

SERVICE MANUAL

COMPACT DISC STEREO RADIO
CASSETTE RECORDER

BASIC TAPE MECHANISM : TN-21ZVC-2000
BASIC CD MECHANISM : DA11T3C

SPECIFICATIONS

HA MODEL

Tuner section

Frequency range, antenna — FM: 87.5 - 108.0 MHz Rod antenna, AM: 530/531 - 1,710/1,602 kHz (10/9 kHz step) Ferrite bar antenna

Deck section

Track format — 4 tracks, 2 channels / Frequency range — Normal tape: 50 - 12,500 Hz (EIAJ) / Recording system — AC bias / Erasing system — Magnet erase / Heads — Recording/playback head (1), Erasure head (1)

CD player section

Disc — Compact disc / Scanning method — Non-contact optical scanner (semiconductor laser)

General (EXCEPT LH MODEL)

Speaker — 80 mm cone type (2) / Output — Headphones jack (stereo mini-jack) / Power output — 2.5 W + 2.5 W (EIAJ 7 ohms DC) / Power requirements — DC 12 V using eight size C (R14) batteries, AC 120 V, 60 Hz / Power consumption — 18 W
Dimensions (W × H × D) — 310 × 171 × 260 mm (12¹/₄ × 6³/₄ × 10¹/₄ in.)
Weight (excluding batteries) — 2.8 kg (6 lbs. 3 oz.)

General (LH MODEL)

Speaker — 80 mm cone type (2) / Output — Headphones jack (stereo mini-jack) / Power output — 2,5 W + 2,5 W (EIAJ 7 ohms DC), 1,9 W + 1,9 W (DIN 1% Rated Power) / Power requirements — DC 12 V using eight size C (R14) batteries, AC 110 - 120 V/220 - 240 V switchable, 50/60 Hz / Power consumption — 16 W
Dimensions (W × H × D) — 310 × 171 × 260 mm
Weight (excluding batteries) — 2.8 kg

- Design and specifications are subject to change without notice.

EZ MODEL

Tuner section

Frequency range, antenna — FM: 87.5 - 108.0 MHz Rod antenna, MW: 531/530 - 1,602/1,710 kHz (9/10 kHz step) Ferrite bar antenna, LW: 153 - 288 kHz Ferrite bar antenna

Deck section

Track format — 4 tracks, 2 channels / Frequency range — Normal tape: 50 - 12,500 Hz (EIAJ) / Recording system — AC bias / Erasing system — Magnet erase / Heads — Recording/playback head (1), Erasure head (1)

CD player section

Disc — Compact disc / Scanning method — Non-contact optical scanner (semiconductor laser)

General

Speaker — 80 mm cone type (2) / Output — Headphones jack (stereo mini-jack) / Power output — 2.9 W + 2.9 W (DIN MUSIC POWER), 2.5 W + 2.5 W (EIAJ 7 ohms DC), 1.9 W + 1.9 W (DIN 1% Rated Power) / Power requirements — DC 12 V using eight size C (R14) batteries, AC 230 V, 50 Hz / Power consumption — 16 W
Dimensions (W × H × D) — 310 × 171 × 260 mm
Weight (excluding batteries) — 2.8 kg

- Design and specifications are subject to change without notice.

HR MODEL

Tuner section

Frequency range, antenna — FM: 87.5 - 108.0 MHz Rod antenna, AM: 531/530 - 1,602/1,710 kHz (9/10 kHz step) Ferrite bar antenna

Deck section

Track format — 4 tracks, 2 channels / Frequency range — Normal tape: 50 - 12,500 Hz (EIAJ) / Recording system — AC bias / Erasing system — Magnet erase / Heads — Recording/playback head (1), Erasure head (1)

CD player section

Disc — Compact disc / Scanning method — Non-contact optical scanner (semiconductor laser)

General

Speaker — 80 mm cone type (2) / Output — Headphones jack (stereo mini-jack) / Power output — 2,5 W + 2,5 W (EIAJ 7 ohms DC), 1,9 W + 1,9 W (DIN 1% Rated Power) / Power requirements — DC 12 V using eight size C (R14) batteries, AC 110 - 120 V/220 - 240 V switchable, 50/60 Hz / Power consumption — 16 W
Dimensions (W × H × D) — 310 × 171 × 260 mm
Weight (excluding batteries) — 2.8 kg

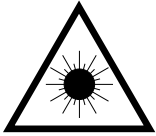
- Design and specifications are subject to change without notice.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

WARNING!

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



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

VAROITUS!

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

WARNING!

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

CAUTION

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

ATTENTION

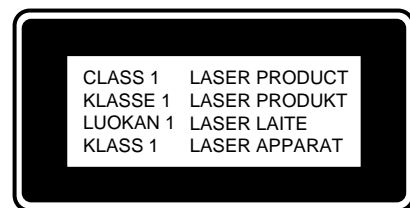
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

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

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

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

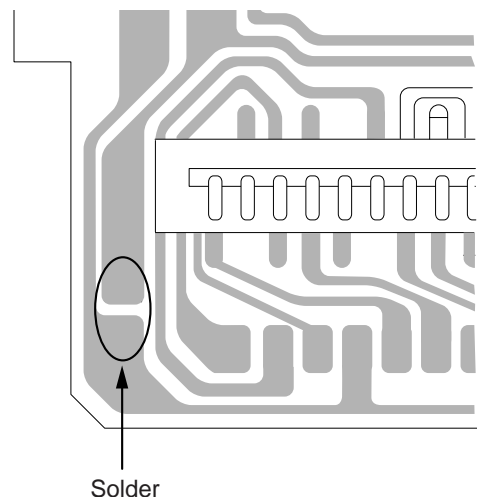


Precaution to replace Optical block (SF-P101NR)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

- 1) After the connection, remove solder shown in the right figure.

PICK-UP Assy P.C.B



ELECTRICAL MAIN PARTS LIST

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

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC				C321	87-010-197-080		CAP, CHIP 0.01 DM
	87-A21-550-010	IC,TA2149N		C322	87-010-263-080		CAP, ELECT 100-10V
	87-A21-185-040	C-IC,LC72121M		C325	87-010-405-080		CAP, ELECT 10-50V
	87-A21-064-010	IC,LA4227		C401	87-010-403-080		CAP, ELECT 3.3-50V
	87-A21-520-040	C-IC,M61509FP		C402	87-010-197-080		CAP, CHIP 0.01 DM
	87-A20-446-010	C-IC,LA9241ML		C403	87-010-263-080		CAP, ELECT 100-10V
	87-A20-459-010	C-IC,LC78622ED		C404	87-010-248-080		CAP, ELECT 220-10V
	87-A21-093-010	IC,LA6541D		C405	87-010-197-080		CAP, CHIP 0.01 DM
	8A-CH4-661-010	C-IC,LC867132V-5P07		C406	87-010-374-080		CAP, ELECT 47-10V
	87-A21-431-010	IC,BA4560N		C407	87-010-178-080		CHIP CAP 1000P
				C408	87-010-198-080		CAP, CHIP 0.022
				C409	87-010-248-080		CAP, ELECT 220-10V
TRANSISTOR				C410	87-010-263-080		CAP, ELECT 100-10V
	89-327-143-080	TR,2SC2714 (0.1W)		C411	87-A11-177-080		C-CAP,S 0.15-16 K B
	87-026-447-080	TR,2SC1740S R		C412	87-010-401-080		CAP, ELECT 1-50V
	89-111-624-080	TR,2SA1162Y		C413	87-016-369-080		C-CAP,S 0.033-25 B K
	87-026-213-080	CHIP-TR,DTC114YK		C414	87-010-405-080		CAP, ELECT 10-50V
	89-503-025-010	C-FET,2SK302GR<EVS>		C416	87-010-545-080		CAP, ELECT 0.22-50V
	89-320-011-080	TR,2SC2001 (15W)		C417	87-012-157-080		C-CAP,S 330P-50 CH
	87-026-230-080	CHIP-TR,DTA114YK<EVS>		C418	87-010-213-080		C-CAP,S 0.015-50 B
	87-026-463-080	TR,2SA933S (0.3W)		C419	87-A11-608-080		C-CAP,S 0.33-25 K B
	89-327-125-080	C-TR,2SC2712(GR)		C420	87-016-369-080		C-CAP,S 0.033-25 B K
	89-112-965-080	TR,2SA1296 (0.75W)		C421	87-A11-177-080		C-CAP,S 0.15-16 K B
	87-026-291-080	TR,DTC124XS		C422	87-010-184-080		CHIP CAPACITOR 3300P(K)
	87-A30-226-010	TR,2SB1655E		C423	87-010-194-080		C-CAP,S 0.47-25V(Z)F
	87-026-462-080	TR,2SC1740 S(RS 0.3W)		C424	87-A10-712-080		C-CAP,S 0.22-25V(Z)F
	89-318-154-080	TR,2SC1815 (0.4W)		C425	87-010-176-080		C-CAP,S 680P-50 SL
	89-109-332-380	TR,2SA933RS		C426	87-A11-608-080		C-CAP,S 0.33-25 K B
	89-113-187-080	TR,2SA1318TU		C428	87-010-197-080		CAP, CHIP 0.01 DM
	87-026-239-080	TR,DTC114TK (0.2W)		C429	87-010-186-080		CAP,CHIP 4700P
	87-026-464-080	TR,DTC114TS (0.3W)		C430	87-012-156-080		C-CAP,S 220P-50 CH
DIODE				C431	87-010-545-080		CAP, ELECT 0.22-50V
	87-070-345-080	DIODE,IN4148		C432	87-010-374-080		CAP, ELECT 47-10V
	87-A40-616-070	VARI-CAP,SVC384(S/T)		C433	87-010-401-080		CAP, ELECT 1-50V
	87-A40-128-080	C-VARI-CAP,HVU202A		C434	87-010-184-080		CHIP CAPACITOR 3300P(K)
	87-017-072-080	ZENER,HZS3B1		C435	87-010-197-080		CAP, CHIP 0.01 DM
	87-027-607-080	ZENER,HZ7B3L		C436	87-010-374-080		CAP, ELECT 47-10V
	87-A40-648-080	ZENER,MTZJ8.2A		C437	87-010-404-080		CAP, ELECT 4.7-50V
	87-A40-234-080	ZENER,MTZJ5.6A		C438	87-016-669-080		C-CAP,S 0.1-25 K B
	87-017-978-080	DIODE,IN4003		C439	87-010-178-080		CHIP CAP 1000P
	87-027-702-080	ZENER,HZ6C2L		C440	87-010-145-080		C-CAP,S 1P-50 CH
	87-020-465-080	DIODE,LSS133 (110MA)		C441	87-010-197-080		CAP, CHIP 0.01 DM
	87-A40-465-010	DIODE,FR202		C442	87-010-312-080		C-CAP,S 15P-50 CH
MAIN C.B				C445	87-012-368-080		C-CAP,S 0.1-50 F
				C446	87-012-368-080		C-CAP,S 0.1-50 F
C30	87-010-260-080	CAP, ELECT 47-25V		C447	87-012-368-080		C-CAP,S 0.1-50 F
C251	87-010-401-080	CAP, ELECT 1-50V		C448	87-010-315-080		C-CAP,S 27P-50 CH
C261	87-010-402-080	CAP, ELECT 2.2-50V		C450	87-012-140-080		CAP 470P
C262	87-010-402-080	CAP, ELECT 2.2-50V		C451	87-012-156-080		C-CAP,S 220P-50 CH
C263	87-010-178-080	CHIP CAP 1000P		C455	87-010-247-080		CAP, ELECT 100-50V
C264	87-010-178-080	CHIP CAP 1000P		C457	87-010-312-080		C-CAP,S 15P-50 CH
C265	87-010-263-080	CAP, ELECT 100-10V		C458	87-010-312-080		C-CAP,S 15P-50 CH
C266	87-010-263-080	CAP, ELECT 100-10V		C459	87-010-263-080		CAP, ELECT 100-10V
C267	87-010-112-080	CAP, ELECT 100-16V		C460	87-015-819-080		CAPACITOR,0.01
C268	87-010-112-080	CAP, ELECT 100-16V		C461	87-010-197-080		CAP, CHIP 0.01 DM
C271	87-010-237-080	CAP, ELECT 1000-16V		C462	87-010-248-080		CAP, ELECT 220-10V
C272	87-010-237-080	CAP, ELECT 1000-16V		C463	87-018-134-010		CAP, TC U 0.01-16NY UP050
C278	87-010-405-080	CAP, ELECT 10-50V		C465	87-010-404-080		CAP, ELECT 4.7-50V
C279	87-010-385-080	CAP, ELECT 220-25V		C466	87-012-368-080		C-CAP,S 0.1-50 F
C301	87-016-495-000	EL CAP 3300UF/25V		C467	87-010-263-080		CAP, ELECT 100-10V
C306	87-010-404-080	CAP, ELECT 4.7-50V		C469	87-012-154-080		C-CAP,S 150P-50 CH
C307	87-010-401-080	CAP, ELECT 1-50V		C470	87-010-544-080		CAP, ELECT 0.1-50V
C308	87-010-221-080	CAP, ELECT 470-10V		C471	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C311	87-010-263-080	CAP, ELECT 100-10V		C472	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C312	87-010-385-080	CAP, ELECT 220-25V		C473	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
				C474	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
				C475	87-010-197-080		CAP, CHIP 0.01 DM
				C476	87-010-236-080		CAP,E 1000-10 SME
				C477	87-010-197-080		CAP, CHIP 0.01 DM
				C478	87-010-263-080		CAP, ELECT 100-10V

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C479	87-010-197-080		CAP, CHIP 0.01 DM	C817	87-010-180-080		C-CER 1500P
C480	87-010-221-080		CAP, ELECT 470-10V	C819	87-010-426-080		C-CAP,S 0.012-25 B
C481	87-010-405-080		CAP, ELECT 10-50V	C820	87-010-426-080		C-CAP,S 0.012-25 B
C482	87-010-405-080		CAP, ELECT 10-50V	C821	87-010-401-080		CAP, ELECT 1-50V
C483	87-012-156-080		C-CAP,S 220P-50 CH	C822	87-010-401-080		CAP, ELECT 1-50V
C484	87-012-156-080		C-CAP,S 220P-50 CH	C823	87-010-178-080		CHIP CAP 1000P
C489	87-012-368-080		C-CAP,S 0.1-50 F	C824	87-010-178-080		CHIP CAP 1000P
C490	87-012-368-080		C-CAP,S 0.1-50 F	C829	87-010-178-080		CHIP CAP 1000P
C491	87-010-197-080		CAP, CHIP 0.01 DM	C830	87-010-178-080		CHIP CAP 1000P
C493	87-010-197-010		C-CAP,S 0.01-25K B GRM	C833	87-018-195-080		CAP, CER 1200P-16V
			<EXCEPT HAS>				
C494	87-010-197-080		CAP, CHIP 0.01 DM<HAS>	C834	87-010-248-080		CAP, ELECT 220-10V
C495	87-010-184-010		C-CAP,S 3300-50KB<EXCEPT HAS>	C835	87-010-322-080		C-CAP,S 100P-50 CH
C499	87-018-120-010		CAP,TC U 120P-50KB UP050	C836	87-010-322-080		C-CAP,S 100P-50 CH
			<EXCEPT HAS>	C843	87-010-197-080		CAP, CHIP 0.01 DM
C501	87-012-368-080		C-CAP,S 0.1-50 F	C844	87-018-124-080		CAP, CER 270P-50V
C502	87-010-322-080		C-CAP,S 100P-50 CH	C845	87-010-178-080		CHIP CAP 1000P
C503	87-010-322-080		C-CAP,S 100P-50 CH	C846	87-010-263-080		CAP, ELECT 100-10V
C504	87-010-322-080		C-CAP,S 100P-50 CH	C851	87-010-186-080		CAP,CHIP 4700P
C505	87-010-322-080		C-CAP,S 100P-50 CH	C852	87-010-178-080		CHIP CAP 1000P
C506	87-010-322-080		C-CAP,S 100P-50 CH	C853	87-018-211-080		CAP, CER 0.01-50<EXCEPT HAS>
C510	87-016-669-080		C-CAP,S 0.1-25 K B	C853	87-A11-145-080		CAP,TC U 0.01-50 Z F<HAS>
C831	87-010-198-080		CAP, CHIP 0.022	CN201	87-099-018-010		CONN,16P
CN202	8A-CH4-689-010		CONN BASE 3P 2.5mm	CN801	87-A60-110-010		CONN,4P V S2M-4W
CN205	87-A60-109-010		CONN,2P V S2M-2W	CNA302	8A-CDB-627-010		CONN ASSY,6P MA-TUNER
CN301	87-099-416-010		CONN,3P EH H WHT	L801	87-007-342-010		COIL,OSC 85K BIAS
CN401	87-A60-424-010		CONN,16P V TOC-B	SW801	88-CT6-619-010		BACK SLIDE SW 6P2T SHORTIN
CN403	87-099-201-010		CONN,8P 6216 H				
CN802	87-049-469-010		CONN,4P V		FRONT C.B		
CNA402	8A-CDB-622-010		CONN ASSY,6P CD-MOTOR	C601	87-010-313-080		CAP, CHIP 18P
JW425	87-003-098-010		COIL,2.2UH K LAL02<EXCEPT HAS>	C602	87-010-315-080		C-CAP,S 27P-50 CH
JW429	87-003-098-010		COIL,2.2UH K LAL02<EXCEPT HAS>	C603	87-010-415-040		CAP,E 10-50 5L
JW442	87-003-098-010		COIL,2.2UH K LAL02<EXCEPT HAS>	C604	87-010-312-080		C-CAP,S 15P-50 CH
L401	87-003-102-080		COIL, 10UH	C605	87-010-317-080		C-CAP,S 39P-50 CH
L402	87-003-098-010		COIL,2.2UH K LAL02<EXCEPT HAS>				
L404	87-003-152-080		COIL, 100UH	C606	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
R840	87-029-124-010		RES,FUSE 2.2-1/4				<EXCEPT EZS>
SFR430	87-024-437-080		SFR100K,RH063EC	C607	87-010-196-080		CHIP CAPACITOR,0.1-25
X401	8Z-CD5-633-010		VIB, CER16.93MHZ FCR16.93M2	C608	87-010-196-080		CHIP CAPACITOR,0.1-25
				C610	87-010-555-040		CAP,E 100-10 GAS
				C611	87-010-196-080		CHIP CAPACITOR,0.1-25
TAPE C.B				C612	87-A10-189-040		CAP,E 220-10
C211	87-010-805-080		CAP, S 1-16	C613	87-010-495-040		CAP,E 2.2-50 GAS
C212	87-010-805-080		CAP, S 1-16	C614	87-010-196-080		CHIP CAPACITOR,0.1-25
C215	87-016-460-080		C-CAP,S 0.22-16 B	C615	87-010-493-040		CAP,E 0.47-50 GAS
C216	87-016-460-080		C-CAP,S 0.22-16 B	C616	87-010-494-040		CAP,E 1-50 GAS
C231	87-010-213-080		C-CAP,S 0.015-50 B	C620	87-010-555-040		CAP,E 100-10 GAS
C232	87-010-213-080		C-CAP,S 0.015-50 B	C625	87-010-197-080		CAP, CHIP 0.01 DM<EXCEPT EZS>
C233	87-A10-201-080		C-CAP,S0.33-16 KB	C661	87-010-498-040		CAP,E 10-16 GAS
C234	87-A10-201-080		C-CAP,S0.33-16 KB	CN601	87-099-033-010		16P 6216 H
C235	87-016-669-080		C-CAP,S 0.1-25 K B	CN602	87-099-201-010		CONN,8P 6216 H
C236	87-016-669-080		C-CAP,S 0.1-25 K B	CNA603	8A-CHB-616-010		CONN ASSY,4P TU-FR(DIGITAL)
C237	87-010-408-080		CAP, ELECT 47-50V	CNA604	8A-CHB-617-010		CONN ASSY,2P VOL-KEY
C239	87-010-197-080		CAP, CHIP 0.01 DM	CNA606	8A-CHB-621-010		CONN ASSY,8P FUNCNT-KEY
C240	87-010-197-080		CAP, CHIP 0.01 DM	L601	87-003-171-010		COIL,15UH TROIDAL
C247	87-010-401-080		CAP, ELECT 1-50V	LCD601	8A-CHB-625-010		LCD,HLC7107ACH-11
C248	87-010-401-080		CAP, ELECT 1-50V	LED602	88-CD6-630-010		LED,934ID RED
C309	87-010-197-080		CAP, CHIP 0.01 DM	LED603	88-CD6-630-010		LED,934ID RED
C310	87-010-248-080		CAP, ELECT 220-10V	LED604	88-CD6-630-010		LED,934ID RED
C316	87-010-384-080		CAP, ELECT 100-25V	LED608	88-CD6-630-010		LED,934ID RED
C801	87-010-248-080		CAP, ELECT 220-10V	S601	8Z-CT6-636-010		SW,TACT EVQJAC04M
C805	87-012-365-080		C-CAP,S 0.027-25VBK	S604	8Z-CT6-636-010		SW,TACT EVQJAC04M
C806	87-012-365-080		C-CAP,S 0.027-25VBK	S605	8Z-CT6-636-010		SW,TACT EVQJAC04M
C807	87-010-405-080		CAP, ELECT 10-50V	S606	8Z-CT6-636-010		SW,TACT EVQJAC04M
C808	87-010-405-080		CAP, ELECT 10-50V	S607	8Z-CT6-636-010		SW,TACT EVQJAC04M
C809	87-010-405-080		CAP, ELECT 10-50V	X601	87-030-273-010		VIB,XTAL 32.768K5PPM
C810	87-010-405-080		CAP, ELECT 10-50V	X602	87-030-376-080		VIB,CER CSA5.76MG200
C811	87-010-178-080		CHIP CAP 1000P				
C812	87-010-178-080		CHIP CAP 1000P				
C816	87-010-180-080		C-CER 1500P				

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
TU C.B				CF3	87-008-261-010		FILTER, SFE10.7MA5-A<EVS>
C1	87-010-312-080	C-CAP,S 15P-50V<EVS>		CN2	87-099-194-010		CONN,6P 6216V
C1	87-010-314-080	C-CAP,S 22P-50V<EXCEPT EVS>		CN3	87-A60-110-010		CONN BASE 4P
C2	87-010-316-080	C-CAP,S 33P-50 CH		HLD1	88-CD6-661-010		HLLDR,BAR ANT.
C3	87-010-312-080	C-CAP,S 15P-50V<EVS>		HLD2	88-CD6-661-010		HLLDR,BAR ANT.
C3	87-010-314-080	C-CAP,S 22P-50V<EXCEPT EVS>		L2	87-A50-560-010		COIL,FM BPF(ACD)
C5	87-A11-067-080	C-CAP,S 1-10 K B		L3	8A-CH4-670-010		BAR-ANT,MW 2B-ACH(COI)<HRS,HAS>
C6	87-010-313-080	CAP, CHIP 18P<HRS,HAS>		L3	8A-CH4-671-010		BAR-ANT,MW/LW 3B-ACH(COI)<EVS>
C7	87-014-049-080	CAP,PP 470P-100 J<EXCEPT HRL>		L4	87-A50-420-010		COIL,MW OSC(SYN)<EXCEPT HRL>
C8	87-012-349-080	C-CAP,S 1000P-50 CH		L4	87-A50-572-010		COIL,MW OSC-HE(ACH)<HRL>
C10	87-010-197-080	CAP, CHIP 0.01 DM		L5	87-A50-566-010		COIL,FM RF EX(ACH)
C10	87-010-197-080	CAP, CHIP 0.01 DM		L6	87-A50-568-010		COIL,FM OSC EX(ACH)
C11	87-010-197-080	CAP, CHIP 0.01 DM		L7	87-A91-308-010		FLTR,PCFAZH- 450T (TOK)
C12	87-010-197-080	CAP, CHIP 0.01 DM		L8	87-005-849-080		COIL,10UH(CECS)
C13	87-010-150-080	C-CAP,S 6P-50 CH		L51	87-A50-421-010		COIL,LW OSC(SYN)<EVS>
C14	87-010-303-080	C-CAP,S 330P-50CH		TC1	87-011-254-080		TRIMER,20P LAR
C15	87-012-349-080	C-CAP,S 1000P-50 CH		TC51	87-011-233-080		TRIMER,50P VCT54<EVS>
C16	87-010-374-080	CAP, ELECT 47-10V		X1	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
C17	87-010-198-080	CAP, CHIP 0.022					
C18	87-015-835-080	C-CAP,0.047 D		HP C.B			
C19	87-010-263-080	CAP, ELECT 100-10V		CN203	87-049-469-010		CONN,4P V
C20	87-010-404-080	CAP, ELECT 4.7-50V		J251	87-009-216-010		JACK, DIA 3.5
C21	87-010-197-080	CAP, CHIP 0.01 DM					
C22	87-010-197-080	CAP, CHIP 0.01 DM		LED C.B			
C23	87-010-197-080	CAP, CHIP 0.01 DM		CN607	87-009-236-010		CONN 8P PH H
C25	87-016-460-080	C-CAP,S 0.22-16 B		LED605	88-CD6-630-010		LED,934ID RED
C26	87-018-131-080	CAP, CER 1000P-50V		LED606	88-CD6-630-010		LED,934ID RED
C27	87-A11-067-080	C-CAP,S 1-10 K B		LED611	88-CD6-631-010		LED,934GD GRN
C28	87-016-669-080	C-CAP,S 0.1-25 K B		S608	8Z-CT6-636-010		SW,TACT EVQJAC04M
C29	87-016-669-080	C-CAP,S 0.1-25 K B		S609	8Z-CT6-636-010		SW,TACT EVQJAC04M
C30	87-010-213-080	C-CAP,S 0.015-50 B<EXCEPT HAS>		S610	8Z-CT6-636-010		SW,TACT EVQJAC04M
C30	87-010-198-080	CAP, CHIP 0.022<HAS>		S611	8Z-CT6-636-010		SW,TACT EVQJAC04M
C31	87-010-213-080	C-CAP,S 0.015-50 B<EXCEPT HAS>		S613	8Z-CT6-636-010		SW,TACT EVQJAC04M
C31	87-010-198-080	CAP, CHIP 0.022<HAS>					
C33	87-A11-729-080	C-CAP,0.47-16V Y5V		VOL C.B			
C34	87-A11-729-080	C-CAP,0.47-16V Y5V		CN608	84-722-632-010		CONN,2P H
C35	87-015-819-080	CAPACITOR,0.01		S614	8Z-CT6-636-010		SW,TACT EVQJAC04M
C36	87-010-263-080	CAP, ELECT 100-10V		S615	8Z-CT6-636-010		SW,TACT EVQJAC04M
C37	87-010-197-080	CAP, CHIP 0.01 DM					
C38	87-010-374-080	CAP, ELECT 47-10V		PWR C.B			
C39	87-010-404-080	CAP, ELECT 4.7-50V		C901	87-018-205-080		CAP, CERA-SOL 0.022
C40	87-010-197-080	CAP, CHIP 0.01 DM		C902	87-018-205-080		CAP, CERA-SOL 0.022
C41	87-012-349-080	C-CAP,S 1000P-50 CH		C903	87-018-205-080		CAP, CERA-SOL 0.022
C42	87-012-349-080	C-CAP,S 1000P-50 CH		C904	87-018-205-080		CAP, CERA-SOL 0.022
C43	87-012-349-080	C-CAP,S 1000P-50 CH		CNA901	8A-CDB-621-010		CONN ASSY,3P POWER
C44	87-010-311-080	CAP 12P		PR901	87-A90-092-080		PROTECTOR,2.5A 491
C45	87-010-312-080	C-CAP,S 15P-50 CH					
C46	87-010-197-080	CAP, CHIP 0.01 DM		MOTOR C.B			
C47	87-010-197-080	CAP, CHIP 0.01 DM		M2	9X-262-576-910		MOTOR GEAR ASSY
C48	87-010-197-080	CAP, CHIP 0.01 DM		PIN3	91-564-722-110		CONNECTOR 6P
C49	87-012-140-080	CAP 470P		SW1	91-572-085-120		LEAF SW
C50	87-010-197-080	CAP, CHIP 0.01 DM					
C51	87-010-316-080	C-CAP,S 33P-50 CH<EXCEPT EVS>		BATT C.B			
C52	87-010-197-080	CAP, CHIP 0.01 DM<EVS>					
C53	87-010-197-080	CAP, CHIP 0.01 DM<EVS>					
C54	87-014-055-080	CAP,PP 820P-100 J<EVS>					
C55	87-010-197-080	CAP, CHIP 0.01 DM<EVS>					
C61	87-010-184-080	CHIP CAPACITOR 3300P(K)<HRL>					
C64	87-010-314-080	C-CAP,S 22P-50V					
C71	87-010-197-080	CAP, CHIP 0.01 DM					
C72	87-010-263-080	CAP, ELECT 100-10V					
C73	87-010-197-080	CAP, CHIP 0.01 DM					
C91	87-010-197-080	CAP, CHIP 0.01 DM<EXCEPT EVS>					
C92	87-010-197-080	CAP, CHIP 0.01 DM					
C93	87-010-197-080	CAP, CHIP 0.01 DM					
CF1	87-A91-094-010	FLTR,CDA10.7 MG80A					
CF2	82-785-747-080	CF,MS2 GHY,R<EXCEPT EVS>					
CF2	87-008-261-010	FILTER, SFE10.7MA5-A<EVS>					
CF3	82-785-747-080	CF,MS2 GHY,R<EXCEPT EVS>					

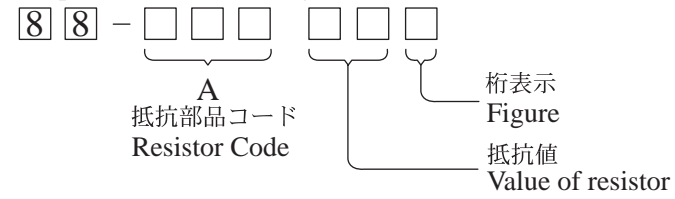
LCD DISPLAY
LCD, HLC7107ACH-11

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

○チップ抵抗部品コード/CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

Chip Resistor Part Coding



チップ抵抗
Chip resistor

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

TRANSISTOR ILLUSTRATION

ECB ECB G E ECB ECB

2SB1655E DTC114TS 2SK302GR 2SA1162Y 2SA933RS 2SA933S

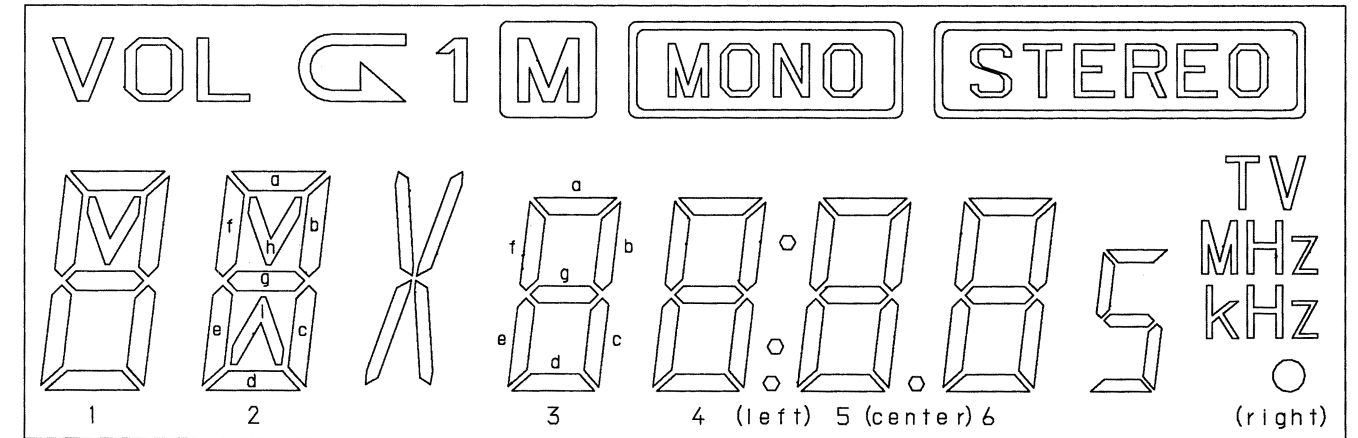
2SC2712 2SC1740S R 2SA1296

2SC2714 DTC124XS 2SA1318TU

DTA114YK 2SC1740 S

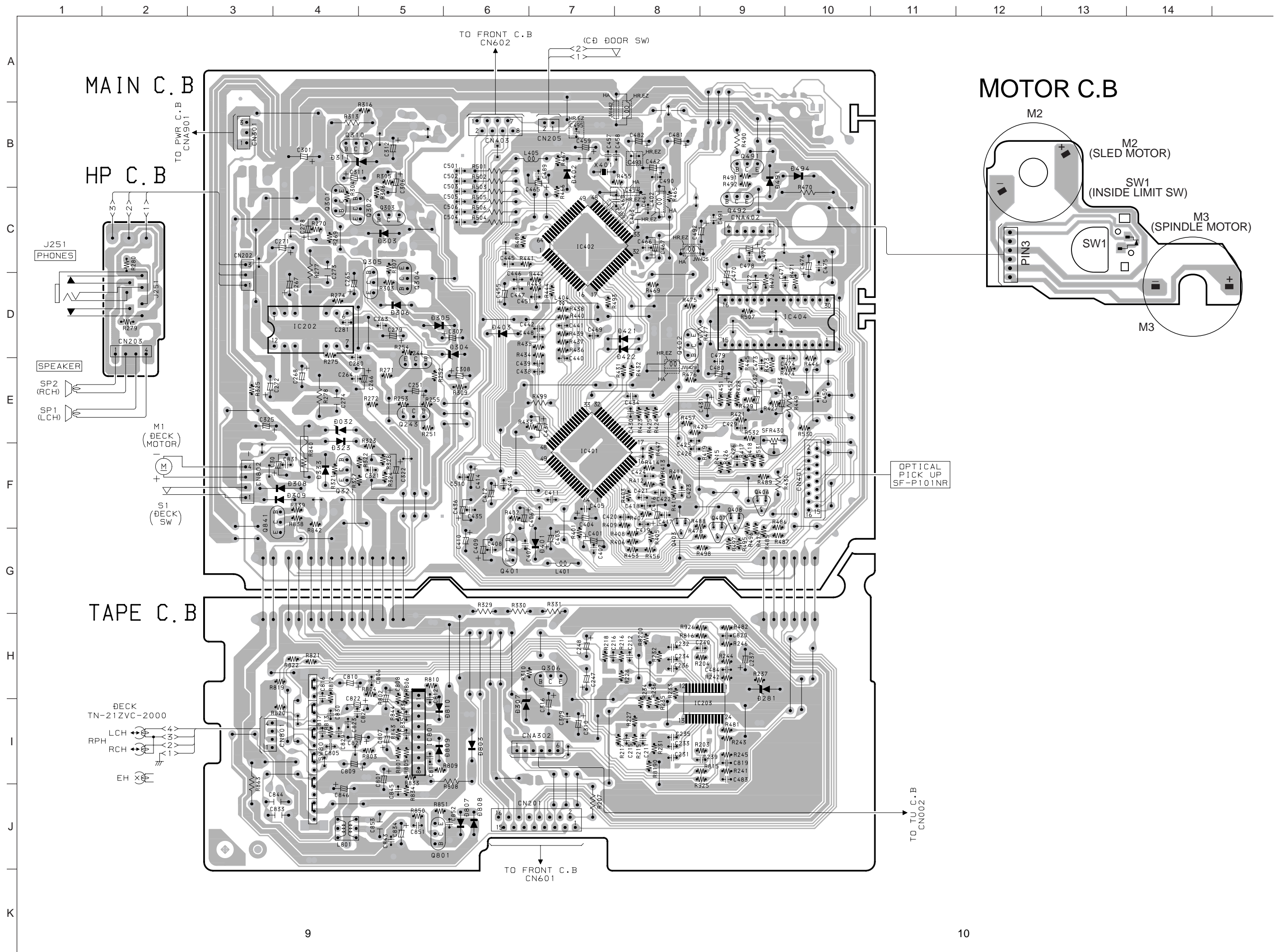
DTC114TK 2SC1815

DTC114YK 2SC2001

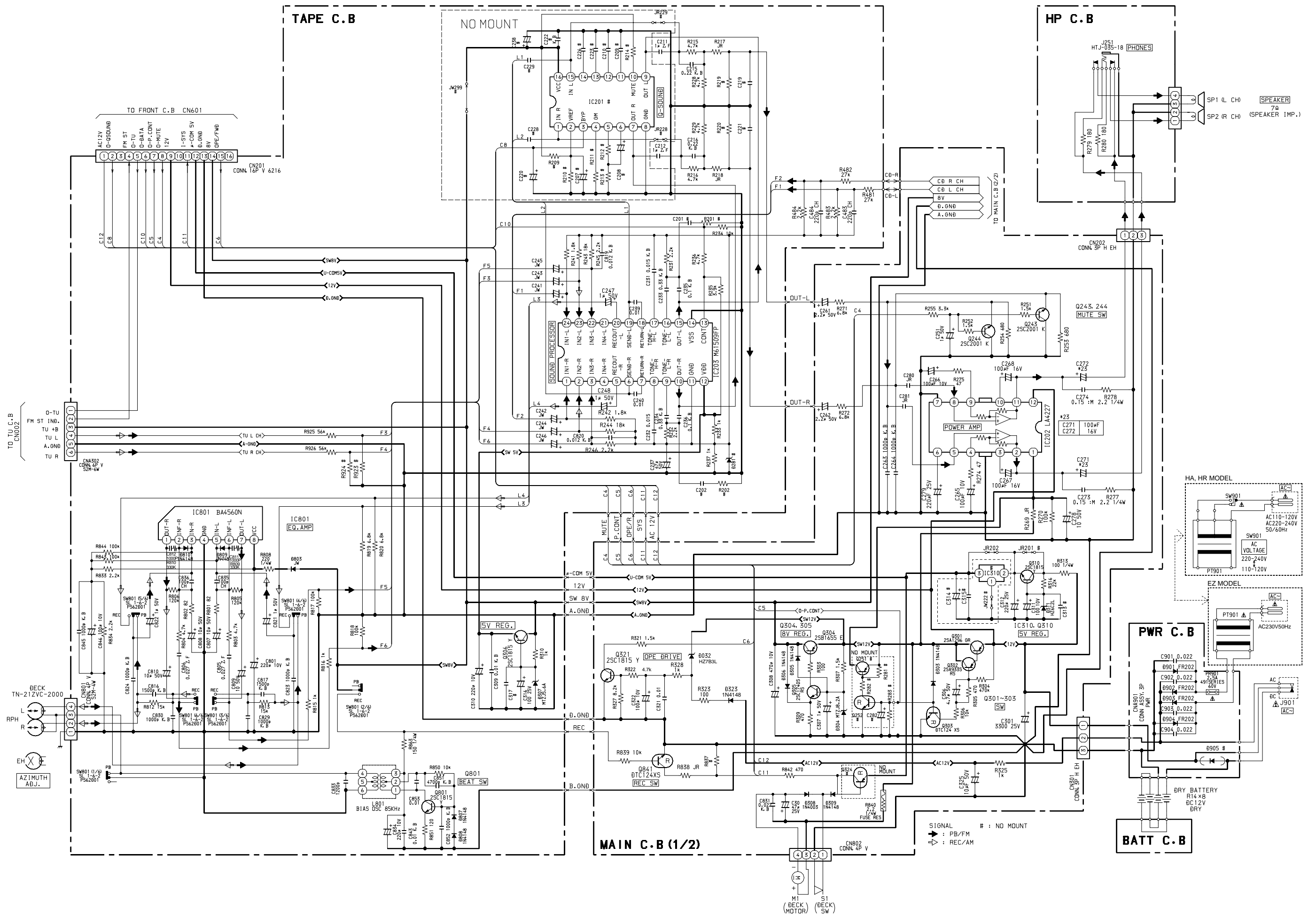


NO.	COM. 1	COM. 2	COM. 3
1	2b	2c	2d
2	1b	1c	1d
3	1a	1f	1e
4	1h	1g	VOL
5	2a	2f	2e
6	2h	2g	2i
7	3f	3e	G
8	3a	3g	3d
9	3b	3c	1
10	4f	4e	M
11	4a	4g	4d
12	4b	4c	X
13	•	• (left)	MONO
14	5f	5e	• (right)
15	5a	5g	5d
16	5b	5c	• (center)
17	6f	6e	STEREO
18	6a	6g	6d
19	6b	6c	5
20	TV	MHz	kHz
21	COM. 1		
22		COM.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

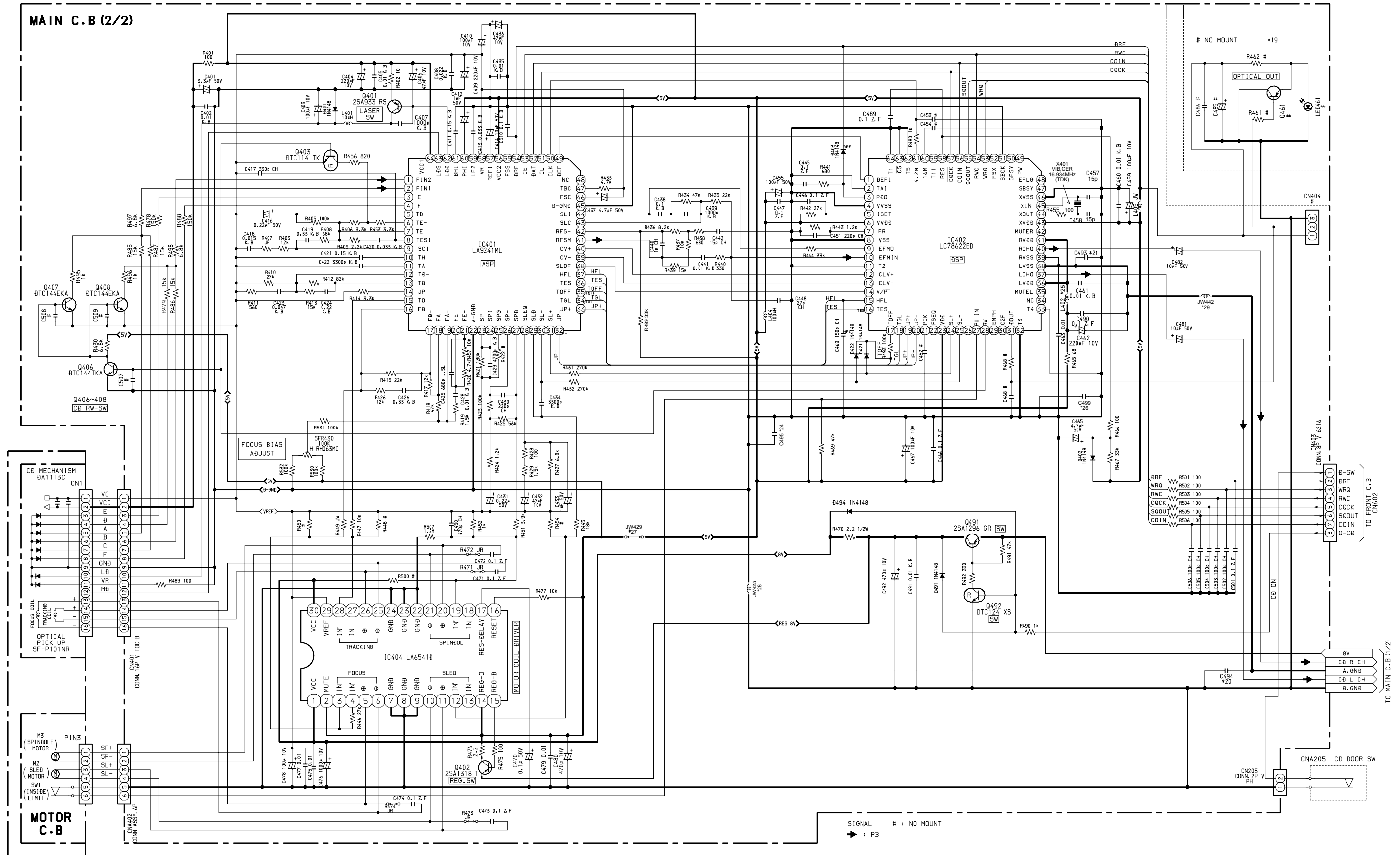
WIRING-1 (MAIN/TAPE)



SCHEMATIC DIAGRAM-1 (MAIN)

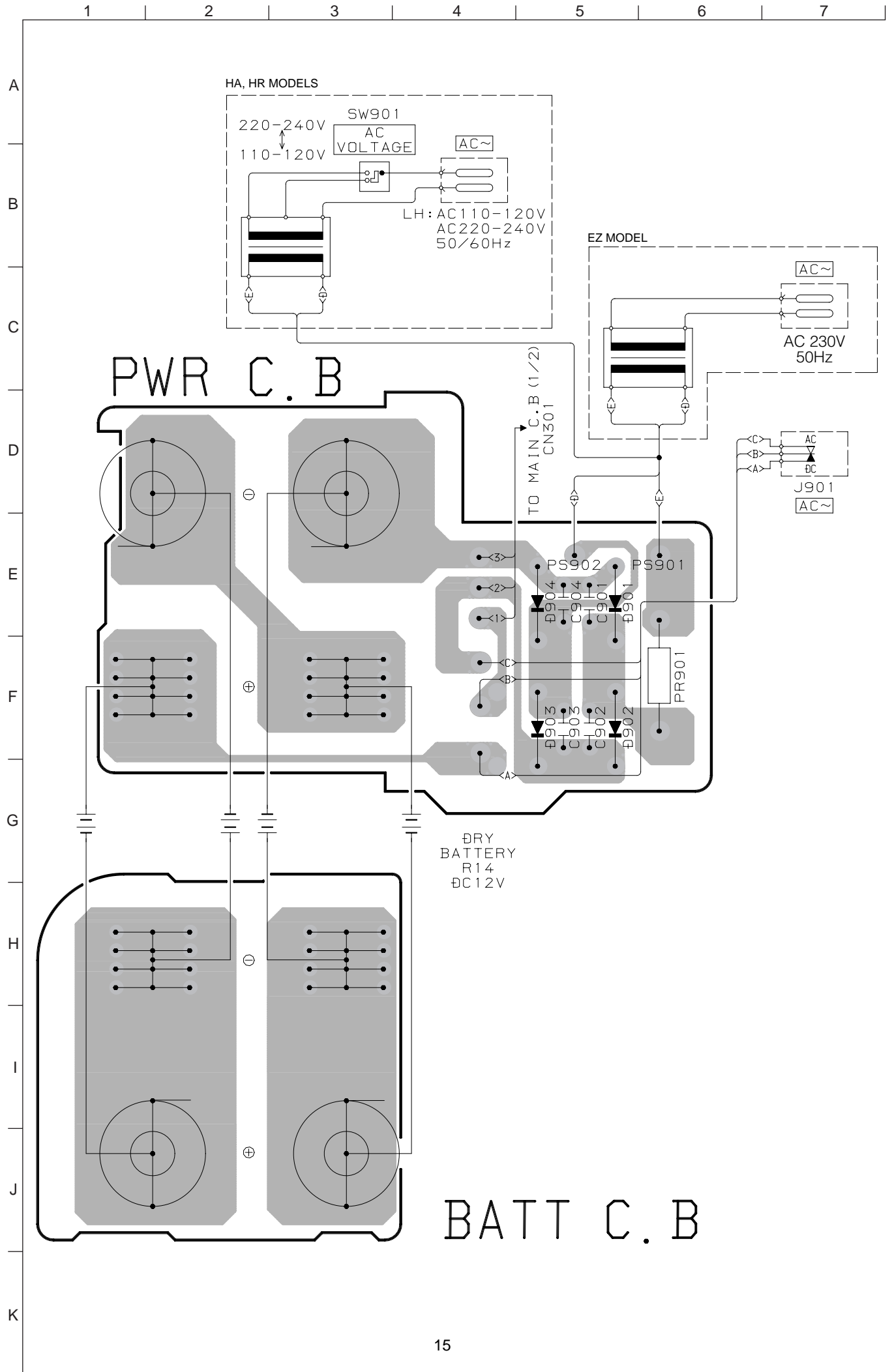


SCHEMATIC DIAGRAM-2 (CD)

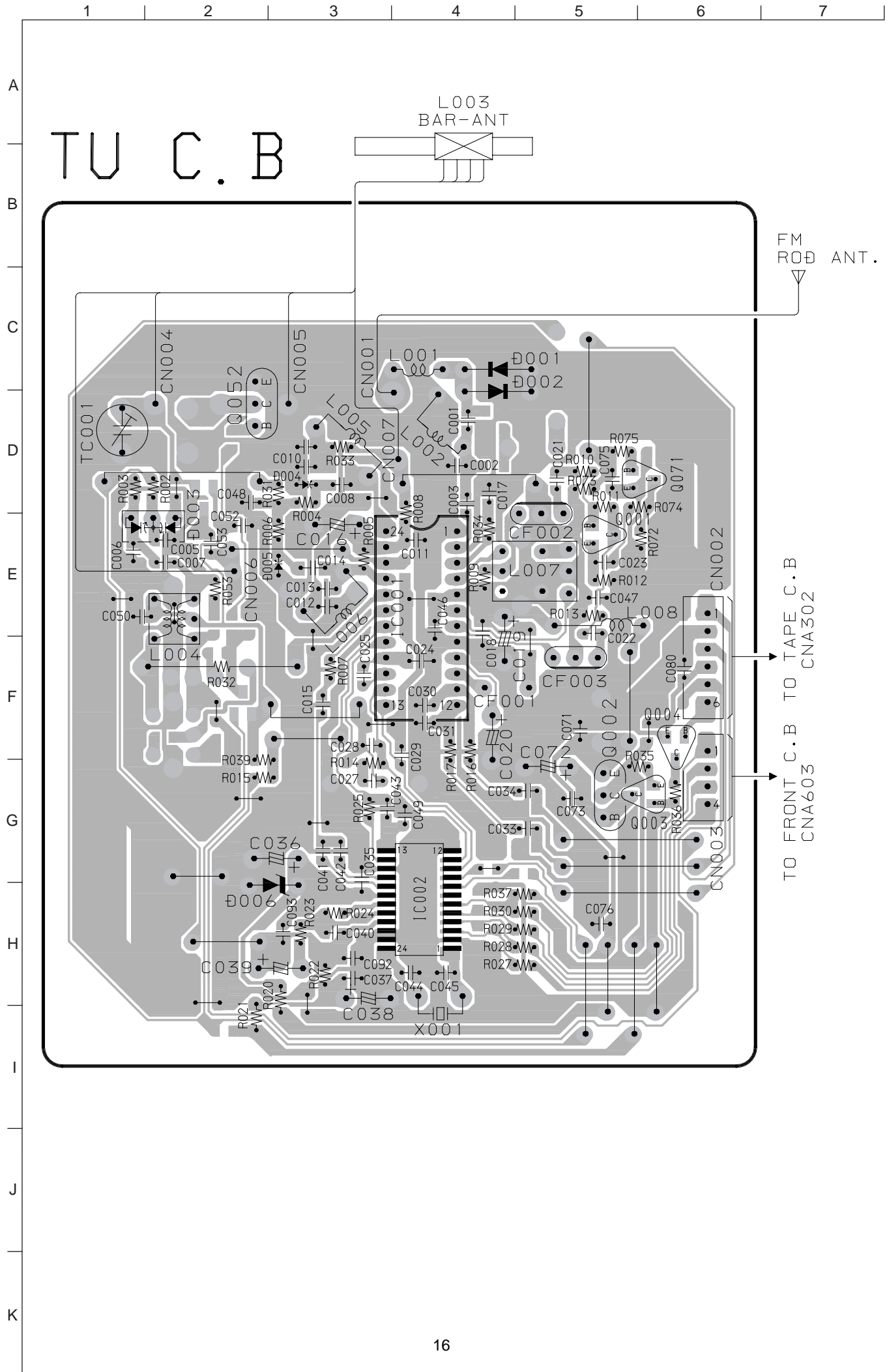


	*18 (OPTI OUT)	*20 (C494)	*21 (C493)	*24 (C495)	*25 (LA02)	*26 (C499)	*27 (JW429)	*28 (JW425)	*29 (JW442)
HA	NO MOUNT	0.01	NM	NM	NM	NM	NM	NM	NM
HR		0.01	0.01	2.2k	120p	COIL 2.2k	COIL 2.2k	COIL 2.2k	
EZ									

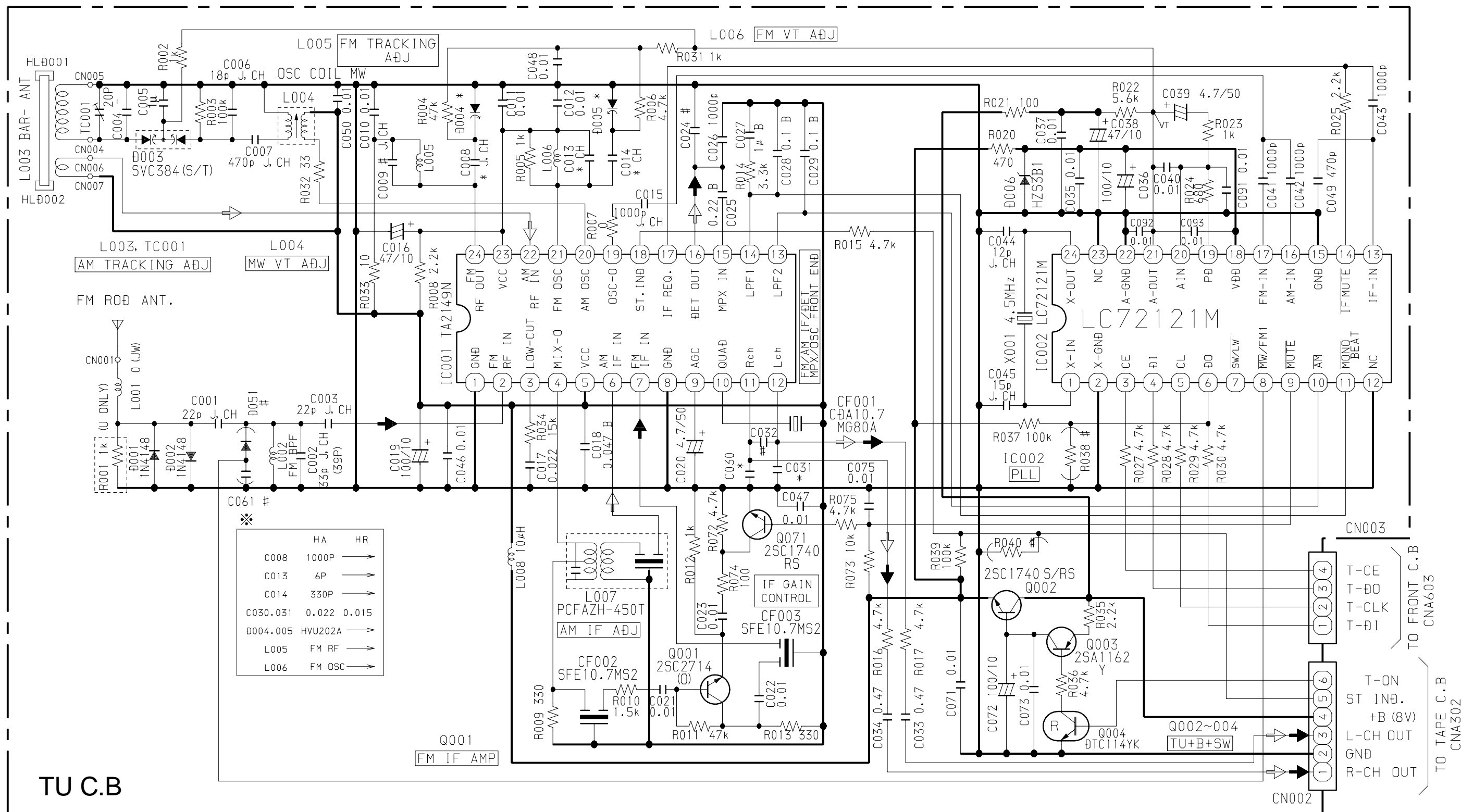
WIRING-2 (POWER)



WIRING-3 (TU: HA, HR)



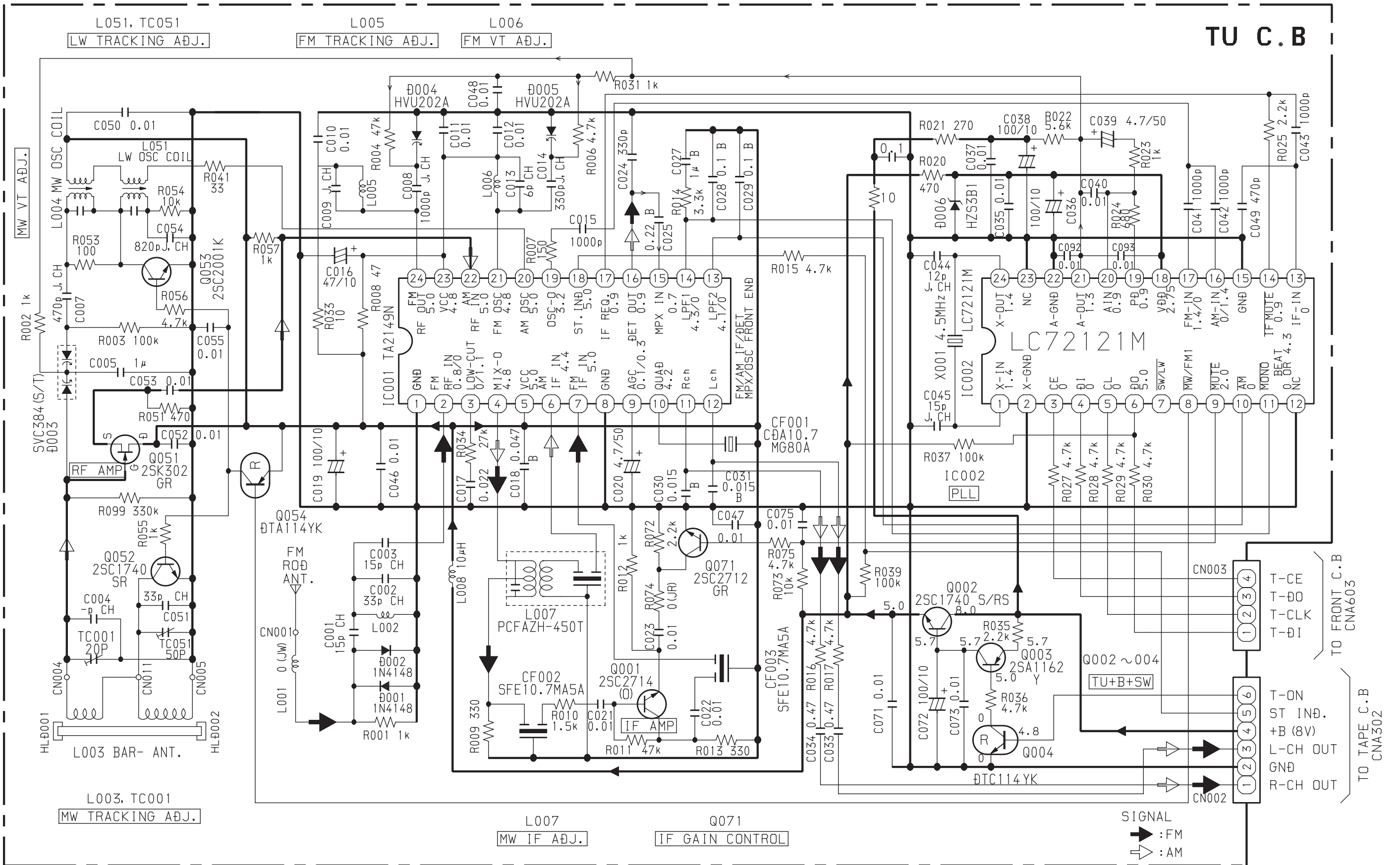
SCHEMATIC DIAGRAM-3 (TUNER: HA, HR)



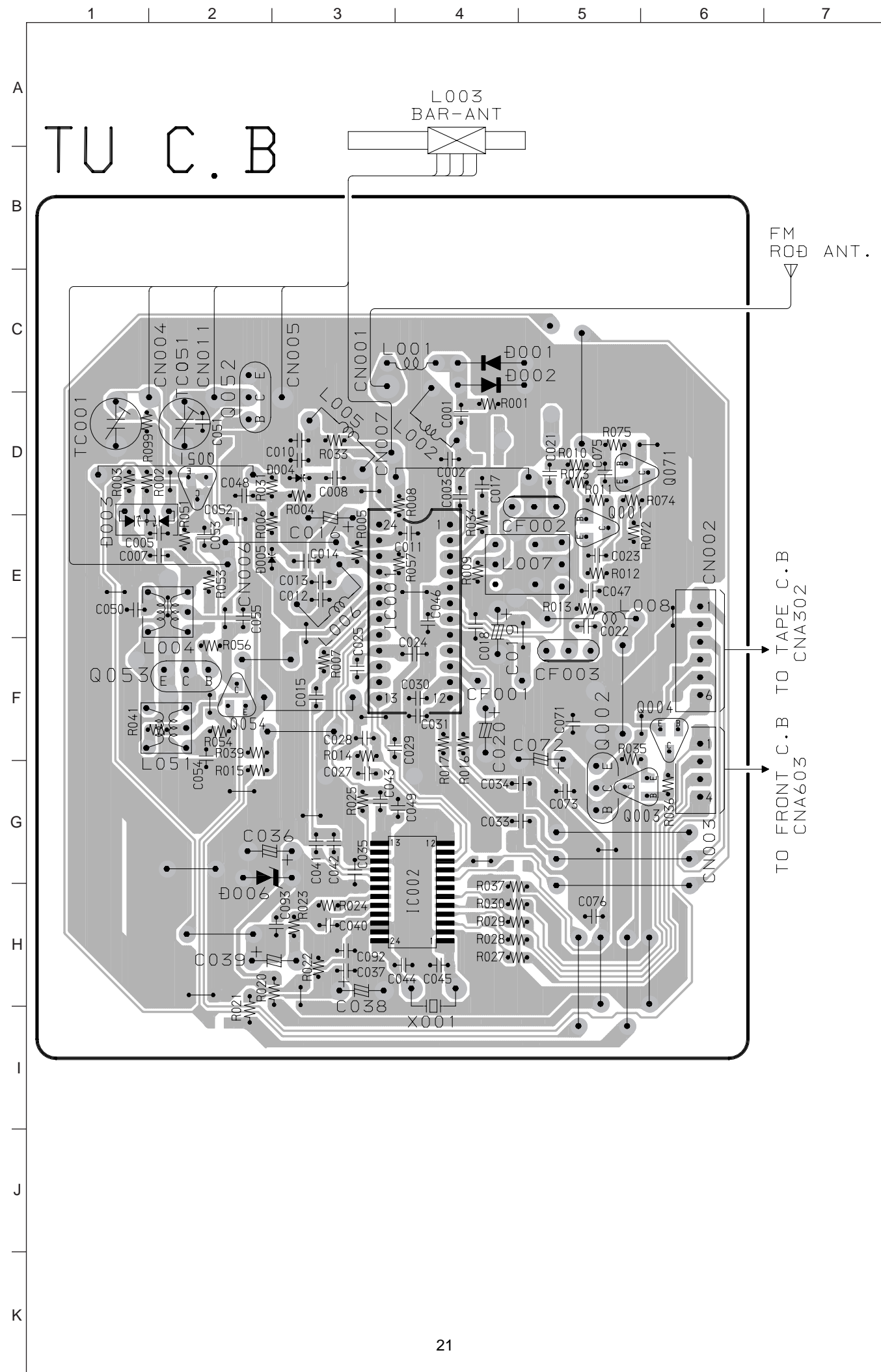
SIGNAL
 → : FM
 ↘ : AM

#: NO MOUNT

TU C.B

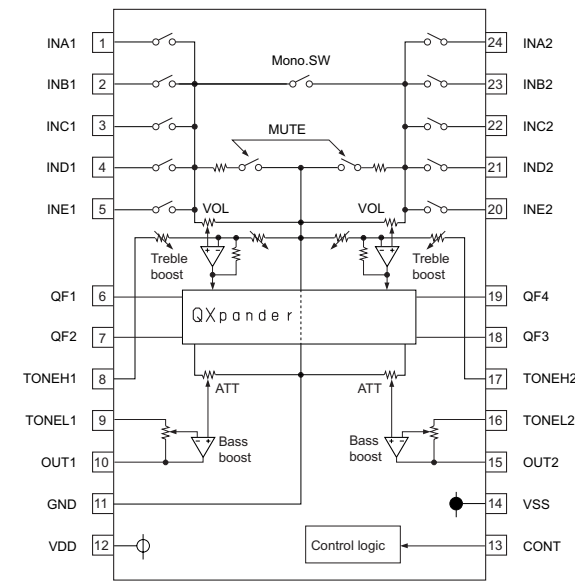


WIRING-4 (TUNER: EZ)

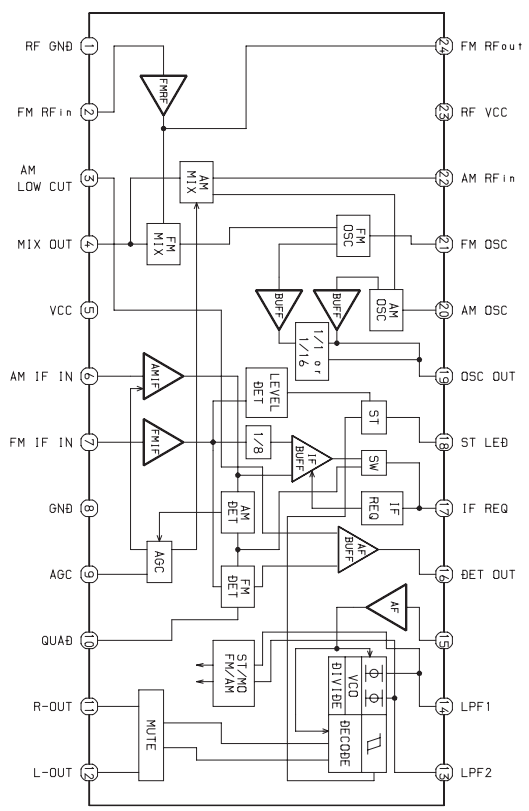


IC BLOCK DIAGRAM

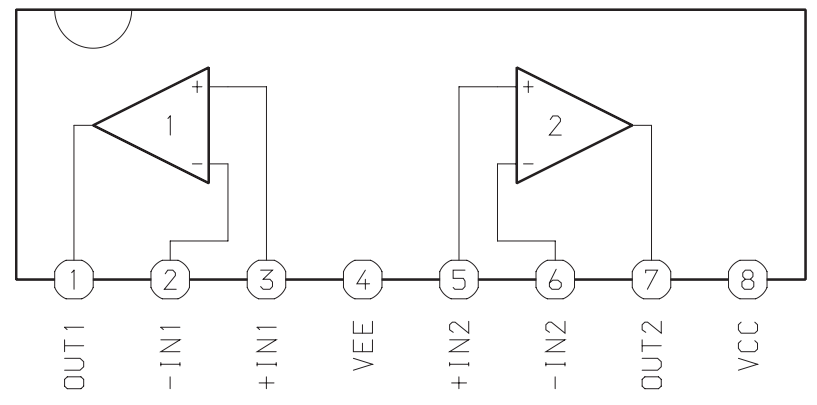
IC, M61509FP



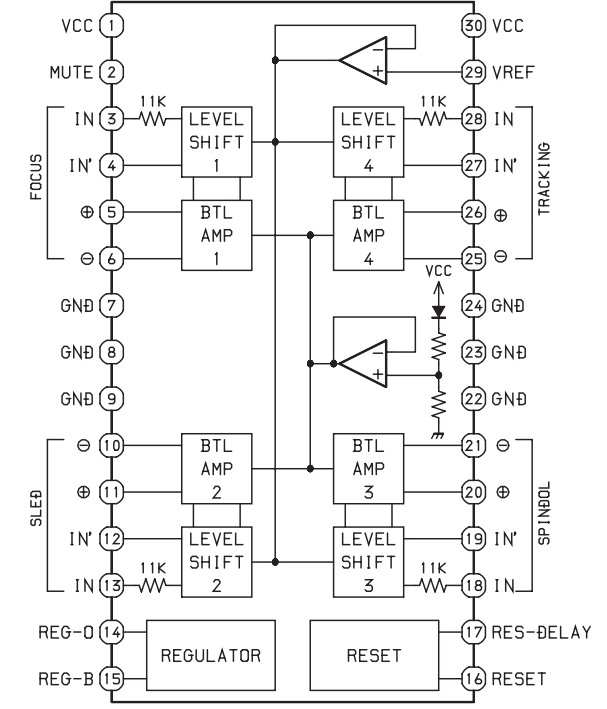
IC, TA2149N



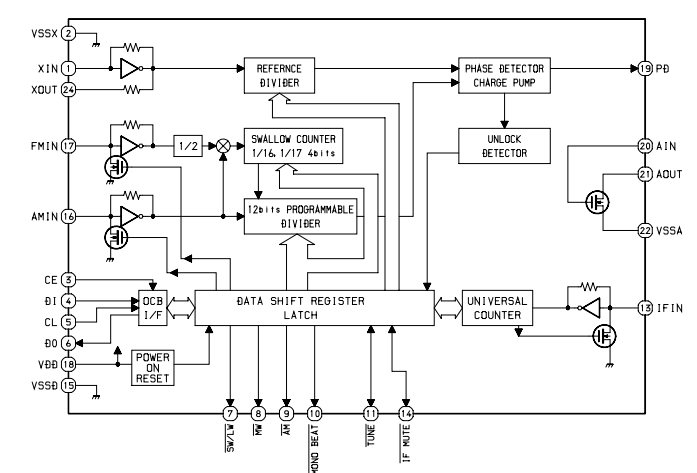
IC, BA4560N



IC, LA6541D



IC, LC72121M

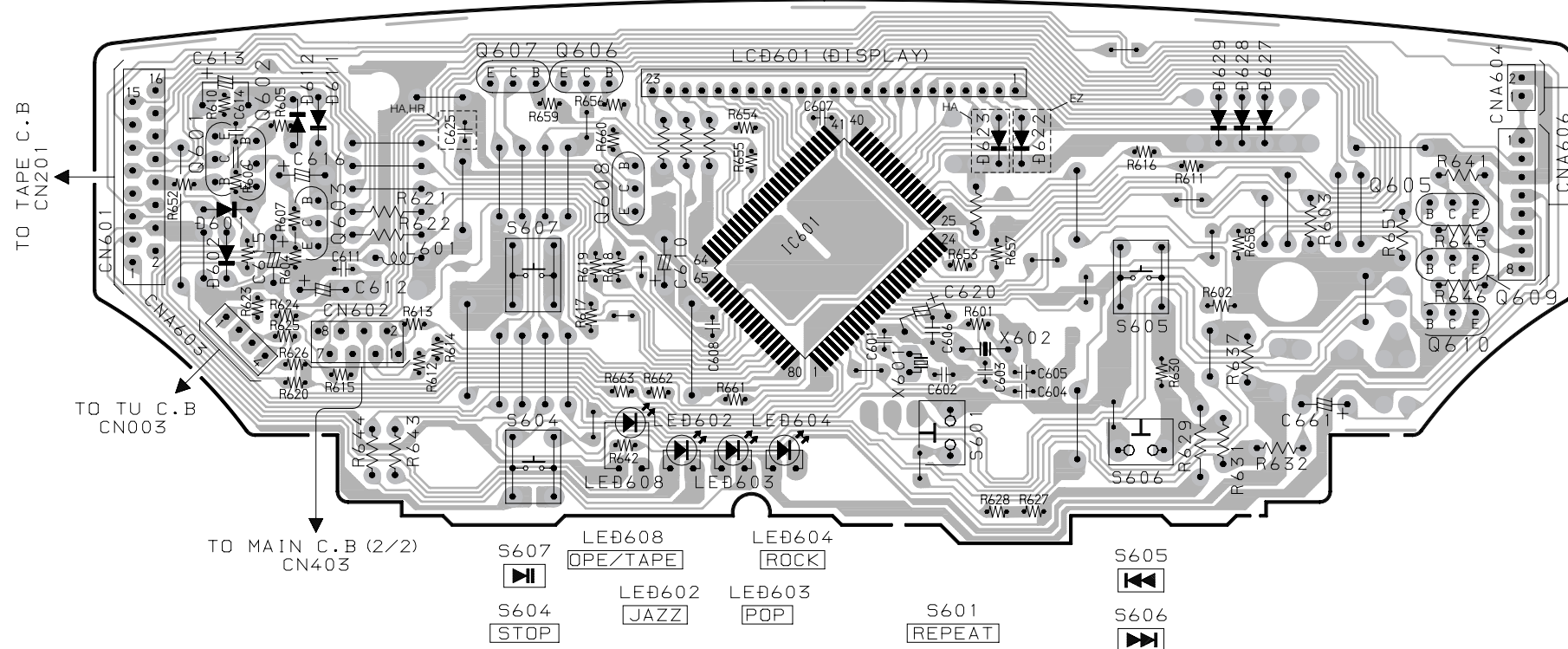


WIRING-5 (FRONT)

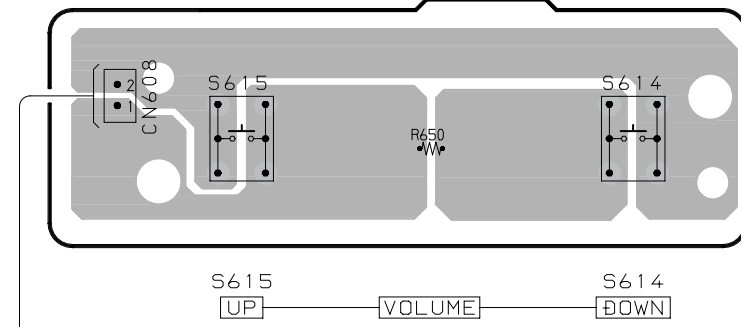
1 2 3 4 5 6 7 8 9 10 11 12 13 14

A
B
C
D
E
F
G
H
I
J
K

FRONT C.B

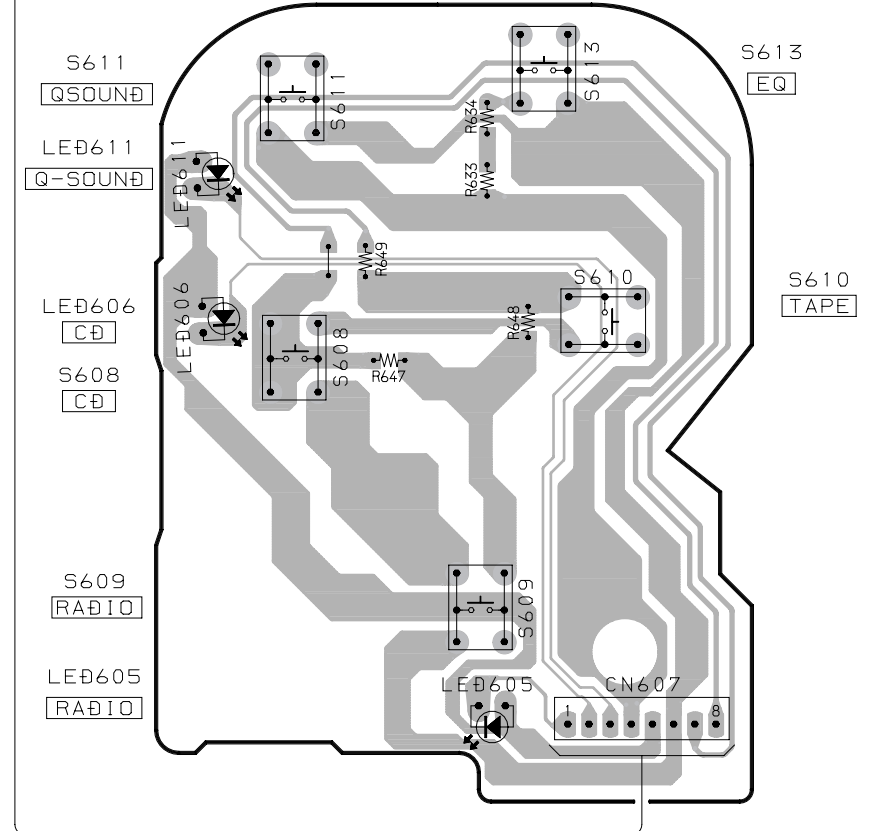


VOL C. B

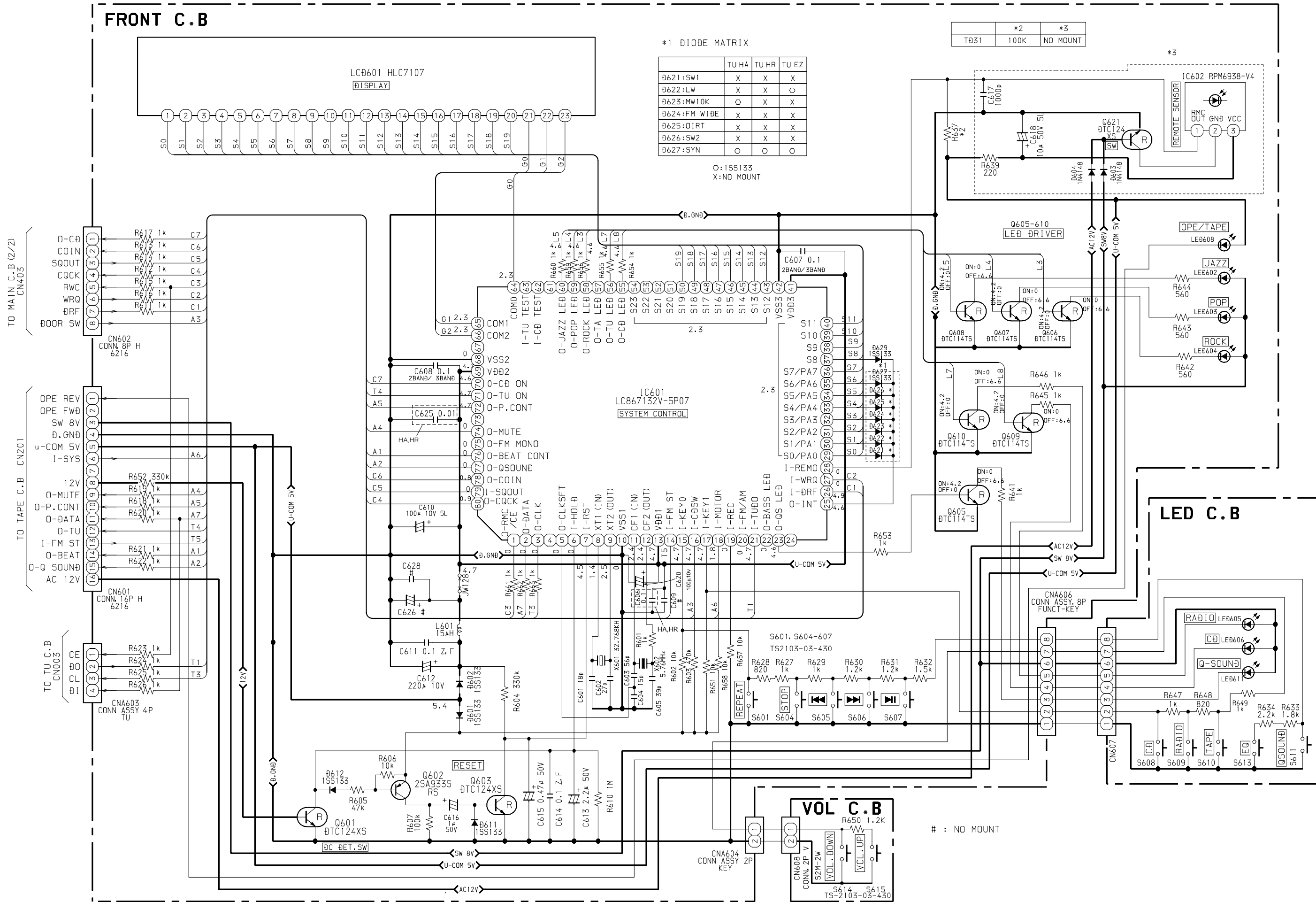


S615 [UP] VOLUME S614 [DOWN]

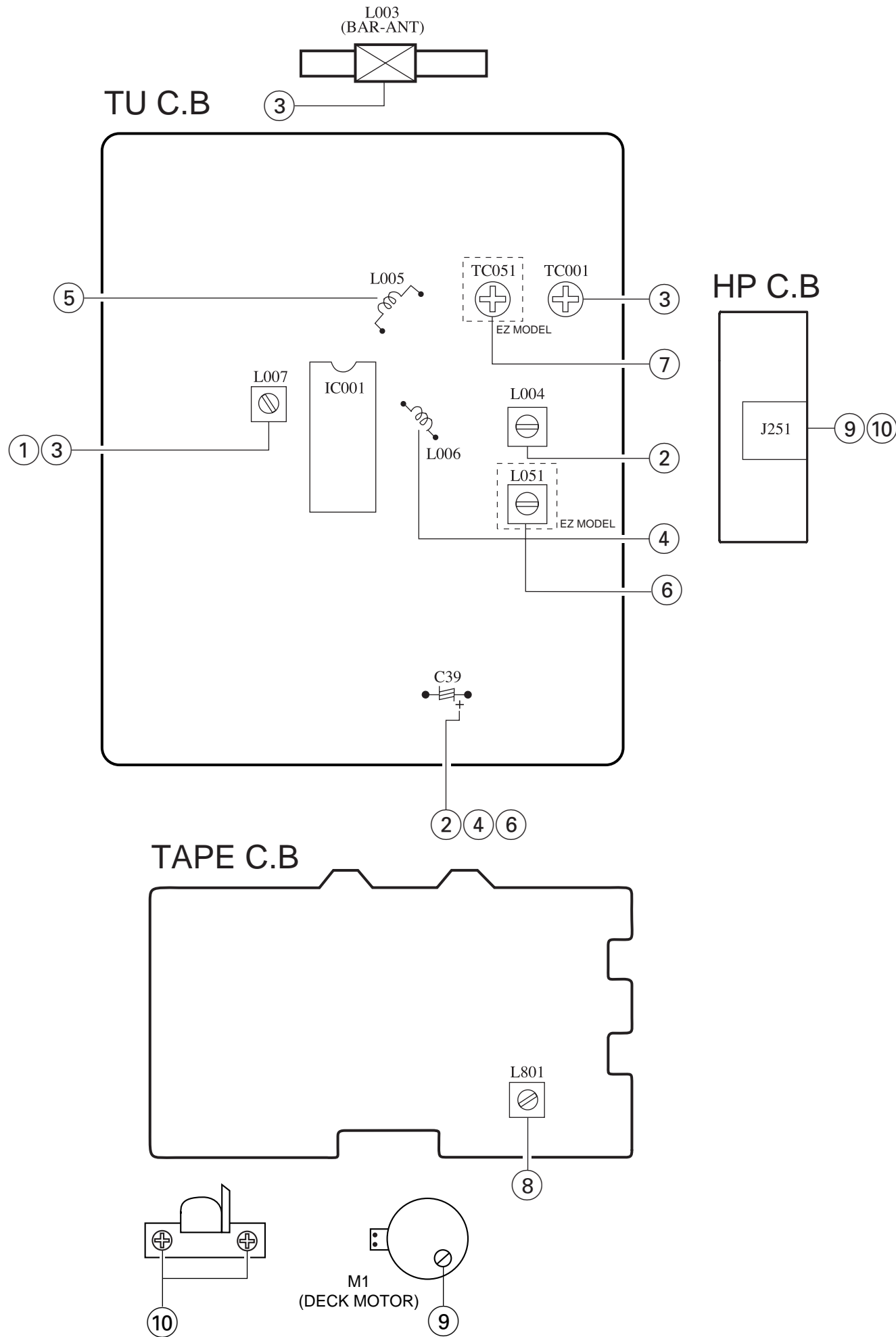
LED C. B



SCHEMATIC DIAGRAM-5 (FRONT)



ELECTRICAL ADJUSTMENT



< TUNER SECTION >

(HA, HR MODEL)

- AM IF Adjustment
L007 450kHz
- AM VT Adjustment
Settings: • Test point: C39⊕
• Adjustment location: L004
(HA MODEL)
Method: Set to AM 1000kHz adjust L004 so that the test point becomes 3.24 V±0.02V
(HR MODEL)
Method: Set to MW 999kHz adjust L004 so that the test point becomes 3.24 V±0.02V
- AM Tracking Adjustment
L003 600kHz
TC001, L007 1400kHz

- 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
- FM Tracking Adjustment
L005 98MHz

(EZ MODEL)

- MW IF Adjustment
L007 450kHz
- MW VT Adjustment
Settings: • Test point: C39⊕
• Adjustment location: L004
Method: Set to MW 999kHz adjust L004 so that the test point becomes 3.8V±0.02V
- MW Tracking Adjustment
L003 603kHz
TC001, L007 1404kHz
- 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
- FM Tracking Adjustment
L005 98MHz
- 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
- LW Tracking Adjustment
L003 153kHz
TC051 288kHz

< TAPE SECTION >

- Bias frequency Adjustment
L801 85Hz ±1kHz
- Tape speed Adjustment
Settings: • Test tape: TTA-100
• Test point: PHONES JACK (J251)
• Adjustment location: SFR of deck motor
Method: Play back the test tape and adjust so that the output frequency is 3000Hz ±30Hz.
- Azimuth Adjustment
Settings: • Test tape: TTA-320
• Test point: PHONES JACK (J251)
• Adjustment location: Azimuth adjustment screw
Method: Play back the test tape and adjust so that the output is maximum.

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

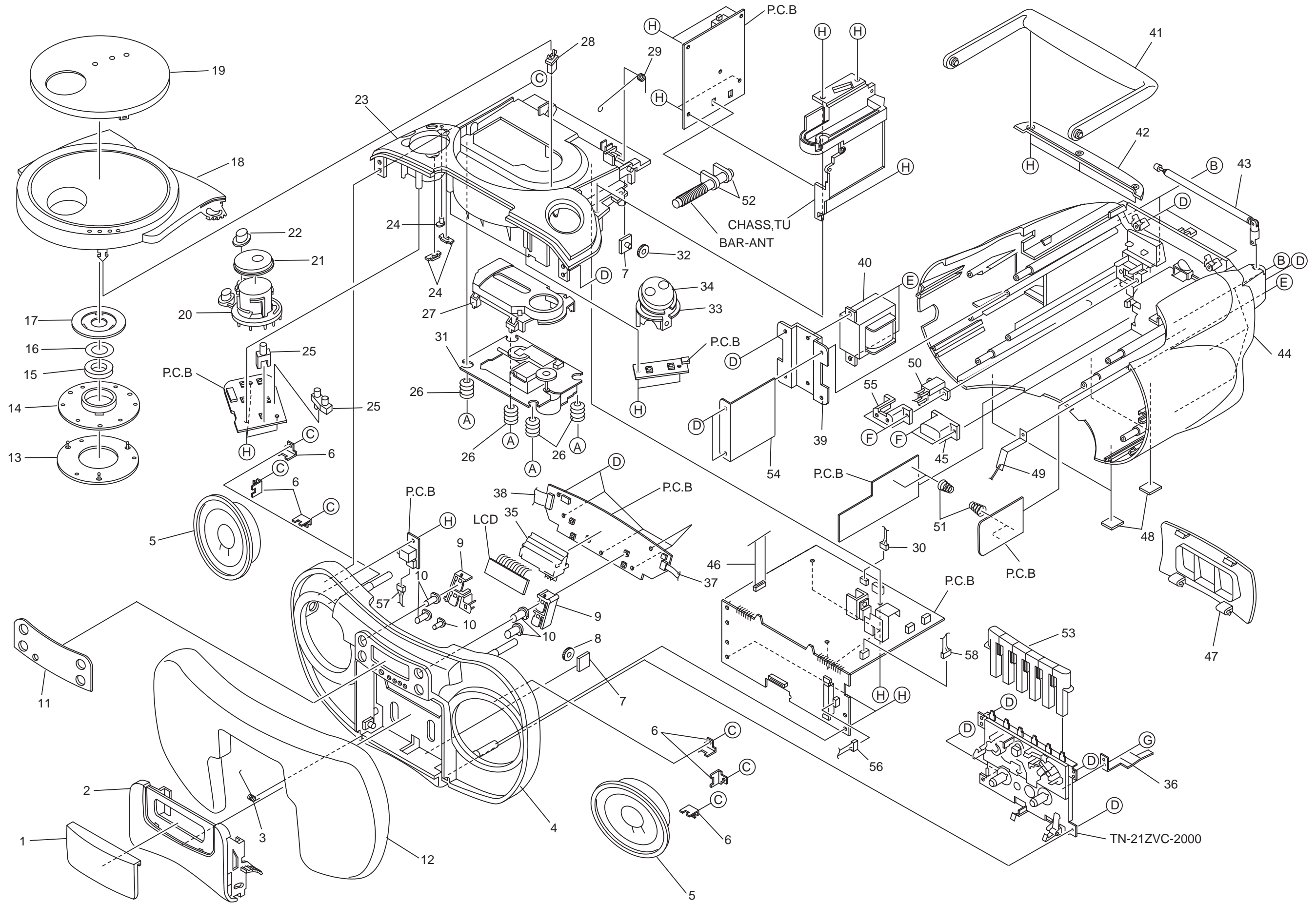
Pin No.	Pin Name	I/O	Description	
1	DEFI	I	Defect sense signal (DEF) input pin. (Connect to 0V when not used).	
2	TAI	I	For PLL.	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.
3	PDO	O		Phase comparator output pin to control external VCO.
4	VVSS	—		GND pin for built-in 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	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, write 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/PAO (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

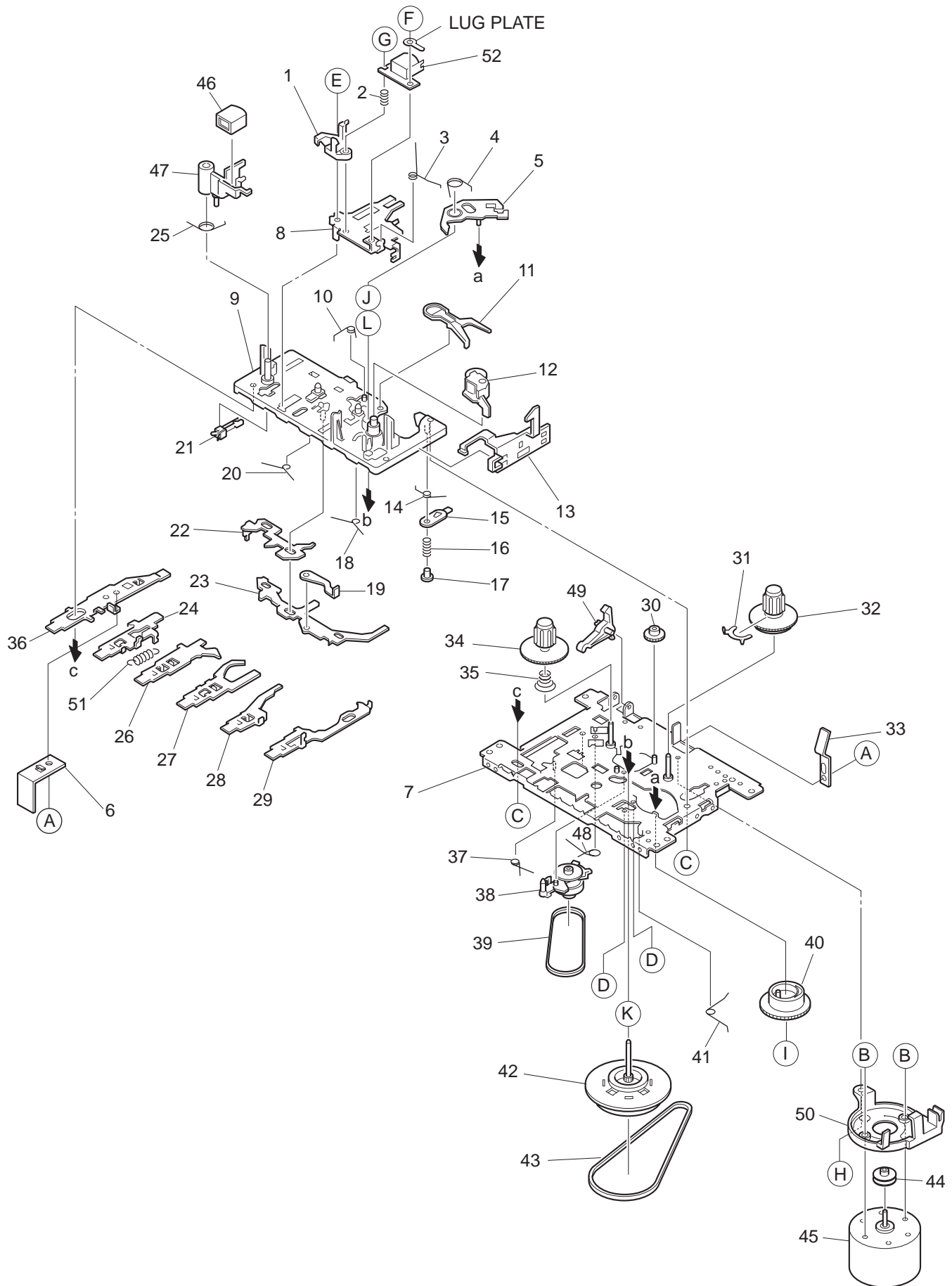
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
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REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CDB-006-010		WINDOW,CASS<EXCEPT HRL>	34	8A-CDB-012-010		BTN,VOL<EXCEPT HRL>
1	8A-CDB-061-010		WINDOW,CASS BL<HRL>	34	8A-CDB-065-010		BTN,VOL BL<HRL>
2	8A-CDB-008-010		BOX,CASS<EXCEPT HRL>	35	8A-CHB-202-010		HLDR,LCD
2	8A-CHB-037-010		BOX,CASS BL<HRL>	36	8A-CDB-212-010		PLATE,REC
3	8A-CDB-204-010		SPR-T,CASS	37	8A-CHB-619-010		FF-CABLE, 8P 1.25 CD-FR
4	8A-CDB-001-010		CABI,FR	38	8A-CHB-618-010		FF-CABLE, 16P 1.25 FR-MAIN
5	88-CD8-622-010		SPKR,F 77 70HM 3W	39	8A-CDB-219-010		HLDR,TRAN
6	8Z-CDB-208-010		HLDR,SPKR	40	8A-CDB-653-010	▲	PT,E 2.5W EI48X23<EZS>
8	87-063-164-010		OIL-DMPR 80	40	8A-CDB-651-010	▲	PT,H 2.5W EI48X23<EXCEPT EZS>
9	8A-CDB-206-010		BASE,CD	41	8A-CDB-019-010		HANDL,GRIP
10	8A-CDB-016-010		BTN,CD	42	8A-CDB-018-010		COVER, HANDL
11	8A-CHB-047-010		WINDOW,DISP EX BL<HRL>	43	8Z-CH4-640-010		ANT,ROD
11	8A-CHB-013-010		WINDOW,DISPLAY<HAS>	44	8A-CHB-001-010		CABI,REAR
11	8A-CHB-016-010		WINDOW,DISPLY<EZS,HRS>	45	87-A91-369-010	▲	SW,AC SL 2 2 2 SDKGA41700
12	8A-CDB-023-010		GRILLE,SPKR<EXCEPT HRL>	46	8A-CDB-623-010		FF-CABLE, 16P 1.0 CD-RF
12	8A-CDB-067-010		GRILLE,SPKR BL<HRL>	47	8A-CDB-020-010		LID,BATT
13	8Z-CT6-213-010		BASE,CHUCK	48	86-CT9-223-010		CUSH,FOOT
14	8Z-CT6-214-010		RING,CHUCK	49	8A-CDB-207-010		HLDR,ANT
15	87-036-368-010		MAGNET	50	87-A60-178-010	▲	JACK,AC E W/SW
16	86-CT9-222-010		PLATE,MAGNET	51	8A-CDB-215-010		SPR-T,BATT
17	86-CT9-217-010		HLDR,CHUCK A(S)	52	8A-CDB-220-010		HLDR,M66 BAR ANT
18	8A-CDB-009-010		BOX,CD<EXCEPT HRL>	53	8A-CDB-015-010		KEY,CASS
18	8A-CDB-088-010		BOX,CD EX BL<HRL>	54	8A-CDB-216-010		PLATE,TRAN
19	8A-CHB-011-010		WINDOW,CD<EXCEPT HRL>	55	87-A90-086-010		COVER,AC-SOCKET
19	8A-CDB-068-010		WINDOW,CD BL<HRL>	56	8A-CDB-626-010		CONN ASSY,4P CASS HEAD
20	8A-CHB-014-010		BTN,FUNC<EXCEPT HRL>	57	8A-CDB-633-010		CONN ASSY,4P SPKR
20	8A-CHB-041-010		BTN,FUNC EX BL<HRL>	58	8A-CDB-625-010		CONN ASSY,4P CASS MECHA
21	8A-CDB-213-010		BASE,FUNC	A	81-CD5-204-010		SCREW CD
22	8A-CDB-014-010		BTN,QSOUND	B	87-651-104-410		VT1+3-30
23	8A-CDB-003-010		CHAS,CD	C	87-741-096-410		UT2+3-10
24	8A-CDB-021-010		LENS,FUNC	D	87-751-097-410		SCREW 3X12
25	8A-CDB-203-010		HLDR,LED FUNC	E	87-261-096-410		SCREW,V+3-10 GLD
26	88-CH6-220-010		CUSHION,CD A	F	87-741-074-410		UT2+2.6-8
27	8Z-CT9-064-010		PANEL CD	G	87-261-032-410		SCREW,V+2-3 GLD
28	87-036-389-010		SW,PUSH LOCK	H	87-751-095-410		VT2+3-8 W/O
29	8A-CDB-218-010		SPR-T,CD				
30	8A-CDB-620-010		CONN ASSY,2P CD-DOOR				
31	M8-ZZK-E90-070		DA11T3C				
32	87-063-165-010		OIL-DMPR 150				
33	8A-CDB-214-010		BASE,VOL				

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

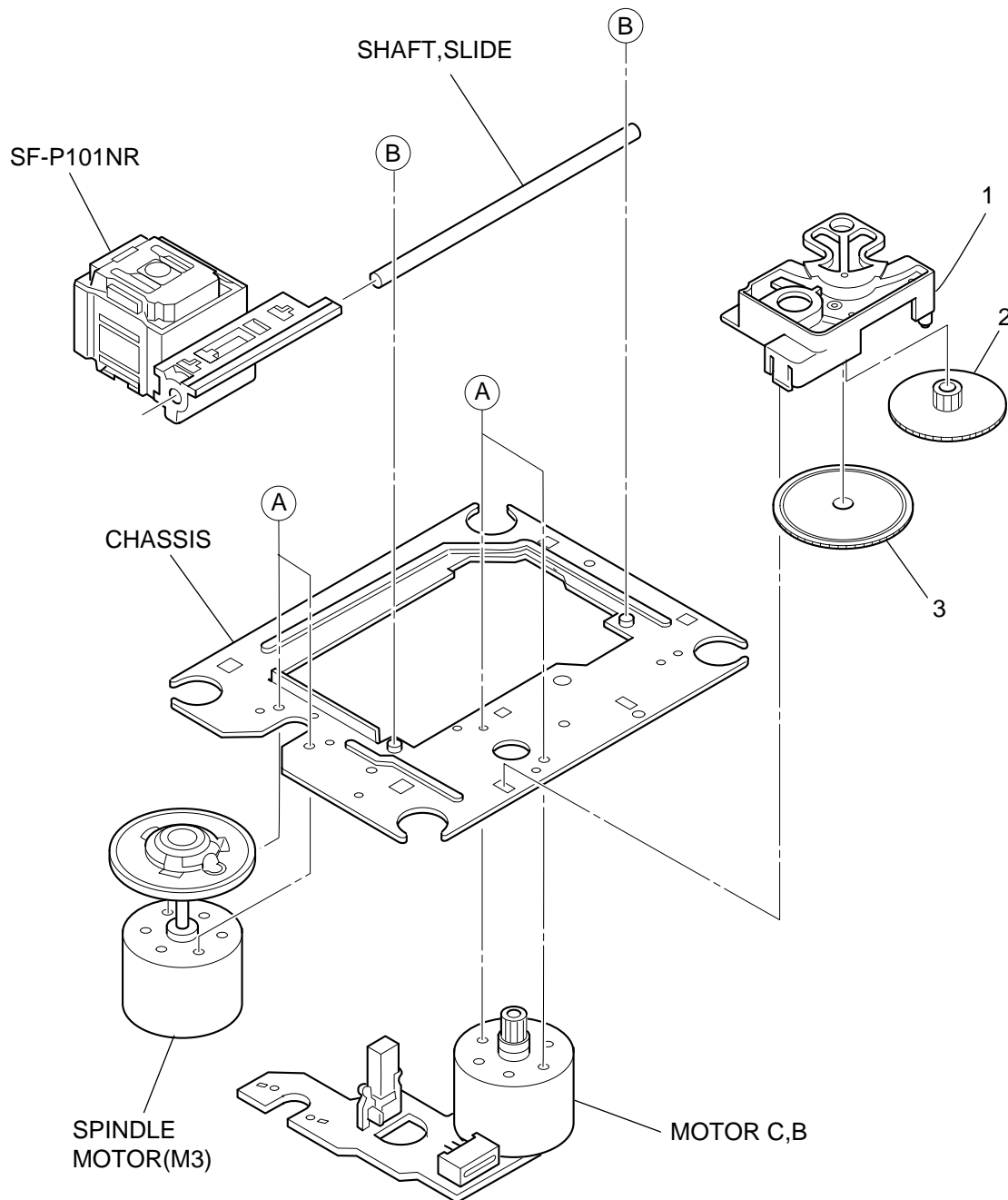


TAPE MECHANISM PARTS LIST 1/1

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	S1-921-030-4A0		HEAD BASE	36	S1-921-140-030		REC BUTTON LEVER
2	S1-821-030-070		AZIMUTH SPRING	37	S1-921-140-170		P.S.LEVER SPRING
3	S1-921-030-090		PANEL P SPRING	38	S1-921-073-040		RF CLUTCH ASSY
4	S1-921-260-050		GEAR PLATE SPRING	39	S1-921-070-030		RF BELT
5	S1-921-265-020		GEAR PLATE ASSY	40	S1-921-260-020		CAM GEAR
6	S1-510-020-020		REC SPRING PLATE	41	S1-921-140-160		E ACTUATOR SPRING
7	S1-921-015-010		CHASSIS ASSY	42	S1-921-093-210		FLYWHEEL ASSY
8	S1-921-030-110		HEAD PANEL	43	S1-921-090-380		MAIN BELT
9	S1-921-143-160		BASE ASSY	44	S1-921-120-590		MOTOR PULLEY
10	S1-921-141-8A0		M CONTROL SPRING	45	S6-002-030-220		MOTOR EG530AD-2B
11	S1-921-260-4A0		SENSING LEVER	46	S6-209-100-100		E HEAD PH-K380-MS1
12	S1-921-043-100		PINCH ROLLER ARM ASSY	47	S1-921-030-050		MG ARM
13	S1-921-130-010		EJECT SLIDE LEVER	48	S1-921-140-210		REC BUTTON LEVER SPRING
14	S1-921-141-3A0		P CONTROL SPRING	49	S1-821-100-690		RECORD SAFETY LEVER
15	S1-921-140-550		PAUSE LEVER(E)	50	S1-821-128-9A0		MOTOR BRACKET
16	S1-921-140-120		PAUSE LEVER SPRING	51	S1-821-010-500		PLAY BUTTON LEVER SPRING
17	S1-921-140-110		PAUSE STOPPER	52	S6-201-011-110		HEAD,RP7442ES-0951
18	S1-921-140-150		BUTTON LEVER SPRING(B)	A	S9-P04-200-310		C TAPPING SCREW 2-3
19	S1-821-011-590		E KICK LEVER	B	S1-921-120-020		MOTOR COLLER SCREW
20	S1-921-141-070		BUTTON LEVER SPRING(A)	C	S9-B10-200-510		P TAPPING BIND SCREW M2-5
21	S6-401-011-490		LEAF SW MSW-1541T	D	S9-C07-204-510		SCREW,TAPPING(CAMERA)M2-4.5
22	S1-921-140-090		SWITCH ACTUATOR	E	S9-P01-200-610		SCREW,M2-6
23	S1-921-140-080		PUSH BUTTON ACTUATOR	F	S9-B01-200-310		(+)BIND SCREW M2-3
24	S1-921-140-190		PLAY BUTTON LEVER	G	S9-F08-200-710		AZIMUTH SCREW M2-7
25	S1-921-030-100		MG ARM SPRING	H	S1-921-120-030		MB SCREW
26	S1-921-140-040		REW BUTTON LEVER	I	S9-W02-300-100		P WASHER CUT 1.2-3.8-0.3
27	S1-921-140-050		FF,BUTTON REVER	J	S9-W02-500-100		P WASHER CUT 1.45-3.8-0.5
28	S1-921-140-060		STOP BUTTON LEVER	K	S9-W01-400-100		P WASHER 2-3.5-0.4
29	S1-921-140-600		PAUSE BUTTON LEVER	L	S9-W01-130-200		P WASHER 2.1-4-0.13
30	S1-821-100-700		FF GEAR				
31	S1-921-050-060		SENER				
32	S1-921-053-100		TAKE UP REEL ASSY				
33	S1-829-100-010		PACK SPRING				
34	S1-921-050-150		S REEL HUB				
35	S1-921-050-220		BACK TENSION SPRING				

CD MECHANISM EXPLODED VIEW 1/1



CD MECHANISM PARTS LIST 1/1

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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-05E		SCR PAN PCS 2-3
B	87-261-073-410		SCR S-TPG FLT 2.6-6
ALL	M8-ZZK-E90-070		DA11T3C

ACCESSORIES/PACKAGE LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
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REF. NO	PART NO.	KANRI NO.	DESCRIPTION
	1 8A-CHB-906-010		IB,EZ(9L)FM<EZS>
	1 8A-CHB-901-010		IB,H(ECA)FM<HRS,HRL>
	1 8A-CHB-902-010		IB,LH(ESP)FM<HAS>
⚠	2 87-A80-036-010		AC CORD SET ASSY,E W/FLTR VOL
⚠	3 87-A91-017-010		PLUG,CONVERSION JT-0476 <EXCEPT EZS>

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