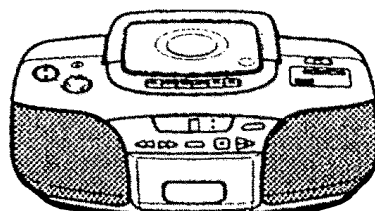




CSD-A100 G(S),V(S)



SERVICE MANUAL

COMPACT DISC STEREO
CASSETTE RECEIVER

BASIC TAPE MECHANISM : ZZM-1 YR2NP
BASIC CD MECHANISM : DA11T3C

This Service Manual is the "Revision Publishing" and replaces "Simple Manual"
(S/M Code No. 09-003-342-2T6).

aiwa
S/M Code No. 09-003-342-2R6

REVISION
DATA

SPECIFICATIONS

GSC 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 — 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.

VSC MODEL

Tuner section

Frequency range, antenna — FM1: 65.0 - 74.0 MHz Rod antenna,
FM2: 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 — 2.9 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
— 420 (W) × 185 (H) × 250 (D) mm / Weight — 3.45 kg (excluding
batteries)

- Design and specifications are subject to change without notice.

ACCESSORIES/PACKAGE LIST

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

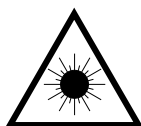
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CDA-904-010	IB, G (E)	FM<GSC>
1	8A-CDA-907-010	IB, V (ER)	FM<VSC>
2	87-050-076-010	AC	CORD SET ASSY, E<VSC>
2	87-A80-144-010	AC	CORD SET ASSY, G BLK<GSC>

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 mainituilla 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

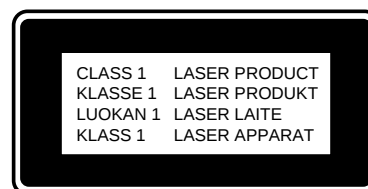
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.

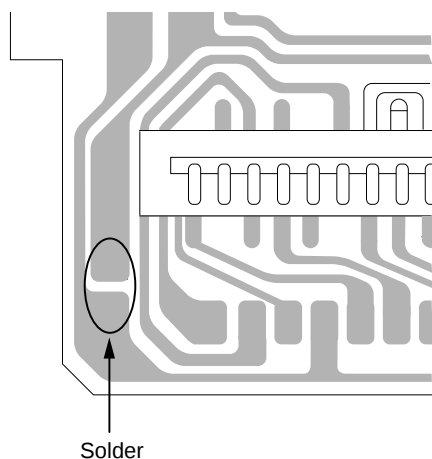
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



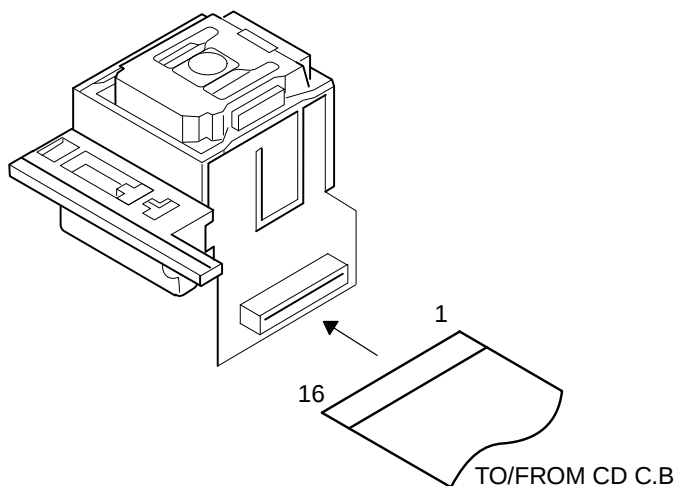
Precaution to replace Optical block (SF-P101NR)

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.



PICK UP ASSY
SF-P101NR



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".

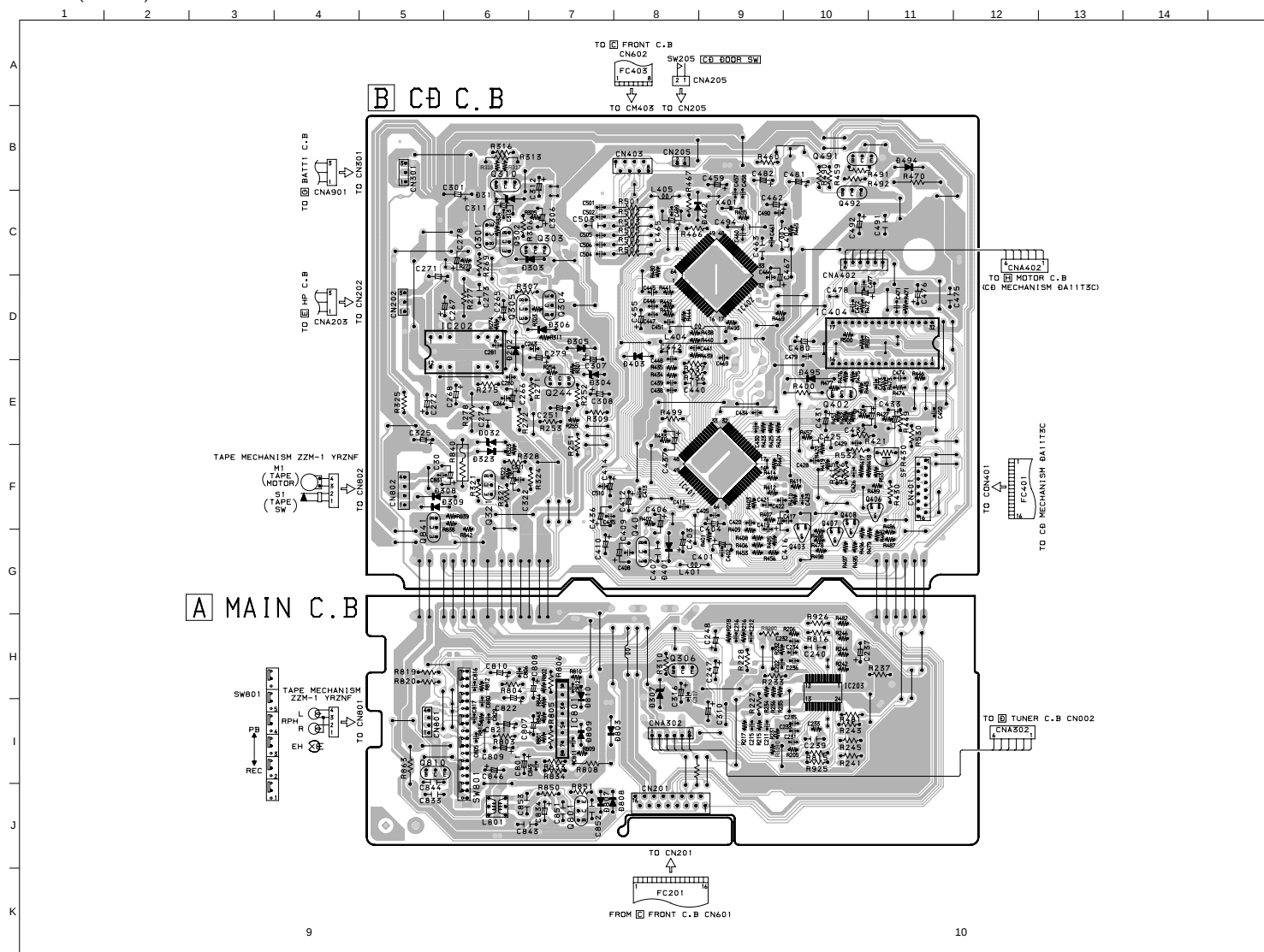
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC				C816	87-010-180-080		C-CER 1500P
				C817	87-010-180-080		C-CER 1500P
	87-A20-955-010	IC, LA1828		C821	87-010-401-080		CAP, ELECT 1-50V
	87-A21-064-010	IC, LA4227		C822	87-010-401-080		CAP, ELECT 1-50V
	87-A21-443-040	C-IC, M62495AFP		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-A20-856-010	IC, BA6898S		C834	87-010-248-080		CAP, ELECT 220-10V
	8A-CD9-610-010	C-IC, LC865516A-5P16		C843	87-010-197-080		CAP, CHIP 0.01 DM
	87-A21-607-010	IC, NJM14558LD		C844	87-018-124-080		CAP, CER 270P-50V
TRANSISTOR				C845	87-010-178-080		CHIP CAP 1000P
				C846	87-010-263-080		CAP, ELECT 100-10V
	89-327-143-080	TR, 2SC2714 (0.1W)		C851	87-010-186-080		CAP, CHIP 4700P
	87-026-447-080	TR, 2SC1740S R		C852	87-010-178-080		CHIP CAP 1000P
	87-026-463-080	TR, 2SA933S (0.3W)		C853	87-A11-132-080		CAP, TC U 0.01-50 K B
	87-A30-288-040	C-TR, DTC114YKA		CN201	87-099-018-010		CONN, 16P
	89-318-154-080	TR, 2SC1815 (0.4W)		CN801	87-A60-110-010		CONN, 4P V S2M-4W
				CNA302	8A-CDA-629-010		CONN ASSY, 6P MA-TU
	89-112-965-080	TR, 2SA1296 (0.75W)		L801	87-007-342-010		COIL, OSC 85K BIAS
	87-026-291-080	TR, DTC124XS		SW801	8Z-CD9-609-010		SW, SL 1-6-2 PS62D01
	89-213-702-010	TR, 2SB1370 (1.8W)					
	87-026-462-080	TR, 2SC1740 S (RS 0.3W)		CD C.B			
	89-109-332-380	TR, 2SA933RS					
	89-113-187-080	TR, 2SA1318TU		C30	87-010-260-080		CAP, ELECT 47-25V
	87-A30-436-040	C-TR, DTC144TKA		C251	87-010-404-080		CAP, ELECT 4.7-50V
	89-317-403-080	TR, 2SC1740S		C261	87-010-402-080		CAP, ELECT 2.2-50V
	87-A30-287-040	C-TR, DTC114TKA		C262	87-010-402-080		CAP, ELECT 2.2-50V
	87-026-464-080	TR, DTC114TS (0.3W)		C263	87-010-178-080		CHIP CAP 1000P
DIODE				C264	87-010-178-080		CHIP CAP 1000P
				C265	87-010-263-080		CAP, ELECT 100-10V
				C266	87-010-263-080		CAP, ELECT 100-10V
	87-020-465-080	DIODE, 1SS133 (110MA)		C267	87-010-112-080		CAP, ELECT 100-16V
	87-A40-916-040	C-VARI-CAP, HVC202A		C268	87-010-112-080		CAP, ELECT 100-16V
	87-A40-650-080	ZENER, MTZJ6.8A					
	87-A40-912-040	C-DIODE, HSC277B-TRF<VSC>		C271	87-010-237-080		CAP, ELECT 1000-16V
	87-070-345-080	DIODE, 1N4148		C272	87-010-237-080		CAP, ELECT 1000-16V
				C278	87-010-405-080		CAP, ELECT 10-50V
	87-A40-648-080	ZENER, MTZJ8.2A		C279	87-010-385-080		CAP, ELECT 220-25V
	87-A40-234-080	ZENER, MTZJ5.6A		△C301	87-016-495-000		CAP, E 3300-25 M SMG
	87-017-978-080	DIODE, 1N4003					
	87-017-932-080	ZENER, MTJ6.2B		C306	87-010-404-080		CAP, ELECT 4.7-50V
	87-A40-465-010	DIODE, FR202		C307	87-010-401-080		CAP, ELECT 1-50V
				C308	87-010-221-080		CAP, ELECT 470-10V
				C311	87-010-374-080		CAP, ELECT 47-10V
				C312	87-010-385-080		CAP, ELECT 220-25V
MAIN C.B							
C211	87-A11-177-080	C-CAP, S 0.15-16 K B		C321	87-010-197-080		CAP, CHIP 0.01 DM
C212	87-A11-177-080	C-CAP, S 0.15-16 K B		C322	87-010-263-080		CAP, ELECT 100-10V
C215	87-016-460-080	C-CAP, S 0.22-16 B		C325	87-010-405-080		CAP, ELECT 10-50V
C216	87-016-460-080	C-CAP, S 0.22-16 B		C401	87-010-403-080		CAP, ELECT 3.3-50V
C231	87-010-213-080	C-CAP, S 0.015-50 B		C402	87-010-197-080		CAP, CHIP 0.01 DM
C232	87-010-213-080	C-CAP, S 0.015-50 B		C403	87-010-263-080		CAP, ELECT 100-10V
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
C237	87-010-371-080	CAP, ELECT 470-6.3V		C408	87-010-198-080		CAP, CHIP 0.022
C239	87-010-197-080	CAP, CHIP 0.01 DM		C409	87-010-248-080		CAP, ELECT 220-10V
C240	87-010-197-080	CAP, CHIP 0.01 DM		C410	87-010-263-080		CAP, ELECT 100-10V
C247	87-010-401-080	CAP, ELECT 1-50V		C411	87-A11-177-080		C-CAP, S 0.15-16 K B
C248	87-010-401-080	CAP, ELECT 1-50V		C412	87-010-401-080		CAP, ELECT 1-50V
C310	87-010-248-080	CAP, ELECT 220-10V		C413	87-016-369-080		C-CAP, S 0.033-25 B K
C316	87-010-263-080	CAP, ELECT 100-10V		C414	87-010-405-080		CAP, ELECT 10-50V
C317	87-015-819-080	CAPACITOR, 0.01		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
C806	87-012-365-080	C-CAP, S 0.027-25VBK		C419	87-A11-608-080		C-CAP, S 0.33-25 K B
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	87-010-184-080		CHIP CAPACITOR 3300P(K)
C810	87-010-401-080	CAP, ELECT 1-50V		C423	87-010-992-080		C-CAP, S 0.047-25 B
C811	87-010-178-080	CHIP CAP 1000P		C425	87-010-176-080		C-CAP, S 680P-50 SL
C812	87-010-178-080	CHIP CAP 1000P		C426	87-A11-608-080		C-CAP, S 0.33-25 K B

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
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 CH	
C441	87-010-197-080	CAP, CHIP 0.01 DM	
C442	87-010-313-080	CAP, CHIP 18P	
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	
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	
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	
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	
CN403	87-099-201-010	CONN,8P 6216 H	
CN802	8A-CH4-687-010	CONN,4P V 2.5	
CNA402	8A-CDA-625-010	CONN ASSY,6P CD-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	
X401	8Z-CD5-633-010	VIB, CER16.93MHZ FCR16.93M2	

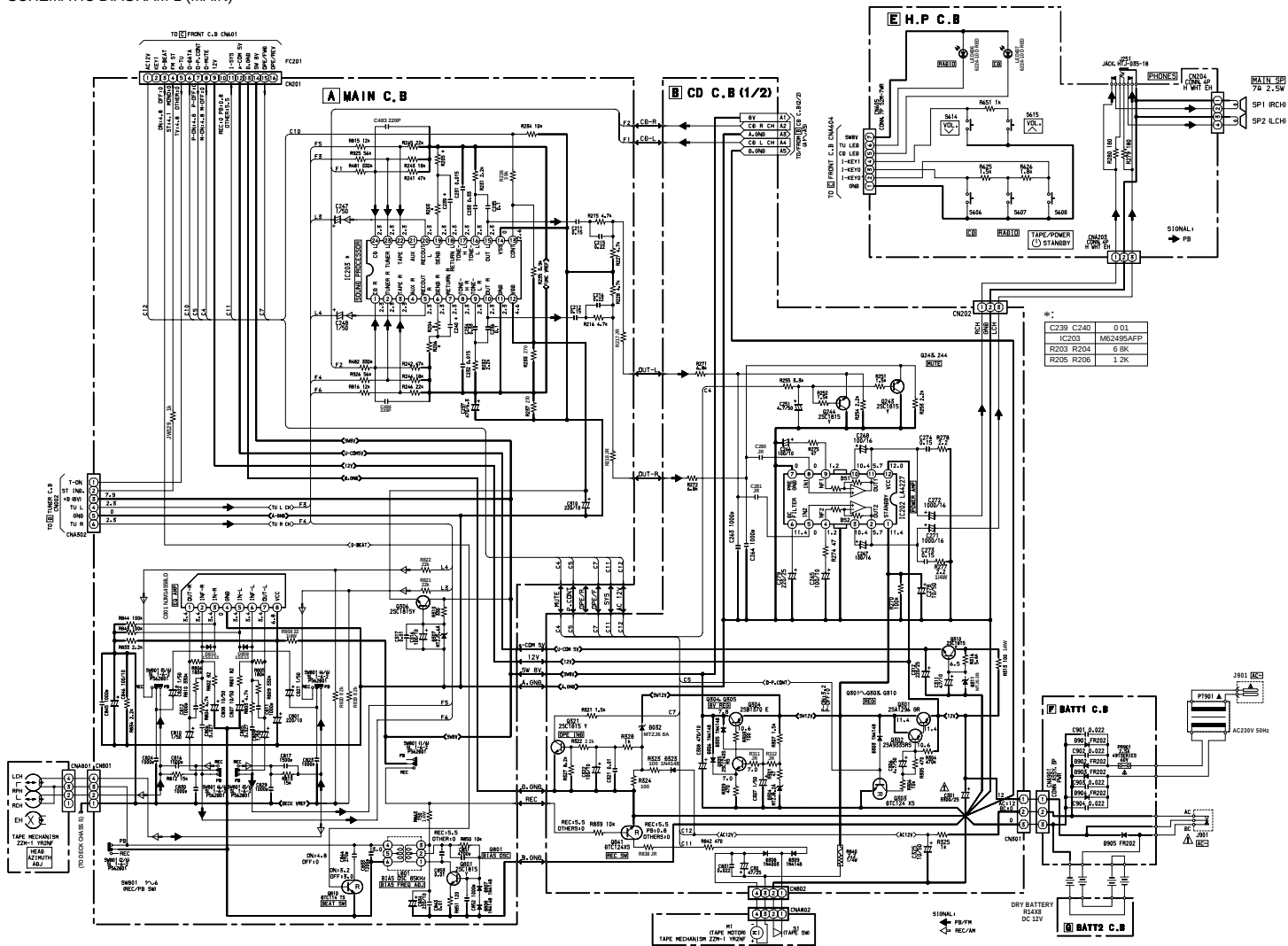
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
FRONT C.B			
C601	87-010-313-080	CAP, CHIP 18P	
C602	87-010-315-080	C-CAP,S 27P-50 CH	
C603	87-010-319-080	C-CAP,S 56P-50 CH	
C604	87-010-317-010	CHIP CAP,S 39P CH	
C605	87-010-264-040	CAP,E 100-10 5L	
C606	87-012-368-080	C-CAP,S 0.1-50 F	
C607	87-015-779-010	CHIP CAPACITOR, 0.01	
C608	87-010-415-080	CAP ELE SRE 10-50V	
C609	87-010-493-080	CAP,E 0.47-50 GAS	
C611	87-A10-189-040	CAP,E 220-10	
C613	87-012-368-080	C-CAP,S 0.1-50 F	
C614	87-010-312-080	C-CAP,S 15P-50 CH	
C627	87-015-779-010	CHIP CAPACITOR, 0.01	
C628	87-015-779-010	CHIP CAPACITOR, 0.01	
C629	87-015-779-010	CHIP CAPACITOR, 0.01	
C630	87-010-264-040	CAP,E 100-10 5L	
C631	87-015-779-010	CHIP CAPACITOR, 0.01	
CN601	87-099-757-010	CONN,16P 9604S F	
CN602	87-A60-079-010	CONN,08P H 9604S-08F	
CNA604	8A-CDA-623-010	CONN ASSY,7P KEY	
JW603	87-008-372-080	FILTER, EMI BL OIRNI	
JW605	87-003-097-080	COIL,1UH	
JW606	87-003-097-080	COIL,1UH	
JW608	87-003-097-080	COIL,1UH	
JW627	87-008-372-080	FILTER, EMI BL OIRNI	
JW633	87-003-098-080	COIL,2.2UH	
L601	87-003-098-080	COIL,2.2UH	
LED611	87-CD8-616-010	LED,SA36-11 HWA-11.0	
S601	87-A91-704-080	SW,TACT EVQ 214 05R	
S602	87-A91-704-080	SW,TACT EVQ 214 05R	
S603	87-A91-704-080	SW,TACT EVQ 214 05R	
S604	87-A91-704-080	SW,TACT EVQ 214 05R	
S605	87-A91-704-080	SW,TACT EVQ 214 05R	
S611	87-A91-704-080	SW,TACT EVQ 214 05R	
X601	87-030-273-010	VIB,XTAL 32.768K5PPM	
X602	87-030-376-080	VIB,CER CSA5.76MG200	
TUNER C.B			
C1	87-010-314-080	C-CAP,S 22P-50V<GSC>	
C1	87-010-313-080	CAP, CHIP 18P<VSC>	
C2	87-010-316-080	C-CAP,S 33P-50 CH	
C3	87-010-314-080	C-CAP,S 22P-50V<GSC>	
C3	87-010-313-080	CAP, CHIP 18P<VSC>	
C4	87-010-148-080	CAP, CHIP S 4P-50 C CH<VSC>	
C5	87-010-378-080	CAP, ELECT 10-16V	
C7	87-012-154-080	C-CAP,S 150P-50 CH<VSC>	
C7	87-012-156-080	C-CAP,S 220P-50 CH<GSC>	
C8	87-010-992-080	C-CAP,S 0.047-25 B<VSC>	
C8	87-010-197-080	CAP, CHIP 0.01 DM<GSC>	
C9	87-010-311-080	CAP 12P<GSC>	
C9	87-010-154-080	CAP CHIP 10P<VSC>	
C10	87-010-197-080	CAP, CHIP 0.01 DM	
C11	87-010-327-080	C-CAP,S 4P-50 UJ<VSC>	
C11	87-010-152-080	C-CAP,S 8P-50 CH<GSC>	
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-50 C CH	
C15	87-016-669-080	C-CAP,S 0.1-25 K B	
C16	87-010-178-080	CHIP CAP 1000P<GSC>	
C17	87-016-669-080	C-CAP,S 0.1-25 K B	
C18	87-016-669-080	C-CAP,S 0.1-25 K B<VSC>	
C18	87-010-198-080	CAP, CHIP 0.022<GSC>	
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	87-010-189-080	C-CAP,S 8200P-50 B<VSC>	

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C25	87-010-189-080	C-CAP,S 8200P-50 B<VSC>		L53	87-A50-650-010		COIL,FM1 OSC V(ACD)<VSC>
C26	87-012-358-080	C-CAP,S 0.47-10 F Z		PVC1	87-A91-635-010		TUN-CAP,20P-140P E-ACD(MITSUMI
C27	87-012-358-080	C-CAP,S 0.47-10 F Z					<GSC>
C28	87-010-992-080	C-CAP,S 0.047-25 B<VSC>		PVC1	87-A91-169-010		TUN-CAP,40P-140P FA-22124 AN00
C28	87-010-992-080	C-CAP,S 0.047-25 B<GSC>					<VSC>
C29	87-010-992-080	C-CAP,S 0.047-25 B<GSC>		SW1	87-A91-884-010		SW,SL-4-4 SK44D01G6A<VSC>
C29	87-010-992-080	C-CAP,S 0.047-25 B<VSC>		SW1	87-A91-549-010		SW,SL-6-4 SK64D01G06<GSC>
C30	87-010-248-080	CAP, ELECT 220-10V		TC5	87-011-253-080		TRIMER,30P LAR<GSC>
C31	87-010-379-080	CAP, ELECT 22-16V		TC6	87-011-253-080		TRIMER,30P LAR<GSC>
C32	87-010-197-080	CAP, CHIP 0.01 DM		TC51	87-011-253-080		TRIMER,30P LAR<VSC>
				TC52	87-011-253-080		TRIMER,30P LAR<VSC>
C33	87-010-197-080	CAP, CHIP 0.01 DM		HP C.B			
C34	87-010-197-080	CAP, CHIP 0.01 DM		CN204	87-A60-685-010		CONN,4P H WHT EH
C35	87-010-197-080	CAP, CHIP 0.01 DM		CN605	87-A60-117-010		CONN,7P H S2M-7WR
C36	87-010-263-080	CAP, ELECT 100-10V		CNA203	8A-CDA-628-110		CONN ASSY,4P MA-HP
C37	87-010-197-080	CAP, CHIP 0.01 DM		J251	87-A60-569-010		JACK,HTJ-035-18
C38	87-010-197-080	CAP, CHIP 0.01 DM<GSC>		S606	87-A90-696-080		SW,TACT TS2103-03-430
C41	87-010-321-080	CHIP CAPACITOR,82P(J)<GSC>					
C42	87-010-150-080	C-CAP,S 6P-50 CH<GSC>		S607	87-A90-696-080		SW,TACT TS2103-03-430
C44	87-012-140-080	CAP 470P<GSC>		S608	87-A90-696-080		SW,TACT TS2103-03-430
C51	87-010-197-080	CAP, CHIP 0.01 DM		S614	87-A90-696-080		SW,TACT TS2103-03-430
				S615	87-A90-696-080		SW,TACT TS2103-03-430
C52	87-010-316-080	C-CAP,S 33P-50 CH<VSC>		BATT1 C.B			
C53	87-010-341-080	C-CAP,S47P-50UJ<VSC>		C901	87-010-192-080		C-CAP,S 0.022-50 F
C54	87-010-197-080	CAP, CHIP 0.01 DM<VSC>		C902	87-010-192-080		C-CAP,S 0.022-50 F
C56	87-010-331-080	C-CAP,S 8P-50 UJ<VSC>		C903	87-010-192-080		C-CAP,S 0.022-50 F
C57	87-010-197-080	CAP, CHIP 0.01 DM<VSC>		C904	87-010-192-080		C-CAP,S 0.022-50 F
				CNA901	8A-CDA-627-010		CONN ASSY,3P PWR
C61	87-010-318-080	C-CAP,S 47P-50 CH<VSC>		PR901	87-A90-092-080		PROTECTOR,2.5A 491
CF1	87-A90-128-010	FLTR,AM IF CFAL-455		SP901	87-CD6-213-010		SPR-C,BATT (-)
CF2	87-008-261-010	FILTER, SFE10.7MA5-A		SP902	87-CD6-213-010		SPR-C,BATT (-)
CF3	87-008-261-010	FILTER, SFE10.7MA5-A					
CN2	87-A60-116-010	CONN,6P H S2M-6WR		BATT2 C.B			
L2	87-A50-560-010	COIL,FM BPF(ACD)		SP903	87-CD6-213-010		SPR-C,BATT (-)
L3	8A-CD9-660-010	BAR-ANT,MW 2B-ACD(COI)<VSC>		SP904	87-CD6-213-010		SPR-C,BATT (-)
L3	8A-CD9-661-010	BAR-ANT,MW/LW 3B-ACD(COI)<GSC>					
L4	87-A50-562-010	COIL,FM RF EX(ACD)<GSC>					
L4	87-A50-647-010	COIL,FM2 RF V(ACD)<VSC>					
L5	87-A50-564-010	COIL,FM OSC EX(ACD)<GSC>					
L5	87-A50-649-010	COIL,FM2 OSC V(ACD)<VSC>					
L6	87-A50-337-010	COIL,AM OSC (TOKO)<VSC>					
L7	87-A50-579-010	COIL,AM IFT(ACD)					
L8	87-A50-335-010	COIL,FM IFT (TOKO)					
				MOTOR C.B			
L9	87-A50-577-010	COIL,FM DET(ACD)		M2	9X-262-576-910		MOTOR GEAR ASSY
L10	87-005-849-080	COIL,10UH(CECS)		PIN3	91-564-722-110		CONNECTOR 6P
L16	87-A50-569-010	COIL,LW OSC-ACD(COI)<GSC>		SW1	91-572-085-120		LEAF SW
L17	87-A50-337-010	COIL,AM OSC (TOKO)<GSC>					
L52	87-A50-648-010	COIL,FM1 RF V(ACD)<VSC>					

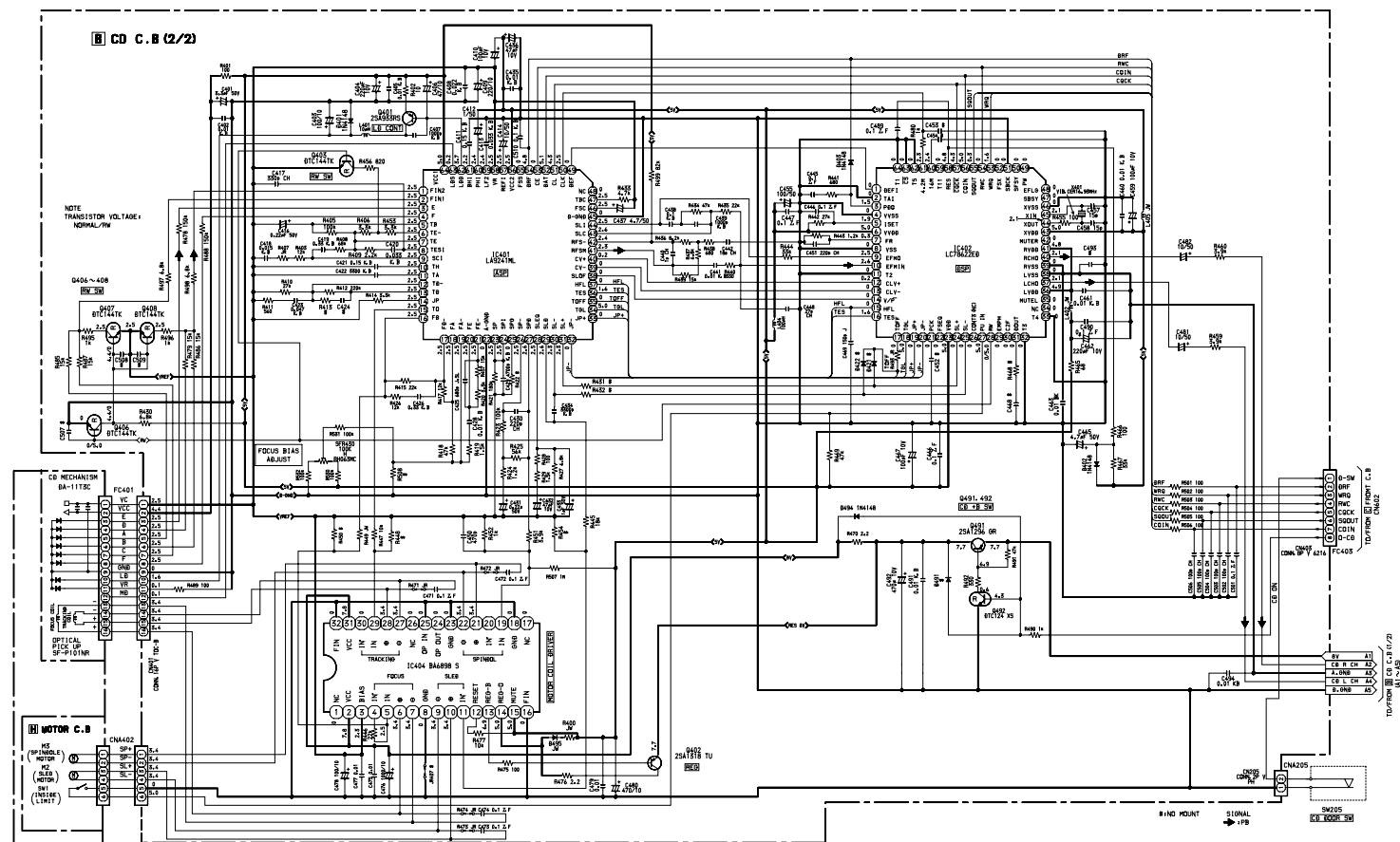
WIRING-1 (MAIN/CD)



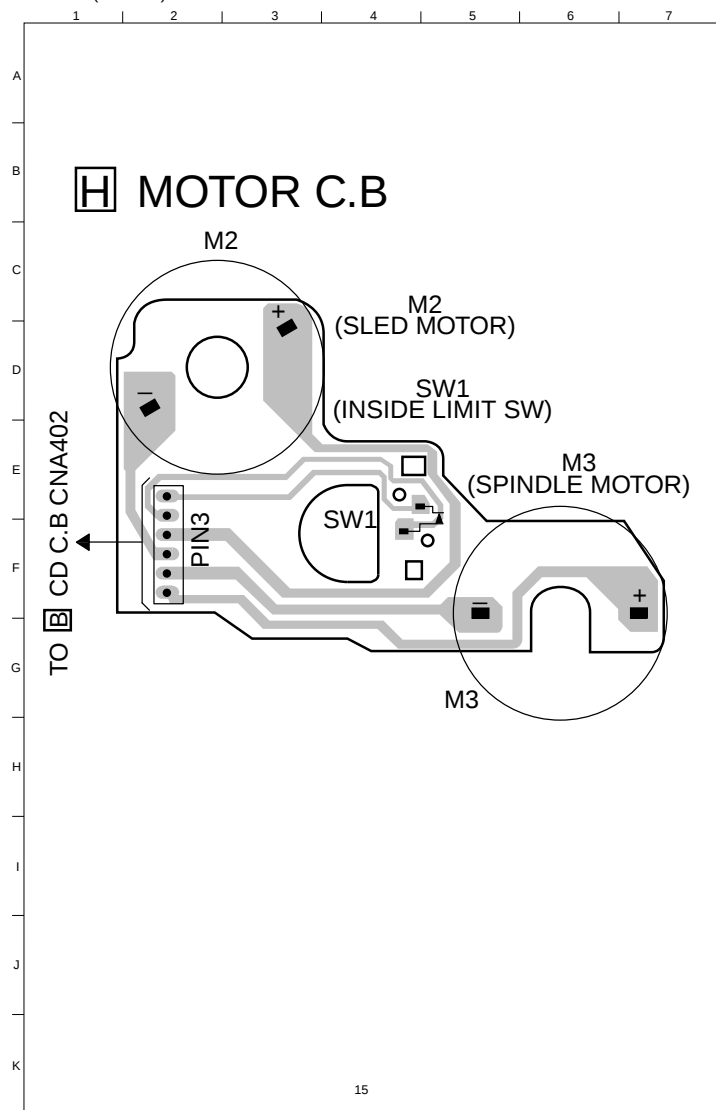
SCHEMATIC DIAGRAM-1 (MAIN)



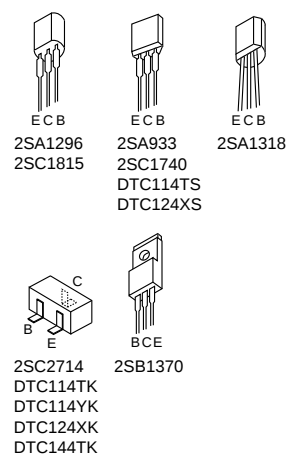
SCHEMATIC DIAGRAM-2 (CD)



WIRING-2 (MOTOR)



TRANSISTOR ILLUSTRATION



0 [A] MAIN C-B CN201

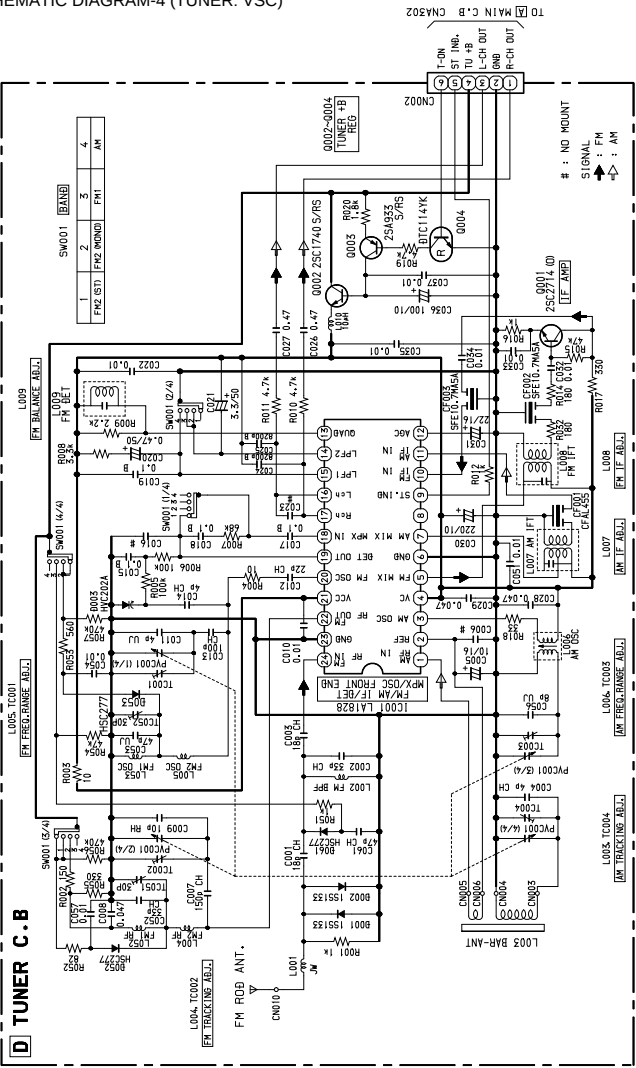


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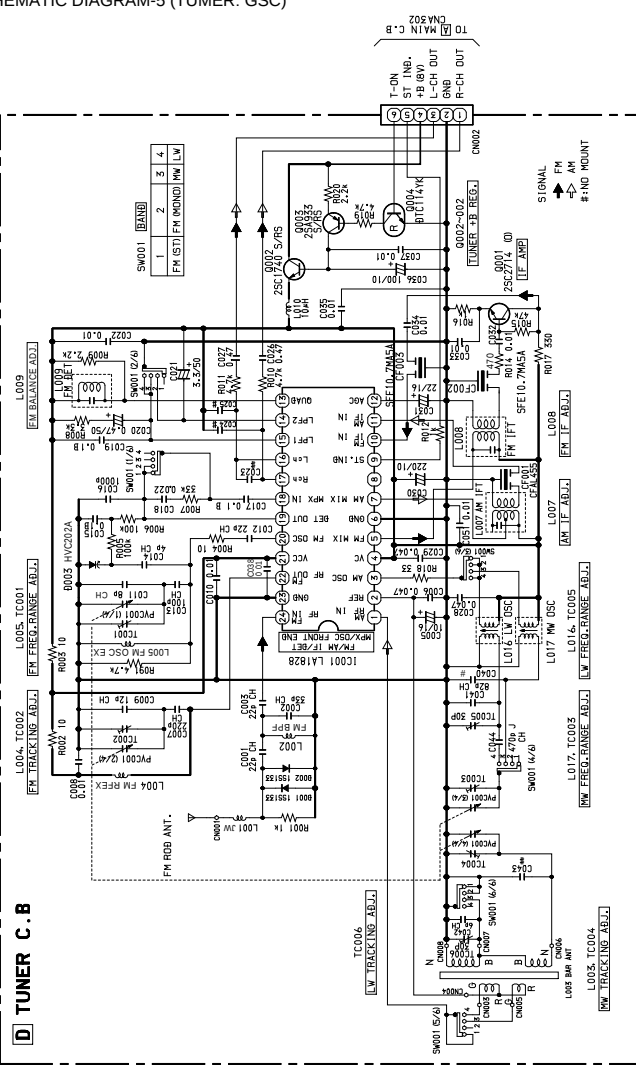
A
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④ TUNER C.B

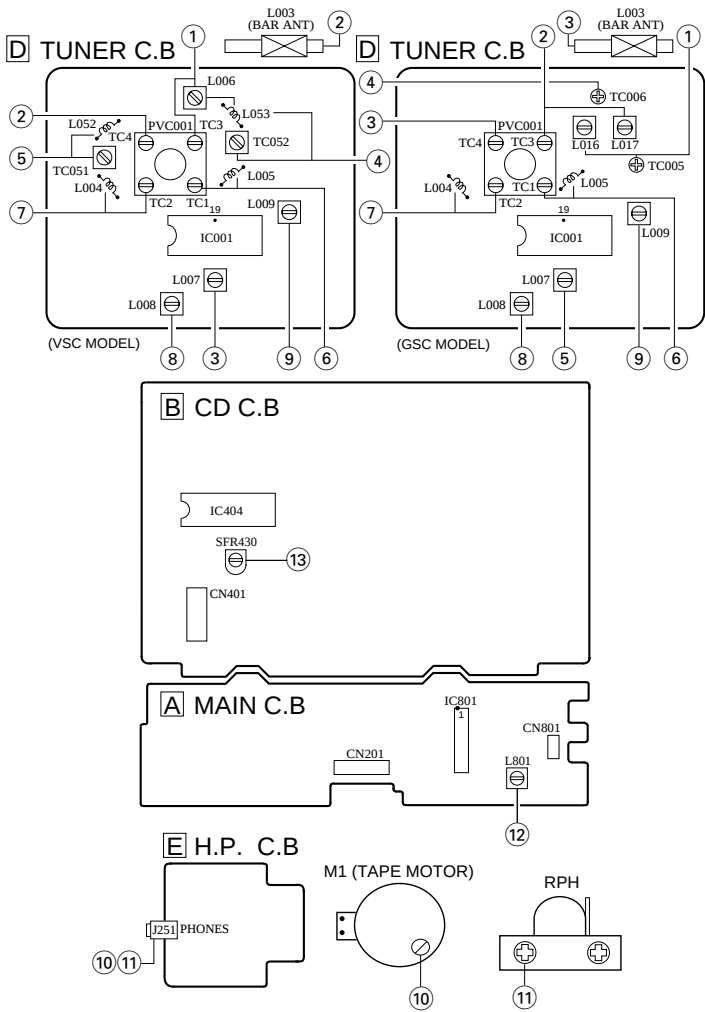
SCHEMATIC DIAGRAM-4 (TUNER: VSC)



SCHEMATIC DIAGRAM-5 (TUNER: GSC)



ELECTRICAL ADJUSTMENT



< TUNER SECTION >

(VSC MODEL)

- | | | |
|---|---------------------------|--|
| 1 | AM Freq Range Adjustment | |
| | L006 | 530kHz |
| | TC003 | 1605kHz |
| 2 | AM Tracking Adjustment | |
| | L003 | 603kHz |
| | TC004 | 1404kHz |
| 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 | |
| | L053 | 65 0MHz |
| | TC052 | 74 0MHz |
| 5 | FM1 Tracking Adjustment | |
| | L052 | 65 0MHz |
| | TC051 | 74 0MHz |
| 6 | FM2 Freq Range Adjustment | |
| | L005 | 87 5MHz |
| | TC001 | 108 0MHz |
| 7 | FM2 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 |

(GSC MODEL)

- | | | |
|---|--------------------------|---------|
| 1 | LW Freq Range Adjustment | |
| | L016 | 150kHz |
| | TC005 | 285kHz |
| 2 | MW Freq Range Adjustment | |
| | L017 | 530kHz |
| | TC003 | 1605kHz |
| 3 | MW Tracking Adjustment | |
| | L003 | 603kHz |
| | TC004 | 1404kHz |
| 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 5MHz |
| TC001 | 108 0MHz |

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 $\pm$ 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 $\pm$ 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 >

< FM1 SECTION > (VSC)

Sensitivity:	Less than 20dB (65.0MHz)
(THD 3%)	Less than 18dB (70.0MHz)
	Less than 20dB (74.0MHz)
Signal to Noise Ratio:	More than 60dB (at 70.0MHz)
(Input 60dB)	
Distortion:	Less than 2.0% (at 70.0MHz)
(Input 60dB)	
Intermediate frequency:	10.7MHz $\pm$ 0.1MHz

< FM2 SECTION > (VSC/GSC)

Sensitivity:	Less than 18dB (87.5MHz)
(THD 3%)	Less than 18dB (98.0MHz)
	Less than 18dB (108.0MHz)
Signal to Noise Ratio:	More than 60dB (at 98.0MHz)
(Input 60dB)	
Distortion:	Less than 2.0% (at 98.0MHz)
(Input 60dB)	
Intermediate frequency:	10.7MHz $\pm$ 0.1MHz
Stereo separation:	More than 25dB (at 98.0MHz)

< AM SECTION > (VSC/GSC)

Sensitivity:	Less than 48dB (at 603kHz)
(S/N 10dB)	Less than 46dB (at 999kHz)
	Less than 44dB (at 1404kHz)
Distortion:	Less than 3.0%
(Input 74dB)	
Intermediate frequency:	455kHz $\pm$ 3.5kHz

< LW SECTION > (GSC)

Sensitivity:	Less than 60dB (at 153kHz)
(S/N 10dB)	Less than 56dB (at 198kHz)
	Less than 52dB (at 288kHz)
Signal to Noise Ratio:	More than 30dB
Distortion:	Less than 3.0% (at 198kHz)
(Input 80dB)	

< CASSETTE SECTION > (VSC/GSC)

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	NC		No connection.
24	SP	O	Signal ended output of the CV+ and CV pin input signal.
25	SPG	I	Pin to which external spindle gain setting resistor in 12 cm mode is connected.
26	SP	I	Pin to which external spindle phase compensation constants are connected together with SPD pin.
27	SPD	O	Spindle control signal output pin.
28	SLEQ	I	Pin to which external sled phase compensation constants are connected.
29	SLD	O	Sled control signal output pin.
30, 31	SL , SL+	I	Sled advance signal input pin from microprocessor.
32, 33	JP , JP+	I	Tracking jump signal input pin from DSP.
34	TGL	I	Tracking gain control signal input from DSP. Low gain when TGL = H.
35	TOFF	I	Tracking off control signal input pin from DSP. Off when TOFF = H.

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

IC, LC78622ED

Pin No.	Pin Name	I/O	Description	
1	DEFI	I	Defect sense signal (DEF) input pin. (Connect to 0V when not used).	
2	TAI	I	For PLL.	Test signal input pin with built in pull down resistor. Be sure to connect to 0V.
3	PDO	O		Phase comparator output pin to control external VCO.
4	VVSS			GND pin for built in VCO. Be sure to connect to 0V.
5	ISSET	I		Pin to which external resistor adjusting the PD0 output current.
6	VVDD			Power supply pin for built in VCO.
7	FR	I		Pin for VCO frequency range adjustment.
8	VSS		Digital system GND. Be sure to connect to 0V.	
9	EFMO	O	For slice level control.	EFM signal output pin.
10	EFMIN	I		EFM signal input pin.
11	T2	I	Test signal input pin with built in pull down resistor. Be sure to connect to 0V.	
12, 13	CLV+, CLK	O	Disc motor control output. Three level output is possible using command.	
14	V/P	O	Rough servo or phase control automatic selection monitoring output pin. Rough servo at H. Phase servo at L.	
15	HFL	I	Track detect signal input pin. Schmidt input.	
16	TES	I	Tracking error signal input pin. Schmidt input.	
17	TOFF	O	Tracking OFF output pin.	
18	TGL	O	Tracking gain selection output pin. Gain boost at L.	
19, 20	JP+, JP	O	Track jump control signal output pin. Three level output is possible using command.	
21	PCK	O	EFM data playback clock monitoring pin 4.3218 MHz when phase is locked in.	
22	FSEQ	O	Sync signal detection output pin. H when the sync signal which is detected from EFM signal and the sync signal which is internally generated agree.	
23	VDD		Digital system power supply pin.	
24	SL+	O	Moves the sled to outer circumference.	
25	SL	O	Moves the sled to inner circumference.	
26			Not connected.	
27	PUIN	I	CD pickup inner switch detection.	
28	RW	O	Read, 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-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	XT(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 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 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	$\overline{\text{SEG DP}}$	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

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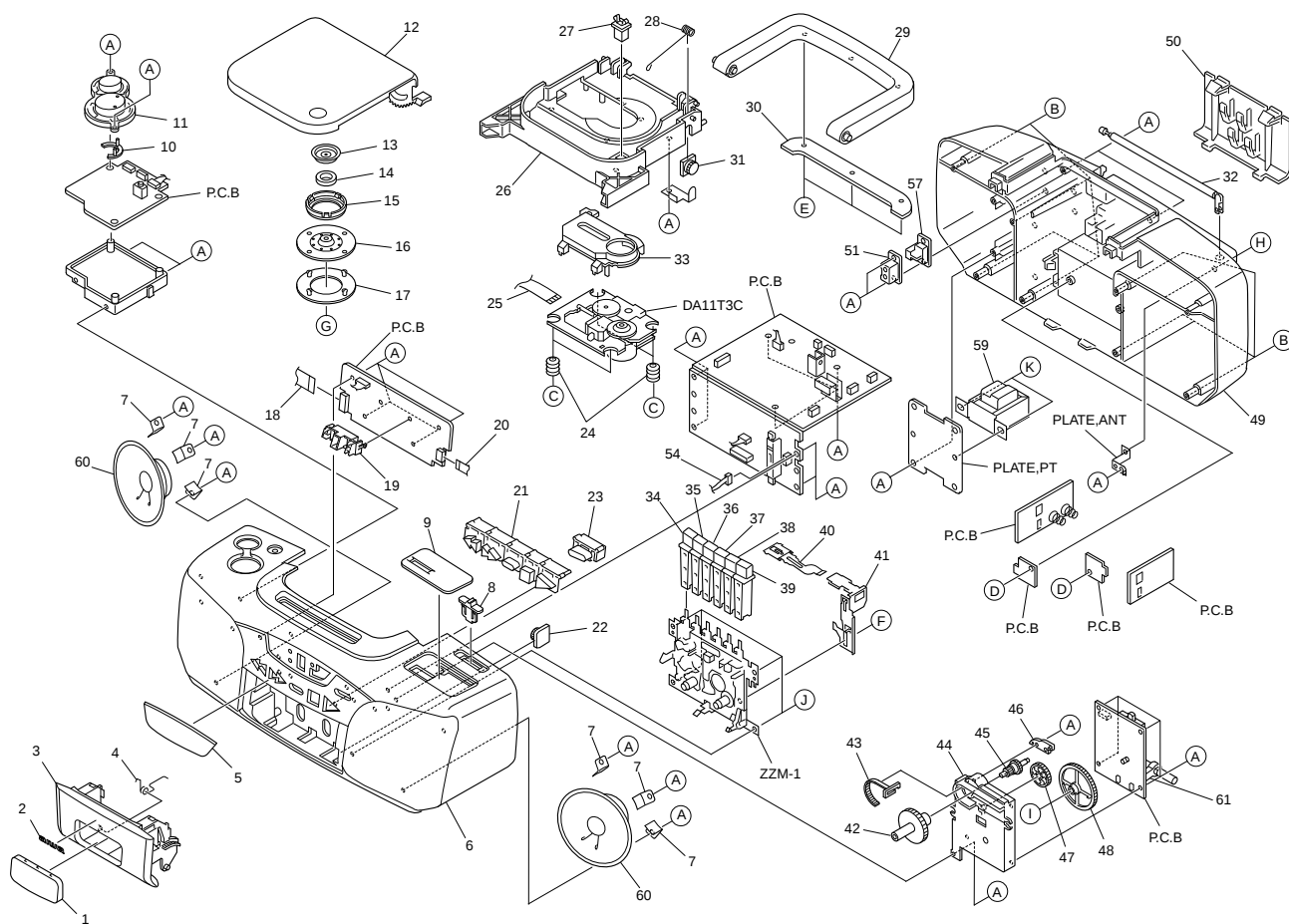
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CDA-062-010		WINDOW,CASS D	34	8A-CDA-027-110		KEY, PAUSE
2	87-B00-010-010		BADGE,AIWA 30.5-5.2 S 2.5L	35	8A-CDA-026-110		KEY, STOP
3	8A-CDA-003-110		LID,CASS	36	8A-CDA-025-110		KEY, FF
4	8A-CDA-212-010		SPR-T,CASS	37	8A-CDA-024-110		KEY, REW
5	8A-CDA-042-010		WINDOW,LED LOW LH	38	8A-CDA-023-110		KEY, PLAY
6	8A-CDA-036-110		CABI ASSY,FRONT LOW EZ<GSC>	39	8A-CDA-022-110		KEY, REC
6	8A-CDA-177-110		CABI ASSY,FRONT V<VSC>	40	8A-CDA-221-010		SPR-P,REC
7	8A-CDA-206-010		HLDR,SPKR	41	8A-CDA-220-010		PLATE,REC
8	8A-CDA-059-110		KNOB,SL BAND EZ	42	8A-CDA-021-110		KNOB,RTRY TU
9	8A-CDA-045-010		WINDOW,TU EZ<GSC>	43	8A-CDA-013-010		POINTER,TU
9	8A-CDA-178-110		WINDOW,TU V<VSC>	44	8A-CDA-201-110		HLDR,TU
10	8A-CDA-007-010		LENS,LED	45	8A-CDA-216-110		GEAR,TU B
11	8A-CDA-019-110		KEY,VOL	46	8A-CDA-203-110		GUIDE,GEAR
12	8A-CDA-061-210		LID,CD D	47	8A-CDA-202-110		GEAR,RELAY
13	8A-CDA-213-010		COVER, CHUCK	48	8A-CDA-215-110		DRUM,TU
14	87-036-368-010		MAGNET	49	8A-CDA-037-110		CABI,REAR LOW
15	8A-CDA-207-110		HLDR,CHUCK	50	8A-CDA-005-110		LID,BATT
16	8A-CDA-150-010		BASE,CHUCK F/M	51	8Z-CD5-634-010		COVER,AC SOCKET
17	88-CD9-211-210		RING,CHUCK	54	8A-CDA-633-010		CONN ASSY,4P SP
18	8A-CDA-620-010		FF-CABLE,16P FR-MAIN	57	87-A60-178-010		JACK,AC E W/SW
19	8A-CDA-208-110		HLDR,LED	59	8A-CDA-612-010		PT,E 2.5W
20	8A-CDA-622-010		FF-CABLE,8P CD-FR	60	8A-CH4-682-010		SPKR,10- 70HM
21	8A-CDA-016-110		KEY,CD	61	88-CD6-661-010		HLDR,BAR ANT.
22	87-063-165-010		OIL-DMPR 150	A	87-721-096-410		QT2+3-10 GLD
23	8A-CDA-017-110		KEY,MODE	B	87-751-104-410		VT2+3-30
24	88-CH6-220-010		CUSHION,CD A	C	8A-CK4-223-010		S-SCREW,CD
25	8A-CDA-621-010		FF-CABLE,16P CD-RF	D	87-751-097-410		SCREW 3X12
26	8A-CDA-012-110		CHAS,CD	E	87-751-076-410		SCREW 2.6-12
27	87-036-389-010		SW,PUSH LOCK	F	8A-CDA-222-010		S-SCREW,CASS+2.6-4
28	8A-CDA-211-010		SPR-T,CD	G	87-253-033-110		SCREW,U+2-4
29	8A-CDA-010-210		HANDL,ARM	H	87-253-097-410		U+3-12 BLK
30	8A-CDA-011-110		HANDL,COVER	I	87-261-073-410		V+2.6-6
31	87-NF8-220-010		DMPR,150	J	87-751-096-410		VT2+3-10 GLD
32	87-A91-857-010		ANT,ROD 5SEC709	K	87-723-074-410		QT2+2.6-8 W/O SLOT BLK
33	8Z-CDB-169-010		PANEL,CD SANYO				

Note: No.52, 53, 55, 56 & 58 is not used.

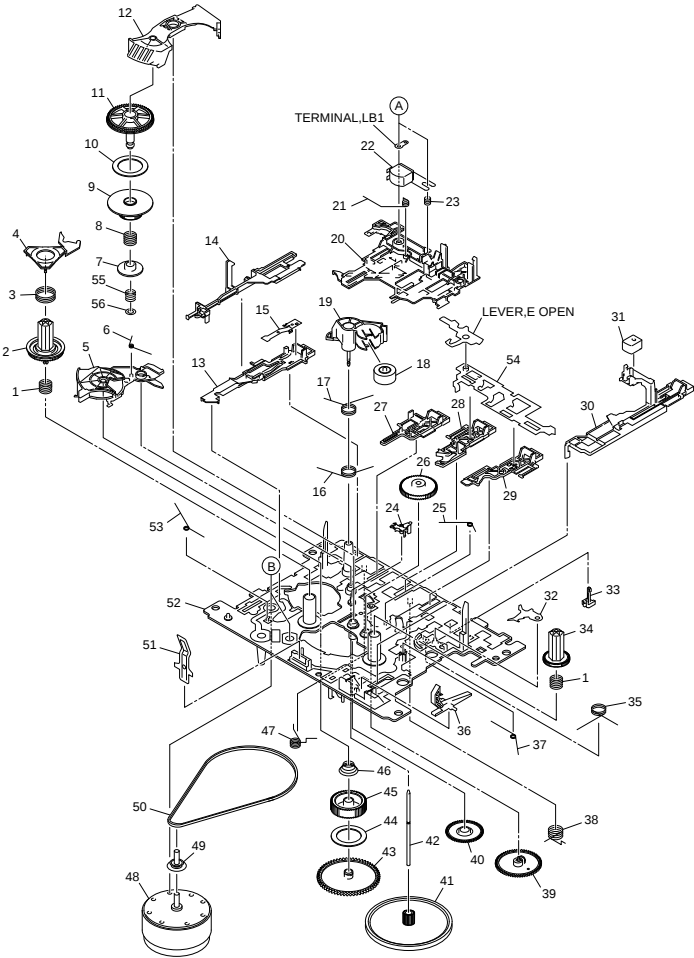
COLOR NAME TABLE

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

MECHANICAL EXPLODED VIEW 1/1



TAPE MECHANISM EXPLODED VIEW 1/1

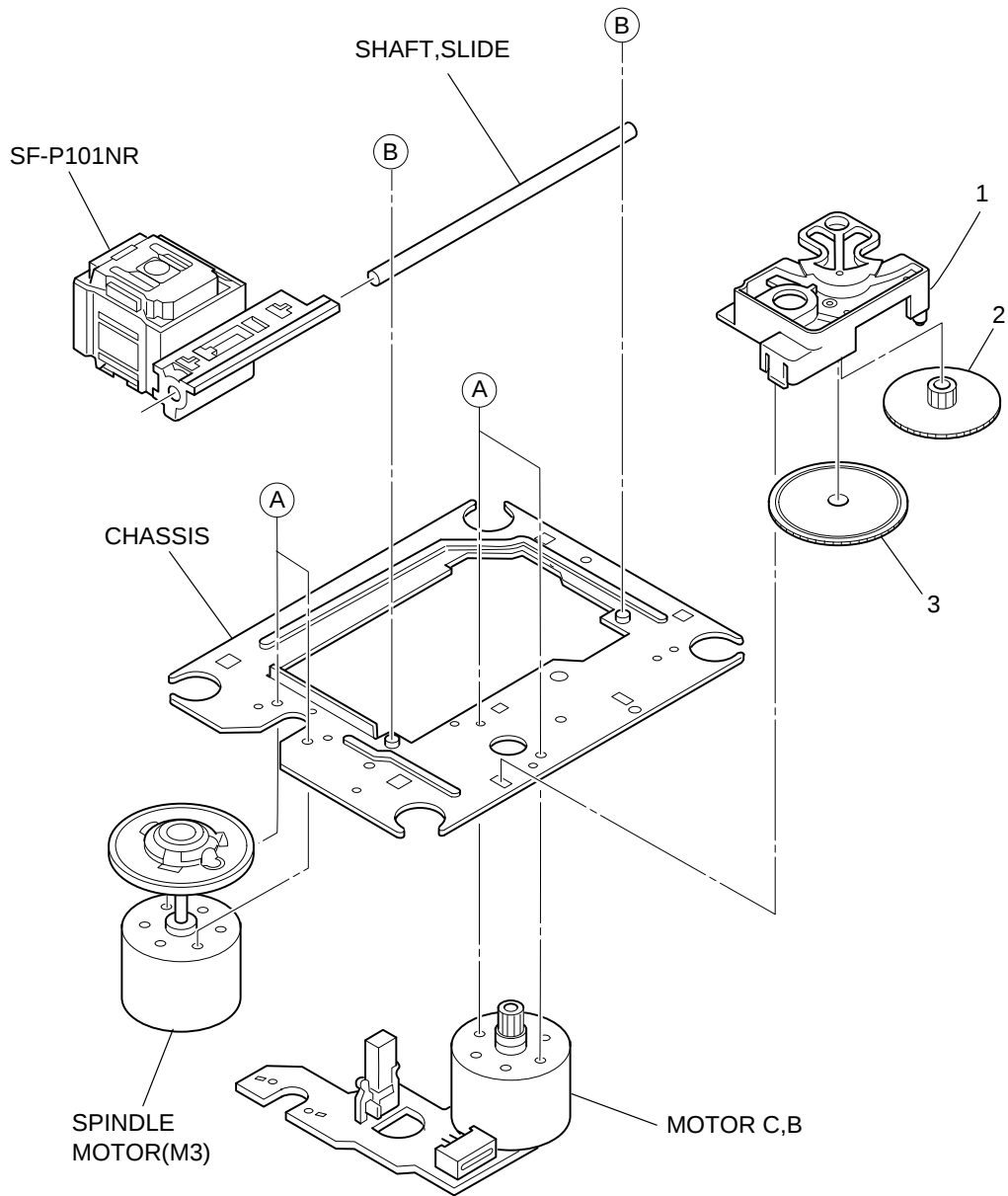


TAPE MECHANISM PARTS LIST 1/1

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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 M8W18560
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-ZM1-223-010		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, B LOCK W	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, B-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

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



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