



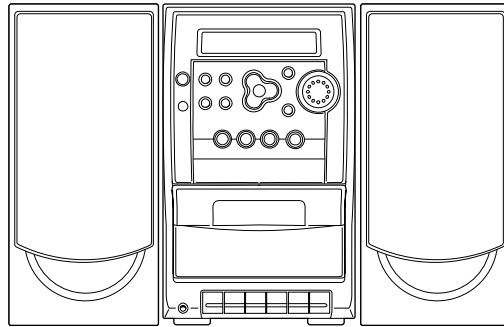
LCX-257

HR(S,L,D)

EZ (S,L,D)

K(S,L,D)

HS(L) HC(L)



SERVICE MANUAL

COMPACT DISC STEREO
SYSTEM

BASIC TAPE MECHANISM : TN-21ZSC-2003
BASIC CD MECHANISM : DA11T3C

aiwa

S/M Code No. 09-006-346-6N1



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SPECIFICATIONS

HC, HR, MODELS

MAIN UNIT

FM tuner section

Tuning range 87.5 MHz to 108 MHz
Antenna terminals 75 ohms (unbalanced)

AM tuner section

Tuning range 531 kHz to 1602 kHz (9 kHz step)
 530 kHz to 1710 kHz (10 kHz step)
Antenna Loop antenna

Amplifier section

Power output 5.5 W + 5.5 W (4 ohms, T.H.D. 1%, 1 kHz)
 7.0 W + 7.0 W (4 ohms, T.H.D. 10%, 1 kHz)

Input

Outputs AUX: 800 mV
 SPEAKERS: accept speakers of 4 ohms or more
 PHONES (stereo minijack): accepts headphones of 32 ohms or more

Cassette deck section

Track format 4 tracks, 2 channels stereo
Frequency response Normal tape: 50 Hz – 10000 Hz
Recording system AC bias
Erasure system Magnet erase
Heads Recording/playback × 1
 Erase head × 1

Compact disc player section

Laser Semiconductor laser ($\lambda = 780$ nm)
D-A converter 1 bit linear
Wow and flutter Unmeasurable

SPEAKER SYSTEM

Speakers 100 mm cone type, 4 ohms
Impedance 4 ohms
Dimensions (W × H × D) 130 × 262.5 × 215 mm
Weight 1.3 kg

GENERAL

Power requirements 120 V/220-240 V AC switchable, 50/60 Hz
Power consumption 26 W
Dimensions of main unit (W × H × D) 160 × 265 × 248.5 mm
Weight of main unit 4.1 kg

- Design and specifications are subject to change without notice.

HS, K, EZ MODELS

MAIN UNIT

FM tuner section

Tuning range 87.5 MHz to 108 MHz
Antenna terminals 75 ohms (unbalanced)

MW tuner section

Tuning range 531 kHz to 1602 kHz (9 kHz step)
 530 kHz to 1710 kHz (10 kHz step)
Antenna Loop antenna

LW tuner section

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

Amplifier section

Power output Rated: 5.5 W + 5.5 W (4 ohms, T.H.D. 1%, 1 kHz/DIN 45500)
 Reference: 7.0 W + 7.0 W (4 ohms, T.H.D. 10%, 1 kHz/DIN 45324)
DIN MUSIC POWER
 8.0 W + 8.0 W
Input AUX: 800 mV
Outputs SPEAKERS: accept speakers of 4 ohms or more
 PHONES (stereo minijack): accepts headphones of 32 ohms or more

Cassette deck section

Track format 4 tracks, 2 channels stereo
Frequency response Normal tape: 50 Hz – 10000 Hz
Recording system AC bias
Erasure system Magnet erase
Heads Recording/playback × 1
 Erase head × 1

Compact disc player section

Laser Semiconductor laser ($\lambda = 780$ nm)
D-A converter 1 bit linear
Wow and flutter Unmeasurable

SPEAKER SYSTEM

Speakers 100 mm cone type, 4 ohms
Impedance 4 ohms
Dimensions (W × H × D) 130 × 262.5 × 215 mm
Weight 1.3 kg

GENERAL

Power requirements 230 V AC, 50 Hz
 220 V AC, 60 Hz (HS MODEL ONLY)
Power consumption 28 W
Dimensions of main unit (W × H × D) 160 × 265 × 248.5 mm
Weight of main unit 4.1 kg

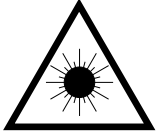
- Design and specifications are subject to change without notice.

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 käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

WARNING!

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

CAUTION

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

ATTENTION

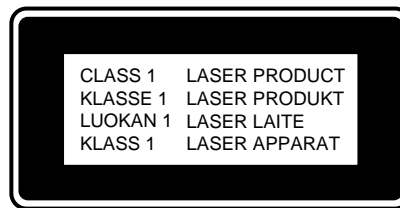
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

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

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

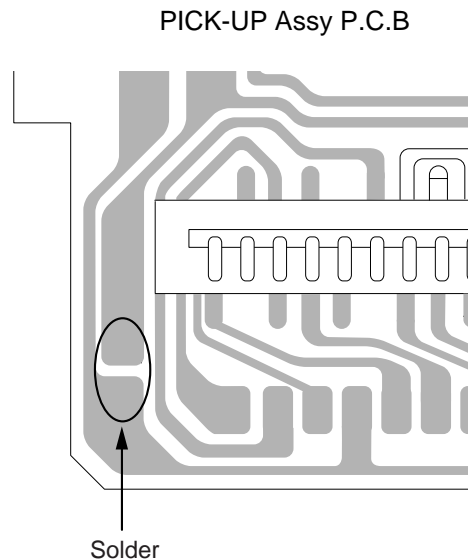
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



Precaution to replace Optical block (SF-P101NR)

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.



ELECTRICAL MAIN PARTS LIST

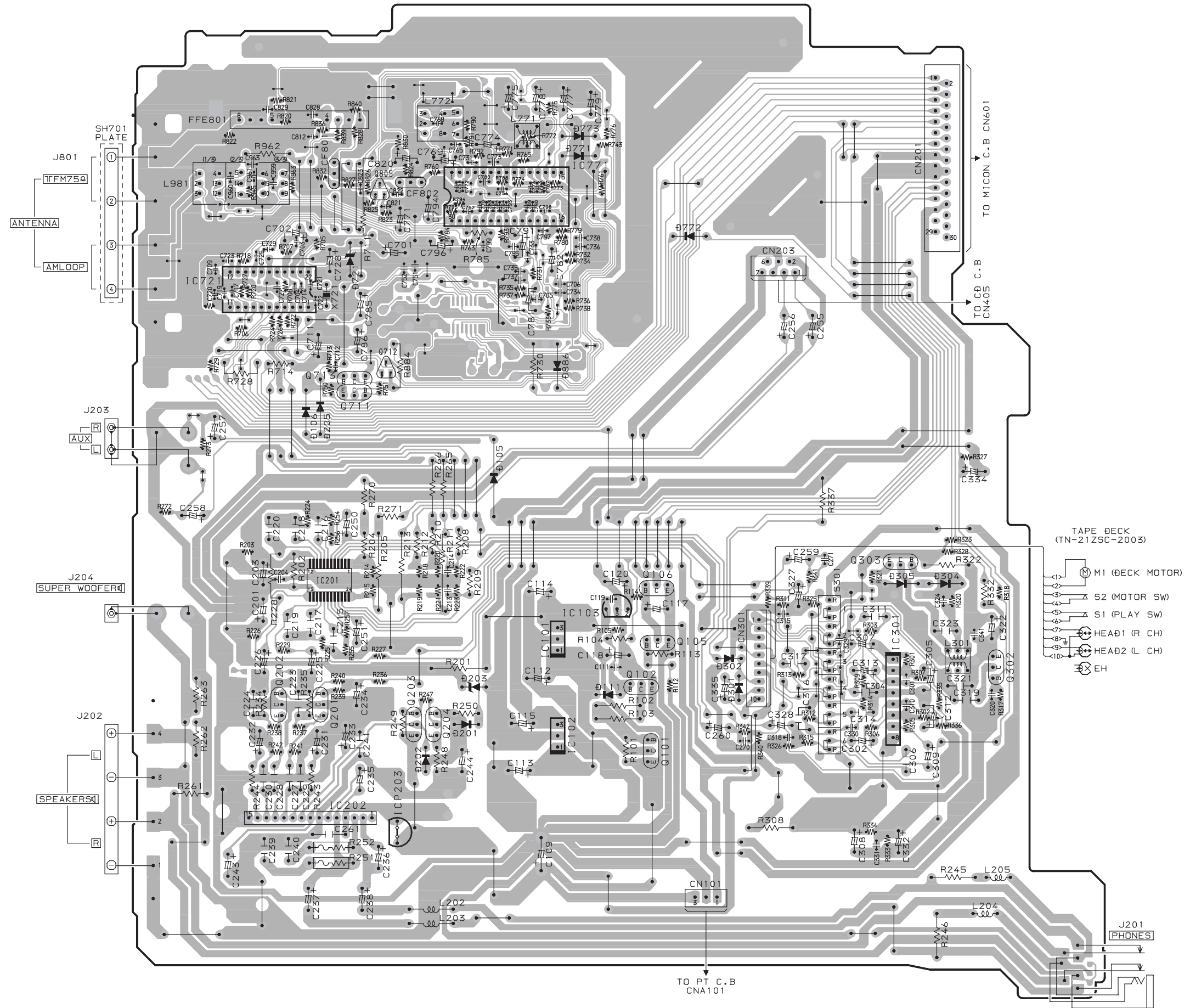
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC				C213	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A21-368-010	IC,NJM7812FA(A)		C214	87-010-196-080		CHIP CAPACITOR,0.1-25
	87-A21-365-010	IC,NJM7808FA		C223	87-A11-126-080		CAP,TC U 3300P-50 K B <HRJS,HRD,HRL,HCL>
	87-002-849-080	IC,NJM78L06A		C224	87-A11-126-080		CAP,TC U 3300P-50 K B <HRJS,HRD,HRL,HCL>
	87-A21-443-040	C-IC,M62495AFP		C225	87-010-401-080		CAP, ELECT 1-50V
	87-A21-020-010	IC,TA8223K		C226	87-010-401-080		CAP, ELECT 1-50V
	87-A21-431-010	IC,BA4560N		C227	87-018-208-080		CAP 0.047-50F
	87-A20-446-010	C-IC,LA9241ML		C228	87-018-208-080		CAP 0.047-50F
	87-A20-459-010	C-IC,LC78622ED		C229	87-018-132-080		CAP, CER 2200P-16V
	87-A21-093-010	IC,LA6541D		C230	87-018-132-080		CAP, CER 2200P-16V
	8A-CLC-608-010	C-IC,LC877248A-5R02		C231	87-010-406-080		CAP, ELECT 22-50
	87-070-127-110	IC,LC72131 D		C232	87-010-406-080		CAP, ELECT 22-50
	87-A20-913-010	IC,LA1837NL		C233	87-010-260-080		CAP, ELECT 47-25V
	87-A21-482-010	IC,RPM6938-H4		C234	87-010-404-080		CAP, ELECT 4.7-50V
				C235	87-010-112-080		CAP, ELECT 100-16V
TRANSISTOR				C236	87-010-112-080		CAP, ELECT 100-16V
	89-213-703-010	TR,2SB1370F		C237	87-010-237-080		CAP, ELECT 1000-16V
	87-026-610-080	TR,KTC3198GR		C238	87-010-237-080		CAP, ELECT 1000-16V
	89-406-555-080	TR,2SD655 (0.5W)		C241	87-018-209-080		CAP, CER 0.1-50V
	89-109-521-080	TR,2SA952 (0.6W)		C243	87-010-387-080		CAP,E 470-25 SME
	89-109-332-380	TR,2SA933RS		C244	87-010-248-080		CAP, ELECT 220-10V
	89-113-187-080	TR,2SA1318TU		C247	87-010-318-080		C-CAP,S 47P-50 CH <EXCEPT HRJS,HRD,HRL,HCL>
	87-026-239-080	TR,DTC114TK (0.2W)		C248	87-010-318-080		C-CAP,S 47P-50 CH <EXCEPT HRJS,HRD,HRL,HCL>
	87-026-213-080	CHIP-TR,DTC114YK		C250	87-010-401-080		CAP, ELECT 1-50V
	89-112-965-080	TR,2SA1296 (0.75W)		C251	87-010-401-080		CAP, ELECT 1-50V
	87-026-291-080	TR,DTC124XS		C255	87-010-401-080		CAP, ELECT 1-50V
	87-026-263-080	C-TR,RN1410		C256	87-010-401-080		CAP, ELECT 1-50V
	87-026-237-080	CHIP-TR,DTC124XK		C257	87-010-401-080		CAP, ELECT 1-50V
	89-320-011-080	TR,2SC2001 (15W)		C258	87-010-401-080		CAP, ELECT 1-50V
	87-A30-072-080	C-TR,RT1P 144C		C259	87-010-401-080		CAP, ELECT 1-50V
	87-026-215-080	TR,DTC114YS		C260	87-010-401-080		CAP, ELECT 1-50V
	89-327-143-080	TR,2SC2714 (0.1W)		C270	87-010-322-080		C-CAP,S 100P-50 CH
	89-505-434-540	C-FET,2SK543(4/5) <EXCEPT HRJS,HRD,HRL,HCL>		C271	87-010-322-080		C-CAP,S 100P-50 CH
	87-A30-086-070	C-TR,CSD1306E <EXCEPT HRJS,HRD,HRL,HCL>		C301	87-010-322-080		C-CAP,S 100P-50 CH
	87-A30-074-080	C-TR,RT1P 141C <EXCEPT HRJS,HRD,HRL,HCL>		C302	87-010-401-080		CAP, ELECT 1-50V
DIODE				C305	87-010-374-080		CAP, ELECT 47-10V
	87-070-178-090	DIODE,1N5402-BD54		C307	87-010-405-080		CAP, ELECT 10-50V
	87-020-465-080	DIODE,1SS133 (110MA)		C308	87-010-248-080		CAP, ELECT 220-10V
	87-017-092-080	ZENER,HZS5C2		C309	87-010-405-080		CAP, ELECT 10-50V
	87-A40-189-080	DIODE,1SR139-400		C310	87-010-322-080		C-CAP,S 100P-50 CH
	87-070-345-080	DIODE,1N4148		C312	87-010-374-080		CAP, ELECT 47-10V
	87-017-149-080	ZENER,HZS6A2L		C313	87-010-401-080		CAP, ELECT 1-50V
	87-A40-270-080	C-DIODE,MC2838 <EXCEPT HRJS,HRD,HRL,HCL>		C315	87-010-426-080		C-CAP,S 0.012-25 B
				C318	87-010-426-080		C-CAP,S 0.012-25 B
				C319	87-A11-098-080		CAP,270PF-50 CH
				C320	87-010-197-080		CAP, CHIP 0.01 DM
				C322	87-010-248-080		CAP, ELECT 220-10V
				C324	87-010-186-080		CAP,CHIP 4700P
MAIN C.B				C327	87-010-405-080		CAP, ELECT 10-50V
				C328	87-010-405-080		CAP, ELECT 10-50V
C109	87-016-440-090	CAP,E 4700-35V SME		C329	87-010-178-080		CHIP CAP 1000P
C111	87-010-196-080	CHIP CAPACITOR,0.1-25		C330	87-010-178-080		CHIP CAP 1000P
C112	87-010-401-080	CAP, ELECT 1-50V		C331	87-010-178-080		CHIP CAP 1000P
C113	87-010-401-080	CAP, ELECT 1-50V		C332	87-010-263-080		CAP, ELECT 100-10V
C114	87-010-101-080	CAP, ELECT 220-16		C334	87-010-401-080		CAP, ELECT 1-50V
C115	87-010-101-080	CAP, ELECT 220-16		C335	87-010-260-080		CAP, ELECT 47-25V
C117	87-010-403-080	CAP, ELECT 3.3-50V		C341	87-010-197-080		CAP, CHIP 0.01 DM
C118	87-010-101-080	CAP, ELECT 220-16		C701	87-010-381-080		CAP, ELECT 330-16V
C119	87-010-196-080	CHIP CAPACITOR,0.1-25		C702	87-010-404-080		CAP, ELECT 4.7-50V
C120	87-010-263-080	CAP, ELECT 100-10V		C703	87-012-286-080		CAP, U 0.01-25
C201	87-010-248-080	CAP, ELECT 220-10V		C704	87-012-286-080		CAP, U 0.01-25
C203	87-010-248-080	CAP, ELECT 220-10V		C705	87-A10-592-080		C-CAP,S 0.015-50 J B <HRJS,HRD,HRL,HCL>
C204	87-010-197-080	CAP, CHIP 0.01 DM		C706	87-A10-592-080		C-CAP,S 0.015-50 J B <HRJS,HRD,HRL,HCL>
C207	87-010-196-080	C-CAP,S 0.1-25 F <EXCEPT HRJS,HRD,HRL,HCL>		C709	87-012-195-080		C-CAP,U 100P-50CH
C208	87-010-196-080	C-CAP,S 0.1-25 F <EXCEPT HRJS,HRD,HRL,HCL>		C711	87-010-260-080		CAP, ELECT 47-25V

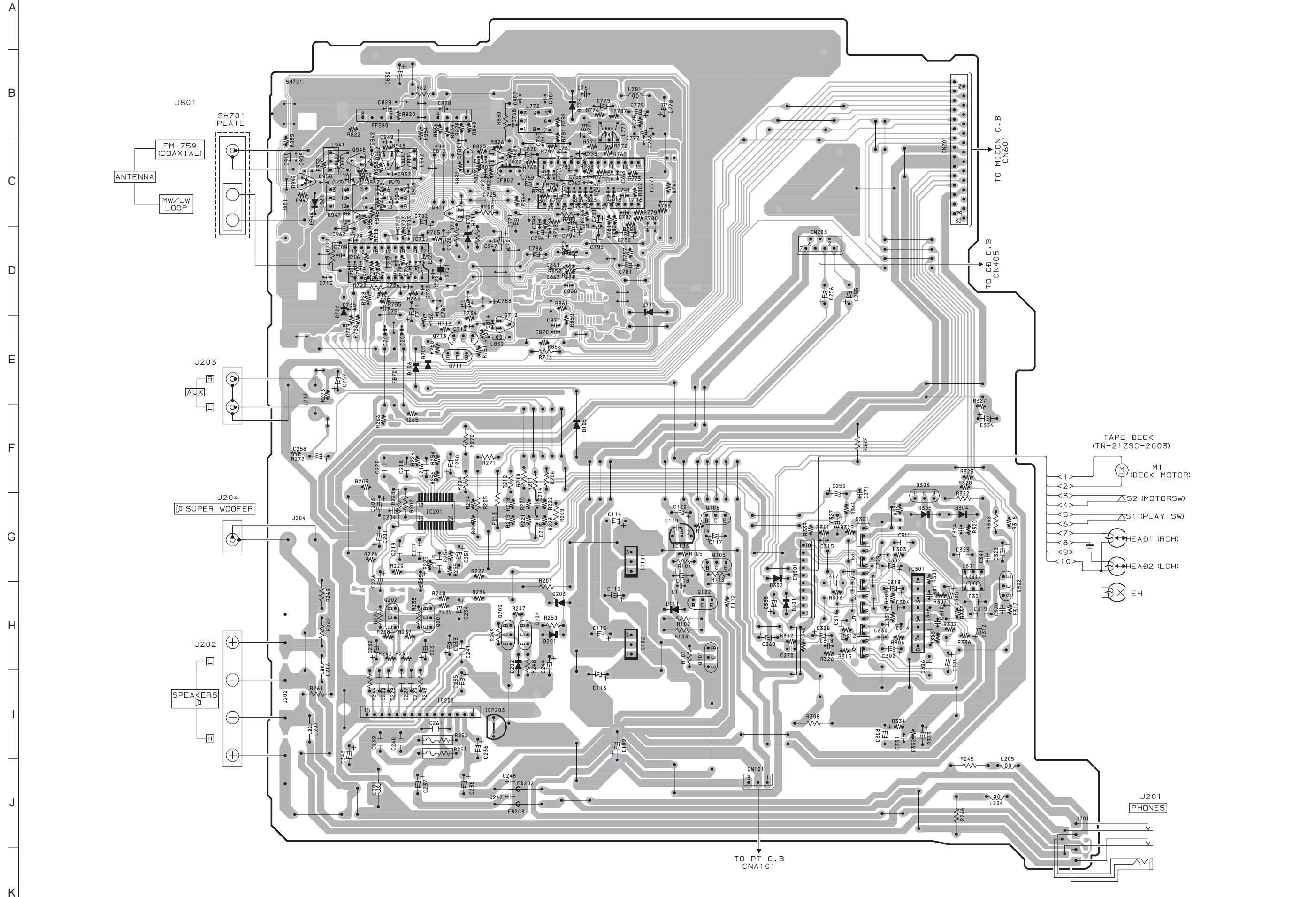
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C712	87-010-831-080		C-CAP,U,0.1-16F	C781	87-010-405-080		CAP, ELECT 10-50V
C714	87-012-286-080		CAP, U 0.01-25	C782	87-010-405-080		CAP, ELECT 10-50V
C715	87-012-195-080		C-CAP,U 100P-50CH <EXCEPT HRJS,HRD,HRL,HCL>	C783	87-012-286-080		CAP, U 0.01-25
C717	87-012-286-080		CAP, U 0.01-25	C784	87-012-286-080		CAP, U 0.01-25
C719	87-012-286-080		CAP, U 0.01-25	C785	87-010-402-080		CAP, ELECT 2.2-50V <EXCEPT HRJS,HRD,HRL,HCL>
C720	87-012-195-080		C-CAP,U 100P-50CH	C785	87-016-279-080		CAP,E 1-50 BP<HRJS,HRD,HRL,HCL>
C721	87-012-176-080		CAP 15P	C786	87-010-402-080		CAP, ELECT 2.2-50V <EXCEPT HRJS,HRD,HRL,HCL>
C722	87-012-176-080		CAP 15P	C786	87-016-279-080		CAP,E 1-50 BP<HRJS,HRD,HRL,HCL>
C723	87-018-131-080		CAP, CER 1000P-50V	C787	87-012-275-080		C-CAP,U 1200P-50 B <EXCEPT HRJS,HRD,HRL,HCL>
C725	87-018-131-080		CAP, CER 1000P-50V	C788	87-012-275-080		C-CAP,U 1200P-50 B <EXCEPT HRJS,HRD,HRL,HCL>
C727	87-010-196-080		CHIP CAPACITOR,0.1-25	C789	87-012-275-080		C-CAP,U 1200P-50 B
C728	87-010-248-080		CAP, ELECT 220-10V	C790	87-012-275-080		C-CAP,U 1200P-50 B
C729	87-012-274-080		CHIP CAP,U 1000P-50B	C791	87-010-405-080		CAP, ELECT 10-50V
C731	87-012-286-080		CAP, U 0.01-25	C793	87-012-273-080		C-CAP,U 820P-50 B
C733	87-010-987-080		C-CAP,S 1500P-50 CH <HRJS,HRD,HRL,HCL>	C794	87-010-406-080		CAP, ELECT 22-50
C733	87-012-280-080		CAP, U 3300P-50 <EXCEPT HRJS,HRD,HRL,HCL>	C795	87-010-596-080		CAP, S 0.047-16
C734	87-010-987-080		C-CAP,S 1500P-50 CH <HRJS,HRD,HRL,HCL>	C796	87-010-403-080		CAP, ELECT 3.3-50V
C734	87-012-280-080		CAP, U 3300P-50 <EXCEPT HRJS,HRD,HRL,HCL>	C797	87-012-276-080		CAP, CHIP SS 1500 PBK <EXCEPT HRJS,HRD,HRL,HCL>
C735	87-A10-592-080		C-CAP,S 0.015-50 J B <HRJS,HRD,HRL,HCL>	C798	87-012-276-080		CAP, CHIP SS 1500 PBK <EXCEPT HRJS,HRD,HRL,HCL>
C736	87-A10-592-080		C-CAP,S 0.015-50 J B <HRJS,HRD,HRL,HCL>	C812	87-012-286-080		CAP, U 0.01-25
C737	87-010-987-080		C-CAP,S 1500P-50 CH <HRJS,HRD,HRL,HCL>	C814	87-012-286-080		CAP, U 0.01-25 <EXCEPT HRJS,HRD,HRL,HCL>
C738	87-010-987-080		C-CAP,S 1500P-50 CH <HRJS,HRD,HRL,HCL>	C820	87-010-260-080		CAP, ELECT 47-25V
C751	87-010-220-080		C-CAP,S 0.018-25 B <HRJS,HRD,HRL,HCL>	C821	87-012-286-080		CAP, U 0.01-25
C752	87-010-220-080		C-CAP,S 0.018-25 B <HRJS,HRD,HRL,HCL>	C822	87-012-286-080		CAP, U 0.01-25
C752	87-012-282-080		CAP, U 4700P-50 <EXCEPT HRJS,HRD,HRL,HCL>	C823	87-012-286-080		CAP, U 0.01-25
C753	87-012-195-080		C-CAP,U 100P-50CH <EXCEPT HRJS,HRD,HRL,HCL>	C828	87-010-196-080		CHIP CAPACITOR,0.1-25
C755	87-012-286-080		CAP, U 0.01-25 <EXCEPT HRJS,HRD,HRL,HCL>	C829	87-010-196-080		CHIP CAPACITOR,0.1-25
C756	87-012-286-080		CAP, U 0.01-25	C830	87-010-406-080		CAP, ELECT 22-50 <EXCEPT HRJS,HRD,HRL,HCL>
C757	87-012-188-080		C-CAP,U 47P-50 CH	C940	87-012-286-080		CAP, U 0.01-25 <EXCEPT HRJS,HRD,HRL,HCL>
C758	87-012-167-080		C-CAP,U 5P-50 CH	C942	87-012-168-080		C-CAP,U 6P-50 CH <EXCEPT HRJS,HRD,HRL,HCL>
C761	87-010-196-080		CHIP CAPACITOR,0.1-25 <EXCEPT HRJS,HRD,HRL,HCL>	C947	87-012-286-080		CAP, U 0.01-25 <EXCEPT HRJS,HRD,HRL,HCL>
C762	87-012-286-080		CAP, U 0.01-25 <EXCEPT HRJS,HRD,HRL,HCL>	C949	87-A10-039-080		C-CAP,U 470P-50 J CH <EXCEPT HRJS,HRD,HRL,HCL>
C763	87-010-829-080		CAP, U 0.047-16	C952	87-012-286-080		CAP, U 0.01-25 <EXCEPT HRJS,HRD,HRL,HCL>
C764	87-012-337-080		C-CAP,U 56P-50 CH <HRJS,HRD,HRL,HCL>	C958	87-010-197-080		CAP, CHIP 0.01 DM <EXCEPT HRJS,HRD,HRL,HCL>
C765	87-012-286-080		CAP, U 0.01-25	C959	87-010-831-080		C-CAP,U,0.1-16F<HRJS,HRD,HRL,HCL>
C766	87-010-197-080		CAP, CHIP 0.01 DM <EXCEPT HRJS,HRD,HRL,HCL>	C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C766	87-010-197-080		CAP, CHIP 0.01 DM <EXCEPT HRJS,HRD,HRL,HCL>	C961	87-012-174-080		C-CAP,U 12P-50 J CH <HRJS,HRD,HRL,HCL>
C768	87-012-286-080		CAP, U 0.01-25	C962	87-010-401-080		CAP, ELECT 1-50V <EXCEPT HRJS,HRD,HRL,HCL>
C769	87-010-260-080		CAP, ELECT 47-25V	C963	87-010-196-080		CHIP CAPACITOR,0.1-25 <HRJS,HRD,HRL,HCL>
C770	87-010-829-080		CAP, U 0.047-16	CF801	87-008-423-010		CERAMIC FILTER, SFE10.7 <EXCEPT HRJS,HRD,HRL,HCL>
C771	87-010-383-080		CAP, ELECT 33-25V	CF801	87-008-261-010		FILTER, SFE10.7MA5-A <HRJS,HRD,HRL,HCL>
C772	87-010-829-080		CAP, U 0.047-16	CF802	82-785-747-010		CF MS2 GHY R <EXCEPT HRJS,HRD,HRL,HCL>
C773	87-010-196-080		CHIP CAPACITOR,0.1-25	CF802	87-008-261-010		FILTER, SFE10.7MA5-A <HRJS,HRD,HRL,HCL>
C774	87-010-263-080		CAP, ELECT 100-10V	CN101	87-049-919-010		CONN,3P EH V WHT
C775	87-010-404-080		CAP, ELECT 4.7-50V	CN201	87-099-719-010		CONN,30P TYK-B(X)
C776	87-012-286-080		CAP, U 0.01-25	CN203	87-A60-060-010		CONN,07P V 9604S-07C
C777	87-010-400-080		CAP, ELECT 0.47-50V <HRJS,HRD,HRL,HCL>	CN301	87-A60-627-010		CONN,10P V 2MM JMT
C777	87-010-493-080		CAP,E 0.47-50 GAS <EXCEPT HRJS,HRD,HRL,HCL>	FB202	87-008-372-080		FILTER,EMI BL OIRNI <EXCEPT HRJS,HRD,HRL,HCL>
C778	87-010-401-080		CAP, ELECT 1-50V	FB203	87-008-372-080		FILTER,EMI BL OIRNI <EXCEPT HRJS,HRD,HRL,HCL>
C779	87-010-401-080		CAP, ELECT 1-50V	FB701	87-008-372-080		FILTER, EMI BL OIRNI
C779	87-010-829-080		CAP, U 0.047-16				
C780	87-010-196-080		CHIP CAPACITOR,0.1-25				

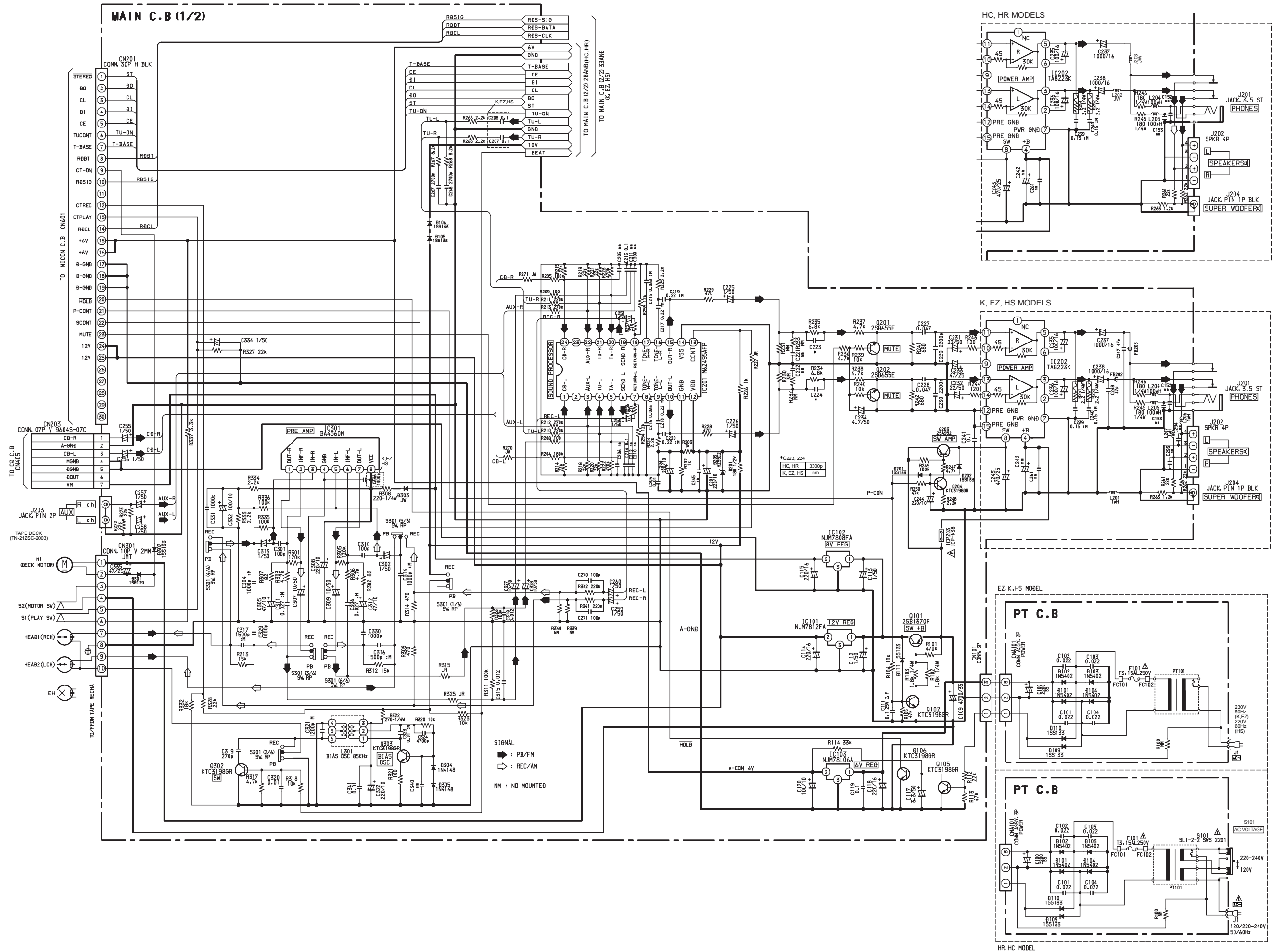
MAIN C.B (HR,HC MODEL)

A
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F
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K



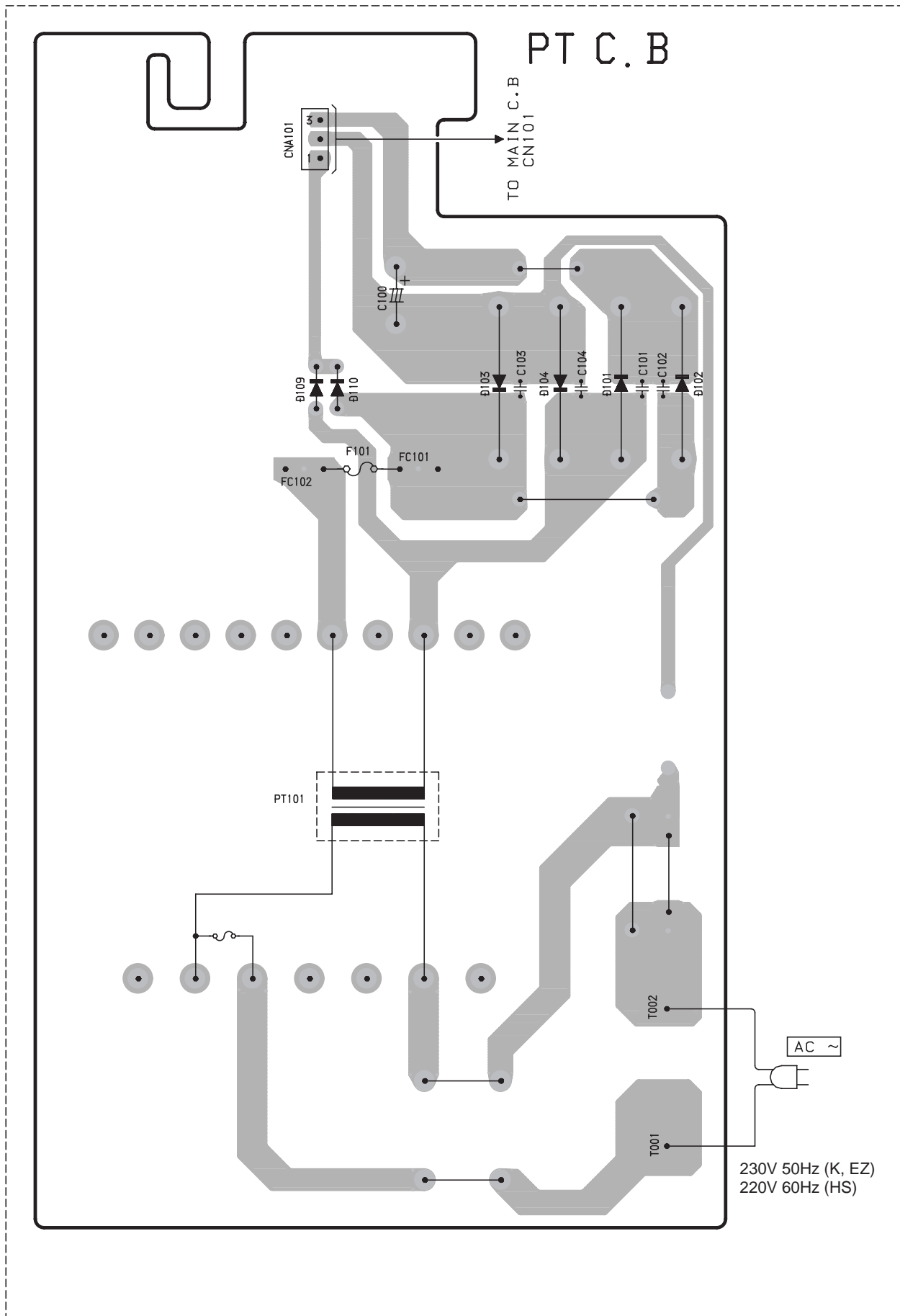
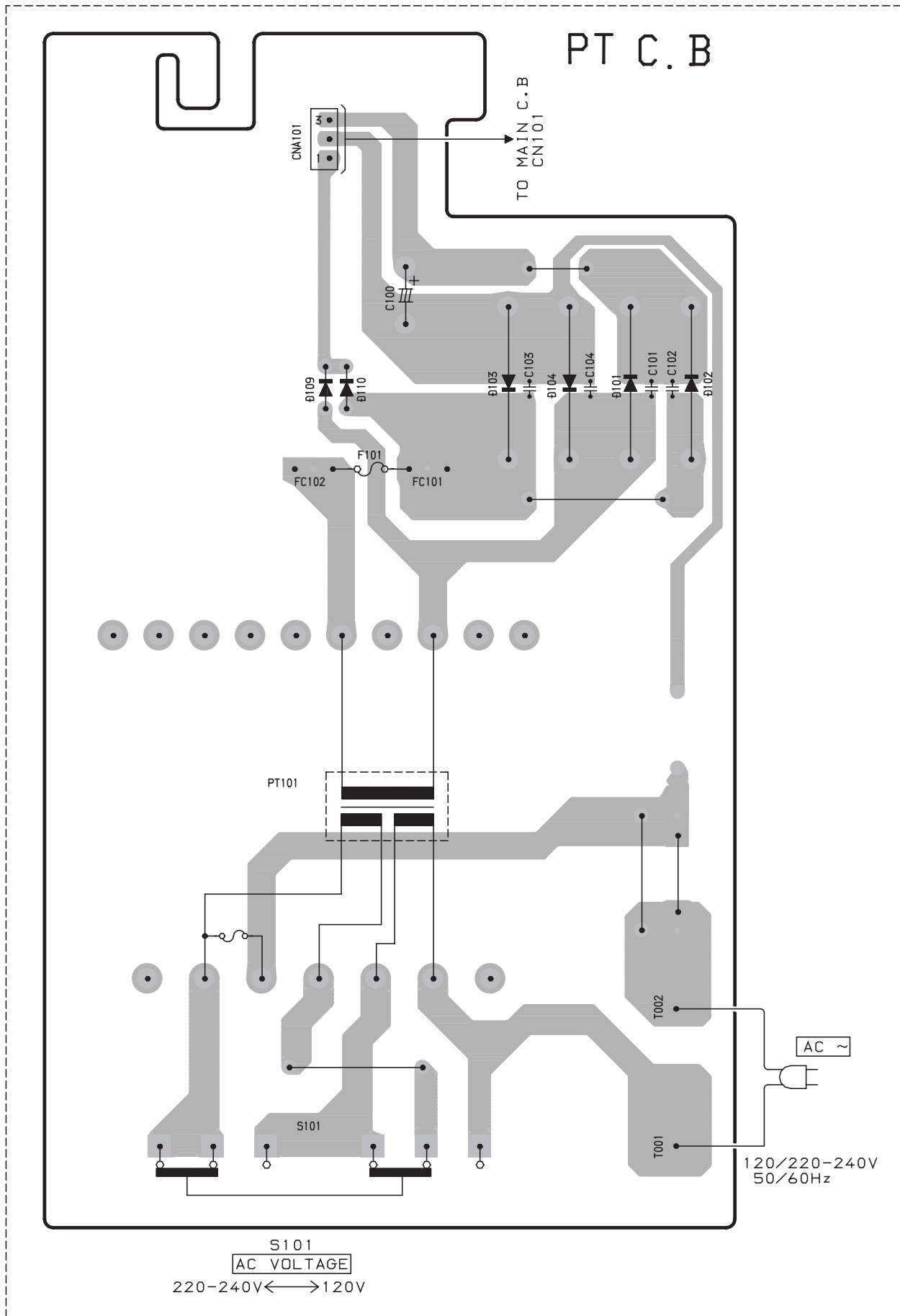
MAIN C. B (EZ, K, HS MODEL)

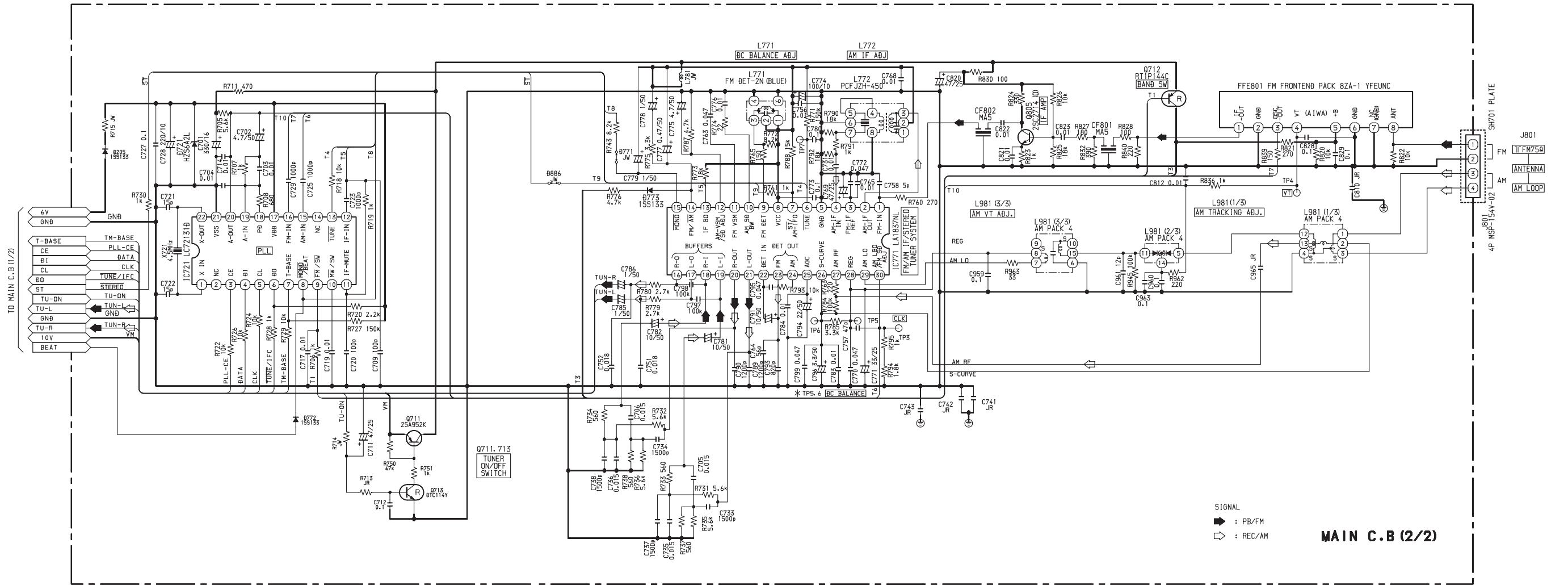




HR, HC MODEL

EZ, K, HS MODEL

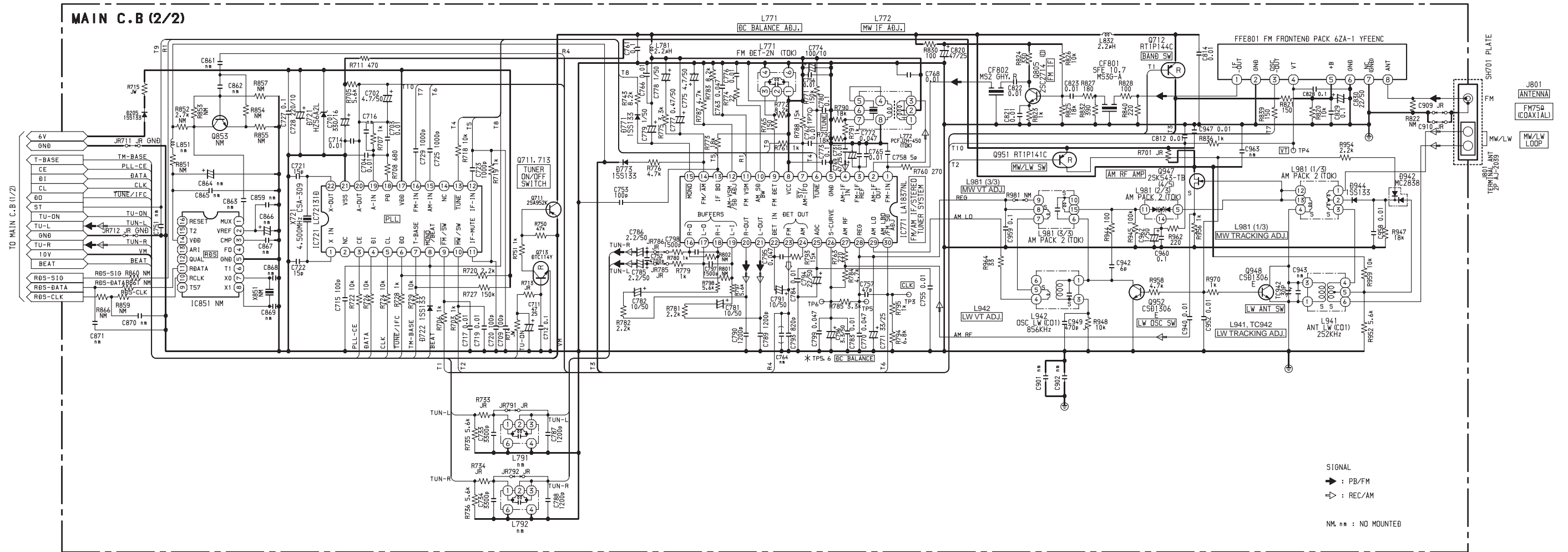




SIGNAL
 ● : PB/FM
 ◻ : REC/AM

MAIN C.B (2/2)

SCHEMATIC DIAGRAM-3 (TUNER: HS, K, EZ)

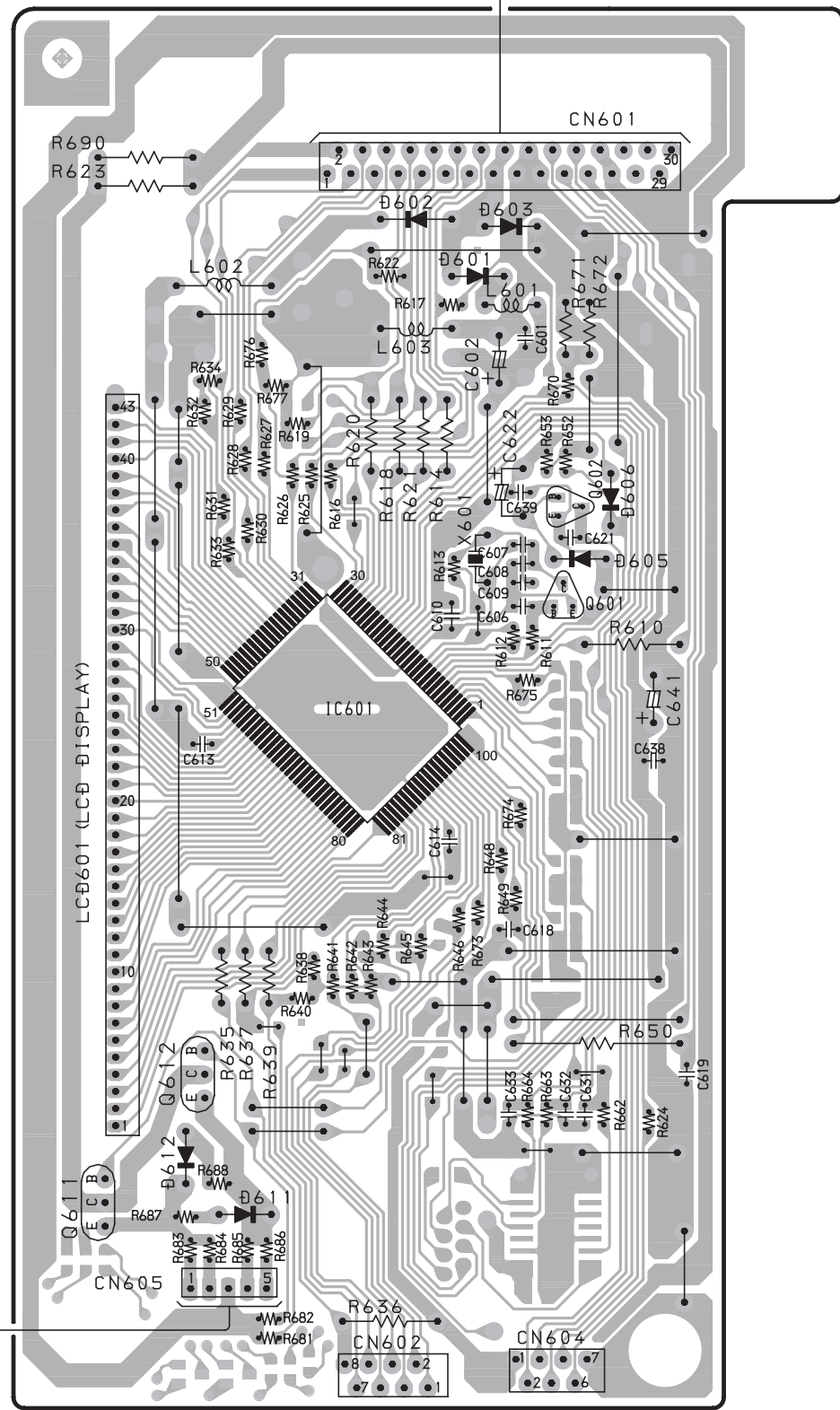


1 2 3 4 5 6 7 8 9 10 11 12 13 14

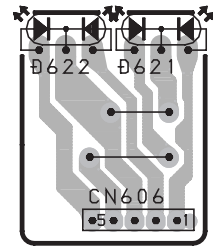
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K

MICON C.B

TO MAIN C.B
CN201

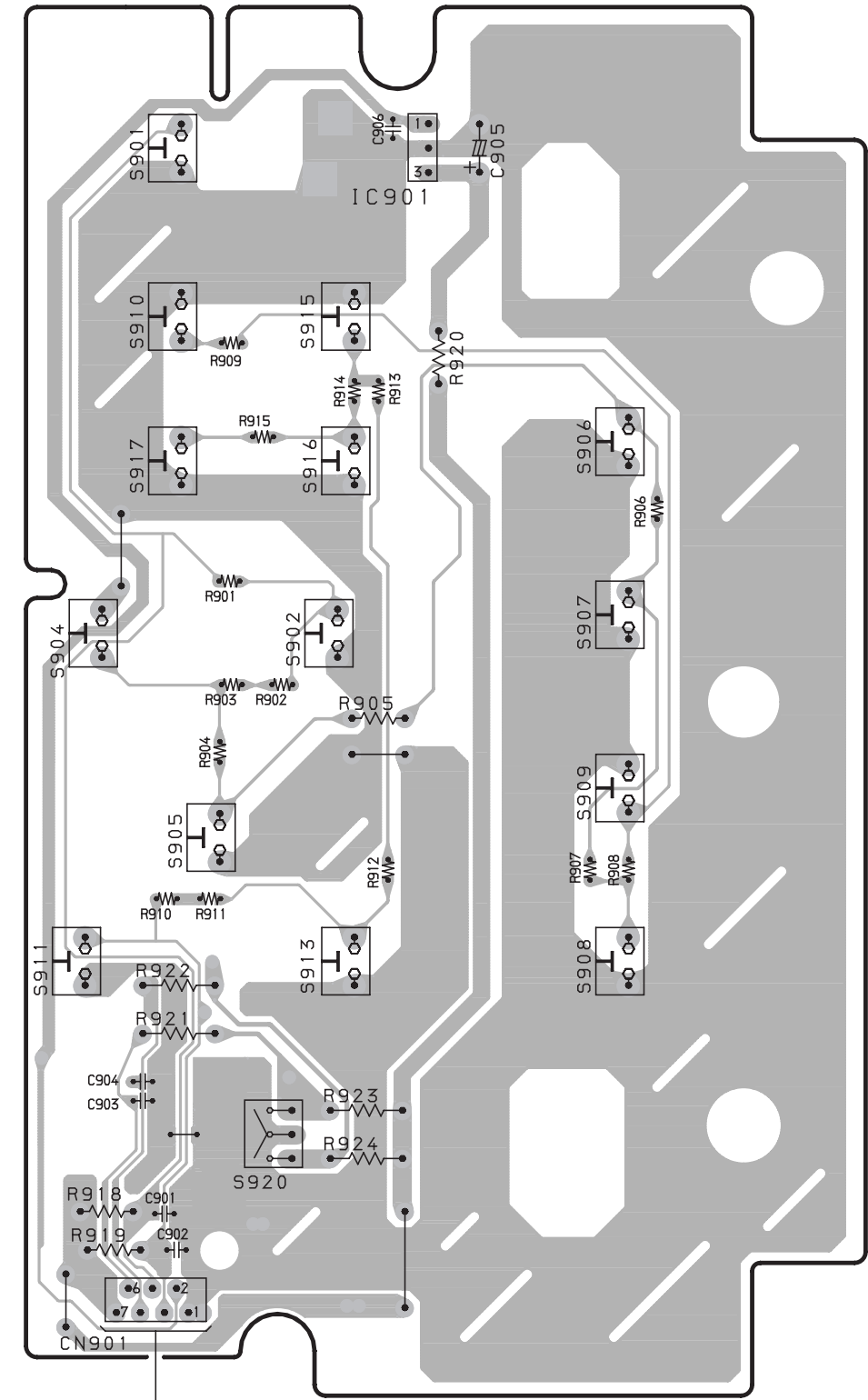


LED C.B



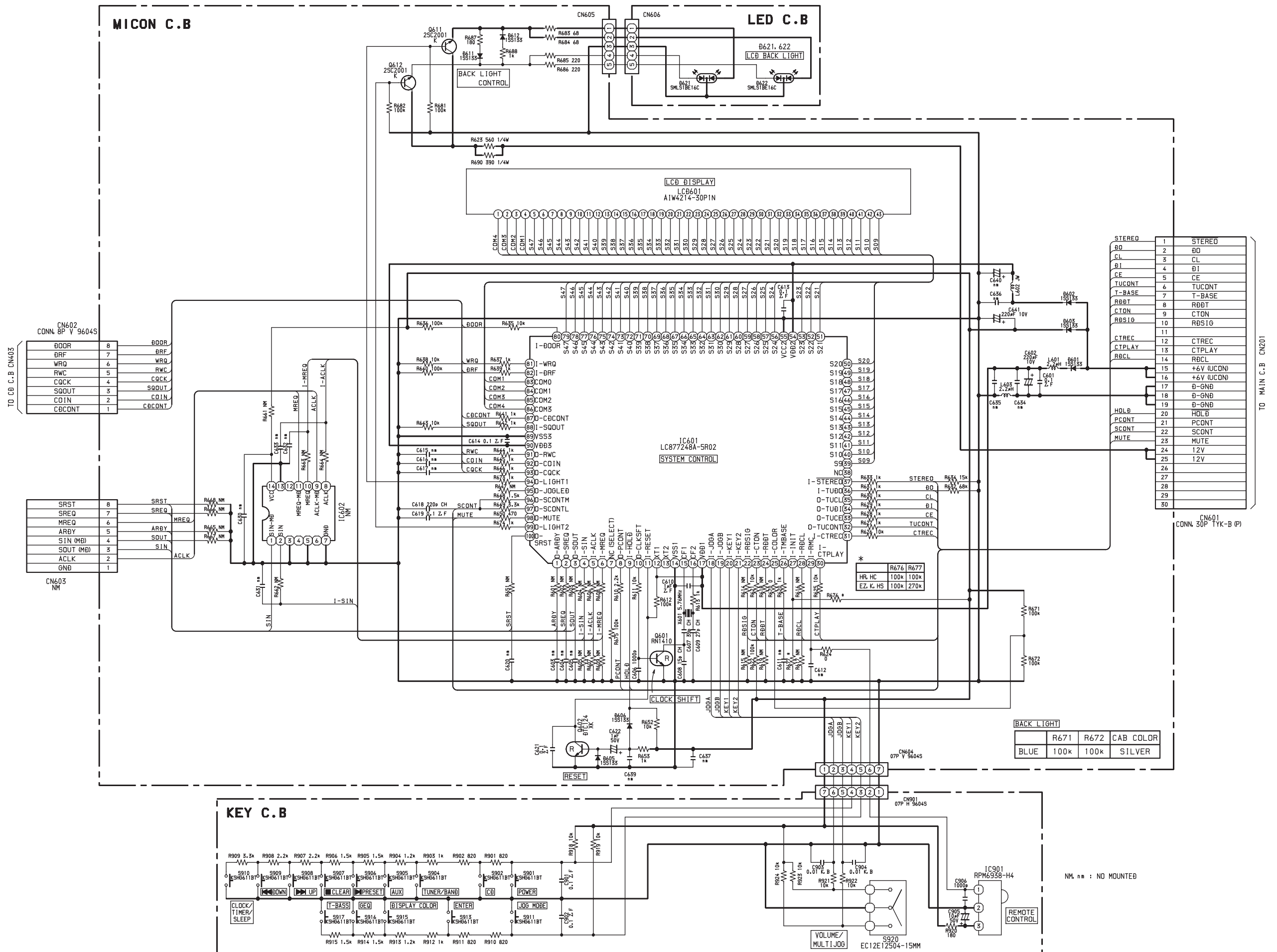
TO CB C.B CN403

KEY C.B



- S901 POWER ⏻ STANDBY/ON
- S910 CLOCK/TIMER/SLEEP
- S915 DISPLAY COLOR
- S917 T-BASS
- S916 GEQ
- S904 TUNER/BAND
- S902 CD
- S905 AUX
- S911 JOG MODE
- S913 ENTER
- IC901 REMOTO CONTROL
- S906 PRE SET
- S907 CLEAR
- S909 TUNING DOWN
- S908 TUNING UP

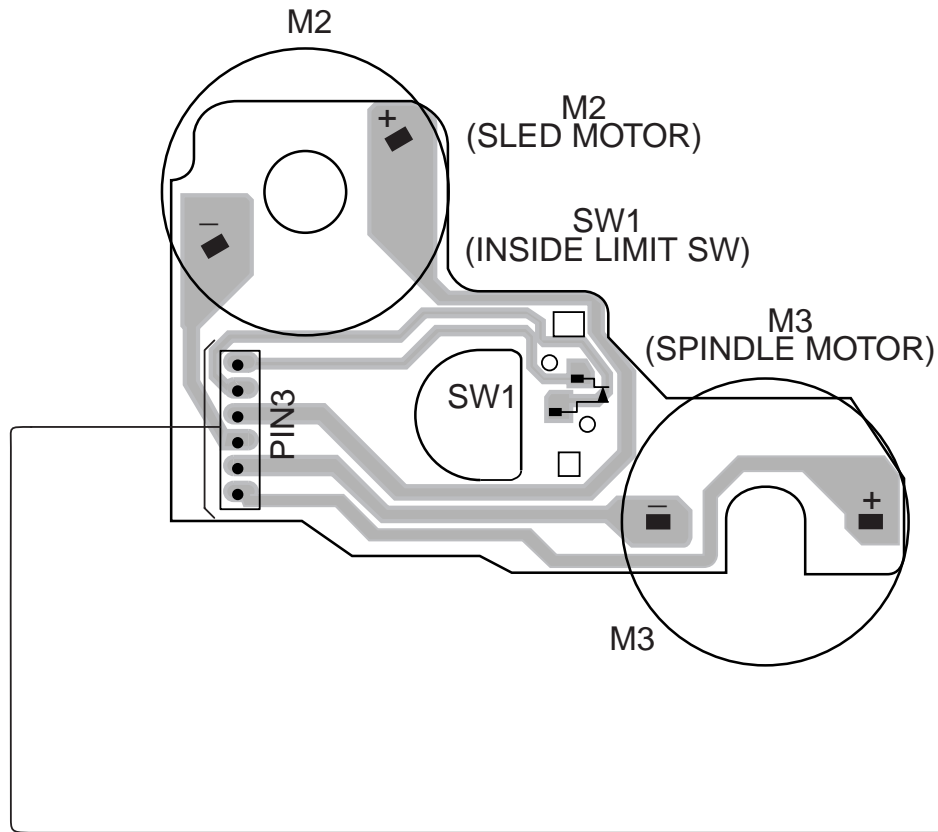
SCHEMATIC DIAGRAM-4 (MICON)



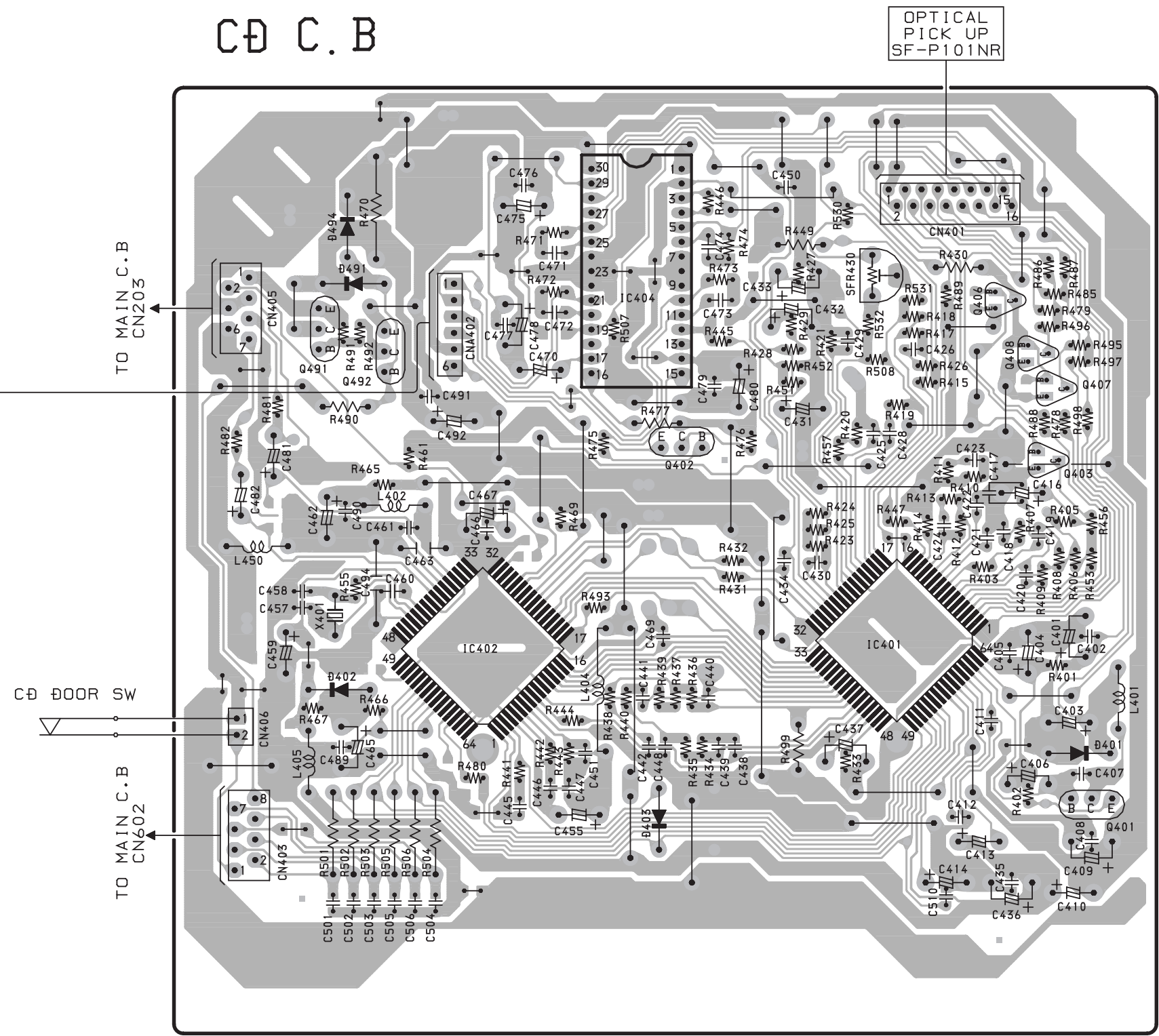
1 2 3 4 5 6 7 8 9 10 11 12 13 14

A
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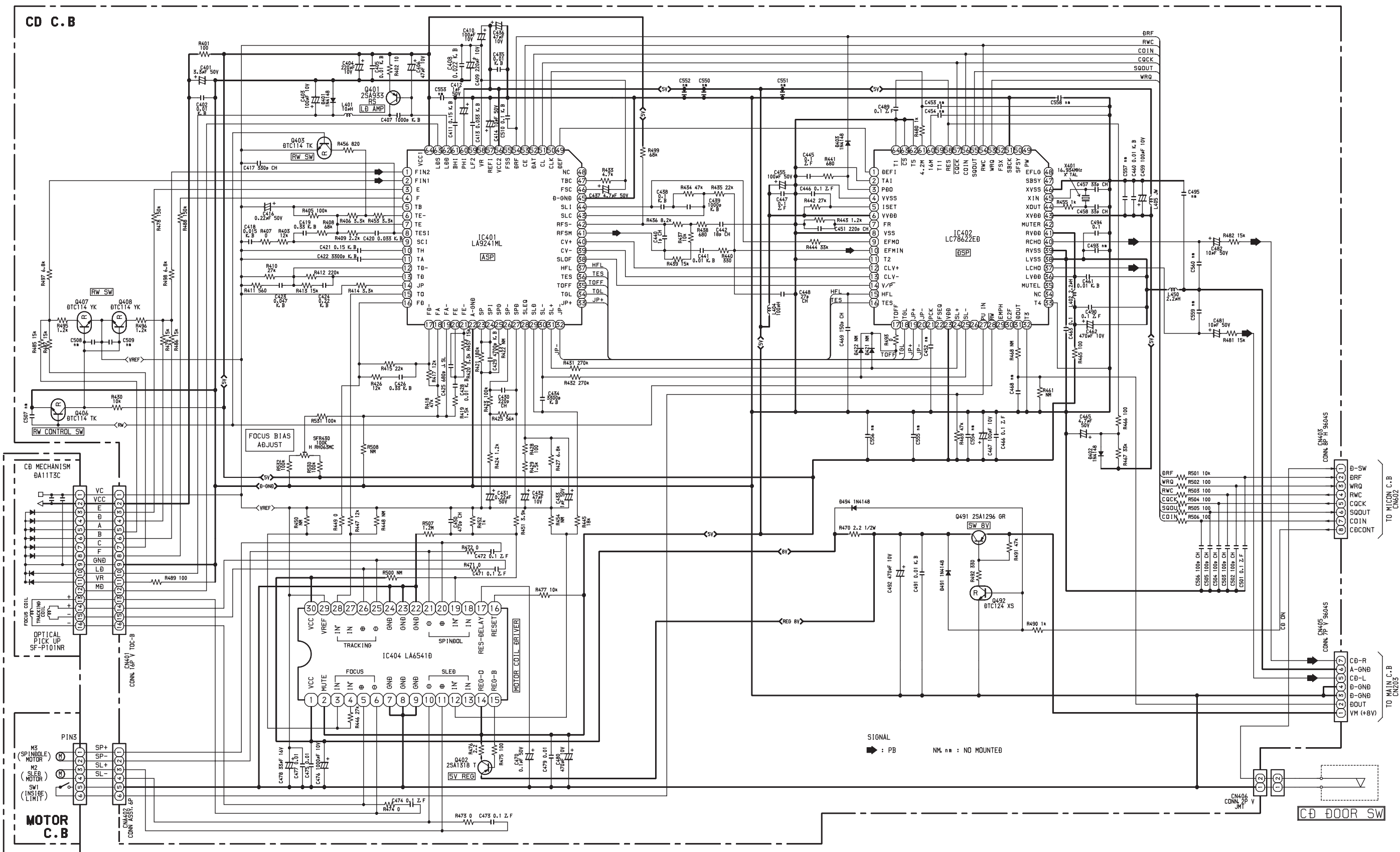
MOTOR C.B



CD C.B

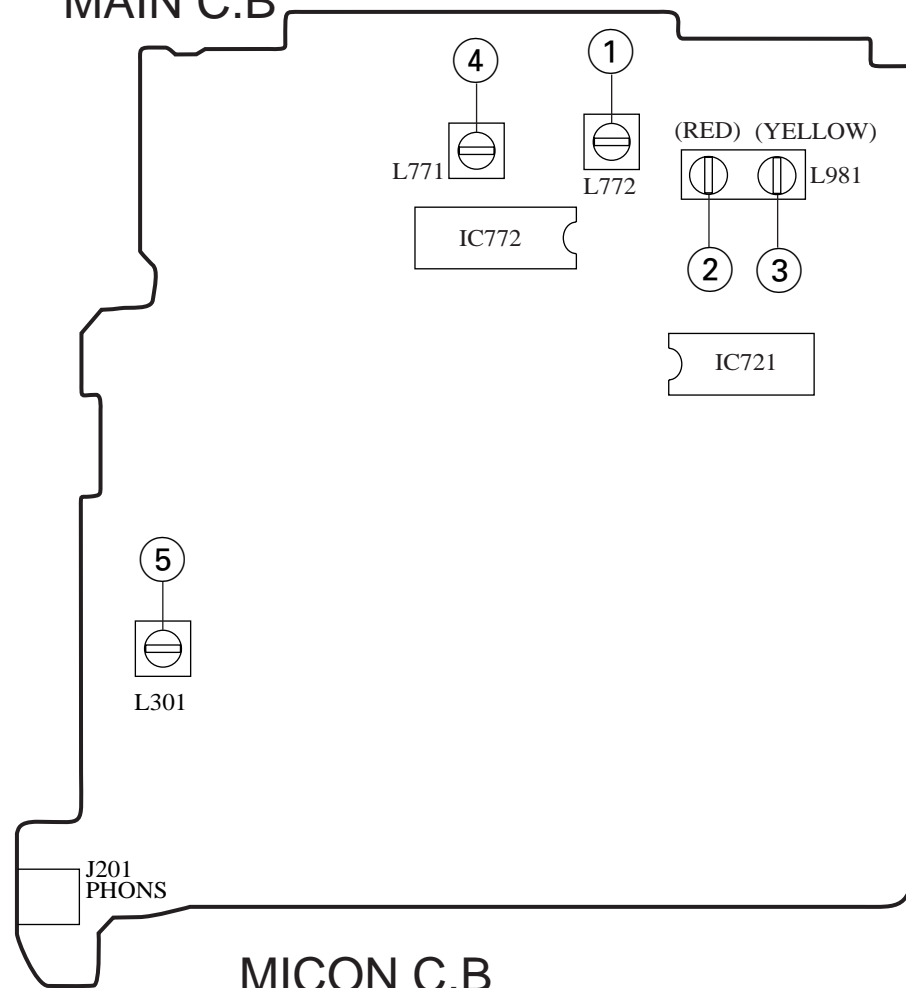


SCHEMATIC DIAGRAM-5 (CD)

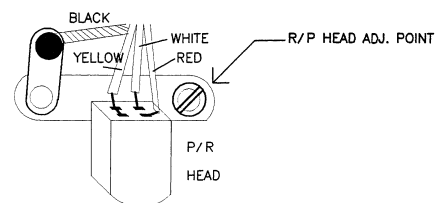
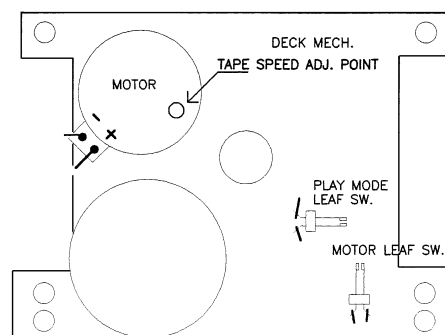
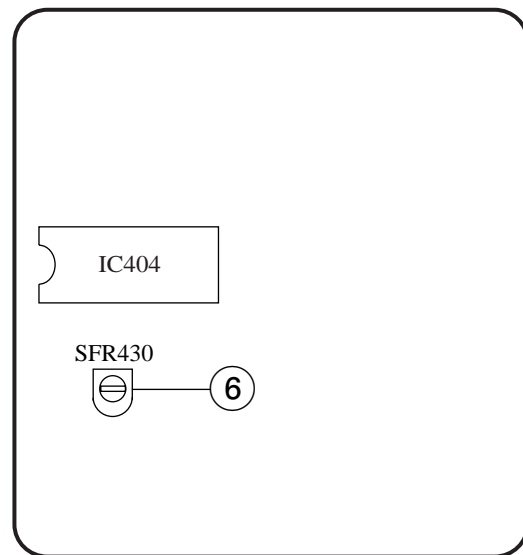


ELECTRICAL ADJUSTMENT-1 (HC, HR)

MAIN C.B

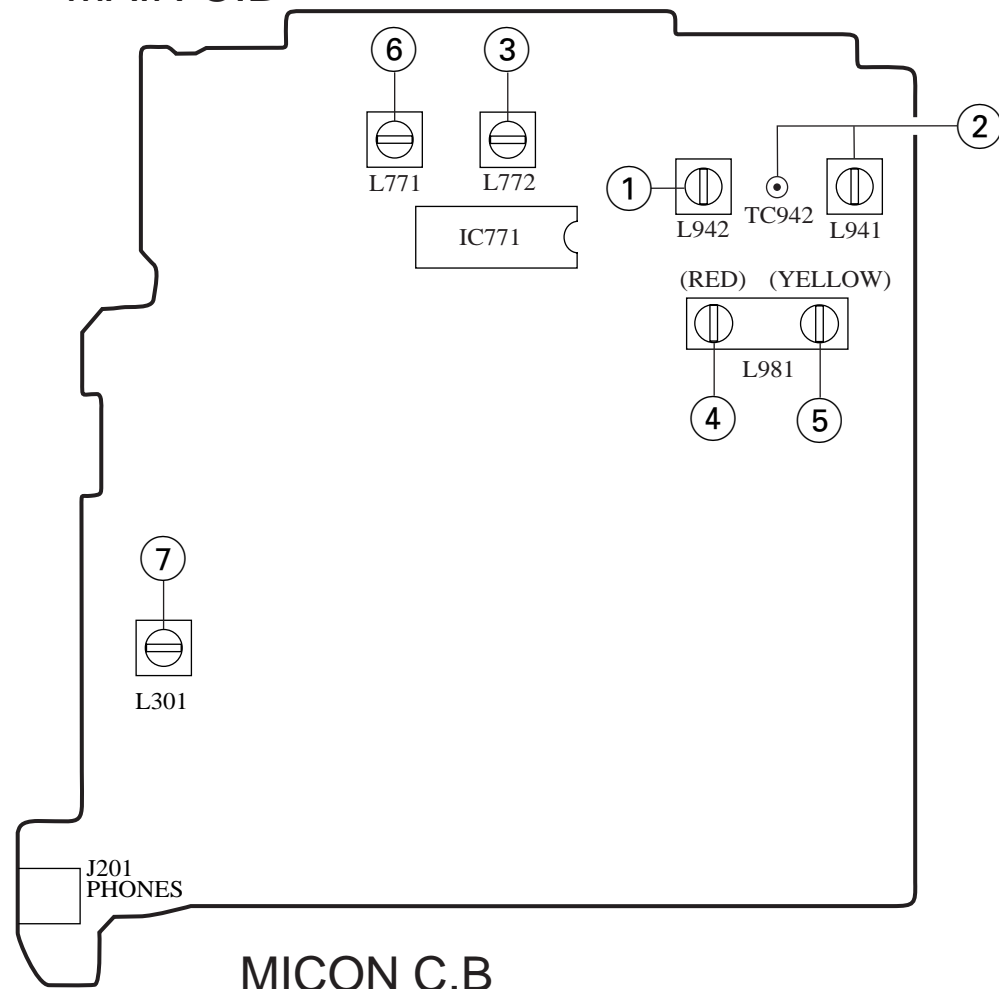


MICON C.B

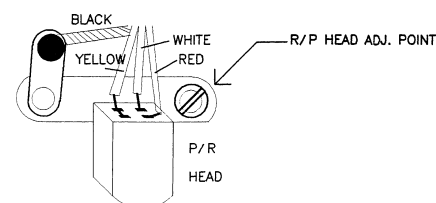
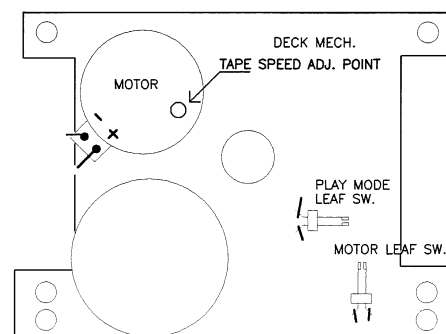
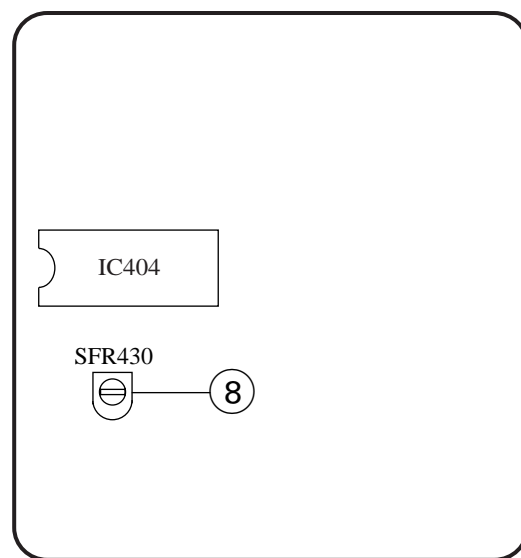


	VERSION	APPROVED	CHECKED	PREPARED	DATE
ADJUSTMENT ITEM	ADJ. POINT	TEST POINT	SET F.	SETTING	
① AM IF.	L772	Output	603KHz	Max output(mini. Distortion)	
② AM VT ADJ.	L981 RED	FFE801 4Pin to GND	1602KHz	6.9V (6.4V--7.4V) DC	
AM VT CHECK	-	FFE801 4Pin to GND	531KHz	1.46V(1.16V--1.76V) DC	
③ AM TRACKING	L981 YELLOW	Output	603KHz	Max output(mini. Distortion)	
FM VT CHECK	-	FFE801 4Pin to GND	108MHz	<8.0V DC	
FM VT CHECK	-	FFE801 4Pin to GND	87.5MHz	<1.5V DC	
④ DC BAL. ADJ.	L771	TP5 , TP6	98MHZ	0mV +/-20mV	
⑤ REC. BIAS F.	L301	Both terminal of C321		85KHz +/- 3KHz	
⑥ FOCUS BIAS ADJUSTMENT	SFR 430	FE & Vref		0mV +/- 20mV	
TEST SPEED	MOTOR	SPEAKER OUTPUT	-	3000Hz +3/-2%	
DECK R/P HEAD ADJ	R/P HEAD	SPEAKER OUTPUT	8KHz TEST TAPE	-	

MAIN C.B



MICON C.B



	VERSION	APPROVED	CHECKED	PREPARED	DATE
ADJUSTMENT ITEM	ADJ. POINT	TEST POINT	SET F.	SETTING	
① LW VT ADJ.	L942	FFE801 4Pin to GND	290KHz	5.0V (5.0V--5.5V) DC	
LW VT CHECK	-	FFE801 4Pin to GND	144KHz	<=2.5V DC	
② LW TRACKING ADJ.	TC942	Output	290KHz	Max output(mini. Distortion)	
	L941	Output	144KHz	Max output(mini. Distortion)	
③ MW IF.	L772	Output	603KHz	Max output(mini. Distortion)	
④ MW VT ADJ.	L981 RED	FFE801 4Pin to GND	1602KHz	5.5V(5.2 V--5.8V) DC	
MW VT CHECK	-	FFE801 4Pin to GND	531KHz	<=2.0V	
⑤ MW TRACKING	L981 YELLOW	Output	999KHz	Max output(mini. Distortion)	
FM VT CHECK	-	FFE801 4Pin to GND	108MHz	<8.0V DC	
FM VT CHECK	-	FFE801 4Pin to GND	87.5MHz	<2.5V DC	
⑥ DC BAL. ADJ.	L771	TP5 , TP6	98MHZ	0mV +/-20mV	
⑦ REC. BIAS F.	L301	Both terminal of C321		85KHz +/- 3KHz	
⑧ FOCUS BIAS ADJUSTMENT	SFR 430	FE & Vref		0mV +/- 20mV	
TAPE SPEED	MOTOR	SPEAKER OUTPUT	-	3000Hz +3/-2%	
DECK R/P HEAD ADJ.	R/P HEAD	SPEAKER OUTPUT	8KHz TEST TAPE	-	

VOLTAGE CHART

FUNCTION : TAPE
 TEST CONDITION : TAPE STOP
 UPPER : Pin's Number / LOWER : Voltage

IC301 : BA4560N

1	2	3	4	5	6	7	8
3.5	3.5	3.5	0	3.5	3.5	3.5	7

IC201 : M62495AFP

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2.7	0	2.7	2.7	2.7	2.7	2.7	2.5	2.7	2.7	2.7	5.3	2.7	0	2.7
16	17	18	19	20	21	22	23	24						
2.7	2.5	2.7	2.7	2.7	2.7	2.7	0	2.7						

IC101 : NJM7812FA

1	2	3
19.2	12.3	0

IC102 : NJM7808FA

1	2	3
19.2	8.1	0

IC103 : NJM78L06

1	2	3
19.1	5.9	0

Q101 : 2SB1370F

E	C	B
19.1	19.1	18.4

IC202 : TA8223K

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0	18.5	10	18.9	9.9	18.6	0	18.9	9.9	0.6	0	0	0	0.6	0

FUNCTION : TUNER
 TEST CONDITION : FM(87.5MHz),MW(531kHz)
 UPPER : Pin's Number / LOWER : Voltage

IC721 : LC7231D

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2.6	0	0	0	0	5	-	9.5	0	0	0	0	10.4	0	0
2.6	0	0	0	0	5.1	-	0	10.6	0	0	0	10.5	0	2.6
16	17	18	19	20	21	22								
2.6	5.2	1	1	1	0	2.6								
0	5.3	1	1	1.6	0	2.6								

IC771 : LA1837NL

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
3.6	10.6	3.6	3.6	0	10.4	5.5	10.6	10.6	1.5	0.2	0	0.6	9.5	9.5
3.6	10.6	3.6	3.6	0	10.5	5.5	10.6	10.6	1.5	0	0	0.6	5.8	6.3
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
4.3	4.3	4.3	4.3	3.4	3.4	2.9	3.5	0.1	0	3.7	3.6	3.6	3.6	1.9
4.3	4.3	4.3	4.3	3.3	3.3	2.8	-	0.6	0.6	3.6	3.6	3.6	3.6	1.8

Q711 : 2SA952K

E	C	B
10.6	10.6	9.8

IC404 : LA6541D

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
8	4.9	2.5	2.5	3.6	3.6	0	0	0	3.6	3.6	2.5	2.5	4.9	7.3
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
4.9	4.8	2.5	2.5	3.6	3.6	0	0	0	3.6	3.6	2.5	2.5	2.5	8

Q491 : 2SA1296GR

E	C	B
8	8	7.3

FUNCTION : CD
 TEST CONDITION : CD STOP
 UPPER : Pin's Number / LOWER : Voltage

IC401 : LA9241ML

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
2.5	2.5	2.5	2.5	2.5	2.5	0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.3
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
2.3	0	0	4.9	4.9	0	0	4.9	0	0	1.6	2.4	2.5	2.5	0
46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
2.5	2.5	0	0	2.4	5.2	5.2	0	0	0	4.9	2.5	2.5	0.9	0.9
61	62	63	64											
2.2	4.2	0	4.9											

IC402 · LC78622ED

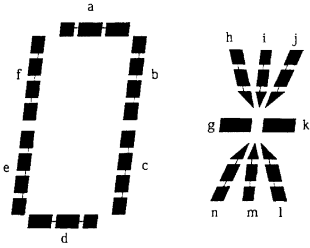
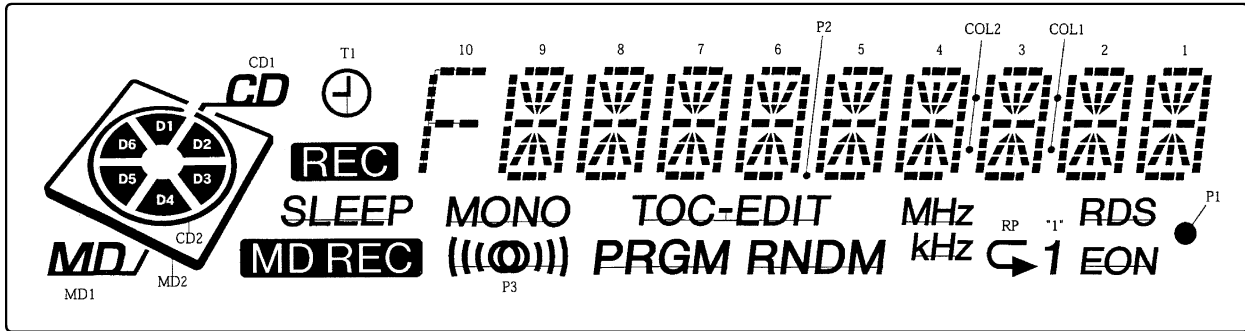
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0	0	0	0	2	4.9	0	0	2.5	2.5	0	0	0	4.9	0
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
0	4.9	4.9	0	0	2.4	0	4.9	0	0	4.9	4.9	0	0	4.9
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
0	0	0	0	4.9	4.7	2	0	0	2	4.7	4.9	4.9	2	2
46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
0	-	2.2	0	2.4	0	2.4	0	0	0	5.2	5.2	4.9	0	2.5
61	62	63	64											
2.2	0	0	0											

IC601 : LC877248A

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0	0	0	0	0	0	0	5.2	5.2	5.2	5.1	5.1	0.1	0	2.5
16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
2.6	5.1	5.2	0	1.8	5.2	0	5.2	0	0	-	2.7	0	5	0
31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
0	0	0	0	0	0.1	0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	5.3	0	2.5	2.5	2.6	2.5	2.5
61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
2.5	2.5	2.5	2.6	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.5	2.5	2.5	2.5
76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
2.5	2.5	2.5	2.5	0	0	0	2.6	2.6	2.6	2.6	0	0	0	5.3
91	92	93	94	95	96	97	98	99	100					
0	0	0	0	0	0.1	0	5.2	5.2	0					

FL (AIW4214-30PIN ACJ-11) GRID ASSIGNMENT/ANODE CONNECTION

GRID ASSIGNMENT



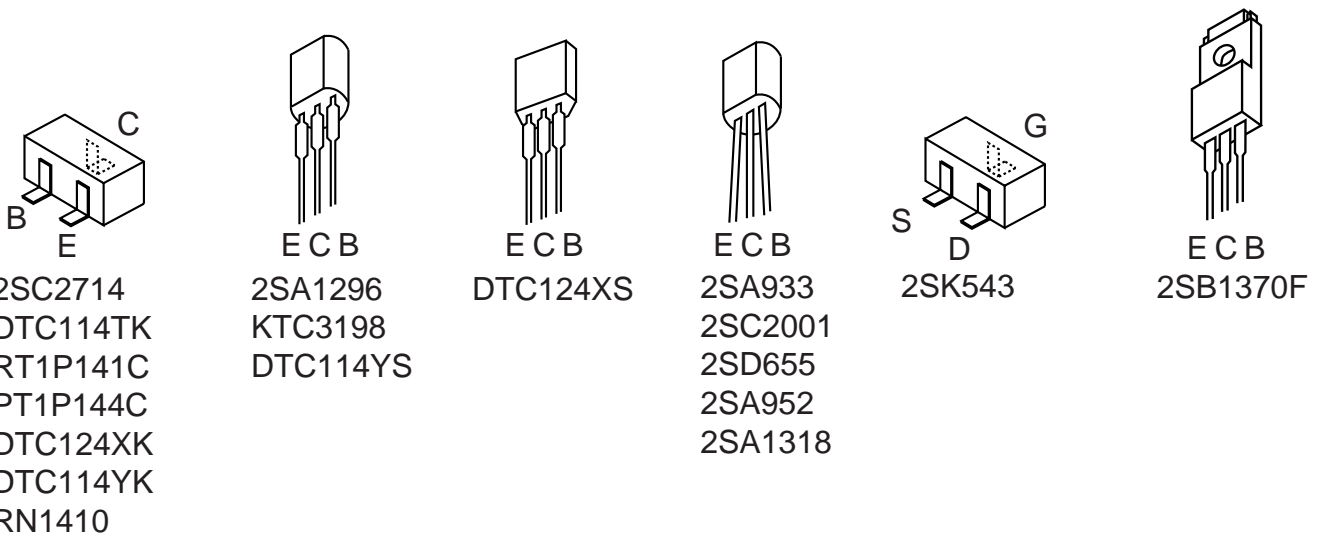
ANODE CONNECTION

No	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
COM1	---	---	---	COM1	1a	1i	1h	1f	2a	2i	2h	COL1	3a	3i	3h
COM2	---	---	COM2	---	1b	1j	1g	1e	2b	2j	2g	2f	3b	3j	3g
COM3	---	COM3	---	---	1c	1k	1n	1d	2c	2k	2n	2e	3c	3k	3n
COM4	COM4	---	---	---	P1	1l	1m	EON	RDS	2l	2m	2d	"1"	3l	3m

No	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
COM1	3f	---	4a	4i	4h	4f	5a	5i	5h	5f	6a	6i	6h	6f	7a
COM2	3e	COL2	4b	4j	4g	4e	5b	5j	5g	5e	6b	6j	6g	6e	7b
COM3	3d	MHz	4c	4k	4n	4d	5c	5k	5n	5d	6c	6k	6n	6d	7c
COM4	RP	kHz	---	4l	4m	---	P3	5l	5m	RNDM	P2	6l	6m	PRGM	TOC-EDIT

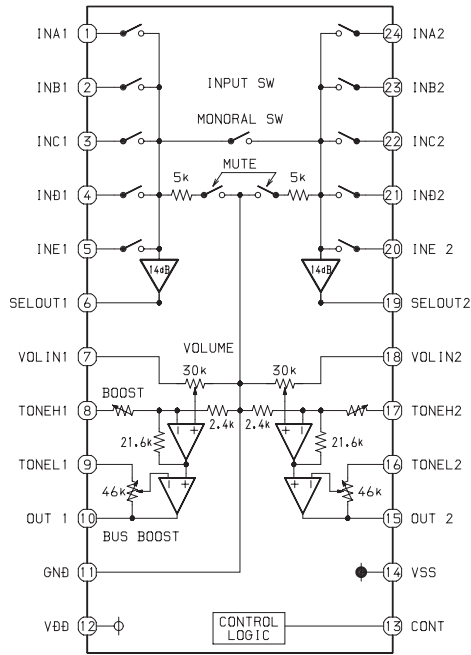
No	31	32	33	34	35	36	37	38	39	40	41	42	43
COM1	7i	7h	7f	8a	8i	8h	8f	9a	9i	9h	9f	MD1	D3,D6
COM2	7j	7g	7e	8b	8j	8g	8e	9b	9j	9g	9e	T1	D2,D5
COM3	7k	7n	7d	8c	8k	8n	8d	9c	9k	9n	9d	CD1	CD2
COM4	7l	7m	MD REC	MONO	8l	8m	SLEEP	REC	9l	9m	10	MD2	D1,D4

TRANSISTOR ILLUSTRATION

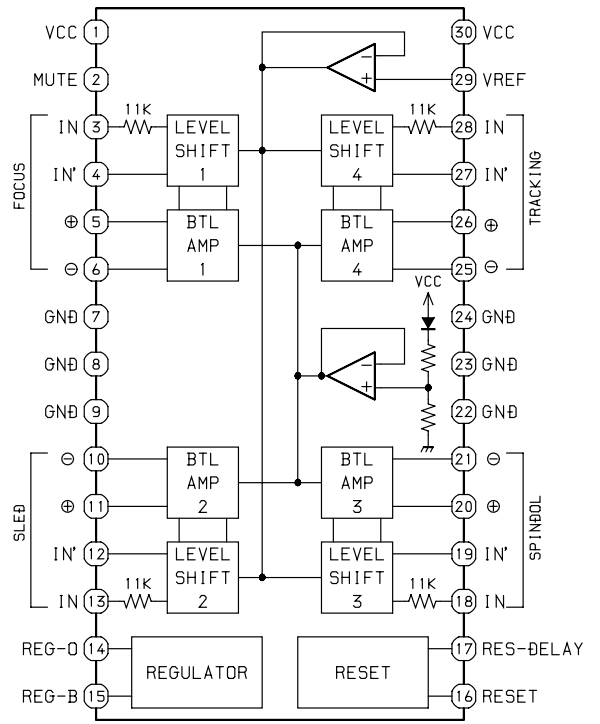


IC BLOCK DIAGRAM

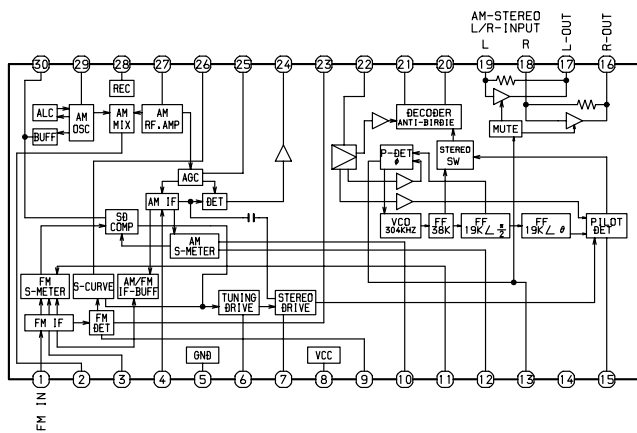
IC, M62495AFP



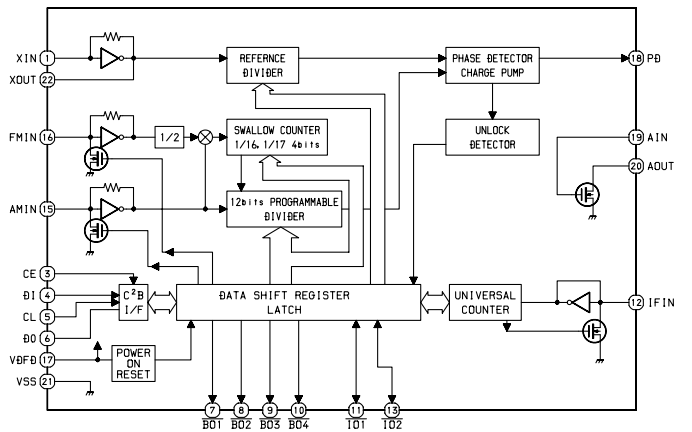
IC, LA6541D



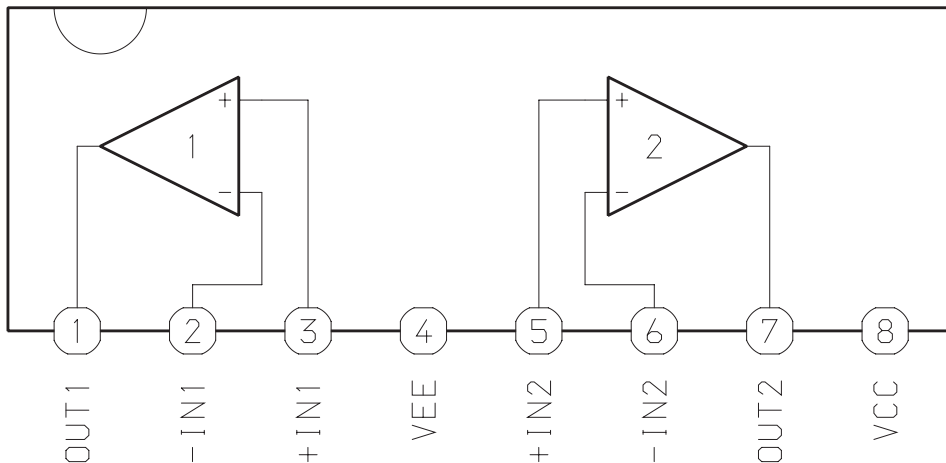
IC, LA1837NL



IC, LC72131D



IC, BA4560N



IC DESCRIPTION
IC, LC877248A-5R02

Pin No.	Pin Name	I/O	Description
1	O-ARDY	O	Not connected.
2	O-SREQ	O	
3	O-SOUT	O	
4	I-SIN	I	
5	I-ACLK	I	
6	I-MREQ	I	
7	NC (SELECT)	O	Pull down.
8	O-PCONT	O	Main power control.
9	I-HOLD	I	Hold status detection.
10	O-CLKSFT	O	Clock shift control.
11	I-RESET	I	Reset terminal.
12	XT1	I	Connected to VDD.
13	XT2	O	Not connected.
14	VSS1	—	GND.
15	CF1	I	External ceramics oscillator (5.76 MHz) is connected to this pin (input).
16	CF2	O	External ceramics oscillator (5.76 MHz) is connected to this pin (output).
17	VDD1	—	Power supply positive polarity (+) terminal.
18	I-JOGA	I	Jog dial detection A.
19	I-JOGB	I	Jog dial detection B.
20	I-KEY1	I	Tact key, AD input detection.
21	I-KEY	I	
22	I-RDSIG	I	RDS signal level input, AD input.
23	I-CTON	I	CT DECK power supply detection.
24	I-RDDT	I	RDS data input.
25	I-COLOR	I	LCD back light initial setting input.
26	I-TMBASE	I	8Hz clock reference frequency input.
27	I-INIT	I	Tuner destination, initial setting input.
28	I-RDCL	I	RDS clock input.
29	I-RMC	I	Remote controller receptor signal input.
30	I-CTPLAY	I	CT DECK PLAY detection.
31	I-CTREC	I	CT DECK REC detection.
32	O-TUCONT	O	Tuner power supply control.
33	O-TUCE	O	Tuner, Chip enable output for PLL communication.
34	O-TUDI	O	Tuner, Serial data output for PLL communication.
35	O-TUCL	O	Tuner, Clock output for PLL communication.
36	I-TUDO	I	Tuner, Serial data input for PLL communication.
37	I-STEREO	I	Tuner stereo reception detection.
38	NC	—	Not connected.
39-53	S9-S23	O	LCD SEG terminal initial setting output. (No.43-29)
54	VDD2	—	Power supply positive polarity (+) terminal.
55	VCC2	—	GND.

Pin No.	Pin Name	I/O	Description
56-79	S24-S47	O	LCD SEG terminal initial setting output. (No.28-5)
80	I-DOOR	I	CD door detection.
81	I-WRQ	I	Sub-code Q reading stand-by for CD LSI communication.
82	I-DRF	I	RF level detection input.
83-86	COM0-COM3	O	LCD common output. (No.4-1)
87	O-CDCONT	O	CD power supply control.
88	I-SQOUT	I	Sub-code Q input for CD LSI communication.
89	VSS3	—	Power supply - terminal.
90	VDD3	—	GND.
91	O-RWC	O	Input/output selector control for CD LSI communication.
92	O-COIN	O	Serial data output for CD LSI communication.
93	O-CQCK	O	Serial clock output for CD LSI communication.
94	O-LIGHT1	O	Control output 1 of LCD back light.
95	O-JOGLD	O	Not connected.
96	O-SCONTM	O	Sound processor control.
97	O-SCONTL	O	
98	O-MUTE	O	Audio signal mute output.
99	O-LIGHT2	O	Control output 2 of LCD back light.
100	O-SRST	O	Not connected.

IC, LA9241ML

Pin No.	Pin Name	I/O	Description
1	FIN2	I	Pin to which external pickup photo diode is connected. RF signal is created by adding with the FIN1 pin signal. FE signal is created by subtracting from the FIN1 pin signal.
2	FIN1	I	Pin to which external pickup photo diode is connected.
3	E	I	Pin to which external pickup photo diode is connected. TE signal is created by subtracting from the F pin signal.
4	F	I	Pin to which external pickup photo diode is connected.
5	TB	I	DC component of the TE signal is input.
6	TE-	I	Pin to which external resistor setting the TE signal gain is connected between the TE pin.
7	TE	O	TE signal output pin.
8	TESI	I	TES "Track Error Sense" comparator input pin. TE signal is passed through a band-pass filter then input.
9	SCI	I	Shock detection signal input pin.
10	TH	I	Tracking gain time constant setting pin.
11	TA	O	TA amplifier output pin.
12	TD-	I	Pin to which external tracking phase compensation constants are connected between the TD and VR pins.
13	TD	I	Tracking phase compensation setting pin.
14	JP	I	Tracking jump signal (kick pulse) amplitude setting pin.
15	TO	O	Tracking control signal output pin.
16	FD	O	Focusing control signal output pin.
17	FD-	I	Pin to which external focusing phase compensation constants are connected between the FD and FA pins.
18	FA	I	Pin to which external focusing phase compensation constants are connected between the FD- and FA- pins.
19	FA-	I	Pin to which external focusing phase compensation constants are connected between the FA and FE pins.
20	FE	O	FE signal output pin.
21	FE-	I	Pin to which external FE signal gain setting resistor is connected between the FE pin.
22	AGND	—	Analog signal GND.
23	SP	—	No connection.
24	SPI	O	Single ended output of the CV+ and CV- pin input signal.
25	SPG	I	Pin to which external spindle gain setting resistor in 12 cm mode is connected.
26	SP-	I	Pin to which external spindle phase compensation constants are connected together with SPD pin.
27	SPD	O	Spindle control signal output pin.
28	SLEQ	I	Pin to which external sled phase compensation constants are connected.
29	SLD	O	Sled control signal output pin.
30, 31	SL-, SL+	I	Sled advance signal input pin from microprocessor.
32, 33	JP-, JP+	I	Tracking jump signal input pin from DSP.
34	TGL	I	Tracking gain control signal input from DSP. Low gain when TGL = H.
35	TOFF	I	Tracking off control signal input pin from DSP. Off when TOFF = H.

Pin No.	Pin Name	I/O	Description
36	TES	O	Pin from which TES signal is output to DSP.
37	HFL	O	“High Frequency Level” is used to judge whether the main beam position is on top of bit or on top of mirror.
38	SLOF	I	Sled servo off control input pin.
39, 40	CV-, CV+	I	CLV error signal input pin from DSP.
41	RFSM	O	RF output pin.
42	RFS-	I	RF gain setting and EFM signal 3T compensation constant setting pin together with RFSM pin.
43	SLC	O	“Slice Level Control” is the output pin which controls the RF signal data slice level by DSP.
44	SLI	I	Input pin which control the data slice level by the DSP.
45	DGND	—	Digital system GND.
46	FSC	O	Output pin to which external focus search smoothing capacitor is connected.
47	TBC	I	“Tracking Balance Control” EF balance variable range setting pin.
48	NC	—	No connection.
49	DEF	O	Disc defect detector output pin.
50	CLK	I	Reference clock input pin. 4.23 MHz of the DSP is input.
51	CL	I	Microprocessor command clock input pin.
52	DAT	I	Microprocessor command data input pin.
53	CE	I	Microprocessor command chip enable input pin.
54	DRF	O	“Detect RF” RF level detector output.
55	FSS	I	“Focus Search Select” focus search mode (\pm search/+ search) select pin.
56	VCC2	—	Servo system and digital system Vcc pin.
57	REFI	—	Pin to which external bypass capacitor for reference voltage is connected.
58	VR	O	Reference voltage output pin.
59	LF2	I	Disc defect detector time constant setting pin.
60	PH1	I	Pin to which external capacitor for RF signal peak holding is connected.
61	BH1	I	Pin to which external capacitor for RF signal bottom holding is connected.
62	LDD	O	APC circuit output pin.
63	LDS	I	APC circuit input pin.
64	VCC1	—	RF system Vcc pin.

IC, LC78622ED

Pin No.	Pin Name	I/O	Description	
1	DEFI	I	Defect sense signal (DEF) input pin. (Connect to 0V when not used).	
2	TAI	I	For PLL.	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.
3	PDO	O		Phase comparator output pin to control external VCO.
4	VVSS	—		GND pin for built-in VCO. Be sure to connect to 0V.
5	ISET	I		Pin to which external resistor adjusting the PDO output current.
6	VVDD	—		Power supply pin for built-in VCO.
7	FR	I		Pin for VCO frequency range adjustment.
8	VSS	—	Digital system GND. Be sure to connect to 0V.	
9	EFMO	O	For slice level control.	EFM signal output pin.
10	EFMIN	I		EFM signal input pin.
11	TEST2	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.	
12, 13	CLV+, CLV-	O	Disc motor control output. Three level output is possible using command.	
14	$\overline{V/P}$	O	Rough servo or phase control automatic selection monitoring output pin. Rough servo at H. Phase servo at L.	
15	HFL	I	Track detect signal input pin. Schmidt input.	
16	TES	I	Tracking error signal input pin. Schmidt input.	
17	TOFF	O	Tracking OFF output pin.	
18	TGL	O	Tracking gain selection output pin. Gain boost at L.	
19, 20	JP+, JP-	O	Track jump control signal output pin. Three level output is possible using command.	
21	PCK	O	EFM data playback clock monitoring pin 4.3218 MHz when phase is locked in.	
22	FSEQ	O	Sync signal detection output pin. H when the sync signal which is detected from EFM signal and the sync signal which is internally generated agree.	
23	VDD	—	Digital system power supply pin.	
24	SL+	I/O	General purpose input/output pin 1 to 5.	The pin is controlled by the serial data command from microprocessor. When the pin is not used, set the pin to the input terminal and connect to 0V, or alternately set the pin to output terminal and leave the pin open.
25	SL-			
26	NC			
27	PUIN			
28	RW			
29	EMPH			
30	C2F	O	C2 flag output pin.	
31	DOUT	O	DIGITAL OUT output pin. (EIAJ format).	
32, 33	TEST3, TEST4	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.	
34	N.C.	—	Not used. Set the pin to open.	
35	MUTEL	O	L-channel 1-bit DAC.	L-channel mute output pin.
36	LVDD	—		L-channel power supply pin.
37	LCHO	O		L-channel output pin.
38	LVSS	—		L-channel GND. Be sure to connect to 0V.
39	RVSS	—	R-channel 1-bit DAC.	R-channel GND. Be sure to connect to 0V.
40	RCHO	O		R-channel output pin.
41	RVDD	—		R-channel power supply pin.
42	MUTER	O		R-channel mute output pin.

Pin No.	Pin Name	I/O	Description
43	XVDD	—	Crystal oscillator power supply pin.
44	XOUT	O	Pin to which external 16.9344 MHz crystal oscillator is connected.
45	XIN	I	
46	XVSS	—	Crystal oscillator GND pin. Be sure to connect to 0V.
47	SBSY	O	Subcode block sync signal output pin.
48	EFLG	O	C1, C2, single and dual correction monitoring pin.
49	PW	O	Subcode P, Q, R, S, T, U and W output pin.
50	SFSY	O	Subcode frame sync signal output pin. Falls down when subcode enters standby.
51	SBCK	I	Subcode read clock input pin. Schmidt input. (Be sure to connected to 0V when not in use.)
52	FSX	O	Pin outputting the 7.35 kHz sync signal which is generated by dividing frequency of crystal oscillator.
53	WRQ	O	Subcode Q output standby output pin.
54	RWC	I	Read/write control input pin. Schmidt input.
55	SQOUT	O	Subcode Q output pin.
56	COIN	I	Command input pin from microprocessor.
57	$\overline{\text{CQCK}}$	I	Command input read clock or subcode read input clock from SQOUT pin
58	$\overline{\text{RES}}$	I	LC78622 reset input pin. Set this pin to L once when the main power is turned on.
59	TST11	O	Test signal output pin. Use this pin as open (normally L output).
60	16M	O	16.9344 MHz output pin.
61	4.2M	O	4.2336 MHz output pin.
62	TEST5	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.
63	$\overline{\text{CS}}$	I	Chip select signal input pin with built-in pull-down resistor. Be sure to connect to 0V while it is not controlling.
64	TEST1	I	Test signal input pin without built-in pull-down resistor. Be sure to connect to 0V.

Note: The same potential must be applied to the respective power supply terminals. (VDD, VVDD, LVDD, RVDD, XVDD)

MECHANICAL PARTS LIST 1/1

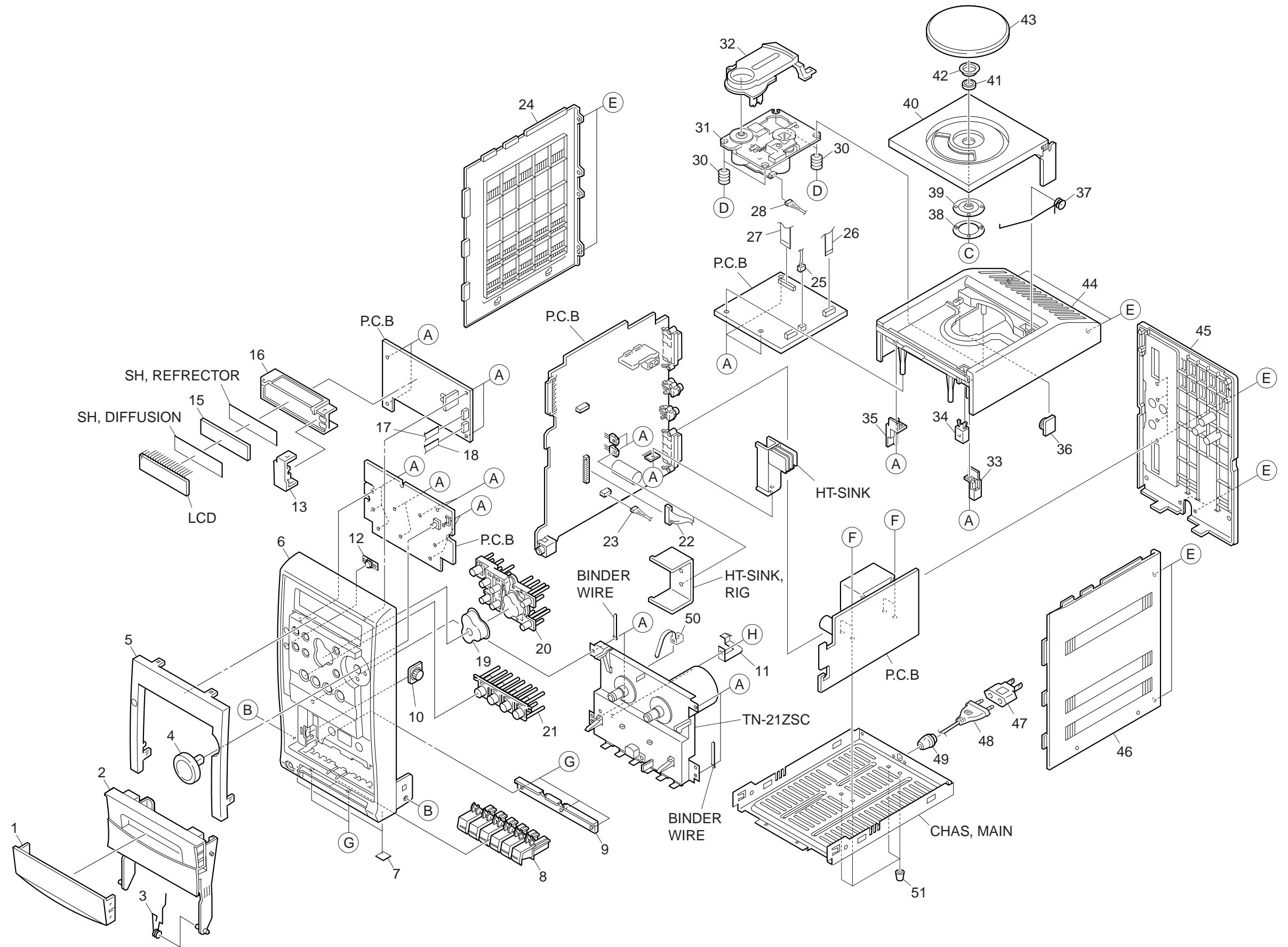
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
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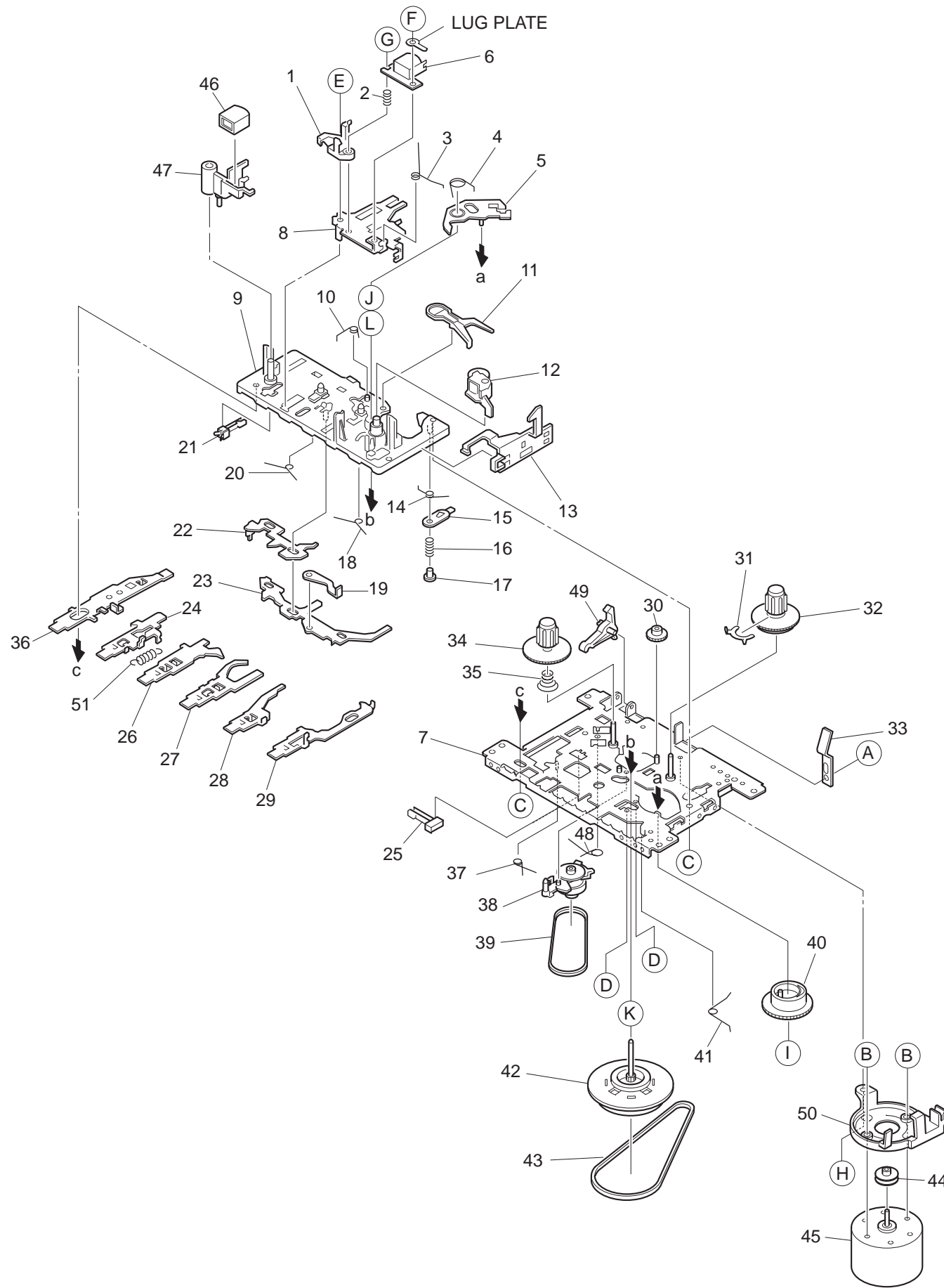
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CJB-034-010		WINDOW, CASS (D) <HRD, KD, EZD>	33	8A-CJB-206-010		HLDR, CHAS CD R
1	8A-CJB-011-010		WINDOW, CASS (L) <HRL, KL, EZL, HSL, HCL>	34	87-036-389-010		SW, PUSH LOCK
1	8A-CJB-044-010		WINDOW, CASS (S) <HRJS, HRS, KS, EZS>	35	8A-CJB-205-010		HLDR, CHAS CD L
2	8A-CLC-010-010		LID, CASS (D) <HRD, KD, EZD>	36	8Z-NF6-210-010		DMPR, 150 N
2	8A-CLC-027-010		LID, CASS (DS) <HRJS, HRS, KS, EZS>	37	8A-CLC-206-010		SPR-T, CD
2	8A-CLC-009-010		LID, CASS (L) <HRL, KL, EZL, HSL, HCL>	38	88-CD9-211-210		RING, CHUCK
3	8A-CJB-221-010		SPR-T, CASS	39	8Z-CDB-170-110		BASE, CHUCK
4	8A-CJB-020-010		KNOB, RTRY JOG	40	8A-CJB-006-010		LID, CD <HRL, KL, EZL, HSL, HCL>
5	8A-CJB-033-010		WINDOW, DISP (D) <HRD, KD, EZD>	40	8A-CJB-051-010		LID, CD (D) <HRD, KD, EZD>
5	8A-CLC-028-010		WINDOW, DISP (DS) <HRJS, HRS, KS, EZS>	40	8A-CLC-026-010		LID, CD (DS) <HRJS, HRS, KS, EZS>
5	8A-CJB-010-010		WINDOW, DISP (L) <HRL, KL, EZL, HSL, HCL>	41	87-036-368-010		MAGNET
6	8A-CLC-007-010		CABI, FR EX (D) <HRD, KD, EZD>	42	84-CT5-209-010		PLATE, MAGNET
6	8A-CLC-025-010		CABI, FR EX (DS) <HRJS, HRS, KS, EZS>	43	8A-CJB-032-010		WINDOW, CD (D) <HRD, KD, EZD>
6	8A-CLC-001-010		CABI, FR EX (L) <HRL, KL, EZL, HSL, HCL>	43	8A-CJB-009-010		WINDOW, CD (L) <HRL, KL, EZL, HSL, HCL>
7	8A-CJB-027-010		CUSH, FOOT <HCL>	43	8A-CJB-042-010		WINDOW, CD (S) <HRJS, HRS, KS, EZS>
7	8A-CJB-061-010		CUSH, FOOT MAIN	44	8A-CJB-005-010		CHAS, CD
8	8A-CJB-019-010		KEY, CASS	45	8A-CJB-028-010		PANEL, REAR EZ <KS, KD, KL, EZS, EZD, EZL, HSL>
9	8A-CJB-207-010		HLDR, KEY CASS	45	8A-CJB-029-010		PANEL, REAR H <HRJS, HRS, HRD, HRL, HCL>
10	86-NFZ-231-010		DMPR, 70	46	8A-CJB-004-010		PANEL, R
11	8A-CJB-212-010		SPR-P, REC	47	87-099-726-010		PLUG, ADPTR CONV(K) <KS, KD, KL>
12	8A-CJB-012-010		WINDOW, RC	⚠	87-A80-092-010		AC CORD ASSY, E BLK SUN FAI <EXCEPT HSL, HCL>
13	8A-CJB-210-010		COVER, LED	⚠	87-A80-155-010		AC CORD ASSY, HS TS <HSL>
15	8A-CJB-218-010		PLATE, REFLECTOR	⚠	87-A80-083-010		AC CORD, HC BLK <HCL>
16	8A-CJB-208-010		CUIDE, LCD	49	87-085-185-010		BUSHING, AC CORD (E)
17	88-908-101-110		FF-CABLE, 8P 1.25 10MM	50	87-A90-193-010		HLDR, CV100 (B)
18	88-907-121-110		FF-CABLE, 7P 1.25 120MM	51	8Z-NB8-240-010		COVER, PL
19	8A-CLC-005-010		COVER, KEY FUNC (D) <HRD, KD, EZD>	A	87-067-703-010		TAPPING SCREW, BVT2+3-10
19	8A-CLC-004-010		COVER, KEY FUNC (L) <EXCEPT HRD, KD, EZD>	B	87-723-095-410		QT2+3-8 BLK
20	8A-CLC-002-010		KEY, CONT A	C	87-253-033-110		SCREW, U+2-4
21	8A-CLC-003-010		KEY, CONT B	D	8A-CK4-223-010		S-SCREW, CD
22	8A-CJB-625-010		CONN ASSY, 10P DECK	E	87-B10-230-010		BVT2+3-10 W/O SLOT SILVER CR
23	8A-CLC-610-010		CONN ASSY, 3P POWER	F	87-067-586-010		TAPPING SCREW, BVT2+4-8
24	8A-CJB-003-010		PANEL, L	G	87-078-150-010		BVT2+3-6 SIL
25	8A-CJB-626-010		CONN ASSY, 2P CD DOOR	H	87-571-032-410		VIT+2-3
26	88-907-211-110		FF-CABLE, 7P 1.25 210MM				
27	8A-CJB-622-010		FF-CABLE, 16P 1.0 150MM				
28	8A-CJB-623-010		CONN ASSY, 6P CD MOTOR				
30	88-CH6-220-010		CUSHION, CD A				
31	M8-ZZK-E90-070		DA11T3C				
32	8Z-CDB-169-010		PANEL, CD SANYO				

Note: No.14 and 29 are not used.

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		



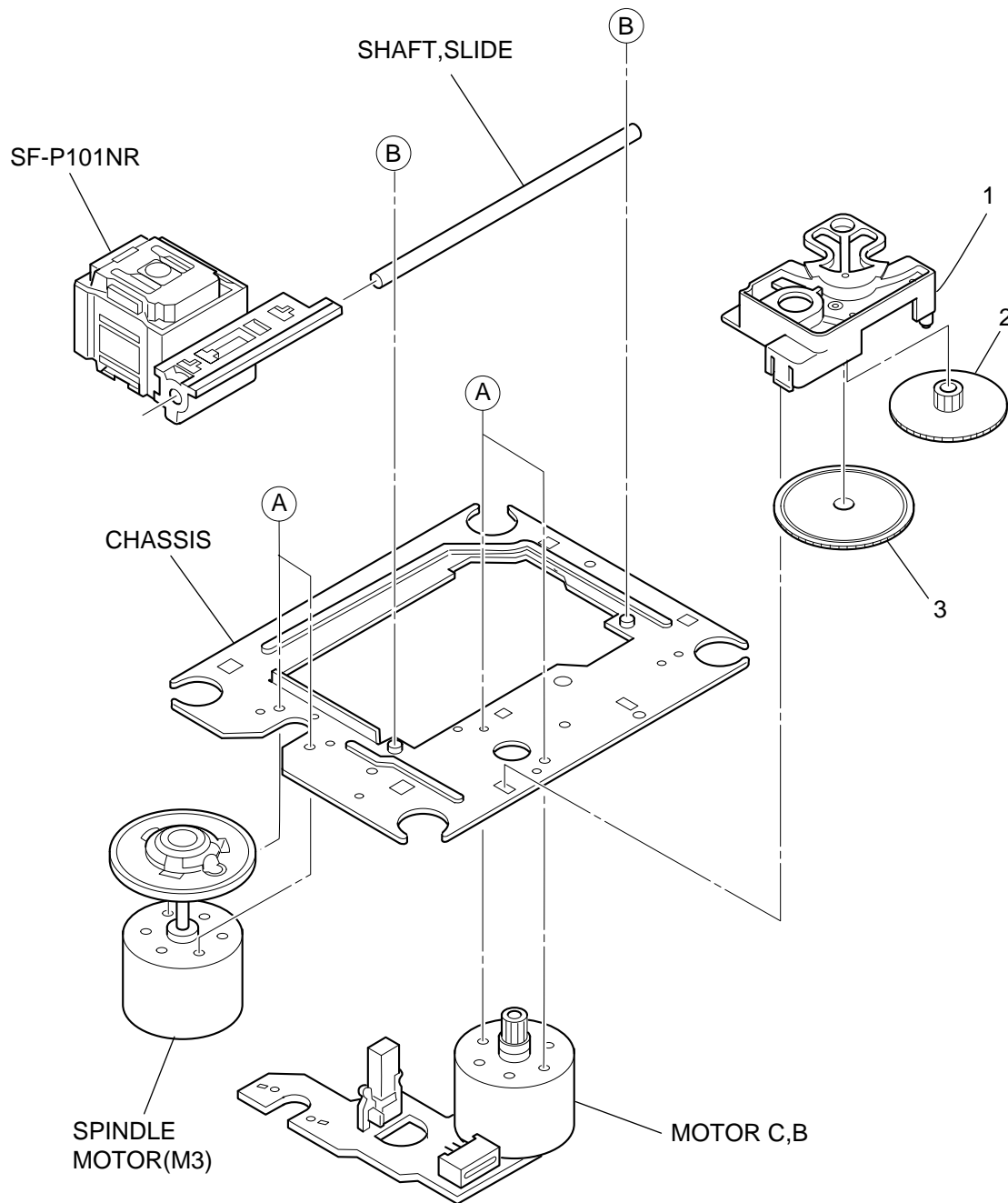


TAPE MECHANISM PARTS LIST 1/1

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	S1-921-030-4A0		HEAD BASE	36	S1-921-140-220V		REC BUTTON LEVER
2	S1-821-030-070		AZIMUTH SPRING	37	S1-921-140-170		P.S.LEVER SPRING
3	S1-921-030-090		PANEL P SPRING	38	S1-921-073-040		RF CLUTCH ASSY
4	S1-921-260-050		GEAR PLATE SPRING	39	S1-921-070-030		RF BELT
5	S1-921-265-020		GEAR PLATE ASSY	40	S1-921-260-020		CAM GEAR
6	S6-201-011-110		HEAD,RP7442ES-0951	41	S1-921-140-160		E ACTUATOR SPRING
7	S1-921-015-010		CHASSIS ASSY	42	S1-921-093-210		FLYWHEEL ASSY
8	S1-921-030-110		HEAD PANEL	43	S1-921-090-380		MAIN BELT
9	S1-921-143-160		BASE ASSY	44	S1-921-120-590		MOTOR PULLEY
10	S1-921-141-8A0		M CONTROL SPRING	45	S6-002-030-220		MOTOR EG530AD-2B
11	S1-921-260-4A0		SENSING LEVER	46	S6-209-100-100		E HEAD PH-K380-MS1
12	S1-921-043-100		PINCH ROLLER ARM ASSY	47	S1-921-030-050		MG ARM
13	S1-921-130-020		EJECT SLIDE LEVER	48	S1-921-140-210		REC BUTTON LEVER SPRING
14	S1-921-141-3A0		P CONTROL SPRING	49	S1-821-100-690		RECORD SAFETY LEVER
15	S1-921-140-550		PAUSE LEVER(E)	50	S1-821-128-9A0		MOTOR BRACKET
16	S1-921-140-120		PAUSE LEVER SPRING	51	S1-821-010-500		PLAY BUTTON LEVER SPRING
17	S1-921-140-110		PAUSE STOPPER	A	S9-P04-200-310		C TAPPING SCREW 2-3
18	S1-921-140-150		BUTTON LEVER SPRING(B)	B	S1-921-120-020		MOTOR COLLER SCREW
19	S1-821-011-590		E KICK LEVER	C	S9-B10-200-510		P TAPPING BIND SCREW M2-5
20	S1-921-141-070		BUTTON LEVER SPRING(A)	D	S9-C07-204-510		SCREW,TAPPING(CAMERA)M2-4.5
21	S6-401-011-490		LEAF SW MSW-1541T	E	S9-P01-200-610		SCREW,M2-6
22	S1-921-140-090		SWITCH ACTUATOR	F	S9-B01-200-310		(+)BIND SCREW M2-3
23	S1-921-140-080		PUSH BUTTON ACTUATOR	G	S9-F08-200-710		AZIMUTH SCREW M2-7
24	S1-921-140-230		PLAY BUTTON LEVER	H	S1-921-120-030		MB SCREW
25	S6-401-011-610		LEAF SW MSW-17820MVEI	I	S9-W02-300-100		P WASHER CUT 1.2-3.8-0.3
26	S1-921-140-240		REW BUTTON LEVER	J	S9-W02-500-100		P WASHER CUT 1.45-3.8-0.5
27	S1-921-140-250		FF BUTTON LEVER	K	S9-W01-400-100		P WASHER 2-3.5-0.4
28	S1-921-140-260		STOP BUTTON LEVER	L	S9-W01-130-200		P WASHER 2.1-4-0.13
29	S1-921-140-610		PAUSE BUTTON LEVER				
30	S1-821-100-700		FF GEAR				
31	S1-921-050-060		SENSOR				
32	S1-921-053-100		TAKE UP REEL ASSY				
33	S1-829-100-010		PACK SPRING				
34	S1-921-050-150		S REEL HUB				
35	S1-921-050-220		BACK TENSION SPRING				

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.	KANRI NO.	DESCRIPTION
1	S2-121-A28-400		COVER GEAR
2	S2-511-A21-000		GEAR MIDDLE
3	S2-511-A21-100		GEAR, DRIVE
A	S1-PN2-03R-OSE		SCR PAN PCS 2-3
B	87-261-073-410		SCR S-TPG FLT 2.6-6
ALL	M8-ZZK-E90-070		DA11T3C

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	8A-CJB-632-010		SPKR,100MM 4OHM<EXCEPT HCL>
2	8A-CJB-021-010		CABI,SPKR FR<EXCEPT HCL>
3	8A-CJB-956-010		PANEL ASSY,SPKR (D)<HRD,KD,EZD>
3	8A-CJB-958-010		PANEL ASSY,SPKR (DS)<HRJS,KS,EZS>
3	8A-CJB-955-010		PANEL ASSY,SPKR (L) <HRL,KL,EZL,HSL>
4	8A-CJB-220-010		HLDL,SPKR REAR<EXCEPT HCL>
5	8A-CJB-204-010		HLDL,SPKR WIRE<EXCEPT HCL>
6	8A-CJB-627-010		CORD,SPKR<EXCEPT HCL>
7	8A-CJB-027-010		CUSH,FOOT<EXCEPT HCL>

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。
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REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CLC-906-010		IB,EZ(9L)B<EZS,EZD,EZL>
1	8A-CLC-911-010		IB,H(EC-K)B<HCL>
1	8A-CLC-901-010		IB,H(ECA)B<HRJS,HRD,HRL>
1	8A-CLC-905-010		IB,K(E)B<KS,KD,KL>
2	87-A90-030-010		ANT,LOOP AM-NC C
3	87-043-115-010		ANT,FEEDER FM<HRJS,HRD,HRL,HCL>
3	87-A90-118-010		ANT,WIRE FM (Z) <EXCEPT HRJS,HRD,HRL,HCL>
⚠	4	87-099-726-010	PLUG,ADPTR CONV(K) <KS,KD,KL,EZD,EZL,HSL>
⚠	4	87-A91-017-010	PLUG,CONVERSION JT-0476 <HRJS,HRD,HRL>
5	8A-CLB-961-010		RC UNIT,RC-AAT11

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