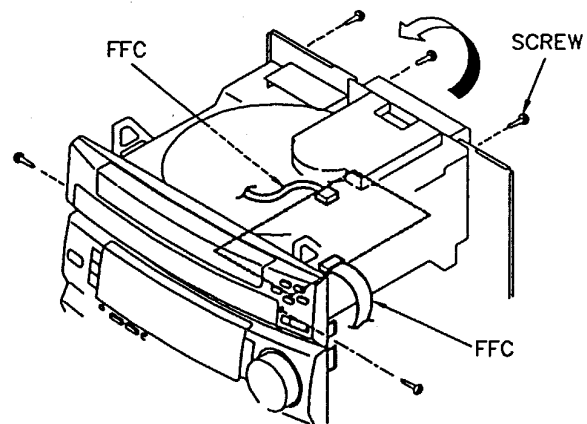


Figure 2

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)

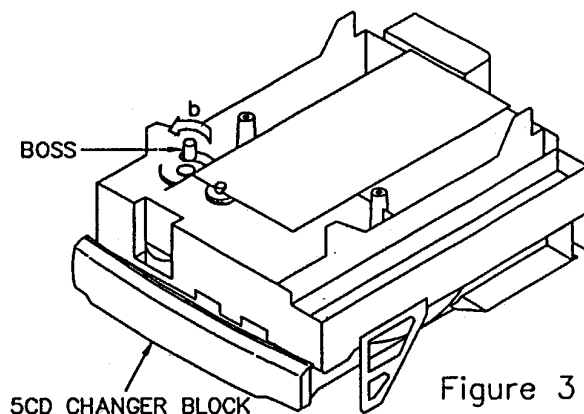


Figure 3

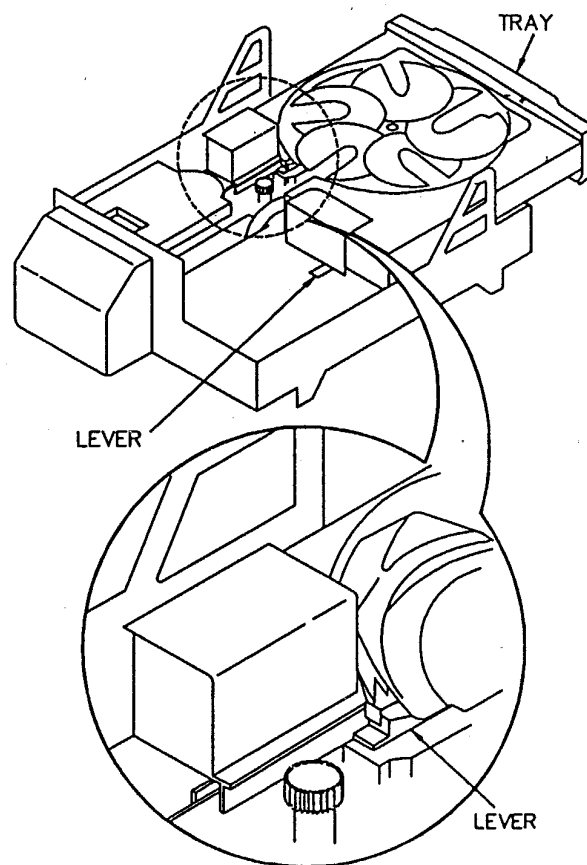
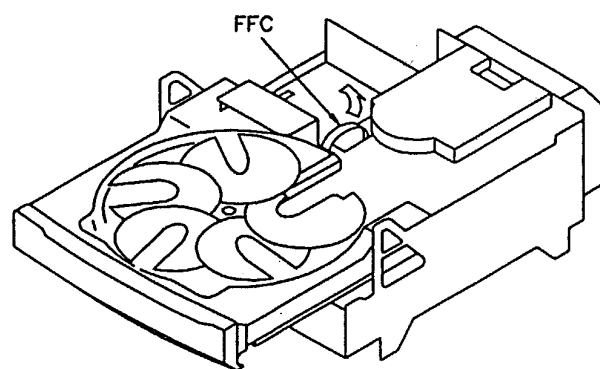


Figure 4

(2) 組立て方法

- 1) LEVER TRAY が figure 5 の位置で、CD 効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)

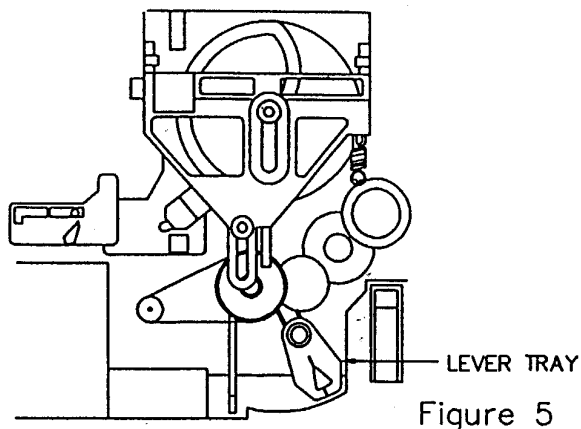


Figure 5

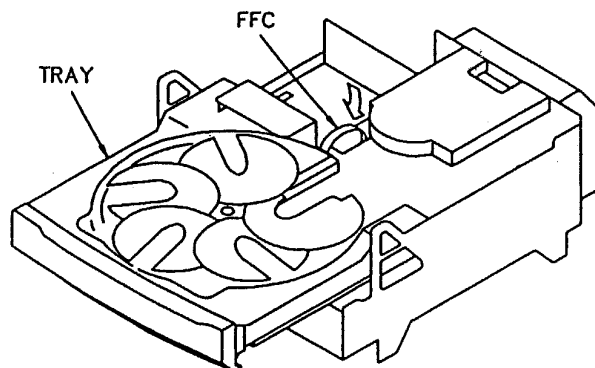


Figure 6

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).

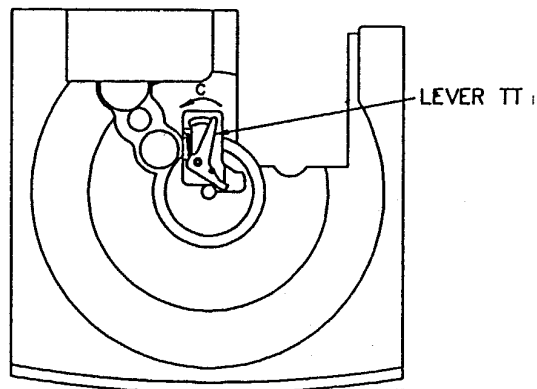
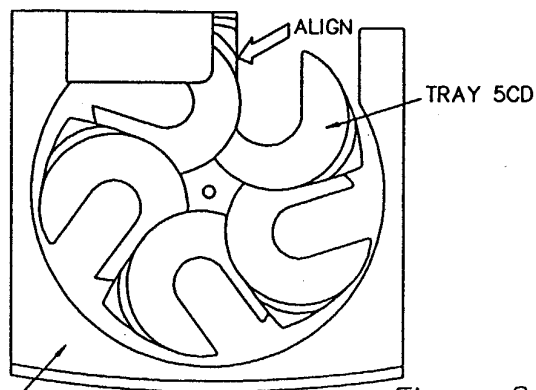


Figure 7



TURN TABLE 5CD

Figure 8

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 ylittävälle 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

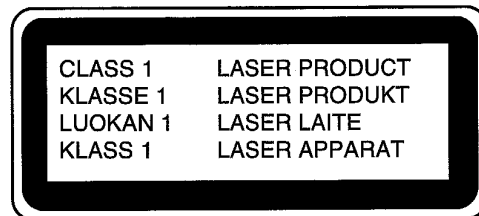
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.

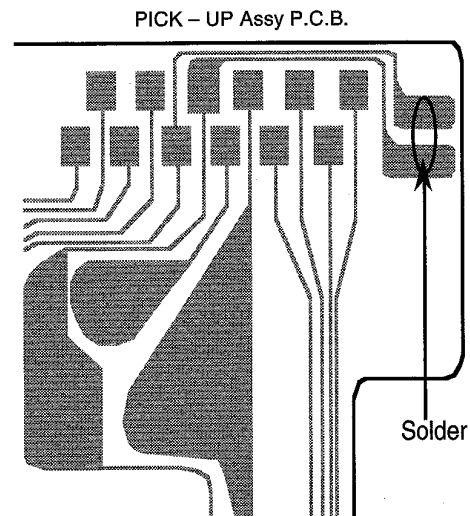


Precaution to replace Optical block

(KSS-213B)

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

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



ELECTRICAL MAIN PARTS LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				DIODE			
	87-020-454-010		IC, DN6851		87-020-465-089		DIODE, 1SS133
	87-070-083-019		IC, GPIU281X		87-A40-211-089		ZENER, UZ36BSA
	87-A20-191-019		IC, STK-419-140		87-A40-197-089		ZENER, UZL6L1
	87-070-121-010		IC, HA12185NT<U>		87-A40-200-089		ZENER, UZL11L3
	87-A20-455-010		IC, HA12211<EZ, K>		87-A40-198-089		ZENER, UZL6M1
	87-070-232-019		IC, BA3834S		87-A40-199-089		ZENER, UZL6H2
	87-017-915-089		IC, BU4094BCF		87-A40-202-089		ZENER, UZ5.1BSB
	87-001-874-019		IC, HA12134A		87-A40-115-069		DIODE, RS603M
	87-A20-107-019		IC, BA3836		87-070-274-089		DIODE, 1N4003 SEM
	87-017-804-019		IC, BU4052BC		87-020-027-089		C-DIODE, 1SS184
	87-A20-056-019		IC, BA3880S		87-020-125-089		C-DIODE, 1SS181
	87-017-914-019		IC, BU4094 BC		87-017-437-089		DIODE, 1N4148M
	87-017-888-089		IC, NJM4558MD		87-017-174-089		ZENER, HZS11A3L
	87-A20-067-040		IC, M65849FP		87-017-147-089		ZENER, HZS33-2
	87-A20-069-049		C-IC, BA3842F		87-017-978-089		DIODE, 1N4003
	87-070-127-119		IC, LC72131		87-A40-179-089		DIODE, RK34
	87-017-714-119		IC, LA1836		87-A40-184-090		DIODE, RK34
	86-NFA-608-010		C-IC, LC866540-5C34<U>		87-A40-261-080		ZENER, HZS36-3
	87-017-421-080		C-IC, TC9212F		87-001-731-089		ZENER, HZS6C2L
	87-001-982-019		IC, TA7291S		87-017-091-089		ZENER, HZS5C1
	87-070-305-019		IC, BA6897S		87-020-331-089		C-DIODE, DAN202K
	86-NFA-617-080		IC, 866548-5D57<EZ, K>		87-017-123-089		ZENER, HZS11A3L
	87-017-745-019		IC, CXA1782BQ		87-020-330-089		C-DIODE, DAP202K
	87-070-294-019		IC, CXD2508AQ		87-001-290-089		ZENER, HZS6B1L
	87-A20-105-040		C-IC, BU1912FS<EZ, K>		87-017-148-089		ZENER, HZS6A1L
	87-001-792-080		C-IC, NJM2100 M<EZ, K>		87-017-149-080		ZENER, HZS6A2L
TRANSISTOR				MAIN C.B			
	87-026-463-089		TR, 2SA933S(RS)	C101	87-016-657-099		CAP, E 3300-71 SMG
	89-213-702-019		TR, 2SB1370E	C102	87-016-657-099		CAP, E 3300-71 SMG
	89-113-187-089		TR, 2SA1318TU	C104	87-010-235-089		CAP, E 470-16 SME
	87-026-610-089		TR, KTC3198GR	C105	87-010-235-089		CAP, E 470-16 SME
	89-332-665-089		TR, 2SC3266GR	C106	87-010-409-089		CAP, E 220-50 SME
	89-337-221-389		C-TR, 2SC3722K		87-010-409-089		CAP, E 220-50 SME
	89-327-125-088		C-TR, 2SC2712GR	C107	87-010-409-089		CAP, E 220-50 SME
	89-111-625-089		C-TR, 2SA1162GR	C108	87-010-263-089		CAP, E 100-10 SME 5X11
	87-026-210-089		C-TR, DTC144EK T147	C109	87-010-382-089		CAP, E 22-25 SME
	87-026-211-089		C-TR, DTA144EK T147	C112	87-010-403-089		CAP, E 3.3-50 SME
	89-333-266-089		C-TR, 2SC3326B		87-012-140-089		C-CAP, S 470P-50 CH
	87-026-609-089		TR, KTA1266GR	C116	87-012-368-089		C-CAP, S 0.1-50 F
	89-109-705-089		TR, 2SA970GR	C121	87-012-368-089		C-CAP, S 0.1-50 F
	87-026-226-089		C-TR, DTA143EK	C122	87-018-209-089		CAP, TC-U 0.1-50 F
	89-502-466-089		TR, FET 2SK246-BL (TPE2)	C123	87-012-368-089		C-CAP, S 0.1-50 F
	87-026-228-089		C-TR, DTA124EK		87-010-263-089		CAP, E 100-10 SME<U>
	89-112-965-089		TR, 2SA1296GR	C125	87-010-186-089		C-CAP, S 4700P-50 B
	89-333-317-089		TR, 2SC3331T	C145	87-010-186-089		C-CAP, S 4700P-50 B
	89-109-521-089		TR, 2SA952K	C146	87-010-260-089		CAP, E 47-25 SME
	89-406-555-089		TR, 2SD655E	C152	87-016-565-099		CAP, E 4700-25 (JAM1)
	87-026-238-089		C-TR, DTC144WK		87-016-565-099		CAP, E 4700-25 (JAM1)
	87-026-214-089		TR, DTA114YS	C172	87-010-196-089		C-CAP, S 0.1-25 F
	89-327-143-089		C-TR, 2SC2714 (O)	C173	87-010-196-089		C-CAP, S 0.1-25 F
	87-026-269-089		TR, DTA114ES	C174	87-010-196-089		C-CAP, S 0.1-25 F
	89-421-141-289		C-TR, 2SD2114K, UV<EZ, K>	C175	87-015-785-089		C-CAP, 0.1-25 F
	89-505-434-589		C-FET, 2SK543(4/5)		87-010-194-089		C-CAP, S 0.047-25 F
	87-026-234-080		C-TR, DTC143EK	C220	87-010-490-089		CAP, E 0.1-50 SME
	89-502-094-080		C-FET, 2SK209Y	C221	87-010-490-089		CAP, E 0.1-50 SME
	87-026-608-089		C-TR, DTC123JK	C222	87-010-187-089		C-CAP, S 5600P-50 B
	87-026-233-089		C-TR, DTA114TK	C223	87-010-187-089		C-CAP, S 5600P-50 B
	87-026-636-080		C-TR, UN2214<EZ, K>	C224	87-012-179-089		C-CAP, S 1200P-50 B
	87-026-223-089		C-TR, DTC143TK	C225	87-012-179-089		C-CAP, S 1200P-50 B
	87-026-239-089		C-TR, DTC114TK	C226	87-010-405-089		CAP, E 10-50 SME
	89-110-155-089		TR, 2SA1015GR	C227	87-010-405-089		CAP, E 10-50 SME
	89-320-011-089		TR, 2SC2001K	C228	87-010-402-089		CAP, E 2.2-50 SME
	89-327-126-089		C-TR, 2SC2712BL<EZ, K>	C229	87-010-402-089		CAP, E 2.2-50 SME
	89-421-722-389		TR, 2SD2172 V/W	C230	87-010-147-089		C-CAP, S 3P-50 CH
	89-420-053-010		TR, 2SD2005 R<U>	C231	87-018-098-089		CAP, TC-U 3.3P-50 SL
				C232			

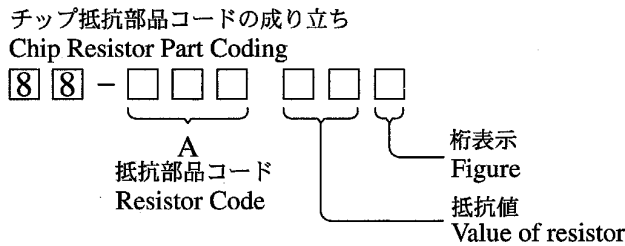
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C233	87-010-196-089		C-CAP,S 0.1-25 F	C525	87-010-184-089		C-CAP,S 3300P-50 B
C234	87-010-196-089		C-CAP,S 0.1-25 F	C526	87-010-196-089		C-CAP,S 0.1-25 F
C235	87-010-196-089		C-CAP,S 0.1-25 F	C527	87-010-401-089		CAP,E 1-50 SME
C236	87-010-196-089		C-CAP,S 0.1-25 F	C528	87-010-401-089		CAP,E 1-50 SME
C239	87-018-134-089		CAP,TC-U 0.01-16 Y <EZ,K>	C529	87-010-384-089		CAP,E 100-25 SME
C240	87-018-134-089		CAP,TC-U 0.01-16 Y <EZ,K>	C530	87-010-197-089		C-CAP,S 0.01-25 B
C241	87-010-197-089		C-CAP,S 0.01-25 B<EZ,K>	C531	87-010-183-089		C-CAP,S 2700P-50 B
C242	87-010-197-089		C-CAP,S 0.01-25 B<EZ,K>	C532	87-010-194-089		C-CAP,S 0.047-25 F
C243	87-010-322-080		C-CAP,S 100P-50 J CH	C533	87-010-196-089		C-CAP,S 0.1-25 F
C244	87-010-322-080		C-CAP,S 100P-50 J CH	C534	87-010-263-089		CAP,E 100-10 SME 5X11
C245	87-010-318-089		C-CAP,S 47P-50 CH<EZ,K>	C535	87-010-401-089		CAP,E 1-50 SME
C246	87-010-293-080		C-CAP,47P-50 J CH<EZ,K>	C536	87-010-401-089		CAP,E 1-50 SME
C249	87-018-209-089		CAP,TC-U 0.1-50 F	C537	87-010-545-089		CAP,E 0.22-50 SME
C250	87-A10-200-010		CAP,E 10-100 PP	C540	87-010-196-089		C-CAP,S 0.1-25 F
C255	87-010-178-089		C-CAP,S 1000P-50 B <EZ,K>	C541	87-010-196-089		C-CAP,S 0.1-25 F
C260	87-015-785-089		C-CAP,0.1-25 F	C542	87-010-405-089		CAP,E 10-50 SME
C301	87-010-318-089		C-CAP,S 47P-50 CH	C543	87-010-546-089		CAP,E 0.33-50 SME
C302	87-010-318-089		C-CAP,S 47P-50 CH	C544	87-010-546-089		CAP,E 0.33-50 SME
C303	87-012-157-089		C-CAP,S 330P-50 CH	C545	87-010-400-089		CAP,E 0.47-50 SME
C304	87-012-157-089		C-CAP,S 330P-50 CH	C546	87-010-400-089		CAP,E 0.47-50 SME
C305	87-012-145-089		C-CAP,S 270P-50 CH	C547	87-015-632-089		C-CAP,0.015-50 BK<EZ,K>
C306	87-012-145-089		C-CAP,S 270P-50 CH	C547	87-015-822-089		C-CAP,0.022<U>
C307	87-010-196-089		C-CAP,S 0.1-25 F	C548	87-015-632-089		C-CAP,0.015-50 BK<EZ,K>
C311	87-010-198-089		C-CAP,S 0.022-25 B	C548	87-015-822-089		C-CAP,0.022 Z F<U>
C312	87-010-198-089		C-CAP,S 0.022-25 B	C553	87-015-627-089		C-CAP,1000P-25 ZF
C313	87-010-182-089		C-CAP,S 2200P-50 B	C554	87-015-627-089		C-CAP,1000P-50 B
C314	87-010-182-089		C-CAP,S 2200P-50 B	C557	87-010-178-089		C-CAP,S 1000P-50 B
C315	87-010-180-089		C-CAP,S 1500P-50 B	C558	87-010-178-089		C-CAP,S 1000P-50 B
C316	87-010-180-089		C-CAP,S 1500P-50 B	C601	87-010-178-089		C-CAP,S 1000P-50 B
C317	87-012-142-089		C-CAP,S 0.33-16 F	C602	87-010-178-089		C-CAP,S 1000P-50 B
C318	87-012-142-089		C-CAP,S 0.33-16 F	C603	87-010-405-089		CAP,E 10-50 SME
C319	87-012-141-089		C-CAP,S 0.22-16 F	C604	87-010-405-089		CAP,E 10-50 SME
C320	87-012-141-089		C-CAP,S 0.22-16 F	C605	87-010-260-089		CAP,E 47-25 SME
C321	87-010-196-089		C-CAP,S 0.1-25 F	C606	87-010-101-089		CAP,E 220-16 SME
C322	87-010-196-089		C-CAP,S 0.1-25 F	C607	87-010-188-089		C-CAP,S 6800P-50 B
C324	87-010-260-089		CAP,E 47-25 SME	C608	87-010-188-089		C-CAP,S 6800P-50 B
C325	87-010-370-089		CAP,E 330-6.3 SME	C609	87-018-127-089		CAP,TC-U 470P-50 B
C326	87-010-196-089		C-CAP,S 0.1-25 F	C610	87-018-127-089		CAP,TC-U 470P-50 B
C330	87-010-401-089		CAP,E 1-50 SME	C611	87-010-197-089		C-CAP,S 0.01-25 B
C332	87-015-785-089		C-CAP,0.1-25 F	C612	87-010-197-089		C-CAP,S 0.01-25 B
C335	87-010-805-089		C-CAP,S 1-16F	C613	87-010-195-089		C-CAP,S 0.068-25 F
C336	87-010-805-089		C-CAP,S 1-16F	C614	87-010-195-089		C-CAP,S 0.068-25 F
C337	87-010-196-089		C-CAP,S 0.1-25 F	C615	87-010-404-089		CAP,E 4.7-50 SME
C338	87-010-196-089		C-CAP,S 0.1-25 F	C616	87-010-404-089		CAP,E 4.7-50 SME
C339	87-010-196-089		C-CAP,S 0.1-25 F	C617	87-010-404-089		CAP,E 4.7-50 SME
C340	87-015-785-089		C-CAP,0.1-25 F	C618	87-010-404-089		CAP,E 4.7-50 SME
C351	87-012-154-089		C-CAP,S 150P-50 CH	C641	87-010-196-089		C-CAP,S 0.1-25 F
C352	87-012-154-089		C-CAP,S 150P-50 CH	C642	87-010-196-089		C-CAP,S 0.1-25 F
C451	87-012-140-089		C-CAP,S 470P-50 CH	C673	87-010-316-089		C-CAP,S 33P-50 CH <EZ,K>
C452	87-012-140-089		C-CAP,S 470P-50 CH	C674	87-010-316-089		C-CAP,S 33P-50 CH <EZ,K>
C453	87-010-178-089		C-CAP,S 1000P-50 B	C675	87-010-318-089		C-CAP,S 47P-50 CH <EZ,K>
C454	87-010-175-089		C-CAP,S 560P-50 SL <EZ,K>	C676	87-010-318-089		C-CAP,S 47P-50 CH <EZ,K>
C455	87-010-178-089		C-CAP,S 1000P-50 B <EZ,K>	C701	87-010-381-089		CAP,E 330-16 SME
C456	87-010-408-089		CAP,E 47-50 SME	C702	87-010-404-089		CAP,E 4.7-50 SME
C457	87-010-197-089		C-CAP,S 0.01-25 B	C703	87-010-197-089		C-CAP,S 0.01-25 B
C458	87-010-183-089		C-CAP,S 2700P-50 B	C704	87-010-197-089		C-CAP,S 0.01-25 B
C459	87-010-183-089		C-CAP,S 2700P-50 B	C711	87-010-263-089		CAP,E 100-10 SME 5X11
C460	87-010-183-089		C-CAP,S 2700P-50 B	C712	87-010-196-089		C-CAP,S 0.1-25 F
C470	87-010-196-089		C-CAP,S 0.1-25 F	C722	87-010-152-089		C-CAP,S 8P-50 CH
C501	87-010-179-089		C-CAP,S 1200P-50 B	C723	87-010-178-089		C-CAP,S 1000P-50 B
C502	87-010-179-089		C-CAP,S 1200P-50 B	C725	87-010-178-089		C-CAP,S 1000P-50 B
C503	87-012-155-089		C-CAP,S 180P-50 CH	C727	87-010-196-089		C-CAP,S 0.1-25 F
C504	87-012-155-089		C-CAP,S 180P-50 CH	C728	87-010-248-089		CAP,E 220-10 SME
C515	87-010-545-089		CAP,E 0.22-50 SME	C735	87-018-134-089		CAP,TC-U 0.01-16 Y<U>
C516	87-010-545-089		CAP,E 0.22-50 SME	C770	87-010-405-089		CAP,E 10-50 SME
C519	87-015-785-089		C-CAP,0.1-25 F	C771	87-010-405-089		CAP,E 10-50 SME
C521	87-010-196-089		C-CAP,S 0.1-25 F	C772	87-010-194-089		C-CAP,S 0.047-25 F
C522	87-010-318-089		C-CAP,S 47P-50 CH	C773	87-010-196-089		C-CAP,S 0.1-25 F
C523	87-010-197-089		C-CAP,S 0.01-25 B	C774	87-010-263-089		CAP,E 100-10 SME 5X11
C524	87-010-402-089		CAP,E 2.2-50 SME	C775	87-010-405-089		CAP,E 10-50 SME

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C776	87-010-197-089	C-CAP,S	0.01-25 B	CF801	87-008-261-019		FLTR,SFE10.7MA5-A
C777	87-010-400-089	CAP,E	0.47-50 SME	CF802	87-008-261-019		FLTR,SFE10.7MA5-A
C778	87-010-401-089	CAP,E	1-50 SME	FFE801	86-NF4-670-019		FE PACK 2 EX-N<U>
C779	87-010-401-089	CAP,E	1-50 SME	FFE801	A8-6ZA-195-030		6ZA-1 YFEENM<EZ,K>
C780	87-010-197-089	C-CAP,S	0.01-25 B	FR121	87-029-060-089		RES,FUSE 33-1/4W J
C781	87-010-405-089	CAP,E	10-50 SME	FR122	87-029-060-089		RES,FUSE 33-1/4W J
C782	87-010-405-089	CAP,E	10-50 SME	J252	87-A60-024-019		JACK 6.3BLK W/S WKM
C785	87-010-197-089	C-CAP,S	0.01-25 B	J253	87-099-802-019		JACK,PIN 3P BRW
C786	87-010-197-089	C-CAP,S	0.01-25 B	J254	87-033-240-019		TERMINAL,HSP 4P324V1-05
C787	87-010-184-089	C-CAP,S	3300P-50 B	J652	87-099-741-019		JACK,PIN 2P (JT)
C788	87-010-184-089	C-CAP,S	3300P-50 B	J801	87-033-239-019		TERMINAL,HSP-154V-2<U>
C789	87-010-179-089	C-CAP,S	1200P-50 B K	J801	87-033-241-010		TERMINAL,ANT AJ-2093<EZ,K>
C790	87-010-179-089	C-CAP,S	1200P-50 B	L101	87-003-383-019		COIL,1UH-S
C791	87-010-401-089	CAP,E	1-50 SME	L102	87-003-383-019		COIL,1UH-S
C792	87-010-180-089	C-CAP,S	1500P-50 B <U>	L403	87-007-341-019		COIL,TRAP 85K
C792	87-010-182-089	C-CAP,S	2200P-50 B <EZ,K>	L404	87-007-341-019		COIL,TRAP 85K
C793	87-010-189-089	C-CAP,S	8200P-50 B	L451	87-007-342-019		COIL,OSC 85K BIAS
C794	87-010-408-089	CAP,E	47-50 SME	L701	87-A50-027-019		COIL,1 POLE MPX(TOK)
C795	87-010-194-089	C-CAP,S	0.047-25 F	L702	87-A50-027-019		COIL,1 POLE MPX(TOK)
C796	87-010-403-089	CAP,E	3.3-50 SME	L741	87-A50-015-019		COIL,FM DEF(TOK)
C802	87-010-197-089	C-CAP,S	0.01-25 B	L742	87-A90-051-019		FLTR,CFAZ-450(TOK)<EZ,K>
C803	87-018-134-089	CAP,TC-U	0.01-16 Y	L770	87-003-102-089		COIL,10UH
C814	87-010-196-089	C-CAP,S	0.1-25 F	L790	87-005-564-089		C-COIL,2.2UH
C815	87-018-134-089	CAP,TC-U	0.01-16 Y	L832	87-005-847-089		COIL,2.2UH(CECS)
C817	87-010-197-081	C-CAP,S	0.01-25 B<EZ,K>	L850	87-005-847-089		COIL,2.2UH(CECS)<EZ,K>
C818	87-010-197-081	C-CAP,S	0.01-25 B<EZ,K>	L941	87-A50-020-019		COIL,ANT LW(COI)<EZ,K>
C819	87-018-134-089	CAP,TC-U	0.01-16 Y<U>	L942	87-A50-019-019		COIL,OSC LW(COI)<EZ,K>
C820	87-010-408-089	CAP,E	47-50 SME	L943	87-005-564-089		C-COIL,2.2UH<EZ,K>
C821	87-010-197-089	C-CAP,S	0.01-25 B	L981	86-NF4-665-019		AM PACK 1(TOK)
C823	87-010-197-089	C-CAP,S	0.01-25 B	△ PR110	87-026-681-089		PROTECTOR,5A 60V 491<EZ,K>
C828	87-010-197-089	C-CAP,S	0.01-25 B	△ PR111	87-026-681-089		PROTECTOR,5A 60V 491<EZ,K>
C829	87-010-197-089	C-CAP,S	0.01-25 B	R105	87-022-600-089		RES,M/F 0.1-2W J
C830	87-015-819-089	CHIP CAP	0.01	R106	87-022-600-089		RES,M/F 0.1-2W J
C835	87-010-197-089	C-CAP,S	0.01-25 B	RY101	87-045-389-019		RELAY,12V SS-212DM5<U>
C860	87-010-248-080	CAP,E	220-10 SME<EZ,K>	RY101	87-045-361-010		RELAY,12VDH 2SU<EZ,K>
C861	87-010-196-089	C-CAP,S	0.1-25 F<EZ,K>	RY102	87-045-382-019		RELAY,OUAZ-SH-112L
C862	87-010-182-080	C-CAP,S	2200P-50 K B<EZ,K>	SFR301	87-024-174-089		SFR33K DIA6 V
C863	87-010-178-080	C-CAP,S	1000P-50 K B<EZ,K>	SFR302	87-024-174-089		SFR33K DIA6 V
C864	87-010-315-089	C-CAP,S	27P-50 C H<EZ,K>	SFR303	87-024-174-089		SFR33K DIA6 V
C865	87-010-315-089	C-CAP,S	27P-50 C H<EZ,K>	SFR304	87-024-174-089		SFR33K DIA6 V
C866	87-010-197-080	C-CAP,S	0.01-25 B<EZ,K>	SFR305	87-024-175-089		SFR,47K DIA6 V
C867	87-012-140-089	C-CAP,S	470P-50 C H<EZ,K>	SFR306	87-024-175-089		SFR,47K DIA6 V
C868	87-010-405-080	CAP,E	10-50 SME<EZ,K>	SFR451	87-024-175-089		SFR,47K DIA6 V
C869	87-010-196-089	C-CAP,S	0.1-25 F<EZ,K>	SFR452	87-024-175-089		SFR,47K DIA6 V
C871	87-010-805-080	C-CAP,S	1-16 Z F<EZ,K>	SFR722	87-024-171-089		SFR 4.7K DIA6 V
C872	87-010-197-080	C-CAP,S	0.01-25 B<EZ,K>	TC701	87-011-253-089		TRIMER,30P LAR
C901	87-010-197-089	C-CAP,S	0.01-25 B	TC942	87-011-253-089		TRIMER,30P LAR<EZ,K>
C902	87-015-785-089	C-CAP, 0.1-25 F		TH241	87-A90-157-089		C-THMS,4.7K<EZ,K>
C903	87-010-119-089	CAP,TC-U	100P-50 B	VR651	82-NF5-660-019		VR 50K BX2 RK14K 12A
C941	87-010-314-089	C-CAP,S	22P-50 CH	W101	85-NF5-628-019		F-CABLE 7P-2.5
C942	87-010-154-089	C-CAP,S	10P-50 D CH<EZ,K>	W301	86-NF5-618-019		CONN ASSY,8P RPB
C943	87-010-197-089	C-CAP,S	0.01-25 B<EZ,K>	W604	85-NF5-617-019		CABLE,FFC 6P-1.25
C944	87-014-051-089	CAP,PP	560P-100 J	X703	84-508-618-019		VIB,CER CSB 456 F/5
C945	87-010-197-089	C-CAP,S	0.01-25 B	X721	87-030-372-019		VIB,XTAL 7.2MHZ
C946	87-010-401-089	CAP,E	1-50 SME	X850	89-KT1-608-010		VIB,XTAL 4.332MHZ<EZ,K>
C949	87-014-049-080	CAP,PP	470P-100 J<EZ,K>				
C950	87-014-073-089	CAP,PP	4700P-100 J	FRONT C.B			
C952	87-010-197-089	C-CAP,S	0.01-25 B <EZ,K>				
C953	87-010-197-089	C-CAP,S	0.01-25 B	C130	87-010-196-080		C-CAP,S 0.1-25 Z F
C954	87-010-400-089	CAP,E	0.47-50	C201	87-010-404-040		CAP,E 4.7-50 SME
C956	87-010-263-089	CAP,E	100-10 SME 5X11	C202	87-010-404-040		CAP,E 4.7-50 SME
C957	87-010-315-089	C-CAP,S	27P-50 CH<EZ,K>	C203	87-010-407-040		CAP,E 33-50 M SME
C958	87-010-197-080	C-CAP,S	0.01-25 B<EZ,K>	C204	87-010-494-040		CAP,E 1-50 5L SRE
C960	87-010-196-089	C-CAP,S	0.1-25 F	C205	87-010-555-040		CAP,E 100-10 5L SRE
C961	87-010-152-089	C-CAP,S	8P-50 CH<U>	C206	87-A10-116-040		CAP,E 330-6.3 GAS
C987	87-018-134-089	CAP,TC-U	0.01-16 Y	C207	87-010-494-040		CAP,E 1-50 5L SRE
C990	87-010-197-089	C-CAP,S	0.01-25 B	C208	87-010-196-080		C-CAP,S 0.1-25 Z F
C993	87-018-134-089	CAP,TC-U	0.01-16 Y	C209	87-010-316-080		C-CAP,S 33P-50 J CH
C995	87-010-197-089	C-CAP,S	0.01-25 B	C210	87-010-311-089		C-CAP,S 12P-50 J CH
C999	87-010-196-089	C-CAP,S	0.1-25 F	C211	87-010-405-040		CAP,E 10-50 M SME

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C212	87-010-378-040		CAP,E 10-16 SME	C718	87-015-697-080		CAP,E 3.3-50 7L SRA
C213	87-010-196-080		C-CAP,S 0.1-25 Z F	C730	87-010-371-080		CAP,E 470-6.3 SME
C214	87-010-196-080		C-CAP,S 0.1-25 Z F	C731	87-015-684-040		CAP,E 47-16 7L SRA
C215	87-010-196-080		C-CAP,S 0.1-25 Z F	C733	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C223	87-010-178-080		C-CAP,S 1000P-50 K B	C734	87-012-157-080		C-CAP,S 330P-50 J CH GRM
C250	87-010-178-080		C-CAP,S 1000P-50 K B	C737	87-015-697-080		CAP,E 3.3-50 7L SRA
C251	87-010-196-080		C-CAP,S 0.1-25 Z F	C738	87-015-695-040		CAP,E 1-50 7L SRA
C270	87-018-209-089		CAP,TC-U 0.1-50 F	C836	87-010-991-080		C-CAP,2.2-16 ZYSV
C271	87-010-196-080		C-CAP,S 0.1-25 Z F	FB601	87-008-372-080		FLTR,EMIBL01 RN1
C280	87-010-322-080		C-CAP,S 100P-50 J CH	FL101	86-NFA-604-010		FL, BJ481GK
C281	87-010-322-080		C-CAP,S 100P-50 J CH	J601	82-NF7-630-010		JACK,3.5 MO
C381	87-010-196-080		C-CAP,S 0.1-25 Z F	J621	82-NF7-630-010		JACK,3.5 MO
C382	87-010-196-080		C-CAP,S 0.1-25 Z F	L201	87-A50-052-010		COIL,CLOCK 5.76MHZ T1
C383	87-010-196-080		C-CAP,S 0.1-25 Z F	L650	87-005-487-080		COIL,150UH J FLR50
C384	87-010-196-080		C-CAP,S 0.1-25 Z F	LED401	87-017-784-080		LED,SEL 1550 CM TP8 PGRN
C385	87-010-322-080		C-CAP,S 100P-50 J CH	LED402	87-017-784-080		LED,SEL 1550 CM TP8 PGRN
C389	87-010-196-080		C-CAP,S 0.1-25 Z F	LED403	87-017-784-080		LED,SEL 1550 CM TP8 PGRN
C401	87-010-196-080		C-CAP,S 0.1-25 Z F	LED404	87-017-784-080		LED,SEL 1550 CM TP8 PGRN
C402	87-010-196-080		C-CAP,S 0.1-25 Z F	LED405	87-017-784-080		LED,SEL 1550 CM TP8 PGRN
C501	87-015-684-040		CAP,E 47-16 7L SRA	LED406	87-017-784-080		LED,SEL 1550 CM TP8 PGRN
C602	87-010-322-080		C-CAP,S 100P-50 J CH<EZ,K>	LED407	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
C603	87-010-177-080		C-CAP,S 820P-50 J SL	LED408	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
C604	87-010-168-080		C-CAP,S 4700P-50 K B	LED409	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
C605	87-015-692-040		CAP,E 0.22-50 7L SRA	LED410	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
C606	87-010-196-080		C-CAP,S 0.1-25 Z F	LED411	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
C607	87-010-321-080		C-CAP,S 82P-50 J CH	LED412	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
C608	87-010-112-040		CAP,E 100-16 SME	LED413	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
C609	87-010-196-080		C-CAP,S 0.1-25 Z F	LED414	87-070-199-080		LED,SLP-738F-81-S-T1 P-GRN
C611	87-010-248-080		CAP,E 220-10 SME	LED420	87-070-201-080		LED,SLP-9118C-51-S RED
C612	87-010-322-080		C-CAP,S 100P-50 J CH	LED421	87-070-201-080		LED,SLP-9118C-51-S RED
C613	87-010-196-080		C-CAP,S 0.1-25 Z F	LED422	87-070-201-080		LED,SLP-9118C-51-S RED
C614	87-010-178-080		C-CAP,S 1000P-50 K B	LED423	87-070-201-080		LED,SLP-9118C-51-S RED
C630	87-010-378-040		CAP,E 10-16 SME	LED424	87-070-278-010		LED,SLZ-738A-24S PGRN
C640	87-010-406-040		CAP,E 22-50 SME	LED425	87-070-278-010		LED,SLZ-738A-24S PGRN
C646	87-015-785-080		C-CAP, 0.1-25 Z F	LED426	87-070-278-010		LED,SLZ-738A-24S PGRN
C647	87-010-196-080		C-CAP,S 0.1-25 Z F	LED427	87-070-278-010		LED,SLZ-738A-24S PGRN
C648	87-010-322-080		C-CAP,S 100P-50 J CH	LED428	87-070-290-010		LED,SLZ-936C-30-S RED
C651	87-010-311-080		C-CAP,S 12P-50 J CH	LED429	87-070-290-010		LED,SLZ-936C-30-S RED
C652	87-010-311-080		C-CAP,S 12P-50 J CH	R300	87-022-355-080		C-RES,S 10K-1/10W F
C653	87-010-426-080		C-CAP,S 0.012-25 K B	R320	87-022-355-080		C-RES,S 10K-1/10W F
C654	87-010-178-080		C-CAP,S 1000P-50 K B	S301	87-036-215-080		SW,TACT EVQ 214 04M
C656	87-016-461-080		C-CAP,S 0.47-16 Z F	S302	87-036-215-080		SW,TACT EVQ 214 04M
C657	87-010-196-080		C-CAP,S 0.1-25 Z F	S303	87-036-215-080		SW,TACT EVQ 214 04M
C658	87-010-263-040		CAP,E 100-10 SME	S304	87-036-215-080		SW,TACT EVQ 214 04M
C659	87-010-263-040		CAP,E 100-10 SME	S321	87-036-215-080		SW,TACT EVQ 214 04M
C661	87-010-177-080		C-CAP,S 820P-50 J SL	S322	87-036-215-080		SW,TACT EVQ 214 04M
C664	87-012-141-080		C-CAP,S 0.22-16 Z F	S323	87-036-215-080		SW,TACT EVQ 214 04M
C665	87-010-184-080		C-CAP,S 3300P-50 K B	S324	87-036-215-080		SW,TACT EVQ 214 04M
C666	87-010-426-080		C-CAP,S 0.012-25 K B	S325	87-036-215-080		SW,TACT EVQ 214 04M
C668	87-016-461-080		C-CAP,S 0.47-16 Z F	S326	87-036-215-080		SW,TACT EVQ 214 04M
C669	87-010-404-040		CAP,E 4.7-50 SME	S327	87-036-215-080		SW,TACT EVQ 214 04M
C670	87-010-404-040		CAP,E 4.7-50 SME	S328	87-036-215-080		SW,TACT EVQ 214 04M
C671	87-012-156-080		C-CAP,S 220P-50 J CH GRM	S329	87-036-215-080		SW,TACT EVQ 214 04M
C675	87-010-180-080		C-CAP,S 1500P-50 B	S330	87-036-215-080		SW,TACT EVQ 214 04M
C701	87-015-697-080		CAP,E 3.3-50 7L SRA	S331	87-036-215-080		SW,TACT EVQ 214 04M<EZ,K>
C702	87-015-697-080		CAP,E 3.3-50 7L SRA	S341	87-036-215-080		SW,TACT EVQ 214 04M
C703	87-010-993-080		C-CAP, 0.056-25 BK	S342	87-036-215-080		SW,TACT EVQ 214 04M
C704	87-010-993-080		C-CAP, 0.056-25 BK	S343	87-036-215-080		SW,TACT EVQ 214 04M
C705	87-016-460-080		C-CAP, 0.22-16 BK	S344	87-036-215-080		SW,TACT EVQ 214 04M
C706	87-016-460-080		C-CAP, 0.22-16 BK	S345	87-036-215-080		SW,TACT EVQ 214 04M
C707	87-010-182-080		C-CAP,S 2200P-50 K B	S346	87-036-215-080		SW,TACT EVQ 214 04M<EZ,K>
C708	87-010-182-080		C-CAP,S 2200P-50 K B	S347	87-036-215-080		SW,TACT EVQ 214 04M
C709	87-012-393-080		C-CAP, 0.22-16 RK	S348	87-036-215-080		SW,TACT EVQ 214 04M
C710	87-012-393-080		C-CAP, 0.22-16 RK	S349	87-036-215-080		SW,TACT EVQ 214 04M
C711	87-010-196-080		C-CAP,0.1-25 Z F	S350	87-036-215-080		SW,TACT EVQ 214 04M
C712	87-015-681-040		CAP,E 10-16 7L SRA	S351	87-036-215-080		SW,TACT EVQ 214 04M
C713	87-010-260-040		CAP,E 47-25 SME	S352	87-036-215-080		SW,TACT EVQ 214 04M<EZ,K>
C714	87-010-263-040		CAP,E 100-10 SME	S353	87-036-215-080		SW,TACT EVQ 214 04M
C715	87-015-697-080		CAP,E 3.3-50 7L SRA	S701	86-NFA-605-010		SW,RTRY REB161
C717	87-015-697-080		CAP,E 3.3-50 7L SRA	VR601	86-NFA-606-010		VR,RTRY 10KBX1 1 V XV0121PVN

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
R41	87-022-365-089		C-RES, S 100K-1/10W F	DECK C.B			
SFR11	87-024-175-089		SFR, 47K DIA6V	CON502	82-ZM1-625-019		REN, CORD, 4P-55
SFR12	87-024-173-089		SFR, 22K HRHO638C	SFR1	87-024-581-089		SFR, 3.3K DIA 6H
SFR13	87-024-176-089		SFR, 100K DIA6V	SOL1	82-ZM1-618-010		SOL ASSY, 27
SW601	87-036-109-019		SW, PUSH SPPB 61	SOL2	82-ZM1-618-010		SOL ASSY, 27
SW602	87-036-109-019		SW, PUSH SPPB 61	SW1	87-036-378-010		SW, PUSH 1-1-1 SH2
SW603	87-036-109-019		SW, PUSH SPPB 61	SW2	87-036-378-010		SW, PUSH 1-1-1 SH2
W604	88-906-261-110		FF-CABLE 6P 1.25 260MM	SW3	87-036-378-010		SW, PUSH 1-1-1 SH2
X101	87-030-402-089		VIB, XTAL 16.9344MHZ	SW4	87-036-378-010		SW, PUSH 1-1-1 SH2
LED C.B				SW5	87-036-378-010		SW, PUSH 1-1-1 SH2
LED701	87-017-733-080		LED, SEL1250SM	SW6	87-036-378-019		SW, PUSH 1-1-1 SH2
LED702	87-017-350-080		LED, SEL1550CM	SW8	87-036-378-019		SW, PUSH 1-1-1 SH2
LED703	87-017-733-080		LED, SEL1250SM	W502	87-099-756-019		CONN, 15P 9604 S F
T-T C.B				HEAD-1 C.B			
C411	87-018-214-089		CAP, TC U 0.1-50	HEAD-2 C.B			
LED411	87-070-288-019		LED, GL380	CON351	86-NF5-618-110		CONN ASSY, 8P RPB
M401	87-A90-036-019		MOT ASSY, RF-300CA-11				
PS401	87-A90-156-019		SNSR, SG-240				
Q411	87-A30-031-019		P-TR, PT380F				
SW401	87-036-109-019		SW, PUSH SPPB61				
CD MOTOR C.B							
SW1	87-036-340-019		SW, LEAF LSA-1121				
M20	87-045-358-019		MOT, RF-310TA 43				
M21	87-045-356-019		MOT, RF-310TA 30				

○チップ抵抗部品コード/CHIP RESISTOR PART CODE



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



E C B

2SA1296GR
2SC3266GR
KTA1266GR
KTC3198GR



E C B

2SA952K
2SD655E
2SA970GR
2SA1015GR
2SC2001K



E C B

DTA114YS
DTA114ES
2SA933S



E C B

2SA1318
2SC3331T



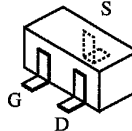
B C E

2SB1370



S G D

2SK246

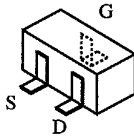


2SK543

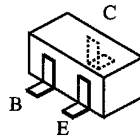


E C B

2SD2005
2SD2172V/W



2SK209

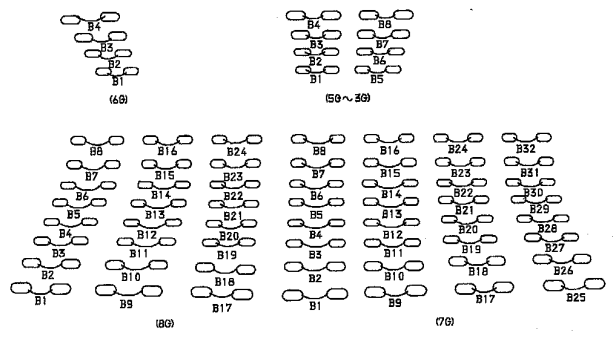
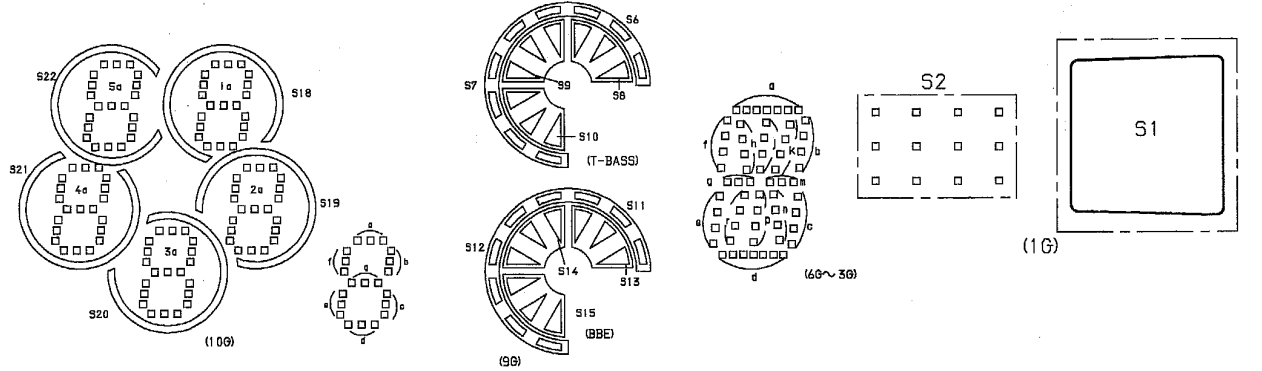
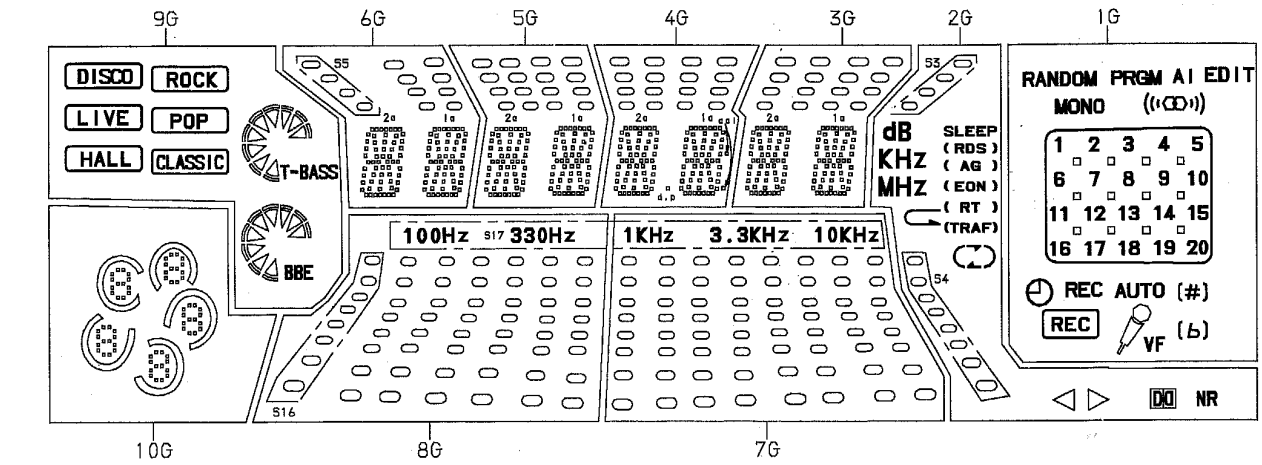


2SA1162
2SC2712
2SC2714
2SC3326
2SC3722
2SD2114
DTA114TK
DTA124EK
UN2214

DTA143EK
DTA144EK
DTC114TK
DTC123JK
DTC143EK
DTC143TK
DTC144EK
DTC144WK

FL GRID ASSIGNMENT & ANODE CONNECTION

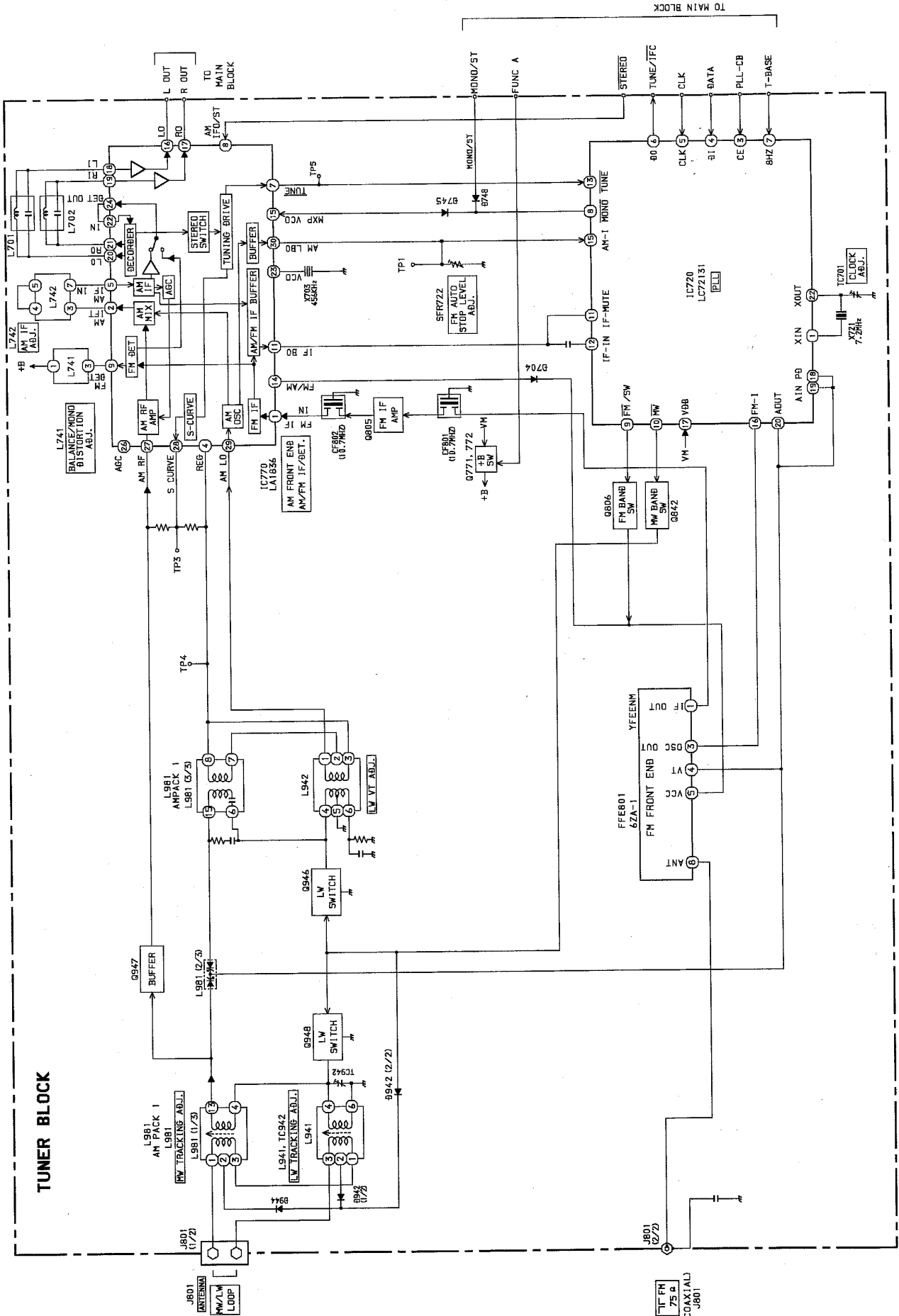
FL, BJ481 GK
GRID ASSIGNMENT



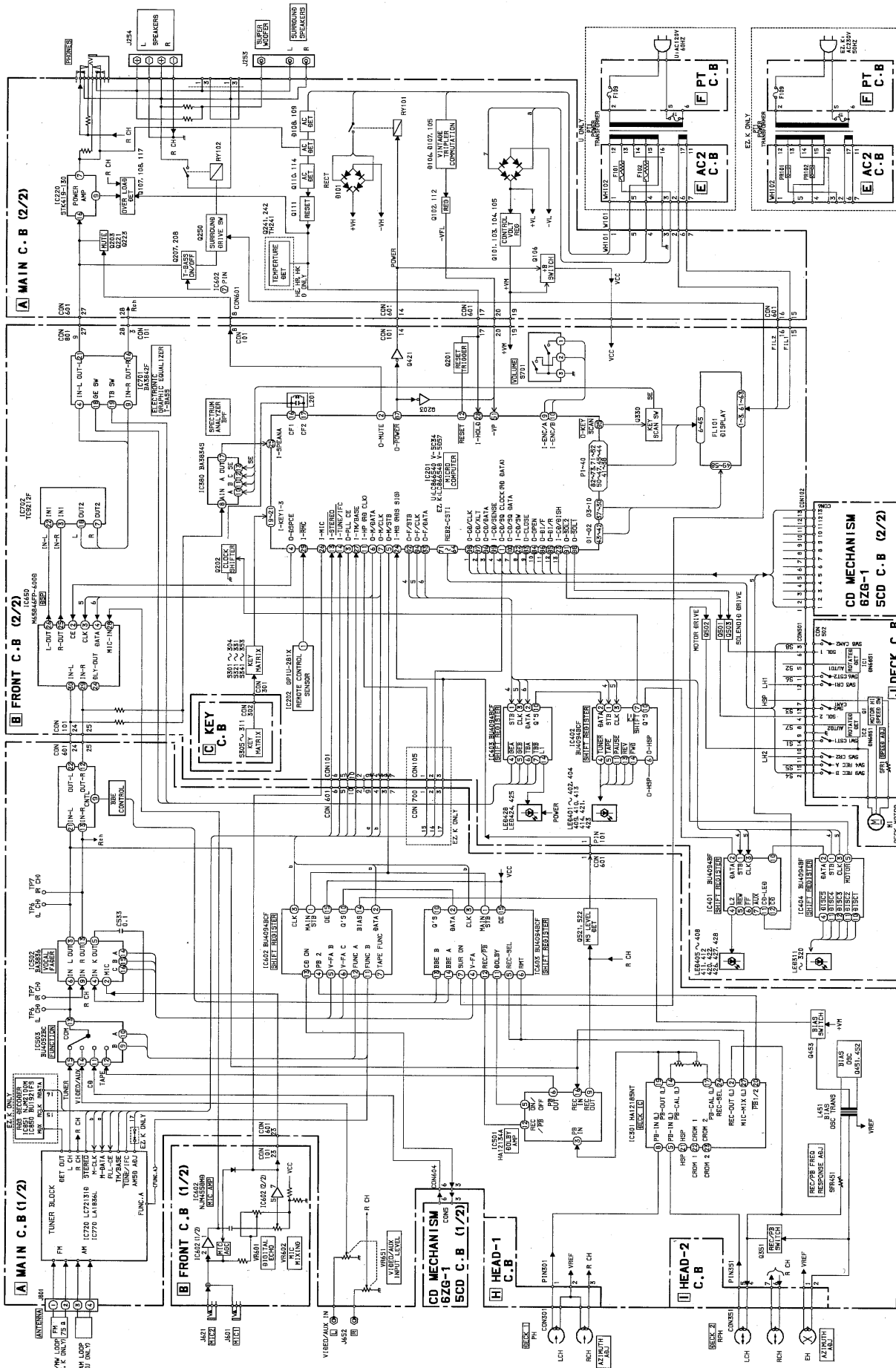
ANODE CONNECTION

	10G	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	1a	-	B8	B8	1d	1d	1d	1d		EDIT
P2	1b	-	B16	B16	1n	1n	1n	1n	-	((100))
P3	1f	-	B24	B24	1p	1p	1p	1p	-	AI
P4	1g	-	-	B32	1r	1r	1r	1r	RT	PRGM
P5	1c	-	B7	B7	1e	1e	1e	1e	((RT))	MONO
P6	1e	-	B15	B15	1c	1c	1c	1c	EON	RANDOM
P7	1d	-	B23	B23	1g	1g	1g	1g	((EON))	5
P8	S18	-	-	B31	1m	1m	1m	1m	MHz	4
P9	5a	-	B6	B6	1f	1f	1f	1f	KHz	3
P10	5b	-	B14	B14	1b	1b	1b	1b	dB	2
P11	5f	-	B22	B22	1k	1k	1k	1k	AG	1
P12	5g	-	-	B30	1j	1j	1j	1j	((AG))	10
P13	5c	-	B5	B5	1h	1h	1h	1h	RDS	9
P14	5e	-	B13	B13	1a	1a	1a	1a	((RDS))	8
P15	5d	BBE	B21	B21	-	-	COL	-	SLEEP	7
P16	S22	S15	-	B29	-	-	db	-	-	6
P17	2e	S13	B4	B4	2d	2d	2d	2d	-	15
P18	2b	S14	B12	B12	2n	2n	2n	2n	-	14
P19	2f	S11	B20	B20	2p	2p	2p	2p	-	13
P20	2g	S12	-	B28	2r	2r	2r	2r	-	12
P21	2c	T-BASS	B3	B3	2e	2e	2e	2e	-	11
P22	2e	S10	B11	B11	2c	2c	2c	2c	-	S2
P23	2d	S8	B19	B19	2g	2g	2g	2g	-	20
P24	S19	S9	-	B27	2m	2m	2m	2m	-	19
P25	4a	S6	B2	B2	2f	2f	2f	2f	-	18
P26	4b	S7	B10	B10	2b	2b	2b	2b	-	17
P27	4f	CLASSIC	B18	B18	2k	2k	2k	2k	-	16
P28	4g	HALL	-	B26	2j	2j	2j	2j	-	S1
P29	4c	(CLASSIC)	B1	B1	2h	2h	2h	2h	TRAF	#
P30	4e	(HALL)	B9	B9	2a	2a	2a	2a	((TRAF))	((#))
P31	4d	POP	B17	B17	B1	B5	B5	B5)	AUTO
P32	S21	LIVE	-	B25	-	B1	B1	B1		
P33	3a	(POP)	-	-	B2	B6	B6	B6	(REC
P34	3b	(LIVE)	-	-	-	B2	B2	B2	NR	b
P35	3f	ROCK	-	-	B3	B7	B7	B7		(((b)))
P36	3g	DISCO	-	-	-	B3	B3	B3		VF
P37	3c	(ROCK)	-	-	B4	B8	B8	B8		REC
P38	3e	(DISCO)	S16	-	S5	B4	B4	B4	S3, S4	(REC)
P39	3d	-	S17	S17	-	-	-	-	-	-
P40	S20	-	-	-	-	-	-	-	-	-

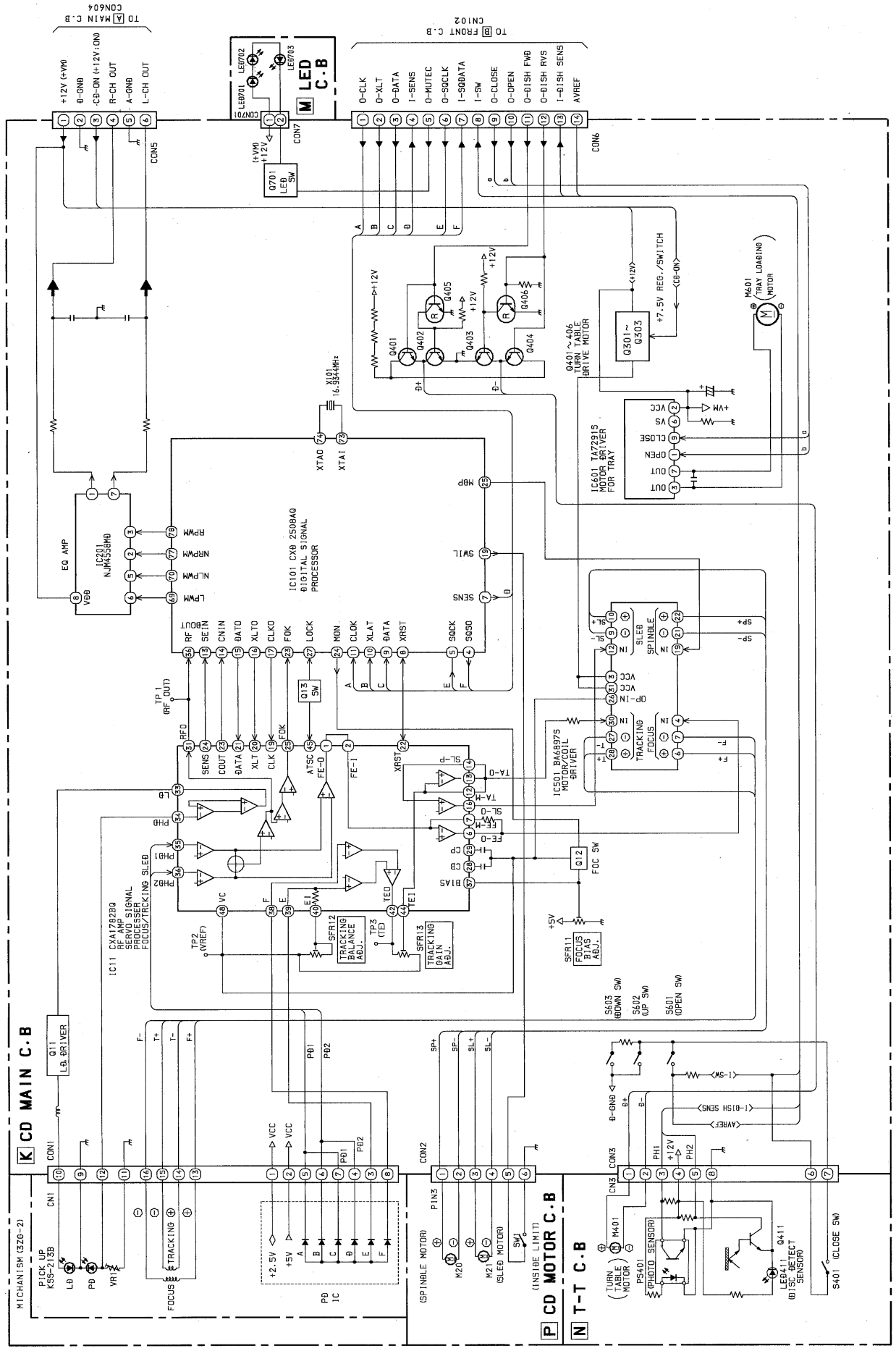
BLOCK DIAGRAM - 1 (TUNER : EZ,K)



BLOCK DIAGRAM - 3 (MAIN/FRONT)



BLOCK DIAGRAM - 4 (CD)



1 2 3 4 5 6 7 8 9 10 11 12 13 14

A MAIN C.B

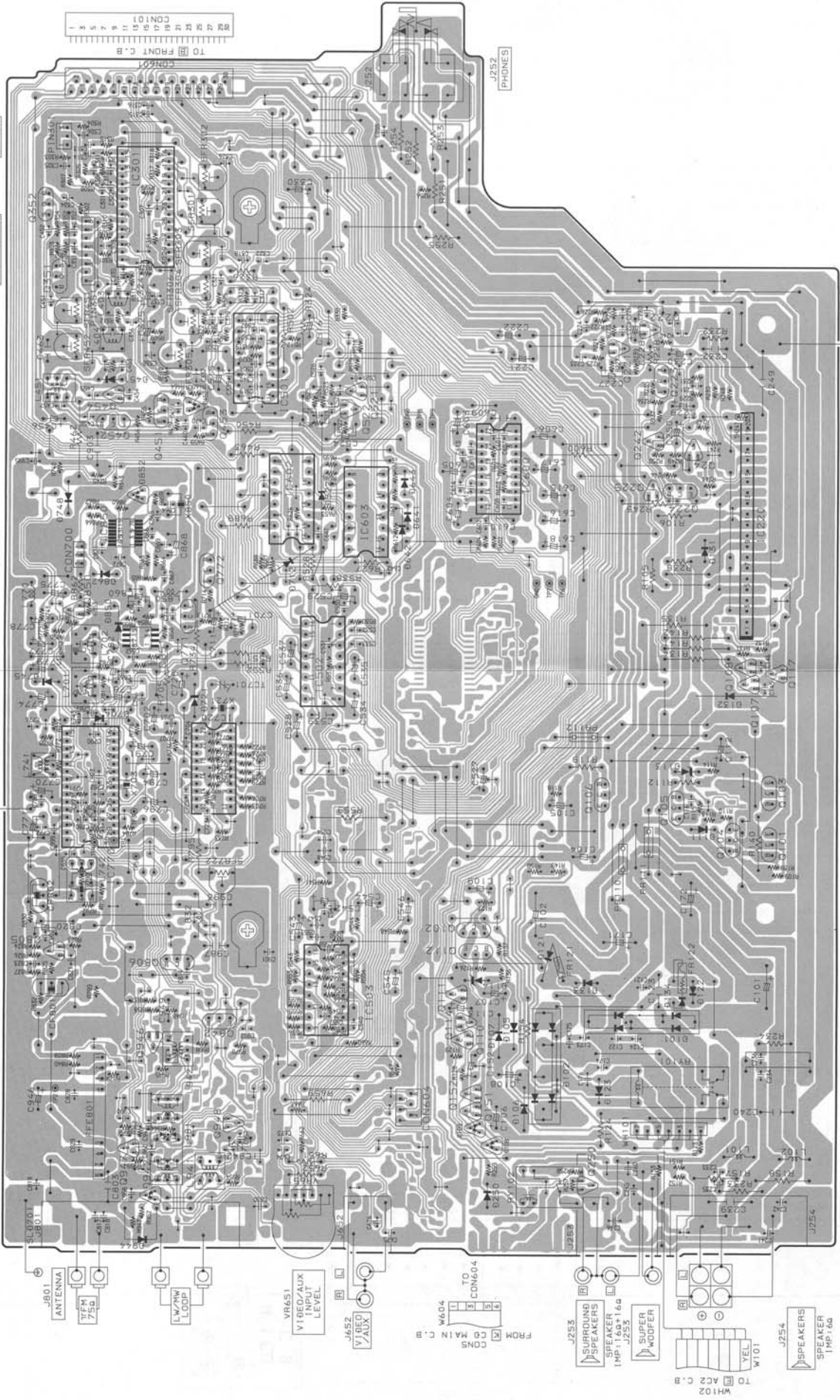
FROM HEAD-2 C.B FROM HEAD-1 C.B

CON351 7,8

CON301 11,9

FROM FRONT C.B

CON105



J651 ANTENNA

J652 VIBED/AUX

J653 SURROUND SPEAKERS IMP:1.6Ω+1.6Ω

J654 SPEAKERS IMP:7.6Ω

J655 SUPER WOOFER

J656 SPEAKERS IMP:7.6Ω

J657 SPEAKERS IMP:7.6Ω

J658 SPEAKERS IMP:7.6Ω

J659 SPEAKERS IMP:7.6Ω

J660 SPEAKERS IMP:7.6Ω

J661 SPEAKERS IMP:7.6Ω

J662 SPEAKERS IMP:7.6Ω

J663 SPEAKERS IMP:7.6Ω

J664 SPEAKERS IMP:7.6Ω

J665 SPEAKERS IMP:7.6Ω

J666 SPEAKERS IMP:7.6Ω

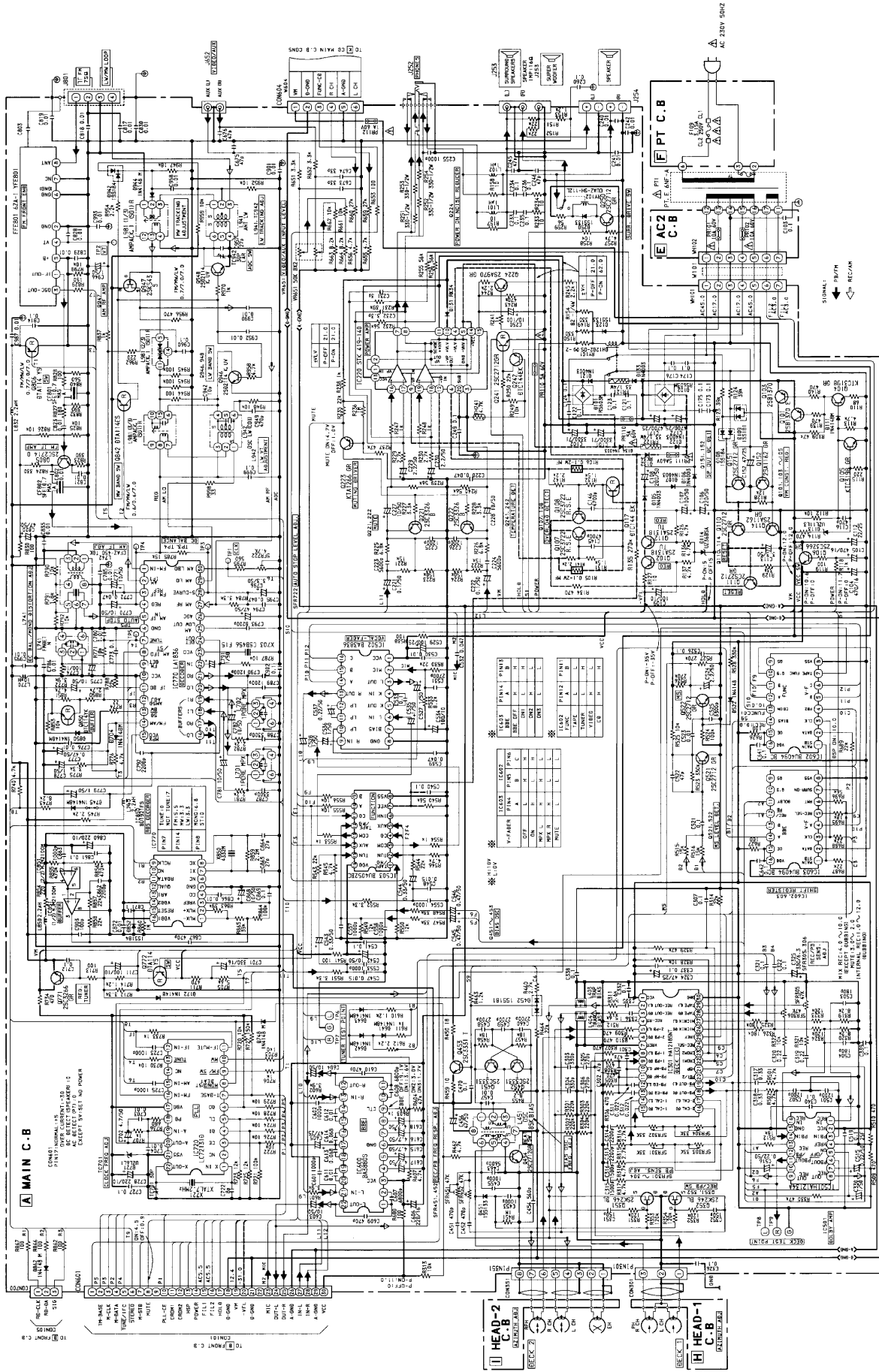
J667 SPEAKERS IMP:7.6Ω

J668 SPEAKERS IMP:7.6Ω

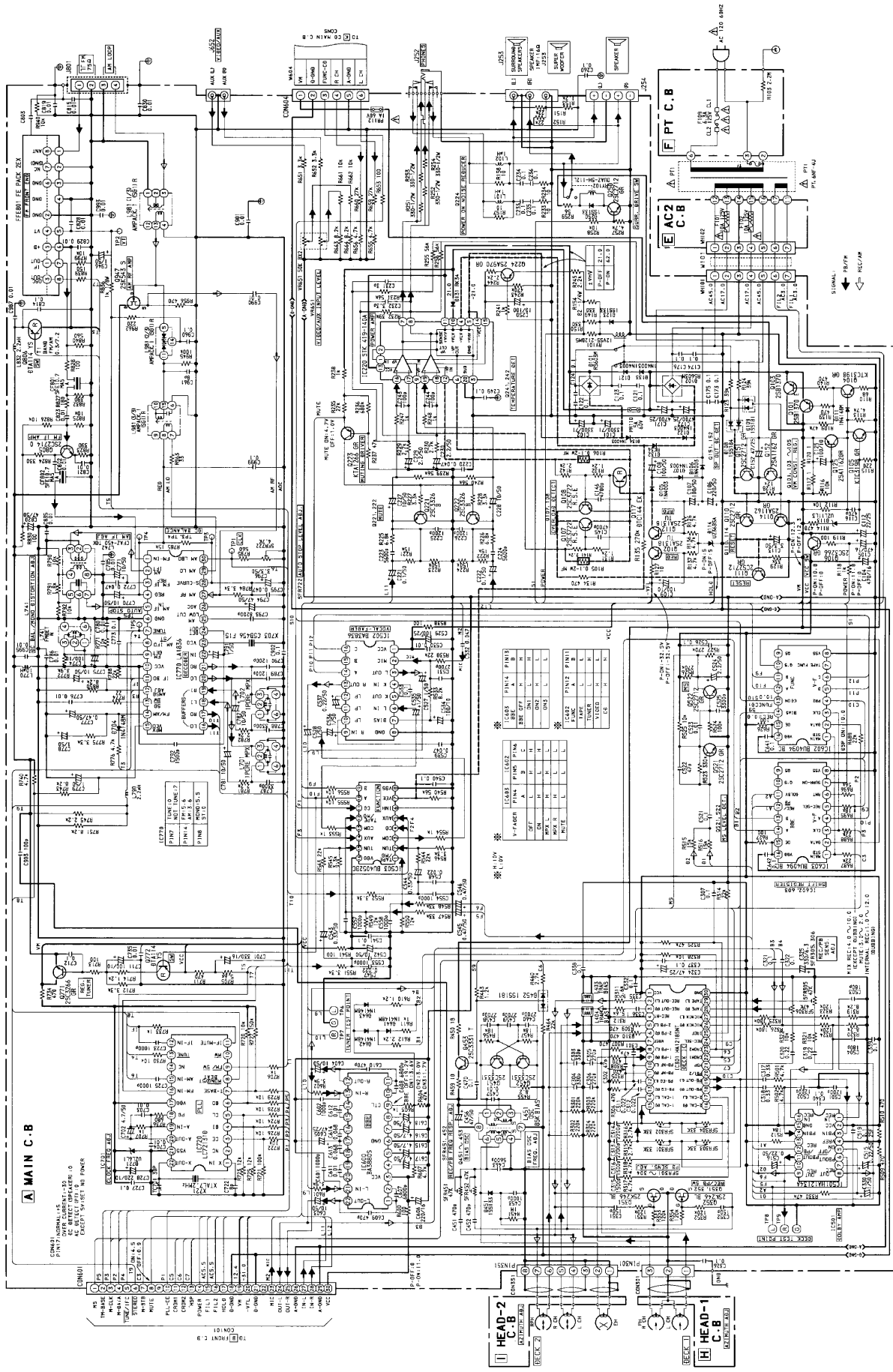
J669 SPEAKERS IMP:7.6Ω

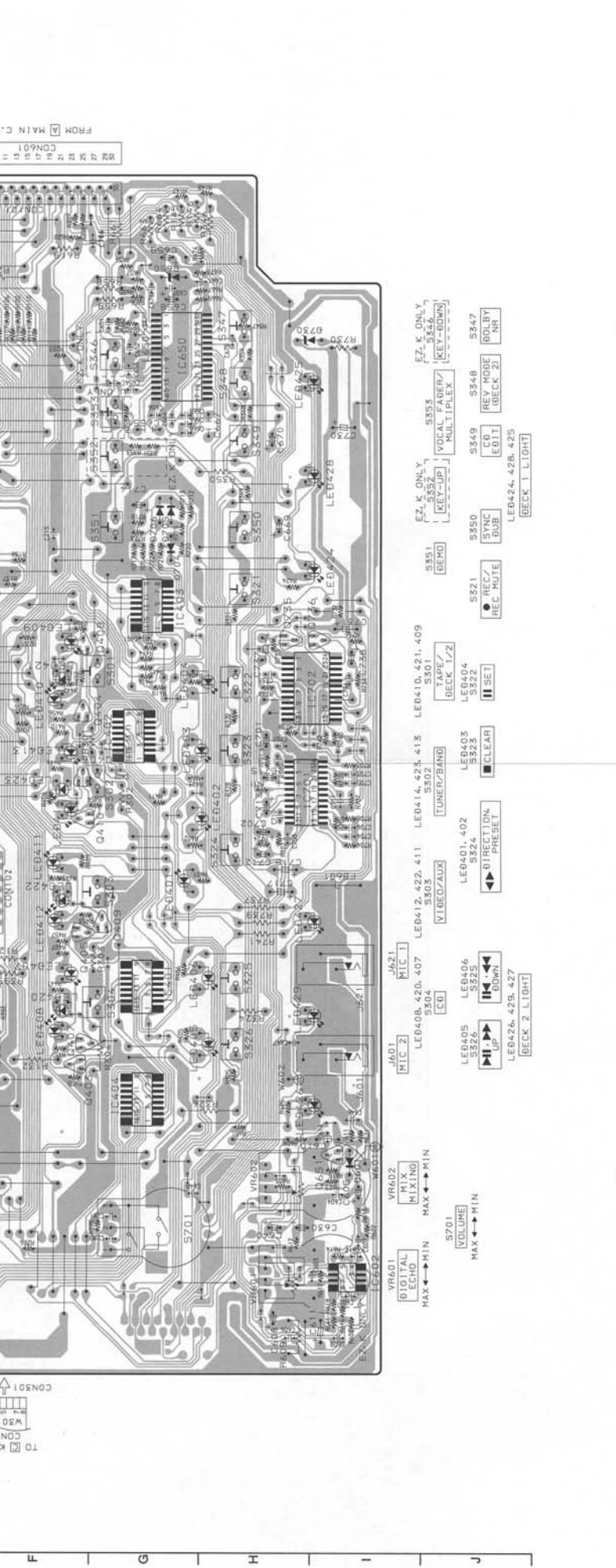
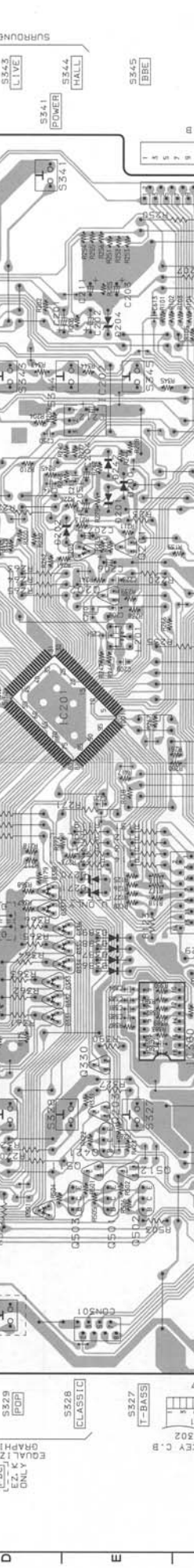
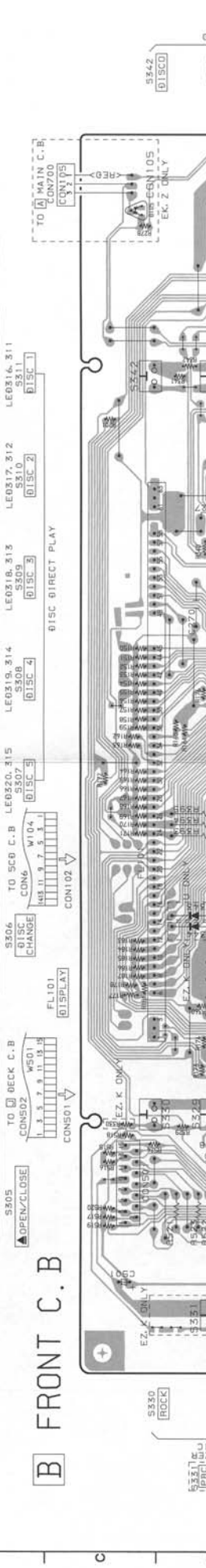
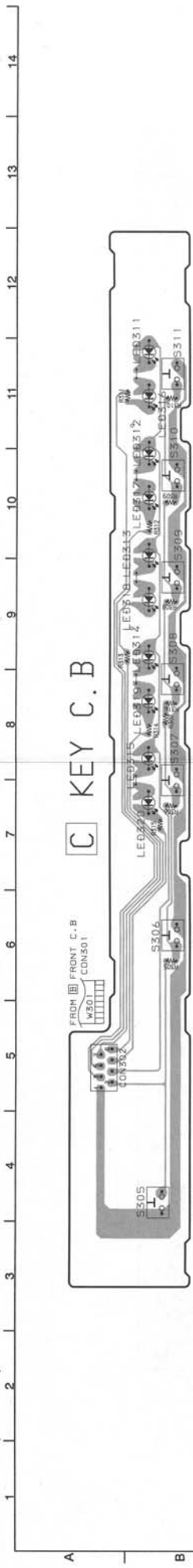
J670 SPEAKERS IMP:7.6Ω

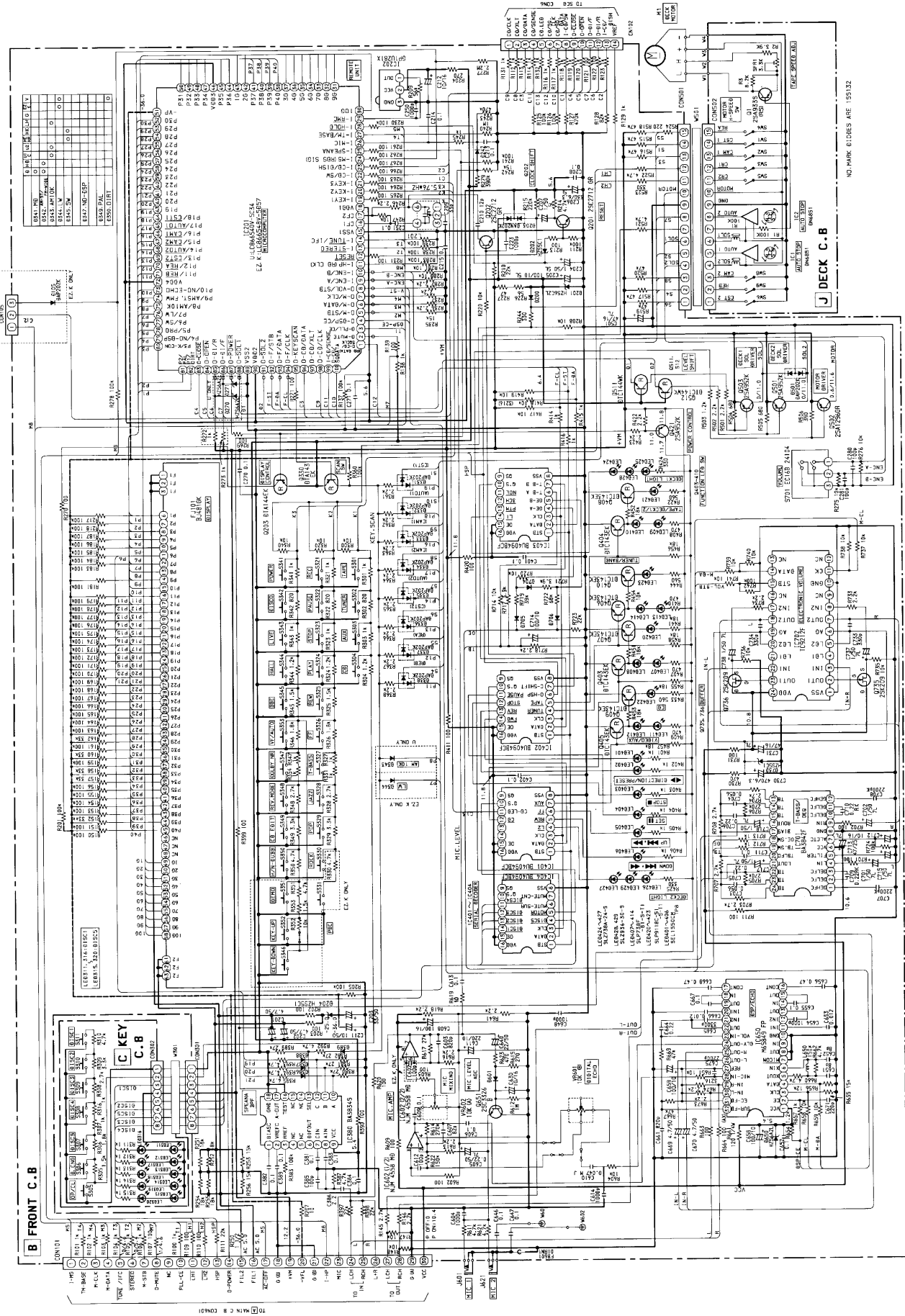
SCHEMATIC DIAGRAM - 1 (MAIN : EZ, K)



SCHEMATIC DIAGRAM - 2 (MAIN .U)







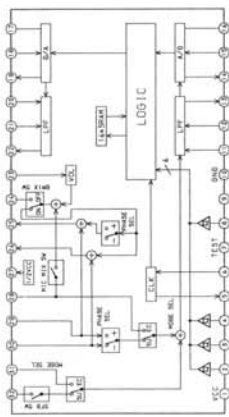
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2	6	7	8	9	10
3	11	12	13	14	15
4	16	17	18	19	20
5	21	22	23	24	25
6	26	27	28	29	30
7	31	32	33	34	35
8	36	37	38	39	40
9	41	42	43	44	45
10	46	47	48	49	50

NO.	TEST POINT	TEST POINT	TEST POINT	TEST POINT	TEST POINT
1	1	2	3	4	5
2	6	7	8	9	10
3	11	12	13	14	15
4	16	17	18	19	20
5	21	22	23	24	25
6	26	27	28	29	30
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8	36	37	38	39	40
9	41	42	43	44	45
10	46	47	48	49	50

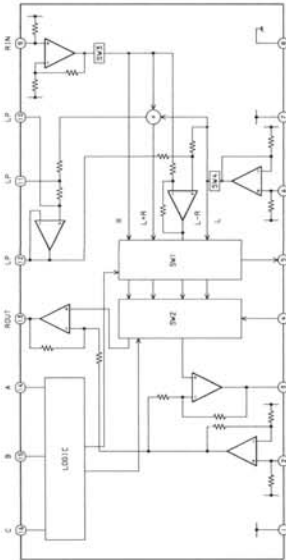
NO MARK EUBERS ARE 15132

IC BLOCK DIAGRAM - 1

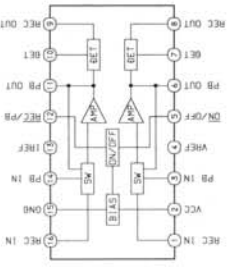
IC, M65694FP



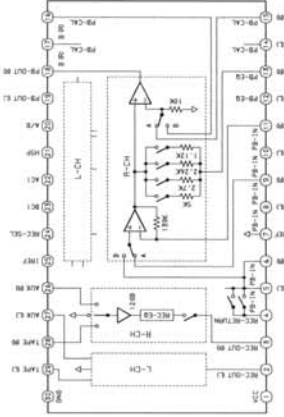
IC, BA3836



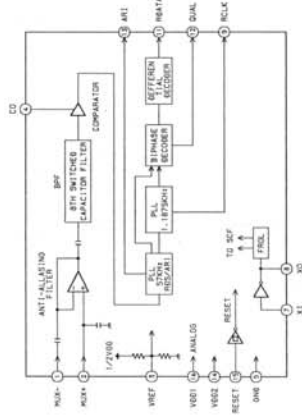
IC, HA12134A



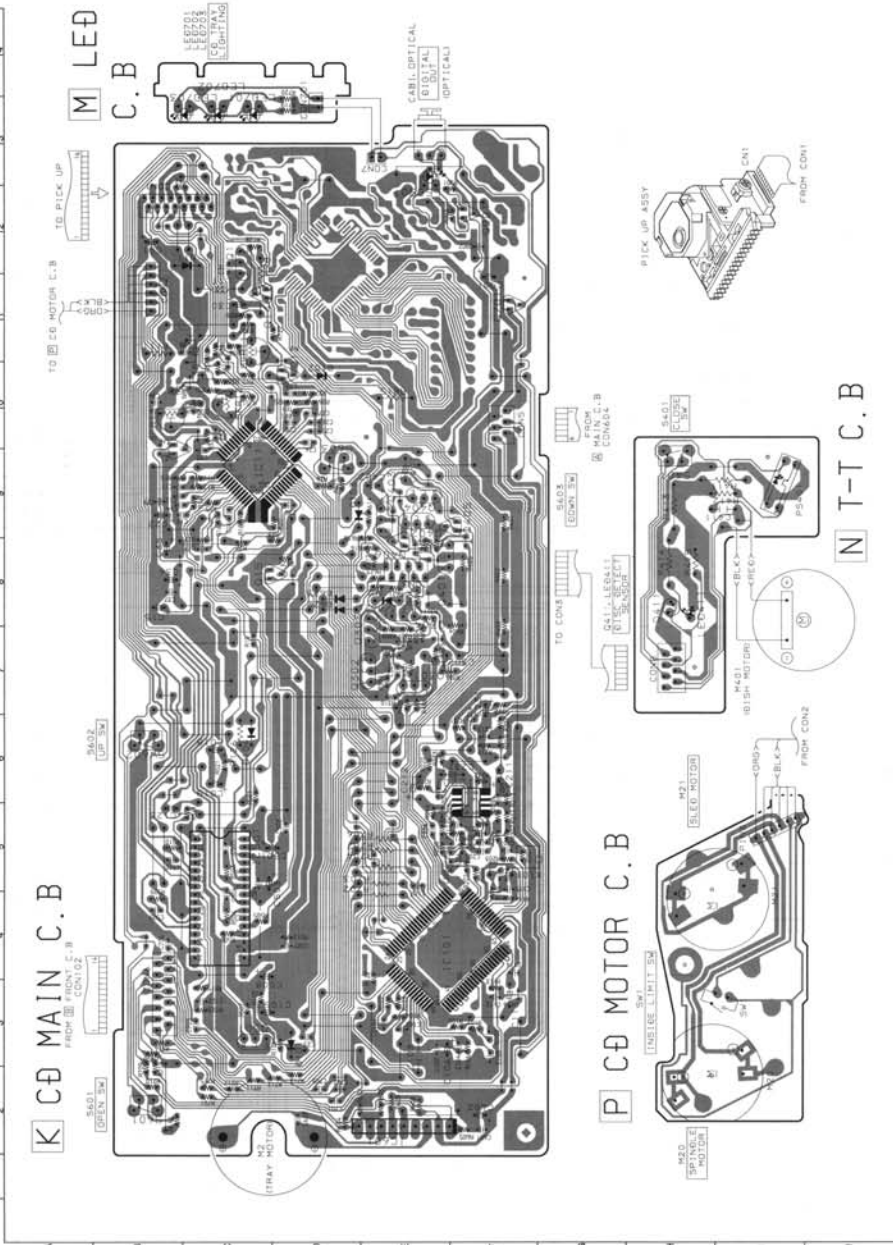
IC, HA1221NT



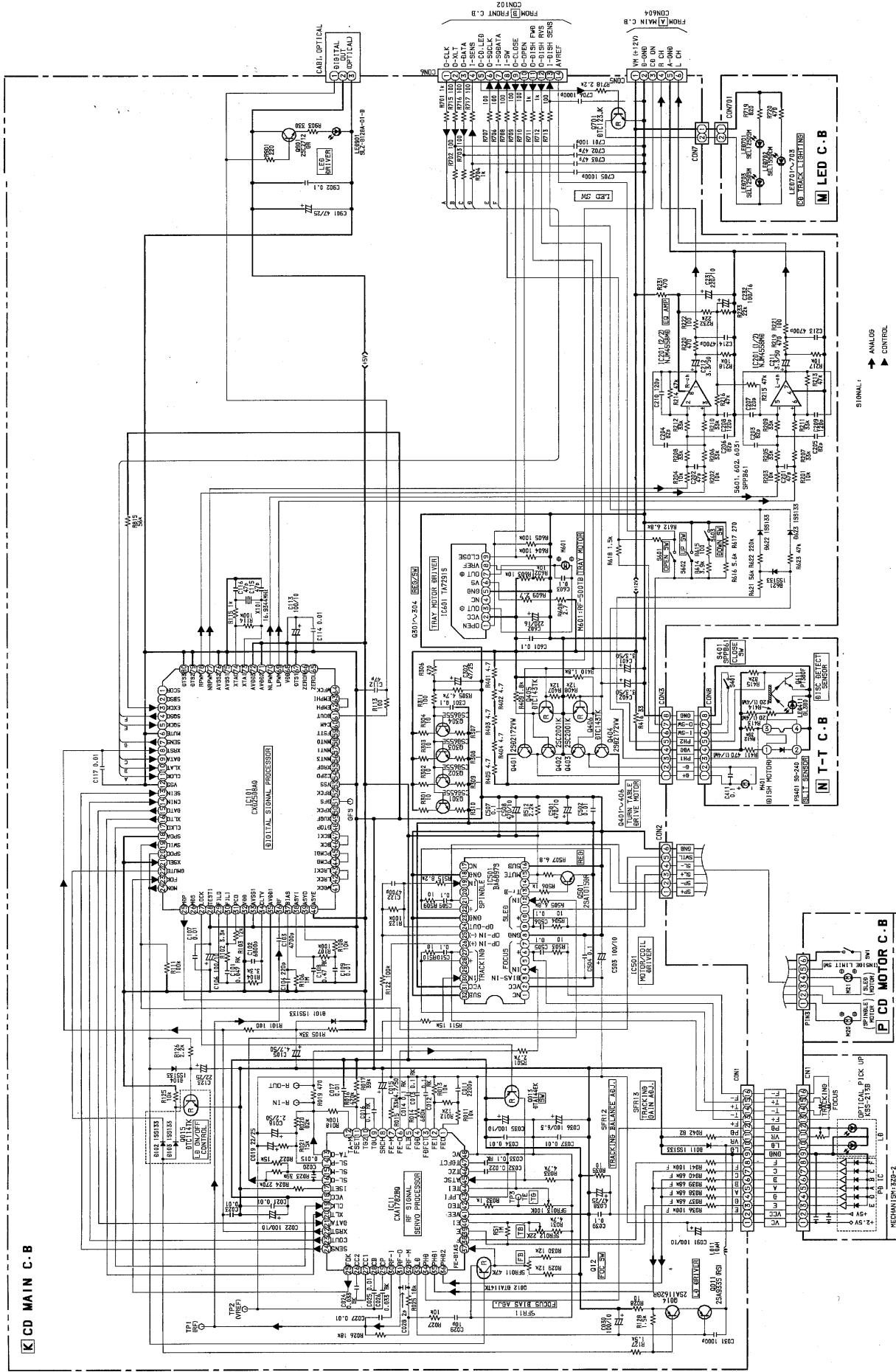
IC, BU1921FS



WIRING - 4 (CD)



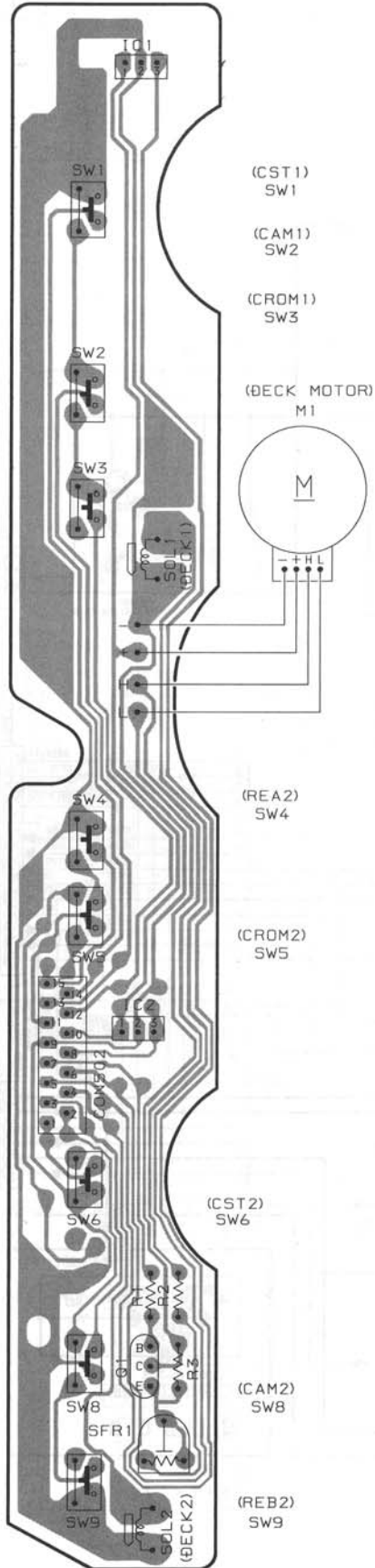
SCHEMATIC DIAGRAM - 4 (CD)



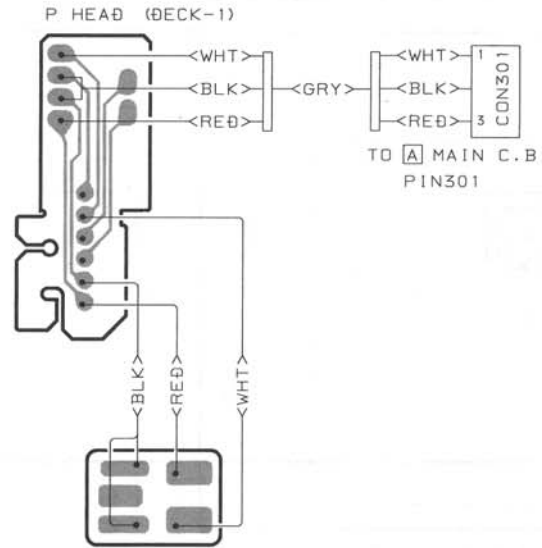
WIRING - 5 (DECK)

FROM [E] FRONT C.B.
CON501

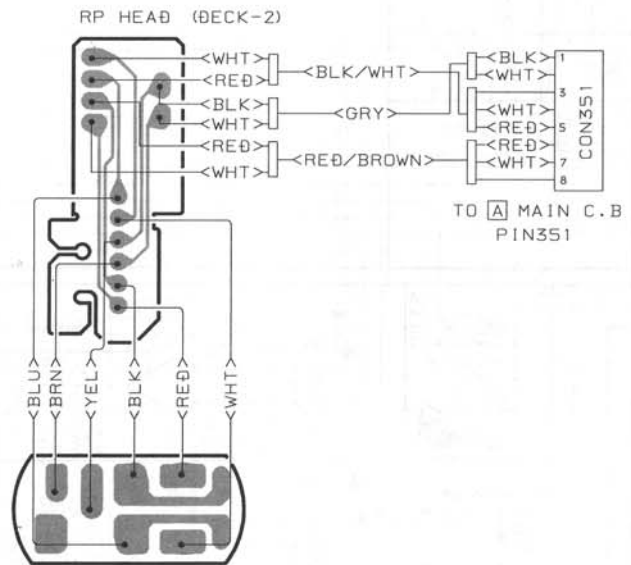
J DECK C.B.

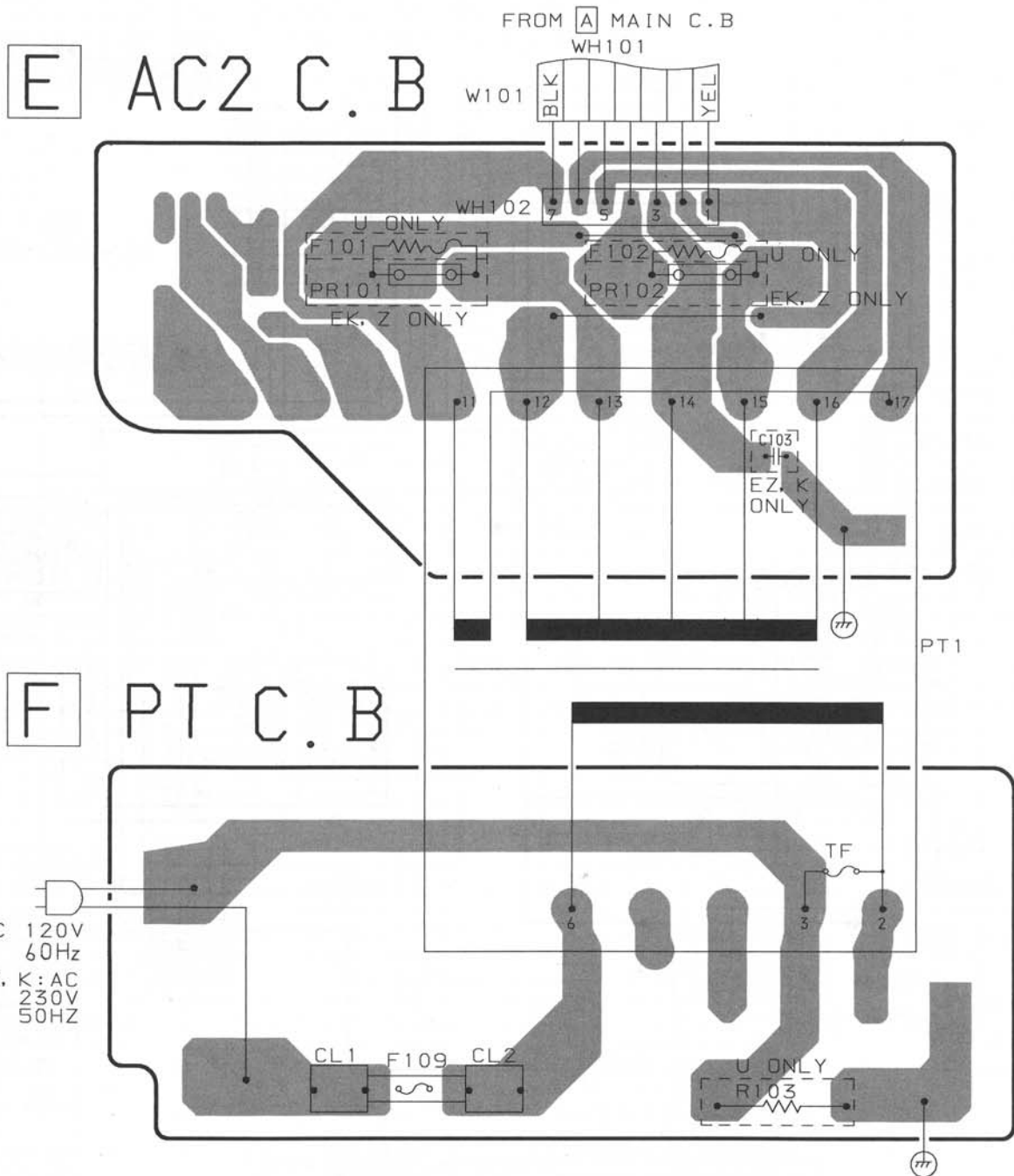


H HEAD-1 C.B.



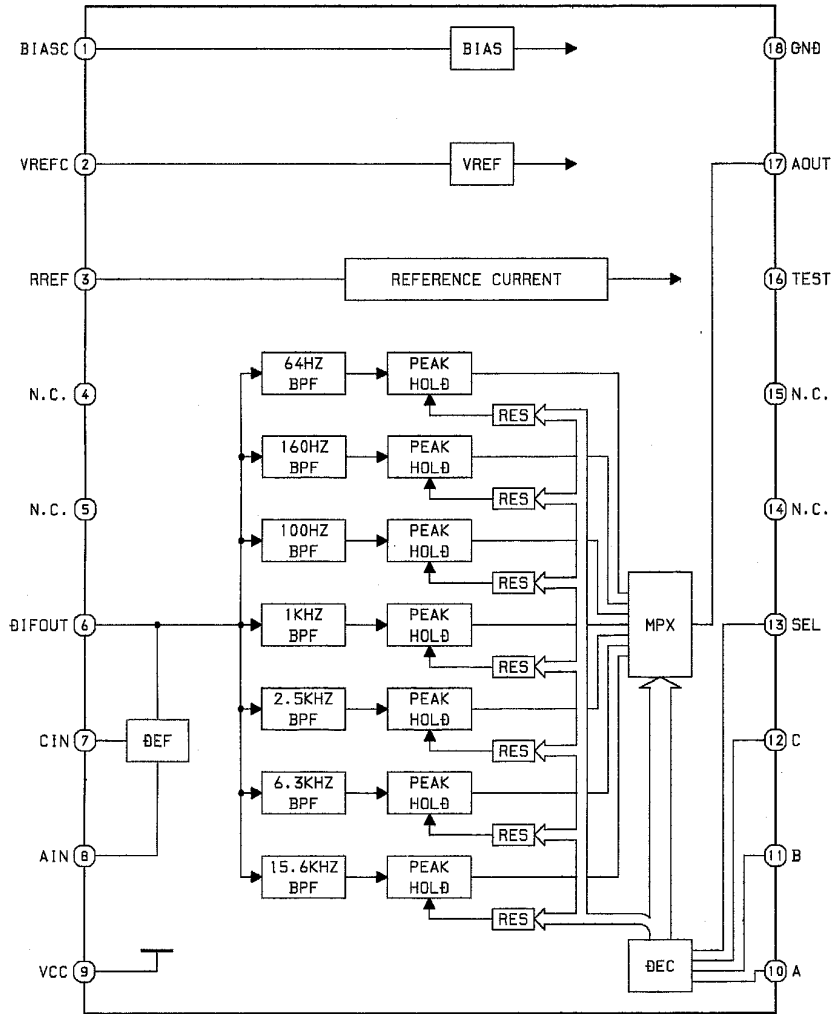
I HEAD-2 C.B.



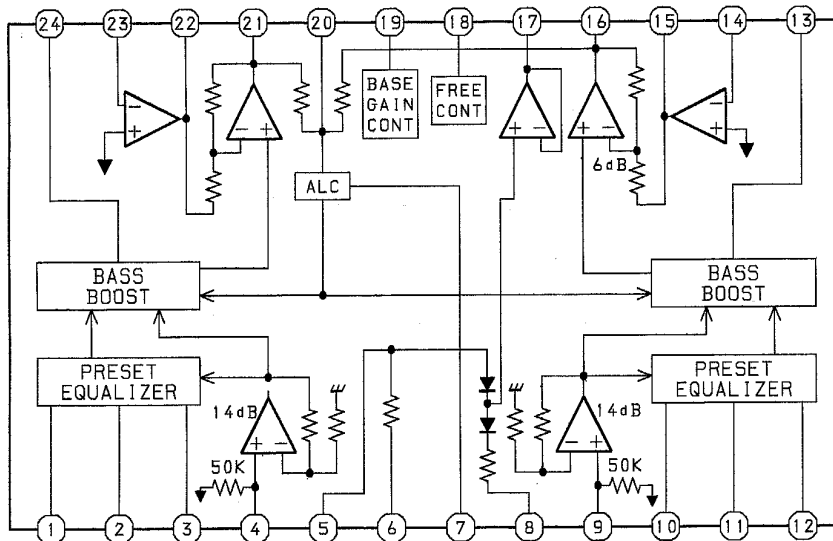


IC BLOCK DIAGRAM - 2

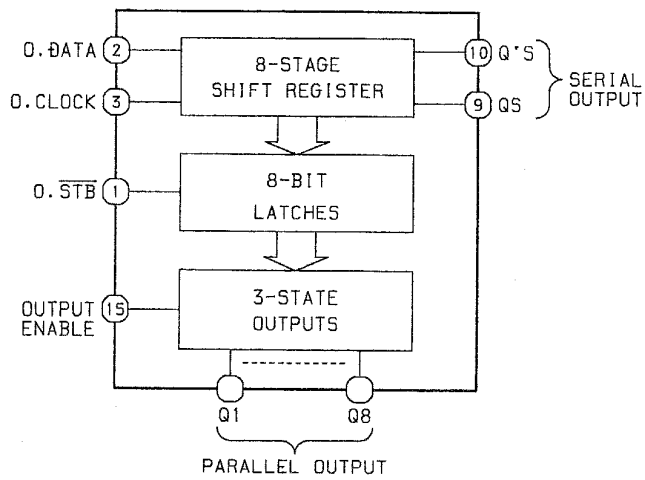
IC, BA3834S



IC, BA3842F



IC, BU4094BCF
 IC, BU4094BC

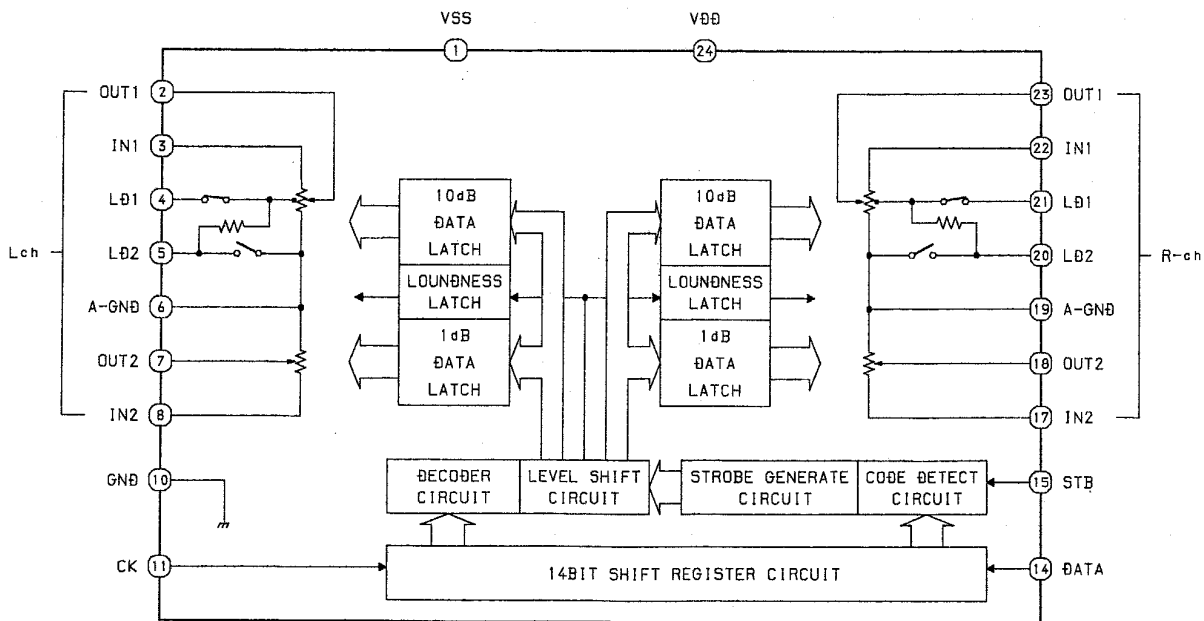


TRUTH TABLE

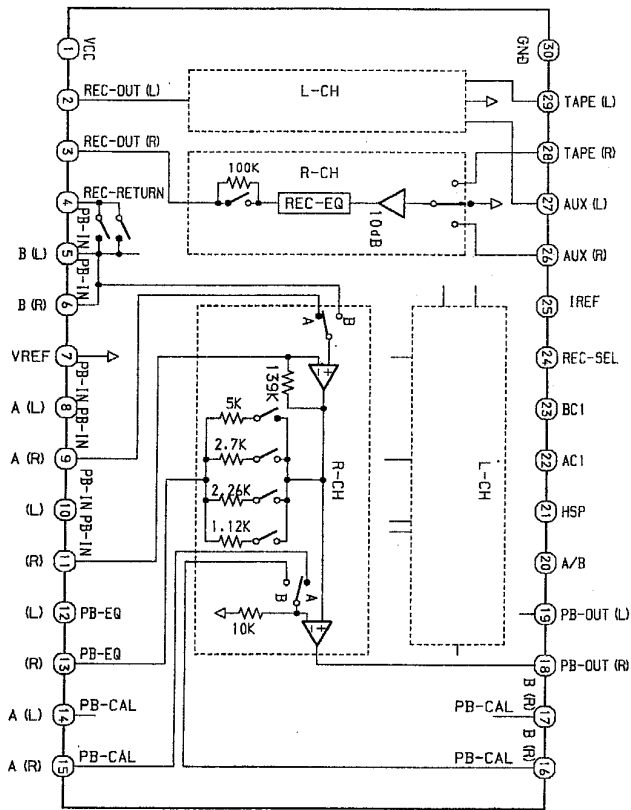
CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	Q5	Q's
\downarrow	L	x	x	Z	Z	Q7	NO CHG.
\uparrow	L	x	x	Z	Z	NO CHG.	Q5
\downarrow	H	L	x	NO CHG.	NO CHG.	Q7	NO CHG.
\downarrow	H	H	L	L	Qn-1	Q7	NO CHG.
\downarrow	H	H	H	H	Qn-1	Q7	NO CHG.
\uparrow	H	x	x	NO CHG.	NO CHG.	NO CHG.	Q5

Z = HIGH IMPEDANCE
 x = DON'T CARE

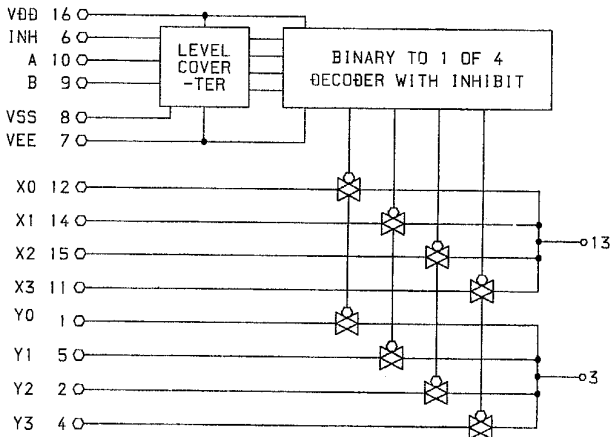
IC, TC9212F



IC, HA12185NT

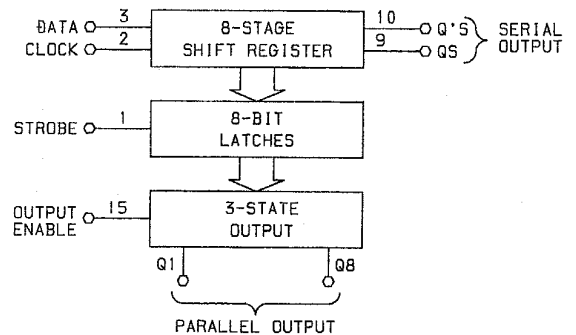


IC, BU4052BCF

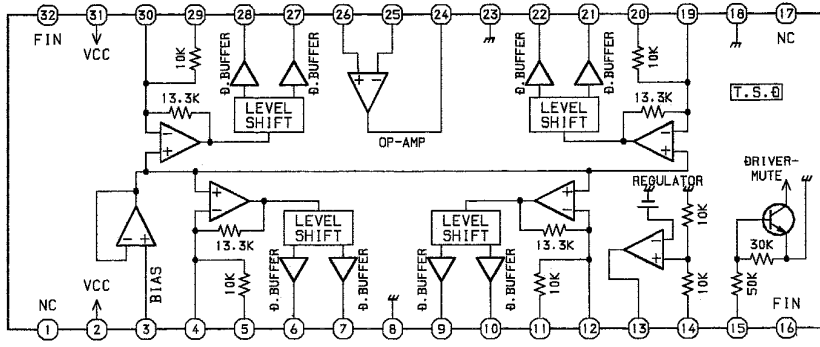


TRUTH TABLE

INHIBIT	A	B	ON SWITCH
L	L	L	X0 Y0
L	H	L	X1 Y1
L	L	H	X2 Y2
L	H	H	X3 Y3
H	X	X	NONE

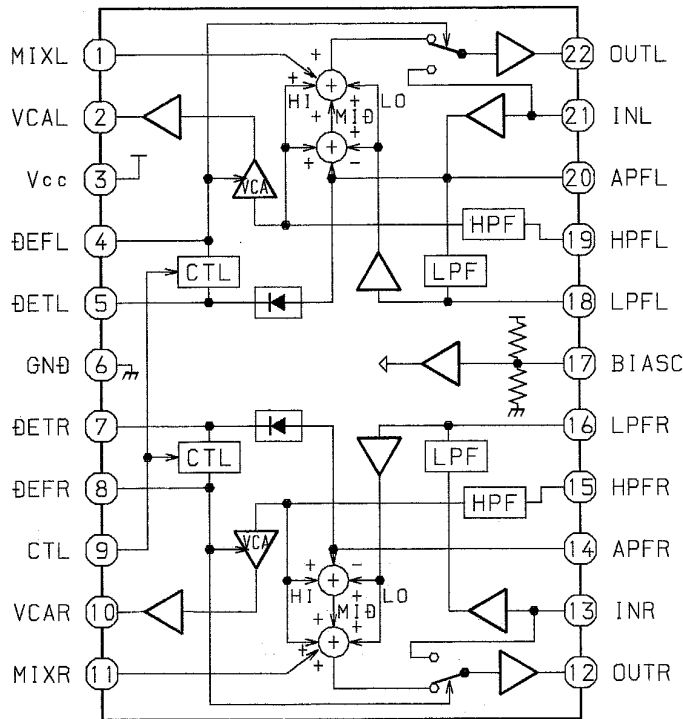


IC, BA6897S

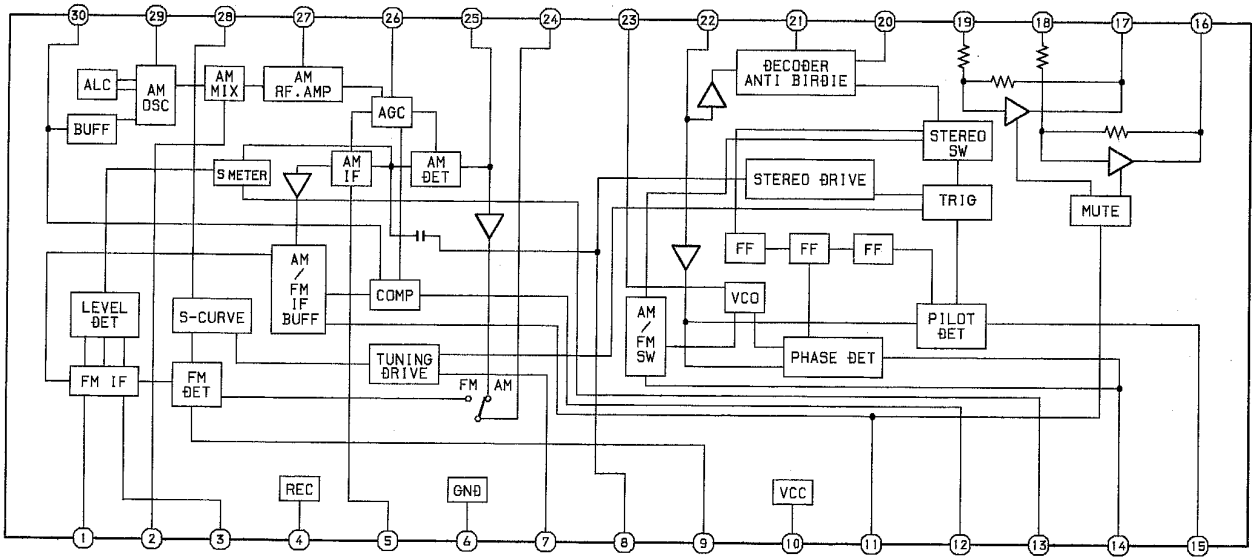


T.S.θ: THERMAL SHUT DOWN CIRCUIT
 θ.BUFFER: DRIVE BUFFER

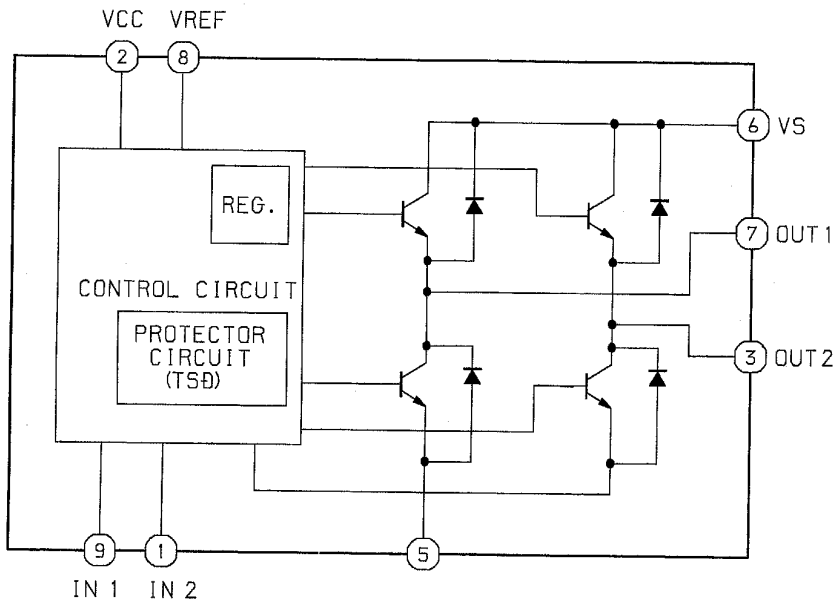
IC, BA3880S



IC, LA1836



IC, TA7291



INPUT		OUTPUT		MODE
IN1	IN2	OUT1	OUT2	
0	0	∞	∞	STOP
1	0	H	L	CW
0	1	L	H	CCW
1	1	L	L	BRAKE

∞ : HI IMPEDANCE
 NOTE : INPUT "H" ACTIVE

IC DESCRIPTION

IC, CXA1782BQ

Pin No.	Pin Name	I/O	Description
1	FEO	O	Focus error amplifier output pin. This pin is connected to the FZC comparator input internally.
2	FEI	I	Focus error input pin.
3	FDFACT	I	Capacitor connection pin for time constant used when there is defect.
4	FGD	I	Corrects the focus servo high frequency gain.
5	FLB	I	This is a pin where the time constant is externally connected to raise the low frequency gain of the focus servo.
6	FEO	O	Focus drive output.
7	FEM	I	Focus amplifier inverted input pin.
8	SRCH	I	This is a pin where the time constant is externally connected to generate the focus search waveform.
9	TGU	I	This is a pin where the selection time constant is externally connected to set the tracking servo the high frequency gain.
10	TG2	I	This is a pin where the selection time constant is externally connected to set the tracking high frequency gain.
11	FSET	I	Pin for setting peak of the phase compensator of the focus tracking.
12	TAM	I	Tracking amplifier inverted input pin.
13	TAO	O	Tracking drive output.
14	SLP	I	Sled amplifier non-inverted input pin.
15	SLM	I	Sled amplifier inverted input pin.
16	SLO	O	Sled drive output.
17	ISSET	I	The current which determines height of the focus search, track jump and sled kick is input.
18	VCC	-	+5V power supply pin.
19	CLK	I	Serial data transfer clock input from CPU (CXD2518Q).
20	XLT	I	Latch input from CPU (CXD2518Q).
21	DATA	I	Serial data input from CPU (CXD2518Q).
22	XRST	I	Reset input pin. Reset at L.
23	COUT	O	Signal output to count the number of tracks.
24	SENS	O	FZC, DFCT, TZC, Gain or BAL is output depending on the command to CPU (CXD2518Q).
25	FOK	O	Output pin of the focus OK comparator.
26	CC2	O	Input pin where the DEFECT bottom hold output is capacitance coupled.
27	CC1	I	DEFECT bottom hold output pin.
28	CB	I	This is a pin where the DEFECT bottom hold capacitor is connected.
29	CP	I	This is a pin where the MIRR hold capacitor is connected and MIRR comparator non-inverted signal is input.
30	RFI	I	Input pin where the RF summing amplifier output is capacitance coupled.
31	RFO	O	RF summing amplifier output pin. (TP1)
32	RFM	I	RF summing amplifier inverted input pin. Gain of RF amplifier is determined by the resistor connected between RFO and this pin.

Pin No.	Pin Name	I/O	Description
33	LD	O	APC amplifier output pin.
34	PHD	I	APC amplifier input pin.
35~36	PHD1~2	I	RF I-V amplifier inverted input pin. These pins are connected to the A+C and B+D pins of the optical pickup.
37	BIAS	I	Bias adjustment pin of the non-inverted side of the focus error amplifier.
38~39	F-E	I	F and E IV amplifier non-inverted input pins. These pins are connected to the F and E of the optical pickup.
40	EI	-	Gain adjustment pin of the I-V amplifier E.
41	VEE	-	GND connection pin.
42	TEO	O	Tracking error amplifier output pin.
43	LPFI	I	BAL adjustment comparator input pin.
44	TEI	I	Tracking error input pin.
45	ATSC	I	Window comparator input pin for detecting ATSC.
46	TZC	I	Tracking zero-cross comparator input pin.
47	TDFCT	I	Capacitor connection pin for the time constant used when there is defect.
48	VC	O	DC voltage output pin of VREF. (VDD/2)

IC, CDX2508AQ

Pin No.	Pin Name	I/O	Description
1	SCOR	O	Outputs a high signal when either subcode sync S0 or S1 is detected.
2	SBSO	O	Sub P to W serial output.
3	EXCK	I	SBSO readout clock input.
4	SQSO	O	Sub Q 80-bit serial output.
5	SQCK	I	SQSO readout clock input.
6	MUTE	I	High: mute; low: release.
7	SENS	O	SENS output to CPU.
8	XRST	I	System reset. Reset when low.
9	DATA	I	Serial data input from CPU.
10	XLAT	I	Latch input from CPU. Serial data is latched at the falling edge.
11	CLOK	I	Serial data transfer clock input from CPU.
12	VSS	-	GND.
13	SEIN	I	Sense input from SSP.
14	CNIN	I	Track jump count signal input.
15	DATO	O	Serial data output to SSP.
16	XLTO	O	Serial data latch output to SSP. Latched at the falling edge.
17	CLKO	O	Serial data transfer clock output to SSP.
18	SPOA	I	Microcomputer extended interface (input A).
19	SPOB	I	Microcomputer extended interface (input B).
20	SPOC	I	Microcomputer extended interface (input C).
21	XTSL	I	Crystal selection input. Low for 16.9344MHz; high for 33.8688MHz.
22	XLON	O	Microcomputer extended interface (output).
23	FOK	I	Focus OK input. Used for SENS output and the servo auto sequencer.

Pin No.	Pin Name	I/O	Description
24	MON	O	Spindle motor on/off control output.
25	MDP	O	Spindle motor servo control.
26	MDS	O	Spindle motor servo control.
27	LOCK	O	GFS is sampled at 460Hz; when GFS is high, this pin outputs a high signal. If GFS is low eight consecutive samples, this pin outputs low.
28	TEST	I	TEST pin. Normally GND.
29	FILO	O	Master PLL (slave=digital PLL) filter output.
30	FILI	I	Master PLL filter input.
31	PCO	O	Master PLL charge pump output.
32	VDD	-	Digital power supply for DSP.
33	AVSS1	-	Analog GND for DSP.
34	CLTV	I	Master PLL VCO control voltage input.
35	AVDD1	-	Analog power supply for DSP.
36	RF	I	EFM signal input.
37	BIAS	I	Constant current input of asymmetry compensation circuit.
38	ASYI	I	Comparator voltage input of asymmetry compensation circuit.
39	ASYO	O	EFM full-swing output (low=VSS, high=VDD).
40	ASYE	I	Low: asymmetry compensation off; high: asymmetry compensation on.
41	WDCK	O	D/A interface for 48-bit slot. Word clock (2Fs).
42	LRCK	O	D/A interface for 48-bit slot. LR clock (Fs).
43	LRCKI	I	LR clock input for DAC. (48-bit slot)
44	PCMD	O	D/A interface. Serial data (two's complement, MSB first).
45	PCMDI	I	Audio data input for DAC. (48-bit slot)
46	BCK	O	D/A interface. Bit clock.
47	BCKI	I	Bit clock input for DAC. (48-bit slot)
48	GTOP	O	CTOP output.
49	XUGF	O	XUGF output.
50	XPCK	O	XPLCK output.
51	GFS	O	GFS output.
52	RFCK	O	RFCK output.
53	VSS	-	GND.
54	C2PO	O	C2PO output.
55	XROF	O	ARAOF output.
56	MNT3	O	MNT3 output.
57	MNT1	O	MNT1 output.
58	MNT0	O	MNT0 output.
59	FSTT	O	2/3 frequency-divider output for Pins 73 and 74.
60	C4M	O	4.2336MHz output.
61	DOUT	O	Digital Out output.
62	EMPH	O	Outputs high signal when the playback disc has emphasis, low signal when no emphasis.
63	EMPHI	I	DAC de-emphasis on/off. High: on; low: off.

Pin No.	Pin Name	I/O	Description
64	WFCK	O	WFCK (write frame clock) output.
65	ZEROL	O	No-sound data detection output; high when no sound data is detected. (Left channel)
66	ZEROR	O	No-sound data detection output; high when no sound data is detected. (Right channel)
67	DTS1	I	Test pin 1 for DAC; normally low.
68	VDD	-	Digital power supply for DAC.
69	NLPWM	O	Left channel PWM output. (Reverse phase)
70	LPWM	O	Left channel PWM output. (Forward phase)
71	AVDD2	-	Power supply for left channel PWM driver.
72	AVDD3	-	Power supply for crystal.
73	XTAI	I	33.8688MHz crystal oscillation circuit input.
74	XTAO	O	33.8688MHz crystal oscillation circuit output.
75	AVSS3	-	GND for crystal.
76	AVSS2	-	GND for PWM driver.
77	NRPWM	O	Right channel PWM output. (Reverse phase)
78	RPWM	O	Right channel PWM output. (Forward phase)
79	DTS2	I	DAC test pin 2; normally low.
80	DTS3	I	DAC test pin 3; normally low.

IC, LC72131

Pin No.	Pin Name	I/O	Description																								
1	XIN	I/O	A crystal oscillator (7.2MHz) is connected between these pins.																								
22	XOUT																										
2	NC	-	Not used.																								
3	CE	I	To enable the IC. Active "H".																								
4	DI	I	Digital data input from CPU (LC866540V-5C34)<U>,(LC866548V-5D57)<EZ,K> when relevant key is operated. Active "H".																								
5	CLK	I	To clock in the data DI.																								
6	DO	O	Digital data output to CPU (LC866540V-5C34)<U>,(LC866548V-5D57)<EZ,K>.																								
7	TM-BASE	O	Outputs a reference clock signal (8Hz) for the clock.																								
8	MONO / BEAT	O	Outputs "H" when MONO / BEAT is switched.																								
9	FM / AM	O	Output "L" or "H" as follows: <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">2 BAND</th> <th colspan="3">3 BAND</th> <th colspan="3">3 BAND</th> </tr> <tr> <th>AM</th> <th>FM</th> <th>LW</th> <th>MW</th> <th>FM</th> <th>MW</th> <th>SW</th> <th>FM</th> </tr> </thead> <tbody> <tr> <td>H</td> <td>L</td> <td>H</td> <td>H</td> <td>L</td> <td>H</td> <td>L</td> <td>L</td> </tr> </tbody> </table>	2 BAND		3 BAND			3 BAND			AM	FM	LW	MW	FM	MW	SW	FM	H	L	H	H	L	H	L	L
2 BAND		3 BAND			3 BAND																						
AM	FM	LW	MW	FM	MW	SW	FM																				
H	L	H	H	L	H	L	L																				
10	MW	O	Outputs "L" or "H" as follows: <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th colspan="2">2 BAND</th> <th colspan="3">3 BAND</th> <th colspan="3">3 BAND</th> </tr> <tr> <th>AM</th> <th>FM</th> <th>LW</th> <th>MW</th> <th>FM</th> <th>MW</th> <th>SW</th> <th>FM</th> </tr> </thead> <tbody> <tr> <td>L</td> <td>L</td> <td>H</td> <td>L</td> <td>L</td> <td>L</td> <td>H</td> <td>L</td> </tr> </tbody> </table>	2 BAND		3 BAND			3 BAND			AM	FM	LW	MW	FM	MW	SW	FM	L	L	H	L	L	L	H	L
2 BAND		3 BAND			3 BAND																						
AM	FM	LW	MW	FM	MW	SW	FM																				
L	L	H	L	L	L	H	L																				
11	IF-MUTE	O	To control internal counter.																								
12	IFIN	I	General purpose counter input.																								

Pin No.	Pin Name	I/O	Description
13	TUNE	I	Receives "L" when station is tuned.
14	NC	-	Not used.
15	A MIN	I	Receives the AM local oscillator frequency signal.
16	F MIN	I	Receives the FM local oscillator frequency signal.
17	VDD	-	Supply power to IC (+5V).
18	PD	O	PLL charge pump output.
19	AIN	I	The MOS transistor for PLL active low pass filter.
20	AOUT	O	
21	VSS	-	Ground.

IC, LC866540V-5C34 <U ONLY>

Pin No.	Pin Name	I/O	Description
1	O-CD/SQCLK	O	CD IC control output.
2	O-MUTE	O	System mute ON/OFF.
3	O-PLL/CE	O	PLL IC chip enable output.
4	O-DSP/CE	O	DSP IC chip enable output.
5	O-M/STB	O	Main shift register, data latch strobe output.
6	O-M/DATA	O	Main shift register, PLL, DSP, E-VOL related data output.
7	O-M/CLK	O	Main shift register, PLL, DSP, E-VOL related data transfer clock output.
8	O-VOL/STB	O	E-VOL data latch strobe output.
9	I-ENC/A	I	R-ENCORDER signal input.
10	I-ENC/B	I	R-ENCORDER signal input.
11	I-HP	I	Not used. (L : surround OFF)
12	RESET	I	Reset input.
13	I-STEREO	I	Stereo detected input.
14	I-TUNE/IFC	I	Tuner SD detection input / IF count serial data input.
15	VSS1	-	GND.
16,17	CF1,CF2	I/O	5.76MHz μ -con clock oscillator.
18	VDD1	-	Power supply input.
19~21	I-KEY1~3	I	Key 1~3 A/D input.
22	I-CD/SW	I	CD mechanism switch A/D input.
23	I-CD/DISH	I	CD turntable photosensor A/D input
24	I-MS	I	Deck MS detection A/D input.
25	I-SPEANA	I	Spectrum analyzer level A/D input.
26	I-MIC	I	Mic level A/D input for auto vacal fader.
27	I-TM/BASE	I	Reference clock input for system clock.
28	I-HOLD	I	Power failure detect input.
29	I-RMC	I	System remote control input. (active low)
30~37	10G~3G	O	FL grid output 10G~3G.
38~41	P40~P37	O	FL segment output P40~P37.
42,43	2G,1G	O	FL grid output 2G~1G.
44,45	P36,P35	O	FL segment output P36~P35.

Pin No.	Pin Name	I/O	Description
46	VDD3	-	Power supply input.
47~50	P34~P31	O	FL segment output P34~P31.
51	VP	-	Power supply input for FL display.
52~60	P30~P22	O	FL segment output P30~P22.
61	P21/SPEANA A	I/O	FL segment output P21 / spectrum analyzer band select output A.
62	P20/SPEANA B	I/O	FL segment output P20 / spectrum analyzer band select output B.
63	P19/SPEANA C	I/O	FL segment output P19 / spectrum analyzer band select output C.
64	P18/ $\overline{\text{CST1}}$	I/O	FL segment output P18 / DECK1 cassette sensed switch input.
65	P17/ $\overline{\text{AUTO1}}$	I/O	FL segment output P17 / DECK1 auto stop input.
66	P16/ $\overline{\text{CAM1}}$	I/O	FL segment output P16 / DECK1 cam switch input.
67	P15/ $\overline{\text{CAM2}}$	I/O	FL segment output P15 / DECK2 cam switch input.
68	P14/ $\overline{\text{AUTO2}}$	I/O	FL segment output P14 / DECK2 auto stop input.
69	P13/ $\overline{\text{CST2}}$	I/O	FL segment output P13 / DECK2 cassette sensed switch input.
70	P12/ $\overline{\text{REA}}$	I/O	FL segment output P12 / DECK2 side-A record OK switch input.
71	P11/ $\overline{\text{REB}}$	I/O	FL segment output P11 / DECK2 side-B record OK switch input.
72	VDD4	-	Power supply input.
73	P10/NO-ECHO	I/O	FL segment output P10.
74	P9/AMST,FMW	I/O	FL segment output P9.
75	P8/AM10K	I/O	FL segment output P8.
76	P7/LW	I/O	FL segment output P7.
77	P6/SW	I/O	FL segment output P6.
78	P5/PRO	I/O	FL segment output P5.
79	P4/NO-DSP	I/O	FL segment output P4.
80	P3/K-CON	I/O	FL segment output P3.
81	P2/PAL	I/O	FL segment output P2.
82	P1/OIRT	I/O	FL segment output P1.
83	O- $\overline{\text{CLOSE}}$	O	CD tray close output.
84	O- $\overline{\text{OPEN}}$	O	CD tray open output.
85	O- $\overline{\text{DI/R}}$	O	CD turntable reverse rotation output.
86	O- $\overline{\text{DI/F}}$	O	CD turntable forward rotation output.
87	O- $\overline{\text{POWER}}$	O	System power $\overline{\text{ON/OFF}}$ output.
88	O- $\overline{\text{SOL1}}$	O	DECK1 plunger $\overline{\text{ON/OFF}}$ output.
89	VSS2	-	GND terminal.
90	VDD2	-	Power supply input.
91	O- $\overline{\text{SOL2}}$	O	DECK2 plunger $\overline{\text{ON/OFF}}$ output.
92	O-F/STB	O	Front shift register data latch strobe output.
93	O-F/DATA	O	Front shift register data output.
94	O-F/CLK	O	Front shift register data transfer clock output.
95	O- $\overline{\text{KEYSCAN}}$	O	Scan output for digital input.
96	O-CD/DATA	O	CD IC control output.
97	O-CD/XLT		
98	O-CD/CLK		

Pin No.	Pin Name	I/O	Description
99	O-CD/SENSE	O	CD control input.
100	O-CD/SQDATA	O	CD IC control output.

IC, LC866548V-5D57 <EZ,K ONLY>

Pin No.	Pin Name	I/O	Description
1	I-RD DATA	O	RDS data input (TUNER).
2	O-MUTE	O	System mute ON/OFF.
3	O-PLL/CE	O	PLL IC chip enable output.
4	O-DSP/CE	O	DSP IC chip enable output.
5	O-M/STB	O	Main shift register, data latch strobe output.
6	O-M/DATA	O	Main shift register, PLL, DSP, E-VOL related data output.
7	O-M/CLK	O	Main shift register, PLL, DSP, E-VOL related data transfer clock output.
8	O-VOL/STB	O	E-VOL data latch strobe output.
9	I-ENC/A	I	R-ENCORDER signal input.
10	I-ENC/B	I	R-ENCORDER signal input.
11	I-RD CLK	I	RDS clock input (TUNER).
12	$\overline{\text{RESET}}$	I	Reset input.
13	$\overline{\text{I-STEREO}}$	I	Stereo detected input.
14	$\overline{\text{I-TUNE/IFC}}$	I	Tuner SD detection input / IF count serial data input.
15	VSS1	-	GND.
16,17	CF1,CF2	I/O	5.76MHz μ -con clock oscillator.
18	VDD1	-	Power supply input.
19~21	I-KEY1~3	I	Key 1~3 A/D input.
22	I-CD/SW	I	CD mechanism switch A/D input.
23	I-CD/DISH	I	CD turntable photosensor A/D input
24	I-RDS SIG	I	RDS Signal input (TUNER).
25	I-SPEANA	I	Spectrum analyzer level A/D input.
26	I-MIC	I	Mic level A/D input for auto vacal fader.
27	I-TM/BASE	I	Reference clock input for system clock.
28	$\overline{\text{I-HOLD}}$	I	Power failure detect input.
29	$\overline{\text{I-RMC}}$	I	System remote control input. (active low)
30~37	10G~3G	O	FL grid output 10G~3G.
38~41	P40~P37	O	FL segment output P40~P37.
42,43	2G,1G	O	FL grid output 2G~1G.
44,45	P36,P35	O	FL segment output P36~P35.
46	VDD3	-	Power supply input.
47~50	P34~P31	O	FL segment output P34~P31.
51	VP	-	Power supply input for FL display.
52~60	P30~P22	O	FL segment output P30~P22.
61	P21/SPEANA A	I/O	FL segment output P21 / spectrum analyzer band select output A.
62	P20/SPEANA B	I/O	FL segment output P20 / spectrum analyzer band select output B.
63	P19/SPEANA C	I/O	FL segment output P19 / spectrum analyzer band select output C.

Pin No.	Pin Name	I/O	Description
64	P18/CST1	I/O	FL segment output P18 / DECK1 cassette sensed switch input.
65	P17/AUTO1	I/O	FL segment output P17 / DECK1 auto stop input.
66	P16/CAM1	I/O	FL segment output P16 / DECK1 cam switch input.
67	P15/CAM2	I/O	FL segment output P15 / DECK2 cam switch input.
68	P14/AUTO2	I/O	FL segment output P14 / DECK2 auto stop input.
69	P13/CST2	I/O	FL segment output P13 / DECK2 cassette sensed switch input.
70	P12/REA	I/O	FL segment output P12 / DECK2 side-A record OK switch input.
71	P11/REB	I/O	FL segment output P11 / DECK2 side-B record OK switch input.
72	VDD4	-	Power supply input.
73	P10/NO-ECHO	I/O	FL segment output P10.
74	P9/AMST,FMW	I/O	FL segment output P9.
75	P8/AM10K	I/O	FL segment output P8.
76	P7/LW	I/O	FL segment output P7.
77	P6/SW	I/O	FL segment output P6.
78	P5/PRO	I/O	FL segment output P5.
79	P4/NO-DSP	I/O	FL segment output P4.
80	P3/K-CON	I/O	FL segment output P3.
81	P2/PAL	I/O	FL segment output P2.
82	P1/OIRT	I/O	FL segment output P1.
83	O-CLOSE	O	CD tray close output.
84	O-OPEN	O	CD tray open output.
85	O-DI/R	O	CD turntable reverse rotation output.
86	O-DI/F	O	CD turntable forward rotation output.
87	O-POWER	O	System power ON/OFF output.
88	O-SOL1	O	DECK1 plunger ON/OFF output.
89	VSS2	-	GND terminal.
90	VDD2	-	Power supply input.
91	O-SOL2	O	DECK2 plunger ON/OFF output.
92	O-F/STB	O	Front shift register data latch strobe output.
93	O-F/DATA	O	Front shift register data output.
94	O-F/CLK	O	Front shift register data transfer clock output.
95	O-KEYSCAN	O	Scan output for digital input.
96	O-CD/DATA		CD IC control output.
97	O-CD/XLT	O	
98	O-CD/CLK		
99	O-CD/SENSE	O	CD control input.
100	O-CD/SQDATA	O	CD IC control output.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity : 3dB ± 6dB
 [at 87.5 / 98.0MHz]<U>
 (THD 3%) 6dB ± 6dB
 [at 108.0MHz]<U>
 8dB +6/-10dB
 [at 87.5 / 98.0MHz]<EZ,K>
 10dB +6/-10dB
 [at 108.0MHz]<EZ,K>

S/N 50dB Quieting sensitivity :
 Less than 28dB<U>
 [at 87.5 / 98.0 / 108.0MHz]<U>
 Less than 39dB<EZ,K>
 [at 87.5 / 98.0 / 108.0MHz]<EZ,K>

Signal to noise ratio :
 MONO
 More than 60dB<EZ,K>
 [at 98.0MHz]
 More than 62dB<U>
 [at 98.0MHz]
 STEREO
 More than 64dB<U>
 [at 98.0MHz]

Distortion :
 MONO
 Less than 1.3%
 [at 98.0MHz]
 STEREO
 Less than 2.0%
 [at 98.0MHz]

Auto stop level : 30dB ± 10dB [at 98.0MHz]<EZ,K>
 20dB ± 10dB [at 98.0MHz]<U>

Stereo separation : More than 20dB [at 98.0MHz]<EZ,K>
 More than 25dB [at 98.0MHz]<U>

Intermediate frequency : 10.7MHz

<AM(MW) SECTION>

Sensitivity : 52 ~ 62dB
 (S/N 20 dB) [at 603kHz (EZ,K)]
 [at 600kHz (U)]
 48 ~ 58dB
 [at 999kHz (EZ,K)]
 [at 1000kHz (U)]
 48 ~ 58dB
 [at 1404kHz (EZ,K)]
 [at 1400kHz (U)]

Signal to noise ratio : More than 35dB
 [at 999kHz (EZ,K)]
 [at 1000kHz (U)]

Distortion : Less than 1.5%
 [at 999kHz (EZ,K)]
 [at 1000kHz (U)]

Auto stop level : 55dB +10 /-15 dB
 [at 999kHz (EZ,K)]
 [at 1000kHz (U)]

Intermediate frequency : 450kHz

<LW SECTION>(EZ,K)

Sensitivity: 59~69dB (144kHz)
 (S/N 20dB) 57~67dB (198kHz)
 55~65dB (290kHz)

Distortion: Less than 1.4% (198kHz)

Intermediate frequency: 450kHz

<DECK SECTION>

Tape speed : 3000Hz ± 45Hz

Wow & flutter : Less than 0.15%
 (W.R.M.S)

Take-up torque : 30 ~ 55g-cm
 (FWD, REV)

F.F & REW torque : 75 ~ 180g-cm

Back tension : 2 ~ 7g-cm
 (FWD, REV)

PB output level : 2.8V ± 2dB
 (SP OUT 2V)

REC/PB output level : 1.6V ± 2dB
 (SP OUT 2V)

Distortion (REC/PB) : Less than 2.0%
 (NORM, CrO₂)

Noise level (PB) : Less than 200mV/150mV
 (NORM, SP OUT 2V, DOLBY OFF/B ON)
 Less than 180mV/120mV
 (CrO₂, SP OUT 2V, DOLBY OFF/B ON)

Noise level (REC/PB) : Less than 200mV/150mV
 (NORM, SP OUT 2V, DOLBY OFF/B ON)
 Less than 190mV/130mV
 (CrO₂, SP OUT 2V, DOLBY OFF/B ON)

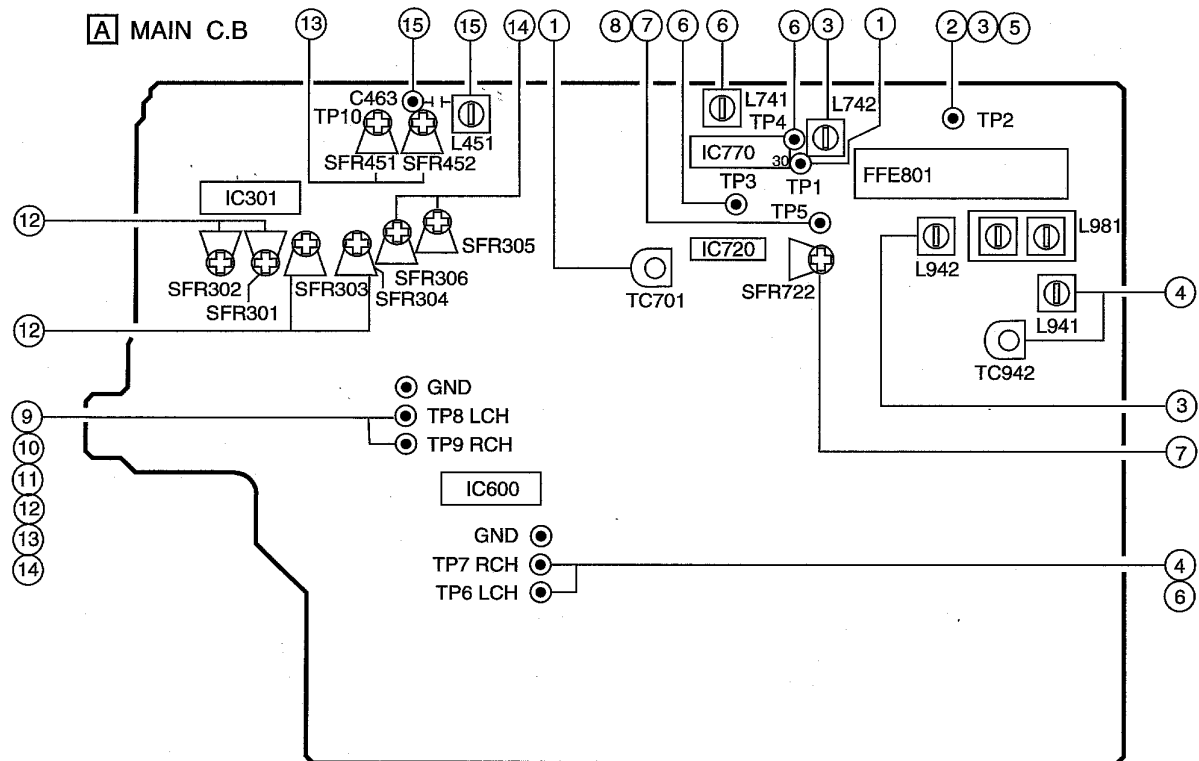
Crosstalk : More than 58dB
 (1kHz, 0VU)

Channel separation : More than 45dB
 (1kHz, 0VU)

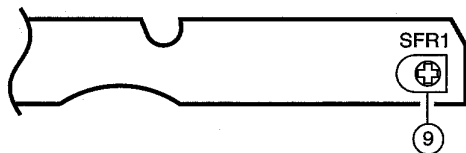
Erasing ratio : More than 60dB
 (at 125Hz, 10VU)

Test tape : TTA-602 (NORMAL)
 TTA-615 (CrO₂)

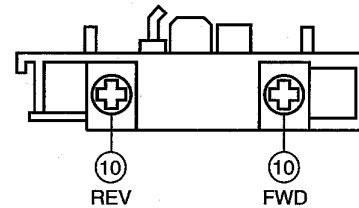
ADJUSTMENT - 1 <TUNER / DECK>



J DECK C.B.

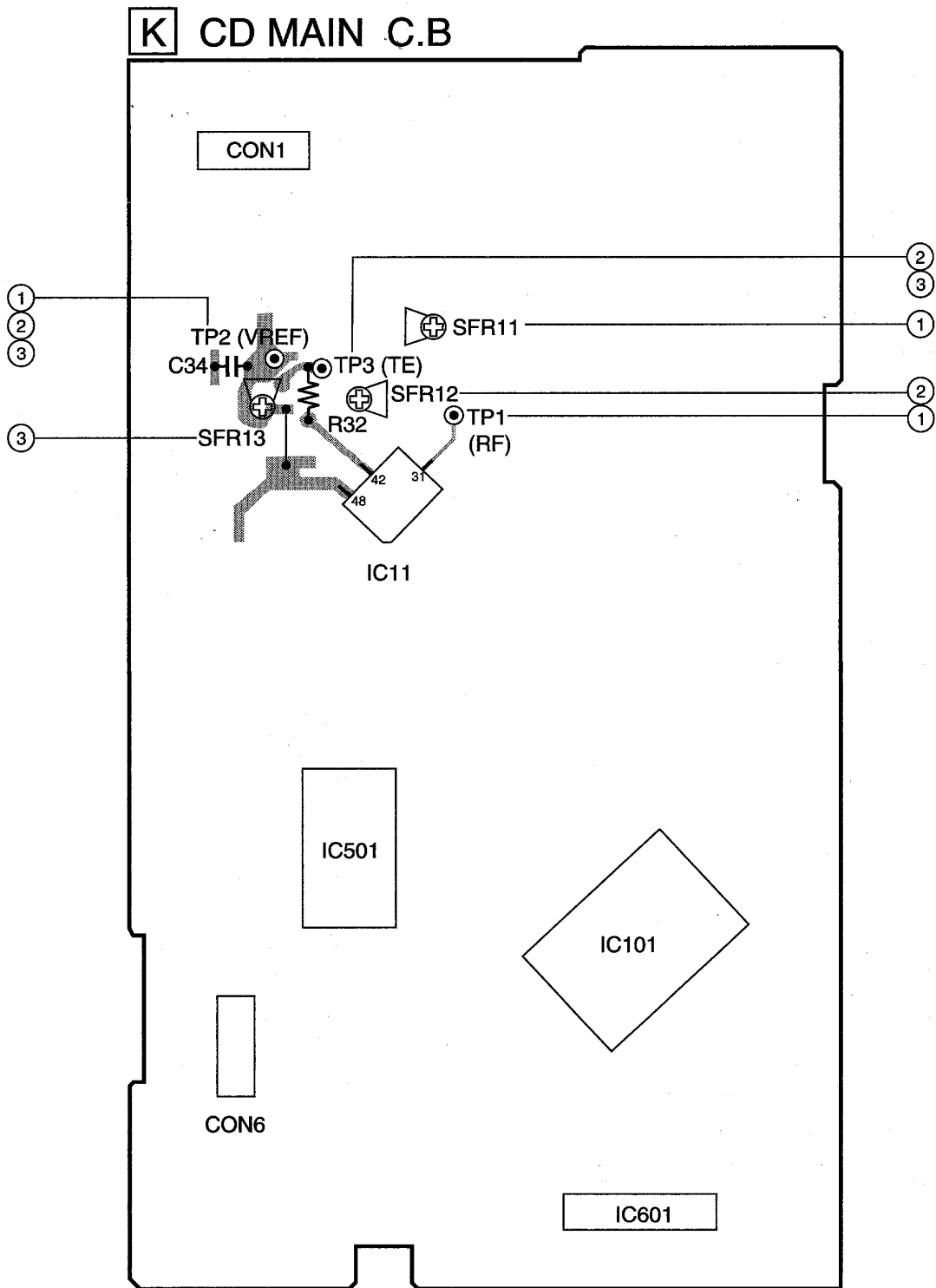


DECK-1 P, DECK-2 R / P / E HEAD



< TUNER SECTION >

1. Clock Frequency Adjustment
 - Settings : • Test point : TP1 (CLK IC770 pin30)
 - Adjustment location : TC701
 - Method : Set to MW 1710kHz (U), 1602kHz (EZ,K) and adjust TC701 so that the test point becomes 2160kHz \pm 0.01kHz (U), 2052 \pm 0.01kHz (EZ,K).
2. MW VT Check
 - Settings : • Test point : TP2 (VT)
 - Method : Set to MW 1710kHz (U), 1602kHz (EZ,K) and check that the test point is 7.0V \pm 1.0V (U), 6.8V \pm 1.0V (EZ,K).
3. LW VT Adjustment <EZ,K>
 - Settings : • Test point : TP2 (VT)
 - Adjustment location : L942
 - Method : Set to LW 144kHz and adjust L942 so that the test point becomes 1.3V \pm 0.05V.
4. LW Tracking Adjustment <EZ,K>
 - Settings : • Test point : TP6, TP7
 - Adjustment location :
 - L941 144kHz
 - TC942 290kHz
 - Method : Set up TC942 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.
5. FM VT Check
 - Settings : • Test point : TP2 (VT)
 - Method : Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 1.3V (87.5MHz) and less than 8.0V (108.0MHz).

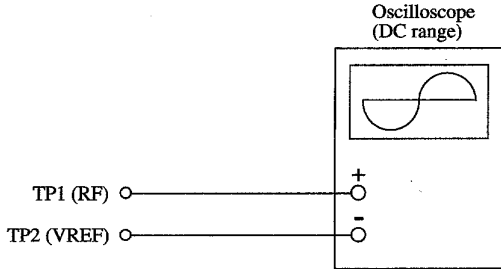


Note :

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

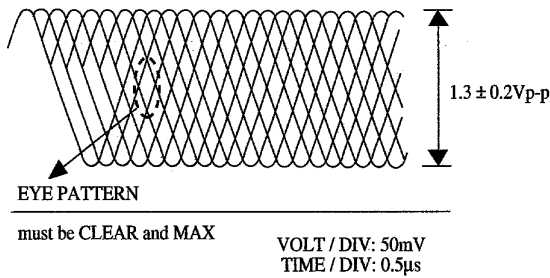
1. Focus Bias Adjustment

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

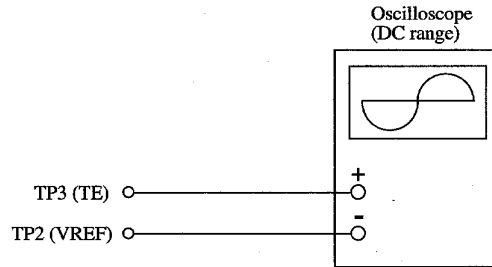


- 1) Connect an oscilloscope to the test points TP1 (RF) and TP2 (VREF).
- 2) Turn on the power switch.
- 3) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
- 4) Adjust SFR11 so that RF signal of the test point TP1 (RF) is MAX and CLEARREST.

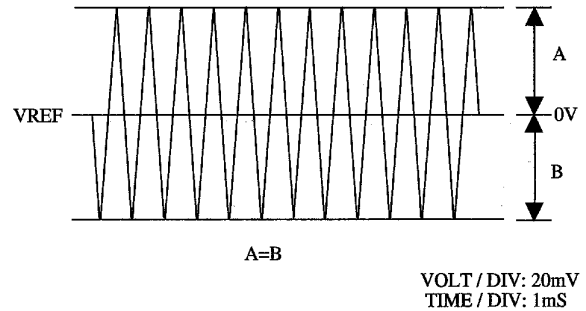
RF signal waveform



2. Tracking Balance Adjustment

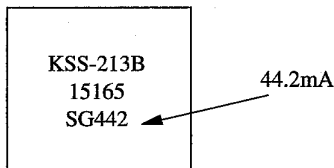


- 1) Connect an oscilloscope to the test points TP3 (TE) and TP2 (VREF).
- 2) Active the CD test mode.
- 3) Insert test disc TCD-782 (YEDS-18) and set the traverse mode (No.4) of CD test mode.
- 4) Adjust SFR12 so that the waveform on the oscilloscope is vertically symmetrical as shown in the figure 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.

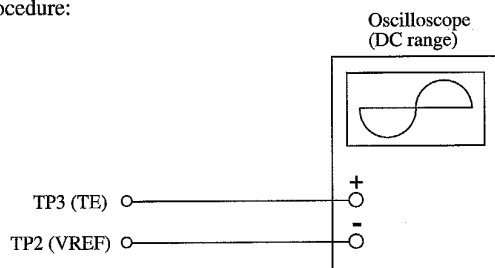
Symptoms \ Gain	(Focus)	Tracking
• The time until music starts becomes longer for STOP → ▶PLAY or automatic selection (◀▶ buttons pressed.) (Normally takes about 2 seconds.)	low	low or high
• Music does not start and disc continues to rotate for STOP → ▶PLAY or automatic selection (◀▶ buttons pressed.)	–	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.

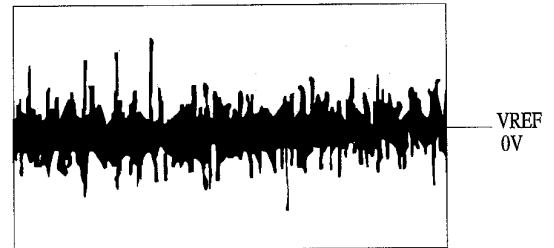
– Simple adjustment –

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:



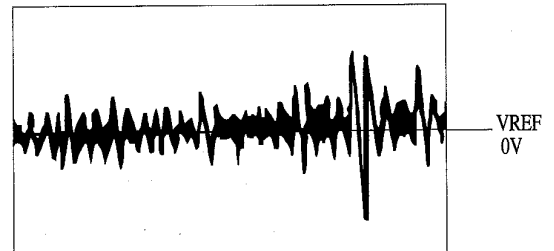
- 1) Keep the set horizontal. (If the set is not kept horizontally, this adjustment cannot be performed due to the gravity against the 2-axis device.)
- 2) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
- 3) Connect an oscilloscope to TP2 (VREF) and TP3(TE).
- 4) Adjust SFR13 so that the waveform appears as shown in the figure below. (tracking gain adjustment)



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

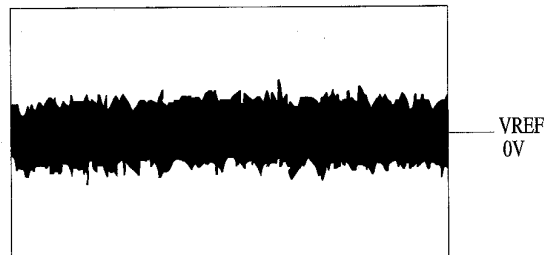
- Incorrect example

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

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	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

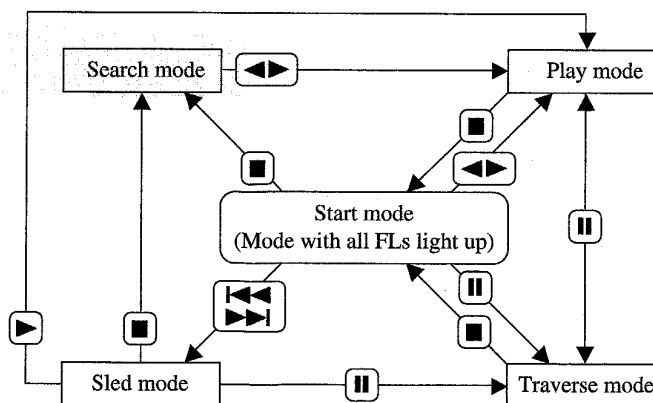
* NOTE 1: There are cases when the tracking servo cannot be locked owing to the protection circuit being operated when heat builds up in the driver IC if the focus search is operated continually for more than 10 minutes. In these cases, the power supply should be switched off for 10 minutes until heat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

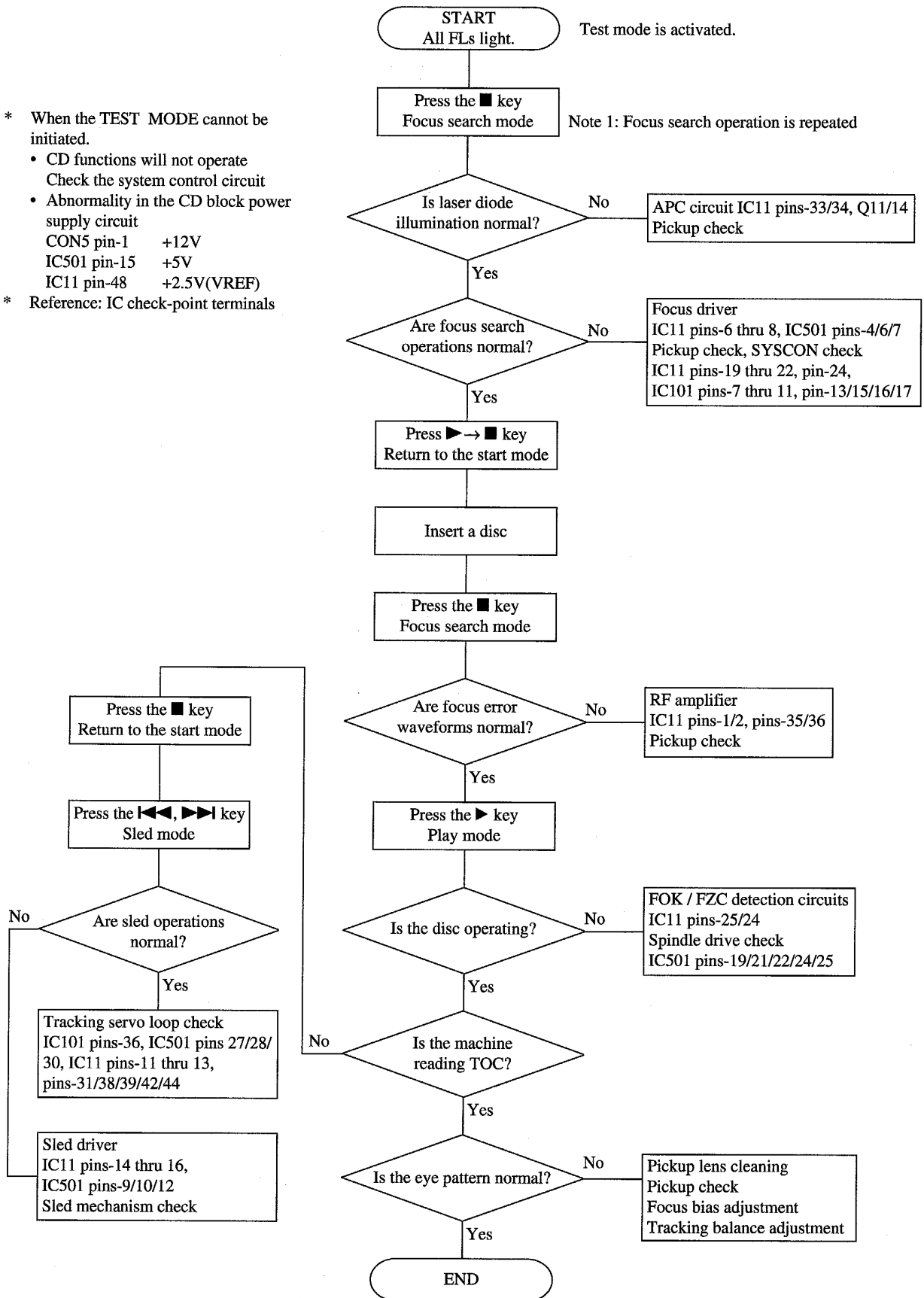
- The operation of each mode is carried out in the direction of the arrows from the start mode as indicated in the following illustration.
- When DISC DIRECT key is pressed, test mode is operated same as pressing the PLAY key.
- When CD tray is opened by OPEN / CLOSE key while play and traverse modes,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



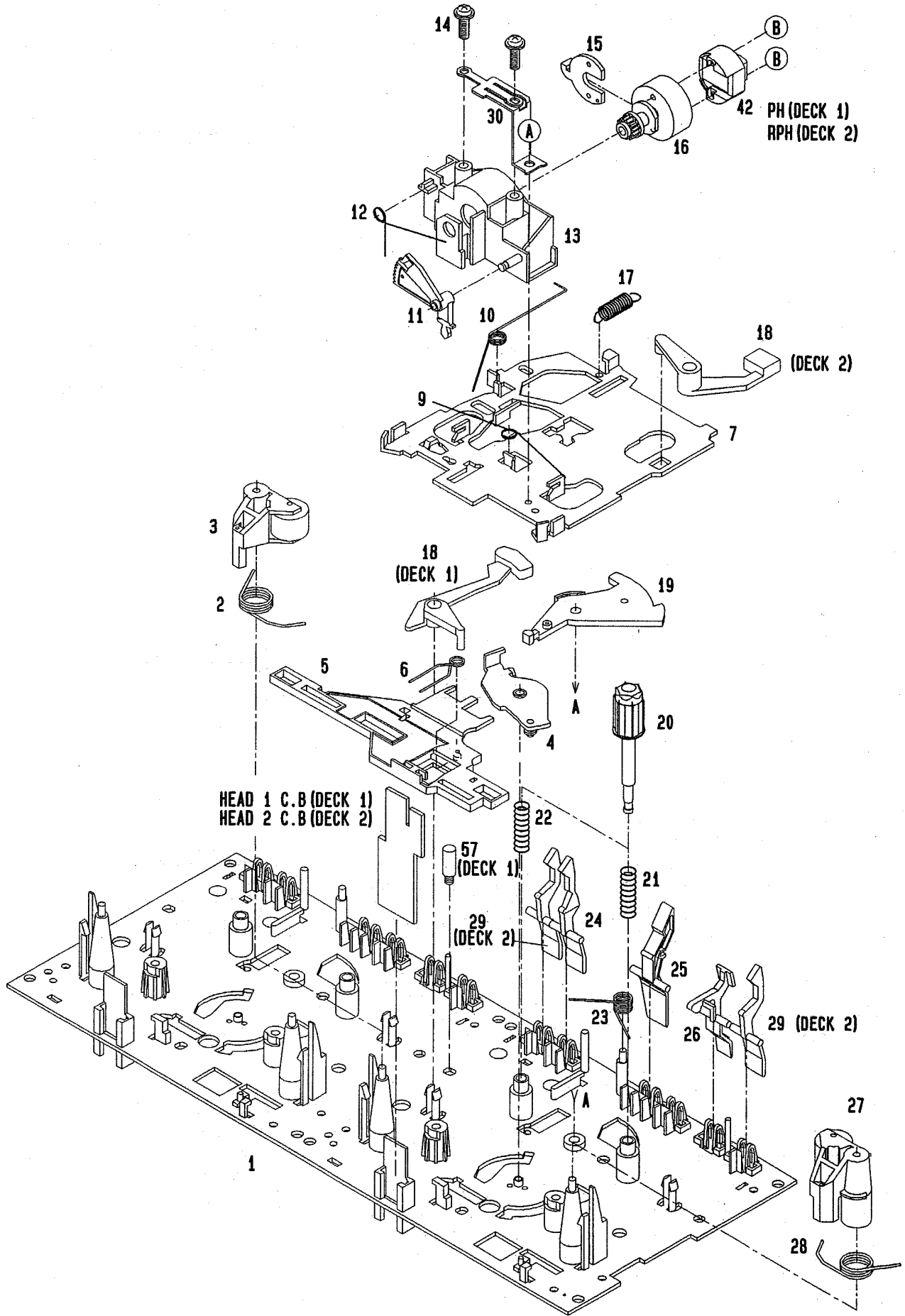
CD TROUBLE-SHOOTING

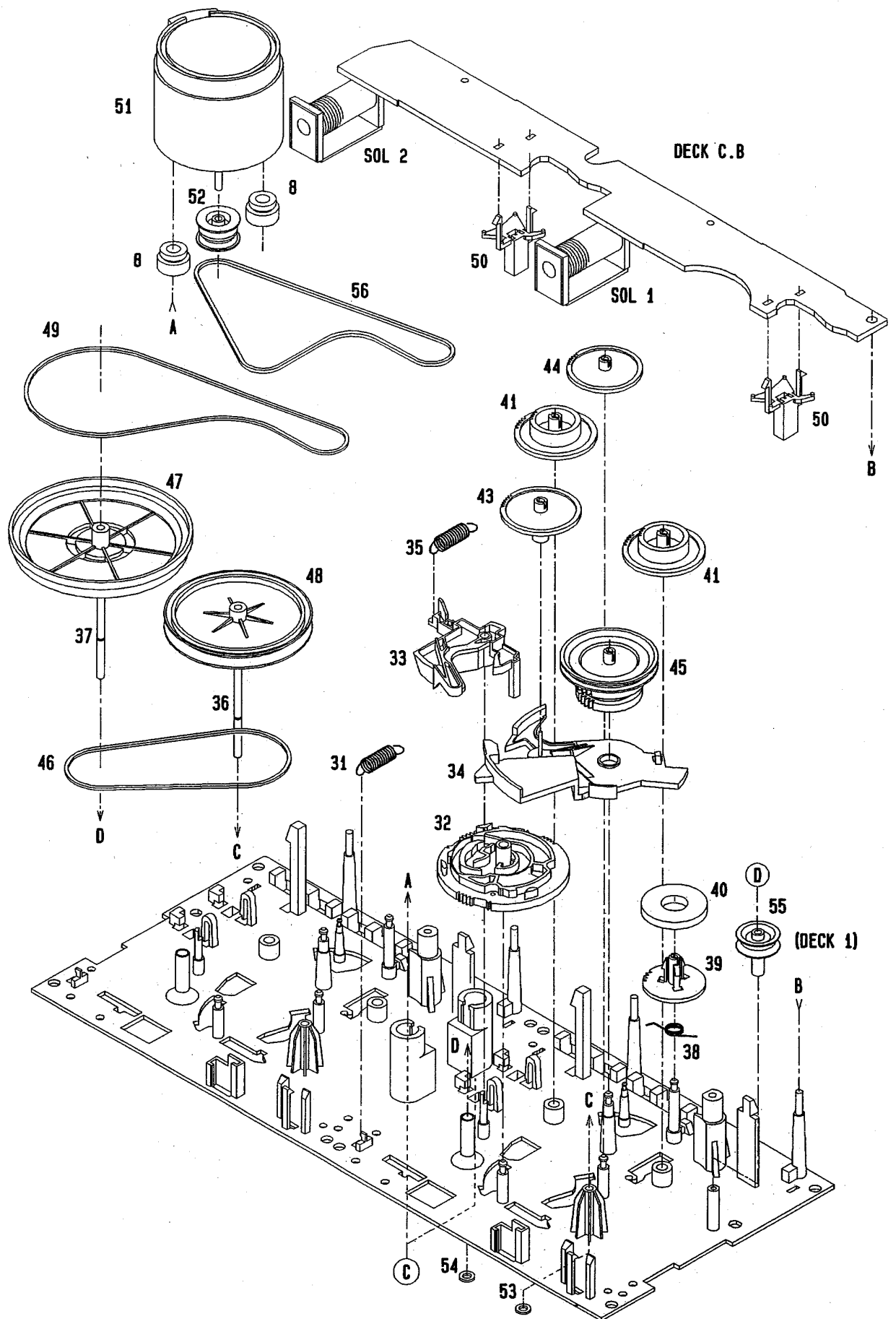
Flow Chart

- * 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



TAPE MECHANISM EXPLODED VIEW 1 / 1



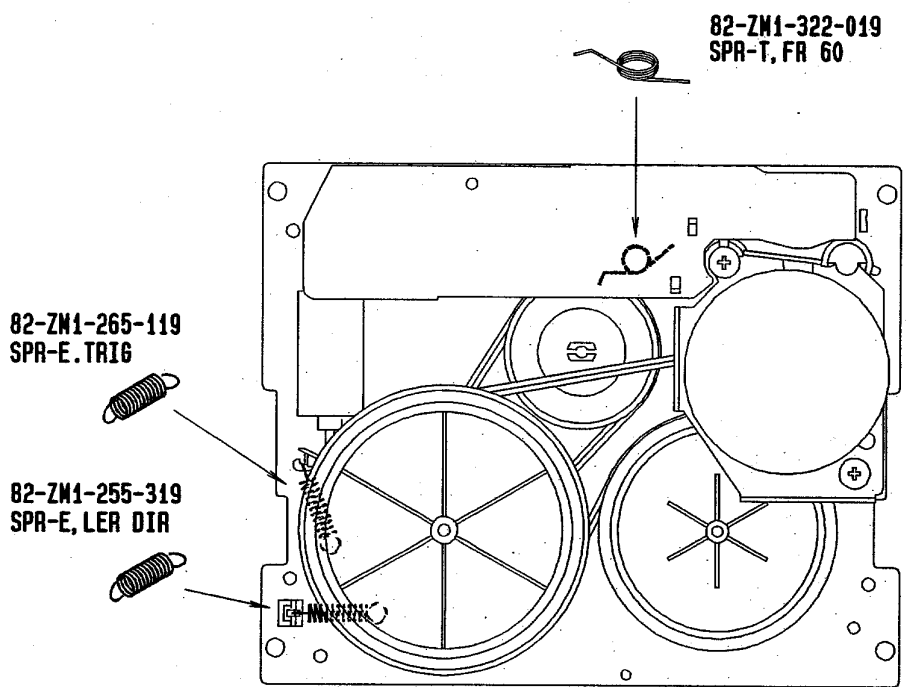
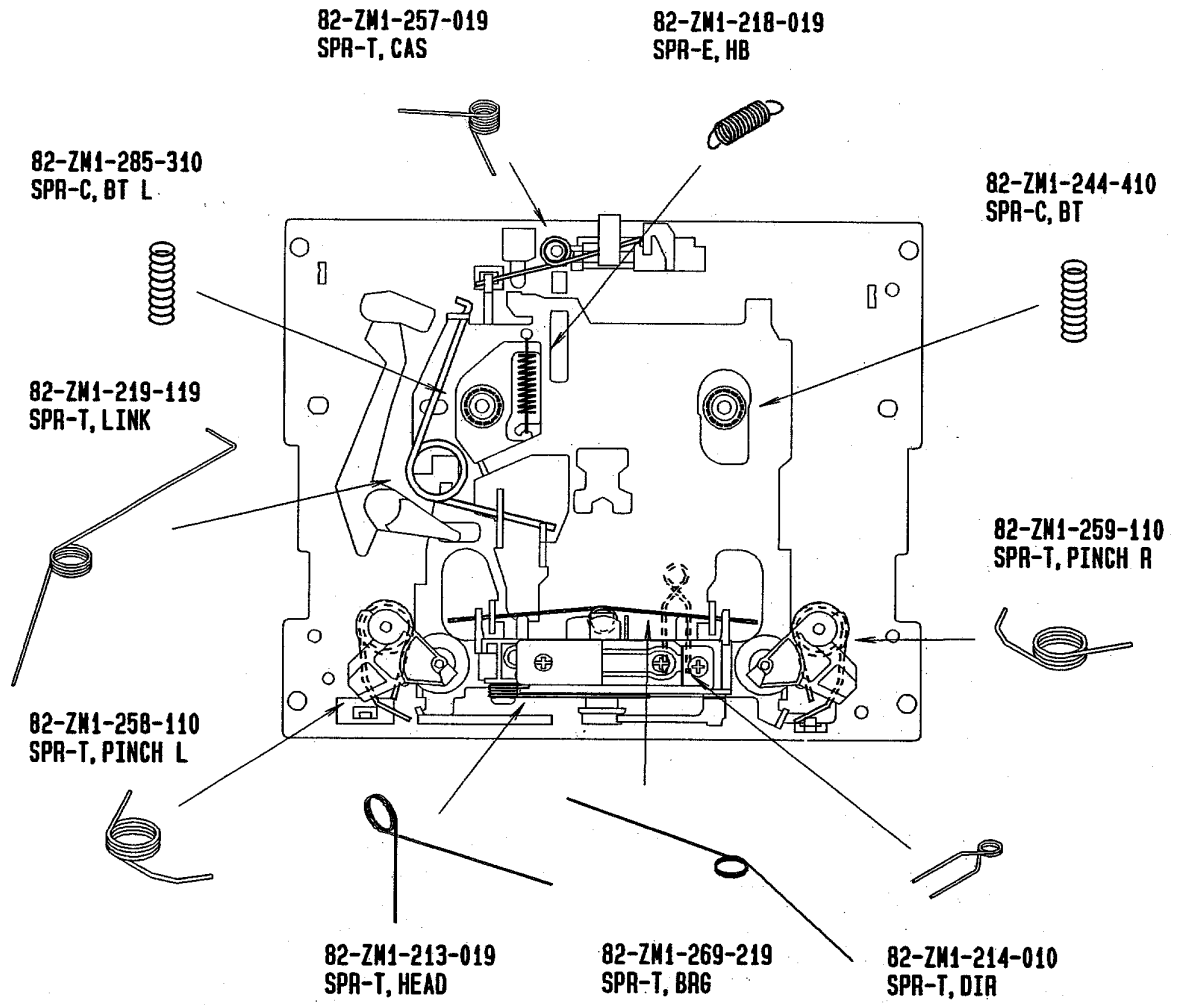


TAPE MECHANISM PARTS LIST 1 / 1

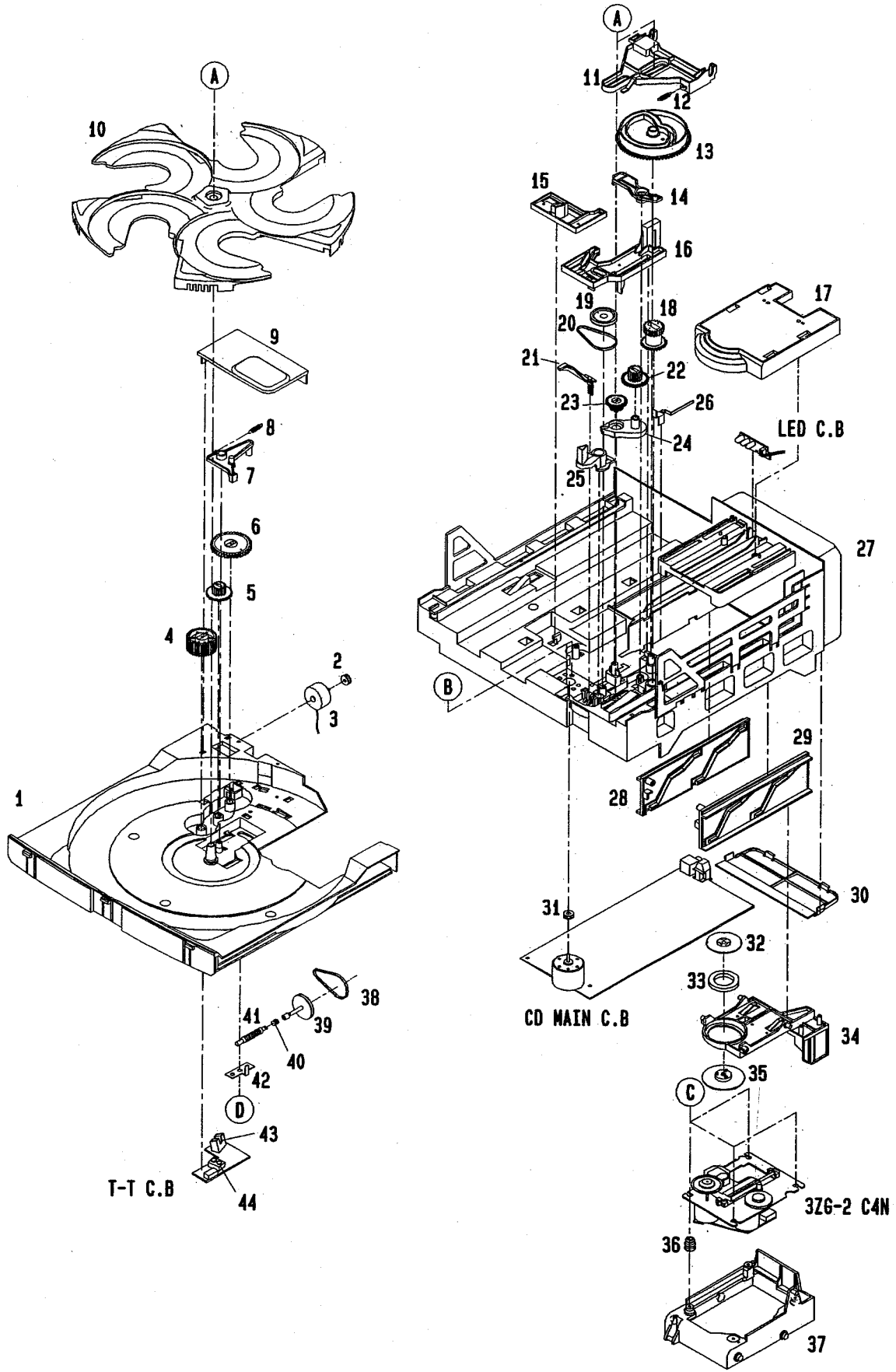
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-519		CHAS ASSY,M2	35	82-ZM1-265-119		SPR-E,TRIG
2	82-ZM1-258-110		SPR-T,PINCH L	36	82-ZM1-236-019		CAPSTAN N 2-41.5
3	82-ZM1-345-019		LVR ASSY,PINCH L W	37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
4	82-ZM1-333-010		PLATE,LINK 2	38	82-ZM1-322-019		SPR-T,FR60
5	82-ZM1-266-11K		LVR,DIR	39	82-ZM1-220-219		GEAR,IDLER
6	82-ZM1-214-010		SPR-T,DIR	40	82-ZM3-616-019		RING MAGNET 4
7	82-ZM1-206-81K		CHAS,HEAD	41	82-ZM1-216-31K		GEAR,REEL
8	82-ZM3-307-019		CUSH-G,DIA3.7-8-3.2	42	87-046-355-019		HEAD,PH HADKH2529B(PH)
9	82-ZM1-269-219		SPR-T,BRG	42	87-046-356-019		HEAD,RPH HADKH5581B(RPH)
10	82-ZM1-219-119		SPR-T,LINK	43	82-ZM1-225-21K		GEAR,FR
11	82-ZM1-210-119		GEAR,H T	44	82-ZM1-226-019		GEAR,REW
12	82-ZM1-213-019		SPR-T,HEAD	45	82-ZM1-228-810		SLIP DISK ASSY
13	82-ZM1-207-619		GUIDE,TAPE	46	82-ZM1-338-010		BELT FR4
14	82-ZM1-283-310		S-SCREW,AZIMUTH	47	82-ZM1-238-81K		FLY-WHL ASSY,R (DECK 2)
15	82-ZM1-314-119		PLATE,HEAD	47	82-ZM3-210-71K		FLY-WHL ASSY,R2 (DECK 1)
16	82-ZM1-208-119		HLDR,HEAD	48	82-ZM1-235-51K		FLY-WHL ASSY,L (DECK 2)
17	82-ZM1-218-019		SPR-E,HB	48	82-ZM3-208-61K		FLY-WHL ASSY,L2 (DECK 1)
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)	49	82-ZM3-329-210		BELT,SBU R2
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)	50	82-ZM1-245-210		HLDR,IC
19	82-ZM1-222-21K		LVR,PLAY	51	87-045-347-019		MOT,SHU2L 70(M1)
20	82-ZM1-217-319		REEL TABLE	52	82-ZM3-221-010		PULLEY,MOT 2M
21	82-ZM1-244-510		SPR-C,BT	53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
22	82-ZM1-285-310		SPR-C,BT L	54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
23	82-ZM1-257-019		SPR-T,CAS	55	82-ZM3-304-110		PULLEY,COUPLER (DECK 1)
24	82-ZM1-241-319		LVR,MC	56	82-ZM3-328-110		BELT,SBU P2
25	82-ZM1-242-019		LVR,CAS	57	82-ZM3-216-019		SHAFT,COUPLER N(DECK 1)
26	82-ZM1-243-019		LVR,STOP	A	82-ZM1-315-010		S-SCREW,GVIDE TAPE
27	82-ZM1-346-019		LVR ASSY,PINCH R W	B	80-ZM6-207-019		V+1.6-7
28	82-ZM1-259-110		SPR-T,PINCH R	C	82-ZM3-318-019		S-SCRW MOTOR M2
29	82-ZM1-240-11K		LVR,REC (DECK 2)	D	87-067-972-019		PW,1.05-3-0.25 SLT
30	82-ZM1-298-010		SPR-P,EARTH				
31	82-ZM1-255-319		SPR-E,LVR DIR				
32	82-ZM3-305-01K		GEAR,CAM M2				
33	82-ZM1-227-21K		LVR,TRIG				
34	82-ZM3-306-11K		LVR,FR M2				

SPRING APPLICATION POSITION



CD MECHANISM EXPLODED VIEW 1/2

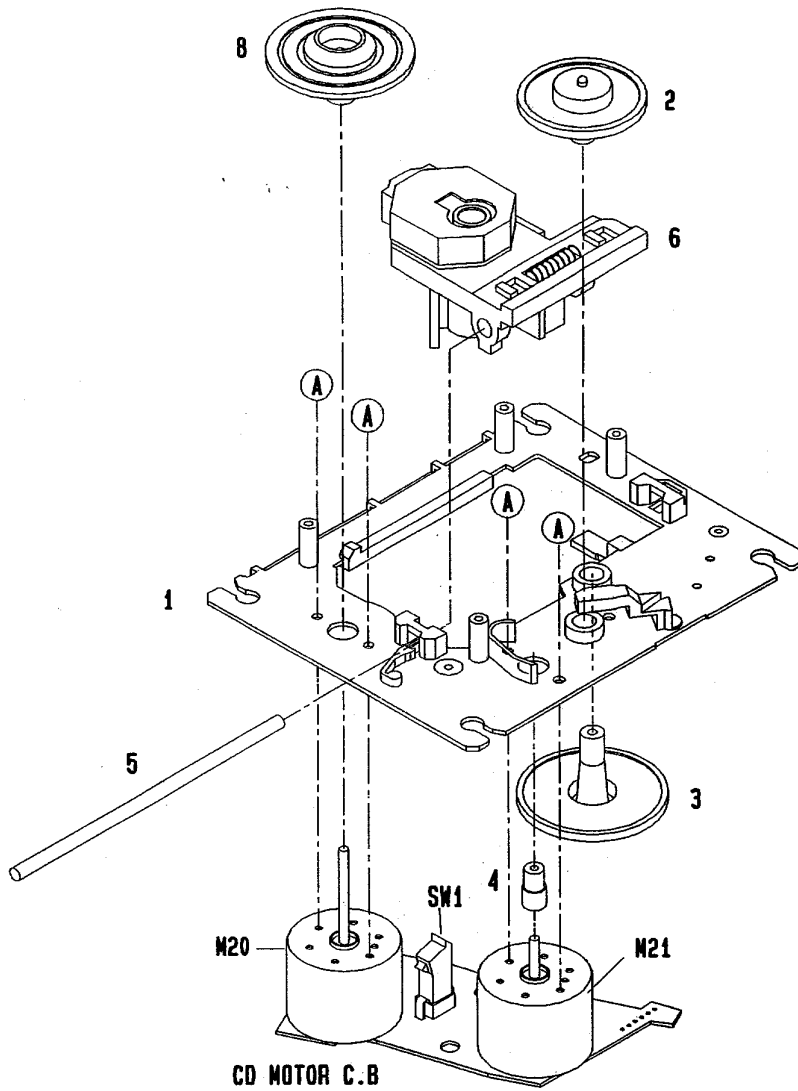


CD MECHANISM PARTS LIST 1/2

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

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

CD EXPLODED VIEW 2 / 2



CD MECHANISM PARTS LIST 2 / 2

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

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

MECHANICAL PARTS LIST 1 / 1

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-MA3-042-010		WINDOW, TOP	29	86-NFA-017-010		KEY, POWER
2	86-NFA-004-010		CABI, STEEL	30	86-NFA-019-010		KEY, GEQ
3	84-ZG1-245-110		CAP, OPTICAL	31	86-NFA-018-010		KEY, DIRECT
⚠ 4	87-050-016-010		AC CORD ASSY E<EZ>	32	86-NFA-016-010		KEY, OFEN
⚠ 4	87-050-053-010		AC CORD ASSY U<U>	33	86-NFA-020-010		KEY, DSP
⚠ 4	87-A80-023-010		AC CORD ASSY K 3P<K>	34	86-NFA-049-010		KNOB, RTRY MIC
5	87-085-185-010		BUSHING, AC CORD E<EZ, K>	35	86-NFA-042-010		CABI, FR U<U>
5	87-085-189-010		BUSHING, AC CORD U<U>	35	86-NFA-045-010		CABI, FR E (RDS) <EZ, K>
6	86-NFA-049-010		PANEL, REAR KBNE<K>	36	86-NFA-010-010		PANEL, TRAY E
6	86-NFA-050-010		PANEL, REAR EZBNE<EZ>	37	86-NFA-021-010		KEY, PLAY
6	86-NFA-043-010		PANEL, REAR UBNM<U>	38	86-NFA-022-010		KEY ASSY, FUN
7	87-085-221-010		FOOT, H 13.5	39	86-NFA-203-010		GUIDE, FL
8	82-NF5-227-010		HLDR, LOCK 2N(*)	40	87-NF5-210-110		GUIDE, LED L
9	82-NF5-228-010		SPR-C, LOCK	41	87-NFA-204-010		GUIDE, LED PLAY
10	82-NF5-229-010		PLATE, LOCK(*)	42	87-NF5-211-110		GUIDE, LED R
11	82-NF5-226-010		HLDR, LOCK 1N(*)	43	86-NFA-048-010		KEY DEMO<EZ, K>
12	86-NF6-061-010		REFLECTOR, CASS	44	86-NFA-047-010		KEY RDS<EZ, K>
13	86-NFA-041-010		PANEL, CASS R	A	87-067-579-010		BVT2+3-8 W/O SLOT
14	86-NFA-008-010		BOX, CASS R E	B	87-067-703-010		BVT2+3-10 W/O SLOT
15	82-NF5-219-010		SPR-T, EJECT 2 (SIN)	C	87-078-084-010		BVTT+3-6 W/CONVEX
16	86-NFA-031-010		WINDOW, CASS R	D	87-067-633-010		BVT2+3-8 W/O SLOT W/CONVEX
17	86-NFA-030-010		WINDOW, CASS L	F	87-591-094-410		QIT+3-6
18	82-NF5-218-010		SPR-T, EJECT 1 (SIN)	G	87-067-716-010		BVTT+3-6 BLK
19	86-NFA-007-010		BOX, CASS L E	H	87-067-752-010		BVTT+4-10 SWCH/ZN
20	86-NFA-040-010		PANEL, CASS L	I	87-721-097-410		QT2+3-12 W/O SLOT
21	87-NFA-038-010		PANEL FUN<U>	J	87-067-641-010		UTT2+3-8 W/O SLOT BLK
21	86-NFA-046-010		PANEL FUN(RDS) <EZ, K>	K	87-067-584-010		BVT2+3-6 W/O SLOT
22	86-NFA-032-010		KNOB, RTRY MAIN	L	87-067-822-010		BV2+3-20 W/O SLOT
23	81-532-080-010		LBL, CASS-COMPT	M	87-761-095-410		VFT2+3-8 W/O SLOT
24	86-NFA-029-010		WINDOW, AMP	N	87-078-191-010		S-SCREW IT+4-10 SWH12A
25	87-063-165-010		OIL-DMPR, 150	P	87-067-586-010		BVTT+4-8
26	82-NE6-067-010		BADGE, AIWA 30N				
27	86-NFA-028-010		WINDOW, CD				
28	86-NFA-033-010		KEY, VF<HR>				
28	86-NHA-010-010		KEY, EDIT<EZ, K>				

ACCESSORIES / PACKAGE LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	86-NFA-903-010		IB, U(ESF)M<U>
1	86-NFA-904-010		IB, K(E)NE<K>
1	86-NFA-905-010		IB, E(EGFSI)NE<EZ>
2	86-MA3-701-110		RC UNIT, 6AS01
3	87-043-106-010		ANT, FM 1007 AWG<EZ, K>
4	87-043-115-010		FEEDER-ANT, FM<U>
5	87-006-225-010		ANT, LOOP ANT NC2

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
TRIMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

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

サービス技術ニュース	
番号	連絡内容
G-	-
G-	-
G-	-

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