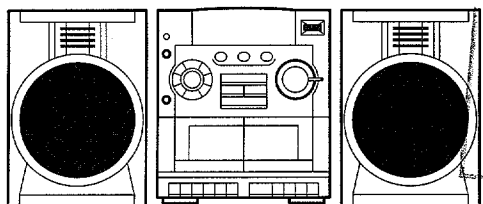


aiwa



CA-DW235 CA-DW245



CD CARRY COMPONENT SYSTEM

- BASIC TAPE MECHANISM : TN-21ZSW-1694
- BASIC CD MECHANISM : KSM-213CDM

• TYPE: U,LH,HA,K

REVISION PUBLISHING

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" CA-DW235(U),CA-DW245(LH) (S/M Code No. 09-993-410-3T1) and CA-DW245(HA,K) (S/M Code No. 09-994-410-3T2).
- This Service Manual does not contain "Mechanical exploded view" and "Mechanical Parts List."

SPECIFICATIONS

<FM Tuner section>

Tuning range

87.5 MHz to 108.0 MHz

Antenna

Rod antenna

<MW Tuner section>

Tuning range

530 kHz to 1710 kHz <U,LH,HA>

530 kHz to 1605 kHz <K>

Ferrite bar antenna

<LW Tuner section>

Tuning range

150 kHz to 285 kHz <K>

Ferrite bar antenna

<Cassette deck section>

Track format

4 tracks, 2 channels stereo

Frequency response

Normal tape: 50 Hz – 12000 Hz

Recording system

AC bias

Erasing system

Magnet erase

Heads

Deck 1

Recording/playback/erase head x 1

Deck 2

Playback head x 1

<CD player section>

Disc

Compact disc

Scanning method

Non-contact optical laser

Laser

Semiconductor laser ($\lambda = 780 \text{ nm}$)

Rotation speed

Approx. 500 - 200 rpm/CLV

Error correction

Cross Interleave, Reed Solomon code

D-A converter

1 bit DAC

<General>

Speakers

120 mm cone type

Power output

2.5W + 2.5W (7 ohms, EIAJ) <U>

4.5W + 4.5W (3.2 ohms, EIAJ) <LH,HA,K>

Power requirements

DC 12V using eight R20 (D size) batteries

AC 120V, 60 Hz <U>

AC 110 - 120V / 220 - 240V Switchable, 50/60 Hz <LH,HA>

AC 230V, 50 Hz <K>

Power consumption

18W <U>

27W <LH,HA>

24W <K>

Dimensions of main unit

260 x 302 x 246 mm (W x H x D)

Weight of main unit

4.2 kg

• 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 ylittävälle 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

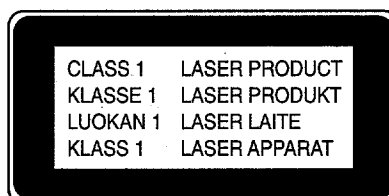
L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

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.



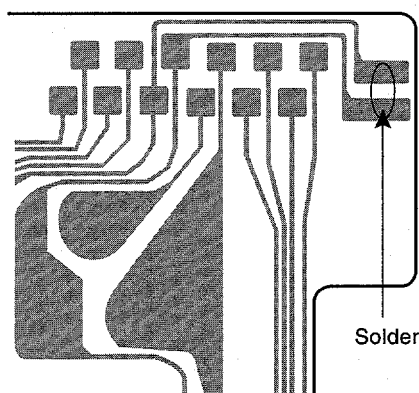
Precaution to replace Optical block

(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.

PICK-UP Assy P.C.B



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				C26	87-010-545-080		CAP, ELECT 0.22-50V
	87-A20-955-010	IC,LA1828		C27	87-010-545-080		CAP, ELECT 0.22-50V
	87-A20-946-040	C-IC,MM1434XF		C28	87-018-208-080		CAP 0.047-50F
	87-A20-591-010	IC,BA5417		C29	87-018-208-080		CAP 0.047-50F
	87-A21-111-040	C-IC,M62495FP		C30	87-010-248-080		CAP, ELECT 220-10V
	87-020-828-010	IC,BA3416BL		C31	87-010-379-080		CAP, ELECT 22-16V
	87-001-440-010	IC,BA15218N		C32	87-018-134-080		CAPACITOR,TC-U 0.01-16
	87-A20-446-010	C-IC,LA9241ML		C33	87-018-134-080		CAPACITOR,TC-U 0.01-16
	87-A20-459-010	C-IC,LC78622ED		C34	87-018-134-080		CAPACITOR,TC-U 0.01-16
	87-A21-093-010	IC,LA6541D		C37	87-A11-226-080		CAP,TC 180P-50 K CH UP125
	87-070-416-010	IC,NJU7201 L55		C38	87-A11-224-080		CAP,TC 47P-50 J CH <EXCEPT 245K>
	8Z-CH4-636-010	IC,LC867132V-5K36		C38	87-A11-225-080		CAP,TC 82P-50 J CH <245K>
TRANSISTOR				C41	87-018-090-080		CAP,TC 47P-50 J<245K>
	89-319-233-080	TR,2SC1923 (0.1W)		C44	87-018-090-080		CAP,TC S 47P-50 J<245K>
	87-026-572-080	TR,DTA114TS		C207	87-010-408-080		CAP, ELECT 47-50V
	87-026-215-080	TR,DTC114YS		C208	87-010-402-080		CAP, ELECT 2.2-50V
	87-026-291-080	TR,DTC124XS		C209	87-018-134-080		CAPACITOR,TC-U 0.01-16
	89-320-011-010	TR,2SC2001 (0.6W)		C210	87-018-134-080		CAPACITOR,TC-U 0.01-16
	89-320-011-080	TR,2SC2001 (15W)		C211	87-010-401-080		CAP, ELECT 1-50V
	87-026-462-080	TR,2SC1740 S(RS 0.3W)		C212	87-010-401-080		CAP, ELECT 1-50V
	87-026-463-080	TR,2SA933S (0.3W)		C217	87-010-400-080		CAP, ELECT 0.47-50V
	89-113-184-080	TR,2SA1318T		C218	87-010-400-080		CAP, ELECT 0.47-50V
	89-112-965-010	TR,2SA1296GR		C220	87-010-405-080		CAP, ELECT 10-50V
	87-026-463-010	TR,2SA933S,RS		C222	87-018-134-080		CAPACITOR,TC-U 0.01-16
	87-026-291-010	TR,DTC124XS		C223	87-018-134-080		CAPACITOR,TC-U 0.01-16
	89-213-702-010	TR,2SB1370 (1.8W)		C226	87-018-134-080		CAPACITOR,TC-U 0.01-16
	87-026-462-010	TR,2SC1740S		C228	87-010-401-080		CAP, ELECT 1-50V
	88-NF9-637-010	TR,2SA1318T/U		C229	87-010-401-080		CAP, ELECT 1-50V
	87-026-464-010	TR,DTC114TS		C233	87-010-546-080		CAP, ELECT 0.33-50V
	89-318-155-080	TR,2SC1815 (0.4W)		C234	87-010-546-080		CAP, ELECT 0.33-50V
	89-112-965-080	TR,2SA1296 (0.75W)		C235	87-010-544-080		CAP, ELECT 0.1-50V
	87-026-610-080	TR,KTC3198GR		C236	87-010-544-080		CAP, ELECT 0.1-50V
	89-322-405-080	TR,2SC2240GR		C237	87-010-380-080		CAP, ELECT 47-16V
DIODE				C238	87-010-263-080		CAP, ELECT 100-10V
	84-RM1-695-010	DIODE,1N4148		C241	87-010-405-080		CAP, ELECT 10-50V
	87-A40-226-080	VARI-CAP,SVC251SPA		C242	87-010-405-080		CAP, ELECT 10-50V
	87-A40-466-080	ZENER,MTZJ2.7A		C243	87-010-405-080		CAP, ELECT 10-50V
	87-017-161-080	ZENER,HZS7C2L		C244	87-010-405-080		CAP, ELECT 10-50V
	87-017-148-080	ZENER,HZS6A1L		C245	87-010-405-080		CAP, ELECT 10-50V
	87-017-139-010	ZENER,HZS15-2		C246	87-010-405-080		CAP, ELECT 10-50V
	87-027-607-080	ZENER,HZ7B3L		C247	87-010-404-080		CAP, ELECT 4.7-50V
	87-A40-465-010	DIODE,FR202		C248	87-010-404-080		CAP, ELECT 4.7-50V
MAIN C.B				C251	87-010-401-080		CAP, ELECT 1-50V
C1	87-018-059-080	CAP TC-S 22P-50CH		C261	87-010-402-080		CAP, ELECT 2.2-50V
C2	87-018-062-080	CAP,TC-S 33P-50 CH		C262	87-010-402-080		CAP, ELECT 2.2-50V
C3	87-018-059-080	CAP TC-S 22P-50CH		C263	87-018-131-080		CAP, CER 1000P-50V
C6	87-010-378-080	CAP, ELECT 10-16V		C264	87-018-131-080		CAP, CER 1000P-50V
C7	87-018-208-080	CAP 0.047-50F		C265	87-010-383-080		CAP, ELECT 33-25V
C8	87-A11-227-080	CAP,TC U 2200P-50 K B UP050		C266	87-010-383-080		CAP, ELECT 33-25V
C9	87-018-147-080	CAP,TC-U 10P-50 CH<EXCEPT 245K>		C267	87-010-380-080		CAP, ELECT 47-16V
C9	87-018-148-080	CAP,TC-U 12P-50 CH<245K>		C268	87-010-380-080		CAP, ELECT 47-16V
C10	87-018-134-080	CAPACITOR,TC-U 0.01-16		C271	87-010-221-080		CAP, ELECT 470-10V
C12	87-018-059-080	CAP TC-S 22P-50CH		C272	87-010-221-080		CAP, ELECT 470-10V
C13	87-018-142-080	CAP,TC-U 3.9P-50 CH		C277	87-010-260-080		CAP, ELECT 47-25V
C14	87-010-400-080	CAP, ELECT 0.47-50V		C278	87-010-384-080		CAP, ELECT 100-25V
C15	87-018-134-080	CAPACITOR,TC-U 0.01-16		C279	87-010-112-080		CAP, ELECT 100-16V
C16	87-018-131-080	CAP, CER 1000P-50V		C280	87-010-401-080		CAP, ELECT 1-50V
C17	87-018-205-080	CAP, CERA-SOL 0.022		C281	87-010-401-080		CAP, ELECT 1-50V
C18	87-010-544-080	CAP, ELECT 0.1-50V		C291	87-010-404-080		CAP, ELECT 4.7-50V
C19	87-010-544-080	CAP, ELECT 0.1-50V		C293	87-010-404-080		CAP, ELECT 4.7-50V
C20	87-010-400-080	CAP, ELECT 0.47-50V		C301	87-018-131-080		CAP, CER 1000P-50V
C21	87-010-403-080	CAP, ELECT 3.3-50V		C302	87-018-131-080		CAP, CER 1000P-50V
C22	87-018-134-080	CAPACITOR,TC-U 0.01-16		C303	87-018-131-080		CAP, CER 1000P-50V
				C304	87-018-131-080		CAP, CER 1000P-50V
				C305	87-010-374-080		CAP, ELECT 47-10V
				C306	87-010-374-080		CAP, ELECT 47-10V
				C307	87-010-382-080		CAP, ELECT 22-25V
				C308	87-010-405-080		CAP, ELECT 10-50V
				C309	87-010-545-080		CAP, ELECT 0.22-50V
				C310	87-010-545-080		CAP, ELECT 0.22-50V

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C311	87-010-248-080		CAP, ELECT 220-10V
C312	87-010-374-080		CAP, ELECT 47-10V
C315	87-010-401-080		CAP, ELECT 1-50V
C316	87-010-401-080		CAP, ELECT 1-50V
C317	87-010-382-080		CAP, ELECT 22-25V
C318	87-010-382-080		CAP, ELECT 22-25V
C319	87-010-405-080		CAP, ELECT 10-50V
C320	87-010-405-080		CAP, ELECT 10-50V
C321	87-018-125-080		CAP, CER 330P-50V
C322	87-018-125-080		CAP, CER 330P-50V
C325	87-018-196-080		CAP, CER 1500P-16V
C326	87-018-196-080		CAP, CER 1500P-16V
C327	87-010-404-080		CAP, ELECT 4.7-50V
C328	87-018-131-080		CAP, CER 1000P-50V
C329	87-018-132-080		CAP, CER 2200P-16V
C331	87-010-374-080		CAP, ELECT 47-10V
C334	87-018-122-080		CAP 180P-50 B
C341	87-018-125-080		CAP, CER 330P-50V
C342	87-018-125-080		CAP, CER 330P-50V
C343	87-018-125-080		CAP, CER 330P-50V
C344	87-018-125-080		CAP, CER 330P-50V
C501	87-010-453-010		CAP, ELECT 4700-25V
C506	87-010-404-080		CAP, ELECT 4.7-50V
C507	87-010-401-080		CAP, ELECT 1-50V
C508	87-010-221-080		CAP, ELECT 470-10V
C509	87-010-263-080		CAP, ELECT 100-10V
C510	87-010-248-080		CAP, ELECT 220-10V
C511	87-010-384-080		CAP, ELECT 100-25V
C512	87-010-385-080		CAP, ELECT 220-25V
C514	87-010-248-080		CAP, ELECT 220-10V
C531	87-010-263-080		CAP, ELECT 100-10V
C533	87-010-221-080		CAP, ELECT 470-10V
C541	87-010-374-080		CAP, ELECT 47-10V
C543	87-010-221-080		CAP, ELECT 470-10V
C544	87-010-405-080		CAP, ELECT 10-50V
C765	87-018-209-080		CAP, CER 0.1-50V
C1002	87-010-374-080		CAP, ELECT 47-10V
CF1	87-A91-150-010		FLTR, CFAL-455(TOKO)
CF2	87-008-261-010		FILTER, SFE10.7MA5-A
CF3	87-008-261-010		FILTER, SFE10.7MA5-A
CN501	87-049-919-010		CONN, 3P EH V WHT
CN751	87-099-832-010		CONN, 8P S2M-8W
CON201	88-CT6-621-010		SP TERMINAL 4P LEVER
J251	87-009-216-010		JACK, DIA 3.5
L2	87-A50-347-010		COIL, FM BPF EX
L3	87-A50-350-010		COIL, BAR ANT MW <EXCEPT 245K>
L3	87-A50-348-010		COIL, BAR ANT LW/MW <245K>
L4	87-A50-345-010		COIL, FM RF EX
L5	87-A50-343-010		COIL, FM OSC EX<EXCEPT 235U>
L5	87-A50-449-010		COIL, FM OSC U<235U>
L6	87-A50-337-010		COIL, AM OSC (TOKO)<EXCEPT 245K>
L7	87-A50-336-010		COIL, AM IFT (TOKO)
L8	87-A50-335-010		COIL, FM IFT (TOKO)
L9	87-A50-334-010		COIL, FM DET (TOKO)
L10	87-003-102-080		COIL, 10UH
L16	87-A50-339-010		COIL, LW OSC (TOKO)<245K>
L17	87-A50-337-010		COIL, AM OSC (TOKO)<245K>
L330	88-CT6-620-010		REC OSC
PN301	87-A60-110-010		CONN, 4P V S2M-4W
PN302	87-A60-111-010		CONN, 5P V S2M 5W
SFR761	87-024-239-010		SFR, 2.2K V RH0632C
SW1	88-CT7-602-010		SLIDE SW 2P2T
SW301	88-CT6-619-010		BACK SLIDE SW 6P2T SHORTIN
TC5	87-011-221-080		TRIMMER, CAP 30P<245K>
TC6	87-011-221-080		TRIMMER, CAP 30P<245K>
VC1	87-A91-167-010		TUN-CAP, 20P-160P<EXCEPT 245K>
VC1	87-A91-168-010		TUN-CAP, 20P-140P<245K>
W1	88-CT6-632-010		TERMINAL, ASSY MECHA 1P

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
FRONT C.B			
C601	89-654-185-080		CAP, TC 18P-50 J CH UP125
C602	89-654-235-080		CAP TC 27P-50J CH
C603	89-654-275-080		CAP, TC 39P-50 J CH UP125
C604	89-654-215-080		CAP, TC 22P-50 J CH UP125
C605	89-654-275-080		CAP, TC 39P-50 J CH UP125
C606	87-018-134-080		CAPACITOR, TC-U 0.01-16
C607	87-018-134-080		CAPACITOR, TC-U 0.01-16
C608	87-018-209-080		CAP, CER 0.1-50V
C609	87-018-209-080		CAP, CER 0.1-50V
C610	87-010-263-080		CAP, ELECT 100-10V
C611	87-018-209-080		CAP, CER 0.1-50V
C612	87-010-248-080		CAP, ELECT 220-10V
C613	87-010-402-080		CAP, ELECT 2.2-50V
C614	87-018-209-080		CAP, CER 0.1-50V
C615	87-010-400-080		CAP, ELECT 0.47-50V
C616	87-010-401-080		CAP, ELECT 1-50V
C620	87-018-134-080		CAPACITOR, TC-U 0.01-16
C621	87-010-263-080		CAP, ELECT 100-10V
C622	87-010-378-080		CAP, ELECT 10-16V
C834	87-010-404-080		CAP, ELECT 4.7-50V
C835	87-010-544-080		CAP, ELECT 0.1-50V
C838	87-010-401-080		CAP, ELECT 1-50V
C839	87-010-401-080		CAP, ELECT 1-50V
C840	87-010-221-080		CAP, ELECT 470-10V
C841	87-010-401-080		CAP, ELECT 1-50V
C842	87-018-127-080		CAP, CER 470P-50V
C844	87-010-401-080		CAP, ELECT 1-50V
J801	88-CT6-625-010		JACK, MIC
L601	87-003-171-010		COIL, 15UH TROIDAL
LCD601	8Z-CT9-630-010		LCD, HLC7107 ZCT-9
LED602	8Z-CT6-632-010		LED, L-934LID
LED603	8Z-CT6-632-010		LED, L-934LID
LED604	8Z-CT6-632-010		LED, L-934LID
LED605	8Z-CT6-632-010		LED, L-934LID
LED606	8Z-CT6-632-010		LED, L-934LID
LED607	8Z-CT6-632-010		LED, L-934LID
LED608	8Z-CT6-632-010		LED, L-934LID
LED609	8Z-CT6-632-010		LED, L-934LID
LED610	8Z-CT6-632-010		LED, L-934LID
PN601	87-A60-109-010		CONN, 2P V S2M-2W
S602	8Z-CT6-636-010		SW, TACT EVQJAC04M
S603	8Z-CT6-636-010		SW, TACT EVQJAC04M
S604	8Z-CT6-636-010		SW, TACT EVQJAC04M
S605	8Z-CT6-636-010		SW, TACT EVQJAC04M
S606	8Z-CT6-636-010		SW, TACT EVQJAC04M
S607	8Z-CT6-636-010		SW, TACT EVQJAC04M
S608	8Z-CT6-636-010		SW, TACT EVQJAC04M
S609	8Z-CT6-636-010		SW, TACT EVQJAC04M
S610	8Z-CT6-636-010		SW, TACT EVQJAC04M
S611	8Z-CT6-636-010		SW, TACT EVQJAC04M
S612	8Z-CT6-636-010		SW, TACT EVQJAC04M
S613	8Z-CT6-636-010		SW, TACT EVQJAC04M
S614	8Z-CT6-636-010		SW, TACT EVQJAC04M
S615	8Z-CT6-636-010		SW, TACT EVQJAC04M
S616	8Z-CT6-636-010		SW, TACT EVQJAC04M
VR801	87-A90-768-010		VR, RTRY 10KAX1 1 H
X601	87-030-273-010		VIB, XTAL 32.768K5PPM
X602	87-A70-070-080		VIB, CER 5.76MHZ CRHF
CD C.B			
C401	87-010-403-080		CAP, ELECT 3.3-50V
C402	87-018-134-080		CAPACITOR, TC-U 0.01-16
C403	87-010-263-080		CAP, ELECT 100-10V
C404	87-010-248-080		CAP, ELECT 220-10V
C405	87-018-134-080		CAPACITOR, TC-U 0.01-16
C406	87-010-374-080		CAP, ELECT 47-10V
C409	87-010-248-080		CAP, ELECT 220-10V

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C410	87-010-263-080		CAP, ELECT 100-10V	PS C.B			
C412	87-010-544-080		CAP, ELECT 0.1-50V				
C414	87-010-405-080		CAP, ELECT 10-50V	C901	87-A10-577-080		CAP,CER 0.022-50 Z YF
C416	87-010-545-080		CAP, ELECT 0.22-50V	C902	87-A10-577-080		CAP,CER 0.022-50 Z YF
C417	87-018-125-080		CAP, CER 330P-50V	C903	87-A10-577-080		CAP,CER 0.022-50 Z YF
				C904	87-A10-577-080		CAP,CER 0.022-50 Z YF
C425	87-018-129-080		CAP, CER 680P-50V	△ F901	87-035-486-010		FUSE,2.5A 125V<235U>
C430	87-018-123-080		CAP, CER 220P-50V				
C431	87-010-400-080		CAP, ELECT 0.47-50V	△ F901	87-035-191-010		FUSE,3.15A 250V<245LH,HA,K>
C432	87-010-374-080		CAP, ELECT 47-10V	△ FC901	87-A90-160-080		FUSE CLAMP,FC 51F
C433	87-010-401-080		CAP, ELECT 1-50V	△ FC902	87-A90-160-080		FUSE CLAMP,FC 51F
				△ PT901	88-CT6-631-010		POWER TRANS,EI-57/25<245LH,HA>
C435	87-018-134-080		CAPACITOR,TC-U 0.01-16	△ PT901	88-CT7-629-010		PT,U<235U>
C436	87-010-374-080		CAP, ELECT 47-10V	△ PT901	88-CT6-630-010		PT,EZ/K<245K>
C437	87-010-404-080		CAP, ELECT 4.7-50V				
C438	87-018-209-080		CAP, CER 0.1-50V	CD MOTOR C.B			
C442	87-018-059-080		CAP TC-S 22P-50CH				
C445	87-018-209-080		CAP, CER 0.1-50V	M1	9X-262-576-910		MOTOR GEAR ASSY
C446	87-018-209-080		CAP, CER 0.1-50V	M2	9X-262-576-910		MOTOR GEAR ASSY
C447	87-018-209-080		CAP, CER 0.1-50V	PIN3	91-564-722-110		CONNECTOR,6P
C448	87-018-111-080		CAP, CERA-SOL SS 27P	SW1	91-572-085-120		LEAF SW
C450	87-018-127-080		CAP, CER 470P-50V				
C451	87-018-123-080		CAP, CER 220P-50V				
C452	87-018-127-080		CAP, CER 470P-50V				
C453	87-018-119-080		CAP, CER 100P-50V				
C454	87-018-120-080		CAP, CERA-SOL SS 120P				
C455	87-010-263-080		CAP, ELECT 100-10V				
C457	87-018-106-080		CAP,TC-U 15P-50 SL				
C458	87-018-106-080		CAP,TC-U 15P-50 SL				
C459	87-010-263-080		CAP, ELECT 100-10V				
C460	87-018-209-080		CAP, CER 0.1-50V				
C461	87-018-209-080		CAP, CER 0.1-50V				
C462	87-010-248-080		CAP, ELECT 220-10V				
C465	87-010-404-080		CAP, ELECT 4.7-50V				
C466	87-018-209-080		CAP, CER 0.1-50V				
C467	87-010-263-080		CAP, ELECT 100-10V				
C469	87-018-121-080		CAP, CER 150P-50V				
C470	87-010-544-080		CAP, ELECT 0.1-50V				
C475	87-018-134-080		CAPACITOR,TC-U 0.01-16				
C476	87-010-236-080		CAP,E 1000-10 SME				
C477	87-018-134-080		CAPACITOR,TC-U 0.01-16				
C478	87-010-263-080		CAP, ELECT 100-10V				
C479	87-018-134-080		CAPACITOR,TC-U 0.01-16				
C480	87-010-221-080		CAP, ELECT 470-10V				
C481	87-010-405-080		CAP, ELECT 10-50V				
C482	87-010-405-080		CAP, ELECT 10-50V				
C483	87-018-123-080		CAP, CER 220P-50V				
C484	87-018-123-080		CAP, CER 220P-50V				
C489	87-018-209-080		CAP, CER 0.1-50V				
C490	87-018-209-080		CAP, CER 0.1-50V				
C491	87-018-209-080		CAP, CER 0.1-50V				
C492	87-018-134-080		CAPACITOR,TC-U 0.01-16				
C493	87-018-134-080		CAPACITOR,TC-U 0.01-16				
C494	87-018-119-080		CAP, CER 100P-50V				
C495	87-018-119-080		CAP, CER 100P-50V				
C496	87-018-119-080		CAP, CER 100P-50V				
C497	87-018-119-080		CAP, CER 100P-50V				
C498	87-018-119-080		CAP, CER 100P-50V				
C499	87-018-209-080		CAP, CER 0.1-50V				
CN401	87-A60-424-010		CONN,16P V TOC-B				
CN402	87-A60-061-010		CONN,06P V 9604S-06C				
L401	87-003-102-080		COIL, 10UH				
L403	87-003-102-080		COIL, 10UH				
L404	87-003-152-080		COIL, 100UH				
L405	87-003-152-080		COIL, 100UH				
L412	81-NWB-655-010		COIL,10UH TROIDAL				
SFR430	87-024-176-010		SFR,100K DIA6 V				
X401	81-592-641-010		VIB,CER 16.93MHZ				

TRANSISTOR ILLUSTRATION



ECB

2SA933
2SC1740
DTA114TS
DTC114TS
DTC114YS
DTC124XS



BCE

2SB1370



ECB

2SA1296
2SC1815
KTC3198
2SC2001
2SC2240



ECB

2SA1318



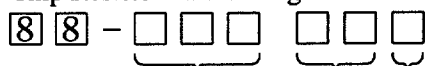
ECB

2SC1923

○チップ抵抗部品コード/CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち

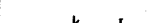
Chip Resistor Part Coding



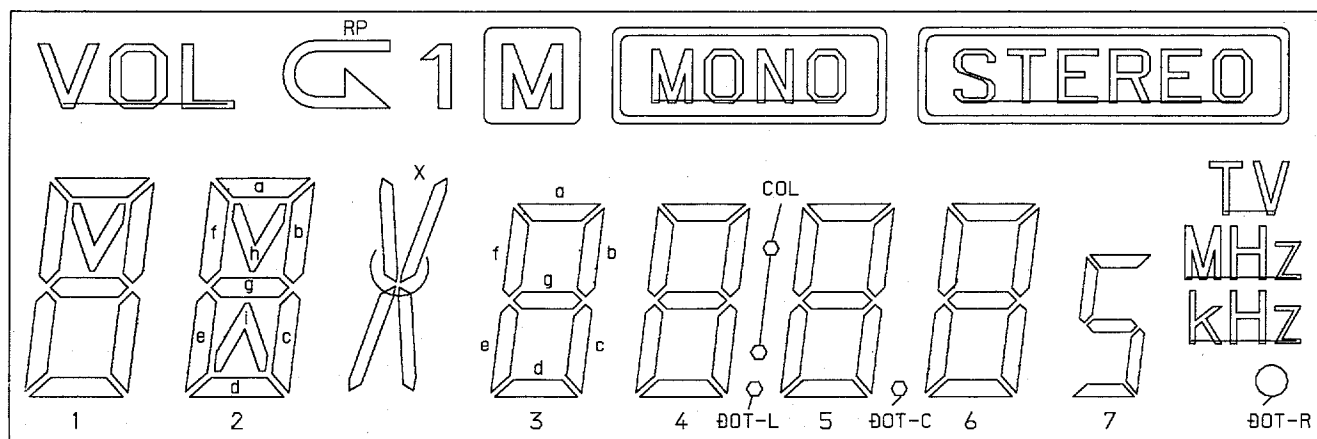
A
抵抗部品コード
Resistor Code

桁表示
Figure
抵抗値
Value of resistor

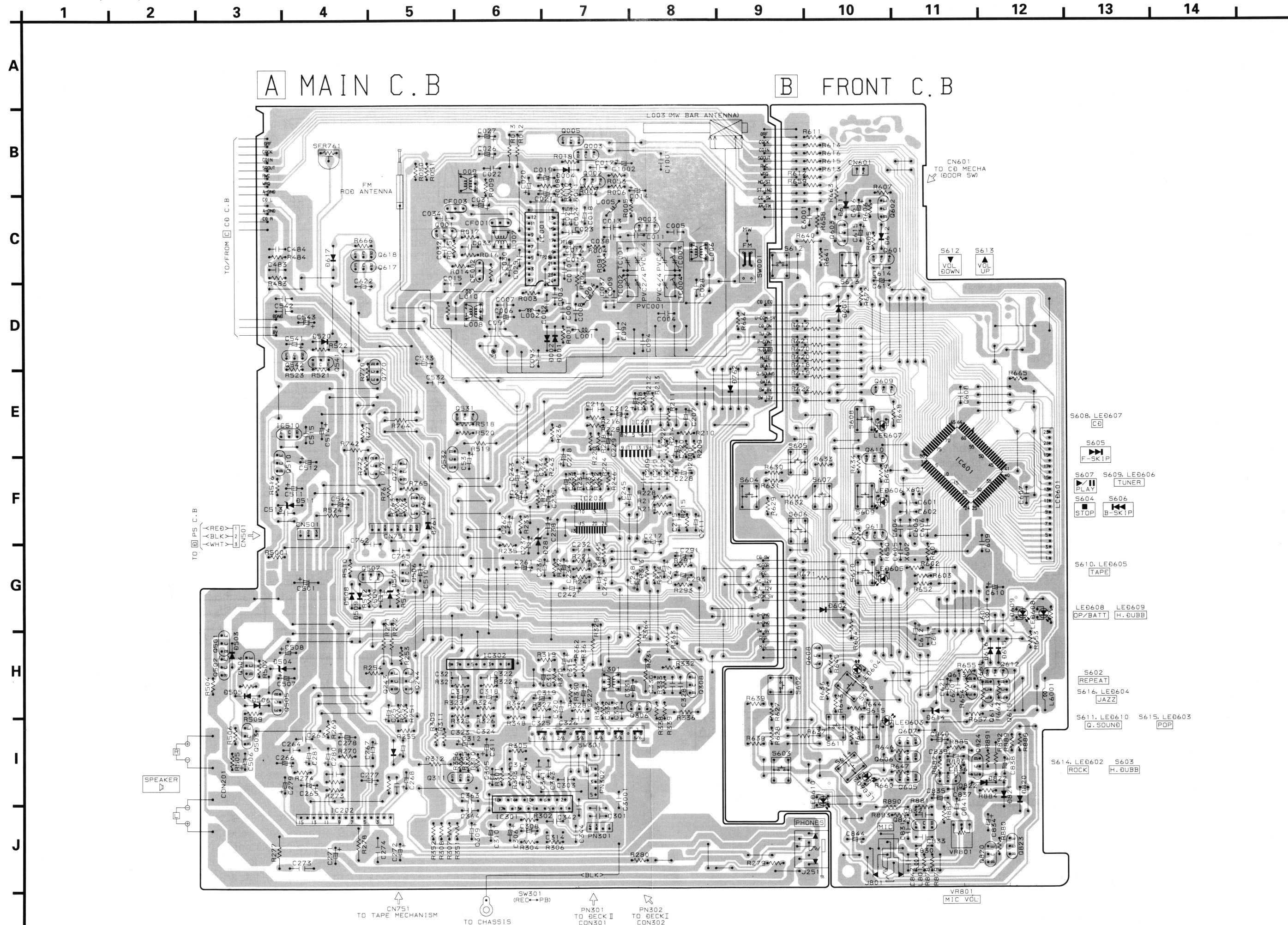
チップ抵抗 Chip resistor

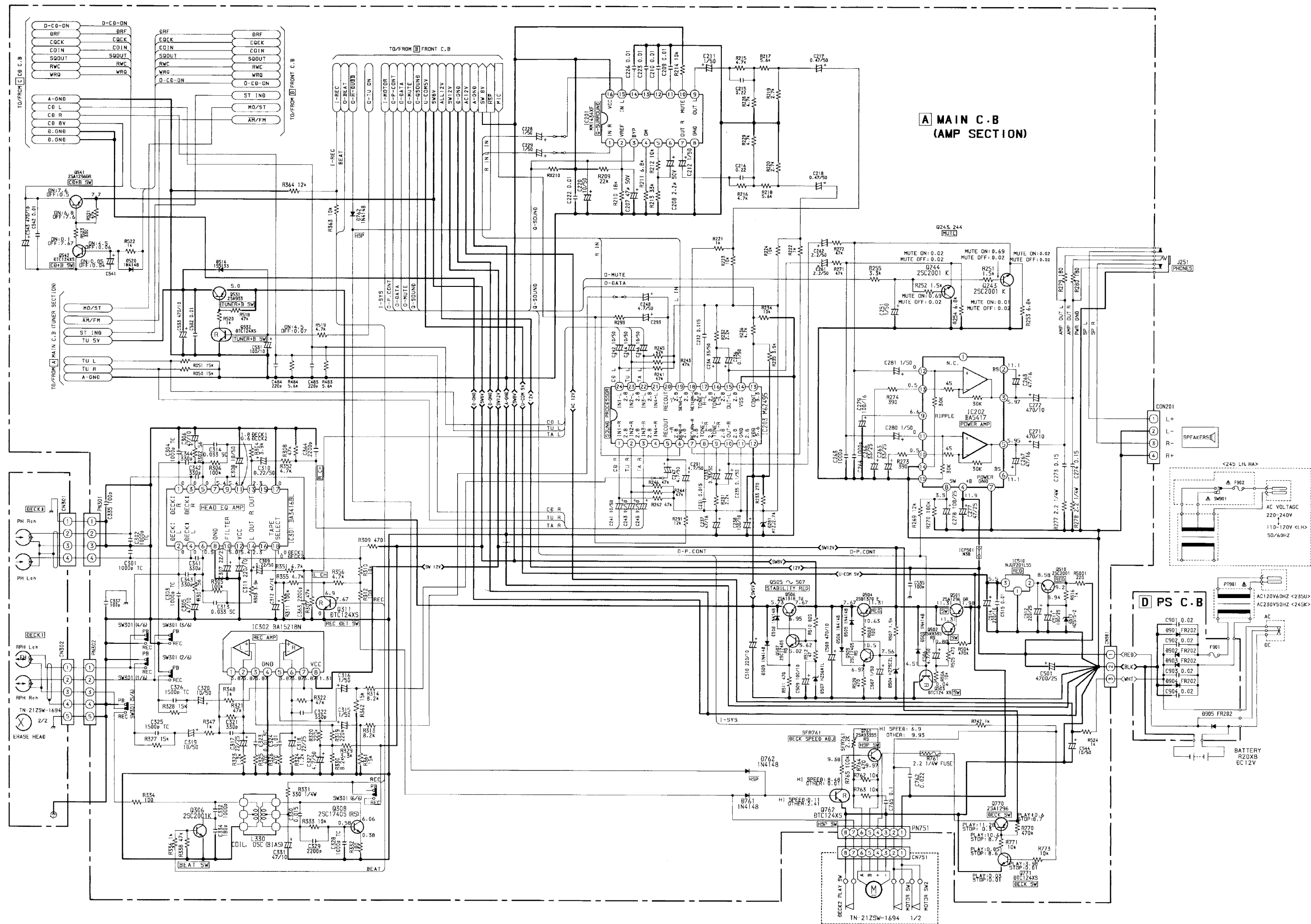
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法/Dimensions (mm)				抵抗コード : A Resistor Code : A
				外形/Form	L	W	t	
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

LCD DISPLAY

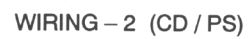


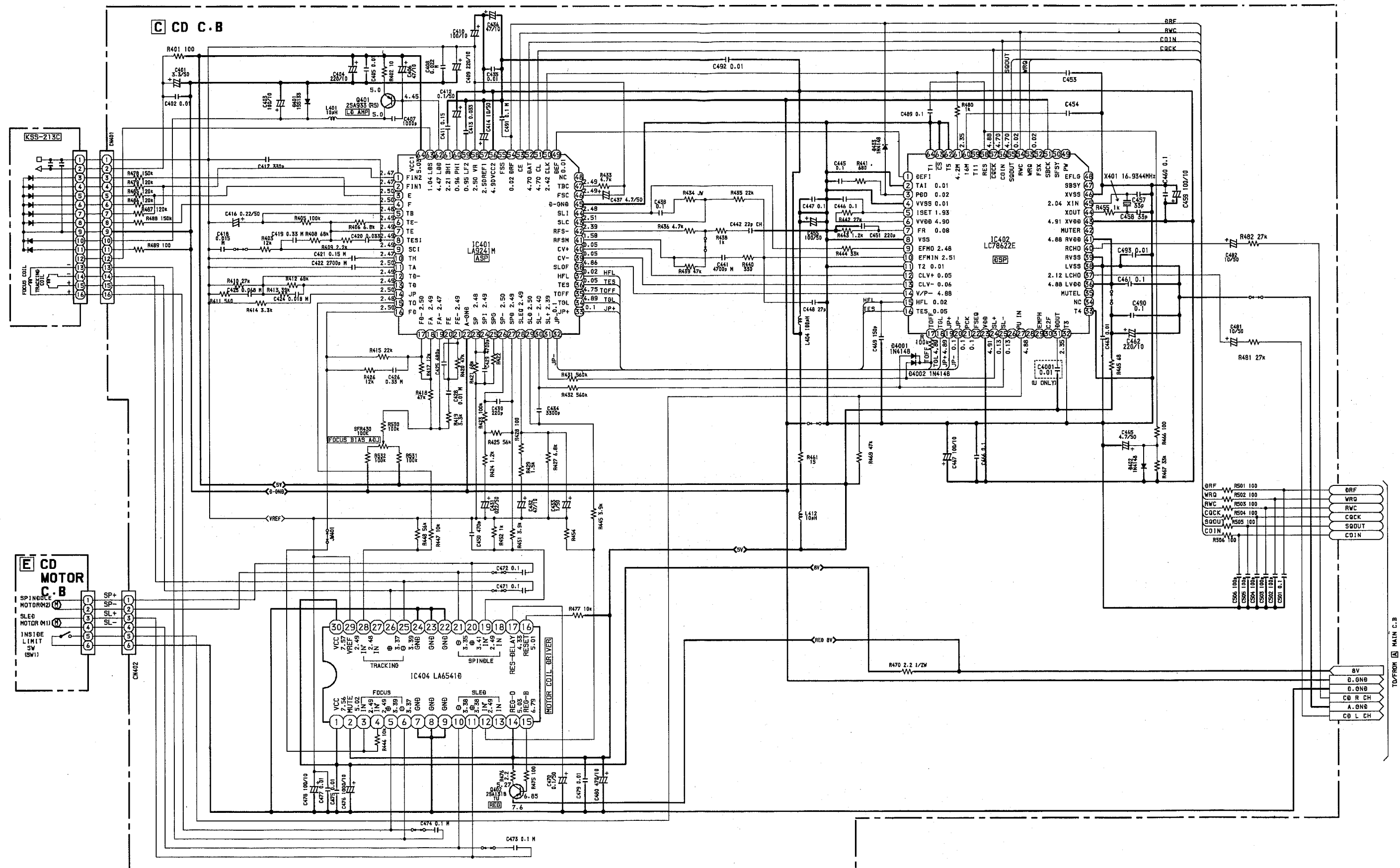
NO.	COM. 1	COM. 2	COM. 3
1	2b	2c	2d
2	1b	1c	1d
3	1a	1f	1e
4	1h	1g	VOL
5	2a	2f	2e
6	2h	2g	2i
7	3f	3e	RP
8	3a	3g	3d
9	3b	3c	1
10	4f	4e	
11	4a	4g	4d
12	4b	4c	
13	COL	DOT-L	
14	5f	5e	DOT-R
15	5a	5g	5d
16	5b	5c	DOT-C
17	6f	6e	
18	6a	6g	6d
19	6b	6c	5
20	TV	MHz	kHz
21	COM. 1		
22		COM. 2	
23			COM. 3

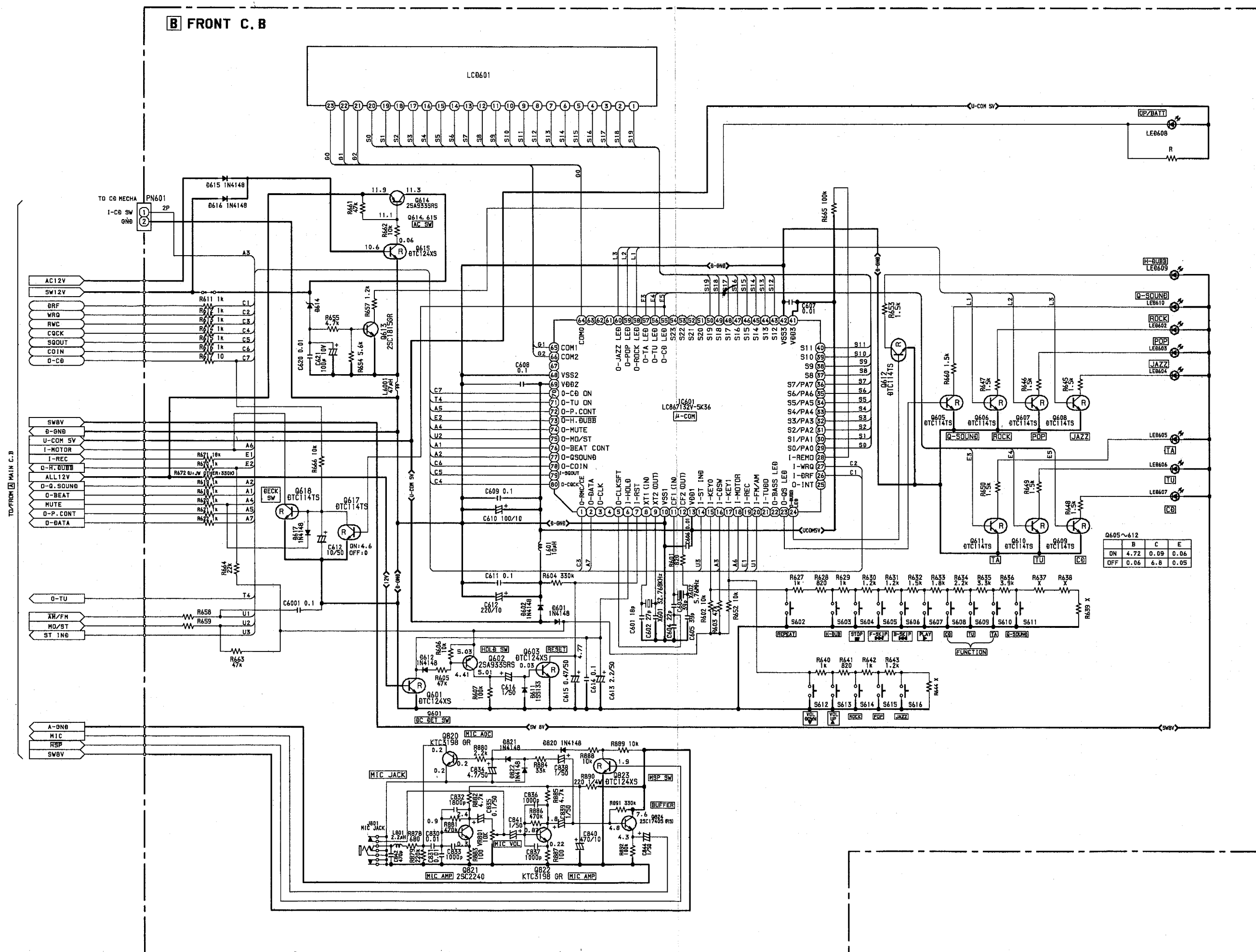




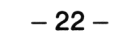
IC, LA1828

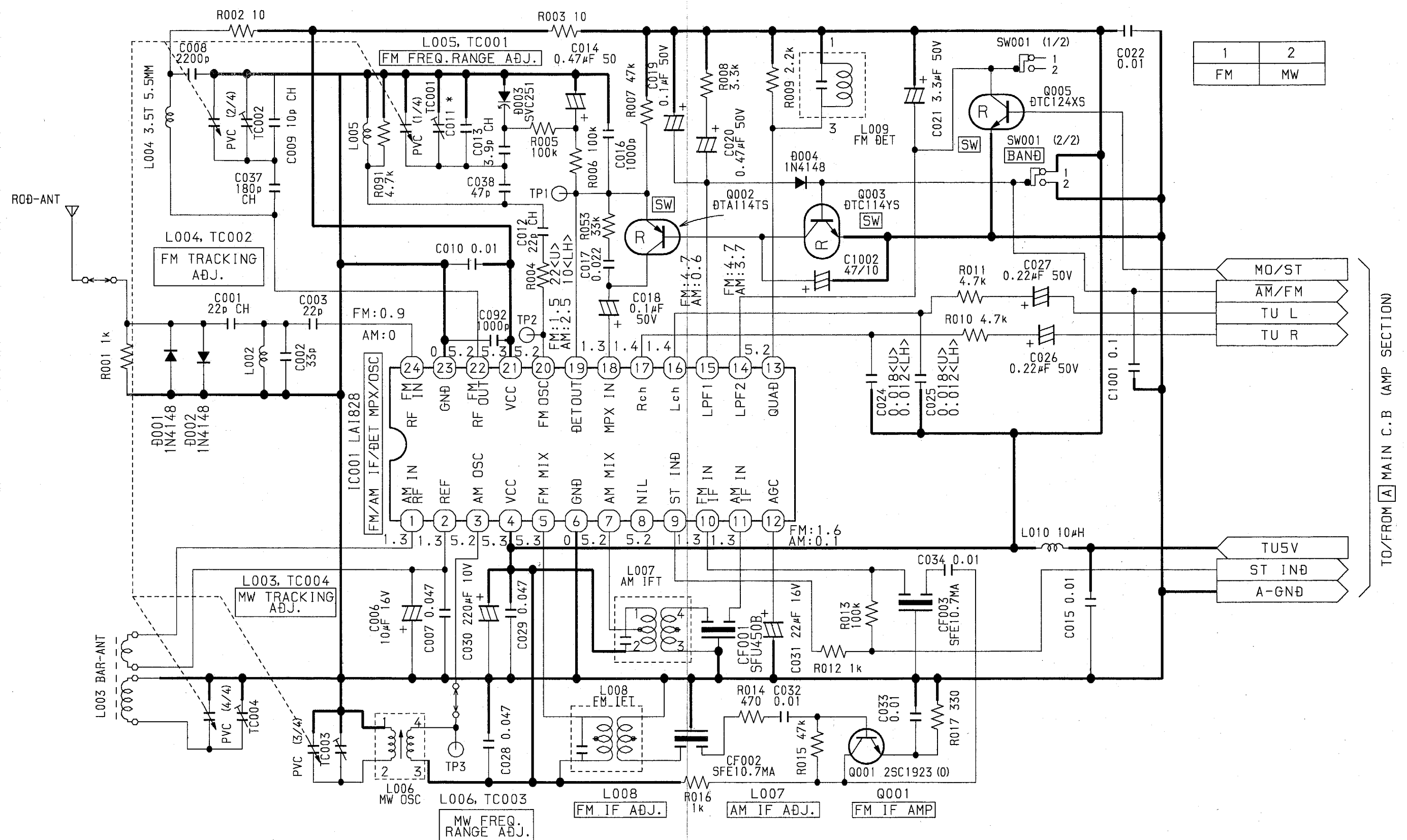


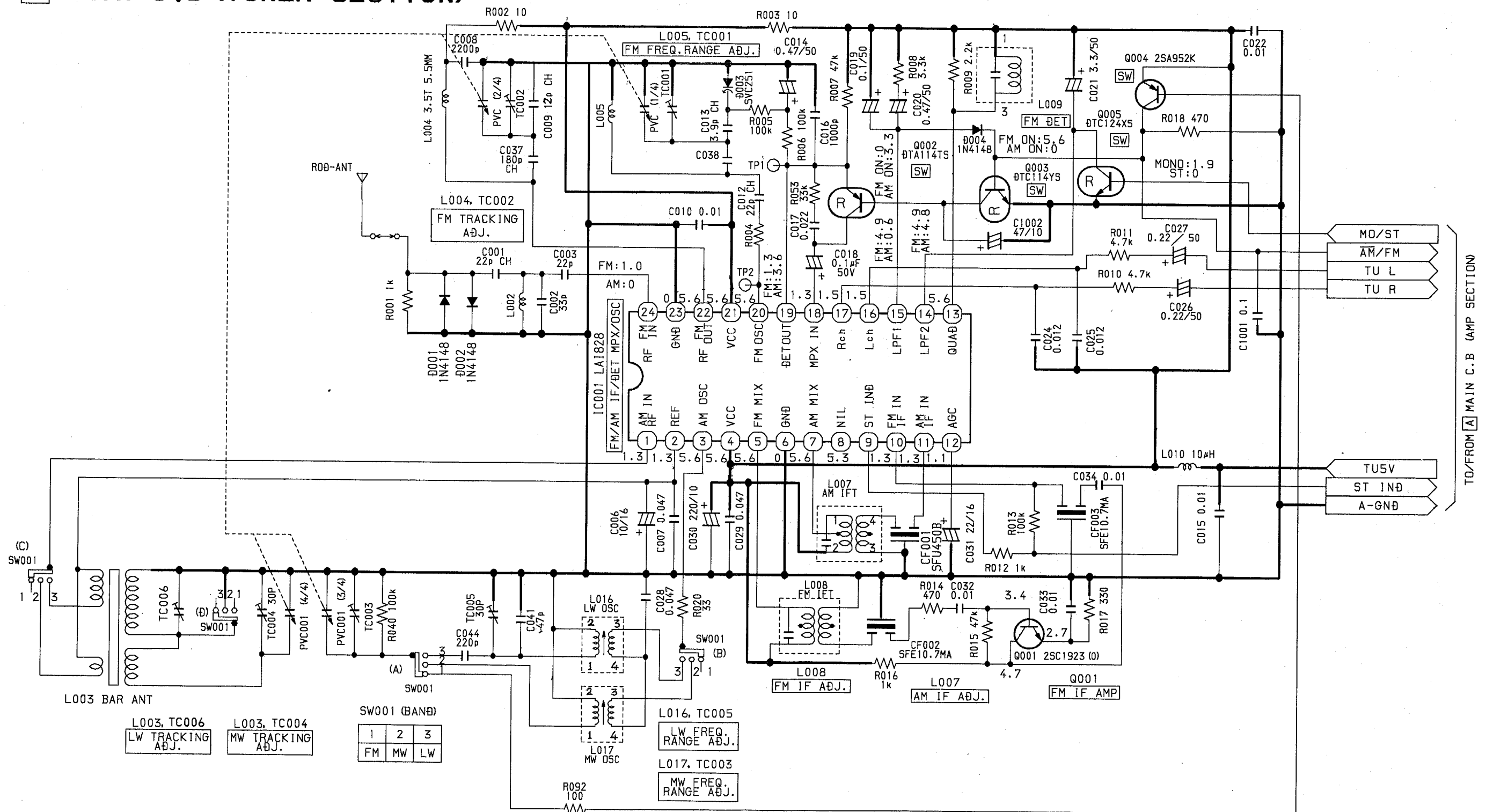




B FRONT C.B



A MAIN C.B (TUNER SECTION)



A MAIN C.B



7. FM Tracking Adjustment
- | | |
|------------|----------|
| L004..... | 90.0MHz |
| TC002..... | 106.0MHz |

8. **FM IF Adjustment**
Settings : • Test point : TP1(DET)
 • Adjustment location : L008
Method : Adjust L008 so that the output level at 98.0MHz becomes maximum.
9. **FM Balance Adjustment**
Settings : • Test point : TP1(DET)
 • 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 : SFR761Method : Play back the test tape and adjust SFR761 so that the frequency counter reads $3000\text{Hz} \pm 5\text{Hz}$.
11. **Head Azimuth Adjustment**
Settings : • Test tape : TTA-320
 - Test point : J251 (PHONES jack)
 - Adjustment location : Azimuth adjustment screwMethod : Play back the 8kHz signal of the test tape and adjust screw so that the output becomes maximum.
12. **Bias frequency Adjustment**
L330..... $56\text{kHz} \pm 2\text{kHz}$.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

FM SECTION

Frequency range : $87.0 \pm 0.5 \sim 109.0 \pm 0.5$ MHz
IHF Sensitivity : Less than 19 dB (at 88.0 MHz)
(THD 3%) Less than 19 dB (at 98.0 MHz)
Less than 19 dB (at 108.0 MHz)
Signal to noise ratio : 69 ± 5.0 dB (at 98.0 MHz)
Intermediate frequency : 10.7MHz
Stereo separation : More than 18dB (at 98.0 MHz)

MW SECTION

Frequency range : $517 \sim 1750$ kHz <U,LH,HA>
 $515 \sim 1635$ kHz <K>
Sensitivity : Less than 42 dB (at 600 kHz)
Less than 43 dB (at 1000 kHz)
Less than 42 dB (at 1400 kHz)
Signal to noise ratio : More than 35dB (at 1000 kHz)
Intermediate frequency : 450 ± 5 kHz

LW SECTION <K>

Frequency range : $145 \sim 295$ kHz
Sensitivity : Less than 54 dB (at 150 kHz)
Less than 52 dB (at 200 kHz)
Less than 50 dB (at 285 kHz)
Signal to noise ratio : More than 24dB (at 200 kHz)

<DECK SECTION>

Tape speed : $3000\text{Hz} \pm 90\text{Hz}$
Wow & flutter : Less than 0.35% (JIS, UNWTD)
Take-up torque : $30 \sim 60\text{g-cm}$
F.F & REW torque : $55 \sim 140\text{g-c}$
S/N ratio : More than 40dB (AC,DC,PB)
More than 40dB (AC,REC/PB)
Distortion : Less than 3.0% (PB,1KHz)
Less than 5% (REC/PB,1KHz)
Erasing ratio : More than 58dB (W/FILTER)
Record bias frequency : 56 ± 2 kHz

IC DESCRIPTION

IC, LC867132V-5K36

Pin No.	Pin Name	I/O	Description
1	O-RMC/CE	O	CD read/write control output and TU CE.
2	O-DATA	O	Data output to LC72121M, M62495FP.
3	O-CLK	O	Output LC72121M CLK.(Not connected)
4	NC	—	Not Connected.
5	O-CLK SFT	O	Clock shift output of the microcomputer.
6	I-HOLD	I	Hold status detection.
7	I-RST	I	Microcomputer reset.
8	XT1 (IN)	I	Connected to 32.768KHZ crystal oscillator.
9	XT2 (OUT)	O	
10	VSS1	—	GND.
11	CF1 (IN)	I	Connected to 6MHZ Ceramic Filter.
12	CF2 (OUT)	O	
13	VDD1	—	Power supply for microcomputer (+5V).
14	I-ST IND	I	FM STEREO status input.
15	I-KEYO	I	KEY AD input.
16	I-CD SW	I	CD DOOR SW status detection input.
17	I-KEY1	I	KEY AD input.
18	I-MOTOR	I	DECK MECHA MOTOR status input.
19	I-REC	I	REC status input.
20	I-FM/AM	I	FM, AM status input.
21	I-TU DO	I	Data input from LC72121M.(Not connected)
22	O-BASS LED(NC)	O	BASS LED ON/OFF control output. (Not connected)
23	O-QS LED	O	Q-Sound LED ON/OFF control output.
24	O-DUBB LED	O	LED control output used for high-speed dubbing.
25	O-INT	O	INT DIODE MATRIX detection output.(Not connected)
26	I-DRF	I	CD RF level detection input.
27	I-WRQ	I	CD sub-code Q standby input.
28	I-REMO	I	Remote control input.
29	S0-PA0	O	LCD segment output and initial settings output. (SW)
30	S1/PA1	O	LCD segment output and initial settings output. (LW)
31	S2/PA2	O	LCD segment output and initial settings output. (MW 10K)
32	S3/PA3	O	LCD segment output and initial settings output. (FM WIDE)
33	S4/PA4	O	LCD segment output and initial settings output. (AMST)
34	S5/PA5	O	LCD segment output and initial settings output. (SW2)
35	S6/PA6	O	LCD segment output and initial settings output.
36	S7/PA7	O	LCD segment output and initial settings output.
37~40	S8~S11	O	
41	VDD3	—	Power supply for microcomputer (+5V).
42	VSS3	—	GND.
43~50	S12~S19	O	LCD segment output.
51~54	S20~S23 (NC)	O	LCD segment output. (Not Connected)
55	O-CD LED	O	LED ON/OFF control output for CD functions.

Pin No.	Pin Name	I/O	Description
56	O-TU LED	O	LED ON/OFF control output for TU functions.
57	O-TA LED	O	LED ON/OFF control output for TAPE functions.
58	O-ROCK LED	O	LED ON/OFF control output for ROCK.
59	O-POP LED	O	LED ON/OFF control output for POP.
60	O-JAZZ LED	O	LED ON/OFF control output for JAZZ.
61	NC	–	Not connected.
62	–	–	
63	–	–	
64~66	COM0~COM2	O	LCD common output.
67	NC	–	Not connected.
68	VSS2	–	GND.
69	VDD2	–	Power supply for microcomputer (+5V).
70	O-CD ON	O	CD PWR control output.
71	O-TU ON	O	TU PWR control output.
72	O-P.CONT	O	Power supply control output.
73	<u>O-H.DUBB</u>	O	Dubbing speed control output.
74	O-MUTE	O	Main mute output.
75	O-FM MONO	O	FM mono output.
76	O-BEAT CONT	O	BEAT switch over output.
77	O-QSOUND	O	Q-Sound ON/OFF output.
78	O-COIN	O	CD command output.
79	I-SQOUT	I	CD sub-code Q input.
80	O-CQCK	O	CLK for CD commands/sub-codes.

IC, LC78622ED

Pin No.	Pin Name	I/O	Description
1	DEFI	I	Defect detection signal input. (Must be connected to 0V when unused.
2	TAI	I	A pull down resistor is built in. Must be connected to 0V.
3	PDO	O	External VCO control phase comparator output.
4	VVSS	–	Internal VCO ground.
5	ISET	I	PDO output current adjustment resistor connection.
6	VVDD	–	Internal VCO power supply.
7	FR	I	VCO frequency range adjustment.
8	VSS	–	Digital system ground. Must be connected to 0V.
9	EFMO	O	EFM signal output pin.
10	EFMIN	I	EFM signal input pin.
11	TEST 2	I	Test pin. Must be connected to 0V.
12	CLV+	O	Disc motor control output.
13	CLV-	O	Disc motor control output.
14	V / $\overline{P}$	O	Rough servo/phase control automatic switching monitor output. Rough servo at “H”. Phase servo at “L”.
15	HFL	I	Track detection signal input.
16	TES	I	Tracking error signal input.
17	TOFF	O	Tracking off output.
18	TGL	O	Tracking gain switching output.
19	JP+	O	Track jump output.
20	JP-	O	Track jump output.
21	PCK	O	EFM data playback monitor. Outputs 4.3218MHz when the phase is locked.
22	FSEQ	O	Synchronization signal detection output. (Not connected)
23	VDD	–	Digital system power supply.
24	SL+	O	Move sled to outer track direction.
25	SL-	O	Move sled to inner track direction.
26, 28	—	–	Not connected.
27	PU IN	I	CD PICK UP inner switch detection.
29	EMPH	O	De-emphasis monitor pin. A high level indicates playback of a de-emphasis disc. (Not connected)
30	C2F	O	C2 flag output. (Not connected)
31	DOUT	O	Digital output. (E I A J format) (Not connected)
32	TEST 3	I	Test input. Must be connected to 0V.
33	TEST 4	I	Test input. Must be connected to 0V.
34	N.C.	–	Not connected.
35	MUTE L	O	Left channel mute output.
36	L VDD	–	Left channel power supply.
37	L CHO	O	Left channel output.
38	L VSS	–	Left channel ground.
39	R VSS	–	Right channel ground.
40	R CHO	O	Right channel output.
41	R VDD	–	Right channel power supply.
42	MUTE R	O	Right channel mute output.
43	X VDD	–	Crystal oscillator power supply.

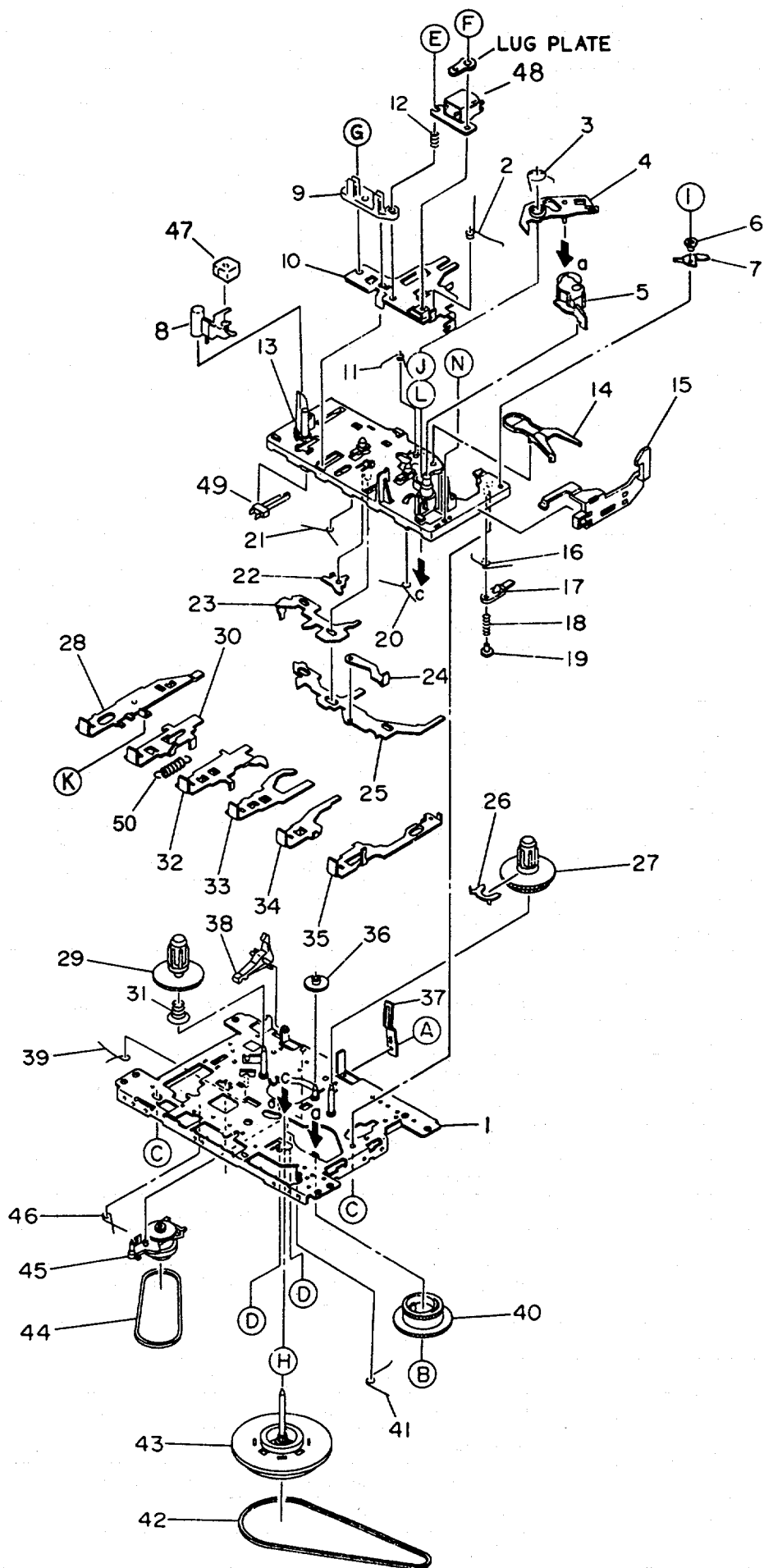
Pin No.	Pin Name	I/O	Description
44	X OUT	O	Connections for a 16.934MHz crystal oscillator element.
45	X IN	I	
46	X VSS	–	Crystal oscillator ground.
47	SBSY	O	Subcode block synchronization signal. (Not connected)
48	EFLG	O	C1,C2 single and double error correction monitor pin. (Not connected)
49	PW	O	Subcode P,Q,R,S,T,U and W output. (Not connected)
50	SFSY	O	Subcode frame synchronization signal output. (Not connected)
51	SBCK	I	Subcode readout clock input. Must be connected to 0V when unused.
52	FSX	O	Output for the 7.35kHz synchronization signal divided from the crystal oscillator. (Not connected)
53	WRQ	O	Subcode Q output standby output.
54	RWC	I	Read / Write control input.
55	SQOUT	O	Subcode Q output.
56	COIN	I	Command input from the control microprocessor.
57	$\overline{\text{COCK}}$	I	Input for command input acquisition clock and SQOUT pin subcode readout clock.
58	$\overline{\text{RES}}$	I	Chip reset input.
59	T11	O	Test output. Leave open. (Not connected)
60	16M	O	16.9344MHz output. (Not connected)
61	4.2M	O	4.2336MHz output.
62	T5	I	Test input. Must be connected to 0V.
63	$\overline{\text{CS}}$	I	Chip select input. Must be connected to 0V if not controlled.
64	T1	I	Test input. Must be connected to 0V.

IC, LA9241M

Pin No.	Pin Name	I/O	Description
1	FIN2	I	Connected to pickup photo-diode. Adding with FIN1 pin generates RF signal, and subtracting from FIN1 generates FE signal.
2	FIN1	I	Connected to pickup photo-diode.
3	E	I	Connected to pickup photo-diode. Subtracting from F pin generates TE signal.
4	F	I	Connected to pickup photo-diode.
5	TB	I	Input DC components parts of TE signal.
6	TE–	O	Connected to TE pin with resistor set TE signal gain.
7	TE	O	Output TE signal.
8	TESI	I	Input TES (TRACK ERROR SENSE) comparator. Band pass and input TE signal.
9	SCI	I	Input shock detection.
10	TH	I	Establish tracking gain value.
11	TA	O	TA amplifier output.
12	TD–	I	Compose tracking phase compensation value between TD and VR pins.
13	TD	O	Used for tracking phase compensation setting.
14	JP	I	Establish amplitude of tracking jump signal (kick pulse).
15	TO	O	Output tracking control signal.
16	FD	O	Output focusing control signal.
17	FD–	I	Compose focusing phase compensation value between FD and FA pins.
18	FA	O	Compose focusing phase compensation value between FD- and FA- pins.
19	FA–	I	Compose focusing phase compensation value between FA and FE pins.
20	FE	O	Output FE signal.

Pin No.	Pin Name	I/O	Description
21	FE-	I	Connected to TE pin with resistor set FE signal gain.
22	A-GND	-	Analog GND.
23	SP	O	Output single-end for CV+ and CV- pins input signal.
24	SPI	I	Spindle amplifier input.
25	SPG	I	Connect resistor for gain setting at spindle 12cm mode.
26	SP-	I	Connect spindle phase compensation value with SPD pin.
27	SPD	O	Output spindle control signal.
28	SLEQ	I	Connect sled phase compensation value.
29	SLD	O	Output sled control signal.
30	SL-	I	Input sled sending signal from microcomputer.
31	SL+		
32	JP-	I	Input tracking jump signal from DSP.
33	JP+		
34	TGL	I	Input tracking gain control signal from DSP. TGL = "H" : gain low.
35	TOFF	I	Input tracking off control signal from DSP. TOFF = "H" : off.
36	TES	O	Output TES signal to DSP.
37	HFL	O	HIGH FREQUENCY LEVEL: detects whether main-beam is on pit or mirror position.
38	SLOF	I	Input sled servo off control.
39	CV-	I	Input CLV error signal from DSP.
40	CV+		
41	RFSM	O	Output RF.
42	RFS-	O	Establish RF gain and 3T compensation value from EFM signal with RFSM pin.
43	SLC	O	SLICE LEVEL CONTROL: control data slice level by DSP with RF wave form.
44	SLI	I	Control data slice level by DSP.
45	D-GND	-	Digital GND.
46	FSC	O	Connected to focus search smoothing capacitor.
47	TBC	I	TRACKING BALANCE CONTROL: establish EF balance variable range.
48	NC	-	Not used.
49	DEF	O	Output disc defect detection.
50	CLK	I	Input reference clock. Inputs 4.23 MHz from DSP.
51	CL	I	Input microcomputer command clock.
52	DAT	I	Input microcomputer command data.
53	CE	I	Input microcomputer command chip enables.
54	DRF	O	DETECT RF: Output RF level detection.
55	FSS	I	FOCUS SEARCH SELECT: switches focus search mode (between $\pm$ search and + search against reference voltage). (Not connected)
56	VCC2	-	Servo/digital VCC.
57	REF1	-	Connected to reference voltage bypass condenser.
58	VR	O	Output reference voltage.
59	LF2	-	Establish value in detecting disc defect.
60	PH1	-	Connected to capacitor used to hold peak of RF signal.
61	BH1	-	Connected to capacitor used to hold bottom of RF signal.
62	LDD	O	APC-circuit output pin.
63	LDS	I	APC-circuit input pin.
64	VCC1	-	RF VCC.

TAPE MECHANISM EXPLODED VIEW 1 / 2

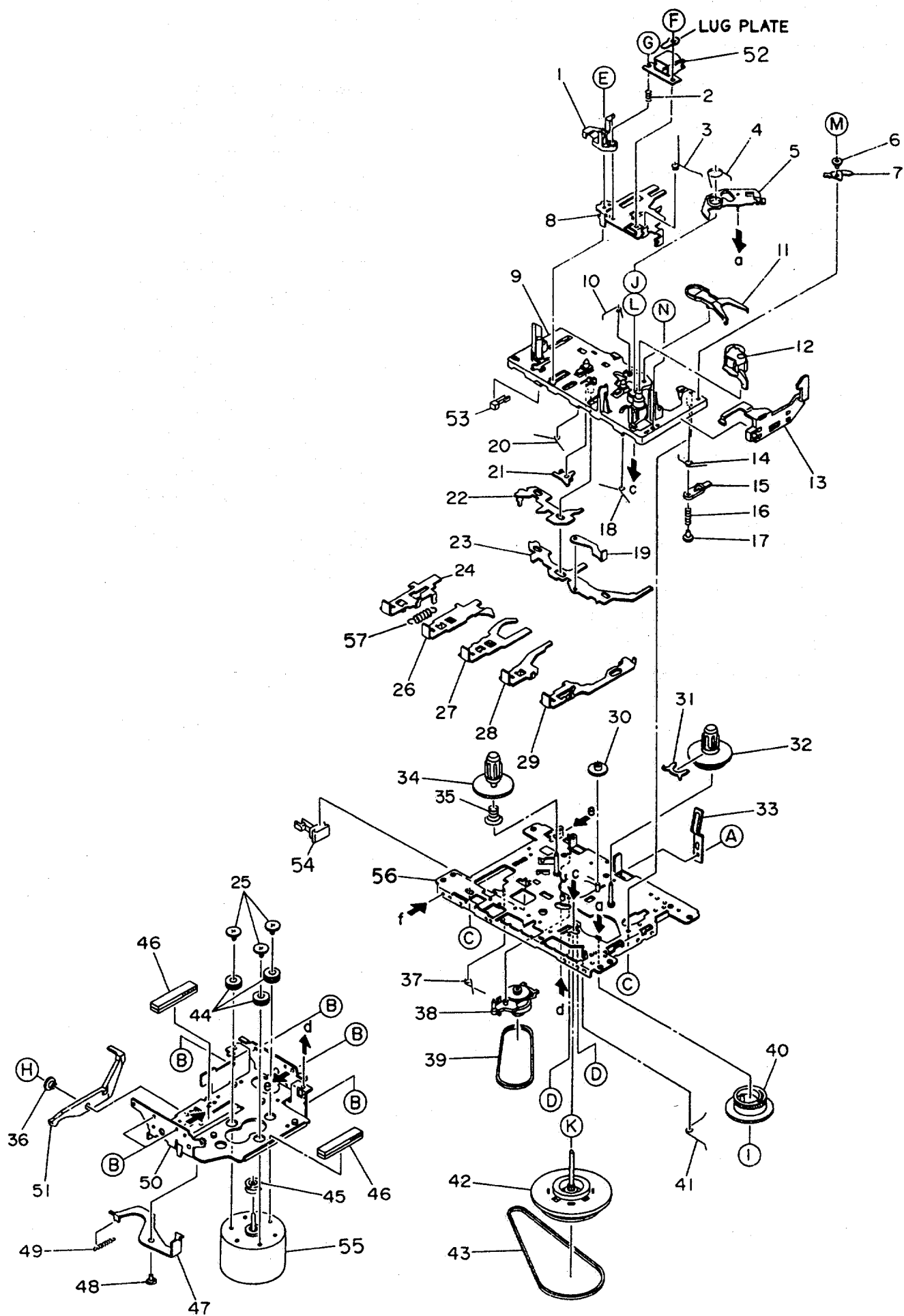


TAPE MECHANISM PARTS LIST 1 / 2

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

REF. NO	PART NO.	KANRI NO.	DESCRIPTION			
1	S1-921-015-010		CHASSIS ASSY	36	S1-821-100-700	FF GEAR
2	S1-921-030-030		PANEL P SPRING	37	S1-829-100-010	PACK SPRING
3	S1-921-260-050		GEAR PLATE SPRING	38	S1-821-100-690	RECORD SAFETY LEVER
4	S1-921-265-020		GEAR PLATE ASSY	39	S1-921-140-210	REC BUTTON LEVER SPRING
5	S1-921-043-090		PINCH ROLLER ARM ASSY	40	S1-921-260-020	CAM GEAR
6	S1-921-140-370		P ARM COLLER	41	S1-921-140-160	E ACTUATOR SPRING
7	S1-921-140-340		P ARM	42	S1-921-090-240	MAIN BELT
8	S1-921-030-050		MG ARM	43	S1-921-093-030	FLYWHEEL ASSY
9	S1-921-030-4A0		HEAD BASE	44	S1-921-070-030	RF BELT
10	S1-921-030-110		HEAD PANEL	45	S1-921-073-080	RF CLUTCH ASSY
11	S1-921-141-8A0		M CONTROL SPRING	46	S1-921-140-170	P.S.LEVER SPRING
12	S1-821-030-070		AZIMUTH SPRING	47	S6-209-100-100	E HEAD PH-K380-MS1
13	S1-921-143-010		BASE ASSY	48	S6-201-011-110	HEAD,RP7442ES-0951
14	S1-921-260-4A0		SENSING LEVER	49	S6-401-011-520	LEAF SW MSW-1541F
15	S1-921-130-020		EJECT SLIDE LEVER	50	S1-821-010-500	PLAY BUTTON LEVER SPRING
16	S1-921-141-3A0		P CONTROL SPRING	A	S9-P33-200-320	DEL TITE SCREW M2-3
17	S1-921-140-820		PAUSE LEVER(F)	B	S9-422-000-000	P WASHER CUT 12-3.8-0.3
18	S1-921-140-120		PAUSE LEVER SPRING	C	S9-679-000-000	P TAP SCREW M2-5
19	S1-921-140-110		PAUSE STOPPER	D	S9-999-180-090	TAP SCREW M2-4.5
20	S1-921-140-150		BUTTON LEVER SPRING(B)	E	S9-922-000-000	AZIMUTH SCREW M2-8
21	S1-921-140-140		BUTTON LEVER SPRING(A)	F	S9-P01-200-310	SCREW,M2-3
22	S1-921-140-200		PR STOPPER	G	S9-004-000-000	SCREW,M2-6
23	S1-921-140-090		SWITCH ACTUATOR	H	S9-882-000-000	P WASHER 2-3.5-0.4
24	S1-821-011-590		E KICK LEVER	I	S9-999-200-410	P TAP SCREW M2-3
25	S1-921-140-080		PUSH BUTTON ACTUATOR	J	S9-999-030-130	P WASHER CUT 1.45-3.8-0.
26	S1-921-050-060		SENSOR	K	S9-179-000-000	C TAP SCREW M2-3
27	S1-921-053-030		TAKE UP REEL ASSY	L	S9-999-000-030	P WASHER2.1-4-0.13
28	S1-921-140-220		REC BUTTON LEVER	M	S9-181-000-000	C TAP SCREW M2-5
29	S1-921-053-040		SUPPLY REEL ASSY	N	S9-P05-200-610	S TAPPING SCREW M2-6
30	S1-921-140-230		PLAY BUTTON LEVER			
31	S1-829-100-100		BACK TENSION SPRING			
32	S1-921-140-240		REW BUTTON LEVER			
33	S1-921-140-250		FF BUTTON LEVER			
34	S1-921-140-260		STOP BUTTON LEVER			
35	S1-921-140-610		PAUSE BUTTON LEVER			

TAPE MECHANISM EXPLODED VIEW 2 / 2

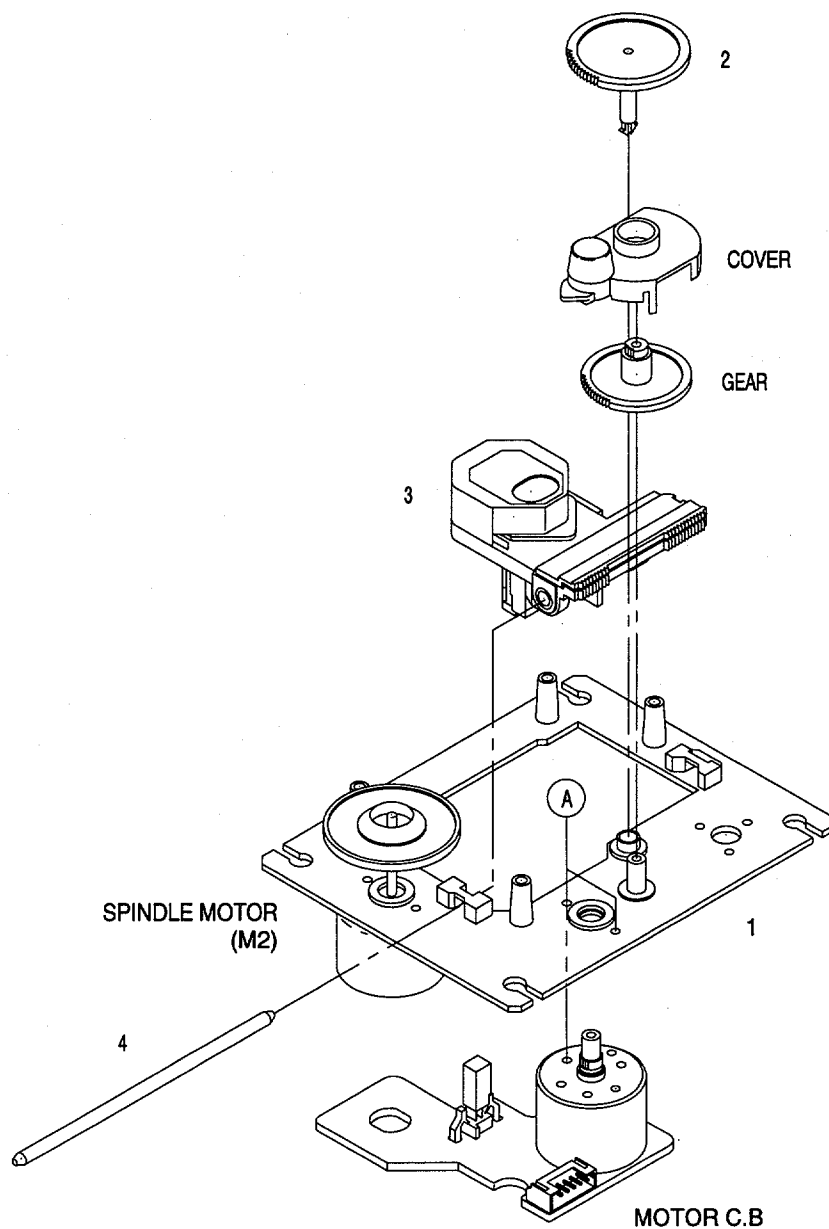


TAPE MECHANISM PARTS LIST 2 / 2

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	S1-921-093-040		FLYWHEEL ASSY
3	S1-921-030-030		PANEL P SPRING	43	S1-921-090-240		MAIN BELT
4	S1-921-260-050		GEAR PLATE SPRING	44	S1-820-130-060		MOTOR RUBBER
5	S1-921-265-020		GEAR PLATE ASSY	45	S1-921-120-130		MOTOR PULLEY
6	S1-921-140-370		P ARM COLLER	46	S1-921-120-120		ANTI VIBR FELT MAT
7	S1-921-140-340		P ARM	47	S1-821-120-680		P KICK LEVER (A)
8	S1-921-030-110		HEAD PANEL	48	S1-821-120-230		PK COLLER SCREW A
9	S1-921-143-010		BASE ASSY	49	S1-821-120-250		P KICK LEVER SPRING
10	S1-921-141-8A0		M CONTROL SPRING	50	S1-921-120-110		MOTOR BRACKET
11	S1-921-260-4A0		SENSING LEVER	51	S1-921-120-090		P KICK LEVER
12	S1-921-043-090		PINCH ROLLER ARM ASSY	52	S6-201-011-110		HEAD,RP7442ES-0951
13	S1-921-130-020		EJECT SLIDE LEVER	53	S6-401-011-520		LEAF SW MSW-1541F
14	S1-921-141-3A0		P CONTROL SPRING	54	S6-401-011-610		LEAF SW MSW-17820MVE1
15	S1-921-140-820		PAUSE LEVER(F)	55	S6-002-030-290		MOTOR EG530YD-2BH
16	S1-921-140-120		PAUSE LEVER SPRING	56	S1-921-015-010		CHASSIS ASSY
17	S1-921-140-110		PAUSE STOPPER	57	S1-821-010-500		PLAY BUTTON LEVER SPRING
18	S1-921-140-150		BUTTON LEVER SPRING(B)	A	S9-P33-200-320		DEL TITE SCREW M2-3
19	S1-821-011-590		E KICK LEVER	B	S9-180-000-000		C TAP SCREW M2-4
20	S1-921-140-140		BUTTON LEVER SPRING(A)	C	S9-679-000-000		P TAP SCREW M2-5
21	S1-921-140-200		PR STOPPER	D	S9-999-180-090		TAP SCREW M2-4.5
22	S1-921-140-090		SWITCH ACTUATOR	E	S9-004-000-000		SCREW M2-6
23	S1-921-140-080		PUSH BUTTON ACTUATOR	F	S9-P01-200-310		SCREW,M2-3
24	S1-921-140-230		PLAY BUTTON LEVER	G	S9-922-000-000		AZIMUTH SCREW M2-8
25	S1-821-120-020		MOTOR COLLER SCREW	H	S9-182-000-000		C TAP SCREW M2-6
26	S1-921-140-240		REW BUTTON LEVER	I	S9-422-000-000		P WASHER CUT 12-3.8-0.3
27	S1-921-140-250		FF BUTTON LEVER	J	S9-999-030-130		P WASHER CUT 1.45-3.8
28	S1-921-140-260		STOP BUTTON LEVER	K	S9-882-000-000		P WASHER 2-3.5-0.4
29	S1-921-140-610		PAUSE BUTTON LEVER	L	S9-999-000-030		P WASHER2.1-4-0.13
30	S1-821-100-700		FF GEAR	M	S9-999-200-410		P TAP SCREW M2-3
31	S1-921-050-060		SENSOR	N	S9-P05-200-810		SCREW,S TAP 2-8
32	S1-921-053-030		TAKE UP REEL ASSY				
33	S1-829-100-010		PACK SPRING				
34	S1-921-053-040		SUPPLY REEL ASSY				
35	S1-829-100-100		BACK TENSION SPRING				
36	S1-821-120-650		COLLER B				
37	S1-921-140-170		P.S.LEVER SPRING				
38	S1-921-073-080		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

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-CT9-905-010	IB,U(ESF)FM<235U>
	2	8Z-CT9-906-010	IB,LH(ESP)FM<245LH,LA>
	3	8Z-CT9-909-010	IB,K(E)FM<245K>
△	4	87-050-076-010	AC CORD SET ASSY,E<245LH>
△	4	87-A80-109-010	AC CORD,HK7281 BLK U<235U>
△	4	87-A80-119-010	AC CORD SET ASSY,AZ<245HA>
△	4	87-050-099-010	AC CORD SET ASSY,K<245K>
△	5	87-A90-312-010	PLUG CONVERSION WTN-1157R1<245LH>

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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