

SERVICE MANUAL

CD-R/CD STEREO SYSTEM

- BASIC MD MECHANISM : 2ZM-3MK2 YPR4
- BASIC CD MECHANISM : AZG-1 ZD8RD
- BASIC CD-R MECHANISM : PH1621011A

SYSTEM	CD-R/CD/ CASSEIVER	SPEAKER
XR-C3RW	CX-NC3RW	SX-WNC3

This Service Manual is the "Revision Publishing" and replaces "Simple Manual" XR-C3RW U(S)(S/M Code No. 09-99C-338-0T1).

If requiring information about the CD mechanism, see Service Manual of AZG-1, (S/M Code No. 09-001-335-3N6).

TABLE OF CONTENTS

SPECIFICATIONS	3
ACCESSORIES/PACKAGE LIST	3
PROTECTION OF EYES FROM LASER BEAM DURING SERVICING	4
ELECTRICAL MAIN PARTS LIST	5-11
TRANSISTOR ILLUSTRATION	12
FL GRID ASSIGNMENT/ANODE CONNECTION	13, 14
SCHEMATIC DIAGRAM-1 (MAIN 1/2).....	15, 16
SCHEMATIC DIAGRAM-2 (MAIN 2/2).....	17, 18
WIRING-1 (MAIN)	19, 20
SCHEMATIC DIAGRAM-3 (FRONT)	21, 22
WIRING-2 (FRONT)	23, 24
SCHEMATIC DIAGRAM-4 (INTERFACE)	25, 26
WIRING-3 (INTERFACE)	27, 28
SCHEMATIC DIAGRAM-5 (PT)	29
WIRING-4 (PT)	30
SCHEMATIC DIAGRAM-6 (CD-R 1/2).....	31, 32
SCHEMATIC DIAGRAM-7 (CD-R 2/2).....	33, 34
WIRING-5 (CD-R)	35, 36
IC BLOCK DIAGRAM.....	37-41
IC DESCRIPTION	42-49
ELECTRICAL ADJUSTMENT/PRACTICAL SERVICE FIGURE	50-53
TAPE MECHANISM PARTS LIST 1/1	54
TAPE MECHANISM EXPLODED VIEW 1/2	55
TAPE MECHANISM EXPLODED VIEW 2/2	56
MECHANICAL EXPLODED VIEW 1/1	57, 58
MECHANICAL PARTS LIST 1/1	59
SPEAKER DISASSEMBLY INSTRUCTIONS	60
SPEAKER PARTS LIST 1/1	61

SPECIFICATIONS

FM tuner section

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	16.8 dBf
Antenna terminals	75 ohms (unbalanced)

AM tuner section

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

Amplifier section

Mid-high frequency amplifier

Power output*	10 watts per channel, Min. RMS at 8 ohms, from 200 Hz to 20 kHz, with no more than 1% Total Harmonic Distortion
Total harmonic distortion	0.06 % (8 W, 1 kHz, 8 ohms, DIN AUDIO)

Low frequency amplifier

Power output*	30 watts per channel, Min. RMS at 4 ohms, from 50 Hz to 200 Hz, with no more than 1% Total Harmonic Distortion
Total harmonic distortion	0.06 % (20 W, 135 Hz, 4 ohms, DIN AUDIO)

* without connecting to the SURROUND SPEAKERS

Inputs

VIDEO/AUX: 700 mV

Outputs

DIGITAL IN
SPEAKERS:
LOW FREQ: accept speakers of 4 ohms
HIGH FREQ: accept speakers of 8 ohms
SURROUND SPEAKERS: accept speakers of 8 to 16 ohms
PHONES (stereo jack): accepts headphones of 32 ohms or more
CD DIGITAL OUT (OPTICAL) jack

Compact disc player section

Laser	Semiconductor laser ($\lambda = 780$ 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

COMPACT DISC recorder (CD-R/RW) section

Scanning method	Non-contact optical scanner (Semiconductor laser application)
Recording system	Magnetic polarity modulation overwrite system
Rotation speed	Approx. 400 - 900 rpm (CLV)
Sampling frequency	44.1 kHz
No. of channels	Stereo: 2 channels Monaural: 1 channel
A-D, D-A converter	1-bit
Frequency	20 to 20000 Hz +0.5 - -1.5 dB
Wow and flutter	Unmeasurable

Cassette deck section

Track format	4 tracks, 2 channels stereo
Frequency response	50 Hz to 15000 Hz
Recording system	AC bias
Heads	Deck 1: Playback head \times 1 Deck 2: Recording/playback head \times 1, erase head \times 1

General

Power requirements	120 V AC, 60 Hz
Power consumption	150 W
Standby power consumption	1.3 W (power-economizing mode set to ON)2

Dimensions of main unit

(W \times H \times D) 260 \times 329.5 \times 354.5 mm

(10 $\frac{1}{4}$ \times 123 \times 14 in.)

Weight of main unit 10 kg (22 lb 1 oz.)

Speaker system SX-WNC3

Cabinet type	3 way, built-in subwoofer (magnetic shielded type)
Speakers	Subwoofer: 160 mm cone type Full range: 100 mm cone type Super tweeter: 20 mm ceramic type
Impedance	LOW FREQ: 4 ohms HIGH FREQ: 8 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W \times H \times D)	240 \times 324 \times 270 mm
Weight	4.8 kg

- Design and specifications are subject to change without notice.

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".

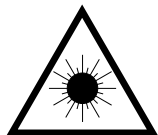
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	87-A90-030-010		ANT, LOOP AM-NC C
2	87-043-115-010		ANT, FEEDER FM
3	8Z-NF8-701-210		RC UNIT, RC-ZAS01
4	8Z-DF8-908-010		IB, D(J)I<D<S>>
4	8Z-DF8-903-010		IB, U(ESF)I<U<S>>

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.

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

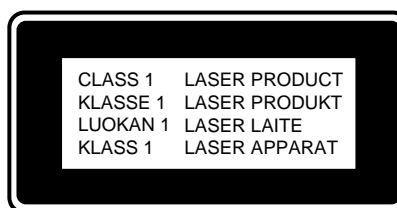
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.

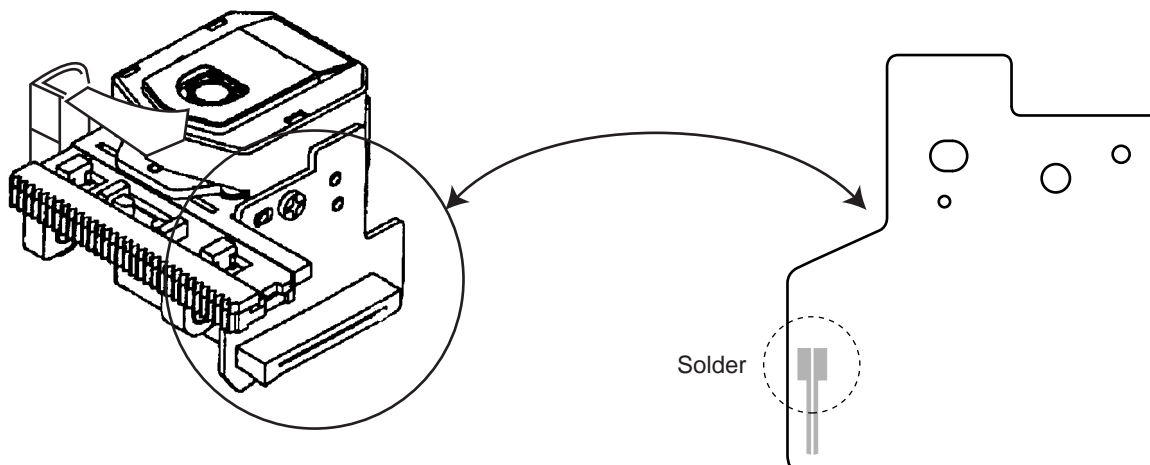
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



Precaution to replace Optical block

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 figure below.



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.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC				DIODE			
	8Z-DF8-602-010		C-IC, LC87F65C8A-ZDF8		87-020-465-080		DIODE, 1SS133 (110MA)
	87-A21-459-040		C-IC, TC74ACT245F		87-A40-547-090		DIODE, D5SBA20
	87-A20-914-010		IC, SPS-442-1-F		87-070-274-080		DIODE, 1N4003 SEM
	87-A21-458-040		C-IC, TC74ACT244F		87-A40-383-080		ZENER, MTZJ30A
	8A-AJ1-627-010		C-IC, EPF6016TC144-3		87-A40-345-080		ZENER, MTZJ10C
	87-A20-696-010		C-IC, AM186EM-33KC/W		87-A40-270-080		C-DIODE, MC2838
	8A-AJ1-621-010		C-IC ASSY, MBM29F400TC*1 AAJ1		87-A40-269-080		C-DIODE, MC2836
	8A-AJ1-626-040		C-IC, AT25160N-10SC		87-017-931-080		ZENER, MTZJ5.6B
	87-017-830-080		IC, TC7W14FU		87-A40-393-090		DIODE, 1N5402GW (F20)
	8A-AJ1-625-040		C-IC, KM6164000BLT-7LT		87-017-447-010		DIODE, GBU4DL
	8A-AJ1-628-010		IC, EPC1441PC8		87-A40-001-080		ZENER, MTZJ12C
	8A-AJ1-616-040		C-IC, CS8420-CS		87-A40-335-080		ZENER, MTZJ11C T-72
	87-A21-021-040		C-IC, BU2099FV		87-A40-246-080		DIODE, IN4148 T-72
	8A-AJ1-617-040		C-IC, CS4222-KS		87-017-978-080		DIODE, 1N4003
	86-NFZ-676-080		C-IC, NJM4558MD		87-A40-509-080		ZENER, MTZJ6.8C
	87-017-888-080		IC, NJM4558MD		87-A40-469-080		C-DIODE, HSM2838CTR
	87-A21-023-040		C-IC, BA3835F		87-A40-468-080		C-DIODE, HSM2836CTR
	87-A20-870-010		IC, GP1F37R		87-017-931-070		ZENER, MTZJ5.6B
	87-A20-971-040		C-IC, SN74LV14APW		87-A40-299-080		ZENER, DZ5.1M
	87-027-842-080		IC, NJM2904M		87-XM1-603-080		C-DIODE, 1SS193
	87-A21-031-040		C-IC, BU4551BF		87-A40-466-080		ZENER, MTZJ2.7A
	87-A21-111-040		C-IC, M62495FP		87-A40-464-080		ZENER, MTZJ3.6A
	87-070-127-110		IC, LC72131 D		87-017-149-080		ZENER, HZS6A2L
	87-A20-913-010		IC, LA1837NL				
TRANSISTOR				INTERFACE C.B			
	87-026-609-080		TR, KTA1266GR	C201	87-010-402-040		CAP, E 2.2-50 SME
	89-213-702-010		TR, 2SB1370 (1.8W)	C202	87-010-402-040		CAP, E 2.2-50 SME
	87-026-610-080		TR, KTC3198GR	C301	87-010-196-080		CHIP CAPACITOR, 0.1-25
	87-A30-076-080		C-TR, 2SC3052F	C303	87-010-380-040		CAP, E 47-16 SME
	87-A30-075-080		C-TR, 2SA1235F	C304	87-010-196-080		CHIP CAPACITOR, 0.1-25
	87-A30-234-080		TR, CSC4115BC	C305	87-010-075-040		CAP, E 10-16 5L
	87-A30-073-080		C-TR, RT1N 141C	C306	87-010-075-040		CAP, E 10-16 5L
	87-A30-186-010		FET, 2SK3053	C307	87-010-248-040		CAP, E 220-10 SME
	87-026-245-080		TR, DTC114ES	C313	87-010-072-040		CAP, E 2.2-50 5L
	87-A30-198-080		TR, KTC3199GR	C314	87-010-072-040		CAP, E 2.2-50 5L
	87-049-919-010		CONN, 3P EH V WHT	C315	87-010-072-040		CAP, E 2.2-50 5L
	87-A30-087-080		C-FET, 2SK2158	C316	87-010-072-040		CAP, E 2.2-50 5L
	89-113-625-080		TR, 2SA1362GR (120MHZ, 0.	C401	87-010-178-080		CHIP CAP 1000P
	87-A30-329-080		TR, CD1585BC	C402	87-010-178-080		CHIP CAP 1000P
	87-A30-190-080		TR, CC5551	C403	87-010-196-080		CHIP CAPACITOR, 0.1-25
	87-A30-215-010		TR, 2SD2025	C404	87-010-196-080		CHIP CAPACITOR, 0.1-25
	87-A30-214-010		TR, 2SB1344	C411	87-012-140-080		CAP 470P
	87-A30-106-070		C-TR, CMBT5551	C421	87-010-197-080		CAP, CHIP 0.01 DM
	87-A30-107-070		C-TR, CMBT5401	C701	87-012-140-080		CAP 470P
	87-026-227-080		CHIP-TR, DTA114EK	C702	87-010-235-080		CAP, E 470-16 SME
	87-026-235-080		CHIP-TR, DTC114EK	C705	87-012-368-080		C-CAP, S 0.1-50 F
	87-026-230-080		CHIP-TR, DTA114YK	C706	87-012-140-080		CAP 470P
	87-A30-256-010		TR, 2SD1933	C707	87-010-235-080		CAP, E 470-16 SME
	87-A30-255-010		TR, 2SB1342	C708	87-012-368-080		C-CAP, S 0.1-50 F
	87-A30-071-080		C-TR, RT1N 144C	C812	87-010-182-080		C-CAP, S 2200P-50 B
	87-026-225-080		FET, 2SJ106GR	C813	87-010-182-080		C-CAP, S 2200P-50 B
	87-A30-072-080		C-TR, RT1P 144C	C814	87-010-182-080		C-CAP, S 2200P-50 B
	87-A30-383-040		C-TR, DTC144WKA	C815	87-010-182-080		C-CAP, S 2200P-50 B
	87-A30-091-080		FET, 2SJ460	C816	87-012-156-080		C-CAP, S 220P-50 CH
	87-A30-074-080		C-TR, RT1P 141C	C817	87-012-156-080		C-CAP, S 220P-50 CH
	87-A30-090-080		FET, 2SK2541	C818	87-010-182-080		C-CAP, S 2200P-50 B
	87-A30-104-080		C-TR, RT1N 441C	C819	87-010-182-080		C-CAP, S 2200P-50 B
	89-333-317-880		TR, 2SC3331 (0.5W)	C820	87-010-182-080		C-CAP, S 2200P-50 B
	89-341-165-080		CHIP TRANSISTOR 2SC4116GR	C821	87-010-182-080		C-CAP, S 2200P-50 B
	89-115-865-080		C-TR, 2SA1586GR	C822	87-012-156-080		C-CAP, S 220P-50 CH
	87-A30-224-010		TR, 2SA1329Y	C823	87-012-156-080		C-CAP, S 220P-50 CH
	87-A30-217-010		TR, 2SB1436(R)	C824	87-012-368-080		C-CAP, S 0.1-50 F
	87-026-213-080		CHIP-TR, DTC114YK	C850	87-010-408-040		CAP, E 47-50 SME
	89-327-143-080		TR, 2SC2714 (0.1W)	C851	87-012-368-080		C-CAP, S 0.1-50 F
				C852	87-010-101-040		CAP, E 220-16 SME
				C853	87-010-072-040		CAP, E 2.2-50 5L
				C854	87-010-402-040		CAP, E 2.2-50 SME
				C855	87-010-402-040		CAP, E 2.2-50 SME

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C856	87-010-402-040		CAP,E 2.2-50 SME	C112	87-010-196-080		CHIP CAPACITOR,0.1-25
C951	87-010-316-080		C-CAP. S 33P-50 J CH GRM	C113	87-016-459-040		CAP,E 470-10 SMG
CON901	87-099-014-010		CONN,12P 6216 V	C114	87-010-196-080		CHIP CAPACITOR,0.1-25
CON902	87-099-749-010		CONN,9P V 9604SC	C116	87-015-694-040		E/CAP 0.47-50
CON903	8Z-DF8-678-010		CONN,2P V SHIELD260MM	C117	87-010-264-040		CAP,E 100-10 5L
CON904	87-099-194-010		CONN,6P 6216V	C118	87-010-194-080		CAP, CHIP 0.047
CON905	87-A60-623-010		CONN,6P V 2MM JMT	C119	87-A11-071-040		CAP,E 47-50 SRG
CON906	87-A60-621-010		CONN,4P V 2MM JMT	C120	87-015-698-040		CAP,E 4.7-50 7L
CON907	87-A60-623-010		CONN,6P V 2MM JMT	C121	87-010-421-040		CAP,E 4.7-50 5L
CON908	87-049-919-010		CONN,3P EH V WHT	C122	87-010-194-080		CAP, CHIP 0.047
CON909	87-049-469-010		CONN,4P V	C123	87-010-196-080		CHIP CAPACITOR,0.1-25
CON919	87-A60-619-010		CONN,2P V 2MM JMT	C124	87-010-196-080		CHIP CAPACITOR,0.1-25
CON923	87-A60-619-010		CONN,2P V 2MM JMT	C125	87-010-196-080		CHIP CAPACITOR,0.1-25
CON924	87-A60-619-010		CONN,2P V 2MM JMT	C126	87-012-155-080		C-CAP 180P-50CH
CON925	87-049-919-010		CONN,3P EH V WHT	C127	87-010-196-080		CHIP CAPACITOR,0.1-25
FB101	87-A50-189-080		C-COIL,S BLM21B272S	C128	87-010-178-080		CHIP CAP 1000P
FB102	87-A50-189-080		C-COIL,S BLM21B272S	C130	87-010-312-080		C-CAP,S 15P-50 CH
L701	87-A50-267-010		COIL,33UHRCR-875D	C131	87-010-322-080		C-CAP,S 100P-50 CH
L702	87-A50-267-010		COIL,33UHRCR-875D	C195	87-010-194-080		CAP, CHIP 0.047
R318	87-A50-190-080		C-COIL,S BLM21A102S	C196	87-010-498-040		CAP,E 10-16 GAS
R319	87-A50-190-080		C-COIL,S BLM21A102S	C197	87-010-196-080		CHIP CAPACITOR,0.1-25
R415	87-A50-189-080		C-COIL,S BLM21B272S	C223	87-010-405-040		CAP,E 10-50
				C224	87-010-196-080		CHIP CAPACITOR,0.1-25
				C251	87-010-322-080		C-CAP,S 100P-50 CH
				C252	87-010-322-080		C-CAP,S 100P-50 CH
PT C.B				C253	87-010-322-080		C-CAP,S 100P-50 CH
C1	87-010-387-080		CAP,E 470-25 SME	C254	87-010-322-080		C-CAP,S 100P-50 CH
C3	87-A11-148-080		CAP,TC U 0.1-50 Z F	C255	87-010-322-080		C-CAP,S 100P-50 CH
C4	87-A11-148-080		CAP,TC U 0.1-50 Z F	C256	87-010-322-080		C-CAP,S 100P-50 CH
C5	87-A11-148-080		CAP,TC U 0.1-50 Z F	C272	87-010-322-080		C-CAP,S 100P-50 CH
C6	87-A11-148-080		CAP,TC U 0.1-50 Z F				
C14	87-016-658-000		CAP,E 4700-35 M SMG	C273	87-010-322-080		C-CAP,S 100P-50 CH
C15	87-016-658-000		CAP,E 4700-35 M SMG	C351	87-012-158-080		C-CAP,S 390P-50 CH
C21	87-010-928-000		CAP,E 4700-25 M SMG	C352	87-010-196-080		CHIP CAPACITOR,0.1-25
C22	87-016-121-090		CAP,E 6800-16 SMG	C353	87-010-196-080		CHIP CAPACITOR,0.1-25
C25	87-A11-148-080		CAP,TC U 0.1-50 Z F	C354	87-010-196-080		CHIP CAPACITOR,0.1-25
C26	87-A11-148-080		CAP,TC U 0.1-50 Z F	C355	87-010-196-080		CHIP CAPACITOR,0.1-25
C31	87-010-403-080		CAP, ELECT 3.3-50V	C356	87-010-196-080		CHIP CAPACITOR,0.1-25
CN1	87-A60-851-010		CONN,9P V VH	C357	87-010-196-080		CHIP CAPACITOR,0.1-25
CN5	8Z-DF8-623-010		CONN ASSY,3P PT	C421	87-015-686-040		CAP,E 22-25 M 7L SRA
△F3	87-A91-276-080		FUSE,125MA 125V F 251	CON101	87-099-720-010		CONN,30P TYK-B(P)
△F9	87-026-691-080		FUSE,10A 125V 251	CON102	87-A60-055-010		CONN,13P V 9604S-13C
△F10	87-026-690-080		FUSE,5A 125V 251	CON104	87-099-017-010		CONN, 15P 6216 V
JW20	87-A90-210-080		FUSE,7A 125V 251	CON502	87-099-197-010		CONN, 9P 6216 V
JW21	87-A90-210-080		FUSE,7A 125V 251	FL101	8Z-DF8-601-010		FL,BJ735GNK
JW24	87-017-430-080		DIODE,RK14	L331	87-A50-333-010		COIL,OSC 9.43MHZ
△L1	87-A91-453-010		FLTR,LINE PLH10A7003R6P02B1	LED201	87-A40-452-080		LED,SEL6210S-TP7 RED
△PT2	8Z-NF8-661-010		PT,SUB ZNF-8(U)	LED202	87-A40-452-080		LED,SEL6210S-TP7 RED
△T1	87-A60-317-010		TERMINAL, 1P MSC	LED203	87-A40-452-080		LED,SEL6210S-TP7 RED
△T2	87-A60-317-010		TERMINAL, 1P MSC	LED204	87-A40-452-080		LED,SEL6210S-TP7 RED
				LED205	87-A40-452-080		LED,SEL6210S-TP7 RED
FRONT C.B				LED206	87-A40-451-080		LED,SEL6510C-TP7 GRN
C1	87-012-156-080		C-CAP,S 220P-50 CH	LED207	87-A40-451-080		LED,SEL6510C-TP7 GRN
C2	87-012-156-080		C-CAP,S 220P-50 CH	LED208	87-A40-451-080		LED,SEL6510C-TP7 GRN
C3	87-012-156-080		C-CAP,S 220P-50 CH	LED209	87-A40-451-080		LED,SEL6510C-TP7 GRN
C4	87-012-156-080		C-CAP,S 220P-50 CH	LED217	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
C5	87-012-156-080		C-CAP,S 220P-50 CH	LED218	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
C6	87-012-156-080		C-CAP,S 220P-50 CH	LED219	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
C7	87-012-156-080		C-CAP,S 220P-50 CH	LED220	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
C8	87-012-156-080		C-CAP,S 220P-50 CH	LED221	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
C9	87-012-156-080		C-CAP,S 220P-50 CH	LED222	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
C10	87-012-156-080		C-CAP,S 220P-50 CH	LED251	87-A40-564-010		LED,SEL6215S-LF62 RED
C11	87-012-156-080		C-CAP,S 220P-50 CH	LED252	87-A40-564-010		LED,SEL6215S-LF62 RED
C12	87-012-349-080		C-CAP,S 1000P-50 CH	LED254	87-A40-564-010		LED,SEL6215S-LF62 RED
C13	87-012-156-080		C-CAP,S 220P-50 CH	LED371	87-A90-825-040		LED,SLP-9131C-81H-S-T1 RED
C103	87-010-197-080		CAP, CHIP 0.01 DM	LED601	87-A40-619-040		LED,SLR-56PT-T31-W GRN
C104	87-012-156-080		C-CAP,S 220P-50 CH	LED602	87-A40-619-040		LED,SLR-56PT-T31-W GRN
C105	87-012-156-080		C-CAP,S 220P-50 CH	LED603	87-A40-619-040		LED,SLR-56PT-T31-W GRN
C107	87-012-157-080		C-CAP,S 330P-50 CH	LED604	87-A40-619-040		LED,SLR-56PT-T31-W GRN
C108	87-010-075-040		CAP,E 10-16 5L	LED605	87-A40-619-040		LED,SLR-56PT-T31-W GRN
				LED606	87-A40-619-040		LED,SLR-56PT-T31-W GRN

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
LED607	87-A40-619-040		LED,SLR-56PT-T31-W GRN	C61	87-010-260-080		CAP, ELECT 47-25V
LED608	87-A40-619-040		LED,SLR-56PT-T31-W GRN	C62	87-010-403-080		CAP, ELECT 3.3-50V
LED650	87-A40-451-080		LED,SEL6510C-TP7 GRN	C91	87-010-401-080		CAP, ELECT 1-50V
S301	87-A91-024-180		SW,TACT KSH0611BT	C92	87-010-380-080		CAP, ELECT 47-16V
S302	87-A91-024-180		SW,TACT KSH0611BT	C93	87-010-380-080		CAP, ELECT 47-16V
S303	87-A91-024-180		SW,TACT KSH0611BT	C101	87-012-368-080		C-CAP,S 0.1-50 F
S304	87-A91-024-180		SW,TACT KSH0611BT	C101	87-010-178-080		CHIP CAP 1000P
S305	87-A91-024-180		SW,TACT KSH0611BT	C102	87-012-368-080		C-CAP,S 0.1-50 F
S306	87-A91-024-180		SW,TACT KSH0611BT	C102	87-010-178-080		CHIP CAP 1000P
S307	87-A91-024-180		SW,TACT KSH0611BT	C103	87-012-368-080		C-CAP,S 0.1-50 F
S308	87-A91-024-180		SW,TACT KSH0611BT	C103	87-010-405-080		CAP, ELECT 10-50V
S309	87-A91-024-180		SW,TACT KSH0611BT	C104	87-010-405-080		CAP, ELECT 10-50V
S310	87-A91-024-180		SW,TACT KSH0611BT	C105	87-012-368-080		C-CAP,S 0.1-50 F
S311	87-A91-024-180		SW,TACT KSH0611BT	C107	87-012-368-080		C-CAP,S 0.1-50 F
S312	87-A91-024-180		SW,TACT KSH0611BT	C107	87-010-408-080		CAP, ELECT 47-50V
S313	87-A91-024-180		SW,TACT KSH0611BT	C108	87-012-368-080		C-CAP,S 0.1-50 F
S314	87-A91-024-180		SW,TACT KSH0611BT	C108	87-010-408-080		CAP, ELECT 47-50V
S315	87-A90-095-080		SW,TACT EVQ11G04M	C109	87-012-368-080		C-CAP,S 0.1-50 F
S316	87-A90-095-080		SW,TACT EVQ11G04M	C109	87-010-322-080		C-CAP,S 100P-50 CH
S317	87-A90-095-080		SW,TACT EVQ11G04M	C110	87-012-368-080		C-CAP,S 0.1-50 F
S318	87-A90-095-080		SW,TACT EVQ11G04M	C110	87-010-322-080		C-CAP,S 100P-50 CH
S319	87-A90-095-080		SW,TACT EVQ11G04M	C111	87-010-260-080		CAP, ELECT 47-25V
S320	87-A91-024-180		SW,TACT KSH0611BT	C112	87-010-260-080		CAP, ELECT 47-25V
S321	87-A91-024-180		SW,TACT KSH0611BT	C113	87-012-368-080		C-CAP,S 0.1-50 F
S322	87-A91-024-180		SW,TACT KSH0611BT	C113	87-A10-946-080		C-CAP,S 220P-100 J CH
S323	87-A91-024-180		SW,TACT KSH0611BT	C114	87-012-368-080		C-CAP,S 0.1-50 F
S324	87-A90-095-080		SW,TACT EVQ11G04M	C114	87-A10-946-080		C-CAP,S 220P-100 J CH
S325	87-A91-024-180		SW,TACT KSH0611BT	C115	87-012-368-080		C-CAP,S 0.1-50 F
S326	87-A91-024-180		SW,TACT KSH0611BT	C116	87-012-368-080		C-CAP,S 0.1-50 F
S327	87-A91-024-180		SW,TACT KSH0611BT	C117	87-012-368-080		C-CAP,S 0.1-50 F
S328	87-A91-024-180		SW,TACT KSH0611BT	C117	87-010-400-080		CAP, ELECT 0.47-50V
S329	87-A90-095-080		SW,TACT EVQ11G04M	C118	87-012-368-080		C-CAP,S 0.1-50 F
S330	87-A90-095-080		SW,TACT EVQ11G04M	C118	87-010-400-080		CAP, ELECT 0.47-50V
S331	87-A90-095-080		SW,TACT EVQ11G04M	C119	87-012-154-080		C-CAP,S 150P-50 CH
S334	87-A91-024-180		SW,TACT KSH0611BT	C120	87-012-368-080		C-CAP,S 0.1-50 F
S335	87-A91-024-180		SW,TACT KSH0611BT	C121	87-012-368-080		C-CAP,S 0.1-50 F
S337	87-A91-024-180		SW,TACT KSH0611BT	C121	87-010-178-080		CHIP CAP 1000P
SW101	87-A90-535-010		SW,RTRY EC16B24304	C122	87-010-154-080		CAP CHIP 10P
SW102	87-A90-950-010		SW,RTRY EC12E12504 ENCODER	C122	87-010-178-080		CHIP CAP 1000P
TP108	87-009-371-010		CONNECTOR, 6P	C123	87-010-176-080		C-CAP,S 680P-50 SL
MAIN C.B				C123	87-010-154-080		CAP CHIP 10P
C1	87-012-369-080		C-CAP,S 0.047-50F	C124	87-010-176-080		C-CAP,S 680P-50 SL
C2	87-012-369-080		C-CAP,S 0.047-50F	C124	87-010-831-080		C-CAP,U,0.1-16F
C3	87-012-368-080		C-CAP,S 0.1-50 F	C125	87-012-368-080		C-CAP,S 0.1-50 F
C4	87-012-368-080		C-CAP,S 0.1-50 F	C125	87-010-831-080		C-CAP,U,0.1-16F
C5	87-012-368-080		C-CAP,S 0.1-50 F	C126	87-012-368-080		C-CAP,S 0.1-50 F
C6	87-012-368-080		C-CAP,S 0.1-50 F	C126	87-010-831-080		C-CAP,U,0.1-16F
C9	87-A10-520-000		CAP,E 3300-35 M SMG	C127	87-012-368-080		C-CAP,S 0.1-50 F
C10	87-A10-520-000		CAP,E 3300-35 M SMG	C128	87-012-368-080		C-CAP,S 0.1-50 F
C21	87-010-385-080		CAP, ELECT 220-25V	C128	87-012-368-080		C-CAP,S 0.1-50 F
C22	87-010-385-080		CAP, ELECT 220-25V	C129	87-010-191-080		C-CAP,S 0.015-50 F
C23	87-010-247-080		CAP, ELECT 100-50V	C129	87-012-368-080		C-CAP,S 0.1-50 F
C24	87-010-247-080		CAP, ELECT 100-50V	C130	87-010-191-080		C-CAP,S 0.015-50 F
C25	87-010-430-080		CAP, ELECT 100-63	C130	87-012-368-080		C-CAP,S 0.1-50 F
C26	87-010-263-080		CAP, ELECT 100-10V	C131	87-012-368-080		C-CAP,S 0.1-50 F
C27	87-010-197-080		CAP, CHIP 0.01 DM	C131	87-010-197-080		CAP, CHIP 0.01 DM
C28	87-010-263-080		CAP, ELECT 100-10V	C132	87-010-197-080		CAP, CHIP 0.01 DM
C29	87-010-247-080		CAP, ELECT 100-50V	C132	87-010-252-080		CAP, ELECT 1000-6.3V
C30	87-010-381-080		CAP, ELECT 330-16V	C133	87-010-197-080		CAP, CHIP 0.01 DM
C31	87-010-235-080		CAP,E 470-16 SME	C133	87-010-391-040		CAP,E 10-35 SME
C32	87-010-405-080		CAP, ELECT 10-50V	C134	87-012-142-080		CAP, S 0.33-16
C33	87-010-405-080		CAP, ELECT 10-50V	C137	87-012-368-080		C-CAP,S 0.1-50 F
C34	87-012-368-080		C-CAP,S 0.1-50 F	C138	87-012-368-080		C-CAP,S 0.1-50 F
C35	87-010-198-080		CAP, CHIP 0.022	C139	87-012-368-080		C-CAP,S 0.1-50 F
C36	87-010-198-080		CAP, CHIP 0.022	C201	87-010-197-080		CAP, CHIP 0.01 DM
C40	87-010-112-080		CAP, ELECT 100-16V	C203	87-012-368-080		C-CAP,S 0.1-50 F
C50	87-010-182-080		C-CAP,S 2200P-50 B	C203	87-010-177-080		C-CAP,S 820P-50 SL
C51	87-010-180-080		C-CER 1500P	C204	87-016-526-080		C-CAP,S 0.47-16 BK
				C204	87-010-177-080		C-CAP,S 820P-50 SL

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C205	87-010-189-080		C-CAP,S 8200P-50 B	C451	87-010-198-080		CAP, CHIP 0.022
C206	87-012-368-080		C-CAP,S 0.1-50 F	C452	87-010-382-080		CAP, ELECT 22-25V
C207	87-012-156-080		C-CAP,S 220P-50 CH	C453	87-010-183-080		C-CAP,S 2700P-50 B
C208	88-XMY-614-080		C-CAP,TN 10U-10 TCFG A	C454	87-010-183-080		C-CAP,S 2700P-50 B
C209	87-012-368-080		C-CAP,S 0.1-50 F	C454	87-010-805-080		CAP, S 1-16
C209	87-010-403-080		CAP, ELECT 3.3-50V	C455	87-010-183-080		C-CAP,S 2700P-50 B
C210	87-012-368-080		C-CAP,S 0.1-50 F	C455	87-010-805-080		CAP, S 1-16
C210	87-010-403-080		CAP, ELECT 3.3-50V	C456	87-010-197-080		CAP, CHIP 0.01 DM
C211	88-XMY-614-080		C-CAP,TN 10U-10 TCFG A	C456	87-010-552-040		CAP,E 22-16 GAS
C211	87-010-181-080		CAP,CHIP S 1800P	C457	87-012-368-080		C-CAP,S 0.1-50 F
C212	87-010-181-080		CAP,CHIP S 1800P	C458	87-010-178-080		CHIP CAP 1000P
C213	87-010-403-080		CAP, ELECT 3.3-50V	C459	87-010-175-080		CAP 560P
C214	87-010-403-080		CAP, ELECT 3.3-50V	C461	87-012-158-080		C-CAP,S 390P-50 CH
C215	87-010-322-080		C-CAP,S 100P-50 CH	C462	87-012-158-080		C-CAP,S 390P-50 CH
C216	87-010-322-080		C-CAP,S 100P-50 CH	C501	87-010-401-080		CAP, ELECT 1-50V
C217	87-010-260-080		CAP, ELECT 47-25V	C502	87-010-401-080		CAP, ELECT 1-50V
C218	87-010-260-080		CAP, ELECT 47-25V	C507	87-010-196-080		CHIP CAPACITOR,0.1-25
C219	87-A10-946-080		C-CAP,S 220P-100 J CH	C508	87-010-196-080		CHIP CAPACITOR,0.1-25
C220	87-A10-946-080		C-CAP,S 220P-100 J CH	C605	87-010-179-080		CAP,CHIP S B1200P
C225	87-012-368-080		C-CAP,S 0.1-50 F	C606	87-010-179-080		CAP,CHIP S B1200P
C226	87-012-368-080		C-CAP,S 0.1-50 F	C609	87-010-213-080		C-CAP,S 0.015-50 B
C227	87-010-186-080		CAP,CHIP 4700P	C610	87-010-213-080		C-CAP,S 0.015-50 B
C228	87-010-186-080		CAP,CHIP 4700P	C611	87-010-545-080		CAP, ELECT 0.22-50V
C229	87-010-993-080		C-CAP,S 0.056-25 B	C612	87-010-545-080		CAP, ELECT 0.22-50V
C230	87-010-993-080		C-CAP,S 0.056-25 B	C613	87-010-545-080		CAP, ELECT 0.22-50V
C231	87-010-196-080		CHIP CAPACITOR,0.1-25	C614	87-010-545-080		CAP, ELECT 0.22-50V
C232	87-010-196-080		CHIP CAPACITOR,0.1-25	C615	87-010-154-080		CAP CHIP 10P
C233	87-010-190-080		S CHIP F 0.01	C616	87-010-385-080		CAP, ELECT 220-25V
C234	87-010-190-080		S CHIP F 0.01	C617	87-010-385-080		CAP, ELECT 220-25V
C235	87-010-182-080		C-CAP,S 2200P-50 B	C631	87-010-178-080		CHIP CAP 1000P
C235	87-016-285-080		CAP,E 47-100SME	C632	87-010-178-080		CHIP CAP 1000P
C236	87-010-182-080		C-CAP,S 2200P-50 B	C669	87-010-322-080		C-CAP,S 100P-50 CH
C236	87-016-285-080		CAP,E 47-100SME	C670	87-010-322-080		C-CAP,S 100P-50 CH
C237	87-010-322-080		C-CAP,S 100P-50 CH	C677	87-010-197-080		CAP, CHIP 0.01 DM
C238	87-010-322-080		C-CAP,S 100P-50 CH	C701	87-010-381-080		CAP, ELECT 330-16V
C239	87-010-196-080		CHIP CAPACITOR,0.1-25	C702	87-010-404-080		CAP, ELECT 4.7-50V
C240	87-010-407-080		CAP, ELECT 33-50V	C703	87-010-197-080		CAP, CHIP 0.01 DM
C243	87-010-407-080		CAP, ELECT 33-50V	C704	87-010-197-080		CAP, CHIP 0.01 DM
C301	87-010-178-080		CHIP CAP 1000P	C709	87-010-322-080		C-CAP,S 100P-50 CH
C302	87-010-178-080		CHIP CAP 1000P	C711	87-010-260-080		CAP, ELECT 47-25V
C303	87-010-178-080		CHIP CAP 1000P	C712	87-010-196-080		CHIP CAPACITOR,0.1-25
C304	87-010-178-080		CHIP CAP 1000P	C713	87-010-197-080		CAP, CHIP 0.01 DM
C305	87-010-198-080		CAP, CHIP 0.022	C714	87-010-197-080		CAP, CHIP 0.01 DM
C307	87-010-263-080		CAP, ELECT 100-10V	C721	87-010-312-080		C-CAP,S 15P-50 CH
C308	87-010-263-080		CAP, ELECT 100-10V	C722	87-010-312-080		C-CAP,S 15P-50 CH
C309	87-010-318-080		C-CAP,S 47P-50 CH	C723	87-010-178-080		CHIP CAP 1000P
C310	87-010-318-080		C-CAP,S 47P-50 CH	C725	87-010-178-080		CHIP CAP 1000P
C311	87-010-598-080		C-CAP,S 0.068-16VRK	C727	87-010-196-080		CHIP CAPACITOR,0.1-25
C312	87-010-598-080		C-CAP,S 0.068-16VRK	C728	87-010-248-080		CAP, ELECT 220-10V
C313	87-010-187-080		CAP CHIP S5600P	C751	87-010-197-080		CAP, CHIP 0.01 DM
C314	87-010-187-080		CAP CHIP S5600P	C755	87-010-197-080		CAP, CHIP 0.01 DM
C315	87-010-263-080		CAP, ELECT 100-10V	C756	87-010-197-080		CAP, CHIP 0.01 DM
C317	87-010-546-080		CAP, ELECT 0.33-50V	C757	87-010-318-080		C-CAP,S 47P-50 CH
C318	87-010-546-080		CAP, ELECT 0.33-50V	C758	87-010-149-080		C-CAP,S 5P-50 CH
C326	87-010-198-080		CAP, CHIP 0.022	C759	87-012-156-080		C-CAP,S 220P-50 CH
C327	87-012-368-080		C-CAP,S 0.1-50 F	C760	87-012-156-080		C-CAP,S 220P-50 CH
C360	87-010-401-080		CAP, ELECT 1-50V	C761	87-010-196-080		CHIP CAPACITOR,0.1-25
C399	87-012-140-080		CAP 470P	C762	87-010-197-080		CAP, CHIP 0.01 DM
C401	87-010-544-080		CAP, ELECT 0.1-50V	C763	87-010-194-080		CAP, CHIP 0.047
C402	87-010-544-080		CAP, ELECT 0.1-50V	C764	87-010-319-080		C-CAP,S 56P-50 CH
C403	87-010-321-080		CHIP CAPACITOR,82P(J)	C765	87-010-197-080		CAP, CHIP 0.01 DM
C404	87-010-321-080		CHIP CAPACITOR,82P(J)	C766	87-010-197-080		CAP, CHIP 0.01 DM
C405	87-010-197-080		CAP, CHIP 0.01 DM	C767	87-010-405-080		CAP, ELECT 10-50V
C406	87-010-197-080		CAP, CHIP 0.01 DM	C768	87-010-197-080		CAP, CHIP 0.01 DM
C407	87-010-197-080		CAP, CHIP 0.01 DM	C769	87-010-408-080		CAP, ELECT 47-50V
C408	87-010-197-080		CAP, CHIP 0.01 DM	C770	87-015-821-080		C-CAP 0.047
C409	87-010-182-080		C-CAP,S 2200P-50 B	C771	87-010-407-080		CAP, ELECT 33-50V
C410	87-010-182-080		C-CAP,S 2200P-50 B	C772	87-010-194-080		CAP, CHIP 0.047
C411	87-010-405-080		CAP, ELECT 10-50V	C773	87-010-196-080		CHIP CAPACITOR,0.1-25
C412	87-010-405-080		CAP, ELECT 10-50V	C774	87-010-263-080		CAP, ELECT 100-10V

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C775	87-010-404-080		CAP, ELECT 4.7-50V	J203	87-A60-238-010		TERMINAL,SP 4P (MSC)
C776	87-010-197-080		CAP, CHIP 0.01 DM	J204	87-A60-750-010		JACK,PIN 4P R/W BLUE
C777	87-010-400-080		CAP, ELECT 0.47-50V	J602	87-A60-881-010		JACK,PIN 2P MSP 242V05 PBSN
C778	87-010-401-080		CAP, ELECT 1-50V	J801	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02
C779	87-010-401-080		CAP, ELECT 1-50V	JR201	87-A91-685-080		C-F-BEAD, BLM11B121SB
C780	87-010-196-080		CHIP CAPACITOR,0.1-25	JW811	87-008-372-080		FILTER, EMI BL OIRNI
C781	87-010-405-080		CAP, ELECT 10-50V	L101	87-003-383-010		COIL,1UH-S
C782	87-010-405-080		CAP, ELECT 10-50V	L102	83-XM1-617-080		C-COIL,BK2125HM601
C783	87-015-819-080		CAPACITOR,0.01	L102	87-003-383-010		COIL,1UH-S
C784	87-010-197-080		CAP, CHIP 0.01 DM	L103	83-XM1-617-080		C-COIL,BK2125HM601
C785	87-010-400-080		CAP, ELECT 0.47-50V	L105	87-A91-502-080		C-F-BEAD, BLM11B750SA
C786	87-010-400-080		CAP, ELECT 0.47-50V	L106	83-XM1-617-080		C-COIL, BK2125HM601
C789	87-010-179-080		CAP,CHIP S B1200P	L107	83-XM1-617-080		C-COIL,BK2125HM601
C790	87-010-179-080		CAP,CHIP S B1200P	L108	83-XM1-617-080		C-COIL, BK2125HM601
C791	87-010-405-080		CAP, ELECT 10-50V	L125	83-XM1-617-080		C-COIL, BK2125HM601
C793	87-010-177-080		C-CAP,S 820P-50 SL	L126	83-XM1-617-080		C-COIL, BK2125HM601
C794	87-010-406-080		CAP, ELECT 22-50	L201	87-005-780-080		C-COIL,10UH FLC32C
C795	87-010-596-080		CAP, S 0.047-16	L201	87-003-383-010		COIL,1UH-S
C796	87-010-403-080		CAP, ELECT 3.3-50V	L202	87-005-780-080		C-COIL,10UH FLC32C
C797	87-010-183-080		C-CAP,S 2700P-50 B	L202	87-003-383-010		COIL,1UH-S
C798	87-010-183-080		C-CAP,S 2700P-50 B	L451	87-007-342-010		COIL,OSC 85K BIAS
C799	87-010-194-080		CAP, CHIP 0.047	L771	87-A50-266-010		COIL,FM DET-2N(TOK)
C812	87-010-197-080		CAP, CHIP 0.01 DM	L772	87-A91-110-010		FLTR,PCFUZH-450 (TOK)
C813	87-010-197-080		CAP, CHIP 0.01 DM	L781	87-005-847-080		COIL,2.2UH(CECS)
C814	87-010-197-080		CAP, CHIP 0.01 DM	L832	87-005-847-080		COIL,2.2UH(CECS)
C815	87-010-197-080		CAP, CHIP 0.01 DM	L981	8Z-ZA1-650-010		COIL,AM PACK4C (TOK)
C816	87-010-197-080		CAP, CHIP 0.01 DM	R20	87-A00-261-080		RES,M/F 0.56-1W J
C819	87-010-197-080		CAP, CHIP 0.01 DM	R110	83-XM1-617-080		C-COIL, BK2125HM601
C820	87-010-408-080		CAP, ELECT 47-50V	R128	83-XM1-617-080		C-COIL, BK2125HM601
C821	87-010-197-080		CAP, CHIP 0.01 DM	R129	87-A00-257-080		RES,M/F 0.15-1W J
C822	87-010-197-080		CAP, CHIP 0.01 DM	R130	87-A00-257-080		RES,M/F 0.15-1W J
C823	87-010-197-080		CAP, CHIP 0.01 DM	R131	87-A00-257-080		RES,M/F 0.15-1W J
C828	87-010-196-080		CHIP CAPACITOR,0.1-25	R132	87-A00-257-080		RES,M/F 0.15-1W J
C829	87-010-196-080		CHIP CAPACITOR,0.1-25	R140	83-XM1-617-080		C-COIL, BK2125HM601
C959	87-010-196-080		CHIP CAPACITOR,0.1-25	R150	87-010-178-080		CHIP CAP 1000P
C960	87-010-196-080		CHIP CAPACITOR,0.1-25	R152	87-010-178-080		CHIP CAP 1000P
C961	87-010-152-080		C-CAP,S 8P-50 CH	R165	87-A00-257-080		RES,M/F 0.15-1W J
C967	87-010-197-080		CAP, CHIP 0.01 DM	R166	87-A00-257-080		RES,M/F 0.15-1W J
C968	87-010-197-080		CAP, CHIP 0.01 DM	R202	87-010-322-080		C-CAP,S 100P-50 CH
C972	87-012-368-080		C-CAP,S 0.1-50 F	R231	87-A00-258-080		RES,M/F 0.22-1W J
C973	87-012-349-080		C-CAP,S 1000P-50 CH	R232	87-A00-258-080		RES,M/F 0.22-1W J
C974	87-010-322-080		C-CAP,S 100P-50 CH	R233	87-A00-258-080		RES,M/F 0.22-1W J
C977	87-012-153-080		C-CAP,S 120P-50 CH	R234	87-A00-258-080		RES,M/F 0.22-1W J
C981	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z	R265	87-A00-258-080		RES,M/F 0.22-1W J
C985	87-010-178-080		CHIP CAP 1000P	R266	87-A00-258-080		RES,M/F 0.22-1W J
C989	87-012-276-080		CAP, CHIP SS 1500 PBK	R392	87-012-349-080		C-CAP,S 1000P-50 CH
C994	87-012-165-080		CAP 3P	R467	87-022-607-010		RES,M/F 0.47-1W J
C995	87-012-368-080		C-CAP,S 0.1-50 F	R468	87-A00-420-080		C-RES,S 100K-1/10W B
C996	87-012-368-080		C-CAP,S 0.1-50 F	R469	87-022-355-080		C-RES,S10K-1/10W F
C997	87-012-368-080		C-CAP,S 0.1-50 F	R470	87-A00-420-080		C-RES,S 100K-1/10W B
C998	87-012-368-080		C-CAP,S 0.1-50 F	R471	87-A00-420-080		C-RES,S 100K-1/10W B
C999	87-012-368-080		C-CAP,S 0.1-50 F	R472	87-A00-420-080		C-RES,S 100K-1/10W B
CF801	87-008-261-010		FILTER, SFE10.7MA5-A	R942	87-A91-667-080		C-F-BEAD, U BLM11B102S
CF802	87-008-261-010		FILTER, SFE10.7MA5-A	R949	87-A91-667-080		C-F-BEAD, U BLM11B102S
CN101	8Z-DF8-615-010		CONN,40P H IMSA-9031B	R972	87-A91-667-080		C-F-BEAD, U BLM11B102S
CN102	87-009-034-010		CONN,6P PH V	R973	87-A91-667-080		C-F-BEAD, U BLM11B102S
CN104	87-009-349-010		CONN,6P PH H	ARY2	87-A90-976-010		RELAY,AC12V SDT-S-112LMR
CN151	87-009-034-010		CONN,6P PH V	SFR451	87-024-355-080		SFR,33K DIA6 H
CN201	87-009-034-010		CONN,6P PH V	SFR452	87-024-355-080		SFR,33K DIA6 H
CN202	87-009-347-010		CONN,4P PH H WHT	T981	87-A91-639-010		TRANS,BALUN FM
CN301	87-A60-620-010		CONN,3P V 2MM JMT	WH1	87-A90-510-010		HLDR,WIRE 2.5-9P
CN351	87-A60-625-010		CONN,8P V 2MM JMT	X101	8A-AJ1-619-080		VIB,XTAL 33MHZ AT-49
CN451	87-009-032-010		CONNECTOR,4P YEL	X102	87-A70-236-040		C-VIB,XTAL 33.8688MHZ DSO751SA
CN452	87-A60-457-010		CONN,4P V TID-X	X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
CN601	88-NF9-657-010		CONN,30P H BLK TYK-B(X)				
CN603	87-099-014-010		CONN,12P 6216 V	CD-R C.B			
CNA1	8Z-NF8-669-110		CONN ASSY,9P VH				
FB602	87-008-372-080		FILTER, EMI BL OIRNI	C101	87-012-368-080		C-CAP,S 0.1-50 F
FFE801	A8-6ZA-19C-170		6ZA-1 YFEENC	C102	87-012-368-080		C-CAP,S 0.1-50 F
J201	87-A60-929-010		JACK,DIA6.3 BLK ST W/S TAI	C103	87-012-368-080		C-CAP,S 0.1-50 F

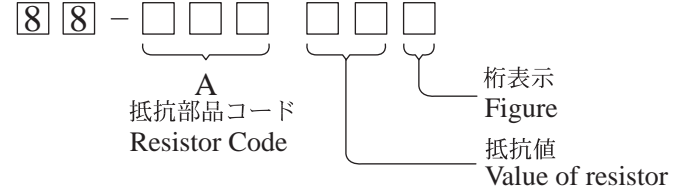
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C104	87-012-368-080	C-CAP,S	0.1-50 F	C1007	87-018-125-080		CAP,TC U 330P-50 K
C105	87-012-368-080	C-CAP,S	0.1-50 F	C1008	87-018-120-080		CAP,TC U 120P-50 K
C106	87-010-401-040	CAP,E	1-50 SME	C1011	87-010-322-080		C-CAP,S 100P-50 J CH
C107	87-012-368-080	C-CAP,S	0.1-50 F	CN101	87-A60-458-010		CONN,40P V IMSA-9031B
C108	87-012-368-080	C-CAP,S	0.1-50 F	CN102	87-009-034-010		CONN,6P PH V
C110	87-012-368-080	C-CAP,S	0.1-50 F	CN201	87-009-038-010		CONN,10P PH
C113	87-012-368-080	C-CAP,S	0.1-50 F	CN202	87-009-038-010		CONN,10P PH
C114	87-012-368-080	C-CAP,S	0.1-50 F	CN451	8A-AJ1-637-010		CONN ASSY,4P 240MM-PWLMT
C115	87-012-368-080	C-CAP,S	0.1-50 F	CN452	87-A60-457-010		CONN,4P V TID-X
C116	87-012-368-080	C-CAP,S	0.1-50 F	CNA101	8A-AJ1-632-010		CONN ASSY,40P 140MM-IDE
C117	87-012-368-080	C-CAP,S	0.1-50 F	CNA103	8A-AJ1-633-010		CONN ASSY,7P 270MM-PWM
C118	87-012-368-080	C-CAP,S	0.1-50 F	CNA452	8A-AJ1-631-010		CONN ASSY,4P 270MM-PD
C119	87-012-154-080	C-CAP,S	150P-50 J CH GRM	JR201	87-A91-685-080		C-F-BEAD,BLM11B121SB
C120	87-012-368-080	C-CAP,S	0.1-50 F	L102	83-XM1-617-080		C-COIL,BK2125HM601
C121	87-012-368-080	C-CAP,S	0.1-50 F	L103	83-XM1-617-080		C-COIL,BK2125HM601
C122	87-010-154-080	CAP	CHIP,10P	L105	87-A91-502-080		C-F-BEAD,BLM11B750SA
C123	87-010-154-080	CAP	CHIP,10P	L106	83-XM1-617-080		C-COIL,BK2125HM601
C124	87-010-831-080	C-CAP,U	0.1-16F	L107	83-XM1-617-080		C-COIL,BK2125HM601
C125	87-010-831-080	C-CAP,U	0.1-16F	L108	83-XM1-617-080		C-COIL,BK2125HM601
C126	87-010-831-080	C-CAP,U	0.1-16F	L112	83-XM1-617-080		C-COIL,BK2125HM601
C127	87-012-368-080	C-CAP,S	0.1-50 F	L113	83-XM1-617-080		C-COIL,BK2125HM601
C128	87-012-368-080	C-CAP,S	0.1-50 F	L114	83-XM1-617-080		C-COIL,BK2125HM601
C129	87-012-368-080	C-CAP,S	0.1-50 F	L115	83-XM1-617-080		C-COIL,BK2125HM601
C130	87-012-368-080	C-CAP,S	0.1-50 F	L116	83-XM1-617-080		C-COIL,BK2125HM601
C131	87-012-368-080	C-CAP,S	0.1-50 F	L117	83-XM1-617-080		C-COIL,BK2125HM601
C132	87-010-252-080	CAP,ELECT	1000-6.3V	L118	83-XM1-617-080		C-COIL,BK2125HM601
C133	87-010-391-040	CAP,E	10-35 SME	L120	83-XM1-617-080		C-COIL,BK2125HM601
C137	87-012-368-080	C-CAP,S	0.1-50 F	L121	87-A50-190-080		C-COIL,S BLM21A102S
C138	87-012-368-080	C-CAP,S	0.1-50 F	L122	87-A50-190-080		C-COIL,S BLM21A102S
C201	87-010-197-080	CAP,CHIP	0.01 DM	L123	83-XM1-617-080		C-COIL,BK2125HM601
C203	87-012-368-080	C-CAP,S	0.1-50 F	L125	83-XM1-617-080		C-COIL,BK2125HM601
C204	87-016-526-080	C-CAP,S	0.47-16 BK	L126	83-XM1-617-080		C-COIL,BK2125HM601
C205	87-010-189-080	C-CAP,S	8200P-50 B	L201	87-005-780-080		C-COIL,10UH FLC32C
C206	87-012-368-080	C-CAP,S	0.1-50 F	L202	87-005-780-080		C-COIL,10UH FLC32C
C207	87-010-994-080	C-CAP,S	680P-50 J CH	R150	87-010-178-080		C-CAP,S 1000P-50 KB
C208	88-XMY-614-080	C-CAP,TN	10U-10 TCFG A	R202	87-010-322-080		C-CAP,S 100P-50 J CH
C209	87-012-368-080	C-CAP,S	0.1-50 F	R210	83-XM1-617-080		C-COIL,BK2125HM601
C210	87-012-368-080	C-CAP,S	0.1-50 F	R468	87-A00-420-080		C-RES,S 100K-1/10W B
C211	88-XMY-614-080	C-CAP,TN	10U-10 TCFG A	R469	87-022-355-080		C-RES,S 10K-1/10W F
C235	87-010-182-080	C-CAP,S	2200P-50 B	R470	87-A00-420-080		C-RES,S 100K-1/10W B
C236	87-010-182-080	C-CAP,S	2200P-50 B	R471	87-A00-420-080		C-RES,S 100K-1/10W B
C241	87-012-368-080	C-CAP,S	0.1-50 F	R472	87-A00-420-080		C-RES,S 100K-1/10W B
C454	87-010-805-080	CAP,S	1-16	R932	83-XM1-617-080		C-COIL,BK2125HM601
C455	87-010-805-080	CAP,S	1-16	R941	87-A91-667-080		C-F-BEAD,U BLM11B102S
C456	87-010-552-040	CAP,E	22-16 GAS	R942	87-A91-667-080		C-F-BEAD,U BLM11B102S
C457	87-012-368-080	C-CAP,S	0.1-50 F	R949	87-A91-667-080		C-F-BEAD,U BLM11B102S
C491	87-010-498-040	CAP,E	10-16 M 5L SRE	R972	87-A91-667-080		C-F-BEAD,U BLM11B102S
C492	87-010-498-040	CAP,E	10-16 M 5L SRE	R973	87-A91-667-080		C-F-BEAD,U BLM11B102S
C966	87-010-196-080	CHIP	CAPACITOR,0.1-25	X101	8A-AJ1-619-080		VIB,XTAL 33MHZ AT-49
C967	87-010-197-080	CAP,CHIP	0.01 DM	X102	87-A70-236-040		C-VIB,XTAL 33.8688MHZ DSO751SA
C968	87-010-197-080	CAP,CHIP	0.01 DM				
C971	87-010-178-080	C-CAP,S	1000P-50 KB				
C972	87-010-196-080	CHIP	CAPACITOR,0.1-25				
C974	87-010-322-080	C-CAP,S	100P-50 CH				
C976	87-010-196-080	CHIP	CAPACITOR,0.1-25				
C977	87-010-196-080	CHIP	CAPACITOR,0.1-25				
C978	87-010-196-080	CHIP	CAPACITOR,0.1-25				
C985	87-010-178-080	C-CAP,S	1000P-50 KB				
C992	87-012-191-080	C-CAP,U	68P-50 J CH				
C995	87-010-196-080	CHIP	CAPACITOR,0.1-25				
C997	87-A11-517-080	C-CAP,S	820P-50 K CG				
C998	87-010-196-080	CHIP	CAPACITOR,0.1-25				
C999	87-010-196-080	CHIP	CAPACITOR,0.1-25				
C1000	87-010-193-080	C-CAP,S	0.033-25 ZF				
C1001	87-012-157-080	C-CAP,S	330P-50 J CH				
C1002	87-012-157-080	C-CAP,S	330P-50 J CH				
C1003	87-012-157-080	C-CAP,S	330P-50 J CH				
C1004	87-012-153-080	C-CAP,S	120P-50 J CH				
C1005	87-012-153-080	C-CAP,S	120P-50 J CH				
C1006	87-018-125-080	CAP,TC	U 330P-50 K				

- Regarding connectors, they are not stocked as they are not the initial order items.
The connectors are available after they are supplied from connector manufacturers upon the order is received.

○チップ抵抗部品コード/CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

Chip Resistor Part Coding



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法/Dimensions (mm)			抵抗コード : A Resistor Code : A	
				外形/Form	L	W		t
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
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



ECB

2SJ460
2SK2541
DTC114ES
KTC3199GR



ECB

2SC3331
CSC4115BC



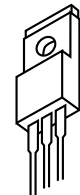
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ECB

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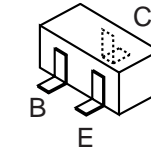
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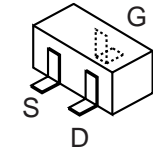
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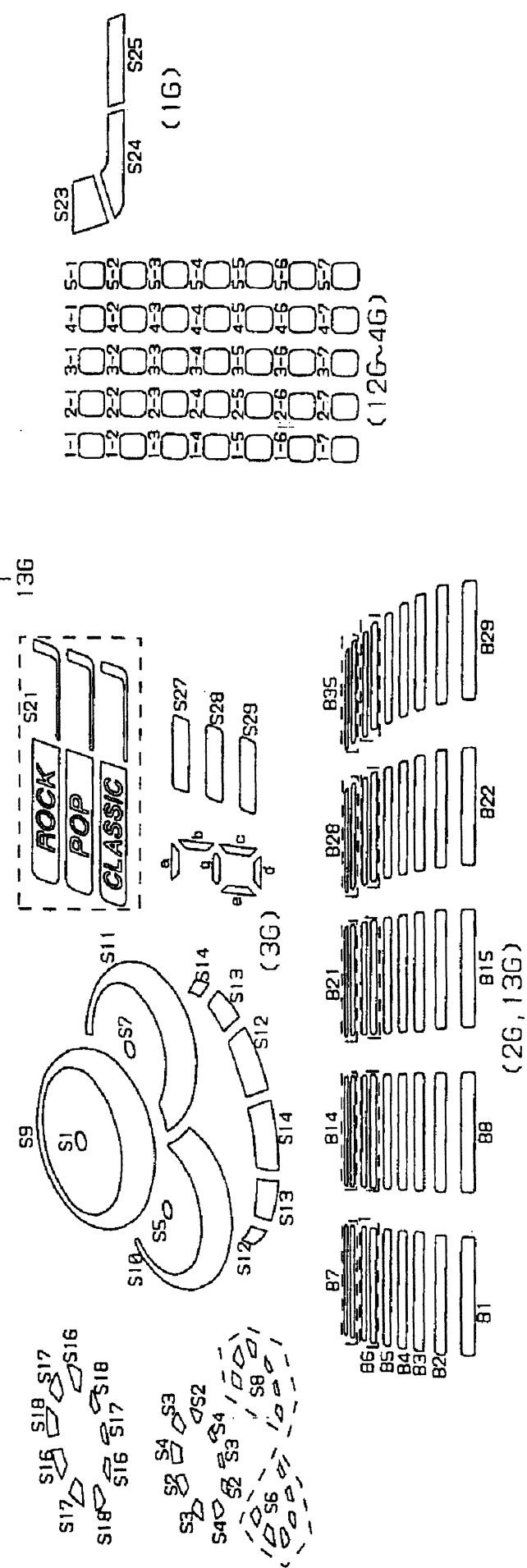
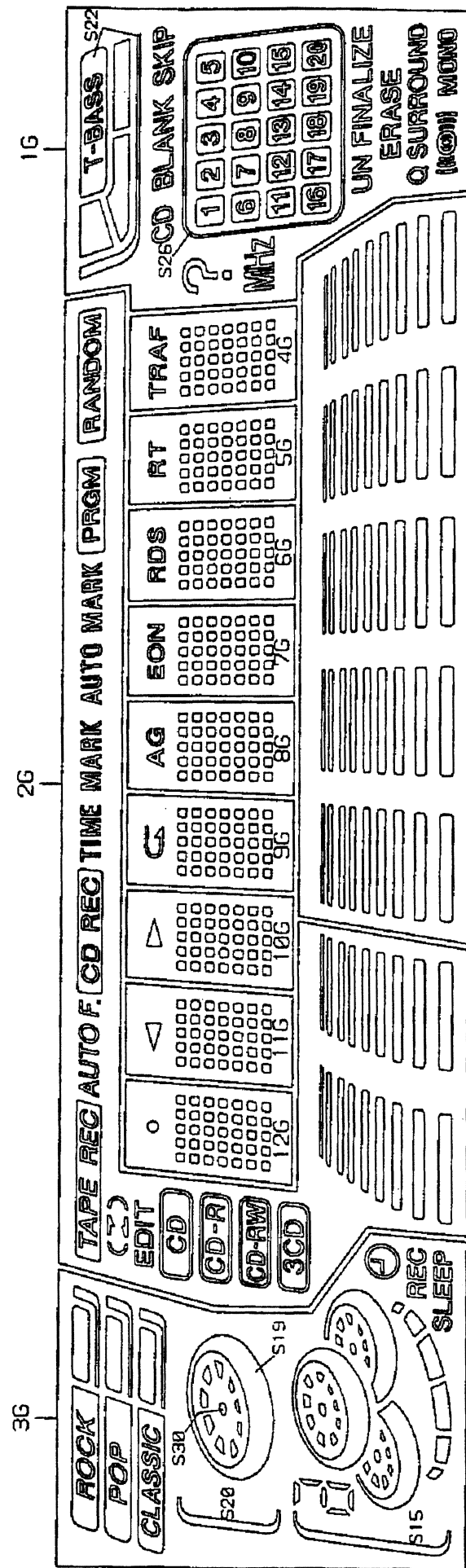
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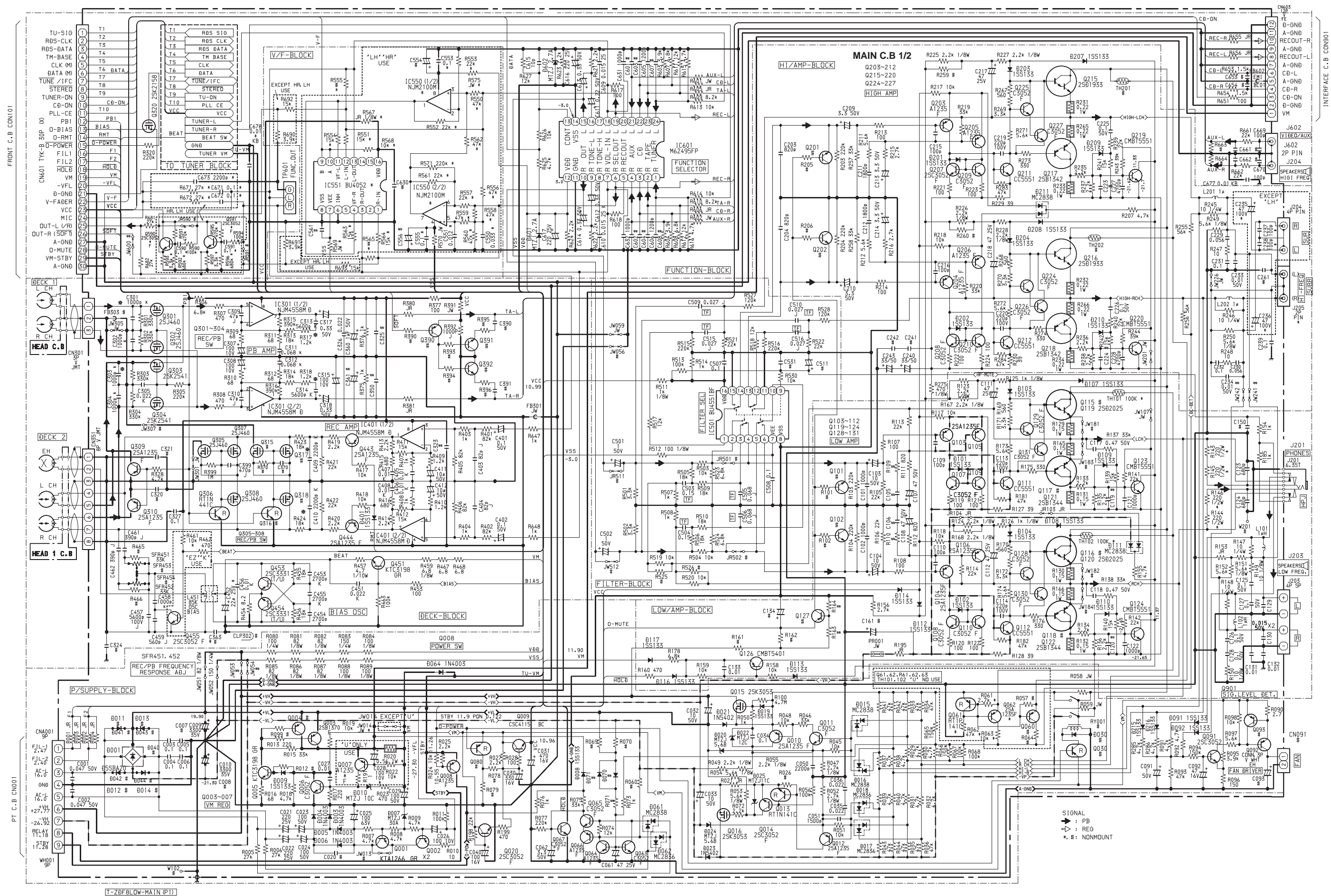
ECB

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DTA114YK
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RT1N141C
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RT1N441C
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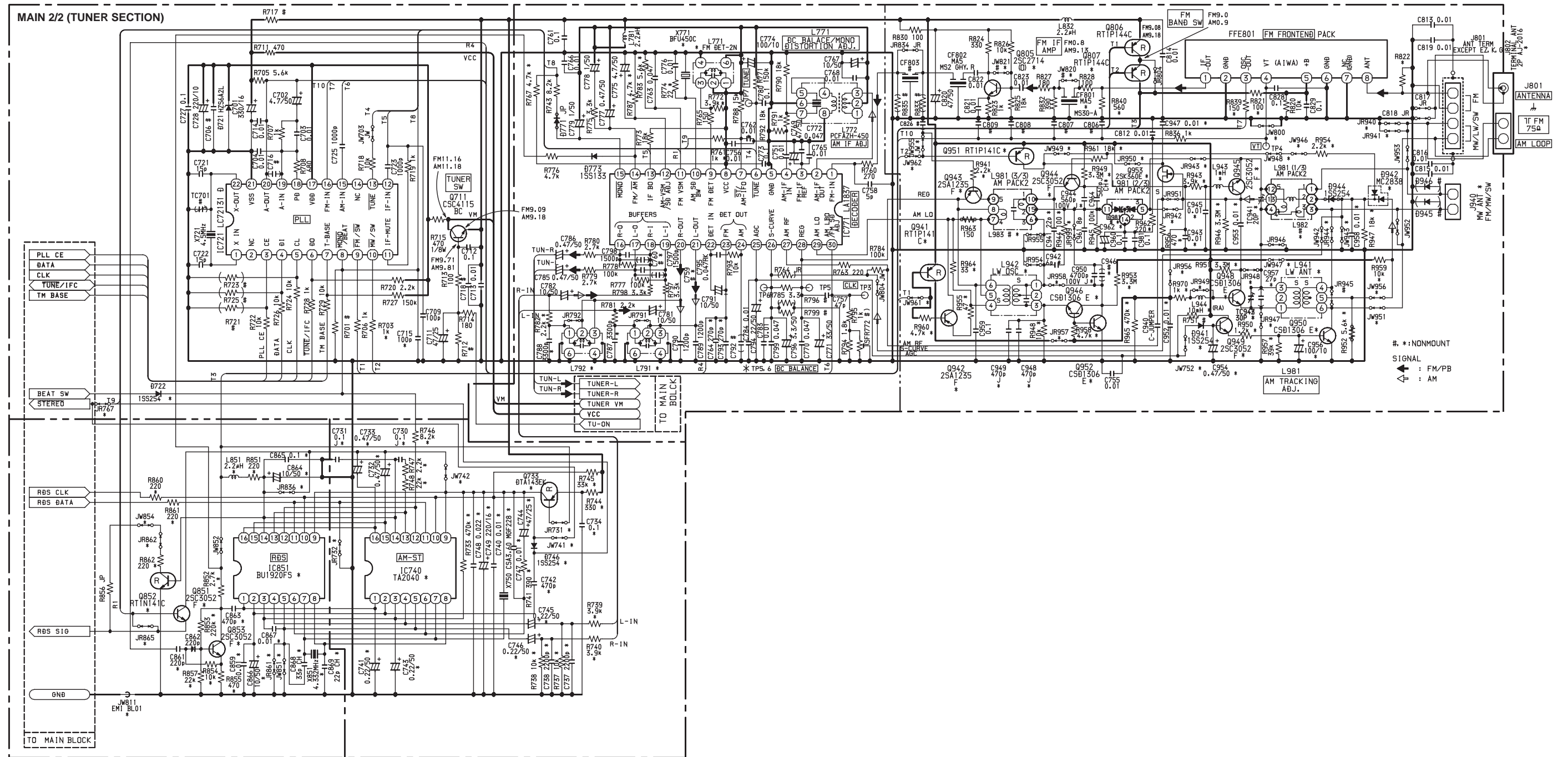


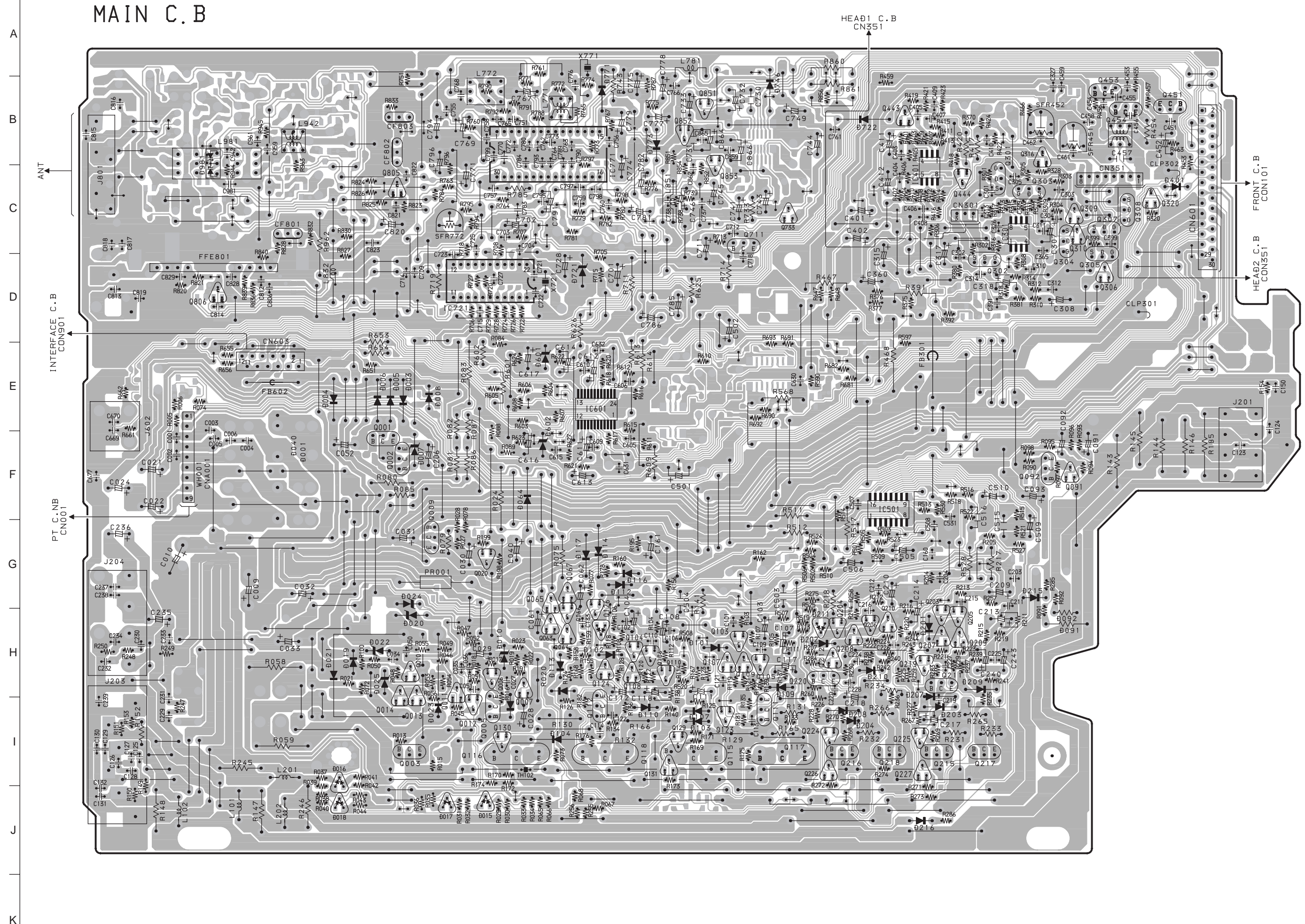
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P1	B1	○	◁	▷	G	AG	EON	RDS	RT	TRAF	SLEEP	B1	S22
P2	B8	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	REC	B8	S23
P3	B15	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	⌚	B2	S24
P4	B22	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	S14	B9	S25
P5	B29	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	S13	B3	CD BLANK SKIP
P6	B2	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	S12	B10	?
P7	B9	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	S11	B4	MHZ
P8	B16	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	S10	B11	S26
P9	B23	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	S9	B5	1
P10	B30	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	S8	B12	2
P11	B3	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	S7	B6	3
P12	B10	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	S6	B13	4
P13	B17	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	S5	B7	5
P14	B24	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	S4	B14	6
P15	B31	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	S3	-	7
P16	B4	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	S2	-	8
P17	B11	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	S1	RANDOM	9
P18	B18	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	d	PRGM	10
P19	B25	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	e	AUTO MARK	11
P20	B32	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	c	TIME MARK	12
P21	B5	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	g	CD REC	13
P22	B12	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	b	AUTO F.	14
P23	B19	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	a	TAPE REC	15
P24	B26	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	S15	⌚	16
P25	B33	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	S20	⌚	17
P26	B6	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	S19	⌚	18
P27	B13	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	S18	EDIT	19
P28	B20	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	S17	CD	20
P29	B27	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	S16	CD-R	UN
P30	B34	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	S21	CD-RW	FINALIZE
P31	B7	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	S27	3CD	ERASE
P32	B14	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	S28	-	Q SURROUND
P33	B21	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	S29	-	(MONI)
P34	B28	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	S30	-	MONO
P35	B35	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	-	-	-
P36	-	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	-	-	-

SCHEMATIC DIAGRAM-1 (MAIN 1/2)

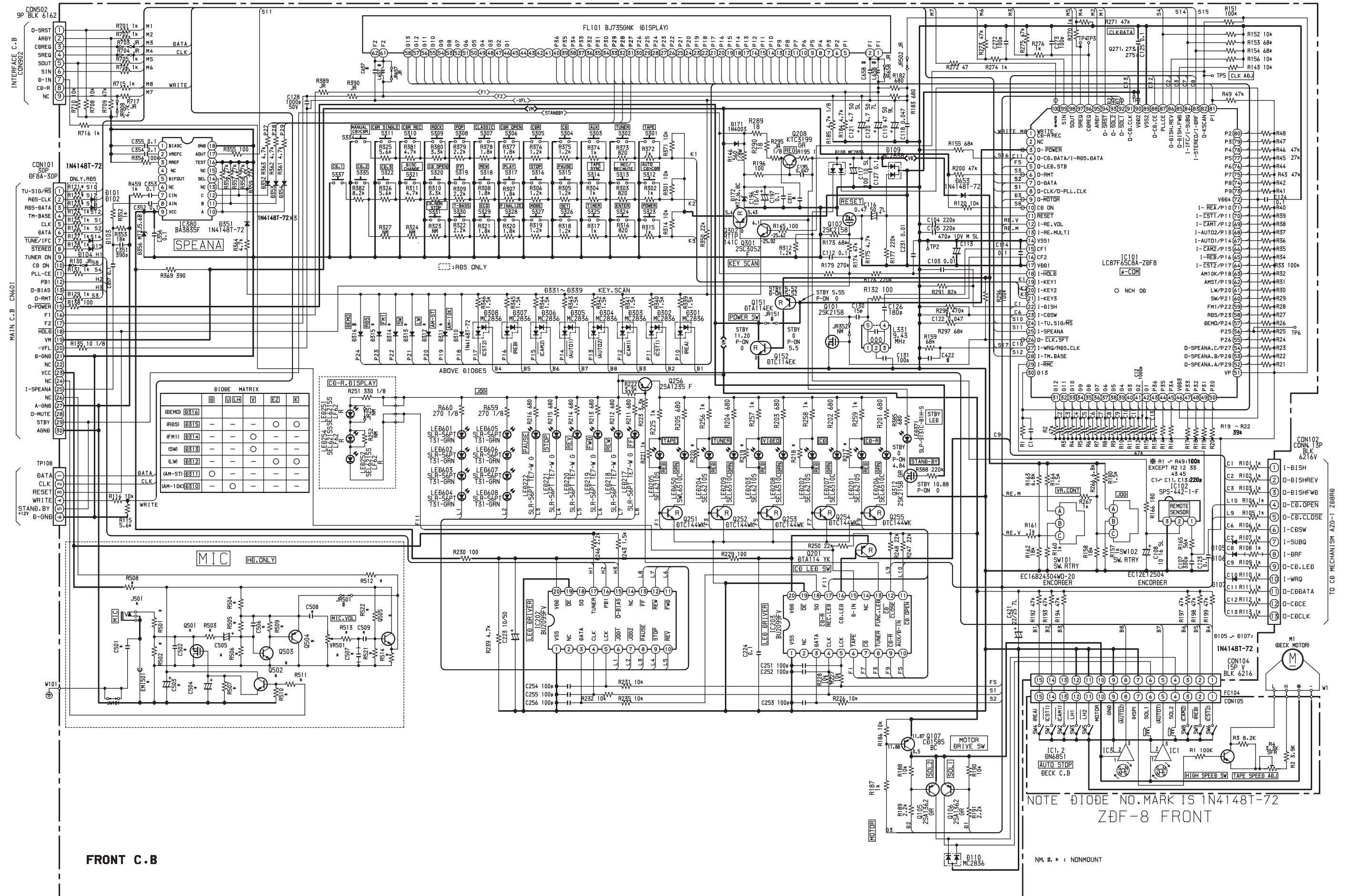


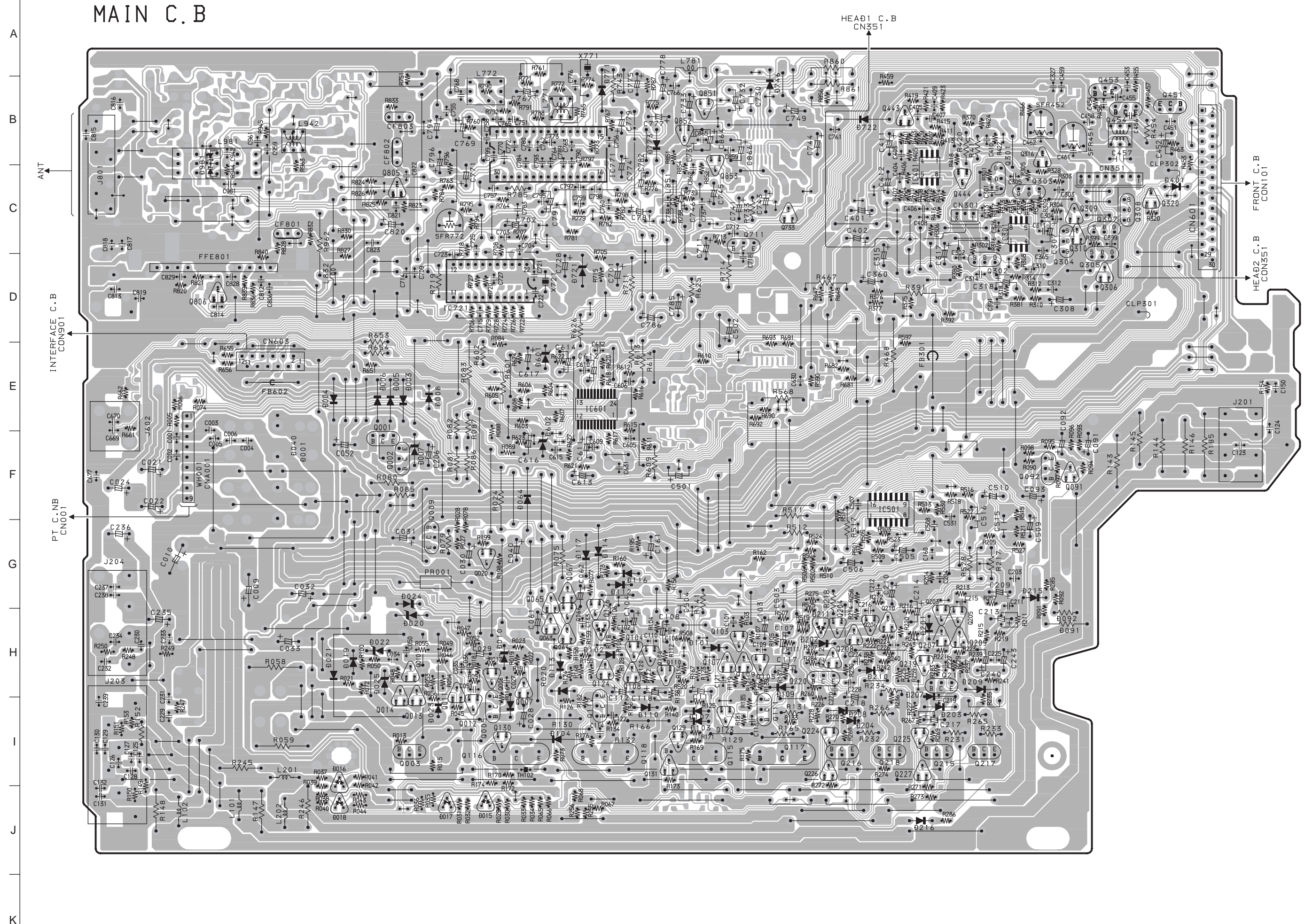
SCHEMATIC DIAGRAM-2 (MAIN 2/2: TUNER SECTION)





SCHEMATIC DIAGRAM-3 (FRONT)





MAIN C.B

HEAD1 C.B
CN351

FRONT C.B
CON101

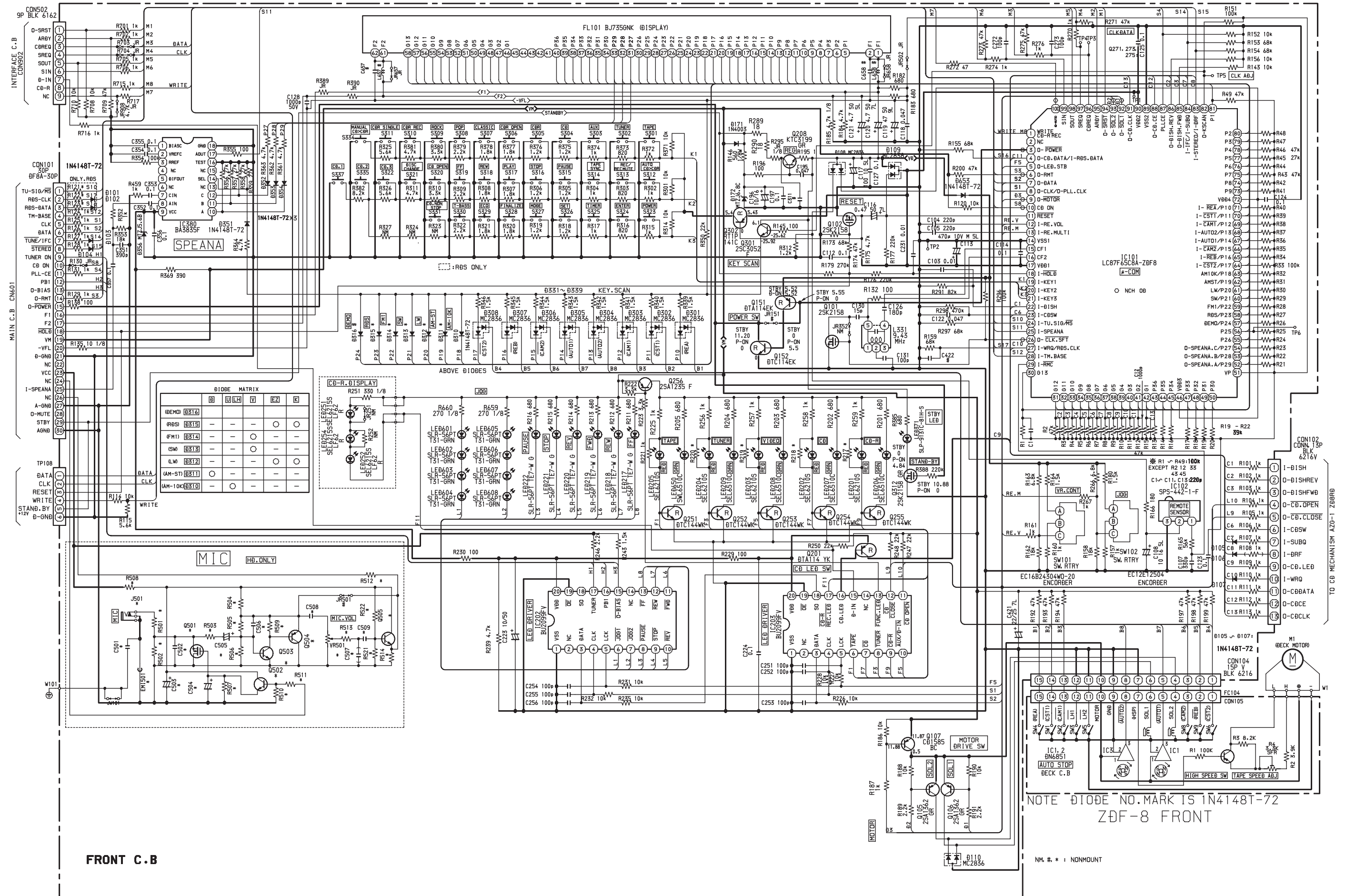
HEAD2 C.B
CON351

ANT

INTERFACE C.B
CON901

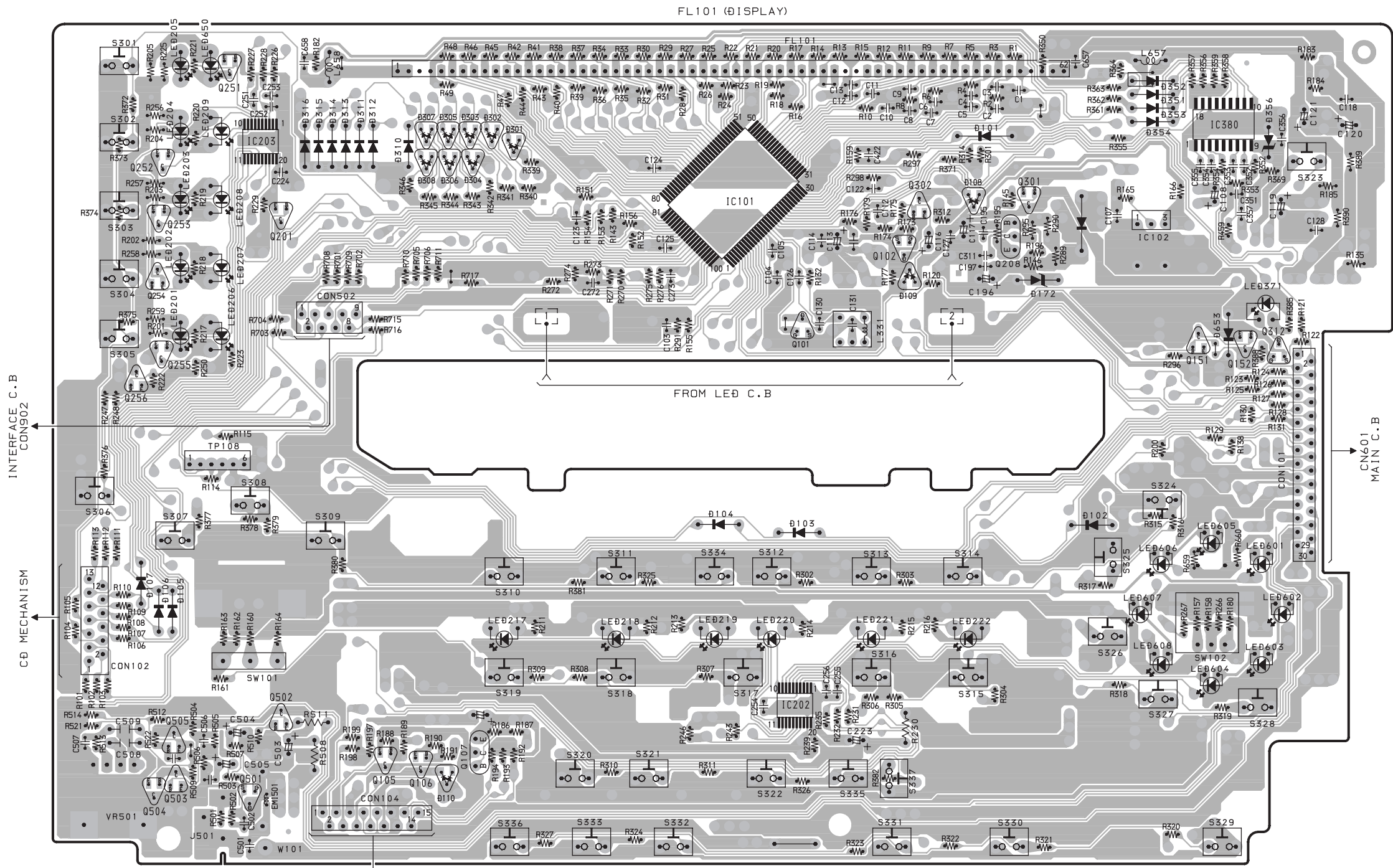
PT C.NB
CN001

SCHEMATIC DIAGRAM-3 (FRONT)

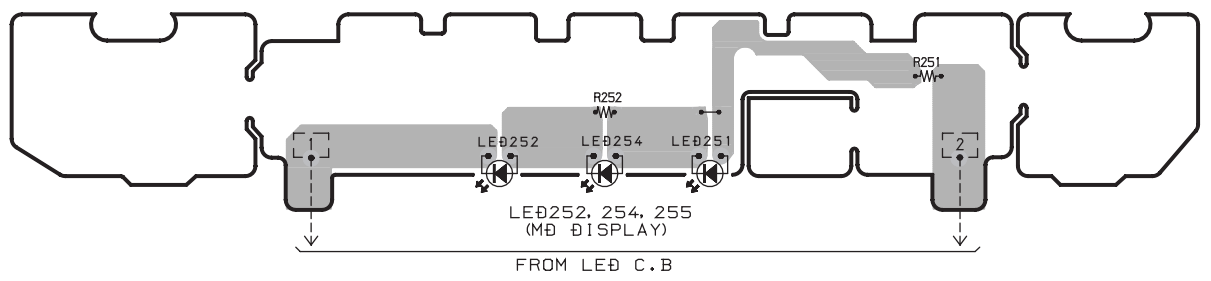


A
B
C
D
E
F
G
H
I
J
K

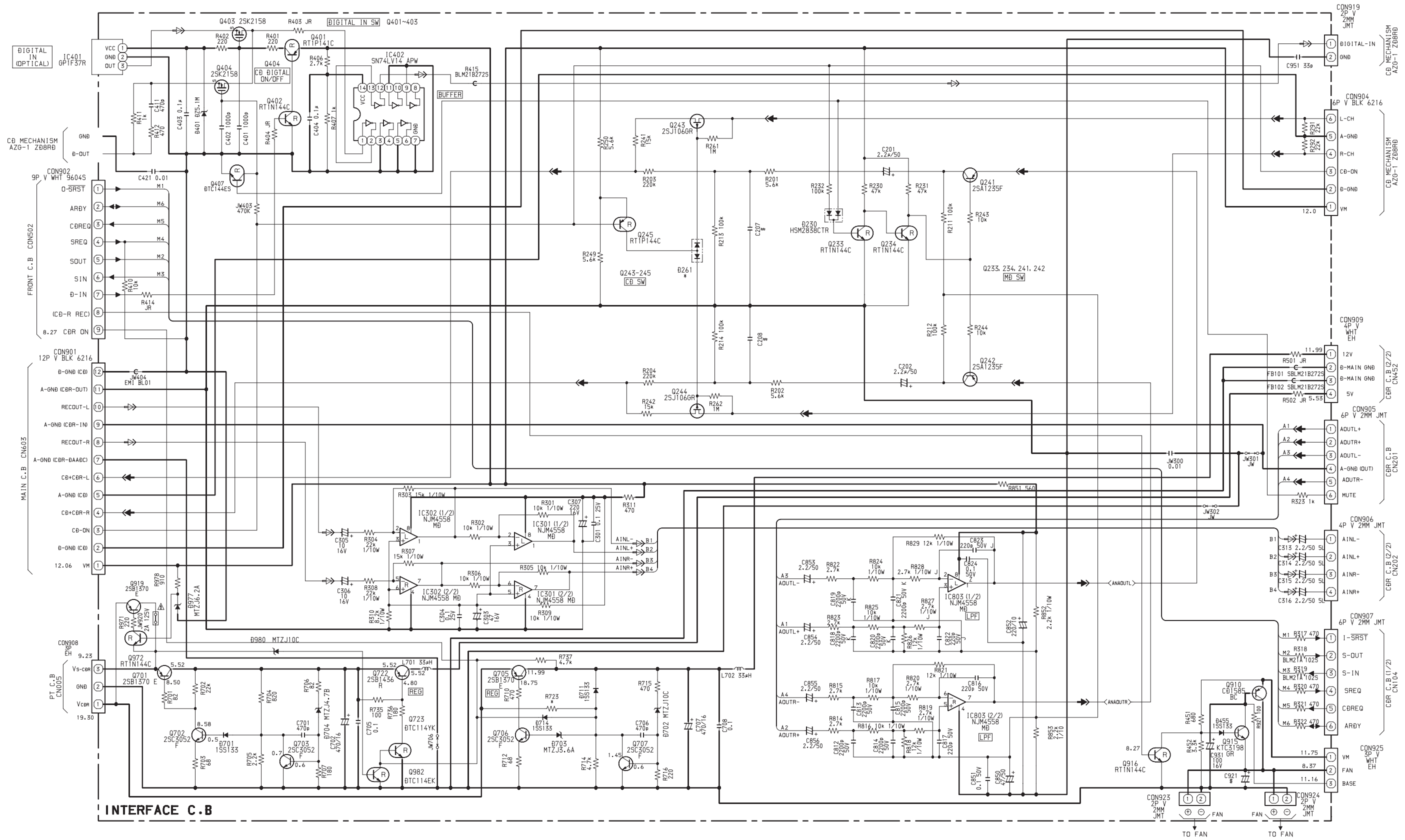
FRONT C. B



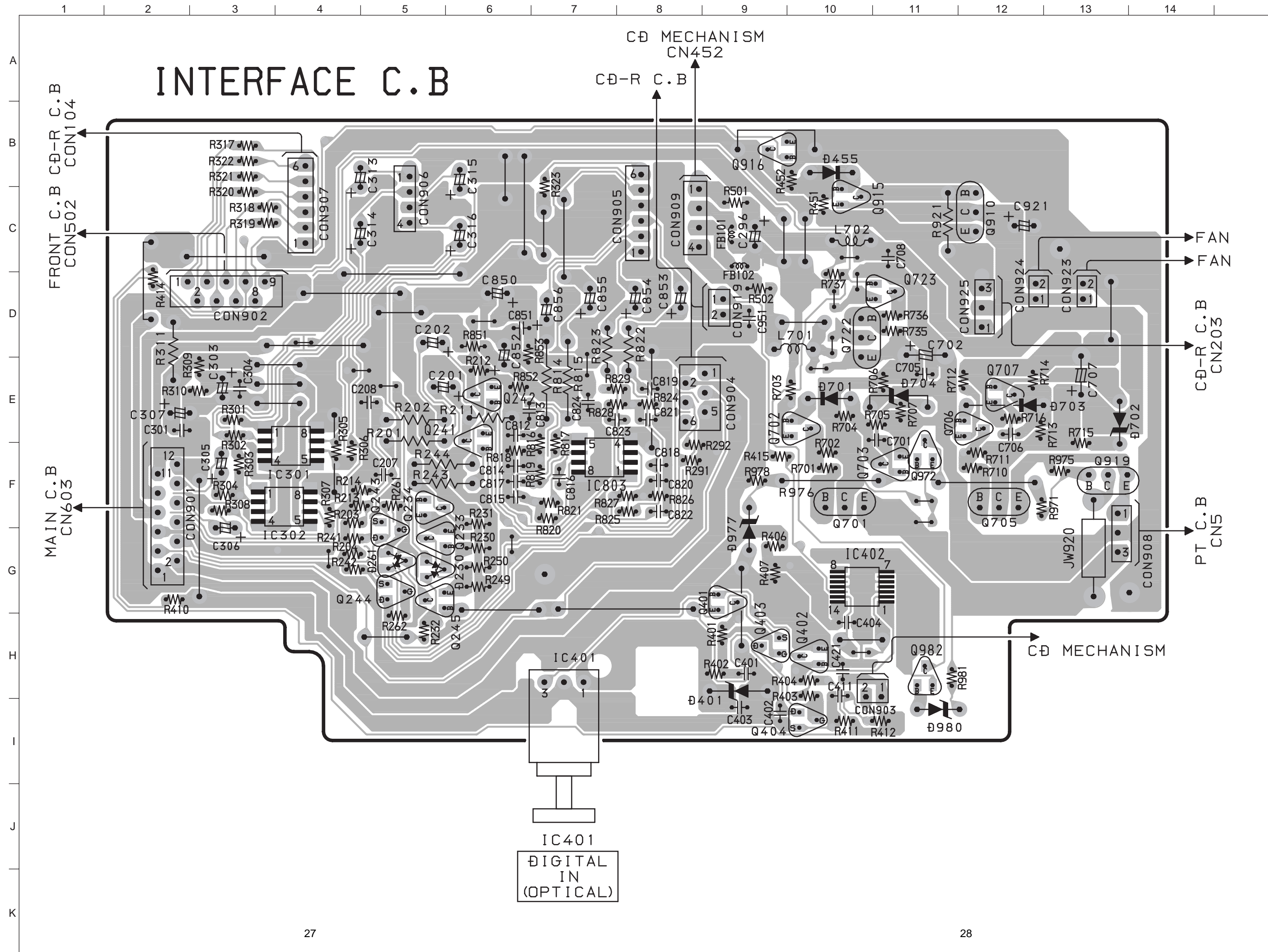
LED C. B



SCHEMATIC DIAGRAM-4 (INTERFACE)



* : NONMOUNT
 SIGNAL
 ➔ : PB (DIGITAL)
 ⇨ : REC (DIGITAL)



INTERFACE C.B

CD MECHANISM
CN452

CD-R C.B

FRONT C.B CD-R C.B
CN502 CN104

MAIN C.B
CN603

FAN
FAN

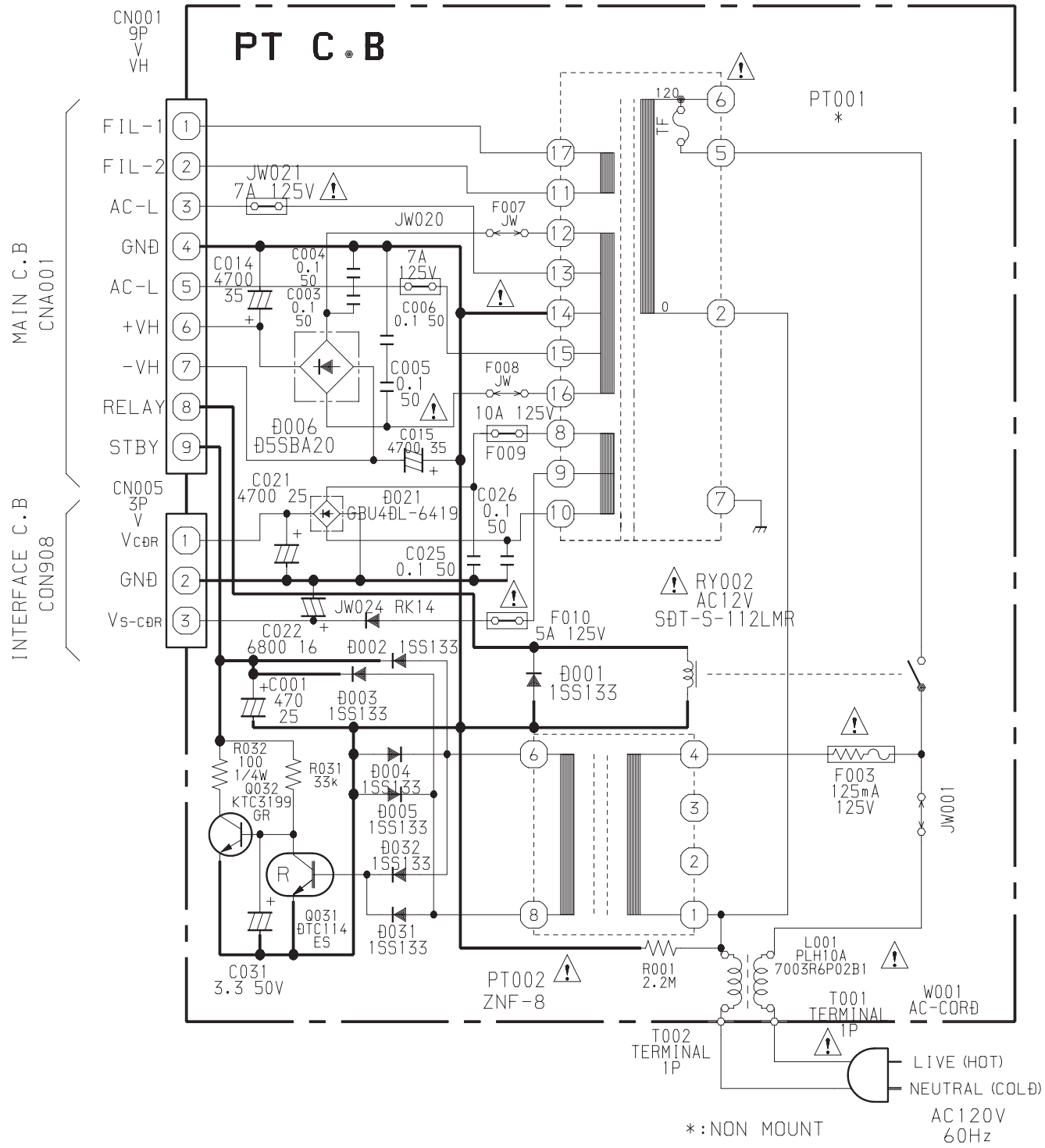
CD-R C.B
CN203

PT C.B
CN5

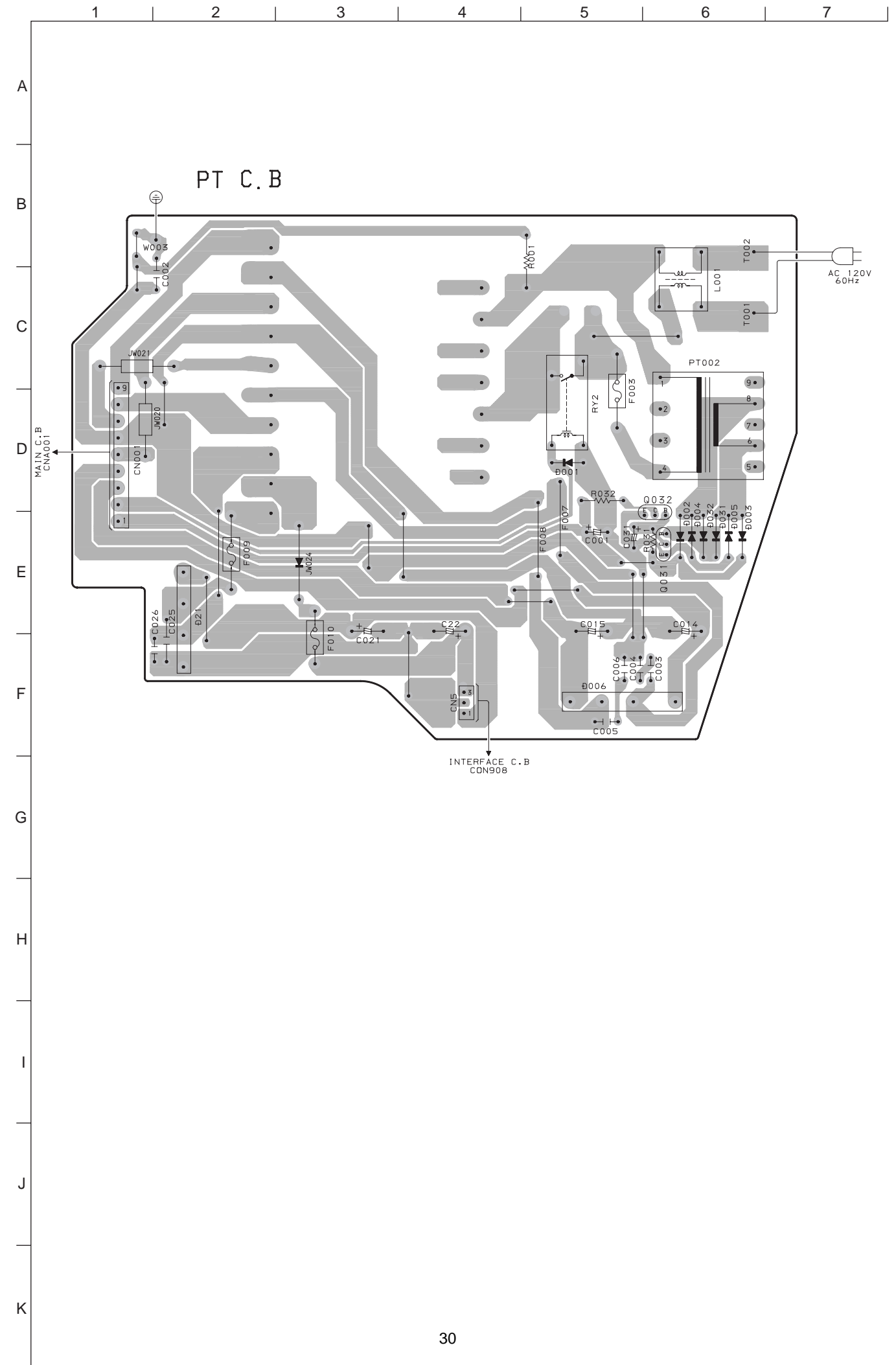
CD MECHANISM

IC401
DIGITAL IN
(OPTICAL)

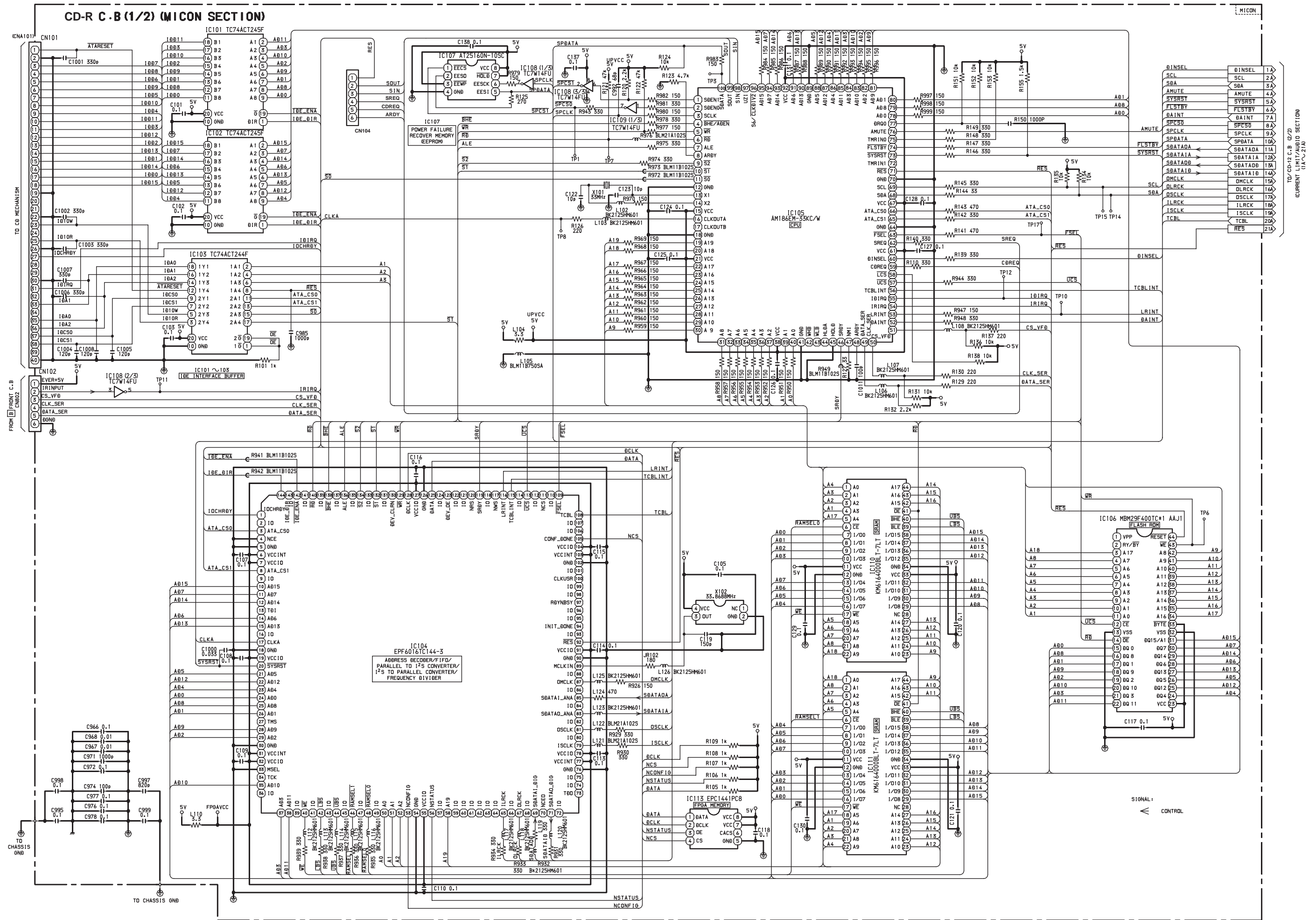
SCHEMATIC DIAGRAM-5 (PT)

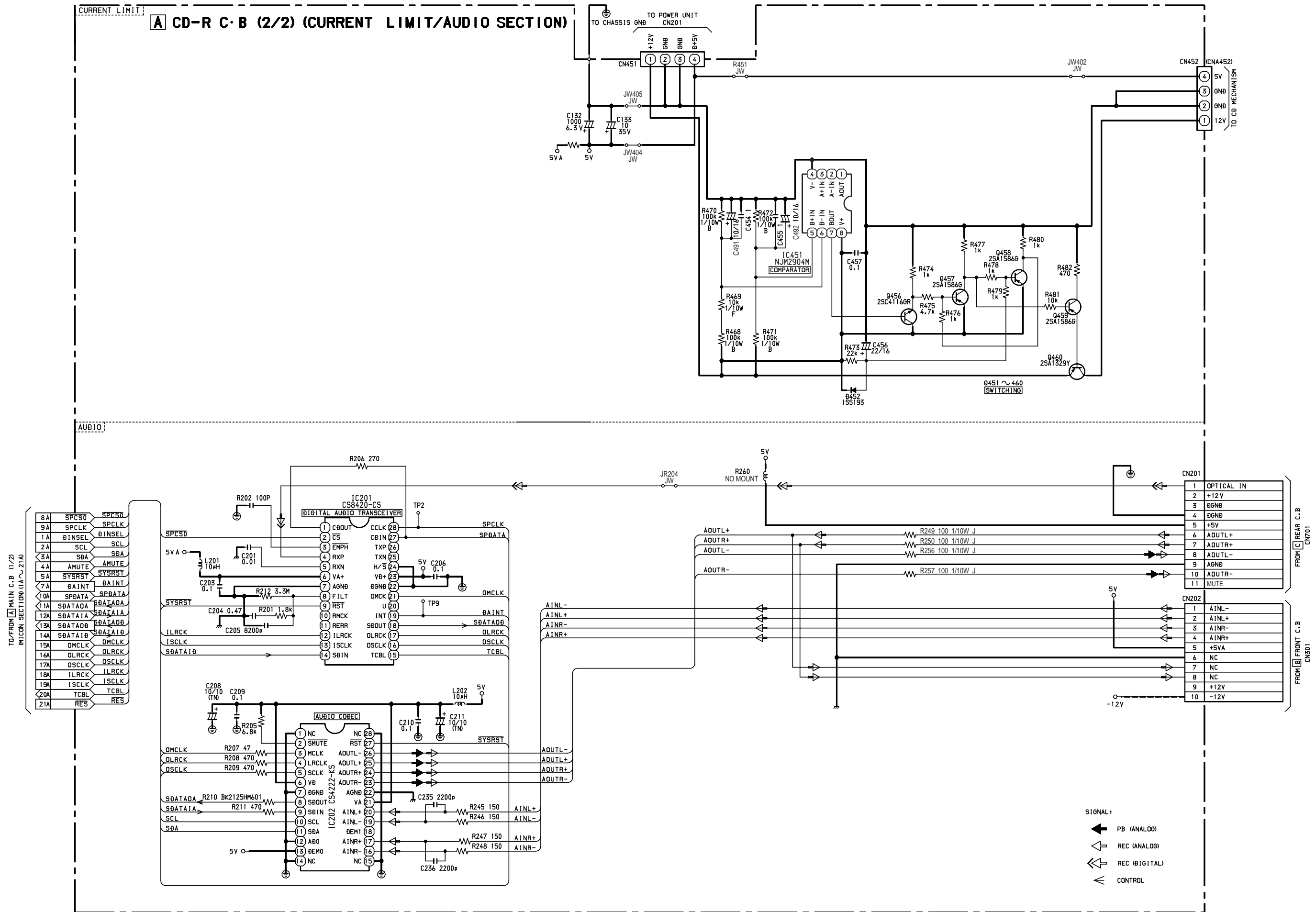


WIRING-4 (PT)



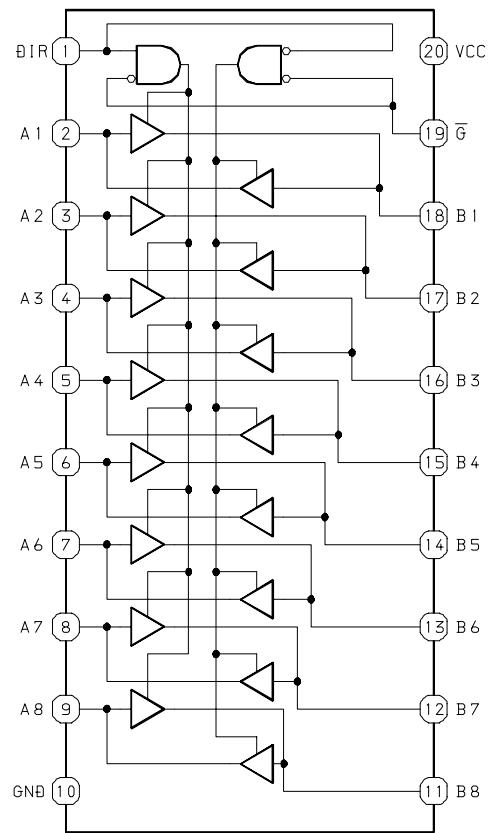
SCHEMATIC DIAGRAM-6 (CD-R 1/2)





IC BLOCK DIAGRAM

IC, TC74ACT245F

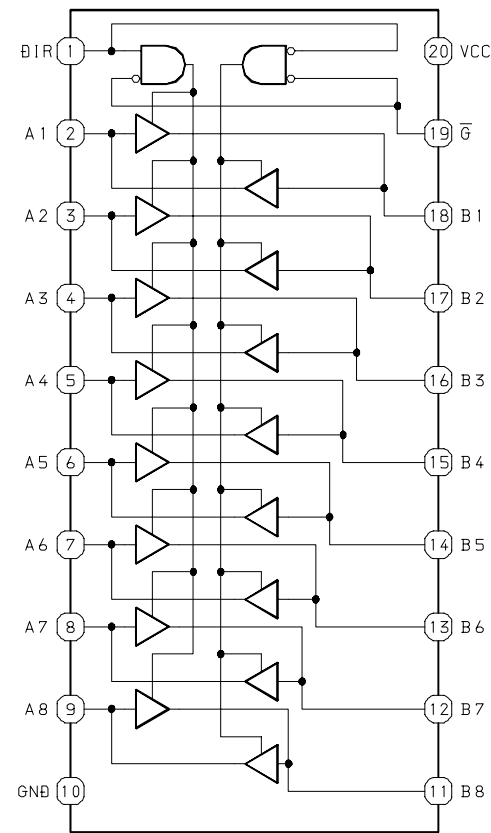


TRUTH TABLE

INPUTS		FUNCTION		OUTPUT
\bar{G}	DIR	A-BUS	B-BUS	
L	L	OUTPUT	INPUT	A=B
L	H	INPUT	OUTPUT	B=A
H	X	HIGH IMPEDANCE		Z

X: DON'T CARE
Z: HIGH IMPEDANCE

IC, TC74ACT244F

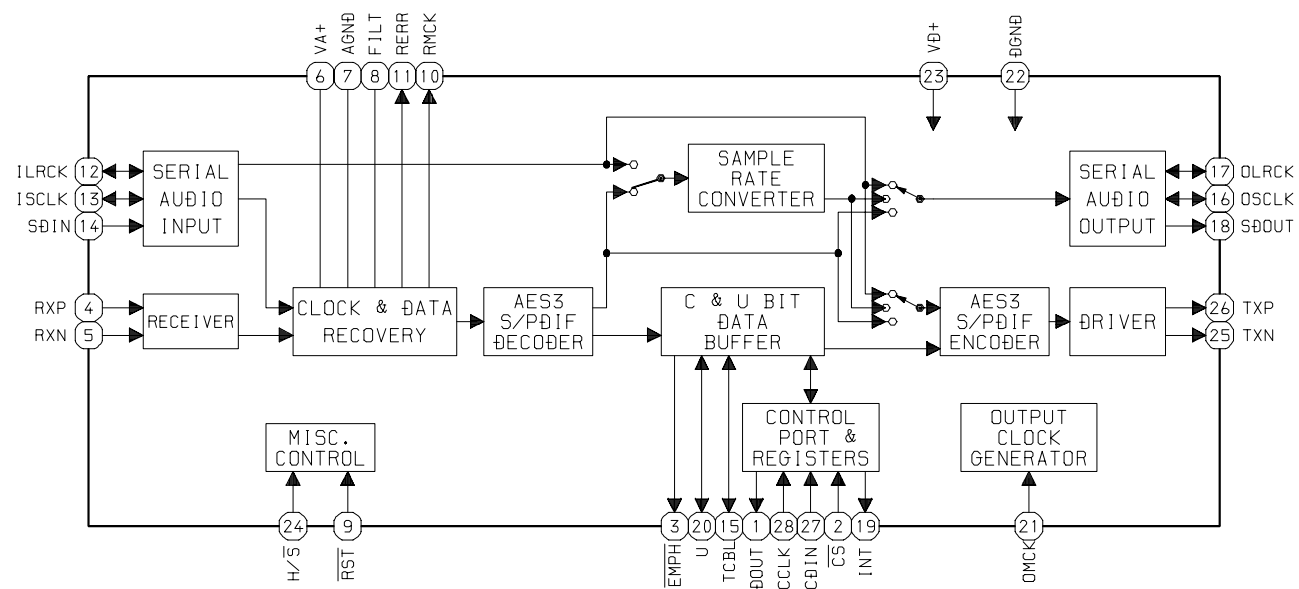


TRUTH TABLE

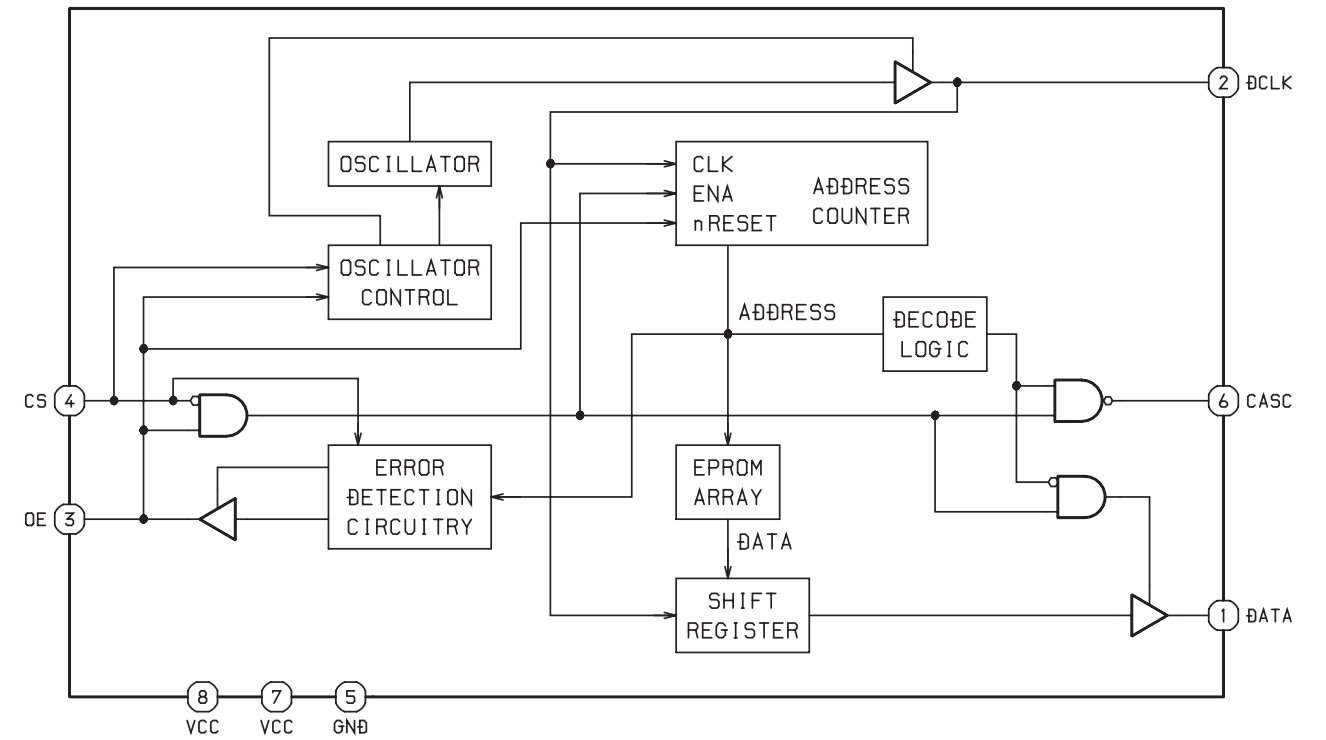
INPUTS		FUNCTION		OUTPUT
\bar{G}	DIR	A-BUS	B-BUS	
L	L	OUTPUT	INPUT	A=B
L	H	INPUT	OUTPUT	B=A
H	X	HIGH IMPEDANCE		Z

X: DON'T CARE
Z: HIGH IMPEDANCE

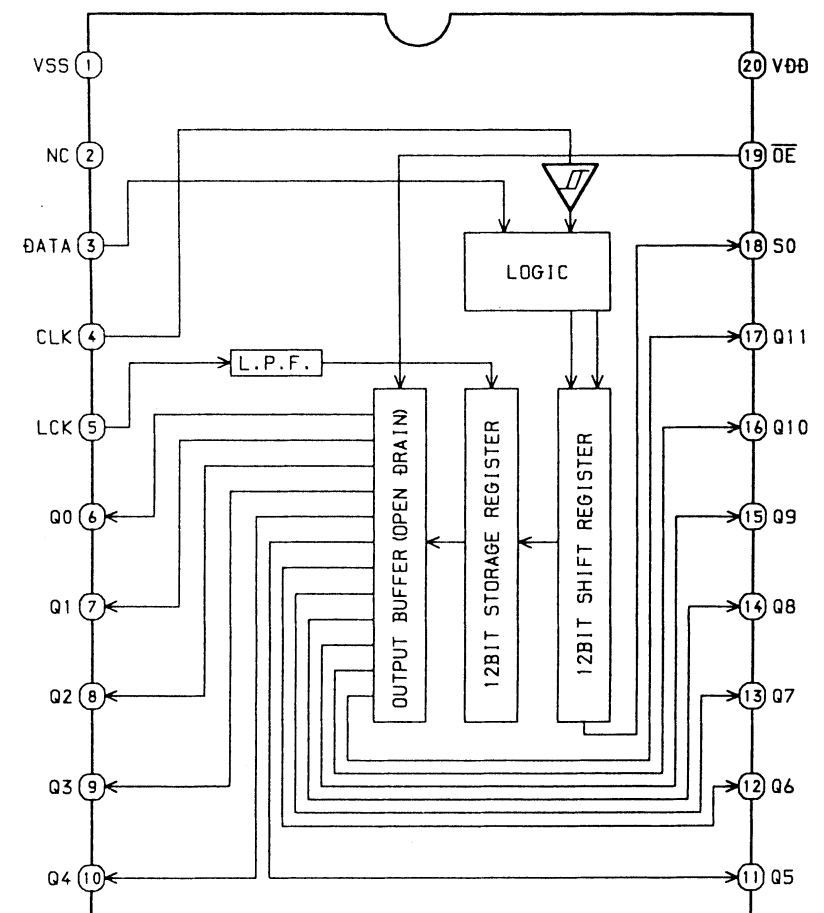
IC, CS8420-CS



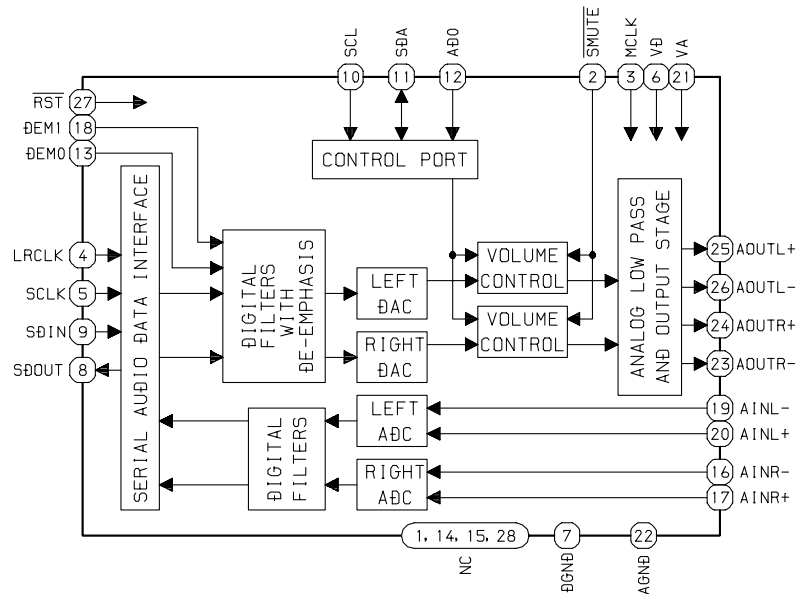
IC, EPC1441PC8



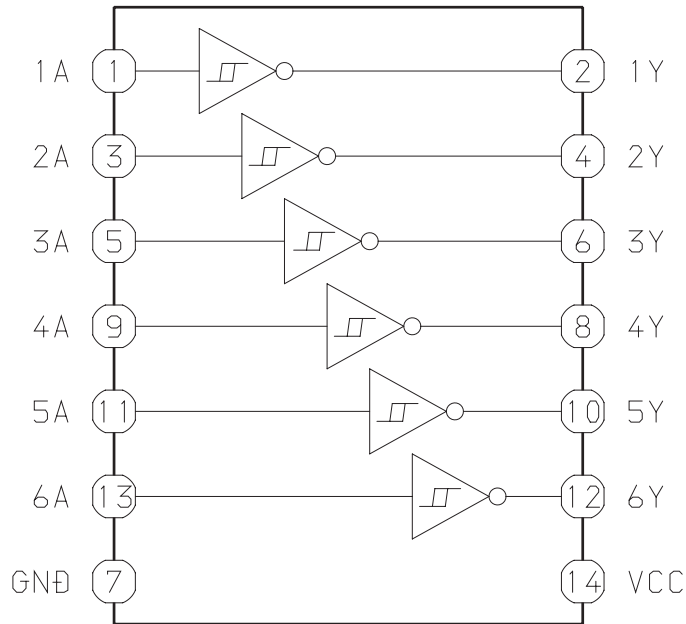
IC, BU2099FV



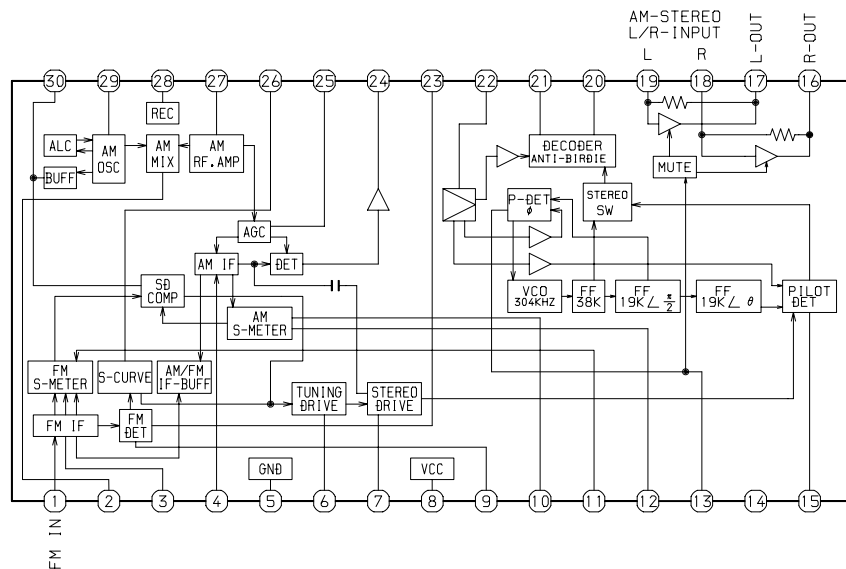
IC, CS-4222-KS



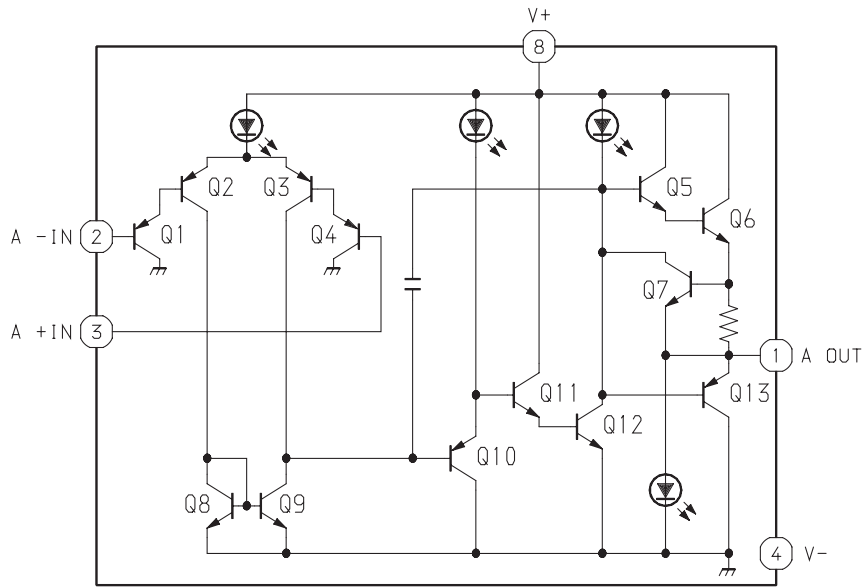
IC, SN74LV14APW



IC, LA1837NL

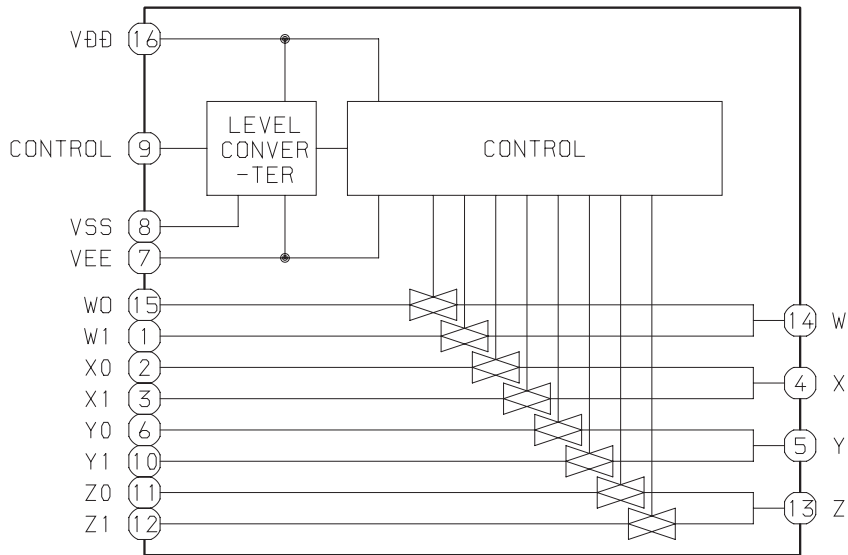


IC, NJM2904M

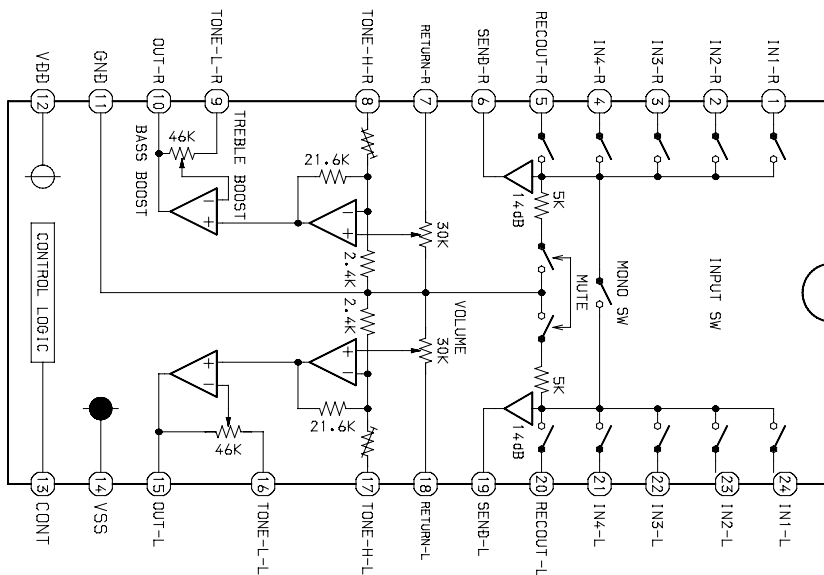


*NOTE: ONLY CHANNEL A IS SHOWN, CHANNEL B IS SIMILAR TO CHANNEL A.

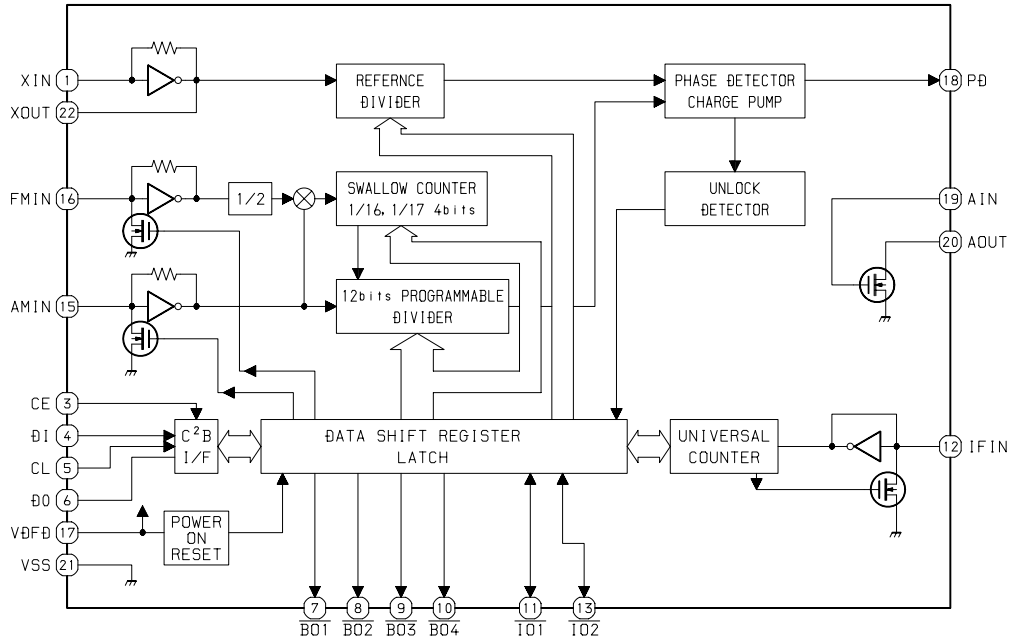
IC, BU4551BF



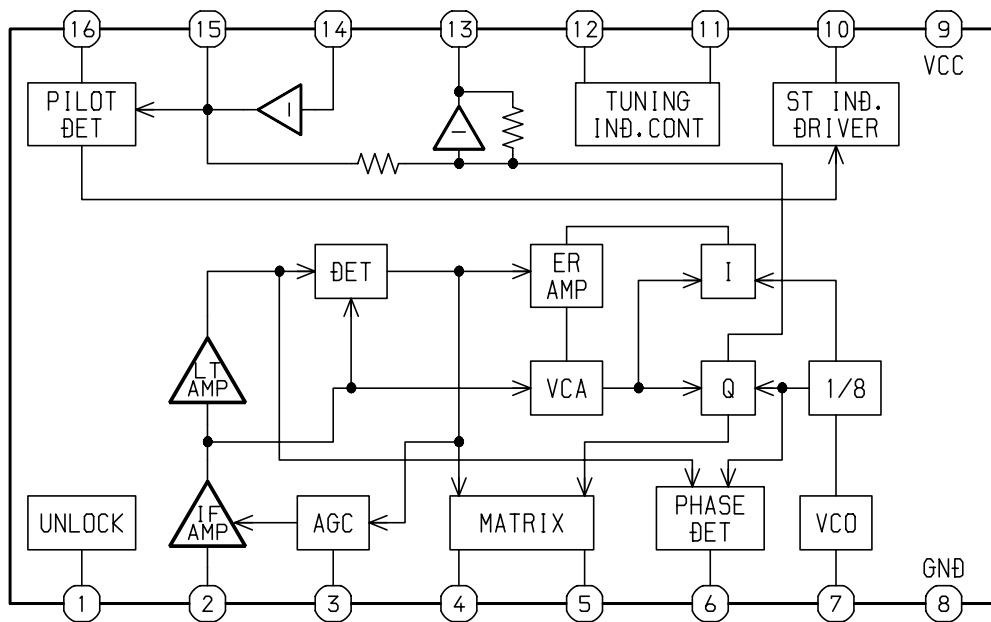
IC, M62495FP



IC, LC7231D



IC, TA2040AF



IC DESCRIPTION
IC, LC87F65C8A-DF8

Pin No.	Pin Name	I/O	Description
1	WRITE CD-R REC	I	Flash MICCCM write control input.
2	NC	—	Not connected.
3	O-POWER	O	System power supply ON/OFF output pin.
4	O-CD.DATA/ I-RDS.DATA	O/I	CD control data output/RDS data input.
5	O-LED.STB	O	Strobe output for shift register IC.
6	O-RMT	O	REC MUTE output.
7	O-DATA	O	Function IC (M62445AFP)/TUNER PLL control data output.
8	O-CLK/O-PLL.CLK	O	Function IC (M62445AFP)/TUNER PLL clock output.
9	O-MOTOR	O	Tape deck motor ON/OFF output.
10	CD ON	O	CD control output.
11	RESET	—	Reset terminal.
12	I-RE.VOL	—	Volume JOG A/D input.
13	I-RE.MULTI	I	Multi JOG A/D input.
14	VSS1	—	Connected to GND.
15	CF1	—	9.43MHz oscillator circuit.
16	CF2		
17	VDD1	—	Connected to VDD (Backup).
18	I-HOLD	I	Power-failure detection A/D input pin.
19	I-KEY-1	I	KEY-1 A/D input.
20	I-KEY-2	I	KEY-2 A/D input.
21	I-KEY-3	I	KEY-3 A/D input.
22	I-DISH	I	CD turntable rotation input.
23	I-CDSW	I	CD switch detect A/D input.
24	ITU-SIG/MS	I	RDS tuning signal/Deck music sensor input A/D input.
25	I-SPEANA	I	Spectrum analyzer level A/D input.
26	O-CLK.SHIFT	O	Microcomputer clock shift output.
27	I-WRQ/RDS-CLK	I	CD control WRQ input/RDS clock input.
28	I-TIM-BASE	I	Tuner time base (8Hz) input.
29	I-RMC	I	System remote control input.
30-42	G13-G1	O	FL grid (G13-G1) output.
43-45	P36-P34	O	FL segment (P36-P34) output.
46	VDD3	—	Connected to VDD (for FL).
47-50	P33-P30	O	FL segment (P33-P30) output.
51	VP	—	Connected to -VFL.
52	P29/O-SPEANA.A	O	FL segment (P29) output/Spectrum analyzer band switch output (A).
53	P28/O-SPEANA.B	O	FL segment (P28) output/Spectrum analyzer band switch output (B).
54	P27/O-SPEANA.C	O	FL segment (P27) output/Spectrum analyzer band switch output (C).
55	P26	O	FL segment (P26) output.
56	P25	O	FL segment (P25) output.
57	P24/DEMO	O/I	FL segment (P24) output/DEMO diode input (not used).

Pin No.	Pin Name	I/O	Description
58	P23/RDS	O/I	FL segment (P23) output/RDS diode input (not used).
59	P22/FM1	O/I	FL segment (P22) output/FM1 diode input (not used).
60	P21/SW	O/I	FL segment (P21) output/SW diode input (not used).
61	P20/LW	O/I	FL segment (P20) output/LW diode input (not used).
62	P19/AMST	O/I	FL segment (P19) output/AM STEREO diode input.
63	P18/AM10K	O/I	FL segment (P18) output/AM10K step initial diode input (not used).
64	P17/I- $\overline{\text{CST2}}$	O/I	FL segment (P17) output/DEC2 cassette EXIST/NOT EXIST SW input.
65	P16/I- $\overline{\text{REB2}}$	O/I	FL segment (P16) output/DECK2 side-B record ABLE/DISABLE SW input.
66	P15/I- $\overline{\text{CAM2}}$	O/I	FL segment (P15) output/DEC2 CAM SW ON/OFF input.
67	P14/I-AUTO1	O/I	FL segment (P14) output/DECK1 AUTO stop detect input.
68	P13/I-AUTO2	O/I	FL segment (P13) output/DECK2 AUTO stop detect input.
69	P12/I- $\overline{\text{CAM1}}$	O/I	FL segment (P12) output/DECK1 CAM SW ON/OFF input.
70	P11/I- $\overline{\text{CST1}}$	O/I	FL segment (P11) output/DECK1 cassette EXIST/NOT EXIST SW input.
71	P10/I- $\overline{\text{REA2}}$	O/I	FL segment (P10) output/DECK2 side-A record ABLE/DISABLE SW input.
72	VDD4	—	Connected to VDD (for FL).
73-81	P9-P1	O	FL segment (P9-P1) output.
82	O-KSCAN	O	Key-scan timing output.
83	I-STEREO/I-DRF	I	TUNER STEREO detection input/CD control signal DRF input.
84	I-IFC/I-SUBQ	I	TUNER TUNE, IF COUNT input/CD control signal SUBQ input.
85	O-DISH.FWD	O	CD turntable forward-rotation output.
86	O-DISH.REV	O	CD turntable reverse-rotation output.
87	O-PLLCE	O	TUNER PLL chip enable output.
88	O-CD.CE	O	CD control chip enable output.
89	VSS2	—	Connected to GND.
90	VDD2	—	Connected to VDD (Backup).
91	O-CD.CLK	O	CD control clock output.
92	O- $\overline{\text{SOL1}}$	O	DECK1 plunger ON/OFF output.
93	O- $\overline{\text{SOL2}}$	O	DECK2 plunger ON/OFF output.
94	O- $\overline{\text{SRST}}$	O	CD-R system reset signal output.
95	ARDY	I	CD-R control ready output.
96	CDREQ	I	CD-R control CD-R microcomputer request output.
97	SREQ	O	CD-R control system-computer request output.
98	SOUT	O	CD-R data output.
99	SIN	I	CD-R control data input.
100	(O-MUTE)	O	Not connected.

IC, EPF6016TC144-3

Pin No.	Pin Name	I/O	Description
1	IOCHRDY I	I/O	I/O channel ready.
2	IO	—	Not used.
3	ATA_CS0	I	ATAPI CS0.
4	NCE	I	Dedicated configuration pin. For EPROM connection. (Connected to ground)
5	GND	—	Ground.
6	VCCINT	—	Power supply.
7	VCCIO	—	
8	ATA_CS1	I	ATAPI CS1.
9	IO	—	Not used.
10	AD15	I/O	Address bus.
11	AD7	I/O	
12	AD14	I/O	
13	TDI	—	For JTAG connection. (Not used)
14	AD6	I/O	Address bus.
15	AD13	I/O	
16	IO	—	Not used.
17	CLKA	I	33MHz clock.
18	GND	—	Ground.
19	VCCIO	—	Power supply.
20	$\overline{\text{SYSRST}}$	I	System reset.
21	AD5	I/O	Address bus.
22	AD12	I/O	
23	AD4	I/O	
24	AD0	I/O	
25	AD8	I/O	
26	AD1	I/O	
27	TMS	—	For JTAG connection. (Not used)
28	AD9	I/O	Address bus.
29	AD2	I/O	
30	GND	—	Ground.
31	VCCINT	—	Power supply.
32	VCCIO	—	
33	MSEL	I	Dedicated configuration pin. For EPROM connection. (Connected to ground)
34	TCK	—	For JTAG connection. (Not used)
35	AD10	I/O	Address bus.
36	IO	—	Not used.
37	AD3	I/O	Address bus.
38	AD11	I/O	
39	IO	—	Not used.
40	$\overline{\text{WE}}$	O	Write enable.
41	IO	—	Not used.

Pin No.	Pin Name	I/O	Description
42	$\overline{\text{LBS}}$	O	Low byte select.
43	IO	—	Not used.
44	$\overline{\text{UBS}}$	O	Upper byte select.
45	IO	—	Not used.
46	$\overline{\text{RAMSEL1}}$	O	RAM select 1.
47	IO	—	Not used.
48	$\overline{\text{RAMSEL0}}$	O	RAM select 0.
49	IO	—	Not used.
50-52	A0-A2	I	Address bus.
53	NCONFIG	I	Dedicated configuration. For EPROM connection.
54	GND	—	Ground.
55	VCCIO	—	Power supply.
56	NSTATUS	I	Dedicated configuration pin. For EPROM connection.
57	IO	—	Not used.
58	A19	I	Address bus.
59-64	IO	—	Not used.
65	ILRCK	O	Audio data in LR channel clock.
66	IO	—	Not used.
67	OLRCK	O	Audio data out LR channel clock.
68	IO	—	Not used.
69	SDATAI_DIG	I	Digital serial data in.
70	NCEO	—	Not used.
71	SDATAO_DIG	O	Digital serial data out.
72	IO	—	Not used.
73	TDO	—	For JTAG connection. (Not used)
74, 75	IO	—	Not used.
76	GND	—	Ground.
77	VCCINT	—	Power supply.
78	VCCIO	—	
79	ISCLK	O	Audio data in serial clock.
80	IO	—	Not used.
81	OSCLK	O	Audio data out serial clock.
82	IO	—	Not used.
83	SDATAO_ANA	O	Analog serial data out.
84	IO	—	Not used.
85	SDATAI_ANA	I	Analog serial data in.
86	IO	—	Not used.
87	OMCLK	O	Audio data out master clock.
88	IO	—	Not used.
89	MCLKIN	I	Audio data in master clock.
90	GND	—	Ground.

Pin No.	Pin Name	I/O	Description
91	VCCIO	—	Power supply.
92	$\overline{\text{RES}}$	I	Hardware reset.
93	IO	—	Not used.
94	INIT_DONE	—	
95, 96	IO	—	
97	RDYNBSY	—	
98, 99	IO	—	
100	CLKUSR	—	
101	IO	—	
102	GND	—	
103	VCCINT	—	Power supply.
104	VCCIO	—	
105	CONF_DONE	I/O	Dedicated configuration pin. For EPROM connection.
106, 107	IO	—	Not used.
108	TCBL	I/O	Digital audio TCBL signal.
109	$\overline{\text{FSEL}}$	I	FPGA CS.
110	IO	—	Not used.
111	NCS	—	
112	IO	—	
113	$\overline{\text{UCS}}$	I	Upper memory CS.
114	IO	—	Not used.
115	TCBLINT	O	TCBL interrupt.
116	LRINT	O	LR clock interrupt.
117	NWS	—	Not used.
118	IO	—	
119	SRDY	O	Synchronous ready.
120	NRS	—	Not used.
121, 122	IO	—	
123	DEV_OE	—	
124	IO	—	
125	DATA	I	Dedicated configuration pin. For EPROM connection.
126	GND	—	Ground.
127	VCCIO	—	Power supply.
128	DCLK	I	Dedicated configuration pin. For EPROM connection.
129	$\overline{\text{WR}}$	I	Write signal.
130	DEV_CLRN	—	Not used.
131	IO	—	
132	$\overline{\text{S1}}$	I	Status 1.
133	IO	—	Not used.
134	$\overline{\text{S2}}$	I	Status 2.
135	IO	—	Not used.

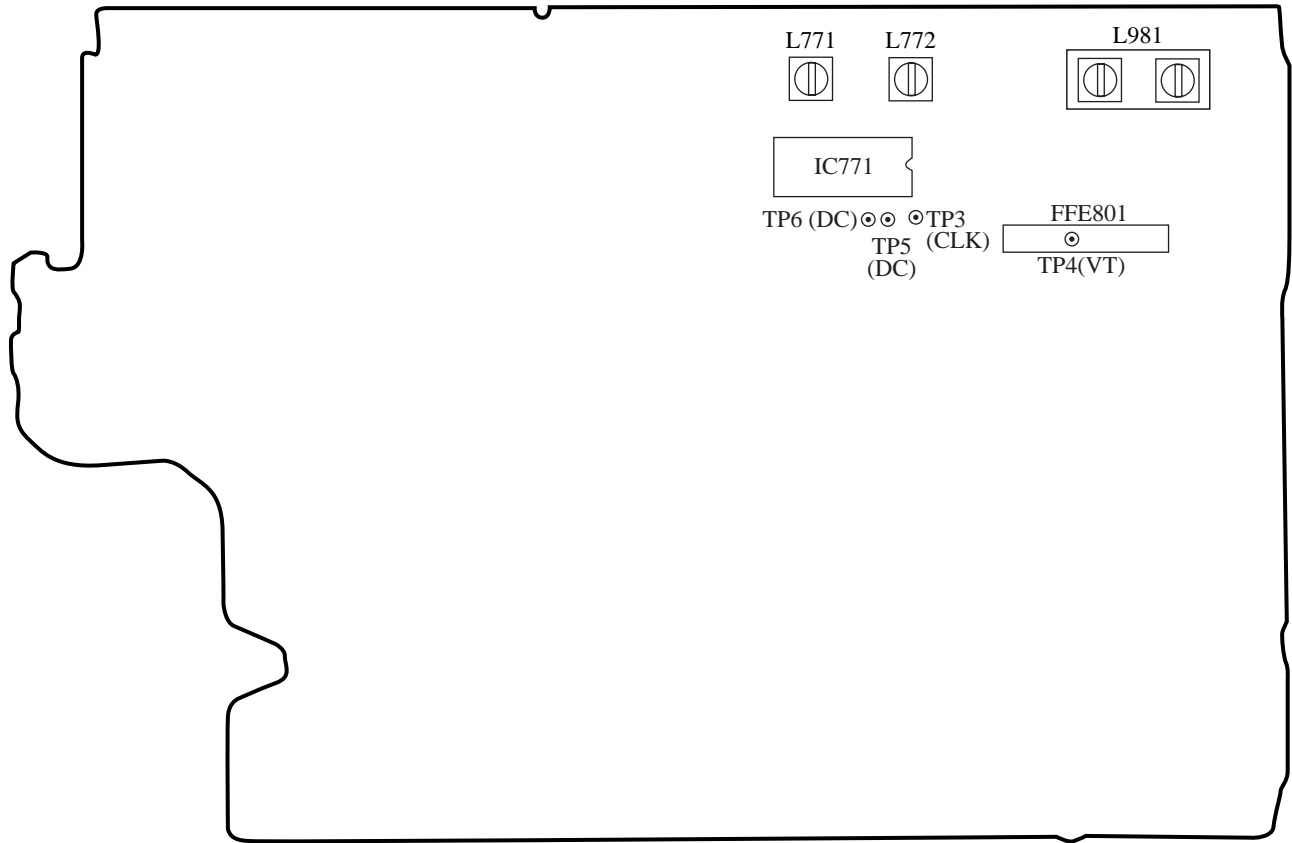
Pin No.	Pin Name	I/O	Description
136	ALE	I	Address latch enable.
137	IO	—	Not used.
138	$\overline{\text{BHE}}$	I	Bus high enable.
139	IO	—	Not used.
140	$\overline{\text{RD}}$	I	Read signal.
141	IO	—	Not used.
142	$\overline{\text{IDE_ENA}}$	I	IDE enable.
143	IO	—	Not used.
144	IDE_DIR	I	IDE direction.

IC, AM186EM-33K C/W

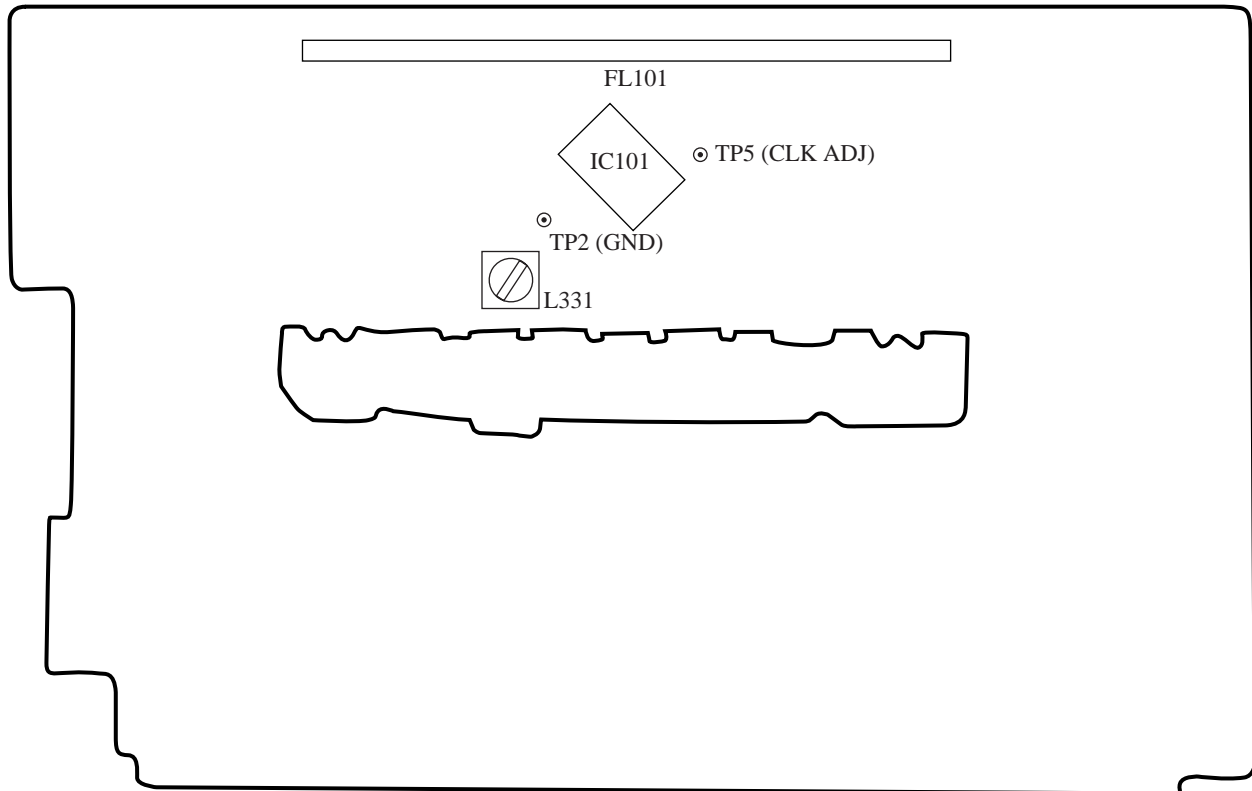
Pin No.	Pin Name	I/O	Description
1	SDEN1	O	E ² PROM control. (Chip select)
2	SDEN0	O	Digital audio IC control. (Chip select)
3	SCLK	O	E ² PROM/Digital audio IC control. (Clock)
4	$\overline{\text{BHE/ADEN}}$	O	CPU data bus. (Bus high enable)
5	$\overline{\text{WR}}$	O	CPU data bus. (Write strobe)
6	$\overline{\text{RD}}$	O	CPU data bus. (Read strobe)
7	ALE	O	CPU data bus. (Address latch enable)
8	ARDY	—	Not used. (Connected to ground through a resistor)
9-11	$\overline{\text{S2-S0}}$	O	Bus cycle status 2-0.
12	GND	—	Digital ground.
13	X1	I	CPU clock input. (33MHz)
14	X2	O	CPU clock output. (33MHz)
15	VCC	—	Digital +5V.
16	CLKOUTA	O	CPU clock buffered output. (33MHz)
17	CLKOUTB	O	Not used.
18	GND	—	Digital ground.
19-20	A19-A18	O	CPU address bus. (A19-A18)
21	VCC	—	Digital +5V.
22-37	A17-A2	O	CPU address bus. (A17-A2)
38	VCC	—	Digital +5V.
39-40	A1-A0	O	CPU address bus. (A1-A0)
41	GND	—	Digital ground.
42	$\overline{\text{WHB}}$	—	Not used.
43	$\overline{\text{WLB}}$	—	
44	HLDA	—	
45	HOLD	—	Not used. (Connected to ground)
46	SRDY	O	Synchronous ready.
47	NMI	—	Not used. (Connected to ground through a resistor)
48	ARDY	O	Asynchronous ready. (Connected to ground through a capacitor)
49	DATA_SER	I/O	VFD driver control. (Data)
50	CLK_SER	O	VFD driver control. (Clock)
51	CS_VFD	O	51VFD driver control. (Chip select)
52	DAINT	I	Digital audio IC interrupt request.
53	IRINT	I	Left/Right channel audio I/O interrupt request.
54	IRIRQ	I	IR (Remocon) signal input.
55	IDIRQ	I	CD drive interrupt request.
56	TCBLINT	—	TCBL interrupt request.
57	$\overline{\text{UCS}}$	O	Upper memory chip select.
58	$\overline{\text{LCS}}$	O	Not used. (Connected to +5V through a resistor)
59	CDREQ	—	CD interrupt request.
60	DINSEL	O	Digital source select. (Optical/Coaxial)

Pin No.	Pin Name	I/O	Description
61	VCC	—	Digital+5V.
62	SREQ	—	Serial interrupt request.
63	$\overline{\text{FSEL}}$	O	FPGA chip select.
64	GND	—	Digital ground.
65	ATA_CS1	O	ATAPII/FIDA2.
66	ATA_CS0	O	ATAPII/Freset.
67	VCC	—	Digital+5V.
68	SDA	O	Audio codec control.(Data)
69	SCL	O	Audio codec control.(Clock)
70	GND	—	Digital ground.
71	$\overline{\text{RES}}$	I	CPU reset.
72	TMRIN1	—	Programming mode selector. (Not used)
73	$\overline{\text{SYSRST}}$	O	Reset FPGA, audio codec and digital audio IC.
74	$\overline{\text{FLSTBY}}$	O	VFD power standby control.
75	TMRIN0	—	Programming mode selector.
76	AMUTE	O	Mute the analog ouput.
77	DRQO	—	Not used.
78	AD0	I/O	CPU address/Data bus. (AD0)
79	AD8	I/O	CPU address/Data bus. (AD8)
80	AD1	I/O	CPU address/Data bus. (AD1)
81	AD9	I/O	CPU address/Data bus. (AD9)
82	AD2	I/O	CPU address/Data bus. (AD2)
83	AD10	I/O	CPU address/Data bus. (AD10)
84	AD3	I/O	CPU address/Data bus. (AD3)
85	AD11	I/O	CPU address/Data bus. (AD11)
86	AD4	I/O	CPU address/Data bus. (AD4)
87	AD12	I/O	CPU address/Data bus. (AD12)
88	AD5	I/O	CPU address/Data bus. (AD5)
89	GND	—	Digital ground.
90	AD13	I/O	CPU address/Databus. (AD13)
91	AD6	I/O	CPU address/Databus. (AD6)
92	VCC	—	Digital+5V.
93	AD14	I/O	CPU address/Databus. (AD14)
94	AD7	I/O	CPU address/Databus. (AD7)
95	AD15	I/O	CPU address/Databus. (AD15)
96	$\overline{\text{S6/CLKDIV2}}$	—	Not used.
97	UZI	—	
98	SIN	—	RS232CI/Fdataline. (Send)
99	SOUT	—	RS232CI/Fdataline. (Receive)
100	SDATA	I/O	E ² PROM/Digitalaudio IC control. (Data)

MAIN C.B (TUNER SECTION)



FRONT C.B



< TUNER SECTION >

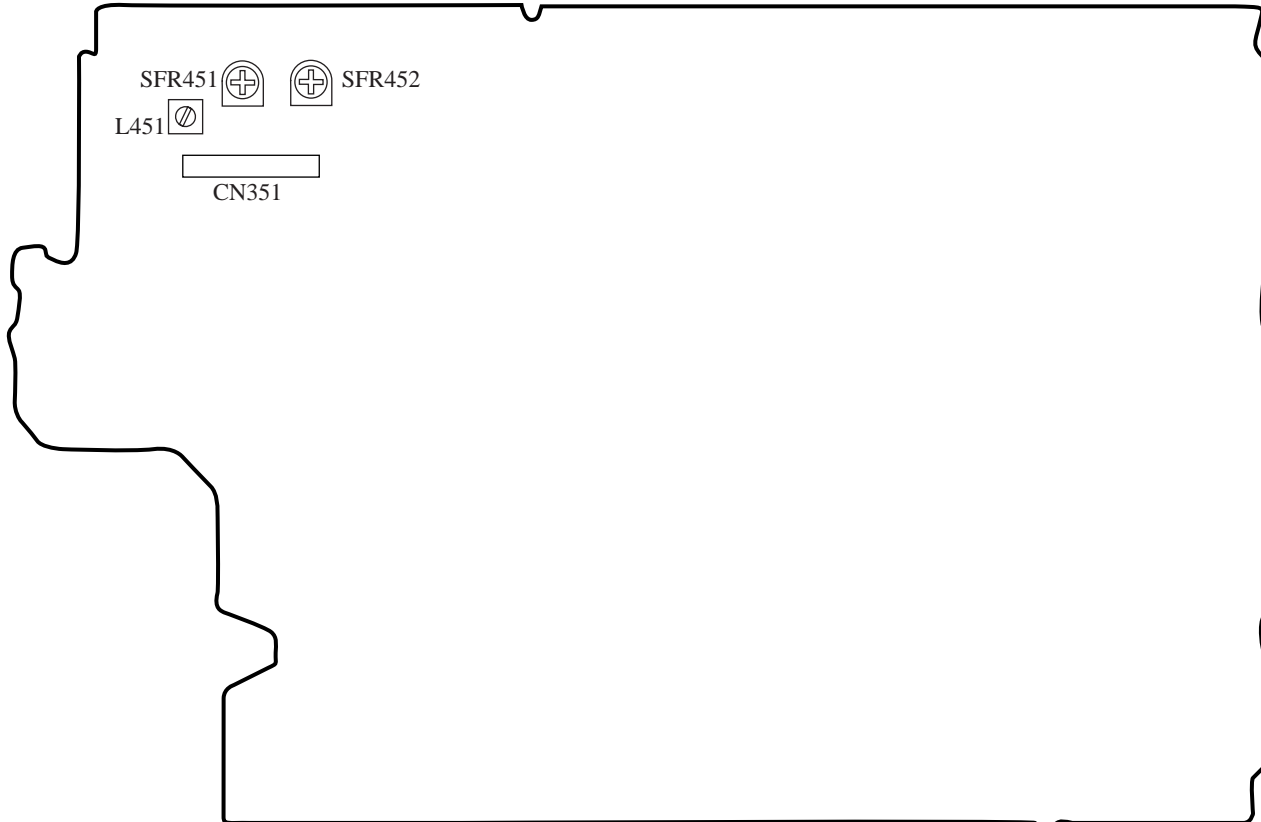
1. Clock Frequency Check
Settings: • Test point: TP3 (CLK)
Method: Set to AM 1710kHz and check that the test point is 2160kHz \pm 45Hz.
2. AM VT Check
Settings: • Test point: TP4 (VT)
Method: Set to AM 1710kHz and check that the test point is less than 8.5V. Then set to AM 530kHz and check that the test point becomes more than 0.6V.
3. AM Tracking Adjustment
Settings: • Test point: TP8 (Lch), TP9 (Rch)
• Adjustment location: L981 (1/3)
Method: Set to AM 1000kHz and adjust L981 (1/3) so that the test point becomes maximum.
4. AM IF Adjustment
Settings: • Test point: TP8 (Lch), TP9 (Rch)
• Adjustment location
L772 450MHz
5. FM VT Check
Settings: • Test point: TP4 (VT)
Method: Set to AM 108.0MHz and check that the test point is less than 8.0V. Then set to FM 87.5MHz and check that the test point is more than 0.5V.
6. FM Tracking Adjustment
Settings: • Test point: TP8 (Lch), TP9 (Rch)
Method: Set to FM 98.0MHz and check that the test point is less than 9dB μ V.
7. DC Balance/Mono Distortion Adjustment
Settings: • Test point: TP5, TP6 (DC balance)
• Adjustment location: L771
• Input level: 60dB μ V
Method: Set to FM 98.0MHz and adjust L771 so that the voltage between TP5 and TP6 becomes 0V \pm 0.04V.
Next, check that the distortion is less than 1.3%.
8. Output Level Check
<AM>
Settings: • Test point: TP8 (Lch), TP9 (Rch)
Method: Set to AM 1000kHz and check that the test point is 130mV \pm 3dB.

<FM>
Settings: • Test point: TP8 (Lch), TP9 (Rch)
Method: Set to AM 98.0MHz and check that the test point is 520mV \pm 3 dB.
9. FM Separation Check
Settings: • Test point: TP8 (Lch), TP9 (Rch)
• Input level: 60dB μ V
Method: Set to FM 98.0MHz and check that the test point more than 25dB.

< FRONT SECTION >

10. μ -com Clock Adjustment
Settings: • Test point: TP5 (CLK), TP2 (GND)
• Adjustment location: L331
Method: Connect a frequency counter across TP11 and TP12. Then adjust L331 so that the test point becomes 209.5Hz \pm 0.5Hz.

NAIN C.B (DECK SECTION)



< DECK SECTION >

1. Tape Speed Adjustment (DECK2)

Settings:

 - Test tape: TTA-100
 - Test point: TP6 (Lch), TP7 (Rch)
 - Adjustment location: SFR1

Method: Playback the test tape and adjust SFR1 so that the test point becomes 3000Hz \pm 5Hz (FWD) and FWD SPEED \pm 45Hz (REV).
2. Head Azimuth Adjustment (DECK1, DECK2)

Settings:

 - Test tape: TTA-330
 - Test point: TP6 (Lch), TP7 (Rch)
 - Adjustment location: Head azimuth adjustment screw

Method: Playback the 8kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on each FWD and REV PLAY mode.
3. PB Frequency Response Check (DECK1, DECK2)

Settings:

 - Test tape: TTA-330
 - Test point: TP6 (Lch), TP7 (Rch)

Method: Playback the 315Hz and 8kHz signals of the test tape and check that the output ratio of the 8kHz signal with respect to that of the 315Hz signal is 0dB \pm 3dB.
4. PB Sensitivity Check (DECK1, DECK2)

Settings:

 - Test tape: TTA-200
 - Test point: TP6 (Lch), TP7 (Rch)

Method: Playback the 400Hz and check that the output level at TP6, TP7 is 280mV \pm 3dB.
5. REC/PB Frequency Response Adjustment (DECK2)

Settings:

 - Test tape: TTA-602
 - Test point: TP6 (Lch), TP7 (Rch)
 - Input signal: 1kHz/10kHz (-20VU)
 - Adjustment location: SFR451 (Lch)
SFR452 (Rch)

Method: Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP6, TP7 becomes 20-21mV. Record and adjust SFRs so that the output level of the 10kHz signal becomes 0dB \pm 0.5dB with respect to that of the 1kHz signal.
6. REC/PB Sensitivity Check (DECK2)

Settings:

 - Test tape: TTA-602
 - Test point: TP6 (Lch), TP7 (Rch)
 - Input signal: 1kHz (0VU)

Method: Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP6, TP7 becomes 200-210mV. Record and play back the 1kHz signal and check that the output is -2dB \pm 3dB.

PRACTICAL SERVICE FIGURE

< TUNER SECTION >

< FM SECTION >

IHF Sensitivity: (THD 3%)	Less than 14dB μ V (at 87.5MHz) Less than 13dB μ V (at 98.0/108.0MHz)
S/N 50dB Quieting Sensitivity:	Less than 35dB μ V (at 98.0MHz)
Signal to Noise Ratio: (Input 60dB μ V)	Mono: More than 68dB Stereo: More than 62dB (at 98.0MHz)
Distortion: (Input 60dB μ V)	Mono: Less than 1.2% Stereo: More than 2.0% (at 98.0MHz)
Auto stop level:	25dB μ V \pm 10dB (at 98.0MHz)
Stereo separation:	More than 22dB (at 98.0MHz)
Intermediate frequency:	10.7MHz

< AM SECTION >

Sensitivity: (S/N 20dB)	Less than 60dB μ V (at 600kHz) Less than 58dB μ V (at 1000/1400kHz)
Signal to Noise Ratio: (Input 74dB μ V)	More than 36dB (at 1000kHz)
Distortion:	Less than 1.5% (at 1000kHz)
Auto stop level:	52dB μ V +10/-15dB (at 1000kHz)
Intermediate frequency:	450kHz

< DECK SECTION >

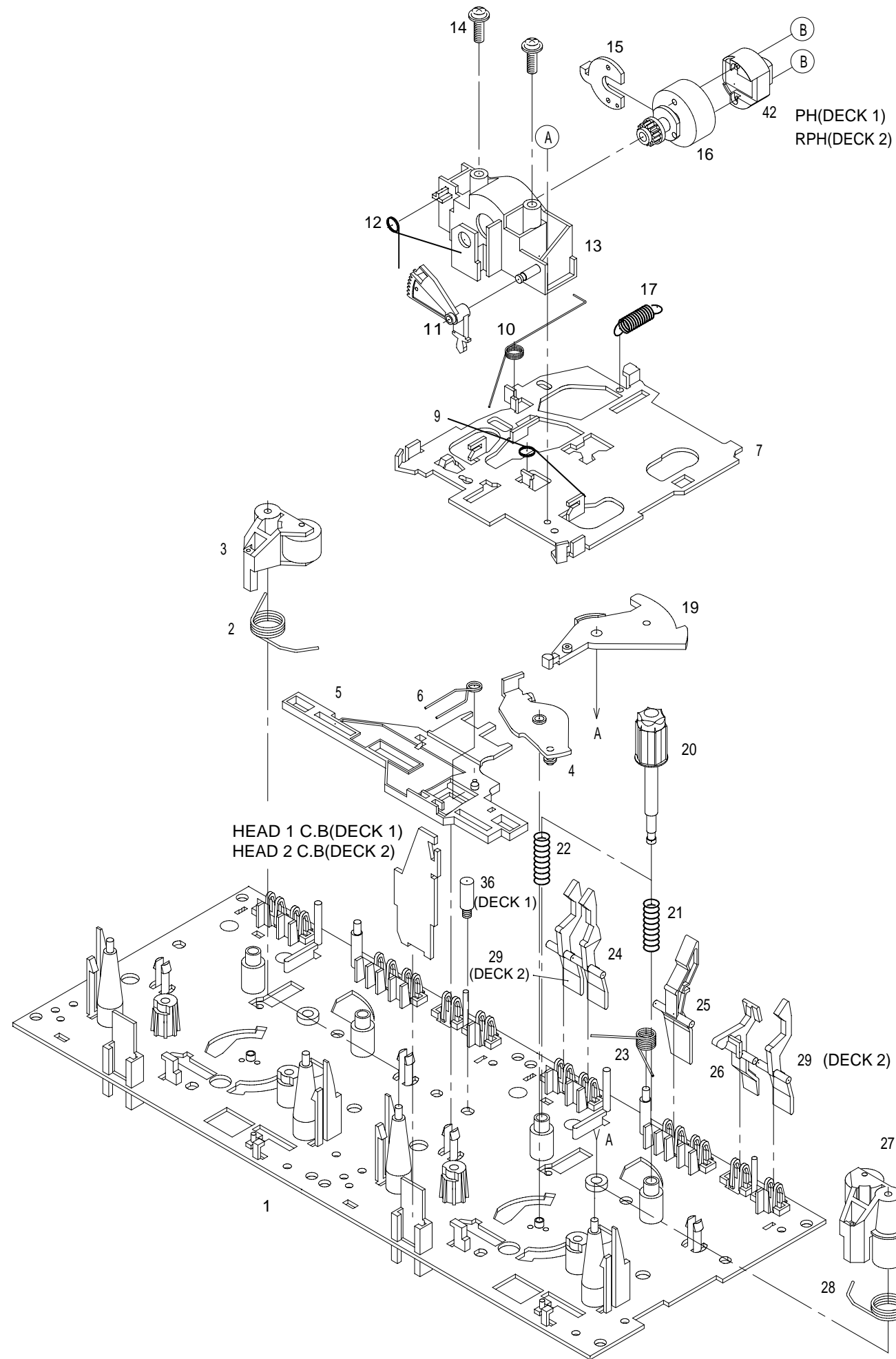
Tape speed:	3000Hz \pm 45Hz
Wow & flutter:	Less than 0.21% (W.R.M.S)
Take-up torque:	30-55g-cm (FWD, REV)
FF&REW torque:	75-160g-cm
Back tension:	2-7g-cm
Pinch roller pressure:	270-330g
PB Output level:	220mV \pm 4dB (SP OUT 2V)
REC/PB Output level:	160mV \pm 3dB (at 1kHz, 0VU, SP OUT 2V, NORMAL)
Distortion(REC/PB):	Less than 2.0% (at 0VU, NORMAL)
Noise level (PB):	Less than 1.0mV (NORMAL, FILTER DIN AUDIO)
Noise level (REC/PB):	Less than 1.0mV (NORMAL, FILTER DIN AUDIO)
Distortion(PB):	Less than 1.0mV (NORMAL, FILTER DIN AUDIO)
Erasing ratio:	More than 60dB (at 125Hz, +10VU, NORMAL)
Test tape:	TTA-100 TTA-200 TTA-350 TTA-602(NORMAL)

TAPE MECHANISM PARTS LIST 1/1

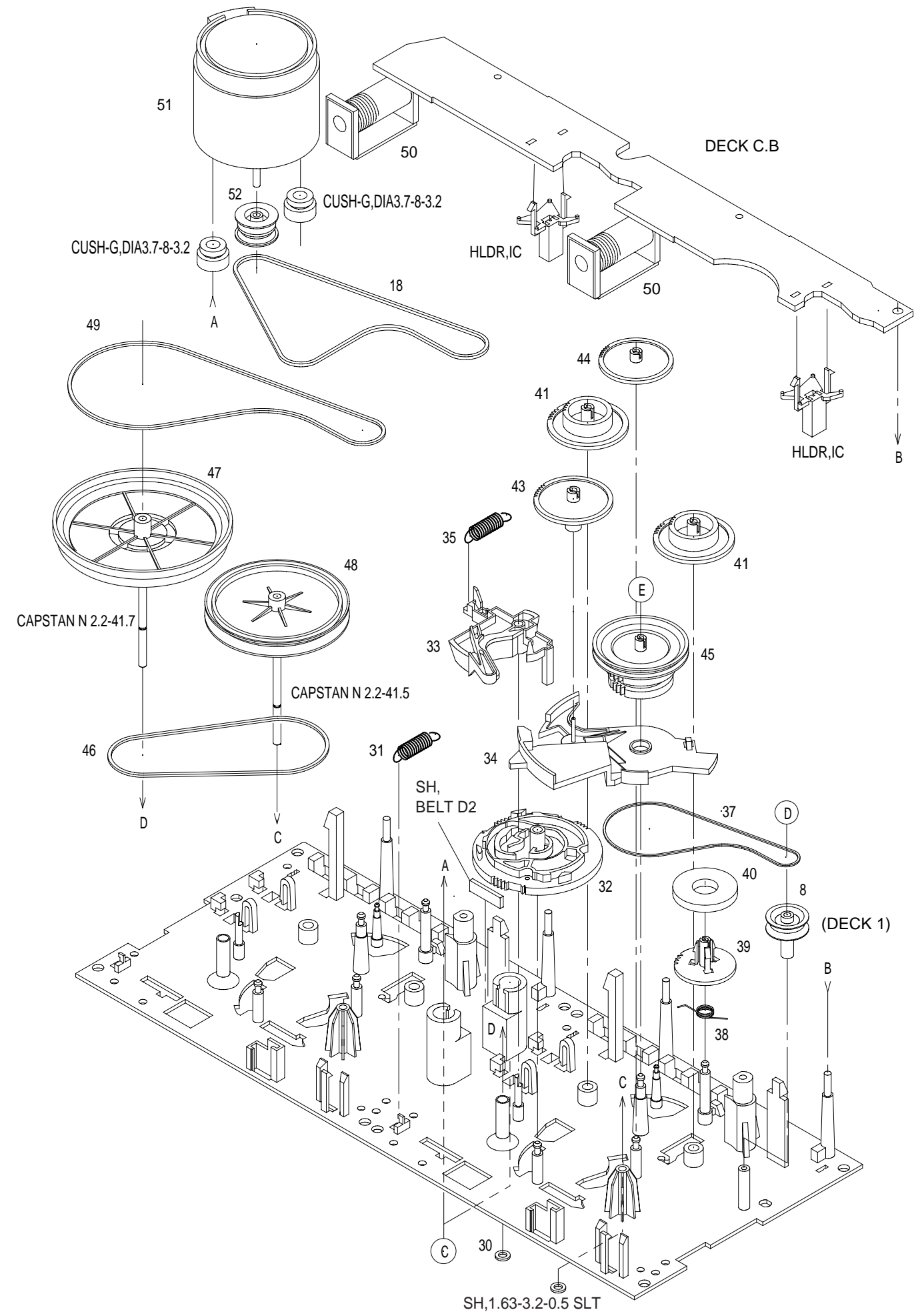
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

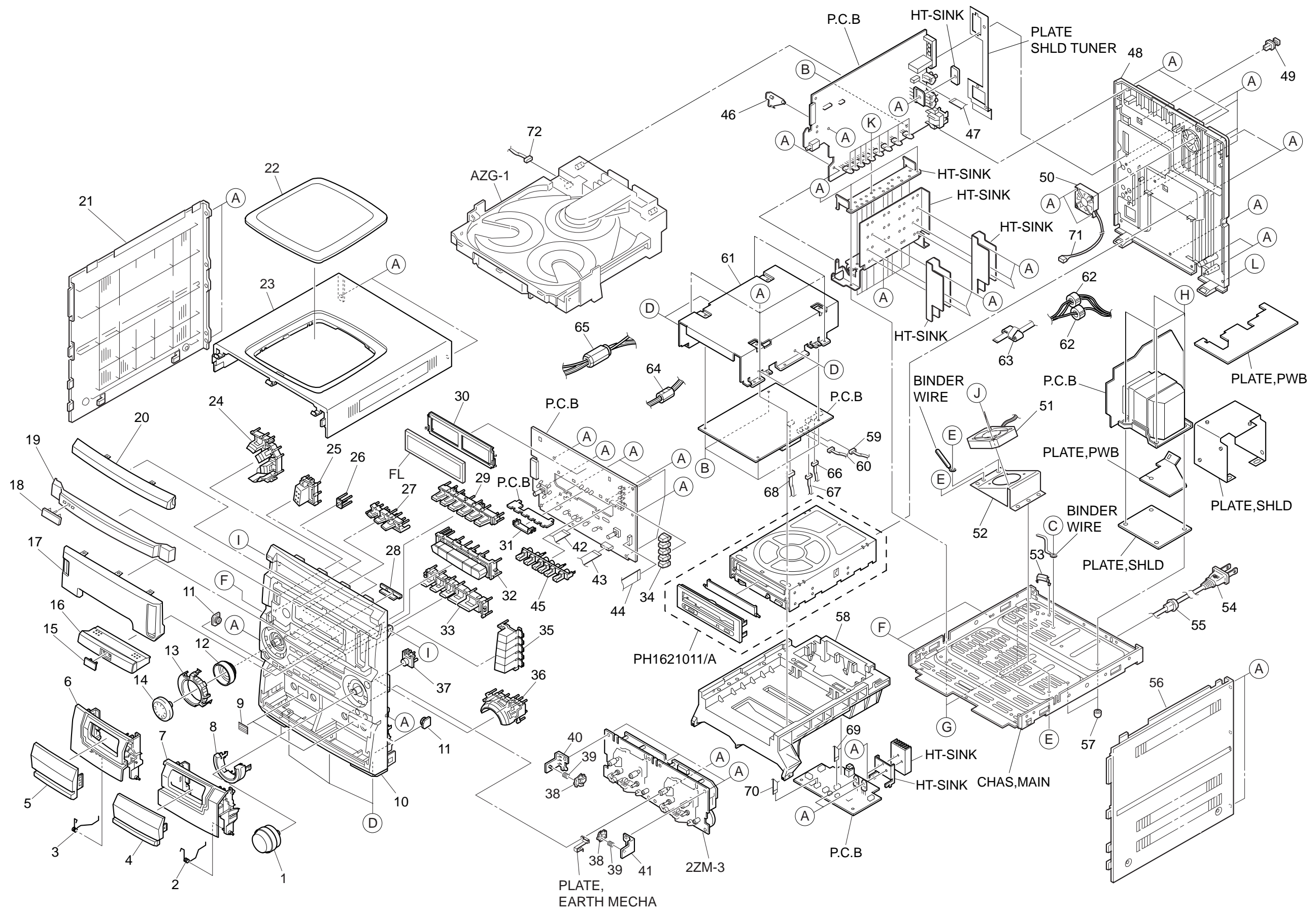
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-610		CHAS ASSY,M2	31	82-ZM1-255-310		SPR-E,LVR DIR
2	82-ZM1-258-210		SPR-T,PINCH L	32	82-ZM3-305-210		GEAR,CAM M2
3	82-ZM1-341-210		LVR ASSY,PINCH L2	33	82-ZM1-227-310		LVR,TRIG
4	82-ZM1-333-210		PLATE,LINK2	34	82-ZM3-306-110		LVR,FR M2
5	82-ZM1-266-310		LVR,DIR	35	82-ZM1-265-310		SPR-E,TRIG
6	82-ZM1-214-010		SPR-T,DIR	36	82-ZM3-339-110		SHAFT,COUPLER N3
7	82-ZM1-206-910		CHAS,HEAD	37	86-ZM1-206-010		BELT,MAIN L
8	82-ZM3-335-310		PULLEY,COUPLER M3	38	82-ZM1-322-010		SPR-T,FR 60
9	82-ZM1-269-210		SPR-T,BRG	39	82-ZM1-220-210		GEAR,IDLER
10	82-ZM1-219-110		SPR-T,LINK	40	82-ZM3-616-010		RING MAGNET 4
11	82-ZM1-210-110		GEAR,H T	41	82-ZM1-216-410		GEAR,REEL
12	82-ZM1-213-010		SPR-T,HEAD	42	87-A90-820-010		HEAD,PH HADKH25 FPC
13	82-ZM1-207-910		GUIDE,TAPE	42	87-A90-821-010		HEAD,RPH HADKH56 FPC
14	86-ZM4-206-010		S-SCREW,AZIMUTH L	43	82-ZM1-225-210		GEAR,FR
15	82-ZM1-314-110		PLATE,HEAD	44	82-ZM1-226-010		GEAR,REW
16	82-ZM1-208-310		HLDR,HEAD	45	82-ZM3-333-310		SLIP DISK ASSY 2
17	82-ZM1-218-010		SPR-E,HB	46	82-ZM1-338-110		BELT,FR 4
18	82-ZM3-342-010		BELT,SBU MOT 3	47	82-ZM1-349-110		FLY-WHL,R W
19	82-ZM1-222-210		LVR,PLAY	47	82-ZM1-348-110		FLY-WHL,L W
20	82-ZM1-217-410		REEL TABLE	48	82-ZM3-338-310		FLY-WHL,R3W
21	82-ZM1-244-510		SPR-C,BT	49	82-ZM3-329-410		BELT,SBU R2
22	82-ZM1-285-410		SPR-C,BT L	50	82-ZM1-618-410		SOL ASSY,27
23	82-ZM1-257-010		SPR-T,CAS	51	87-045-347-010		MOT,SHU2L 70
24	82-ZM1-241-310		LVR,MC	52	82-ZM3-221-210		PULLEY,MOT 2M
25	82-ZM1-242-010		LVR,CAS	A	85-ZM3-202-010		S-SCREW,TG
26	82-ZM1-243-010		LVR,STOP	B	80-ZM6-207-010		V+1.6-7
27	82-ZM1-344-010		LVR ASSY,PINCH R2	C	82-ZM3-318-110		S-SCREW W,MOTOR M2
28	82-ZM1-259-210		SPR-T,PINCH R	D	87-B10-043-010		W-P,0.99-4-0.25 SLT
29	82-ZM1-240-110		LVR,REC(*)	E	82-ZM3-334-010		PW 2.16-6-0.4
30	80-ZM6-243-010		SH 1.75-3.6-0.5 SLT				

TAPE MECHANISM EXPLODED VIEW 1/2



TAPE MECHANISM EXPLODED VIEW 2/2





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.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-NB8-020-110		KNOB,RTRY VOL	43	88-915-161-110		FF-CABLE, 15P 1.25
2	82-NF5-219-010		SPR-T,EJECT 2 (SIN)	44	88-913-271-110		FF-CABLE, 13P 1.25
3	82-NF5-218-010		SPR-T,EJECT 1 (SIN)	45	8Z-NB8-210-210		GUIDE,FUN
4	8Z-DF8-022-010		WINDOW,CASS 2	46	8Z-NB8-215-010		HLDR,PWB M
5	8Z-DF8-021-010		WINDOW,CASS 1	47	8Z-DF8-640-010		FF-CABLE, 12P 1.25 300MM
6	8Z-DF8-019-010		BOX,CASS 1	48	8Z-DF8-012-010		CABI,REAR S<D<S>>
7	8Z-DF8-020-010		BOX,CASS 2	48	8Z-DF8-011-010		CABI,REAR USM<U<S>>
8	8Z-NB8-036-210		PANEL,VOL(*)	49	84-ZG1-245-210		CAP,OPTICAL
9	81-532-080-010		LABEL, CASS. COMPT	50	8Z-CL1-663-010		FAN,MF40D-12-200MM
10	8Z-DF8-025-010		CABI,FR D<D<S>>	51	87-A90-796-010		FAN,F614R-12MC-15-300MM
10	8Z-DF8-004-010		CABI,FR U<U<S>>	52	8Z-NB8-216-010		HLDR,FAN
11	87-NF8-220-010		DMPR,150	53	87-NF4-221-010		HLDR,CABLE
12	8Z-NB8-021-010		REFLECTOR, JOG	54	87-050-098-010		AC CODE ASSY,D<D<S>>
13	8Z-NB8-035-110		PANEL, JOG	54	87-A80-110-010		AC CORD ASSY,U SPT-2W<U<S>>
14	8Z-NB8-019-110		KNOB,RTRY JOG	55	87-085-184-010		BUSHING, AC CORD (D)<D<S>>
15	8Z-DF8-014-010		BADGE,CD-R 26	55	87-085-189-010		BUSHING, CORD (U)<U<S>>
16	8Z-DF8-005-010		PANEL,TRAY CD-R	56	8Z-NB8-012-010		PANEL,RIGHT V-2
17	8Z-DF8-007-010		WINDOW,DISP U	57	8Z-NB8-240-010		COVER, PL
18	87-CE3-023-010		BADGE,AIWA 30N SILV	58	8Z-DF8-201-010		HLDR,CD-R
19	8Z-DF8-006-010		PANEL,TRAY	59	8Z-DF8-675-010		CONN ASSY,2P SHIELD230MM
20	8Z-DF8-023-010		PANEL,CD	60	8Z-DF8-673-010		CONN ASSY,10P CDC
21	8Z-NB8-011-210		PANEL,LEFT V-2	61	8Z-DF8-203-110		CASE,SHLD CD-R
22	86-NF6-007-010		WINDOW,TOP<D<S>>	62	87-A90-457-010		F-BEAD,15-25-15 E251
22	86-NF6-101-110		WINDOW,TOP UL<U<S>>	63	87-A90-762-010		F-BEAD, 3407MFT
23	8Z-NB8-014-010		PANEL,TOP V-2 R	64	80-XM5-607-010		CORE,Z CAT 1518-0730
24	8Z-DF8-008-010		KEY,FINALIZE<U<S>>	65	89-HD1-646-010		CORE,ZCAT2035-0930
24	8Z-DF8-018-010		KEY,FINALIZE D<D<S>>	66	8Z-DF8-670-010		CONN ASSY,4P
25	8Z-NB8-015-010		KEY,POWER	67	8Z-DF8-671-010		CONN ASSY,6P
26	8Z-NB8-033-010		REFLECTOR,ECO	68	8Z-DF8-677-010		CONN ASSY,6P PROGRAM
27	8Z-NB8-034-010		KEY,RDS	69	88-906-171-110		FF-CABLE,6P 1.25
28	8Z-DF8-015-010		REFLECTOR,CD-R	70	8Z-DF8-672-010		CONN ASSY,10P CDP
29	8Z-DF8-010-010		KEY,REC	71	8Z-DF8-674-010		CONN ASSY,3P FAN
30	87-NF5-203-110		GUIDE,FL(*)	72	8Z-DF8-676-010		CONN ASSY,2P SHIELD260MM<D<S>>
31	8Z-DF8-202-010		GUIDE,CD-R	A	87-067-703-010		TAPPING SCREW, BVT2+3-10
32	8Z-NB8-028-010		KEY,ASSY OPE	B	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
33	8Z-NB8-027-110		KEY,CD	C	87-067-585-010		TAPPING SCREW, BVTT+4-6
34	8Z-NB8-211-010		GUIDE,OPE	D	87-067-688-010		BVTT+3-6
35	8Z-DF8-016-010		KEY,ASSY FUN	E	87-067-584-010		TAPPING SCREW, BVT2+3-6
36	8Z-NB8-026-210		KEY,DISP(*)	F	87-723-096-410		QT2+3-10W/O SLOT BL
37	8Z-DF8-009-010		KEY,CD-R O/C	G	87-067-579-010		TAPPING SCREW, BVT2+3-8
38	82-NF5-229-010		PLATE, LOCK	H	87-078-191-010		S-SCREW,IT+4-10
39	86-NF9-224-010		SPR-C, LOCK	I	87-721-097-410		QT2+3-12 GLD
40	87-NF4-216-010		HLDR, LOCK 1	J	87-B10-184-010		BVTT+3-20 W/O SLOT
41	87-NF4-217-110		HLDR, LOCK 2	K	87-067-001-010		BVWST2+3-12 W/O SL
42	88-909-501-110		FF-CABLE, 9P 1.25	L	85-NF7-599-010		PVC W 3.2-8-0.3

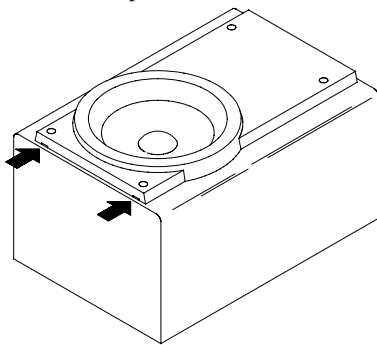
COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

SPEAKER DISASSEMBLY INSTRUCTIONS

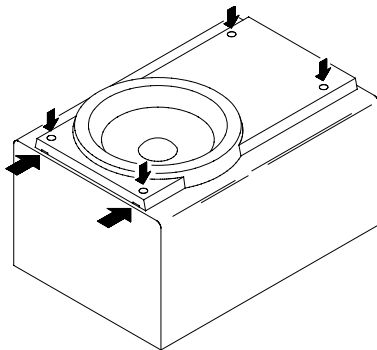
Type.1

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



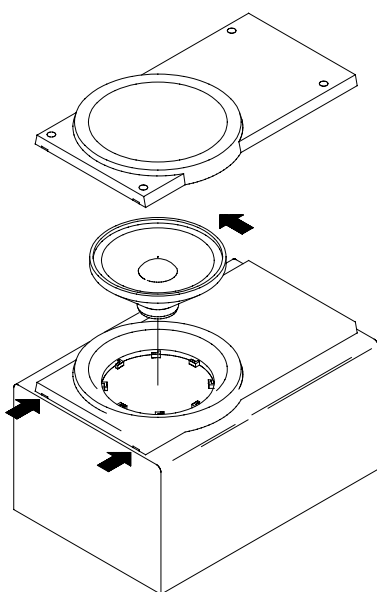
Type.2

Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hold where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.

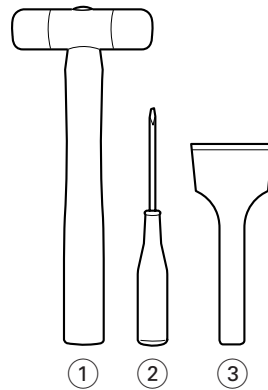


Type.3

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



Type.4



TOOLS

- ① Plastic head hammer
- ② (⊖) flat head screwdriver
- ③ Cut chisel

How to Remove the PANEL, FR

1. Insert the (⊖) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (⊖) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.
2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.
3. Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.

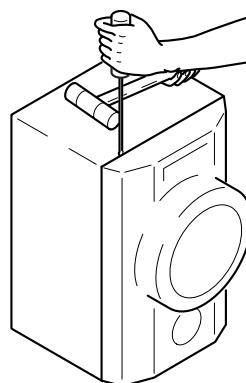


Fig-1

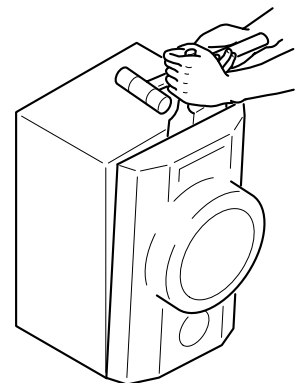


Fig-2

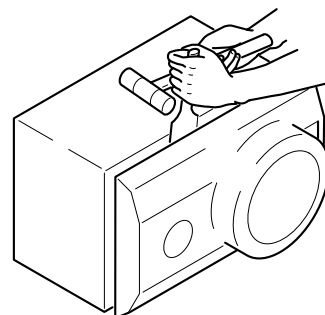


Fig-3

How to Attach the PANEL, FR

Attach the PANEL, FR to the PANEL, SPKR. Tap the four corners of the PANEL, FR with the plastic hammer to fit the PANEL, FR into the PANEL, SPKR completely.

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.	KANRI NO.	DESCRIPTION
1	88-NS5-610-010		CORD, SPKR
2	88-NS5-611-010		CORD, SPKR B/L
3	8Z-NSY-015-010		PANEL, FR N2
4	8Z-NSY-004-010		PROTECTOR, TW
5	8Z-NSY-608-010		SPKR, CERAMIC ASSY (SWNH33)
6	86-NS5-012-010		BADGE, AIWA 35
7	8Z-NSY-016-010		GRILLE, FRAME ASSY 2
8	8Z-NSY-602-010		SPKR, W 160
9	8Z-NSY-604-010		SPKR, M 100

アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)
AIWA CO.,LTD. 2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110-8710, JAPAN TEL:03(3827)3111