

SERVICE MANUAL

COMPACT DISC CARRY
COMPONENT SYSTEM

BASIC TAPE MECHANISM : ZZM-2 YPR3NF
BASIC CD MECHANISM : DA11T3C

This Service Manual is the "Revision Publishing" and replaces "Simple Manual"
(S/M Code No. 09-003-339-4T3).

SPECIFICATIONS

Tuner section

Frequency range, antenna — FM 87.5 - 108.0 MHz Rod antenna,
MW 530 - 1,605 kHz Ferrite bar antenna, LW. 150 - 285 kHz Ferrite bar
antenna

Deck section

Track format — 4 tracks, 2 channels / Frequency range — Normal tape:
50 - 12,000 Hz (EIAJ) / Recording system — AC bias / Erasing system
— Magnet erase / Heads — Deck 1 Recording/playback head (1),
Erasure head (1); Deck 2: Playback head (1)

CD player section

Disc — Compact disc / Scanning method — Non-contact optical scanner
(semiconductor laser) / Rotation speed — Approx. 500 - 200 rpm/CLV /
Error correction — Cross interleave, Reed, Solomon code / Number of
channels — 2 channels / D/A conversion — 1 bit DAC

General

Power requirements — DC 12 V using eight size D (R20) batteries, AC
230 V, 50 Hz / Dimensions (W × H × D) — 260 × 247 × 260 mm / Weight
— 3.3 kg (excluding batteries)

Power output — 5 W + 5 W (DIN MUSIC POWER), 4.5 W + 4.5 W (EIAJ
3.2 ohms, THD 10 %), 3.3 W + 3.3 W (DIN 1% Rated Power) / Power
consumption — 27 W

- 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".

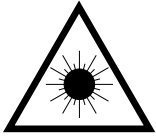
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CT9-906-010		IB,EZ(9L)FM
2	8Z-CDK-962-010		RC UNIT,RC-ZAT02(VS)
△ 3	87-A80-036-010		AC CORD SET ASSY,E W/FLTR VOL

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

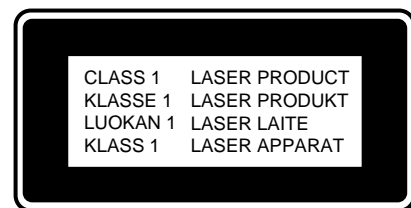
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.

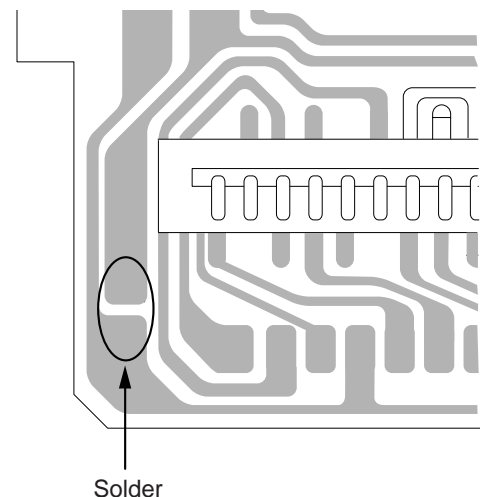


Precaution to replace Optical block (SF-P101NR)

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				C25	87-010-188-080		CAP,CHIP 6800P
	87-A20-955-010	IC,LA1828		C26	87-016-669-080		C-CAP,S 0.1-25 K B
	87-A21-090-010	IC,LA4600		C27	87-016-669-080		C-CAP,S 0.1-25 K B
	87-A21-520-040	C-IC,M61509FP		C28	87-010-992-080		C-CAP,S 0.047-25 B
	87-020-828-010	IC,BA3416BL		C29	87-010-992-080		C-CAP,S 0.047-25 B
	87-001-440-010	IC,BA15218N		C30	87-010-248-080		CAP, ELECT 220-10V
	87-A20-446-010	C-IC,LA9241ML		C31	87-010-379-080		CAP, ELECT 22-16V
	87-A20-459-010	C-IC,LC78622ED		C32	87-010-197-080		CAP, CHIP 0.01 DM
	87-A21-093-010	IC,LA6541D		C33	87-010-197-080		CAP, CHIP 0.01 DM
	87-070-416-010	IC,NJU7201 L55		C34	87-010-197-080		CAP, CHIP 0.01 DM
	8A-CH4-661-010	C-IC,LC867132V-5P05		C35	87-010-197-080		CAP, CHIP 0.01 DM
	87-A20-914-010	IC,SPS-442-1-F		C36	87-010-263-080		CAP, ELECT 100-10V
TRANSISTOR				C37	87-010-197-080		CAP, CHIP 0.01 DM
	89-327-143-080	TR,2SC2714 (0.1W)		C38	87-010-178-080		CHIP CAP 1000P
	87-026-447-080	TR,2SC1740S R		C41	87-010-318-080		C-CAP,S 47P-50 CH
	87-026-463-080	TR,2SA933S (0.3W)		C44	87-010-302-080		C-CAP,S 270P-50CH
	87-026-213-080	CHIP-TR,DTC114YK		C51	87-010-197-080		CAP, CHIP 0.01 DM
	89-320-011-080	TR,2SC2001 (15W)		C211	87-010-805-080		CHIP.CAP,S 1U-16V(Z)F
	87-026-462-080	TR,2SC1740 S(RS 0.3W)		C212	87-010-805-080		CHIP.CAP,S 1U-16V(Z)F
	87-026-291-080	TR,DTC124XS		C215	87-016-460-080		C-CAP,S 0.22-16 B
	89-109-332-380	TR,2SA933RS		C216	87-016-460-080		C-CAP,S 0.22-16 B
	89-113-187-080	TR,2SA1318TU		C218	87-012-358-080		C-CAP,S 0.47-10 F Z
	89-112-965-080	TR,2SA1296 (0.75W)		C231	87-015-632-080		C-CAP,0.015-50 B
	87-A30-226-010	TR,2SB1655E		C232	87-015-632-080		C-CAP,0.015-50 B
	89-318-154-080	TR,2SC1815 (0.4W)		C233	87-A10-201-080		C-CAP,S0.33-16 KB
	87-026-291-010	TR,DTC124XS		C234	87-A10-201-080		C-CAP,S0.33-16 KB
	87-026-463-010	TR,2SA933S,RS		C235	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
	87-026-464-010	TR,DTC114TS		C236	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
	87-026-610-080	TR,KTC3198GR		C237	87-010-408-080		CAP, ELECT 47-50V
	89-322-405-080	TR,2SC2240GR		C238	87-010-263-080		CAP, ELECT 100-10V
DIODE				C239	87-010-197-080		CAP, CHIP 0.01 DM
	87-020-465-080	DIODE,1SS133 (110MA)		C240	87-010-197-080		CAP, CHIP 0.01 DM
	87-A40-128-080	C-VARI-CAP,HVU202A		C247	87-010-401-080		CAP, ELECT 1-50V
	87-A40-466-080	ZENER,MTZJ2.7A		C248	87-010-401-080		CAP, ELECT 1-50V
	87-070-345-080	DIODE,IN4148		C251	87-010-401-080		CAP, ELECT 1-50V
	87-A40-648-080	ZENER,MTZJ8.2A		C261	87-010-402-080		CAP, ELECT 2.2-50V
	87-A40-234-080	ZENER,MTZJ5.6A		C262	87-010-402-080		CAP, ELECT 2.2-50V
	87-017-139-010	ZENER,HZS15-2		C263	87-010-178-080		CHIP CAP 1000P
	87-027-607-080	ZENER,HZ7B3L		C264	87-010-178-080		CHIP CAP 1000P
	84-RM1-695-010	DIODE,IN4148		C265	87-010-404-080		CAP, ELECT 4.7-50V
	87-A40-465-010	DIODE,FR202		C266	87-010-545-080		CAP, ELECT 0.22-50V
MAIN C.B				C267	87-010-545-080		CAP, ELECT 0.22-50V
C1	87-010-314-080	C-CAP,S 22P-50V		C271	87-010-237-080		CAP, ELECT 1000-16V
C2	87-010-316-080	C-CAP,S 33P-50 CH		C272	87-010-237-080		CAP, ELECT 1000-16V
C3	87-010-314-080	C-CAP,S 22P-50V		C277	87-010-404-080		CAP, ELECT 4.7-50V
C5	87-010-378-080	CAP, ELECT 10-16V		C278	87-010-112-080		CAP, ELECT 100-16V
C7	87-012-155-080	C-CAP 180P-50CH		C279	87-010-112-080		CAP, ELECT 100-16V
C8	87-010-182-080	C-CAP,S 2200P-50 B		C280	87-010-178-080		CHIP CAP 1000P
C9	87-010-311-080	CAP 12P		C281	87-010-178-080		CHIP CAP 1000P
C10	87-010-197-080	CAP, CHIP 0.01 DM		C285	87-010-178-080		CHIP CAP 1000P
C12	87-010-314-080	C-CAP,S 22P-50V		C287	87-010-178-080		CHIP CAP 1000P
C13	87-010-321-080	CHIP CAPACITOR,82P(J)		C288	87-010-178-080		CHIP CAP 1000P
C14	87-010-148-080	C-CAP,S 4P-50 C CH GRM		C291	87-010-404-080		CAP, ELECT 4.7-50V
C15	87-016-669-080	C-CAP,S 0.1-25 K B		C293	87-010-404-080		CAP, ELECT 4.7-50V
C16	87-010-178-080	CHIP CAP 1000P		C301	87-012-157-080		C-CAP,S 330P-50 CH
C17	87-016-669-080	C-CAP,S 0.1-25 K B		C302	87-012-157-080		C-CAP,S 330P-50 CH
C18	87-010-198-080	CAP, CHIP 0.022		C303	87-010-177-080		C-CAP,S 820P-50 SL
C19	87-016-669-080	C-CAP,S 0.1-25 K B		C304	87-010-177-080		C-CAP,S 820P-50 SL
C20	87-010-400-080	CAP, ELECT 0.47-50V		C305	87-010-374-080		CAP, ELECT 47-10V
C21	87-010-403-080	CAP, ELECT 3.3-50V		C306	87-010-374-080		CAP, ELECT 47-10V
C22	87-010-197-080	CAP, CHIP 0.01 DM		C307	87-010-382-080		CAP, ELECT 22-25V
C24	87-010-188-080	CAP,CHIP 6800P		C308	87-010-405-080		CAP, ELECT 10-50V
				C309	87-010-545-080		CAP, ELECT 0.22-50V
				C310	87-010-545-080		CAP, ELECT 0.22-50V
				C311	87-010-248-080		CAP, ELECT 220-10V
				C312	87-010-374-080		CAP, ELECT 47-10V
				C313	87-015-828-080		C-CAP,0.033 F
				C314	87-015-828-080		C-CAP,0.033 F
				C315	87-010-401-080		CAP, ELECT 1-50V
				C316	87-010-401-080		CAP, ELECT 1-50V

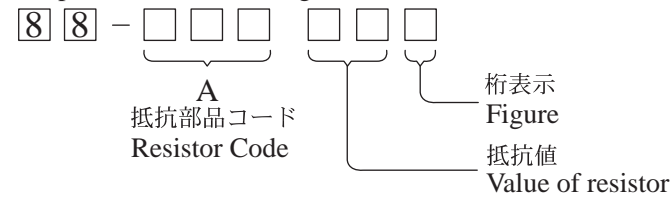
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C317	87-010-382-080		CAP, ELECT 22-25V	C457	87-010-312-080		C-CAP,S 15P-50 CH
C318	87-010-382-080		CAP, ELECT 22-25V	C458	87-010-312-080		C-CAP,S 15P-50 CH
C319	87-010-405-080		CAP, ELECT 10-50V	C459	87-010-263-080		CAP, ELECT 100-10V
C320	87-010-405-080		CAP, ELECT 10-50V	C460	87-015-819-080		CAPACITOR,0.01
C321	87-012-157-080		C-CAP,S 330P-50 CH	C461	87-010-197-080		CAP, CHIP 0.01 DM
C322	87-012-157-080		C-CAP,S 330P-50 CH	C462	87-010-248-080		CAP, ELECT 220-10V
C323	87-010-197-080		CAP, CHIP 0.01 DM	C463	87-A11-132-080		AXIAL CAP 0.01U/50V(K)
C324	87-010-197-080		CAP, CHIP 0.01 DM	C465	87-010-404-080		CAP, ELECT 4.7-50V
C325	87-010-180-080		C-CER 1500P	C466	87-012-368-080		C-CAP,S 0.1-50 F
C326	87-010-180-080		C-CER 1500P	C467	87-010-263-080		CAP, ELECT 100-10V
C327	87-010-404-080		CAP, ELECT 4.7-50V	C468	87-015-819-080		CAPACITOR,0.01
C328	87-010-178-080		CHIP CAP 1000P	C469	87-012-154-080		C-CAP,S 150P-50 CH
C329	87-018-132-080		CAP,CER 2200P-16V	C470	87-010-544-080		CAP, ELECT 0.1-50V
C330	87-010-213-080		C-CAP,S 0.015-50 B	C471	87-A11-601-080		C-CAP,S 0.1-25 K B
C331	87-010-374-080		CAP, ELECT 47-10V	C472	87-A11-601-080		C-CAP,S 0.1-25 K B
C332	87-010-178-080		CHIP CAP 1000P	C473	87-A11-601-080		C-CAP,S 0.1-25 K B
C334	87-012-155-080		C-CAP 180P-50CH	C474	87-A11-601-080		C-CAP,S 0.1-25 K B
C335	87-010-178-080		CHIP CAP 1000P	C475	87-015-819-080		CAPACITOR,0.01
C341	87-012-157-080		C-CAP,S 330P-50 CH	C476	87-010-236-080		CAP,E 1000-10 SME
C342	87-012-157-080		C-CAP,S 330P-50 CH	C477	87-010-197-080		CAP, CHIP 0.01 DM
C343	87-012-157-080		C-CAP,S 330P-50 CH	C478	87-010-263-080		CAP, ELECT 100-10V
C344	87-012-157-080		C-CAP,S 330P-50 CH	C479	87-010-197-080		CAP, CHIP 0.01 DM
C350	87-010-197-080		CAP, CHIP 0.01 DM	C480	87-010-221-080		CAP, ELECT 470-10V
C401	87-010-403-080		CAP, ELECT 3.3-50V	C481	87-010-405-080		CAP, ELECT 10-50V
C402	87-010-197-080		CAP, CHIP 0.01 DM	C482	87-010-405-080		CAP, ELECT 10-50V
C403	87-010-263-080		CAP, ELECT 100-10V	C489	87-012-368-080		C-CAP,S 0.1-50 F
C404	87-010-248-080		CAP, ELECT 220-10V	C490	87-012-368-080		C-CAP,S 0.1-50 F
C405	87-010-197-080		CAP, CHIP 0.01 DM	C491	87-015-819-080		CAPACITOR,0.01
C406	87-010-374-080		CAP, ELECT 47-10V	C492	87-010-221-080		CAP, ELECT 470-10V
C407	87-010-178-080		CHIP CAP 1000P	C493	87-A11-566-080		C-CAP,S 0.01-25 K B
C408	87-010-198-080		CAP, CHIP 0.022	C494	87-A11-132-080		AXIAL CAP 0.01U/50V(K)
C409	87-010-248-080		CAP, ELECT 220-10V	C500	87-010-197-080		CAP, CHIP 0.01 DM
C410	87-010-263-080		CAP, ELECT 100-10V	C501	87-012-368-080		C-CAP,S 0.1-50 F
C411	87-A11-177-080		C-CAP,S 0.15-16 K B	C506	87-010-404-080		CAP, ELECT 4.7-50V
C412	87-010-401-080		CAP, ELECT 1-50V	C507	87-010-401-080		CAP, ELECT 1-50V
C413	87-016-369-080		C-CAP,S 0.033-25 B K	C508	87-010-221-080		CAP, ELECT 470-10V
C414	87-010-405-080		CAP, ELECT 10-50V	C509	87-010-197-010		CAP, S 0.01-25
C416	87-010-545-080		CAP, ELECT 0.22-50V	C510	87-012-368-080		C-CAP,S 0.1-50 F
C417	87-012-157-080		C-CAP,S 330P-50 CH	C511	87-010-263-080		CAP, ELECT 100-10V
C418	87-010-213-080		C-CAP,S 0.015-50 B	C512	87-010-385-080		CAP, ELECT 220-25V
C419	87-A11-608-080		C-CAP,S 0.33-25 K B	C514	87-010-248-080		CAP, ELECT 220-10V
C420	87-016-369-080		C-CAP,S 0.033-25 B K	C516	87-010-384-080		CAP, ELECT 100-25V
C421	87-A11-177-080		C-CAP,S 0.15-16 K B	C521	87-010-197-080		CAP, CHIP 0.01 DM
C422	87-010-184-080		CHIP CAPACITOR 3300P(K)	C522	87-010-263-080		CAP, ELECT 100-10V
C423	87-010-758-080		C-CAP,U 0.068-25F	C762	87-010-198-080		CAP, CHIP 0.022
C424	87-010-959-080		CHIP CAP,U 0.056-16F	C765	87-016-669-080		C-CAP,S 0.1-25 K B
C425	87-010-176-080		C-CAP,S 680P-50 SL	C766	87-010-260-080		CAP, ELECT 47-25V
C426	87-A11-608-080		C-CAP,S 0.33-25 K B	C3001	87-012-157-080		C-CAP,S 330P-50 CH
C428	87-010-197-080		CAP, CHIP 0.01 DM	C4001	87-010-322-080		C-CAP,S 100P-50 CH
C429	87-010-186-080		CAP,CHIP 4700P	C4002	87-010-322-080		C-CAP,S 100P-50 CH
C430	87-012-156-080		C-CAP,S 220P-50 CH	C4003	87-010-322-080		C-CAP,S 100P-50 CH
C431	87-010-545-080		CAP, ELECT 0.22-50V	C4004	87-010-322-080		C-CAP,S 100P-50 CH
C432	87-010-374-080		CAP, ELECT 47-10V	C4005	87-010-322-080		C-CAP,S 100P-50 CH
C433	87-010-401-080		CAP, ELECT 1-50V	C4006	87-010-322-080		C-CAP,S 100P-50 CH
C434	87-010-184-080		CHIP CAPACITOR 3300P(K)	C4007	87-010-197-080		CAP, CHIP 0.01 DM
C435	87-010-197-080		CAP, CHIP 0.01 DM	C4008	87-010-197-080		CAP, CHIP 0.01 DM
C436	87-010-374-080		CAP, ELECT 47-10V	C4009	87-010-197-080		CAP, CHIP 0.01 DM
C437	87-010-404-080		CAP, ELECT 4.7-50V	C4010	87-012-368-080		C-CAP,S 0.1-50 F
C438	87-012-368-080		C-CAP,S 0.1-50 F	C5001	87-010-194-080		CHIP.CAP,S 0.047U/25V(Z)F
C439	87-010-178-080		CHIP CAP 1000P	CF1	87-A90-128-010		FLTR,AM IF CFAL-455
C440	87-010-145-080		C-CAP,S 1P-50 CH	CF2	82-785-747-010		CF MS2 GHY R
C441	87-010-197-080		CAP, CHIP 0.01 DM	CF3	82-785-747-010		CF MS2 GHY R
C442	87-010-314-080		C-CAP,S 22P-50V	CN0	8A-CT9-641-010		CONN,3P UL1007
C445	87-012-368-080		C-CAP,S 0.1-50 F	CN401	87-A60-424-010		CONN,16P V TOC-B
C446	87-012-368-080		C-CAP,S 0.1-50 F	CN402	87-099-854-010		CONN,6P S2M-6W
C447	87-012-368-080		C-CAP,S 0.1-50 F	CN501	87-049-919-010		CONN,3P EH V WHT
C448	87-010-315-080		C-CAP,S 27P-50 CH	CNA402	8Z-CT6-631-010		CONN ASSY,6P CD MO
C450	87-010-305-080		C-CAP 470P-50CH	L2	87-A50-347-010		COIL,FM BPF EX
C451	87-012-156-080		C-CAP,S 220P-50 CH	L3	87-A50-348-010		COIL,BAR ANT LW/MW (COI)
C455	87-010-247-080		CAP, ELECT 100-50V	L4	87-A50-345-010		COIL,FM RF EX

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
L5	87-A50-343-010		COIL,FM OSC EX	J801	8A-CT9-630-010		JACK,MIC ST SW
L7	87-A50-336-010		COIL,AM IFT (TOKO)	L601	87-003-149-080		COIL,47UH
L8	87-A50-335-010		COIL,FM IFT (TOKO)	L602	87-005-849-080		COIL,10UH(CECS)
L9	87-A50-334-010		COIL,FM DET (TOKO)	L801	87-003-098-080		FIXED IND 2.2UH K TP26
L10	87-005-849-080		COIL,10UH(CECS)	LCD601	8A-CT9-620-010		LCD,HLC7107ACT-9
L16	87-A50-339-010		COIL,LW OSC (TOKO)	LED602	8Z-CT6-632-010		LED,L-934LID
L17	87-A50-337-010		COIL,AM OSC (TOKO)	LED603	8Z-CT6-632-010		LED,L-934LID
L330	88-CT6-620-010		REC OSC	LED604	8Z-CT6-632-010		LED,L-934LID
L401	87-003-102-080		COIL, 10UH	LED605	8Z-CT6-632-010		LED,L-934LID
L404	87-003-152-080		COIL, 100UH	LED606	8Z-CT6-632-010		LED,L-934LID
PN301	87-A60-110-010		CONN,4P V S2M-4W	LED607	8Z-CT6-632-010		LED,L-934LID
PN302	87-A60-111-010		CONN,5P V S2M 5W	LED608	8Z-CT6-632-010		LED,L-934LID
PN751	87-099-832-010		CONN,8P S2M-8W	LED609	8Z-CT6-632-010		LED,L-934LID
PVC1	87-A91-318-010		TUN-CAP,20P-140P E(TWD)	LED610	8Z-CT6-632-010		LED,L-934LID
R761	87-029-019-010		RES, FUSEIBLE 1/2W-2.2	SW600	8Z-CT6-636-010		SW,TACT EVQJAC04M
SFR430	87-024-437-080		SFR100K,RH063EC	SW602	8Z-CT6-636-010		SW,TACT EVQJAC04M
SFR761	87-024-239-010		SFR,2.2K V RH0632C	SW603	8Z-CT6-636-010		SW,TACT EVQJAC04M
SW1	87-A91-549-010		SW,SL-6-4 SK64D01G06	SW604	8Z-CT6-636-010		SW,TACT EVQJAC04M
SW301	88-CT6-619-010		BACK SLIDE SW 6P2T SHORTIN	SW605	8Z-CT6-636-010		SW,TACT EVQJAC04M
TC5	87-011-253-080		TRIMER,30P LAR	SW606	8Z-CT6-636-010		SW,TACT EVQJAC04M
TC6	87-011-253-080		TRIMER,30P LAR	SW607	8Z-CT6-636-010		SW,TACT EVQJAC04M
X401	8Z-CD5-633-010		VIB, CER16.93MHZ FCR16.93M2	SW609	8Z-CT6-636-010		SW,TACT EVQJAC04M
FRONT C.B				SW610	8Z-CT6-636-010		SW,TACT EVQJAC04M
C601	87-010-313-080		CAP, CHIP 18P	SW611	8Z-CT6-636-010		SW,TACT EVQJAC04M
C602	87-010-315-080		C-CAP,S 27P-50 CH	SW612	8Z-CT6-636-010		SW,TACT EVQJAC04M
C603	87-010-317-080		C-CAP,S 39P-50 CH	SW613	8Z-CT6-636-010		SW,TACT EVQJAC04M
C604	87-010-314-080		C-CAP,S 22P-50V	SW614	8Z-CT6-636-010		SW,TACT EVQJAC04M
C605	87-010-317-080		C-CAP,S 39P-50 CH	SW615	8Z-CT6-636-010		SW,TACT EVQJAC04M
C606	87-010-197-080		CAP, CHIP 0.01 DM	SW616	8Z-CT6-636-010		SW,TACT EVQJAC04M
C607	87-010-197-080		CAP, CHIP 0.01 DM	VR801	87-A90-768-010		VR,RTRY 10KAX1 1 H
C608	87-016-669-080		C-CAP,S 0.1-25 K B	X601	87-030-273-010		VIB,XTAL 32.768K5PPM
C609	87-016-669-080		C-CAP,S 0.1-25 K B	X602	87-A70-070-080		VIB,CER 5.76MHZ CRHF
C610	87-010-263-080		CAP, ELECT 100-10V	PWR C.B			
C611	87-016-669-080		C-CAP,S 0.1-25 K B	C901	87-A10-577-080		CAP,CER 0.022-50 Z YF
C612	87-010-248-080		CAP, ELECT 220-10V	C902	87-A10-577-080		CAP,CER 0.022-50 Z YF
C613	87-010-402-080		CAP, ELECT 2.2-50V	C903	87-A10-577-080		CAP,CER 0.022-50 Z YF
C614	87-010-196-080		CHIP CAPACITOR,0.1-25	C904	87-A10-577-080		CAP,CER 0.022-50 Z YF
C615	87-010-400-080		CAP, ELECT 0.47-50V	△F901	87-035-139-010		FUSE, 2.5A T 250V
C616	87-010-401-080		CAP, ELECT 1-50V	FC901	87-A90-160-080		FUSE CLAMP,FC 51F
C617	87-010-179-080		CAP,CHIP S B1200P	FC902	87-A90-160-080		FUSE CLAMP,FC 51F
C618	87-010-263-080		CAP, ELECT 100-10V	MOTOR C.B			
C619	87-010-263-080		CAP, ELECT 100-10V	M2	9X-262-576-910		MOTOR GEAR ASSY
C620	87-010-197-080		CAP, CHIP 0.01 DM	PIN3	91-564-722-110		CONNECTOR 6P
C830	87-010-197-080		CAP, CHIP 0.01 DM	SW1	91-572-085-120		LEAF SW
C831	87-010-197-080		CAP, CHIP 0.01 DM				
C832	87-015-628-080		C-CAP,1800P-50 B				
C833	87-015-627-080		C-CAP,1000P-50 B				
C834	87-010-404-080		CAP, ELECT 4.7-50V				
C835	87-010-544-080		CAP, ELECT 0.1-50V				
C836	87-015-627-080		C-CAP,1000P-50 B				
C837	87-015-627-080		C-CAP,1000P-50 B				
C838	87-010-401-080		CAP, ELECT 1-50V				
C839	87-010-404-080		CAP, ELECT 4.7-50V				
C840	87-010-221-080		CAP, ELECT 470-10V				
C841	87-010-401-080		CAP, ELECT 1-50V				
C842	87-012-140-080		CAP 470P				
C844	87-010-401-080		CAP, ELECT 1-50V				
CN601	87-A60-109-010		CONN,2P V S2M-2W				
D602	8Z-CT6-632-010		LED,L-934LID				
D603	8Z-CT6-632-010		LED,L-934LID				
D604	8Z-CT6-632-010		LED,L-934LID				
D605	8Z-CT6-632-010		LED,L-934LID				
D606	8Z-CT6-632-010		LED,L-934LID				
D607	8Z-CT6-632-010		LED,L-934LID				
D608	8Z-CT6-632-010		LED,L-934LID				
D609	8Z-CT6-632-010		LED,L-934LID				
D610	8Z-CT6-632-010		LED,L-934LID				
J251	8A-CT9-630-010		JACK,MIC ST SW				

- 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

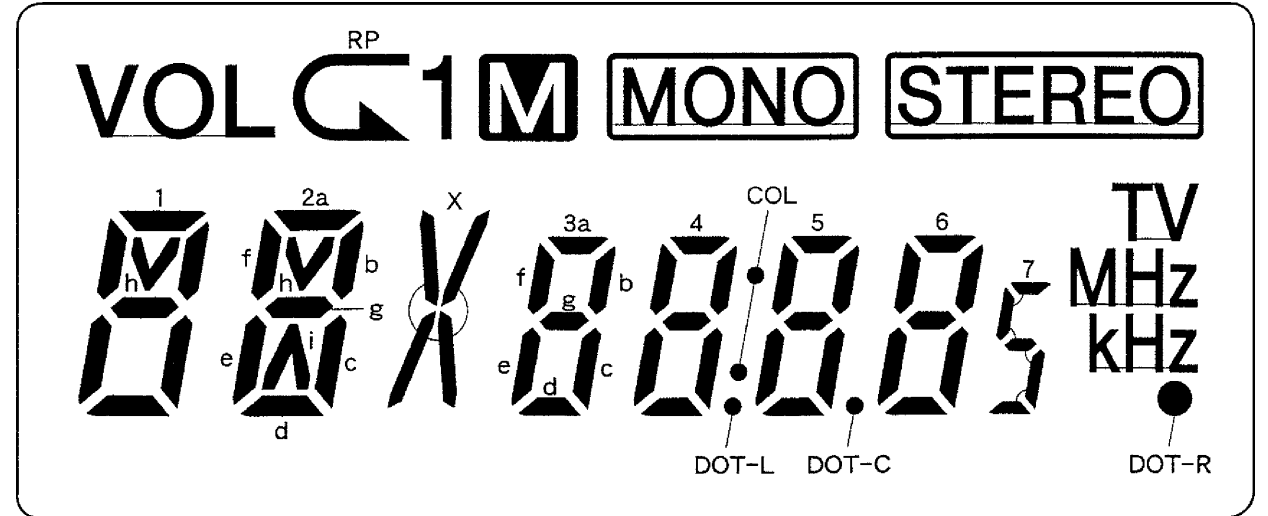
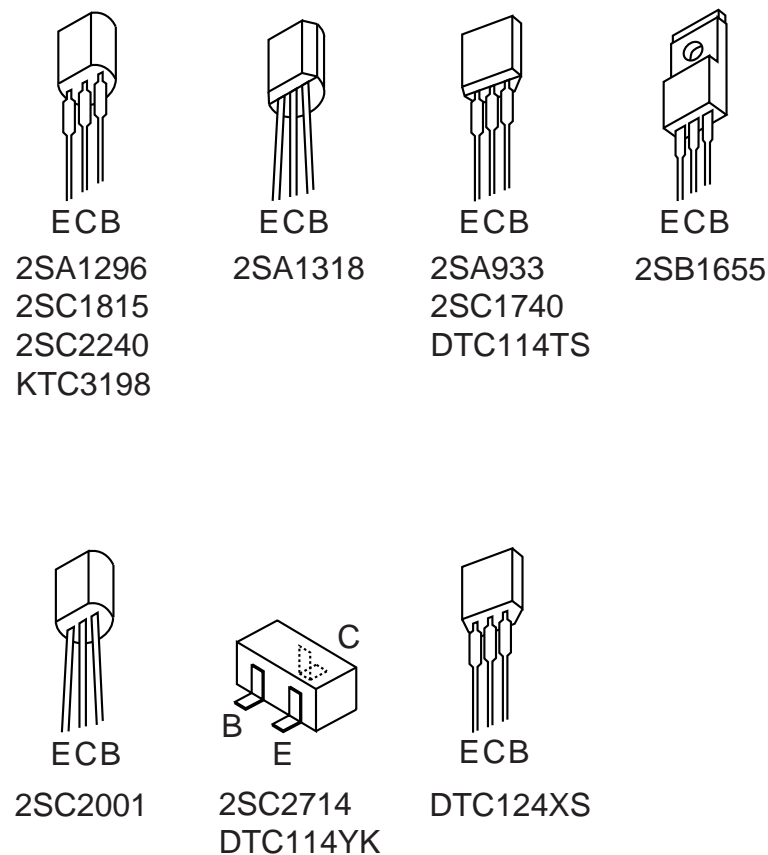
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

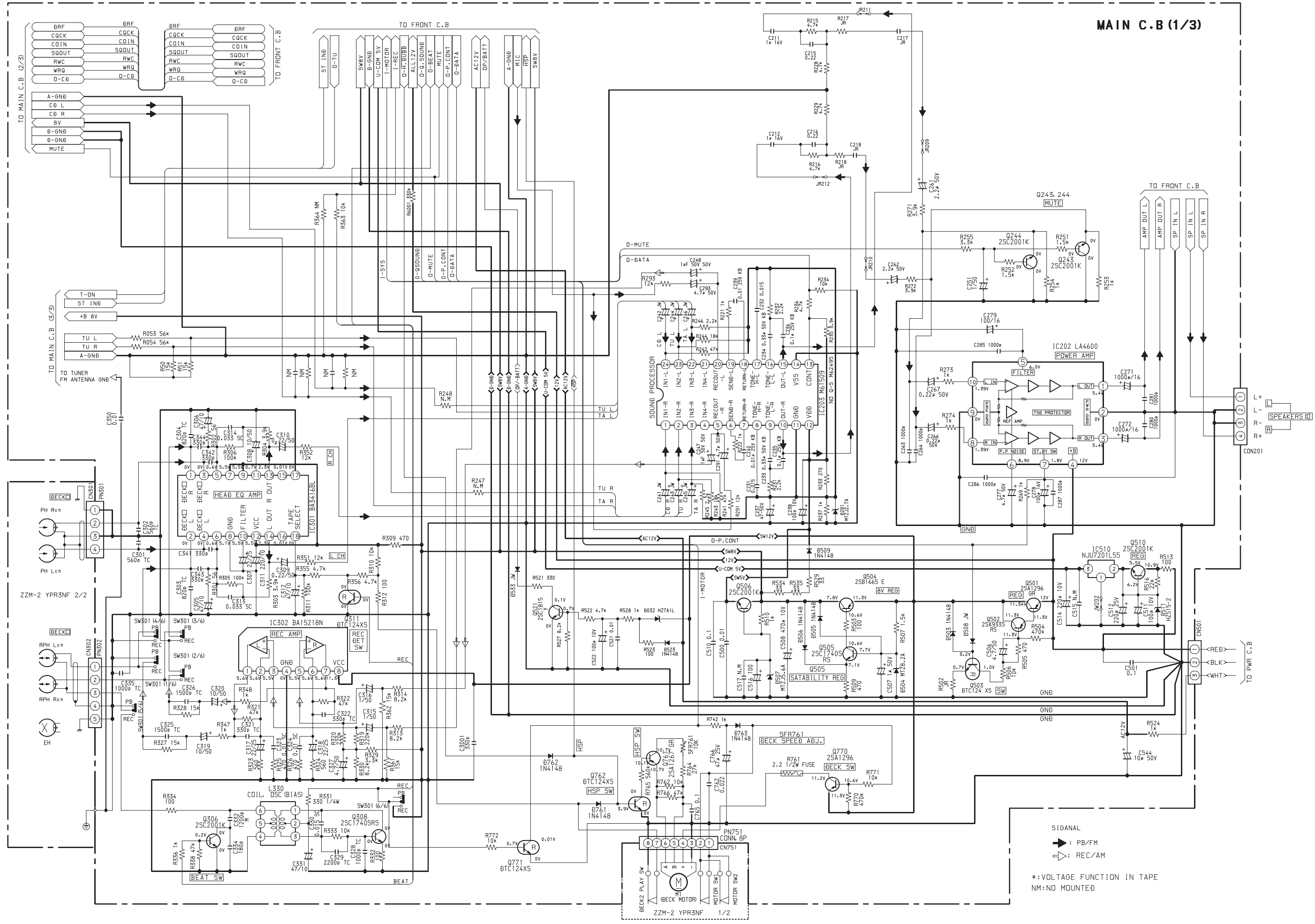
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法/Dimensions (mm)			抵抗コード : A Resistor Code : A	
				外形/Form	L	W		t
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

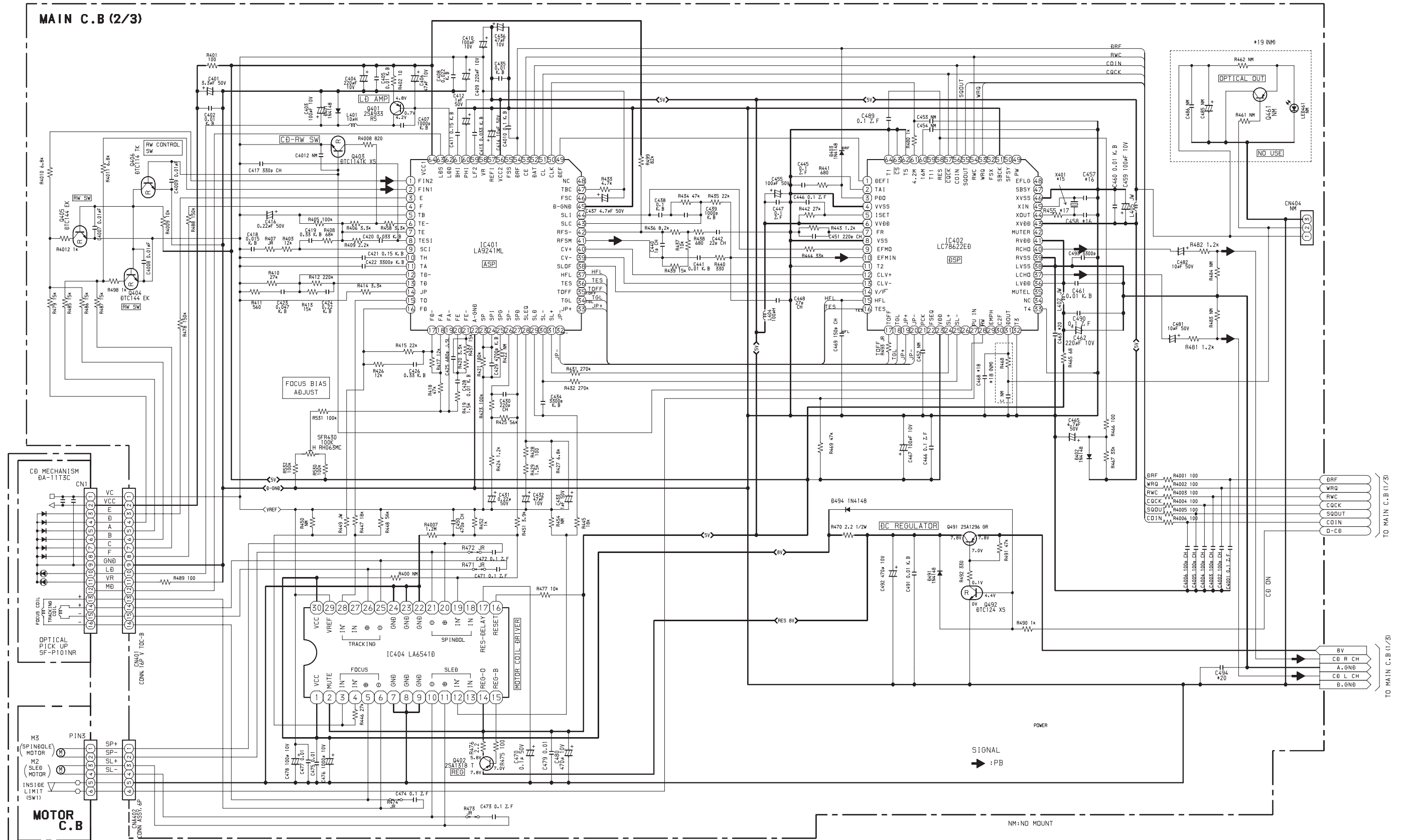
TRANSISTOR ILLUSTRATION



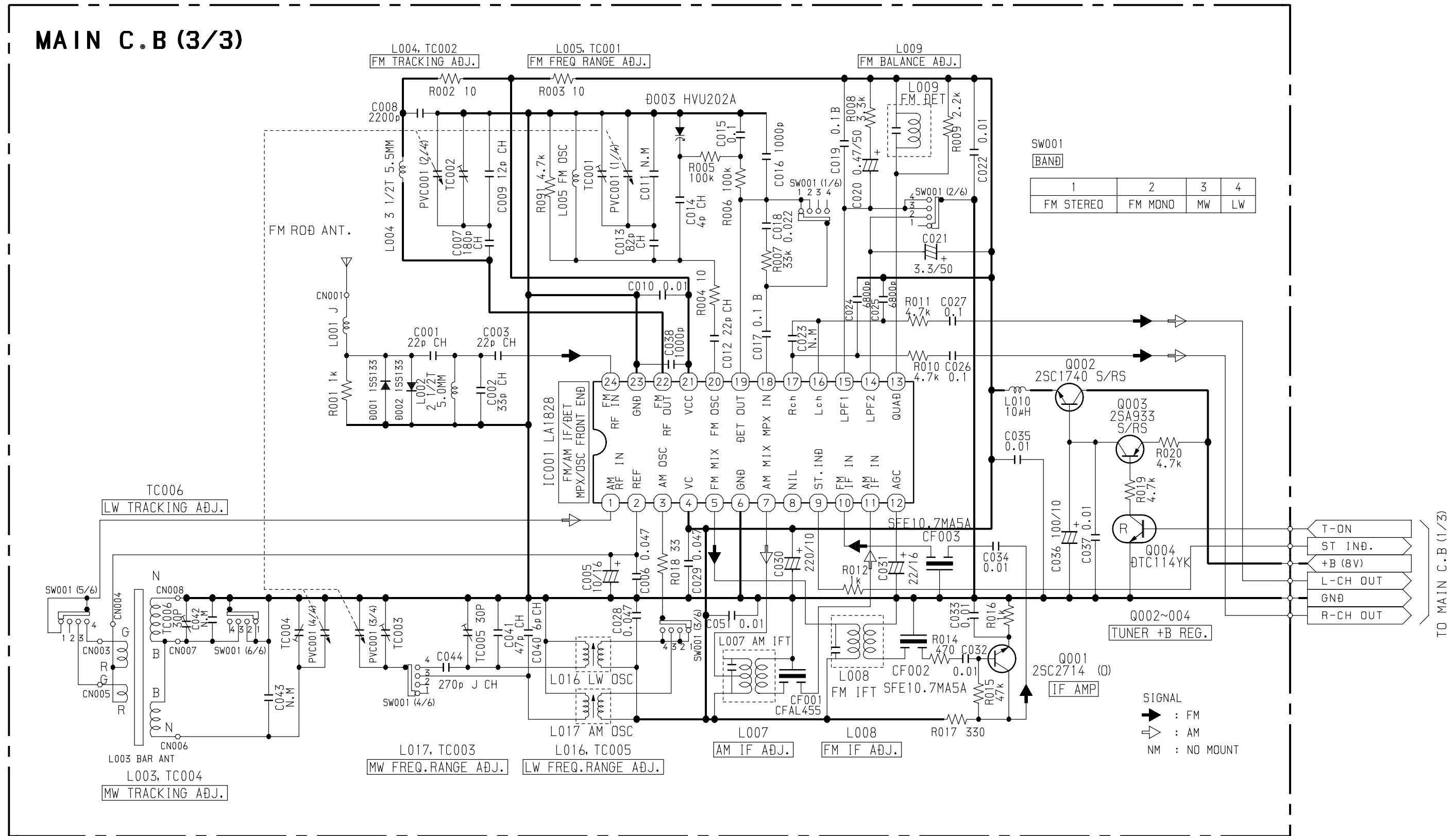
No	COM1	COM2	COM3
1	2b	2c	2d
2	1b	1c	1d
3	1a	1f	1e
4	1h	1g	VOL
5	2a	2f	2e
6	2h	2g	2i
7	3f	3e	RP
8	3a	3g	3d
9	3b	3c	1
10	4f	4e	M
11	4a	4g	4d
12	4b	4c	X
13	COL	DOT-L	MONO
14	5f	5e	DOT-R
15	5a	5g	5d
16	5b	5c	DOT-C
17	6f	6e	STEREO
18	6a	6g	6d
19	6b	6c	7
20	TV	MHz	kHz
21	COM1	---	---
22	---	COM2	---
23	---	---	COM3

SCHEMATIC DIAGRAM-1 (MAIN)

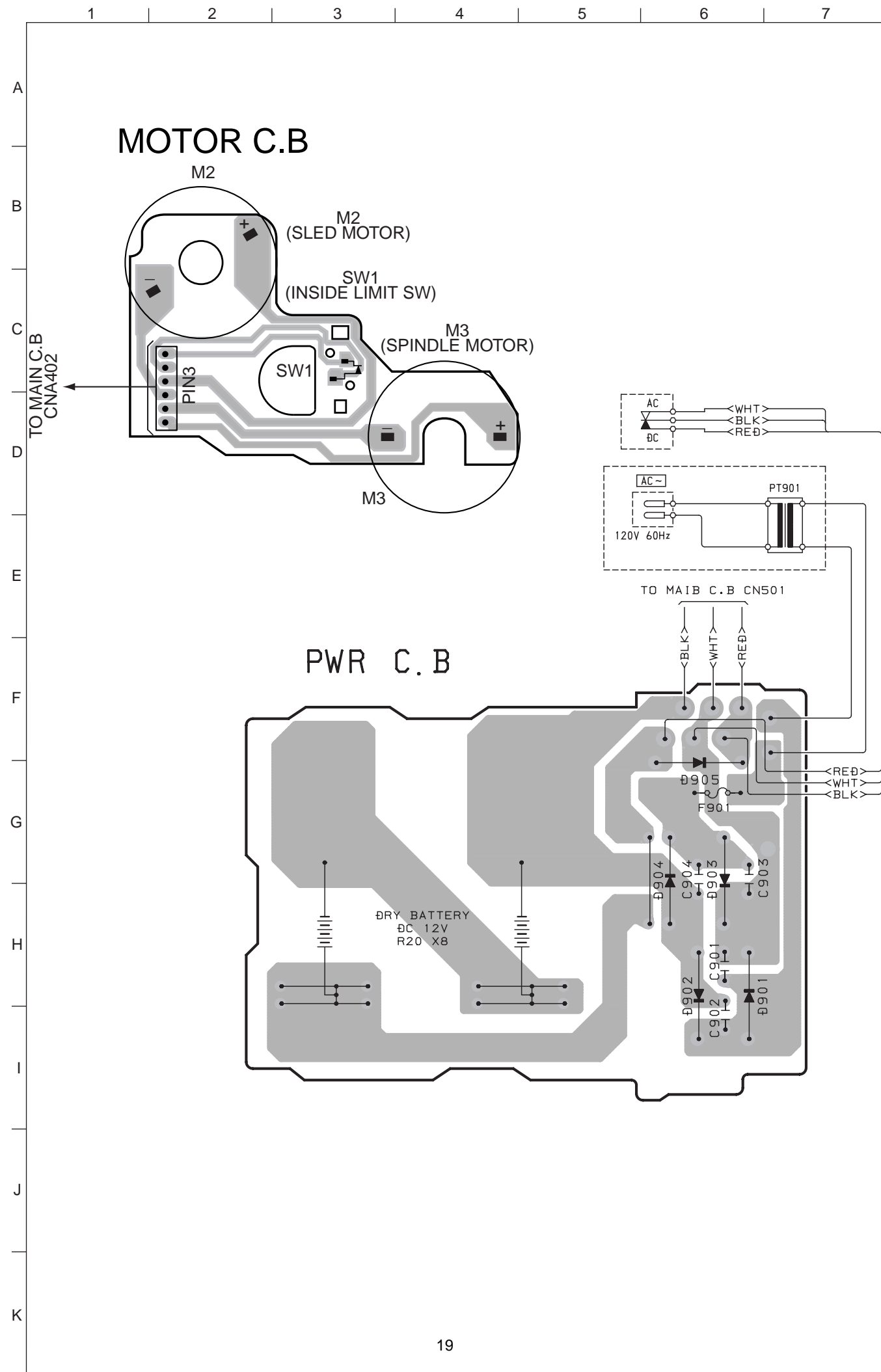




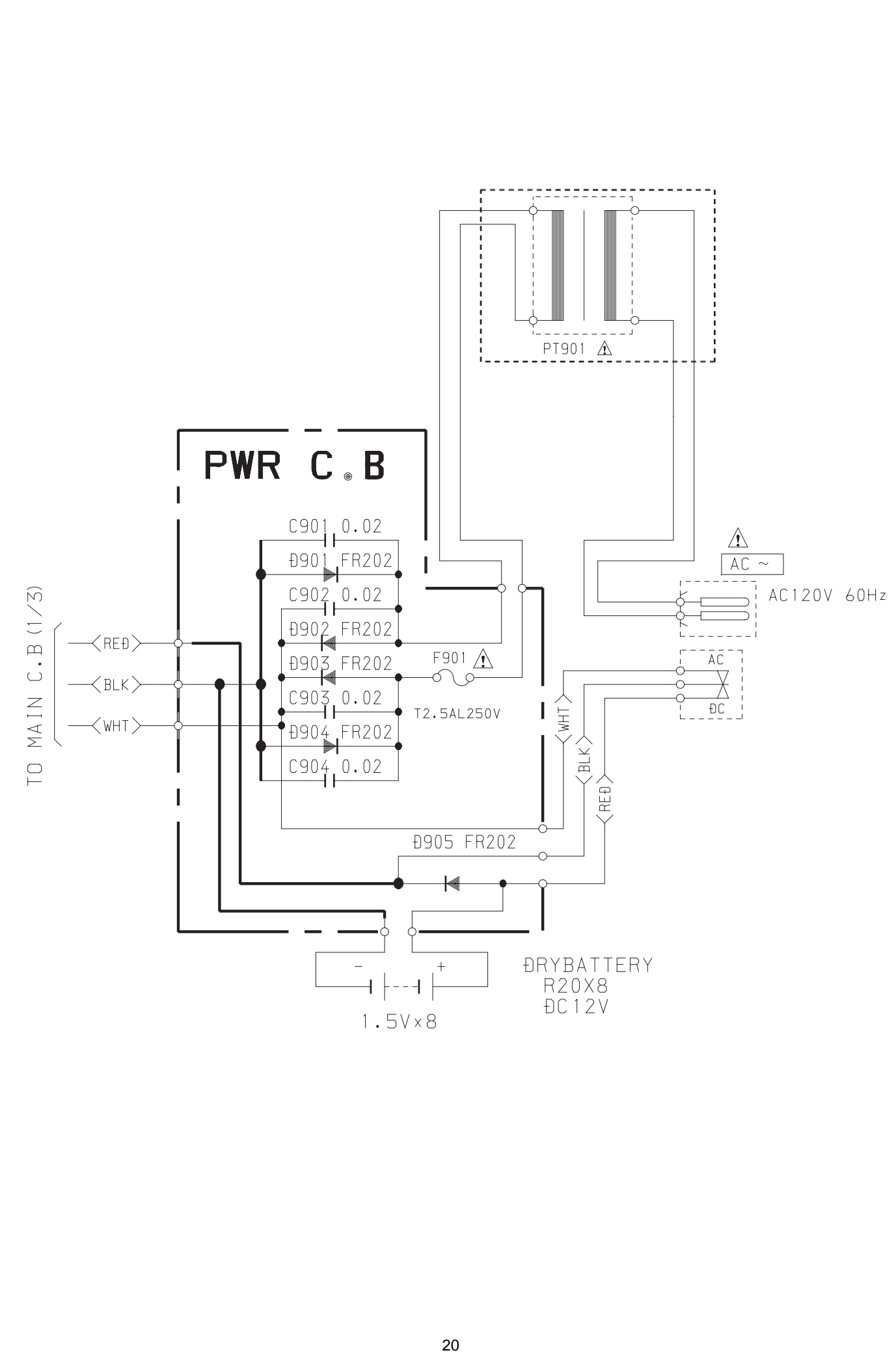
*15 (X401)	*16 (C457, 458)	*17 (R455)	*18 (C468)	*19 (OPT1 OUT)	*20 (E468, 494)	*21 (C493)	*22 (C500)	*23 (SW401)
V1B, CER 16.954MHZ (TBO)	15p	100	0.01	NO MOUNT	0.01	N.M	NO MOUNT	NO MOUNT



WIRING-2 (PWR, MOTOR)

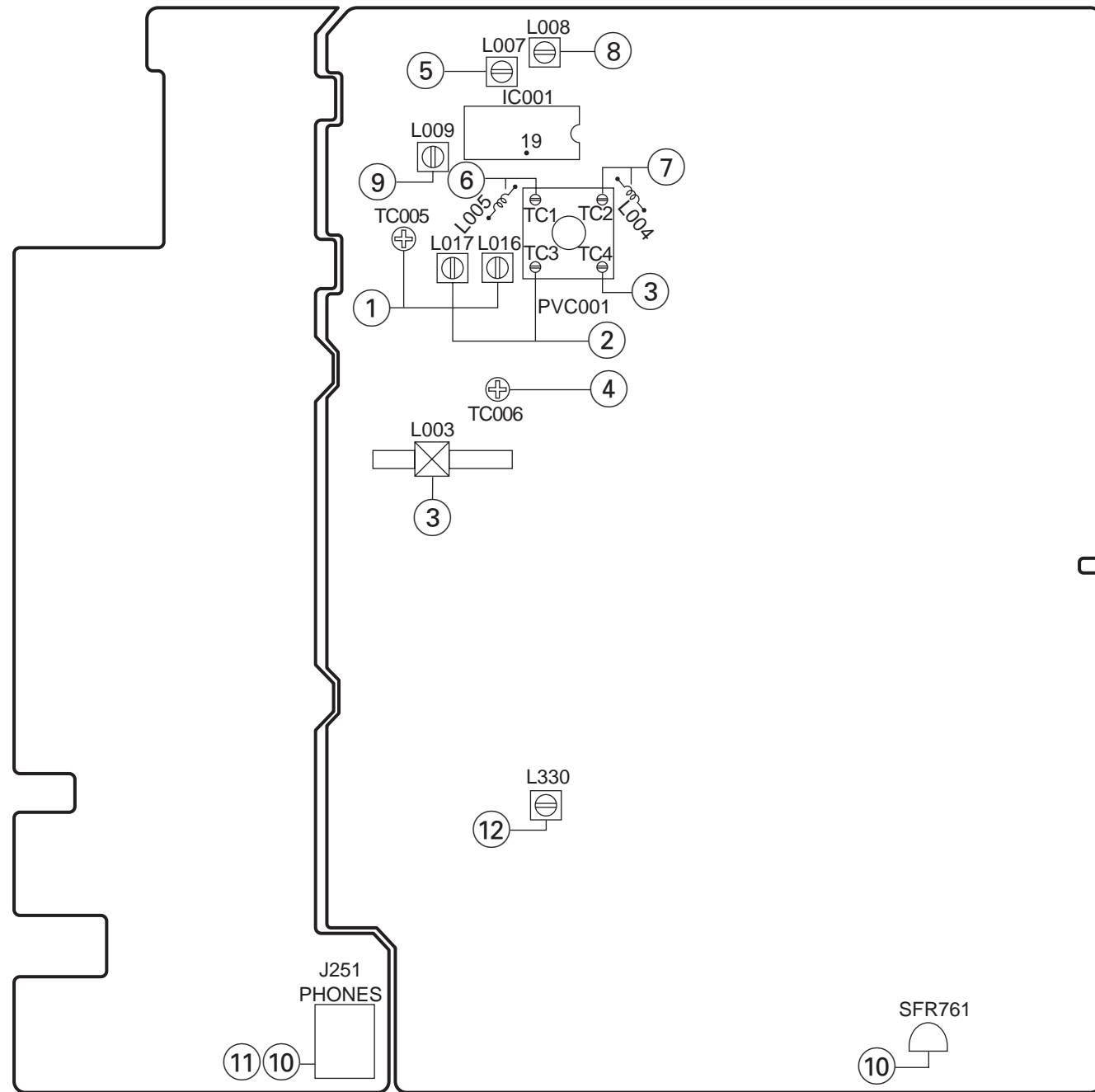


SCHEMATIC DIAGRAM-5 (POWER)



FRONTC.B

MAINC.B



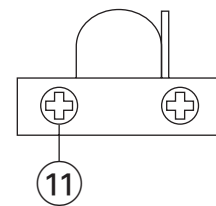
< TUNER SECTION >

1. LW Freq. Range Adjustment
 L016 145kHz
 TC005 295kHz
2. MW Freq. Range Adjustment
 L017 515kHz
 TC003 1635kHz
3. MW Tracking Adjustment
 L003 600kHz
 TC004 1400kHz
4. LW Tracking Adjustment
 TC006 288kHz
5. AM IF Adjustment
 Settings: • Test point: IC001 (LA1828) 19PIN
 • Adjustment location: L007
 Method: Adjust L007 so that the output level at 1400kHz becomes maximum.
6. FM Freq. Range Adjustment
 L005 87.4MHz
 TC001 108.3MHz
7. FM Tracking Adjustment
 L004 88.0MHz
 TC002 108.0MHz
8. FM IF Adjustment
 Settings: • Test point: IC001 (LA1828) 19PIN
 • Adjustment location: L008
 Method: Adjust L008 so that the output level at 98.0MHz becomes balanced.
9. FM Balance Adjustment
 Settings: • Test point: IC001 (LA1828) 19PIN
 • Adjustment location: L009
 Method: Adjust L009 so that the output level at 98.0MHz becomes balanced.

< TAPE SECTION >

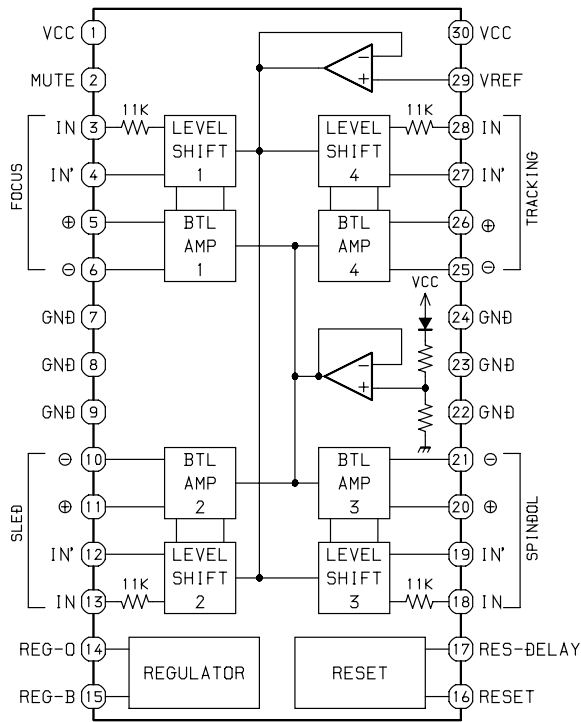
10. Tape speed Adjustment
 Settings: • Test tape: TTA-100
 • Test point: J251 (PHONES jack)
 • Adjustment location: SFR761
 Method: Play back the test tape and adjust SFR761 so that the frequency counter reads 3000Hz \pm 5Hz.
11. Head Azimuth Adjustment
 Settings: • Test tape: TTA-320
 • Test point: J251 (PHONES jack)
 • Adjustment location: Azimuth adjustment screw.
 Method: Play back the 8kHz signal of the test tape and adjust screw so that the output becomes maximum.
12. Bias frequency Adjustment
 L330 56kHz \pm 2kHz

RPH (DECK1)/PH (DECK2)

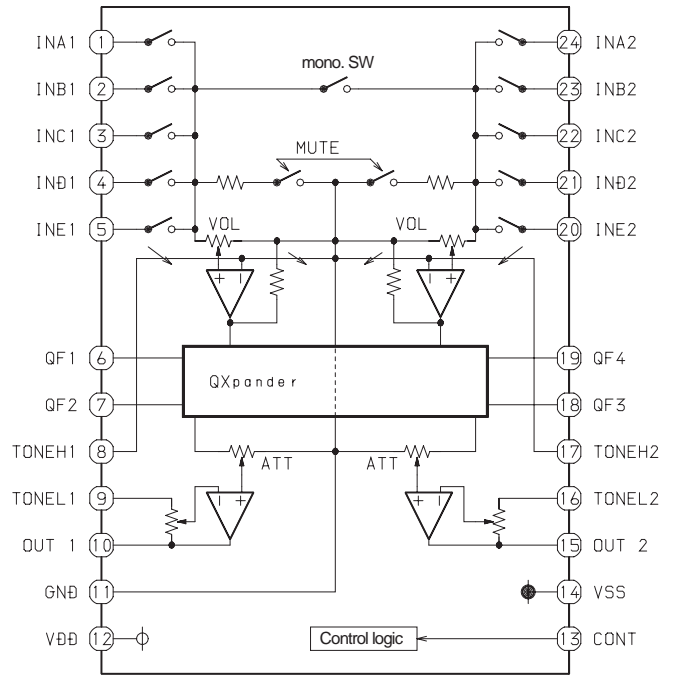


IC BLOCK DIAGRAM

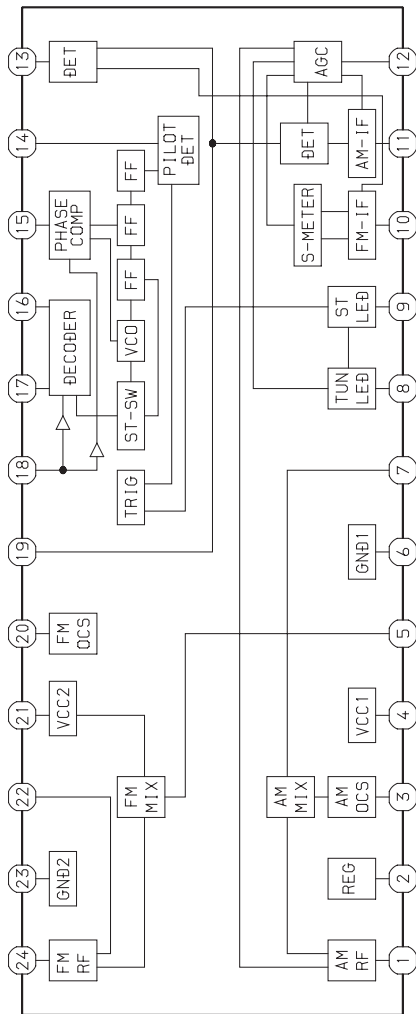
IC, LA6541D



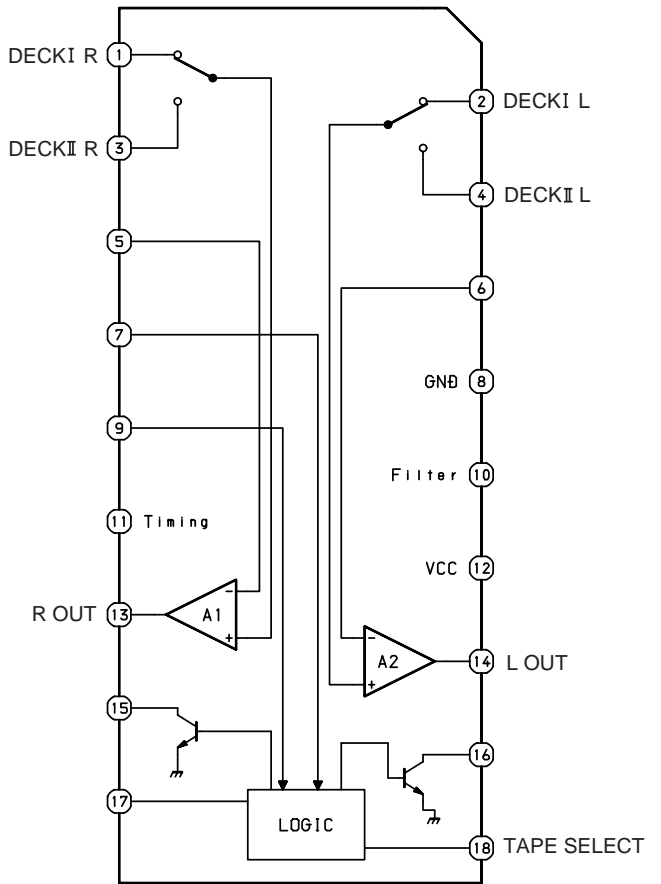
IC, M61509



IC, LA1828



IC, BA3416BL



VOLTAGE CHART

IC601(LC867132V-***)																																											
PIN NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40			
CD	0	0	0	0	0	0	3.5	1.4	2.5	0	2.0	2.5	4.5	0.5	5.0	0	5.0	5.0	0	0	0	4.5	0	0	4.5	5.0	1.0	5.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5		
TUNER	0	0	0	0	0	0	4.5	1.4	2.5	0	4.0	5.0	5.0	4.5	5.0	0	5.0	5.0	0	0	0	5.0	0	0	0	0	0	4.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.0
TAPE	0	0	0	0	0	0	4.5	1.4	2.5	0	2.0	2.5	4.5	0.5	5.0	0	5.0	1.5	0	0	0	5.0	0	0	4.5	0	0	4.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	5.0
PIN NO	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80			
CD	0	0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.5	0	0	0	0	0	0	0	0	2.5	2.5	2.5	0	4.5	4.5	0	4.5	4.5	0	0	0	0	0	0	4.5	0	4.5		
TUNER	5.0	0	0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	0	0	0	0	0	0	0	2.5	2.5	2.5	0	4.5	0	5.0	4.5	5.0	0	0	0	0	0	0	0	0	0		
TAPE	5.0	0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	0	4.5	0	0	0	0	0	0	2.5	2.5	2.5	0	5.0	0	0	4.5	4.5	0	0	0	0	0	0	0	0	0		

IC602 (SPS-442-1-F)	
I(B+)	5.5
2	0
3	4.5

IC203(M61509)																								
PIN NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
VOLT	1.5	1.5	2.0	0	2.0	2.5	2.5	2.5	2.5	2.5	2.0	4.5	3.0	0	0	0	0	0	0	0	0	0	0	0

IC401(LA9241ML)

PIN NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
STOP	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0
PLAY	2.5	1.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	0	2.5	2.5	2.5	2.5	2.5	0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0
RW	2.5	1.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0	0	2.5	2.5	2.5	2.5	2.5	0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	0
PIN NO	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
STOP	0	5.0	0	1.0	0	0	0	0	1.5	2.5	2.5	2.5	0	2.5	2.5	0	0	2.5	4.5	4.5	0	5.0	5.0	2.5	2.5	2.5	1.0	3.0	2.0	4.5	0	5.0
PLAY	0	5.0	0	1.0	0	0	0	0	2.0	2.5	2.5	2.5	0	2.5	2.5	0	0	2.5	2.5	4.5	0	5.0	5.0	2.5	2.5	2.5	1.0	3.0	2.0	1.0	0	5.0
RW	0	5.0	0	1.0	0	0	0	0	2.0	2.5	2.5	2.5	0	2.5	2.5	0	0	2.5	2.5	4.5	0	5.0	5.0	2.5	2.5	2.5	1.0	3.0	2.0	1.0	0	5.0

IC402(LC78622ED)

PIN NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
STOP	0	0	0.5	0	1.5	4.0	0	0	0	0	0	0	0	0	0	1.0	0.5	5.0	0	0	2.5	0	5.0	0	0	0	4.5	0	0	0	0	0
PLAY	0	0	1.5	0	1.5	4.0	0	0	2.5	2.5	0	0	0	0	0	1.0	0	5.0	0	0	2.5	0	0	0	0	0	4.0	0	0	2.5	0	0
RW	0	0	1.5	0	1.5	4.0	0	0	2.5	2.5	0	0	0	0	0	1.0	0	5.0	0	0	2.5	0	0	0	0	0	4.0	5.0	0	2.5	0	0
PIN NO	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
STOP	0	0	0	5.0	2.0	0	0	2.0	5.0	0	5.0	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.5	0	0	0	0
PLAY	0	0	0	5.0	2.0	0	0	2.0	5.0	0	5.0	2.0	0	0	0	0	0	0	0	1.0	0	0	0	0	4.5	4.5	0	2.5	0	0	0	0
RW	0	0	0	5.0	2.0	0	0	2.0	5.0	0	5.0	2.0	0	0	0	0	0	0	0	1.0	0	0	0	4.5	4.5	0	2.5	0	0	0	0	0

IC404(LA6541D)

PIN NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
STOP	7.5	0	2.5	2.5	3.5	3.5	0	0	0	3.5	3.5	2.5	0	5.0	7.0	5.0	5.0	0	4.5	3.5	3.5	0	0	0	0	3.5	0	2.5	0	7.5
PLAY	7.5	0	2.5	2.5	3.0	3.5	0	0	0	3.0	3.5	2.5	0	5.0	7.0	5.0	5.0	0	2.5	3.5	3.0	0	0	0	3.0	3.5	0	2.5	2.5	7.5

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	O	Signal ended output of the CV+ and CV- pin input signal.
24	SPI	I	Spindle amp input.
25	SPG	I	Pin to which external spindle gain setting resistor in 12 cm mode is connected.
26	SP-	I	Pin to which external spindle phase compensation constants are connected together with SPD pin.
27	SPD	O	Spindle control signal output pin.
28	SLEQ	I	Pin to which external sled phase compensation constants are connected.
29	SLD	O	Sled control signal output pin.
30, 31	SL-, SL+	I	Sled advance signal input pin from microprocessor.
32, 33	JP-, JP+	I	Tracking jump signal input pin from DSP.
34	TGL	I	Tracking gain control signal input from DSP. Low gain when TGL = H.
35	TOFF	I	Tracking off control signal input pin from DSP. Off when TOFF = H.

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

IC, LC78622ED

Pin No.	Pin Name	I/O	Description	
1	DEFI	I	Defect sense signal (DEF) input pin. (Connect to 0V when not used).	
2	TAI	I	For PLL.	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.
3	PDO	O		Phase comparator output pin to control external VCO.
4	VVSS	—		GND pin for built-in VCO. Be sure to connect to 0V.
5	ISET	I		Pin to which external resistor adjusting the PDO output current.
6	VVDD	—		Power supply pin for built-in VCO.
7	FR	I		Pin for VCO frequency range adjustment.
8	VSS	—		Digital system GND. Be sure to connect to 0V.
9	EFMO	O	For slice level control.	EFM signal output pin.
10	EFMIN	I		EFM signal input pin.
11	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, 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 and TU CE.
2	O-DATA	O	Data output to M62495FP.
3	O-CLK	O	Output CLK to tuner PLL.(Not connected)
4	—	—	Not Connected.
5	O-CK 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 6MHZ Ceramic Filter.
12	CF2 (OUT)	O	
13	VDD1	—	Power supply for microcomputer (+5V).
14	I-ST IND	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	I	FM, AM status input. (Not connected)
21	I-TU DO	I	Data input from tuner PLL.(Not connected)
22	O-BASS LED	O	BASS LED ON/OFF control output.
23	O-QS LED	O	Q-Sound LED ON/OFF control output.
24	O-DUBB LED	O	LED control output used for high-speed dubbing.
25	O-INT	O	INT DIODE MATRIX detection output.(Not connected)
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	S0-PA0	O	LCD segment output.
30	S1/PA1	O	LCD segment output.
31	S2/PA2	O	LCD segment output.
32	S3/PA3	O	LCD segment output.
33	S4/PA4	O	LCD segment output.
34	S5/PA5	O	LCD segment output.
35	S6/PA6	O	LCD segment output.
36	S7/PA7	O	LCD segment output.
37-40	S8~S11	O	
41	VDD3	—	Power supply for microcomputer (+5V).
42	VSS3	—	GND.
43-54	S12~S23	O	LCD segment output.
55	O-CD LED	O	LED ON/OFF control output for CD functions.

Pin No.	Pin Name	I/O	Description
56	O-TU LED	O	LED ON/OFF control output for TU functions.
57	O-TA LED	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.
61-63	—	—	Not connected.
64-66	COM0-COM2	O	LCD common output.
67	—	—	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	O-HI DUBB (NC)	O	Dubbing speed control output.
74	O-MUTE	O	Main mute output.
75	O-MO/ST	O	FM mono/stereo output.
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.

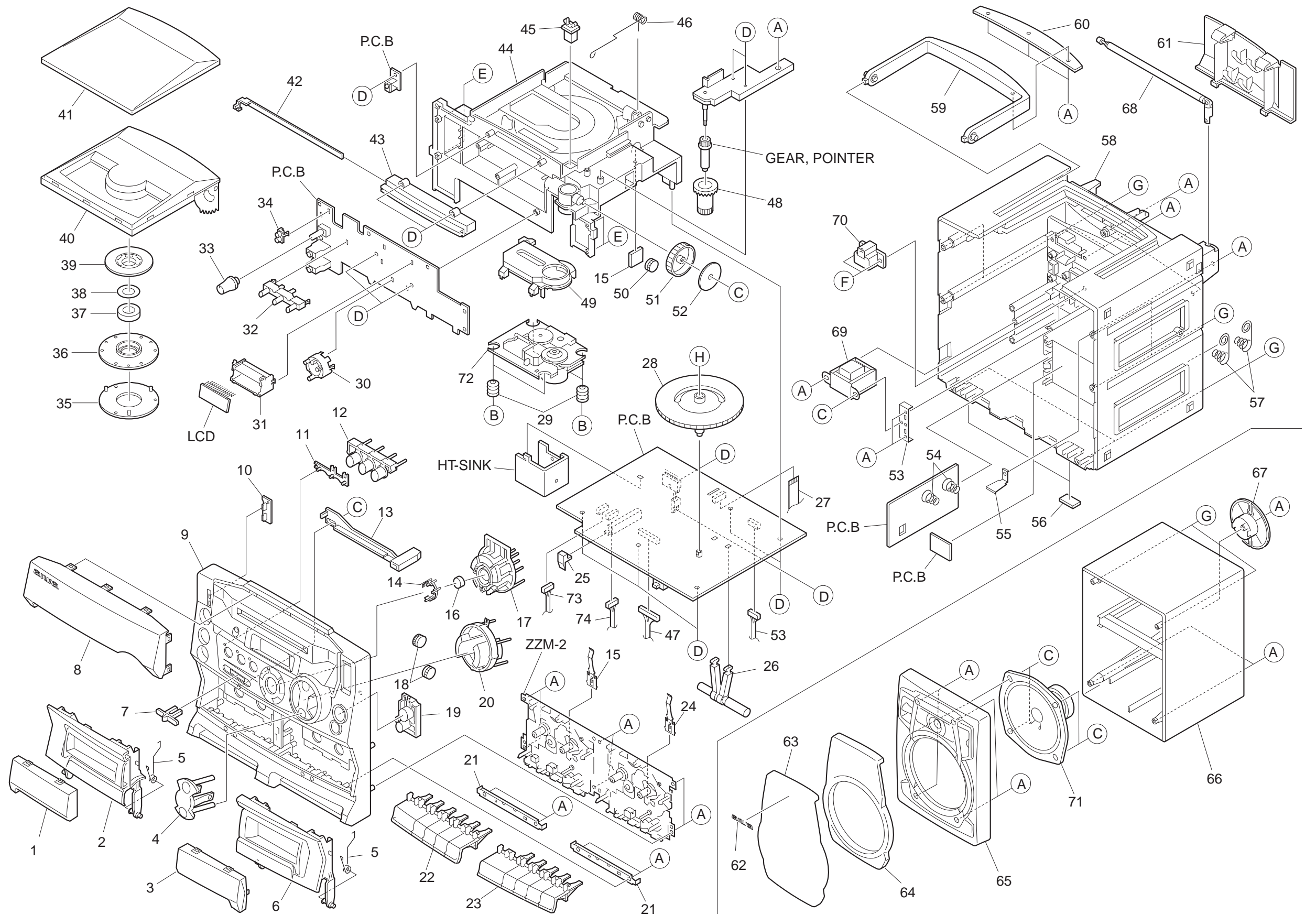
MECHANICAL PARTS LIST 1/1

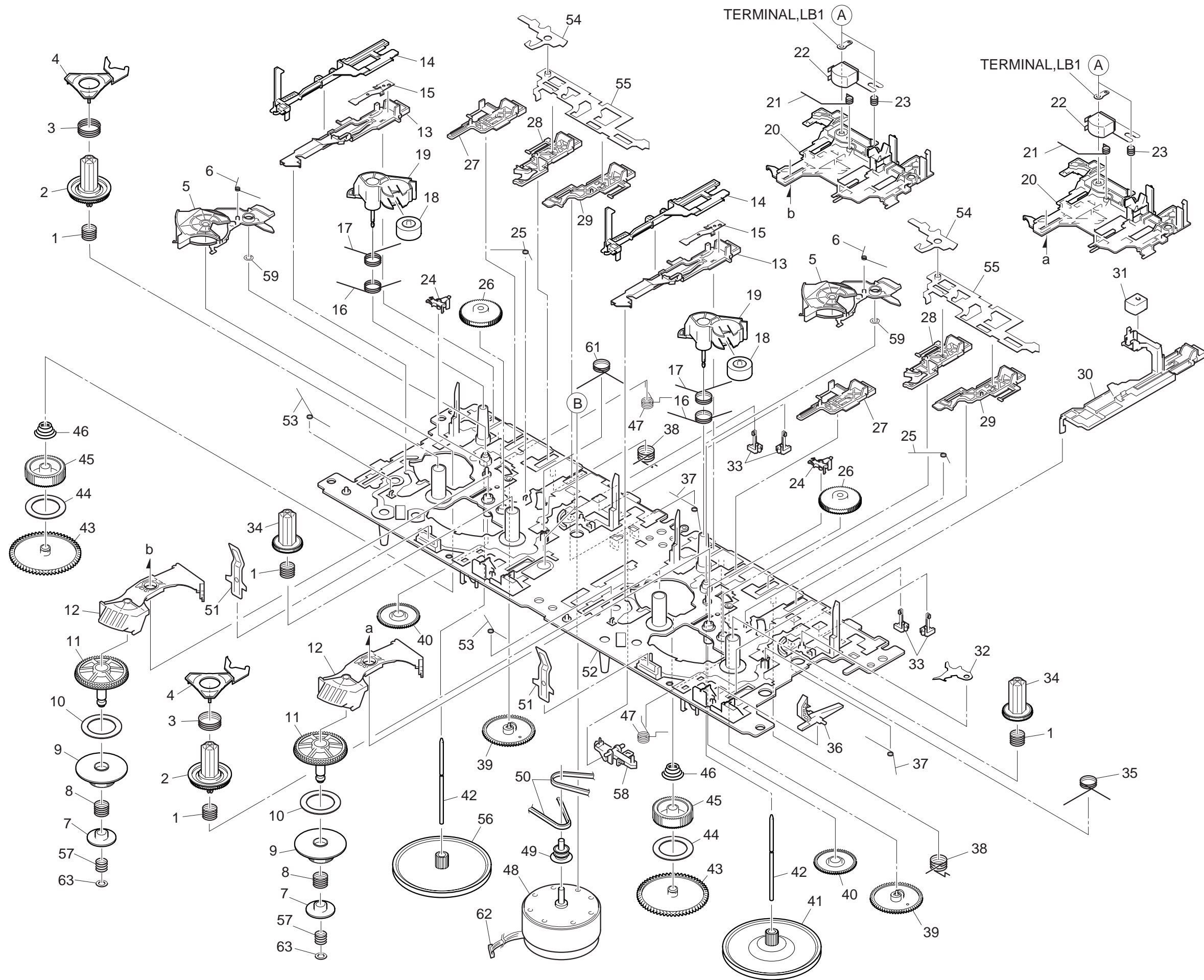
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
 If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CT9-006-010		WINDOW, CASS L	46	8A-CT9-212-010		SPR-T, CD
2	8A-CT9-002-010		BOX, CASS L	47	88-CT6-608-010		CONN ASSY, 8P MO
3	8A-CT9-007-010		WINDOW, CASS R	48	8A-CT9-210-010		GEAR, ADAP
4	8A-CT9-011-010		BTN, CD A	49	8Z-CT9-064-010		PANEL CD
5	86-CT9-210-010		SPR-T, CASS	50	87-063-164-010		OIL-DMPR 80
6	8A-CT9-003-010		BOX, CASS R	51	8A-CT9-018-010		KNOB, RTRY TUN
7	8A-CT9-019-010		KNOB, SL BAND	52	8A-CT9-028-010		COVER, TUN
8	8A-CT9-008-010		WINDOW, DISP	53	8Z-CT6-631-010		CONN ASSY, 6P CD MO
9	8A-CT9-036-010		CABI, FR EZ/K	54	86-CT9-213-010		SPR-C, BATT (-)
10	8A-CT9-021-010		LENS, POWER	55	86-CT9-207-010		HLLDR, ANT
11	8A-CT9-020-010		LENS, FUNC	56	86-CT9-223-010		CUSH, FOOT
12	8A-CT9-010-010		KEY, FUNC	57	86-CT9-212-010		SPR-C, BATT LINK
13	8A-CT9-202-010		LEVER, BAND	58	8Z-CT9-044-010		CABI, REAR
14	8A-CT9-022-010		LENS, GEQ	59	86-CT6-036-010		HANDL, RF
15	8A-CT9-215-010		SPR-P, REC A	60	88-CT6-022-010		COVER, HNDL
16	8A-CT9-023-010		BTN, QSOUND	61	86-CT6-035-010		LID, BATT RF
17	8A-CT9-052-010		BTN, GEQ EX	62	87-B00-010-010		BADGE, AIWA 30.5-5.2 S 2.5L
18	87-063-165-010		OIL-DMPR 150	63	8A-CT9-030-010		NET, SPKR
19	8A-CT9-015-010		BTN, VOL	64	8A-CT9-027-010		FRAME, SPKR NET
20	8A-CT9-012-010		BTN, CD B	65	8A-CT9-024-010		CABI, SPKR FR
21	86-CT9-208-010		HLLDR, KEY CASS	65	8A-CT9-025-010		CABI, SPKR FR R
22	8A-CT9-013-010		KEY, CASS L	66	86-CT9-117-010		CABI, SPKR-REAR L RF
23	8A-CT9-014-010		KEY, CASS R	66	86-CT9-118-010		CABI, SPKR-REAR R RF
24	8A-CT9-216-010		SPR-P, REC B	67	86-CT9-121-010		HLLDR, CORD RF
25	86-CT9-205-110		HLLDR, REC	68	88-CT6-633-010		ANT, ROD
26	88-CD6-661-010		HLLDR, BAR ANT.	69	88-CT6-630-010		PT, EZ/K
27	88-CT6-606-010		FFC WIRE 16P(1.0)	70	87-A60-178-010		JACK, AC E W/SW
28	8A-CT9-208-010		DRUM, GEAR	71	8Z-CT9-059-010		PLATE, SPKR (3.2 OHM)
29	88-CH6-220-010		CUSHION, CD A	72	M8-ZZK-E90-070		DA11T3C
30	8A-CT9-211-010		HLLDR, GEQ	73	88-CT6-604-010		CONN ASSY, 4P PH
31	8A-CT9-205-010		HLLDR, LCD	74	88-CT6-605-010		CONN ASSY, 5P RPH
32	8A-CT9-203-010		HLLDR, FUNC	A	87-751-097-410		SCREW 3X12
33	8A-CT9-017-010		KNOB, RTRY MIC	B	81-CD5-204-010		SCREW CD
34	8A-CT9-204-010		HLLDR, POWER	C	87-751-095-410		VT2+3-8 W/O
35	8Z-CT6-214-010		RING, CHUCK	D	87-571-095-410		VIT+3-8
36	8Z-CT6-213-010		BASE, CHUCK	E	87-651-100-410		VT1+3-16
37	87-036-368-010		MAGNET	F	87-651-075-210		VT1+2.6-10
38	86-CT9-222-010		PLATE, MAGNET	G	87-651-104-410		VT1+3-30
39	86-CT9-217-010		HLLDR, CHUCK A(S)	H	87-261-072-410		V+2.6-5
40	8A-CT9-004-010		BOX, CD				
41	8A-CT9-005-010		WINDOW, CD				
42	8A-CT9-009-010		POINTER, TUN				
43	8A-CT9-207-010		HLLDR, POINTER				
44	8A-CT9-201-010		CHAS, CD				
45	87-036-389-010		SW, PUSH LOCK				

COLOR NAME TABLE

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



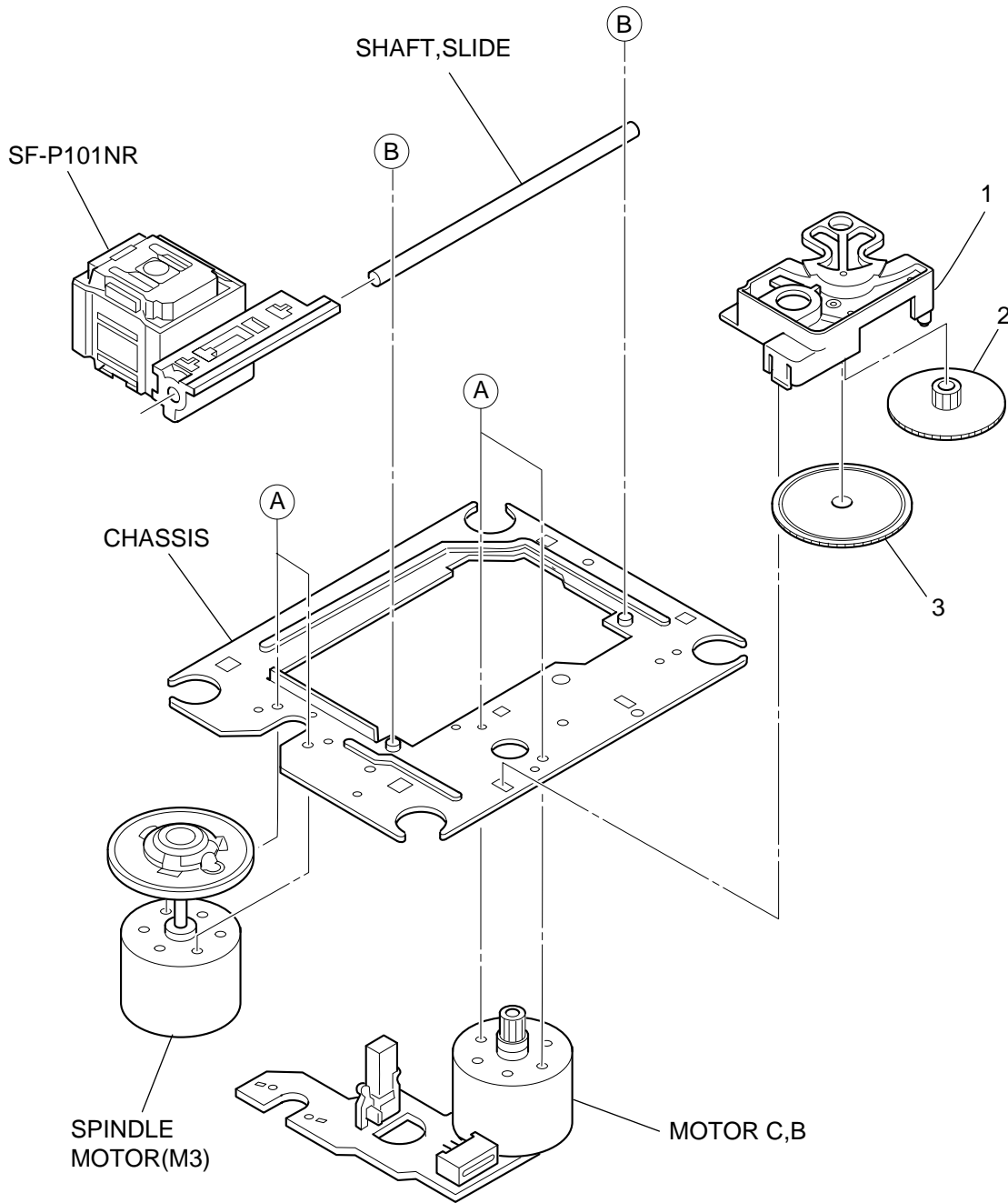


TAPE MECHANISM PARTS LIST 1/1

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	8Z-ZM1-254-210		SPR-C, REEL R	34	8Z-ZM1-226-010		GEAR, REEL L
2	8Z-ZM1-225-110		GEAR, REEL R	35	8Z-ZM1-241-010		SPR-T, PLAY
3	8Z-ZM1-253-110		SPR-C, AUTO SENSOR	36	8Z-ZM1-220-110		LEVER, REC SENSOR
4	8Z-ZM1-217-110		LEVER, AUTO SENSOR	37	8Z-ZM1-249-010		SPR-T, FR
5	8Z-ZM1-212-110		LEVER, T-UP	38	8Z-ZM1-242-110		SPR-T, FF/REW
6	8Z-ZM1-245-010		SPR-T, AUTO	39	8Z-ZM1-229-010		GEAR, CAM
7	8Z-ZM1-236-010		CLR, SLIP FF/REW	40	8Z-ZM1-232-010		GEAR, IDL FF/REW
8	8Z-ZM1-252-010		SPR-C, FF/REW	41	8Z-ZM1-234-010		FLY-WHL, ZZM-1
9	8Z-ZM1-230-010		GEAR, SLIP FF/REW A	42	8Z-ZM1-267-010		SHAFT, CAPSTAN 2
10	8Z-ZM1-269-010		FELT, FF/REW 2	43	8Z-ZM1-228-010		GEAR, SLIP T-UP B
11	8Z-ZM1-238-110		GEAR, SLIP FF/REW B 2	44	8Z-ZM1-265-010		FELT, T-UP
12	8Z-ZM1-237-010		LEVER, FF/REW 2	45	8Z-ZM1-227-010		GEAR, SLIP T-UP A
13	8Z-ZM1-209-210		LEVER, PAUSE	46	8Z-ZM1-251-110		SPR-C, T-UP SLIP
14	8Z-ZM1-218-110		LEVER, E-LOCK H	47	8Z-ZM1-243-210		SPR-T, STOP/PAUSE
15	8Z-ZM1-256-010		SPR-P, PAUSE	48	87-A91-532-010		MOT, MS15U2LW1A
16	8Z-ZM1-244-010		SPR-T, T-UP	49	8Z-ZM1-235-010		PULLEY, MOT
17	8Z-ZM1-247-210		SPR-T, PINCH	50	8Z-ZM2-216-010		BELT, MAIN M
18	8Z-ZM1-261-110		ROLLER ASSY, PINCH	51	8Z-ZM1-260-010		SPR-P, CASSETTE
19	8Z-ZM1-221-010		LEVER, PINCH	52	8Z-ZM2-201-010		CHAS ASSY, ZZM-2
20	8Z-ZM1-205-210		LEVER, PLAY	53	8Z-ZM1-255-110		SPR-T, E-LOCK
21	8Z-ZM1-248-110		SPR-T, BRG	54	8Z-ZM2-219-010		LEVER, E-OPEN ZZM-2
22	87-A90-403-110		HEAD, RPH MS15R	55	8Z-ZM1-214-110		LEVER, LOCK
23	84-ZM2-227-310		SPR-C, AZIMUTH	56	8Z-ZM2-211-010		FLY-WHL, ZZM-2
24	8Z-ZM1-216-010		LEVER, AUTO	57	8Z-ZM1-257-110		SPR-C, F/R
25	8Z-ZM1-246-010		SPR-T, AUTO 2	58	8Z-ZM2-210-010		LEVER, BRIDGE<YR2NF, YR3NF>
26	8Z-ZM2-214-010		GEAR, IDL REW ZZM-2	59	80-ZM6-243-010		SH 1.75-3.6-0.5 SLT
27	8Z-ZM2-212-010		LEVER, STOP ZZM-2	60	87-A91-494-010		SW, LEAF MSW17820<YR1NF, YR2NF>
28	8Z-ZM1-207-010		LEVER, FF	61	8Z-ZM1-241-010		SPR-T, PLAY<YR1NF>
29	8Z-ZM1-206-010		LEVER, REW	61	8Z-ZM2-217-010		SPR-T, PLAY 2<YR2NF, YR3NF>
30	8Z-ZM1-210-010		LEVER, REC<YR1NF>	62	8Z-ZM2-601-010		CONN ASSY, 9P ZZM-2<YR1NF>
30	8Z-ZM1-211-110		LEVER, REC 2<YR2NF, YR3NF>	63	8Z-ZM1-275-010		W-L, 1.47-4-0.25
31	87-A90-404-010		HEAD, EH LE15B<YR1NF>	A	84-ZM2-242-010		S-SCREW, AZ1-2-6.4
31	87-A91-533-010		HEAD, EH PH-K380<YR2NF, YR3NF>	B	8Z-ZM2-220-110		V+2.6 ZZM-2
32	8Z-ZM2-218-010		LEVER, REC LOCK ZZM-2				
33	87-A91-492-010		SW, LEAF MSW18560				

CD MECHANISM EXPLODED VIEW 1/1



CD 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。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

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