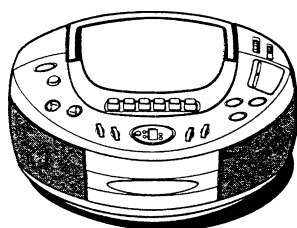




CSD-A510 LH(S),EZ(S),K(S) CSD-A519 LH1J(S)



SERVICE MANUAL

COMPACT DISC RADIO
CASSETTE RECORDER

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

This Service Manual is the "Revision Publishing" and replaces "Simple Manual"
CSD-A510 LH(S)(S/M Code No. 09-003-343-2T1)
CSD-A510 EZ(S),K(S)/A519 LH1J(S)(S/M Code No. 09-003-343-2T2).

aiwa
S/M Code No. 09-003-343-2R1

REVISION
DATA

SPECIFICATIONS

LH, HA MODELS

Tuner section

Frequency range, antenna — FM: 87.5 - 108.0 MHz Rod antenna,
AM: 530 - 1,710 kHz Ferrite bar antenna

Deck section

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

CD player section

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

General

Speaker — 80 mm cone type (2) / Output — Headphones jack (stereo
mini-jack) / Power output — 2.5 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 110 - 120 V/220 - 240 V
switchable, 50/60 Hz / Power consumption — 14 W / Dimensions — 302
(W) × 162 (H) × 253 (D) mm / Weight (excluding batteries) — 2.7 kg

- Design and specifications are subject to change without notice.

K MODEL

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 - 12,500 Hz (EIAJ) / Recording system — AC bias / Erasing system —
Magnet erase / Heads — Recording/playback head (1), Erasure head (1)

CD player section

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

General

Speaker — 80 mm cone type (2) / Output — Headphones jack (stereo
mini-jack) / Power output — 2.5 W + 2.5 W (EIAJ 7 ohms, 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 230 V, 50 Hz / Power
consumption — 14 W / Dimensions — 302 (W) × 162 (H) × 253 (D) mm /
Weight — 2.7 kg (excluding batteries)

- Design and specifications are subject to change without notice.

EZ MODEL

Tuner section

Frequency range, antenna — FM: 87.5 - 108.0 MHz Rod antenna,
MW: 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 - 12,500 Hz (EIAJ) / Recording system — AC bias / Erasing system —
Magnet erase / Heads — Recording/playback head (1), Erasure head (1)

CD player section

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

General

Speaker — 80 mm cone type (2) / Output — Headphones jack (stereo
mini-jack) / Power output — 2.9 W + 2.9 W (DIN MUSIC POWER), 2.5 W
+ 2.5 W (EIAJ 7 ohms, 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 230 V, 50 Hz / Power consumption — 14 W / Dimensions
— 302 (W) × 162 (H) × 253 (D) mm / Weight — 2.7 kg (excluding
batteries)

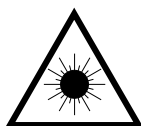
- Design and specifications are subject to change without notice.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

WARNING!

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



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

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylitävälle 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

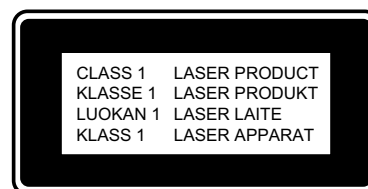
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.

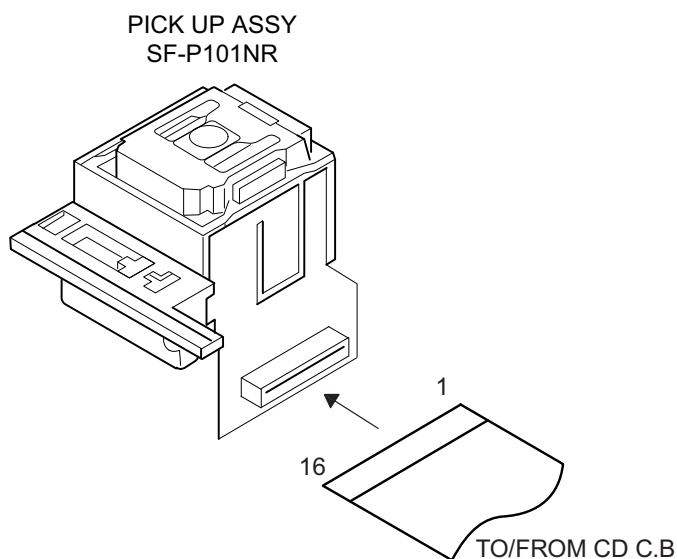
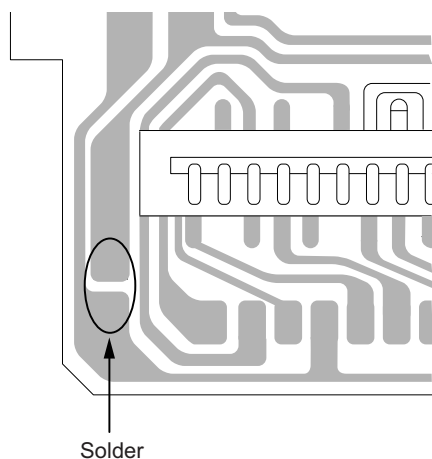
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



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.



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				C821	87-010-401-080		CAP, ELECT 1-50V
				C822	87-010-401-080		CAP, ELECT 1-50V
	87-A20-955-010	IC,LA1828		C823	87-010-178-080		CHIP CAP 1000P
	87-A21-064-010	IC,LA4227		C824	87-010-178-080		CHIP CAP 1000P
	87-A21-520-040	C-IC,M61509FP		C829	87-010-178-080		CHIP CAP 1000P
	87-A20-446-010	C-IC,LA9241ML					
	87-A20-459-010	C-IC,LC78622ED		C830	87-010-178-080		CHIP CAP 1000P
				C833	87-018-195-080		CAP, CER 1200P-16V
	87-A21-093-010	IC,LA6541D		C834	87-010-248-080		CAP, ELECT 220-10V
	8A-CD9-610-010	C-IC,LC865516A-5K51		C835	87-010-322-080		C-CAP,S 100P-50 CH
	87-A21-431-010	IC,BA4560N		C836	87-010-322-080		C-CAP,S 100P-50 CH
TRANSISTOR				C843	87-010-197-080		CAP, CHIP 0.01 DM
				C844	87-018-124-080		CAP, CER 270P-50V
	89-327-143-080	TR,2SC2714 (0.1W)		C845	87-010-178-080		CHIP CAP 1000P
	87-026-447-080	TR,2SC1740S R		C846	87-010-263-080		CAP, ELECT 100-10V
	87-026-463-080	TR,2SA933S (0.3W)		C851	87-010-186-080		CAP,CHIP 4700P
	87-026-213-080	CHIP-TR,DTC114YK					
	89-112-965-080	TR,2SA1296 (0.75W)		C852	87-010-178-080		CHIP CAP 1000P
				C853	87-018-211-080		CAP, CER 0.01-50<LH<S>>
				C853	87-A11-145-080		CAP,TC U 0.01-50 Z F<EXCEPT LH<S>>
	87-026-291-080	TR,DTC124XS		CN201	87-099-018-010		CONN,16P
	89-213-702-080	TR,2SB1370E		CN801	87-A60-110-010		CONN,4P V S2M-4W
	87-026-462-080	TR,2SC1740 S(RS 0.3W)					
	89-318-154-080	TR,2SC1815 (0.4W)		CNA302	8A-CD9-629-010		CONN ASSY,6P MA-TU
	89-109-332-380	TR,2SA933RS		CNA801	8A-CD9-630-010		CONN ASSY, 4P RPH
				L801	87-007-342-010		COIL,OSC 85K BIAS
	89-113-187-080	TR,2SA1318TU		SW801	8Z-CD9-609-010		SW,SL 1-6-2 PS62D01
	87-026-295-080	TR,DTC144TK					
	89-317-403-080	TR,2SC1740S					
	87-026-239-080	TR,DTC114TK (0.2W)		CD C.B			
	87-026-464-080	TR,DTC114TS (0.3W)					
DIODE				C30	87-010-260-080		CAP, ELECT 47-25V
				C261	87-010-402-080		CAP, ELECT 2.2-50V
				C262	87-010-402-080		CAP, ELECT 2.2-50V
				C263	87-010-178-080		CHIP CAP 1000P
				C264	87-010-178-080		CHIP CAP 1000P
	87-020-465-080	DIODE,1SS133 (110MA)					
	87-A40-128-080	C-VARI-CAP,HVU202A		C265	87-010-263-080		CAP, ELECT 100-10V
	87-027-607-080	ZENER,HZ7B3L		C266	87-010-263-080		CAP, ELECT 100-10V
	87-070-345-080	DIODE,1N4148		C267	87-010-112-080		CAP, ELECT 100-16V
	87-A40-648-080	ZENER,MTZJ8.2A		C268	87-010-112-080		CAP, ELECT 100-16V
				C271	87-010-237-080		CAP, ELECT 1000-16V
	87-017-978-080	DIODE,1N4003		C272	87-010-237-080		CAP, ELECT 1000-16V
	87-027-702-080	DIODE,ZENER HZ6C2L (200MA)		C278	87-010-405-080		CAP, ELECT 10-50V
	87-A40-465-010	DIODE,FR202		C279	87-010-385-080		CAP, ELECT 220-25V
				C301	87-016-495-000		CAP,E 3300-25 M SMG
				C306	87-010-404-080		CAP, ELECT 4.7-50V
				C307	87-010-401-080		CAP, ELECT 1-50V
				C308	87-010-221-080		CAP, ELECT 470-10V
				C311	87-010-263-080		CAP, ELECT 100-10V
MAIN C.B				C312	87-010-385-080		CAP, ELECT 220-25V
				C321	87-010-197-080		CAP, CHIP 0.01 DM
	C211	87-A11-603-080	CAP, S 0.15-16	C322	87-010-263-080		CAP, ELECT 100-10V
	C212	87-A11-603-080	CAP, S 0.15-16	C325	87-010-405-080		CAP, ELECT 10-50V
	C215	87-016-460-080	C-CAP,S 0.22-16 B	C401	87-010-403-080		CAP, ELECT 3.3-50V
	C216	87-016-460-080	C-CAP,S 0.22-16 B	C402	87-010-197-080		CAP, CHIP 0.01 DM
	C231	87-010-213-080	C-CAP,S 0.015-50 B	C403	87-010-263-080		CAP, ELECT 100-10V
	C232	87-010-213-080	C-CAP,S 0.015-50 B				
	C233	87-A10-201-080	C-CAP,S0.33-16 KB	C404	87-010-248-080		CAP, ELECT 220-10V
	C234	87-A10-201-080	C-CAP,S0.33-16 KB	C405	87-010-197-080		CAP, CHIP 0.01 DM
	C235	87-016-669-080	C-CAP,S 0.1-25 K B	C406	87-010-374-080		CAP, ELECT 47-10V
	C236	87-016-669-080	C-CAP,S 0.1-25 K B	C407	87-010-178-080		CHIP CAP 1000P
				C408	87-010-198-080		CAP, CHIP 0.022
	C237	87-010-371-080	CAP, ELECT 470-50V	C409	87-010-248-080		CAP, ELECT 220-10V
	C239	87-010-197-080	CAP, CHIP 0.01 DM	C410	87-010-263-080		CAP, ELECT 100-10V
	C240	87-010-197-080	CAP, CHIP 0.01 DM	C411	87-A11-177-080		C-CAP,S 0.15-16 K B
	C247	87-010-401-080	CAP, ELECT 1-50V	C412	87-010-401-080		CAP, ELECT 1-50V
	C248	87-010-401-080	CAP, ELECT 1-50V	C413	87-016-369-080		C-CAP,S 0.033-25 B K
	C310	87-010-248-080	CAP, ELECT 220-10V				
	C316	87-010-263-080	CAP,E 100-10	C414	87-010-405-080		CAP, ELECT 10-50V
	C317	87-010-197-080	CAP, CHIP 0.01 DM	C416	87-010-545-080		CAP, ELECT 0.22-50V
	C801	87-010-248-080	CAP, ELECT 220-10V	C417	87-012-157-080		C-CAP,S 330P-50 CH
	C805	87-012-365-080	C-CAP,S 0.027-25VBK	C418	87-010-213-080		C-CAP,S 0.015-50 B
				C419	87-A11-608-080		C-CAP,S 0.33-25 K B
	C806	87-012-365-080	C-CAP,S 0.027-25VBK				
	C807	87-010-405-080	CAP, ELECT 10-50V	C420	87-016-369-080		C-CAP,S 0.033-25 B K
	C808	87-010-405-080	CAP, ELECT 10-50V	C421	87-A11-177-080		C-CAP,S 0.15-16 K B
	C809	87-010-401-080	CAP, ELECT 1-50V	C422	87-010-183-080		C-CAP,S 2700P-50 B
	C810	87-010-401-080	CAP, ELECT 1-50V				
	C811	87-010-178-080	CHIP CAP 1000P				
	C812	87-010-178-080	CHIP CAP 1000P				
	C816	87-010-180-080	C-CER 1500P				
	C817	87-010-180-080	C-CER 1500P				

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C423	87-010-956-080		CHIP-CAP,S 0.068-25B
C424	87-010-993-080		C-CAP,S 0.056-25 B
C425	87-010-176-080		C-CAP,S 680P-50 SL
C426	87-A11-608-080		C-CAP,S 0.33-25 K B
C428	87-010-197-080		CAP, CHIP 0.01 DM
C429	87-010-186-080		CAP,CHIP 4700P
C430	87-012-156-080		C-CAP,S 220P-50 CH
C431	87-010-545-080		CAP, ELECT 0.22-50V
C432	87-010-374-080		CAP, ELECT 47-10V
C433	87-010-401-080		CAP, ELECT 1-50V
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
C437	87-010-404-080		CAP, ELECT 4.7-50V
C438	87-016-669-080		C-CAP,S 0.1-25 K B
C439	87-010-178-080		CHIP CAP 1000P
C440	87-010-145-080		C-CAP, S 1P-50 C CH
C441	87-010-197-080		CAP, CHIP 0.01 DM
C442	87-010-312-080		C-CAP,S 15P-50 CH
C445	87-012-368-080		C-CAP,S 0.1-50 F
C446	87-012-368-080		C-CAP,S 0.1-50 F
C447	87-012-368-080		C-CAP,S 0.1-50 F
C448	87-010-315-080		C-CAP,S 27P-50 CH
C450	87-012-140-080		CAP 470P
C451	87-012-156-080		C-CAP,S 220P-50 CH
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
C459	87-010-263-080		CAP, ELECT 100-10V
C460	87-015-819-080		CAPACITOR,0.01
C461	87-010-197-080		CAP, CHIP 0.01 DM
C462	87-010-248-080		CAP, ELECT 220-10V
C463	87-010-197-080		CAP, CHIP 0.01 DM
C465	87-010-404-080		CAP, ELECT 4.7-50V
C466	87-012-368-080		C-CAP,S 0.1-50 F
C467	87-010-263-080		CAP, ELECT 100-10V
C469	87-012-154-080		C-CAP,S 150P-50 CH
C470	87-010-544-080		CAP, ELECT 0.1-50V
C471	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C472	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C473	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C474	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C475	87-010-197-080		CAP, CHIP 0.01 DM
C476	87-010-236-080		CAP,E 1000-10 SME
C477	87-010-197-080		CAP, CHIP 0.01 DM
C478	87-010-263-080		CAP, ELECT 100-10V
C479	87-010-197-080		CAP, CHIP 0.01 DM
C480	87-010-221-080		CAP, ELECT 470-10V
C481	87-010-405-080		CAP, ELECT 10-50V
C482	87-010-405-080		CAP, ELECT 10-50V
C483	87-012-156-080		C-CAP,S 220P-50 CH
C484	87-012-156-080		C-CAP,S 220P-50 CH
C489	87-012-368-080		C-CAP,S 0.1-50 F
C490	87-012-368-080		C-CAP,S 0.1-50 F
C491	87-010-197-080		CAP, CHIP 0.01 DM
C492	87-010-221-080		CAP, ELECT 470-10V
C494	87-010-197-080		CAP, CHIP 0.01 DM
C495	87-016-669-080		C-CAP,S 0.1-25 K B
C501	87-012-368-080		C-CAP,S 0.1-50 F
C502	87-010-322-080		C-CAP,S 100P-50 CH
C503	87-010-322-080		C-CAP,S 100P-50 CH
C504	87-010-322-080		C-CAP,S 100P-50 CH
C505	87-010-322-080		C-CAP,S 100P-50 CH
C506	87-010-322-080		C-CAP,S 100P-50 CH
C510	87-016-669-080		C-CAP,S 0.1-25 K B
C831	87-010-198-080		CAP, CHIP 0.022
CN202	8A-CH4-689-010		CONN,3P V 2.5
CN205	87-A60-109-010		CONN,2P V S2M-2W
CN301	8A-CH4-689-010		CONN,3P V 2.5
CN401	87-A60-424-010		CONN,16P V TOC-B

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
CN403	87-099-201-010		CONN,8P 6216 H
CN802	8A-CH4-687-010		CONN,4P V 2.5
CNA205	8A-CD9-631-010		CONN ASSY, 2P DOOR
CNA402	8A-CD9-625-010		CONN ASSY,6P CD-ME
CNA802	8A-CD9-631-010		CONN ASSY, 4P TP-ME
L401	87-003-102-080		COIL, 10UH
L404	87-003-152-080		COIL, 100UH
▲R840	87-029-124-010		RES,FUSE 2.2-1/4
SFR430	87-024-437-080		SFR100K,RH063EC
SW205	87-036-389-010		SW, PUSH 1-1-1 R8120125
X401	8Z-CD5-633-010		VIB, CER16.93MHZ FCR16.93M2
FRONT C.B			
C601	87-010-313-080		CAP, CHIP 18P
C602	87-010-315-080		C-CAP,S 27P-50 CH
C603	87-010-319-080		C-CAP,S 56P-50 CH
C604	87-010-317-010		CHIP CAP,S 39P CH
C605	87-010-264-040		CAP,E 100-10 5L
C606	87-012-368-080		C-CAP,S 0.1-50 F
C607	87-015-779-010		CHIP CAPACITOR, 0.01
C608	87-010-401-080		CAP, ELECT 1-50V
C609	87-010-400-080		CAP, ELECT 0.47-50V
C611	87-A10-189-040		CAP,E 220-10 MSL
C613	87-012-368-080		C-CAP,S 0.1-50 F
C614	87-010-312-080		C-CAP,S 15P-50 CH
C617	87-012-368-080		C-CAP,S 0.1-50 F
C618	87-018-209-080		CAP,TC U 0.1-50 ZF
C620	87-015-819-080		C-CAP, 0.01-50 K B
C621	87-015-819-080		C-CAP,0.01-50 K B
C622	87-015-779-010		CHIP CAPACITOR, 0.01
C623	87-015-779-010		CHIP CAPACITOR, 0.01
C624	87-015-779-010		CHIP CAPACITOR, 0.01
C625	87-015-779-010		CHIP CAPACITOR, 0.01
C626	87-015-779-010		CHIP CAPACITOR, 0.01
C627	87-015-779-010		CHIP CAPACITOR, 0.01
C628	87-018-209-080		CAP,TC U 0.1-50 ZF UP050
C629	87-018-119-080		CAP,TC U 100P-50 K B UP050
C630	87-018-119-080		CAP,TC U 100P-50 K B UP050
C631	87-018-119-080		CAP,TC U 100P-50 K B UP050
C632	87-018-119-080		CAP,TC U 100P-50 K B UP050
CN601	87-099-033-010		CONN,16P 6216H
CN602	87-099-201-010		CONN,8P 6216 H
L601	87-003-102-080		COIL, 10UH
L602	87-003-147-080		COIL,22UH J LAL02
L603	87-005-798-010		COIL,1.0UH J LAL02
L604	87-005-798-010		COIL,1.0UH J LAL02
L606	87-003-149-080		COIL,47UH J LAL02
LED601	88-CD6-630-010		LED,934ID RED
LED602	88-CD6-630-010		LED,934ID RED
LED603	88-CD6-630-010		LED,934ID RED
LED608	88-CD6-630-010		LED,934ID RED
LED610	88-CD6-631-010		LED,934GD GRN
LED611	87-CD8-616-010		LED,SA36-11 HWA-11.0
S601	87-A90-696-080		SW,TACT TS2103-03-430
S602	87-A90-696-080		SW,TACT TS2103-03-430
S603	87-A90-696-080		SW,TACT TS2103-03-430
S604	87-A90-696-080		SW,TACT TS2103-03-430
S605	87-A90-696-080		SW,TACT TS2103-03-430
S609	87-A90-696-080		SW,TACT TS2103-03-430
S611	87-A90-696-080		SW,TACT TS2103-03-430
S614	87-A90-696-080		SW,TACT TS2103-03-430
S615	87-A90-696-080		SW,TACT TS2103-03-430
X601	87-030-273-010		VIB,XTAL 32.768K5PPM
X602	87-030-376-080		VIB,CER CSA5.76MG200
TUNER C.B			
C1	87-010-314-080		C-CAP,S 22P-50V

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C2	87-010-316-080	C-CAP,S 33P-50 CH		L8	87-A50-335-010		COIL,FM IFT (TOKO)
C3	87-010-314-080	C-CAP,S 22P-50V		L9	87-A50-577-010		COIL,FM DET(ACD)
C4	87-010-322-080	C-CAP,S 100P-50 CH		L10	87-005-849-080		COIL,10UH(CECS)
C5	87-010-378-080	CAP, ELECT 10-16V		L16	87-A50-569-010		COIL,LW OSC-ACD(COI)<K<S>,EZ<S>>
C7	87-012-156-080	C-CAP,S 220P-50 CH		L17	87-A50-337-010		COIL,AM OSC (TOKO)<K<S>,EZ<S>>
C8	87-010-197-080	CAP, CHIP 0.01 DM		PVC1	87-A91-635-010		TUN-CAP,20P-140P E-ACD
C9	87-010-311-080	CAP 12P					(MITSUMI<K<S>,EZ<S>>
C10	87-010-197-080	CAP, CHIP 0.01 DM		PVC1	87-A91-167-010		TUN-CAP,20P-160P FA-22125 N000
C11	87-010-152-080	C-CAP,S 8P-50 D CH					<LH<S>,519LH1J<S>>
C12	87-010-314-080	C-CAP,S 22P-50V		SW1	87-A91-548-010		SW,SL-2-3 SK23E01G06
							<LH<S>,519LH1J<S>>
C13	87-010-322-080	C-CAP,S 100P-50 CH		SW1	87-A91-549-010		SW,SL-6-4 SK64D01G06<K<S>,EZ<S>>
C14	87-010-148-080	C-CAP,S 4P-50 C CH		TC5	87-011-253-080		TRIMER,30P LAR<K<S>,EZ<S>>
C15	87-016-669-080	C-CAP,S 0.1-25 K B					
C16	87-010-178-080	CHIP CAP 1000P		TC6	87-011-253-080		TRIMMER,CER 30P 4.0X4.5 ECR
C17	87-016-669-080	C-CAP,S 0.1-25 K B					<K<S>,EZ<S>>
C18	87-010-197-080	CAP, CHIP 0.01 DM					
			<LH<S>,519LH1J<S>>	H.P. C.B			
C18	87-010-188-080	CAP,CHIP 6800P<K<S>,EZ<S>>		CN101	8A-CD9-628-010		CONN ASSY,3P MA-HP
C19	87-016-669-080	C-CAP,S 0.1-25 K B		CN102	87-A60-685-010		CONN,4P H WHT EH
C20	87-010-400-080	CAP, ELECT 0.47-50V		HP1	87-A60-569-010		JACK,HTJ-035-18
C21	87-010-403-080	CAP, ELECT 3.3-50V					
C22	87-010-197-080	CAP, CHIP 0.01 DM		BATT1 C.B			
C24	87-A11-569-080	C-CAP,S 0.012-50 K B					
			<LH<S>,519LH1J<S>>	C901	87-010-192-080		C-CAP,S 0.022-50 F
C24	87-010-189-080	C-CAP,S 8200P-50 K B<K<S>,EZ<S>>		C902	87-010-192-080		C-CAP,S 0.022-50 F
C25	87-010-189-080	C-CAP,S 8200P-50 K B<K<S>,EZ<S>>		C903	87-010-192-080		C-CAP,S 0.022-50 F
C25	87-A11-569-080	C-CAP,S 0.012-50 K B		C904	87-010-192-080		C-CAP,S 0.022-50 F
			<LH<S>,519LH1J<S>>	CNA901	8A-CD9-627-010		CONN ASSY,3P PWR
C26	87-012-358-080	C-CAP,S 0.47-10 Z F					
C27	87-012-358-080	C-CAP,S 0.47-10 Z F		△PR901	87-A90-092-080		PROTECTOR,2.5A 491
C28	87-010-992-080	C-CAP,S 0.047-25 B		SP901	87-CD6-213-010		SPR-C,BATT (-)
C29	87-010-992-080	C-CAP,S 0.047-25 B		SP902	87-CD6-213-010		SPR-C,BATT (-)
C30	87-010-248-080	CAP, ELECT 220-10V					
C31	87-010-379-080	CAP, ELECT 22-16V		BATT2 C.B			
C32	87-010-197-080	CAP, CHIP 0.01 DM					
C33	87-010-197-080	CAP, CHIP 0.01 DM		SP903	87-CD6-213-010		SPR-C,BATT (-)
C34	87-010-197-080	CAP, CHIP 0.01 DM		SP904	87-CD6-213-010		SPR-C,BATT (-)
C35	87-010-197-080	CAP, CHIP 0.01 DM					
C36	87-010-263-080	CAP, ELECT 100-10V		MOTOR C.B			
C37	87-010-197-080	CAP, CHIP 0.01 DM					
C40	87-010-329-080	C-CAP,S 6P-50 D UJ<K<S>,EZ<S>>		M2	9X-262-576-910		MOTOR GEAR ASSY
C41	87-010-321-080	CHIP CAPACITOR,82P(J)<K<S>,EZ<S>>		PIN3	91-564-722-110		CONNECTOR 6P
C42	87-010-150-080	C-CAP,S 6P-50 CH<K<S>,EZ<S>>		SW1	91-572-085-120		LEAF SW
C44	87-012-140-080	CAP 470P<K<S>,EZ<S>>					
C51	87-010-197-080	CAP, CHIP 0.01 DM		KEY C.B			
C56	87-010-327-080	C-CAP,S 4P-50 C UJ					
			<LH<S>,519LH1J<S>>	S606	87-A90-696-080		SW,TACT TS2103-03-430
C92	87-010-178-080	CHIP CAP 1000P		S607	87-A90-696-080		SW,TACT TS2103-03-430
CF1	87-A90-128-010	FLTR,AM IF CFAL-455		S608	87-A90-696-080		SW,TACT TS2103-03-430
CF2	87-008-261-010	FILTER, SFE10.7MA5-A					
CF3	87-008-261-010	FILTER, SFE10.7MA5-A		VOL SEL C.B<LH<S>,519LH1J<S>>			
CN2	87-A60-116-010	CONN,6P H S2M-6WR					
L2	87-A50-560-010	COIL,FM BPF(ACD)		SW901	87-A91-369-010		SW,AC SL 2 2 2 SDKGA41700
L3	8A-CD9-660-010	BAR-ANT,MW 2B-ACD(COI)					<LH<S>,519LH1J<S>>
			<LH<S>,519LH1J<S>>				
L3	8A-CD9-661-010	BAR-ANT,MW/LW 3B-ACD(COI)					
			<K<S>,EZ<S>>				
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)					
			<LH<S>,519LH1J<S>>				
L7	87-A50-579-010	COIL,AM IFT(ACD)					

- 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

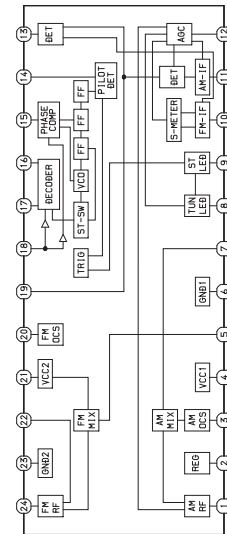
Chip Resistor Part Coding



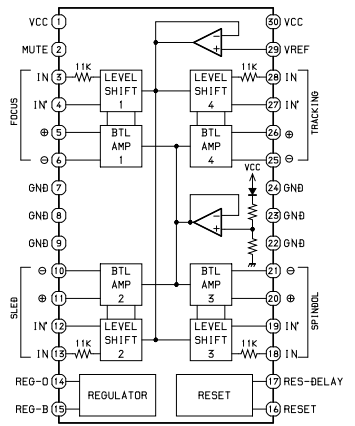
チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法/Dimensions (mm)			抵抗コード 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	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

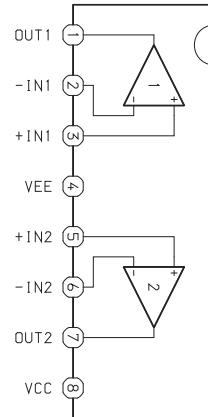
IC BLOCK DIAGRAM IC, LA1828



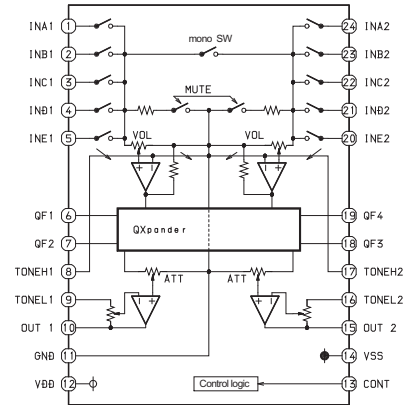
IC, LA6541D



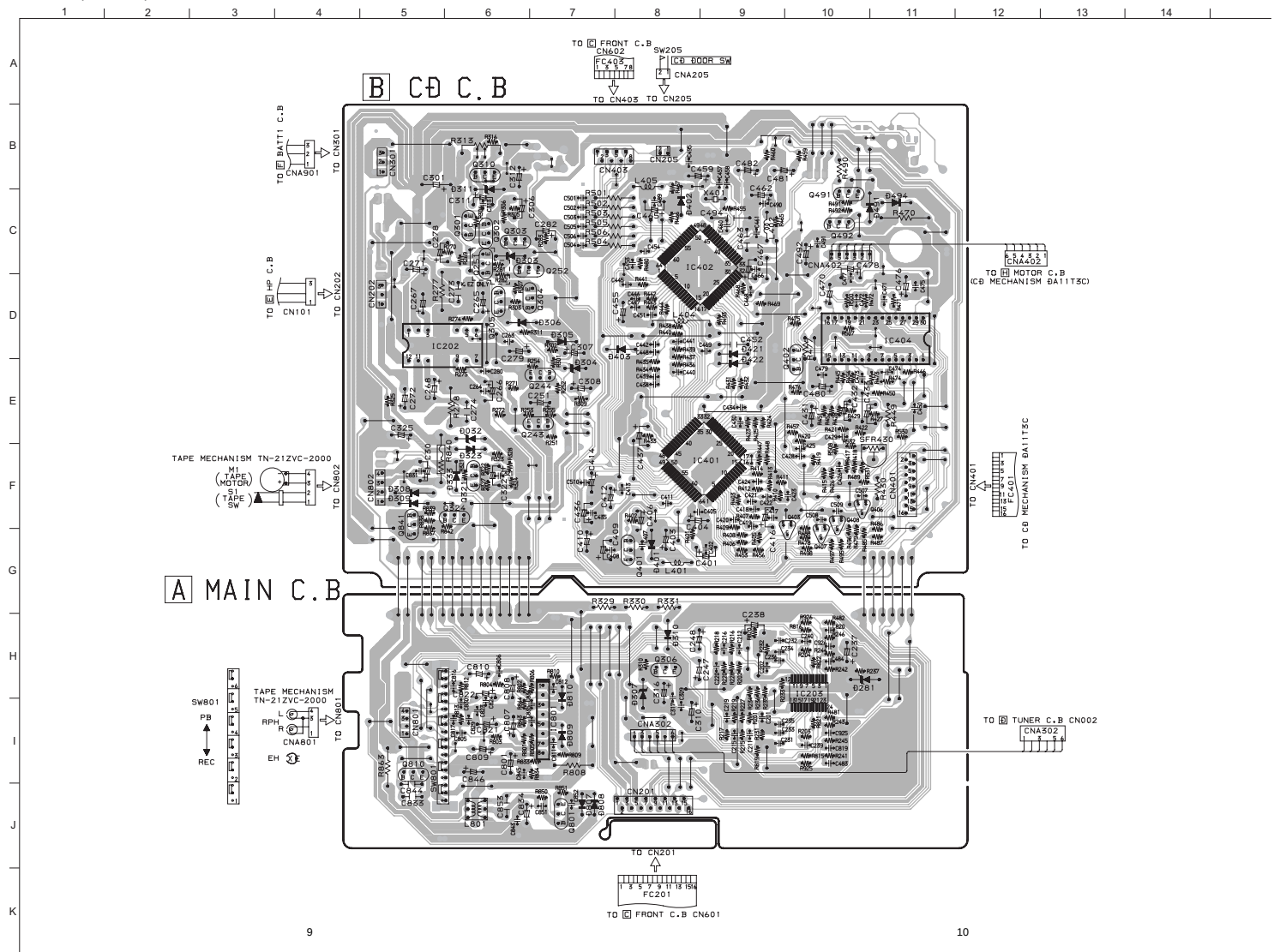
IC, BA4560N



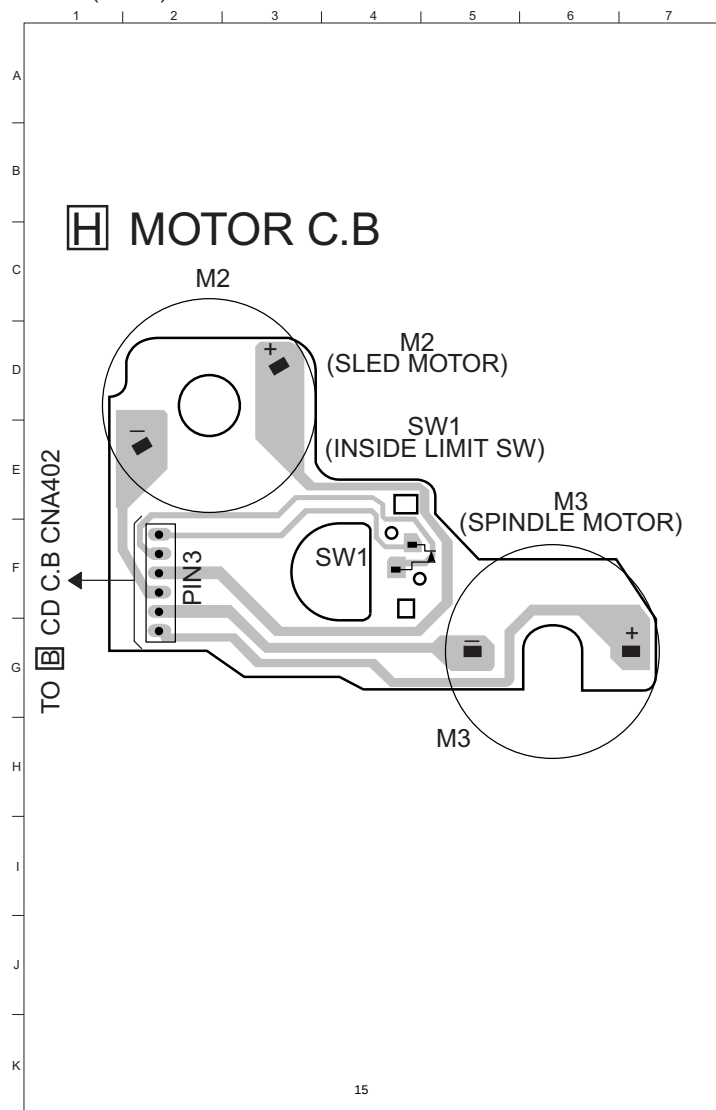
IC, M61509FP



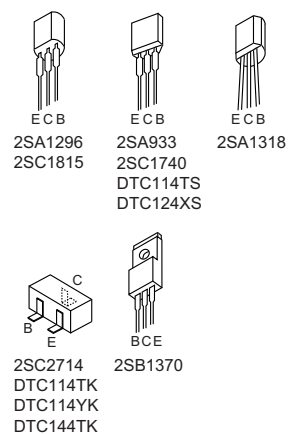
WIRING-1 (MAIN/CD)



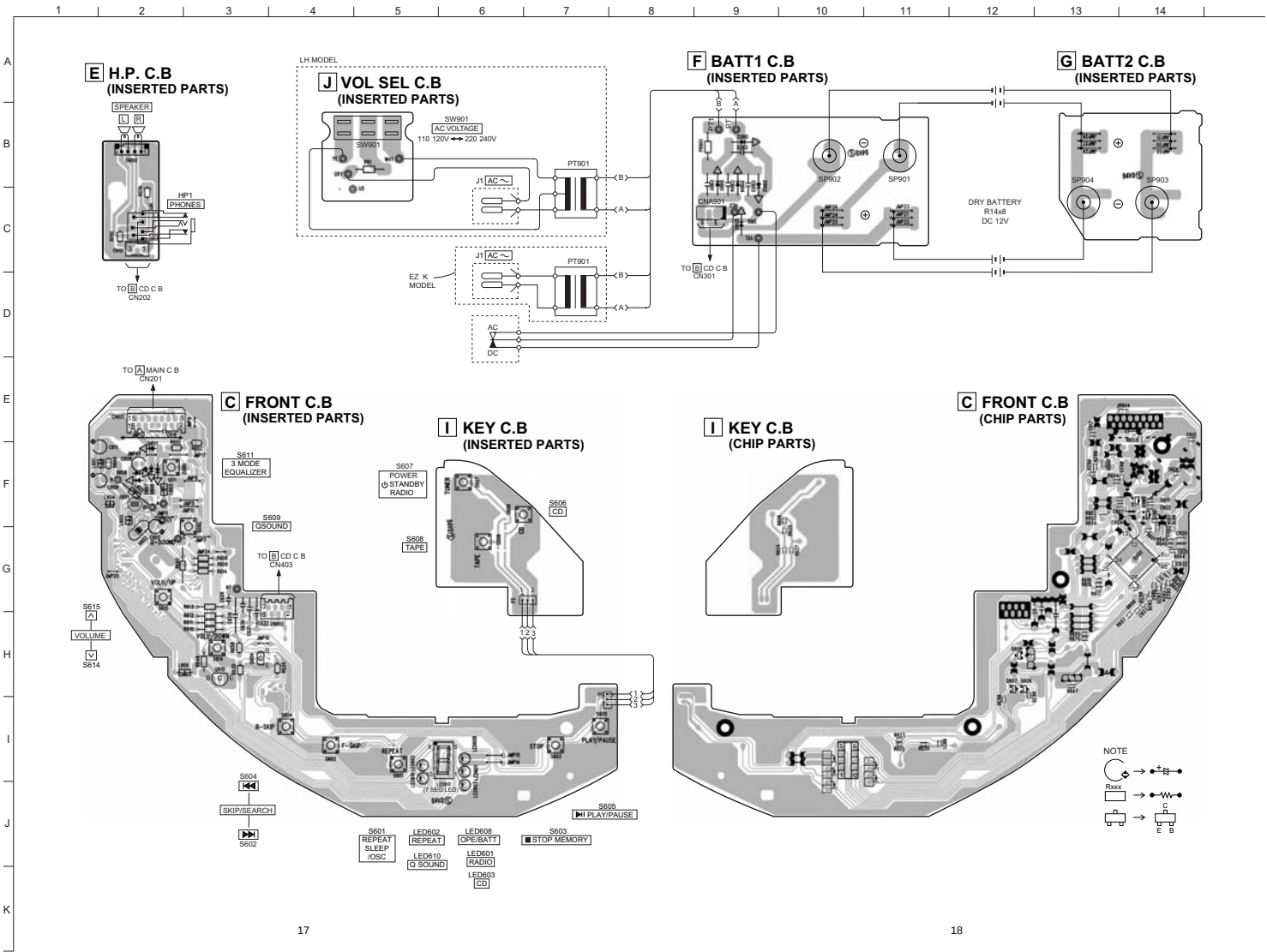
WIRING-2 (MOTOR)



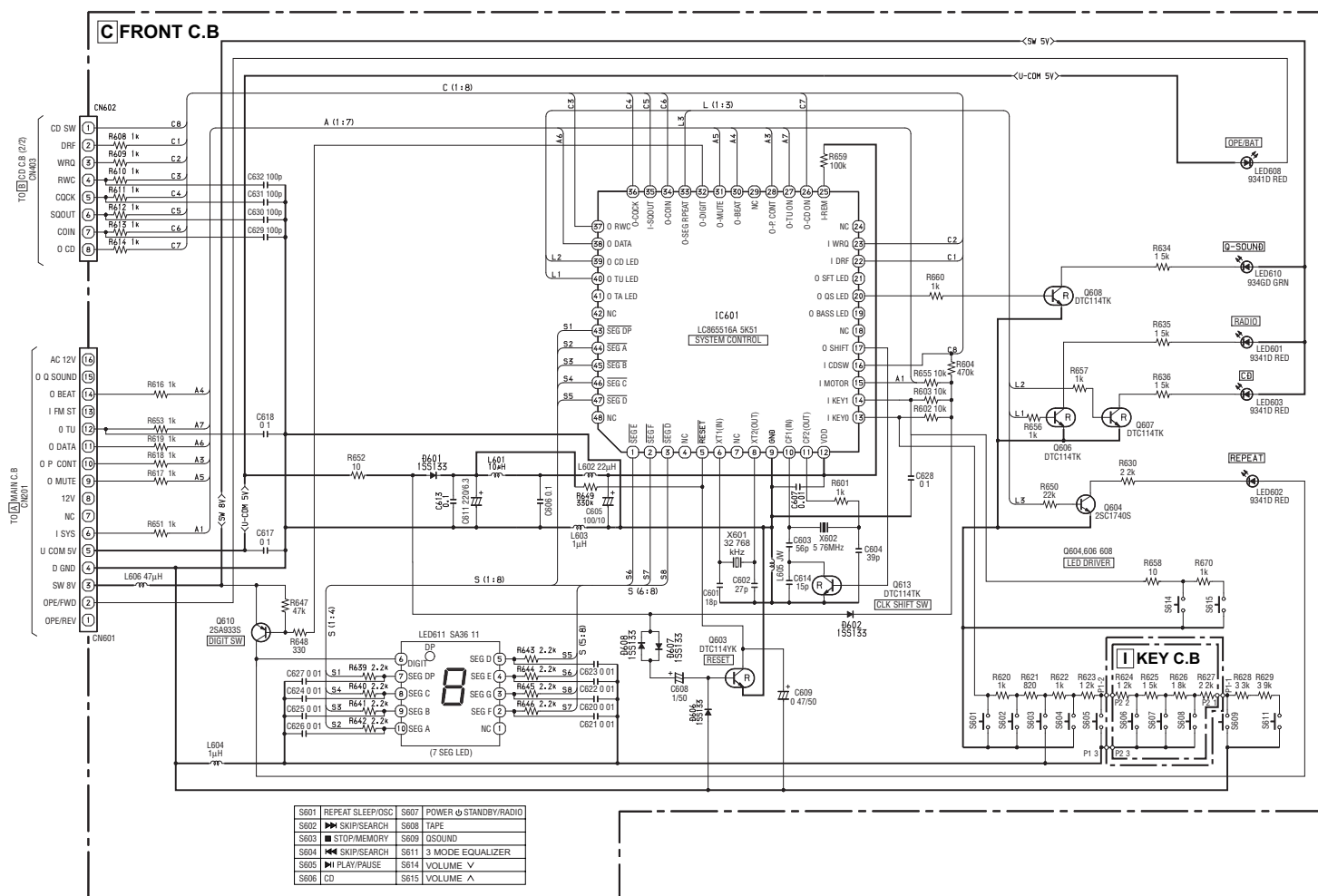
TRANSISTOR ILLUSTRATION



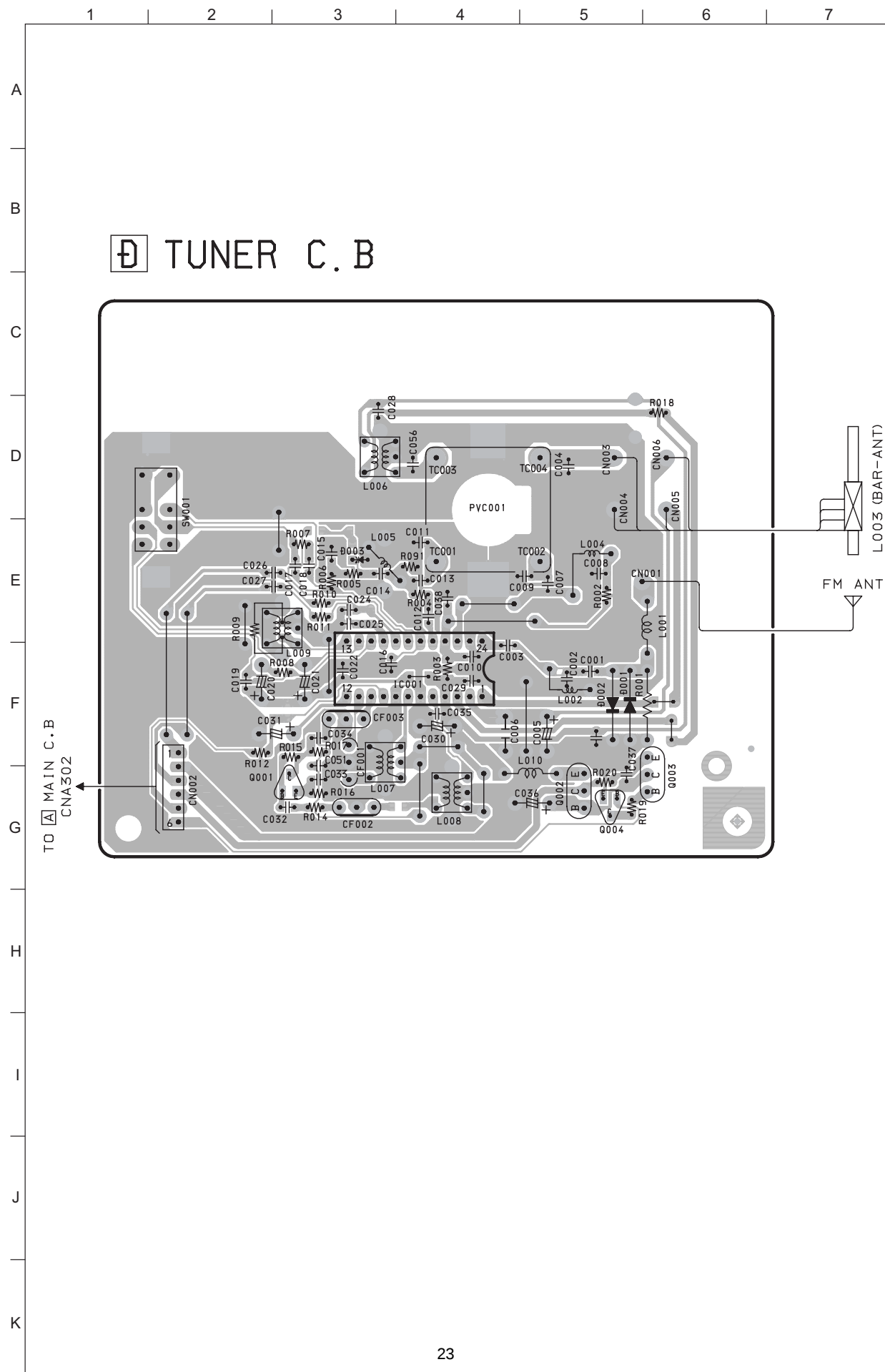
WIRING-3 (FRONT/HP/BATT1/BATT2/KEY)



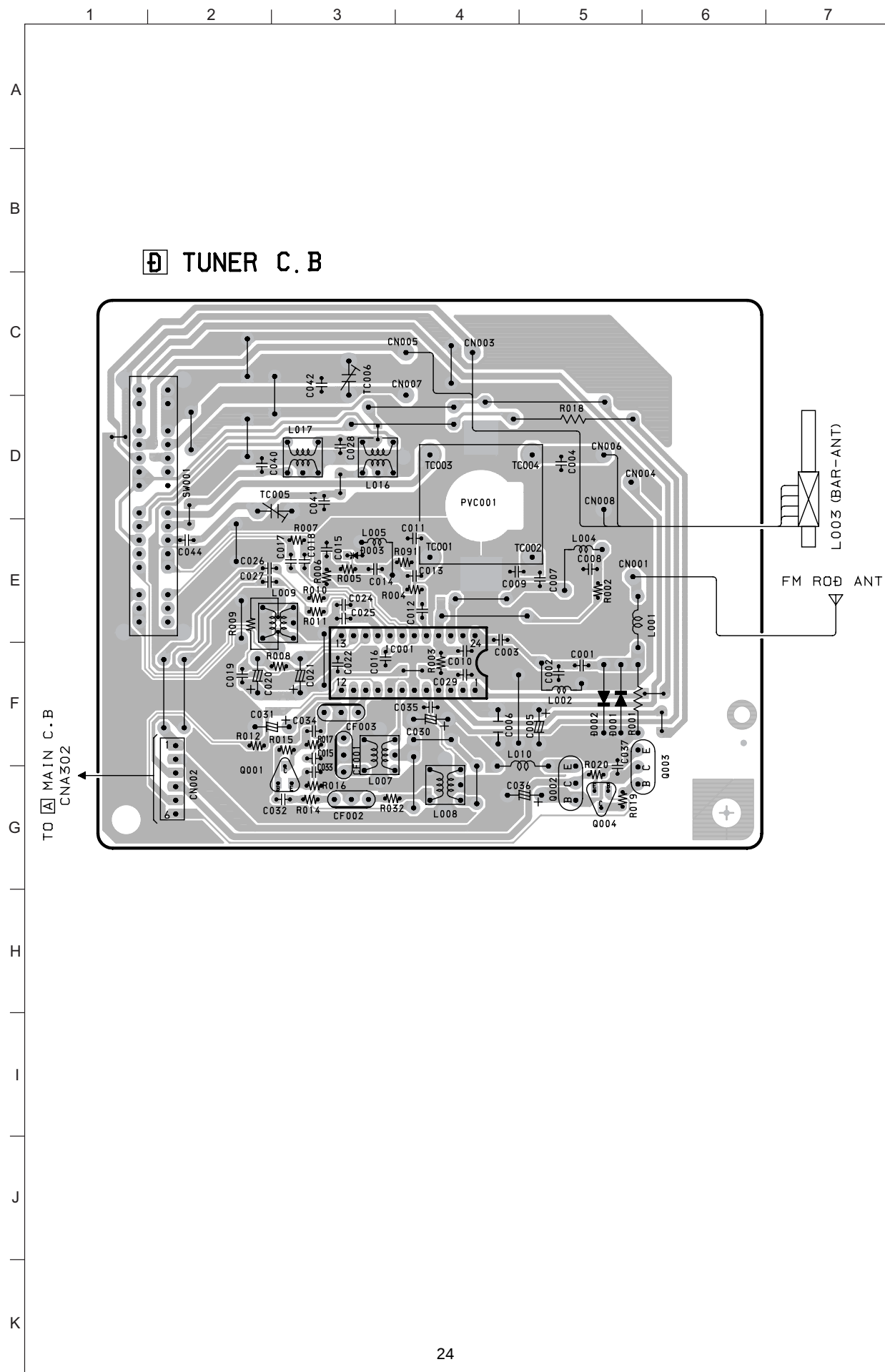
SCHEMATIC DIAGRAM-3 (FRONT/KEY)



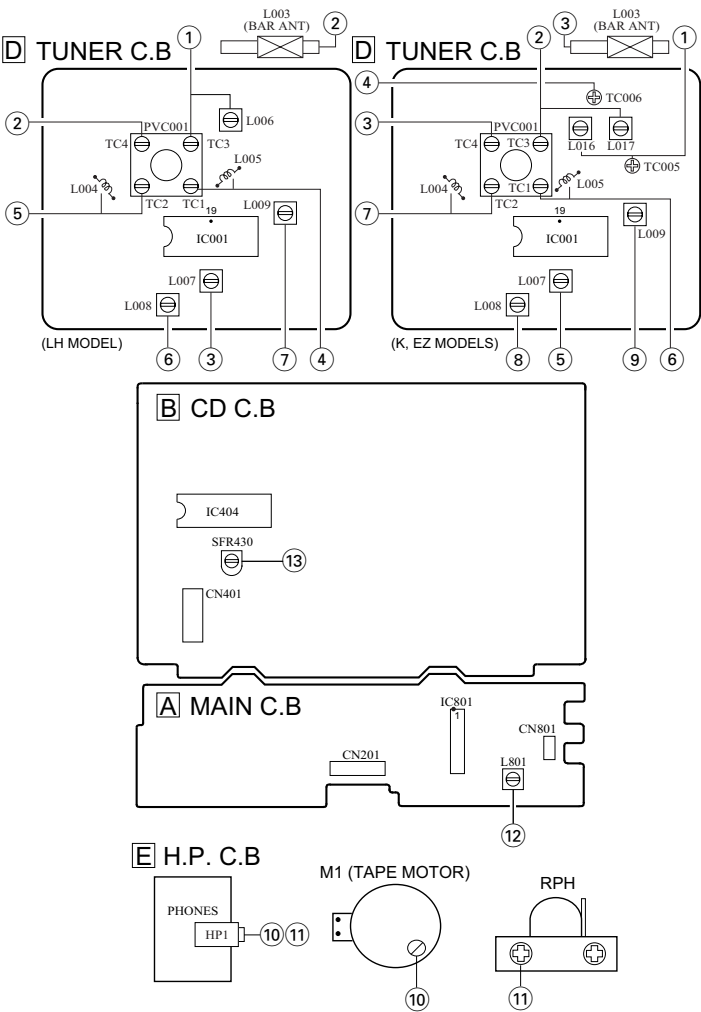
WIRING-4 (TUNER: LH)



WIRING-5 (TUNER: K, EZ)



ELECTRICAL ADJUSTMENT



< TUNER SECTION >

(LH MODEL)

1. AM Freq. Range Adjustment
L006 517kHz
TC003..... 1750kHz
2. AM Tracking Adjustment
L003 600kHz
TC004..... 1400kHz
3. AM IF Adjustment
Settings: • Test point: IC001 (LA1828) 19PIN
• Adjustment location: L007
Method: Adjust L007 so that the output level at 1400kHz becomes maximum.
4. FM Freq. Range Adjustment
L005 87.0MHz
TC001 109.0MHz
5. FM Tracking Adjustment
L004 88.0MHz
TC002 108.0MHz
6. 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.
7. 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.

(K, EZ MODELS)

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.

< DECK SECTION >

10. Tape Speed Adjustment
Settings: • Test tape : TTA-100
• Test point : J251 (PHONES jack)
• Adjustment location : SFR of deck motor
Method: Play back the test tape and adjust SFR so that the frequency counter reads 3000Hz±30Hz.
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
L801..... 85kHz±0.5kHz

< CD SECTION >

13. FE Balance Adjustment
Settings: • Test point : IC401 PIN58 (VR), IC401 PIN 20 (FE)
• Adjustment location : SFR430
Method: Playback the disc and adjust SFR430 so that the test point voltage becomes 0V.

PRACTICAL SERVICE FIGURE

< TUNER SECTION >

< FM SECTION >

Sensitivity: (THD 3%)	Less than 19dB (88.0MHz) Less than 18dB (98.0MHz) Less than 18dB (108.0MHz)
Signal to Noise Ratio: (Input 60dB)	LH MODEL: More than 57dB (at 98.0MHz) K, EZ MODELS: More than 50dB (at 98.0MHz)
Distortion: (Input 60dB)	Less than 1.5% (at 98.0MHz)
Intermediate frequency:	10.7MHz $\pm$ 0.1MHz
Stereo separation:	More than 22dB (at 98MHz)

< AM/MW SECTION >

Sensitivity: (S/N 10dB)	Less than 45dB (at 600kHz) Less than 45dB (at 1000kHz) Less than 45dB (at 1400kHz)
Distortion: (Input 74dB)	Less than 3.0%
Intermediate frequency:	455kHz $\pm$ 3.5kHz

< LW SECTION > (K, EZ MODELS)

Sensitivity: (S/N 10dB)	Less than 57dB (at 153/198/288kHz)
Signal to Noise Ratio: (Input 74dB)	More than 24dB (at 198kHz)
Distortion: (Input: 74/120dB)	Less than 3% (at 198kHz)

< CASSETTE SECTION >

Tape speed:	3000Hz+3%-2%
Wow & flutter:	Less than 0.35% (JIS RMS)
S/N ratio:	More than 35dB
Distortion:	Less than 3.0% (PB)
Noise (PB):	Less than 1mV (DC, MIN) Less than 1.2mV (AC, MIN)
Erasing Ratio (W/O FILTER):	More than 45dB

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	ISSET	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	CONT3 (NC)	—	Not connected.	
27	PUIN	I	CD pickup inner switch detection.	
28	RW	O	Read, write signal.	
29	EMPH	O	De-emphasis monitor output pin. De-emphasis disc is being played back at H.	
30	C2F	O	C2 flag output pin.	
31	DOUT	O	DIGITAL OUT output pin. (EIAJ format).	
32, 33	T3, T4	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.	
34	N.C.	—	Not used. Set the pin to open.	
35	MUTEL	O	L-channel 1-bit DAC.	L-channel mute output pin.
36	LVDD	—		L-channel power supply pin.
37	LCHO	O		L-channel output pin.
38	LVSS	—		L-channel GND. Be sure to connect to 0V.
39	RVSS	—	R-channel 1-bit DAC.	R-channel GND. Be sure to connect to 0V.
40	RCHO	O		R-channel output pin.
41	RVDD	—		R-channel power supply pin.
42	MUTER	O		R-channel mute output pin.

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

IC, LC865516A-5K51

Pin No.	Pin Name	I/O	Description
1	SEG E	O	SEG E control.
2	SEG F	O	SEG F control.
3	SEG G	O	SEG G control.
4	NC	—	Not connected.
5	RESET	I	Micro processor 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	GND	—	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 (+5V).
13	I-KEY0	I	Key AD input. (AD)
14	I-KEY1	I	Key AD input. (AD)
15	I-MOTOR	I	Deck status input. (AD)
16	I-CD SW	I	CD door switch status input.
17	O-SHIFT	O	Main clock shift output.
18	NC	—	Not connected.
19	O-BASS LED	O	BASS LED ON/OFF control output. (Not connected)
20	O-QS LED	O	Q sound LED ON/OFF control output. (Not connected)
21	O-SFT LED	—	Not connected.
22	I-DRF	I	CD RF level detection input.
23	I-WRQ	I	CD subcode Q standby input.
24	NC	—	Not connected.
25	I-REM	—	Remote control input.
26	O-CD ON	O	CD power control output.
27	O-TU ON	O	TU power control output.
28	O-P.CONT	O	The main power supply control output.
29	NC	—	Not connected.
30	O-BEAT	O	Beat control.
31	O-MUTE	O	Main mute output.
32	O-DIGIT	O	7-segment LED power supply control output.
33	O-SEG RPEAT	O	REPEAT LED ON/OFF control output.
34	O-COIN	O	CD command output.
35	I-SQOUT	I	CD subcode Q input.
36	O-CQCK	O	CD command/CLK for subcode.
37	O-RWC	O	CD read/write control output.
38	O-DATA	O	Data output to M62349FP.
39	O-CD LED	O	LED ON/OFF control output for the CD function.
40	O-TU LED	O	LED ON/OFF control output for the TU function.
41	O-TA LED	O	LED ON/OFF control output for the TA function. (Not connected)

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.

MECHANICAL PARTS LIST 1/1

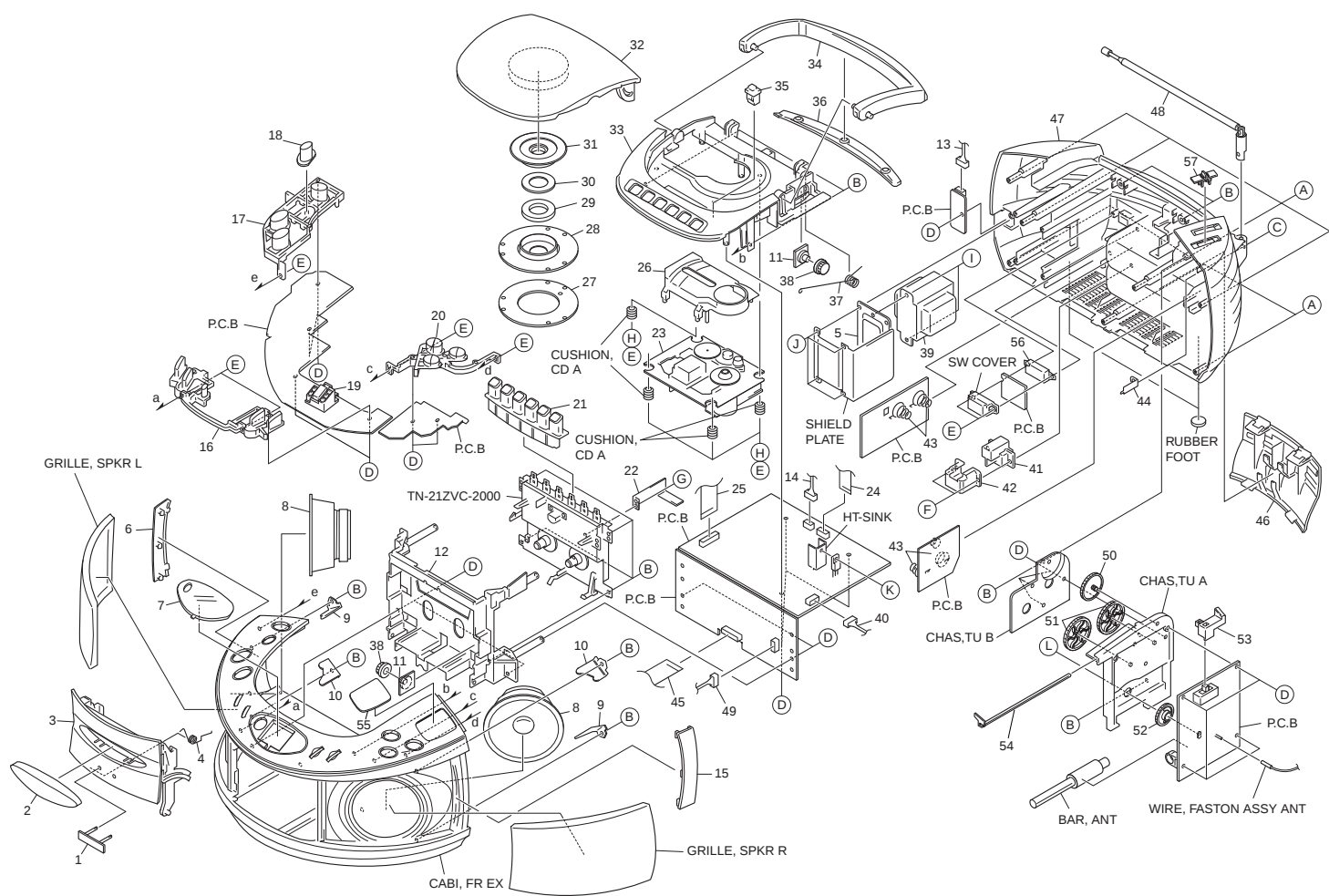
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
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REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-CL7-107-010		BADGE,AIWA SILVER	40	8A-CD9-630-010		CONN ASSY,4P RPH
2	8A-CD8-007-010		WINDOW,CASS	41	87-A60-178-010		JACK,AC E W/SW
3	8A-CD8-006-010		BOX,CASS	42	87-A90-086-010		COVER,AC-SOCKET
4	8A-CD8-207-010		SPR-T,CASS	43	88-CD8-209-010		SPR-C,BATT
5	8A-CD8-209-010		HLDR,TRANS	44	8A-CD8-212-010		HLDR,ANT
6	8A-CD8-018-010		PANEL,FR L	45	8A-CD9-620-010		FF-CABLE, 16P FR-MAIN
7	8A-CD8-043-010		WINDOW,DISPLAY EX	46	8A-CD8-003-010		LID,BATT
8	88-CD8-622-010		SPKR,F 77 7OHM 3W	47	8A-CD8-026-010		CABI,REAR EZ<K<S>,EZ<S>>
9	8A-CD8-210-010		HLDR,SPKR A	47	8A-CD8-024-010		CABI,REAR U<LH<S>,519LH1J<S>>
10	8A-CD8-211-010		HLDR,SPKR B	48	8Z-CH4-640-010		ANT,ROD
11	84-CD5-215-010		GEAR	49	8A-CD9-631-010		CONN ASSY,4P TP-ME
12	8A-CD8-021-010		CHAS,CASS	50	8A-CD8-012-010		KNOB,RTRY TU
13	8A-CD9-633-010		CONN ASSY,4P SP	51	8A-CD8-201-010		GEAR,IDLER
14	8A-CD9-626-010		CONN ASSY,2P DOOR	52	8A-CD8-203-010		DRUM,DIAL
15	8A-CD8-022-010		PANEL,FR R	53	8A-CD8-202-010		LEVER,BAND
16	8A-CD8-016-010		KEY,CONTROL CD	54	8A-CD8-010-010		POINTER,TU
17	8A-CD8-014-010		KEY,VOL	55	8A-CD8-030-010		WINDOW,DIAL EZ<K<S>,EZ<S>>
18	8A-CD8-017-010		KEY,QSOUND	55	8A-CD8-029-010		WINDOW,DIAL U<LH<S>,519LH1J<S>>
19	8A-CD8-206-010		HLDR,LED	56	87-A91-369-010		SW,AC SL 2 2 2 SDKGA41700
20	8A-CD8-015-010		KEY,FUNC				<LH<S>,519LH1J<S>>
21	8A-CD8-011-010		KEY,CASS SET	57	8A-CD8-013-010		KNOB,SL BAND
22	8A-CD8-213-010		SPR-P,REC	A	87-B10-242-010		UT2+3-30 W/O CR
23	M8-ZZK-E90-070		DA11T3C	B	87-741-095-410		UT2+3-8 W/O SLOT
24	8A-CD9-622-010		FF-CABLE, 8P CD-FR	C	87-254-097-410		U+3-12 CR
25	8A-CD9-621-010		FF-CABLE, 16P CD-RF	D	87-741-095-410		UT2+3-8 GLD
26	8Z-CDB-169-010		PANEL,CD SANYO	E	87-342-074-010		UT2+2.6-8
27	88-CD9-211-210		RING,CHUCK	F	87-353-076-210		VT2+2.6-12
28	8Z-CDB-170-010		BASE,CHUCK	G	87-571-032-410		VIT+2-3
29	87-036-368-010		MAGNET	H	87-WA5-253-010		W,3.3-10-0.8
30	84-CT5-209-010		PLATE,MAGNET	I	87-751-094-410		VT2+3-6 W10SL0T
31	8Z-CH4-225-010		HLDR, CHUCK A(S)	J	87-661-097-410		TAPPING SCREW, VFT1+3-12
32	8A-CD8-027-010		BOX,CD EX	K	87-067-566-010		TAPPING SCREW, VFTT+3-6
33	8A-CD8-028-010		CHAS,CD EX	L	87-501-073-410		VF+2.6-6
34	8A-CD8-008-010		HANDL,FR				
35	87-036-389-010		SW,PUSH LOCK				
36	8A-CD8-009-010		HANDL,REAR				
37	8A-CD8-208-010		SPR-T,CD				
38	84-CD5-216-010		BRACKET				
39	8A-CD8-603-010		PT,E 2.5W<K<S>,EZ<S>>				
39	8A-CD8-604-010		PT,H 2.5W<LH<S>,519LH1J<S>>				

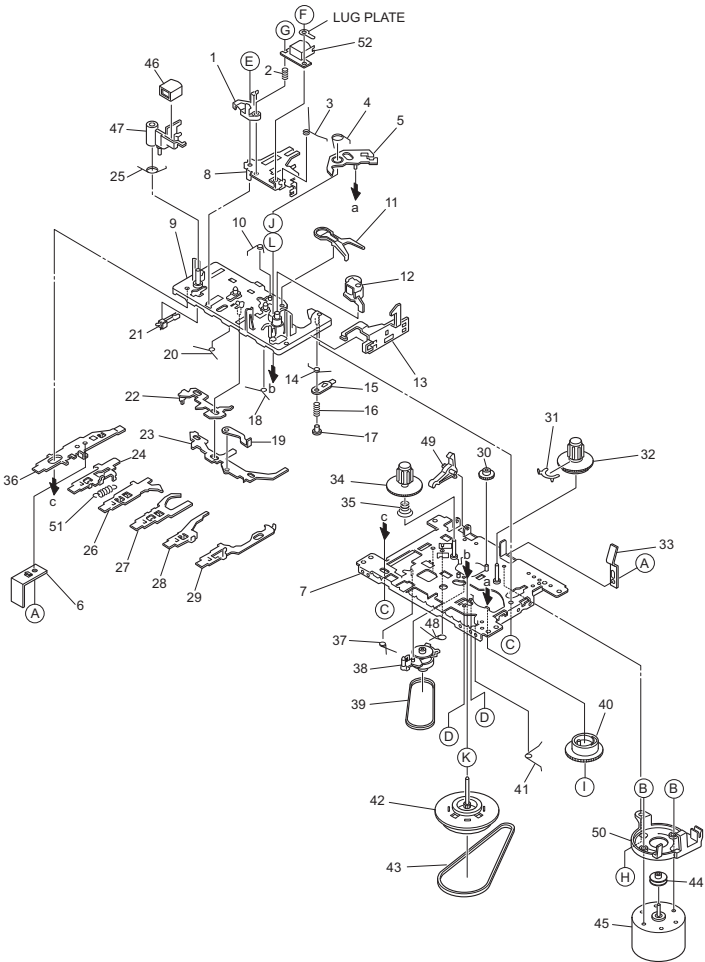
COLOR NAME TABLE

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		

MECHANICAL EXPLODED VIEW 1/1



TAPE MECHANISM EXPLODED VIEW 1/1

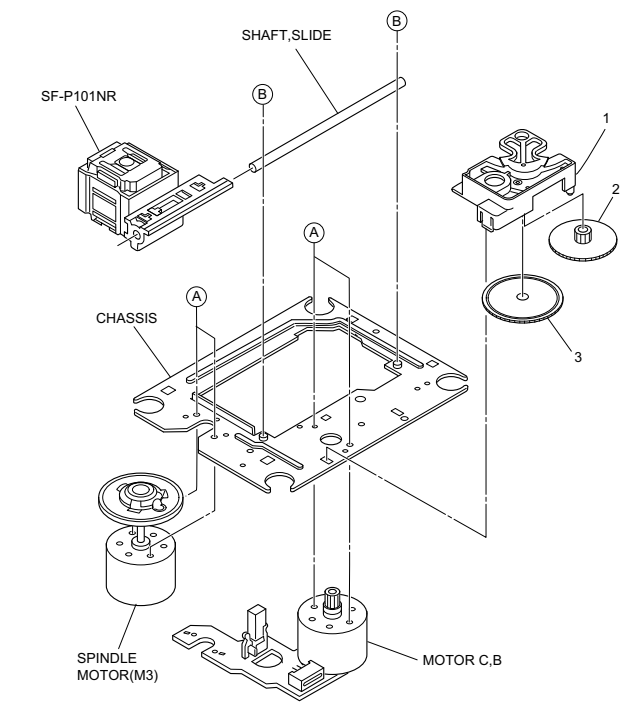


TAPE MECHANISM PARTS LIST 1/1

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

REF NO	PART NO	KANRI NO	DESCR PTION	REF NO	PART NO	KANRI NO	DESCR PTION
1	S1-921-030-4A0		HEAD BASE	36	S1-921-140-030		REC BUTTON LEVER
2	S1-821-030-070		ALIMUTH SPRING	37	S1-921-140-170		P.S. LEVER SPRING
3	S1-921-030-090		PANEL P SPRING	38	S1-921-070-040		RF CLUTCH ASSY
4	S1-921-260-050		GEAR PLATE SPRING	39	S1-921-070-030		RF BELT
5	S1-921-265-020		GEAR PLATE ASSY	40	S1-921-260-020		CAM GEAR
6	S1-510-020-020		REC SPRING PLATE	41	S1-921-140-160		E ACTUATOR SPRING
7	S1-921-015-010		CHASSIS ASSY	42	S1-921-093-210		FLYWHEEL ASSY
8	S1-921-030-110		HEAD PANEL	43	S1-921-090-380		MAIN BELT
9	S1-921-143-160		BASE ASSY	44	S1-921-120-590		MOTOR PULLEY
10	S1-921-141-8A0		M CONTROL SPRING	45	S6-002-030-220		MOTOR E0510AD-2B
11	S1-921-260-4A0		SENSING LEVER	46	S6-209-100-100		E HEAD PH-K380-MS1
12	S1-921-043-100		PINCH ROLLER ARM ASSY	47	S1-921-030-050		MG ARM
13	S1-921-130-010		EJECT SLIDE LEVER	48	S1-921-140-210		REC BUTTON LEVER SPRING
14	S1-921-141-3A0		P CONTROL SPRING	49	S1-921-100-690		RECORDED SAFETY LEVER
15	S1-921-140-550		PAUSE LEVER (E)	50	S1-821-128-9A0		MOTOR BRACKET
16	S1-921-140-120		PAUSE LEVER SPRING	51	S1-821-010-500		PLAY BUTTON LEVER SPRING
17	S1-921-140-110		PAUSE STOPPER	52	S6-201-011-110		HEAD, RP7442E5-0951
18	S1-921-140-150		BUTTON LEVER SPRING (B)	A	S9-P04-200-310		C TAPPING SCREW 2-3
19	S1-921-011-590		E KICK LEVER	B	S1-921-120-020		MOTOR COLLER SCREW
20	S1-921-141-070		BUTTON LEVER SPRING (A)	C	S9-B10-200-510		P TAPPING BIND SCREW M2-5
21	S6-401-011-490		LEAF SW MSW-1541T	D	S9-C07-204-510		SCREW, TAPPING (CAMERA) M2-4.5
22	S1-921-140-090		SWITCH ACTUATOR	E	S9-P01-200-610		SCREW, M2-6
23	S1-921-140-080		PUSH BUTTON ACTUATOR	F	S9-B01-200-310		(+) BIND SCREW M2-3
24	S1-921-140-190		PLAY BUTTON LEVER	G	S9-P08-200-710		AZIMUTH SCREW M2-7
25	S1-921-030-100		MG ARM SPRING	H	S1-921-120-030		MB SCREW
26	S1-921-140-040		REW BUTTON LEVER	I	S9-W02-300-100		P WASHER CUT 1.2-3.8-0.3
27	S1-921-140-050		FF BUTTON REVER	J	S9-W02-500-100		P WASHER CUT 1.45-3.8-0.5
28	S1-921-140-060		STOP BUTTON LEVER	K	S9-W01-400-100		P WASHER 2-3.5-0.4
29	S1-921-140-600		PAUSE BUTTON LEVER	L	S9-W01-130-200		P WASHER 2.1-4-0.13
30	S1-821-100-700		FF GEAR				
31	S1-921-050-060		SENER				
32	S1-921-053-100		TAKE UP REEL ASSY				
33	S1-829-100-010		PACK SPRING				
34	S1-921-050-150		S REEL HUB				
35	S1-921-050-220		BACK TENSION SPRING				

CD MECHANISM EXPLODED VIEW 1/1



CD MECHANISM PARTS LIST 1/1

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-PW2-03R-08B		SCR PAN PCS 2-3
B	87-261-073-410		SCR S-TPG FLT 2.6-6
ALL	M8-ZZK-E90-070		DA1173C

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-CD8-906-010		IB, EE (9L) B<EE<S>>
1	8A-CD8-905-010		IB, K (R) B<K<S>>
1	8A-CD8-902-010		IB, LH (SS) B<LH<S>>
1	8A-CD8-940-010		IB, LH1 (P) KIT<519LH1J<S>>
2	87-A80-016-010		AC CORD SET ASSY, E W/FLTR VOL<EXCEPT K<S>>
2	87-A80-014-010		AC CORD SET ASSY, K W/F MAY-BG<K<S>>
3	87-A90-112-010		PLUG, CONVERSION WTN-1157R1<LH<S>, 519LH1J<S>>

REFERENCE NAME LIST

ELECTRICAL SECTION

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

MECHANICAL SECTION

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

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