

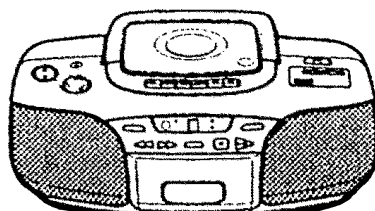


CSD-A170 U(S),K(S),HA(S)

CSD-A110 EZ(S,L),HR(S)

CSD-A100 K(S),EZ(S,L,P)
,HE(S),HT(S)

CSD-A99 K(S)



SERVICE MANUAL

COMPACT DISC RADIO
CASSETTE RECORDER

BASIC TAPE MECHANISM : ZZM-1 YR2NF
BASIC CD MECHANISM : DA11T3C

This Service Manual is the "Revision Publishing" and replaces "Simple Manual"
CSD-A100 K(S),EZ(S)/A110 EZ(S)/A170 K(S)(S/M Code No. 09-003-342-2T2)
CSD-A170 U(S),HA(S)/A110 EZ(L),HR(S)/A100 HE(S),HT(S),EZ(L,P)/A99 K(S)
(S/M Code No. 09-003-342-2T4).

aiwa
S/M Code No. 09-003-342-2R2

REVISION
DATA

SPECIFICATIONS

HR, HE MODELS

Tuner section

Frequency range, antenna — FM: 87.5 - 108.0 MHz Rod antenna,
AM: 530 - 1,605 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 — 100 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 — 420
(W) × 185 (H) × 250 (D) mm / Weight — 3.45 kg (excluding batteries)

- Design and specifications are subject to change without notice.

K, EZ MODELS

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 — 100 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 — 420 (W) × 185 (H) × 250 (D) mm /
Weight — 3.45 kg (excluding batteries)

- Design and specifications are subject to change without notice.

HA MODEL

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 — 100 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 — 420 (W) × 185 (H) × 250 (D) mm / Weight — 3.45 kg
(excluding batteries)

- Design and specifications are subject to change without notice.

U MODEL

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 — 100 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%) /
Power requirements — DC 12 V using eight size C (R14) batteries, AC
120 V, 60 Hz / Power consumption — 15 W / Dimensions — 420 (W) ×
185 (H) × 250 (D) mm (16⁵/₈ × 7³/₈ × 9⁷/₈ in.) / Weight — 3.45 kg (7 lbs.
10 oz.) (excluding batteries)

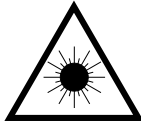
- Design and specifications are subject to change without notice.

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

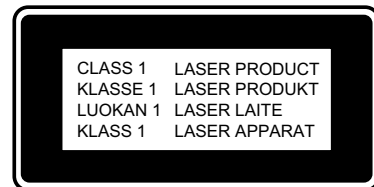
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.

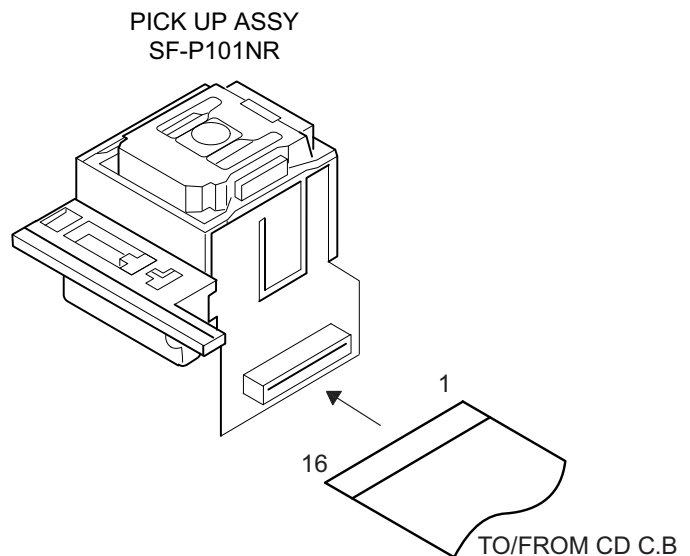
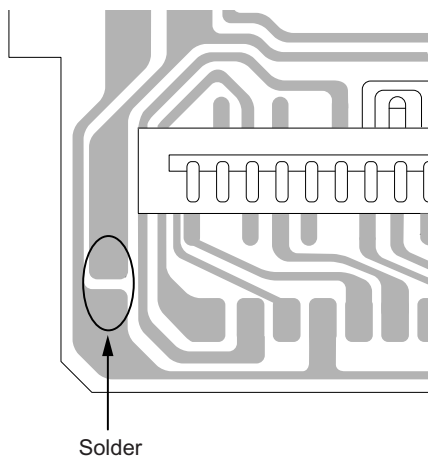
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



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.



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".

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REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C406	87-010-374-080	CAP, ELECT	47-10V	C494	87-010-197-080	CAP, CHIP	0.01 DM
C407	87-010-178-080	CHIP CAP	1000P	C501	87-012-368-080	C-CAP,S	0.1-50 F
C408	87-010-198-080	CAP, CHIP	0.022	C502	87-010-322-080	C-CAP,S	100P-50 CH
C409	87-010-248-080	CAP, ELECT	220-10V	C503	87-010-322-080	C-CAP,S	100P-50 CH
C410	87-010-263-080	CAP, ELECT	100-10V	C504	87-010-322-080	C-CAP,S	100P-50 CH
C411	87-A11-177-080	C-CAP,S	0.15-16 K B	C505	87-010-322-080	C-CAP,S	100P-50 CH
C412	87-010-401-080	CAP, ELECT	1-50V	C506	87-010-322-080	C-CAP,S	100P-50 CH
C413	87-016-369-080	C-CAP,S	0.033-25 B K	C510	87-016-669-080	C-CAP,S	0.1-25 K B
C414	87-010-405-080	CAP, ELECT	10-50V	C831	87-010-198-080	CAP, CHIP	0.022
C416	87-010-545-080	CAP, ELECT	0.22-50V	CN202	8A-CH4-689-010	CONN,3P	V 2.5
C417	87-012-157-080	C-CAP,S	330P-50 CH	CN205	87-A60-109-010	CONN,2P	V S2M-2W
C418	87-010-213-080	C-CAP,S	0.015-50 B	CN301	8A-CH4-689-010	CONN,3P	V 2.5
C419	87-A11-608-080	C-CAP,S	0.33-25 K B	CN401	87-A60-424-010	CONN,16P	V TOC-B
C420	87-016-369-080	C-CAP,S	0.033-25 B K	CN403	87-099-201-010	CONN,8P	6216 H
C421	87-A11-177-080	C-CAP,S	0.15-16 K B	CN802	8A-CH4-687-010	CONN,4P	V 2.5
C422	87-010-184-080	CHIP CAPACITOR	3300P(K)	CNA402	8A-CDA-625-010	CONN ASSY,6P	CD-ME
C423	87-010-992-080	C-CAP,S	0.047-25 B	L401	87-003-102-080	COIL, 10UH	
C425	87-010-176-080	C-CAP,S	680P-50 SL	L404	87-003-152-080	COIL, 100UH	
C426	87-A11-608-080	C-CAP,S	0.33-25 K B	▲R840	87-029-124-010	RES,FUSE	2.2-1/4
C428	87-010-197-080	CAP, CHIP	0.01 DM	SFR430	87-024-437-080	SFR100K,RH063EC	
C429	87-010-186-080	CAP,CHIP	4700P	X401	8Z-CD5-633-010	VIB, CER16.93MHZ	FCR16.93M2
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	FRONT C.B			
C433	87-010-401-080	CAP, ELECT	1-50V				
C434	87-010-184-080	CHIP CAPACITOR	3300P(K)	C601	87-010-313-080	CAP, CHIP	18P
C435	87-010-197-080	CAP, CHIP	0.01 DM	C602	87-010-315-080	C-CAP,S	27P-50 CH
C436	87-010-374-080	CAP, ELECT	47-10V	C603	87-010-319-080	C-CAP,S	56P-50 CH
C437	87-010-404-080	CAP, ELECT	4.7-50V	C604	87-010-317-010	CHIP CAP,S	39P CH
C438	87-016-669-080	C-CAP,S	0.1-25 K B	C605	87-010-264-040	CAP,E	100-10 5L
C439	87-010-178-080	CHIP CAP	1000P	C606	87-012-368-080	C-CAP,S	0.1-50 F
C440	87-010-145-080	C-CAP,S	1P-50 CH	C607	87-015-779-010	CHIP CAPACITOR, 0.01	
C441	87-010-197-080	CAP, CHIP	0.01 DM	C608	87-010-415-080	CAP ELE SRE	10-50V
C442	87-010-313-080	CAP, CHIP	18P	C609	87-010-493-080	CAP,E	0.47-50 GAS
C445	87-012-368-080	C-CAP,S	0.1-50 F	C610	87-010-178-080	CHIP CAP	1000P
C446	87-012-368-080	C-CAP,S	0.1-50 F				<170U(S),170K(S),170HA(S)>
C447	87-012-368-080	C-CAP,S	0.1-50 F	C611	87-A10-189-040	CAP,E	220-10
C448	87-010-315-080	C-CAP,S	27P-50 CH	C612	87-010-415-080	CAP ELE SRE	10-50V
C450	87-012-140-080	CAP 470P					<170U(S),170K(S),170HA(S)>
C451	87-012-156-080	C-CAP,S	220P-50 CH	C613	87-012-368-080	C-CAP,S	0.1-50 F
C455	87-010-247-080	CAP, ELECT	100-50V	C614	87-010-312-080	C-CAP,S	15P-50 CH
C457	87-010-312-080	C-CAP,S	15P-50 CH	C627	87-015-779-010	CHIP CAPACITOR, 0.01	
C458	87-010-312-080	C-CAP,S	15P-50 CH	C628	87-015-779-010	CHIP CAPACITOR, 0.01	
C459	87-010-263-080	CAP, ELECT	100-10V	C629	87-015-779-010	CHIP CAPACITOR, 0.01	
C460	87-015-819-080	CAPACITOR,0.01		C630	87-010-264-040	CAP,E	100-10 5L
C461	87-010-197-080	CAP, CHIP	0.01 DM	C631	87-015-779-010	CHIP CAPACITOR, 0.01	
C462	87-010-248-080	CAP, ELECT	220-10V	CN601	87-099-757-010	CONN,16P	9604S F
C463	87-010-197-080	CAP, CHIP	0.01 DM	CN602	87-A60-079-010	CONN,08P	H 9604S-08F
C465	87-010-404-080	CAP, ELECT	4.7-50V	CNA604	8A-CDA-623-010	CONN ASSY,7P	KEY
C466	87-012-368-080	C-CAP,S	0.1-50 F	JW603	87-008-372-080	FILTER, EMI	BL OIRNI
C467	87-010-263-080	CAP, ELECT	100-10V	JW605	87-003-097-080	COIL,1UH	
C469	87-012-154-080	C-CAP,S	150P-50 CH	JW606	87-003-097-080	COIL,1UH	
C470	87-010-544-080	CAP, ELECT	0.1-50V	JW608	87-003-097-080	COIL,1UH	
C471	87-015-785-080	CHIP CAPACITOR, 0.1FZ-25Z		JW627	87-008-372-080	FILTER, EMI	BL OIRNI
C472	87-015-785-080	CHIP CAPACITOR, 0.1FZ-25Z		JW633	87-003-098-080	COIL,2.2UH	
C473	87-015-785-080	CHIP CAPACITOR, 0.1FZ-25Z		L601	87-003-098-080	COIL,2.2UH	
C474	87-015-785-080	CHIP CAPACITOR, 0.1FZ-25Z		LED602	88-CD6-630-010	LED,934ID	RED
C475	87-010-197-080	CAP, CHIP	0.01 DM	LED608	88-CD6-630-010	LED,934ID	RED
C476	87-010-236-080	CAP,E	1000-10 SME	LED610	88-CD6-631-010	LED,934GD	GRN
C477	87-010-197-080	CAP, CHIP	0.01 DM				<110HRJ(S),110EZ(S),110EZ(L),170U(S),170K(S),170HA(S)>
C478	87-010-263-080	CAP, ELECT	100-10V	LED611	87-CD8-616-010	LED,SA36-11	HWA-11.0
C479	87-010-197-080	CAP, CHIP	0.01 DM	S601	87-A91-704-080	SW,TACT	EVQ 214 05R
C480	87-010-221-080	CAP, ELECT	470-10V	S602	87-A91-704-080	SW,TACT	EVQ 214 05R
C481	87-010-405-080	CAP, ELECT	10-50V	S603	87-A91-704-080	SW,TACT	EVQ 214 05R
C482	87-010-405-080	CAP, ELECT	10-50V	S604	87-A91-704-080	SW,TACT	EVQ 214 05R
C489	87-012-368-080	C-CAP,S	0.1-50 F	S605	87-A91-704-080	SW,TACT	EVQ 214 05R
C490	87-012-368-080	C-CAP,S	0.1-50 F	S609	87-A91-704-080	SW,TACT	EVQ 214 05R
C491	87-010-197-080	CAP, CHIP	0.01 DM				<110HRJ(S),110EZ(S),110EZ(L),170U(S),170K(S),170HA(S)>
C492	87-010-221-080	CAP, ELECT	470-10V	S611	87-A91-704-080	SW,TACT	EVQ 214 05R
C493	87-010-180-080	C-CER	1500P<170U(S)>	X601	87-030-273-010	VIB,XTAL	32.768K5PPM
				X602	87-030-376-080	VIB,CER	CSA5.76MG200

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
TUNER C.B			
C1	87-010-314-080	C-CAP,S 22P-50V	
C2	87-010-316-080	C-CAP,S 33P-50 CH	
C3	87-010-314-080	C-CAP,S 22P-50V	
C4	87-010-148-080	CAP, CHIP S 4P SL	
C5	87-010-378-080	<110HRJ(S),100HRJ(S),170U(S),170HA(S)> CAP, ELECT 10-16V	
C7	87-012-156-080	C-CAP,S 220P-50 CH	
C8	87-010-197-080	CAP, CHIP 0.01 DM	
C9	87-010-311-080	CAP 12P	
C10	87-010-197-080	CAP, CHIP S 0.01 DM	
C11	87-010-152-080	C-CAP,S 8P-50 CH	
C12	87-010-314-080	C-CAP,S 22P-50V	
C13	87-010-322-080	C-CAP,S 100P-50 CH	
C14	87-010-148-080	CAP, CHIP S 4P SL	
C15	87-016-669-080	C-CAP,S 0.1-25 K B	
C16	87-010-178-080	CHIP CAP 1000P	
C17	87-016-669-080	C-CAP,S 0.1-25 K B	
C18	87-010-198-080	CAP, CHIP 0.022	
C19	87-016-669-080	C-CAP,S 0.1-25 K B	
C20	87-010-400-080	CAP, ELECT 0.47-50V	
C21	87-010-403-080	CAP, ELECT 3.3-50V	
C22	87-010-197-080	CAP, CHIP 0.01 DM	
C24	87-010-197-080	CAP, CHIP 0.01 DM	
C25	87-010-197-080	CAP, CHIP 0.01 DM	
C26	87-012-358-080	C-CAP,S 0.47-10 F Z	
C27	87-012-358-080	C-CAP,S 0.47-10 F Z	
C28	87-010-992-080	C-CAP,S 0.047-25 B	
C29	87-010-992-080	C-CAP,S 0.047-25 B	
C30	87-010-248-080	CAP, ELECT 220-10V	
C31	87-010-379-080	CAP, ELECT 22-16V	
C32	87-010-197-080	CAP, CHIP 0.01 DM	
C33	87-010-197-080	CAP, CHIP 0.01 DM	
C34	87-010-197-080	CAP, CHIP 0.01 DM	
C35	87-010-197-080	CAP, CHIP 0.01 DM	
C36	87-010-263-080	CAP, ELECT 100-10V	
C37	87-010-197-080	CAP, CHIP 0.01 DM	
C38	87-010-197-080	CAP, CHIP 0.01 DM	
C39	87-010-197-080	CAP, CHIP 0.01 DM	
C40	87-010-150-080	<110HRJ(S),100HRJ(S),170U(S),170HA(S)> C-CAP,S 6P-50 CH	
C41	87-010-321-080	<EXCEPT 110HRJ(S),100HRJ(S),170U(S),170HA(S)> CHIP CAPACITOR,82P(J)	
C42	87-010-150-080	<EXCEPT 110HRJ(S),100HRJ(S),170U(S),170HA(S)> C-CAP,S 6P-50 CH	
C44	87-012-140-080	<EXCEPT 110HRJ(S),100HRJ(S),170U(S),170HA(S)> CAP 470P	
C51	87-010-197-080	CAP, CHIP 0.01 DM	
C56	87-010-152-080	C-CAP,S 8P-50 CH	
CF1	87-A90-128-010	<110HRJ(S),100HRJ(S),170U(S),170HA(S)> FLTR,AM IF CFAL-455	
CF2	87-008-261-010	FILTER, SFE10.7MA5-A	
CF3	87-008-261-010	FILTER, SFE10.7MA5-A	
CN2	87-A60-116-010	CONN,6P H S2M-6WR	
L2	87-A50-560-010	COIL,FM BPF(ACD)	
L3	8A-CD9-660-010	BAR-ANT,MW 2B-ACD(COI)	
L3	8A-CD9-661-010	<110HRJ(S),100HRJ(S),170U(S),170HA(S)> BAR-ANT,MW/LW 3B-ACD(COI)	
L4	87-A50-562-010	<EXCEPT 110HRJ(S),100HRJ(S),170U(S),170HA(S)> COIL,FM RF EX(ACD)	
L5	87-A50-564-010	COIL,FM OSC EX(ACD)	
L6	87-A50-337-010	COIL,AM OSC (TOKO)	
L7	87-A50-579-010	<110HRJ(S),100HRJ(S),170U(S),170HA(S)> COIL,AM IFT(ACD)	
L8	87-A50-335-010	COIL,FM IFT (TOKO)	
L9	87-A50-577-010	COIL,FM DET(ACD)	
L10	87-005-849-080	COIL,10UH(CECS)	
L16	87-A50-569-010	COIL,LW OSC-ACD(COI)	
		<EXCEPT 110HRJ(S),100HRJ(S),170U(S),170HA(S)>	

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
L17	87-A50-337-010		COIL,AM OSC (TOKO)
S1	87-A91-548-010	<EXCEPT 110HRJ(S),100HRJ(S),170U(S),170HA(S)> SW,SL-2-3 SK23E01G06	
S1	87-A91-549-010	<110HRJ(S),100HRJ(S),170U(S),170HA(S)> SW,SL-6-4 SK64D01G06	
TC5	87-011-253-080	<EXCEPT 110HRJ(S),100HRJ(S),170U(S),170HA(S)> TRIMER,30P LAR	
TC6	87-011-253-080	<EXCEPT 110HRJ(S),100HRJ(S),170U(S),170HA(S)> TRIMER,30P LAR	
VC1	87-A91-635-010	TUN-CAP,20P-140P E-ACD(MITSUMI)	
VC1	87-A91-167-010	<EXCEPT 100HE(S),170U(S),170HA(S)> TUN-CAP,20P-160P FA-22125 N000	
VC1	87-A91-170-010	<170U(S),170HA(S)> TUN-CAP,20P-335P FA-2217 N000-	
		<100HE(S)>	
HP C.B			
CN204	87-A60-685-010	CONN,4P H WHT EH	
CN605	87-A60-117-010	CONN,7P H S2M-7WR	
CNA203	8A-CDA-628-010	CONN ASSY,4P MA-HP	
J251	87-A60-569-010	JACK,HTJ-035-18	
LED606	88-CD6-630-010	LED,934ID RED	
LED607	88-CD6-630-010	LED,934ID RED	
S606	87-A91-704-080	SW,TACT EVQ 214 05R	
S607	87-A91-704-080	SW,TACT EVQ 214 05R	
S608	87-A91-704-080	SW,TACT EVQ 214 05R	
S614	87-A91-704-080	SW,TACT EVQ 214 05R	
S615	87-A91-704-080	SW,TACT EVQ 214 05R	
BATT1 C.B			
C901	87-010-192-080	C-CAP,S 0.022-50 F	
C902	87-010-192-080	C-CAP,S 0.022-50 F	
C903	87-010-192-080	C-CAP,S 0.022-50 F	
C904	87-010-192-080	C-CAP,S 0.022-50 F	
CNA901	8A-CDA-627-010	CONN ASSY,3P PWR	
△PR901	87-A90-092-080	PROTECTOR,2.5A 491	
SP901	87-CD6-213-010	SPR-C,BATT (-)	
SP902	87-CD6-213-010	SPR-C,BATT (-)	
BATT2 C.B			
SP903	87-CD6-213-010	SPR-C,BATT (-)	
SP904	87-CD6-213-010	SPR-C,BATT (-)	
MOTOR C.B			
M2	9X-262-576-910	MOTOR GEAR ASSY	
PIN3	91-564-722-110	CONNECTOR 6P	
SW1	91-572-085-120	LEAF SW	
VOL SEL C.B<170HA(S)>			
△F901	87-035-347-010	FUSE, 2.5A 250V T<170HA(S)>	
FC901	87-033-213-010	CLAMP, FUSE SMK<170HA(S)>	
FC902	87-033-213-010	CLAMP, FUSE SMK<170HA(S)>	

- 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

チップ抵抗部品コードの成り立ち

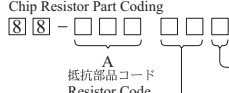


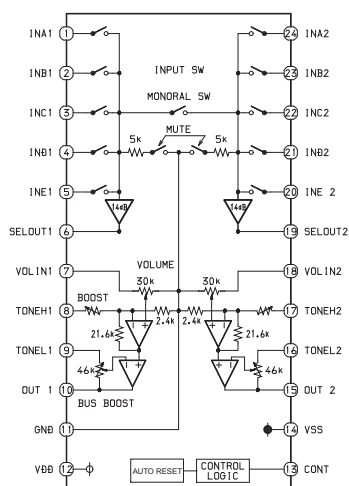
Figure
Value of resistor

チップ抵抗
Chip resistor

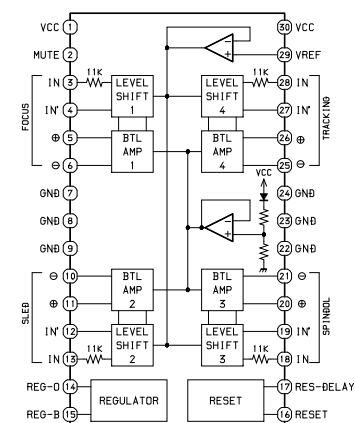
Chip resistor				寸法/Dimensions (mm)				抵抗コード Resistor Code	
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	外形/Form	L	W	t		
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104	
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108	
1/10W	2125	± 5%	CJ		2	1.25	0.45	118	
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128	

IC BLOCK DIAGRAM

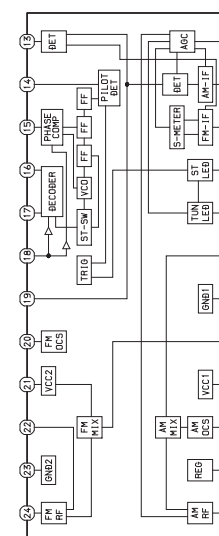
IC, M62495AFP



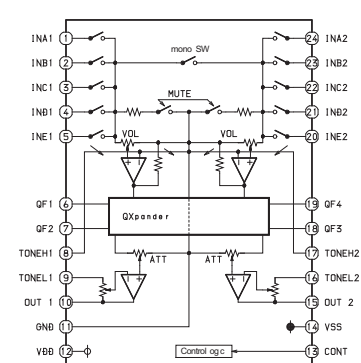
IC, LA6541D



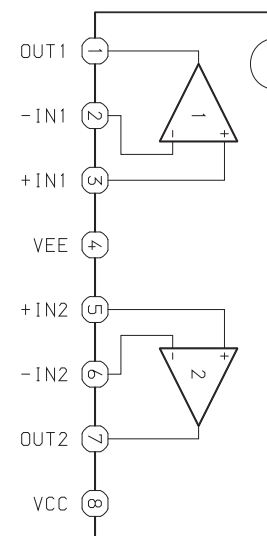
IC, LA1828



IC, M61509FP



IC, BA4560N



The diagram illustrates the PCB layout for a radio receiver, divided into two main sections: the MAIN C.B. (Main Circuit Board) and the FRONT C.B. (Front Circuit Board).

MAIN C.B. Components and Connections:

- IC201:** A central integrated circuit, likely a microcontroller or logic chip, with numerous pins connected to other components.
- IC202:** Another integrated circuit, possibly a driver or amplifier.
- IC401 and IC402:** Additional integrated circuits, likely for audio processing or control.
- Passive Components:** Numerous resistors (R1, R2, etc.), capacitors (C1, C2, etc.), and inductors (L1, L2, etc.) are distributed across the board.
- Connectors:** CN201, CN202, CN401, and CN402 are labeled, indicating connection points for other boards or components.
- External Connections:**
 - TO TAPE MECHANISM ZZH-1 YR2NF:** A connection to a tape mechanism.
 - TO TUNER C.B. CN002:** A connection to a tuner circuit board.
 - TO CD MECHANISM DA1173C:** A connection to a compact disc mechanism.
 - TO MOTOR C.B. (CD MECHANISM DA1173C):** A connection to a motor circuit board.

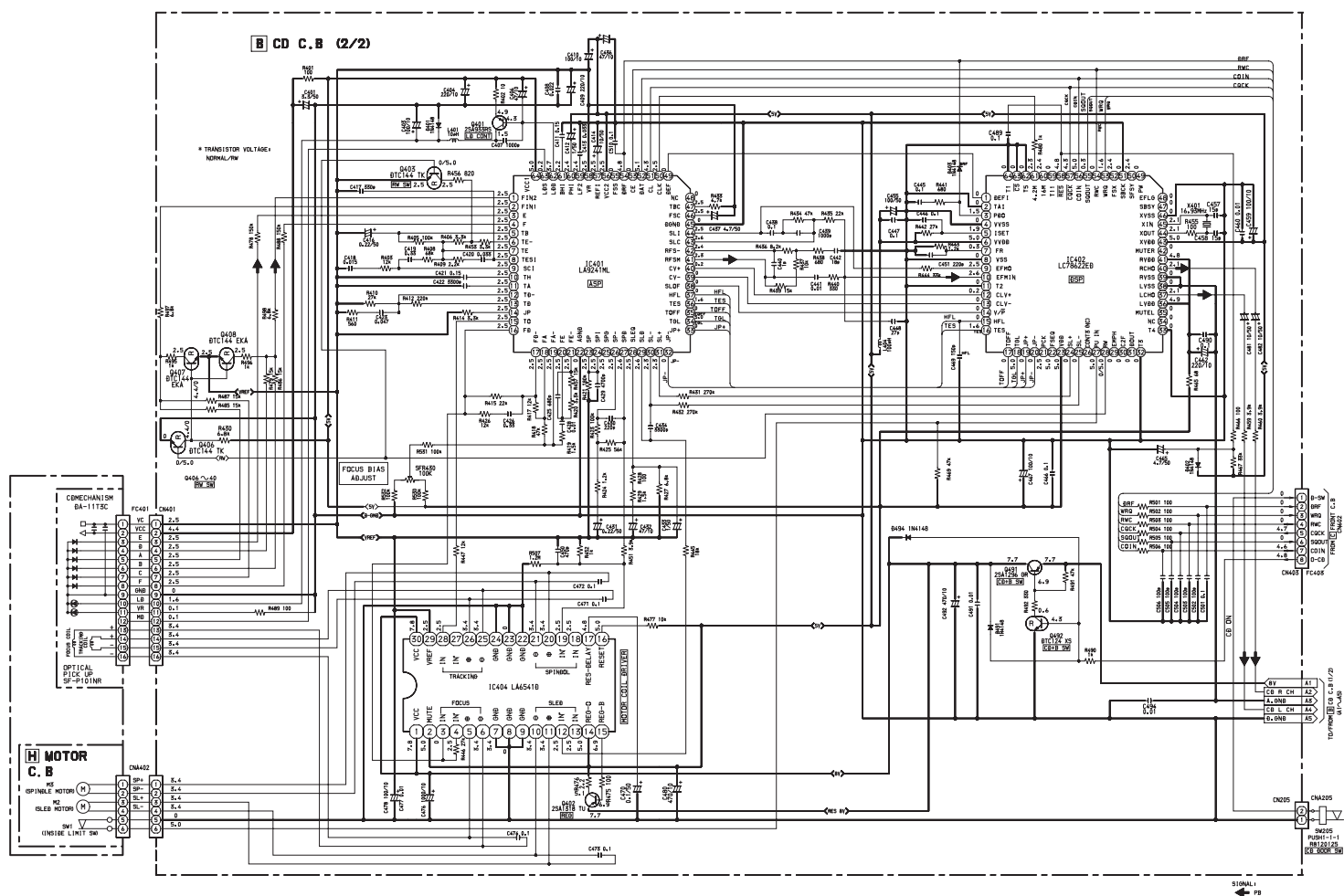
FRONT C.B. Components and Connections:

- Volume Knob:** A potentiometer (P1) for volume control.
- Power Switch:** A switch (SW205) for power.
- Speaker:** A speaker (S1) for audio output.
- Connectors:** CN601 and CN602 are labeled, indicating connection points for the main board.
- External Connections:**
 - TO MAIN C.B. CN601:** A connection to the main circuit board.
 - TO MAIN C.B. CN602:** A connection to the main circuit board.

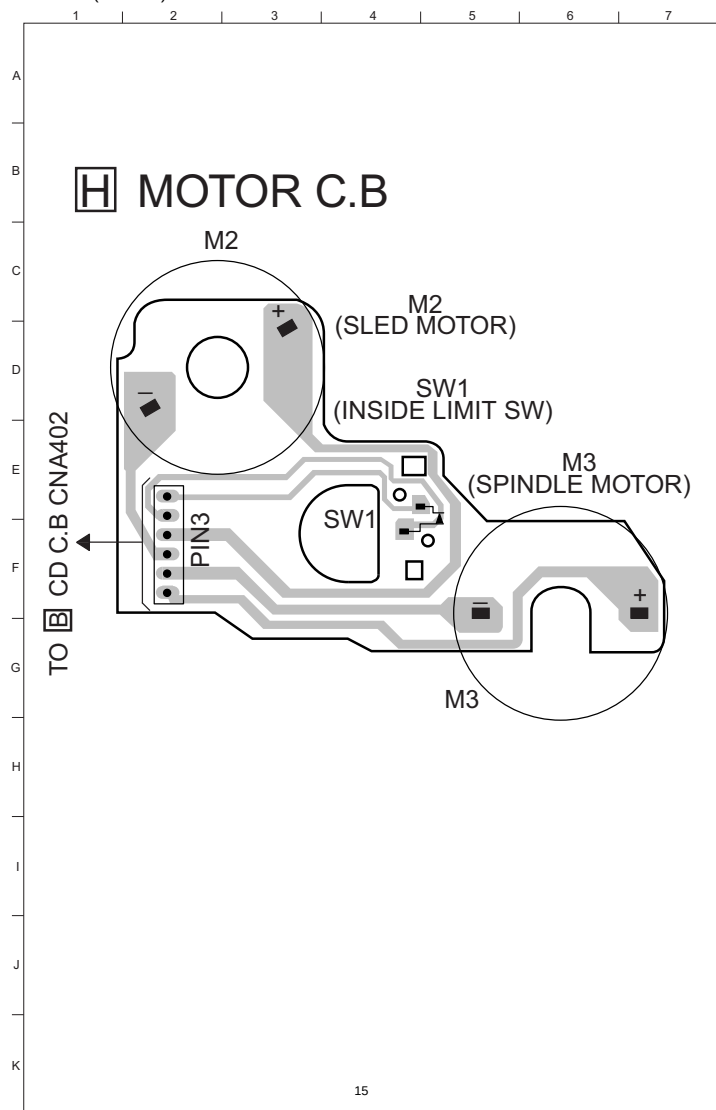
The diagram includes detailed component values and connection points, providing a comprehensive view of the PCB layout.

[illegible]

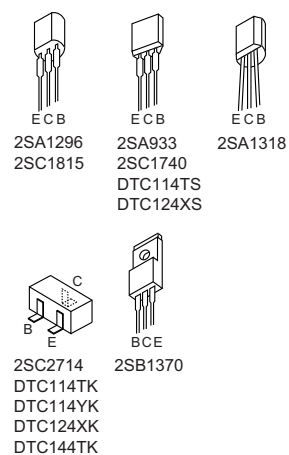
SCHEMATIC DIAGRAM-2 (CD)



WIRING-2 (MOTOR)

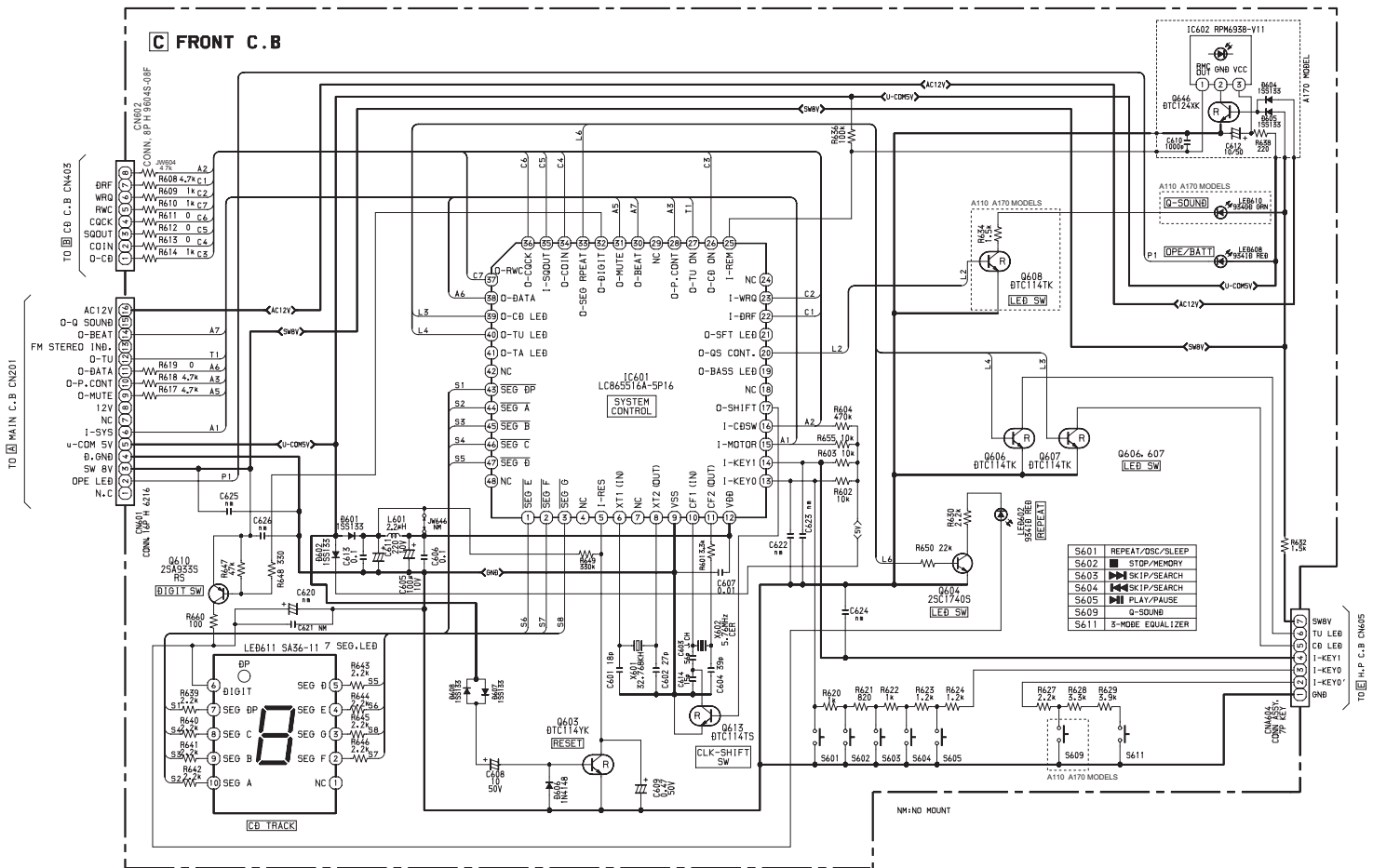


TRANSISTOR ILLUSTRATION



[illegible]

SCHEMATIC DIAGRAM-3 (FRONT)



D TUNER C.B.

SW001
1 2 3
FM (ST) FM (MONO) AM

TO MAIN C.B.
T-ON
ST INL.
+B (BV)
L-CH OUT
GND
R-CH OUT

1 2 3 4 5 6
CN002

FM ANT.
L001
R001 1k
L002 2500pF
L003 2500pF
L004 TC002
PVC001 (2/4)
TC002 47pF
L005 0.01uF
R002 10
R003 10
C001 0.01uF
C002 0.01uF
C003 0.01uF
C004 0.01uF
C005 0.01uF
C006 0.01uF
C007 0.01uF
C008 0.01uF
C009 0.01uF
C010 0.01uF
C011 0.01uF
C012 0.01uF
C013 0.01uF
C014 0.01uF
C015 0.01uF
C016 0.01uF
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C296 0.01uF
C297 0.01uF
C298 0.01uF
C2

1 2 3 4 5 6 7

A
B
C
D
E
F
G
H
I
J
K

TUNER C.B

23

(HA, HE, HR, U MODELS)

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.

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.

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.....85kHz 0.5kHz

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.

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 (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 thesync 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	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	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-5P16

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	I-RES	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	VSS	—	GND.
10	CF1(IN)	I	Connected to an external 5.76 MHz ceramic filter.
11	CF2(OUT)	O	Connected to an external 5.76 MHz ceramic filter.
12	VDD	—	Microprocessor power supply (+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 REPEAT	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-WRC	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	SEG DP	O	SEG DP control.
44	SEG A	O	SEG A control.
45	SEG B	O	SEG B control.
46	SEG C	O	SEG C control.
47	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。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

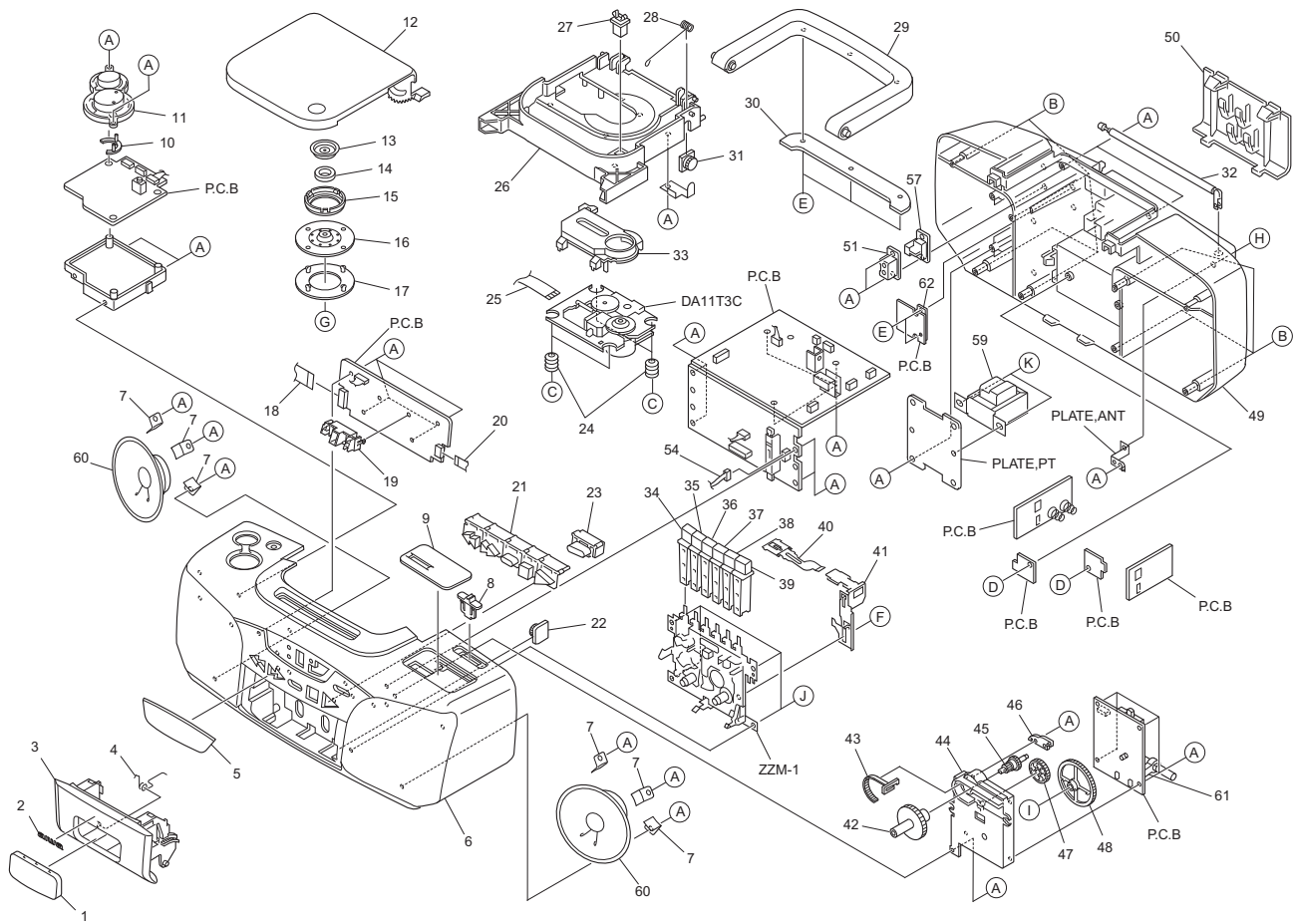
REF NO	PART NO	KANRI NO	DESCRIPTION	REF NO	PART NO	KANRI NO	DESCRIPTION
1	8A-CDA-006-010		WINDOW,CASS	21	8A-CDA-016-010		KEY,CD
<110HRJ(S),100K(S),99K(S)			WINDOW,CASS D	21	8A-CDA-078-010		<EXCEPT 100EZ(P),100EZ(L),110EZ(L)>
1	8A-CDA-062-010		WINDOW,CASS D				KEY,CD EZ L
			<100HE(S),110EZ(S),100HRJ(S)>				<100EZ(P),100EZ(L),110EZ(L)>
1	8A-CDA-072-010		WINDOW,CASS EZ L<100EZ(L)>	22	87-063-165-010		OIL-DMPR 150
1	8A-CDA-096-010		WINDOW,CASS EZ P<100EZ(P)>	23	8A-CDA-017-010		KEY,MOOR
1	8A-CDA-128-010		WINDOW,CASS L<110EZ(L)>				<EXCEPT 100EZ(P),100EZ(L),110EZ(L)>
2	87-R00-010-010		BADGE,ATWA 30.5-5.2 S 2.5L	23	8A-CDA-079-010		KEY,MOOR EZ L
3	8A-CDA-003-010		LID,CASS				<100EZ(P),100EZ(L),110EZ(L)>
			<EXCEPT 100EZ(P),100EZ(L),110EZ(L)>	24	88-CH6-220-010		CUSHION,CD A
3	8A-CDA-069-010		LID,CASS EZ L<100EZ(L)>	25	8A-CDA-621-010		FF-CABLE,16P CD-RF
3	8A-CDA-093-010		LID,CASS EZ P<100EZ(P)>	26	8A-CDA-012-010		CHAS,CD<EXCEPT 100EZ(P),100EZ(L)>
3	8A-CDA-125-010		LID,CASS L<110EZ(L)>	26	8A-CDA-180-010		CHAS,CD EZ L<100EZ(L)>
			<110HRJ(S),110EZ(S),110EZ(L)>	26	8A-CDA-114-010		CHAS,CD EZ P<100EZ(P)>
4	8A-CDA-212-010		SPR-T,CASS	27	87-036-389-010		SW,PUSH LOCK
5	8A-CDA-031-010		WINDOW,LED<170K(S),170HA(S)>	28	8A-CDA-211-010		SPR-T,CD
5	8A-CDA-008-010		WINDOW,LED<100EZ(L)>	29	8A-CDA-010-110		HANDL,ARM
5	8A-CDA-039-010		WINDOW,LED LH				<EXCEPT 100EZ(P),100EZ(L),110EZ(L)>
			<110HRJ(S),110EZ(S),110EZ(L)>	29	8A-CDA-074-010		HANDL,ARM EZ L<100EZ(L)>
5	8A-CDA-113-010		WINDOW,LED LOW EZ P<100EZ(P)>	29	8A-CDA-098-010		HANDL,ARM EZ P<100EZ(P)>
5	8A-CDA-042-010		WINDOW,LED LOW LH	29	8A-CDA-130-010		HANDL,ARM L<110EZ(L)>
			<100EZ(S),100K(S),99K(S),100EZ(S),100HRJ(S)>	30	8A-CDA-011-010		HANDL,COVER
5	8A-CDA-033-010		WINDOW,LED U<170U(S)>				<EXCEPT 100EZ(P),100EZ(L),110EZ(L)>
6	8A-CDA-028-010		CABI ASSY,FRONT	30	8A-CDA-075-010		HANDL,COVER EZ L<100EZ(L)>
			<110HRJ(S),170U(S),170HA(S)>	30	8A-CDA-099-010		HANDL,COVER EZ P<100EZ(P)>
6	8A-CDA-120-010		CABI ASSY,FRONT A99<99K(S)>	30	8A-CDA-131-010		HANDL,COVER L<110EZ(L)>
6	8A-CDA-034-010		CABI ASSY,FRONT EZ				<110EZ(S),170K(S)>
			<110EZ(S),170K(S)>	31	87-MF8-220-010		DMPR,150
6	8A-CDA-122-010		CABI ASSY,FRONT EZ L<110EZ(L)>	32	82-CHA-640-010		ANT,ROD
6	8A-CDA-036-010		CABI ASSY,FRONT LOW EZ	33	82-CBR-169-010		PANEL,CD SANWO
			<100K(S),100EZ(S)>	34	8A-CDA-027-010		KEY,PAUSE
6	8A-CDA-066-010		CABI ASSY,FRONT LOW EZ L				<EXCEPT 100EZ(P),100EZ(L),110EZ(L)>
			<100EZ(L)>	34	8A-CDA-088-010		KEY,PAUSE EZ L<100EZ(L)>
6	8A-CDA-090-010		CABI ASSY,FRONT LOW EZ P	34	8A-CDA-112-010		KEY,PAUSE EZ P<100EZ(P)>
			<100EZ(P)>	34	8A-CDA-143-010		KEY,PAUSE L<110EZ(L)>
6	8A-CDA-054-010		CABI ASSY,FRONT LOW HR	35	8A-CDA-026-010		KEY,STOP
			<100HE(S),100HRJ(S)>				<EXCEPT 100EZ(P),100EZ(L),110EZ(L)>
7	8A-CDA-206-010		HLDR,SPKR	35	8A-CDA-087-010		KEY,STOP EZ L<100EZ(L)>
8	8A-CDA-020-010		KNOB,SL BAND	35	8A-CDA-111-010		KEY,STOP EZ P<100EZ(P)>
			<110HRJ(S),100HE(S),100HRJ(S),170U(S),170HA(S)>	35	8A-CDA-142-010		KEY,STOP L<110EZ(L)>
8	8A-CDA-059-010		KNOB,SL BAND EZ	36	8A-CDA-025-010		KEY,FF
			<100K(S),110EZ(S),99K(S),100EZ(S),170K(S)>				<EXCEPT 100EZ(P),100EZ(L),110EZ(L)>
8	8A-CDA-081-010		KNOB,SL BAND EZ L<100EZ(L)>	36	8A-CDA-085-010		KEY,FF EZ L<100EZ(L)>
8	8A-CDA-105-010		KNOB,SL BAND EZ P<100EZ(P)>	36	8A-CDA-109-010		KEY,FF EZ P<100EZ(P)>
			<100EZ(P)>	36	8A-CDA-140-010		KEY,FF L<110EZ(L)>
8	8A-CDA-136-010		KNOB,SL BAND L<110EZ(L)>				<EXCEPT 100EZ(P),100EZ(L),110EZ(L)>
9	8A-CDA-009-010		WINDOW,TU<170U(S)>	37	8A-CDA-024-010		KEY,REW
9	8A-CDA-045-010		WINDOW,TU EZ				<EXCEPT 100EZ(P),100EZ(L),110EZ(L)>
9	8A-CDA-073-010		WINDOW,TU EZ L<100EZ(L)>	37	8A-CDA-086-010		KEY,REW EZ L<100EZ(L)>
9	8A-CDA-097-010		WINDOW,TU EZ P<100EZ(P)>	37	8A-CDA-110-010		KEY,REW EZ P<100EZ(P)>
			<100K(S),110EZ(S),99K(S),100EZ(S),170K(S)>	37	8A-CDA-141-010		KEY,REW L<110EZ(L)>
9	8A-CDA-046-010		WINDOW,TU HR	38	8A-CDA-023-010		KEY,PLAY
			<110HRJ(S),100HE(S),100HRJ(S),170HA(S)>				<EXCEPT 100EZ(P),100EZ(L),110EZ(L)>
9	8A-CDA-129-010		WINDOW,TU L<110EZ(L)>	38	8A-CDA-084-010		KEY,PLAY EZ L<100EZ(L)>
10	8A-CDA-007-010		LENS,LED	38	8A-CDA-108-010		KEY,PLAY EZ P<100EZ(P)>
11	8A-CDA-019-010		KEY,VOL	38	8A-CDA-139-010		KEY,PLAY L<110EZ(L)>
			<EXCEPT 100EZ(P),100EZ(L),110EZ(L)>	39	8A-CDA-022-010		KEY,REC
11	8A-CDA-080-010		KEY,VOL EZ L<100EZ(L)>				<EXCEPT 100EZ(P),100EZ(L),110EZ(L)>
11	8A-CDA-104-010		KEY,VOL EZ P<100EZ(P)>	39	8A-CDA-083-010		KEY,REC EZ L<100EZ(L)>
11	8A-CDA-135-010		KEY,VOL L<110EZ(L)>				<EXCEPT 100EZ(P),100EZ(L),110EZ(L)>
12	8A-CDA-004-010		LID,CD	39	8A-CDA-107-010		KEY,REC EZ P<100EZ(P)>
<110HRJ(S),100K(S),99K(S)			WINDOW,TU EZ L<100EZ(L)>	39	8A-CDA-138-010		KEY,REC L<110EZ(L)>
12	8A-CDA-061-010		LID,CD D	40	8A-CDA-221-010		SPR-P,REC<EXCEPT 100HE(S)>
			<100HE(S),110EZ(S),100HRJ(S)>	41	8A-CDA-220-010		PLATE,REC
12	8A-CDA-070-010		LID,CD EZ L<100EZ(L)>	42	8A-CDA-021-010		KNOB,RTY TU
			<110HRJ(S),100HE(S),100HRJ(S)>				<EXCEPT 100EZ(P),100EZ(L),110EZ(L)>
12	8A-CDA-094-010		LID,CD EZ P<100EZ(P)>	42	8A-CDA-082-010		KNOB,RTY TU EZ L<100EZ(L)>
12	8A-CDA-126-010		LID,CD L<110EZ(L)>	42	8A-CDA-106-010		KNOB,RTY TU EZ P<100EZ(P)>
13	8A-CDA-213-010		COVER,CHUCK	42	8A-CDA-137-010		KNOB,RTY TU L<110EZ(L)>
14	87-016-368-010		MAGNET	43	8A-CDA-013-010		POINTER,TU
15	8A-CDA-207-010		HLDR,CHUCK	44	8A-CDA-203-010		HLDR,TU
16	8A-CDA-150-010		BASE,CHUCK F/M	45	8A-CDA-216-010		GEAR,TU B
17	88-CD9-211-210		RING,CHUCK	46	8A-CDA-203-010		GUIDE,GEAR
18	8A-CDA-620-010		FF-CABLE,16P FR-MAIN	47	8A-CDA-202-010		GEAR,RELAY
19	8A-CDA-208-110		HLDR,LED	48	8A-CDA-215-010		DRUM,TU
20	8A-CDA-622-010		FF-CABLE,8P CD-RF				

REF NO	PART NO	KANRI NO	DESCR PTION	REF NO	PART NO	KANRI NO	DESCR PTION
49	8A-CDL-002-010		CABI, REAR<170U(S),170K(S)>	△	57	87-A60-177-010	JACK,AC U W/SW<170U(S)>
49	8A-CDA-002-010		CABI, REAR<110EZ(S)>	58	8A-CDA-018-010		KEY,QSOUND
49	8A-CDA-118-010		CABI, REAR A99<99K(S)>				<110HRJ(S),110EZ(S),170U(S),170K(S),170HA(S)>
49	8A-CDA-124-010		CABI, REAR EZ L<110EZ(L)>	58	8A-CDA-134-010		KEY,QSOUND L<110EZ(L)>
49	8A-CDA-030-010		CABI, REAR LH<110HRJ(S)>	59	8A-CDA-612-010		PT, B 2.5W
			<EXCEPT 110HRJ(S),100HE(S),100HRJ(S),170U(S),170HA(S)>	59	8A-CDA-613-010		PT, H 2.5W
49	8A-CDL-030-010		CABI, REAR LH<170HA(S)>				<110HRJ(S),100HE(S),100HRJ(S),170HA(S)>
49	8A-CDA-037-010		CABI, REAR LOW<100K(S),100EZ(S)>	△	59	8A-CDA-611-010	PT, U 2.5W<170U(S)>
49	8A-CDA-068-010		CABI, REAR LOW EZ L<100EZ(L)>	60	8A-CDA-682-010		SPKR, 10- 70HM
49	8A-CDA-092-010		CABI, REAR LOW EZ P	61	88-CD6-661-010		HLDR, BAR ANT.
			<100EZ(P)>	62	87-A91-369-010		SW, AC SL 2 2 2 SDKGA41700
49	8A-CDA-038-010		CABI, REAR LOW LH				<110HRJ(S),100HE(S),100HRJ(S),170HA(S)>
			<100HE(S),100HRJ(S)>	A	87-721-096-410		QTT<+3-10 GLD
50	8A-CDA-005-010		LID, BATT	B	87-751-104-410		VT2<+3-30
50	8A-CDA-071-010		<EXCEPT 100EZ(P),100EZ(L),110EZ(L)>	C	8A-CDA-223-010		S-SCREW,CD
50	8A-CDA-095-010		LID, BATT EZ L<100EZ(L)>	D	87-067-566-010		TAPPING SCREW, VFTT<+3-6
50	8A-CDA-127-010		LID, BATT L<110EZ(L)>	E	87-352-075-210		VT2<+6-10
51	8E-CD5-634-010		COVER,AC SOCKET	F	8A-CDA-222-010		S-SCREW,CASS<+2.6-4
52	8A-CDA-626-010		CONN ASSY,2P DOOR	H	87-253-097-410		U<+3-12 BLK
53	8A-CDA-630-010		CONN ASSY,4P RPM	I	87-261-073-410		V<+2.6-6
54	8A-CDA-633-010		CONN ASSY,4P SP	J	87-751-096-410		VT2<+3-10 GLD
55	8A-CDA-631-010		CONN ASSY,4P TA-ME				
△	57	87-A60-178-010	JACK,AC E W/SW<EXCEPT 170U(S)>				

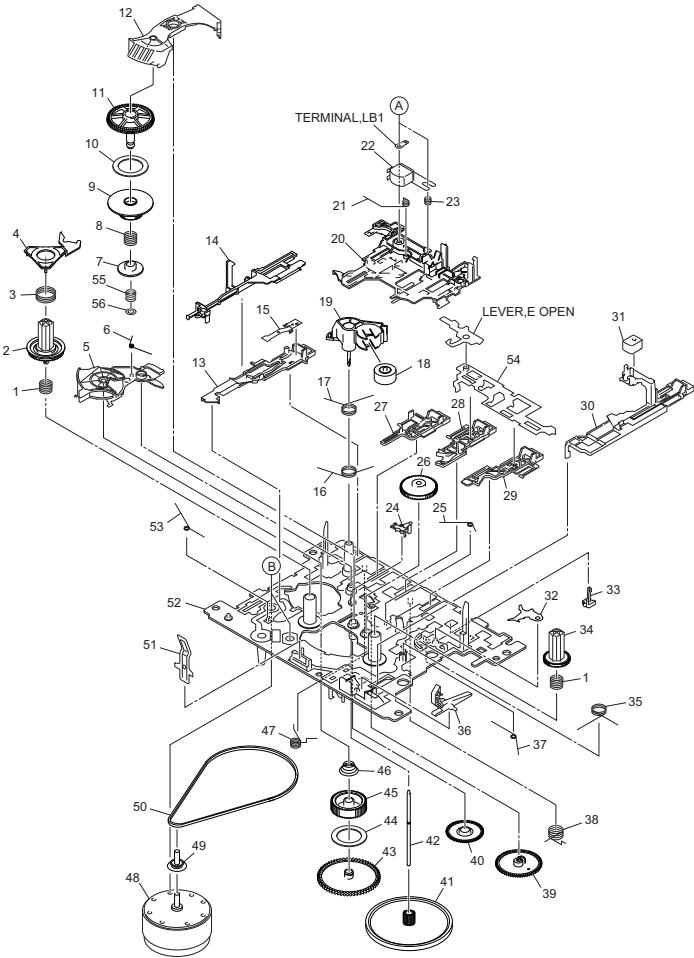
COLOR NAME TABLE

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



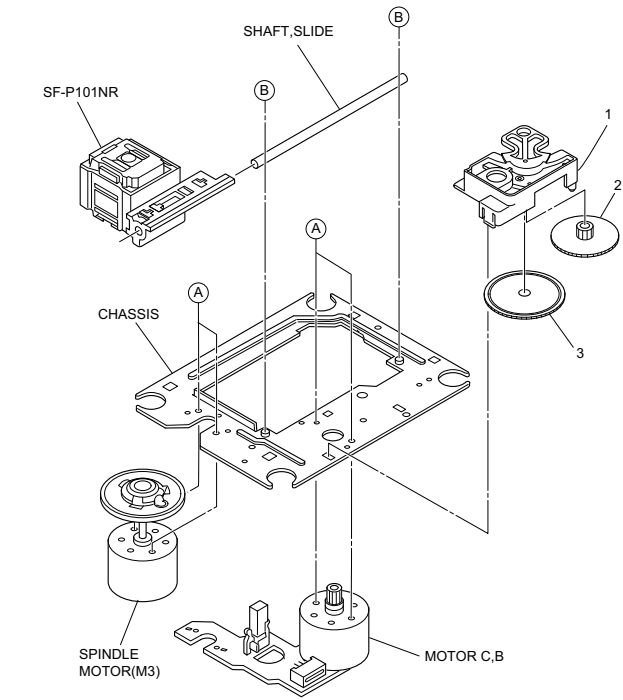
TAPE MECHANISM EXPLODED VIEW 1/1



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	82-ZM1-254-210		SPR-C, REEL R	31	87-A91-533-010		HEAD, EH PH-K380
2	82-ZM1-225-110		GEAR, REEL R	32	82-ZM1-215-010		LEVER, REC LOCK
3	82-ZM1-253-110		SPR-C, AUTO SENSOR	33	87-A91-492-010		SW LEAR M0W18560
4	82-ZM1-217-110		LEVER, AUTO SENSOR	34	82-ZM1-226-010		GEAR, REEL L
5	82-ZM1-212-110		LEVER, T-UP	35	82-ZM1-241-010		SPR-T, PLAY
6	82-ZM1-245-010		SPR-T, AUTO	36	82-ZM1-220-010		LEVER, REC SENSOR
7	82-ZM1-236-010		CLR, SLIP FF/REW	37	82-ZM1-249-010		SPR-T, FR
8	82-ZM1-252-010		SPR-C, FF/REW	38	82-ZM1-242-110		SPR-T, FF/REW
9	82-ZM1-230-010		GEAR, SLIP FF/REW A	39	82-ZM1-229-010		GEAR, CMW
10	82-ZM1-266-010		FELT, FF/REW	40	82-ZM1-232-010		GEAR, IDL FF/REW
11	82-ZM1-231-010		GEAR, SLIP FF/REW B	41	82-ZM1-234-010		FLY-WHL, Z2M-1
12	82-ZM1-213-010		LEVER, FF/REW	42	82-ZM1-267-010		SHAFT, CAPSTAN 2
13	82-ZM1-209-110		LEVER, PAUSE	43	82-ZM1-228-010		GEAR, SLIP T-UP B
14	82-ZM1-222-010		LEVER, E-LOCK M	44	82-ZM1-265-010		FELT, T-UP
15	82-ZM1-256-010		SPR-P, PAUSE	45	82-ZM1-227-010		GEAR, SLIP T-UP A
16	82-ZM1-244-010		SPR-T, T-UP	46	82-ZM1-251-110		SPR-C, T-UP SLIP
17	82-ZM1-247-210		SPR-T, PINCH	47	82-ZM1-243-210		SPR-T, STOP/PAUSE
18	82-ZM1-261-110		ROLLER ASSY, PINCH	48	87-A91-531-010		MOT, MS15C2L
19	82-ZM1-221-010		LEVER, PINCH	49	82-ZM1-271-010		PULLEY, MOT Z2M-1
20	82-ZM1-205-210		LEVER, PLAY	50	82-ZM1-264-010		BELT, MAIN S
21	82-ZM1-248-010		SPR-T, BRG	51	82-ZM1-260-010		SPR-P, CASSETTE
22	87-A90-403-110		HEAD, RPH MS15R	52	82-ZM1-201-310		CHAS ASSY, Z2M-1
23	84-ZM2-227-310		SPR-C, ALMOTR	53	82-ZM1-255-110		SPR-T, E-LOCK
24	82-ZM1-216-010		LEVER, AUTO	54	82-ZM1-214-010		LEVER, LOCK
25	82-ZM1-246-010		SPR-T, AUTO 2	55	82-ZM1-257-110		SPR-C, F/R
26	82-ZM1-233-010		GEAR, IDL REW	56	82-ZM1-275-010		W-L, 1.47-4-0.25
27	82-ZM1-208-010		LEVER, STOP	A	84-ZM2-242-010		S-SCREW, A21-2-6.4
28	82-ZM1-207-010		LEVER, FF	B	82-ZM1-270-110		V-2.6 Z2M-1
29	82-ZM1-206-010		LEVER, REW				
30	82-ZM1-211-110		LEVER, REC 2				

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

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-CDA-906-010	IB,BZ(9L) FM	PDF
		<110EZ(S),100EZ(P),100EZ(L),100EZ(S),110EZ(L)>	
1	8A-CDA-901-010	IB,H(ECA) FM	
		<110HRJ(S),100HE(S),100HRJ(S)>	
1	8A-CDA-905-110	IB,K(B) FM<100K(S),99K(S),170K(S)>	
1	8A-CDL-902-010	IB,LH(BSP) FM<170HA(S)>	
1	8A-CDA-903-010	IB,U(BSP) FM<170U(S)>	
2	82-CDK-962-010	RC UNIT,RC-ZAT02(VS)	
		<170U(S),170K(S),170HA(S)>	
3	87-A80-119-010	AC CORD SET ASSY,AE<170HA(S)>	
3	87-A80-036-010	AC CORD SET ASSY,E W/FILTER VOL	
		<100HR(S),110EZ(S),100EZ(P),100EZ(L),100EZ(S),110EZ(L)>	
3	87-A80-034-010	AC CORD SET ASSY,K W/F MAY-BG	
		<100K(S),99K(S),170K(S)>	
3	87-A80-089-010	AC CORD SET,HC	
		<110HRJ(S),100HRJ(S)>	
3	87-A80-109-010	AC CORD,HK7281 BLK U-170U(S)>	
4	87-A91-017-010	PLUG,CONVERSION JT-0476	
		<110HRJ(S),100HRJ(S)>	