

SERVICE MANUAL

COMPACT DISC STEREO RADIO
CASSETTE RECORDER

BASIC TAPE MECHANISM : 2ZM-1YR7NC
BASIC CD MECHANISM : 3ZG-3 E2NC

This Service Manual is the "Revision Publishing" and replaces "Simple Manual"
CSD-EL300 (S/M Code No. 09-003-344-1T1)

SPECIFICATIONS

FM tuner section

Tuning range 87.5 MHz to 108 MHz
Antenna Rod antenna

MW tuner section

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

LW tuner section

Tuning range 153 kHz to 288 kHz
Antenna Ferrite bar antenna

Cassette deck section

Track format 4 tracks, 2 channels stereo
Frequency response Normal tape: 50 Hz – 12500 Hz
Recording system AC bias
Heads Recording/playback head × 1,
Erasure head × 1

Compact disc player section

Laser Semiconductor laser ($\lambda = 780 \text{ nm}$)
D-A converter 1 bit dual

General

Speakers 100 mm cone type × 2
Power output 2.5 W + 2.5 W (EIAJ 7 ohms,
T.H.D. 10%, DC)
1.9 W + 1.9 W (DIN 1% Rated
Power, DC)
Output PHONES (stereo minijack)
Power requirements DC 12 V using eight size C (R14)
batteries
230 V AC, 50 Hz
Power consumption 20 W
Dimensions of main unit (W × H × D)
440 × 165 × 225 mm
Weight of main unit 3.8 kg
not including batteries

- 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".

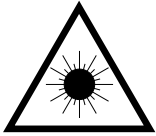
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CH2-906-010		IB,EZ(9L)FM<EVS>
1	8A-CH2-905-010		IB,K(E)FM<KS>
2	87-050-076-010		AC CORD SET ASSY,E
3	87-099-726-010		PLUG,ADPTR CONV(K)<KS>
4	8Z-CK4-962-010		RC UNIT,RC-ZAT04 (VS)

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

WARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvisning, kan användaren utsättas för osynlig 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

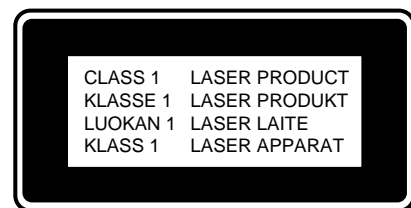
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.

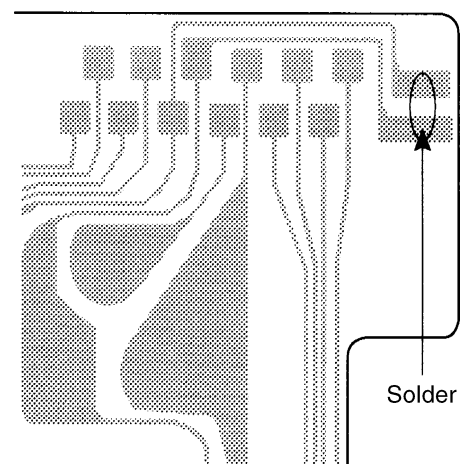


Precaution to replace Optical block (KSS-213F)

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.

PICK-UP Assy P.C.B



ELECTRICAL MAIN PARTS LIST

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REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC				C233	87-010-546-080		CAP, ELECT 0.33-50V
	87-A21-550-010	IC,TA2149N		C234	87-010-546-080		CAP, ELECT 0.33-50V
	87-A21-185-040	C-IC,LC72121M		C235	87-018-209-080		CAP, CER 0.1-50V
	87-A21-090-010	IC,LA4600		C236	87-018-209-080		CAP, CER 0.1-50V
	87-A21-416-040	C-IC,M61500FP		C237	87-010-380-080		CAP, ELECT 47-16V
	87-A21-607-010	IC,NJMI4558LD		C238	87-010-263-080		CAP, ELECT 100-10V
	87-017-915-080	IC,BU4094BCF		C239	87-018-134-080		CAPACITOR,TC-U 0.01-16
	87-A20-446-010	C-IC,LA9241ML		C240	87-018-134-080		CAPACITOR,TC-U 0.01-16
	87-A20-459-010	C-IC,LC78622ED		C241	87-010-401-080		CAP, ELECT 1-50V
	87-A21-093-010	IC,LA6541D		C242	87-010-401-080		CAP, ELECT 1-50V
	8A-CH2-612-010	C-IC,LC867132V-5P07		C243	87-010-401-080		CAP, ELECT 1-50V
	87-A20-911-010	IC,RPM6938		C244	87-010-401-080		CAP, ELECT 1-50V
	87-001-982-010	IC,TA7291S		C245	87-010-401-080		CAP, ELECT 1-50V
				C246	87-010-401-080		CAP, ELECT 1-50V
				C255	87-010-401-080		CAP, ELECT 1-50V
TRANSISTOR				C263	87-018-131-080		CAP, CER 1000P-50V
	89-327-143-080	TR,2SC2714 (0.1W)		C264	87-018-131-080		CAP, CER 1000P-50V
	87-026-447-080	TR,2SC1740S R		C265	87-010-545-080		CAP, ELECT 0.22-50V
	89-111-624-080	TR,2SA1162Y		C266	87-010-545-080		CAP, ELECT 0.22-50V
	87-026-213-080	CHIP-TR,DTC114YK		C271	87-010-221-080		CAP, ELECT 470-10V
	89-503-025-080	CHIP FET,2SK302 GR		C272	87-010-221-080		CAP, ELECT 470-10V
	89-320-011-080	TR,2SC2001 (15W)		C277	87-010-404-080		CAP, ELECT 4.7-50V
	87-026-230-080	CHIP-TR,DTA114YK		C278	87-010-263-080		CAP, ELECT 100-10V
	89-327-125-080	CHIP TR,2SC2712GR		C279	87-010-263-080		CAP, ELECT 100-10V
	89-318-155-080	TR,2SC1815 (0.4W)		C287	87-018-130-080		CAP,TC-U 820P-50 B
	87-A30-090-080	FET,2SK2541		C288	87-018-130-080		CAP,TC-U 820P-50 B
	87-A30-151-080	TR,2SA1993F		C301	87-018-131-080		CAP, CER 1000P-50V
	87-026-610-080	TR,KTC3198GR		C302	87-018-131-080		CAP, CER 1000P-50V
	87-A30-190-080	TR,CC5551		C305	87-010-263-080		CAP, ELECT 100-10V
	87-026-502-080	DTC144TS		C306	87-010-263-080		CAP, ELECT 100-10V
	87-A30-154-080	TR,RT1N441S		C307	87-018-203-080		CAP, CER 8200P-16V
	87-026-463-080	TR,2SA933S (0.3W)		C308	87-018-203-080		CAP, CER 8200P-16V
	89-109-332-380	TR,2SA933RS		C311	87-010-546-080		CAP, ELECT 0.33-50V
	89-113-184-080	TR,2SA1318T		C312	87-010-546-080		CAP, ELECT 0.33-50V
	87-026-464-080	TR,DTC114TS (0.3W)		C313	87-018-201-080		CAP,TC-U 5600P-16 X
	87-026-218-080	TR,DTC144ES (0.2W)		C314	87-018-201-080		CAP,TC-U 5600P-16 X
	89-112-965-080	TR,2SA1296 (0.75W)		C321	87-018-205-080		CAP, CERA-SOL 0.022
	87-026-291-080	TR,DTC124XS		C323	87-018-041-080		CAP,TC-S 560P-50 B
	89-213-702-010	TR,2SB1370 (1.8W)		C324	87-018-041-080		CAP,TC-S 560P-50 B
	87-026-462-080	TR,2SC1740 S(RS 0.3W)		C331	87-018-126-080		CAP,TC-U 390P-50 B
	87-026-237-080	CHIP-TR,DTC124XK		C332	87-018-126-080		CAP,TC-U 390P-50 B
	87-A30-075-080	C-TR,2SA1235F		C333	87-018-128-080		CAP, CERA-SOL SS 560P
	87-026-235-080	CHIP-TR,DTC114EK		C334	87-018-131-080		CAP, CER 1000P-50V
	87-026-245-080	TR,DTC114ES		C335	87-018-201-080		CAP,TC-U 5600P-16 X
	89-109-521-080	TR,2SA952 (0.6W)		C336	87-018-134-080		CAPACITOR,TC-U 0.01-16
				C337	87-018-198-080		CAP,TC-U 2700P-16 X
				C338	87-018-198-080		CAP,TC-U 2700P-16 X
DIODE				C339	87-018-198-080		CAP,TC-U 2700P-16 X
	87-070-345-080	DIODE,IN4148		C340	87-010-382-080		CAP, ELECT 22-25V
	87-A40-616-070	VARI-CAP,SVC384(S/T)		C341	87-018-205-080		CAP, CERA-SOL 0.022
	87-A40-128-080	C-VARI-CAP,HVU202A		C342	87-018-123-080		CAP, CER 220P-50V
	87-A40-574-080	ZENER,MTZJ3.0A		C343	87-018-199-080		CAP, CER 3300P
	87-020-465-080	DIODE,1SS133 (110MA)		C345	87-018-131-080		CAP, CER 1000P-50V
	87-020-465-010	DIODE,1SS133 (110MA)		C346	87-018-131-080		CAP, CER 1000P-50V
	87-001-936-080	ZENER,HZS7A3L		C347	87-010-374-080		CAP, ELECT 47-10V
	87-017-149-080	ZENER,HZS6A2L		C348	87-018-131-080		CAP, CER 1000P-50V
	87-017-161-080	ZENER,HZS7C2L		C355	87-A11-131-080		CAP,TC U 8200P-50 K B
	87-017-148-080	ZENER,HZS6A1L		C356	87-A11-131-080		CAP,TC U 8200P-50 K B
	87-017-144-080	ZENER,HZS24 2		C363	87-010-405-080		CAP, ELECT 10-50V
	87-001-142-080	DIODE,1SS294 (100MA)		C364	87-010-405-080		CAP, ELECT 10-50V
	87-020-125-080	DIODE,1SS181 (100MA)		C367	87-018-043-080		CAP,TC-S 820P-50 B
	87-020-027-080	CHIP-DIODE 1SS184		C368	87-018-043-080		CAP,TC-S 820P-50 B
	87-A40-465-090	DIODE,FR202		C369	87-018-118-080		CAP,TC-U 82P-50 B
				C370	87-018-118-080		CAP,TC-U 82P-50 B
				C373	87-010-401-080		CAP, ELECT 1-50V
MAIN C.B				C374	87-010-401-080		CAP, ELECT 1-50V
C211	87-010-405-080	CAP, ELECT 10-50V		C382	87-010-401-080		CAP, ELECT 1-50V
C212	87-010-405-080	CAP, ELECT 10-50V		C383	87-010-248-080		CAP, ELECT 220-10V
C220	87-010-406-080	CAP, ELECT 22-50		C384	87-010-374-080		CAP, ELECT 47-10V
C229	87-018-125-080	CAP, CER 330P-50V		C387	87-018-123-080		CAP, CER 220P-50V
C230	87-018-134-080	CAPACITOR,TC-U 0.01-16					

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C513	87-018-134-080		CAPACITOR,TC-U 0.01-16	C470	87-010-544-080		CAP, ELECT 0.1-50V
C514	87-010-248-080		CAP, ELECT 220-10V	C475	87-018-134-080		CAPACITOR,TC-U 0.01-16
C520	87-010-384-080		CAP, ELECT 100-25V	C476	87-A10-102-080		CAP,E 1000-10 REA
C521	87-016-495-000		CAP,E 3300-25 M SMG	C477	87-018-134-080		CAPACITOR,TC-U 0.01-16
C526	87-010-404-080		CAP, ELECT 4.7-50V	C478	87-010-263-080		CAP, ELECT 100-10V
C527	87-010-401-080		CAP, ELECT 1-50V	C479	87-018-134-080		CAPACITOR,TC-U 0.01-16
C528	87-010-221-080		CAP, ELECT 470-10V	C480	87-010-221-080		CAP, ELECT 470-10V
C529	87-010-263-080		CAP, ELECT 100-10V	C481	87-010-405-080		CAP, ELECT 10-50V
C530	87-010-248-080		CAP, ELECT 220-10V	C482	87-010-405-080		CAP, ELECT 10-50V
C531	87-010-265-080		CAP, ELECT 33-16V	C483	87-018-123-080		CAP, CER 220P-50V
C543	87-010-401-080		CAP, ELECT 1-50V	C484	87-018-123-080		CAP, CER 220P-50V
CN201	87-A60-054-010		CONN,14P V 9604S-14C	C487	87-018-134-080		CAPACITOR,TC-U 0.01-16
CN202	87-A60-058-010		CONN,10P V 9604S-10C	C489	87-018-209-080		CAP, CER 0.1-50V
CN203	87-049-469-010		CONN,4P V	C490	87-018-209-080		CAP, CER 0.1-50V
CN301	87-A60-112-010		CONN,7P V S2M-7W	C491	87-018-134-080		CAPACITOR,TC-U 0.01-16
CN501	87-099-827-010		CONN,3P S2M-3W	C492	87-010-221-080		CAP, ELECT 470-10V
CNA1	8A-CH2-631-010		CONN ASSY,6P TU-AF	C493	87-018-119-080		CAP, CER 100P-50V
J201	87-009-216-010		JACK, DIA 3.5	C494	87-018-134-080		CAPACITOR,TC-U 0.01-16
L301	87-003-131-080		COIL, 10MH	C501	87-018-119-080		CAP, CER 100P-50V
L331	87-007-342-010		COIL,OSC 85K BIAS	C502	87-018-119-080		CAP, CER 100P-50V
CD C.B				C503	87-018-119-080		CAP, CER 100P-50V
C401	87-010-403-080		CAP, ELECT 3.3-50V	C504	87-018-119-080		CAP, CER 100P-50V
C402	87-018-134-080		CAPACITOR,TC-U 0.01-16	C505	87-018-119-080		CAP, CER 100P-50V
C403	87-010-263-080		CAP, ELECT 100-10V	C506	87-018-119-080		CAP, CER 100P-50V
C404	87-010-248-080		CAP, ELECT 220-10V	C901	87-018-134-080		CAPACITOR,TC-U 0.01-16
C405	87-018-134-080		CAPACITOR,TC-U 0.01-16	C902	87-010-263-080		CAP, ELECT 100-10V
C406	87-010-374-080		CAP, ELECT 47-10V	C903	87-018-209-080		CAP, CER 0.1-50V
C407	87-018-131-080		CAP, CER 1000P-50V	CN401	87-A60-424-010		CONN,16P V TOC-B
C409	87-010-248-080		CAP, ELECT 220-10V	CN402	87-A60-061-010		CONN,06P V 9604S-06C
C410	87-010-263-080		CAP, ELECT 100-10V	CN403	87-A60-062-010		CONN,05P V 9604S-05C
C412	87-010-401-080		CAP, ELECT 1-50V	L401	87-003-102-080		COIL, 10UH
C414	87-010-405-080		CAP, ELECT 10-50V	X401	81-592-641-010		VIB,CER 16.93MHZ
C416	87-010-545-080		CAP, ELECT 0.22-50V	TU C.B			
C417	87-018-125-080		CAP, CER 330P-50V	C1	87-010-314-080		C-CAP,S 22P-50V
C425	87-018-129-080		CAP, CER 680P-50V	C2	87-010-316-080		C-CAP,S 33P-50 CH
C429	87-018-133-080		CAPACITOR,CER 4700P-16V	C3	87-010-314-080		C-CAP,S 22P-50V
C430	87-018-123-080		CAP, CER 220P-50V	C5	87-012-360-080		CAP, CER 1-10
C431	87-010-545-080		CAP, ELECT 0.22-50V	C7	87-014-049-080		CAP,PP 470P-100 J
C432	87-010-374-080		CAP, ELECT 47-10V	C8	87-012-349-080		C-CAP,S 1000P-50 CH
C433	87-010-401-080		CAP, ELECT 1-50V	C10	87-010-197-080		CAP, CHIP 0.01 DM
C434	87-018-199-080		CAP, CER 3300P	C11	87-010-197-080		CAP, CHIP 0.01 DM
C435	87-018-134-080		CAPACITOR,TC-U 0.01-16	C12	87-010-197-080		CAP, CHIP 0.01 DM
C436	87-010-374-080		CAP, ELECT 47-10V	C13	87-010-150-080		C-CAP,S 6P-50 CH
C437	87-010-404-080		CAP, ELECT 4.7-50V	C14	87-010-303-080		C-CAP,S 330P-50CH
C438	87-018-209-080		CAP, CER 0.1-50V	C15	87-010-178-080		CHIP CAP 1000P
C439	87-018-131-080		CAP, CER 1000P-50V	C16	87-010-374-080		CAP, ELECT 47-10V
C440	87-018-139-080		CAP,TC-U 1P-50 CH	C17	87-010-198-080		CAP, CHIP 0.022
C442	87-018-149-080		CAP,TC-U 15P-50 CH	C18	87-015-835-080		C-CAP,0.047 D
C443	87-018-209-080		CAP, CER 0.1-50V	C19	87-010-263-080		CAP, ELECT 100-10V
C444	87-018-134-080		CAPACITOR,TC-U 0.01-16	C20	87-010-404-080		CAP, ELECT 4.7-50V
C445	87-018-209-080		CAP, CER 0.1-50V	C21	87-010-197-080		CAP, CHIP 0.01 DM
C446	87-018-209-080		CAP, CER 0.1-50V	C22	87-010-197-080		CAP, CHIP 0.01 DM
C447	87-018-209-080		CAP, CER 0.1-50V	C23	87-010-197-080		CAP, CHIP 0.01 DM
C448	87-018-111-080		CAP, CERA-SOL SS 27P	C24	87-010-303-080		C-CAP,S 330P-50CH
C450	87-018-127-080		CAP, CER 470P-50V	C25	87-016-460-080		C-CAP,S 0.22-16 B
C451	87-018-123-080		CAP, CER 220P-50V	C27	87-A11-067-080		C-CAP,S 1-10 K B
C455	87-010-263-080		CAP, ELECT 100-10V	C28	87-016-669-080		C-CAP,S 0.1-25 K B
C457	87-018-113-080		CAP, CER 33P-50V	C29	87-016-669-080		C-CAP,S 0.1-25 K B
C458	87-018-113-080		CAP, CER 33P-50V	C30	87-010-213-080		C-CAP,S 0.015-50 B
C459	87-010-263-080		CAP, ELECT 100-10V	C31	87-010-213-080		C-CAP,S 0.015-50 B
C460	87-018-209-080		CAP, CER 0.1-50V	C33	87-012-358-080		C-CAP,S 0.47-10 F Z
C461	87-018-209-080		CAP, CER 0.1-50V	C34	87-012-358-080		C-CAP,S 0.47-10 F Z
C462	87-010-248-080		CAP, ELECT 220-10V	C35	87-015-819-080		CAPACITOR,0.01
C465	87-010-404-080		CAP, ELECT 4.7-50V	C36	87-010-263-080		CAP, ELECT 100-10V
C466	87-018-209-080		CAP, CER 0.1-50V	C37	87-010-197-080		CAP, CHIP 0.01 DM
C467	87-010-263-080		CAP, ELECT 100-10V	C38	87-010-374-080		CAP, ELECT 47-10V
C468	87-018-119-080		CAP, CER 100P-50V	C39	87-010-404-080		CAP, ELECT 4.7-50V
C469	87-018-121-080		CAP, CER 150P-50V	C40	87-010-197-080		CAP, CHIP 0.01 DM

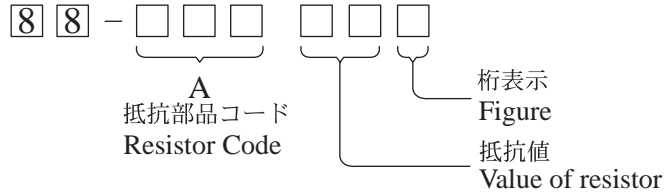
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C41	87-010-178-080		CHIP CAP 1000P	C625	87-010-322-080		C-CAP,S 100P-50 CH
C42	87-010-178-080		CHIP CAP 1000P	C626	87-010-197-080		CAP, CHIP 0.01 DM
C43	87-010-178-080		CHIP CAP 1000P	C627	87-010-196-080		CHIP CAPACITOR,0.1-25
C44	87-010-311-080		CAP 12P	C628	87-015-677-080		CAP,E 100-6.3 7L
C45	87-010-312-080		C-CAP,S 15P-50 CH<EVS>	C628	87-015-819-080		CAPACITOR,0.01
C46	87-010-197-080		CAP, CHIP 0.01 DM	C629	87-010-318-080		C-CAP,S 47P-50 CH
C47	87-010-197-080		CAP, CHIP 0.01 DM	C630	87-010-178-080		CHIP CAP 1000P
C48	87-010-197-080		CAP, CHIP 0.01 DM	C631	87-010-322-080		C-CAP,S 100P-50 CH
C49	87-012-140-080		CAP 470P	C632	87-010-318-080		C-CAP,S 47P-50 CH
C50	87-010-197-080		CAP, CHIP 0.01 DM	C633	87-010-322-080		C-CAP,S 100P-50 CH
C51	87-010-316-080		C-CAP,S 33P-50 CH	C634	87-015-677-080		CAP,E 100-6.3 7L
C52	87-010-197-080		CAP, CHIP 0.01 DM	C635	87-010-197-080		CAP, CHIP 0.01 DM
C53	87-010-197-080		CAP, CHIP 0.01 DM	CN601	87-099-203-010		CONN,10P 6216 H
C54	87-014-055-080		CAP,PP 820P-100 J	CN602	87-099-031-010		CONN,14P 6216 H
C55	87-010-197-080		CAP, CHIP 0.01 DM	CNA602	8A-CH2-625-010		CONN ASSY,9P TA-ME
C71	87-010-197-080		CAP, CHIP 0.01 DM	D601	87-A40-162-010		LED,L-1154SRD
C72	87-010-263-080		CAP, ELECT 100-10V	L601	87-003-171-010		COIL,15UH TROIDAL
C73	87-010-197-080		CAP, CHIP 0.01 DM	LCD601	8A-CH2-611-010		LCD,ATW4213
C75	87-010-197-080		CAP, CHIP 0.01 DM	AR668	87-029-124-010		RES,FUSE 2.2-1/4
C92	87-010-197-080		CAP, CHIP 0.01 DM	S381	87-A91-636-010		SW,RTRY 1-2-24 EVEGALF2024B
C93	87-010-197-080		CAP, CHIP 0.01 DM	SW601	87-A90-095-080		SW,TACT EVQ11G04M
CF1	87-A91-094-010		FLTR,CDA10.7 MG80A	SW602	87-A90-095-080		SW,TACT EVQ11G04M
CF2	87-008-261-010		FILTER, SFE10.7MA5-A	SW603	87-A90-095-080		SW,TACT EVQ11G04M
CF3	87-008-261-010		FILTER, SFE10.7MA5-A	SW604	87-A90-095-080		SW,TACT EVQ11G04M
CN2	87-099-854-010		CONN,6P S2M-6W	SW605	87-A90-095-080		SW,TACT EVQ11G04M
CN3	87-A60-110-010		CONN,4P V S2M-4W	SW606	87-A90-095-080		SW,TACT EVQ11G04M
HLD1	88-CD6-661-010		HLD,ANT	SW607	87-A90-095-080		SW,TACT EVQ11G04M
HLD2	88-CD6-661-010		HLD,ANT	SW608	87-A90-095-080		SW,TACT EVQ11G04M
L2	87-A50-560-010		COIL,FM BFF(ACD)	SW609	87-A90-095-080		SW,TACT EVQ11G04M
L3	8A-CH4-671-010		BAR-ANT,MW/LW 3B-ACH(COI)	SW610	87-A90-095-080		SW,TACT EVQ11G04M
L4	87-A50-420-010		COIL,MW OSC(SYN)	SW612	87-A90-095-080		SW,TACT EVQ11G04M
L5	87-A50-566-010		COIL,FM RF EX(ACH)	SW613	87-A90-095-080		SW,TACT EVQ11G04M
L6	87-A50-567-010		COIL,FM OSC(ACH)	SW614	87-A90-095-080		SW,TACT EVQ11G04M
L7	87-A91-308-010		FLTR,PCFAZH- 450T (TOK)	SW615	87-A90-095-080		SW,TACT EVQ11G04M
L8	87-005-849-080		COIL,10UH(CECS)	SW616	87-A90-095-080		SW,TACT EVQ11G04M
L51	87-A50-421-010		COIL,LW OSC(SYN)	SW617	87-A90-095-080		SW,TACT EVQ11G04M
TC1	87-011-254-080		TRIMER,20P LAR	SW618	87-A90-095-080		SW,TACT EVQ11G04M
TC51	87-A91-659-010		TRIMMER,50P 4.0X4.5 ECRL	SW619	87-A90-095-080		SW,TACT EVQ11G04M
X1	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309	X601	87-030-273-010		VIB,XTAL 32.768K5PPM
				X602	87-A70-070-080		VIB,CER 5.76MHZ CRHF
FRONT C.B				PWR C.B			
C601	87-010-263-080		CAP, ELECT 100-10V	C701	87-018-205-080		CAP, CERA-SOL 0.022
C601	87-010-555-040		CAP,E 100-10 GAS	C702	87-018-205-080		CAP, CERA-SOL 0.022
C602	87-010-197-080		CAP, CHIP 0.01 DM	C703	87-018-205-080		CAP, CERA-SOL 0.022
C603	87-015-696-080		CAP,E 2.2-50 7L	C704	87-018-205-080		CAP, CERA-SOL 0.022
C603	87-010-495-040		CAP,E 2.2-50 GAS	AF701	87-035-190-010		FUSE, 2AT
C604	87-010-754-080		CAP,E220-10 SRA 7L	FC701	87-A90-160-080		FUSE CLAMP,FC 51F
C605	87-010-196-080		CHIP CAPACITOR,0.1-25	FC702	87-A90-160-080		FUSE CLAMP,FC 51F
C606	87-015-696-080		CAP,E 2.2-50 7L				
C606	87-010-495-040		CAP,E 2.2-50 GAS				
C607	87-015-694-080		CAP,E 0.47-50 7L				
				LED C.B			
C607	87-010-493-040		CAP,E 0.47-50 GAS	CNA601	8A-CH2-624-010		CONN ASSY,4P FR-TU
C608	87-010-196-080		CHIP CAPACITOR,0.1-25	D651	87-A40-161-010		LED,L-1154SGD
C609	87-010-313-080		CAP, CHIP 18P	D652	87-A40-161-010		LED,L-1154SGD
C610	87-010-314-080		C-CAP,S 22P-50V	D653	87-A40-161-010		LED,L-1154SGD
C611	87-010-317-080		C-CAP,S 39P-50 CH	D654	87-A40-161-010		LED,L-1154SGD
C612	87-010-317-080		C-CAP,S 39P-50 CH	D655	87-A40-161-010		LED,L-1154SGD
C613	87-010-312-080		C-CAP,S 15P-50 CH	D656	87-A40-161-010		LED,L-1154SGD
C614	87-010-754-080		CAP,E220-10 SRA 7L	D657	87-A40-161-010		LED,L-1154SGD
C616	87-010-322-080		C-CAP,S 100P-50 CH	D658	87-A40-161-010		LED,L-1154SGD
C617	87-010-322-080		C-CAP,S 100P-50 CH	D659	87-A40-161-010		LED,L-1154SGD
C618	87-010-197-080		CAP, CHIP 0.01 DM	D660	87-A40-161-010		LED,L-1154SGD
C619	87-010-197-080		CAP, CHIP 0.01 DM				
C620	87-018-044-080		CAP,TC-S 1000P-50 B				
C620	87-010-178-080		CHIP CAP 1000P				
C621	87-010-405-080		CAP, ELECT 10-50V				
				BATT C.B			
C621	87-010-405-080		CAP, ELECT 10-50V				
C622	87-012-154-080		C-CAP,S 150P-50 CH				
C623	87-012-154-080		C-CAP,S 150P-50 CH				

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

○チップ抵抗部品コード/CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

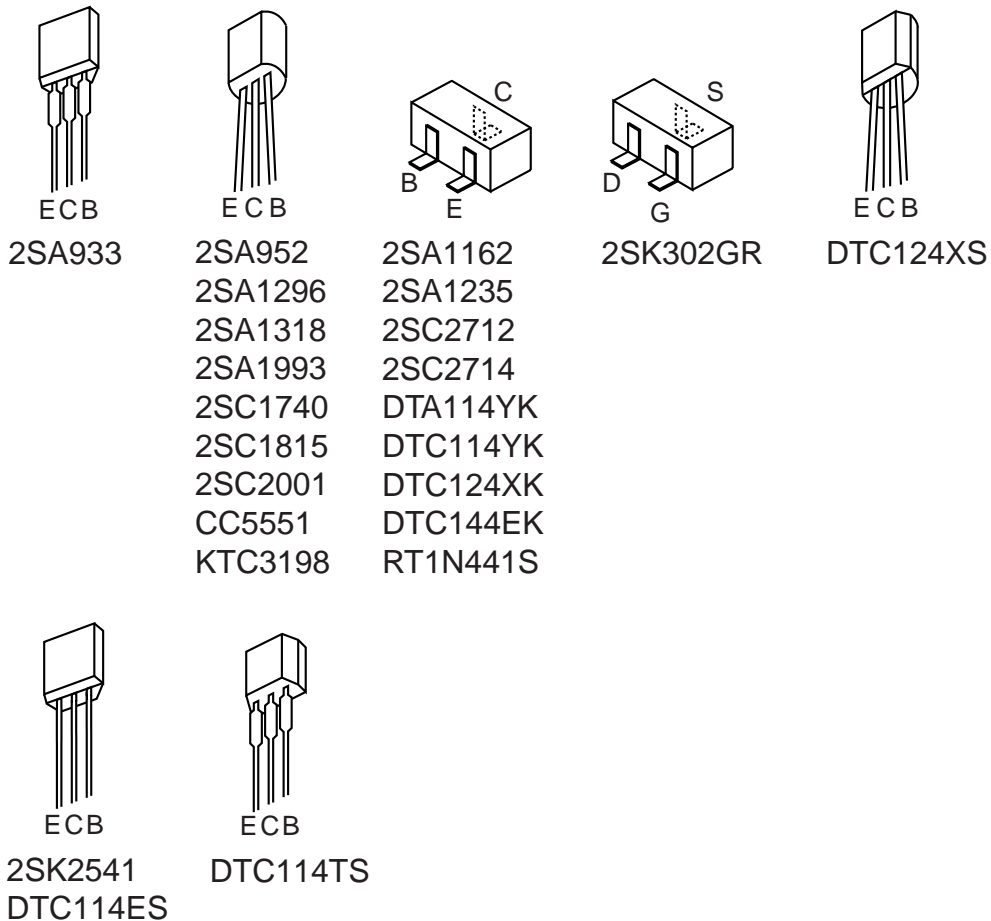
Chip Resistor Part Coding



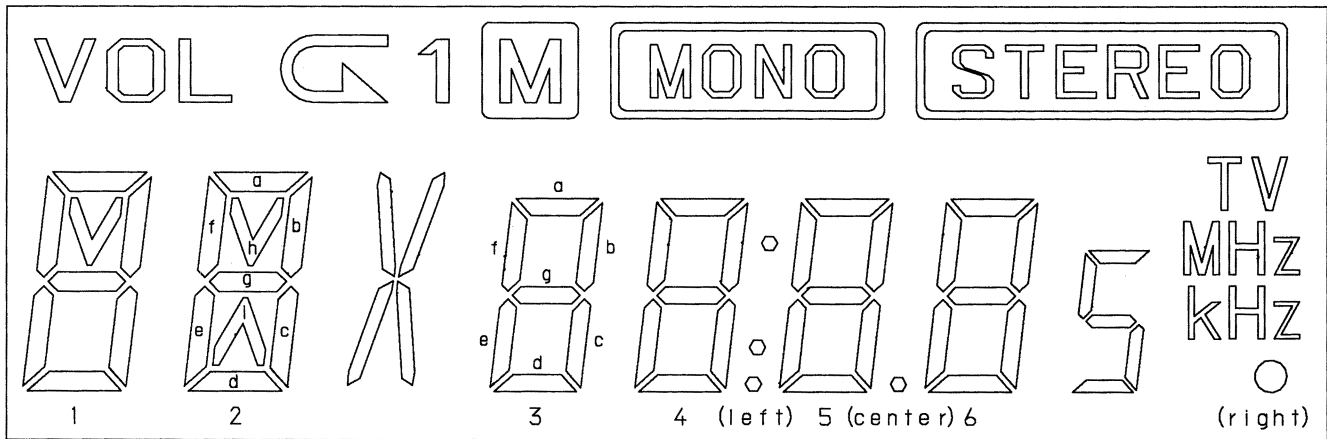
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法/Dimensions (mm)			抵抗コード : A Resistor Code : A	
				外形/Form	L	W		t
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION

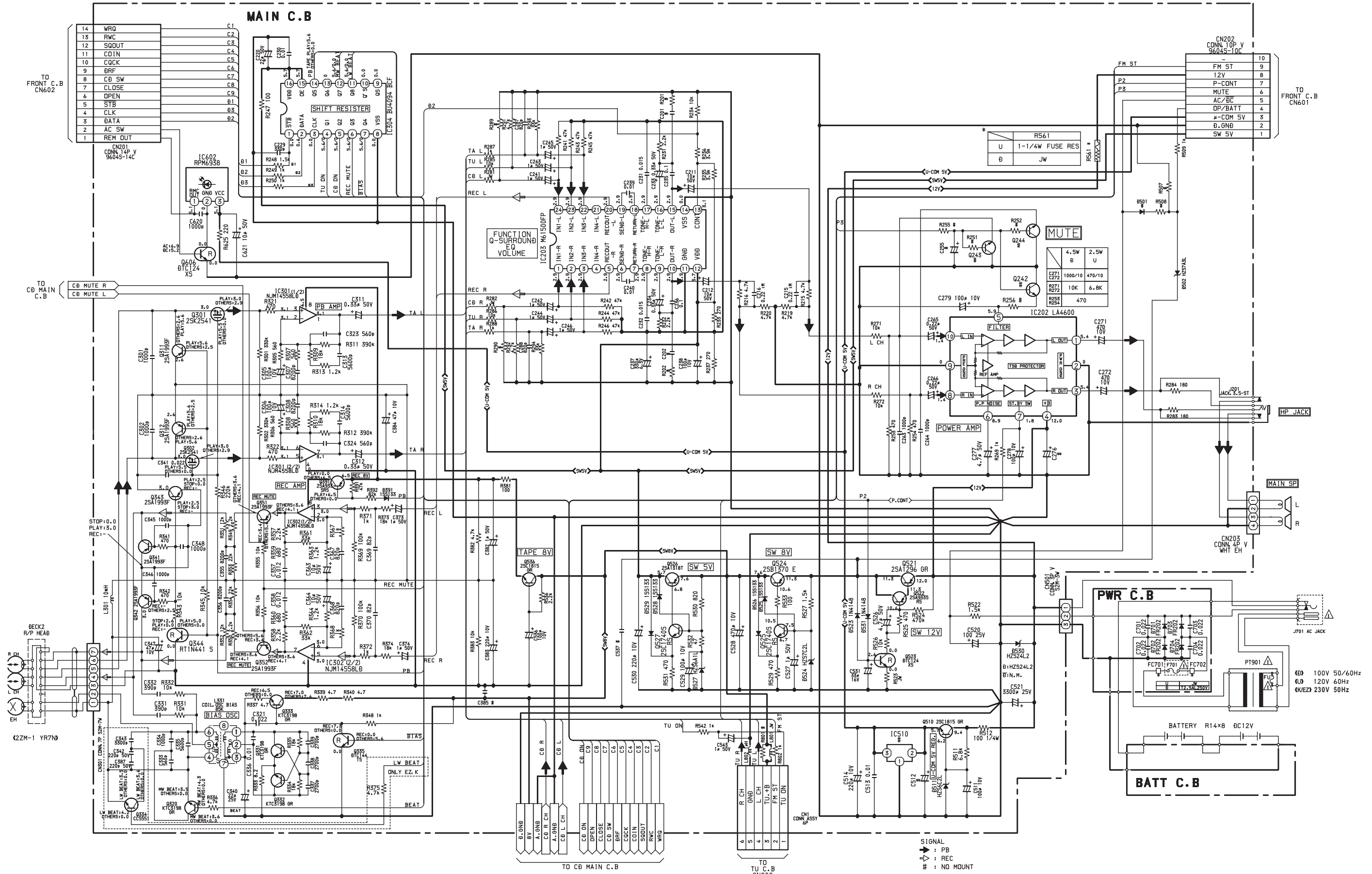


LCD DISPLAY
LCD, AIW4213

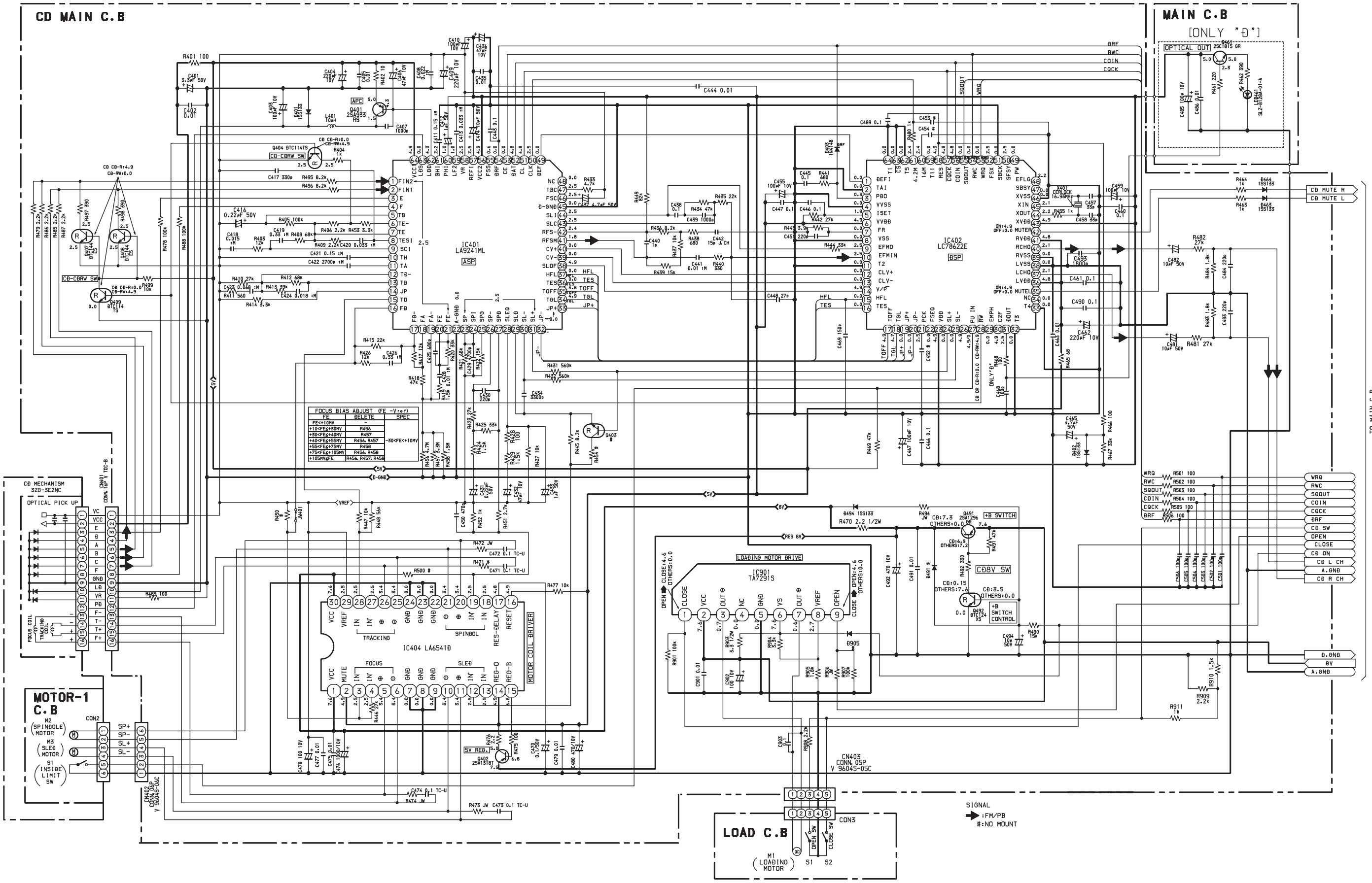


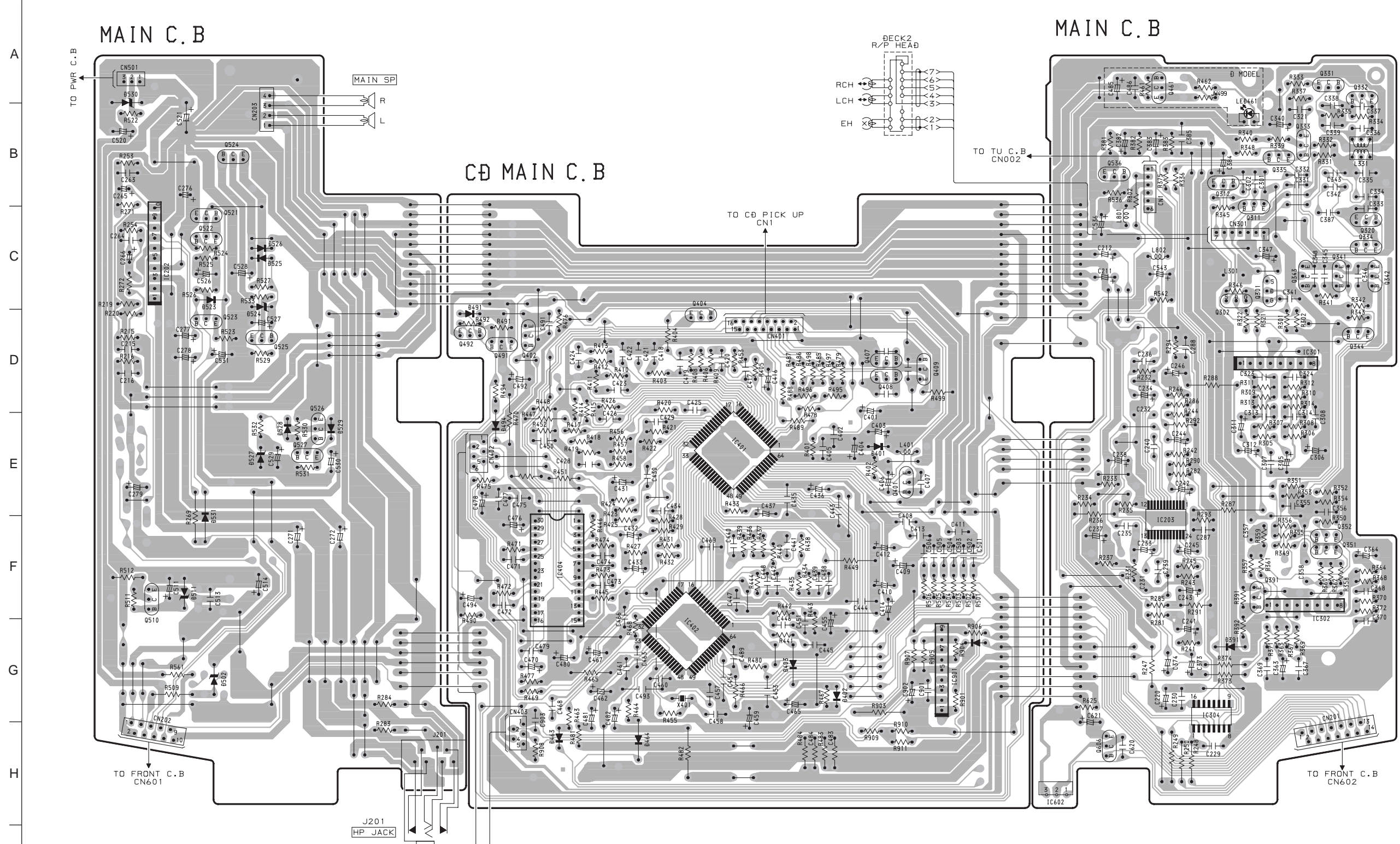
NO.	COM. 1	COM. 2	COM. 3
1	2b	2c	2d
2	1b	1c	1d
3	1a	1f	1e
4	1h	1g	VOL
5	2a	2f	2e
6	2h	2g	2i
7	3f	3e	G
8	3a	3g	3d
9	3b	3c	1
10	4f	4e	M
11	4a	4g	4d
12	4b	4c	X
13	•	• (left)	MONO
14	5f	5e	• (right)
15	5a	5g	5d
16	5b	5c	• (center)
17	6f	6e	STEREO
18	6a	6g	6d
19	6b	6c	5
20	TV	MHz	kHz
21	COM. 1		
22		COM. 2	
23			COM. 3

SCHEMATIC DIAGRAM-1 (MAIN)

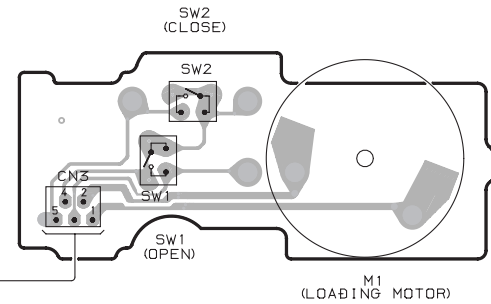


SCHEMATIC DIAGRAM-2 (CD MAIN)

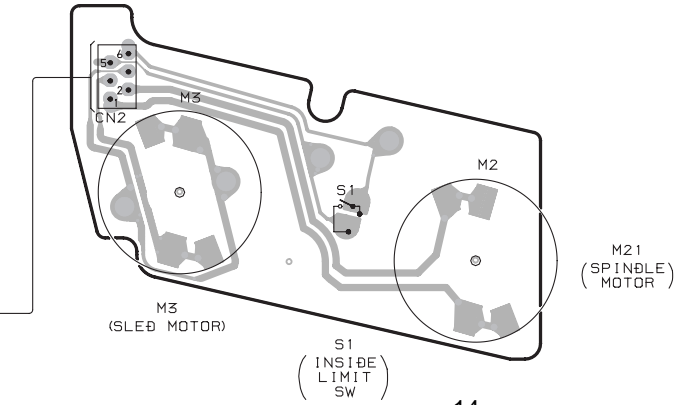




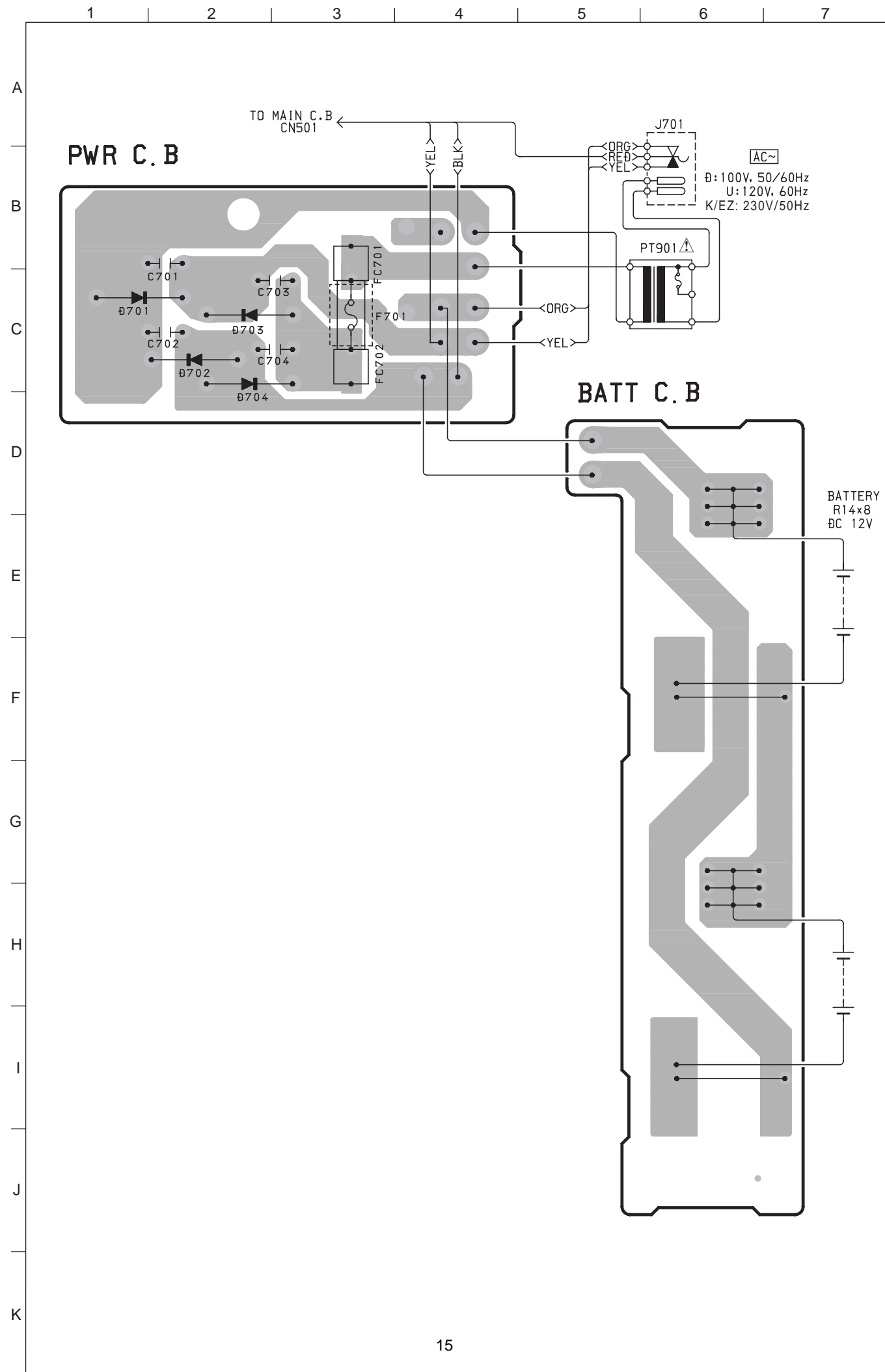
LOAD C.B.



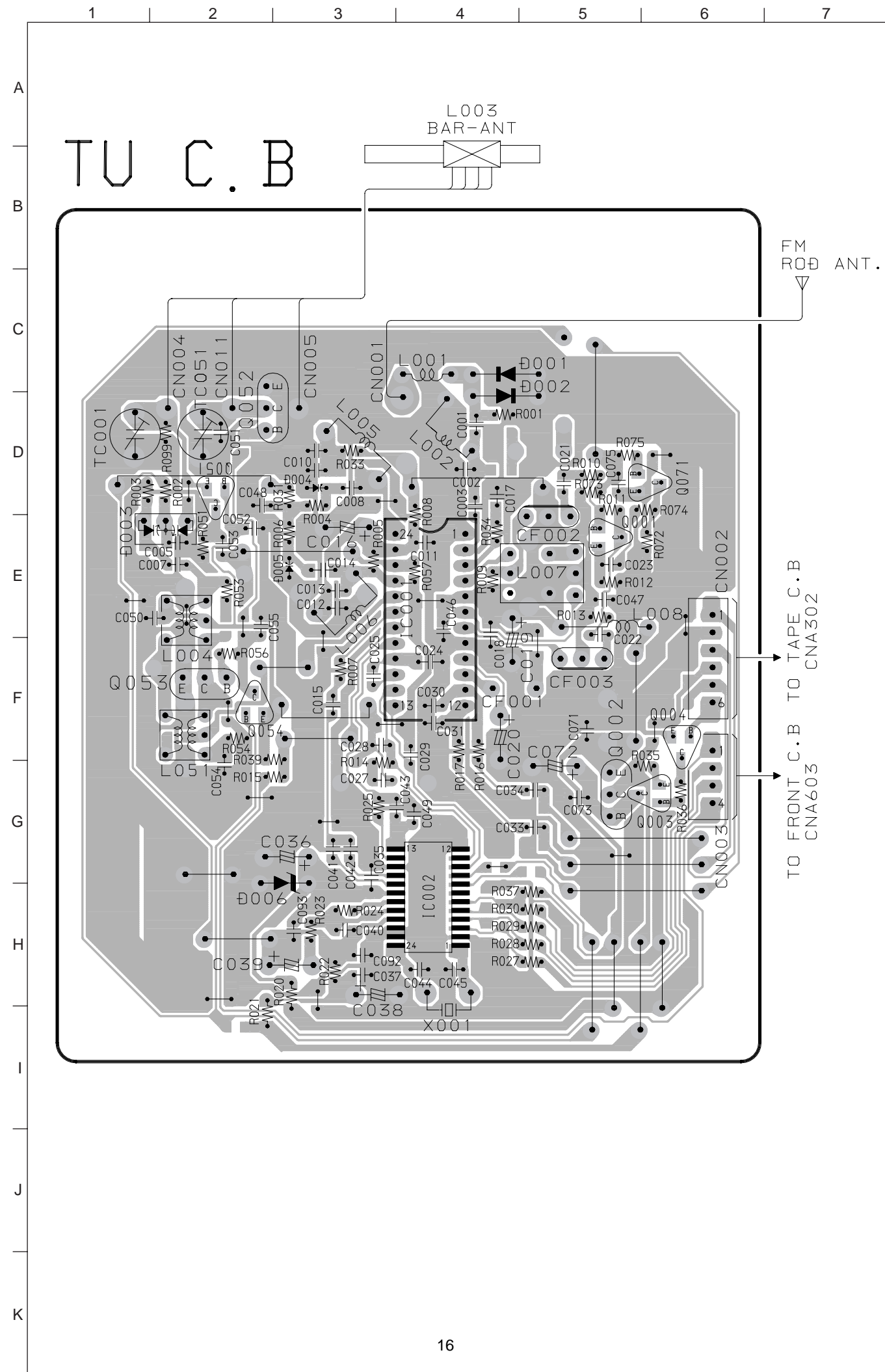
MOTOR-1 C.B.



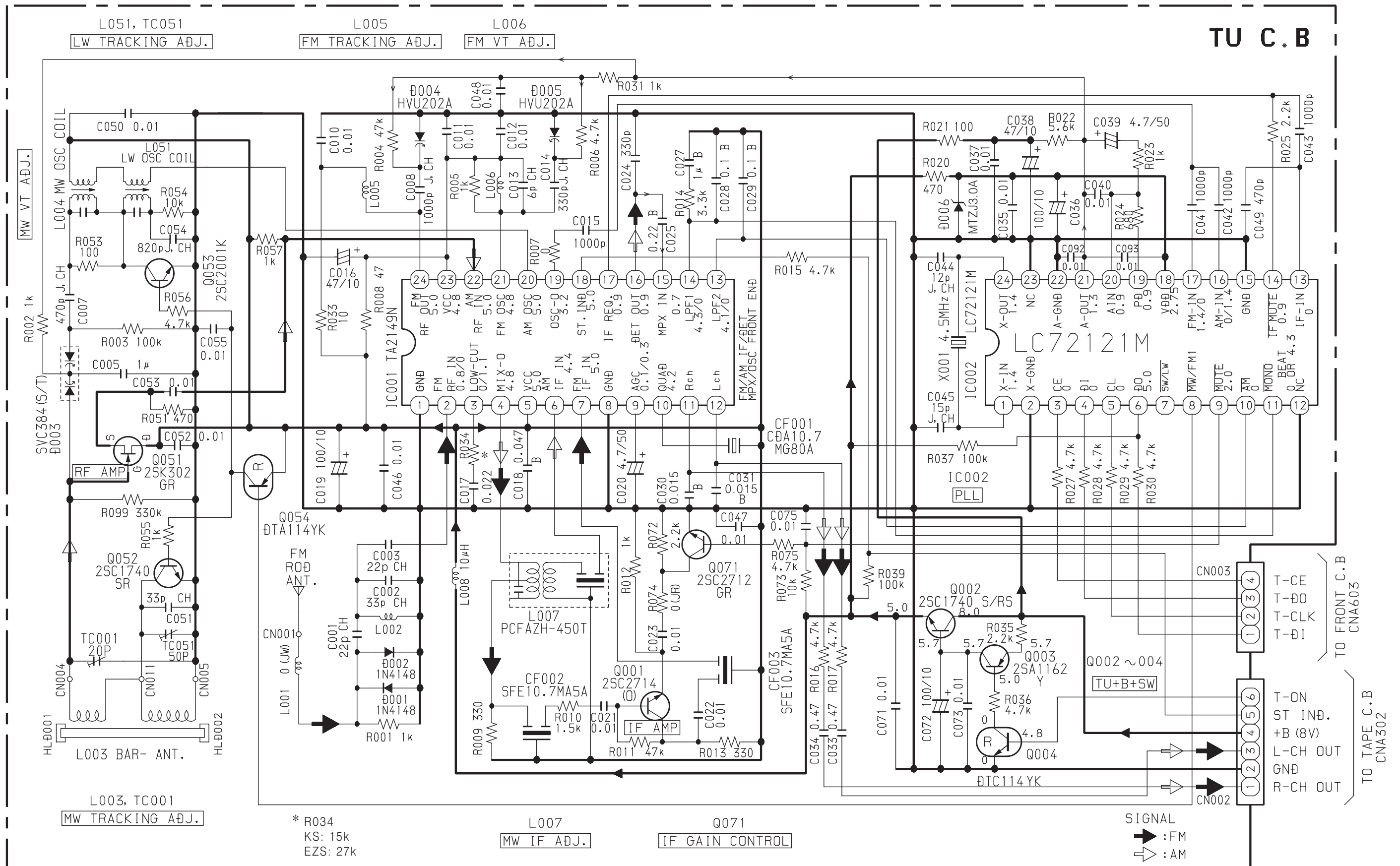
WIRING-2 (PWR/BATT)



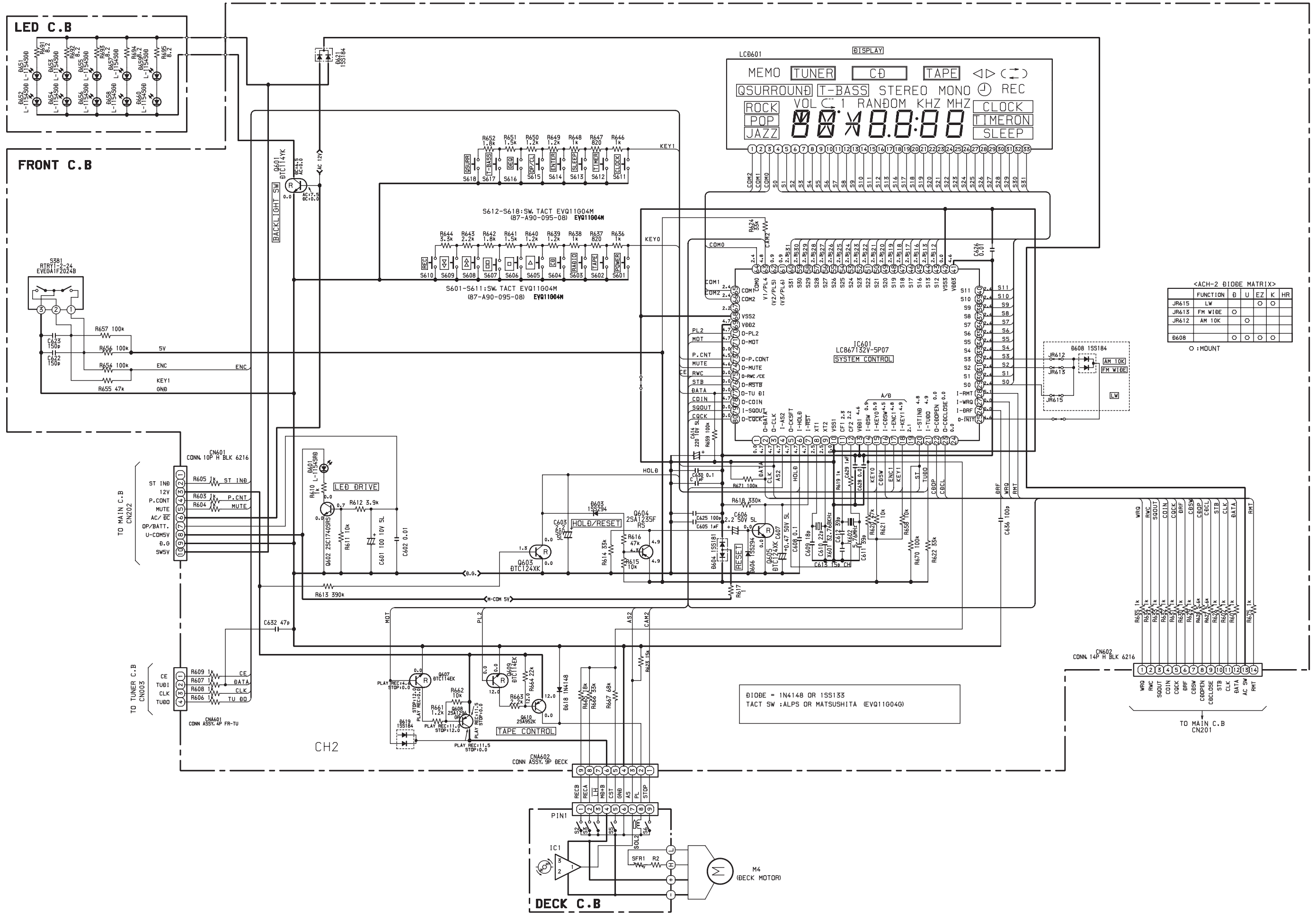
WIRING-3 (TU)



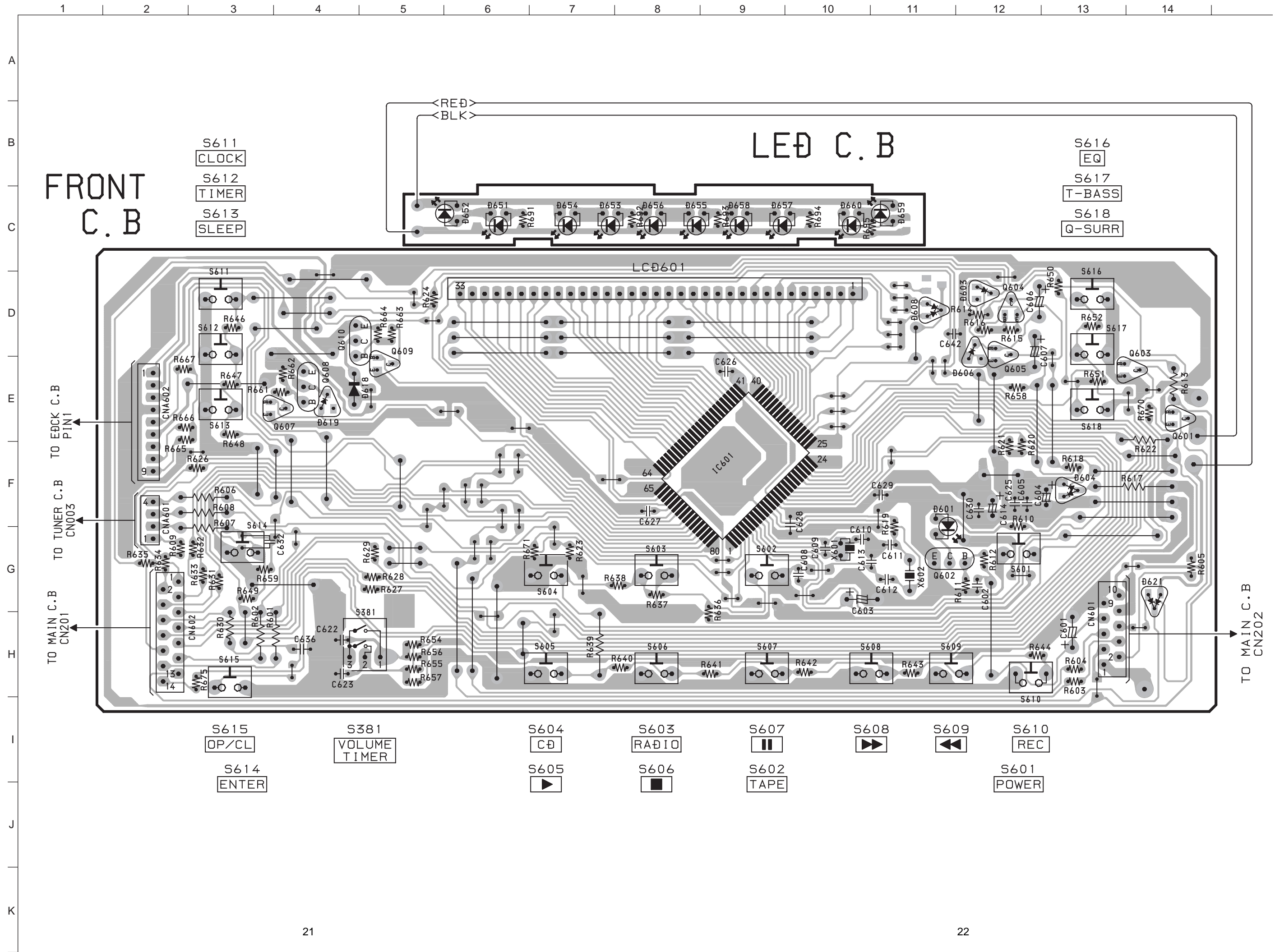
SCHEMATIC DIAGRAM-3 (TU)



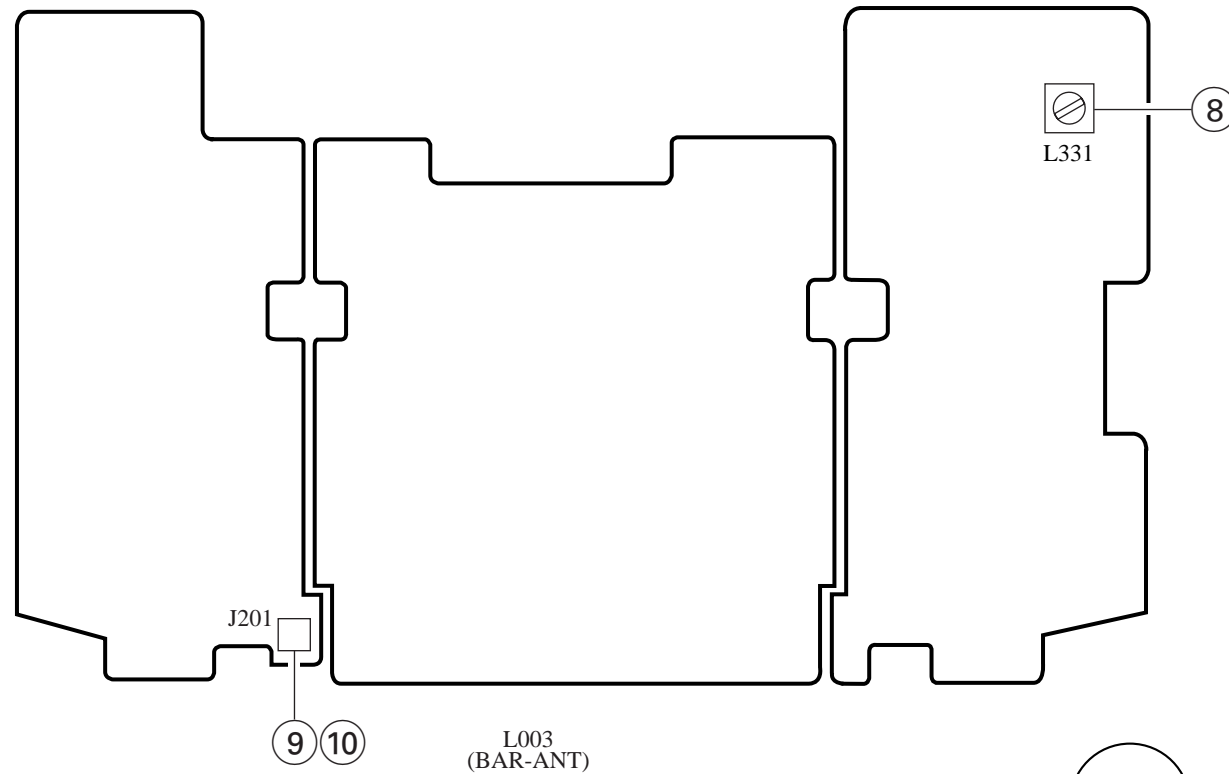
SCHEMATIC DIAGRAM-4 (FRONT)



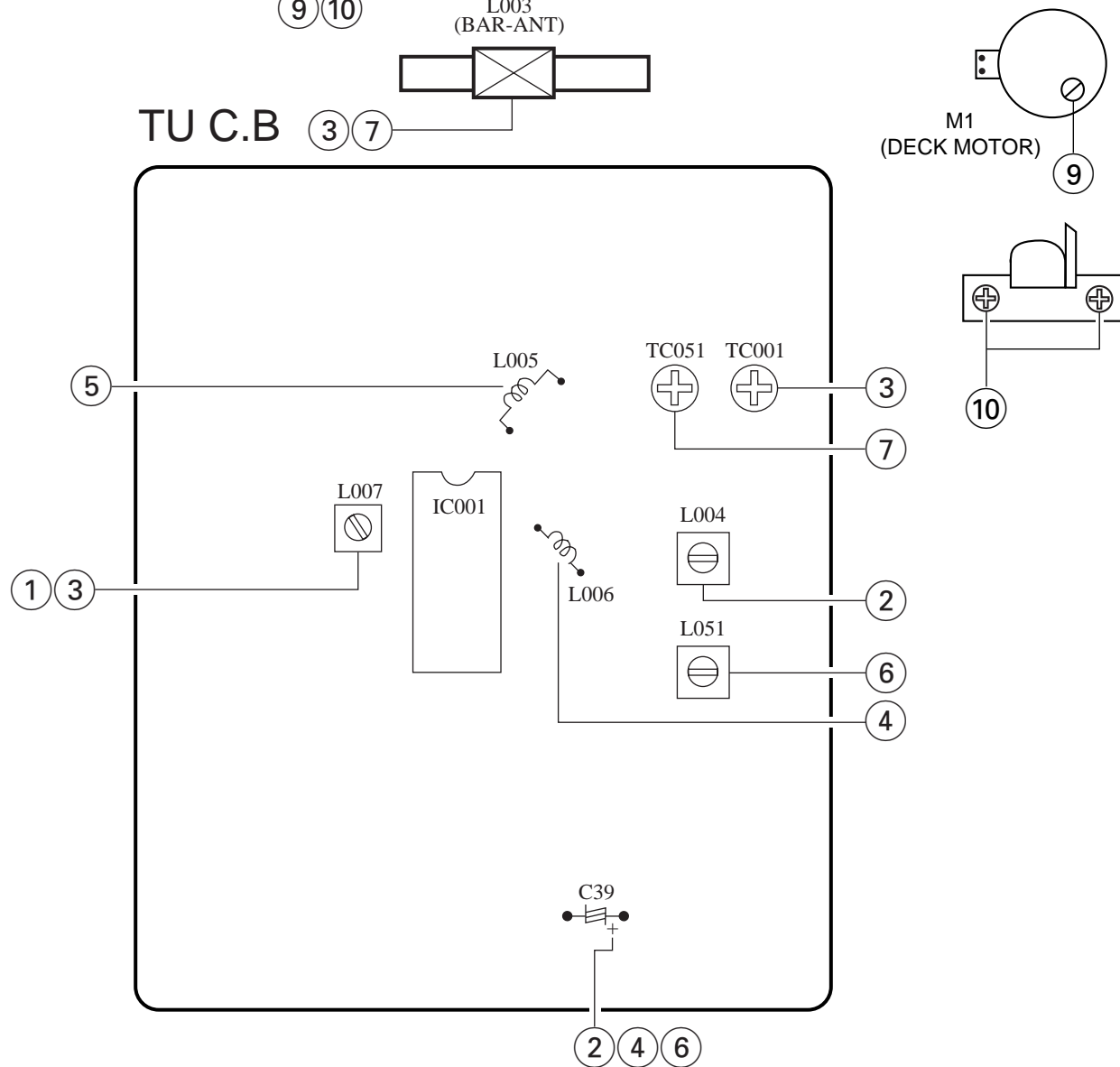
WIRING-4 (FRONT)



MAIN C.B



TU C.B



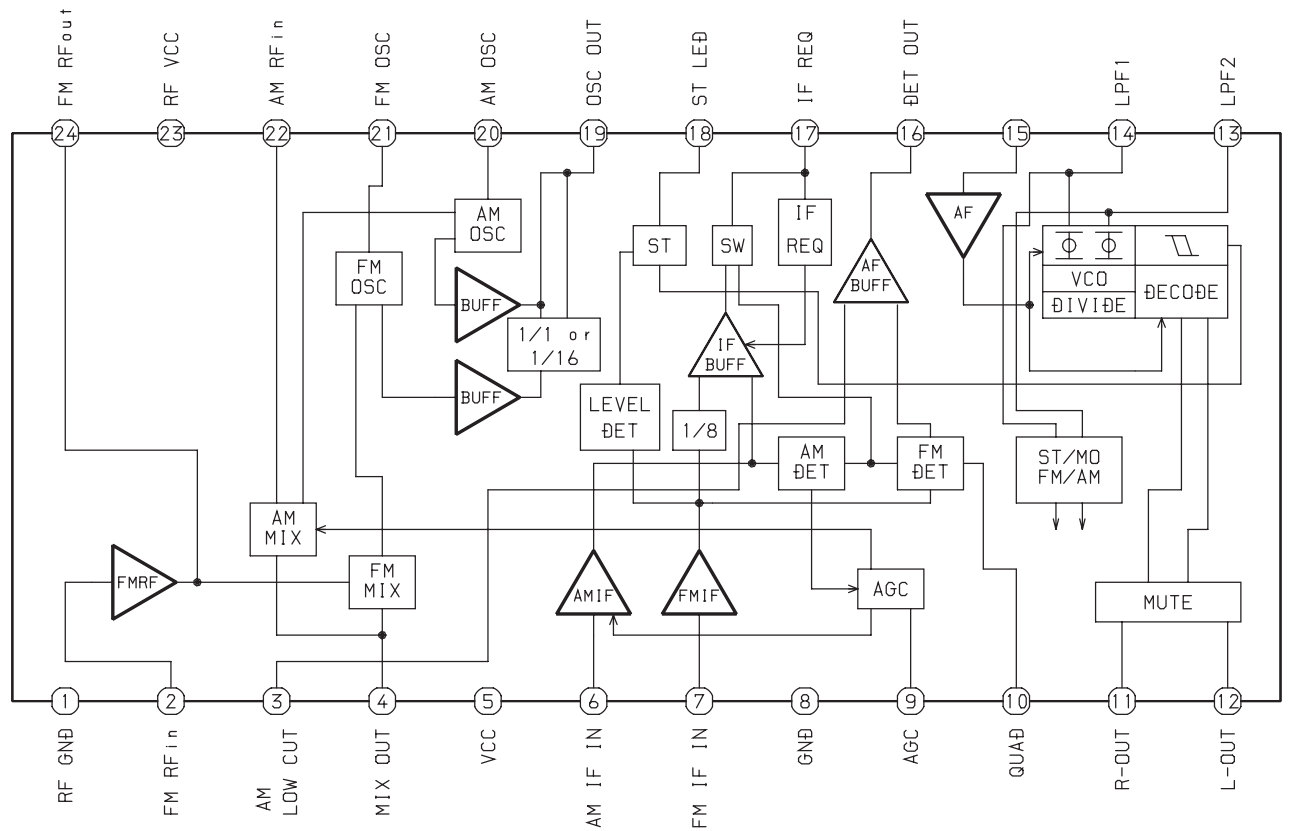
< TUNER SECTION >

1. MW IF Adjustment
L007 450kHz
2. MW VT Adjustment
Settings: • Test point: C39⊕
• Adjustment location: L004
Method: Set to MW 999kHz adjust L004 so that the test point becomes 3.7V±0.02V.
3. MW Tracking Adjustment
L003 603kHz
TC001, L007 1404kHz
4. FM VT Adjustment
Settings: • Test point: C39⊕
• Adjustment location: L006
Method: Set to FM 108MHz adjust L006 so that the test point becomes 6.0V±0.2V.
5. FM Tracking Adjustment
L005 98MHz
6. LW VT Adjustment
Settings: • Test point: C39⊕
• Adjustment location: L051
Method: Set to LW 288kHz adjust L051 so that the test point becomes 4.60V±0.02V.
7. LW Tracking Adjustment
L003 153kHz
TC051 288kHz

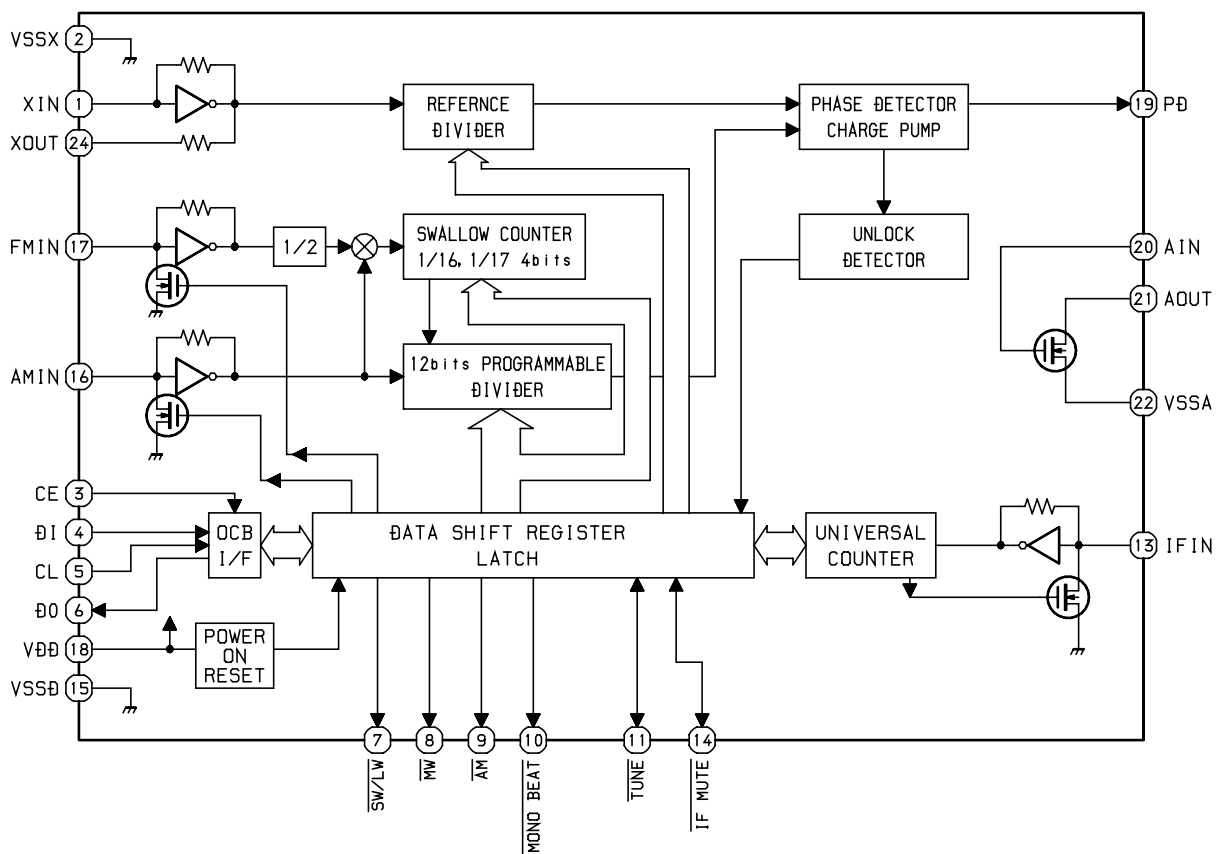
< DECK SECTION >

8. Bias frequency Adjustment
L331 75Hz±500Hz
9. Tape speed Adjustment
Settings: • Test tape: TTA-100
• Test point: PHONES JACK (J201)
• Adjustment location: SFR of deck motor
Method: Play back the test tape and adjust so that the output frequency is 3000Hz ±30Hz.
10. Azimuth Adjustment
Settings: • Test tape: TTA-320
• Test point: PHONES JACK (J201)
• Adjustment location: Azimuth adjustment screw
Method: Play back the test tape and adjust so that the output is maximum.

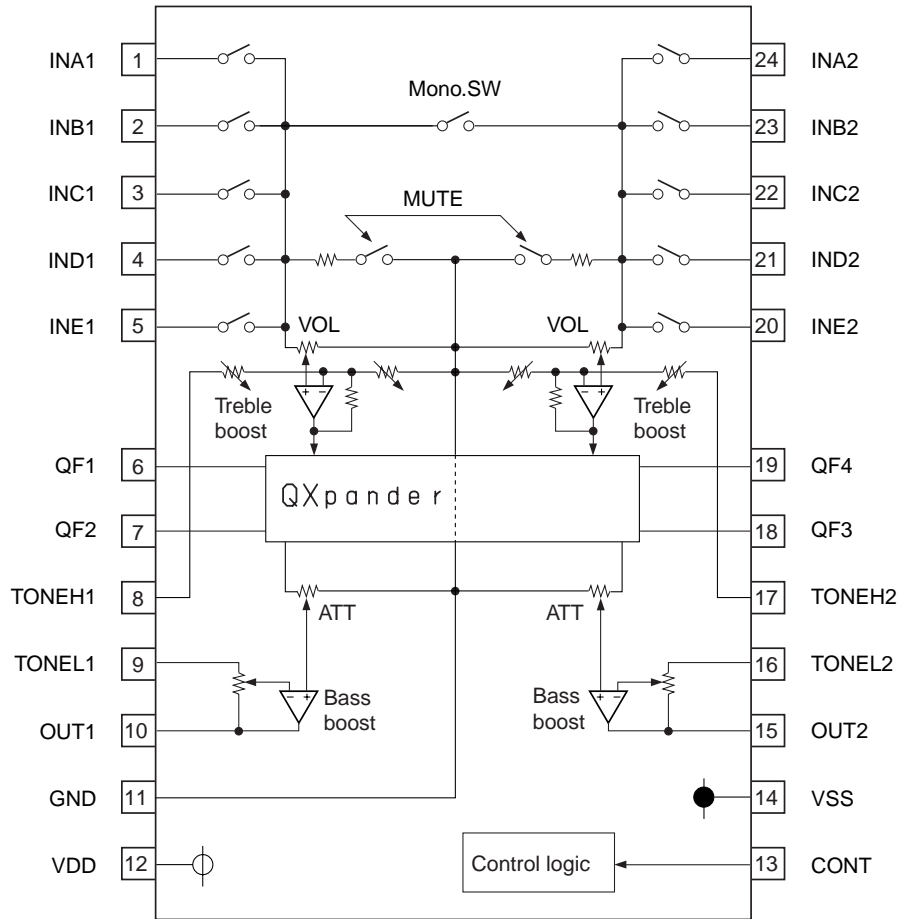
IC BLOCK DIAGRAM
IC, TA2149N



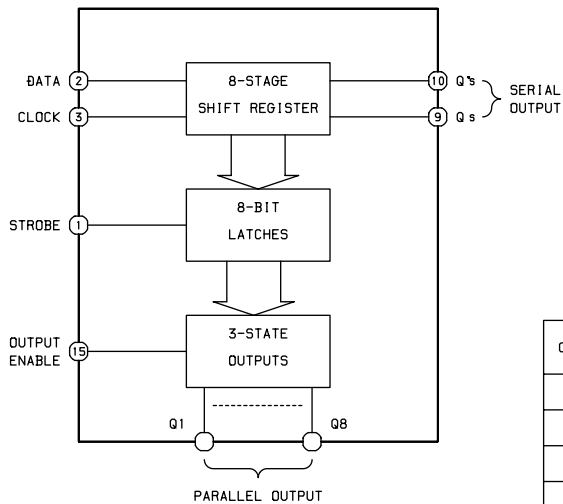
IC, LC72121M



IC, M61500FP



IC, BU4094BCF

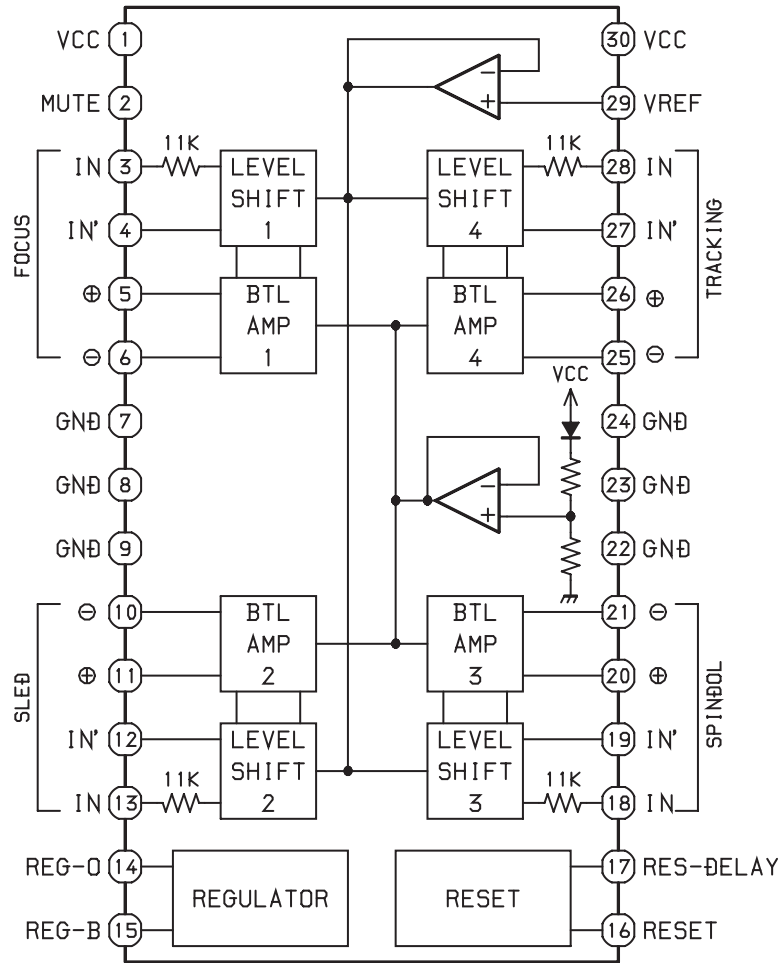


TRUTH TABLE

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

Z=High Impedance
X=Don't Care

IC, LA6541D



IC DESCRIPTION

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	T2	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.	
12, 13	CLV+, CLK-	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+	O	Moves the sled to outer circumference.	
25	SL-	O	Moves the sled to inner circumference.	
26	—	—	Not connected.	
27	PUIN	I	CD pickup inner switch detection.	
28	RW	O	Read, wright signal.	
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	T3, T4	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	RES	I	LC78622 reset input pin. Set this pin to L once when the main power is turned on.
59	T11	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	T5	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	T1	I	Test signal input pin without built-in pull-down resistor. Be sure to connect to 0V.

IC, LC867132V-5P07

Pin No.	Pin Name	I/O	Description
1	O-RMC/CE	O	CD read/write control output.
2	O-DATA	O	Data output to sound processor IC (M62495FP).
3	O-CLK	O	Clock output to sound processor IC (M62495FP).
4	NC	—	Not Connected.
5	O-CLK SFT	O	Clock shift output of the microcomputer.
6	I-HOLD	I	Hold status detection.
7	I-RST	I	Microcomputer reset.
8	XT1 (IN)	I	Connected to 32.768kHz crystal oscillator.
9	XT2 (OUT)	O	
10	VSS1	—	GND.
11	CF1 (IN)	I	Connected to 5.76MHz Ceramic Filter.
12	CF2 (OUT)	O	
13	VDD1	—	Power supply for microcomputer (+5V).
14	I-FM ST	I	FM STEREO status input.
15	I-KEYO	I	KEY AD input.
16	I-CD SW	I	CD DOOR SW status detection input.
17	I-KEY1	I	KEY AD input.
18	I-MOTOR	I	DECK MECHA MOTOR status input.
19	I-REC	I	REC status input.
20	I-FM/AM (NC)	I	FM, AM status input. (Not connected)
21	I-TU DO	I	Data input from tuner PLL.
22	O-BASS LED (NC)	O	BASS LED ON/OFF control output. (Not connected)
23	O-QS LED	O	Q-Sound LED ON/OFF control output.
24	NC	—	Not connected.
25	O-INT	O	INT DIODE MATRIX detection output.
26	I-DRF	I	CD RF level detection input.
27	I-WRQ	I	CD sub-code Q standby input.
28	I-REMO	I	Remote control input.
29	SO/PA0 (NC)	O	LCD segment output and initial settings output. (SW) (Not connected)
30	S1/PA1 (NC)	O	LCD segment output and initial settings output. (LW) (Not connected)
31	S2/PA2	O	LCD segment output and initial settings output. (MW 10K)
32	S3/PA3 (NC)	O	LCD segment output and initial settings output. (FM WIDE) (Not connected)
33	S4/PA4 (NC)	O	LCD segment output and initial settings output. (OIRT) (Not connected)
34	S5/PA5 (NC)	O	LCD segment output and initial settings output. (SW2) (Not connected)
35	S6/PA6	O	LCD segment output and initial settings output. (SYN)
36	S7/PA7	O	LCD segment output and initial settings output.
37-40	S8-S11	O	
41	VDD3	—	Power supply for microcomputer (+5V).
42	VSS3	—	GND.
43-50	S12-S19	O	LCD segment output.
51-54	S20-S23 (NC)	O	LCD segment output. (Not Connected)

Pin No.	Pin Name	I/O	Description
55	O-CD LED	O	LED ON/OFF control output for CD functions.
56	O-TU LED	O	LED ON/OFF control output for TU functions.
57	O-TA LED (NC)	O	LED ON/OFF control output for TAPE functions. (Not Connected)
58	O-ROCK LED	O	LED ON/OFF control output for ROCK.
59	O-POP LED	O	LED ON/OFF control output for POP.
60	O-JAZZ LED	O	LED ON/OFF control output for JAZZ.
61	NC	—	Not connected.
62	I-CD TEST (NC)	I	
63	I-TU TEST (NC)	I	
64-66	COM0-COM2	O	LCD common output.
67	NC	—	Not connected.
68	VSS2	—	GND.
69	VDD2	—	Power supply for microcomputer (+5V).
70	O-CD ON	O	CD PWR control output.
71	O-TU ON	O	TU PWR control output.
72	O-P.CONT	O	Power supply control output.
73	NC	—	Not connected
74	O-MUTE	O	Main mute output.
75	O-FM MONO (NC)	O	FM force control MONO output. (Not connected)
76	O-BEAT CONT	O	BEAT switch over output.
77	O-QSOUND	O	Q-Sound ON/OFF output.
78	O-COIN	O	CD command output.
79	I-SQOUT	I	CD sub-code Q input.
80	O-CQCK	O	CLK for CD commands/sub-codes.

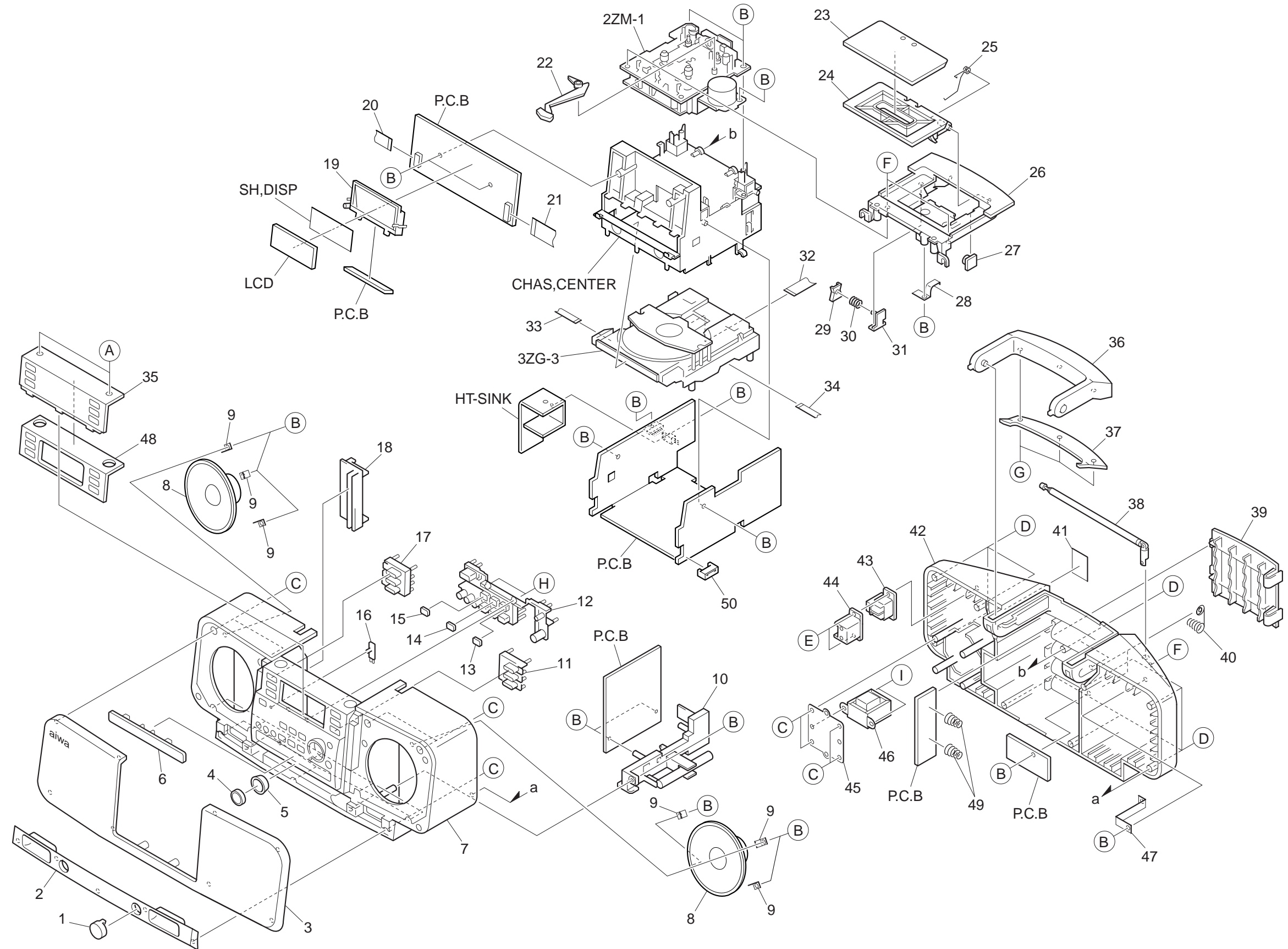
MECHANICAL PARTS LIST 1/1

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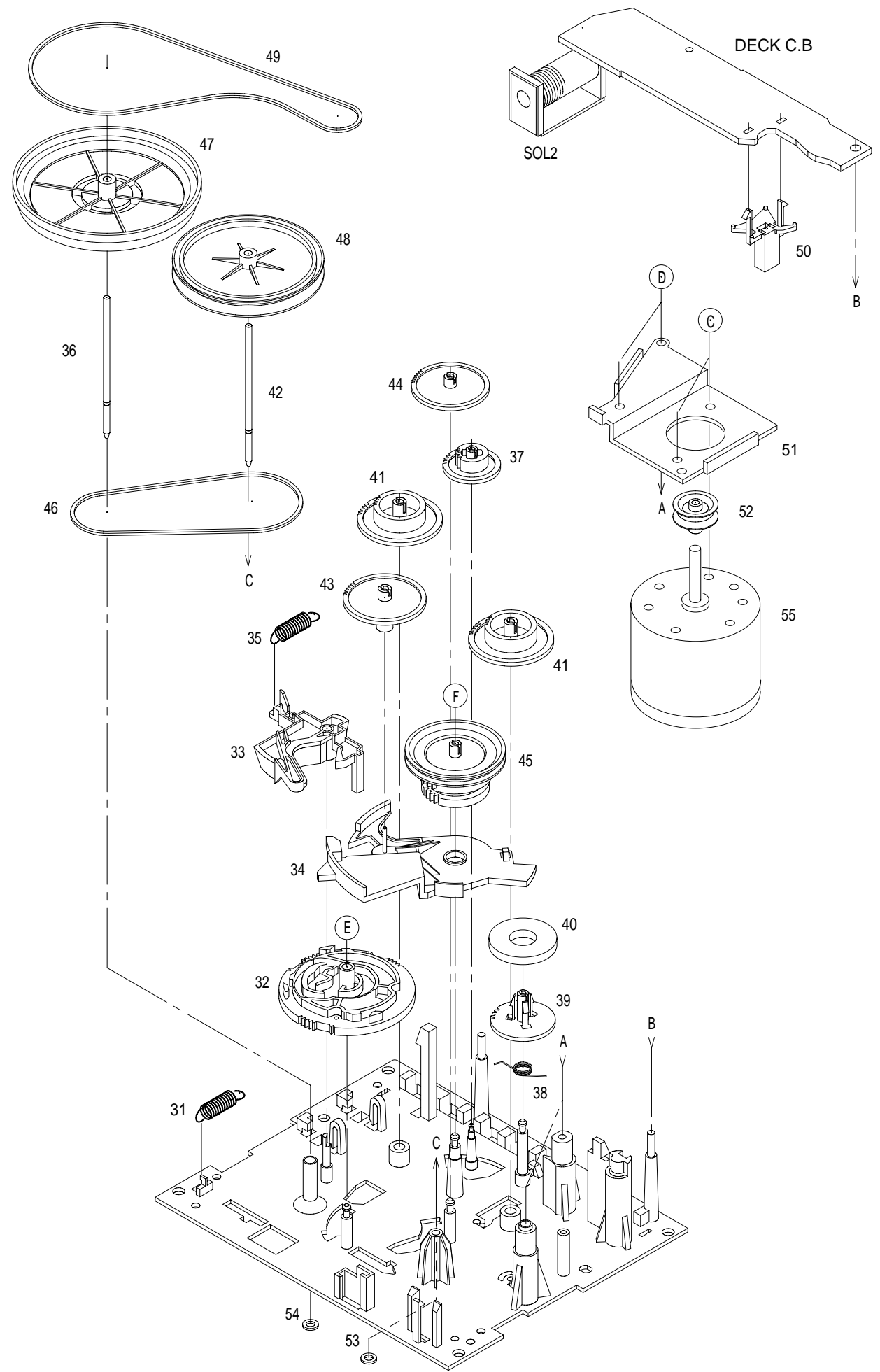
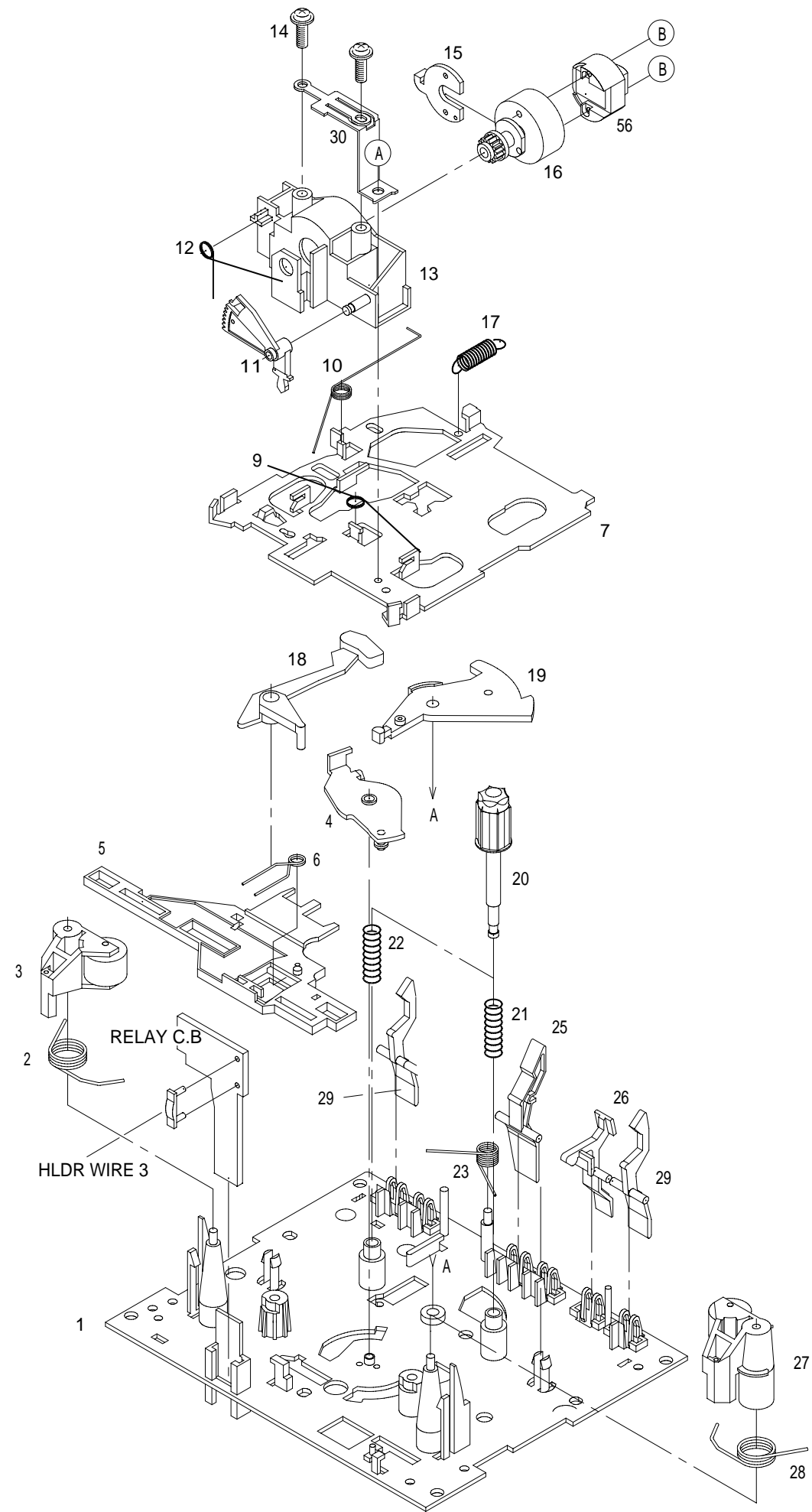
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CH2-016-010		LENS,RC	31	88-CD5-203-010		HLDR,LOCK 2N
2	8A-CH2-012-010		COVER, FR	32	8A-CH2-621-010		FF-CABLE,16P 1.0
3	8A-CH2-030-010		FRAME, NET ASSY	33	8A-CH2-622-010		FF-CABLE,5P 1.25
4	8A-CH2-024-010		CAP, JOG	34	8A-CH2-623-010		FF-CABLE,6P 1.25
5	8A-CH2-023-010		KNOB,RTRY JOG	35	8A-CH2-014-010		COVER, LCD
6	8A-CH2-013-010		PANEL,CD	36	8A-CH2-010-010		HANDL,ARM
7	8A-CH2-001-010		CABI,FR	37	8A-CH2-011-010		COVER, HANDL
8	8A-CH4-682-010		SPKR,10- 7OHM	38	86-CT4-616-010		ANT,ROD
9	88-CD5-211-010		HLDR,SPKR	39	8A-CH2-007-010		LID,BATT
10	8A-CH2-205-010		HLDR,TU	40	88-CD5-206-010		SPR-C,BATT LINK
11	8A-CH2-018-010		BTN,TIMER	41	8A-CH2-035-010		PLATE,AC
12	8A-CH2-025-010		BTN,POWER	42	8A-CH2-002-010		CABI,REAR
13	8A-CH2-022-010		LENS,CD	43	87-A60-178-010		JACK,AC E W/SW
14	8A-CH2-021-010		LENS,TUNER	44	87-A90-086-010		COVER,AC-SOCKET
15	8A-CH2-020-010		LENS,TAPE	45	88-CD5-212-010		HLDR,TRANS
16	8A-CH2-015-010		LENS,POWER	46	88-CD5-647-010		PT,E
17	8A-CH2-017-010		BTN,GRA	47	8A-CH2-208-010		HLDR,ANT
18	8A-CH2-204-010		HLDR,JOINT	48	8A-CH2-008-010		WINDOW,DISP
19	87-A90-193-010		HLDR,CV100 (B)	49	88-CD5-207-010		SPR-C, BATT(-)
20	8A-CH2-620-010		FF-CABLE,10P 1.25	50	8A-CH2-203-010		HLDR, RC
21	8A-CH2-619-010		FF-CABLE,14P 1.25	A	8Z-CL1-034-010		S-SCREW,ZCL1
22	82-ZM1-263-110		LVR,EJECT L	B	87-751-097-410		SCREW 3X12
23	8A-CH2-009-010		WINDOW,CASS	C	87-661-100-410		VFT1+3-16
24	8A-CH2-003-010		BOX,CASS	D	87-651-104-410		VT1+3-30
25	8A-CH2-206-010		SPR-T,CASS	E	87-651-075-410		VT1 +2.6-10
26	8A-CH2-004-010		CHAS,CASS	F	87-254-097-410		U+3-12 CR
27	87-063-165-010		OIL-DMPR 150	G	87-B10-239-010		QT2+3-8 W/O CR
28	8A-CH2-207-010		SPR-P,CASS	H	87-B10-288-010		BVT2+2.6-8 W/O SLOT
29	82-NF5-229-010		PLATE,LOCK	I	87-067-566-010		TAPPING SCREW, VFTT+3-6
30	88-CD5-213-010		SPR-C,LOCK				

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 EXPLODED VIEW 1/1

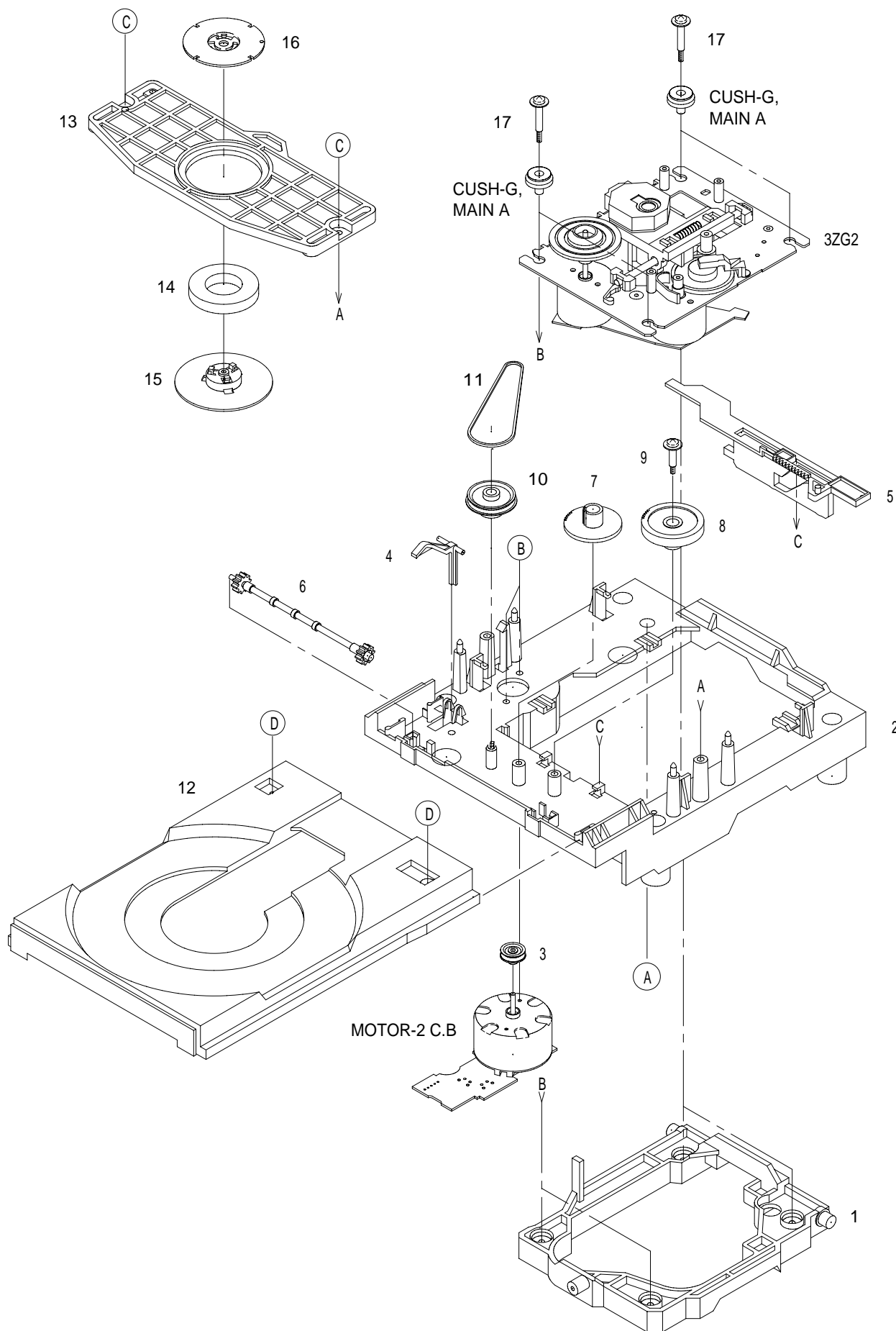


TAPE MECHANISM PARTS LIST 1/1

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REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM1-327-210		CHAS ASSY,RN	33	82-ZM1-227-210		LVR,TRIG
2	82-ZM1-258-010		SPR-T,PINCH L	34	82-ZM1-224-410		LVR,FR
3	82-ZM1-341-010		LVR ASSY,PINCH L 2	35	86-ZM4-201-010		SPR-E,TRIG 3
4	82-ZM1-295-310		PLATE ASSY,LINK	36	82-ZM1-239-010		CAPSTAN 2.2-41.7
5	82-ZM1-266-110		LVR,DIR	37	82-ZM1-223-010		GEAR,PLAY
6	82-ZM1-214-010		SPR-T,DIR	38	82-ZM1-322-010		SPR-T,FR 60
7	82-ZM1-206-810		CHAS,HEAD	39	82-ZM1-220-210		GEAR,IDLER
9	82-ZM1-269-210		SPR-T,BRG	40	82-ZM3-616-010		RING MAGNET 4
10	82-ZM3-323-010		SPR-T,LINK 3	41	82-ZM1-216-310		GEAR,REEL
11	82-ZM1-210-110		GEAR,H T	42	82-ZM1-236-010		CAPSTAN,2-41.5
12	82-ZM1-213-010		SPR-T,HEAD	43	82-ZM1-225-010		GEAR,FR
13	82-ZM1-207-610		GUIDE,TAPE	44	82-ZM1-226-010		GEAR,REW
14	82-ZM1-283-310		S-SCREW,AZIMUTH	45	82-ZM3-333-210		SLIP DISK ASSY 2
15	82-ZM1-314-119		PLATE,HEAD	46	82-ZM1-338-010		BELT,FR 4
16	82-ZM1-208-110		HLDR,HEAD	47	82-ZM1-349-010		FLY-WHL,RH
17	82-ZM1-218-010		SPR-E,HB	48	82-ZM1-348-010		FLY-WHL,LW
18	82-ZM1-263-110		LVR,EJECT	49	82-ZM1-351-010		BELT,MAIN R7
19	82-ZM1-222-210		LVR,PLAY	50	82-ZM1-245-210		HLDR,IC
20	82-ZM1-217-310		REEL TABLE	51	82-ZM1-350-010		HOLDR,MOTOR R7
21	82-ZM1-244-510		SPR-C,BT	52	82-ZM1-247-110		PULLEY,MOTOR
22	82-ZM1-285-410		SPR-C,BT L	53	82-ZM1-288-010		SH,1.63-3.2-0.5 SLT
23	82-ZM1-257-010		SPR-T,CAS	54	80-ZM6-243-010		SH,1.75-3.6-0.5 SLT
25	82-ZM1-242-010		LVR,CAS	55	87-A90-343-010		MOT,SHU2R 70(M1)
26	82-ZM1-243-010		LVR,STOP	56	87-A90-772-110		HEAD,RPH KC9142(RPH)
27	82-ZM1-344-010		LVR ASSY,PINCH R	A	82-ZM1-315-010		S-SCREW,GUIDE TAPE
28	82-ZM1-259-110		SPR-T,PINCH R	B	80-ZM6-207-010		V+1.6-7
29	82-ZM1-240-110		LVR,REC	C	87-251-070-410		U+2.6-3
30	82-ZM1-298-010		SPR-P,EARTH	D	87-741-073-410		UT2+2.6-6 GLD
31	82-ZM1-255-310		SPR-E,LVR DIR	E	87-B10-008-010		PW,2.15-6.8-0.4 SLT
32	82-ZM1-221-110		GEAR,CAM	F	82-ZM3-334-010		PW,2.16-6-0.4

CD MECHANISM EXPLODED VIEW 1/1

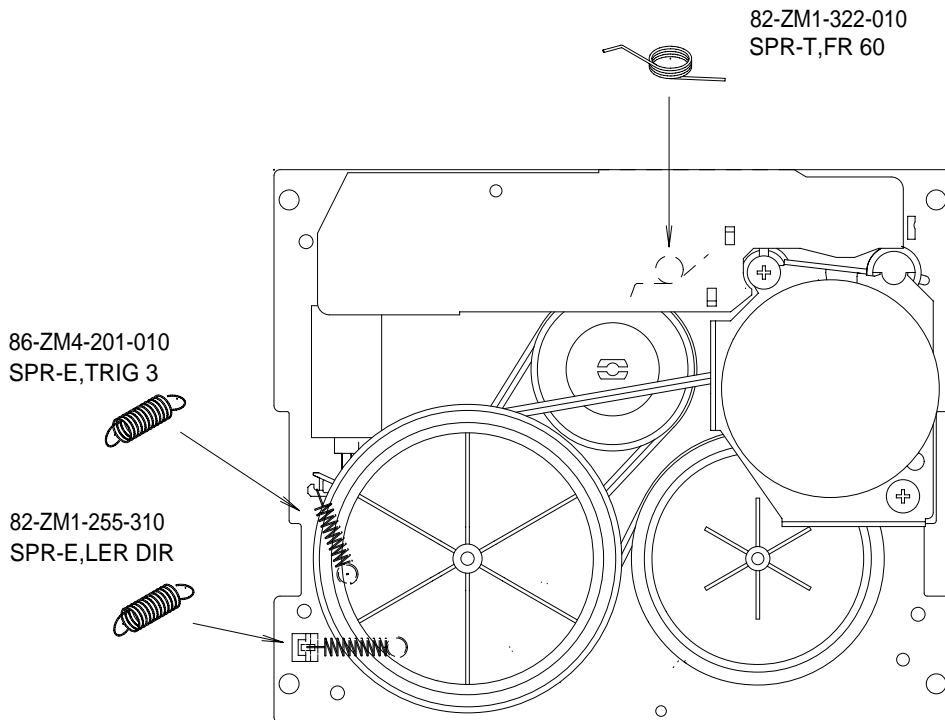
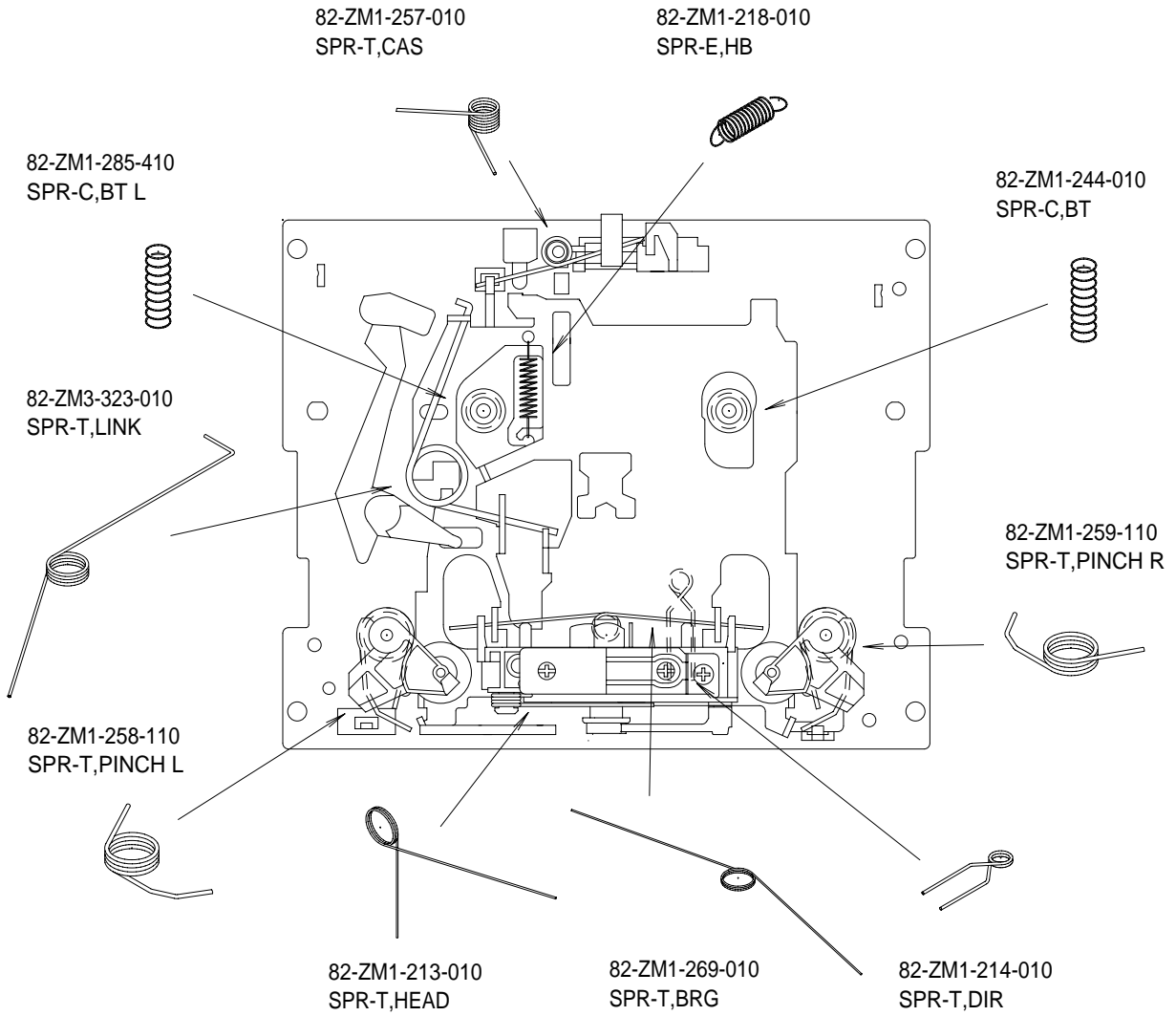


CD MECHANISM PARTS LIST 1/1

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REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	83-ZG3-224-310		HLDR, M2	16	83-ZG3-211-010		PLATE, DISC
2	83-ZG3-228-610		CHAS, L6	17	81-ZG1-254-010		S-SCEW, MECH HLDR
3	83-ZG3-208-010		PULLEY, MOTOR	A	87-067-945-110		VFT2+3-12(F10)
4	83-ZG3-213-010		LVR, SW	B	87-251-071-110		U+2.6-4
5	83-ZG3-209-610		CAM, SLIDE	C	87-512-074-210		VFT2+2.6-8
6	83-ZG3-207-010		GEAR, TRAY	D	87-352-075-210		VT2+2.6-10
7	83-ZG3-204-210		GEAR, C				
8	83-ZG3-205-010		GEAR, D				
9	83-ZG3-217-010		S-SCREW, GEAR D				
10	83-ZG3-220-210		GEAR, PULLEY 2				
11	83-ZG3-214-010		BELT, L				
12	83-ZG3-229-410		TRAY, CD 2				
13	83-ZG3-210-110		HLDR, CHUCK				
14	83-ZG3-602-010		RING, MAG				
15	83-ZG3-212-010		CAP, DISC				

SPRING APPLICATION POSITION



REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

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, JAPAN TEL:03 (3827) 3111