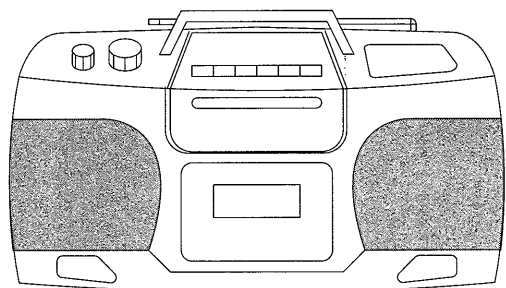


aiwa



CSD-ES327



COMPACT DISC STEREO RADIO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : TN-21ZVC-1812
- BASIC CD MECHANISM : KSM-213 CDM

•TYPE: HR, LH

REVISION PUBLISHING

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" CSD-ES327 (HR,LH) (S/M Code No. 09-991-404-7T1).

SPECIFICATIONS

<Tuner section>

Frequency range	FM: 87.5 MHz to 108.0 MHz Antenna: Rod antenna HR: AM: 530 kHz to 1,605 kHz LH: AM: 530 kHz to 1,710 kHz Antenna: Ferrite bar antenna
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<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)
Outputs	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), DC 12 V using eight size C (R14) batteries
Power requirements	AC 110-120 V/220-240 V, switchable 50/60 Hz
Power consumption	14 W
Dimensions (W x H x D)	422 x 179 x 240.5 mm
Weight	3.6 kg (excluding batteries)

- Design and specifications are subject to change without notice.

ACCESSORIES / PACKAGE LIST

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

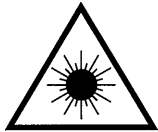
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-CDK-907-010	IB, HR (ECA) B<HR>	
1	8Z-CDK-906-010	IB, LH (ESP) B<LH>	
2	8Z-CDK-952-010	RC UNIT, RC-ZAT02	
△ 3	87-A80-081-010	AC CORD SET ASSY, EZ BLK	

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

WARNING!!

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



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

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

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

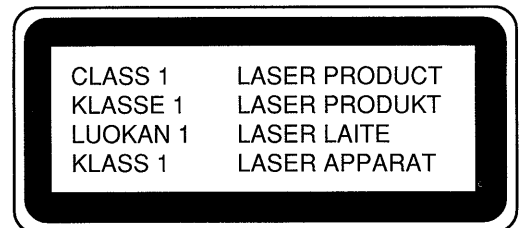
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.

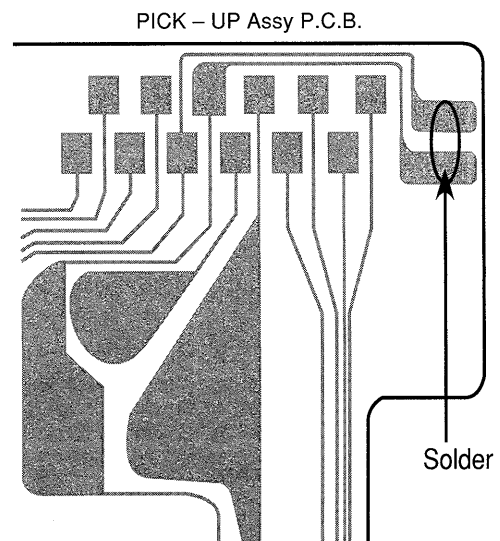


Precaution to replace Optical block

(KSS-213C)

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 right figure.



ELECTRICAL MAIN PARTS LIST

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				C33	87-018-134-080		CAPACITOR, TC-U 0.01-16
				C34	87-018-134-080		CAPACITOR, TC-U 0.01-16
	87-A20-955-010	IC, LA1828		C37	87-018-122-080		CAP, 180P-50 B
	87-A21-145-040	IC, BA45605N		C38	87-A11-080-080		CAP, TC U 47P-50 J CH
	87-A20-446-010	C-IC, LA9241ML		C101	87-A11-134-080		CAP, TC U 0.015
	87-A20-459-010	C-IC, LC78622ED					
	87-A20-856-010	C-IC, BA6898S		C106	87-018-209-080		CAP, CER 0.1-50V
				C107	87-A11-134-080		CAP, TC U 0.015
	87-A20-911-010	IC, RPM6938		C108	87-010-405-080		CAP, ELECT 10-50V
	8Z-CDB-651-010	C-IC, LC865516A-5L84		C112	87-018-196-080		CAP, CER 1500P-16V
	87-070-416-010	IC, NJU7201L55		C113	87-018-196-080		CAP, CER 1500P-16V
TRANSISTOR				C115	87-010-405-080		CAP, ELECT 10-50V
				C116	87-010-137-080		CAP, ELECT 22-25V
	89-319-233-080	TR, 2SC1923 (0.1W)		C118	87-018-130-080		CAP, TC U 820P-50B
	87-026-572-080	TR, DTA114TS		C120	87-018-126-080		CAP, TC U 390P-50B
	87-026-215-080	TR, DTC114YS		C124	87-010-405-080		CAP, ELECT 10-50V
	89-110-155-080	TR, 2SA1015GR					
	87-026-291-080	TR, DTC124XS		C125	87-018-130-080		CAP, TC U 820P-50B
				C127	87-018-126-080		CAP, TC U 390P-50B
	89-112-965-080	TR, 2SA1296GR		C129	87-010-384-080		CAP, ELECT 100-25V
	87-A30-015-080	TR, 2SA1317S		C131	87-010-260-080		CAP, ELECT 47-25V
	87-026-463-080	TR, 2SA933S (0.3W)		C132	87-010-137-080		CAP, ELECT 22-16BP
	87-026-464-080	TR, DTC114TS (0.3W)					
	87-026-496-080	FET, 2SJ103GR		C133	87-018-208-080		CAP, TC U 0.047-50F
				C700	87-016-495-090		CAP, ELECT 3300-25 SMG
	89-328-786-080	TR, 2SC2878B		C701	87-010-405-080		CAP, ELECT 10-50V
	87-A30-167-010	TR, 2SB1566E		C703	87-010-384-080		CAP, ELECT 100-25V
	89-113-184-080	TR, 2SA1318T		C709	87-010-384-080		CAP, ELECT 100-25V
DIODE							
				C710	87-010-384-080		CAP, ELECT 100-25V
	87-020-465-080	DIODE, 1SS133 (110MA)		C719	87-010-400-080		CAP, ELECT 0.47-50V
	87-A40-226-080	VARI-CAP, SVC251SPA		C721	87-010-400-080		CAP, ELECT 0.47-50V
	87-070-345-080	DIODE, IN4148		C723	87-010-405-080		CAP, ELECT 10-50V
	87-A40-465-010	DIODE, FR202		C727	87-010-405-080		CAP, ELECT 10-50V
	87-A40-622-010	LED, L-34HDSL RED					
				C732	87-010-263-080		CAP, ELECT 100-10V
	87-A40-623-010	LED, L-34GDSL GRN		C734	87-010-544-080		CAP, ELECT 0.1-50V
	87-A40-466-080	ZENER, MTZJ2.7A		C736	87-010-221-080		CAP, ELECT 470-10V
	87-A40-249-080	ZENER, MTZJ15A		C738	87-010-260-080		CAP, ELECT 47-25V
	87-A40-346-080	ZENER, MTZJ8.2C		C739	87-018-205-080		CAP, SERA-SOL 0.022
	87-017-932-080	ZENER, MTZJ6.8B					
				C740	87-018-205-080		CAP, SERA-SOL 0.022
	87-070-136-080	ZENER, MTZJ5.1B		C741	87-010-384-080		CAP, ELECT 100-25V
				C742	87-010-260-080		CAP, ELECT 47-25V
				C743	87-018-209-080		CAP, CER 0.1-50V
				C744	87-018-209-080		CAP, CER 0.1-50V
MAIN C.B				C745	87-A10-613-080		CAP, ELECT 1000-16V
				C746	87-010-263-080		CAP, ELECT 100-10V
				C748	87-010-248-010		CAP, ELECT 220-10V
C1	87-A11-073-080	CAP, TC U 22P-50 J CH		C749	87-010-263-080		CAP, ELECT 100-10V
C2	87-A11-076-080	CAP, TC U 33P-50 J CH		C750	87-010-248-010		CAP, ELECT 220-10V
C3	87-A11-073-080	CAP, TC U 22P-50 J CH					
C5	87-018-140-080	CAP, TC U 2.2PF		C751	87-010-263-080		CAP, ELECT 100-10V
C6	87-010-378-080	CAP, ELECT 10-16V		C752	87-018-125-080		CAP, CER 330P-50V
				C753	87-010-248-010		CAP, ELECT 220-10V
C7	87-018-208-080	CAP 0.047-50F		C754	87-010-546-080		CAP, ELECT 0.33-50V
C8	87-018-132-080	CAP, CER 2200P-16V		C756	87-010-405-080		CAP, ELECT 10-50V
C10	87-018-134-080	CAPACITOR, TC-U 0.01-16					
C11	87-018-148-080	CAP, TC-U 12P-50 CH		C757	87-010-405-080		CAP, ELECT 10-50V
C12	87-A11-073-080	CAP, TC U 22P-50 J CH		C758	87-A11-134-080		CAP, TC U 0.015
				C759	87-010-405-080		CAP, ELECT 10-50V
C13	87-018-142-080	CAP, TC-U 3.9P-50 CH		C761	87-010-405-080		CAP, ELECT 10-50V
C14	87-010-400-080	CAP, ELECT 0.47-50V		C762	87-010-546-080		CAP, ELECT 0.33-50V
C15	87-018-134-080	CAPACITOR, TC-U 0.01-16					
C17	87-010-544-080	CAP, ELECT 0.1-50V		C763	87-A11-134-080		CAP, TC U 0.015
C19	87-010-544-080	CAP, ELECT 0.1-50V		C765	87-010-405-080		CAP, ELECT 10-50V
				C768	87-010-405-080		CAP, ELECT 10-50V
C20	87-010-400-080	CAP, ELECT 0.47-50V		C773	87-018-131-080		CAP, CER 1000P-50V
C21	87-010-403-080	CAP, ELECT 3.3-50V		C774	87-018-125-080		CAP, CER 330P-50V
C22	87-018-134-080	CAPACITOR, TC-U 0.01-16					
C23	87-018-132-080	CAP, CER 2200P-16V		C779	87-010-248-080		CAP, ELECT 220-10V
C24	87-018-202-080	CAP. CERAM. 6800PF		CF2	87-008-261-010		FILTER, SFE10.7MA5-A
				CF3	87-008-261-010		FILTER, SFE10.7MA5-A
C25	87-018-202-080	CAP. CERAM. 6800PF		J700	87-009-216-010		JACK, DIA 3.5
C26	87-010-545-080	CAP, ELECT 0.22-50V		L1	87-A50-349-010		COIL, BAR ANT AMW (COI)
C27	87-010-545-080	CAP, ELECT 0.22-50V					
C28	87-018-208-080	CAP 0.047-50F		L2	87-A50-347-010		COIL, FM BPF EX
C29	87-018-208-080	CAP 0.047-50F		L4	87-A50-345-010		COIL, FM RF EX
				L5	87-A50-343-010		COIL, FM OSC EX
C30	87-010-248-080	CAP, ELECT 220-10V		L6	87-A50-337-010		COIL, AM OSC (TOKO)
C31	87-010-379-080	CAP, ELECT 22-16V					
C32	87-018-134-080	CAPACITOR, TC-U 0.01-16					

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
L7	87-A50-336-010		COIL,AM IFT (TOKO)	C246	87-010-263-080		CAP,E 100-10V
L8	87-A50-335-010		COIL,FM IFT (TOKO)	C247	87-010-248-080		CAP,ELECT 220-10V
L9	87-A50-334-010		COIL,FM DET (TOKO)	C248	87-018-205-080		CAP,CERA-SOL 0.022
L10	87-003-102-080		COIL, 10UH	C249	87-018-134-080		CAPACITOR,TC-U 0.01-16
L700	87-007-342-010		COIL,OSC 85K BIAS	C251	87-018-209-080		CAP,CER 0.1-50V
SW1	8Z-CD9-640-010		SW,SL 2-4-2 SK42H01G4	C252	87-010-221-080		CAP,E 470-10V
VC1	87-A90-984-010		TUN-CAP,20P-160P AL-U(TOKO)	C253	87-010-221-080		CAP,E 470-10V
FRONT C.B				C254	87-010-221-080		CAP,E 470-10V
C601	87-018-150-080		CAP,TC-U 18P-50 CH	C255	87-018-134-080		CAPACITOR,TC-U 0.01-16
C602	87-018-150-080		CAP,TC-U 18P-50 CH	C256	87-018-209-080		CAP,CER 0.1-50V
C603	87-018-134-080		CAPACITOR,TC-U 0.01-16	C257	87-018-209-080		CAP,CER 0.1-50V
C604	87-018-209-080		CAP, CER 0.1-50V	C258	87-018-209-080		CAP,CER 0.1-50V
C605	87-010-385-080		CAP, ELECT 220-25V	C259	87-018-209-080		CAP,CER 0.1-50V
C611	87-010-401-080		CAP, ELECT 1-50V	C260	87-010-405-080		CAP,E 10-50V
C612	87-010-400-080		CAP, ELECT 0.47-50V	C261	87-010-405-080		CAP,E 10-50V
C620	87-018-195-080		CAP, CER 1200P-16V	C262	87-010-263-080		CAP,ELECT 100-10V
C621	87-010-263-080		CAP, ELECT 100-10V	C263	87-018-131-080		CAP,CER 1000P-50V
C622	87-018-134-080		CAPACITOR,TC-U 0.01-16	C264	87-018-209-080		CAP,CER 0.1-50V
C685	87-A11-078-080		CAP,TC U 39P-50 J CH	C265	87-A11-076-080		CAP,TC U 33P-50 J CH
C686	87-A11-078-080		CAP,TC U 39P-50 J CH	C269	87-018-209-080		CAP,CER 0.1-50V
LED600	87-A91-172-010		LED, SA36-11HWA-11.0MM RED	C270	87-018-209-080		CAP,CER 0.1-50V
LED601	87-A91-172-010		LED, SA36-11HWA-11.0MM RED	C271	87-018-119-080		CAP,CER 100P-50V
S601	87-A90-164-080		SW,TACT SKQAB(N)	C272	87-018-119-080		CAP,CER 100P-50V
S602	87-A90-164-080		SW,TACT SKQAB(N)	C273	87-018-119-080		CAP,CER 100P-50V
S603	87-A90-164-080		SW,TACT SKQAB(N)	C274	87-018-119-080		CAP,CER 100P-50V
S604	87-A90-164-080		SW,TACT SKQAB(N)	C275	87-018-119-080		CAP,CER 100P-50V
S605	87-A90-164-080		SW,TACT SKQAB(N)	C276	87-018-119-080		CAP,CER 100P-50V
X601	87-030-273-010		VIB,XTAL 32.768K5PPM	C277	87-018-134-080		CAPACITOR,TC-U 0.01-16
X602	87-030-376-080		VIB,CER CSA5.76MG200	C278	87-010-370-080		CAP,E 330-6.3 SME
CD MAIN C.B				C281	87-018-123-080		CAP,CER 220P-50V
C138	87-010-404-080		CAP,ELECT 4.7-50V	CN410	87-A60-465-010		CONN,16P V TOC-B-G2
C200	87-018-134-080		CAPACITOR,TC-U 0.01-16	CNA330	8Z-CD9-617-010		CONN ASSY,2P CD DOOR
C201	87-018-134-080		CAPACITOR,TC-U 0.01-16	L200	87-003-102-080		COIL,10UH
C202	87-010-403-080		CAP,ELECT 3.3-50V	LED600	87-A91-172-010		SA36-11HWA
C203	87-010-263-080		CAP,E 100-10V	S200	8Z-CD9-608-010		SW,SL 2-2-3 SK23D02G6
C204	87-018-134-080		CAPACITOR,TC-U 0.01-16	W701	8Z-CD9-628-010		FF-CABLE,16P 1.0
C205	87-018-131-080		CAP,CER 1000P-50V	X200	81-592-641-080		CERALOCK 16.93MHZ
C206	87-010-374-080		CAP,ELECT 47-10V	3EQ C.B			
C207	87-010-401-080		CAP,ELECT 1-50V	S611	87-A90-164-080		SW,TACT SKQAB(N)
C211	87-010-545-080		CAP,ELECT 0.22-50V	BATT C.B			
C212	87-018-125-080		CAP,CER 330P-50V	C400	87-018-205-080		CAP,CERA-SOL 0.022
C215	87-018-134-080		CAPACITOR,TC-U 0.01-16	C401	87-018-205-080		CAP,CERA-SOL 0.022
C217	87-010-248-080		CAP,ELECT 220-10V	C402	87-018-205-080		CAP,CERA-SOL 0.022
C218	87-010-401-080		CAP,ELECT 1-50V	C403	87-018-205-080		CAP,CERA-SOL 0.022
C220	87-010-405-080		CAP,ELECT 10-50V	KEY C.B			
C221	87-018-134-080		CAPACITOR,TC-U 0.01-16	S600	87-A90-815-010		SW,PUSH 2-2-6 SPUN19-S-501
C222	87-018-134-080		CAPACITOR,TC-U 0.01-16	S601	87-A90-146-010		SW,SL 1-1-2
C223	87-010-374-080		CAP,ELECT 47-10V	S606	87-036-385-010		SW,TACT SKHHLM
C224	87-010-404-080		CAP,ELECT 4.7-50V	S607	87-036-385-010		SW,TACT SKHHLM
C226	87-018-131-080		CAP,CER 1000P-50V	S608	87-036-385-010		SW,TACT SKHHLM
C227	87-018-209-080		CAP,CER 0.1-50V	S620	87-A90-164-080		SW,TACT SKQAB(N)
C228	87-018-139-080		CAP,TC U 1P-50 CH	S621	87-A90-164-080		SW,TACT SKQAB(N)
C230	87-018-111-080		CAP,CERA-SOL SS 27P	CD MOTOR C.B			
C231	87-018-149-080		CAP,TC U 15P-50 CH	M2	9X-262-576-910		MOTOR GEAR ASSY
C232	87-018-209-080		CAP,CER 0.1-50V	PIN3	91-564-722-110		CONNECTOR,6P
C233	87-018-199-080		CAP,CER 3300P	SW1	91-572-085-120		LEAF SW
C234	87-018-123-080		CAP,CER 220P-50V				
C235	87-018-133-080		CAP,CER 4700P-16				
C236	87-018-129-080		CAP,CER 680P-50V				
C238	87-010-545-080		CAP,ELECT 0.22-50V				
C239	87-010-374-080		CAP,ELECT 47-10V				
C240	87-010-401-080		CAP,ELECT 1-50V				
C241	87-018-121-080		CAP,CER 150P-50V				
C244	87-010-263-080		CAP,E 100-10V				
C245	87-010-221-080		CAP,E 470-10V				

TRANSISTOR ILLUSTRATION



E C B

2SA1296



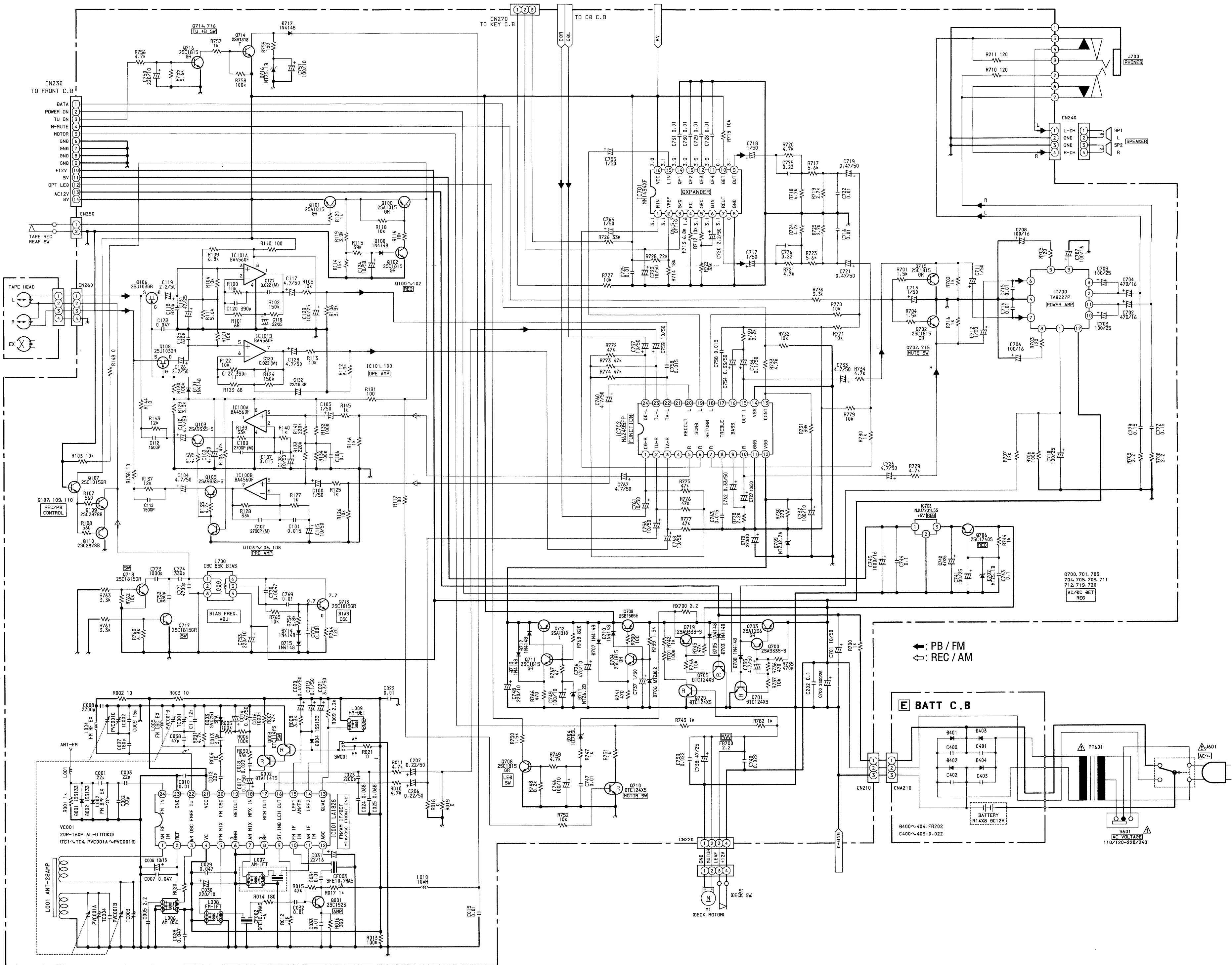
E C B

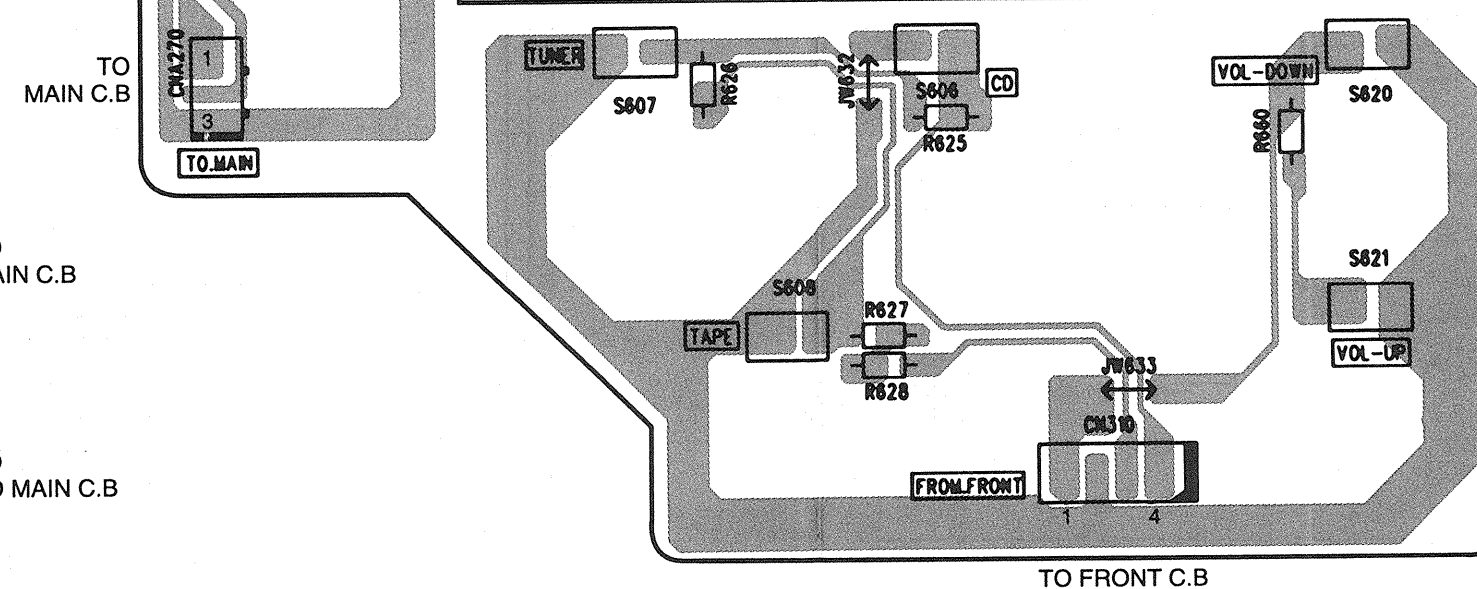
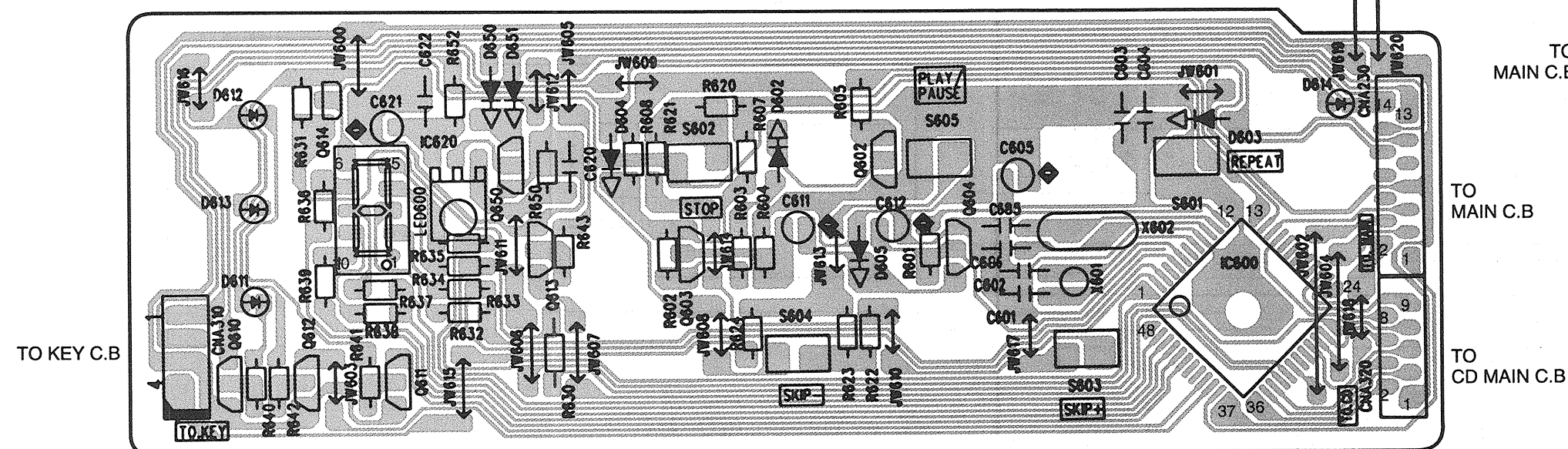
DTC114TS	DTC114YS
DTC124XS	2SA1317
DTA114TS	2SA933S



E C B

2SC1923
2SA1015GR





	→	
R XXX		
	→	
S XXX		
	→	
X XXX		
	→	
X XXX		
	→	
Q XXX		

Q XXX  → 

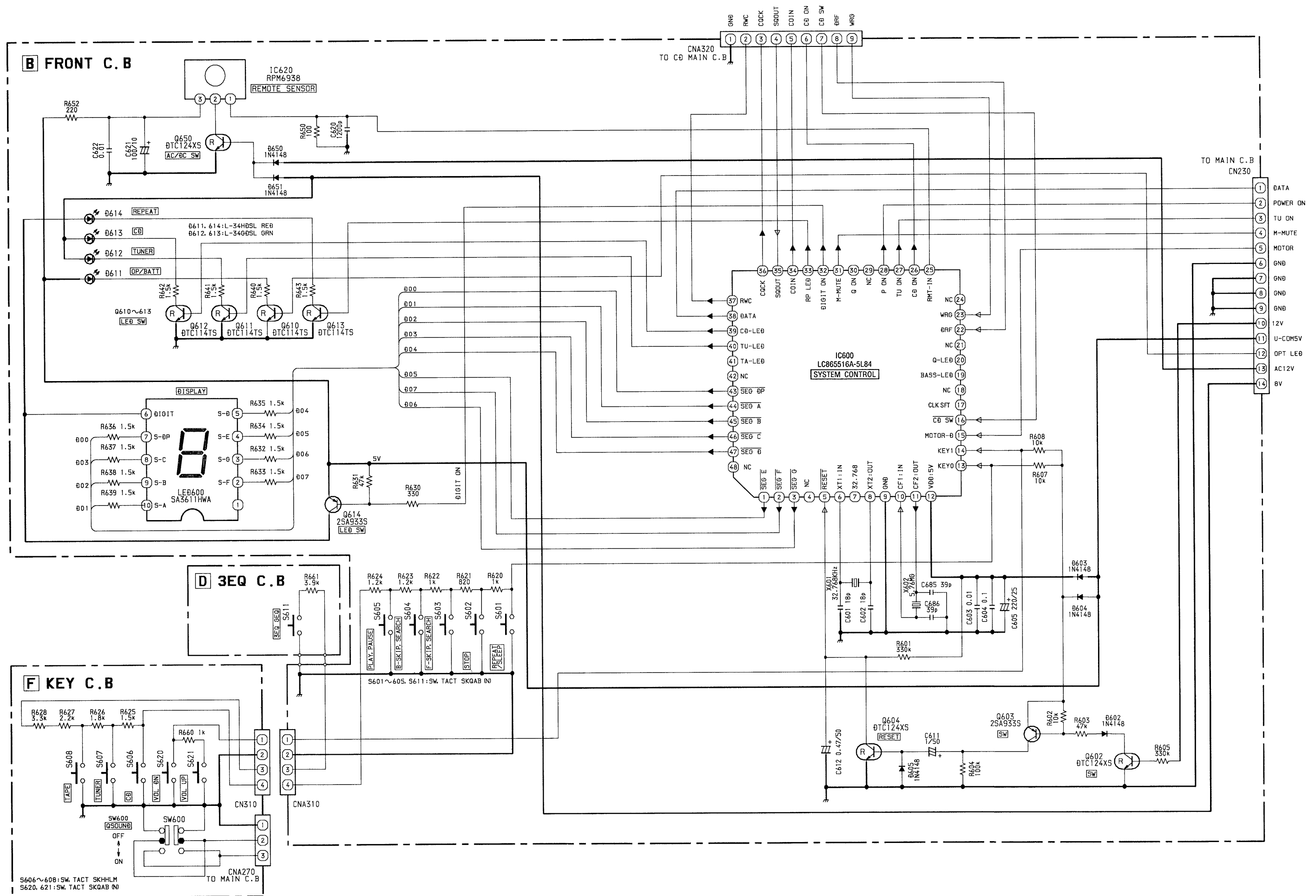
C XXX  → 

C XXX  → 

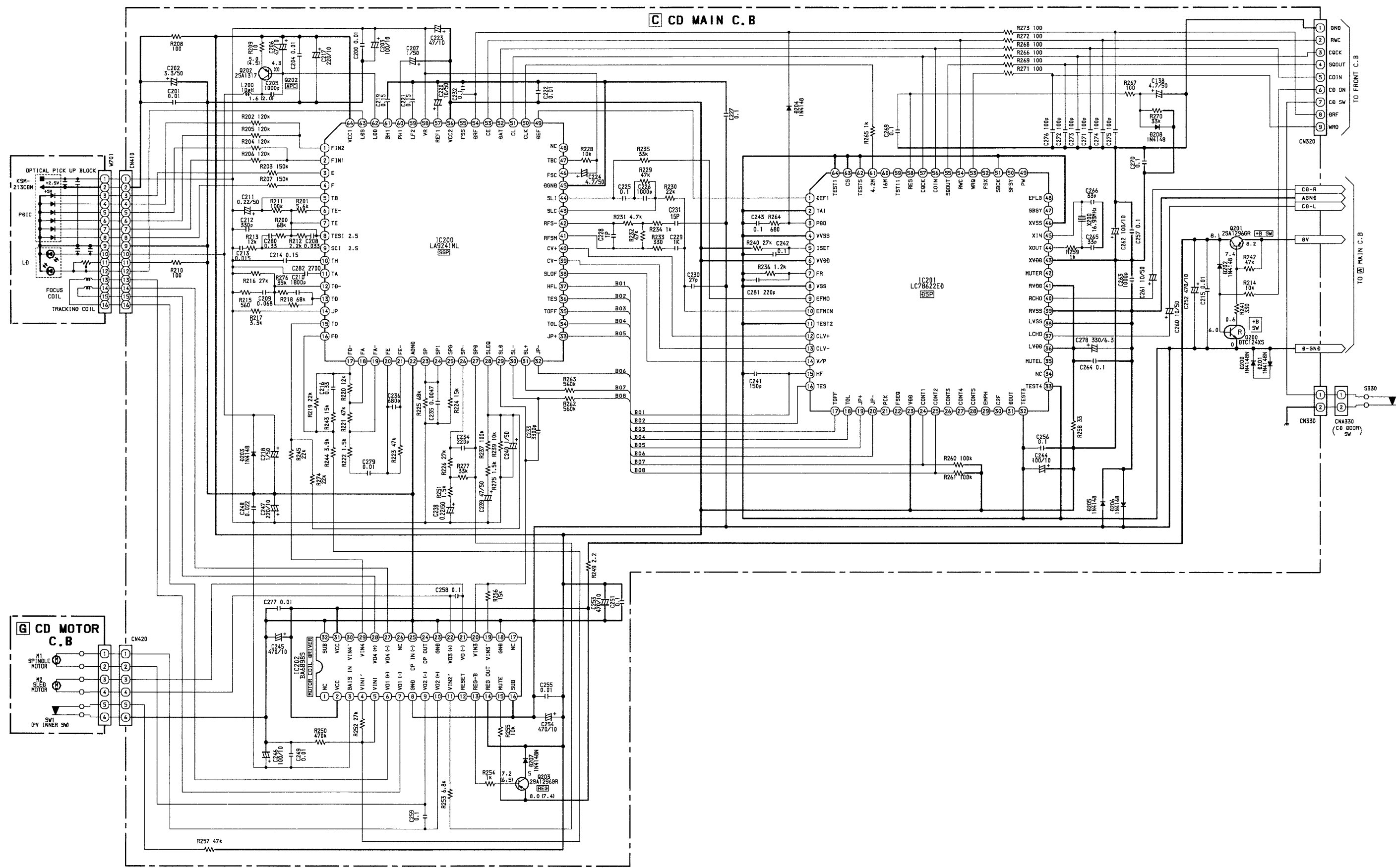
Q XXX  → 

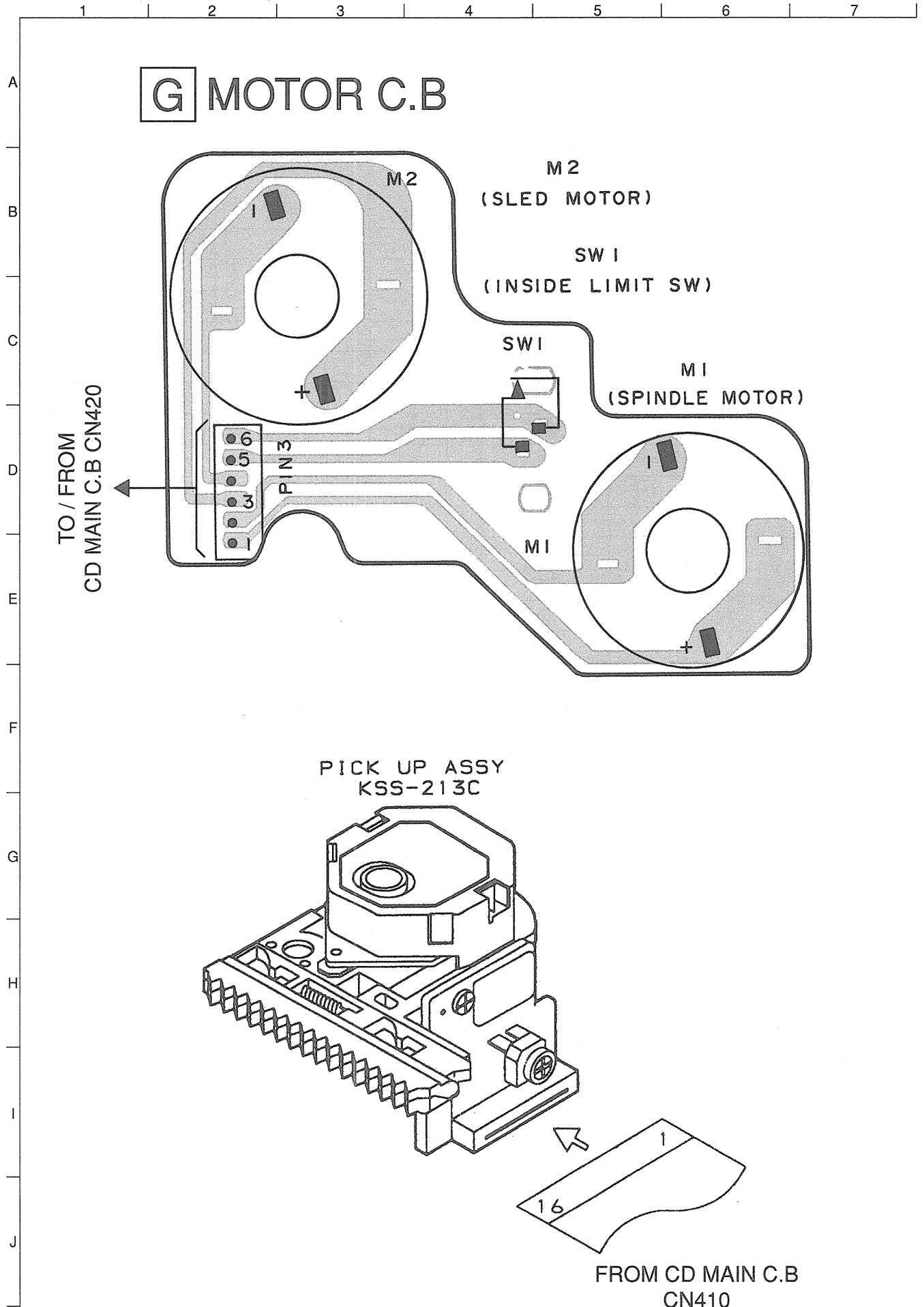
Q XXX  → 

SCHEMATIC DIAGRAM – 2 (FRONT / 3EQ / KEY)



SCHEMATIC DIAGRAM – 3 (CD MAIN / CD MOTOR)





IC VOLTAGE CHART

< CD SECTION > Test condition : CD STOP, PLAY

IC200 S : STOP, P : PLAY, No mark : common

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	2.5	33	S:0.0, P:0.1
2	2.5	34	S:5.0, P:0.8
3	2.5	35	S:5.0, P:0.8
4	2.5	36	S:0.0, P:1.0
5	2.5	37	0.0
6	2.5	38	S:5.0, P:0.1
7	2.5	39	0.0
8	2.5	40	S:0.0, P:0.5
9	2.5	41	S:1.6, P:2.3
10	2.5	42	S:2.5, P:2.4
11	2.5	43	2.5
12	2.5	44	2.5
13	2.5	45	2.5
14	2.5	46	2.5
15	2.5	47	2.5
16	2.5	48	2.5
17	2.5	49	0.0
18	2.5	50	2.5
19	2.5	51	4.7
20	2.5	52	S:4.7, P:4.6
21	2.5	53	S:0.1, P:0.2
22	0.0	54	S:0.3, P:5.0
23	2.5	55	0.0
24	2.5	56	5.0
25	2.5	57	2.5
26	2.5	58	2.5
27	S:2.5, P:2.7	59	S:1.0, P:2.5
28	2.5	60	S:1.0, P:2.5
29	S:2.5, P:2.6	61	2.2
30	S:2.3, P:2.4	62	S:4.3, P:3.7
31	S:2.3, P:2.4	63	S:0.0, P:0.2
32	0.0	64	5.0

IC201 S : STOP, P : PLAY, No mark : common

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	0.0	33	0.0
2	S:0.0, P:0.1	34	0.0
3	S:0.0, P:1.6	35	S:5.0, P:0.0
4	S:0.0, P:0.1	36	4.9
5	S:0.0, P:1.6	37	2.2
6	5.0	38	0.0
7	S:0.1, P:0.4	39	0.0
8	0.0	40	2.2
9	2.5	41	4.9
10	S:2.5, P:2.6	42	S:5.0, P:0.1
11	S:0.0, P:0.1	43	5.0
12	S:0.0, P:0.6	44	2.0
13	S:0.0, P:0.1	45	2.2
14	S:5.0, P:0.1	46	0.0
15	0.0	47	0.1
16	S:0.0, P:1.0	48	2.3
17	S:5.0, P:0.8	49	S:0.0, P:0.2
18	5.0	50	2.5
19	0.0	51	0.0
20	0.0	52	2.5
21	2.5	53	S:0.0, P:0.5
22	S:0.0, P:5.0	54	0.1
23	5.0	55	0.0
24	0.0	56	4.7
25	0.0	57	4.7
26	S:0.0, P:2.1	58	5.0
27	S:0.0, P:2.1	59	0.0
28	0.0	60	2.4
29	S:0.0, P:5.0	61	2.5
30	S:5.0, P:0.1	62	0.0
31	2.5	63	0.0
32	0.0	64	0.0

IC202 S : STOP, P : PLAY, No mark : common

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	0.0	17	S:0.0, P:0.5
2	8.0	18	0.0
3	2.5	19	2.5
4	2.5	20	S:2.5, P:2.6
5	2.5	21	3.7
6	S:3.6, P:3.2	22	S:3.7, P:3.2
7	3.7	23	0.0
8	0.0	24	S:7.4, P:7.0
9	S:3.7, P:3.1	25	0.0
10	S:3.6, P:3.8	26	0.0
11	2.5	27	S:3.7, P:3.4
12	5.0	28	S:3.7, P:3.5
13	S:7.0, P:4.0	29	2.5
14	5.0	30	2.5
15	4.3	31	S:8.0, P:7.4
16	0.0	32	0.0

Q200

Pin Name	Voltage (V)
E	0.0
C	2.0
B	4.3

Q201

Pin Name	Voltage (V)
E	8.0
C	7.9
B	7.2

Q202 S : STOP, P : PLAY

Pin Name	Voltage (V)
E	S:5.0, P:4.5
C	S:1.6, P:2.0
B	S:4.3, P:0.0

Q203 S : STOP, P : PLAY

Pin Name	Voltage (V)
E	S:5.0, P:4.5
C	S:1.6, P:2.0
B	S:4.3, P:0.0

Q612

Pin Name	Voltage (V)
E	0.0
C	0.0
B	4.6

< TUNER SECTION > Test condition : Set tuner on AM, FM

Q001 A : AM, F : FM

Pin Name	Voltage (V)
E	A:0.0, F:1.8
C	A:3.7, F:3.5
B	A:2.7, F:2.5

Q002 A : AM, F : FM

Pin Name	Voltage (V)
E	A:2.4, F:1.3
C	A:0.0, F:1.3
B	A:2.4, F:0.0

Q003 A : AM, F : FM

Pin Name	Voltage (V)
E	A:0.0, F:0.0
C	A:2.4, F:0.0
B	A:0.0, F:4.1

IC001 A : AM, F : FM, M : MONO, S : STEREO

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	A:1.3, F:1.3	13	A:4.4, F:4.0
2	A:1.3, F:1.3	14	M:0.0, S:3.4
3	A:4.4, F:4.1	15	A:0.6, F:3.4
4	A:4.4, F:4.1	16	A:1.3, F:1.3
5	A:4.4, F:4.1	17	A:1.3, F:1.3
6	A:0.0, F:0.0	18	A:1.3, F:1.3
7	A:4.4, F:4.1	19	A:2.8, F:1.3
8	A:0.0, F:0.0	20	A:4.4, F:3.9
9	A:4.3, F:4.0	21	A:4.4, F:4.0
10	A:1.3, F:1.3	22	A:4.4, F:4.0
11	A:1.3, F:1.3	27	A:0.0, F:0.0
12	A:0.9, F:0.9	24	A:0.0, F:0.9

Q714 A : No mark : common AM, FM

Pin Name	Voltage (V)
E	8.0
C	7.9
B	7.2

Q716 No mark : AM, FM

Pin Name	Voltage (V)
E	A:0.0, F:1.8
C	A:3.7, F:3.5
B	A:2.7, F:2.5

Q611

Pin Name	Voltage (V)
E	A:0.0, F:1.8
C	A:3.7, F:3.5
B	A:2.7, F:2.5

< CASS & POWER SECTION >

Test condition : TAPE PLAY

IC101

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	3.5	5	3.5
2	3.5	6	3.5
3	3.5	7	3.5
4	0.0	8	7.7

IC702

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	3.1	13	3.7
2	3.1	14	0.0
3	3.1	15	3.1
4	0.0	16	3.1
5	3.1	17	3.1
6	3.1	18	3.1
7	3.1	19	3.1
8	3.1	20	3.1
9	3.1	21	0.0
10	3.1	22	3.1
11	3.1	23	3.1
12	6.3	24	3.1

IC701 Q : QSOUND ON, QF : QSOUND OFF

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	3.6	9	3.6
2	3.6	10	0.1
3	Q:3.1, QF:0.0	11	4.4
4	1.8	12	4.3
5	3.6	13	4.3
6	3.6	14	4.3
7	3.6	15	3.6
8	0.0	16	8.0

IC700

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	11.3	7	0.0
2	5.9	8	0.6
3	11.0	9	6.1
4	0.0	10	11.0
5	0.6	11	5.9
6	0.0	12	12.0

Q109

Pin Name	Voltage (V)
E	0.0
C	0.0
B	0.7

Q110

Pin Name	Voltage (V)
E	0.0
C	0.0
B	0.7

Q706

Pin Name	Voltage (V)
E	11.2
C	12.0
B	11.9

Q712

Pin Name	Voltage (V)
E	8.0
C	6.2
B	7.3

Q614

Pin Name	Voltage (V)
E	5.3
C	5.3
B	4.5

Q711

Pin Name	Voltage (V)
E	5.5
C	7.3
B	6.1

Q602

Pin Name	Voltage (V)
E	0.0
C	0.0
B	1.3

Q709

Pin Name	Voltage (V)
E	11.3
C	8.0
B	10.6

Q603

Pin Name	Voltage (V)
E	0.0
C	0.0
B	1.3

Q704

Pin Name	Voltage (V)
E	7.3
C	10.6
B	7.9

IC703

Pin Name	Voltage (V)
E	5.3
C	0.0
B	10.8

Q604

Pin Name	Voltage (V)
E	0.0
C	4.6
B	0.0

IC620

Pin Name	Voltage (V)
E	5.0
C	0.0
B	5.1

Q650

Pin Name	Voltage (V)
E	0.0
C	0.0
B	7.4

Q107

Pin Name	Voltage (V)
E	1.1
C	1.0
B	0.4

Q701

Pin Name	Voltage (V)
E	0.0
C	0.0
B	4.4

Q720

Pin Name	Voltage (V)
E	0.0
C	0.0
B	4.9

Q101

Pin Name	Voltage (V)
E	8.0
C	7.9
B	7.2

Q703

Pin Name	Voltage (V)
E	12.0
C	11.3
B	11.3

Q710

Pin Name	Voltage (V)
E	0.0
C	0.0
B	5.6

Q700

Pin Name	Voltage (V)
E	11.3
C	11.3
B	10.6

Q713

Pin Name	Voltage (V)
E	1.0
C	4.1
B	1.7

Q708

Pin Name	Voltage (V)
E	0.0
C	0.0
B	0.7

Q102

Pin Name	Voltage (V)
E	0.0
C	0.0
B	0.6

Test condition : Tape REC

Q001

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	3.6	5	3.5
2	3.6	6	3.6
3	3.5	7	3.6
4	0.0	8	7.2

Q705

Pin Name	Voltage (V)
E	0.0
C	0.0
B	0.7

Q100

Pin Name	Voltage (V)
E	7.9
C	7.8
B	7.2

Test condition : Tape PLAY, REC

Q106 P : PLAY, R : REC, No mark : common

Pin Name	Voltage (V)
S	0.0
G	0.0
D	P:0.1, R:7.1

Q108 P : PLAY, R : REC, No mark : common

Pin Name	Voltage (V)
S	0.0
G	0.0
D	P:0.1, R:7.1

Q104 P : PLAY, R : REC, No mark : common

Pin Name	Voltage (V)
E	0.0
C	P:0.5, R:0.0
B	P:0.1, R:0.6

Q103 P : PLAY, R : REC

Pin Name	Voltage (V)
E	P:0.2, R:3.6
C	P:0.3, R:3.6
B	P:0.5, R:2.9

Q105 P : PLAY, R : REC

Pin Name	Voltage (V)
E	P:0.2, R:3.6
C	P:0.3, R:3.6
B	P:0.5, R:2.9

Test condition : Set Function

IC200 CD (S : STOP, P : PLAY),

TUNER : T, No mark : common

Pin No.	Voltage (V)	Pin No.	Voltage (V)
1	0.1	25	5.0
2	0.1	26	4.6
3	0.1	27	0.1
4	0.0	28	4.6
5	4.6	29	0.0
6	1.3	30	0.1
7	0.0	31	S:4.5, P:0.1
8	2.5	32	0.5
9	0.0	33	0.1
10	2.3	34	4.6
11	2.2	35	0.0
12	4.6	36	4.6
13	4.8	37	0.0
14	4.5	38	0.0
15	0.0	39	4.6
16	0.0	40	0.0, T:4.6
17	0.0	41	0.0
18	0.0	42	0.0
19	4.6	43	S:0.1, P:3.8
20	0.0	44	S:0.1, P:3.8
21	0.0	45	3.8
22	S:0.0, P:4.9	46	3.8
23	S:0.0, P:0.8	47	S:0.1, P:3.8
24	0.0	48	0.0

Q613 RF : REPEAT OFF, R : REPEAT ON

Pin Name	Voltage (V)
E	0.0
C	RF:3.8, R:0.0
B	RF:0.0, R:4.5

IC DESCRIPTION

IC, LC78622ED

Pin No.	Pin Name	I/O	Description
1	DEFI	I	Defect detection signal (DEF) input. ("L" is applied when not used.)
2	TAI	I	For PLL/Test input. A pull-down resistor is incorporated.
3	PDO	O	Phase comparison output to control the external VCO.
4	VVSS	–	Ground of the built-in VCO. Normally, 0V.
5	ISSET	I	For the connection of a resistor which adjusts the PDO output current.
6	VVDD	–	Power supply of the built-in VCO.
7	FR	I	Adjusts the VCO frequency range.
8	VSS	–	Ground of digital circuits. Normally, 0V.
9	EFMO	O	For slice level control/EFM signal output.
10	EFMIN	I	EFM signal input.
11	TEST2	I	Test input. A pull-down resistor is incorporated. Be sure to connect this to 0V.
12	CLV+	O	Disc motor control tri-state outputs.
13	CLV-		
14	V/P	O	Output to monitor the automatic switching between the rough servo control and phase servo control. "H" :Rough servo, "L": Phase servo.
15	HF	I	Track detection signal input. Schmitt trigger input.
16	TES	I	Track error signal input. Schmitt trigger input.
17	TOFF	O	Tracking off output.
18	TGL	O	Tracking gain switching output. "L" raises the gain.
19	JP+	O	Track jump control tri-state outputs.
20	JP-		
21	PCK	O	Monitors the clock signal for EFM data playback. (Not connected)
22	FSEQ(NC)	O	Sync signal detection output. Goes "H" when the sync signal detected from the EFM signal matches the sync signal generated internally. (Not connected.)
23	VDD	–	Power supply of digital circuits.
24	CONT1	O	Serial data command sled signal.
25	CONT2	O	Output terminal from microprocessor.
26	CONT3	–	Not connected.
27	CONT4	I/O	CD pickup inside limit switch. (Not connected)
28	CONT5	–	Not connected.
29	EMPH(NC)	O	Deemphasis monitor. "H": when playing a deemphasis disc. (Not connected)
30	C2F(NC)	O	C2 flag output. (Not connected)
31	DOUT	O	Outputs a digital OUT signal. (EIAJ format) (Not connected)
32	TEST3	I	Test input. A pull-down resistor is incorporated. Be sure to connect this to 0V.
33	TEST4		
34	NC	–	Not connected. Set to open.
35	MUTEL(NC)	O	Lch 1-bit DAC/Lch muting output. (Not connected)
36	LVDD	–	Lch power supply.
37	LCHO	O	Lch output.
38	LVSS	–	Lch ground. Normally, 0V.
39	RVSS	–	Rch 1-bit DAC/Rch ground. Normally, 0V.

Pin No.	Pin Name	I/O	Description
40	RCHO	O	Rch output.
41	RVDD	–	Rch power supply.
42	MUTER(NC)	O	Rch muting output. (Not connected)
43	XVDD	–	Power supply of crystal oscillator.
44	XOUT	O	For the connection of a 16.93MHz crystal oscillator.
45	XIN	I	
46	XVSS	–	Ground of crystal oscillator. Normally, 0V.
47	SBSY(NC)	O	Subcode block sync signal output. (Not connected)
48	EFLG(NC)	O	C1,C2,single,duplex correction monitor. (Not connected)
49	PW(NC)	O	Output of subcodes P,Q,R,S,T,U and W. (Not connected)
50	SFSY(NC)	O	Subcode frame sync signal output. Falls when the subcode is set to the standby state.(No connected)
51	SBCK	I	Subcode read-out clock input. Schmitt trigger input.("L" is applied when not used.)
52	FSX(NC)	O	7.35 kHz sync signal output obtained by dividing the oscillator frequency. (Not connected)
53	WRQ	O	Subcode Q standby output.
54	RWC	I	Read/write control input. Schmitt trigger input.
55	SQOUT	O	Subcode Q output.
56	COIN	I	Command input from the microprocessor.
57	CQCK	I	Command input retrieval clock or subcode retrieval clock input from SQOUT. Schmitt trigger input.
58	RES	I	LC78622 reset input. Set to "L" when power is supplied.
59	TST11	O	Test output. Set to open (normally, "L" output.) (Not connected)
60	16M	O	16.93MHz output. (Not connected)
61	4.2M	O	4.236 MHz output.
62	TEST5	I	Test input. A pull-down resistor is incorporated. Be sure to connect to 0 V.
63	CS	I	Chip select input. A pull-down resistor is incorporated.
64	TEST1	I	Test input with no pull-down resistor. Be sure to connect this to 0 V.

IC, LA9241ML

Pin No.	Pin Name	I/O	Description
1	FIN2	O	For the connection of the pickup photodiode. Addition to the FIN1 pin creates an RF signal and subtraction from it create an EF signal.
2	FIN1	O	For the connection of the pickup photodiode.
3	E	O	For the connection of the pickup photodiode. Subtraction from the F pin creates a TE signal.
4	F	O	For the connection of the pickup photodiode.
5	TB	I	Inputs the DC components in the TE signal.
6	TE-	O	For the connection of a resistor which sets the gain of the TE signal between this pin and the TE pin.
7	TE	O	TE signal output.
8	TESI	I	TES (track error sense) comparator input. The TE signal is passed through a BPF.
9	SCI	I	Shock detection input.
10	TH	I	Sets the time constant for the tracking gain.
11	TA	O	TA amp output.
12	TD-	I	Composes the tracking phase compensation constant between the TD and VR pins.
13	TD	O	Sets the tracking phase compensation.
14	JP	I	Sets the amplitude of the tracking jump signal (kick pulses).
15	TO	O	Tracking control signal output.
16	FD	O	Focusing control signal output.
17	FD-	I	Composes the focusing phase compensation constant between the FD and FA pins.
18	FA	O	Composes the focusing phase compensation constant between the FD- and FA- pins.
19	FA-	I	Composes the focusing phase compensation constant between the FA and FE pins.
20	FE	O	FE signal output.
21	FE-	I	For the connection of a resistor which sets the gain of the FE signal between this pin and the TE pin.
22	A-GND	O	Ground of analog signals.
23	SP	O	Single-ended output of the signals input to the CV+ and CV- pins.
24	SPI	I	Spindle amp input.
25	SPG	I	For the connection of a resistor which sets the gain in the spindle 12cm mode.
26	SP-	I	For the connection of the spindle phase compensation constant with the SPD pin.
27	SPD	O	Spindle control signal output.
28	SLEQ	I	For the connection of sled phase compensation constant.
29	SLD	O	Sled control signal output.
30	SL-	I	Sled feed signal input from the microprocessor.
31	SL+		
32	JP-	I	Tracking signal input from the DSP.
33	JP+		
34	TGL	I	Tracking gain control signal input from the DSP. Low gain when TGL is "H".
35	TOFF	I	Tracking off control signal input from the DSP. Off when TOFF is "H".
36	TES	O	Outputs the TES signal to the DSP.

Pin No.	Pin Name	I/O	Description
37	HFL	O	The HFL (high frequency level) signal is used to judge whether the main beam is positioned on the pit or on the mirror.
38	SLOF	I	Sled servo off control input.
39	CV-	I	CLV error signal input from the DSP.
40	CV+		
41	RFSM	O	RF output.
42	RFS-	O	Sets the RF gain and the EFM signal's 3T compensation constant together with the RFSM pin.
43	SLC	O	The SLC (slice level control) signal is output to control the DSP's data slice level of the RF waveform.
44	SL1	I	Input to control the DSP's data slice level.
45	D-GND	-	Ground of digital signals.
46	FSC	O	Output for the focus search smoothing capacitor.
47	TBC	I	The TBC (tracking balance control) signal sets the EF balance variation range.
48	NC	-	Not connected.
49	DEF	O	Disc defect detection output.
50	CLK	I	Reference clock input. 4.23 MHz is input from the DSP.
51	CL	I	Microprocessor command clock input.
52	DAT	I	Microprocessor command data input.
53	CE	I	Microprocessor chip enable input.
54	DRF	O	DRF (detect RF) is an output to detect the RF level.
55	FSS	I	The FSS (focus search select) signal switches the focus search modes (+/-search / +search with respect to the reference voltage). (Not connected)
56	VCC2	-	VCC of servo and digital circuits.
57	REF1	-	For the connection of bypass capacitor for the reference voltage.
58	VR	O	Reference voltage output.
59	LF2	-	Sets the time constant for disc defect detection.
60	PH1	-	For the connection of a capacitor to hold the RF signal peak.
61	BH1	-	For the connection of a capacitor to hold the RF signal bottom.
62	LDD	O	APC circuit output.
63	LDS	I	APC circuit input.
64	VCC1	-	VCC of RF signal circuits.

IC, LC865516A-5L84

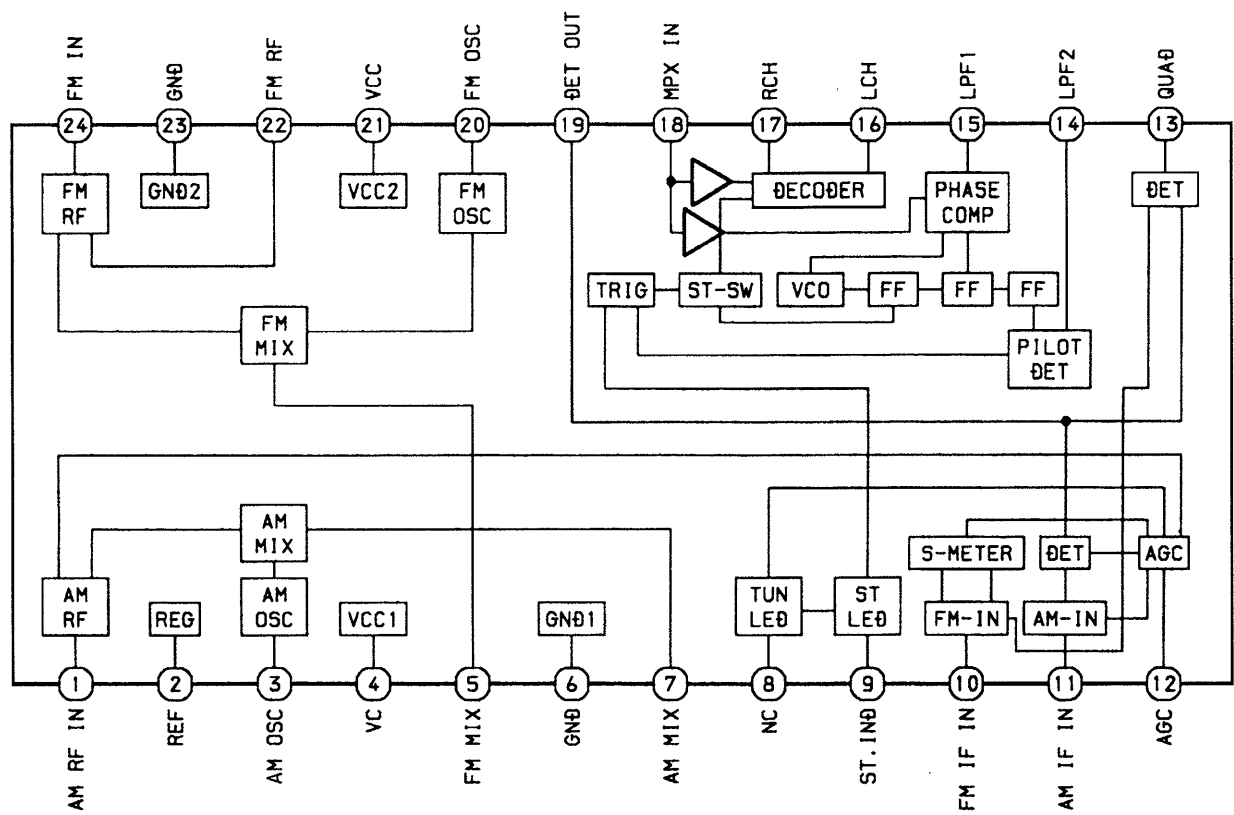
Pin No.	Pin Name	I/O	Description
1~3	$\overline{\text{SEG E}\sim\text{G}}$	O	LED segment E~G control output.
4	NC	–	Not connected.
5	$\overline{\text{RESET}}$	I	Micromputer reset.
6	XT1(IN)	I	Connected to 32.768kHz crystal oscillation.
7	32.768	–	Not connected.
8	XT2(OUT)	O	Connected to 32.768kHz crystal oscillation.
9	GND	–	GND.
10	CF1(IN)	I	Connected to 5.76MHz ceramic filter.
11	CF2(OUT)	O	Connected to 5.76MHz ceramic filter.
12	VDD	–	Power supply for microcomputer (+5V).
13,14	I-KEY0,1	I	Key AD input.
15	MOTOR-D	I	Deck mecha motor status input.
16	$\overline{\text{CD SW}}$	I	CD door switch status detection input.
17	CLK SFT	–	Clock shift output of the microcomputer. (Not used)
18	NC	–	Not connected.
19	BASS-LED	O	BASS LED ON/OFF control output. (Not used)
20	Q-LED	O	QS LED ON/OFF control output. (Not used)
21	NC	–	Not connected.
22	DRF	I	CD RF level detection input.
23	WRQ	I	CD sub-code Q standby input.
24	NC	–	Not connected.
25	RMT-IN	I	Remote control input.
26	CD ON	O	CD PWR control output.
27	TU ON	O	TUNER PWR control output.
28	P-ON	O	Power supply control output.
29	NC	–	Not connected.
30	Q ON	O	Q-SOUND LED ON/OFF control output. (Not used)
31	M-MUTE	O	Main mute output.
32	DIGIT ON	O	7 segment LED power output.
33	RP LED	O	REPEAT LED ON/OFF control output.
34	COIN	O	CD command output.
35	SQOUT	I	CD subcode Q input.
36	CQCK	O	Clock for CD commands/sub codes.
37	RWC	O	CD read/write control output and TU CE.
38	DATA	O	Data output to sound processor IC (M62495FP).
39	CD LED	O	CD LED ON/OFF control output.
40	TU LED	O	TUNER LED ON/OFF control output.
41	TA LED	O	RADIO LED ON/OFF control output. (Not used)
42,48	NC	–	Not connected.
43	$\overline{\text{SEG DP}}$	O	LED segment DP control output.
44~47	$\overline{\text{SEGA}\sim\text{D}}$	O	LED segment A~D control output.

IC, BA6898S

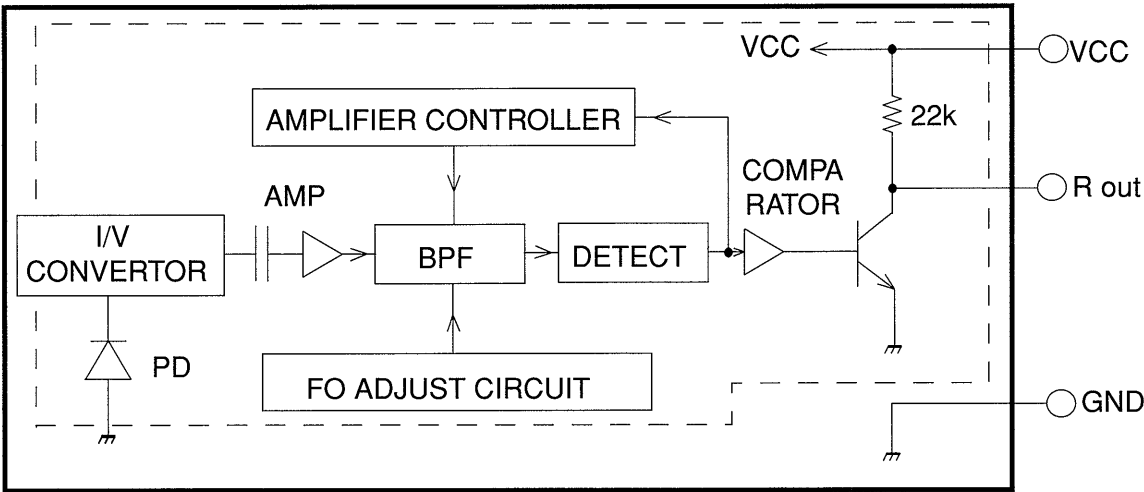
Pin No.	Pin Name	I/O	Description
1	NC	—	Not connected.
2	VCC	—	Power supply terminal.
3	BIAS	I	Input bias amplifier.
4	VIN1'	I	Input terminal for driver channel 1 gain adjustment.
5	VIN1	I	Input driver channel 1.
6	V01(+)	O	Positive output of driver channel 1.
7	V01(-)	O	Negative output of driver channel 1.
8	GND	—	Sub straight ground terminal.
9	V02(-)	O	Negative output of driver channel 2.
10	V02(+)	O	Positive output of driver channel 2.
11	VIN2'	I	Input terminal for driver channel 1 gain adjustment.
12	RESET	O	Output reset. (Not connected)
13	REG-B	—	Connected to base terminal of external regulator transistor .
14	REG OUT	O	Output constant voltage. (Connected to collector of external regulator transistor)
15	MUTE	I	Mute control terminal.
16	SUB	—	Sub straight ground terminal.
17	NC	—	Not connected.
18	GND	—	GND
19	VIN3'	I	Input terminal for driver channel 3 gain adjustment.
20	VIN3	I	Input driver channel 3.
21	V03(-)	O	Negative output of driver channel 3.
22	V03(+)	O	Positive output of driver channel 3.
23	GND	—	Sub straight ground terminal.
24	OP OUT	O	Ope-amp. output. (Not connected)
25	OP IN(-)	I	Ope-amp. negative input
26	NC	—	Not connected.
27	V04(-)	O	Negative output of driver channel 4.
28	V04(+)	O	Positive output of driver channel 4.
29	VIN4	I	Input driver channel 4.
30	VIN4'	I	Input terminal for driver channel 4 gain adjustment.
31	VCC	—	Power supply terminal.
32	SUB	—	Sub straight ground terminal.

IC BLOCK DIAGRAM

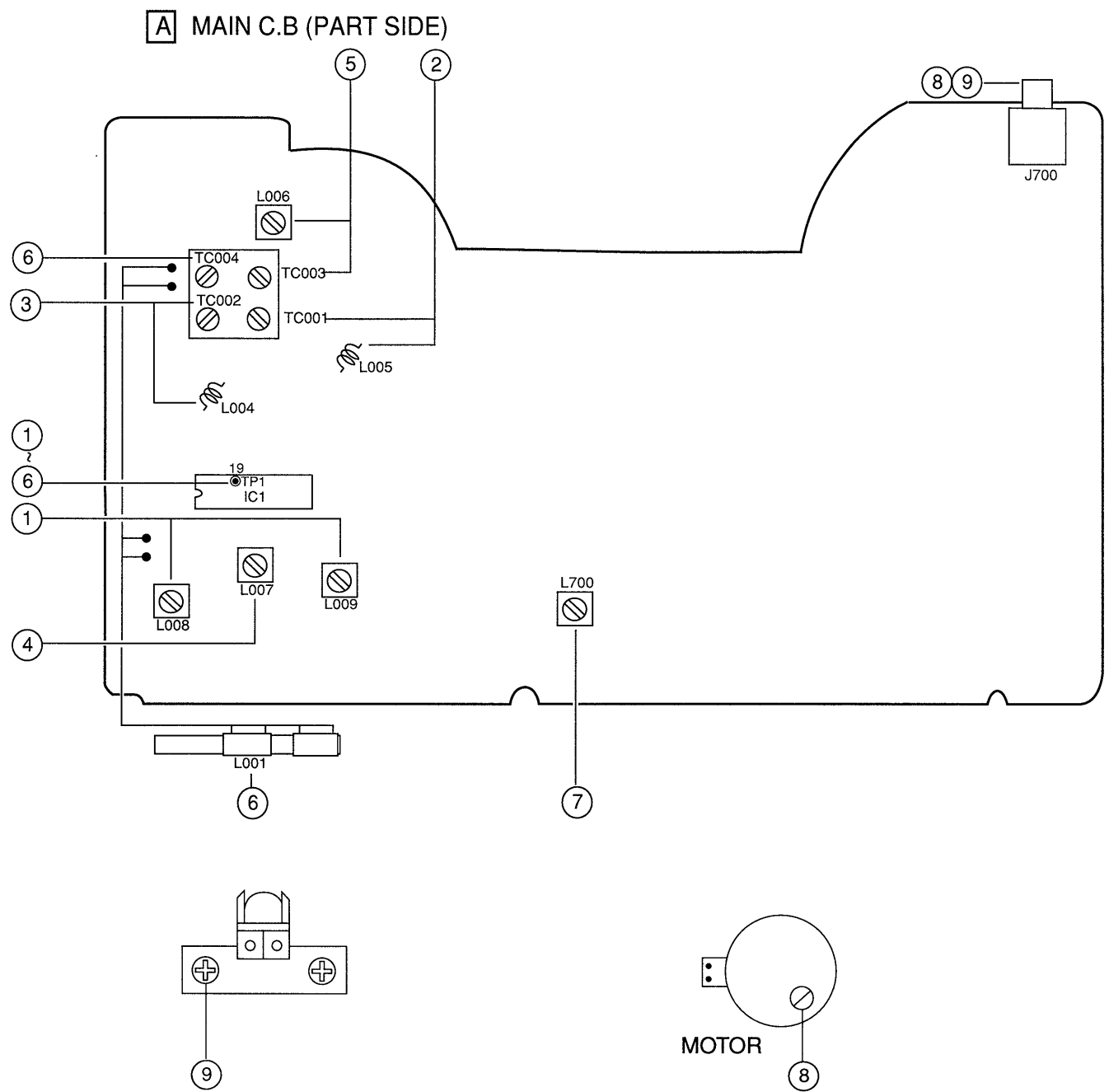
IC, LA1828



IC, RPM6938



ELECTRICAL ADJUSTMENT

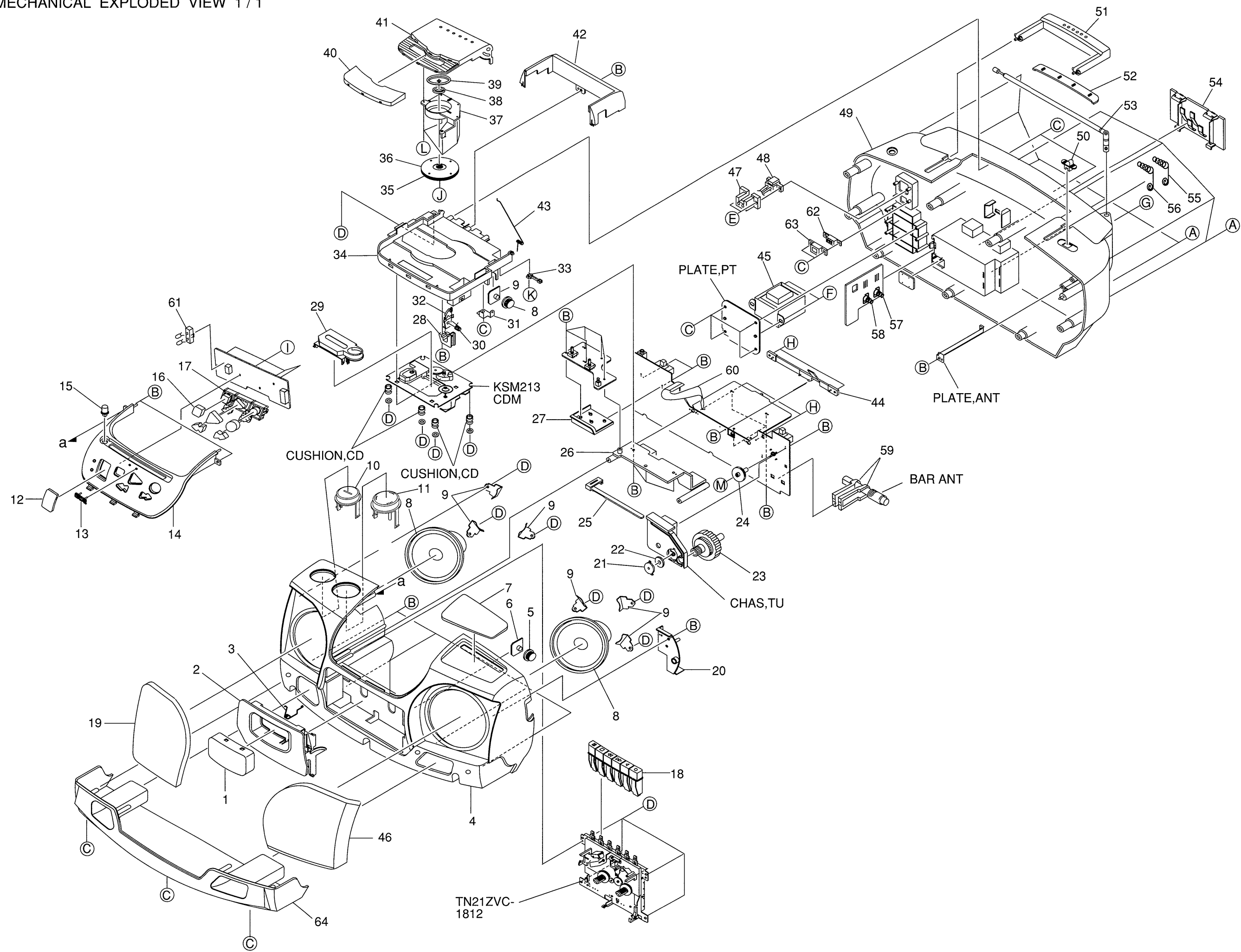


< RADIO SECTION >

1. FM IF Adjustment
 - Test Point: IC001 (LA1828) Pin 19
 - Adjustment location: L008, L009
 - L008, L009 10.7MHz $\pm$ 0.2MHz
2. FM Frequency Range Adjustment
 - Test Point: IC001 (LA1828) Pin 19
 - Adjustment location: L005, TC001
 - L005 87.0MHz $\pm$ 0.3MHz
 - TC001 109.0MHz $\pm$ 0.3MHz
3. FM Tracking Adjustment
 - Test Point: IC001 (LA1828) Pin 19
 - Adjustment location: L004, TC002
 - L004 88MHz
 - TC002 108MHz
4. AM IF Adjustment
 - Test Point: IC001 (LA1828) Pin 19
 - Adjustment location: L007
 - L007 455kHz $\pm$ 5kHz
5. AM Frequency Range Adjustment
 - Test Point: IC001 (LA1828) Pin 19
 - Adjustment location: L006, TC003
 - L006 517kHz $\pm$ 3kHz
 - TC003 1750kHz $\pm$ 10kHz
6. AM Tracking Adjustment
 - Test Point: IC001 (LA1828) Pin 19
 - Adjustment location: L001 (BAR ANT), TC004
 - L001 (BAR ANT) 600kHz
 - TC004 1400kHz

< TAPE RECORDER SECTION >

7. Bias Frequency Adjustment
 - L700 75Hz $\pm$ 500Hz
8. Tape speed Adjustment
 - Test tape: TTA-100 (TTA-111S)
 - Test point: PHONES JACK (J700)
 - Adjustment location: SFR of deck motor
 - Method: Play back the test tape and adjust so that the output frequency is 3000Hz $\pm$ 30Hz.
9. Azimuth Adjustment
 - Test tape: TTA-320 (TTA-113B)
 - Test point: PHONES JACK (J700)
 - Adjustment location: Azimuth adjustment screw
 - Method: Play back the test tape and adjust so that the output is maximum.



MECHANICAL PARTS LIST 1 / 1

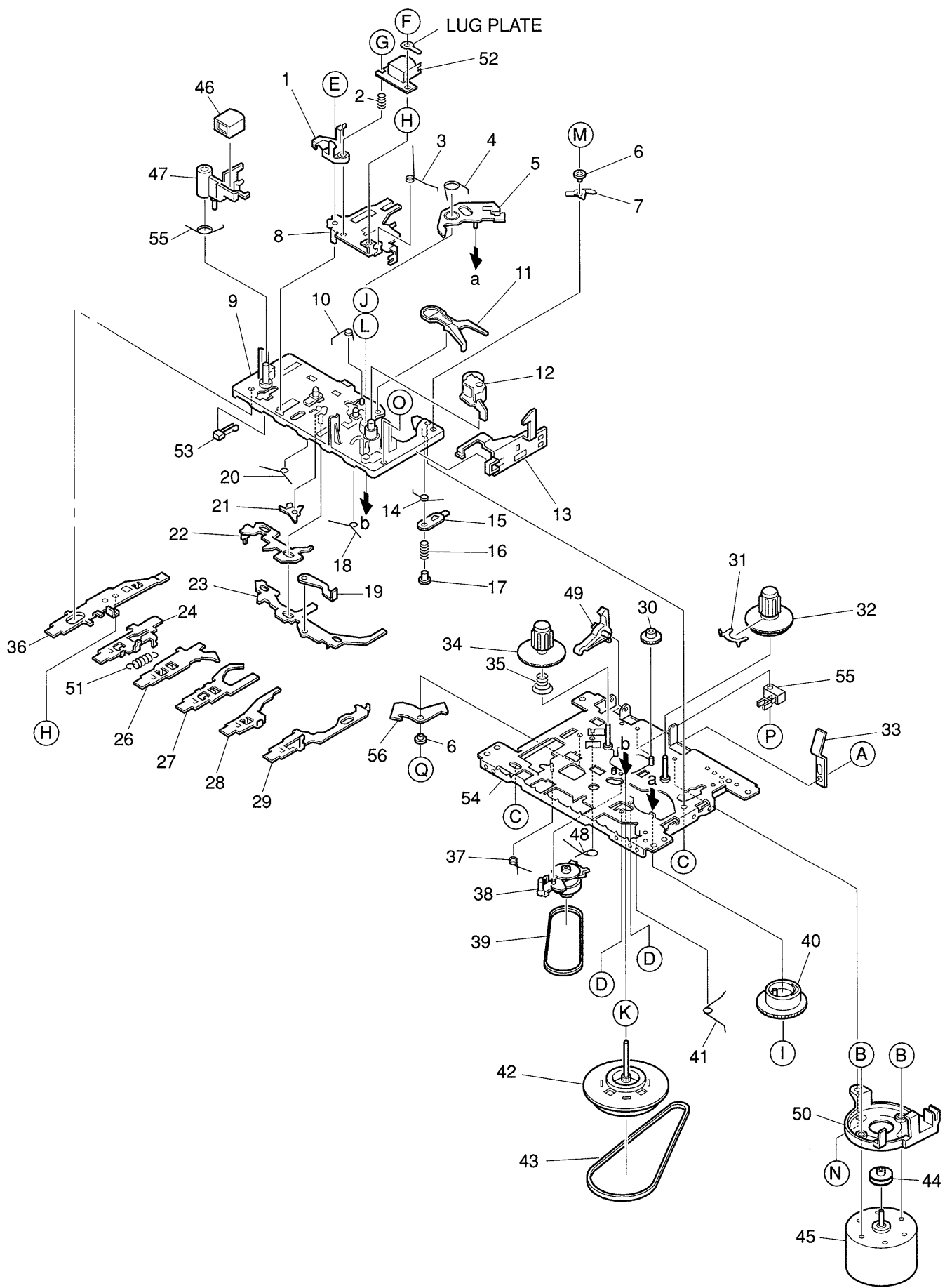
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-CD9-008-010		WINDOW, CASS				
2	8Z-CDK-008-010		LID, CASS	40	8Z-CD9-033-010		WINDOW, CD EX
3	8Z-CD9-218-010		SPR-T, CASS	41	8Z-CDK-009-010		DOOR, CD
4	8Z-CDK-006-010		CABI, FRONT	42	8Z-CD9-004-010		PANEL, REAR
5	84-CD5-215-010		GEAR	43	8Z-CD9-215-010		SPR-T, CD
				44	8Z-CD9-220-010		HLDR, CD PWB
6	84-CD5-216-010		BRACKET				
7	8Z-CD9-041-010		WINDOW, TU HR<HR>	△ 45	8Z-CD9-639-010		PT, HR
7	8Z-CD9-032-010		WINDOW, TU U<LH>	46	8Z-CD9-049-010		GRILLE, SPKER R
8	88-CD9-615-010		SPKR, 7OHM	△ 47	8Z-CD9-635-010		JACK, AC E BLK W/SW
9	8Z-CD9-209-010		HLDR, SPKR	48	88-CD9-207-010		COVER, AC SOCKET
				49	8Z-CDK-007-010		CABI, REAR
10	8Z-CDK-003-010		KEY, VOL				
11	8Z-CDK-002-010		KEY, FUN	50	8Z-CD9-016-010		KNOB, SL FUN
12	8Z-CDK-005-010		WINDOW, LED	51	8Z-CD9-024-010		HANDL, FRONT
13	84-CD8-083-010		BADGE, AIWA 30.5-5.2 2.5LEAD	52	8Z-CD9-025-010		HANDL, REAR
14	8Z-CDK-001-010		PANEL, CD	53	87-043-116-010		ANT, WHIP
				54	8Z-CD9-006-010		LID, BATTERY
15	8Z-CD9-020-010		KEY, Q SOUND				
16	8Z-CD9-012-010		KEY, CD SET	55	87-CD6-223-010		SPR-C, BATT LINK L
17	8Z-CD9-013-010		HINGE, CD	56	87-CD6-214-010		SPR-C, BATT LINK
18	8Z-CD9-019-010		KEY, CASS SET	57	87-CD6-222-010		SPR-C, BATT (-) L
19	8Z-CD9-048-010		GRILLE, SPKER L	58	87-CD6-213-010		SPR-C, BATT (-)
				59	88-CD9-208-010		HLDR, BAR-ANT
20	8Z-CD9-205-010		HLDR, TU				
21	8Z-CD9-208-010		PLATE, TU	60	8Z-CD9-628-010		FF-CABLE, 16P 1.0 110MM PICK-U
22	8Z-CD9-207-010		GEAR, RELAY	61	8Z-CDK-202-010		HLDR, LED
23	8Z-CD9-018-010		KNOB, RTRY TUN	△ 62	87-A90-146-010		SW, SL 1-1-2
24	8Z-CD9-206-010		GEAR, PVC	63	88-CD9-209-010		COVER, VOLTAGE
				64	8Z-CDK-010-010		BABI, BOTTOM
25	8Z-CD9-026-010		POINTER,				
26	8Z-CD9-201-010		HLDR, PWB	A	87-741-104-410		UT2+3-30
27	8Z-CDK-201-010		HLDR, VOL PWB	B	87-651-096-410		VT1+3-10
28	87-CD7-207-010		HLDR, LOCKER	C	87-744-096-410		UT2+3-10
29	8Z-CDB-169-010		PANEL, CD SANYO	D	87-741-095-410		UT2+3-8
				E	87-751-076-410		VT2+2.6-12
30	82-CD8-212-010		SPR-T, CAM CD				
31	88-CD8-222-010		SPR-P, DAMP CD	F	87-761-094-410		VFT2+3-6
32	87-CD7-206-010		DOOR, CD LOCKER	G	87-251-095-410		U+3-8
33	81-590-677-010		SWITCH LEAF	H	87-741-097-410		UT2+3-12
34	8Z-CD9-023-010		CHAS, CD	I	87-724-095-410		QT2+3-8
				J	87-741-033-410		UT2+2-4
35	88-CD9-211-010		RING, CHUCK				
36	88-CDB-170-010		BASE, CHUCK	K	87-741-035-410		UT2+2-6
37	8Z-CD9-022-010		HLDR, CHUCK	L	87-723-073-410		QT2+2.6-6
38	87-036-368-010		MAGNET	M	87-481-033-410		VWS+2-4
39	84-CT5-209-010		PLATE, MAGNET				

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	Sliver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

TAPE MECHANISM EXPLODED VIEW 1 / 1

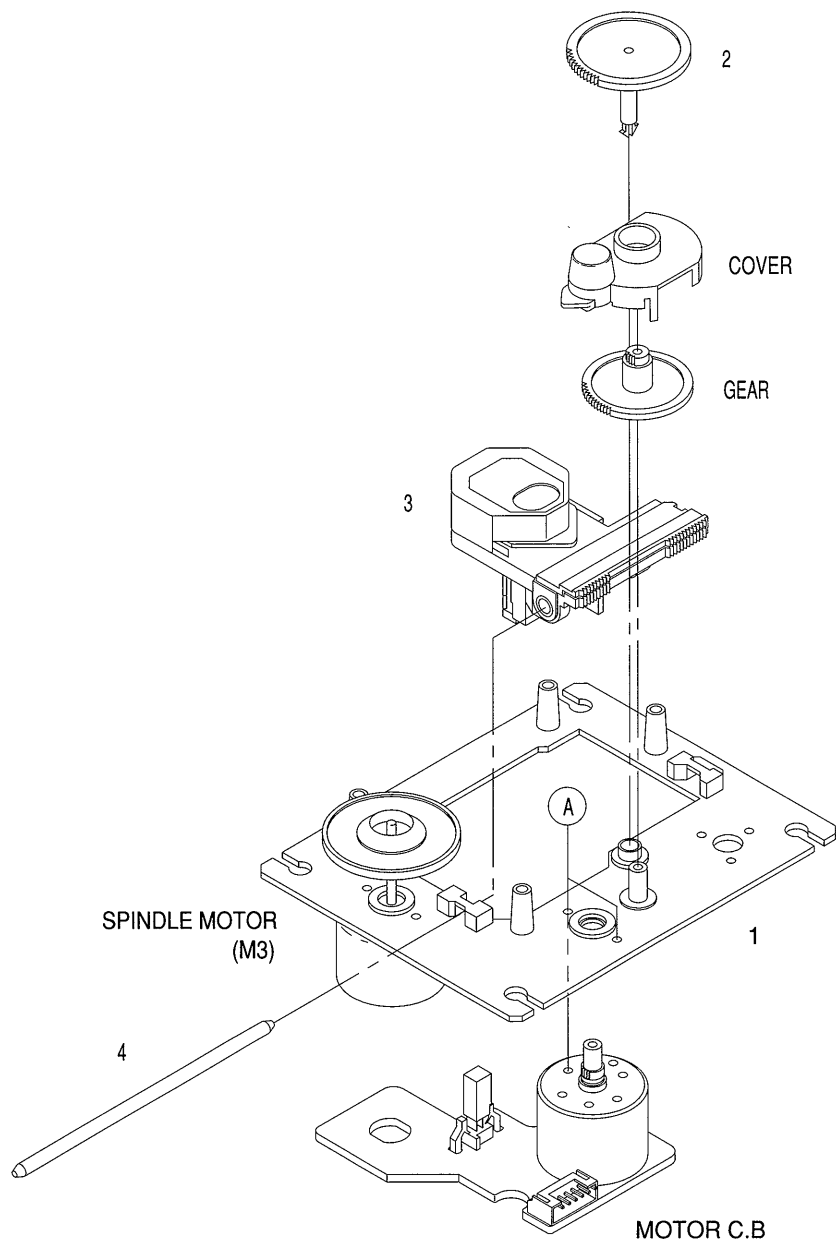


TAPE MECHANISM PARTS LIST 1 / 1

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	S1-921-030-4A0		HEAD BASE	41	S1-921-140-160		E ACTUATOR SPRING
2	S1-821-030-070		AZIMUTH SPRING	42	S1-921-093-030		FLYWHEEL ASSY
3	S1-921-030-090		PANEL P SPRING	43	S1-921-090-040		MAIN BELT
4	S1-921-260-050		GEAR PLATE SPRING	44	S1-921-120-010		MOTOR PULLEY
5	S1-921-265-020		GEAR PLATE ASSY	45	S6-002-030-220		MOTOR EG530AD-2B
6	S1-921-140-370		P ARM COLLER	46	S6-209-100-100		E HEAD PH-K380-MS1
7	S1-921-140-340		P ARM	47	S1-921-030-050		MG ARM
8	S1-921-030-110		HEAD PANEL	48	S1-921-140-210		REC BUTTON LEVER SPRING
9	S1-921-143-160		BASE ASSY	49	S1-821-100-690		RECORD SAFETY LEVER
10	S1-921-141-8A0		M CONTROL SPRING	50	S1-821-128-9A0		MOTOR BRACKET
11	S1-921-260-4A0		SENSING LEVER	51	S1-821-010-500		PLAY BUTTON LEVER SPRING
12	S1-921-043-100		PINCH ROLLER ARM ASSY	52	S6-201-011-110		HEAD,RP7442ES-0951
13	S1-921-130-010		EJECT SLIDE LEVER	53	S6-401-011-520		LEAF SW MSW-1541F
14	S1-921-141-3A0		P CONTROL SPRING	54	S1-921-015-010		CHASSIS ASSY
15	S1-921-140-550		PAUSE LEVER(E)	55	S6-401-010-380		LEAF SWITCH MSW-1275
16	S1-921-140-120		PAUSE LEVER SPRING	56	S1-921-020-010		REC ARM
17	S1-921-140-110		PAUSE STOPPER	A	S9-P04-200-310		C TAPPING SCREW 2-3
18	S1-921-140-150		BUTTON LEVER SPRING(B)	B	S1-921-120-020		MOTOR COLLER SCREW
19	S1-821-011-590		E KICK LEVER	C	S9-B10-200-510		P TAPPING BIND SCREW M2-5
20	S1-921-140-140		BUTTON LEVER SPRING(A)	D	S9-C07-204-510		SCREW,TAPPING(CAMERA)M2-4.5
21	S1-921-140-200		PR STOPPER	E	S9-P01-200-610		SCREW,M2-6
22	S1-921-140-090		SWITCH ACTUATOR	F	S9-P01-200-310		SCREW,M2-3
23	S1-921-140-080		PUSH BUTTON ACTUATOR	G	S9-F08-200-710		AZIMUTH SCREW M2-7
24	S1-921-140-190		PLAY BUTTON LEVER	H	S9-W13-000-100		Y WASHER PB 0.1T
25	S1-921-030-100		MG ARM SPRING	I	S9-W02-300-100		P WASHER CUT 1.2-3.8-0.3
26	S1-921-140-040		REW BUTTON LEVER	J	S9-W02-500-100		P WASHER CUT 1.45-3.8-0.5
27	S1-921-140-050		FF,BUTTON REVER	K	S9-W01-400-100		P WASHER 2-3.5-0.4
28	S1-921-140-060		STOP BUTTON LEVER	L	S9-W01-130-200		P WASHER 2.1-4-0.13
29	S1-921-140-600		PAUSE BUTTON LEVER	M	S9-P08-203-010		PS TAPPING SCREW M2-3
30	S1-821-100-700		FF GEAR	N	S1-921-120-030		MB SCREW
31	S1-921-050-060		SENSOR	O	S9-P05-200-810		SCREW,S TAP 2-8
32	S1-921-053-030		TAKE UP REEL ASSY	P	S9-P04-200-510		C TAPPING SCREW M2-5
33	S1-829-100-010		PACK SPRING	Q	S9-P04-200-410		C TAPPING SCREW M2-4
34	S1-921-053-040		SUPPLY REEL ASSY				
35	S1-821-100-990		BACK TENSION SPRING				
36	S1-921-140-030		REC BUTTON LEVER				
37	S1-921-140-170		P.S.LEVER SPRING				
38	S1-921-073-040		RF CLUTCH ASSY				
39	S1-921-070-030		RF BELT				
40	S1-921-260-020		CAM GEAR				

CD MECHANISM EXPLODED VIEW 1 / 1



CD MECHANISM PARTS LIST 1 / 1

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	9X-262-620-210		MOTOR CHASSIS ASSY
2	92-626-907-010		GEAR(A)
3	87-A90-468-010		PICK UP KSS-213C
4	92-626-908-010		SHAFT SLED
A	97-621-255-150		SCREW+P2-3

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, MELF
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
TRIMER	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

サービス技術ニュース	
番号	連絡内容
G- -	
G- -	
G- -	

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