

SERVICE MANUAL

COMPACT DISC STEREO
SYSTEM

BASIC TAPE MECHANISM : 2ZM-1YR8N
BASIC CD MECHANISM : DA11T3C

TABLE OF CONTENTS

SPECIFICATIONS	3, 4
ACCESSORIES/PACKAGE LIST	5
PROTECTION OF EYES FROM LASER BEAM DURING SERVICING/ Precaution to replace Optical block	6
ELECTRICAL MAIN PARTS LIST	7-9
TRANSISTOR ILLUSTRATION	10
WIRING-1 (MAIN: HR)	11, 12
WIRING-2 (MAIN: HS, K, EZ)	13, 14
SCHEMATIC DIAGRAM-1 (MAIN 1/2)	15, 16
IC BLOCK DIAGRAM	17, 18
SCHEMATIC DIAGRAM-2 (MAIN: HR 2/2)	19, 20
SCHEMATIC DIAGRAM-3 (MAIN: HS, K, EZ 2/2)	21, 22
WIRING-3 (CD/FRONT: INSERTED PARTS)	23, 24
WIRING-4 (CD/FRONT: CHIP PARTS)	25, 26
SCHEMATIC DIAGRAM-4 (FRONT)	27, 28
SCHEMATIC DIAGRAM-5 (CD)	29, 30
VOLTAGE CHART	31-35
FL GRID ASSIGNMENT/ANODE CONNECTION	36
ELECTRICAL ADJUSTMENT	37-40
IC DESCRIPTION	41-46
MECHANICAL EXPLODED VIEW 1/1	47, 48
MECHANICAL PARTS LIST 1/1	49
TAPE MECHANISM PARTS LIST 1/1	50
TAPE MECHANISM EXPLODED VIEW 1/1	51, 52
CD MECHANISM EXPLODED VIEW 1/1	53
CD MECHANISM PARTS LIST 1/1	53
SPRING APPLICATION POSITION	54
SPEAKER PARTS LIST 1/1	55

SPECIFICATIONS

HR MODEL

MAIN UNIT

FM tuner section

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

AM tuner section

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

Amplifier section

Power output 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 AUX: 500 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 – 15000 Hz
Recording system AC bias
Heads Recording/playback \times 1
Erase head \times 1

HS MODEL

MAIN UNIT

FM tuner section

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

MW tuner section

Tuning range 531 kHz to 1602 kHz (9 kHz step)
530 kHz to 1710 kHz (10 kHz step)
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)
Input AUX: 500 mV
Outputs SPEAKERS: accept speakers of 4 ohms or more
PHONES (stereo minijack): accepts headphones of 32 ohms or more

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
Impedance 4 ohms
Dimensions (W \times H \times D) 140 \times 231.5 \times 198 mm
Weight 1.1 kg

GENERAL

Power requirements 120/220-240V AC, switchable
50/60 Hz
Power consumption 32 W
Dimensions of main unit (W \times H \times D) 160 \times 231.5 \times 197 mm
Weight of main unit 2.6 kg

- Design and specifications are subject to change without notice.

Cassette deck section

Track format 4 tracks, 2 channels stereo
Frequency response Normal tape: 50 Hz – 15000 Hz
Recording system AC bias
Heads Recording/playback \times 1
Erase head \times 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
Impedance 4 ohms
Dimensions (W \times H \times D) 140 \times 231.5 \times 198 mm
Weight 1.1 kg

GENERAL

Power requirements 220V AC, 60 Hz
Power consumption 31 W
Dimensions of main unit (W \times H \times D) 160 \times 231.5 \times 197 mm
Weight of main unit 2.6 kg

- Design and specifications are subject to change without notice.

K MODEL

MAIN UNIT

FM tuner section

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

MW tuner section

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
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Antenna	Loop antenna
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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)
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Input	AUX: 500 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 – 15000 Hz
Recording system	AC bias
Heads	Recording/playback \times 1 Erase head \times 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
Impedance	4 ohms
Dimensions (W \times H \times D)	140 \times 231.5 \times 198 mm
Weight	1.1 kg

GENERAL

Power requirements	230V AC, 50 Hz
Power consumption	31 W
Dimensions of main unit (W \times H \times D)	160 \times 231.5 \times 197 mm
Weight of main unit	2.6 kg

- Design and specifications are subject to change without notice.

EZ MODEL

MAIN UNIT

FM tuner section

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

MW tuner section

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
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Antenna	Loop antenna
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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)
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Input	DIN MUSIC POWER 10 W + 10 W AUX: 500 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 – 15000 Hz
Recording system	AC bias
Heads	Recording/playback \times 1 Erase head \times 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
Impedance	4 ohms
Dimensions (W \times H \times D)	140 \times 231.5 \times 198 mm
Weight	1.1 kg

GENERAL

Power requirements	230V AC, 50 Hz
Power consumption	31 W
Dimensions of main unit (W \times H \times D)	160 \times 231.5 \times 197 mm
Weight of main unit	2.6 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	8A-CLA-906-010		IB,EZ(9L)B<EZS>
1	8A-CLA-901-010		IB,H(ECA)B<HRJ>
1	8A-CLA-905-010		IB,K(E)B<KS>
2	8A-CLB-961-010		RC UNIT,RC-AAT11
3	87-A90-030-010		ANT,LOOP AM-NC C
4	87-043-115-010		ANT,FEEDER FM<HRJ>
5	87-A90-118-010		ANT,WIRE FM (Z)<EZS,HSS,KS>
6	87-A91-017-010		PLUG,CONVERSION JT-0476<HRJ>
7	87-099-726-010		PLUG,ADPTR CONV(K)<KS>

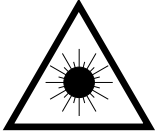


PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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 mainituilla 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 laserstråling, 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

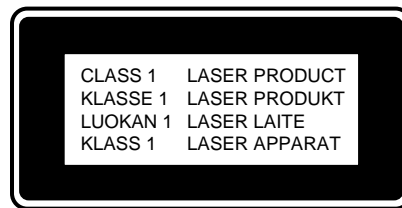
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.

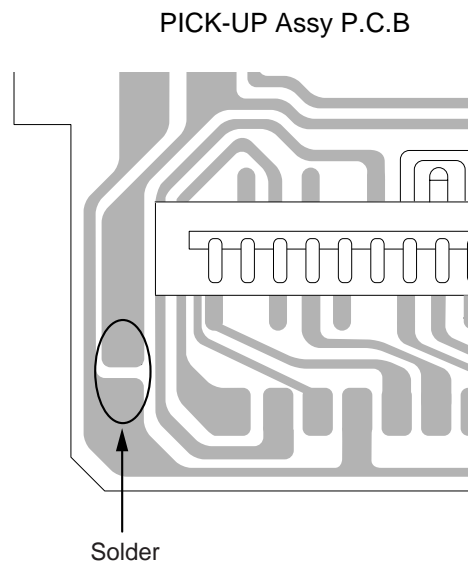
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



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".

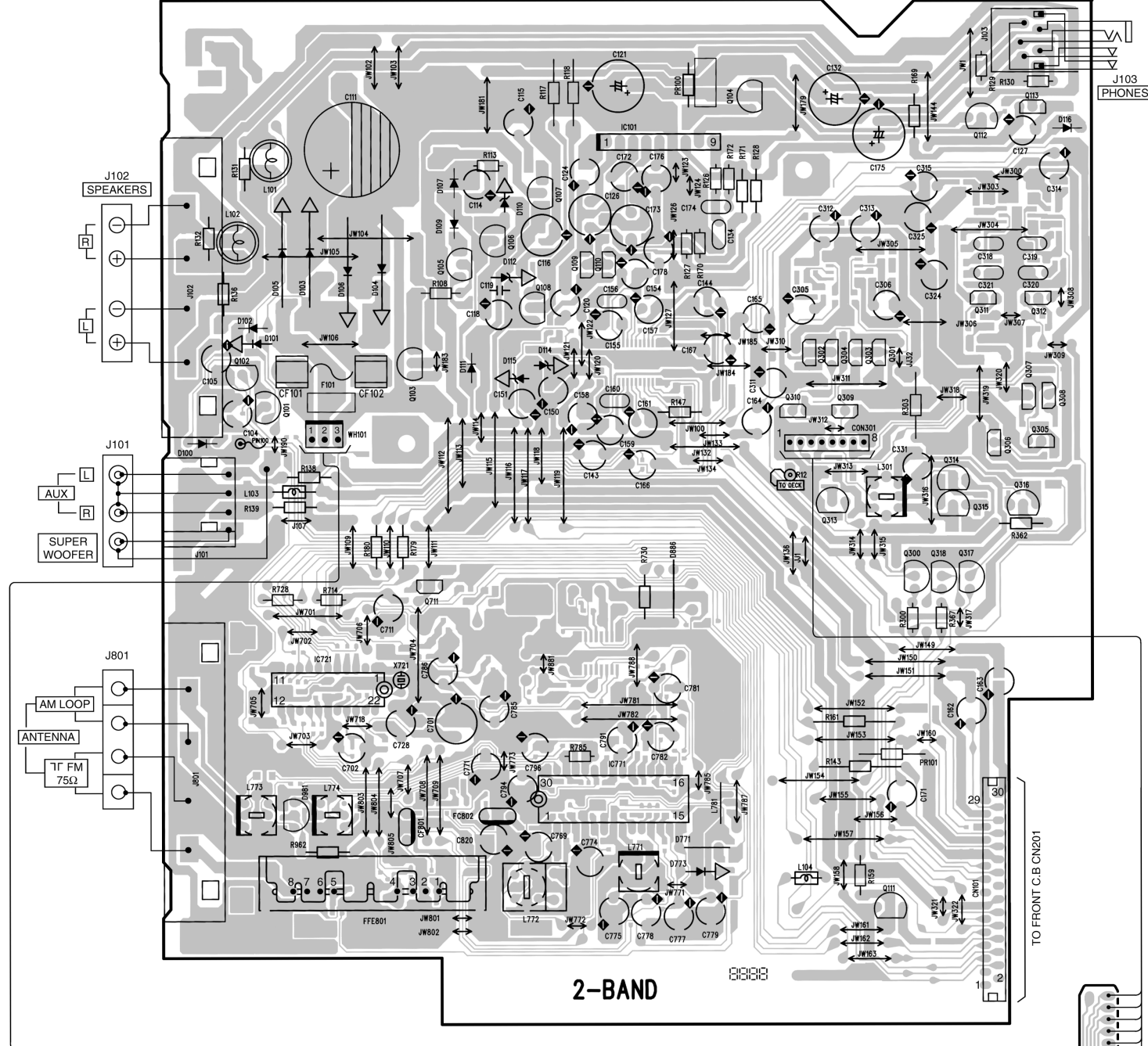
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC				C111	87-016-658-090		CAP,E 4700-35 SMG
	87-020-454-010	IC, DN6851		C112	87-012-140-080		CAP 470P
	87-A20-734-010	IC, TDA2007A		C113	87-010-197-080		CAP, CHIP 0.01 DM
	87-A21-443-040	C-IC, M62495AFP		C114	87-010-408-080		CAP, ELECT 47-50V
	8A-CLA-620-010	IC, LC8672408A-5P33		C115	87-010-112-080		CAP, ELECT 100-16V
	87-A21-245-010	IC, RPM6938-V4		C116	87-010-101-080		CAP, ELECT 220-16
	87-A21-145-040	C-IC, BA4560F-E2		C118	87-010-263-080		CAP, ELECT 100-10V
	87-A20-446-010	C-IC, LA9241ML		C119	87-010-190-080		S CHIP F 0.01
	87-A20-459-010	C-IC, LC78622ED		C120	87-010-401-080		CAP, ELECT 1-50V
	87-A21-093-010	IC, LA6541D		C121	87-010-396-080		CAP,E 470-35 SME
	87-070-127-110	IC, LC72131 D		C122	87-010-213-080		C-CAP,S 0.015-50 B
	87-A20-913-010	IC, LA1837NL		C123	87-010-196-080		CHIP CAPACITOR, 0.1-25
	87-A20-440-040	C-IC, BU1920FS<EVS, HSS, KS>		C124	87-010-402-080		CAP, ELECT 2.2-50V
				C125	87-010-402-080		CAP, ELECT 2.2-50V
				C126	87-010-408-080		CAP, ELECT 47-50V
TRANSISTOR				C127	87-010-248-080		CAP, ELECT 220-10V
	87-026-610-080	TR, KTC3198GR		C128	87-010-393-080		CAP, ELECT 100-35V
	89-213-702-010	TR, 2SB1370 (1.8W)		C129	87-010-248-080		CAP, ELECT 220-10V
	89-420-052-080	TR, 2SD2005 (1.2W)		C130	87-010-393-080		CAP, ELECT 100-35V
	87-A30-185-010	TR, 2SD1381FQR		C131	87-010-393-080		CAP, ELECT 100-35V
	87-026-313-080	TR, DTC343TS		C132	87-010-237-080		CAP, ELECT 1000-16V
	87-026-609-080	TR, KTA1266GR		C136	87-010-197-080		CAP, CHIP 0.01 DM
	87-026-218-080	TR, DTC144ES (0.2W)		C137	87-010-197-080		CAP, CHIP 0.01 DM
	87-026-237-080	CHIP-TR, DTC124XK		C138	87-010-197-080		CAP, CHIP 0.01 DM
	87-026-223-080	TR, DTC143TK		C139	87-010-197-080		CAP, CHIP 0.01 DM
	89-320-011-080	TR, 2SC2001 (15W)		C143	87-010-401-080		CAP, ELECT 1-50V
	89-112-965-080	TR, 2SA1296 (0.75W)		C144	87-010-401-080		CAP, ELECT 1-50V
	89-109-521-080	TR, 2SA952 (0.6W)		C147	87-010-190-080		S CHIP F 0.01
	87-A30-091-080	FET, 2SJ460		C150	87-010-263-080		CAP, ELECT 100-10V
	87-A30-090-080	FET, 2SK2541		C151	87-010-263-080		CAP, ELECT 100-10V
	87-A30-151-080	TR, 2SA1993F		C152	87-010-182-080		C-CAP,S 2200P-50 B
	89-333-317-080	TR, 2SC3331 (0.5W)		C153	87-010-166-080		C-CAP,S 100P-50 SL
	87-026-291-080	TR, DTC124XS		C154	87-010-545-080		CAP, ELECT 0.22-50V
	87-A30-227-080	TR, 2SB1010Q		C155	87-010-545-080		CAP, ELECT 0.22-50V
	87-026-463-080	TR, 2SA933S (0.3W)		C157	87-010-404-080		CAP, ELECT 4.7-50V
	87-026-210-080	CHIP-TR, DTC144EK		C158	87-010-545-080		CAP, ELECT 0.22-50V
	87-026-239-080	TR, DTC114TK (0.2W)		C159	87-010-545-080		CAP, ELECT 0.22-50V
	87-A30-196-080	TR, 2SC4115SR<EVS, HSS, KS>		C161	87-010-404-080		CAP, ELECT 4.7-50V
	89-327-143-080	TR, 2SC2714 (0.1W)		C162	87-010-405-080		CAP, ELECT 10-50V
	87-A30-072-080	C-TR, RT1P 144C		C163	87-010-405-080		CAP, ELECT 10-50V
	87-A30-076-080	C-TR, 2SC3052F<EVS, HSS, KS>		C164	87-010-405-080		CAP, ELECT 10-50V
	89-505-434-540	C-FET, 2SK543(4/5)<EVS, HSS, KS>		C165	87-010-405-080		CAP, ELECT 10-50V
	87-A30-257-080	C-TR, 2SD1306E<EVS, HSS, KS>		C166	87-010-404-080		CAP, ELECT 4.7-50V
	87-A30-074-080	C-TR, RT1P 141C<EVS, HSS, KS>		C167	87-010-404-080		CAP, ELECT 4.7-50V
				C169	87-012-368-080		C-CAP,S 0.1-50 F<EVS, HSS, KS>
DIODE				C170	87-012-368-080		C-CAP,S 0.1-50 F<EVS, HSS, KS>
	87-020-465-080	DIODE, 1SS133 (110MA)		C171	87-010-404-080		CAP, ELECT 4.7-50V
	87-A40-393-090	DIODE, 1N5402GW (F20)		C172	87-010-408-080		CAP, ELECT 47-50V
	87-070-334-080	ZENER, MTZJ10B		C173	87-010-405-080		CAP, ELECT 10-50V
	87-017-932-080	ZENER, MTJ6.2B		C175	87-010-237-080		CAP, ELECT 1000-16V
	87-A40-347-080	ZENER, MTZJ2.2B		C176	87-012-368-080		C-CAP,S 0.1-50 F<EVS, HSS, KS>
	87-070-136-080	ZENER, MTZJ5.1B		C300	87-010-986-080		C-CAP,S 820P-50 J CH
	87-020-027-080	CHIP-DIODE 1SS184		C301	87-010-198-080		CAP, CHIP 0.022
	87-027-825-080	ZENER, HZ9A3L		C302	87-010-986-080		C-CAP,S 820P-50 J CH
	87-A40-234-080	ZENER, MTZJ5.6A<EVS, HSS, KS>		C303	87-010-180-080		C-CER 1500P
	87-A40-270-080	C-DIODE, MC2838<EVS, HSS, KS>		C304	87-010-180-080		C-CER 1500P
				C305	87-010-263-080		CAP, ELECT 100-10V
				C306	87-010-263-080		CAP, ELECT 100-10V
				C307	87-010-956-080		CHIP-CAP,S 0.068-25B
				C308	87-010-956-080		CHIP-CAP,S 0.068-25B
MAIN C.B				C309	87-010-187-080		CAP CHIP S5600P
C101	87-010-190-080	S CHIP F 0.01		C310	87-010-187-080		CAP CHIP S5600P
C102	87-010-190-080	S CHIP F 0.01		C311	87-010-374-080		CAP, ELECT 47-10V
C103	87-010-190-080	S CHIP F 0.01		C312	87-010-546-080		CAP, ELECT 0.33-50V
C104	87-010-404-080	CAP, ELECT 4.7-50V		C313	87-010-546-080		CAP, ELECT 0.33-50V
C105	87-010-403-080	CAP, ELECT 3.3-50V		C314	87-010-401-080		CAP, ELECT 1-50V
C106	87-010-192-080	C-CAP,S 0.022-50 F		C315	87-010-401-080		CAP, ELECT 1-50V
C107	87-010-192-080	C-CAP,S 0.022-50 F		C316	87-010-182-080		C-CAP,S 2200P-50 B
C108	87-010-192-080	C-CAP,S 0.022-50 F		C317	87-010-182-080		C-CAP,S 2200P-50 B
C109	87-010-192-080	C-CAP,S 0.022-50 F		C318	87-010-188-080		CAP, CHIP 6800P
C110	87-010-190-080	S CHIP F 0.01					

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C319	87-010-188-080		CAP,CHIP 6800P	C783	87-012-286-080		CAP, U 0.01-25
C320	87-010-184-080		CHIP CAPACITOR 3300P(K)	C784	87-012-286-080		CAP, U 0.01-25
C321	87-010-184-080		CHIP CAPACITOR 3300P(K)	C785	87-010-401-080		CAP, ELECT 1-50V<HRJ>
C322	87-010-321-080		CHIP CAPACITOR,82P(J)	C785	87-010-405-080		CAP, ELECT 10-50V<EVS,HSS,KS>
C323	87-010-321-080		CHIP CAPACITOR,82P(J)	C786	87-010-401-080		CAP, ELECT 1-50V<HRJ>
C324	87-010-401-080		CAP, ELECT 1-50V	C786	87-010-405-080		CAP, ELECT 10-50V<EVS,HSS,KS>
C325	87-010-374-080		CAP, ELECT 47-10V	C787	87-012-287-080		C-CAP, U 0.015-25 F<EVS,HSS,KS>
C326	87-010-198-080		CAP, CHIP 0.022	C788	87-012-287-080		C-CAP, U 0.015-25 F<EVS,HSS,KS>
C327	87-010-183-080		C-CAP,S 2700P-50 B	C789	87-012-275-080		C-CAP, U 1200P-50 B
C328	87-010-183-080		C-CAP,S 2700P-50 B	C790	87-012-275-080		C-CAP, U 1200P-50 B
C329	87-010-183-080		C-CAP,S 2700P-50 B	C791	87-010-405-080		CAP, ELECT 10-50V
C330	88-266-810-810		CAP, CER 0.01<EVS,HSS,KS>	C793	87-012-275-080		C-CAP, U 1200P-50 B<EVS,HSS,KS>
C331	87-010-382-080		CAP, ELECT 22-25V	C793	87-012-273-080		C-CAP, U 820P-50 B<HRJ>
C332	87-010-187-080		CAP CHIP S5600P	C794	87-010-406-080		CAP, ELECT 22-50
C333	87-010-178-080		CHIP CAP 1000P	C795	87-010-596-080		CAP, S 0.047-16
C334	87-010-175-080		CAP 560P	C796	87-010-403-080		CAP, ELECT 3.3-50V
C335	87-012-158-080		C-CAP,S 390P-50 CH	C797	87-012-276-080		CAP, CHIP SS 1500 PBK
C336	87-012-158-080		C-CAP,S 390P-50 CH	C798	87-012-276-080		CAP, CHIP SS 1500 PBK
C337	87-010-198-080		CAP, CHIP 0.022	C799	87-010-829-080		CAP, U 0.047-16
C350	87-010-178-080		CHIP CAP 1000P	C803	87-018-047-080		CAP, CER 0.01-16V<EVS,HSS,KS>
C351	87-010-178-080		CHIP CAP 1000P	C812	87-012-286-080		CAP, U 0.01-25
C353	87-010-178-080		CHIP CAP 1000P	C814	87-012-286-080		CAP, U 0.01-25<EVS,HSS,KS>
C701	87-010-381-080		CAP, ELECT 330-16V	C820	87-010-260-080		CAP, ELECT 47-25V
C702	87-010-404-080		CAP, ELECT 4.7-50V	C821	87-012-286-080		CAP, U 0.01-25
C703	87-012-286-080		CAP, U 0.01-25	C822	87-012-286-080		CAP, U 0.01-25
C704	87-012-286-080		CAP, U 0.01-25	C823	87-012-286-080		CAP, U 0.01-25
C709	87-012-195-080		C-CAP,U 100P-50CH	C824	87-012-172-080		CAPACITOR CHIP U 10P CH<EVS,HSS,KS>
C711	87-010-263-080		CAP, ELECT 100-10V	C828	87-010-196-080		CHIP CAPACITOR,0.1-25
C712	87-010-831-080		C-CAP,U,0.1-16F	C829	87-010-196-080		CHIP CAPACITOR,0.1-25
C713	87-012-286-080		CAP, U 0.01-25<EVS,HSS,KS>	C859	87-012-286-080		CAP, U 0.01-25<EVS,HSS,KS>
C714	87-012-286-080		CAP, U 0.01-25	C861	87-012-199-080		CAP 220P<EVS,HSS,KS>
C715	87-012-195-080		C-CAP,U 100P-50CH<EVS,HSS,KS>	C862	87-012-199-080		CAP 220P<EVS,HSS,KS>
C717	87-012-286-080		CAP, U 0.01-25	C863	87-012-270-080		CAP, U 470P-50<EVS,HSS,KS>
C719	87-012-286-080		CAP, U 0.01-25	C864	87-010-405-080		CAP, ELECT 10-50V<EVS,HSS,KS>
C720	87-012-195-080		C-CAP,U 100P-50CH	C865	87-010-196-080		CHIP CAPACITOR,0.1-25<EVS,HSS,KS>
C721	87-012-176-080		CAP 15P	C866	87-010-405-080		CAP, ELECT 10-50V<EVS,HSS,KS>
C722	87-012-176-080		CAP 15P	C867	87-012-286-080		CAP, U 0.01-25<EVS,HSS,KS>
C723	87-012-274-080		CHIP CAP,U 1000P-50B	C868	87-012-184-080		C-CAP, U 33P-50 CH<EVS,HSS,KS>
C725	87-018-131-080		CAP, CER 1000P-50V<EVS,HSS,KS>	C869	87-012-180-080		C-CAP, U 22P-50 CH<EVS,HSS,KS>
C727	87-010-196-080		CHIP CAPACITOR,0.1-25	C909	87-012-286-080		CAP, U 0.01-25<EVS,HSS,KS>
C728	87-010-248-080		CAP, ELECT 220-10V	C910	87-012-286-080		CAP, U 0.01-25<EVS,HSS,KS>
C729	87-012-274-080		CHIP CAP,U 1000P-50B	C940	87-012-286-080		CAP, U 0.01-25<EVS,HSS,KS>
C731	87-012-286-080		CAP, U 0.01-25	C942	87-012-172-080		CAPACITOR CHIP U 10P CH<EVS,HSS,KS>
C752	87-012-284-080		CAP, U 6800P-50<EVS,HSS,KS>	C947	87-012-286-080		CAP, U 0.01-25<EVS,HSS,KS>
C753	87-012-195-080		C-CAP,U 100P-50CH<EVS,HSS,KS>	C949	87-A10-039-080		C-CAP,U 470P-50 J CH<EVS,HSS,KS>
C755	87-012-286-080		CAP, U 0.01-25<EVS,HSS,KS>	C952	87-012-286-080		CAP, U 0.01-25<EVS,HSS,KS>
C756	87-012-286-080		CAP, U 0.01-25	C958	87-010-197-080		CAP, CHIP 0.01 DM<EVS,HSS,KS>
C757	87-012-188-080		C-CAP,U 47P-50 CH	C959	87-010-831-080		C-CAP,U,0.1-16F<EVS,HSS,KS>
C758	87-012-167-080		C-CAP,U 5P-50 CH	C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C761	87-010-196-080		CHIP CAPACITOR,0.1-25<EVS,HSS,KS>	C961	87-012-170-080		C-CAP, U 8P-50 CH<HRJ>
C762	87-012-286-080		CAP, U 0.01-25<EVS,HSS,KS>	C962	87-010-401-080		CAP, ELECT 1-50V<EVS,HSS,KS>
C763	87-010-829-080		CAP, U 0.047-16	C963	87-010-196-080		CHIP CAPACITOR,0.1-25<HRJ>
C764	87-012-337-080		C-CAP,U 56P-50 CH<HRJ>	C965	88-108-000-080		C-JUMPER,U<EVS,HSS,KS>
C765	87-012-286-080		CAP, U 0.01-25	CF801	87-008-423-010		CERAMIC FILTER, SFE10.7<EVS,HSS,KS>
C766	87-010-197-080		CAP, CHIP 0.01 DM<EVS,HSS,KS>	CF801	87-008-261-010		FILTER, SFE10.7MA5-A<HRJ>
C768	87-012-286-080		CAP, U 0.01-25	CF802	82-785-747-010		CF MS2 GHY R<EVS,HSS,KS>
C769	87-010-260-080		CAP, ELECT 47-25V	CF802	87-008-261-010		FILTER, SFE10.7MA5-A<HRJ>
C770	87-010-829-080		CAP, U 0.047-16	CON301	87-099-832-010		CONN,8P S2M-8W
C771	87-010-383-080		CAP, ELECT 33-25V	AF101	87-035-457-010		FUSE,3.15A 250V TW/C
C772	87-010-829-080		CAP, U 0.047-16	FC101	87-033-213-080		CLAMP, FUSE
C773	87-010-196-080		CHIP CAPACITOR,0.1-25	FC102	87-033-213-080		CLAMP, FUSE
C774	87-010-263-080		CAP, ELECT 100-10V	FFE801	A8-6ZA-19C-170		6ZA-1 YFEENC<EVS,HSS,KS>
C775	87-010-404-080		CAP, ELECT 4.7-50V	FFE801	A8-8ZA-193-070		8ZA-1 YFEUNC<HRJ>
C776	87-012-286-080		CAP, U 0.01-25	J101	8A-CLA-624-010		JACK,PIN 3P AUX
C777	87-010-400-080		CAP, ELECT 0.47-50V	J102	87-A60-754-010		TERMINAL,SPK 4P MSP-154V-05
C778	87-010-401-080		CAP, ELECT 1-50V	J103	87-A60-420-010		JACK,3.5 ST (MSC)
C779	87-010-401-080		CAP, ELECT 1-50V	J104	87-099-608-010		JACK, DC HEC3800<EVS,HSS,KS>
C780	87-010-196-080		CHIP CAPACITOR,0.1-25	J801	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02<HRJ>
C781	87-010-405-080		CAP, ELECT 10-50V	J801	87-A60-880-010		TERMINAL,ANT-PAL 2P MSP-313V-0
C782	87-010-405-080		CAP, ELECT 10-50V				<EVS,HSS,KS>

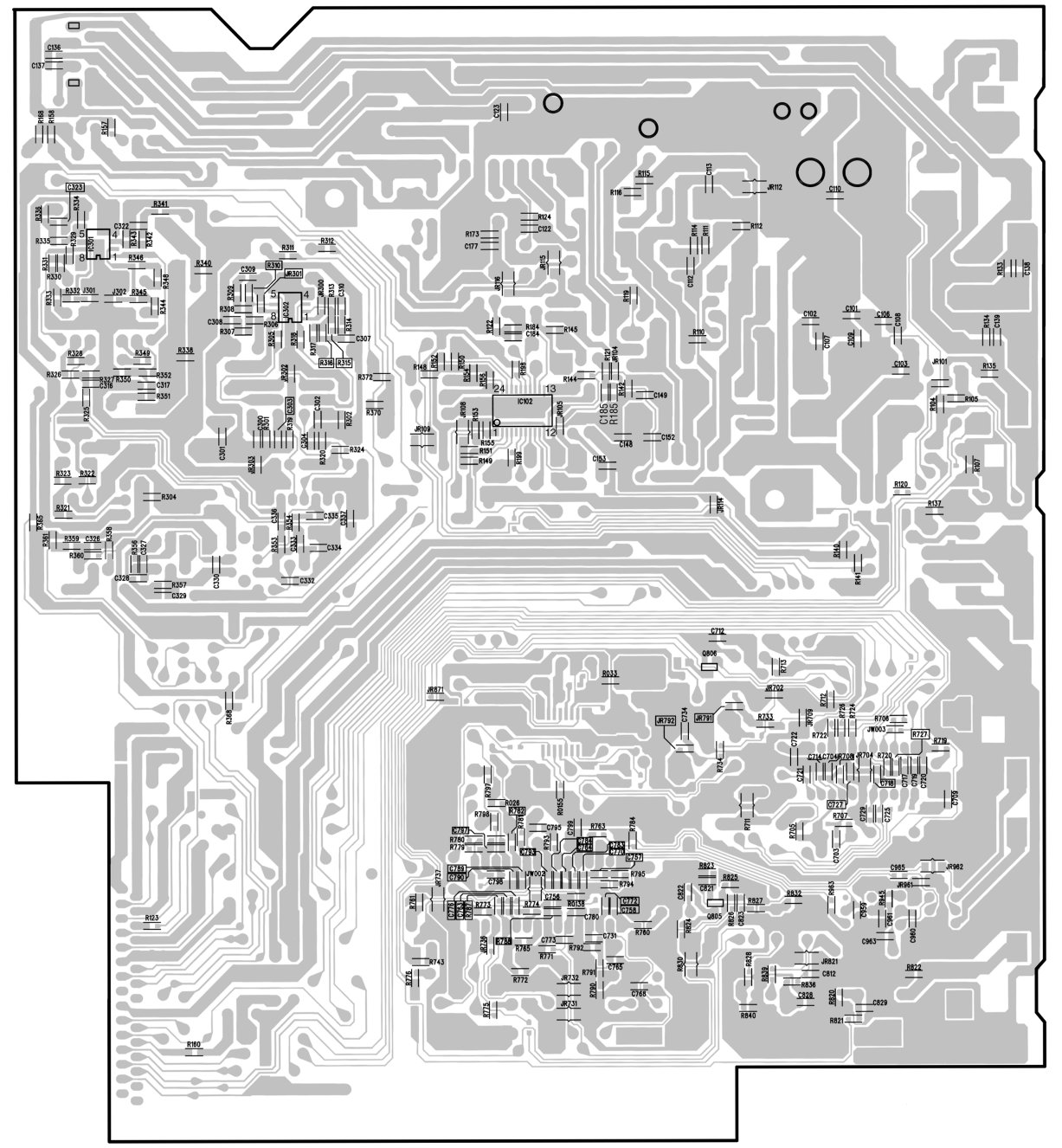
1 2 3 4 5 6 7 8 9 10 11 12 13 14

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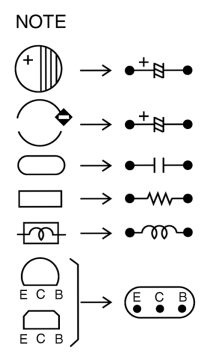
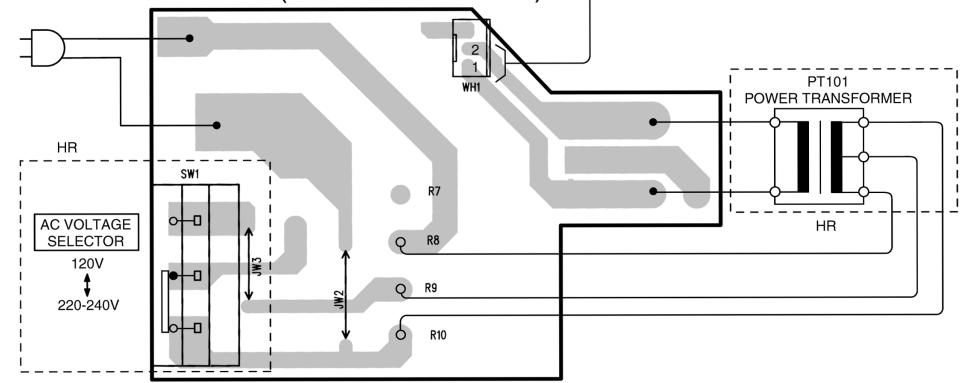
MAIN C.B (INSERTED PARTS)



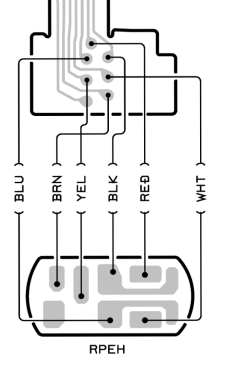
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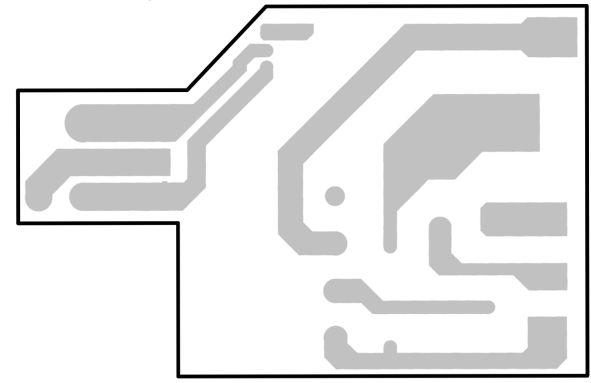
AC C.B (INSERTED PARTS)



RELAY C.B

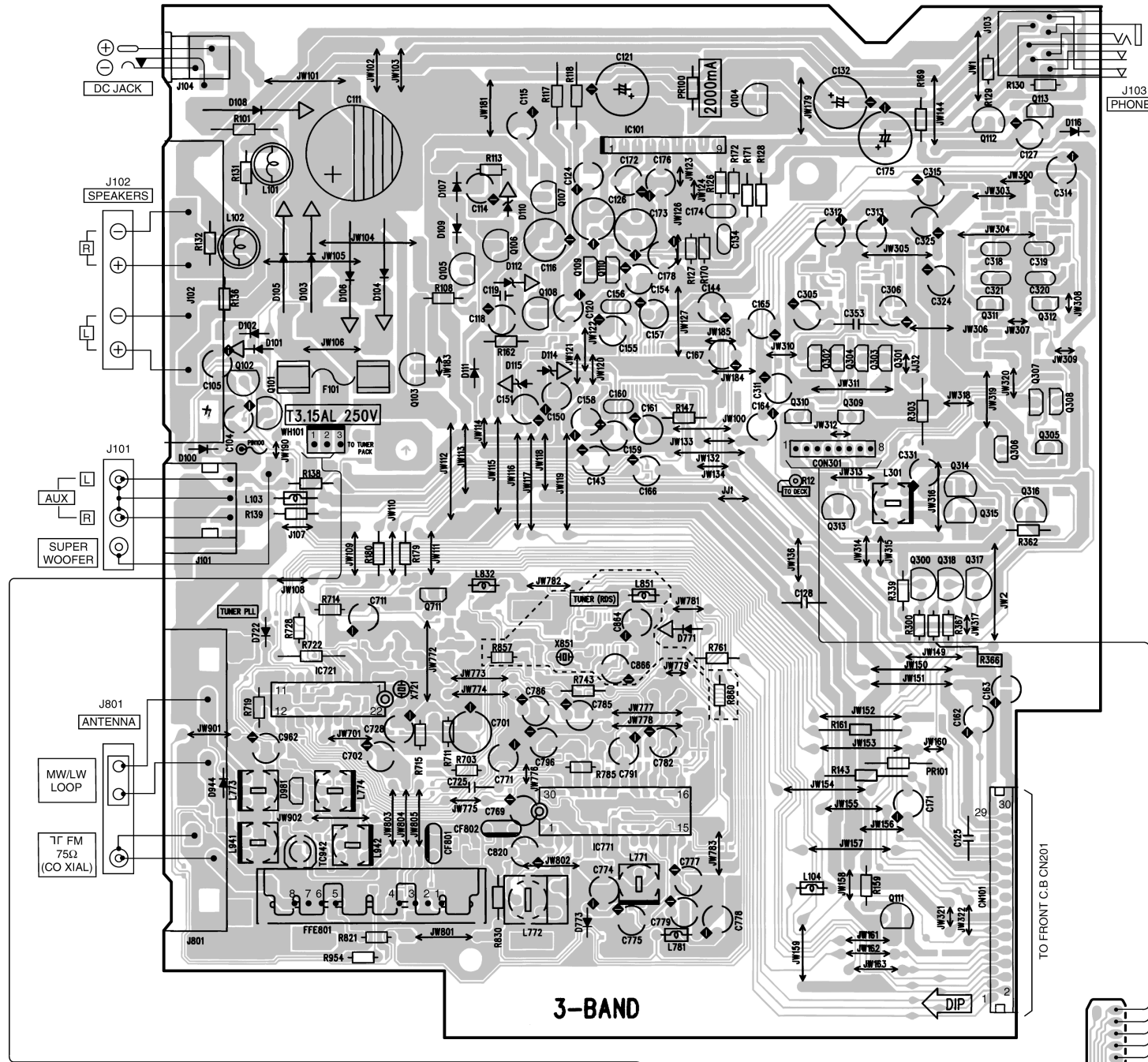


AC C.B (CHIP PARTS)

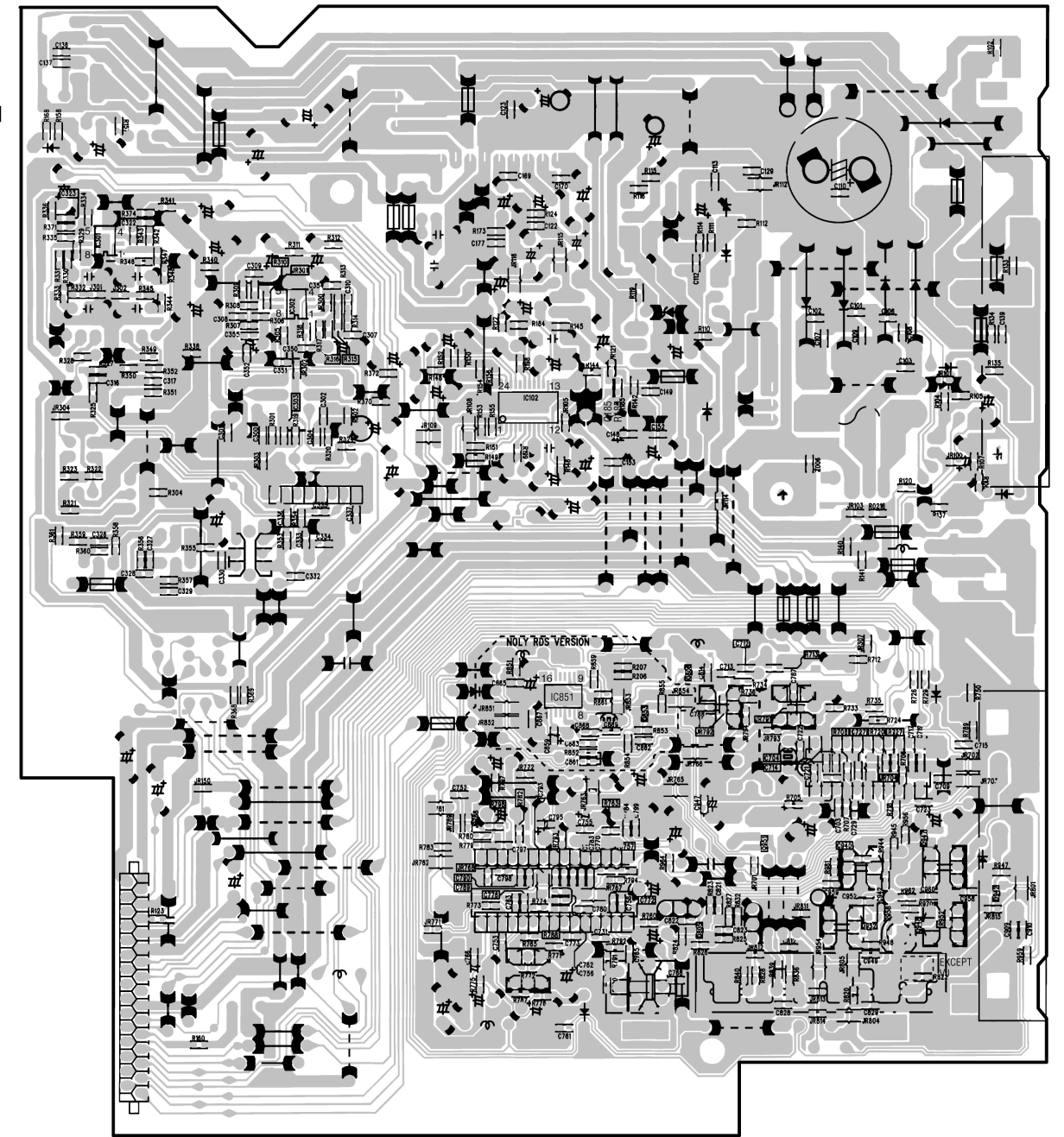


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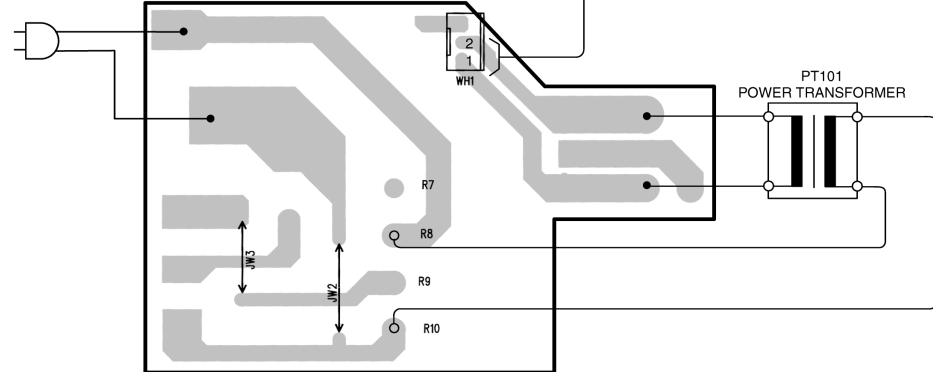
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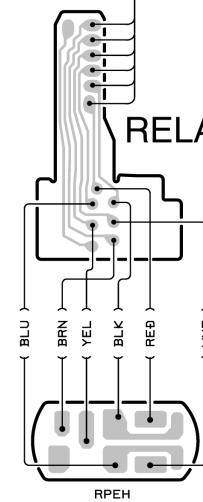
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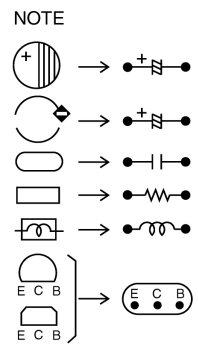
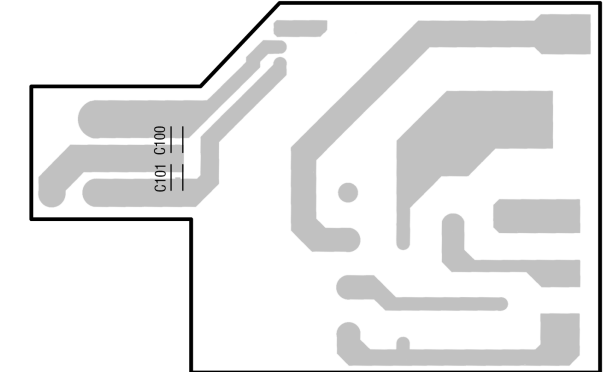
AC C.B (INSERTED PARTS)



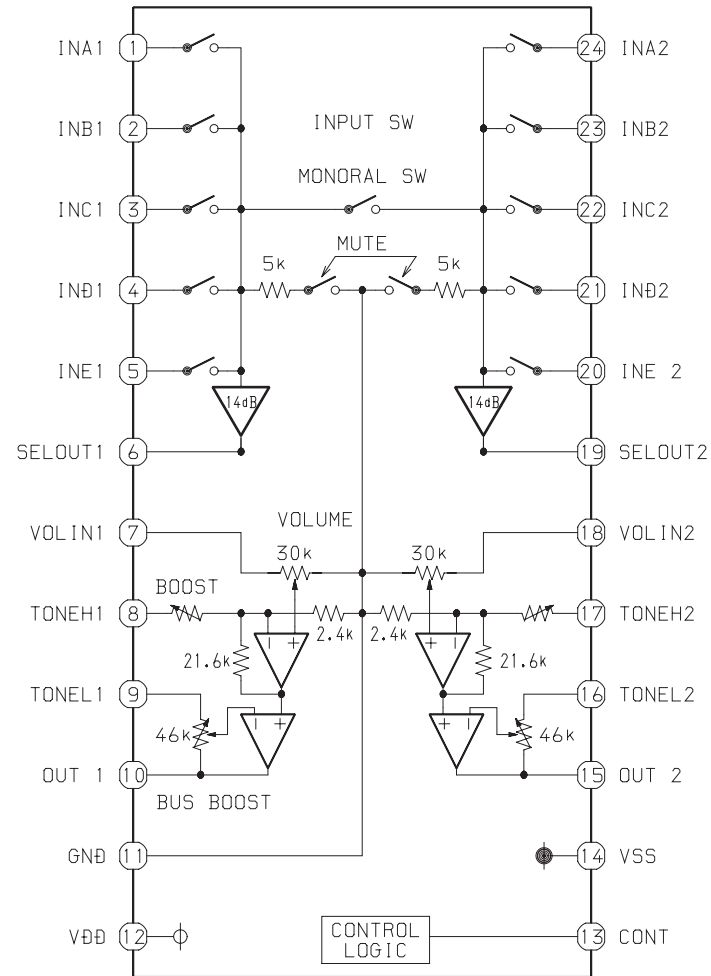
RELAY C.B



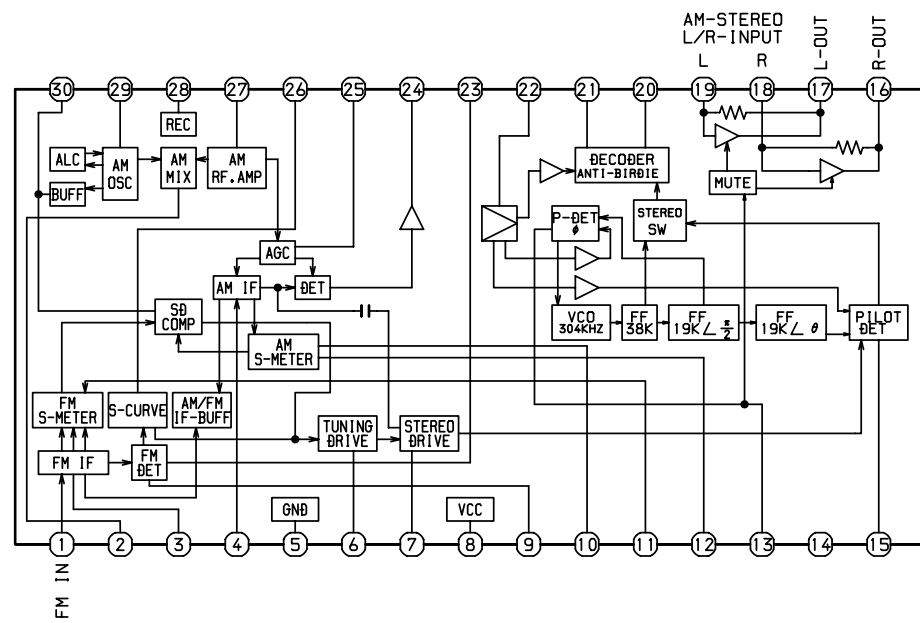
AC C.B (CHIP PARTS)



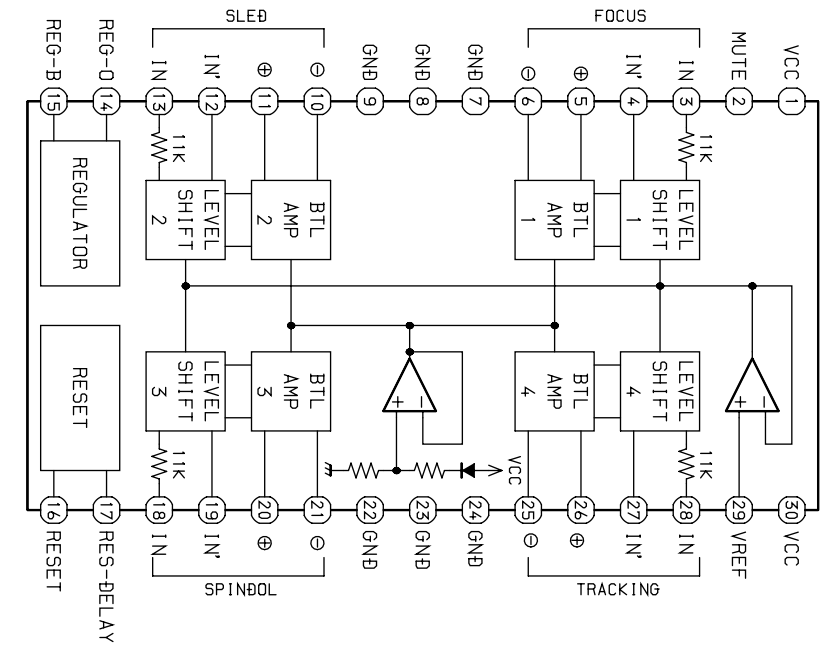
IC BLOCK DIAGRAM
IC, M62495AFP



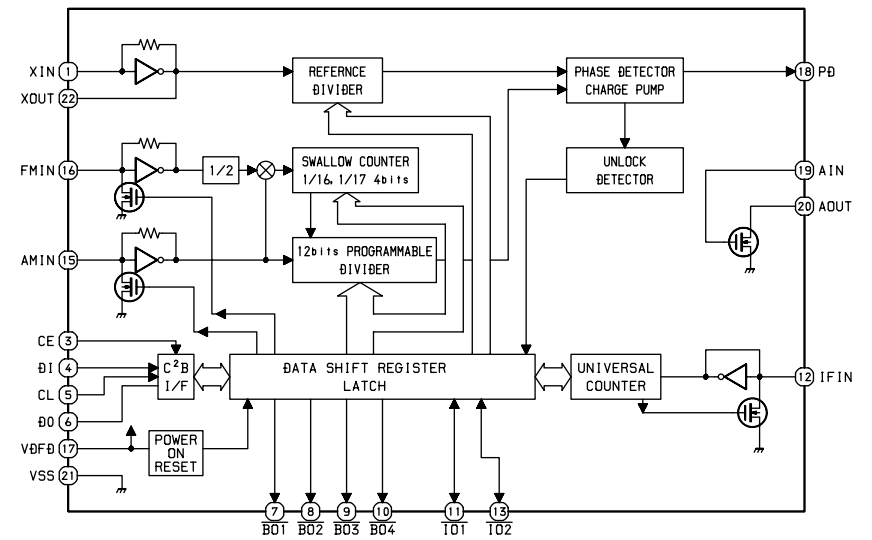
IC, LA1837NL



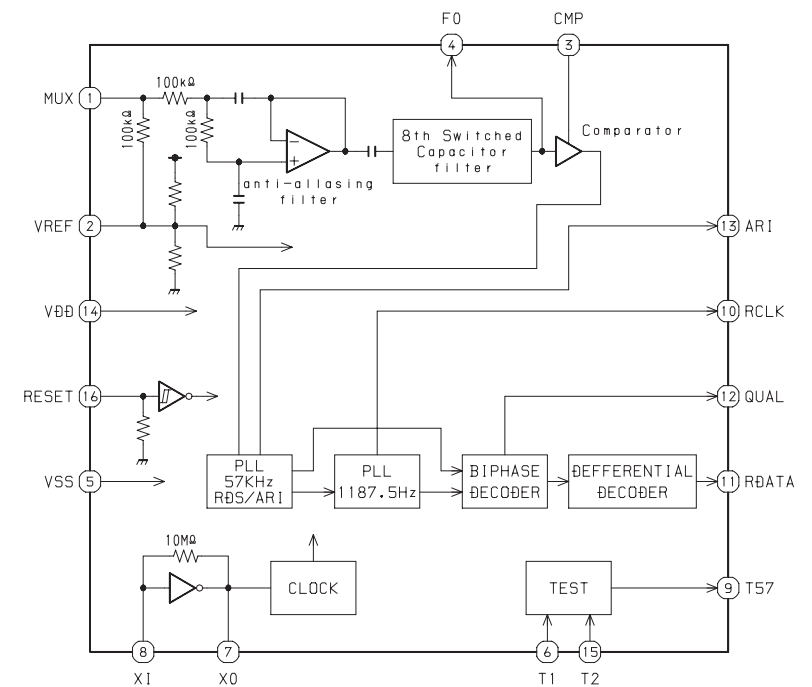
IC, LA6541D

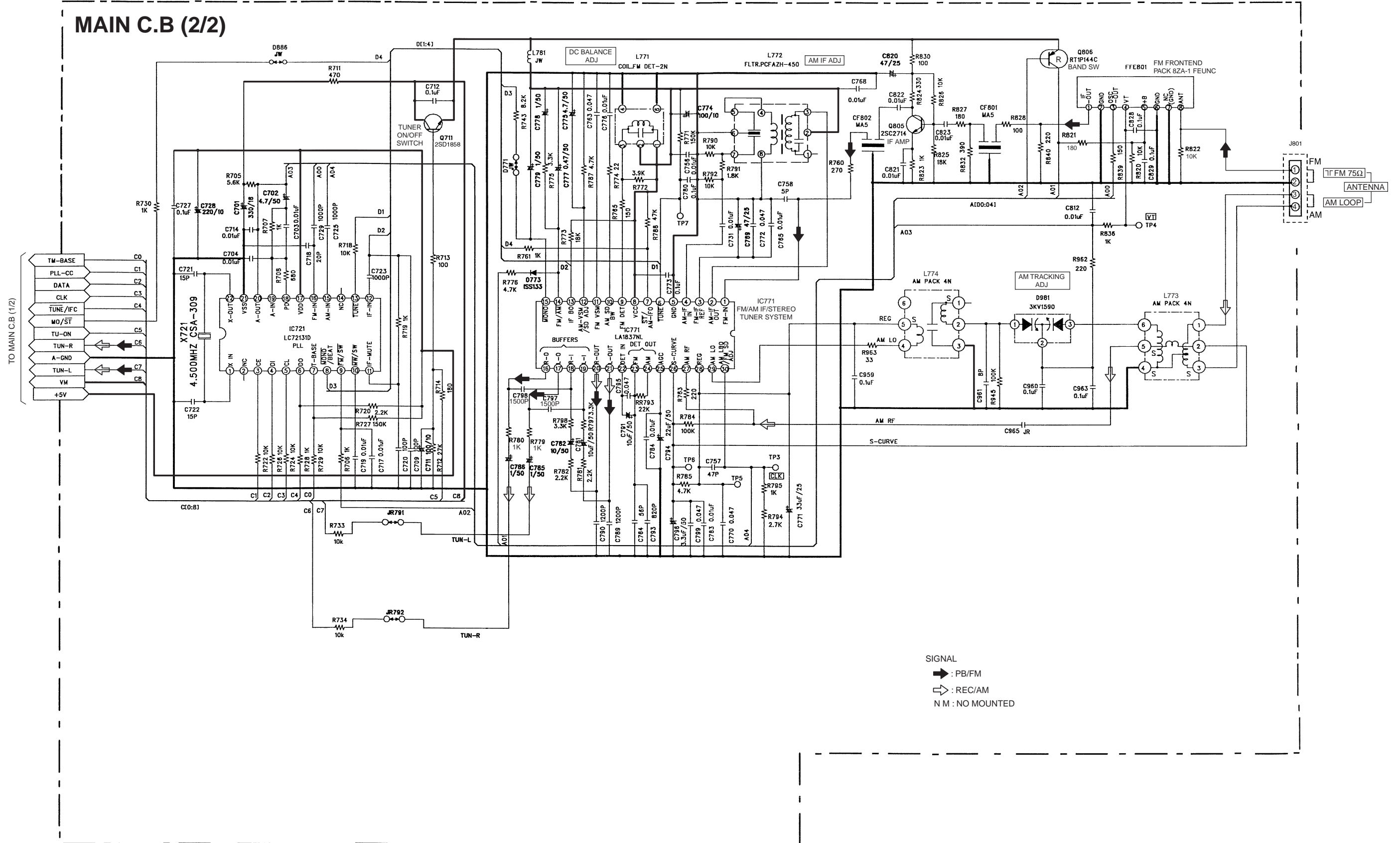


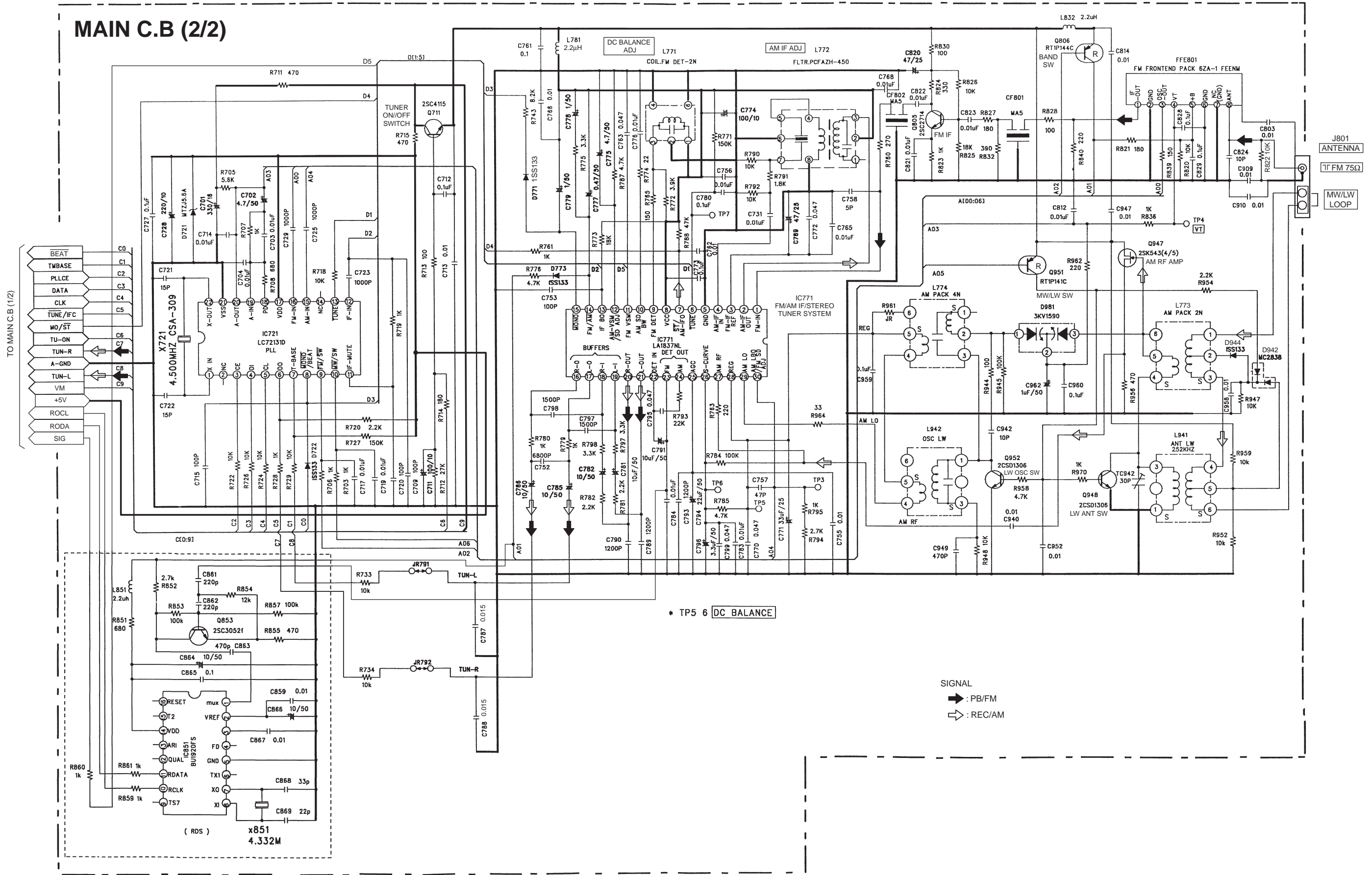
IC, LC72131D



IC, BU1920FS





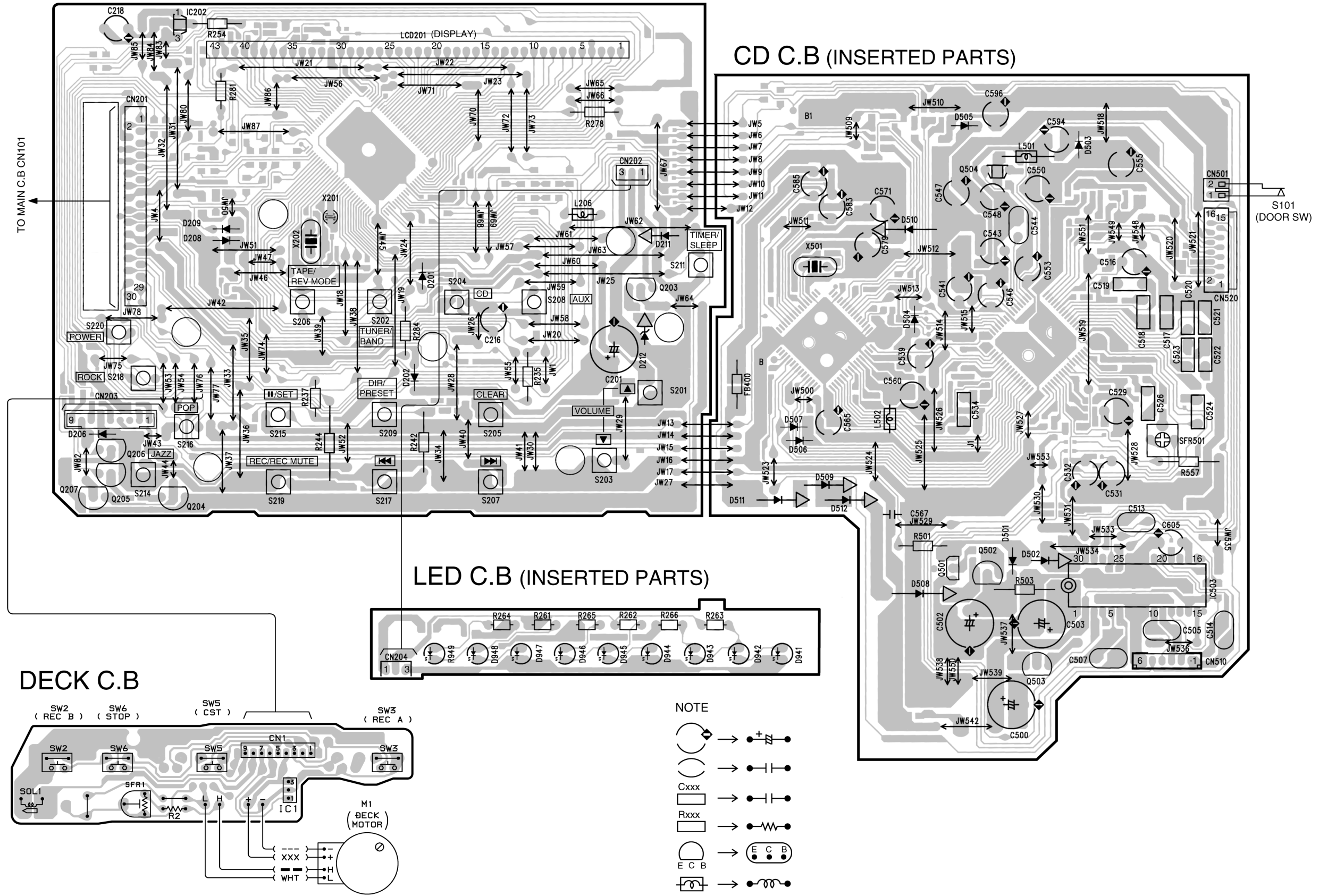


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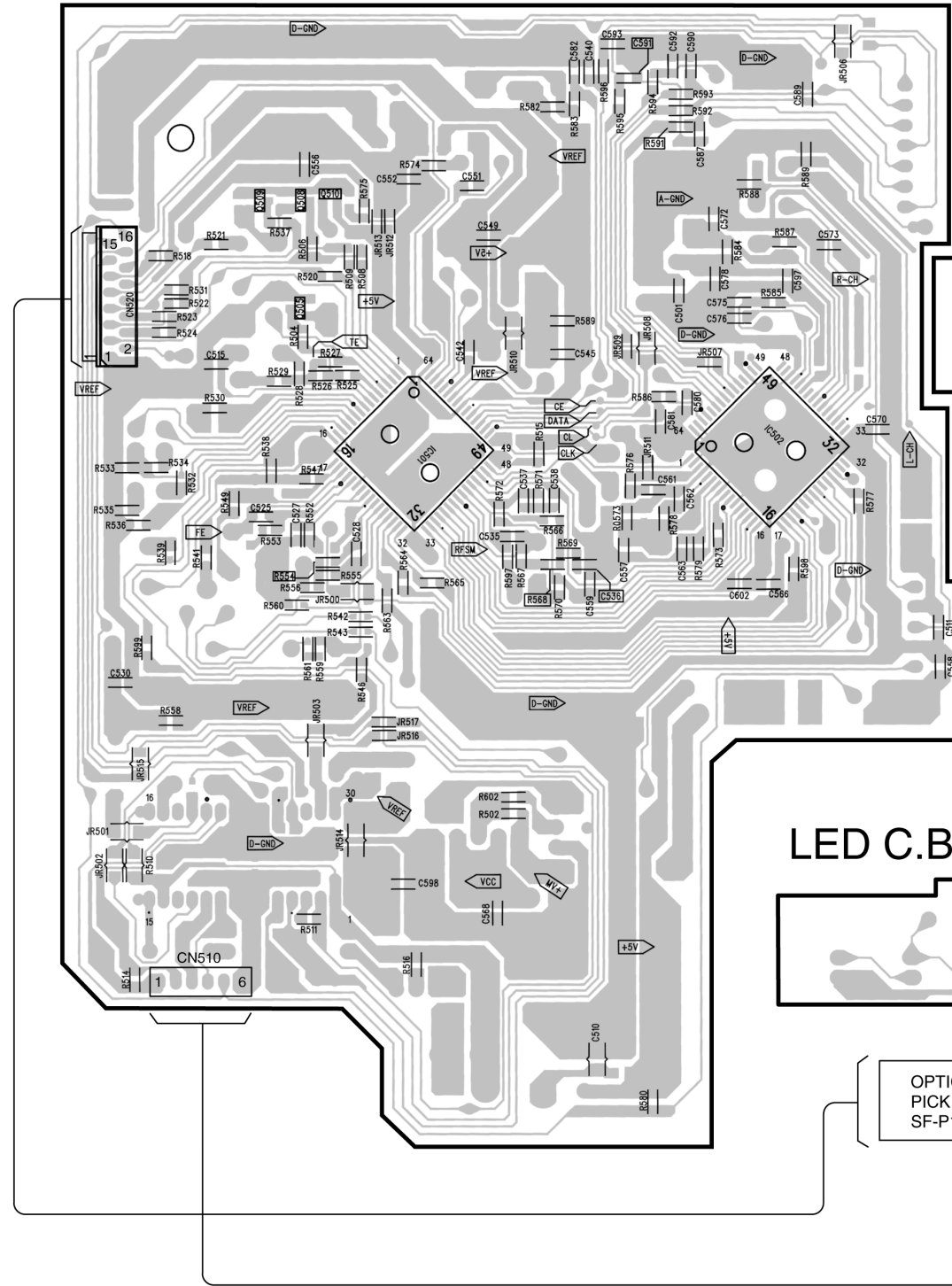
CD C.B (INSERTED PARTS)

LED C.B (INSERTED PARTS)

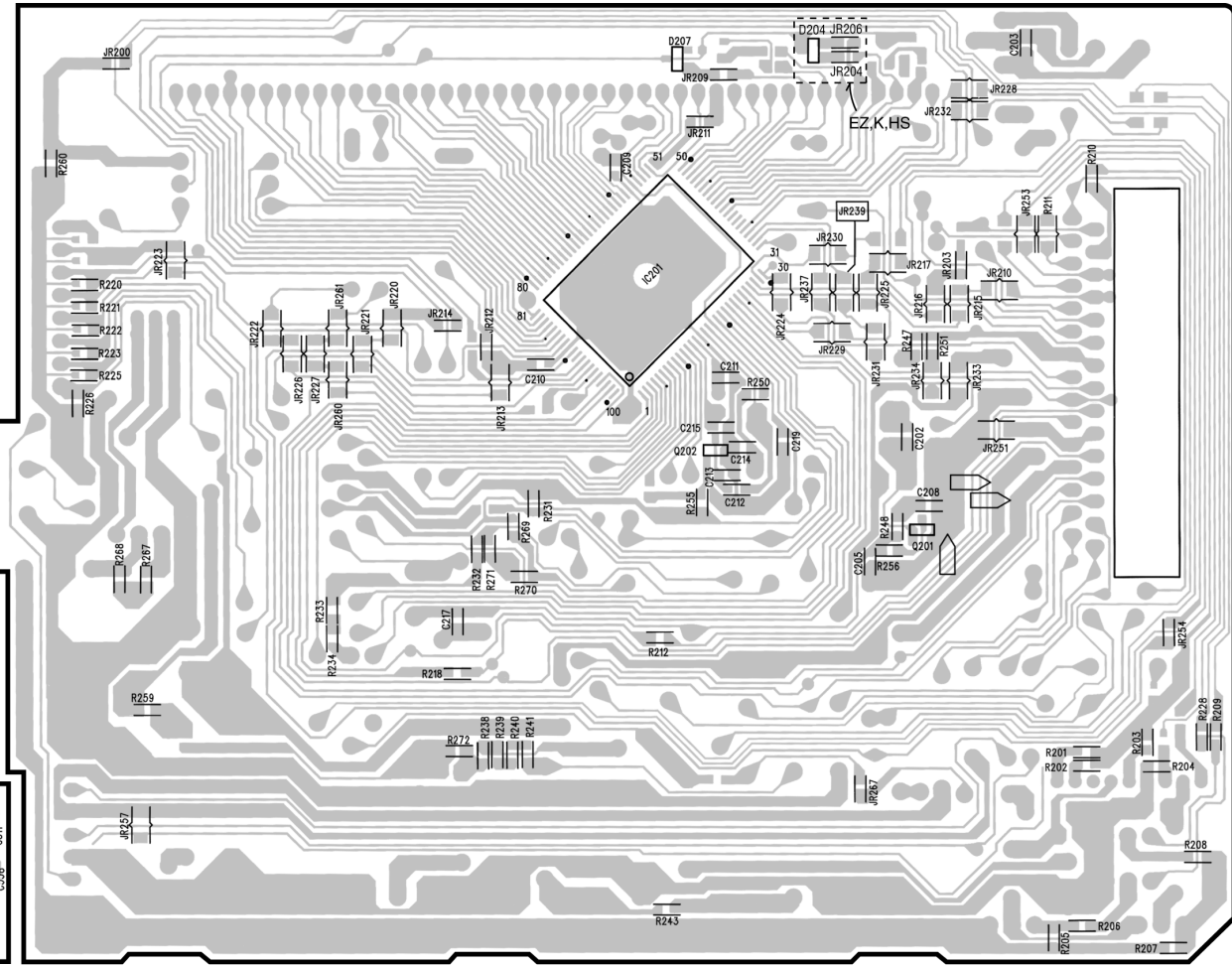
DECK C.B



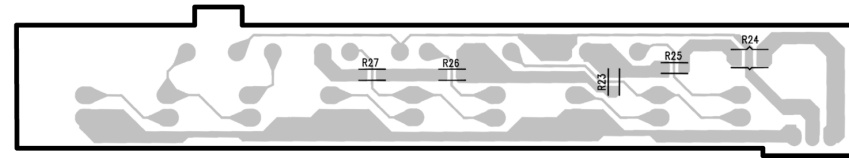
CD C.B (CHIP PARTS)



FRONT C.B (CHIP PARTS)

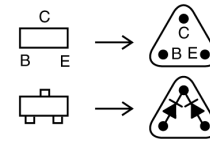


LED C.B (CHIP PARTS)

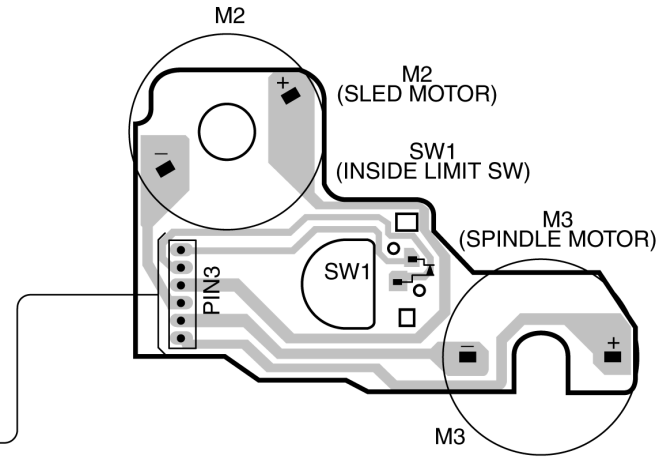


OPTICAL PICK UP SF-P101NR

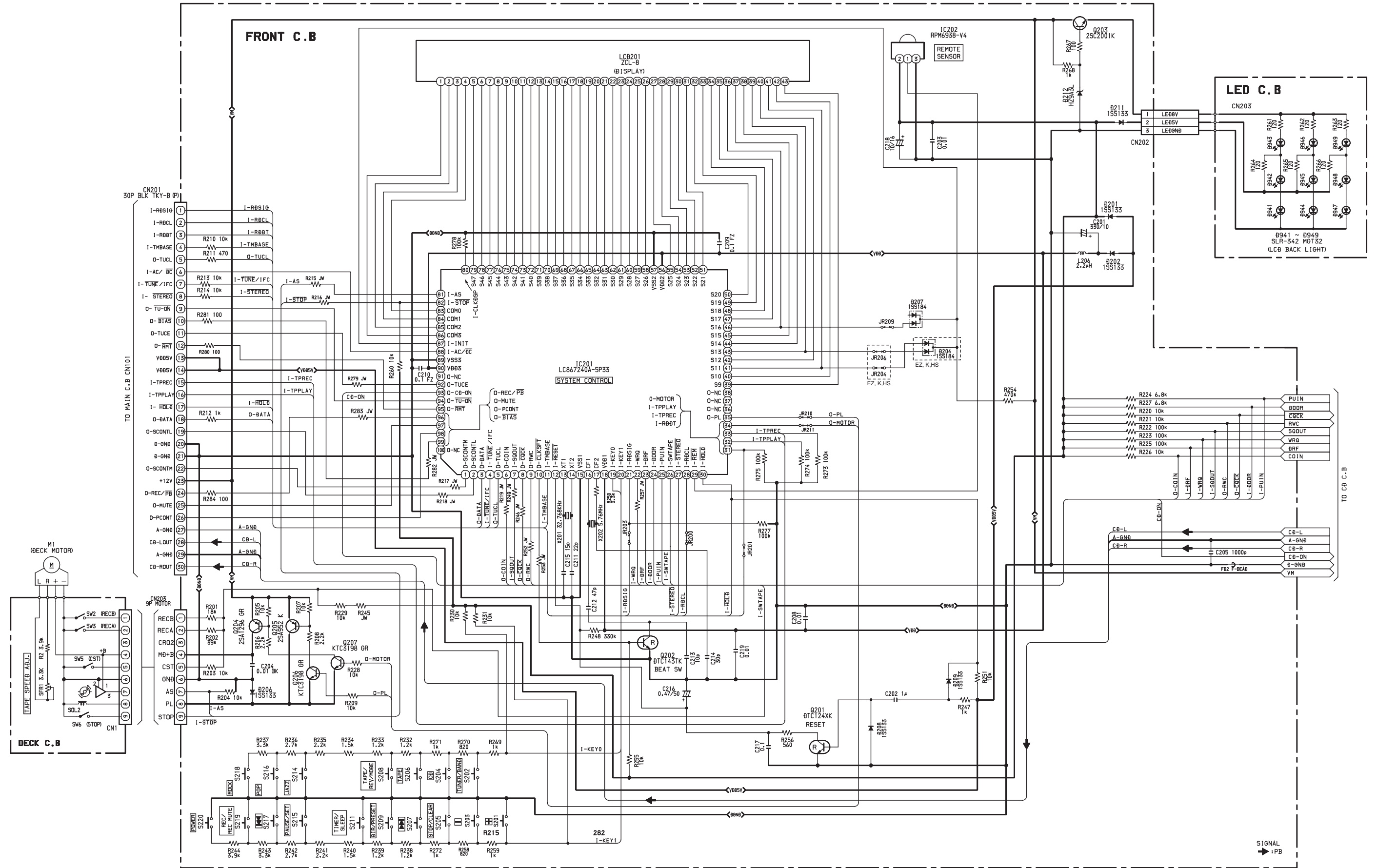
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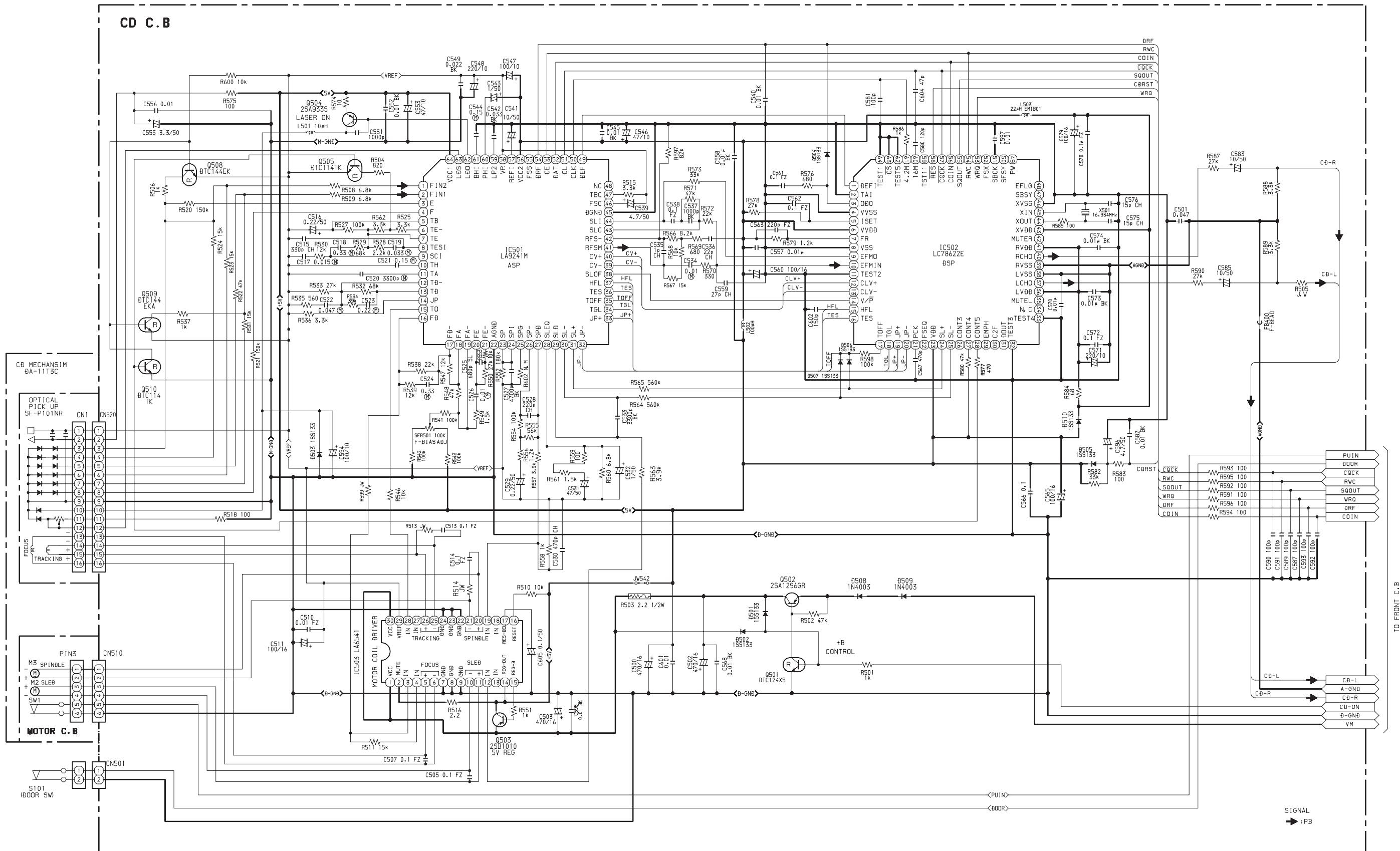
MOTOR C.B



SCHEMATIC DIAGRAM-4 (FRONT)



SCHEMATIC DIAGRAM-5 (CD)



VOLTAGE CHART

IC101 TDA2007A (V)

PIN	1	2	3	4	5	6	7	8	9
TU	1.4	0.7	11	0.74	1.4	GN	9.9	20.4	9.9
CD	1.4	0.7	11	0.72	1.4	GN	9.9	20.4	9.9

IC102 M62495AFP (V)

PIN	1	2	3	4	5	6	7	8	9	10	11	12
TU	2.4	2.4	2.4	2.39	NC	2.4	2.4	2.39	2.4	2	2.4	5.34
TAPE	2.4	2.4	2.4	2.38	NC	2.4	2.4	2.38	2.4	2	2.4	5.33
CD	2.4	2.4	2.4	2.35	NC	2.4	2.4	2.35	2.4	2	2.4	5.29
PIN	13	14	15	16	17	18	19	20	21	22	23	24
TU	2.5	GN	2.4	2.42	2.4	2.4	2.4	NC	2.4	2	2.4	2.4
TAPE	2.5	GN	2.4	2.4	2.4	2.4	2.4	NC	2.4	2	2.4	2.4
CD	2.5	GN	2.4	2.4	2.4	2.4	2.4	NC	2.4	2	2.4	2.4

IC301 BA4560 (V)

PIN	1	2	3	4	5	6	7	8
TAPE	4.2	4.5	4.2	GN	4.2	4.2	4.2	8.69
REC	4.2	4.2	4.1	GN	4.1	4.2	4.2	8.68

IC302 BA4560 (V)

PIN	1	2	3	4	5	6	7	8
TAPE	4.2	4.5	4.2	GN	4.2	4.2	4.2	8.69
REC	4.2	4.2	4.1	GN	4.1	4.2	4.2	8.68

IC721 LC72131D PLL (V)

PIN	1	2	3	4	5	6	7	8	9	10	11
FM	2.7	0	2.5	0.96	1	5.5	2	0	0.8	0	0
MW	2.7	0	0	0	0	5.5	2	0	9.1	0	0
LW	2.7	0	0	0	0	5.5	2	0	9.3	9	0
PIN	12	13	14	15	16	17	18	19	20	21	22
FM	0	9.1	NC	7.7	2.1	0	0	0	0	0	2.7
MW	0	9.2	NC	2.7	0	5.5	0.9	0.91	4.3	0	2.7
LW	0	9.3	NC	2.71	0	5.5	0.9	0.99	1.3	0	2.7

IC851 BU1920FS RDS (V) (HS, K, EZ MODELS)

PIN	1	2	3	4	5	6	7	8
FM(RDS)	0.4	0.6	0.4	0	0.9	6.7	0.9	0.62
PIN	9	10	11	12	13	14	15	16
FM(RDS)	0.7	0.9	0.9	0.83	0	0.4	0.9	0.89

IC771 LA1837NL (V)

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
FM	3.6	9.1	3.6	3.56	GN	0	0	9.09	9.1	1	2.5	0	0.5	8	8
MW	3.6	9.3	3.5	3.54	GN	9.2	5.5	9.31	9.3	1	0	0	0.5	5	5.6
LW	3.6	9.4	3.6	3.54	GN	9.3	5.5	9.43	9.4	1	0	0.79	0.5	5.1	5.7
PIN	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
FM	4.3	4.3	4.3	4.29	3.4	3.4	2.8	3.54	0	0	3.6	3.6	3.6	3.6	2.2
MW	4.3	4.3	4.3	4.27	3.4	3.4	2.8	2.7	0.7	1	3.6	3.54	3.6	3.6	2
LW	4.3	4.3	4.3	4.28	3.4	3.4	2.8	2.58	0.9	1	3.6	3.54	3.6	3.6	2

FM FFE801 (V)

PIN	1	2	3	4	5	6	7	8
FM	0	GN	0	2.47	7.1	GN	0	0
MW	0	GN	0	4.34	0	GN	0	0

IC501 LA9241M CD (V)

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
dynamics	2.5	2.5	2.6	2.55	2.5	2.5	2.5	2.54	2.5	3	2.5	2.52	2.6	2.5	2.6
stafics	2.5	2.5	2.5	2.52	2.5	2.5	2.5	2.51	2.5	2	2.5	2.51	2.5	2.5	2.5
PIN	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
dynamics	2.6	2.5	2.5	2.54	2.6	2.5	GN	2.51	2.5	3	2.5	2.6	2.5	2.6	2.4
stafics	2.5	2.5	0	2.49	2.5	2.5	GN	0	0	3	2.5	2.51	2.5	2.5	2.3
PIN	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
dynamics	2.4	0	0	4.99	0	1.2	0	0	0	0	2.3	2.43	2.6	2.5	GN
stafics	2.3	0	0	4.94	4.8	0	0	4.92	0	0	1.6	2.4	2.6	2.5	GN
PIN	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
dynamics	2.5	2.6	NC	0	2.4	4.7	4.8	0	4.9	NC	5	2.53	2.5	2.3	2.4
stafics	2.5	2.5	NC	0	0	0	4.8	0	0	NC	0	2.51	2.5	1	1
PIN	61	62	63	64											
dynamics	2.2	3.6	0	0											
stafics	2.2	4.3	0	0											

IC502 LC78622E CD (V)

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
dynamics	0	0	1.5	0	2	4.9	0.3	0	2.7	3	0	0	0	0	0
stafics	0	0	0	0	2	4.9	0	0	2.5	3	0	0	0	4.9	0
PIN	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
dynamics	1.8	0	5	0	0	2.5	NC	4.19	0	0	NC	4.98	0	NC	NC
stafics	0	4.9	4.9	0	0	2.5	NC	4.95	0	0	NC	4.93	0	NC	NC
PIN	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
dynamics	2.5	0	0	NC	NC	4.9	2.1	0	0	2	4.9	NC	5	2	2.5
stafics	0	0	0	NC	NC	4.8	2.1	0	0	2	4.8	NC	5	2	2.2
PIN	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
dynamics	0	NC	NC	NC	NC	0	NC	0.75	0	0	4.8	4.6	5	NC	2
stafics	0	NC	NC	NC	NC	0	NC	0	0	0	4.8	4.77	5	NC	2
PIN	61	62	63	64											
dynamics	2.4	0	0	0											
stafics	235	0	0	0											

IC503 LA6541 CD (V)

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
dynamics	9.9	5	2.5	2.52	4.6	4.5	GN	GN	GN	5	4.6	2.52	NC	5	9.3
stafics	10	5	2.5	2.51	4.7	4.7	GN	GN	GN	5	4.7	2.51	NC	5	9.5
PIN	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
dynamics	5	4.9	NC	2.53	4.9	4	GN	GN	GN	5	4.5	NC	2.5	2.5	9.8
stafics	4.9	4.8	NC	2.51	4.7	4.6	GN	GN	GN	5	4.7	NC	2.5	2.5	10

IC201 LA867240A-5P33 CPU (V)

PIN	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
TU	0	0	0	0	0	0	0.8	0	0	0	1.9	4.67	1.8	2.6	0
TAPE	0	0	0	0	0	0	0	0	0	2	1.9	4.6	1.6	2.7	0
CD	0	0	0	0	0	4.8	0	4.65	0	2	1.9	4.63	1.6	2.6	0
PIN	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
TU	2.2	2.3	4.8	4.91	4.9	2.4	0.8	0.96	4.9	0	4.9	0	0.6	4.9	5.3
TAPE	2.3	2.3	4.8	4.91	4.9	0	0.8	0.96	4.9	1	1.8	0	0	4.9	5.3
CD	2.2	2.3	4.8	4.88	4.9	0	0.8	0.91	4.9	2	2.4	0	0	4.9	5.3
PIN	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
TU	0.5	0	0	0	0	0	0	2.5	2.4	2	2.4	2.49	2.4	2.5	2.5
TAPE	0	0	0	4.73	0	0	0	2.46	2.5	2	2.4	2.46	2.4	2.4	2.4
CD	0	0	0	0	0	0	0	2.34	2.3	2	2.3	2.33	2.3	2.3	2.3
PIN	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
TU	2.4	2.5	2.5	2.49	2.5	2.5	2.5	2.5	2.5	2	4.8	0	2.4	2.4	2.4
TAPE	2.4	2.4	2.4	2.43	2.4	2.4	1.7	1.9	2.5	2	4.8	0	2.4	2.4	2.4
CD	2.3	2.3	2.3	2.32	2.4	2.5	2.3	2.33	2.3	2	4.8	0	2.3	2.3	2.3
PIN	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
TU	2.5	2.5	2.5	2.47	2.4	2.4	2.4	2.4	2.4	2	2.5	2.47	2.4	2.5	2.5
TAPE	2.5	2.4	2.4	2.43	2.4	2.4	2.5	2.42	2.4	2	2.4	2.43	2.4	2.5	2.5
CD	2.3	2.4	2.3	2.34	2.4	2.4	2.3	2.34	2.4	2	2.3	2.35	2.4	2.3	2.3
PIN	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
TU	2.5	2.5	2.5	2.48	0	0	4.9	2.48	2.5	2	2.5	2.94	5.3	0	4.8
TAPE	2.5	2.5	2.5	2.46	0	0	0	2.45	2.5	2	2.5	3.54	5.3	0	4.8
CD	2.4	2.4	2.4	2.36	0	0	4.8	2.4	2.4	2	2.4	2.05	5.3	0	4.8
PIN	91	92	93	94	95	96	97	98	99	100					
TU	0	0	0	0	0	0	0	0.98	4.8	0					
TAPE	0	0	0	4.75	0	0	0	0.99	4.7	0					
CD	0	0	4.7	4.72	0	0	0	1.12	4.7	0					

Q101	KTC3198GR			Q102	KTC3198GR			Q103	2SB1370			Q105	KTC3198GR		
PIN	B	E	C	PIN	B	E	C	PIN	B	E	C	PIN	B	E	C
dynamics	0.7	0	0	dynamics	0	0	5.3	dynamics	21	21	12	dynamics	0.7	0	20
stafics(v)	0.7	0	0	stafics(v)	0	0	5.3	stafics(v)	21	21	12	stafics(v)	0.6	0	20

Q106	KTC3198GR			Q107	KTC3198GR			Q108	2SD1381F			Q104	2SB1370E		
PIN	B	E	C	PIN	B	E	C	PIN	B	E	C	PIN	B	E	C
dynamics	0.7	0	1	TAPE	12	11	12	TU (V)	6.2	6	16	dynamics	21	21	21
stafics(v)	0.7	0	91	CD (V)	12	12	11	CD (V)	6.2	6	16	stafics(v)	21	21	22

Q112	KTA1266GR			Q113	DTC144ES			Q109	DTC343TS			Q110	DTC343TS		
PIN	B	E	C	PIN	B	E	C	PIN	B	E	C	PIN	B	E	C
dynamics	20	21	21	dynamics	7.1	0	0	dynamics	0	0	0	dynamics	0	0	0
stafics(v)	20	21	22	stafics(v)	7.1	0	0	stafics(v)	1.4	0	0	stafics(v)	1.4	0	0

Q111	2SC1815Y			Q300	KTC3198GR			Q301	2SJ460			Q302	2SJ460		
PIN	B	E	C	PIN	B	E	C	PIN	B	E	C	PIN	B	E	C
TU (V)	0	0	10	PB(V)	0	0	7.2	PB(V)	7	4	4.2	PB(V)	7	4.2	4
CD (V)	0.7	0	0	REC(V)	0.7	0	0	REC(V)	0	4	4.1	REC(V)	0	4.1	4.1

Q303	2SK2541			Q304	2SK2541			Q305	2SJ460			Q306	DTC144ES		
PIN	B	E	C	PIN	B	E	C	PIN	B	E	C	PIN	B	E	C
PB(V)	7	4.2	4.2	PB(V)	7	4.2	4.2	PB(V)	3.5	4	4.2	PB(V)	7.2	0	0
REC(V)	0	4.2	4.1	REC(V)	0	4.2	4.1	REC(V)	17	9	4.2	REC(V)	0	0	16

Q307	2SJ460			Q308	2SJ460			Q309	2SA1993			Q310	2SA1993F		
PIN	B	E	C	PIN	B	E	C	PIN	B	E	C	PIN	B	E	C
PB(V)	3.6	4.2	4.2	PB(V)	3.6	4.2	4.2	PB(V)	7.2	4	4.2	PB(V)	7.2	4.2	4.2
REC(V)	17	4.5	9.2	REC(V)	17	4.5	9.2	REC(V)	4.2	4	4.2	REC(V)	4.2	3.6	4.2

Q311	2SA1993F			Q313	KTC1898GR			Q314	2SC3331T			Q315	2SC3331T		
PIN	B	E	C	PIN	B	E	C	PIN	B	E	C	PIN	B	E	C
PB(V)	8.7	4.2	4.2	PB(V)	0.5	4.2	0	PB(V)	0	0	0	PB(V)	0	0	0
REC(V)	3.6	4.2	4.2	REC(V)	2.3	4.2	1.7	REC(V)	0.7	1	6.2	REC(V)	0.8	0.7	6.3

Q316	2SC3331T			Q317	KTC1898GR			Q318	KTC3198GR			Q204	2SA1296GR		
PIN	B	E	C	PIN	B	E	C	PIN	B	E	C	PIN	B	E	C
PB(V)	0	0	11	PB(V)	0.7	0	0	PB(V)	0	0	8.7	PB(V)	11	12	12
REC(V)	7.4	6.6	8.5	REC(V)	0	0	7.5	REC(V)	0.7	0	0	REC(V)	11	12	12

Q205	2SA952K			Q206	KTC3198GR			Q207	KTC3198GR			Q201	DTC124XK		
PIN	B	E	C	PIN	B	E	C	PIN	B	E	C	PIN	B	E	C
PB(V)	0	12	12	PB(V)	0	0	12	PB(V)	0.7	0	0	CD(V)	0	0	4.7
REC(V)	12	12	0	REC(V)	0	0	12	REC(V)	0.7	0	0	TU(V)	0	0	4.7

GRID ASSIGNMENT

Q202	DTC143TK			Q203	2SC2001K			Q711	C4115			Q853	2SC3052		
PIN	B	E	C	PIN	B	E	C	PIN	B	E	C	PIN	B	E	C
CD(V)	2	0	0	CD(V)	8.4	7.7	12	CD(V)	0	0	12	RDS(V)	1.5	0.9	3.8
TU(V)	0	0	0.5	TU(V)	8.4	7.7	12	TU(V)	9.8	9	12				

HS, K, EZ

Q805	2SC2714			Q806	RTIP144C			Q951	RTIP141C			Q947	2SK543		
PIN	B	E	C	PIN	B	E	C	PIN	B	E	C	PIN	B	E	C
FM(V)	5.2	4.5	7.2	FM(V)	0.8	9.1	9	FM(V)	9.1	9	0	FM(V)	0	9.1	0.4
AM(V)	5.4	4.2	7.3	AM(V)	0	9.3	0	AM(V)	0.8	9	9.3	AM(V)	0	9.3	0.4

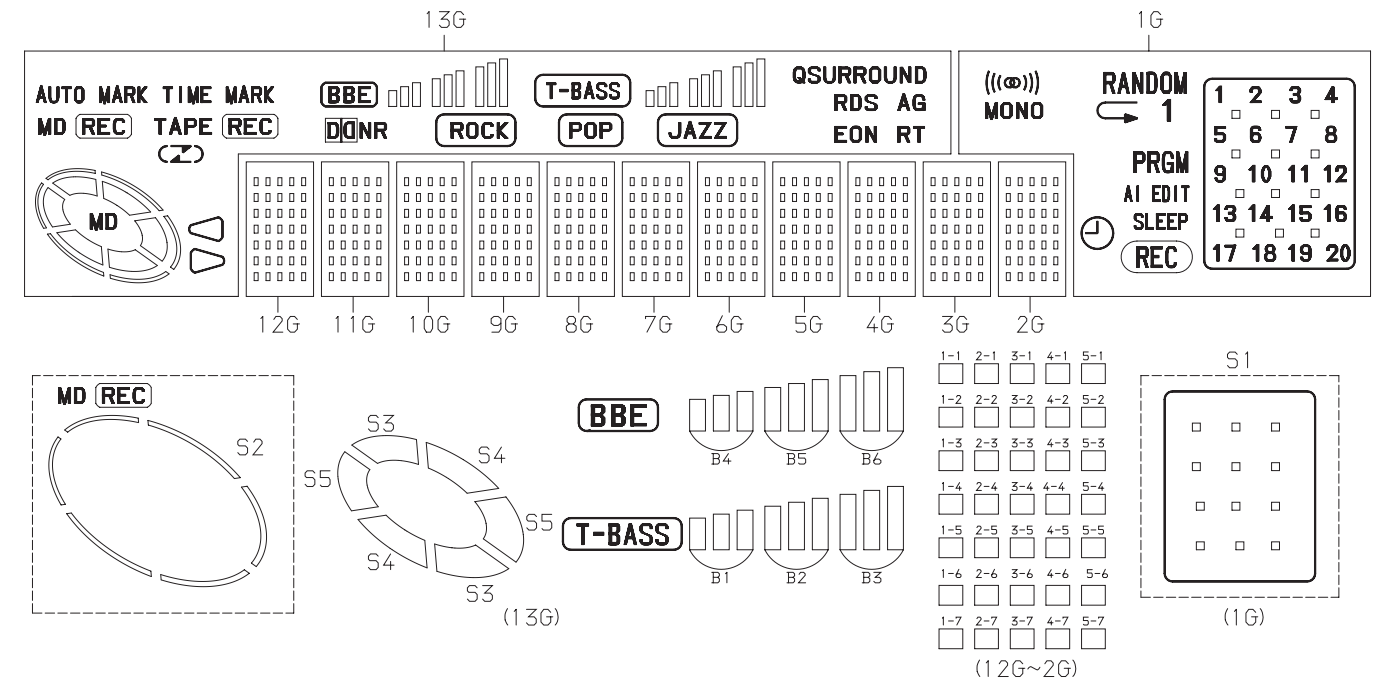
HS, K, EZ

Q952	2SD1306			Q948	2SD1306			Q501	DTC124XS			Q502	2SA1296GR		
PIN	B	E	C	PIN	B	E	C	PIN	B	E	C	PIN	B	E	C
MW(V)	1.9	1.2	1.2	MW(V)	1.9	1.1	1.1	dynamics	4.5	0	0.2	dynamics	9.6	10	10
LW(V)	0	1.1	1.1	LW(V)	0	1.1	1.1	stafics(v)	4.5	0	0.2	stafics(v)	9.5	10	10

HS, K, EZ

Q503	2SA1296GR			Q504	2SA933RS			Q505	DTC114TK			Q508	DTC144EK		
PIN	B	E	C	PIN	B	E	C	PIN	B	E	C	PIN	B	E	C
dynamics	9.8	10	5	dynamics	4.2	4.8	1.6	dynamics	0.1	2	2.5	dynamics	4.3	2.5	2.5
stafics(v)	9.7	10	5.2	stafics(v)	3.7	4.4	2.1	stafics(v)	0.1	3	2.5	stafics(v)	4.4	2.5	2.5

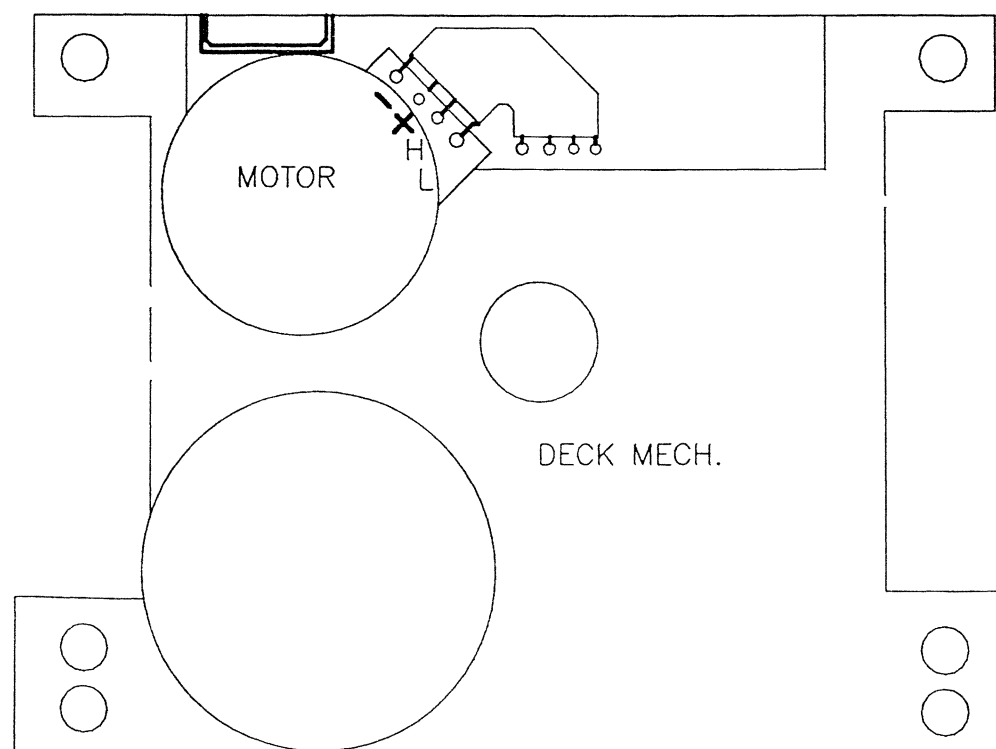
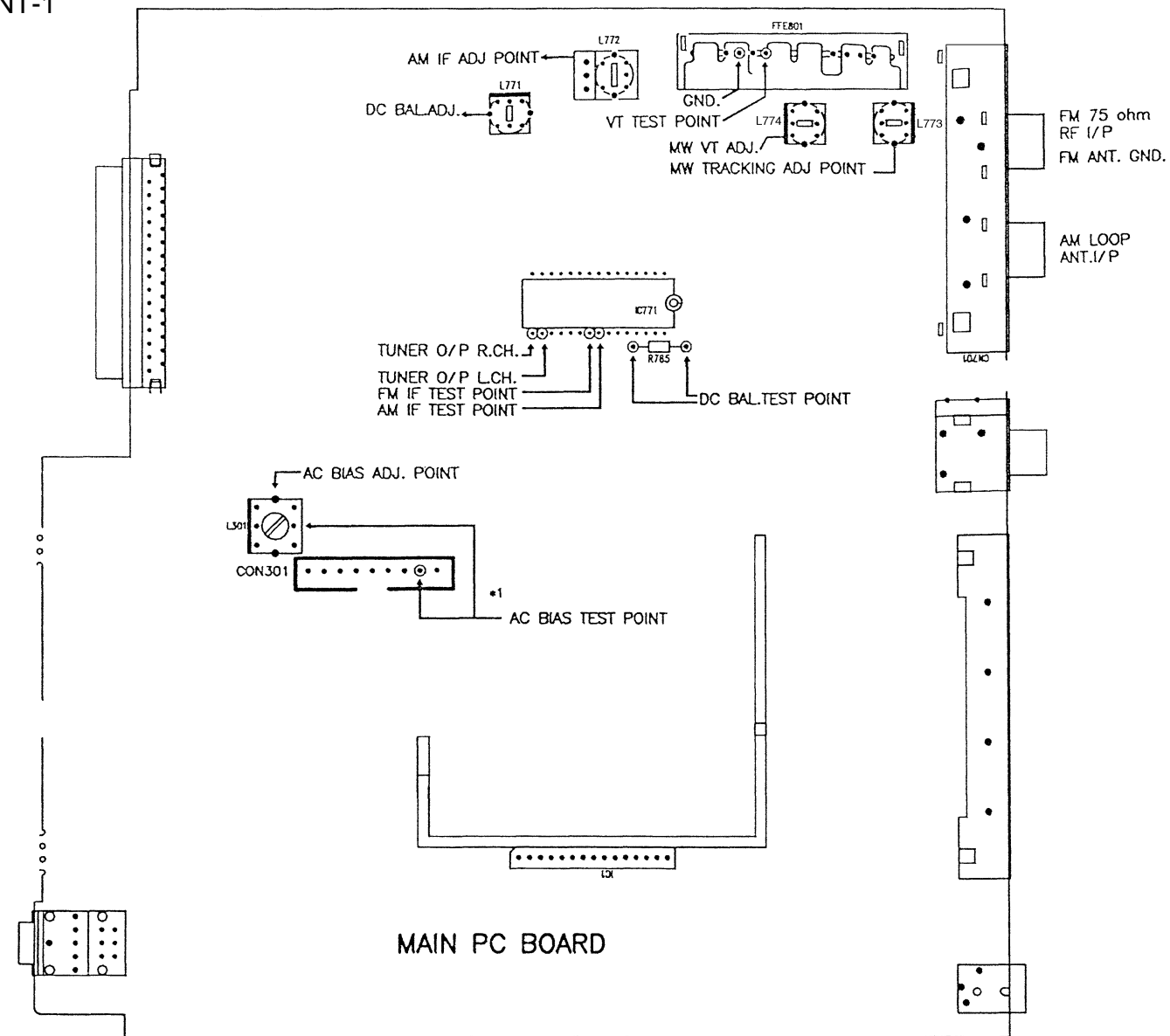
Q509	DTC144EK			Q510	DTC114TK		
PIN	B	E	C	PIN	B	E	C
dynamics	4.3	2.5	2.5	dynamics	0.1	0	4.3
stafics(v)	4.4	2.5	2.5	stafics(v)	0.1	0	4.4



ANODE CONNECTION

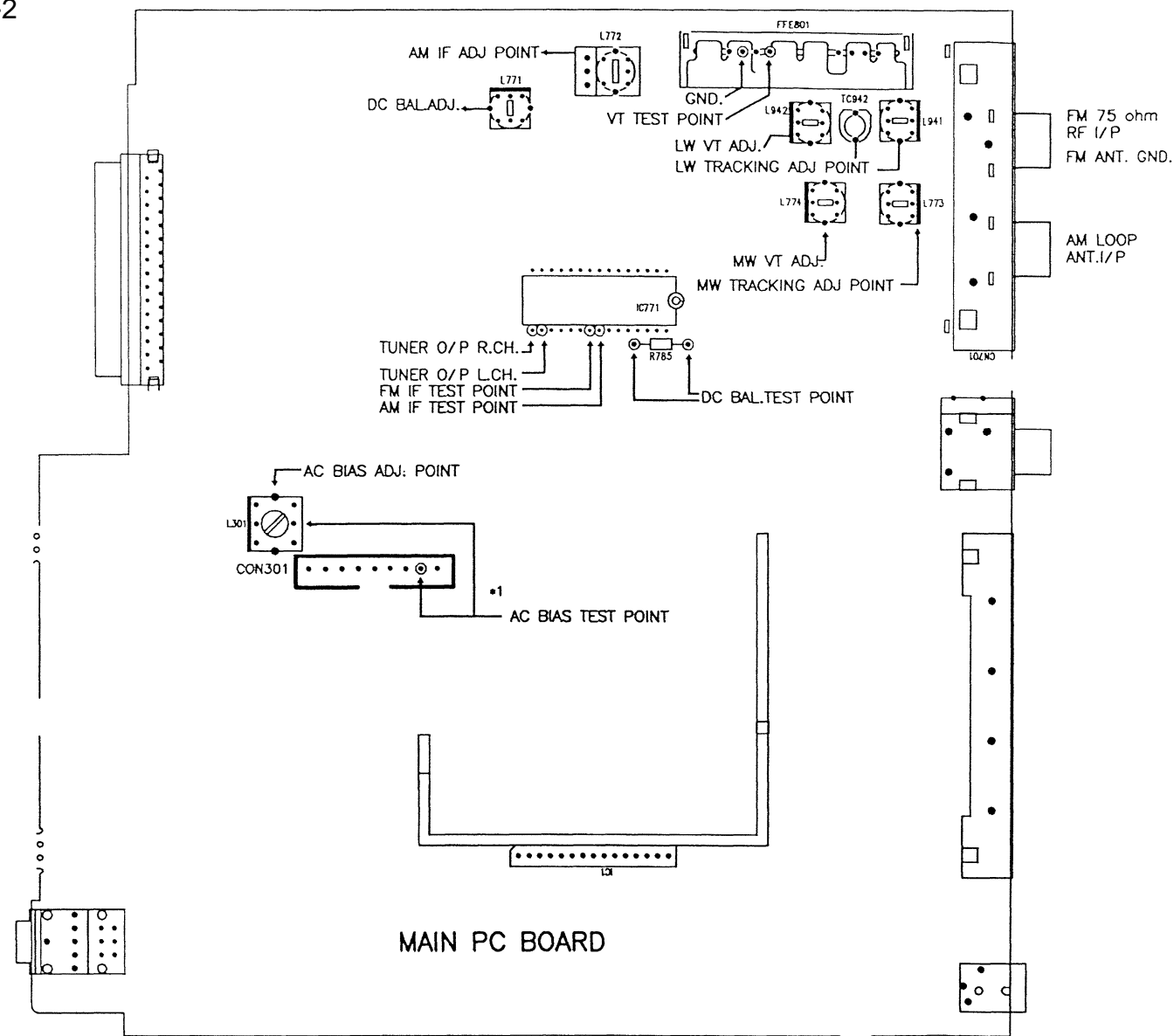
	13G	12G~2G	1G		13G	12G~2G	1G
P1	JAZZ	1-1	1	P19)	4-4	8
P2	POP	2-1	↶	P20	⚡	5-4	9
P3	ROCK	3-1	MONO	P21	C	1-5	10
P4	DO NR	4-1	RANDOM	P22	TAPE REC	2-5	11
P5	RT	5-1	((∞))	P23	S2	3-5	12
P6	EON	1-2	PRGM	P24	S3	4-5	13
P7	AG	2-2	AI	P25	S4	5-5	14
P8	RDS	3-2	EDIT	P26	S5	1-6	15
P9	B1	4-2	SLEEP	P27	MD	2-6	16
P10	B2	5-2	⌚	P28	TIME MARK	3-6	17
P11	B3	1-3	REC	P29	AUTO MARK	4-6	18
P12	T-BASS	2-3	(CALENDAR) 1	P30	QSURROUND	5-6	19
P13	B4	3-3	2	P31	-	1-7	20
P14	B5	4-3	3	P32	-	2-7	S1
P15	B6	5-3	4	P33	-	3-7	-
P16	BBE	1-4	5	P34	-	4-7	-
P17	⏸	2-4	6	P35	-	5-7	-
P18	⏸	3-4	7				

ELECTRICAL ADJUSTMENT-1
(HR MODEL)

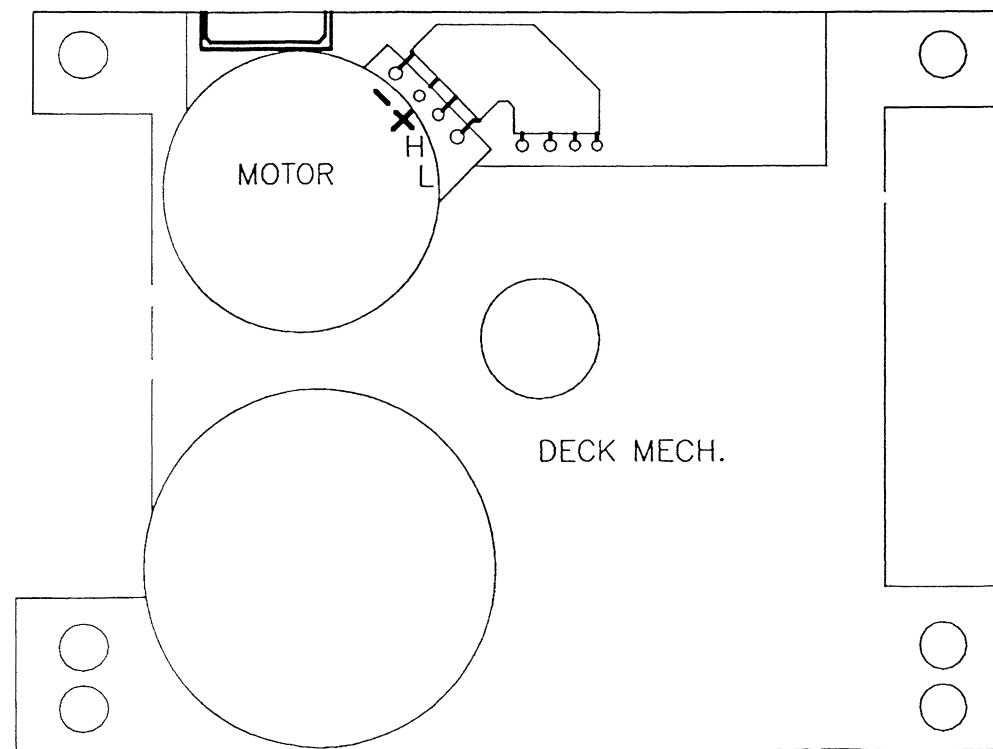


ADJUSTMENT ITEM	ADJ. POINT	TEST POINT	SET FREQ.	SETTING
MW VT ADJ.	L774	FFE801 4PIN TO GND.	1602KHz OR 1710KHz	6.5V+/-0.1V
MW VT CHECK	-	FFE801 4PIN TO GND.	531KHz OR 530KHz	<= 2.0V
MW TRACKING ADJ.	L773	TUNER O/P L/R	999KHz OR 1000KHz	MAX. Output Sine Wave (Min. Dist.)
FM VT ADJ.	-	FFE801 4PIN TO GND.	108 MHz	<= 8V
FM VT CHECK	-	FFE801 4PIN TO GND.	87.5MHz	<= 2.5V
DC BAL. ADJ.	L771	Both Terminal OF R785	98 MHz	0 mv (+/- 20 mv)
FM IF CHECK	-	IC771 PIN 22	10.7 MHz	-
AM IF ADJ.	L772	IC771 PIN 24	450 KHz	-
REC. BIAS FREQ ADJ.	-	*1	-	80KHz +/- 3KHz (With R/P HEAD)
REC. BIAS LEVEL ONLY CHECK	L301	*1	-	(With R/P HEAD)
BEAT CUT ST / ON MONO/OFF	TEST ONLY	*1	FM 98MHz Deck REC.	4 KHz +/- 1 KHz
TAPE SPEED	MOTOR	SPEAKER OUTPUT	-	3000Hz +3/-2%
DECK R/P HEAD ADJ.	R/P HEAD	SPEAKER OUTPUT	8 KHz TEST TAPE	-

ELECTRICAL ADJUSTMENT-2
(HS, K, EZ MODELS)



ADJUSTMENT ITEM	ADJ. POINT	TEST POINT	SET FREQ.	SETTING
MW VT ADJ.	L774	FFE801 4PIN TO GND.	1602KHz	5.5V+/-0.1V
MW VT CHECK	-	FFE801 4PIN TO GND.	531KHz OR 530KHz	<= 2.0V
MW TRACKING ADJ.	L773	TUNER O/P L/R	1000 KHz	MAX. Output Sine Wave (Min. Dist.)
LW VT ADJ.	L942	FFE801 4PIN TO GND.	290KHz	5.0V+/-0.1V
LW VT CHECK	TEST ONLY	FFE801 4PIN TO GND.	144KHz	<= 2.5V
LW TRACKING ADJ.	TC942	TUNER O/P L/R	290KHz	MAX. Output Sine Wave (Min. Dist.)
	L941	TUNER O/P L/R	144KHz	
FM VT ADJ.	-	FFE801 4PIN TO GND.	108 MHz	<= 8V
FM VT CHECK	-	FFE801 4PIN TO GND.	87.5MHz	<= 2.5V
DC BAL. ADJ.	L771	Both Terminal OF R785	98 MHz	0 mv (+/- 20 mv)
FM IF CHECK	-	IC771 PIN 22	10.7 MHz	-
AM IF ADJ.	L772	IC771 PIN 24	450 KHz	-
REC. BIAS FREQ ADJ.	-	*1	-	80KHz +/- 3KHz (With R/P HEAD)
REC. BIAS LEVEL ONLY CHECK	L301	*1	-	(With R/P HEAD)
BEAT CUT ST / ON MONO/OFF	TEST ONLY	*1	FM 98MHz Deck REC.	4 KHz +/- 1 KHz
TAPE SPEED	MOTOR	SPEAKER OUTPUT	-	3000Hz +3/-2%
DECK R/P HEAD ADJ.	R/P HEAD	SPEAKER OUTPUT	8 KHz TEST TAPE	-



IC DESCRIPTION
IC, LC867240A-5P33

Pin No.	Pin Name	I/O	Description
1	O-SCONTM	O	M62439SP control. open drain output.
2	O-SCONTL	O	
3	O-DATA	O	Tuner control. CMOS output.
4	I-TUNE/IFC	I	Tuner control.
5	O-TUCL	O	Tuner control. CMOS output.
6	O-COIN	O	CD control. open drain output.
7	I-SQOUT	I	CD control.
8	O-CQCK	O	CD control. open drain output.
9	O-RWC	O	
10	O-CLKSFT	O	Clock shift output. "L" during shift. open drain output.
11	I-TMBASE	I	8 Hz time base input.
12	I-RESET	I	Reset input.
13	XT1	I	Input pin.
14	XT2	O	Output pin for 32.768kHz crystal oscillation.
15	VSS1	—	GND.
16, 17	CF1, CF2	I/O	Main clock input/output 5.76 MHz.
18	VDD1	—	+5V.
19	I-KEY0	I	KEY0 A/D input.
20	I-KEY1	I	KEY1 A/D input.
21	I-RDSIG	I	RDS signal level input. (A/D input)
22	I-WRQ	I	CD control.
23	I-DRF	I	
24	I-DOOR	I	CD door SW detection SW input. "L" at CLOSE.
25	I-PUIN	I	CD pick-up detection SW input. "L" at ON.
26	I-SWTAPE	I	Tape detection SW input. (A/D input)
27	I-STEREO	I	Monaural/stereo indication selector input. "L" at stereo.
28	I-RDCL	I	RDS clock input.
29	I-REM	I	Remote control input. (fall-down edge interrupt input)
30	I-HOLD	I	Hold mode detection. "L" at hold mode.
31	I-RDDT	I	RDS data input.
32	I-TPREC	I	Tape REC detection input. "H" at REC.
33	I-TPPLAY	I	Tape PLAY detection input. "H" at PLAY.
34	O-MOTOR	O	Mechanism deck motor ON/OFF output. "H" at ON. CMOS output.
35	O-PL	O	Mechanism deck plunger solenoid ON/OFF output. "H" at ON. CMOS output .
36-38	O-NC	O	Not used.
39-55	S9-S25	O	LCD SEG terminal Initial setting output. (S10 to S16)
56	VDD2	—	+5V.
57	VSS2	—	GND.
58-79	S26-S47	O	LCD SEG terminal .
80	I-CLKDSP	I	Watch indication select input "L": 12H. "H": 24H.
81	I-AS	I	Auto stop. counter input .

Pin No.	Pin Name	I/O	Description
82	I-STOP	I	Tape stop input.
83-86	COM0-COM3	O	LCD common output.
87	I-INIT	I	Initial setting input.
88	I-AC/DC	O	Beat selector output. "H" during selection. CMOS output .
89	VSS3	—	GND.
90	VDD3	—	5V.
91	O-NC	O	Not used.
92	O-TUCE	O	Tuner chip enable output. CMOS output .
93	O-CD-ON	O	"H" output during CD function. CMOS output.
94	O-TU-ON	O	"H" output during TU function. Open drain output.
95	O-RMT	O	REC mute output. "H" during mute. Open drain output.
96	O-REC/PB	O	REC/PB select output. "H" during PB. Open drain output.
97	O-MUTE	O	Mute output. "H" during mute. Open drain output.
98	O-PCONT	O	Power control output. "H" at ON. CMOS output.
99	O-BIAS	O	REC bias ON/OFF output. "H" at ON. Open drain output.
100	O-NC	O	Not used.

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	—	Single ended output of the CV+ and CV- pin input signal.
24	SPI	I	Spindle amp input.
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.

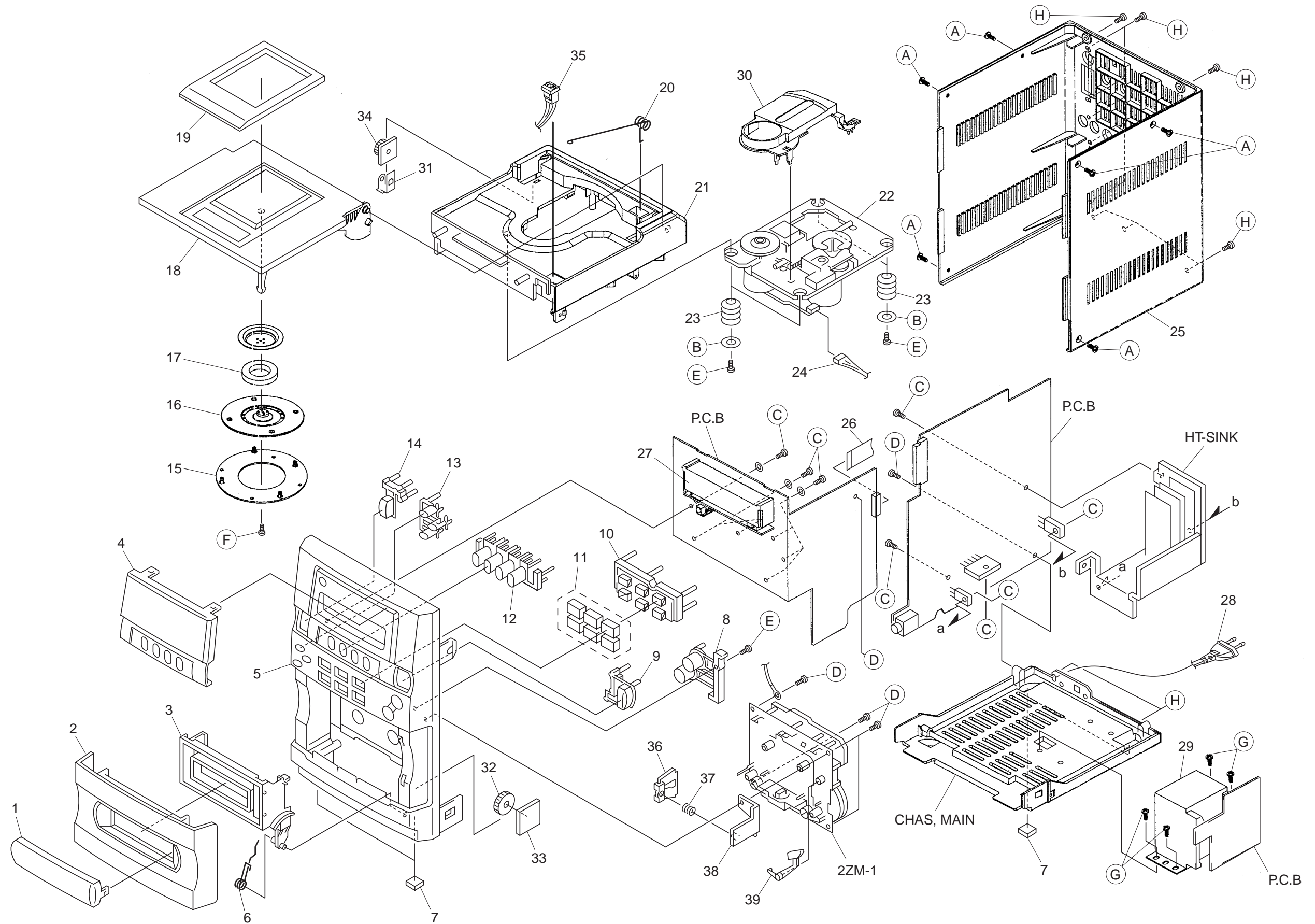
Pin No.	Pin Name	I/O	Description
36	TES	O	Pin from which TES signal is output to DSP.
37	HFL	O	“High Frequency Level” is used to judge whether the main beam position is on top of bit or on top of mirror.
38	SLOF	I	Sled servo off control input pin.
39, 40	CV-, CV+	I	CLV error signal input pin from DSP.
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	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.	
24-28	SL+, SL-, CONT3-5	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.
29	EMPH	O	De-emphasis monitor output pin. De-emphasis disc is being played back at H.	
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	CQCK	I	Command input read clock or subcode read input clock from SQOUT pin
58	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	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

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REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CLA-007-010		WINDOW, CASS	25	8A-CLA-024-010		CABI, REAR EZ<EVS, HSS, KS>
2	8A-CLA-005-010		LID, CASS	25	8A-CLA-030-010		CABI, REAR H<HRJ>
3	8A-CLA-006-010		BOX, CASS	26	8Z-CL8-682-010		FF-CABLE, 16P 1.0 180MM
4	8A-CLA-004-010		WINDOW, DISP	27	8Z-CL8-201-010		GUIDE, LCD
5	8A-CLA-001-010		CABI, FRONT<HRJ, HSS>	△	28	87-A80-006-010	AC CORD ASSY HS<HSS>
5	8A-CLA-023-010		CABI, FRONT EZ<EVS, KS>	△	28	87-A80-092-010	AC CORD ASSY, E BLK SUN FAI <EVS, KS>
6	8Z-CL8-209-010		SPR-T, CASS	△	28	87-A80-083-010	AC CORD, HC BLK<HRJ>
7	8Z-CL8-204-010		CUSH, FOOT	△	29	8A-CLA-626-010	PT, EZ ACL-A<EVS, HSS, KS>
8	8A-CLA-010-010		KEY, VOL	△	29	8A-CLA-625-010	PT, H ACL-A<HRJ>
9	8A-CLA-013-010		KEY, TIMER /SLEEP	△	30	8Z-CDB-169-010	PANEL, CD SANYO
10	8A-CLA-008-010		KEY, CONT		31	8Z-CL8-214-010	DMPR, HLDR BE
11	8A-CLA-009-010		KEY, CONT CAP SET		32	84-CD5-215-010	GEAR
12	8A-CLA-015-010		KEY, FUNC		33	84-CD5-216-010	BRACKET
13	8A-CLA-011-010		KEY, GEQ		34	86-NFZ-231-010	DMPR, 70
14	8A-CLA-012-010		KEY, POWER		35	87-064-108-110	HLDR, NC LUTCH
15	8Z-CDB-170-010		BASE, CHUCK		A	87-B10-239-010	QT2+3-8 W/O CR
16	88-CD9-211-210		RING, CHUCK		B	8Z-CL8-220-010	W, 30-0856-01-01-01
17	87-036-368-010		MAGNET		C	87-067-579-010	TAPPING SCREW, BVT2+3-8
18	8A-CLA-002-010		LID, CD		D	87-067-703-010	TAPPING SCREW, BVT2+3-10
19	8A-CLA-014-010		WINDOW, CD		E	87-342-074-010	UT2+2.6-8
20	8Z-CL8-205-010		SPR-T, CD		F	87-571-033-410	TAPPING SCREW, VIT+2-4
21	8A-CLA-003-010		CHAS, CD		G	87-761-097-410	VFT2+3-12 SLOT
22	M8-ZZK-E90-070		DA11T3C		H	87-B10-230-010	BVT2+3-10 W/O SLOT SILVER CR
23	88-CT6-206-010		CUSHION, CD				
24	8Z-CL8-681-010		CONN ASSY, 6P CD MOTOR				

COLOR NAME TABLE

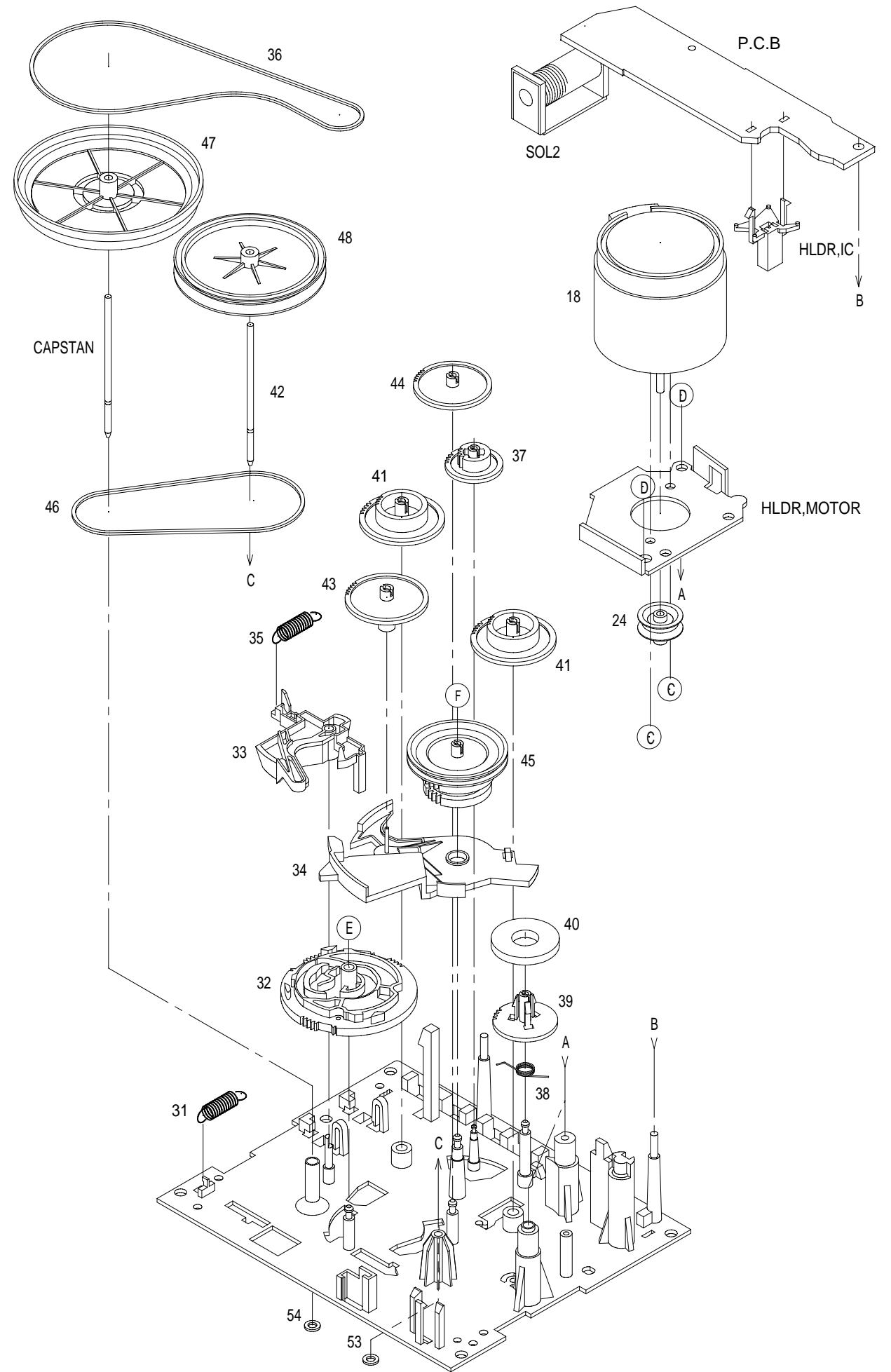
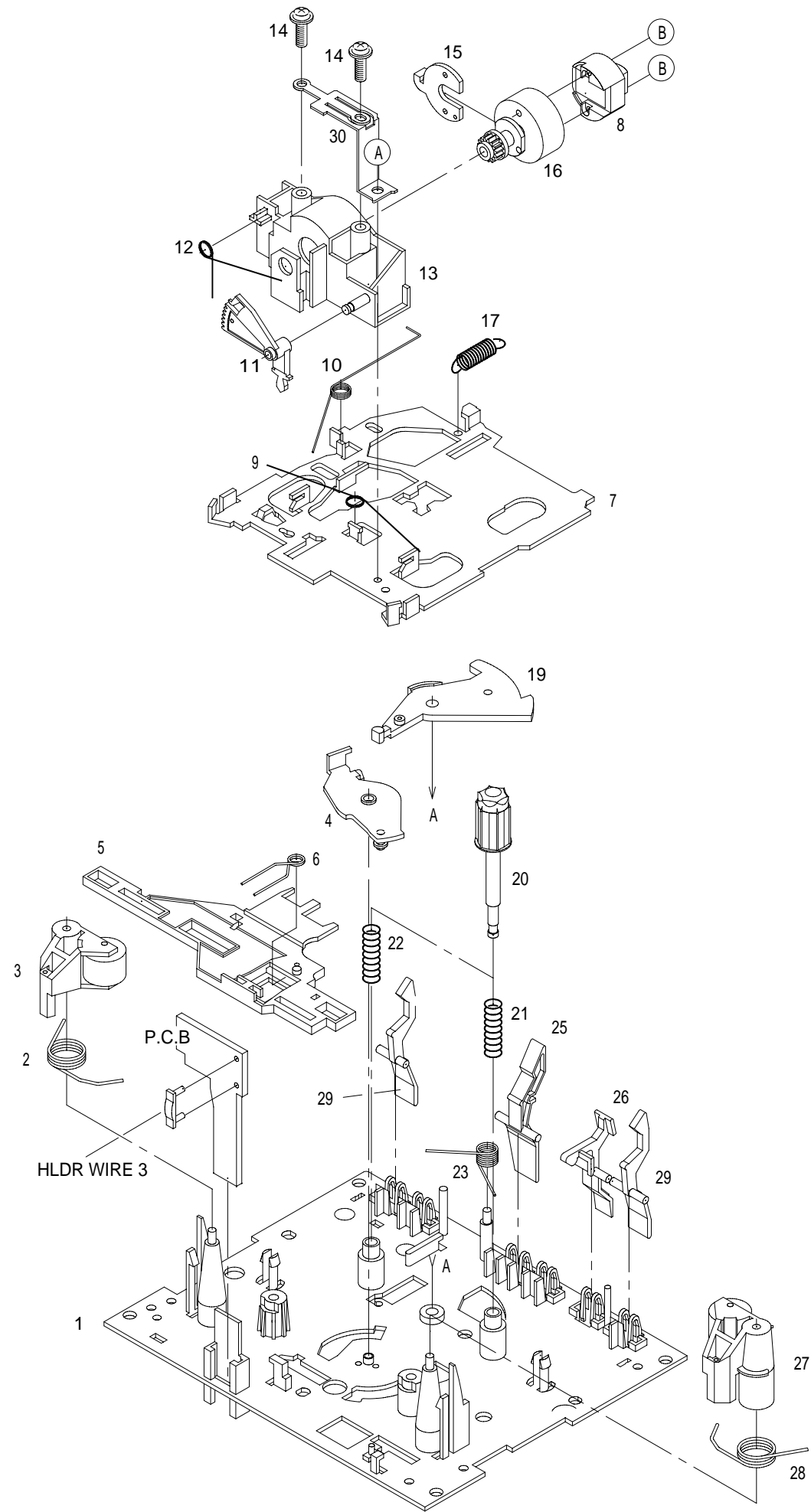
Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent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

TAPE MECHANISM PARTS LIST 1/1

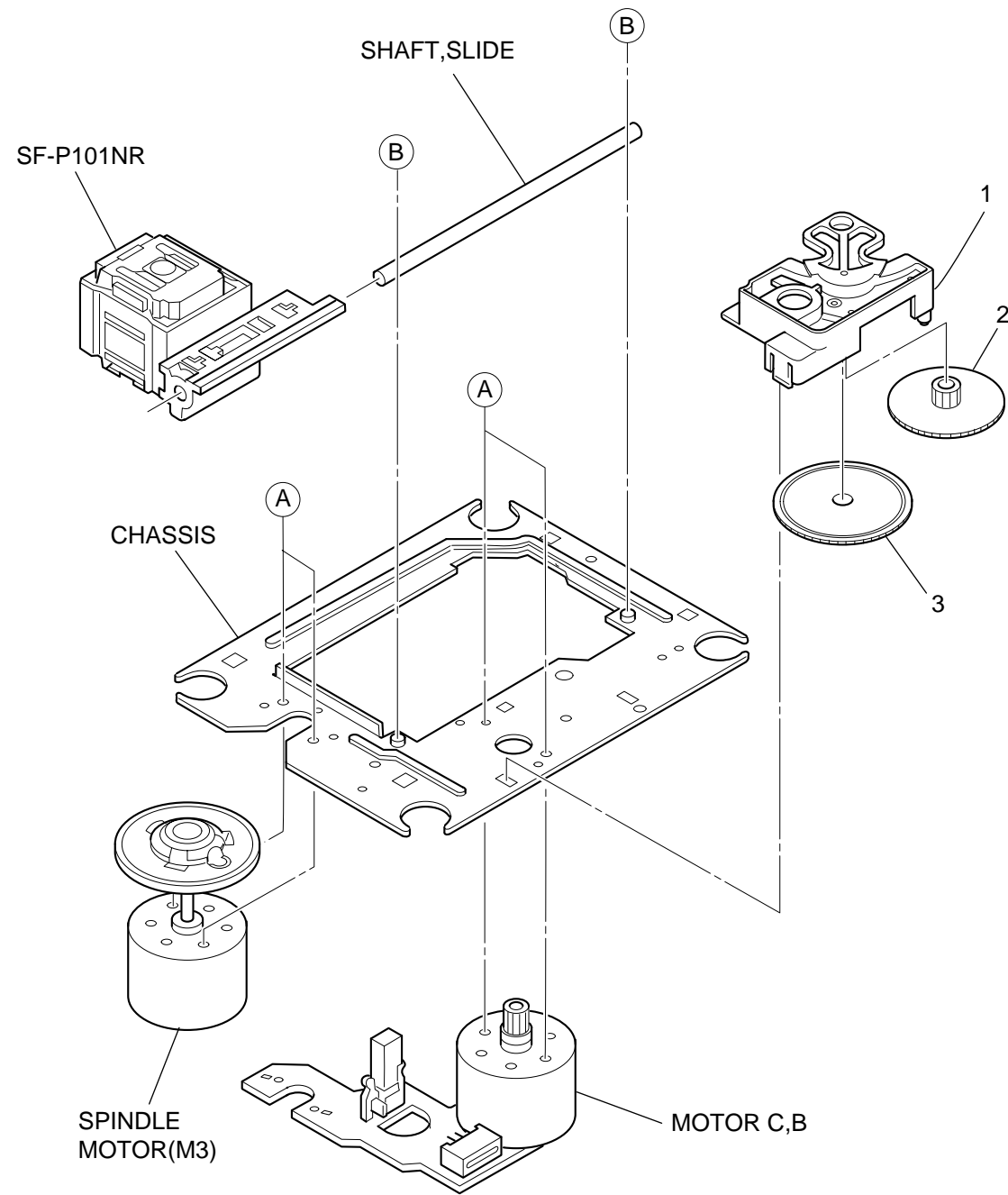
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
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REF.NO	PART.NO.	KANRI NO.	DESCRIPTION	REF.NO	PART.NO.	KANRI NO.	DESCRIPTION
1	82-ZM1-327-310		CHAS ASSY, RM	31	82-ZM1-255-310		SPR-E, LVR DIR
2	82-ZM1-258-210		SPR-T, PINCH L	32	82-ZM1-221-310		GEAR, CAM(*)
3	82-ZM1-341-210		LVR ASSY, PINCH L2	33	82-ZM1-227-310		LVR, TRIG
4	82-ZM1-295-310		PLATE ASSY LINK	34	82-ZM1-224-410		LVR, FR
5	82-ZM1-266-310		LVR, DIR	35	82-ZM1-305-210		SPR-E, TRIG 2
6	82-ZM1-214-010		SPR-T, DIR	36	82-ZM1-340-010		BELT, SBU MAIN2
7	82-ZM1-206-910		CHAS, HEAD	37	82-ZM1-223-010		GEAR, PLAY
8	87-046-399-110		HEAD, PPH YK56R-BS411	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-ZM3-323-110		SPR-T, LINK 3	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	82-ZM1-236-010		CAPSTAN, 2-41.5
13	82-ZM1-207-910		GUIDE, TAPE	43	82-ZM1-225-210		GEAR, FR
14	82-ZM1-283-310		S-SCREW, AZIMUTH	44	82-ZM1-226-010		GEAR, REW
15	82-ZM1-314-110		PLATE, HEAD	45	82-ZM3-333-310		SLIP DISK ASSY 2
16	82-ZM1-208-310		HLDR, HEAD	46	82-ZM1-338-110		BELT, FR 4
17	82-ZM1-218-010		SPR-E, HB	47	82-ZM1-349-110		FLY-WHL, R W
18	87-045-347-010		MOT, SHU2L 70	48	82-ZM1-348-110		FLY-WHL, L W
19	82-ZM1-222-210		LVR, PLAY	A	82-ZM1-315-010		S-SCREW GUIDE TAPE
20	82-ZM1-217-410		REEL TABLE	B	80-ZM6-207-010		V+1.6-7
21	82-ZM1-244-510		SPR-C, BT	C	87-251-070-410		U+2.6-3
22	82-ZM1-285-410		SPR-C, BT L	D	87-741-073-410		UT2+2.6-6 GLD
23	82-ZM1-257-010		SPR-T, CAS	E	87-B10-008-010		W-P, 2.08-8-0.4-SLIP
24	82-ZM1-247-110		PULLEY, MOTOR				
25	82-ZM1-242-010		LVR, CAS				
26	82-ZM1-243-010		LVR, STOP				
27	82-ZM1-344-210		LVR ASSY, PINCH R2				
28	82-ZM1-259-210		SPR-T, PINCH R				
29	82-ZM1-240-110		LVR, REC(*)				
30	82-ZM1-298-010		SPR-P EARTH				

TAPE MECHANISM EXPLODED VIEW 1/1



CD MECHANISM EXPLODED VIEW 1/1

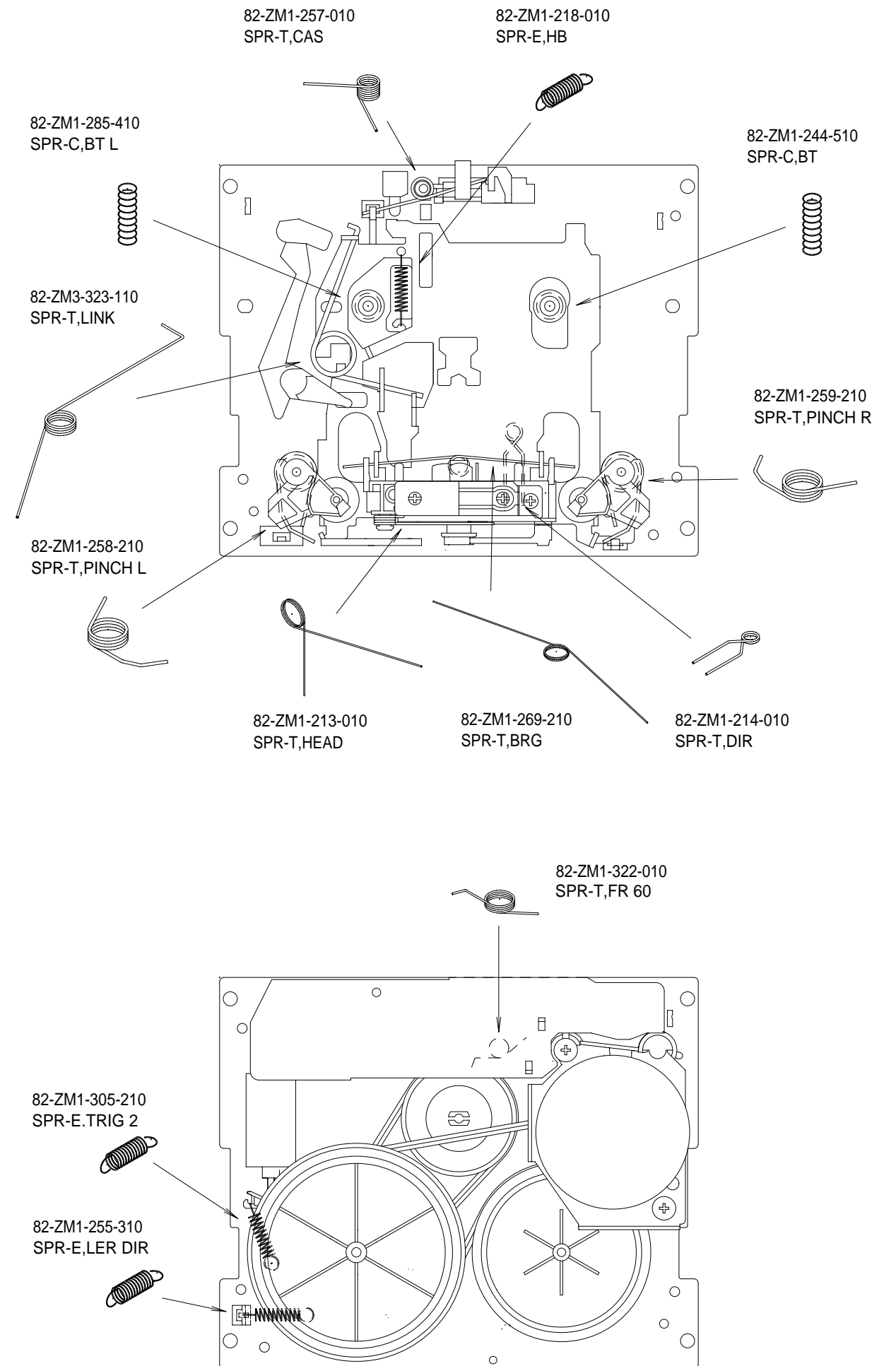


CD MECHANISM PARTS LIST 1/1

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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

SPRING APPLICATION POSITION



SPEAKER PARTS LIST 1/1

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REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CLA-602-010		SPKR, 40HM 8W ACL-A
2	8A-CLA-017-010		CABI, FR SPKR
3	8A-CLA-022-010		CLOTH, SPKR
4	8A-CLA-019-010		FRAME, SPKR
5	86-CL9-214-010		HLDL, CORD(SPKR)
6	8Z-CL8-207-010		HLDL, TRANS
7	8Z-CL8-694-110		CORD, SPKR GRY

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