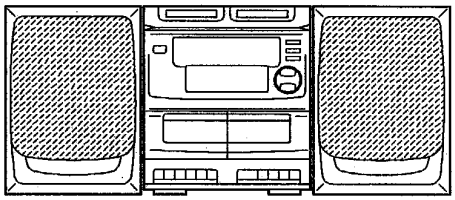
aiwa

aiwa SERVICE

NSX-E5M
CA-DW570M

SERVICE MANUAL



CD CARRING COMPONENT SYSTEM

- BASIC CD MECHANISM: 5ZG-3 D1
- BASIC TAPE MECHANISM: TN-21ZSW-1691

•TYPE: LH (DW570M)
HE,HR,K,EEZ,EZ (E5M)

S/M Code No. 09-968-145-00I

TABLE OF CONTENTS

SPECIFICATIONS

Tuner section <LH>

FM 87.5 - 108.0 MHz
(50 kHz steps)
Antenna: FM antenna

AM 530 - 1,710 kHz
(10 kHz steps)
531 - 1,602 kHz
(9 kHz steps)
Antenna: Ferrite bar antenna

Amplifier section <LH>

Power output
5W + 5W (4 ohms, EIAJ)

Power requirements
DC 12 V using eight size D (R20) batteries
LH model: AC 110-120V/220-240V selectable, 50/60 Hz

Power consumption
LH model: 34 W

Tuner section <HE, HR>

FM 87.5 - 108.0 MHz
Antenna: FM antenna

SW 3.8 - 12.5 MHz
Antenna: Ferrite bar antenna

MW 531 - 1,602 kHz
(9 kHz steps)
530 - 1,710 kHz
(10 kHz steps)
Antenna: Ferrite bar antenna

Amplifier section <HE, HR>

Power output
5W + 5W (4 ohms, EIAJ)

Power requirements
DC 12 V using eight size D (R20) batteries
AC 110-120V/220-240V selectable, 50/60 Hz

Power consumption
34 W

Tuner section <K, EEZ< EZ>

FM 87.5 - 108.0 MHz
Antenna: FM antenna

MW 531 - 1,602 kHz
(9 kHz steps)
530 - 1,710 kHz
(10 kHz steps)
Antenna: Ferrite bar antenna

LW 153 - 288 kHz
Antenna: Ferrite bar antenna

Amplifier section <K, EEZ, EZ>

Power output
6.5W + 6.5W (DIN MUSIC POWER)
5W + 5W (10% T.H.D/4ohms AC)
4W + 4W (DIN 1% Rated power)

Power requirements
DC 12 V using eight size D (R20) batteries
AC 230V, 50 Hz

Power consumption
40 W

CD player section

Disc Compact disc

Scanning method
Non-contact optical laser (semiconductor laser application)

Laser Semiconductor laser
λ = 780 nm

Rotation speed
Approx. 500 - 200 rpm/CLV

Error correction
Cross Interleave, Reed Solomon code

Number of channels
2 channels

D/A conversion
1-bit dual

Cassette deck section

Track format
4 tracks, 2 channels

Frequency response
Normal tape: 50-12,000 Hz (EIAJ)

Recording system
AC bias

Erasure system
Magnet erase

Motor DC motor (1)

Heads Deck 1
Recording/playback head (1)
Erasure head (1)
Deck 2
Playback head (1)

Common section

Dimensions (W × H × D)
274 × 301.2 × 281.6 mm
(10 7/8 × 11 7/8 × 11 1/8 in.)

Weight 4.15 kg (9.13 lbs.)
(not including batteries)

Speaker

Cabinet type
2-way bass reflex type

Speaker 120 mm cone type woofer
27 mm ceramic type tweeter

Impedance
4 ohms

Allowable max. input
10 W

Dimensions (W × H × D)
211.5 × 292 × 210.8 mm × 2
(8 3/8 × 11 1/2 × 8 3/8 in.)

Weight 1.55 kg (3.41 lbs.) × 2

- Design and specifications are subject to change without notice.

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 käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling 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 sikkerhedsafbrydereer 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.

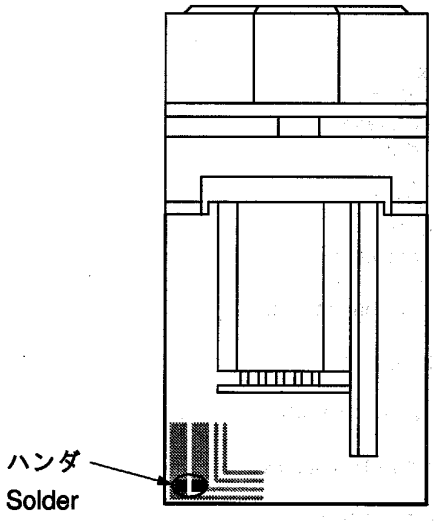
CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

Precaution to replace Optical block

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.

CD PICK-UP ASSY P.C.B.



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.	カンリ NO.	DESCRIPTION
IC			
	87-A20-186-010		IC,LA9240M
	87-017-680-010		IC,TA8176SN
	87-A20-187-010		IC,LC78622E
	87-017-916-010		IC,BU4066BC
	87-A20-157-010		IC,TA2092N
	87-001-176-010		IC,TA8102P
	87-001-536-010		IC,NJM78M05FA
	87-002-268-010		IC,LA1851N
	87-001-376-010		IC,LC7218
	87-017-681-010		IC,TA8126S
	87-020-828-010		IC,BA3416BL
	87-001-440-010		IC,BA15218N
	87-070-417-010		IC,NJM4558DD
	87-017-914-010		IC,BU4094BC
	87-017-804-010		IC,BU4052BC
	86-CT4-629-010		IC,LC867120W-5B69
	87-070-282-010		IC,BU2092
	87-070-083-010		IC,GP1U281X
	87-017-787-010		IC,M62412P
	87-017-564-010		IC,LC7533
	87-002-848-010		IC,TA8229K
⚠	87-001-132-010		PROTECTOR,IC ICP-N38
	87-070-416-010		IC,NJU7201L55
⚠	87-002-330-010		PROTECTOR,IC ICP-N5
TRANSISTOR			
	87-026-463-080		TR,2SA933SRS
	89-319-233-080		TR,2SC1923O
	89-112-965-080		TR,2SA1296GR
	87-026-291-080		TR,DTC124XS
	87-026-464-080		TR,DTC114TS
	87-026-572-080		TR,DTA114TS TP
	87-026-462-080		TR,2SC1740SRS
	87-026-486-080		TR,DTA144TS<EXCEPT LH>
	87-026-288-080		TR,DTA143XS<EXCEPT LH>
	89-501-614-080		FET,2SK161Y
	87-026-287-080		TR,DTC143ES
	87-026-286-080		TR,DTA143ES
	89-502-464-080		FET,2SK246Y
	89-318-154-080		TR,2SC1815Y
	87-026-214-080		TR,DTA114YS
	89-320-011-080		TR,2SC2001K
	89-322-405-680		TR,2SC2240GR
	89-414-683-080		TR,2SD1468
	89-213-702-010		TR,2SB1370E
	89-113-187-080		TR,2SA1318T
	89-109-521-080		TR,2SA952K
DIODE			
	87-070-345-080		DIODE,1N4148
	87-020-605-080		DIODE,1SS135<EXCEPT LH>
	87-A40-156-010		DIODE,1N5392
	87-017-164-080		ZENER,HZS9A2L
	87-017-148-080		ZENER,HZS6A1L
	87-017-139-080		ZENER,HZS15-2
MAIN C.B			
C1	87-A10-164-010		CAP,CER 100P-50 K SL
C2	87-A10-131-010		CAP,CER 5P-50 K CH
C3	87-A10-136-010		CAP,CER 10P-50 K CH
C4	87-A10-172-010		CAP,CER 470P-50KY5E<EZ,LH,K,EEZ>
C5	87-A10-132-010		CAP,CER 6P-50 K CH
C6	87-A10-136-010		CAP,CER 10P-50 K CH
C7	87-A10-182-010		CAP,CER 0.01-50 Z F
C8	87-A10-182-010		CAP,CER 0.01-50 Z F
C10	87-A10-133-010		CAP,CER 7P-50 K CH
C11	87-A10-138-010		CAP,CER 15P-50 K CH
C12	87-A10-173-010		CAP,CER 560P-50 K Y5E
C13	87-A10-182-010		CAP,CER 0.01-50 Z F
C15	87-A10-137-010		CAP,CER 12P-50 K CH<EXCEPT LH>
C15	87-A10-138-010		CAP,CER 15P-50 K CH<LH>
C16	87-A10-163-010		CAP,CER 82P-50 K SL
C17	87-A10-182-010		CAP,CER 0.01-50 Z F
C18	87-A10-182-010		CAP,CER 0.01-50 Z F
C21	87-A10-176-010		CAP,CER 1000P-50 K B
C22	87-A10-140-010		CAP,CER 22P-50 K CH
C23	87-A10-170-010		CAP,CER 330P-50 K Y5E
C24	87-A10-177-010		CAP,CER 1500P-50 K B
C31	87-A10-182-010		CAP,CER 0.01-50 Z F
C32	87-A10-182-010		CAP,CER 0.01-50 Z F
C41	87-A10-182-010		CAP,CER 0.01-50 Z F
C53	87-A10-182-010		CAP,CER 0.01-50 Z F<EZ,K,EEZ>
C54	87-A10-140-010		CAP,CER 22P-50 K CH<EZ,K,EEZ>
C55	87-A10-176-010		CAP,CER 1000P-50 K B<EZ,K,EEZ>
C56	87-A10-158-010		CAP,CER 33P-50 K SL<HE,HR>
C57	87-A10-166-010		CAP,CER 150P-50 K SL<EZ,K,EEZ>
C57	87-A10-171-010		CAP,CER 390P-50 K Y5E<HE,HR>
C58	87-A10-179-010		CAP,CER 3300P-50 M E<HE,HR>
C58	87-A10-171-010		CAP,CER 390P-50KY5E<EZ,LH,K,EEZ>
C59	87-A10-163-010		CAP,CER 82P-50 K SL<EZ,K,EEZ>
C59	87-018-173-080		CAP,TC U 15P-50J UJ UP050<HE,HR>
C60	87-018-171-080		CAP,TC U 10P-50J UJ UP050<HE,HR>
C60	87-018-173-080		CAP,TC U 15P-50<EZ,LH,K,EEZ>
C61	87-A10-128-010		CAP,CER 2P-50 K CH<LH>
C64	87-010-544-080		CAP,E 0.1-50 M SME
C72	87-A10-182-010		CAP,CER 0.01-50 Z F<EZ,K,EEZ>
C72	87-A10-164-010		CAP,CER 100P-50 K SL<LH>
C74	87-A10-169-010		CAP,CER 270P-50 K Y5E<EZ,K,EEZ>
C74	87-A10-175-010		CAP,CER 820P-50 K Y5E<LH>
C101	87-A10-182-010		CAP,CER 0.01-50 Z F
C103	87-010-248-080		CAP,E 220-10 SME
C104	87-010-402-080		CAP,E 2.2-50 M SME
C105	87-A10-182-010		CAP,CER 0.01-50 Z F
C106	87-A10-181-010		CAP,CER 6800P-50 M E
C107	87-A10-168-010		CAP,CER 220P-50 K Y5E
C108	87-010-401-080		CAP,E 1-50 M SME
C109	87-010-401-080		CAP,E 1-50 M SME
C110	87-010-401-080		CAP,E 1-50 M SME
C111	87-010-546-080		CAP,E 0.33-50 SME
C113	87-010-404-080		CAP,E 4.7-50 M SME
C114	87-A10-169-010		CAP,CER 270P-50 K Y5E<HE,HR>
C114	87-A10-172-010		CAP,CER 470P-50KY5E<EZ,LH,K,EEZ>
C115	87-A10-182-010		CAP,CER 0.01-50 Z F<EZ,LH,K,EEZ>
C115	87-A10-176-010		CAP,CER 1000P-50 K B<HE,HR>
C116	87-010-405-080		CAP,E 10-50 M SME
C117	87-A10-182-010		CAP,CER 0.01-50 Z F
C131	87-010-545-080		CAP,E 0.22-50 M SME
C132	87-010-545-080		CAP,E 0.22-50 M SME
C141	87-A10-182-010		CAP,CER 0.01-50 Z F
C142	87-010-221-080		CAP,E 470-10 M SME
C151	87-A10-157-010		CAP,CER 27P-50 K SL
C152	87-A10-157-010		CAP,CER 27P-50 K SL
C153	87-A10-164-010		CAP,CER 100P-50 K SL
C154	87-A10-164-010		CAP,CER 100P-50 K SL
C155	87-A10-164-010		CAP,CER 100P-50 K SL
C156	87-A10-164-010		CAP,CER 100P-50 K SL
C157	87-A10-176-010		CAP,CER 1000P-50 K B
C158	87-A10-176-010		CAP,CER 1000P-50 K B
C159	87-A10-182-010		CAP,CER 0.01-50 Z F
C160	87-010-263-080		CAP,E 100-10 SME
C161	87-A10-182-010		CAP,CER 0.01-50 Z F
C162	87-A10-177-010		CAP,CER 1500P-50 K B
C163	87-A10-182-010		CAP,CER 0.01-50 Z F
C164	87-A10-163-010		CAP,CER 82P-50 K SL
C165	87-A10-182-010		CAP,CER 0.01-50 Z F

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
C166	87-A10-182-010		CAP,CER 0.01-50 Z F
C167	87-015-243-080		CAP,E 3.3-50 LL
C168	87-A10-182-010		CAP,CER 0.01-50 Z F
C171	87-A10-182-010		CAP,CER 0.01-50 Z F
C191	87-A10-177-010		CAP,CER 1500P-50 K B
C192	87-A10-169-010		CAP,CER 270P-50 K Y5E
C194	87-010-263-080		CAP,E 100-10 SME
C195	87-010-374-080		CAP,E 47-10 M SME
C301	87-018-130-080		CAP,TC U 820P-50 K B UP050
C302	87-018-130-080		CAP,TC U 820P-50 K B UP050
C303	87-A10-175-010		CAP,CER 820P-50 K Y5E
C304	87-A10-175-010		CAP,CER 820P-50 K Y5E
C305	87-010-374-080		CAP,E 47-10 M SME
C306	87-010-374-080		CAP,E 47-10 M SME
C307	87-010-382-080		CAP,E 22-25 M SME
C308	87-010-405-080		CAP,E 10-50 M SME
C309	87-010-545-080		CAP,E 0.22-50 M SME
C310	87-010-545-080		CAP,E 0.22-50 M SME
C311	87-010-248-080		CAP,E 220-10 SME
C312	87-010-374-080		CAP,E 47-10 M SME
C315	87-010-401-080		CAP,E 1-50 M SME
C316	87-010-401-080		CAP,E 1-50 M SME
C317	87-010-382-080		CAP,E 22-25 M SME
C318	87-010-382-080		CAP,E 22-25 M SME
C319	87-010-405-080		CAP,E 10-50 M SME
C320	87-010-405-080		CAP,E 10-50 M SME
C321	87-A10-170-010		CAP,CER 330P-50 K Y5E
C322	87-A10-170-010		CAP,CER 330P-50 K Y5E
C325	87-A10-177-010		CAP,CER 1500P-50 K B
C326	87-A10-177-010		CAP,CER 1500P-50 K B
C327	87-010-404-080		CAP,E 4.7-50 M SME
C328	87-A10-176-010		CAP,CER 1000P-50 K B
C329	87-A10-178-010		CAP,CER 2200P-50 K B
C331	87-010-374-080		CAP,E 47-10 M SME
C334	87-A10-167-010		CAP,CER 180P-50 K SL
C341	87-A10-170-010		CAP,CER 330P-50 K Y5E
C342	87-A10-170-010		CAP,CER 330P-50 K Y5E
C351	87-010-382-080		CAP,E 22-25 M SME
C451	87-A10-182-010		CAP,CER 0.01-50 Z F
C452	87-A10-170-010		CAP,CER 330P-50 K Y5E
C481	87-A10-182-010		CAP,CER 0.01-50 Z F
C501	87-010-401-080		CAP,E 1-50 M SME
C502	87-010-401-080		CAP,E 1-50 M SME
C503	87-010-401-080		CAP,E 1-50 M SME
C504	87-010-401-080		CAP,E 1-50 M SME
C505	87-010-221-080		CAP,E 470-10 M SME
C507	87-A10-182-010		CAP,CER 0.01-50 Z F
C508	87-A10-182-010		CAP,CER 0.01-50 Z F
C531	87-010-401-080		CAP,E 1-50 M SME
C532	87-010-401-080		CAP,E 1-50 M SME
C539	87-010-545-080		CAP,E 0.22-50 M SME
C540	87-010-545-080		CAP,E 0.22-50 M SME
C541	87-010-260-080		CAP,E 47-25 SME
C571	87-010-401-080		CAP,E 1-50 M SME
C572	87-010-401-080		CAP,E 1-50 M SME
C573	87-010-401-080		CAP,E 1-50 M SME
C574	87-010-401-080		CAP,E 1-50 M SME
C579	87-010-374-080		CAP,E 47-10 M SME
C580	87-010-401-080		CAP,E 1-50 M SME
C581	87-010-544-080		CAP,E 0.1-50 M SME
C582	87-010-371-080		CAP,E 470-6.3 M SME
C583	87-010-221-080		CAP,E 470-10 M SME
C591	87-010-401-080		CAP,E 1-50 M SME
C592	87-010-401-080		CAP,E 1-50 M SME
C593	87-A10-182-010		CAP,CER 0.01-50 Z F
C594	87-A10-182-010		CAP,CER 0.01-50 Z F
C605	87-A10-178-010		CAP,CER 2200P-50 K B
C606	87-A10-178-010		CAP,CER 2200P-50 K B
C607	87-010-406-080		CAP,E 22-50 M SME
C608	87-010-406-080		CAP,E 22-50 M SME
C609	87-010-260-080		CAP,E 47-25 SME
C613	87-010-263-080		CAP,E 100-10 SME
C614	87-010-263-080		CAP,E 100-10 SME
C615	87-010-376-090		CAP,E 2200-10 M SME
C616	87-010-376-090		CAP,E 2200-10 M SME
C621	87-010-260-080		CAP,E 47-25 SME
C622	87-010-387-080		CAP,E 470-25 M SME
C625	87-010-405-080		CAP,E 10-50 M SME
C641	87-010-248-080		CAP,E 220-10 SME
C720	87-010-405-080		CAP,E 10-50 M SME
C721	87-010-453-090		CAP,E 4700-25 SME
C722	87-010-385-080		CAP,E 220-25 M SME
C723	87-010-248-080		CAP,E 220-10 SME
C724	87-A10-182-010		CAP,CER 0.01-50 Z F
C726	87-010-404-080		CAP,E 4.7-50 M SME
C727	87-010-401-080		CAP,E 1-50 M SME
C728	87-010-221-080		CAP,E 470-10 M SME
C729	87-010-263-080		CAP,E 100-10 SME
C730	87-010-248-080		CAP,E 220-10 SME
C741	87-010-263-080		CAP,E 100-10 SME
C831	87-010-265-080		CAP,E 33-16 M SME
C832	87-010-401-080		CAP,E 1-50 M SME
CF1	87-008-264-010		FLTR,CF FMSFE10.7MS2<EZ,K,EEZ>
CF1	87-008-261-010		FLTR,CFSFE10.7MA5<HE,HR,LH>
CF101	87-008-264-010		FLTR,CF FMSFE10.7MS2<EZ,K,EEZ>
CF101	87-008-261-010		FLTR,CFSFE10.7MA5<HE,HR,LH>
CT51	87-011-219-080		TRIMMER,CER10P6.15X5.9<EXCEPT LH>
CT51	87-011-220-080		TRIMMER,CER20P6.15X5.9 VCT51<LH>
CT52	87-011-219-080		TRIMMER,CER 10P 6.15X5.9<HE,HR>
CT52	87-011-220-080		TRIMMER,CER20P6.15X5.9<EZ,K,EEZ>
IFT101	87-008-470-010		IFT,FM 7.5M 7KM
J601	87-009-216-010		JACK,3.5 BLK ST
J602	87-A60-217-010		TERMINAL,SPKR 4P
J801	87-099-715-010		JACK,PIN 2P
L1	87-003-133-010		COIL,0.22UH
L2	87-006-217-010		COIL,RF FM 4-1/2TS<EXCEPT LH>
L2	87-A50-046-010		COIL,RFFM 5-1/2 TS<LH>
L3	87-006-217-010		COIL,RF FM 4-1/2TS
L4	87-005-847-080		COIL,2.2UH K CECS
L5	87-006-217-010		COIL,RF FM 4-1/2TS
L51	87-007-253-010		COIL,OSC LW PS 796KHZ<EZ,K,EEZ>
L51	87-007-304-010		COIL,OSC MW-H PS<HE,HR>
L52	87-007-301-010		COIL,OSC MW PS<LH>
L52	87-007-304-010		COIL,OSC MW-H PS<EZ,K,EEZ>
L52	87-007-298-010		COIL,OSC SW3 PS<HE,HR>
L61	86-CT4-609-010		BAR-ANT,AM<LH>
L151	87-A50-073-080		COIL,4.70UH (CECS)
L152	87-A50-083-080		COIL,47UH (CECS)
L191	87-A50-094-010		COIL,OSCDC-DC 796KHZ
L192	87-A50-087-080		COIL,100UH (CECS)
L301	87-007-322-010		COIL,OSC BIAS 61KHZ
L601	87-A50-067-080		COIL,1.00UH (CECS)
L602	87-A50-067-080		COIL,1.00UH (CECS)
MFT101	87-008-460-010		FLTR,CFCFMT
R607	87-022-480-080		RES,NF 2.2-1/4W J
R608	87-022-480-080		RES,NF 2.2-1/4W J
R821	87-022-480-080		RES,NF 2.2-1/4W J
R822	87-022-480-080		RES,NF 2.2-1/4W J
SFR101	87-024-173-080		SFR,22K H RH0638C
SFR102	87-024-172-080		SFR,10K DIA6V
SFR751	87-024-169-080		SFR,2.2K H RH0638C
SW301	87-A90-089-010		SW,SL 1-6-2
VC1	87-002-730-080		VARI-CAP,SVC203SPA
VC2	87-002-730-080		VARI-CAP,SVC203SPA
VC3	87-002-730-080		VARI-CAP,SVC203SPA
VC51	81-754-634-010		VARI-CAP,KV1260<EXCEPT LH>
VC52	81-754-634-010		VARI-CAP,KV1260
X101	87-030-218-010		VIB,CER 457KHZKBRHS15<EXCEPT LH>
X101	87-A70-040-010		VIB,CER 457KHZ KBR-457KTS15<LH>
X151	87-030-243-010		VIB,XTAL 7.200MHZ NR-18

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
FRONT C.B			
C401	87-A10-165-010		CAP,CER 120P-50 K SL<HE,HR,LH>
C401	87-A10-169-010		CAP,CER 270P-50 K Y5E<EZ,K,EEZ>
C402	87-A10-178-010		CAP,CER 2200P-50 K B
C404	87-A10-166-010		CAP,CER 150P-50 K SL
C405	87-010-401-080		CAP,E 1-50 M SME
C406	87-010-545-080		CAP,E 0.22-50 M SME
C407	87-A10-176-010		CAP,CER 1000P-50 K B
C408	87-010-401-080		CAP,E 1-50 M SME
C409	87-A10-176-010		CAP,CER 1000P-50 K B
C410	87-010-248-080		CAP,E 220-10 SME
C411	87-010-374-080		CAP,E 47-10 M SME
C412	87-010-405-080		CAP,E 10-50 M SME
C501	87-010-248-080		CAP,E 220-10 SME
C503	87-010-401-080		CAP,E 1-50 M SME
C504	87-010-400-080		CAP,E 0.47-50 M SME
C506	87-A10-140-010		CAP,CER 22P-50 K CH
C507	87-A10-140-010		CAP,CER 22P-50 K CH
C508	87-A10-159-010		CAP,CER 39P-50 K SL
C509	87-A10-160-010		CAP,CER 47P-50 K SL
C510	87-A10-158-010		CAP,CER 33P-50 K SL
C512	87-A10-176-010		CAP,CER 1000P-50 K B
C513	87-010-405-080		CAP,E 10-50 M SME
C517	87-010-263-080		CAP,E 100-10 SME
C518	87-010-545-080		CAP,E 0.22-50 M SME
C519	87-A10-176-010		CAP,CER 1000P-50 K B
C520	87-A10-182-010		CAP,CER 0.01-50 Z F
C521	87-010-374-080		CAP,E 47-10 M SME
C522	87-010-374-080		CAP,E 47-10 M SME
D514	87-A40-162-010		LED,L-1154SRD
D519	87-A40-162-010		LED,L-1154SRD
D520	87-A40-162-010		LED,L-1154SRD
D521	87-A40-162-010		LED,L-1154SRD
D522	87-A40-162-010		LED,L-1154SRD
D523	87-A40-162-010		LED,L-1154SRD
D524	87-A40-162-010		LED,L-1154SRD
D525	87-A40-162-010		LED,L-1154SRD
D526	87-A40-162-010		LED,L-1154SRD
D527	87-A40-162-010		LED,L-1154SRD
D528	87-A40-162-010		LED,L-1154SRD
D529	87-A40-161-010		LED,L-1154SGD
D530	87-A40-161-010		LED,L-1154SGD
D531	87-A40-161-010		LED,L-1154SGD
D532	87-A40-161-010		LED,L-1154SGD
D533	87-A40-161-010		LED,L-1154SGD
D534	87-A40-161-010		LED,L-1154SGD
D535	87-A40-161-010		LED,L-1154SGD
D536	87-A40-161-010		LED,L-1154SGD
D537	87-A40-161-010		LED,L-1154SGD
D550	87-A40-161-010		LED,L-1154SGD
J401	82-NF7-630-010		JACK,3.5 MO
L401	87-A50-067-080		COIL,1.00UH (CECS)<HE,HR,LH>
L401	87-A50-073-080		COIL,4.70UH (CECS)<EZ,K,EEZ>
L500	87-003-171-010		COIL,15UH FL5R100
L501	87-005-849-080		COIL,10UH K CECS
L502	87-003-171-010		COIL,15UH FL5R100
LCD501	86-CT4-601-010		LCD,6CT-4
SW570	87-036-170-080		SW,TACT SKHVBA
SW571	87-036-170-080		SW,TACT SKHVBA
SW572	87-036-170-080		SW,TACT SKHVBA
SW573	87-036-170-080		SW,TACT SKHVBA
SW574	87-036-170-080		SW,TACT SKHVBA
SW575	87-036-170-080		SW,TACT SKHVBA
SW576	87-036-170-080		SW,TACT SKHVBA
SW577	87-036-170-080		SW,TACT SKHVBA
SW581	87-036-170-080		SW,TACT SKHVBA
SW582	87-036-170-080		SW,TACT SKHVBA
SW583	87-036-170-080		SW,TACT SKHVBA
SW584	87-036-170-080		SW,TACT SKHVBA
SW585	87-036-170-080		SW,TACT SKHVBA
SW586	87-036-170-080		SW,TACT SKHVBA
SW587	87-036-170-080		SW,TACT SKHVBA
SW588	87-036-170-080		SW,TACT SKHVBA
SW589	87-036-170-080		SW,TACT SKHVBA
VR401	82-NK7-615-010		VR,10KA RK11K1130
X501	87-030-273-010		VIB,XTAL 32.768KHZ DT-38 5PPM
X502	87-A70-018-080		VIB,CER 6.00MHZ MG200
CD C.B			
C1	87-010-403-080		CAP,E 3.3-50 M SME
C4	87-010-248-080		CAP,E 220-10 SME
C6	87-010-374-080		CAP,E 47-10 M SME
C9	87-010-263-080		CAP,E 100-10 SME
C10	87-010-263-080		CAP,E 100-10 SME
C12	87-010-401-080		CAP,E 1-50 M SME
C14	87-010-405-080		CAP,E 10-50 M SME
C16	87-010-545-080		CAP,E 0.22-50 M SME
C17	87-A10-170-010		CAP,CER 330P-50 K Y5E
C30	87-A10-168-010		CAP,CER 220P-50 K Y5E
C31	87-010-400-080		CAP,E 0.47-50 M SME
C32	87-010-263-080		CAP,E 100-10 SME
C33	87-010-402-080		CAP,E 2.2-50 M SME
C36	87-010-374-080		CAP,E 47-10 M SME
C37	87-010-404-080		CAP,E 4.7-50 M SME
C40	87-A10-127-010		CAP,CER 1P-50 K CH
C42	87-A10-140-010		CAP,CER 22P-50 K CH
C48	87-A10-157-010		CAP,CER 27P-50 K SL
C50	87-A10-172-010		CAP,CER 470P-50 K Y5E
C51	87-A10-164-010		CAP,CER 100P-50 K SL<EZ,K,EEZ>
C52	87-A10-164-010		CAP,CER 100P-50 K SL<EZ,K,EEZ>
C54	87-A10-168-010		CAP,CER 220P-50 K Y5E
C56	87-010-400-080		CAP,E 0.47-50 M SME
C57	87-A10-140-010		CAP,CER 22P-50 K CH
C58	87-A10-140-010		CAP,CER 22P-50 K CH
C59	87-010-263-080		CAP,E 100-10 SME
C62	87-010-374-080		CAP,E 47-10 M SME
C63	87-010-405-080		CAP,E 10-50 M SME
C64	87-010-405-080		CAP,E 10-50 M SME
C65	87-A10-170-010		CAP,CER 330P-50 K Y5E
C66	87-A10-170-010		CAP,CER 330P-50 K Y5E
C68	87-010-401-080		CAP,E 1-50 M SME
C69	87-A10-166-010		CAP,CER 150P-50 K SL
C76	87-A10-102-080		CAP,E 1000-10 REA
C77	87-010-263-080		CAP,E 100-10 SME
C81	87-010-404-080		CAP,E 4.7-50 M SME
C82	87-010-221-080		CAP,E 470-10 M SME
C84	87-010-263-080		CAP,E 100-10 SME
C89	87-010-263-080		CAP,E 100-10 SME
CN1	86-CT4-623-010		CONN ASSY,6P CD1
CN2	88-802-082-220		CONN ASSY,8P RED
CN3	88-802-092-230		CONN ASSY,9P ORA
CN5	88-802-062-660		CONN ASSY,6P BLU
FB1	87-008-474-080		F-BEAD, BL02RN1-R62T2 EMI
FB2	87-008-372-080		FLTR,EMIBL01 RN1
FB3	87-008-372-080		FLTR,EMIBL01 RN1
X1	81-592-641-080		FLTR, 16.93MHZ
POWER C.B			
⚠F701	87-035-191-010		FUSE,3.15A 250V T 218
⚠FC701	87-A90-160-080		FUSE CLAMP,FC 51F
⚠FC702	87-A90-160-080		FUSE CLAMP,FC 51F
DEIVE C.B			
SW1	87-036-110-010		SW,PUSH SPPR 62
SW2	87-036-110-010		SW,PUSH SPPR 62
DOOR SW C.B			
SW3	87-036-292-010		SW,LEAF LSA-1135F2AU

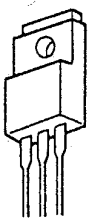
TRANSISTOR ILLUSTRATION

E C B

2SA952
2SA1296
2SA1318
2SC1815
2SC1923
2SC2001
2SC2240

ECB

2SA933S
2SC1740S
2SD1468
DTA114TS
DTA114YS
DTA143ES
DTC114TS
DTC124XS
DTC143ES

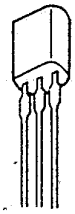


BCE

2SB1370

DSG

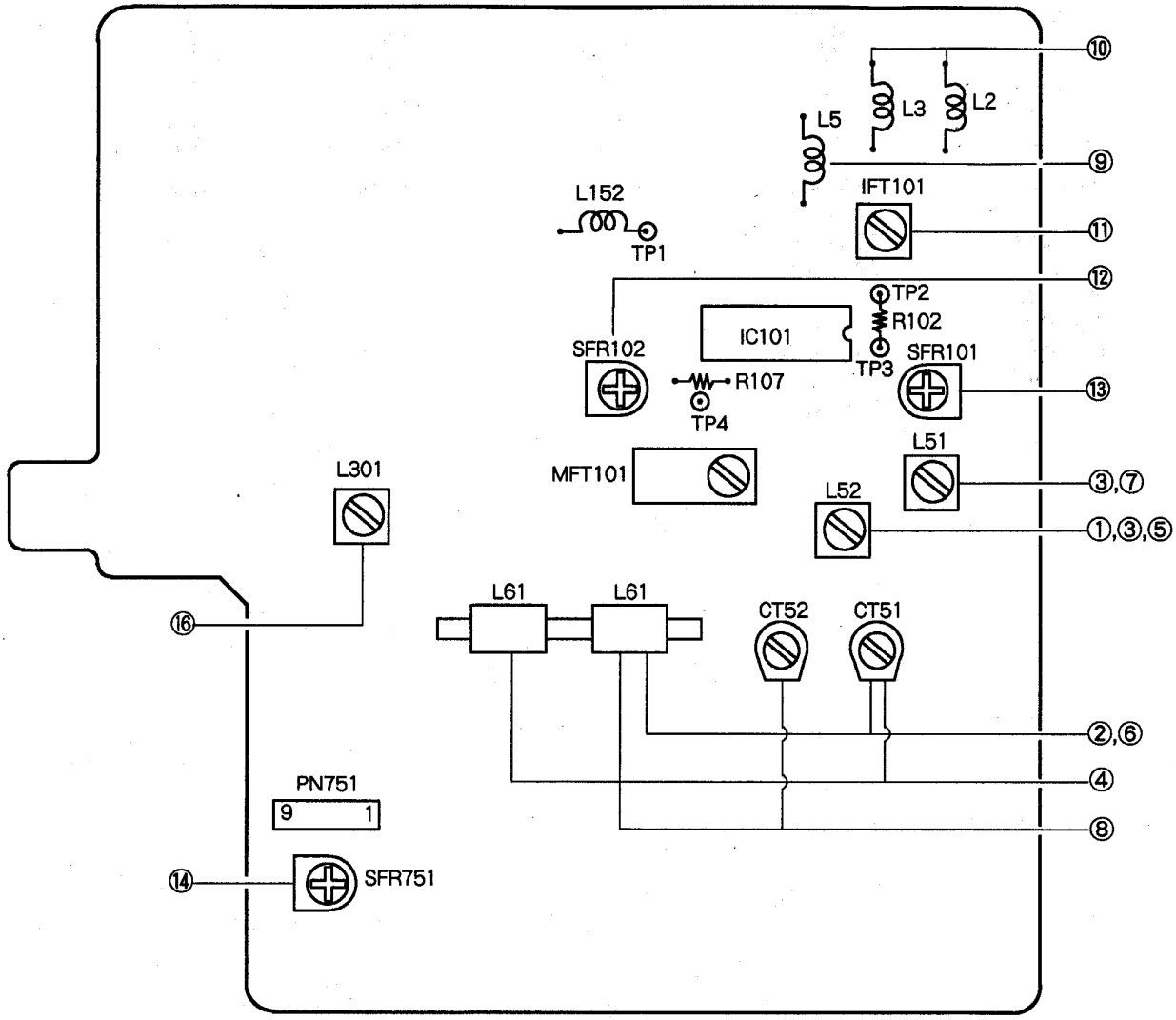
2SK161



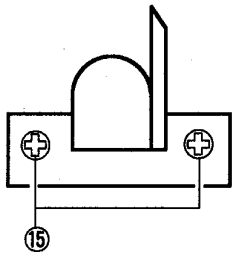
SGD

2SK246

[A] MAIN C.B



RPH (DECK1) /PH (DECK2)



< TUNER SECTION >

1. AM VT Adjustment < LH MODEL >
   Settings : • Test point : TP1
   • Adjustment location : L52
   Method : Set to AM 530 kHz adjust L52 so that the test point becomes 1.3 V ± 0.05 V.

2. AM Tracking Adjustment < LH MODEL >
   L61 ..... 600 kHz
   CT51 ..... 1400 kHz

3. MW VT Adjustment < HE, HR, K, EEZ, EZ MODELS >
   Settings : • Test point : TP1
   • Adjustment location : L51 < HE, HR >
   L52 < K, EEZ, EZ >
   Method : Set to MW 531 kHz adjust L51 < HE, HR >, L52 < K, EEZ, EZ > so that the test point becomes 1.3 V ± 0.05 V.

4. MW Tracking Adjustment < HE, HR, K, EEZ, EZ MODELS >
   L61 ..... 603 kHz
   CT51 ..... 1404 kHz

5. SW VT Adjustment < HE, HR MODELS >
   Settings : • Test point : TP1
   • Adjustment location : L52
   Method : Set to SW 3.8 MHz adjust L52 so that the test point becomes 1.4 V ± 0.3 V.

6. SW Tracking Adjustment < HE, HR MODELS >
   L61 ..... 3.8 MHz
   CT51 ..... 12.5 MHz

7. LW VT Adjustment < K, EEZ, EZ MODELS >
   Settings : • Test point : TP1
   • Adjustment location : L51
   Method : Set to LW 153 kHz adjust L51 so that the test point becomes 2.0 V ± 0.05 V.

8. LW Tracking Adjustment
   L61 ..... 153 kHz
   CT52 ..... 285 kHz

9. FM VT Adjustment
   Settings : • Test point : TP1
   • Adjustment location : L5
   Method : Set to FM 87.5 MHz adjust that the test point becomes 4.0 V ± 0.1 V.

10. FM Tracking Adjustment
    L2, 3 ..... 87.5 MHz

11. DC Balance/MONO Distortion Adjustment
    Settings : • Test point : TP2, 3
    • Adjustment location : IFT101
    • Input level : 60 dB
    Method : Set to FM 98.0 MHz and adjust IFT101 so that the voltage between TP2 and TP3 becomes 0 V ± 0.02 V.

12. AM Tuning Adjustment
    Settings : • Adjustment location : SFR102
    Method : Make setup for AM 1400 kHz < LH >, 999 kHz < HE, HR, K, EEZ, EZ >. Adjust SFR102 so that the machine performs Auto Stop when 50 ± 2 dB is input.

    * Confirm that TP4 is "L" at this time.

13. FM Tuning Adjustment
    Settings : • Adjustment location : SFR101
    Method : Make setup for FM 98.0 MHz. Adjust SFR101 so that the machine performs Auto Stop when 33 ± 2 dB is input.

    * Confirm that TP4 is "L" at this time.

< TAPE SECTION >

14. Tape Speed Adjustment (DECK1)
    Settings : • Test tape : TTA-100 (TTA-111S)
    • Adjustment location : SFR751
    Method : Play back the test tape with DECK1 and adjust SFR751 so that the output frequency is 3000 Hz. After the adjustment, check that the frequency of DECK2 is 3000 ± 45 Hz.

15. Azimuth Adjustment (DECK1, DECK2)
    Settings : • Test tape : TTA-320
    • Adjustment location : Head azimuth adjustment screw
    Method : Play back the 10 kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on each FWD PLAY and REV PLAY mode.

16. Bias OSC Frequency Adjustment
    Settings : • Test tape : TTA-601
    • Adjustment location : L301
    • Test point : TP
    Method : Set the REC mode. Adjust L301 so that the frequency counter of the test point becomes 71.5 kHz ± 0.5 kHz.

PRACTICAL SERVICE FIGURE

< RADIO SECTION >

(FM)

Frequency range :	87.5~108.0 MHz
IHF Sensitivity :	18.0 ± 5.0 dB (at 87.5 MHz)
(Distortion 3 %)	19.0 ± 5.0 dB (at 98.0, 108.0 MHz)
S/N ratio :	60 ± 5 dB (at 98.0 MHz)
Intermediate frequency :	10.7 MHz
Stereo separation :	More than 20 dB

(AM) < LH- MODEL >

Frequency range :	530~1710 kHz
Sensitivity :	50 ± 5 dB (at 600 kHz)
	45 ± 5 dB (at 1000 kHz)
	43 ± 5 dB (at 1400 kHz)
S/N ratio :	More than 30 dB (at 1000 kHz)
(Input 74 dB)	
Auto Stop Level :	55 ± 5 dB (at 600 kHz)

(MW) < HE, HR, K, EEZ, EZ MODELS >

Frequency range :	531~1602 kHz
Sensitivity :	50 ± 5 dB (at 603 kHz)
	45 ± 5 dB (at 999 kHz)
	43 ± 5 dB (at 1404 kHz)
S/N ratio :	More than 30 dB (at 999 kHz)
(Input 74 dB)	
Auto Stop Level :	Less than 57 dB (at 1404 kHz)

(SW) < HE, HR, MODELS >

Frequency range :	3.8~12.5 MHz
Sensitivity :	47 ± 5 dB (at 3.8 MHz)
	40 ± 5 dB (at 8.0 MHz)
	37 ± 5 dB (at 12.5 MHz)
S/N ratio :	More than 34 dB (at 8.0 MHz)
(Input 74 dB)	
Auto Stop Level :	60 dB (at 12.05 MHz)

(LW) < K, EEZ, EZ MODELS >

Frequency range :	153~288 kHz
Sensitivity :	59 ± 5 dB (at 153 kHz)
	56 ± 5 dB (at 207 kHz)
	51 ± 5 dB (at 288 kHz)
S/N ratio :	More than 25 dB (at 207 kHz)
(Input 80 dB)	
Auto Stop Level :	57 dB (at 207 kHz)

< TAPE RECORDER SECTION >

Recording bias frequency :	71.5 ± 0.5 kHz
Erasing ratio(W/FILTER) :	50 dB
Distortion(T, H, D 10 %) :	Less than 3.0 % (PB)
S/N ratio :	40 dB (AC/DC, PB)
	37 dB (AC, REC/PB)
Noise (PB) :	Less than 1 mV/0.6 mV
	(AC/DC, MIN)
Tape speed :	3000 ±90 Hz
Wow & flutter :	Less than 0.4% (JIS, UN WTD)
Take-up torque :	45 ± 15 g-cm
F.F & REW torque :	100^{+40}_{-45} g-cm

IC DESCRIPTION

IC, LA9240M

Pin No.	Pin Name	I/O	Description
1	FIN2	O	For the connection of the pickup photodiode. Addition to the FIN1 pin creates an RF signal and subtraction from it created an EF signal.
2	FIN1	O	For the connection of the pickup photodiode.
3	E	O	For the connection of the pickup photodiode.Subtraction from the F pin creates a TE signal.
4	F	O	For the connection of the pickup photodiode.
5	TB	I	Inputs the DC components in the TE signal.
6	TE –	O	For the connection of a resistor which sets the gain of the TE signal between this pin and the TE pin.
7	TE	O	TE signal output
8	TESI	I	TES (track error sense) comparator input. The TE signal is passed through a BPF and is input.
9	SCI	I	Shock detection input
10	TH	I	Sets the time constant for the tracking gain.
11	TA	O	TA amp output
12	TD –	I	Composes the tracking phase compensation constant between the TD and VR pins.
13	TD	O	Sets the tracking phase compensation.
14	JP	I	Sets the amplitude of the tracking jump signal (kicks pulses).
15	TO	O	Tracking control signal output
16	FD	O	Focusing control signal output
17	FD –	I	Composes the focusing phase compensation constant between the FD and FA pins.
18	FA	O	Composes the focusing phase compensation constant between the FD- and FA- pins.
19	FA –	I	Composes the focusing phase compensation constant between the FA and FE pins.
20	FE	O	FE signal output
21	FE –	I	For the connection of a resistor which sets the gain of the FE signal between this pin and the TE pin.
22	A-GND	O	Ground of analog signals.
23	SP	O	Single-ended output of the signals input to the CV+ and CV- pins.
24	SPI	I	Spindle amp input
25	SPG	I	For the connection of a resistor which sets the gain in the spindle 12cm mode.
26	SP –	I	For the connection of the spindle phase compensation constant with the SPD pin.
27	SPD	O	Spindle control signal output
28	SLEQ	I	For the connection of the sled phase compensation constant.
29	SLD	O	Sled control signal output
30	SL –	I	Sled feed signal input from the microprocessor
31	SL+		
32	JP –	I	Tracking signal input from the DSP
33	JP+		

Pin No.	Pin Name	I/O	Description
34	TGL	I	Tracking gain control signal input from the DSP. Low gain when TGL is "H".
35	TOFF	I	Tracking off control signal input from the DSP. Off when TOFF is "H".
36	TES	O	Outputs the TES signal to the DSP.
37	HFL	O	The HEL (high frequency level) signal is used to judge whether the main beam is positioned on the pit or on the mirror.
38	SLOF	I	Sled servo off control input
39	CV –	I	CLV error signal input from the DSP
40	CV+		
41	RFSM	O	RF output
42	RFS –	O	Sets the RF gain and the EFM signal's 3T componsation constant together with the RFSM pin.
43	SLC	O	The SLC (slice level control) signal is output to control the DSP's data slice level of the RF waveform.
44	SL1	I	Input to control the DSP's data slice level.
45	DGND	–	Ground of digital signals
46	FSC	O	Output for the focus search smoothing capacitor
47	TBC	I	The TBC (tracking balance control) signal sets the EF balance variation range.
48	NC	–	Not connected.
49	DEF	O	Disc defect detection output
50	CLK	I	Reference clock input. 4.23 MHz is input from the DSP.
51	CL	I	Microprocessor command clock input
52	DAT	I	Microprocessor command data input
53	CE	I	Microprocessor chip enable input
54	DRF	O	DRF (detect RF) is an outout to detect the RF level.
55	FSS	I	The FSS (focus search select) signal switches the focus search modes (± search/+searchwith respect to the reference voltage).
56	VCC2	–	VCC of servo and digital circuits
57	REF1	–	For the connection of bypass capacitor for the reference voltage
58	VR	O	Reference voltage output
59	LF2	–	Sets the time constant for disc defect detection
60	PH1	–	For the connection of a capacitor to hold the RF signal peak.
61	BH1	–	For the connection of a capacitor to hold the RF signal bottom.
62	LDD	O	APC circuit output
63	LDS	I	APC circuit input
64	VCC1	–	VCC of RF signal circuits

IC, LC78622E

Pin No.	Pin Name	I/O	Description
1	DEFI	I	Defect detection signal (DEF) input. ("L" is applied when not used.)
2	TEI	I	For PLL/Test input. A pull-down resistor is incorporated.
3	PDO	O	Phase comparison output to control the external VCO.
4	VVSS	–	Ground of the built-in VCO. Normally, 0 V.
5	ISET	I	For the connection of a resistor which adjusts the PDO output current.
6	VVDD	–	Power supply of the built-in VCO
7	FR	I	Adjusts the VCO frequency range.
8	VSS	–	Ground of digital circuits. Normally, 0 V.
9	EFMO	O	For slice level control/EFM signal output
10	EFMIN	I	EFM signal input
11	TEST2	I	Test input. A pull-down resistor is incorporated. Be sure to connect this to 0 V.
12	CLV+	O	Disc motor control tri-state outputs.
13	CLV –		
14	V/$\overline{P}$	O	Output to monitor the automatic switching between the rough servo control and phase servo control. "H":Rough servo, "L":Phase servo
15	HFL	I	Track detection signal input. Schmitt trigger input
16	TES	I	Tracking error signal input. Schmitt trigger input
17	TOFF	O	Tracking off output
18	TGL	O	Tracking gain switching output. "L" raises the gain.
19	JP+	O	Track jump control tri-state outputs
20	JP –		
21	PCK	O	Monitors the clock signal for EFM data playback. 4.3218 MHz when the phase is locked.
22	FSEQ	O	Sync signal detection output. Goes "H" when the sync signal detected from the EFM signal matches the sync signal generated internally.
23	VDD	–	Power supply of digital circuits.
24	CONT1 (SL+)	I/O	General purpose input/output 1. Controlled by the serial data command issued by the microprocessor.
25	CONT2 (SL –)	I/O	General purpose input/output 2. Controlled by the serial data command issued by the microprocessor.
26	CONT3 (DISC 1/2)	I/O	General purpose input/output 3. Controlled by the serial data command issued by the microprocessor.
27	CONT4 (PUIN1)	I/O	General purpose input/output 4. Controlled by the serial data command issued by the microprocessor.
28	CONT5 (PUIN2)	I/O	General purpose input/output 5. Controlled by the serial data command issued by the microprocessor.
29	EMPH	O	Deemphasis monitor. "H": when playing a deemphasis disc.
30	C2F	O	C2 flag output
31	DOUT	O	Outputs a digital OUT signal (EIAJ format)

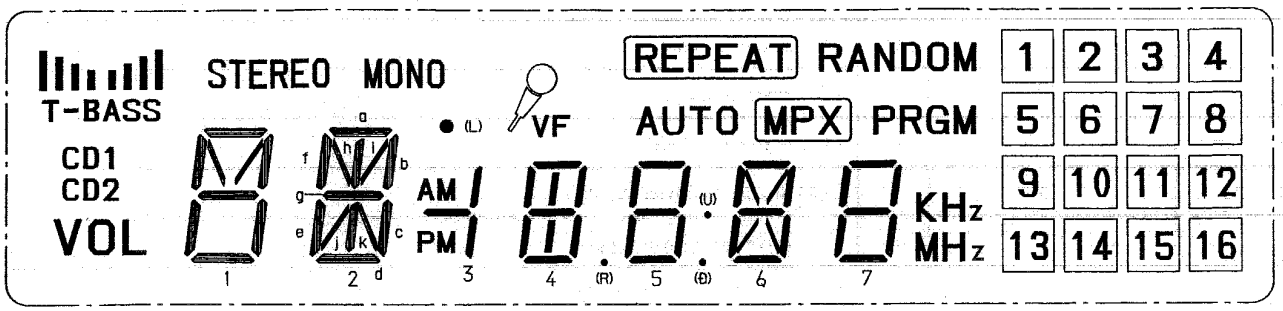
Pin No.	Pin Name	I/O	Description
32	TEST3	I	Test input. A pull-down resistor is incorporated. Be sure to connect this to 0 V.
33	TEST4		
34	N.C	–	Not used. Set to open.
35	MUTEL	O	Lch 1-bit DAC/Lch muting output.
36	LVDD	–	Lch power supply
37	LCHO	O	Lch output
38	LVSS	–	Lch ground. Normally, 0 V.
39	RVSS	–	Rch 1-bit DAC/ Rch ground. Normally, 0 V.
40	RCHO	O	Rch output
41	RVDD	–	Rch power supply
42	MUTER	O	Rch muting output
43	XVDD	–	Power supply of crystal oscillator
44	XOUT	O	For the connection of a 16.9344 MHz crystal oscillator
45	XIN	I	
46	XVSS	–	Ground of crystal oscillator. Normally, 0 V.
47	SBSY	O	Subcode block sync signal output
48	EFLG	O	C1, C2, single, duplex correction monitor
49	PW	O	Output of subcodes P, Q, R, S, T, U and W
50	SFSY	O	Subcode frame sync signal output. Falls when the subcode is set to the standby state.
51	SBCK	I	Subcode read-out clock input. Schmitt trigger input.("L" is applied when not used.)
52	FSX	O	7.35 kHz sync signal output obtained by dividing the oscillator frequency
53	WRG	O	Subcode Q standby output
54	RWC	I	Read/write control input. Schmitt trigger input
55	SQOUT	O	Subcode Q output
56	COIN	I	Command input from the microprocessor
57	$\overline{\text{CQCK}}$	I	Command input retrieval clock or subcode retrieval clock input from SQOUT. Schmitt trigger input
58	$\overline{\text{RES}}$	I	LC78622 reset input. Set to "L" when power is supplied.
59	TST11	O	Test output. Set to open (normally, "L" output)
60	16M	O	16.9344 MHz output
61	4.2M	O	4.236 MHz output
62	TEST5	I	Test input. A pull-down resistor is incorporated. Be sure to connect this to 0 V.
63	$\overline{\text{CS}}$	I	Chip select input. A pull-down resistor is incorporated.
64	TEST1	I	Test input with no pull-down resistor. Be sure to connect this to 0 V.

IC, LC867120W-5A60

Pin No.	Pin Name	I/O	Description
1	O-DATA	O	PLL shift register data output
2	O-CLK	O	PLL shift register clock output
3	$\overline{\text{O-FSTB}}$	O	Shift register data latch strobe output
4	O-MUTE	O	Main mute output
5	O-PCONT	O	Machine power supply control output
6	O-CKSFT	O	Clock shift output. Normally: L, ON: OPEN
7	$\overline{\text{RST}}$	I	Microprocessor reset
8	XT1	I	Connected to 32.768 kHz crystal
9	XT2	O	Connected to 32.768 kHz crystal
10	VSS1	–	GND
11	CF1	I	Connected to 6 MHz ceramic lock
12	CF2	O	Connected to 6 MHz ceramic lock
13	VDD1	–	Microprocessor power supply (5 V)
14	I-KEY0	I	Key A/D input
15	I-KEY1	I	Key A/D input
16	I-DOOR SW	I	CD door SW input
17	I-PU-INNER	I	CD inside limit switch input
18	I-TUDO	I	PLL IC tuner data input
19	I-MO/$\overline{\text{ST}}$	I	Tuner stereo detection
20	I-MICLEV	I	Microphone level detection
21	I-$\overline{\text{REC}}$	I	N. C
22	$\overline{\text{O-T-BASS}}$	O	T-bass circuit ON/OFF switch output (ON: L)
23	O-CDSW	O	CD block power supply control output (ON: H)
24	O-INIT	O	Initial setting output
25	$\overline{\text{O-HSP}}$	O	High speed dubbing selector output (ON: L)
26	I-HOLD	I	Hold backup mode at "H"
27	–	I	N. C
28	I-RMT	I	Remote control input
29	PAO	I	Initial setting input
30	S1	O	LCD segment output
31~40	S2~S11	O	LCD segment output and initial setting output at the same time
41	VDD3	–	Microprocessor power supply
42	VSS3	–	GND

Pin No.	Pin Name	I/O	Description
43	S12	O	LCD segment output
44	S13	O	LCD segment output
45~60	S16~S31	O	LCD segment output
61	V3	–	LCD drive bias power supply
62	V2	–	LCD drive bias power supply
63	V1	–	LCD drive bias power supply
64	COM0	O	LCD common output
65	COM1	O	LCD common output
66	COM2	O	LCD common output
67	COM3	O	N. C
68	VSS2	–	GND
69	VDD2	–	Microprocessor power supply (5 V)
70	I/O BUS0	I/O	CD IC control data bus input/output
71	I/O BUS1	I/O	CD IC control data bus input/output
72	I/O BUS2	I/O	CD IC control data bus input/output
73	I/O BUS3	I/O	CD IC control data bus input/output
74	$\overline{\text{O-CCE}}$	O	CD IC control chip enable output
75	O-BUCK	O	CD IC control data bus clock output
76	O-CDMUTE	–	N. C
77	–	–	N. C
78	–	–	N. C
79	O-CE	O	PLL chip enable output
80	O-MSTB	O	Shift register (MAIN C. B.) data latch strobe output.

FL DISPLAY

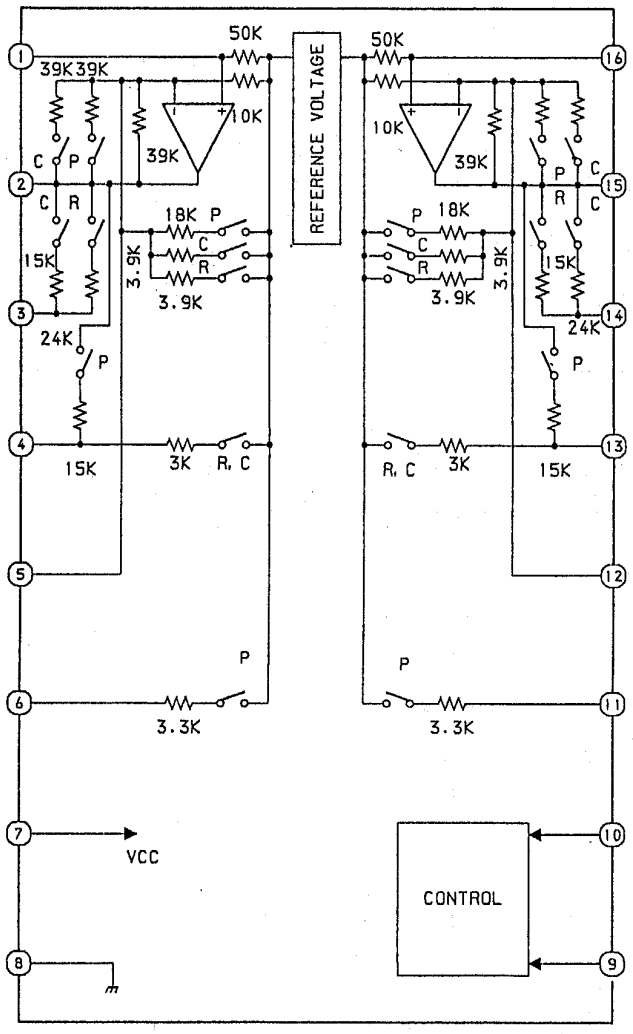


NC.	COM.1	COM.2	COM.3	COM.4
1	COM.1			
2		COM.2		
3			COM.3	
4				COM.4
5	T-BASS	CD1	CD2	VOL
6	1a	1h	1f	1e
7	STEREO	1b	1g	1d
8	2a	2f	2e	1c
9	2h	2g	2j	2d
10	2i	2b	2c	2m
11	AM	3b, 3c	3g	PM
12		4f	4g	4e
13	•(L)	4a	4l, 4k	4d
14	MONO	4b	4c	•(R)
15	5f	5g	5e	5d
16	5b	•(U)	5c	•(D)
17	5a	6f	6g	6e
18	VF	6a	6h, 6j	6d
19	AUTO	6b	6c	7e
20	REPEAT	7f	7g	7d
21	MPX	7a	7b	7c
22	RANDOM	PRGM	KHZ	MHZ
23	1	5	9	13
24	2	6	10	14
25	3	7	11	15
26	4	8	12	16

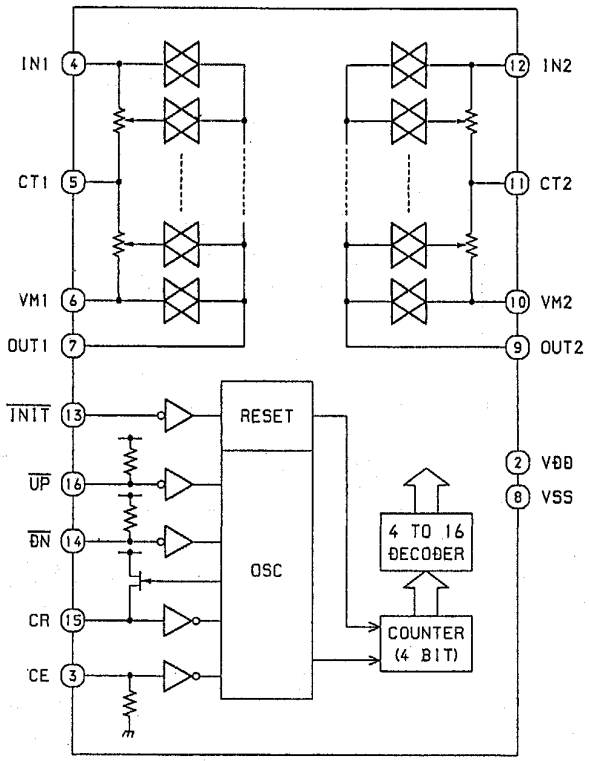
(L) : LEFT
(R) : RIGHT
(U) : UPPER
(D) : DOWN

IC BLOCK DIAGRAM

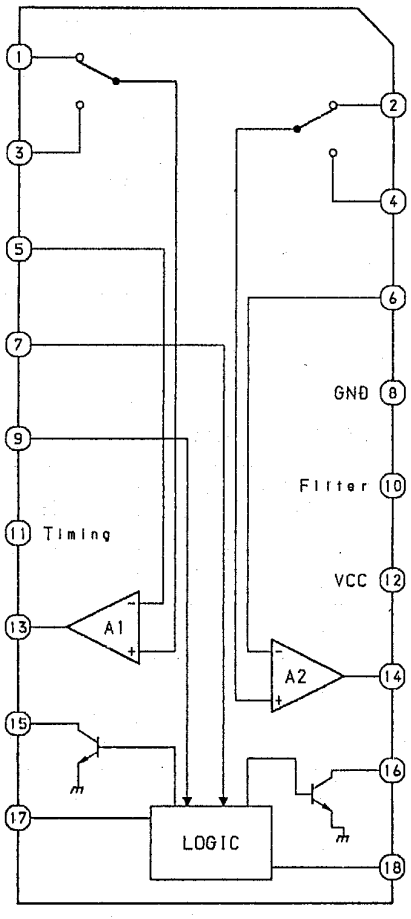
IC, M62412P



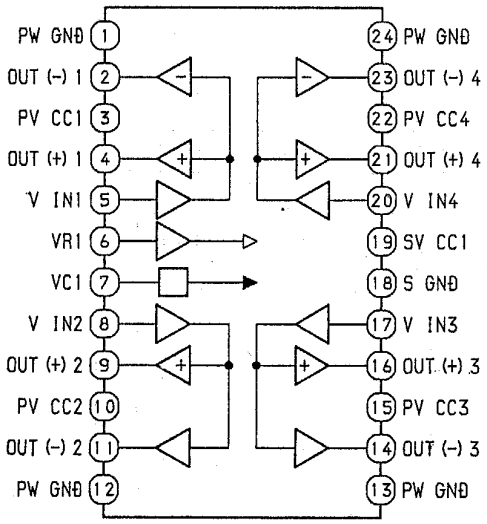
IC, LC7533



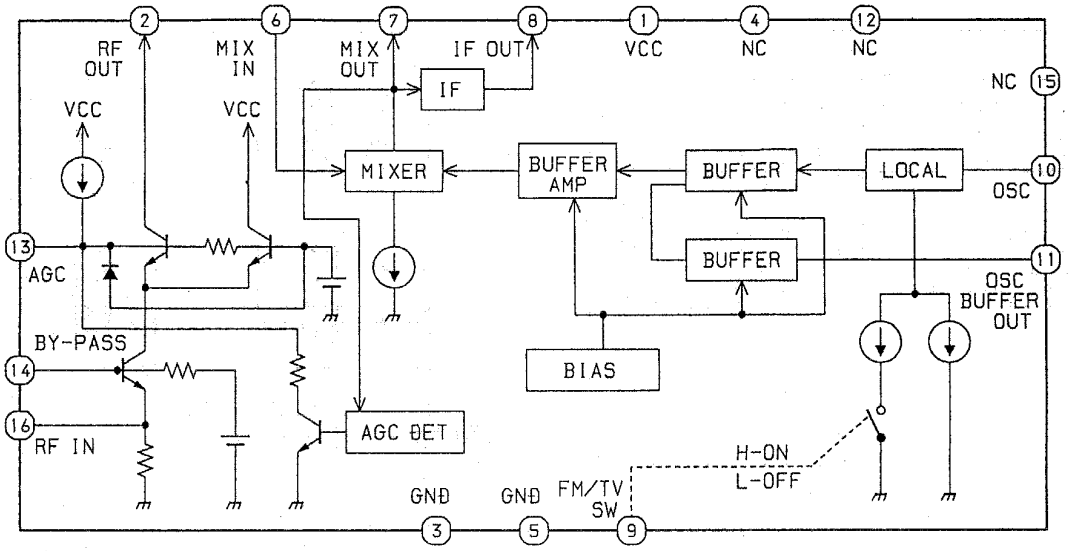
IC, BA34168L



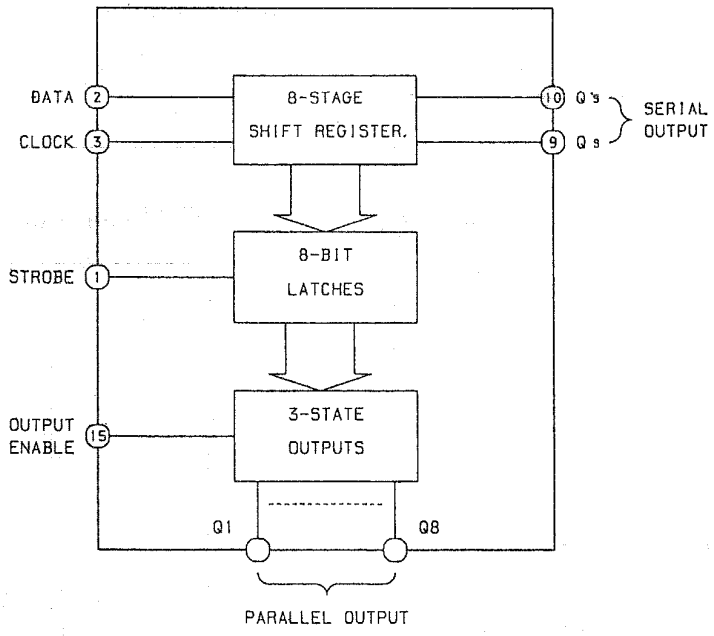
IC, TA2092



IC, TA8176SN/F



IC, BU4094BF



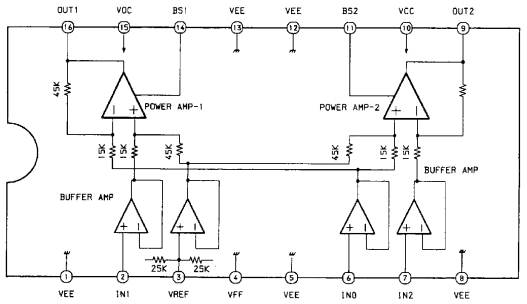
TRUTH TABLE

CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	Qs	Q's
↑	L	X	X	Z	Z	Q7	NO Chg.
↓	L	X	X	Z	Z	No Chg.	Qs
↑	H	L	X	No Chg.	No Chg.	Q7	No Chg.
↑	H	H	L	L	Qn-1	Q7	No Chg.
↑	H	H	H	H	Qn-1	Q7	No Chg.
↓	H	X	X	No Chg.	No Chg.	No Chg.	Qs

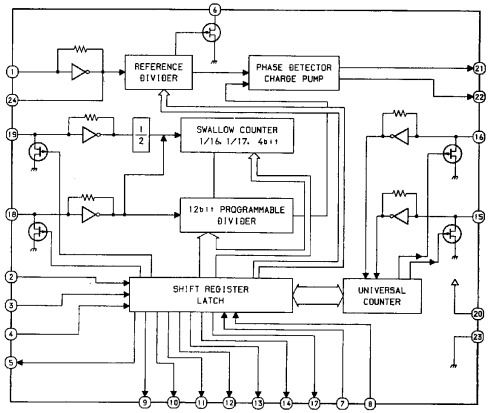
Z=High Impedance

X=Don't Care

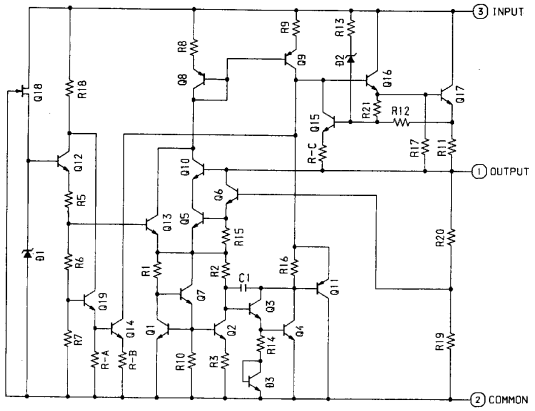
IC, TA8102P



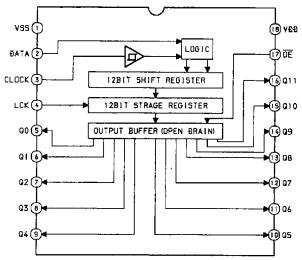
IC, LC7218



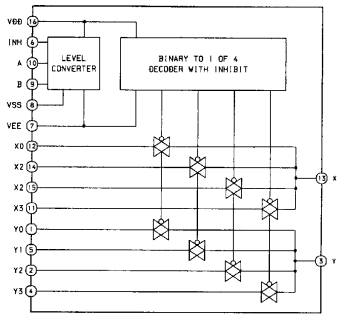
IC, NJM78M05FA



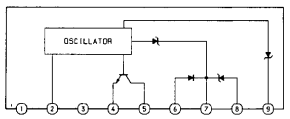
IC, BU2092F



IC, BU4052BF



IC, TA8126S

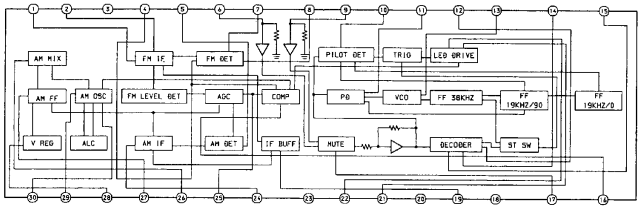


TRUTH TABLE

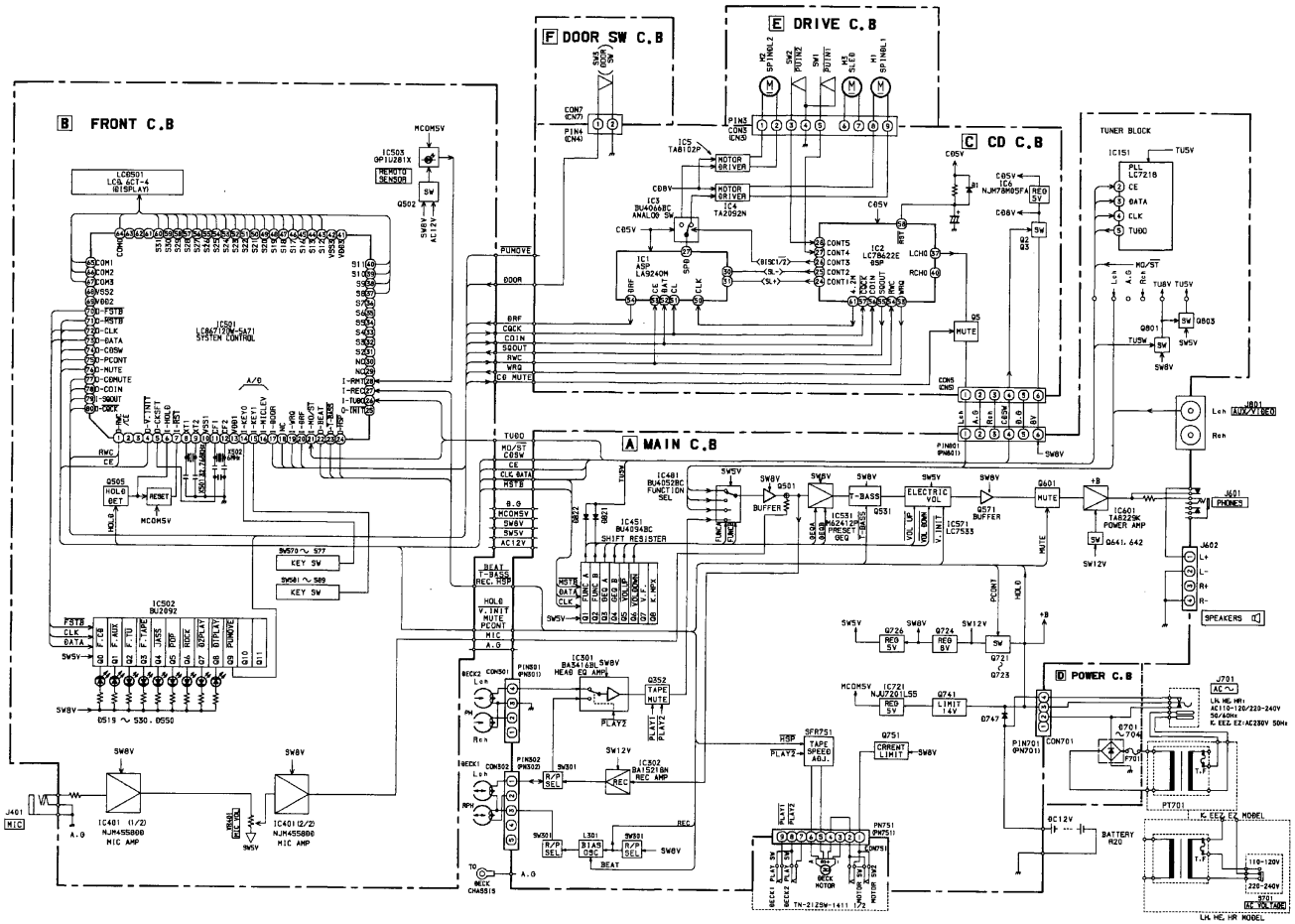
INHIBIT	A	B	NO SWITCH
L	L	L	X0 Y0
L	H	L	X1 Y1
L	L	H	X2 Y2
L	H	H	X3 Y3
H	X	X	NONE

X:DON'T CARE.

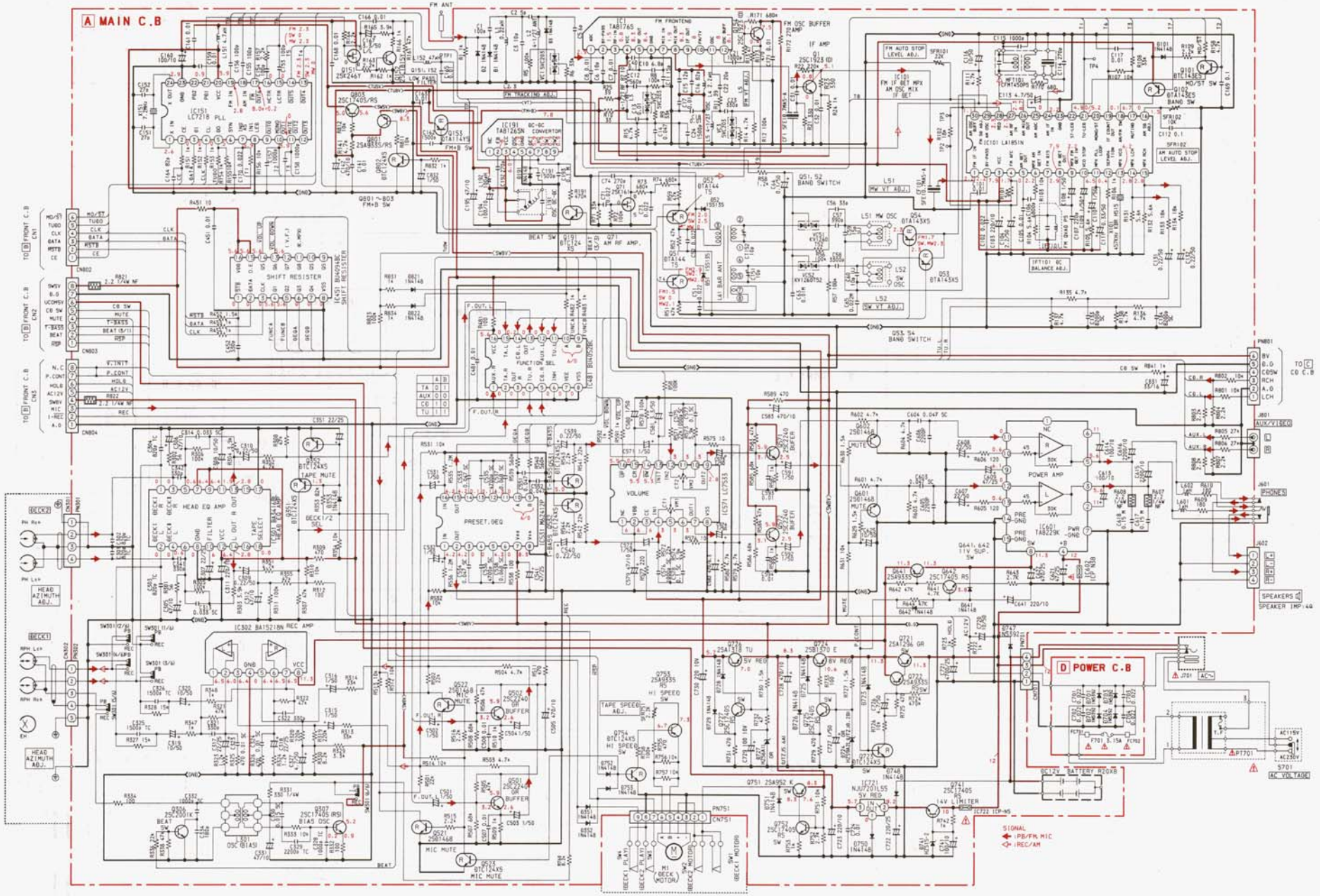
IC, LA1851N

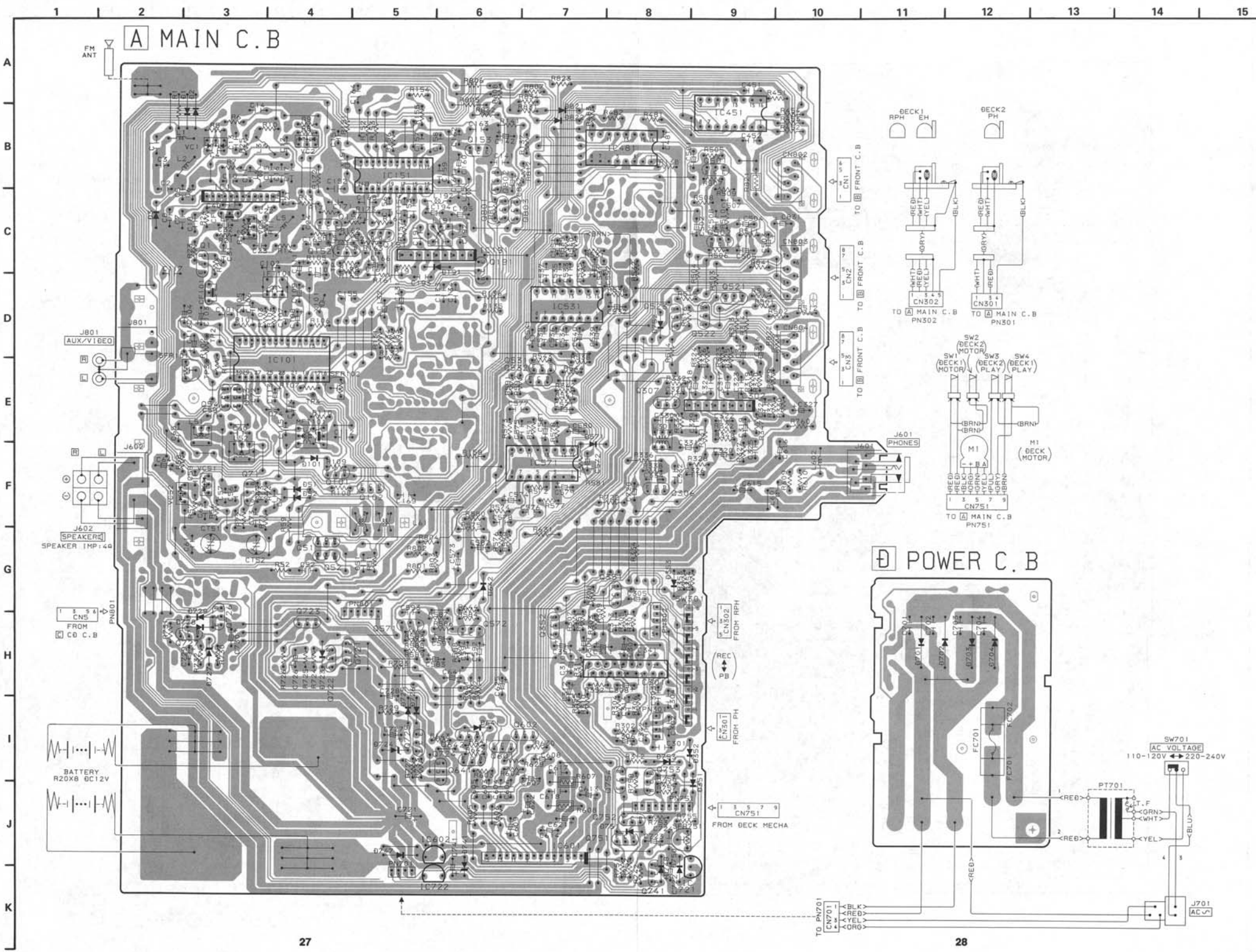


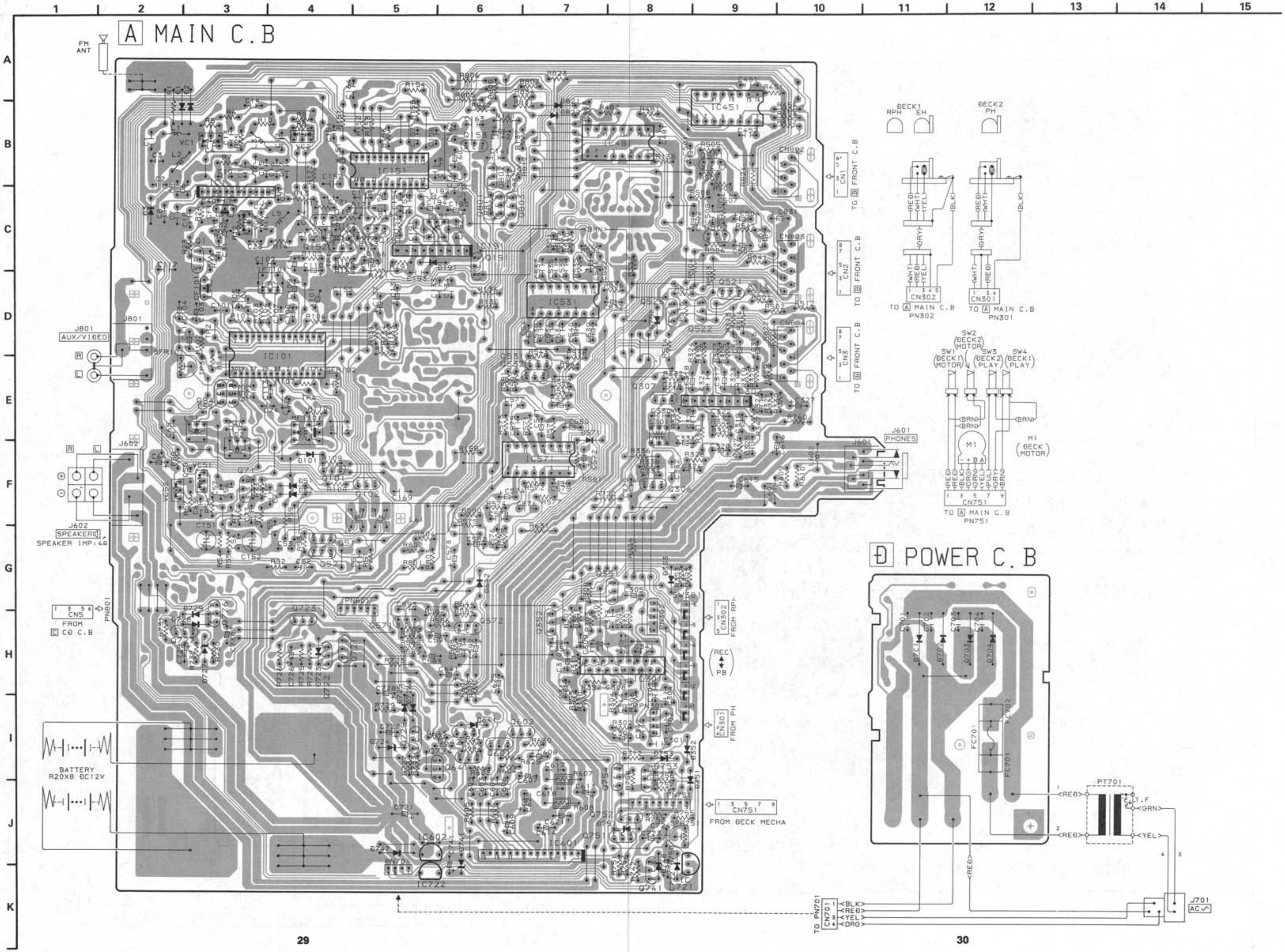
BLOCK DIAGRAM



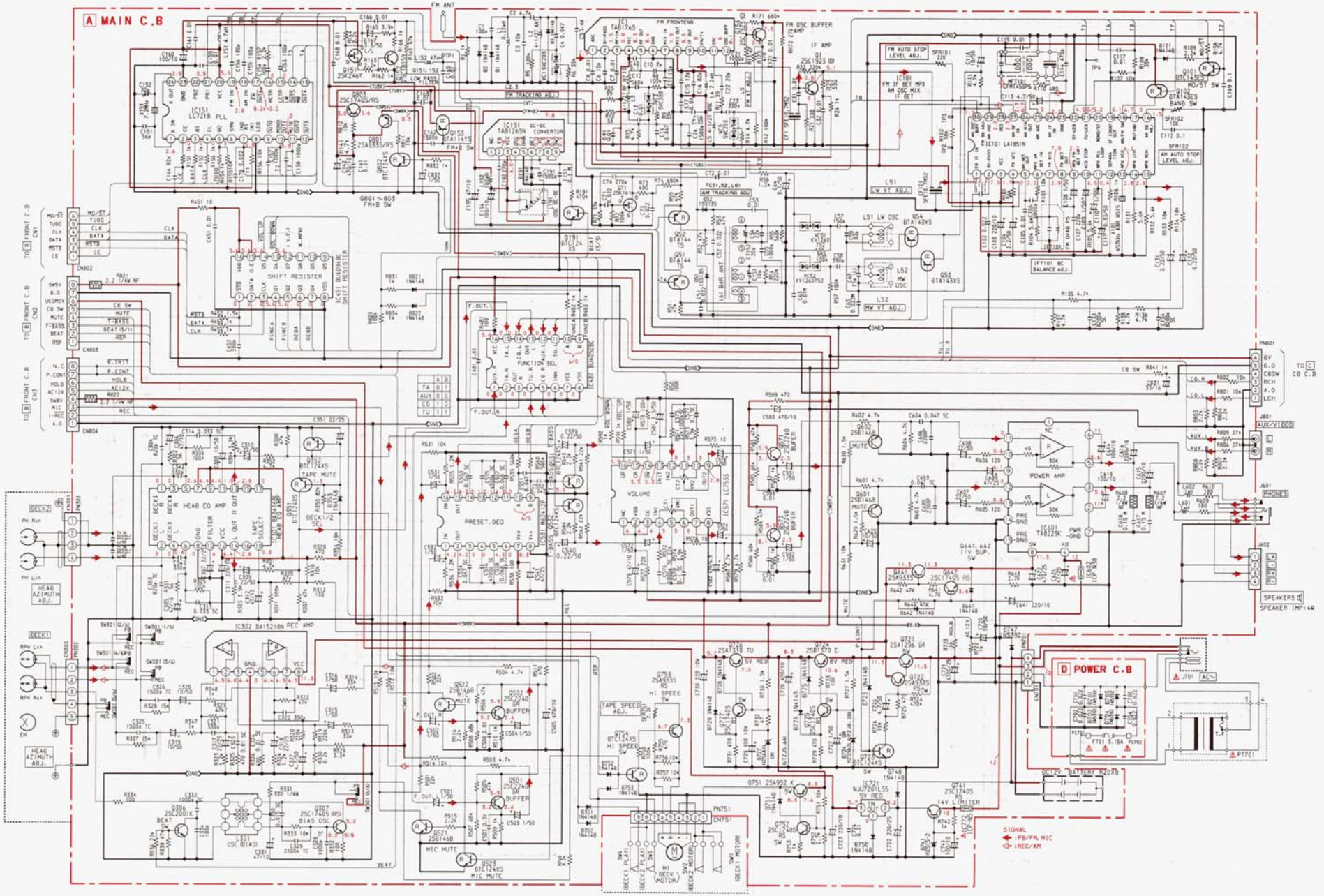
SCHEMATIC DIAGRAM – 1 (MAIN SECTION : HE, HR)



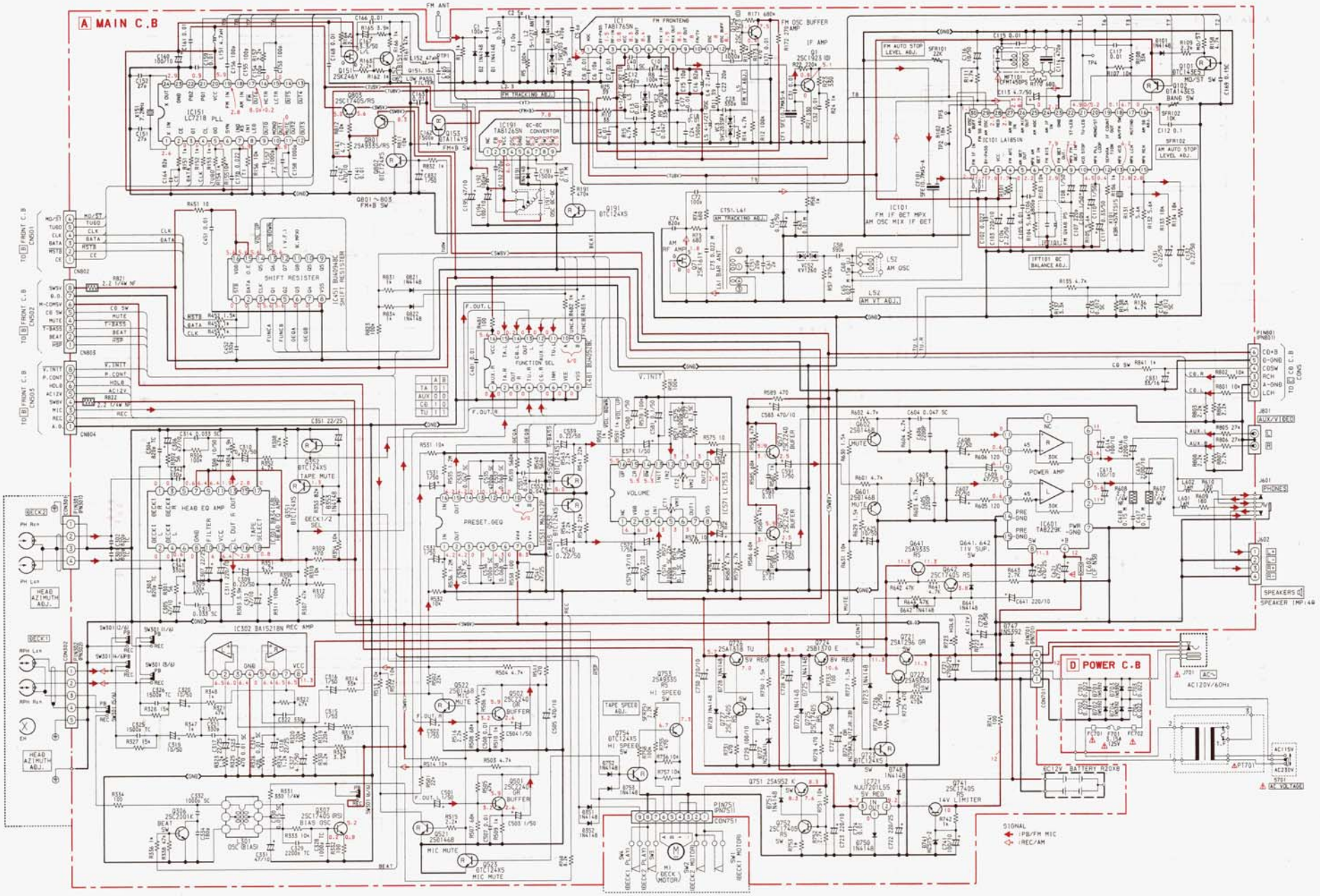

A MAIN C.B
FM ANT
J801 AUX/VIDEO
J602 SPEAKER
SPEAKER IMP:4Ω
J601 PHONES
CN5 FROM C CD C.B
PN601
BATTERY R20X8 DC12V
CN302 FROM RPH
CN301 FROM PH
CN751 FROM DECK MECHA
(REC PB)
CN1 TO B FRONT C.B
CN2 TO B FRONT C.B
CN3 TO B FRONT C.B
DECK1 RPH EH
DECK2 PH
CN302 TO A MAIN C.B PN302
CN301 TO A MAIN C.B PN301
SW1 (DECK1 MOTOR)
SW2 (DECK2 MOTOR)
SW3 (DECK2 PLAY)
SW4 (DECK1 PLAY)
M1 (DECK MOTOR)
CN751 TO A MAIN C.B PN751
D POWER C.B
SW701 AC VOLTAGE 110-120V 220-240V
PT701
J701 AC IN
CN701 TO PN701
IC101
IC151
IC451
IC481
IC531
IC722


A MAIN C.B
FM ANT
J801 AUX/VIDEO
J602 SPEAKER
SPEAKER IMP:4Ω
CN5 FROM C CD C.B
PN801
BATTERY R20X8 DC12V
TO B FRONT C.B CN1
TO B FRONT C.B CN2
TO B FRONT C.B CN3
DECK1 RPH EH
DECK2 PH
CN302 TO A MAIN C.B PN302
CN301 TO A MAIN C.B PN301
SW1 (DECK1 MOTOR)
SW2 (DECK2 MOTOR)
SW3 (DECK2 PLAY)
SW4 (DECK1 PLAY)
M1 (DECK MOTOR)
CN751 TO A MAIN C.B PN751
J601 PHONES
CN302 FROM RPH
(REC PB)
CN301 FROM PH
CN751 FROM DECK MECHA
D POWER C.B
PT701
J701 AC
CN701 TO PN701

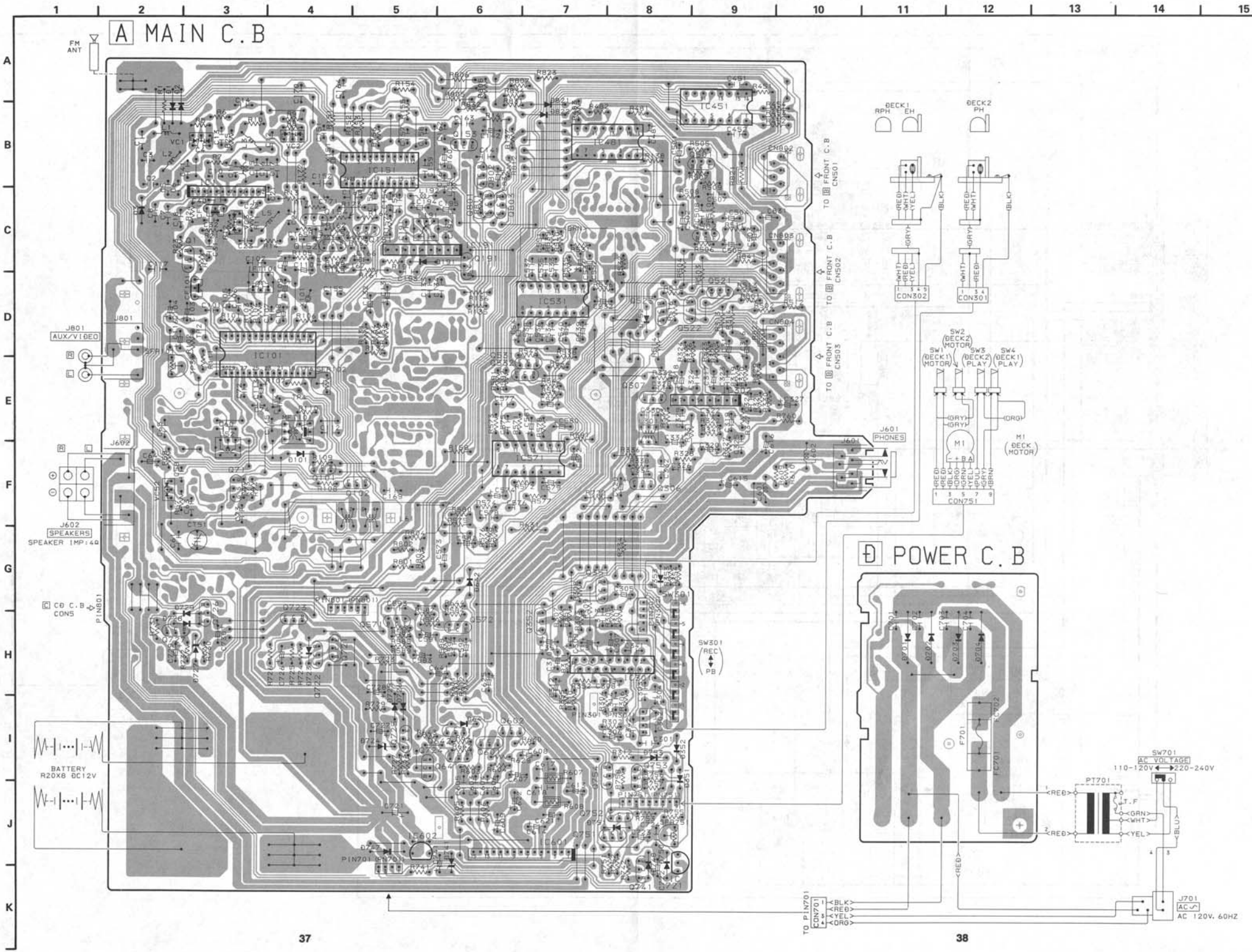
SCHEMATIC DIAGRAM – 2 (MAIN SECTION : K, EEZ, EZ)



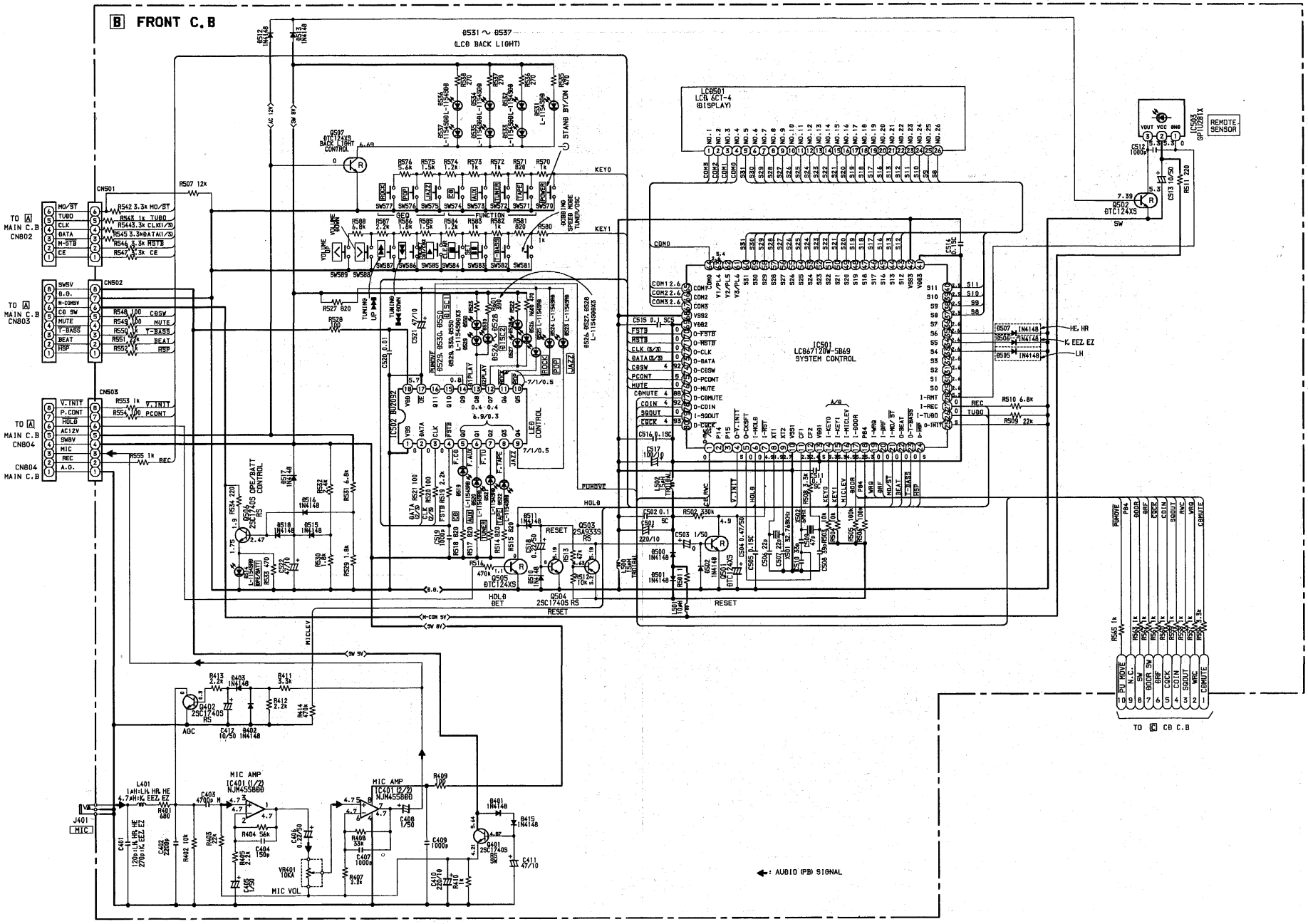
SCHEMATIC DIAGRAM – 3 (MAIN SECTION : LH)

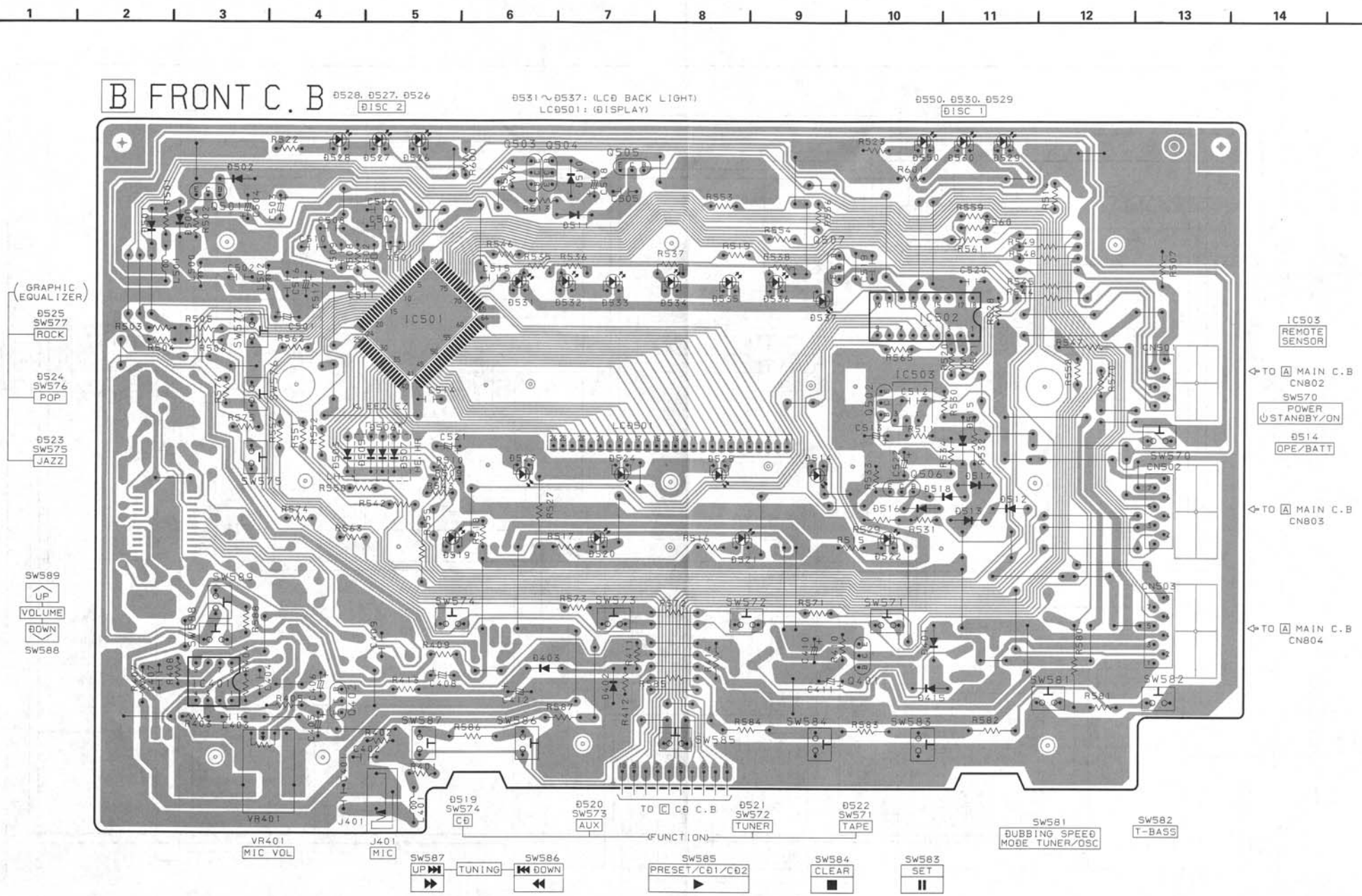


WIRING – 3 (MAIN SECTION : LH)

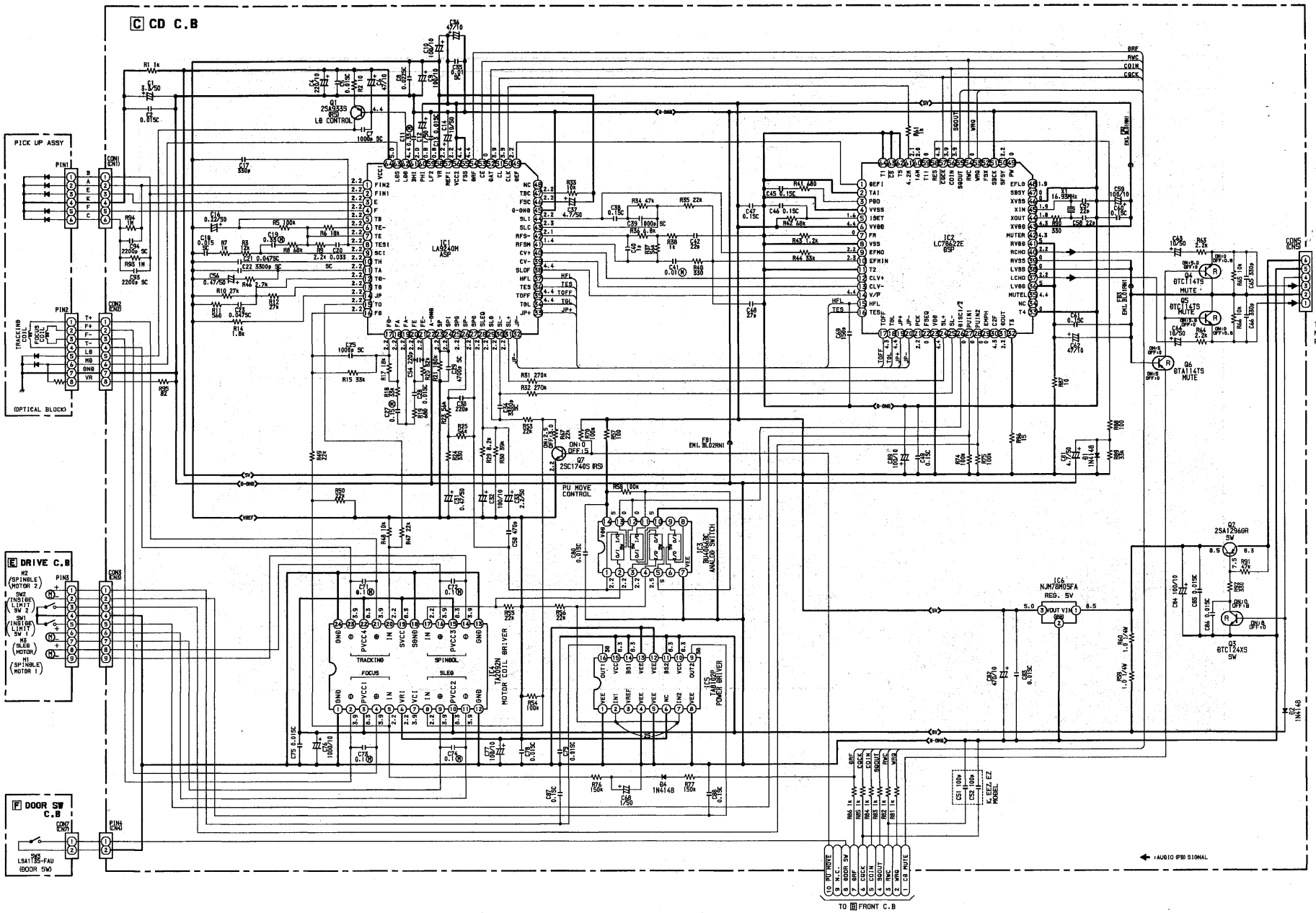


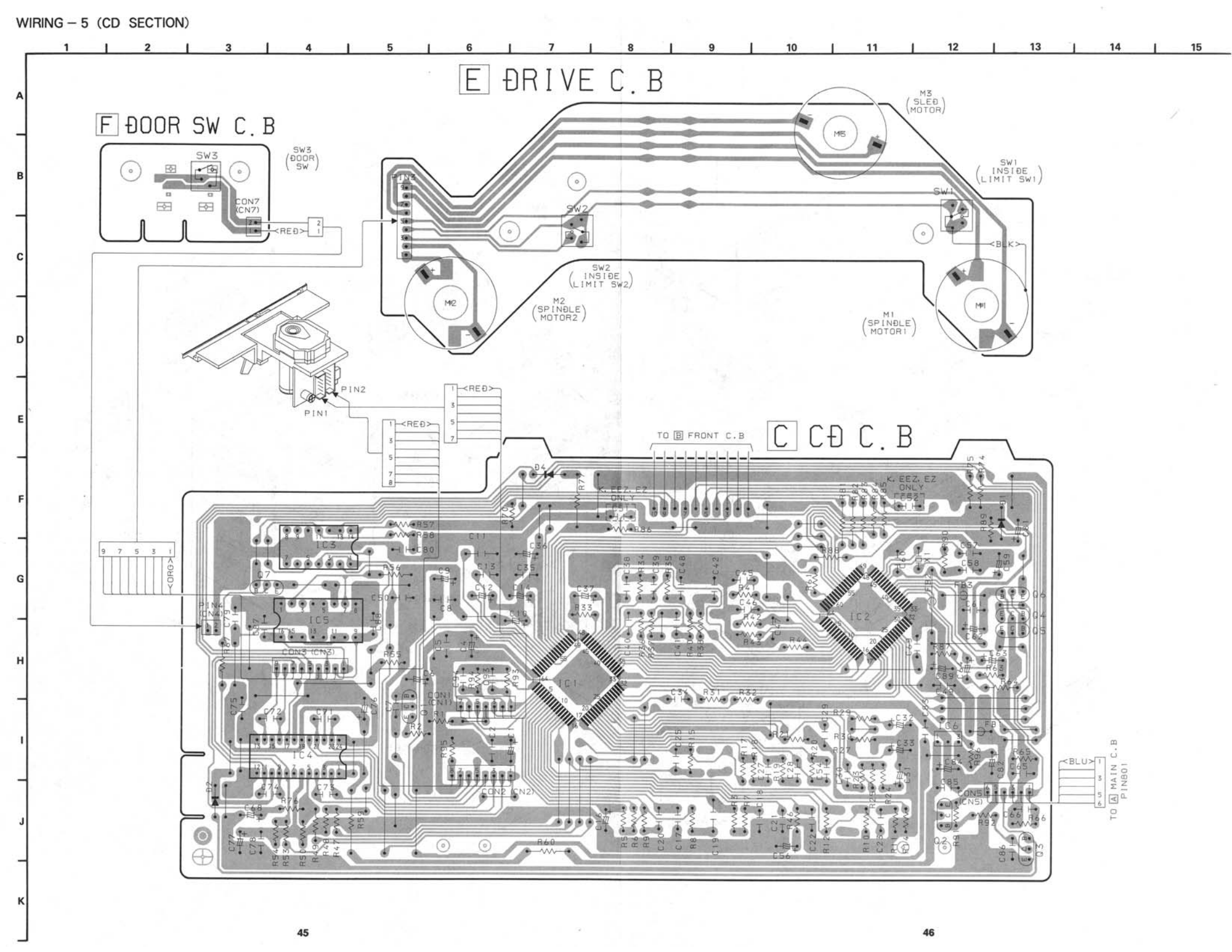
SCHEMATIC DIAGRAM – 4 (FRONT SECTION)



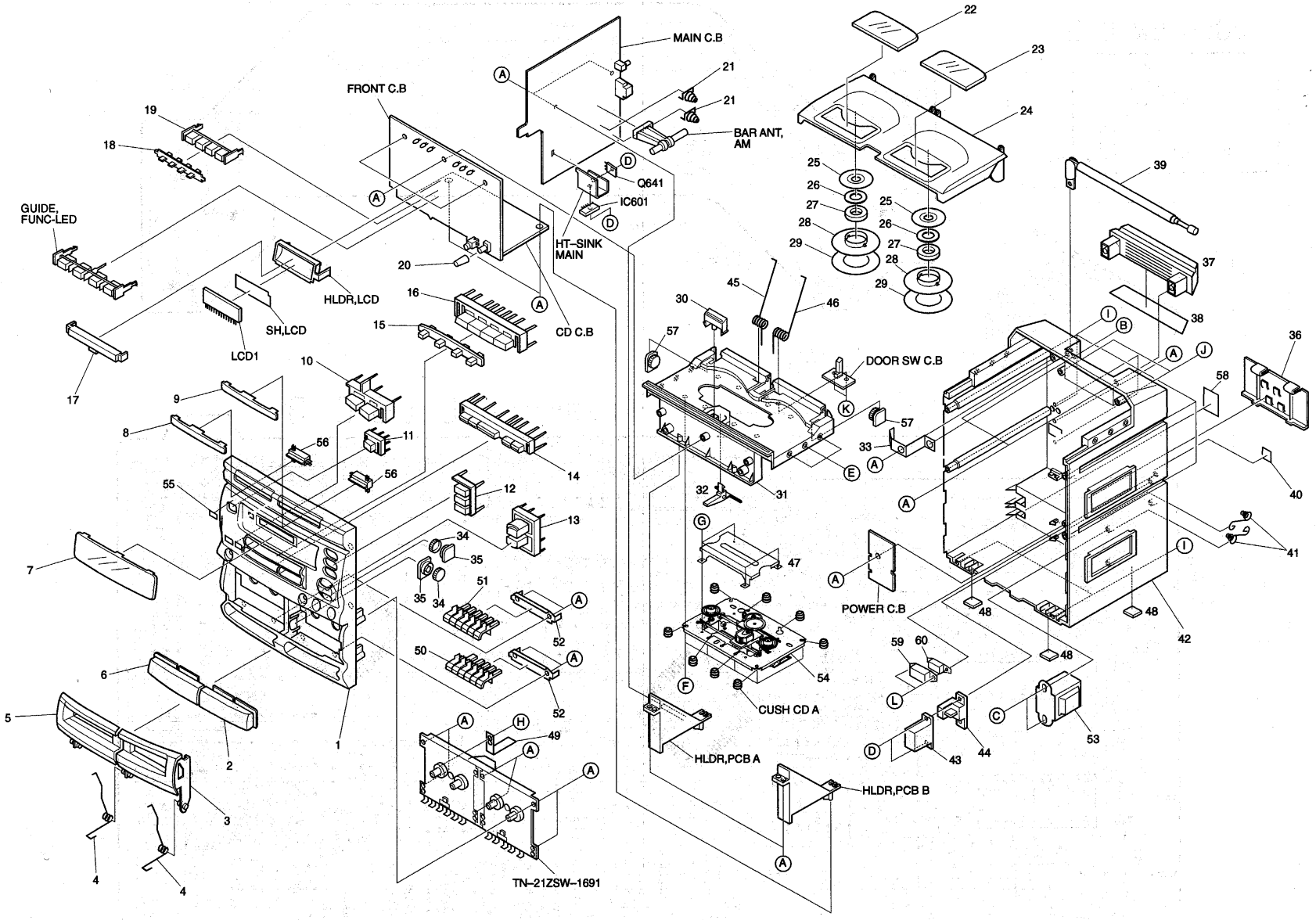

B FRONT C. B
D528. D527. D526
DISC 2
D531 ~ D537: (LCD BACK LIGHT)
LCD501: (DISPLAY)
D550. D530. D529
DISC 1
IC501
IC502
IC503
LCD501
IC503
REMOTE
SENSOR
TO A MAIN C.B
CN802
SW570
POWER
STANDBY/ON
D514
OPE/BATT
SW570
CN502
TO A MAIN C.B
CN803
CN503
TO A MAIN C.B
CN804
GRAPHIC
EQUALIZER
D525
SW577
ROCK
D524
SW576
POP
D523
SW575
JAZZ
SW589
UP
VOLUME
DOWN
SW588
TO C CD C.B
D519
SW574
CD
D520
SW573
AUX
D521
SW572
TUNER
D522
SW571
TAPE
FUNCTION
SW581
DUBBING SPEED
MODE TUNER/OSC
SW582
T-BASS
VR401
MIC VOL
J401
MIC
SW587
UP
TUNING
SW586
DOWN
SW585
PRESET/CD1/CD2
SW584
CLEAR
SW583
SET

SCHEMATIC DIAGRAM – 5 (CD SECTION)




E DRIVE C.B
F DOOR SW C.B
C CD C.B
SW3
SW3 (DOOR SW)
CON7 (CN7)
<RED>
SW2
SW2 INSIDE (LIMIT SW2)
M2 (SPINDLE MOTOR2)
M3 (SLED MOTOR)
SW1 INSIDE (LIMIT SW1)
SW1
<BLK>
M1 (SPINDLE MOTOR1)
PIN2
PIN1
TO B FRONT C.B
<ORG>
CON4 (CN4)
CON3 (CN3)
CON1 (CN1)
CON2 (CN2)
CON5 (CN5)
<BLUE>
TO A MAIN C.B PIN801
IC1
IC2
IC3
IC4
IC5
IC6
K, EE2, EZ ONLY
KE87 ONLY

MECHANICAL EXPLODED VIEW 1/1

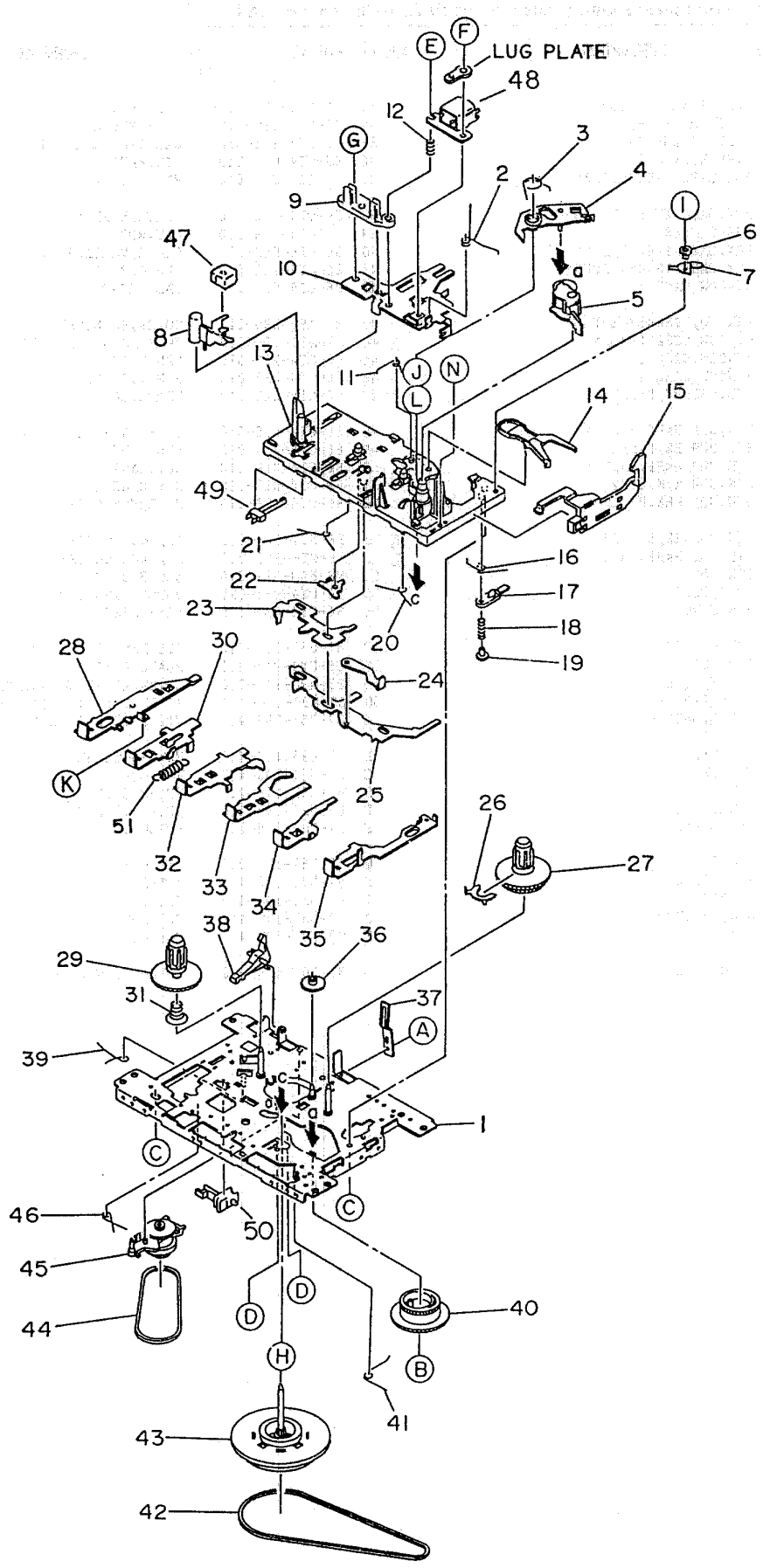


MECHANICAL PARTS LIST 1／1

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.	カンリ NO.	DESCRIPTION
1	86-CT4-001-210		CABI,FR<EZ,K,EEZ>
1	86-CT4-054-110		CABI,FR HR<HE,HR>
1	86-CT4-051-110		CABI,FR LH<LH>
2	86-CT4-011-010		WINDOW,CASS 2
3	86-CT4-007-010		BOX,CASS 2<EZ,K,EEZ>
3	86-CT4-039-010		BOX,CASS 2H<HE,HR,LH>
4	86-CT4-209-010		SPR-T,CASS
5	86-CT4-006-010		BOX,CASS 1<EZ,K,EEZ>
5	86-CT4-038-010		BOX,CASS 1H<HE,HR,LH>
6	86-CT4-010-010		WINDOW,CASS 1
7	86-CT4-016-010		WINDOW,DISP<EXCEPT LH>
7	86-CT4-037-010		WINDOW,DISP LH<LH>
8	86-CT4-012-010		WINDOW,DISC 1
9	86-CT4-013-010		WINDOW,DISC 2
10	86-CT4-026-010		BTN,DSL<EZ,K,EEZ>
10	86-CT4-046-010		BTN,DSL H<HE,HR,LH>
11	86-CT4-025-010		BTN,PWR<EZ,K,EEZ>
11	86-CT4-045-010		BTN,PWR H<HE,HR,LH>
12	86-CT4-028-010		BTN,EQ<EZ,K,EEZ>
12	86-CT4-048-010		BTN,EQ H<HE,HR,LH>
13	86-CT4-029-010		BTN,VOL<EZ,K,EEZ>
13	86-CT4-049-010		BTN,VOL H<HE,HR,LH>
14	86-CT4-024-010		BTN,CONT
15	86-CT4-031-010		LENS,FUNC
16	86-CT4-023-110		BTN,FUNC
17	86-CT4-207-010		COVER, LED
18	86-CT4-032-010		LENS,EQ
19	86-CT4-206-010		GUIDE,EQ-LED
20	86-CT4-030-010		KNOB,RTRY MIC
21	86-CT4-213-010		SPR-C,BATT B
22	86-CT4-014-010		WINDOW,CD 1
23	86-CT4-015-010		WINDOW,CD 2
24	86-CT4-008-010		BOX,CD
25	86-CT4-222-010		HLDR,CHUCK A
26	86-CT4-224-010		PLATE,MAGNET
27	87-036-368-010		MAGNET,
28	86-CT4-223-010		HLDR,CHUCK B
29	86-CT4-225-110		CUSHION,CHUCK
30	86-CT4-019-010		BTN,CD-OPEN
31	86-CT4-003-010		CHAS,CD
32	86-CT4-217-010		LEVER,EJECT
33	86-CT4-203-010		HLDR,ANT
34	86-CT4-220-010		OIL-DMPR,GEAR
35	86-CT4-221-010		OIL-DMPR,BRACKET
36	86-CT4-004-010		LID,BATT
37	86-CT4-005-010		HANDL,GRIP
38	86-CT4-216-110		PLATE,HANDLE
39	86-CT4-616-010		ANT,ROD
40	86-CT4-043-010		PLATE,VOLTAGE<EZ,K,EEZ>
41	86-CT4-212-010		SPR-C,BATT A
42	86-CT4-002-110		CABI,REAR
43	87-A90-086-010		COVER,AC-SOCKET
⚠ 44	87-A60-178-010		JACK,AC E BLK W/SW
45	86-CT4-210-010		SPR-T,CD 1
46	86-CT4-227-010		SPR-T,CD 2A
47	86-CT4-041-010		PANEL,CD
48	86-CT4-218-010		CUSHION,FOOT/PORON
49	86-CT4-214-010		SPR-P,REC
50	86-CT4-018-010		KEY,CASS 2
51	86-CT4-017-010		KEY,CASS 1
52	86-CT4-208-010		HLDR,KEY-CASS
⚠ 53	86-CT4-613-010		PT,E<EZ,K,EEZ>
⚠ 53	86-CT4-614-010		PT,H<HE,HR,LH>
54	M8-5ZG-392-070		5ZG-3 D1NC
55	86-CT4-035-010		BADGE,AIWA 30N
56	86-CT4-033-010		LENS,DISC
57	87-063-165-010		OIL-DMPR,150
58	86-CT4-215-010		PLATE,BATT
59	87-A90-147-010		COVER,AC SELSW<HE,HR,LH>
⚠ 60	87-A90-146-010		SW,SL 1-1-2<HE,HR,LH>
A	87-751-097-410		VT2+3-12 W/O SLOT
B	87-493-100-410		VWWS+3-16 BLK
C	87-661-100-410		VFT1+3-16
D	87-651-075-410		VT1+2.6-10
E	87-623-097-410		QT1+3-12 BLK
F	81-CD5-204-110		SCREW,CD
G	87-067-520-010		VFTT+2-6
H	87-571-032-410		VIT+2-3
I	87-651-104-410		VT1+3-30
J	87-651-100-410		VT1+3-16
K	87-661-097-410		VFT1+3-12
L	87-067-579-010		BVT2+3-8 W/O SLOT

TAPE MECHANISM EXPLODED VIEW 1/2

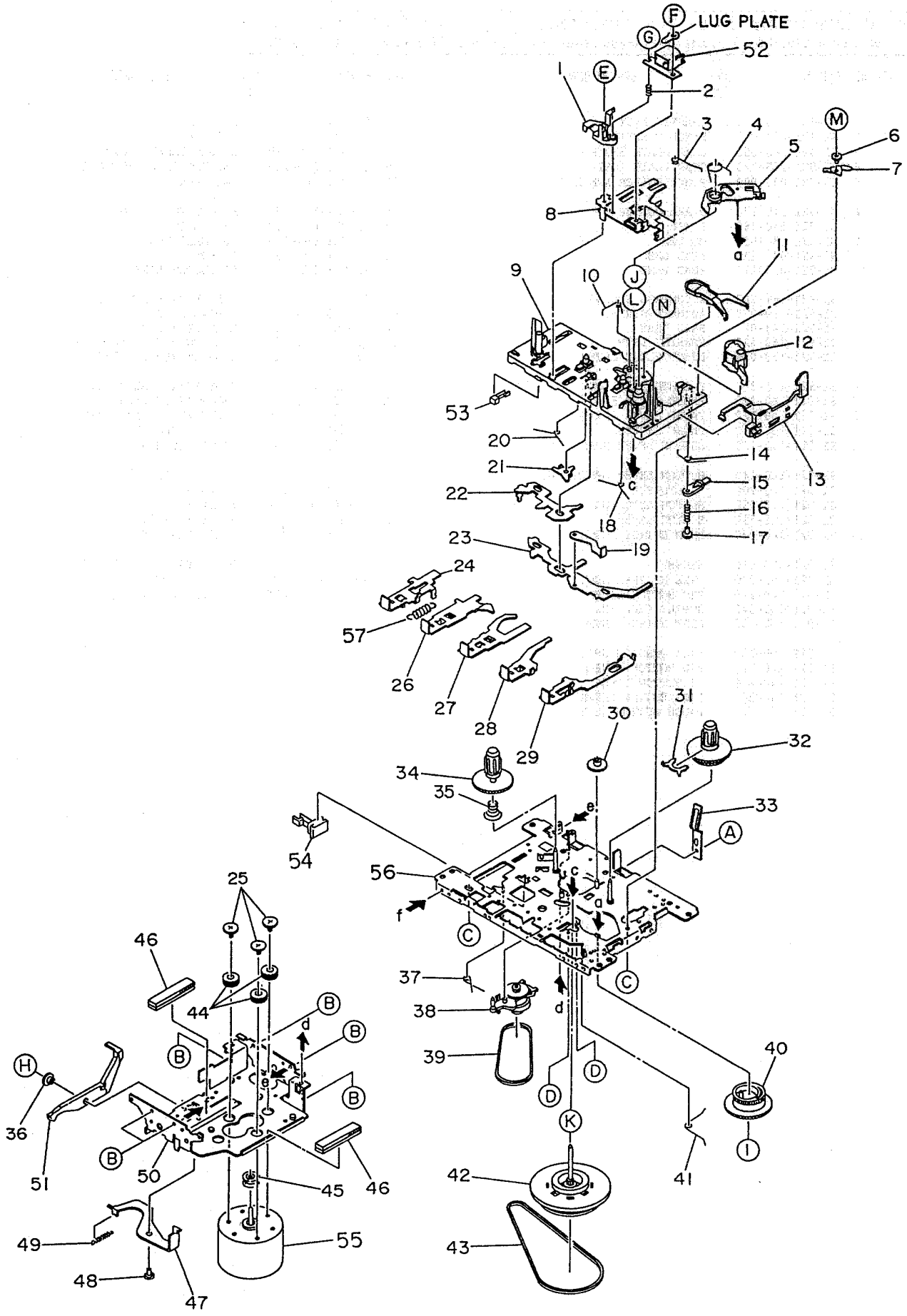


TAPE MECHANISM PARTS LIST 1／2

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
1	S1-921-015-010		CHASSIS ASSY
2	S1-921-030-030		PANEL P SPRING
3	S1-921-260-050		GEAR PLATE SPRING
4	S1-921-265-020		GEAR PLATE ASSY
5	S1-921-043-090		PINCH ROLLER ARM ASSY
6	S1-921-140-370		P ARM COLLER
7	S1-921-140-340		P ARM
8	S1-921-030-050		MG ARM
9	S1-921-030-4A0		HEAD BASE
10	S1-921-030-110		HEAD PANEL
11	S1-921-141-8A0		M CONTROL SPRING
12	S1-821-030-070		AZIMUTH SPRING
13	S1-921-143-010		BASE ASSY
14	S1-921-260-4A0		SENSING LEVER
15	S1-921-130-020		EJECT SLIDE LEVER
16	S1-921-141-3A0		P CONTROL SPRING
17	S1-921-140-820		PAUSE LEVER(F)
18	S1-921-140-120		PAUSE LEVER SPRING
19	S1-921-140-110		PAUSE STOPPER
20	S1-921-140-150		BUTTON LEVER SPRING(B)
21	S1-921-140-140		BUTTON LEVER SPRING(A)
22	S1-921-140-200		PR STOPPER
23	S1-921-140-090		SWITCH ACTUATOR
24	S1-821-011-590		E KICK LEVER
25	S1-921-140-080		PUSH BUTTON ACTUATOR
26	S1-921-050-060		SENSER
27	S1-921-053-030		TAKE UP REEL ASSY
28	S1-921-140-220		REC BUTTON LEVER
29	S1-921-053-040		SUPPLY REEL ASSY
30	S1-921-140-230		PLAY BUTTON LEVER
31	S1-829-100-100		BACK TENSION SPRING
32	S1-921-140-240		REW BUTTON LEVER
33	S1-921-140-250		FF BUTTON LEVER
34	S1-921-140-260		STOP BUTTON LEVER
35	S1-921-140-610		PAUSE BUTTON LEVER
36	S1-821-100-700		FF GEAR
37	S1-829-100-010		PACK SPRING
38	S1-821-100-690		RECORD SAFETY LEVER
39	S1-921-140-210		REC BUTTON LEVER SPRING
40	S1-921-260-020		CAM GEAR
41	S1-921-140-160		E ACTUATOR SPRING
42	S1-921-090-240		MAIN BELT
43	S1-921-093-030		FLYWHEEL ASSY
44	S1-921-070-030		RF BELT
45	S1-921-073-080		RF CLUTCH ASSY
46	S1-921-140-170		P.S.LEVER SPRING
47	S6-209-100-100		E HEAD PH-K380-MS1
48	S6-201-011-110		HEAD,RP7442ES-0951
49	S6-401-011-520		LEAF SW MSW-1541F
50	S6-401-011-610		LEAF SW MSW-17820MVEI
51	S1-821-010-500		PLAY BUTTON LEVER SPRING
A	S9-P33-200-320		DEL TITE SCREW M2-3
B	S9-422-000-000		P WASHER CUT 12-3.8-0.3
C	S9-679-000-000		P TAP SCREW M2-5
D	S9-999-180-090		TAP SCREW M2-4.5
E	S9-922-000-000		AZIMUTH SCREW M2-8
F	S9-P01-200-310		SCREW,M2-3
G	S9-004-000-000		SCREW,M2-6
H	S9-882-000-000		P WASHER 2-3.5-0.4
I	S9-999-200-410		P TAP SCREW M2-3
J	S9-999-030-130		P WASHER CUT 1.45-3.8-0.
K	S9-179-000-000		C TAP SCREW M2-3
L	S9-999-000-030		P WASHER2.1-4-0.13

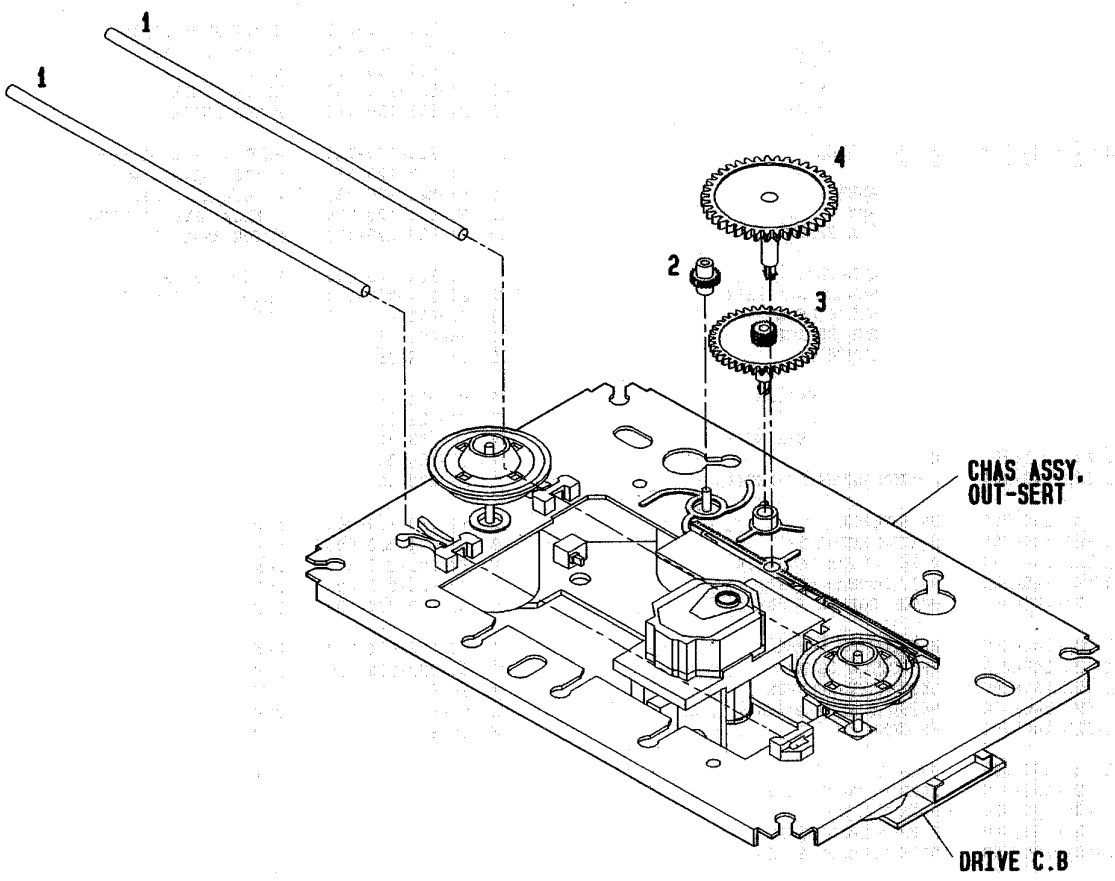
TAPE MECHANISM EXPLODED VIEW 2/2



TAPE MECHANISM PARTS LIST 2/2

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	S1-921-030-4A0		HEAD BASE
2	S1-821-030-070		AZIMUTH SPRING
3	S1-921-030-030		PANEL P SPRING
4	S1-921-260-050		GEAR PLATE SPRING
5	S1-921-265-020		GEAR PLATE ASSY
6	S1-921-140-370		P ARM COLLER
7	S1-921-140-340		P ARM
8	S1-921-030-110		HEAD PANEL
9	S1-921-143-010		BASE ASSY
10	S1-921-141-8A0		M CONTROL SPRING
11	S1-921-260-4A0		SENSING LEVER
12	S1-921-043-090		PINCH ROLLER ARM ASSY
13	S1-921-130-020		EJECT SLIDE LEVER
14	S1-921-141-3A0		P CONTROL SPRING
15	S1-921-140-820		PAUSE LEVER(F)
16	S1-921-140-120		PAUSE LEVER SPRING
17	S1-921-140-110		PAUSE STOPPER
18	S1-921-140-150		BUTTON LEVER SPRING(B)
19	S1-821-011-590		E KICK LEVER
20	S1-921-140-140		BUTTON LEVER SPRING(A)
21	S1-921-140-200		PR STOPPER
22	S1-921-140-090		SWITCH ACTUATOR
23	S1-921-140-080		PUSH BUTTON ACTUATOR
24	S1-921-140-230		PLAY BUTTON LEVER
25	S1-821-120-020		MOTOR COLLER SCREW
26	S1-921-140-240		REW BUTTON LEVER
27	S1-921-140-250		FF BUTTON LEVER
28	S1-921-140-260		STOP BUTTON LEVER
29	S1-921-140-610		PAUSE BUTTON LEVER
30	S1-821-100-700		FF GEAR
31	S1-921-050-060		SENSER
32	S1-921-053-030		TAKE UP REEL ASSY
33	S1-829-100-010		PACK SPRING
34	S1-921-053-040		SUPPLY REEL ASSY
35	S1-829-100-100		BACK TENSION SPRING
36	S1-821-120-650		COLLER B
37	S1-921-140-170		P.S.LEVER SPRING
38	S1-921-073-080		RF CLUTCH ASSY
39	S1-921-070-030		RF BELT
40	S1-921-260-020		CAM GEAR
41	S1-921-140-160		E ACTUATOR SPRING
42	S1-921-093-040		FLYWHEEL ASSY
43	S1-921-090-240		MAIN BELT
44	S1-820-130-060		MOTOR RUBBER
45	S1-921-120-130		MOTOR PULLEY
46	S1-921-120-120		ANTI VIBR FELT MAT
47	S1-821-120-680		P KICK LEVER (A)
48	S1-821-120-230		PK COLLER SCREW A
49	S1-821-120-250		P KICK LEVER SPRING
50	S1-921-120-110		MOTOR BRACKET
51	S1-921-120-090		P KICK LEVER
52	S6-201-011-110		HEAD,RP7442ES-0951
53	S6-401-011-520		LEAF SW MSW-1541F
54	S6-401-011-610		LEAF SW MSW-17820MVE1
55	S6-002-030-290		MOTOR EG530YD-2BH
56	S1-921-015-010		CHASSIS ASSY
57	S1-821-010-500		PLAY BUTTON LEVER SPRING
A	S9-P33-200-320		DEL TITE SCREW M2-3
B	S9-180-000-000		C TAP SCREW M2-4
C	S9-679-000-000		P TAP SCREW M2-5
D	S9-999-180-090		TAP SCREW M2-4.5
E	S9-004-000-000		SCREW M2-6
F	S9-P01-200-310		SCREW,M2-3
G	S9-922-000-000		AZIMUTH SCREW M2-8
H	S9-182-000-000		C TAP SCREW M2-6
I	S9-422-000-000		P WASHER CUT 12-3.8-0.3
J	S9-999-030-130		P WASHER CUT 1.45-3.8-0.
K	S9-882-000-000		P WASHER 2-3.5-0.4
L	S9-999-000-030		P WASHER2.1-4-0.13
M	S9-999-200-410		P TAP SCREW M2-3
N	S9-P05-200-810		SCREW,S TAP 2-8

CD MECHANISM EXPLODED VIEW 1／1



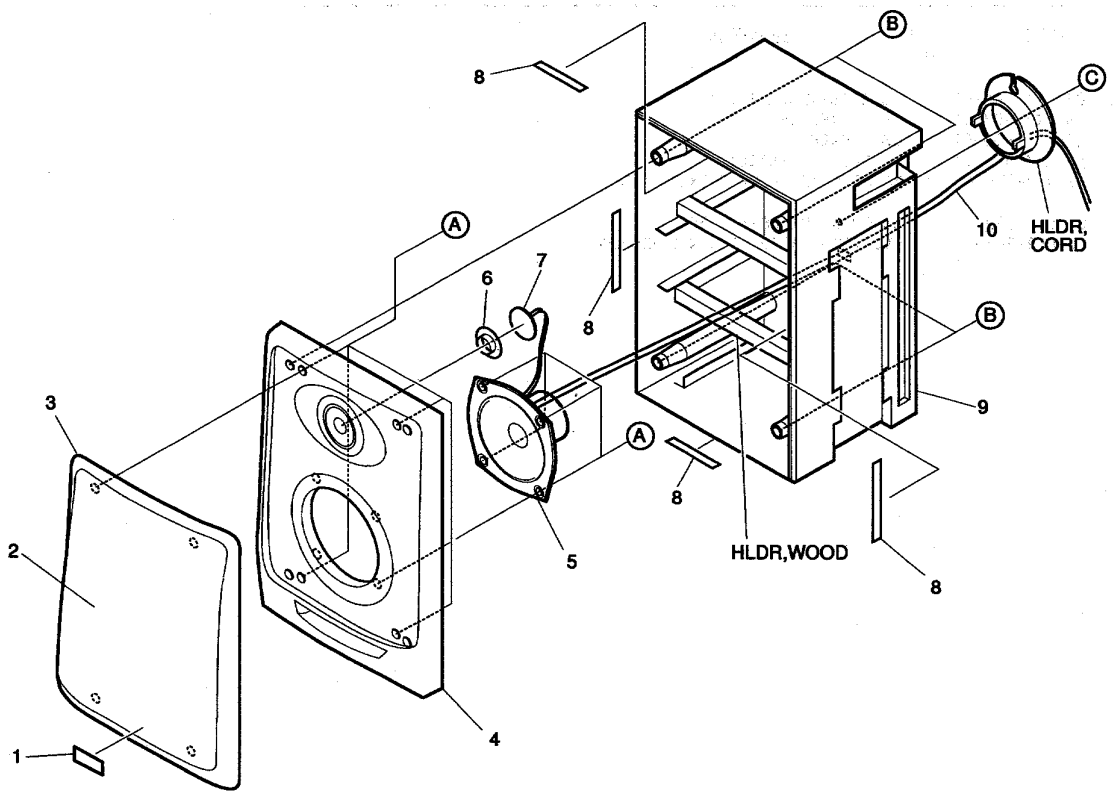
CD MECHANISM PARTS LIST 1／1

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.	ｶﾝﾘ NO.	DESCRIPTION
1	85-ZG3-215-010		SHAFT,GUIDE
2	85-ZG3-210-010		GEAR,MOTOR
3	85-ZG3-211-010		GEAR,A
4	85-ZG3-212-010		GEAR,B

* Replacement the whole mechanism assembly (5ZG-3) for other components.

SPEAKER EXPLODED VIEW 1/1



SPEAKER 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.	カンリ NO.	DESCRIPTION	REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	86-CT4-036-016		BADGE,AIWA	8	86-CT4-111-016		FELT,SPKR
2	86-CT4-107-016		NET,SPKR	9	86-CT4-102-016		CABI,SPKR-REAR L
3	86-CT4-106-016		FRAME,SPKR	9	86-CT4-103-016		CABI,SPKR-REAR R
4	86-CT4-101-016		CABI,SPKR-FR	10	86-CT4-627-016		CORD,2PSPKR
5	86-CT4-625-016		SPKR,W 120 40HM 10W 6CT-4	A	87-661-097-419		VFT1+3-12
6	86-CT4-110-016		CAP,SPKR	B	87-651-100-419		VT1+3-16
7	86-CT4-626-016		SPKR,T	C	87-751-097-419		VT2+3-12

■ 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	86-CT4-906-010		IB,EGFSI<EZ,K,EEZ>
1	86-CT4-907-010		IB,ESC<HE,HR>
1	86-CT4-905-010		IB,ESF<LH>
2	86-CT4-951-010		RC UNIT, RC-6AT01
⚠ 3	87-050-076-010		AC CORD SET ASSY,E<EXCEPT K>
⚠ 3	87-050-099-010		AC CORD SET ASSY,K 3P<K>
⚠ 4	87-099-789-010		PLUG,CONVERSION IR44<HE,HR,LH>

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－　－	

アイワ株式会社
AIWA CO.,LTD.

931261
Tokyo Japan

〒110 東京都台東区池之端1－2－11　☎03 (3827) 3111 （代表）

Printed in Singapore