

# SERVICE MANUAL

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COMPACT DISC STEREO RADIO  
CASSETTE RECORDER

BASIC TAPE MECHANISM : ZZM-1AR2  
BASIC CD MECHANISM : DA11T3C

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## SIMPLE-2

# aiwa

S/M Code No. 09-003-343-9N2



# SPECIFICATIONS

## Tuner section

Frequency range, antenna — FM1. 65.0 - 74.0 MHz Rod antenna,  
FM2: 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 — 100 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, T.H.D. 10%), 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) — 435 × 184 × 277 mm  
Weight (excluding batteries) — 3.7 kg

- Design and specifications are subject to change without notice.

## ACCESSORIES/PACKAGE LIST

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

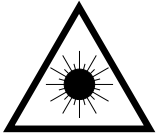
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CHK-907-010	IB,V(ER)B	
2	8Z-CK4-962-010	RC UNIT,RC-ZAT04 (VS)	
△ 3	87-A80-081-010	AC CORD SET ASSY,EZ BLK	

## 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 laserstråling, som överskrider gränsen för laserklass 1.

### CAUTION

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

### ATTENTION

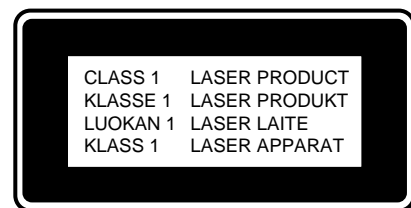
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

### ADVARSEL!

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

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

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

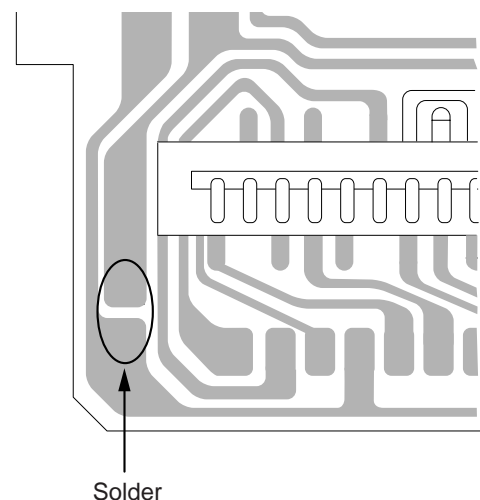


## Precaution to replace Optical block (SF-P101NR)

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

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

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。  
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REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC				C324	87-010-260-080		CAP, ELECT 47-25V
	87-A21-550-010	IC,TA2149N		C325	87-010-405-080		CAP, ELECT 10-50V
	87-A21-185-040	C-IC,LC72121M		C401	87-010-403-080		CAP, ELECT 3.3-50V
	87-A21-064-010	IC,LA4227		C402	87-010-197-080		CAP, CHIP 0.01 DM
	87-A21-520-040	C-IC,M61509FP		C403	87-010-263-080		CAP, ELECT 100-10V
	87-A20-446-010	C-IC,LA9241ML		C404	87-010-248-080		CAP, ELECT 220-10V
	87-A20-459-010	C-IC,LC78622ED		C405	87-010-197-080		CAP, CHIP 0.01 DM
	87-A21-093-010	IC,LA6541D		C406	87-010-374-080		CAP, ELECT 47-10V
	8A-CH4-661-010	C-IC,LC867132V-5P07		C407	87-010-178-080		CHIP CAP 1000P
	87-A20-650-010	IC,RPM6938-V11		C408	87-010-198-080		CAP, CHIP 0.022
	87-A21-431-010	IC,BA4560N		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
	89-327-125-080	CHIP TR,2SC2712GR		C416	87-010-545-080		CAP, ELECT 0.22-50V
	89-318-154-080	TR,2SC1815 (0.4W)		C417	87-012-157-080		C-CAP,S 330P-50 CH
	87-026-463-080	TR,2SA933S (0.3W)		C418	87-010-213-080		C-CAP,S 0.015-50 B
	89-112-965-080	TR,2SA1296 (0.75W)		C419	87-A11-608-080		C-CAP,S 0.33-25 K B
	87-026-291-080	TR,DTC124XS		C420	87-016-369-080		C-CAP,S 0.033-25 B K
	89-213-702-080	TR,2SB1370E		C421	87-A11-177-080		C-CAP,S 0.15-16 K B
	87-026-462-080	TR,2SC1740 S(RS 0.3W)		C422	87-010-184-080		CHIP CAPACITOR 3300P(K)
	89-109-332-380	TR,2SA933RS		C423	87-010-992-080		C-CAP,S 0.047-25 B
	89-113-187-080	TR,2SA1318TU		C424	87-A11-606-080		C-CAP,S 0.22-25 K B
	87-026-295-080	TR,DTC144TK		C425	87-010-176-080		C-CAP,S 680P-50 SL
	87-026-239-080	TR,DTC114TK (0.2W)		C426	87-A11-608-080		C-CAP,S 0.33-25 K B
	87-026-210-080	CHIP-TR,DTC144EK		C428	87-010-197-080		CAP, CHIP 0.01 DM
	87-026-237-080	CHIP-TR,DTC124XK		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-A40-913-040	C-VARI-CAP,HVC300B-TRU		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
	87-027-703-080	ZENER,HZ7A1L (5MA)		C436	87-010-374-080		CAP, ELECT 47-10V
	87-A40-912-040	C-DIODE,HSC277B-TRF		C437	87-010-404-080		CAP, ELECT 4.7-50V
	87-020-465-080	DIODE,ISS133 (110MA)		C438	87-016-669-080		C-CAP,S 0.1-25 K B
	87-A40-648-080	ZENER,MTZJ8.2A		C439	87-010-178-080		CHIP CAP 1000P
	87-A40-234-080	ZENER,MTZJ5.6A		C440	87-010-145-080		C-CAP,S 1P-50 CH
	87-017-978-080	DIODE,1N4003		C441	87-010-197-080		CAP, CHIP 0.01 DM
	87-027-702-080	DIODE,ZENER HZ6C2L (200MA)		C442	87-010-313-080		CAP, CHIP 18P
	87-A40-465-010	DIODE,FR202		C445	87-012-368-080		C-CAP,S 0.1-50 F
MAIN C.B				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	87-010-404-080	CAP, ELECT 4.7-50V		C448	87-010-315-080		C-CAP,S 27P-50 CH
C263	87-010-178-080	CHIP CAP 1000P		C450	87-012-140-080		CAP 470P
C264	87-010-178-080	CHIP CAP 1000P		C451	87-012-156-080		C-CAP,S 220P-50 CH
C265	87-010-263-080	CAP, ELECT 100-10V		C455	87-010-247-080		CAP, ELECT 100-50V
C266	87-010-263-080	CAP, ELECT 100-10V		C457	87-010-312-080		C-CAP,S 15P-50 CH
C267	87-010-112-080	CAP, ELECT 100-16V		C458	87-010-312-080		C-CAP,S 15P-50 CH
C268	87-010-112-080	CAP, ELECT 100-16V		C459	87-010-263-080		CAP, ELECT 100-10V
C271	87-010-237-080	CAP, ELECT 1000-16V		C460	87-015-819-080		CAPACITOR,0.01
C272	87-010-237-080	CAP, ELECT 1000-16V		C461	87-010-197-080		CAP, CHIP 0.01 DM
C278	87-010-405-080	CAP, ELECT 10-50V		C462	87-010-248-080		CAP, ELECT 220-10V
C279	87-010-385-080	CAP, ELECT 220-25V		C463	87-010-197-080		CAP, CHIP 0.01 DM
C301	87-016-495-000	CAP,E 3300-25 M SMG		C465	87-010-404-080		CAP, ELECT 4.7-50V
C306	87-010-404-080	CAP, ELECT 4.7-50V		C466	87-012-368-080		C-CAP,S 0.1-50 F
C307	87-010-401-080	CAP, ELECT 1-50V		C467	87-010-263-080		CAP, ELECT 100-10V
C308	87-010-221-080	CAP, ELECT 470-10V		C469	87-012-154-080		C-CAP,S 150P-50 CH
C311	87-010-263-080	CAP, ELECT 100-10V		C470	87-010-544-080		CAP, ELECT 0.1-50V
C312	87-010-385-080	CAP, ELECT 220-25V		C471	87-010-196-080		CHIP CAPACITOR,0.1-25
C321	87-010-197-080	CAP, CHIP 0.01 DM		C472	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C322	87-010-263-080	CAP, ELECT 100-10V		C473	87-010-196-080		CHIP CAPACITOR,0.1-25
				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
				C479	87-010-197-080		CAP, CHIP 0.01 DM

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C480	87-010-221-080		CAP, ELECT 470-10V	C45	87-010-312-080		C-CAP,S 15P-50 CH
C481	87-010-405-080		CAP, ELECT 10-50V	C46	87-010-197-080		CAP, CHIP 0.01 DM
C482	87-010-405-080		CAP, ELECT 10-50V	C47	87-010-197-080		CAP, CHIP 0.01 DM
C489	87-012-368-080		C-CAP,S 0.1-50 F	C48	87-010-197-080		CAP, CHIP 0.01 DM
C490	87-012-368-080		C-CAP,S 0.1-50 F	C49	87-012-140-080		CAP 470P
C491	87-010-197-080		CAP, CHIP 0.01 DM	C50	87-010-197-080		CAP, CHIP 0.01 DM
C492	87-010-221-080		CAP, ELECT 470-10V	C61	87-010-318-080		C-CAP,S 47P-50 CH
C494	87-010-197-080		CAP, CHIP 0.01 DM	C71	87-010-197-080		CAP, CHIP 0.01 DM
C495	87-016-669-080		C-CAP,S 0.1-25 K B	C72	87-010-263-080		CAP, ELECT 100-10V
C501	87-012-368-080		C-CAP,S 0.1-50 F	C73	87-010-197-080		CAP, CHIP 0.01 DM
C502	87-010-322-080		C-CAP,S 100P-50 CH	C75	87-010-197-080		CAP, CHIP 0.01 DM
C503	87-010-322-080		C-CAP,S 100P-50 CH	C92	87-010-197-080		CAP, CHIP 0.01 DM
C504	87-010-322-080		C-CAP,S 100P-50 CH	C93	87-010-197-080		CAP, CHIP 0.01 DM
C505	87-010-322-080		C-CAP,S 100P-50 CH	CF1	87-A91-094-010		FLTR,CDA10.7 MG80A
C506	87-010-322-080		C-CAP,S 100P-50 CH	CF2	87-008-261-010		FILTER, SFE10.7MA5-A
C510	87-016-669-080		C-CAP,S 0.1-25 K B	CF3	87-008-261-010		FILTER, SFE10.7MA5-A
CN202	8A-CH4-689-010		CONN,3P V 2.5	CN2	87-099-854-010		CONN,6P S2M-6W
CN205	87-A60-109-010		CONN,2P V S2M-2W	CN3	87-A60-110-010		CONN,4P V S2M-4W
CN301	8A-CH4-689-010		CONN,3P V 2.5	HD1	88-CD6-661-010		HLDR,BAR ANT.
CN401	87-A60-424-010		CONN,16P V TOC-B	HD2	88-CD6-661-010		HLDR,BAR ANT.
CN403	87-099-201-010		CONN,8P 6216 H	L2	87-A50-560-010		COIL,FM BPF(ACD)
CN802	8A-CH4-687-010		CONN,4P V 2.5	L3	8A-CH4-670-010		BAR-ANT,MW 2B-ACH(COI)
CNA402	8A-CD9-625-010		CONN ASSY,6P CD-ME	L4	87-A50-420-010		COIL,MW OSC(SYN)
L401	87-003-102-080		COIL, 10UH	L5	87-A50-637-010		COIL,FM RF V(ACH)
L404	87-003-152-080		COIL, 100UH	L6	87-A50-638-010		COIL,FM OSC V(ACH)
SFR430	87-024-437-080	SFR100K,RH063EC		L7	87-A91-308-010		FLTR,PCFAZH- 450T (TOK)
X401	8Z-CD5-633-010	VIB, CER16.93MHZ FCR16.93M2		L8	87-005-849-080		COIL,10UH(CECS)
TU C.B				L61	87-005-849-080		COIL,10UH(CECS)
				TC1	87-011-254-080		TRIMER,20P LAR
				X1	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
C1	87-010-313-080		CAP, CHIP 18P	TAPE C.B			
C2	87-010-316-080		C-CAP,S 33P-50 CH				
C3	87-010-313-080		CAP, CHIP 18P				
C5	87-016-669-080		C-CAP,S 0.1-25 K B	C211	87-A11-603-080		C-CAP,S 0.15-16 K B
C6	87-010-313-080		CAP, CHIP 18P	C212	87-A11-603-080		C-CAP,S 0.15-16 K B
C7	87-014-049-080		CAP,PP 470P-100 J	C215	87-016-460-080		C-CAP,S 0.22-16 B
C8	87-010-182-080		C-CAP,S 2200P-50 B	C216	87-016-460-080		C-CAP,S 0.22-16 B
C10	87-010-197-080		CAP, CHIP 0.01 DM	C231	87-010-213-080		C-CAP,S 0.015-50 B
C11	87-010-197-080		CAP, CHIP 0.01 DM				
C12	87-010-197-080		CAP, CHIP 0.01 DM	C232	87-010-213-080		C-CAP,S 0.015-50 B
C13	87-010-150-080		C-CAP,S 6P-50 CH	C233	87-A10-201-080		C-CAP,S0.33-16 KB
C14	87-010-303-080		C-CAP,S 330P-50CH	C234	87-A10-201-080		C-CAP,S0.33-16 KB
C15	87-010-178-080		CHIP CAP 1000P	C235	87-016-669-080		C-CAP,S 0.1-25 K B
C16	87-010-374-080		CAP, ELECT 47-10V	C236	87-016-669-080		C-CAP,S 0.1-25 K B
C17	87-010-198-080		CAP, CHIP 0.022				
C18	87-015-835-080		C-CAP,0.047 D	C237	87-010-371-080		CAP, ELECT 470-6.3V
C19	87-010-263-080		CAP, ELECT 100-10V	C239	87-010-197-080		CAP, CHIP 0.01 DM
C20	87-010-404-080		CAP, ELECT 4.7-50V	C240	87-010-197-080		CAP, CHIP 0.01 DM
C21	87-010-197-080		CAP, CHIP 0.01 DM	C247	87-010-401-080		CAP, ELECT 1-50V
C22	87-010-197-080		CAP, CHIP 0.01 DM	C248	87-010-401-080		CAP, ELECT 1-50V
C23	87-010-197-080		CAP, CHIP 0.01 DM				
C24	87-010-303-080		C-CAP,S 330P-50CH	C310	87-010-248-080		CAP, ELECT 220-10V
C25	87-016-460-080		C-CAP,S 0.22-16 B	C316	87-010-263-080		CAP, ELECT 100-10V
C27	87-A11-067-080		C-CAP,S 1-10 K B	C317	87-010-197-080		CAP, CHIP 0.01 DM
C28	87-016-669-080		C-CAP,S 0.1-25 K B	C801	87-010-248-080		CAP, ELECT 220-10V
C29	87-016-669-080		C-CAP,S 0.1-25 K B	C805	87-012-365-080		C-CAP,S 0.027-25VBK
C30	87-010-220-080		C-CAP,S 0.018-25 B				
C31	87-010-220-080		C-CAP,S 0.018-25 B	C806	87-012-365-080		C-CAP,S 0.027-25VBK
C33	87-012-358-080		C-CAP,S 0.47-10 F Z	C807	87-010-405-080		CAP, ELECT 10-50V
C34	87-012-358-080		C-CAP,S 0.47-10 F Z	C808	87-010-405-080		CAP, ELECT 10-50V
C35	87-015-819-080		CAPACITOR,0.01	C809	87-010-401-080		CAP, ELECT 1-50V
C36	87-010-263-080		CAP, ELECT 100-10V	C810	87-010-401-080		CAP, ELECT 1-50V
C37	87-010-197-080		CAP, CHIP 0.01 DM				
C38	87-010-263-080		CAP, ELECT 100-10V	C811	87-010-178-080		CHIP CAP 1000P
C39	87-010-404-080		CAP, ELECT 4.7-50V	C812	87-010-178-080		CHIP CAP 1000P
C40	87-010-197-080		CAP, CHIP 0.01 DM	C816	87-010-180-080		C-CER 1500P
C41	87-010-178-080		CHIP CAP 1000P	C817	87-010-180-080		C-CER 1500P
C42	87-010-178-080		CHIP CAP 1000P	C821	87-010-401-080		CAP, ELECT 1-50V
C43	87-010-178-080		CHIP CAP 1000P				
C44	87-010-311-080		CAP 12P	C822	87-010-401-080		CAP, ELECT 1-50V
				C823	87-010-178-080		CHIP CAP 1000P
				C824	87-010-178-080		CHIP CAP 1000P
				C829	87-010-178-080		CHIP CAP 1000P
				C830	87-010-178-080		CHIP CAP 1000P
				C831	87-010-198-080		CAP, CHIP 0.022
				C834	87-010-248-080		CAP, ELECT 220-10V

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C843	87-010-197-080		CAP, CHIP 0.01 DM	LED607	88-CD6-630-010		LED,934ID RED
C844	87-018-124-080		CAP, CER 270P-50V	LED608	88-CD6-630-010		LED,934ID RED
C845	87-010-178-080		CHIP CAP 1000P	LED610	88-CD6-631-010		LED,934GD GRN
C846	87-010-263-080		CAP, ELECT 100-10V	S601	87-A91-704-080		SW,TACT EVQ 214 05R
C851	87-010-186-080		CAP,CHIP 4700P	S602	87-A91-704-080		SW,TACT EVQ 214 05R
C852	87-010-178-080		CHIP CAP 1000P	S603	87-A91-704-080		SW,TACT EVQ 214 05R
C853	87-A11-132-080		CAP,TC U 0.01-50 K B	S604	87-A91-704-080		SW,TACT EVQ 214 05R
CN201	87-099-018-010		CONN,16P	S605	87-A91-704-080		SW,TACT EVQ 214 05R
CN801	87-A60-110-010		CONN,4P V S2M-4W	S606	87-A91-704-080		SW,TACT EVQ 214 05R
CNA302	8A-CD9-629-010		CONN ASSY,6P MA-TU	S607	87-A91-704-080		SW,TACT EVQ 214 05R
L801	87-007-342-010		COIL,OSC 85K BIAS	S608	87-A91-704-080		SW,TACT EVQ 214 05R
SW801	8Z-CD9-609-010		SW,SL 1-6-2 PS62D01	S614	87-A91-704-080		SW,TACT EVQ 214 05R
				X601	87-030-273-010		VIB,XTAL 32.768K5PPM
				X602	87-030-376-080		VIB,CER CSA5.76MG200
FRONT C.B				HP C.B			
C601	87-010-313-080		CAP, CHIP 18P	CN204	87-A60-685-010		CONN,4P H WHT EH
C602	87-010-315-080		C-CAP,S 27P-50 CH	CN605	87-A60-113-010		CONN,2P H S2M-2WR
C603	87-010-319-080		C-CAP,S 56P-50 CH	CNA203	8A-CD9-628-010		CONN ASSY,3P MA-HP
C604	87-010-312-080		C-CAP,S 15P-50 CH	J251	87-A60-569-010		JACK,HTJ-035-18
C605	87-010-317-080		C-CAP,S 39P-50 CH	S609	87-A91-704-080		SW,TACT EVQ 214 05R
C607	87-A10-826-080		C-CAP,S 1-10 K B	S610	87-A91-704-080		SW,TACT EVQ 214 05R
C608	87-010-196-080		CHIP CAPACITOR,0.1-25	S611	87-A91-704-080		SW,TACT EVQ 214 05R
C611	87-012-368-080		C-CAP,S 0.1-50 F	S612	87-A91-704-080		SW,TACT EVQ 214 05R
C612	87-A10-189-040		CAP,E 220-10	S613	87-A91-704-080		SW,TACT EVQ 214 05R
C613	87-010-495-040		CAP,E 2.2-50 GAS				
C614	87-010-196-080		CHIP CAPACITOR,0.1-25	BATT1 C.B			
C615	87-010-493-040		CAP,E 0.47-50 GAS	C901	87-010-192-080		C-CAP,S 0.022-50 F
C616	87-010-494-040		CAP,E 1-50 GAS	C902	87-010-192-080		C-CAP,S 0.022-50 F
C617	87-010-178-080		CHIP CAP 1000P	C903	87-010-192-080		C-CAP,S 0.022-50 F
C618	87-010-560-040		CAP,E 10-50 GAS	C904	87-010-192-080		C-CAP,S 0.022-50 F
C620	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z	CNA901	8A-CD9-627-010		CONN ASSY,3P PWR
C627	87-A10-826-080		C-CAP,S 1-10 K B	APR901	87-A90-092-080		PROTECTOR,2.5A 491
C700	87-010-197-080		CAP, CHIP 0.01 DM	SP901	87-CD6-213-010		SPR-C,BATT (-)
C701	87-010-197-080		CAP, CHIP 0.01 DM	SP902	87-CD6-213-010		SPR-C,BATT (-)
C702	87-010-197-080		CAP, CHIP 0.01 DM	MOTOR C.B			
C703	87-010-197-080		CAP, CHIP 0.01 DM	M2	9X-262-576-910		MOTOR GEAR ASSY
C704	87-010-197-080		CAP, CHIP 0.01 DM	PIN3	91-564-722-110		CONNECTOR 6P
C705	87-010-197-080		CAP, CHIP 0.01 DM	SW1	91-572-085-120		LEAF SW
C706	87-010-197-080		CAP, CHIP 0.01 DM	BATT2 C.B			
C707	87-010-197-080		CAP, CHIP 0.01 DM	SP903	87-CD6-213-010		SPR-C,BATT (-)
C708	87-010-197-080		CAP, CHIP 0.01 DM	SP904	87-CD6-213-010		SPR-C,BATT (-)
C709	87-010-197-080		CAP, CHIP 0.01 DM				
C710	87-010-197-080		CAP, CHIP 0.01 DM				
C711	87-010-197-080		CAP, CHIP 0.01 DM				
CN601	87-099-033-010		16P 6216 H				
CN602	87-099-201-010		CONN,8P 6216 H				
CNA603	8A-CD9-624-010		CONN ASSY,4P TU-FR				
CNA604	8A-CH9-623-010		CONN ASSY,2P KEY				
L601	87-003-102-080		COIL, 10UH				
LCD601	8Z-CH4-635-010		LCD,HLC7365 ZCH-4				
LED601	88-CD6-630-010		LED,934ID RED				
LED602	88-CD6-630-010		LED,934ID RED				
LED603	88-CD6-630-010		LED,934ID RED				
LED604	88-CD6-630-010		LED,934ID RED				
LED606	88-CD6-630-010		LED,934ID RED				

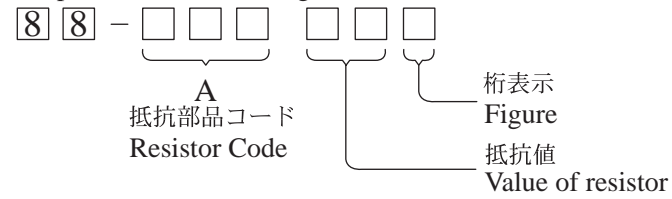
LCD DISPLAY  
LCD, 7365 ZCH-4

- 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



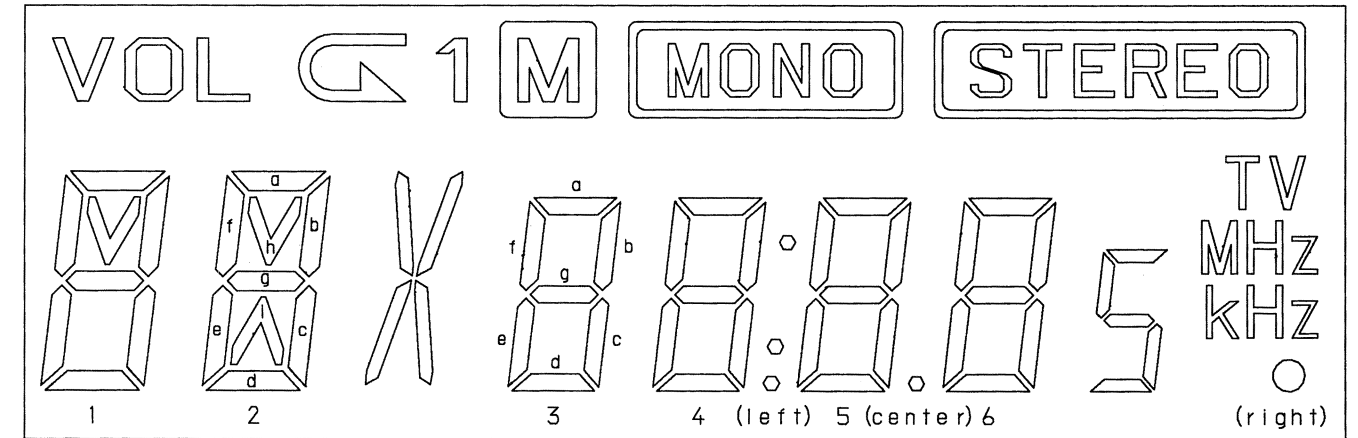
チップ抵抗  
Chip resistor

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

2SB1370E    DTC114TS    2SK302GR    2SA1162Y    2SA933RS    2SA933S  
 2SC2712    2SC1740S R    2SA1296  
 2SC2714    DTC124XS    2SA1318TU  
 DTC114TK    2SC1740 S  
 DTC114YK    2SC1815  
 DTC124XK    2SC2001  
 DTC144EK  
 DTC144TK



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)

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

MAIN C.B.

TO FRONT C.B.  
CN602

ICD ROOM SW

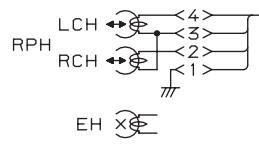
TO BATT C.B.  
CNA901

TO HP C.B.  
CNA203

TO MOTOR C.B.  
PINS

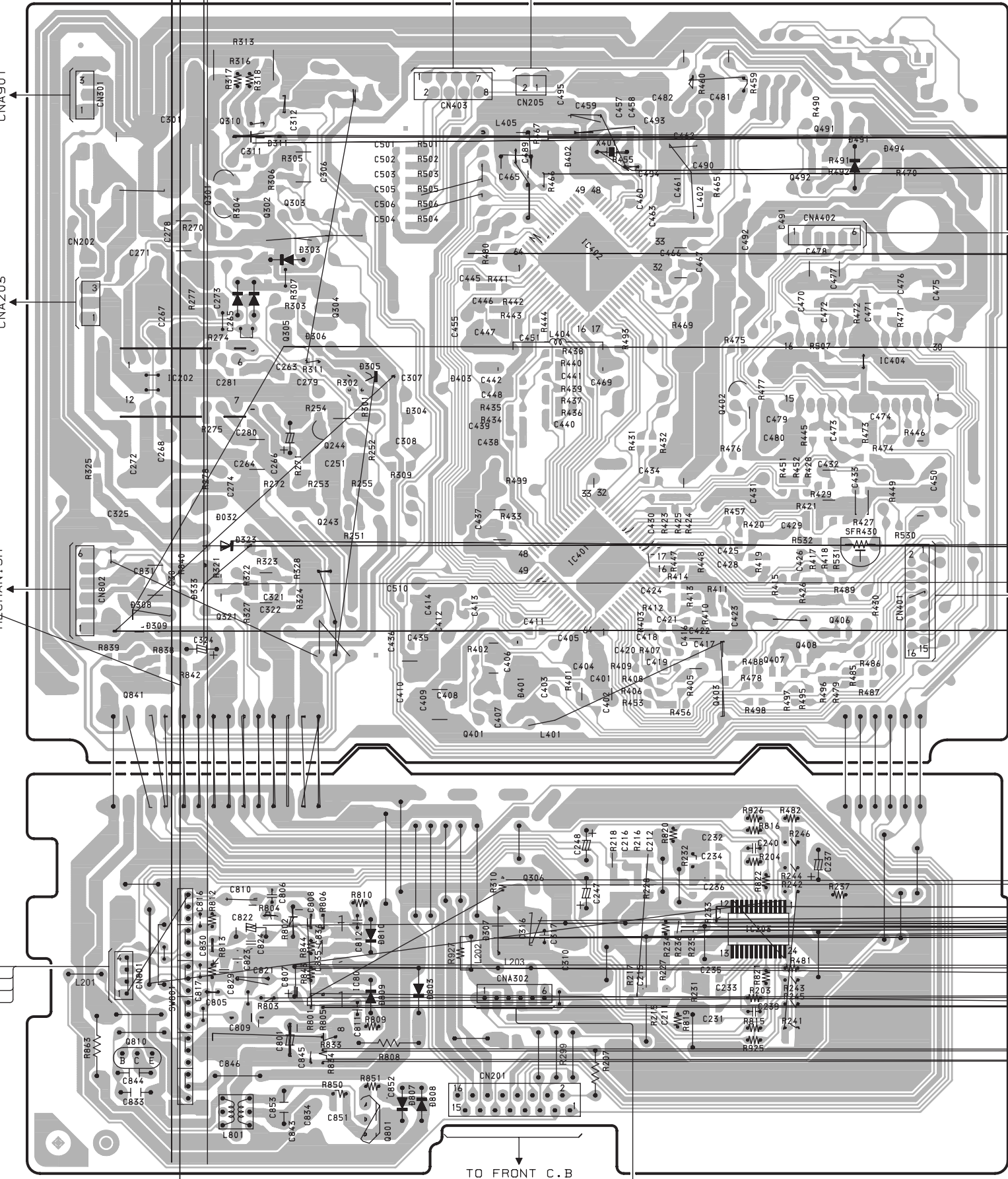
TO TAPE  
MECHANISM

OPTICAL  
PICK UP  
SF-P101NR



TO FRONT C.B.  
CN601

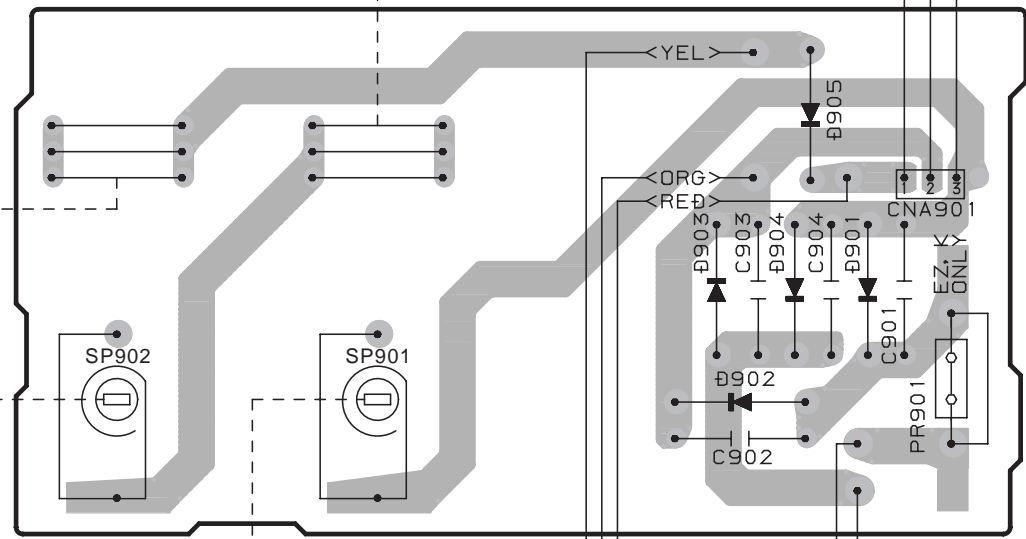
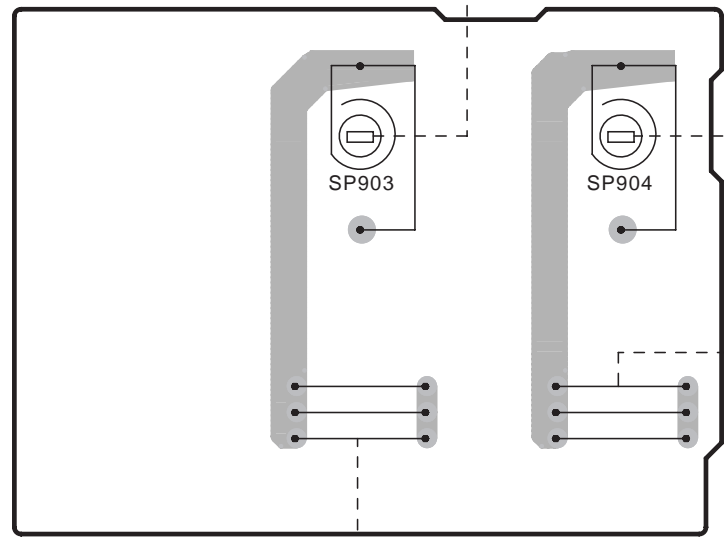
TO TU C.B.  
CN002





### BATT2 C.B

### BATT1 C.B



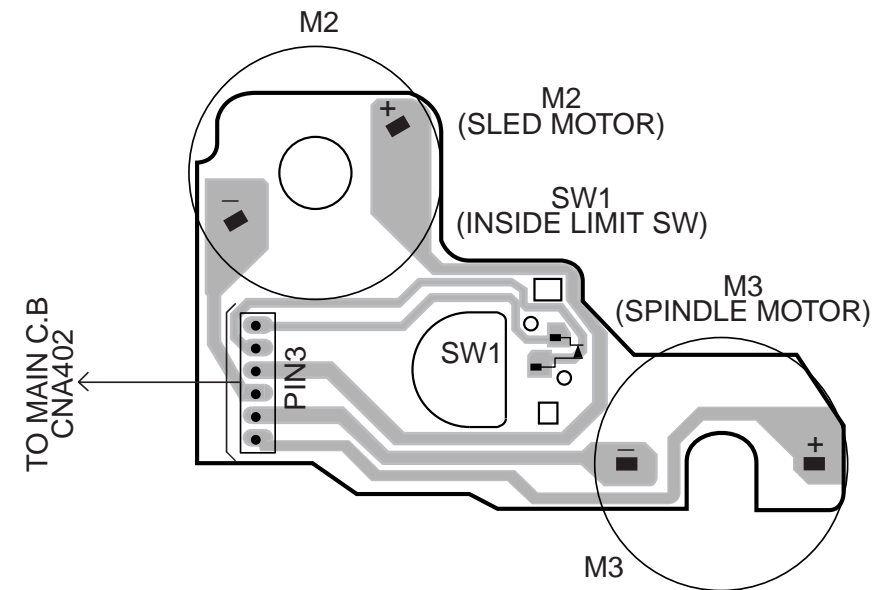
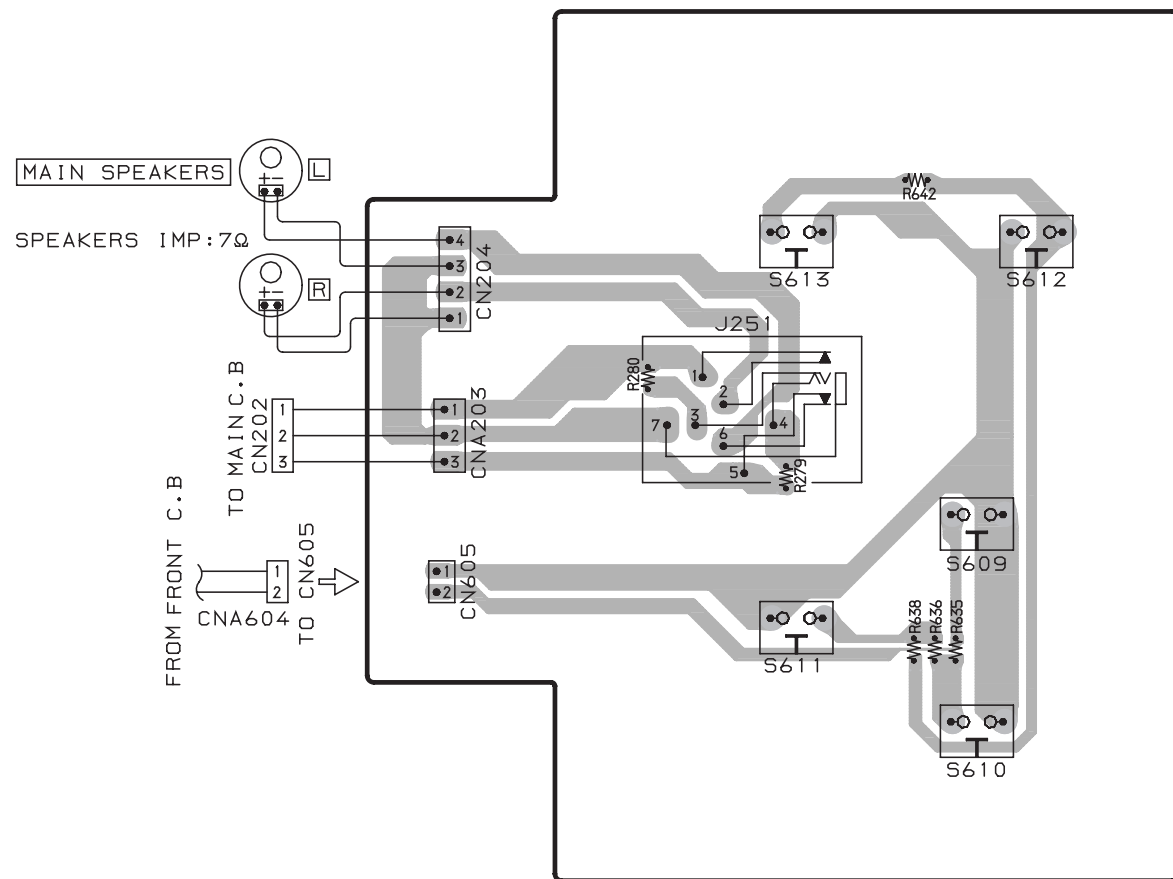
BATT  
R14 X8

J1  
AC JACK  
230V  
50Hz

TO MAIN C.B  
CN301  
1 2 3 CNA901

### H.P. C.B

### MOTOR C.B



S613  
VOL. UP  
S612  
VOL. DOWN

J251  
PHONES

S609  
CD

S611  
TAPE STBY

S610  
TUNER

TO MAIN C.B  
CNA402

FROM FRONT C.B

TO MAIN C.B  
CN202  
1 2  
TO CN605  
CNA604

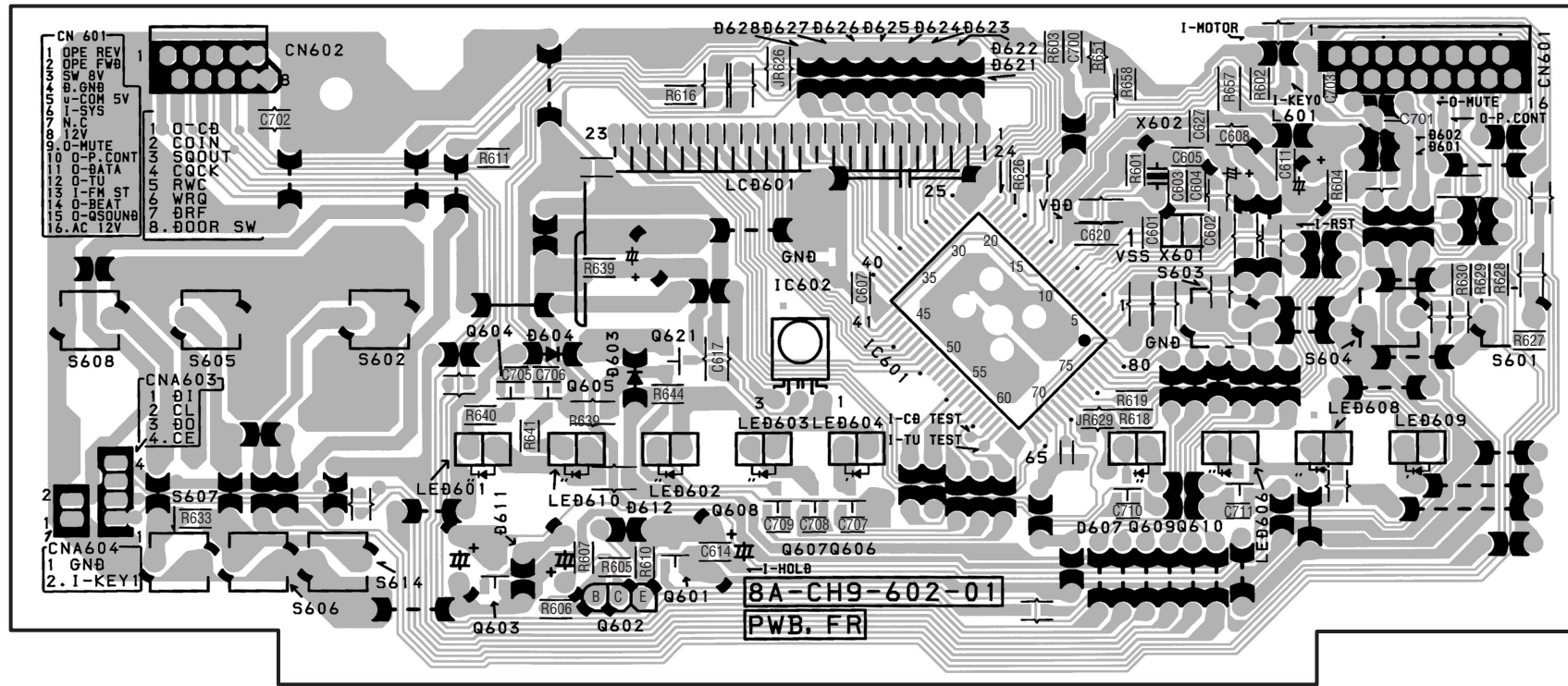




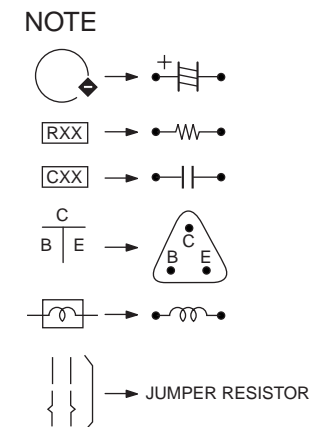
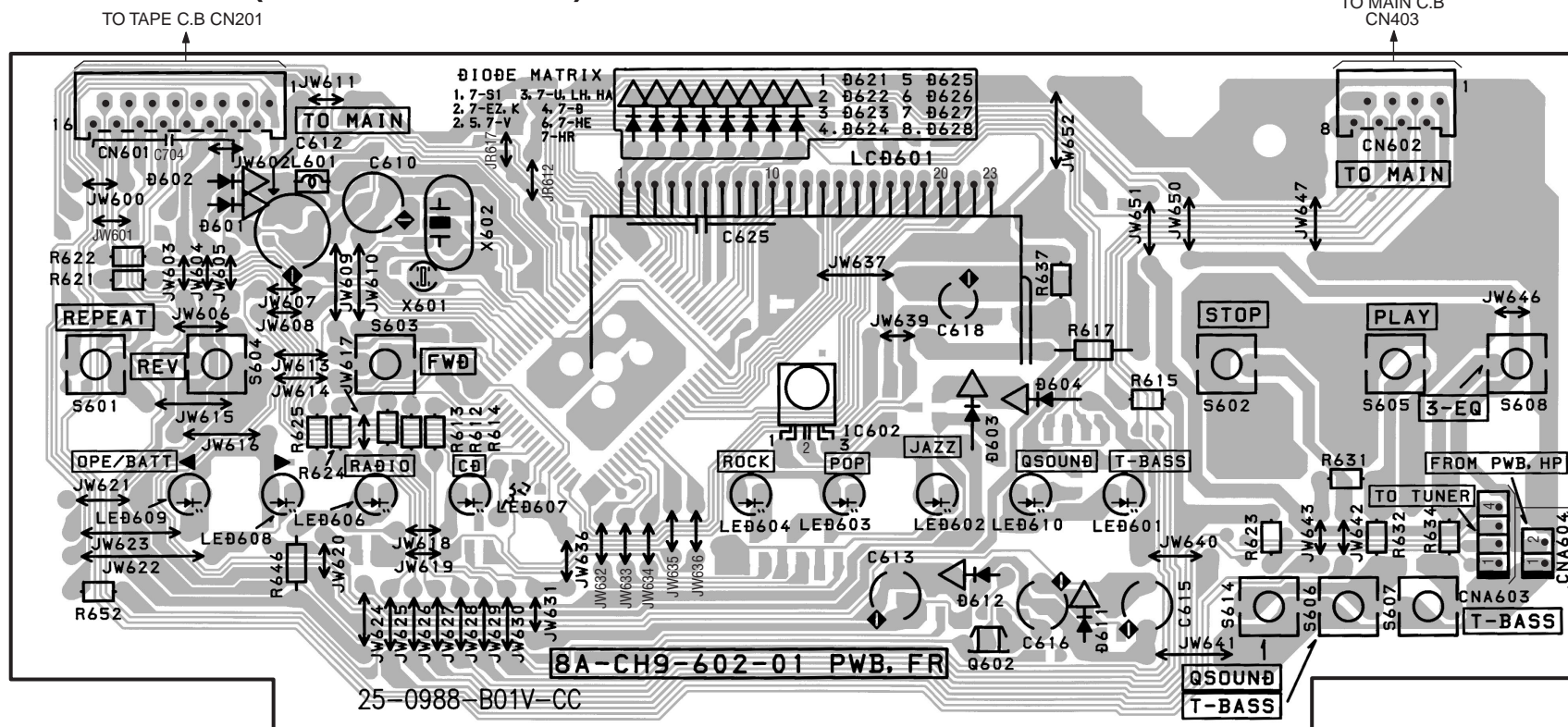


A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K

**FRONT C.B (CHIP PARTS)**

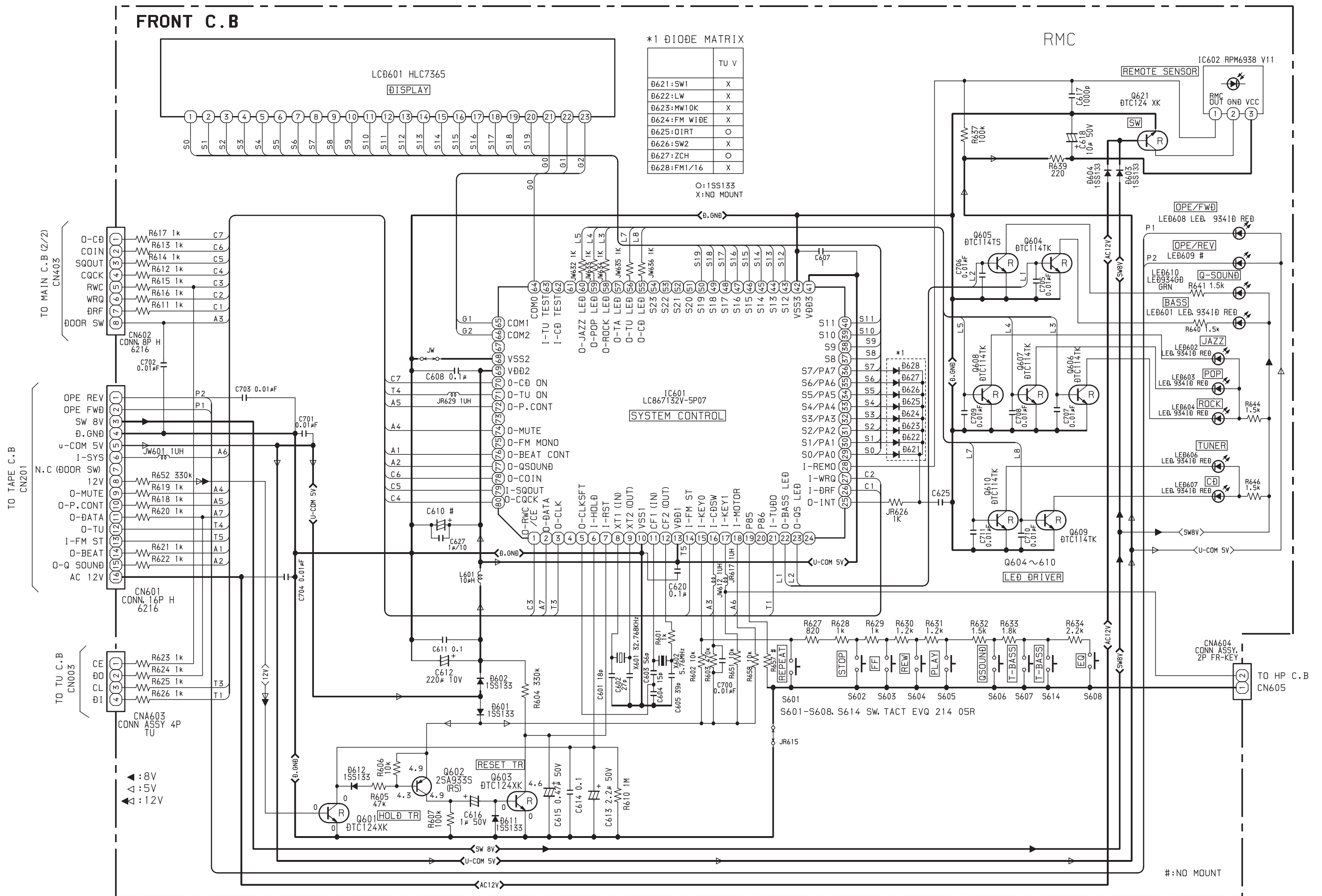


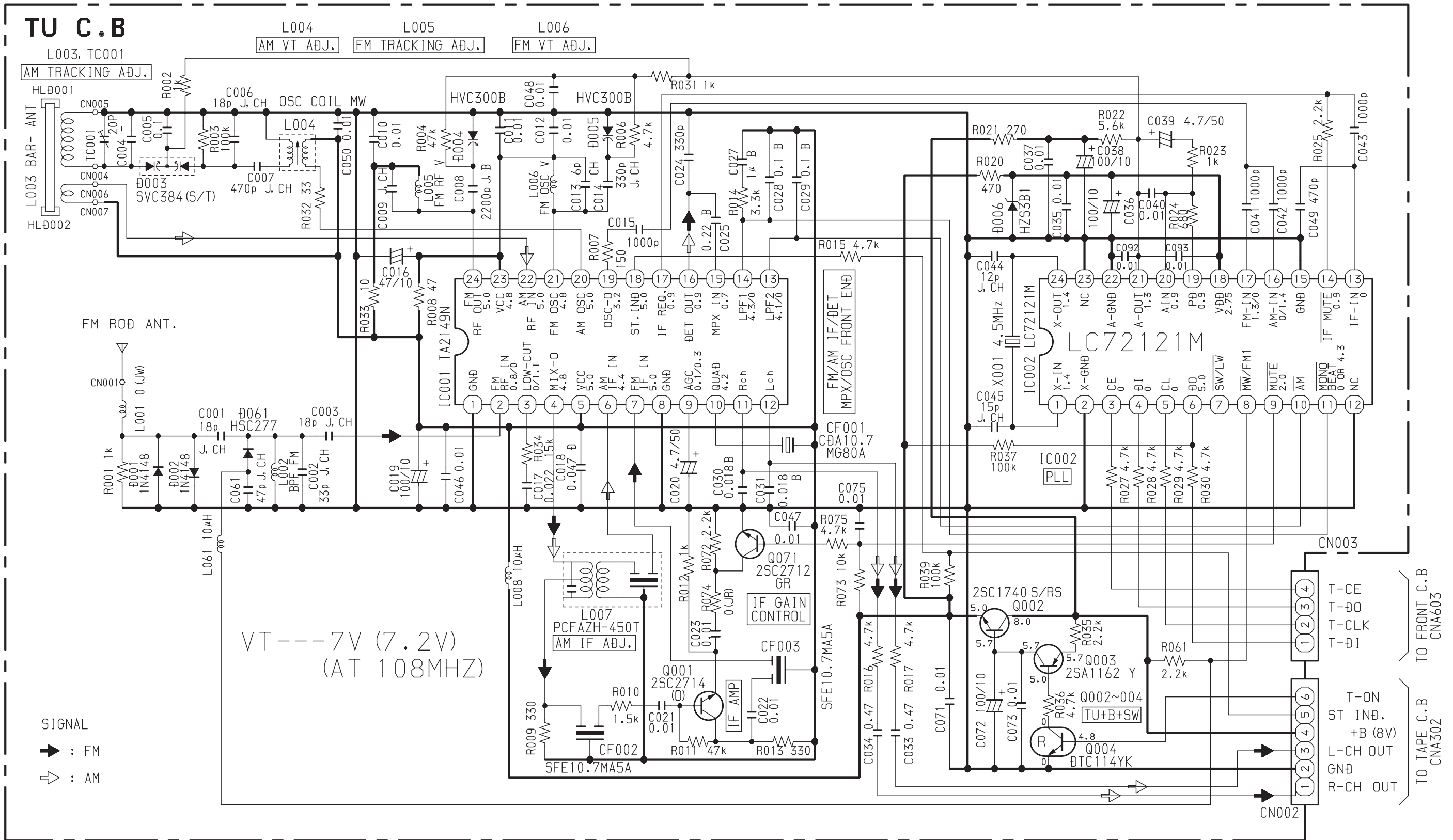
**FRONT C.B (INSERTED PARTS)**



S601	S604	S603	LED604	LED603	LED602	LED610	LED601	S602	S605	S608
REPEAT	REW	FF	ROCK	POP	JAZZ	Q-SOUND	BASS	STOP	PLAY	EQ
LED609	LED608	LED606	LED607	S614	S606	S607				
OPE/REV	OPE/FWD	TUNER	CD	T-BASS	Q SOUND	T-BASS				

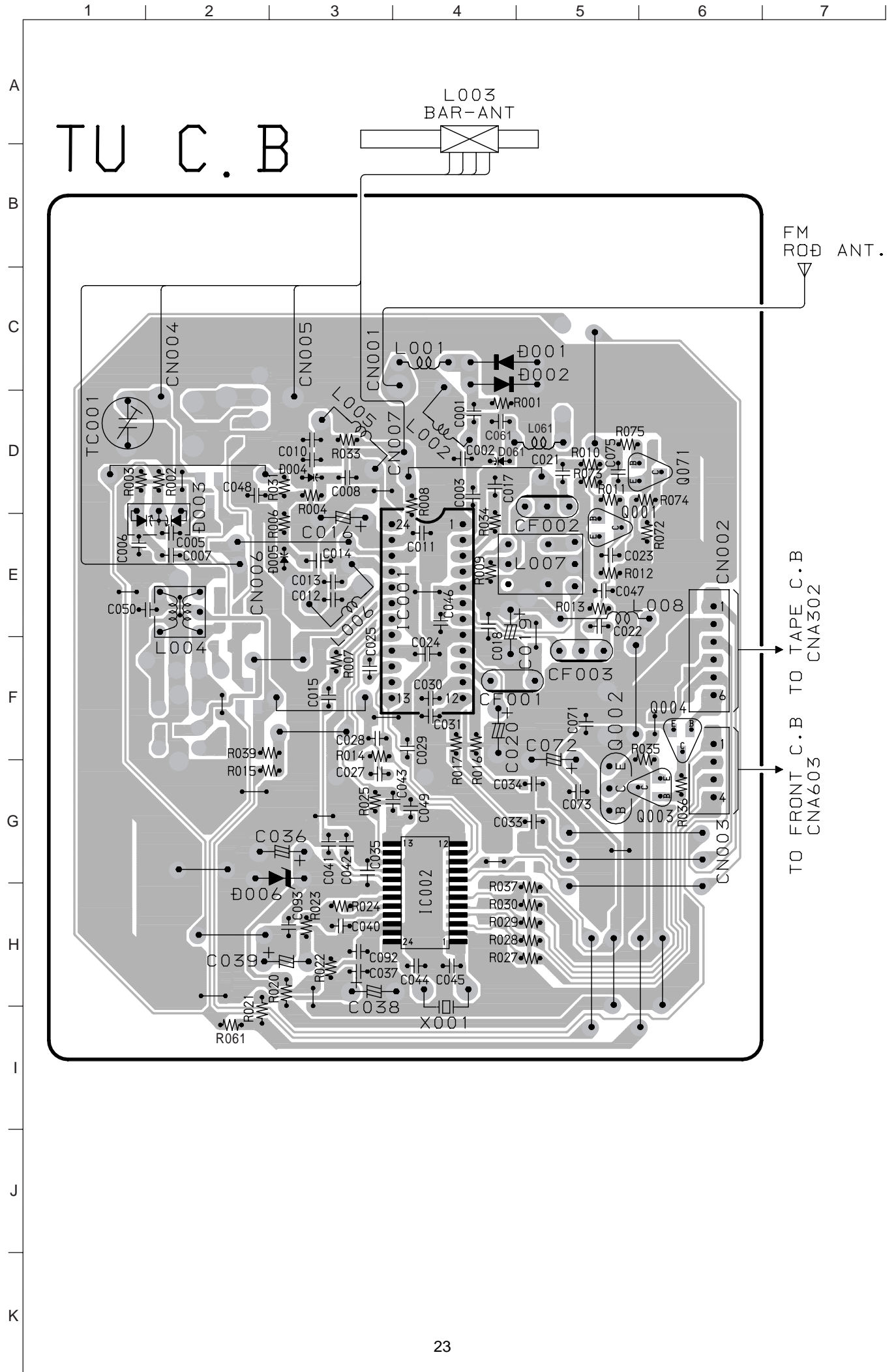
SCHEMATIC DIAGRAM-3 (FRONT)



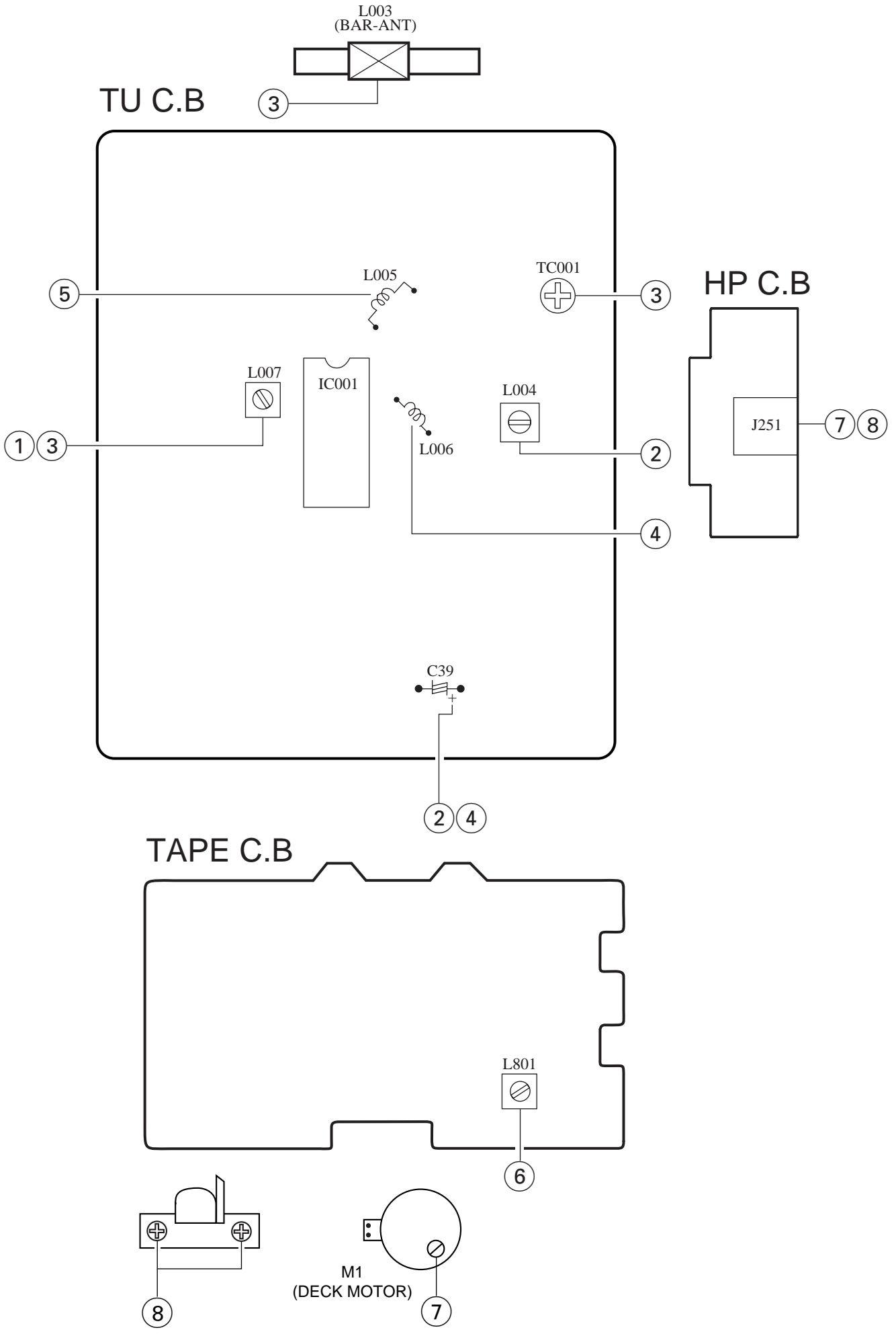




# WIRING-4 (TUNER)



ELECTRICAL ADJUSTMENT





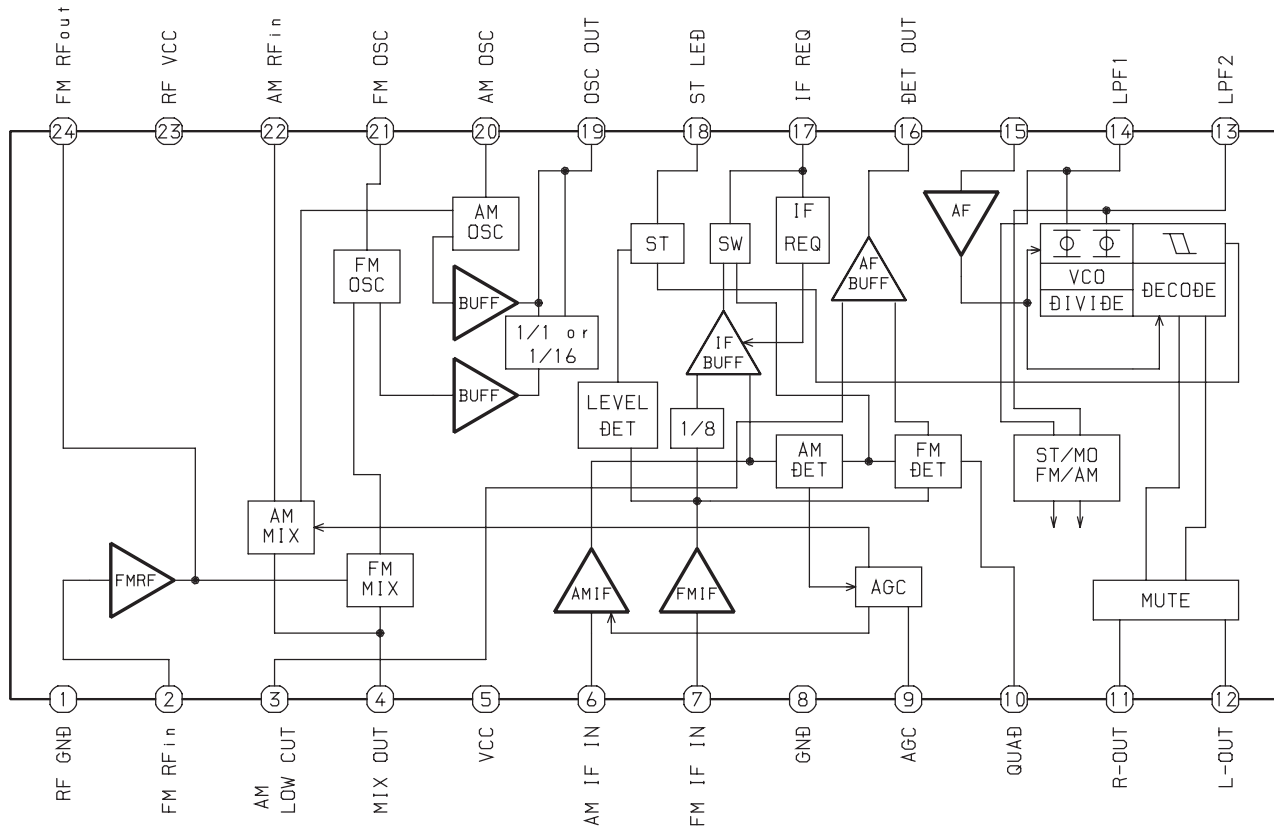
## < TUNER SECTION >

1. AM IF Adjustment  
L007 ..... 450kHz
  
2. AM VT Adjustment  
Settings: • Test point: C39⊕  
          • Adjustment location: L004  
Method: Set to AM 999kHz adjust L004 so that the test  
          point becomes 3.75V±50mV.
  
3. AM Tracking Adjustment  
L003 ..... 603kHz  
TC001, L007 ..... 1404kHz
  
4. FM VT Adjustment  
Settings: • Test point: C39⊕  
          • Adjustment location: L006  
Method: Set to FM 108MHz adjust L006 so that the test  
          point becomes 7.0V±50mV.
  
5. FM Tracking Adjustment  
L005 ..... 74MHz

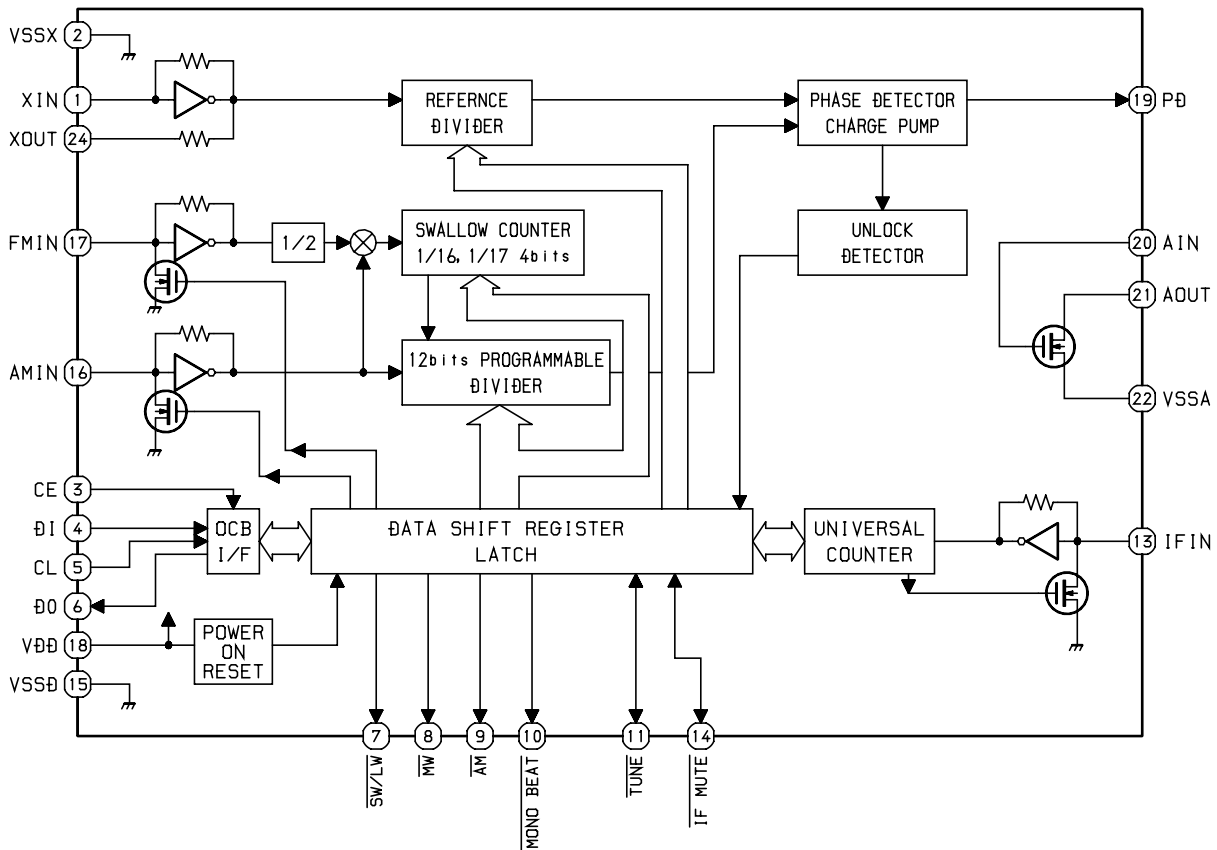
## < TAPE SECTION >

6. Bias frequency Adjustment  
L801 ..... 75Hz ±500Hz
  
7. 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.
  
8. 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.

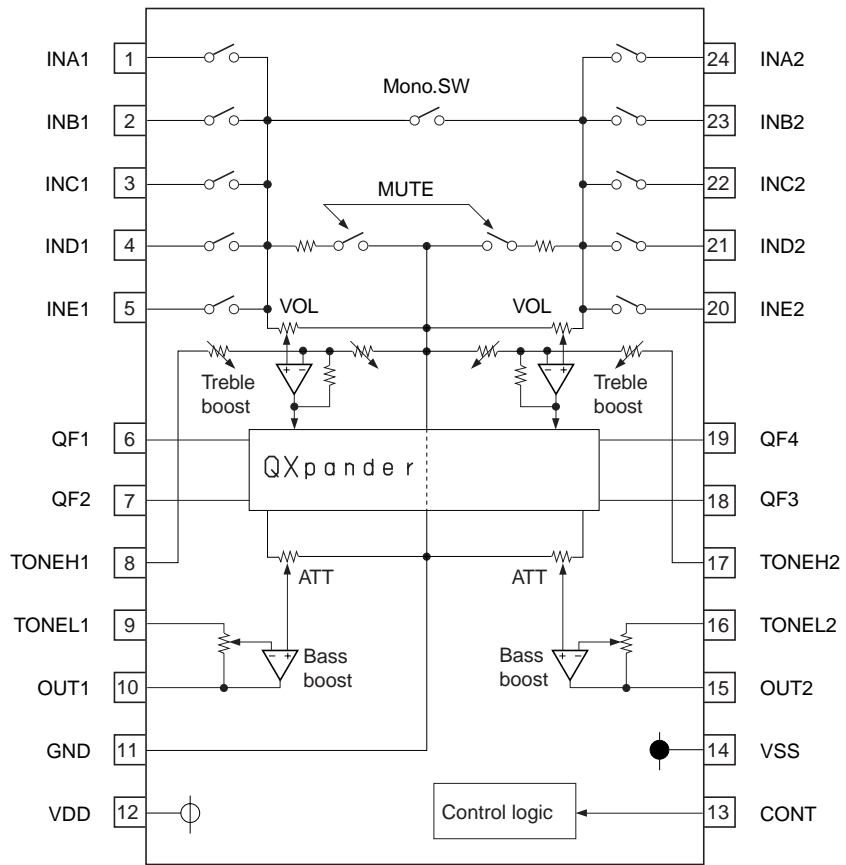
IC BLOCK DIAGRAM  
IC, TA2149N



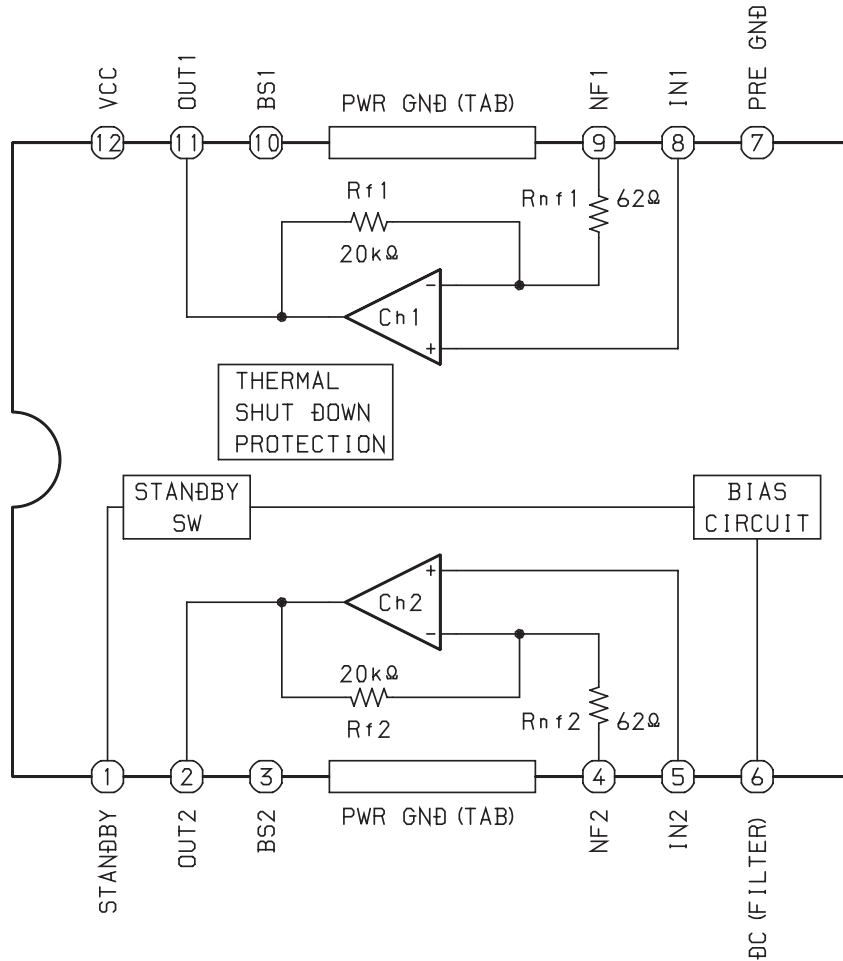
IC, LC72121M



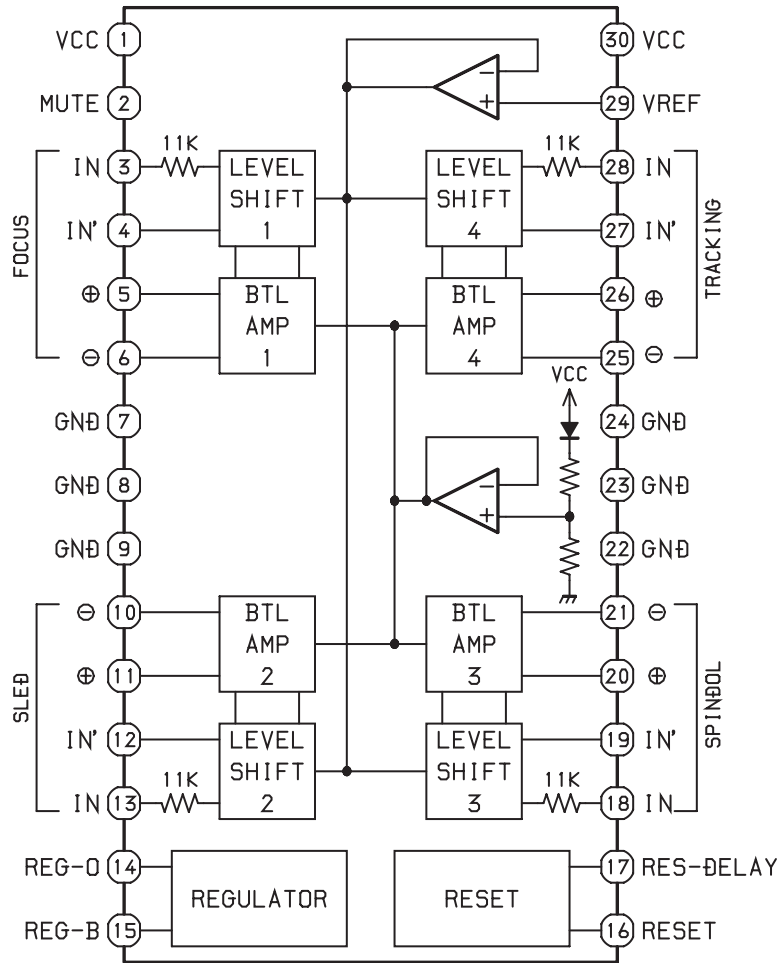
IC, M61509FP



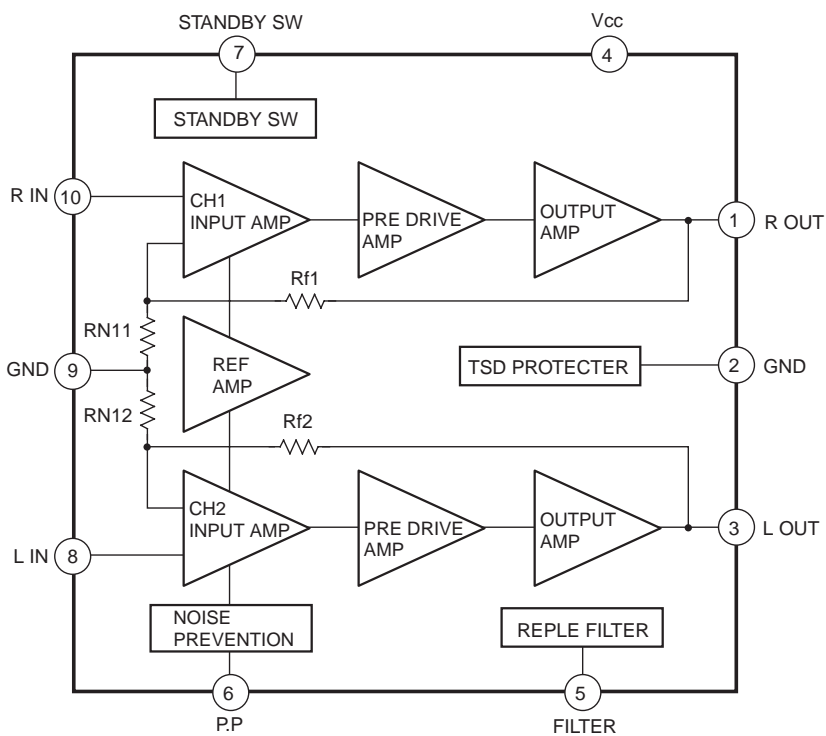
IC, LA4227



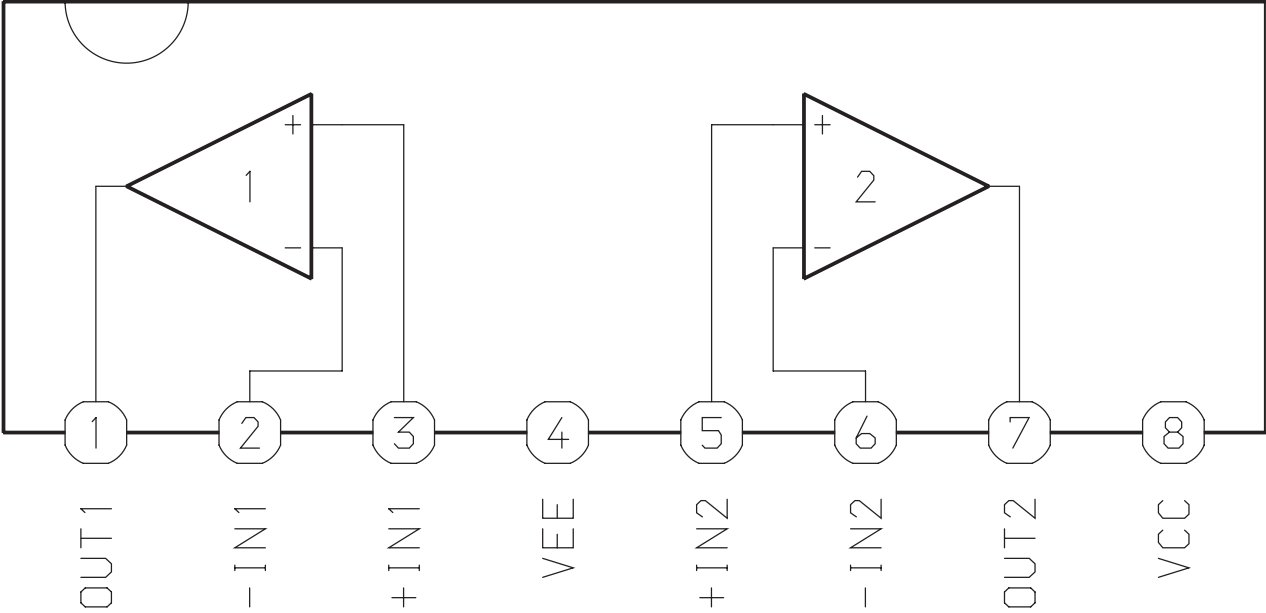
IC, LA6541D



IC, LA4600



IC, BA4560N



# IC DESCRIPTION

## IC, LA9241ML

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

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

## IC, LC78622ED

Pin No.	Pin Name	I/O	Description	
1	DEFI	I	Defect sense signal (DEF) input pin. (Connect to 0V when not used).	
2	TAI	I	For PLL.	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.
3	PDO	O		Phase comparator output pin to control external VCO.
4	VVSS	—		GND pin for built-in VCO. Be sure to connect to 0V.
5	ISET	I		Pin to which external resistor adjusting the PDO output current.
6	VVDD	—		Power supply pin for built-in VCO.
7	FR	I		Pin for VCO frequency range adjustment.
8	VSS	—		Digital system GND. Be sure to connect to 0V.
9	EFMO	O	For slice level control.	EFM signal output pin.
10	EFMIN	I		EFM signal input pin.
11	T2	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.	
12, 13	CLV+, CLK-	O	Disc motor control output. Three level output is possible using command.	
14	$\overline{V/P}$	O	Rough servo or phase control automatic selection monitoring output pin. Rough servo at H. Phase servo at L.	
15	HFL	I	Track detect signal input pin. Schmidt input.	
16	TES	I	Tracking error signal input pin. Schmidt input.	
17	TOFF	O	Tracking OFF output pin.	
18	TGL	O	Tracking gain selection output pin. Gain boost at L.	
19, 20	JP+, JP-	O	Track jump control signal output pin. Three level output is possible using command.	
21	PCK	O	EFM data playback clock monitoring pin 4.3218 MHz when phase is locked in.	
22	FSEQ	O	Sync signal detection output pin. H when the sync signal which is detected from EFM signal and the sync signal which is internally generated agree.	
23	VDD	—	Digital system power supply pin.	
24	SL+	O	Moves the sled to outer circumference.	
25	SL-	O	Moves the sled to inner circumference.	
26	—	—	Not connected.	
27	PUIN	I	CD pickup inner switch detection.	
28	RW	O	Read, wright signal.	
29	EMPH	O	De-emphasis monitor output pin. De-emphasis disc is being played back at H.	
30	C2F	O	C2 flag output pin.	
31	DOUT	O	DIGITAL OUT output pin. (EIAJ format).	
32, 33	T3, T4	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.	
34	N.C.	—	Not used. Set the pin to open.	
35	MUTEL	O	L-channel 1-bit DAC.	L-channel mute output pin.
36	LVDD	—		L-channel power supply pin.
37	LCHO	O		L-channel output pin.
38	LVSS	—		L-channel GND. Be sure to connect to 0V.
39	RVSS	—	R-channel 1-bit DAC.	R-channel GND. Be sure to connect to 0V.
40	RCHO	O		R-channel output pin.
41	RVDD	—		R-channel power supply pin.
42	MUTER	O		R-channel mute output pin.



Pin No.	Pin Name	I/O	Description
43	XVDD	—	Crystal oscillator power supply pin.
44	XOUT	O	Pin to which external 16.9344 MHz crystal oscillator is connected.
45	XIN	I	
46	XVSS	—	Crystal oscillator GND pin. Be sure to connect to 0V.
47	SBSY	O	Subcode block sync signal output pin.
48	EFLG	O	C1, C2, single and dual correction monitoring pin.
49	PW	O	Subcode P, Q, R, S, T, U and W output pin.
50	SFSY	O	Subcode frame sync signal output pin. Falls down when subcode enters standby.
51	SBCK	I	Subcode read clock input pin. Schmidt input. (Be sure to connected to 0V when not in use.)
52	FSX	O	Pin outputting the 7.35 kHz sync signal which is generated by dividing frequency of crystal oscillator.
53	WRQ	O	Subcode Q output standby output pin.
54	RWC	I	Read/write control input pin. Schmidt input.
55	SQOUT	O	Subcode Q output pin.
56	COIN	I	Command input pin from microprocessor.
57	$\overline{\text{CQCK}}$	I	Command input read clock or subcode read input clock from SQOUT pin
58	RES	I	LC78622 reset input pin. Set this pin to L once when the main power is turned on.
59	T11	O	Test signal output pin. Use this pin as open (normally L output).
60	16M	O	16.9344 MHz output pin.
61	4.2M	O	4.2336 MHz output pin.
62	T5	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.
63	$\overline{\text{CS}}$	I	Chip select signal input pin with built-in pull-down resistor. Be sure to connect to 0V while it is not controlling.
64	T1	I	Test signal input pin without built-in pull-down resistor. Be sure to connect to 0V.

## IC, LC867132V-5P07

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

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

# MECHANICAL PARTS LIST 1/1

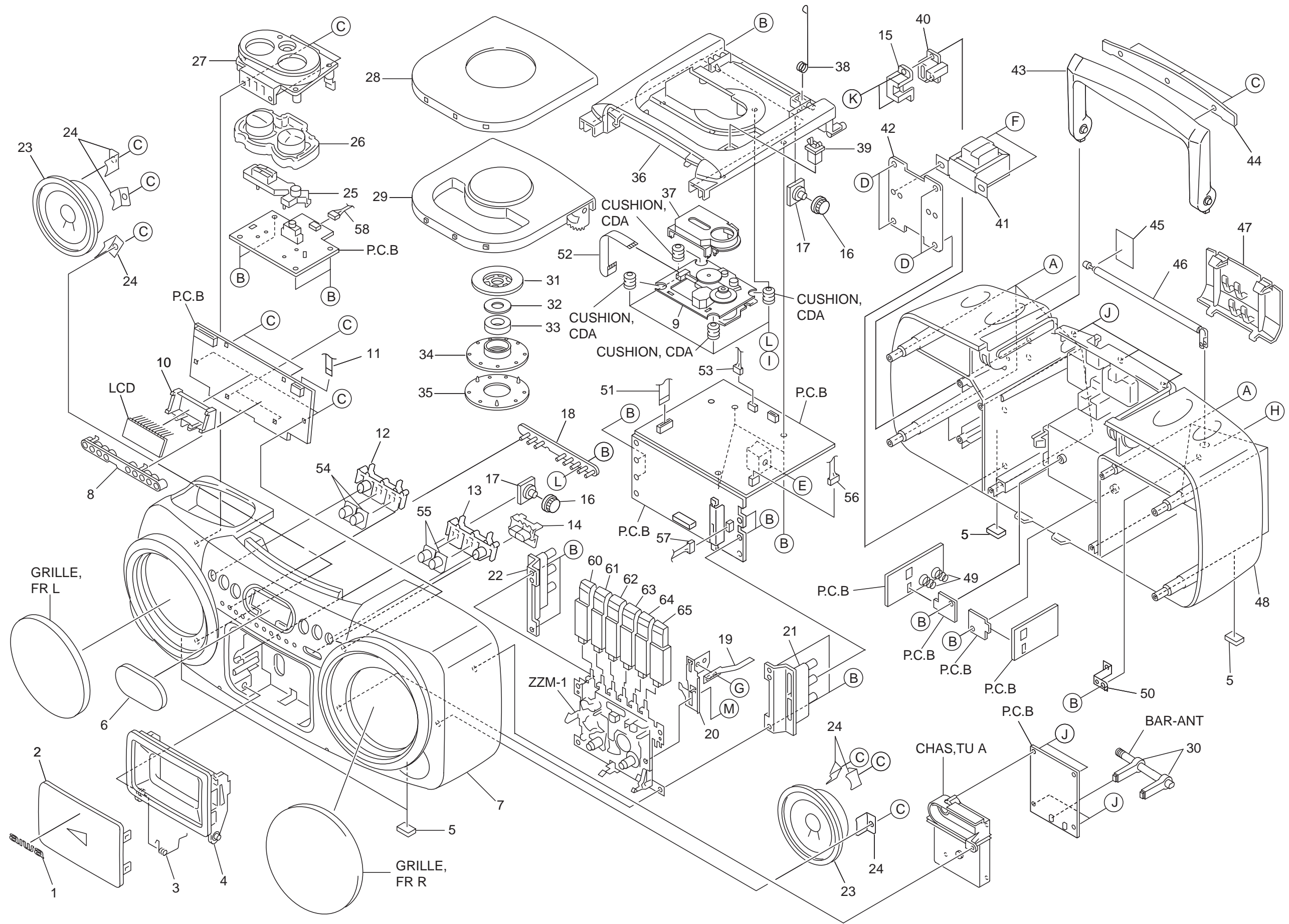
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。  
 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF.NO	PART.NO.	KANRI NO.	DESCRIPTION	REF.NO	PART.NO.	KANRI NO.	DESCRIPTION
1	87-B00-010-010		BADGE,AIWA 30.5-5.2 S 2.5L	△ 41	8A-CD8-603-010		PT,E 2.5W
2	8A-CD9-009-010		WINDOW,CASS	42	8A-CH4-209-010		HLDL,PT
3	8A-CD9-232-010		SPR-T,CASS	43	8A-CD9-012-010		HANDL,GRIP
4	8A-CD9-008-010		BOX,CASS	44	8A-CD9-011-010		HANDL,ARM
5	86-CT4-218-010		CUSHION,FOOT/PORON	45	8A-CH4-036-010		PLATE,AC
6	8A-CHK-007-010		WINDOW,LCD RC	46	8Z-CH4-640-010		ANT,ROD
7	8A-CHK-002-010		CABI,FR A2K ASSY	47	8A-CD9-010-010		LID,BATT
8	8A-CD9-202-010		GUIDE,LED	48	8A-CH9-002-010		CABI,REAR A2
9	M8-ZZK-E90-070		DALIT3C	49	87-CD6-213-010		SPR-C,BATT (-)
10	8A-CD9-201-010		HLDL,DISPLAY	50	8A-CD9-221-010		HLDL,ANT
11	8A-CD9-622-010		FF-CABLE, 8P CD-FR	51	8A-CD9-620-010		FF-CABLE, 16P FR-MAIN
12	8A-CD9-020-010		BTN,REPEAT	52	8A-CD9-621-010		FF-CABLE, 16P CD-RF
13	8A-CD9-021-010		BTN,EQ	53	8A-CD9-626-010		CONN ASSY,2P DOOR
14	8A-CD9-028-010		BTN,Q/BASS	54	8A-CD9-019-010		CAP, CD B
15	8Z-CD5-634-010		COVER,AC SOCKET	55	8A-CD9-018-010		CAP, CD A
16	84-CD5-215-010		GEAR	56	8A-CD9-631-010		CONN ASSY,4P TP-ME
17	84-CD5-216-010		BRACKET	57	8A-CD9-630-010		CONN ASSY,4P RPH
18	8A-CD9-022-010		LENS,LED	58	8A-CD9-633-010		CONN ASSY,4P SP
19	8A-CD9-225-010		SPR-P,REC ZZM1	60	8A-CD9-096-010		KEY,PAUSE ZZM1
20	8A-CD9-224-010		HLDL,REC ZZM1	61	8A-CD9-095-010		KEY,STOP ZZM1
21	8A-CD9-212-010		HLDL,PWB R	62	8A-CD9-094-010		KEY,FF ZZM1
22	8A-CD9-211-010		HLDL,PWB L	63	8A-CD9-093-010		KEY,REW ZZM1
23	8A-CH4-682-010		SPKR,10- 7OHM	64	8A-CD9-092-010		KEY,PLAY ZZM1
24	8A-CD9-222-010		HLDL,SPEAKER	65	8A-CD9-091-010		KEY,REC ZZM1
25	8A-CD9-203-010		GUIDE,VOL	A	87-B10-242-010		UT2+3-30 W/O CR
26	8A-CD9-014-010		BTN,VOL	B	87-741-096-410		UT2+3-10
27	8A-CH9-006-010		PANEL,VOL CH	C	87-B10-239-010		QT2+3-8 W/O CR
28	8A-CD9-007-010		WINDOW,CD	D	87-661-097-410		TAPPING SCREW, VFT1+3-12
29	8A-CH9-012-010		BOX,CD A	E	87-751-094-410		VT2+3-6 W10SLOT
30	88-CD6-661-010		HLDL,BAR ANT.	F	87-067-566-010		TAPPING SCREW, VF1T+3-6
31	8Z-CH4-225-110		HLDL,CHUCK A(S)	G	87-721-096-410		QT2+3-10 GLD
32	84-CD5-217-010		PLATE,MAGNET	H	87-255-096-410		U+3-10 NI
33	87-036-368-010		MAGNET	I	87-342-074-010		UT2+2.6-8
34	8Z-CH4-211-010		BASE,CHUCK	J	87-B10-269-010		UT2+3-12 W/O CR
35	8Z-CH4-212-010		RING,CHUCK	K	87-352-075-210		VT2+2.6-10
36	8A-CD9-005-010		CHAS,CD A	L	87-WA5-253-010		W,3.3-10-0.8
37	8Z-CDB-169-010		PANEL,CD SANYO	M	8A-CDA-222-010		S-SCREW,CASS+2.6-4
38	8A-CD9-231-010		SPR-T,CD				
39	87-036-389-010		SW,PUSH LOCK				
△ 40	87-A60-178-010		JACK,AC E W/SW				

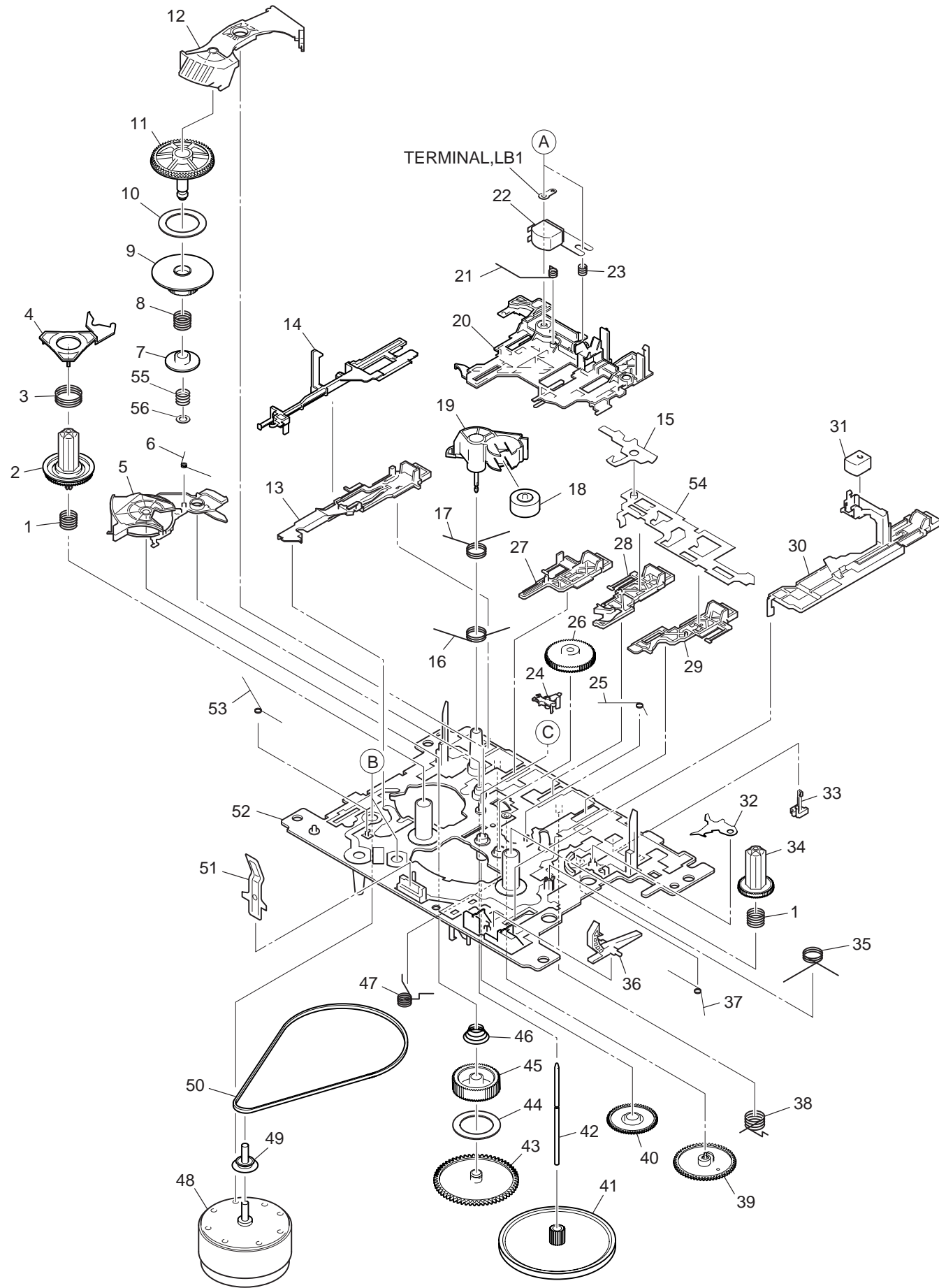
Note: No.59 is omitted.

## 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



TAPE MECHANISM EXPLODED VIEW 1/1

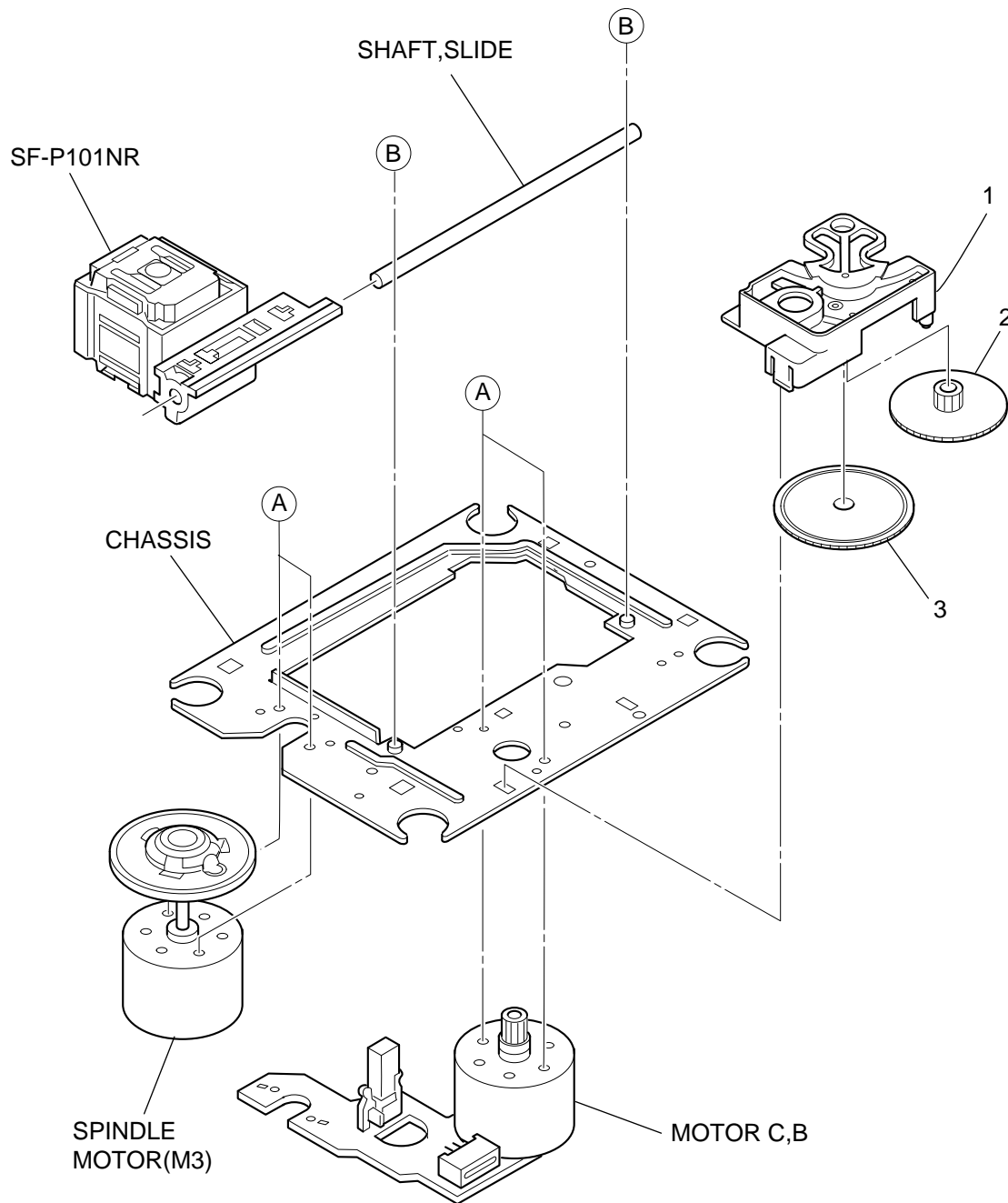


TAPE MECHANISM PARTS LIST 1/1

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REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	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-ZM3-228-110		FLY-WHL, M3
12	8Z-ZM1-237-110		LEVER, FF/REW 2	42	8Z-ZM1-267-110		SHAFT, CAPSTAN 2
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-A91-830-010		HEAD, RP-7442	52	8Z-ZM1-201-610		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	56	8Z-ZM1-275-010		W-L, 1.47-4-0.25
27	8Z-ZM1-208-010		LEVER, STOP	A	84-ZM2-242-010		S-SCREW, AZ1-2-6.4
28	8Z-ZM1-207-010		LEVER, FF	B	8Z-ZM1-270-110		V+2.6 ZZM-1
29	8Z-ZM1-206-010		LEVER, REW	C	87-B10-301-010		W-L, 1.63-3.2-0.5 SLIT
30	8Z-ZM1-211-210		LEVER, REC 2				

# CD MECHANISM EXPLODED VIEW 1/1



## CD MECHANISM PARTS LIST 1/1

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

**アイワ株式会社** 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)  
**AIWA CO.,LTD.** 2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110-8710, JAPAN TEL:03 (3827) 3111