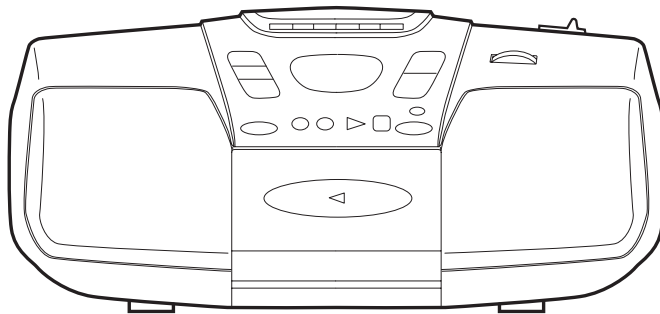




SERVICE MANUAL

COMPACT DISC STEREO
RADIO CASSETTE RECORDER

BASIC TAPE MECHANISM: ZZM-1 R5NC
BASIC CD MECHANISM: DA11T3C

SPECIFICATIONS

<Tuner section>

Frequency range

FM:
87.5 MHz to 108.0 MHz
Antenna: Rod antenna
AM:
530 kHz to 1,710 kHz
Antenna: Ferrite bar antenna

<Deck section>

Track format

Frequency range

Recording system

Erasing system

Heads

4 tracks, 2 channels
Normal tape: 50 - 12,500 Hz (EIAJ)
AC bias
Magnet erase
Recording/playback head (1),
Erasure head (1)

<CD player section>

Disc

Scanning method

Compact disc
Non-contact optical scanner
(semiconductor laser)

<General>

Speaker

Output

Power output

100 mm cone type (2)
Headphones jack (stereo mini-jack)
2.5 W + 2.5 W
(EIAJ 7 ohms, T.H.D. 10 % 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

Dimensions (W x H x D)

Weight

17 W
414 x 183 x 235 mm
3.2 kg (excluding batteries)

- Design and specifications are subject to change without notice.

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-CDA-902-010		IB, LH (ESP) FM
 2	87-A80-036-010		AC CORD SET ASSY, E W/FLTR V
 3	87-A91-017-010		PLUG, CONVERSION JT-0476

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

WARNING!!

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



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

VAROITUS!

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

WARNING!

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

CAUTION

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

ATTENTION

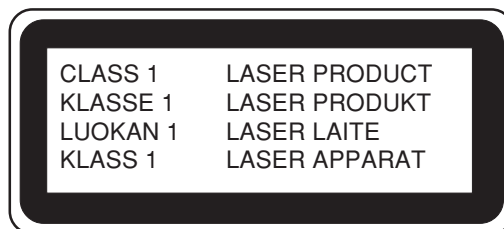
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL

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

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

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

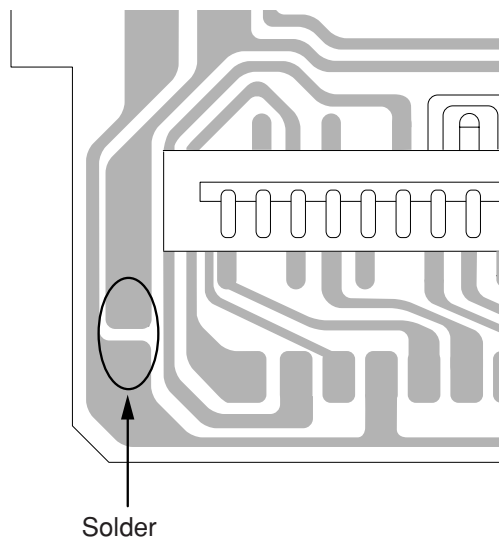


Precaution to replace Optical block (SF-P101NR)

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

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

PICK-UP Assy PWB



ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C821	87-010-401-080		CAP, ELECT 1-50V
	87-A20-955-010		IC, LA1828	C822	87-010-401-080		CAP, ELECT 1-50V
	87-A21-193-010		IC, TA8227P	C823	87-010-178-080		CHIP CAP 1000P
	87-A21-443-040		C-IC, M62495AFP	C824	87-010-178-080		CHIP CAP 1000P
	87-A20-446-010		C-IC, LA9241ML	C829	87-010-178-080		CHIP CAP 1000P
	87-A21-319-010		C-IC, LC78622NE				
	87-A21-891-010		C-IC, MM1469XH	C830	87-010-178-080		CHIP CAP 1000P
	8B-CDL-600-010		C-IC, LC865516A-5T66	C834	87-010-248-080		CAP, ELECT 220-10V
	87-A21-607-010		IC, NJM14558LD	C843	87-A11-132-080		CAP, TC U 0.01-50 KB
				C844	87-018-124-080		CAP, CER 270P-50V
				C845	87-010-178-080		CHIP CAP 1000P
TRANSISTOR				C846	87-010-263-080		CAP, ELECT 100-10V
	89-327-143-080		C-TR, 2SC2714O	C851	87-A11-128-080		CAP, TC U 4700P-50
	87-026-447-080		TR, 2SC1740SR	C852	87-018-131-080		CAP, TC U 1000P
	87-026-463-080		TR, 2SA933SRS	C853	87-A11-132-080		CAP, TC U 0.01-50 K B
	87-A30-288-040		C-TR, DTC114YKA	CN201	87-099-018-010		CONN, 16P
	89-318-154-080		TR, 2SC1815Y				
	89-112-965-080		TR, 2SA1296GR	CN801	87-A60-110-010		CONN, 4P V S2M-4W
	87-026-291-080		TR, DTC124XS	CNA302	8B-CDA-629-010		CONN ASSY, 6P MA-TU
	87-A30-476-010		TR, KTA1046Y	CNA801	8B-CDA-630-010		CONN ASSY, 4P RPH
	87-026-462-080		TR, 2SC1740SRS	JW108	87-003-097-080		COIL, 1.0UH K LAL02
	89-109-332-380		TR, 2SA933RS	JW132	87-003-097-080		COIL, 1.0UH K LAL02
	87-A30-515-080		TR, 2SA19790/Y				
	87-A30-287-040		C-TR, DTC114TKA	JW133	87-003-097-080		COIL, 1.0UH K LAL02
	87-A30-076-080		C-TR, 2SC3052F	L801	87-007-342-010		COIL, OSC 85K BIAS
	87-A30-431-040		C-TR, DTC124TKA	SW801	8Z-CD9-609-010		SW, SL 1-6-2 PS62D01
	87-026-464-080		TR, DTC114TS				
DIODE				FRONT C.B			
	87-A40-650-080		ZENER, MTZJ6.8A	C601	87-018-150-080		CAP, TC-U 18P-50 CH
	87-070-345-080		DIODE, IN4148	C602	87-018-111-080		CAP, CERA-SOL SS 27P
	87-A40-648-080		ZENER, MTZJ8.2A	C603	87-018-116-080		CAP, CER 56P-50V
	87-A40-234-080		ZENER, MTZJ5.6A	C604	87-018-149-080		CAP, TC-U 15P-50 CH
	87-017-978-080		DIODE, 1N4003	C605	87-018-114-080		CAP, CERA-SOL SS 39P
	87-017-932-080		ZENER, MTZJ6.2B				
	87-020-465-080		DIODE, 1SS133	C606	87-010-197-010		CAP, S 0.01-25
	87-A40-465-010		DIODE, FR202	C609	87-010-197-010		CAP, S 0.01-25
				C610	87-A10-189-040		CAP, E 220-10
				C611	87-010-196-010		C-CAP, S 0.1-25 F
				C613	87-010-196-010		C-CAP, S 0.1-25 F
				C614	87-010-264-040		CAP, E 100-10 5L
				C615	87-010-197-010		CAP, S 0.01-25
				C617	87-010-494-080		CAP ELECT GAS 1/50
				C619	87-010-197-010		CAP, S 0.01-25
				C621	87-010-494-080		CAP ELECT GAS 1/50
MAIN C.B							
C211	87-A11-177-080		C-CAP, S 0.15-16 K B	C622	87-010-493-080		CAP, E 0.47-50 GAS
C212	87-A11-177-080		C-CAP, S 0.15-16 K B	C630	87-010-178-080		CAP, S 1000P-50
C215	87-016-460-080		C-CAP, S 0.22-16 B	C631	87-010-178-080		CAP, S 1000P-50
C216	87-016-460-080		C-CAP, S 0.22-16 B	C632	87-010-166-080		CAP, S 100P-50
C231	87-010-213-080		C-CAP, S 0.015-50 B	C633	87-010-166-080		CAP, S 100P-50
C232	87-010-213-080		C-CAP, S 0.015-50 B	CN601	87-099-033-010		16P 6216 H
C233	87-A10-201-080		C-CAP, S0.33-16 KB	CN602	87-099-201-010		CONN, 8P 6216 H
C234	87-A10-201-080		C-CAP, S0.33-16 KB	FFC601	8B-CDA-620-010		FF-CABLE, 16P FR-MAIN
C235	87-016-669-080		C-CAP, S 0.1-25 K B	L602	87-003-097-080		COIL, 1.0UH K LAL02
C236	87-016-669-080		C-CAP, S 0.1-25 K B	L604	87-003-246-080		C-COIL, 2125 33UH K
C237	87-010-371-080		CAP, ELECT 470-6.3V	L608	87-003-231-080		C-COIL, 2125 1UH K MLF2012
C239	87-010-805-080		C-CAP, S 1-16 ZF	LED601	8A-CDA-645-010		LED, 6224-10ID RED
C240	87-010-805-080		C-CAP, S 1-16 ZF	LED602	8A-CDA-645-010		LED, 6224-10ID RED
C247	87-010-401-080		CAP, ELECT 1-50V	LED603	8A-CDA-645-010		LED, 6224-10ID RED
C248	87-010-401-080		CAP, ELECT 1-50V	LED604	8A-CDA-646-010		LED, 6224-10GD GRN
C310	87-010-248-080		CAP, ELECT 220-10V	LED606	8A-CDA-645-010		LED, 6224-10ID RED
C316	87-010-263-080		CAP, ELECT 100-10V	LED611	87-A41-066-010		LED, FR-12037G RED
C317	87-015-819-080		CAPACITOR, 0.01	S601	87-A91-704-080		SW, TACT EVQ 214 05R
C801	87-010-248-080		CAP, ELECT 220-10V	S602	87-A91-704-080		SW, TACT EVQ 214 05R
C805	87-012-365-080		C-CAP, S 0.027-25VBK	S603	87-A91-704-080		SW, TACT EVQ 214 05R
C806	87-012-365-080		C-CAP, S 0.027-25VBK	S604	87-A91-704-080		SW, TACT EVQ 214 05R
C807	87-010-406-080		CAP, ELECT 22-50V	S605	87-A91-704-080		SW, TACT EVQ 214 05R
C808	87-010-406-080		CAP, ELECT 22-50V	S606	87-A91-704-080		SW, TACT EVQ 214 05R
C809	87-010-401-080		CAP, ELECT 1-50V	S607	87-A91-704-080		SW, TACT EVQ 214 05R
C810	87-010-401-080		CAP, ELECT 1-50V	S608	87-A91-704-080		SW, TACT EVQ 214 05R
C811	87-010-178-080		CHIP CAP 1000P	S609	87-A91-704-080		SW, TACT EVQ 214 05R
C812	87-010-178-080		CHIP CAP 1000P	S610	87-A91-704-080		SW, TACT EVQ 214 05R
C816	87-010-180-080		C-CER 1500P	S611	87-A91-704-080		SW, TACT EVQ 214 05R
C817	87-010-180-080		C-CER 1500P	S612	87-A91-704-080		SW, TACT EVQ 214 05R

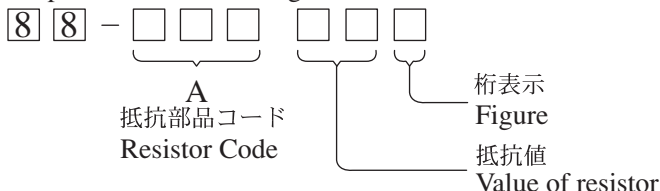
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
X601	87-030-273-010		VIB,XTAL 32.768K5PPM	C448	87-010-315-080		C-CAP,S 27P-50 CH
X602	87-030-376-080		VIB,CER CSA5.76MG200	C451	87-012-156-080		C-CAP,S 220P-50 CH
CD C.B				C455	87-010-247-080		CAP, ELECT 100-50V
				C457	87-010-312-080		C-CAP,S 15P-50 CH
				C458	87-010-312-080		C-CAP,S 15P-50 CH
C30	87-010-260-080		CAP, ELECT 47-25V	C459	87-010-263-080		CAP, ELECT 100-10V
C251	87-010-405-080		CAP, ELECT 10-50V	C460	87-015-819-080		CAPACITOR,0.01
C263	87-010-178-080		CHIP CAP 1000P	C461	87-010-197-080		CAP, CHIP 0.01 DM
C264	87-010-178-080		CHIP CAP 1000P	C462	87-010-248-080		CAP, ELECT 220-10V
C265	87-010-263-080		CAP, ELECT 100-10V	C463	87-A11-132-080		CAP, TC U 0.01-50 KB
C266	87-010-263-080		CAP, ELECT 100-10V	C465	87-010-404-080		CAP, ELECT 4.7-50V
C267	87-010-385-080		CAP, ELECT 220-25V	C466	87-012-368-080		C-CAP,S 0.1-50 F
C268	87-010-385-080		CAP, ELECT 220-25V	C467	87-010-263-080		CAP, ELECT 100-10V
C271	87-010-221-080		CAP, ELECT 470-10V	C469	87-012-154-080		C-CAP,S 150P-50 CH
C272	87-010-221-080		CAP, ELECT 470-10V	C470	87-018-209-080		CAP, TC U 0.1-50 ZF
C278	87-010-385-080		CAP, ELECT 220-25V	C471	87-018-209-080		CAP, TC U 0.1-50 ZF
C279	87-010-235-080		CAP, ELECT 470-16V	C472	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C301	87-016-495-000		CAP,E 3300-25 M SMG	C473	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C306	87-010-404-080		CAP, ELECT 4.7-50V	C474	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C307	87-010-401-080		CAP, ELECT 1-50V	C475	87-A11-132-080		CAP, TC U 0.01-50 K B
C308	87-010-221-080		CAP, ELECT 470-10V	C476	87-010-236-080		CAP,E 1000-10 SME
C311	87-010-404-080		CAP,ELECT 4.7-50V	C477	87-010-197-080		CAP, CHIP 0.01 DM
C312	87-010-385-080		CAP, ELECT 220-25V	C478	87-010-263-080		CAP, ELECT 100-10V
C321	87-010-197-080		CAP, CHIP 0.01 DM	C479	87-010-197-080		CAP, CHIP 0.01 DM
C322	87-010-263-080		CAP, ELECT 100-10V	C480	87-010-221-080		CAP, ELECT 470-10V
C324	87-010-260-080		CAP, ELECT 47-25V	C481	87-010-405-080		CAP, ELECT 10-50V
C325	87-010-405-080		CAP, ELECT 10-50V	C482	87-010-405-080		CAP, ELECT 10-50V
C401	87-010-403-080		CAP, ELECT 3.3-50V	C489	87-012-368-080		C-CAP,S 0.1-50 F
C402	87-010-197-080		CAP, CHIP 0.01 DM	C490	87-012-368-080		C-CAP,S 0.1-50 F
C403	87-010-263-080		CAP, ELECT 100-10V	C491	87-A11-132-080		CAP, TC U 0.01-50KB
C404	87-010-248-080		CAP, ELECT 220-10V	C492	87-010-221-080		CAP, ELECT 470-10V
C405	87-010-197-080		CAP, CHIP 0.01 DM	C493	87-010-180-080		C-CER 1500P
C406	87-010-374-080		CAP, ELECT 47-10V	C501	87-012-368-080		C-CAP,S 0.1-50 F
C407	87-018-131-080		CAP,TC U 1000P-50	C502	87-010-322-080		C-CAP,S 100P-50 CH
C408	87-010-198-080		CAP, CHIP 0.022	C503	87-018-119-080		CAP,TC U 100P-50 KB
C409	87-010-248-080		CAP, ELECT 220-10V	C504	87-010-322-080		C-CAP,S 100P-50 CH
C410	87-010-263-080		CAP, ELECT 100-10V	C505	87-010-322-080		C-CAP,S 100P-50 CH
C411	87-A11-177-080		C-CAP,S 0.15-16 K B	C506	87-010-322-080		C-CAP,S 100P-50 CH
C412	87-010-401-080		CAP, ELECT 1-50V	C510	87-016-669-080		C-CAP,S 0.1-25 K B
C413	87-016-369-080		C-CAP,S 0.033-25 B K	C831	87-010-198-080		CAP, CHIP 0.022
C414	87-010-405-080		CAP, ELECT 10-50V	CN202	8A-CH4-687-010		CONN,4P V 2.5
C416	87-010-545-080		CAP, ELECT 0.22-50V	CN205	87-A60-109-010		CONN,2P V S2M-2W
C417	87-012-157-080		C-CAP,S 330P-50 CH	CN301	8A-CH4-689-010		CONN,3P V 2.5
C418	87-010-213-080		C-CAP,S 0.015-50 B	CN401	87-A60-424-010		CONN,16P V TOC-B
C419	87-A11-608-080		C-CAP,S 0.33-25 K B	CN403	87-099-201-010		CONN,8P 6216 H
C420	87-016-369-080		C-CAP,S 0.033-25 B K	CN802	8A-CH4-687-010		CONN,4P V 2.5
C421	87-A11-177-080		C-CAP,S 0.15-16 K B	CNA202	8B-CDA-633-010		CONN ASSY,4P SP
C422	87-010-184-080		CHIP CAPACITOR 3300P(K)	CNA205	8B-CDA-626-010		CONN ASSY,2P DOOR
C423	87-010-992-080		C-CAP,S 0.047-25 B	CNA402	8B-CDA-625-010		CONN ASSY,6P CD-ME
C424	87-016-460-080		C-CAP,S 0.22-16 K B	CNA802	8B-CDA-631-010		CONN ASSY,4P TA-ME
C425	87-018-129-080		CAP,TC U 680P-50 K B	FFC401	8B-CDA-621-010		FF-CABLE,16P CD-RF
C426	87-A11-608-080		C-CAP,S 0.33-25 K B	FFC403	8B-CDA-622-010		FF-CABLE,8P CD-FR
C428	87-010-197-080		CAP, CHIP 0.01 DM	J201	87-A60-420-010		JACK,3.5 ST (MSC)
C429	87-010-186-080		CAP,CHIP 4700P	L401	87-003-102-080		COIL, 10UH
C430	87-012-156-080		C-CAP,S 220P-50 CH	L404	87-003-152-080		COIL, 100UH
C431	87-010-545-080		CAP, ELECT 0.22-50V	R840	87-029-124-010		RES,FUSE 2.2-1/4
C432	87-010-374-080		CAP, ELECT 47-10V	SFR430	87-024-437-080		SFR,100K RH063MC
C433	87-010-401-080		CAP, ELECT 1-50V	X401	8Z-CD5-633-010		VIB, CER16.93MHZ FCR16.93M2
C434	87-010-184-080		CHIP CAPACITOR 3300P(K)				
C435	87-010-197-080		CAP, CHIP 0.01 DM				
C436	87-010-374-080		CAP, ELECT 47-10V	TUNER C.B			
C437	87-010-404-080		CAP, ELECT 4.7-50V	C1	87-010-314-080		C-CAP,S 22P-50V
C438	87-016-669-080		C-CAP,S 0.1-25 K B	C2	87-010-316-080		C-CAP,S 33P-50 CH
C439	87-010-178-080		CHIP CAP 1000P	C3	87-010-314-080		C-CAP,S 22P-50V
C440	87-018-139-080		CAP,TC U 1P-50 CH	C4	87-010-148-080		CAP, CHIP S 4P-50 CH
				C5	87-010-378-080		CAP, ELECT 10-16V
C441	87-010-197-080		CAP, CHIP 0.01 DM				
C442	87-018-109-080		CAP, TC U 22P-50 SL	C7	87-012-156-080		C-CAP,S 220P-50 CH
C445	87-012-368-080		C-CAP,S 0.1-50 F	C8	87-010-197-080		CAP, CHIP 0.01 DM
C446	87-012-368-080		C-CAP,S 0.1-50 F	C9	87-010-311-080		CAP 12P
C447	87-012-368-080		C-CAP,S 0.1-50 F	C10	87-010-197-080		CAP, CHIP 0.01 DM

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C11	87-010-331-080		C-CAP,S 8P-50 UJ	L8	87-A50-335-010		COIL,FM IFT (TOKO)
C12	87-010-314-080		C-CAP,S 22P-50V	L9	87-A50-577-010		COIL,FM DET(ACD)
C13	87-010-322-080		C-CAP,S 100P-50 CH	L10	87-005-849-080		COIL,10UH (CECS)
C14	87-010-148-080		CAP, CHIP S 4P-50 CH	PVC1	87-A91-167-010		TUN-CAP,20P-160P FA-22125 N000
C15	87-016-669-080		C-CAP,S 0.1-25 K B	S1	87-A91-548-010		SW,SL-2-3 SK23E01G06
C16	87-010-178-080		CHIP CAP 1000P				
C17	87-016-669-080		C-CAP,S 0.1-25 K B		POWER C.B		
C18	87-010-198-080		CAP, CHIP 0.022	C901	87-010-192-080		C-CAP,S 0.022-50 F
C19	87-016-669-080		C-CAP,S 0.1-25 K B	C902	87-010-192-080		C-CAP,S 0.022-50 F
C20	87-010-400-080		CAP, ELECT 0.47-50V	C903	87-010-192-080		C-CAP,S 0.022-50 F
C21	87-010-403-080		CAP, ELECT 3.3-50V	C904	87-010-192-080		C-CAP,S 0.022-50 F
C22	87-010-197-080		CAP, CHIP 0.01 DM	CNA901	8B-CDA-627-010		CONN ASSY,3P PWR
C24	87-010-197-080		CAP, CHIP 0.01 DM				
C25	87-010-197-080		CAP, CHIP 0.01 DM	△ J901	87-A60-178-010		JACK,AC E W/SW
C26	87-012-358-080		C-CAP,S 0.47-10 F Z	△ PR901	87-A91-940-080		PROTECTOR,2.5A 20P 60V
C27	87-012-358-080		C-CAP,S 0.47-10 F Z	△ PT901	8A-CDA-613-010		PT,H 2.5W
C28	87-010-992-080		C-CAP,S 0.047-25 B	SP901	8A-CDA-214-010		SPR-C,BATT
C29	87-010-992-080		C-CAP,S 0.047-25 B	SP902	8A-CDA-214-010		SPR-C,BATT
C30	87-010-248-080		CAP, ELECT 220-10V				
C31	87-010-379-080		CAP, ELECT 22-16V		BATT C.B		
C32	87-010-197-080		CAP, CHIP 0.01 DM	SP903	8A-CDA-214-010		SPR-C,BATT
C33	87-010-197-080		CAP, CHIP 0.01 DM	SP904	8A-CDA-214-010		SPR-C,BATT
C34	87-010-197-080		CAP, CHIP 0.01 DM				
C35	87-010-197-080		CAP, CHIP 0.01 DM				
C36	87-010-263-080		CAP, ELECT 100-10V		VOLTAGE SEL C.B		
C37	87-010-197-080		CAP, CHIP 0.01 DM	△ SW901	87-A91-369-010		SW,AC SL 2-2-2 SDKGA41700
C38	87-010-197-080		CAP, CHIP 0.01 DM				
C51	87-010-197-080		CAP, CHIP 0.01 DM				
C56	87-010-327-080		C-CAP,S 4P-50 UJ		CD MOTOR C.B		
CF1	87-A90-128-010		FLTR,AM IF CFAL-455	M2	S0-M10-A09-700		MOTOR SLED ASSY
CF2	87-008-261-010		FILTER, SFE10.7MA5-A	PN402	S2-369-750-000		PLUG,6P
CF3	87-008-261-010		FILTER, SFE10.7MA5-A	SW1	S4-S13-A01-600		SW,LEAF
CN2	87-A60-116-010		CONN,6P H S2M-6WR				
D13	87-A40-916-040		C-VARI-CAP,HVC202A				
L2	87-A50-560-010		COIL,FM BPF(ACD)				
L3	8A-CD9-660-010		BAR-ANT,MW 2B-ACD(COI)				
L4	87-A50-562-010		COIL,FM RF EX(ACD)				
L5	87-A50-564-010		COIL,FM OSC EX(ACD)				
L6	87-A50-337-010		COIL,AM OSC (TOKO)				
L7	87-A50-579-010		COIL,AM IFT(ACD)				

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



E C B

2SA1296GR
2SC1815Y



E C B

2SA1979O/Y



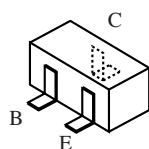
E C B

2SA933RS
2SA933SRS
2SC1740SR
2SC1740SRS
DTC124XS
DTC114TS



B C E

KTA1046Y

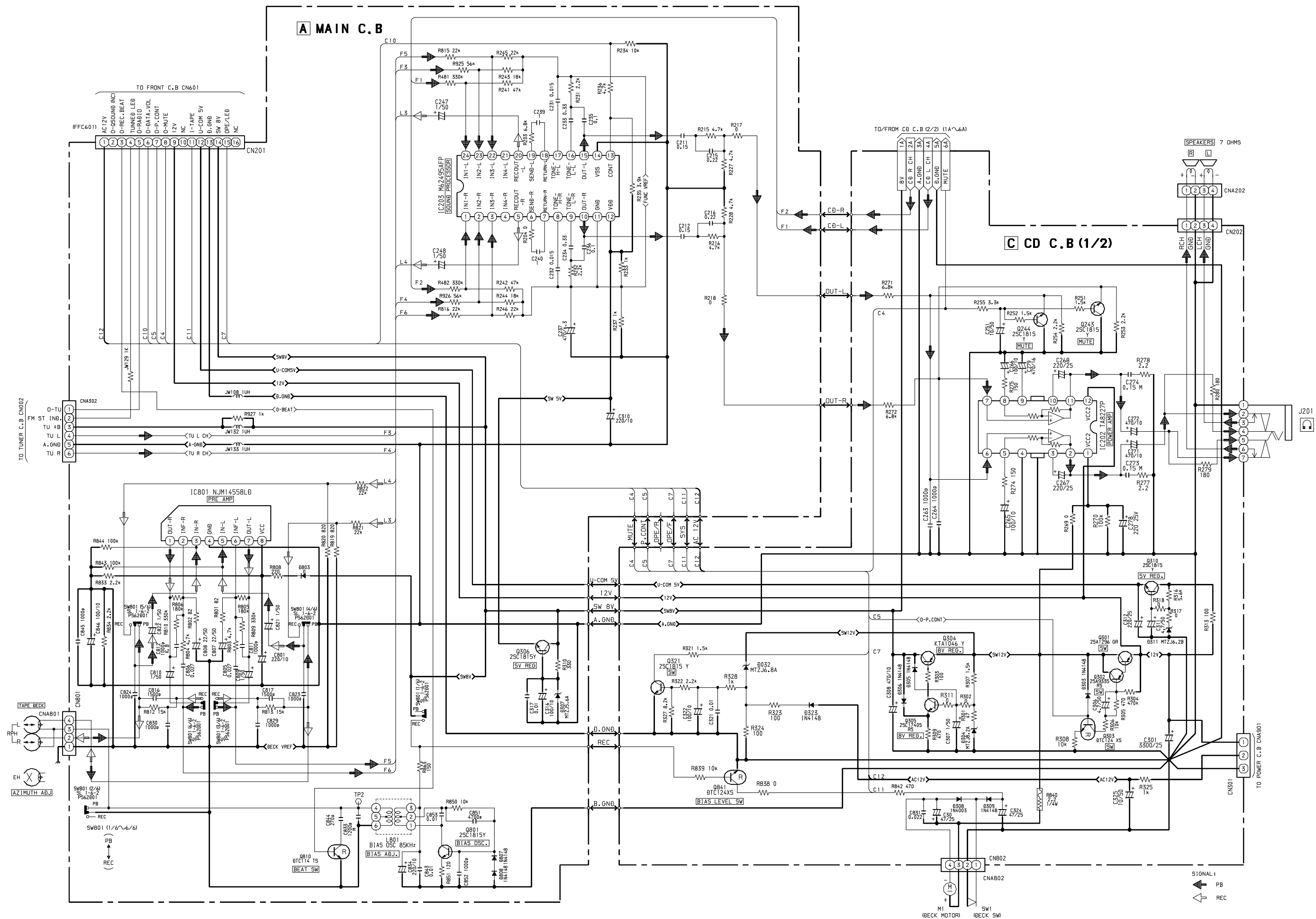


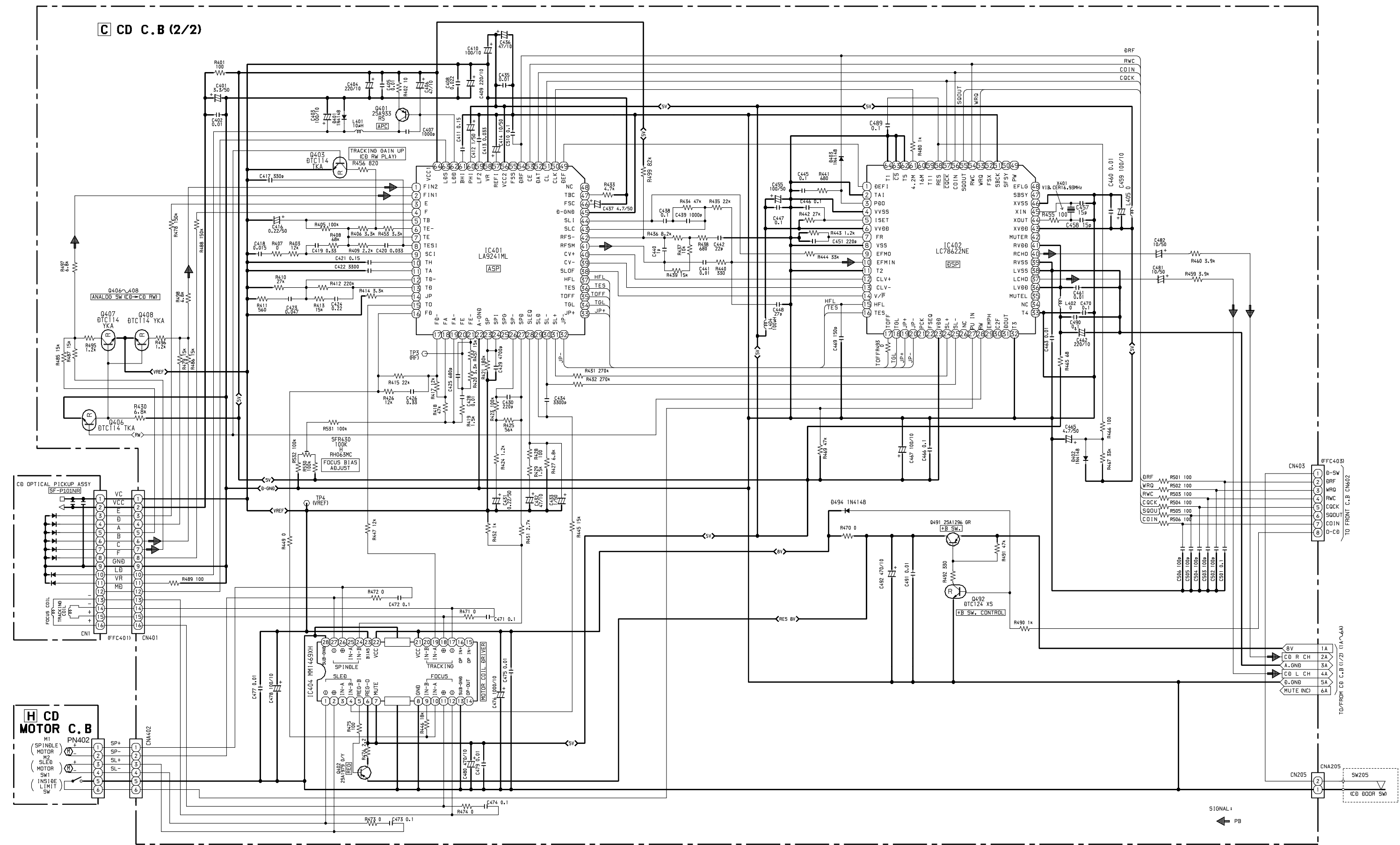
2SC2714O
2SC3052F
DTC114YKA
DTC114TKA
DTC124TKA

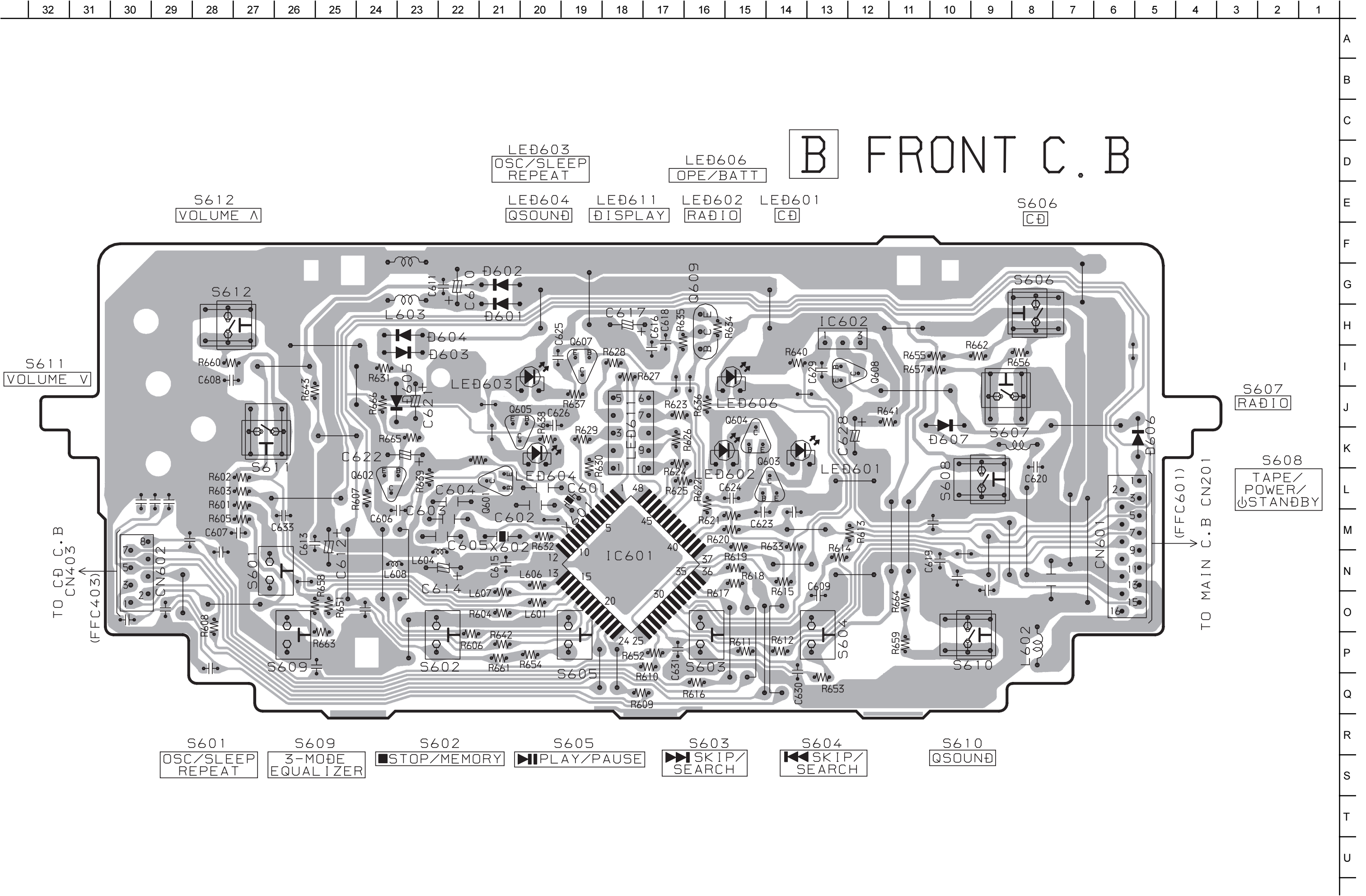
	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	---	---	---	---	---	---	---	---	---	--

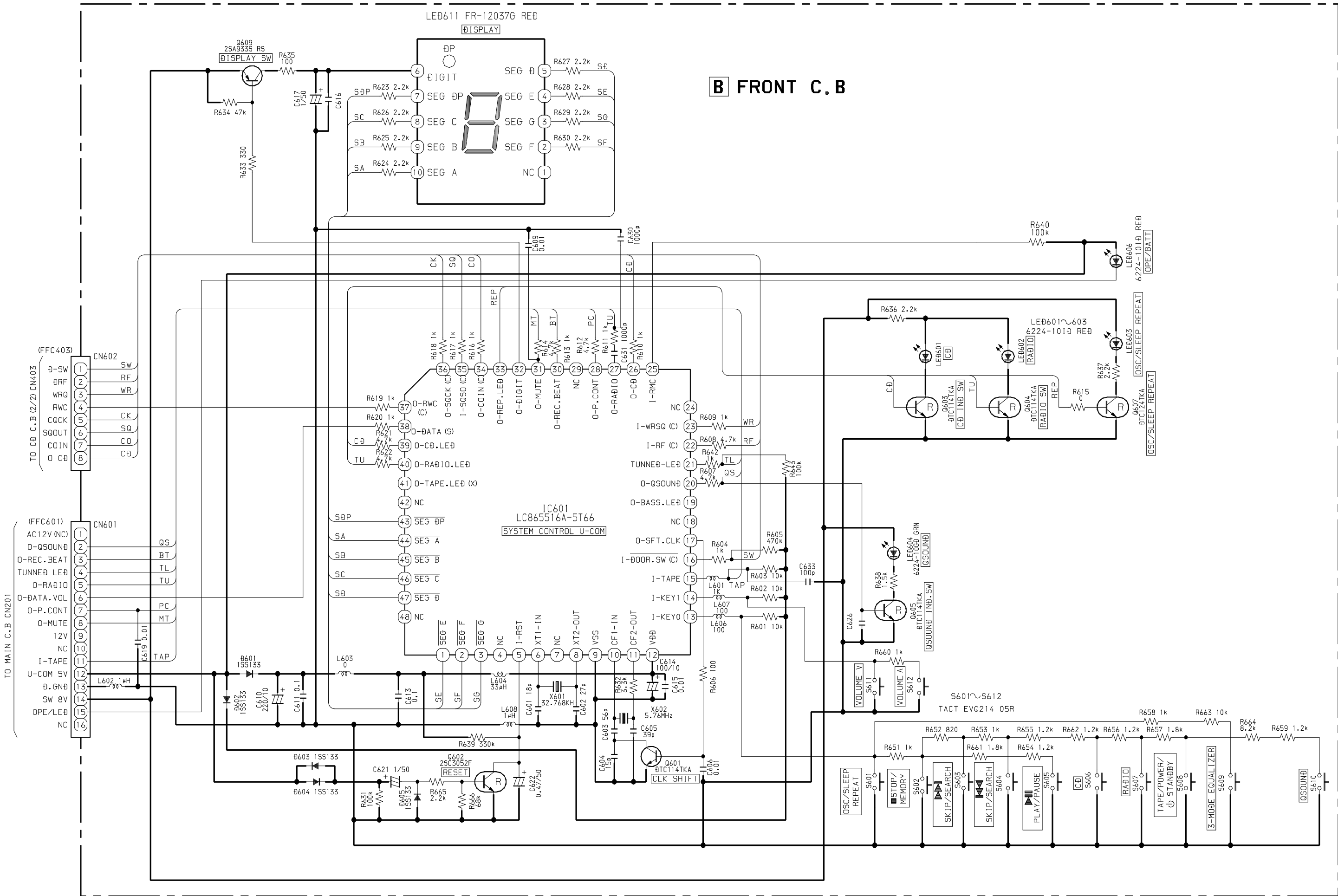


SCHEMATIC DIAGRAM – 1 (MAIN / CD : 1 / 2)









15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
----	----	----	----	----	----	---	---	---	---	---	---	---	---	---

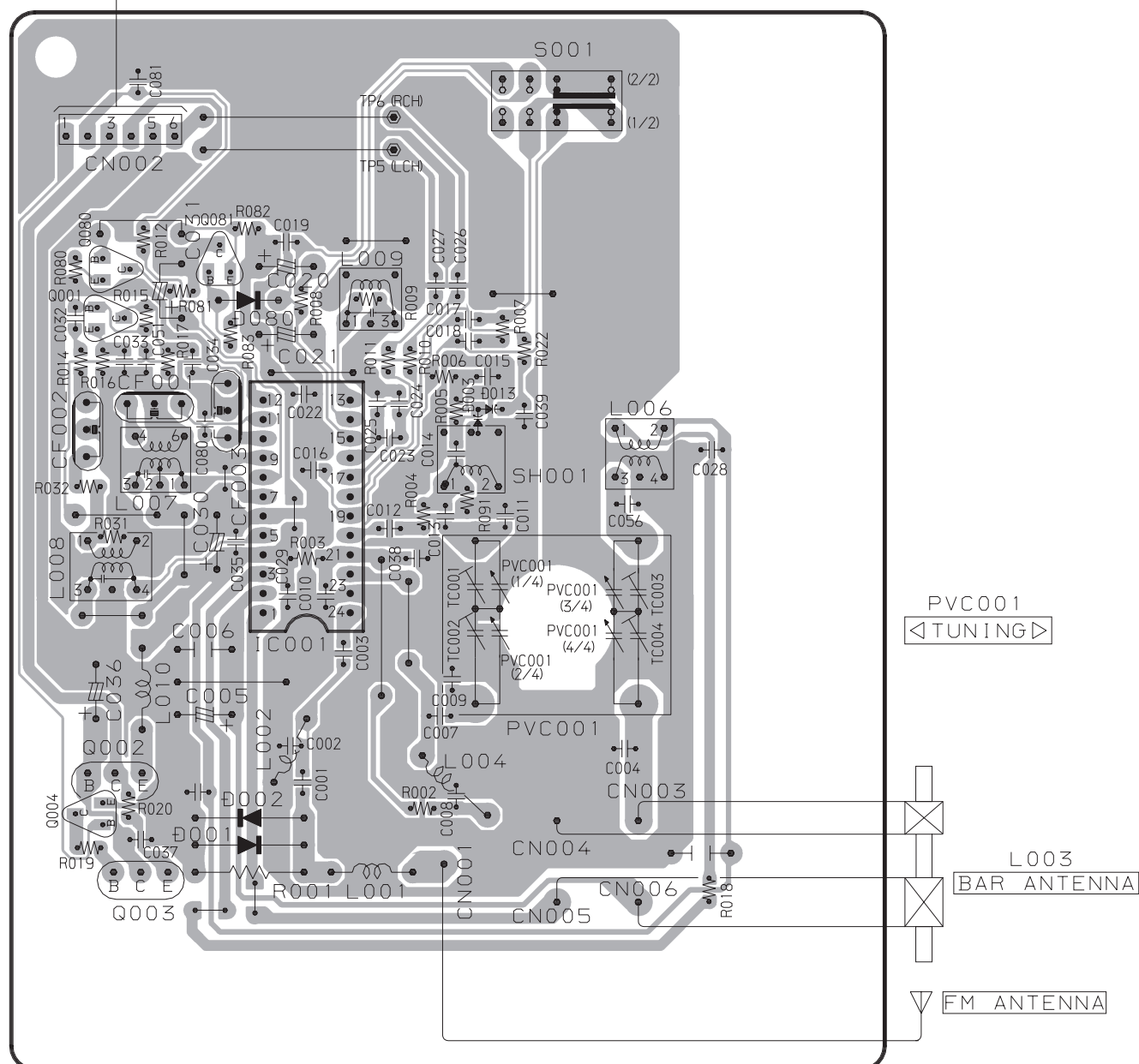


TO MAIN C.B
CNA302

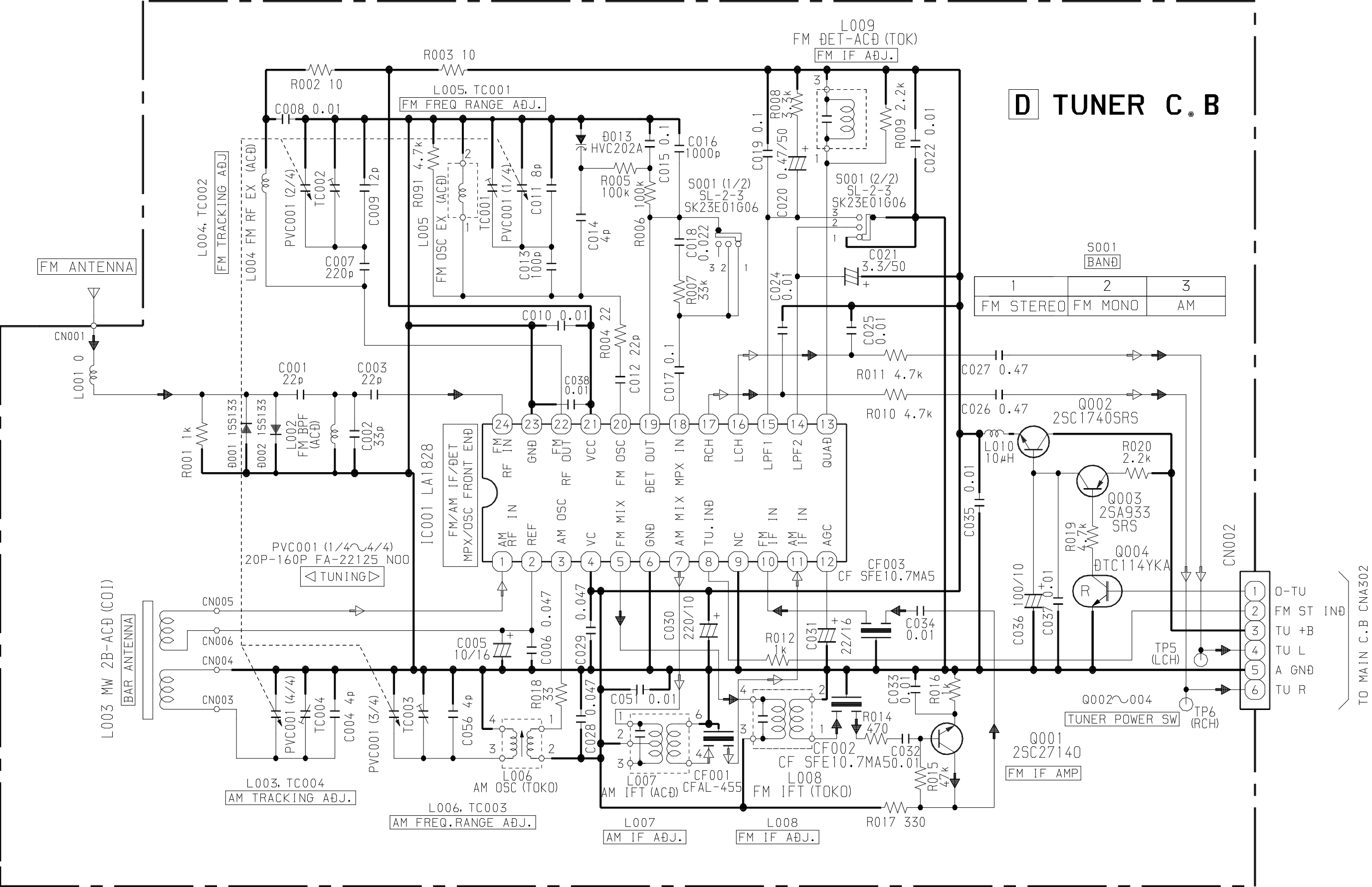
S001

BAND

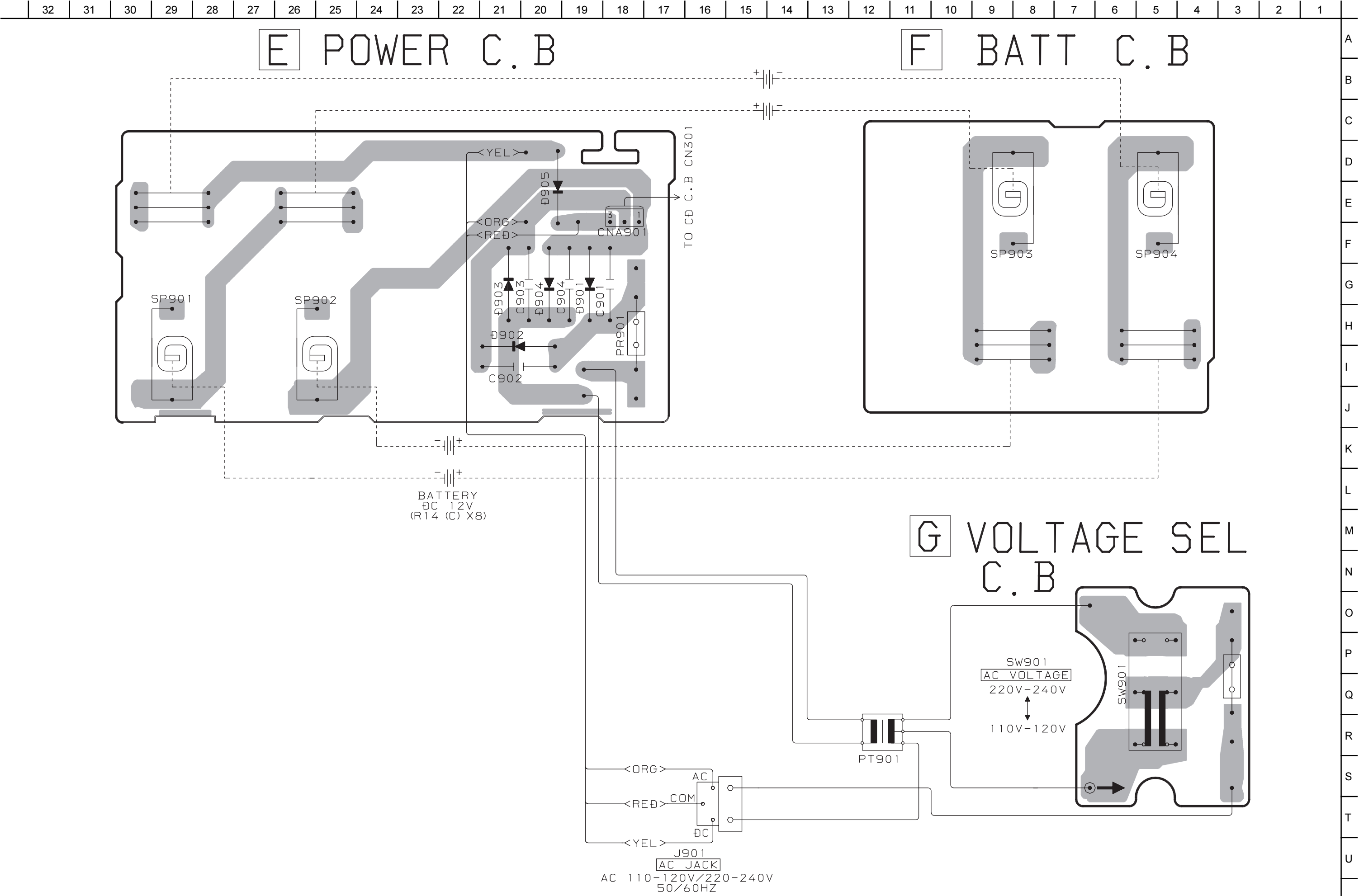
AM ↔ FM MONO ↔ FM STEREO



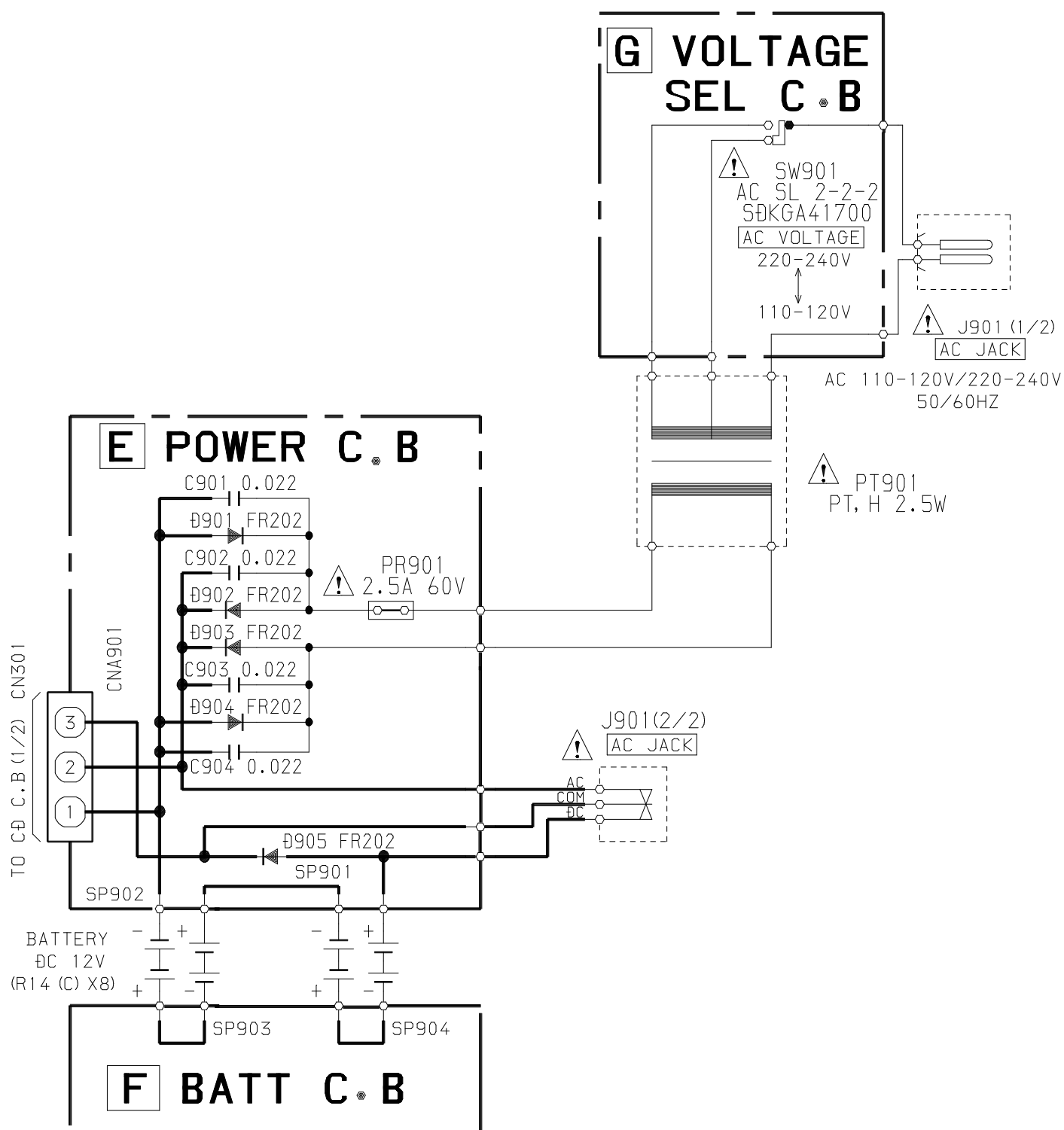
SCHEMATIC DIAGRAM-4 (TUNER)



SIGNAL :
FM
AM



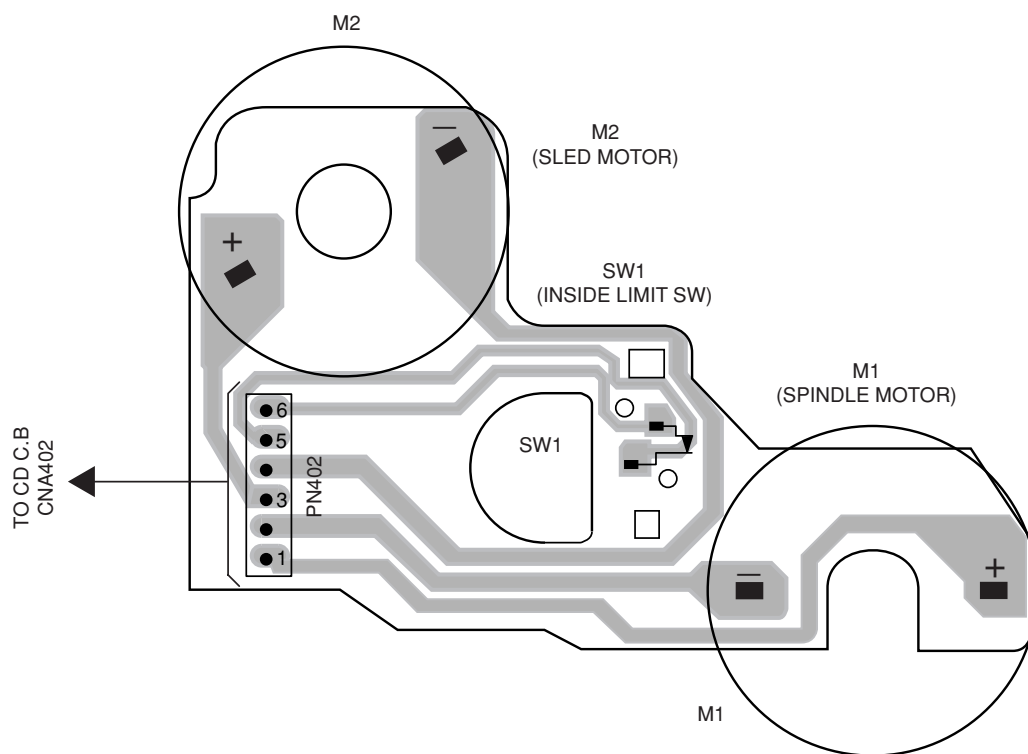
SCHEMATIC DIAGRAM – 5 (POWER / BATT / VOLTAGE SEL)



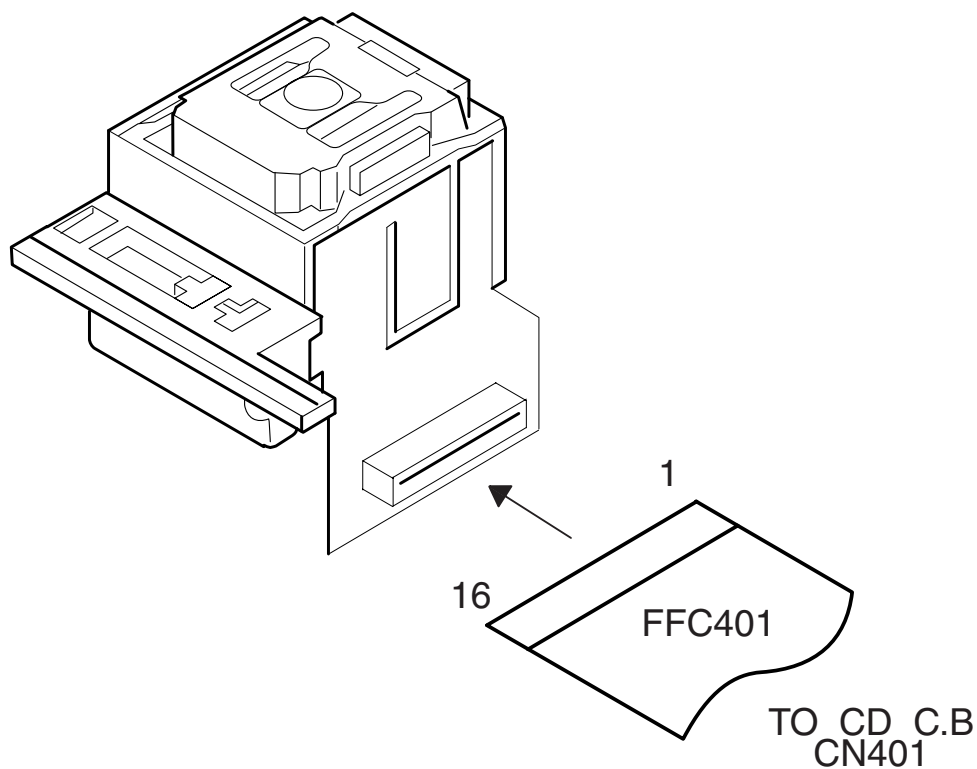
WIRING – 5 (CD MOTOR)

15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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H CD MOTOR C.B

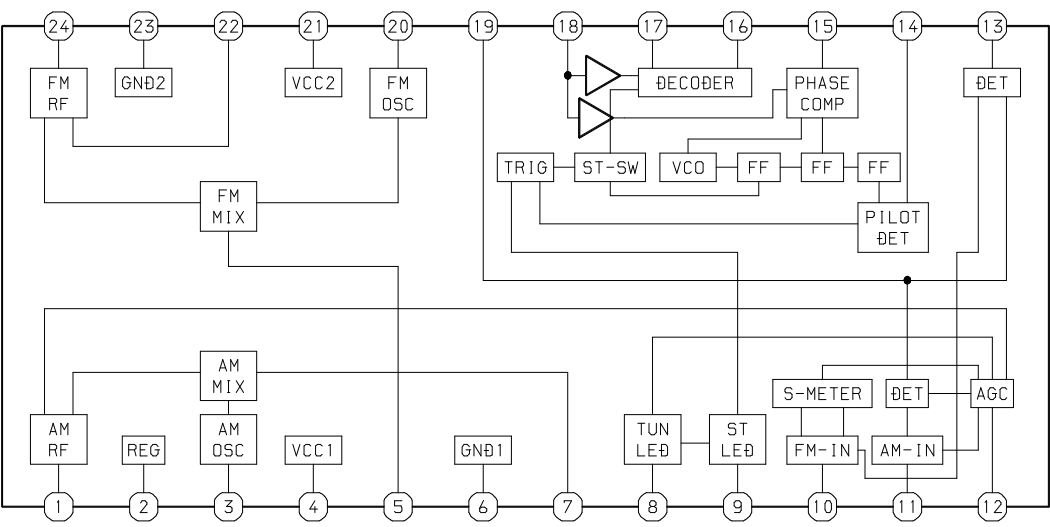


CD PICK UP ASSY SF-P101NR

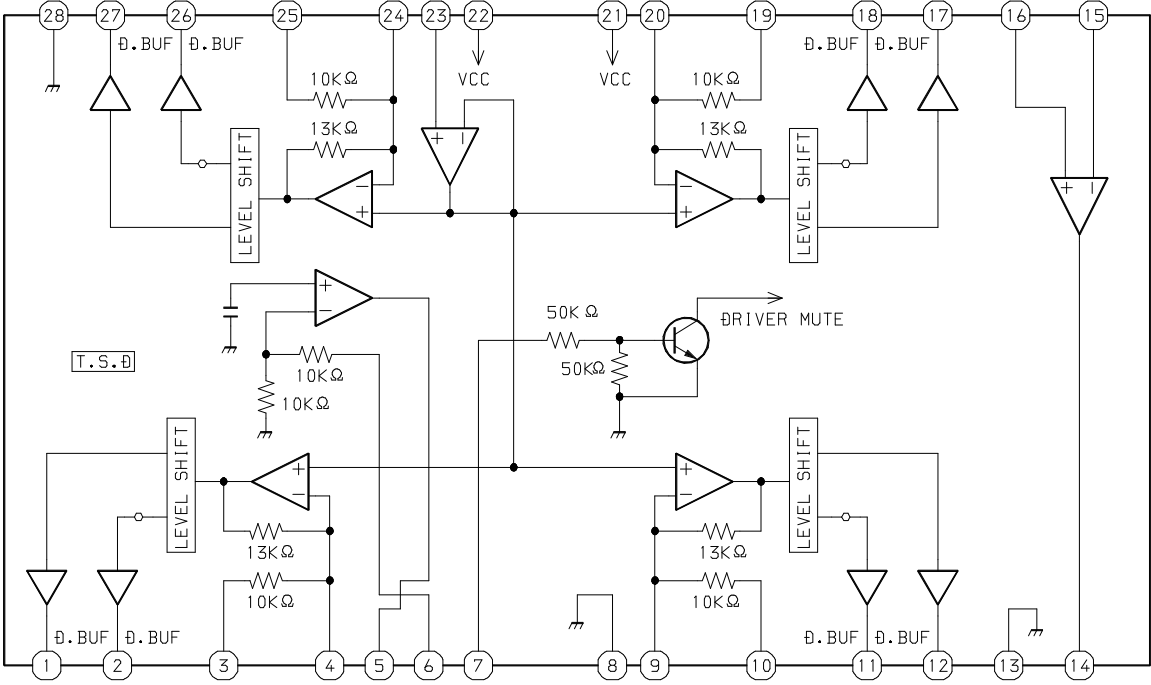


IC BLOCK DIAGRAM

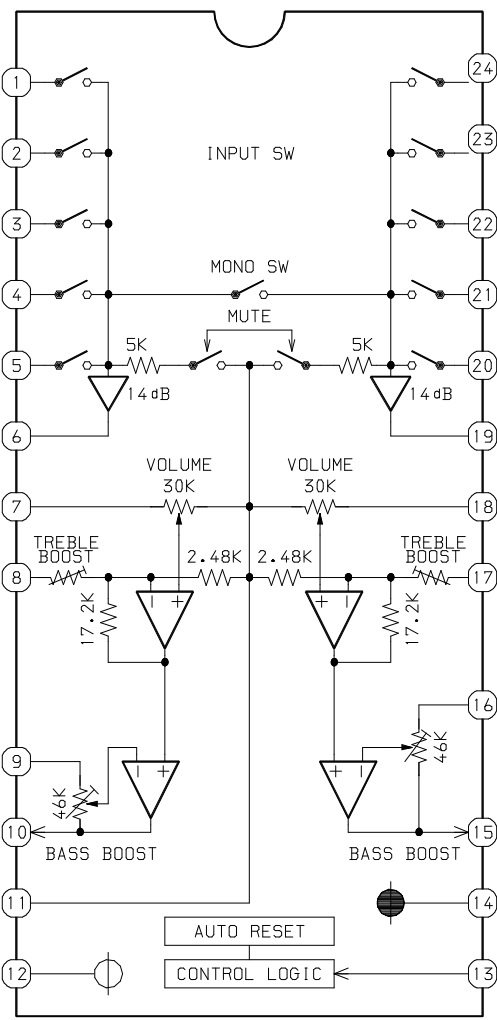
IC, LA1828



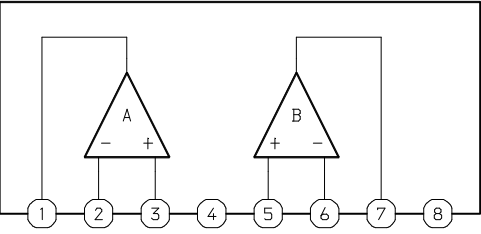
IC, MM1469XH



IC, M62495AFP



IC, NJM14558LD



ADJUSTMENT <RADIO / TAPE / CD>

< RADIO SECTION >

1. AM Frequency Range Adjustment
 - Test Point: TP5 (LCH), TP6 (RCH)
 - Adjustment location:

L006	517kHz
TC003	1750kHz
2. AM Tracking Adjustment
 - Test Point: TP5 (LCH), TP6 (RCH)
 - Adjustment location:

L003	600kHz
TC004	1400kHz
3. AM IF Adjustment
 - Test Point: TP5 (LCH), TP6 (RCH)
 - Adjustment location:

L007	455kHz
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4. FM Frequency Range Adjustment
 - Test Point: TP5 (LCH), TP6 (RCH)
 - Adjustment location:

L005	87MHz
TC001	109MHz
5. FM Tracking Adjustment
 - Test Point: TP5 (LCH), TP6 (RCH)
 - Adjustment location:

L004	88MHz
TC002	108MHz
6. FM IF Adjustment
 - Test Point: TP5 (LCH), TP6 (RCH)
 - Adjustment location:

L008, L009	10.7MHz
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< TAPE RECORDER SECTION >

1. Bias Adjustment

Settings:

 - Test tape: TTA-630
 - Test point: TP2
 - Adjustment location:

L801	85kHz±2kHz
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2. Azimuth Adjustment

Settings:

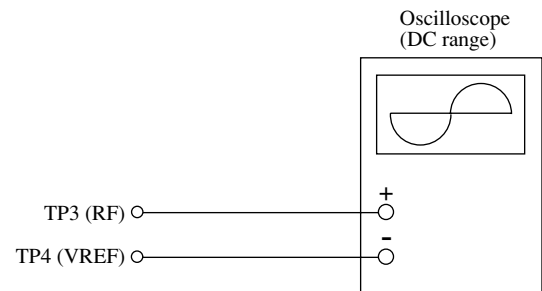
 - Test tape: TTA-320
 - Test point: PHONE JACK (J201)
 - Adjustment location: Azimuth adjustment screw

Method: Play back the test tape and adjust the screw so that the output is maximum.

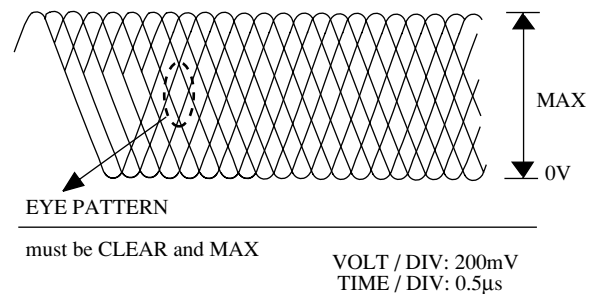
< CD SECTION >

1. Focus Bias Adjustment

Make the focus bias adjustment when replacing and repairing the optical block.



- 1) Connect an oscilloscope to the test point TP3 (RF) and TP4 (VREF).
- 2) Turn on the power switch.
- 3) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
- 4) Adjust SFR430 so that the RF signal at the test point TP3 (RF) is MAX and CLEAREST.



IC DESCRIPTION

IC, LC78622NE

Pin No.	Pin Name	I/O	Description
1	DEFI	I	Defect detection signal (DEF) input. ("L" is applied when not used.)
2	TAI	I	For PLL/Test input. (Connected to 0V)
3	PDO	O	Phase comparison output to control the external VCO.
4	VVSS	–	Ground of the built-in VCO. Normally 0V.
5	ISSET	I	For the connection of a resistor which adjusts the PDO output current.
6	VVDD	–	Power supply of the built-in VCO.
7	FR	I	Adjusts the VCO frequency range.
8	VSS	–	Ground of digital circuits. Normally 0V.
9	EFMO	O	For slice level control/EFM signal output.
10	EFMIN	I	EFM signal input.
11	T2	I	Test input. A pull-down resistor is incorporated. (Connected to 0V)
12	CLV+	O	Disc motor control tri-state output.
13	CLV-		
14	$V/\bar{P}$	O	Output to monitor the automatic switching between the rough servo control and phase servo control. "H" : Rough servo, "L": Phase servo.
15	HFL	I	Track detection signal input. Schmitt trigger input.
16	TES	I	Track error signal input. Schmitt trigger input.
17	TOFF	O	Tracking off output.
18	TGL	O	Tracking gain switching output. "L" raises the gain.
19	JP+	O	Track jump control tri-state output.
20	JP-		
21	PCK	O	Monitors the clock signal for EFM data playback. 4.3218MHz when the phase is locked. (Not used)
22	FSEQ	O	Sync signal detection output. Goes "H" when the sync signal detected from the EFM signal matches the sync signal generated internally. (Not used)
23	VDD	–	Power supply of digital circuits.
24	SL+	O	Controlled by serial data command issued by the microprocessor.
25	SL–	O	Controlled by serial data command issued by the microprocessor.
26	NC	–	Not connected.
27	PU IN	I	CD pickup inside limit switch.
28	RW	O	CD-RW disc select control.
29	EMPH	O	Deemphasis monitor. "H": when playing a deemphasis disc. (Not used)
30	C2F	O	C2 flag output. (Not used)
31	DOUT	O	Output a digital OUT signal. (EIAJ format) (Not used)
32	T3	I	Test input. (Connected to 0V)
33	T4		
34	NC	–	Not connected.
35	MUTEL	O	Lch 1-bit DAC/Lch muting output. (Not used)
36	LVDD	–	Lch power supply.
37	LCHO	O	Lch output.
38	LVSS	–	Lch ground. Normally 0V.

Pin No.	Pin Name	I/O	Description
39	RVSS	–	Rch 1-bit DAC/Rch ground. Normally 0V.
40	RCHO	O	Rch output.
41	RVDD	–	Rch power supply.
42	MUTER	O	Rch muting output. (Not used)
43	XVDD	–	Power supply of crystal oscillator.
44	XOUT	O	For the connection of a 16.93MHz crystal oscillator.
45	XIN	I	
46	XVSS	–	Ground of crystal oscillator. Normally 0V.
47	SBSY	O	Subcode block sync signal output. (Not used)
48	EFLG	O	C1, C2, single, duplex correction monitor. (Not used)
49	PW	O	Output of subcodes P, Q, R, S, T, U and W. (Not used)
50	SFSY	O	Subcode frame sync signal output. Falls when the subcode is set to the standby state. (No used)
51	SBCK	I	Subcode read-out clock input. Schmitt trigger input. ("L" is applied when not used.) (Connected to 0V)
52	FSX	O	7.35kHz sync signal output obtained by dividing the oscillator frequency. (Not used)
53	WRQ	O	Subcode Q standby output.
54	RWC	I	Read/write control input. Schmitt trigger input.
55	SQOUT	O	Subcode Q output.
56	COIN	I	Command input from the microprocessor.
57	$\overline{\text{CQCK}}$	I	Command input retrieval clock or subcode retrieval clock input from SQOUT. Schmitt trigger input.
58	RES	I	LC78622NE reset input.
59	T11	O	Test output. Set to open (normally "L" output.) (Not used)
60	16M	O	16.9344MHz output. (Not used)
61	4.2M	O	4.236MHz output.
62	T5	I	Test input. A pull-down resistor is incorporated. (Connected to 0V)
63	$\overline{\text{CS}}$	I	Chip select input. (Connected to 0V)
64	T1	I	Test input with no pull-down resistor. (Connected to 0V)

Pin No.	Pin Name	I/O	Description
1	FIN2	I	For the connection of the pickup photodiode. Addition to the FIN1 pin creates an RF signal and subtraction from it create an EF signal.
2	FIN1	I	For the connection of the pickup photodiode.
3	E	I	For the connection of the pickup photodiode. Subtraction from the F pin creates a TE signal.
4	F	I	For the connection of the pickup photodiode.
5	TB	I	Inputs the DC components in the TE signal.
6	TE–	I	For the connection of a resistor which sets the gain of the TE signal between this pin and the TE pin.
7	TE	O	TE signal output.
8	TESI	I	TES (track error sense) comparator input. The TE signal is passed through a BPF.
9	SCI	I	Shock detection input.
10	TH	I	Sets the time constant for the tracking gain.
11	TA	O	TA amp output.
12	TD–	I	Composes the tracking phase compensation constant between the TD and VR pins.
13	TD	O	Sets the tracking phase compensation.
14	JP	I	Sets the amplitude of the tracking jump signal (kick pulses).
15	TO	O	Tracking control signal output.
16	FD	O	Focusing control signal output.
17	FD–	I	Composes the focusing phase compensation constant between the FD and FA pins.
18	FA	O	Composes the focusing phase compensation constant between the FD- and FA- pins.
19	FA–	I	Composes the focusing phase compensation constant between the FA and FE pins.
20	FE	O	FE signal output.
21	FE–	I	For the connection of a resistor which sets the gain of the FE signal between this pin and the TE pin.
22	A-GND	–	Ground of analog signals.
23	SP	O	Single-ended output of the signals input to the CV+ and CV- pins.
24	SPI	I	Spindle amp input.
25	SPG	I	For the connection of a resistor which sets the gain in the spindle 12cm mode. (Not used)
26	SP–	I	For the connection of the spindle phase compensation constant with the SPD pin.
27	SPD	O	Spindle control signal output.
28	SLEQ	I	For the connection of sled phase compensation constant.
29	SLD	O	Sled control signal output.
30	SL–	I	Sled feed signal input from the microprocessor.
31	SL+		
32	JP–	I	Tracking signal input from the DSP.
33	JP+		
34	TGL	I	Tracking gain control signal input from the DSP. Low gain when TGL is "H".
35	TOFF	I	Tracking off control signal input from the DSP. Off when TOFF is "H".
36	TES	O	Outputs the TES signal to the DSP.

Pin No.	Pin Name	I/O	Description
37	HFL	O	The HFL (high frequency level) signal is used to judge whether the main beam is positioned on the pit or on the mirror.
38	SLOF	I	Sled servo off control input.
39	CV–	I	CLV error signal input from the DSP.
40	CV+		
41	RFSM	O	RF output.
42	RFS–	O	Sets the RF gain and the EFM signal's 3T compensation constant together with the RFSM pin.
43	SLC	O	The SLC (slice level control) signal is output to control the DSP's data slice level of the RF waveform.
44	SLI	I	Input to control the DSP's data slice level.
45	D-GND	–	Ground of digital signals.
46	FSC	O	Output for the focus search smoothing capacitor.
47	TBC	I	The TBC (tracking balance control) signal sets the EF balance variation range.
48	NC	–	Not connected.
49	DEF	O	Disc defect detection output.
50	CLK	I	Reference clock input. 4.23MHz is input from the DSP.
51	CL	I	Microprocessor command clock input.
52	DAT	I	Microprocessor command data input.
53	CE	I	Microprocessor chip enable input.
54	DRF	O	DRF (detect RF) is an output to detect the RF level.
55	FSS	I	The FSS (focus search select) signal switches the focus search modes (+/-search / +search with respect to the reference voltage). (Not used)
56	VCC2	–	VCC of servo and digital circuits.
57	REFI	–	For the connection of bypass capacitor for the reference voltage.
58	VR	O	Reference voltage output.
59	LF2	–	Sets the time constant for disc defect detection.
60	PH1	–	For the connection of a capacitor to hold the RF signal peak.
61	BH1	–	For the connection of a capacitor to hold the RF signal bottom.
62	LDD	O	APC circuit output.
63	LDS	I	APC circuit input.
64	VCC1	–	VCC of RF signal circuits.

IC, LC865516A-5T66

Pin No.	Pin Name	I/O	Description
1	$\overline{\text{SEG E}}$	O	SEG E control.
2	$\overline{\text{SEG F}}$	O	SEG F control.
3	$\overline{\text{SEG G}}$	O	SEG G control.
4	NC	-	Not connected.
5	I-RST	I	Microprocessor reset input.
6	XT1-IN	I	Connected to an external 32.768 kHz crystal oscillator.
7	NC	-	Not connected.
8	XT2-OUT	O	Connected to an external 32.768 kHz crystal oscillator.
9	VSS	-	GND.
10	CF1-IN	I	Connected to an external 5.76 MHz ceramic filter.
11	CF2-OUT	O	Connected to an external 5.76 MHz ceramic filter.
12	VDD	-	Microprocessor power supply (+5 V).
13	I-KEY0	I	Key AD input. (AD)
14	I-KEY1	I	Key AD input. (AD)
15	I-TAPE	I	Deck status input. (AD)
16	$\overline{\text{I-DOOR SW (C)}}$	I	CD door switch status input.
17	O-SFT.CLK	O	Main clock shift output.
18	NC	-	Not connected.
19	O-BASS.LED	O	BASS LED ON/OFF control output. (Not used)
20	O-QSOUND	O	QSOUND LED ON/OFF control output.
21	TUNNED-LED	O	TUN LED ON/OFF control output.
22	I-RF(C)	I	CD RF level detection input.
23	I-WRSQ(C)	I	CD subcode Q standby input.
24	NC	-	Not connected.
25	I-RMC	I	Remote control input.
26	O-CD	O	CD power control output.
27	O-RADIO	O	RADIO power control output.
28	O-P.CONT	O	The main power supply control output.
29	NC	-	Not connected.
30	O-REC.BEAT	O	Beat switch control output.
31	O-MUTE	O	Main mute output.
32	O-DIGIT	O	7-segment LED power supply control output.
33	O-REP.LED	O	REPEAT LED ON/OFF control output.
34	O-COIN(C)	O	CD command output.
35	I-SQSO(C)	I	CD subcode Q input.
36	O-SQCK(C)	O	CD command/CLK for subcode.
37	O-RWC(C)	O	CD read/write control output.
38	O-DATA(S)	O	Data output to M62495AFP.
39	O-CD.LED	O	LED ON/OFF control output for the CD function.
40	O-RADIO.LED	O	LED ON/OFF control output for the RADIO function.
41	O-TAPE.LED(X)	O	LED ON/OFF control output for the TAPE function. (Not used)

Pin No.	Pin Name	I/O	Description
42	NC	-	Not connected.
43	$\overline{\text{SEG DP}}$	O	SEG DP control.
44	$\overline{\text{SEG A}}$	O	SEG A control.
45	$\overline{\text{SEG B}}$	O	SEG B control.
46	$\overline{\text{SEG C}}$	O	SEG C control.
47	$\overline{\text{SEG D}}$	O	SEG D control.
48	NC	-	Not connected.

VOLTAGE CHART

IC001, LA1828

PIN NO.	FM	AM
1	0.93	0
2	0	0
3	4.73	4.88
4	4.73	4.88
5	4.68	4.88
6	0	0
7	1.24	1.24
8	1.35	1.36
9	0	0
10	4.22	0
11	0.01	3.2
12	4.8	4.88
13	0.59	0.3
14	1.27	1.25
15	1.27	1.25
16	0	0
17	0	0
18	4.8	4.88
19	0.01	0
20	4.8	4.88
21	4.8	4.88
22	4.8	4.88
23	0	0
24	0.33	1.26

IC202, TA8227P

PIN NO.	ACTIVE	STATIC
1	12.31	11.5
2	6.57	6.1
3	12	1.5
4	0	0
5	0.56	0.56
6	0	0
7	0	0
8	0.56	0.56
9	6.65	6.41
10	12	1.42
11	6.46	6.2
12	13.1	12.5

IC401, LA9241ML

PIN NO.	ACTIVE	STATIC
1	2.67	2.53
2	2.65	2.53
3	2.67	2.53
4	2.67	2.56
5	2.67	2.53
6	2.66	2.55
7,8	2.67	2.55
9	2.65	2.54
10	2.66	2.52
11	2.67	2.55
12	2.7	2.54
13	2.67	2.55
14	2.7	2.54
15	2.72	2.54
16	2.69	2.54
17	2.67	2.55
18	2.69	2.55
19	2.73	2.54
20	2.69	2.54
21	0	2.54
22	2.67	0
23	2.67	2.53
24	2.65	2.54
25	2.69	2.56
26	2.75	2.56
27	2.75	2.5
28	2.68	2.55
29	2.75	2.55
30	2.45	2.33
31	2.45	2.34
32,33	0	0
34	5.22	5.01
35	0	5.01
36	1.4	0.04
37	0	0.01
38	0	5
39	0	0
40	0.25	0
41	2.45	1.61
42	2.54	2.45
43	2.54	2.41
44	2.63	2.53

PIN NO.	ACTIVE	STATIC
45	0	0
46	2.64	2.54
47	2.65	2.55
48	0	0
49	0	0
50	2.54	2.44
51	4.77	4.71
52	4.86	4.71
53	0	0.07
54	5.11	0.03
55	0.16	0.14
56	5.2	5.01
57	2.64	2.54
58	2.64	2.56
59	2.59	0.98
60	2.57	0.99
61	2.3	2.24
62	3.86	4.35
63	0.19	0
64	5.18	5.02

IC402, LC78622NE

PIN NO.	ACTIVE	STATIC
1	0	0
2	0	0
3	1.8	0.01
4	0	0
5	2.1	1.85
6	5.6	4.98
7	0.4	0.07
8	0	0
9	2.8	2.52
10	2.7	2.41
11	0	0
12	0.3	0
13	0	0
14	0	5
15	0	0.01
16	1.5	0.04
17	0	5.01
18	5.6	5.01
19,20	0	0
21	2.7	2.48
22	5.6	0
23	5.6	5.02
24,25	0	0
26	0	5
27	5.6	5
28,29	0	0
30	0	4.95
31	2.8	2.48
32~34	0	0
35	0	5.02
36	5.3	4.77
37	2.15	1.94
38,39	0	5
40	2.15	1.95
41	5.3	4.77
42	0	5
43	5.5	5.02
44	2.3	2.08
45	2.3	2.06
46	2.3	0
47	0.1	0.08

PIN NO.	ACTIVE	STATIC
48	0	2.27
49	0.1	0
50	2.77	2.5
51	0	0
52	2.77	2.5
53	0.9	0
54	0	0.07
55	0	0
56	5.16	4.71
57	5	4.71
58	5.5	5
59	0	0
60	2.25	2.02
61	2.66	2.41
62~64	0	0

IC404, MM1469XH

PIN NO.	ACTIVE	STATIC
1	4.2	3.61
2	4.2	3.62
3,4	2.95	2.54
5	8.2	7.24
6,7	5.8	5.02
8	0	0
9	2.95	2.55
10	3	2.55
11	4.27	3.61
12	4.01	3.63
13	0	0
14	8.4	7.39
15	1.45	0.78
16	1.45	0.8
17	4.1	3.63
18	4.1	3.62
19	2.9	2.54
20	2.9	2.55
21,22	8.9	7.96
23,24	2.9	2.55
25	2.9	2.54
26	4.5	3.61
27	3.71	3.62
28	0	0

IC801, NJM14558LD

PIN NO.	TAPE	REC
1	3.37	3.38
2	3.37	3.39
3	3.34	3.35
4	0	0
5	3.34	3.35
6	3.37	3.39
7	3.37	3.38
8	6.83	6.82

IC203, M62495AFP

PIN NO.	CD	TAPE	TUNER
1	2.54	2.55	2.56
2	2.55	2.55	2.56
3	2.55	2.55	2.56
4	0.7	0.8	2.56
5	2.54	2.55	2.57
6	2.56	2.56	2.57
7	2.55	2.55	2.57
8	2.55	2.56	2.57
9	2.55	2.55	2.56
10	2.55	2.55	2.57
11	2.56	2.56	2.57
12	5.08	5.09	5.11
13	2.82	2.83	2.83
14	0	0	0
15	2.55	2.55	2.56
16	2.55	2.55	2.56
17	2.55	2.56	2.57
18	2.55	2.55	2.56
19	2.57	2.57	2.58
20	2.54	2.55	2.57
21	0.7	0.58	0.69
22	2.54	2.06	2.56
23	2.55	2.56	2.56
24	2.54	2.55	2.56

IC601, LC865516A-5T66

PIN NO.	TAPE	TUNER	CD
1	0.12	0.12	0.1
2	0.12	0.11	0.09
3	0.12	0.11	8.53
4	0.07	0.03	0.26
5	4.65	4.7	4.61
6	1.59	1.64	1.58
7	0	0	0
8	2.52	2.58	2.49
9	0	0.02	0
10	2.11	4.4	2.09
11	2.25	4.9	2.23
12	4.8	4.9	4.76
13	4.99	5.1	5.06
14	4.99	5.1	5.06
15	0.9	5.1	5.07

PIN NO.	TAPE	TUNER	CD
16	0	0	4.84
17	0.03	0.02	0
18	1.2	0	0
19	4.8	4.9	4.76
20	0.03	0.03	0.01
21	5.23	5.34	5.2
22	0	0	0.01
23	0.04	0.05	0.01
24	0	0	0
25	4.77	4.86	4.74
26	0.06	0.05	4.75
27	0.06	4.9	0.04
28	4.76	4.87	4.71
29	0	0.06	0
30	0.06	0.06	0.04
31	0.06	0.06	0.04
32	0.26	0.16	0.24
33	0.07	0.06	0.04
34	0.05	0.05	4.75
35	0.08	0.09	1.94
36	0.05	0.05	4.75
37	0.05	0.05	0.03
38	0.06	0.06	0.04
39	0.05	0.05	4.72
40	0.05	4.86	0.03
41	4.79	0.05	0.03
42	0.34	2.82	2.39
43	9.54	9.44	6.11
44	0.12	0.12	0.1
45	9.55	9.11	0.11
46	0.12	0.12	0.1
47	0.12	0.12	0.1
48	2.3	2.3	2.2

Q001

PIN	FM	AM
E	2.22	2.21
C	4.07	4.06
B	2.95	2.95

Q002

PIN	FM	AM
E	4.82	4.9
C	8	8
B	5.52	5.58

Q003

PIN	FM	AM
E	5.53	5.59
C	5.52	5.59
B	4.85	4.9

Q004

PIN	FM	AM
E	0	0
C	4.06	4.12
B	2.98	3.03

Q243

PIN	ACTIVE	STATIC
E	0	0
C	0	0
B	0.12	0.64

Q244

PIN	ACTIVE	STATIC
E	0	0
C	0	0
B	0.12	0.64

Q301

PIN	ACTIVE	STATIC
E	12.2	12.66
C	11.4	12
B	11.5	11.99

Q302

PIN	ACTIVE	STATIC
E	11.5	11.99
C	11.4	12
B	10.9	11.32

Q303

PIN	ACTIVE	STATIC
E	0	0
C	0	0
B	4.57	4.57

Q304

PIN	ACTIVE	STATIC
E	11.38	11.97
C	7.94	7.98
B	10.75	11.34

Q305

PIN	ACTIVE	STATIC
E	7.23	7.26
C	10.56	11.23
B	7.85	7.87

Q306

PIN	ACTIVE	STATIC
E	5.08	5.09
C	7.94	7.98
B	10.75	5.81

Q310

PIN	ACTIVE	STATIC
E	5.55	5.56
C	10.45	10.83
B	6.25	6.26

Q321

PIN	ACTIVE	STATIC
E	0	0
C	0.01	0.02
B	0.6	0.7

Q401

PIN	ACTIVE	STATIC
E	4.46	4.99
C	2.11	1.56
B	3.76	4.35

Q402

PIN	ACTIVE	STATIC
E	7.87	7.97
C	5.3	5.15
B	7.17	7.28

Q403

PIN	ACTIVE	STATIC
E	2.56	2.56
C	2.56	2.56
B	0	0

Q406

PIN	ACTIVE	STATIC
E	0	0
C	4.6	4.6
B	0	0

Q407

PIN	ACTIVE	STATIC
E	4.6	4.58
C	2.57	2.55
B	2.56	2.55

Q408

PIN	ACTIVE	STATIC
E	4.6	4.58
C	2.57	0.55
B	2.56	2.55

Q491

PIN	ACTIVE	STATIC
E	7.91	7.98
C	7.88	7.97
B	7.15	7.23

Q492

PIN	ACTIVE	STATIC
E	0	0
C	0.14	0.14
B	4.41	4.41

Q801

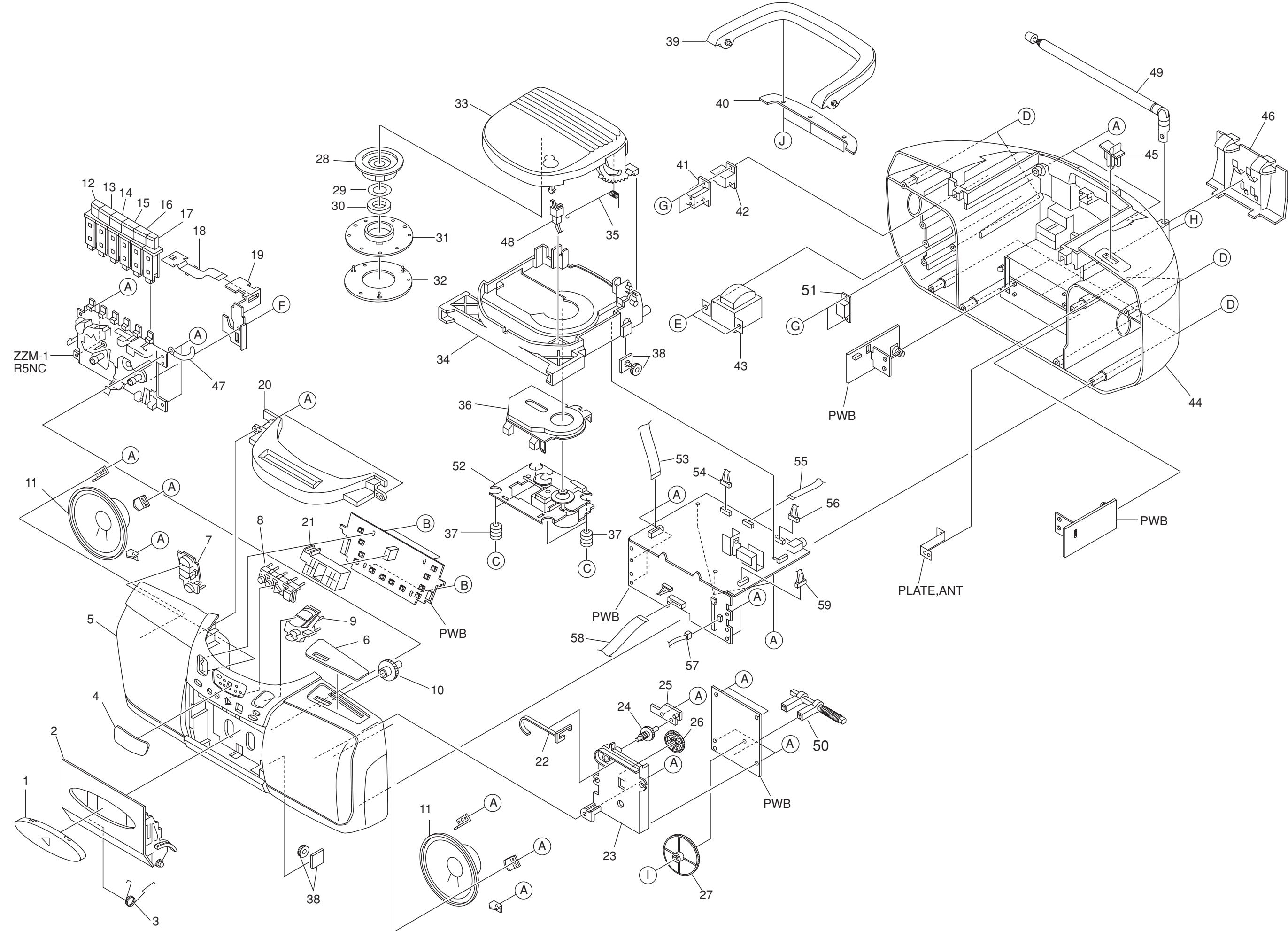
PIN	TAPE	REC
E	0	1.64
C	0	5.9
B	0	2.31

Q810

PIN	TAPE	REC
E	3.36	3.38
C	0.05	13.85
B	0.13	0.13

Q841

PIN	TAPE	REC
E	0	0
C	0.72	0.01
B	0	5.73



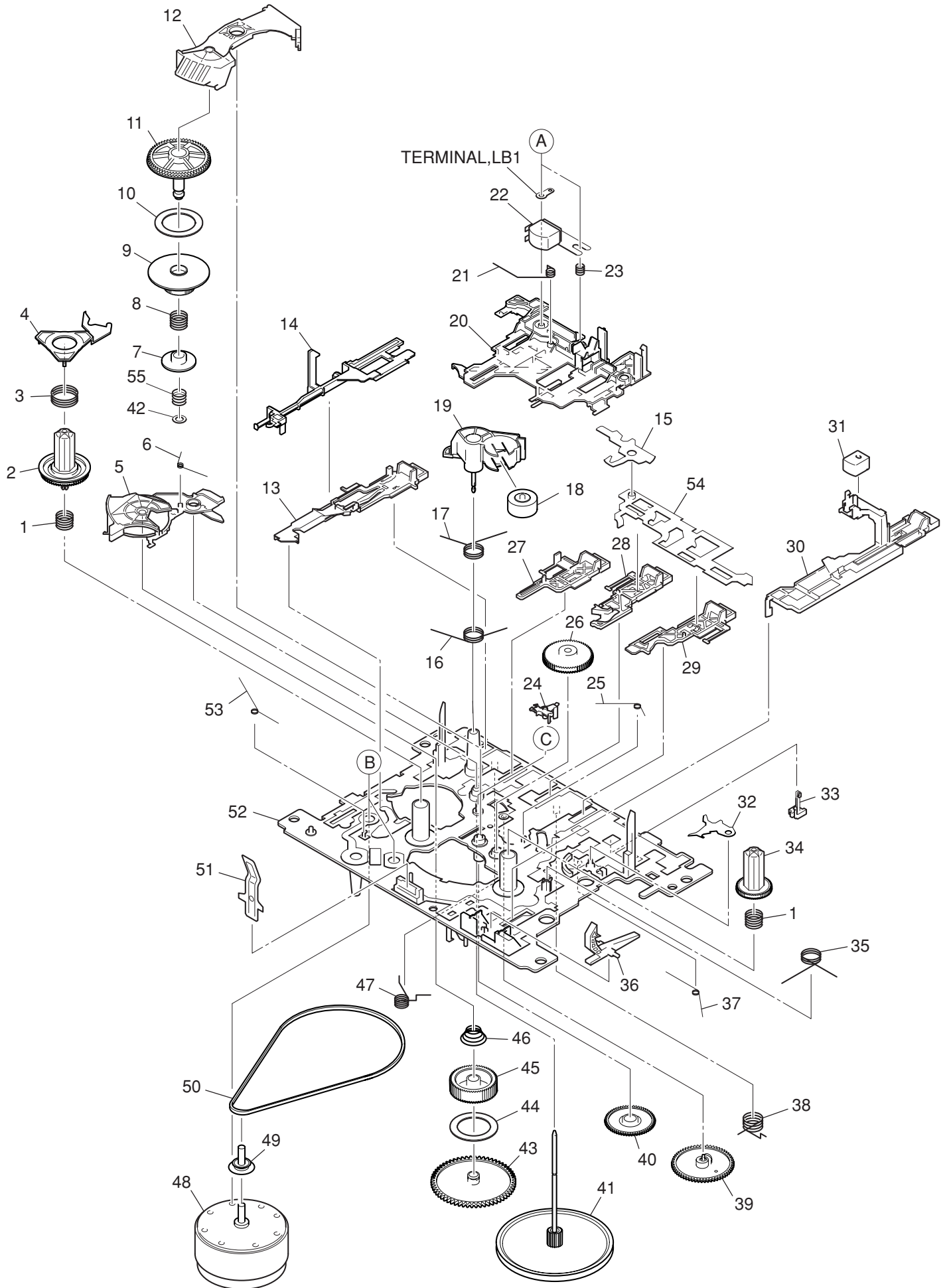
MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-CDA-009-010		WINDOW, CASS< [W] , [S] >	23	8B-CDA-202-010		HLDR, TU
1	8B-CDA-086-010		WINDOW, CASS (D) < [D] >	24	8A-CDA-216-110		GEAR, TU B
1	8B-CDA-093-010		WINDOW, CASS (G) < [G] >	25	8A-CDA-203-110		GUIDE, GEAR
1	8B-CDA-154-010		WINDOW, CASS (P) < [P] >	26	8A-CDA-202-110		GEAR, RELAY
1	8B-CDA-073-010		WINDOW, CASS (L) < [L] >	27	8A-CDA-215-010		DRUM, TU
2	8B-CDA-132-010		LID, CASS U (W) < [W] >	28	86-CT9-217-110		HLDR, CHUCK A(S)
2	8B-CDA-003-010		LID, CASS<EXCEPT [W] >	29	86-CT9-222-010		PLATE, MAGNET
3	8B-CDA-208-010		SPR-T, CASS	30	87-036-368-010		MAGNET
4	8B-CDA-089-010		WINDOW, DISP LH< [W] , [S] >	31	8Z-CT6-213-110		BASE, CHUCK
4	8B-CDA-127-010		WINDOW, DISP LH (D) < [D] >	32	8Z-CT6-214-110		RING, CHUCK
4	8B-CDA-125-010		WINDOW, DISP LH (G) < [G] >	33	8B-CDA-006-010		LID, CD< [W] , [S] >
4	8B-CDA-126-010		WINDOW, DISP LH (P) < [P] >	33	8B-CDA-084-010		LID, CD (D) < [D] >
4	8B-CDA-124-010		WINDOW, DISP LH (L) < [L] >	33	8B-CDA-104-010		LID, CD G< [G] >
5	8B-CDA-058-010		CABI ASSY, FRONT LH (W) < [W] >	33	8B-CDA-129-010		LID, CD (P) < [P] >
5	8B-CDA-161-010		CABI ASSY, FRONT LH< [S] >	33	8B-CDA-135-010		LID, CD U (L) < [L] >
5	8B-CDA-056-010		CABI ASSY, FRONT LH (D) < [D] >	34	8B-CDA-063-010		CHAS, CD (W) < [W] >
5	8B-CDA-066-010		CABI ASSY, FRONT LH (G) < [G] >	34	8B-CDA-005-010		CHAS, CD<EXCEPT [W] >
5	8B-CDA-067-010		CABI ASSY, FRONT LH (P) < [P] >	35	8B-CDA-206-010		SPR-T, CD
5	8B-CDA-059-010		CABI ASSY, FRONT LH (L) < [L] >	36	8Z-CDB-169-010		PANEL, CD SANYO
6	8B-CDA-087-010		WINDOW, TU LH<EXCEPT [L] >	37	88-CH6-220-010		CUSHION, CD A
6	8B-CDA-088-010		WINDOW, TU LH (L) < [L] >	38	87-063-165-010		OIL-DMPR 150
7	8B-CDA-017-010		KEY, FUNC C	39	8B-CHA-021-010		HANDL, ARM W< [W] >
8	8B-CDA-014-010		KEY, CD	39	8B-CDA-007-010		HANDL, ARM<EXCEPT [W] >
9	8B-CDA-016-010		KEY, FUNC B	40	8B-CHA-022-010		LID, HANDL W< [W] >
10	8B-CDA-011-010		KNOB, RTRY TU	40	8B-CDA-010-010		LID, HANDL<EXCEPT [W] >
11	8B-CDA-615-010		SPKR, 10 7OHM	41	8Z-CD5-634-010		COVER, AC SOCKET
12	8B-CDA-019-010		KEY, PAUSE< [W] , [S] >	42	87-A60-178-010		JACK, AC E W/SW
12	8B-CDA-149-010		KEY, PAUSE (D) < [D] >	43	8A-CDA-613-010		PT, H 2.5W
12	8B-CDA-095-010		KEY, PAUSE (G) < [G] >	44	8B-CDA-069-010		CABI, REAR LH (W) < [W] >
12	8B-CDA-160-010		KEY, PAUSE (P) < [P] >	44	8B-CDA-030-010		CABI, REAR LH<EXCEPT [W] >
12	8B-CDA-076-010		KEY, PAUSE (L) < [L] >	45	8B-CDA-018-010		KNOB, SL BAND
13	8B-CDA-020-010		KEY, STOP< [W] , [S] >	46	8B-CHA-020-010		LID, BATT W< [W] >
13	8B-CDA-148-010		KEY, STOP (D) < [D] >	46	8B-CDA-004-010		LID, BATT<EXCEPT [W] >
13	8B-CDA-096-010		KEY, STOP (G) < [G] >	47	87-064-185-010		HLDR, WIRE
13	8B-CDA-159-010		KEY, STOP (P) < [P] >	48	87-036-389-010		SW, PUSH LOCK
13	8B-CDA-077-010		KEY, STOP (L) < [L] >	49	87-A91-857-010		ANT, ROD 5SEC709
14	8B-CDA-021-010		KEY, FF< [W] , [S] >	50	88-CD6-661-010		HLDR, BAR ANT.
14	8B-CDA-147-010		KEY, FF (D) < [D] >	51	87-A91-369-010		SW, AC SL 2 2 2 SDKGA41700
14	8B-CDA-097-010		KEY, FF (G) < [G] >	52	M8-ZZK-E90-070		DA11T3C
14	8B-CDA-158-010		KEY, FF (P) < [P] >	53	8B-CDA-621-010		FF-CABLE, 16P CD-RF
14	8B-CDA-078-010		KEY, FF (L) < [L] >	54	8B-CDA-626-010		CONN ASSY, 2P DOOR
15	8B-CDA-022-010		KEY, REW< [W] , [S] >	55	8B-CDA-622-010		FF-CABLE, 8P CD-FR
15	8B-CDA-146-010		KEY, REW (D) < [D] >	56	8B-CDA-633-010		CONN ASSY, 4P SP
15	8B-CDA-098-010		KEY, REW (G) < [G] >	57	8B-CDA-630-010		CONN ASSY, 4P RPH
15	8B-CDA-157-010		KEY, REW (P) < [P] >	58	8B-CDA-620-010		FF-CABLE, 16P FR-MAIN
15	8B-CDA-079-010		KEY, REW (L) < [L] >	59	8B-CDA-631-010		CONN ASSY, 4P TA-ME
16	8B-CDA-023-010		KEY, PLAY< [W] , [S] >	A	87-751-096-410		VT2+3-10 GLD
16	8B-CDA-145-010		KEY, PLAY (D) < [D] >	B	87-721-096-410		QT2+3-10 GLD
16	8B-CDA-099-010		KEY, PLAY (G) < [G] >	C	8A-CK4-223-010		S-SCREW, CD
16	8B-CDA-156-010		KEY, PLAY (P) < [P] >	D	87-751-104-410		VT2+3-30
16	8B-CDA-080-010		KEY, PLAY (L) < [L] >	E	87-254-097-410		U+3-12 CR
17	8B-CDA-024-010		KEY, REC< [W] , [S] >	F	8A-CDA-222-010		S-SCREW, CASS+2.6-4
17	8B-CDA-144-010		KEY, REC (D) < [D] >	G	87-751-076-410		SCREW 2.6-12
17	8B-CDA-100-010		KEY, REC (G) < [G] >	H	87-B10-183-010		VT2+3-20 W/O SOLT
17	8B-CDA-155-010		KEY, REC (P) < [P] >	I	87-261-073-410		V+2.6-6
17	8B-CDA-081-010		KEY, REC (L) < [L] >	J	87-721-074-410		QT2+2.6-8 W/O SLOT
18	8A-CDA-221-010		SPR-P, REC				
19	8A-CDA-220-010		PLATE, REC				
20	8B-CDA-008-010		PANEL, TOP< [W] , [S] >				
20	8B-CDA-085-010		PANEL, TOP (D) < [D] >				
20	8B-CDA-106-010		PANEL, TOP G< [G] >				
20	8B-CDA-133-010		PANEL, TOP (P) < [P] >				
20	8B-CDA-136-010		PANEL, TOP U (L) < [L] >				
21	8B-CDA-201-010		HLDR, LED				
22	8B-CDA-040-010		POINTER, TU				

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	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green	HT	Transparent Gray

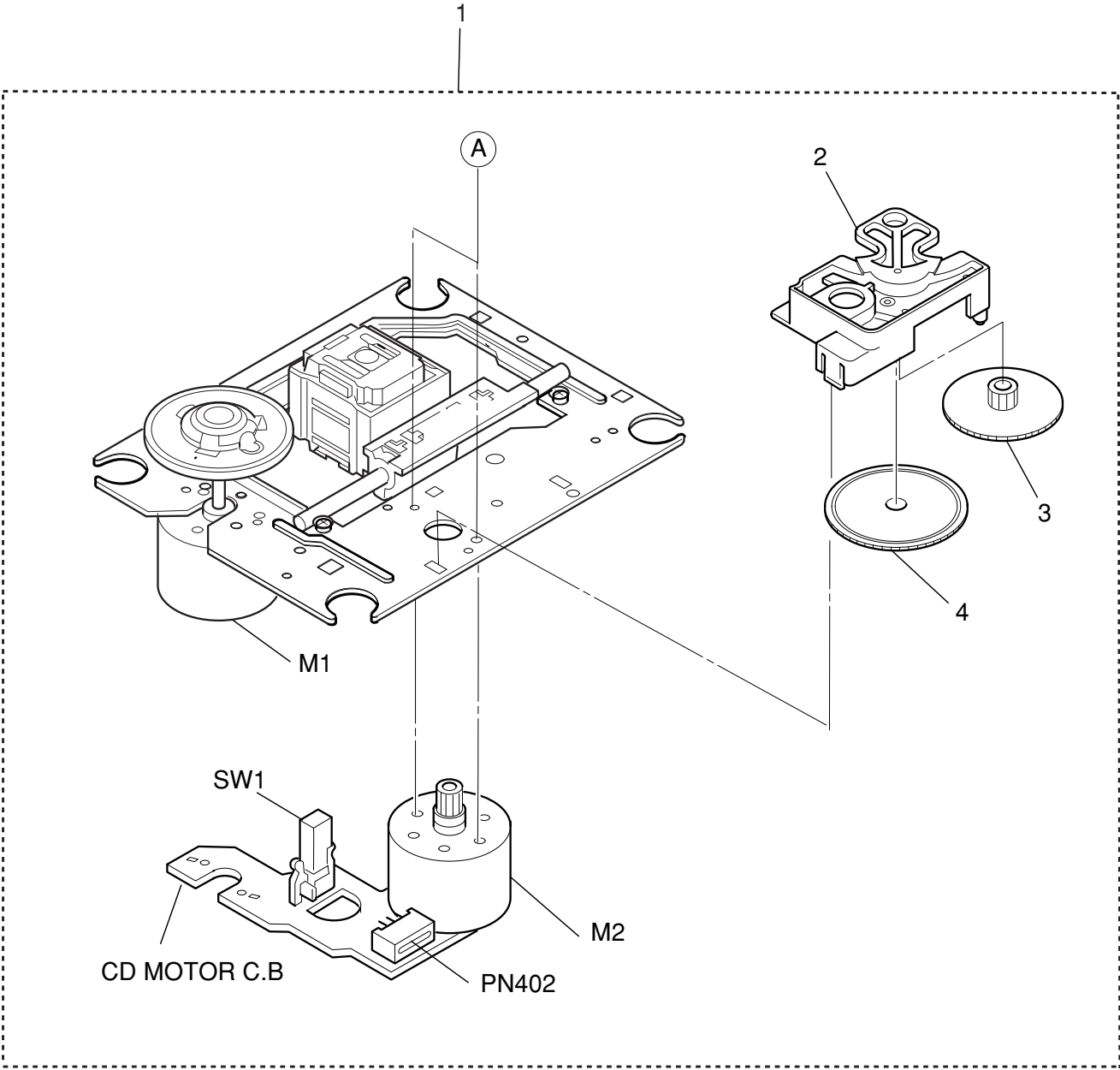
TAPE MECHANISM EXPLODED VIEW 1 / 1



TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-ZM1-254-310		SPR-C, REEL R	31	87-A91-819-010		HEAD, EH 2NSS-2200
2	8Z-ZM1-225-110		GEAR, REEL R	32	8Z-ZM1-215-010		LEVER, REC LOCK
3	8Z-ZM1-253-210		SPR-C, AUTO SENSOR	33	87-A91-492-010		SW, LEAF MSW18560
4	8Z-ZM1-217-110		LEVER, AUTO SENSOR	34	8Z-ZM1-226-010		GEAR, REEL L
5	8Z-ZM1-212-110		LEVER, T-UP	35	8Z-ZM1-241-210		SPR-T, PLAY
6	8Z-ZM1-245-310		SPR-T, AUTO	36	8Z-ZM1-220-110		LEVER, REC SENSOR
7	8Z-ZM1-236-010		CLR, SLIP FF/REW	37	8Z-ZM1-249-210		SPR-T, FR
8	8Z-ZM1-252-110		SPR-C, FF/REW	38	8Z-ZM1-242-310		SPR-T, FF/REW
9	8Z-ZM1-230-010		GEAR, SLIP FF/REW A	39	8Z-ZM3-244-010		GEAR, CAM TD20
10	8Z-ZM1-269-010		FELT, FF/REW 2	40	8Z-ZM1-232-010		GEAR, IDL FF/REW
11	8Z-ZM1-238-110		GEAR, SLIP FF/REW B 2	41	8Z-ZM1-290-010		FLY-WHL ASSY, ZZM1
12	8Z-ZM1-237-110		LEVER, FF/REW 2	42	8Z-ZM1-275-010		W-L, 1.47-4-0.25
13	8Z-ZM1-283-010		LEVER, PAUSE 2	43	8Z-ZM1-228-010		GEAR, SLIP T-UP B
14	8Z-ZM1-222-010		LEVER, E-LOCK M	44	8Z-ZM1-265-010		FELT, T-UP
15	8Z-ZM1-219-010		LEVER, E-OPEN	45	8Z-ZM1-227-010		GEAR, SLIP T-UP A
16	8Z-ZM1-244-110		SPR-T, T-UP	46	8Z-ZM1-251-210		SPR-C, T-UP SLIP
17	8Z-ZM1-247-310		SPR-T, PINCH	47	8Z-ZM1-243-310		SPR-T, STOP/PAUSE
18	8Z-ZM1-261-110		ROLLER ASSY, PINCH	48	87-A91-825-010		MOT, M09Y/Z
19	8Z-ZM1-221-210		LEVER, PINCH	49	8Z-ZM1-271-010		PULLEY, MOT ZZM-1
20	8Z-ZM1-205-310		LEVER, PLAY	50	8Z-ZM1-264-010		BELT, MAIN S
21	8Z-ZM1-248-210		SPR-T, BRG	51	8Z-ZM1-260-010		SPR-P, CASSETTE
22	87-A92-207-010		HEAD, AP-4211T4	52	8Z-ZM1-201-910		CHAS ASSY, ZZM-1
23	84-ZM2-227-310		SPR-C, AZIMUTH	53	8Z-ZM1-255-310		SPR-T, E-LOCK
24	8Z-ZM1-216-110		LEVER, AUTO	54	8Z-ZM1-214-210		LEVER, LOCK
25	8Z-ZM1-246-110		SPR-T, AUTO 2	55	8Z-ZM1-257-110		SPR-C, F/R
26	8Z-ZM1-233-110		GEAR, IDL REW	A	84-ZM2-242-010		S-SCREW, AZ1-2-6.4
27	8Z-ZM1-208-010		LEVER, STOP	B	8Z-ZM1-270-110		V+2.6 ZZM-1
28	8Z-ZM1-207-010		LEVER, FF	C	87-B10-301-010		W-L, 1.63-3.2-0.5 SLIT
29	8Z-ZM1-206-010		LEVER, REW				
30	8Z-ZM1-211-210		LEVER, REC 2				

CD MECHANISM EXPLODED VIEW 1 / 1



CD MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	M8-ZZK-E90-070	DA11T3C	
2	S2-121-A28-400	COVER GEAR	
3	S2-511-A21-000	GEAR MIDDLE	
4	S2-511-A21-100	GEAR,DRIVE	
A	S1-PN2-03R-OSE	SCR PAN PCS 2-3	

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