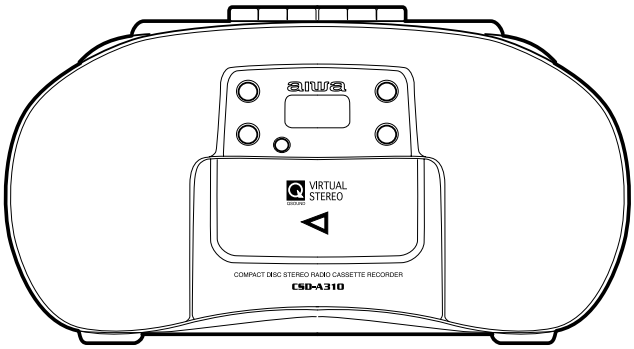
aiwa SERVICE

CSD-A310 HA
CSD-A319 LH



SERVICE MANUAL

COMPACT DISC STEREO
RADIO CASSETTE RECORDER

BASIC TAPE MECHANISM : ZZM-1 AR4NC
BASIC CD MECHANISM : DA11T3C

• This Service Manual is for CSD-A310 (HA) Orange color.

aiwa

S/M Code No. 09-008-428-2N1

DATA

SPECIFICATIONS

<Tuner section>

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

<Deck section>

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

<CD player section>

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

<General>

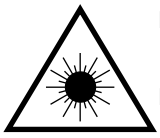
Speaker 80 mm cone type (2)
Outputs Headphones jack: stereo mini-jack
Power output 2.5 W + 2.5 W
(EIAJ 7 ohms, T.H.D. 10 %)
1.9 W + 1.9 W
(DIN 1% Rated Power)
Power requirements DC 12 V using eight size C (R14) batteries
AC 110 - 120 V/220 - 240 V switchable, 50/60 Hz
Power consumption 16 W
Dimensions (W x **H** x **D)** 310 x 171 x 260 mm
Weight 2.8 kg (excluding batteries)

• Design and specifications are subject to change without notice.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

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



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

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

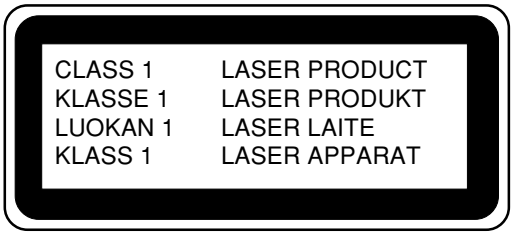
VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herin may result in hazardous radiation exposure.

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

ADVARSEL
Usynlig laserståling ved åbning, når sikkerhedsafbrydereer 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.

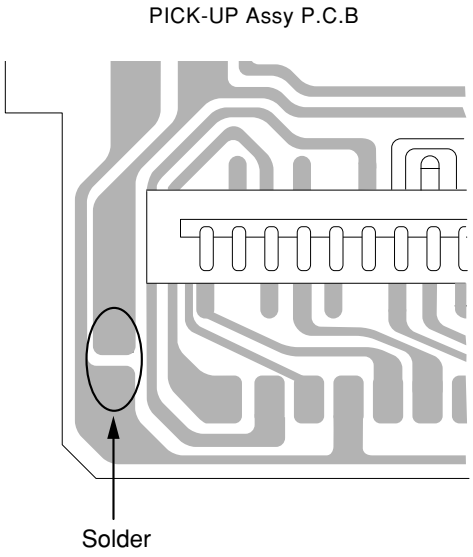


Precaution to replace Optical block

(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 right figure.



ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A20-955-010		IC,LA1828
	87-A21-064-010		IC,LA4227
	87-A21-520-040		C-IC,M61509FP
	87-A20-446-010		C-IC,LA9241ML
	87-A20-459-010		C-IC,LC78622ED
	87-A21-093-010		IC,LA6541D
	8A-CD9-610-010		C-IC,LC865516A-5P16
	87-A21-607-010		IC,NJM14558LD
TRANSISTOR			
	89-327-143-080		TR,2SC2714 (0.1W)
	87-026-447-080		TR,2SC1740S R
	87-026-463-080		TR,2SA933S (0.3W)
	87-A30-288-040		CHIP-TR,DTC114YKA
	89-320-011-080		TR,2SC2001 (15W)
	89-112-965-080		TR,2SA1296 (0.75W)
	87-026-291-080		TR,DTC124XS
	87-A30-226-010		TR,2SB1655E
	87-026-462-080		TR,2SC1740 S(RS 0.3W)
	89-318-154-080		TR,2SC1815 (0.4W)
	89-109-332-380		TR,2SA933RS
	89-113-187-080		TR,2SA1318TU
	87-A30-287-040		TR,DTC114TKA (0.2W)
	89-317-403-080		TR,2SC1740S
	87-026-464-010		TR,DTC114TS
	87-026-464-080		TR,DTC114TS (0.3W)
DIODE			
	87-020-465-080		DIODE,1SS133 (110MA)
	87-027-607-080		ZENER,HZ7B3L
	87-A40-466-080		ZENER,MTZJ2.7A
	87-070-345-080		DIODE,IN4148
	87-A40-648-080		ZENER,MTZJ8.2A
	87-A40-234-080		ZENER,MTZJ5.6A
	87-017-978-080		DIODE,1N4003
	87-017-932-080		ZENER,MTZJ6.2B
	87-A40-465-010		DIODE,FR202
MAIN C.B			
C30	87-010-260-080		CAP, ELECT 47-25V
C211	87-010-805-080		CAP, S 1-16
C212	87-010-805-080		CAP, S 1-16
C215	87-016-460-080		C-CAP,S 0.22-16 B
C216	87-016-460-080		C-CAP,S 0.22-16 B
C231	87-010-213-080		C-CAP,S 0.015-50 B
C232	87-010-213-080		C-CAP,S 0.015-50 B
C233	87-A10-201-080		C-CAP,S0.33-16 KB
C234	87-A10-201-080		C-CAP,S0.33-16 KB
C235	87-016-669-080		C-CAP,S 0.1-25 K B
C236	87-016-669-080		C-CAP,S 0.1-25 K B
C237	87-010-408-080		CAP, ELECT 47-50V
C239	87-010-197-080		CAP, CHIP 0.01 DM
C240	87-010-197-080		CAP, CHIP 0.01 DM
C247	87-010-401-080		CAP, ELECT 1-50V
C248	87-010-401-080		CAP, ELECT 1-50V
C251	87-010-401-080		CAP, ELECT 1-50V
C263	87-010-198-080		CHIP CAP 0.022-25
C264	87-010-198-080		CHIP CAP 0.022-25
C265	87-010-263-080		CAP, ELECT 100-10V
C266	87-010-263-080		CAP, ELECT 100-10V
C267	87-010-112-080		CAP, ELECT 100-16V
C268	87-010-112-080		CAP, ELECT 100-16V
C271	87-010-235-080		CAP,E 470-16 SME
C272	87-010-235-080		CAP,E 470-16 SME
C278	87-010-405-080		CAP, ELECT 10-50V
C279	87-010-385-080		CAP, ELECT 220-25V
C301	87-016-658-000		CAP,E 4700-35 M SMG
C306	87-010-404-080		CAP, ELECT 4.7-50V
C307	87-010-401-080		CAP, ELECT 1-50V
C308	87-010-221-080		CAP, ELECT 470-10V
C309	87-010-197-080		CAP, CHIP 0.01 DM
C310	87-010-248-080		CAP, ELECT 220-10V
C311	87-010-374-080		CAP, ELECT 47-10V
C312	87-010-385-080		CAP, ELECT 220-25V
C316	87-010-384-080		CAP, ELECT 100-25V
C321	87-010-197-080		CAP, CHIP 0.01 DM
C322	87-010-263-080		CAP, ELECT 100-10V
C325	87-010-405-080		CAP, ELECT 10-50V
C401	87-010-403-080		CAP, ELECT 3.3-50V
C402	87-010-197-080		CAP, CHIP 0.01 DM
C403	87-010-263-080		CAP, ELECT 100-10V
C404	87-010-248-080		CAP, ELECT 220-10V
C405	87-010-197-080		CAP, CHIP 0.01 DM
C406	87-010-374-080		CAP, ELECT 47-10V
C407	87-010-178-080		CHIP CAP 1000P
C408	87-010-198-080		CAP, CHIP 0.022
C409	87-010-248-080		CAP, ELECT 220-10V
C410	87-010-263-080		CAP, ELECT 100-10V
C411	87-A11-177-080		C-CAP,S 0.15-16 K B
C412	87-010-401-080		CAP, ELECT 1-50V
C413	87-016-369-080		C-CAP,S 0.033-25 B K
C414	87-010-405-080		CAP, ELECT 10-50V
C416	87-010-545-080		CAP, ELECT 0.22-50V
C417	87-012-157-080		C-CAP,S 330P-50 CH
C418	87-010-213-080		C-CAP,S 0.015-50 B
C419	87-A11-608-080		C-CAP,S 0.33-25 K B
C420	87-016-369-080		C-CAP,S 0.033-25 B K
C421	87-A11-177-080		C-CAP,S 0.15-16 K B
C422	87-010-183-080		C-CAP,S 2700P-50 B
C423	87-010-956-080		CHIP-CAP,S 0.068-25B
C424	87-010-993-080		C-CAP,S 0.056-25 B
C425	87-010-176-080		C-CAP,S 680P-50 SL
C426	87-A11-608-080		C-CAP,S 0.33-25 K B
C428	87-010-197-080		CAP, CHIP 0.01 DM
C429	87-010-186-080		CAP,CHIP 4700P
C430	87-012-156-080		C-CAP,S 220P-50 CH
C431	87-010-545-080		CAP, ELECT 0.22-50V
C432	87-010-374-080		CAP, ELECT 47-10V
C433	87-010-401-080		CAP, ELECT 1-50V
C434	87-010-184-080		CHIP CAPACITOR 3300P(K)
C435	87-010-197-080		CAP, CHIP 0.01 DM
C436	87-010-374-080		CAP, ELECT 47-10V
C437	87-010-404-080		CAP, ELECT 4.7-50V
C438	87-016-669-080		C-CAP,S 0.1-25 K B
C439	87-010-178-080		CHIP CAP 1000P
C440	87-010-145-080		C-CAP,S 1P-50 CH
C441	87-010-197-080		CAP, CHIP 0.01 DM
C442	87-010-312-080		C-CAP,S 15P-50 CH
C445	87-012-368-080		C-CAP,S 0.1-50 F
C446	87-012-368-080		C-CAP,S 0.1-50 F
C447	87-012-368-080		C-CAP,S 0.1-50 F
C448	87-010-315-080		C-CAP,S 27P-50 CH
C450	87-012-140-080		CAP 470P
C451	87-012-156-080		C-CAP,S 220P-50 CH
C455	87-010-247-080		CAP, ELECT 100-50V
C457	87-010-312-080		C-CAP,S 15P-50 CH
C458	87-010-312-080		C-CAP,S 15P-50 CH
C459	87-010-263-080		CAP, ELECT 100-10V
C460	87-015-819-080		CAPACITOR,0.01
C461	87-010-197-080		CAP, CHIP 0.01 DM
C462	87-010-248-080		CAP, ELECT 220-10V
C463	87-010-190-080		S CHIP F 0.01
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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
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	87-010-190-080		S CHIP F 0.01
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
C801	87-010-248-080		CAP, ELECT 220-10V
C805	87-012-365-080		C-CAP,S 0.027-25VBK
C806	87-012-365-080		C-CAP,S 0.027-25VBK
C807	87-010-405-080		CAP, ELECT 10-50V
C808	87-010-405-080		CAP, ELECT 10-50V
C809	87-010-405-080		CAP, ELECT 10-50V
C810	87-010-405-080		CAP, ELECT 10-50V
C811	87-010-178-080		CHIP CAP 1000P
C812	87-010-178-080		CHIP CAP 1000P
C816	87-010-180-080		C-CER 1500P
C817	87-010-180-080		C-CER 1500P
C819	87-010-426-080		C-CAP,S 0.012-25 B
C820	87-010-426-080		C-CAP,S 0.012-25 B
C821	87-010-401-080		CAP, ELECT 1-50V
C822	87-010-401-080		CAP, ELECT 1-50V
C823	87-010-181-080		CAP,CHIP S 1800P
C824	87-010-181-080		CAP,CHIP S 1800P
C829	87-010-178-080		CHIP CAP 1000P
C830	87-010-178-080		CHIP CAP 1000P
C831	87-010-198-080		CAP, CHIP 0.022
C833	87-018-195-080		CAP, CER 1200P-16V
C834	87-010-248-080		CAP, ELECT 220-10V
C835	87-010-322-080		C-CAP,S 100P-50 CH
C836	87-010-322-080		C-CAP,S 100P-50 CH
C843	87-010-197-080		CAP, CHIP 0.01 DM
C844	87-018-124-080		CAP, CER 270P-50V
C845	87-010-178-080		CHIP CAP 1000P
C846	87-010-263-080		CAP, ELECT 100-10V
C851	87-010-186-080		CAP,CHIP 4700P
C852	87-010-178-080		CHIP CAP 1000P
C853	87-A11-145-080		CAP,TC U 0.01-50 Z F
CN201	87-099-018-010		CONN,16P
CN202	87-A60-685-010		CONN,4P H WHT EH
CN205	87-A60-109-010		CONN,2P V S2M-2W
CN301	87-099-416-010		CONN,3P EH H WHT
CN401	87-A60-424-010		CONN,16P V TOC-B
CN403	87-099-201-010		CONN,8P 6216 H
CN801	87-A60-110-010		CONN,4P V S2M-4W
CN802	87-049-469-010		CONN,4P V
CNA205	8A-CD9-626-010		CONN ASSY,2P DOOR
CNA302	8A-CDB-627-010		CONN ASSY,6P MA-TUNER
CNA402	8A-CDB-622-010		CONN ASSY,6P CD-MOTOR
CNA801	8A-CDB-626-010		CONN ASSY,4P CASS HEAD
CNA802	8A-CDB-625-010		CONN ASSY,4P CASS MECHA
FC401	8A-CDB-623-010		FF-CABLE, 16P 1.0 CD-RF

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
L401	87-003-102-080		COIL, 10UH
L404	87-003-152-080		COIL, 100UH
L801	87-007-342-010		COIL,OSC 85K BIAS
R840	87-029-124-010		RES,FUSE 2.2-1/4
SFR430	87-024-437-080		SFR100K,RH063EC
SW801	88-CT6-619-010		BACK SLIDE SW 6P2T SHORTIN
X401	8Z-CD5-633-010		VIB, CER16.93MHZ FCR16.93M2

TUNER C.B

C1	87-010-314-080		C-CAP,S 22P-50V
C2	87-010-316-080		C-CAP,S 33P-50 CH
C3	87-010-314-080		C-CAP,S 22P-50V
C4	87-010-148-080		CAP, CHIP S 75P SL
C5	87-010-378-080		CAP, ELECT 10-16V
C7	87-012-156-080		C-CAP,S 220P-50 CH
C8	87-010-197-080		CAP, CHIP 0.01 DM
C9	87-010-311-080		CAP 12P
C10	87-010-197-080		CAP, CHIP 0.01 DM
C11	87-010-152-080		C-CAP,S 8P-50 CH
C12	87-010-314-080		C-CAP,S 22P-50V
C13	87-010-322-080		C-CAP,S 100P-50 CH
C14	87-010-148-080		CAP, CHIP S 75P SL
C15	87-016-669-080		C-CAP,S 0.1-25 K B
C16	87-010-178-080		CHIP CAP 1000P
C17	87-016-669-080		C-CAP,S 0.1-25 K B
C18	87-010-198-080		CAP, CHIP 0.022
C19	87-016-669-080		C-CAP,S 0.1-25 K B
C20	87-010-400-080		CAP, ELECT 0.47-50V
C21	87-010-403-080		CAP, ELECT 3.3-50V
C22	87-010-197-080		CAP, CHIP 0.01 DM
C24	87-010-188-080		CAP,CHIP 6800P
C25	87-010-188-080		CAP,CHIP 6800P
C26	87-016-669-080		C-CAP,S 0.1-25 K B
C27	87-016-669-080		C-CAP,S 0.1-25 K B
C28	87-010-992-080		C-CAP,S 0.047-25 B
C29	87-010-992-080		C-CAP,S 0.047-25 B
C30	87-010-248-080		CAP, ELECT 220-10V
C31	87-010-379-080		CAP, ELECT 22-16V
C32	87-010-197-080		CAP, CHIP 0.01 DM
C33	87-010-197-080		CAP, CHIP 0.01 DM
C34	87-010-197-080		CAP, CHIP 0.01 DM
C35	87-010-197-080		CAP, CHIP 0.01 DM
C36	87-010-263-080		CAP, ELECT 100-10V
C37	87-010-197-080		CAP, CHIP 0.01 DM
C38	87-010-197-080		CAP, CHIP 0.01 DM
C51	87-010-197-080		CAP, CHIP 0.01 DM
C56	87-010-152-080		C-CAP,S 8P-50 CH
CF1	87-A90-128-010		FLTR,AM IF CFAL-455
CF2	82-785-747-010		CF MS2 GHY R
CF3	82-785-747-010		CF MS2 GHY R
CN2	87-099-194-010		CONN,6P 6216V
D3	87-A40-916-040		C-VARI-CAP,HVC202A
L2	87-A50-560-010		COIL,FM BPF(ACD)
L3	8A-CD9-660-010		BAR-ANT,MW 2B-ACD(COI)
L4	87-A50-562-010		COIL,FM RF EX(ACD)
L5	87-A50-564-010		COIL,FM OSC EX(ACD)
L6	87-A50-337-010		COIL,AM OSC (TOKO)
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	87-005-849-080		COIL,10UH(CECS)
SW1	87-A91-548-010		SW,SL-2-3 SK23E01G06
VC1	87-A91-635-010		TUN-CAP,20P-140P E-ACD(MITSUMI

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C604	87-010-317-010		CHIP CAP,S 39P CH
C605	87-010-263-080		CAP, ELECT 100-10V
C606	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C607	87-015-819-080		CAPACITOR,0.01
C608	87-010-405-080		CAP, ELECT 10-50V
C609	87-010-400-080		CAP, ELECT 0.47-50V
C611	87-010-248-080		CAP, ELECT 220-10V
C613	87-012-368-080		C-CAP,S 0.1-50 F
C614	87-010-312-080		C-CAP,S 15P-50 CH
CN601	87-099-033-010		16P 6216 H
CN602	87-099-201-010		CONN,8P 6216 H
CNA604	8A-CDB-616-010		CONN ASSY,6P KEY FUNCT
CNA606	8A-CDB-617-010		CONN ASSY,2P KEY VOL
FC601	8A-CDB-618-010		FF-CABLE, 16P 1.25 FR-MAIN
FC602	8A-CDB-619-010		FF-CABLE, 8P 1.25 CD-FR
L601	87-003-102-080		COIL, 10UH
LED602	88-CD6-630-010		LED,934ID RED
LED608	88-CD6-630-010		LED,934ID RED
LED611	87-CD8-616-010		LED,SA36-11 HWA-11.0
S601	8Z-CT6-636-010		SW,TACT EVQJAC04M
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
X601	87-030-273-010		VIB,XTAL 32.768K5PPM
X602	87-030-376-080		VIB,CER CSA5.76MG200

KEY FUNCT C.B

CN605	87-099-417-010		CONN 6P EH H WHT
LED606	88-CD6-630-010		LED,934ID RED
LED607	88-CD6-630-010		LED,934ID RED
LED610	88-CD6-631-010		LED,934GD GRN
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
S611	8Z-CT6-636-010		SW,TACT EVQJAC04M

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION

VOL C.B

CN607	84-722-632-010		CONN,2P H
S614	8Z-CT6-636-010		SW,TACT EVQJAC04M
S615	8Z-CT6-636-010		SW,TACT EVQJAC04M

PHONE C.B

CN204	87-049-469-010		CONN,4P V
CNA203	8A-CDB-624-010		CONN ASSY,3P H.P
CNA204	8A-CDB-633-010		CONN ASSY,4P SPKR
J251	87-009-216-010		JACK, DIA 3.5

BATT A C.B

C901	87-018-205-080		CAP, CERA-SOL 0.022
C902	87-018-205-080		CAP, CERA-SOL 0.022
C903	87-018-205-080		CAP, CERA-SOL 0.022
C904	87-018-205-080		CAP, CERA-SOL 0.022
CNA901	8A-CDB-621-010		CONN ASSY,3P POWER
⚠ PR901	87-A90-092-080		PROTECTOR,2.5A 491
⚠ PT901	8A-CDB-651-010		PT,H 2.5W EI48X23

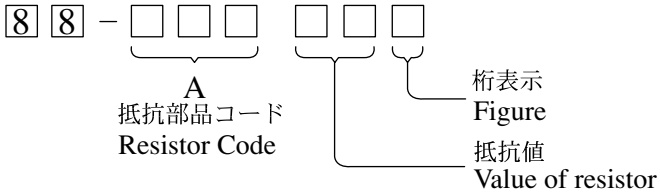
BATT B C.B

CD MOTOR C.B

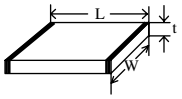
M2	9X-262-576-910		MOTOR GEAR ASSY
PIN3	91-564-722-110		CONNECTOR 6P
SW1	91-572-085-120		LEAF SW

Oチップ抵抗部品コード／CHIP RESISTOR PART CODE

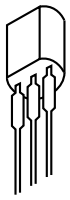
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード Resistor Code ：A
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

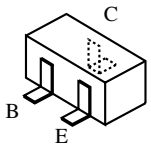
TRANSISTOR ILLUSTRATION



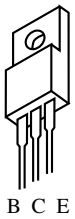
2SA1296
2SC1815

2SC2001
2SA1318TU

2SC1740S/SR/SRS
2SA933S/RS
DTC124XS
DTC114TS



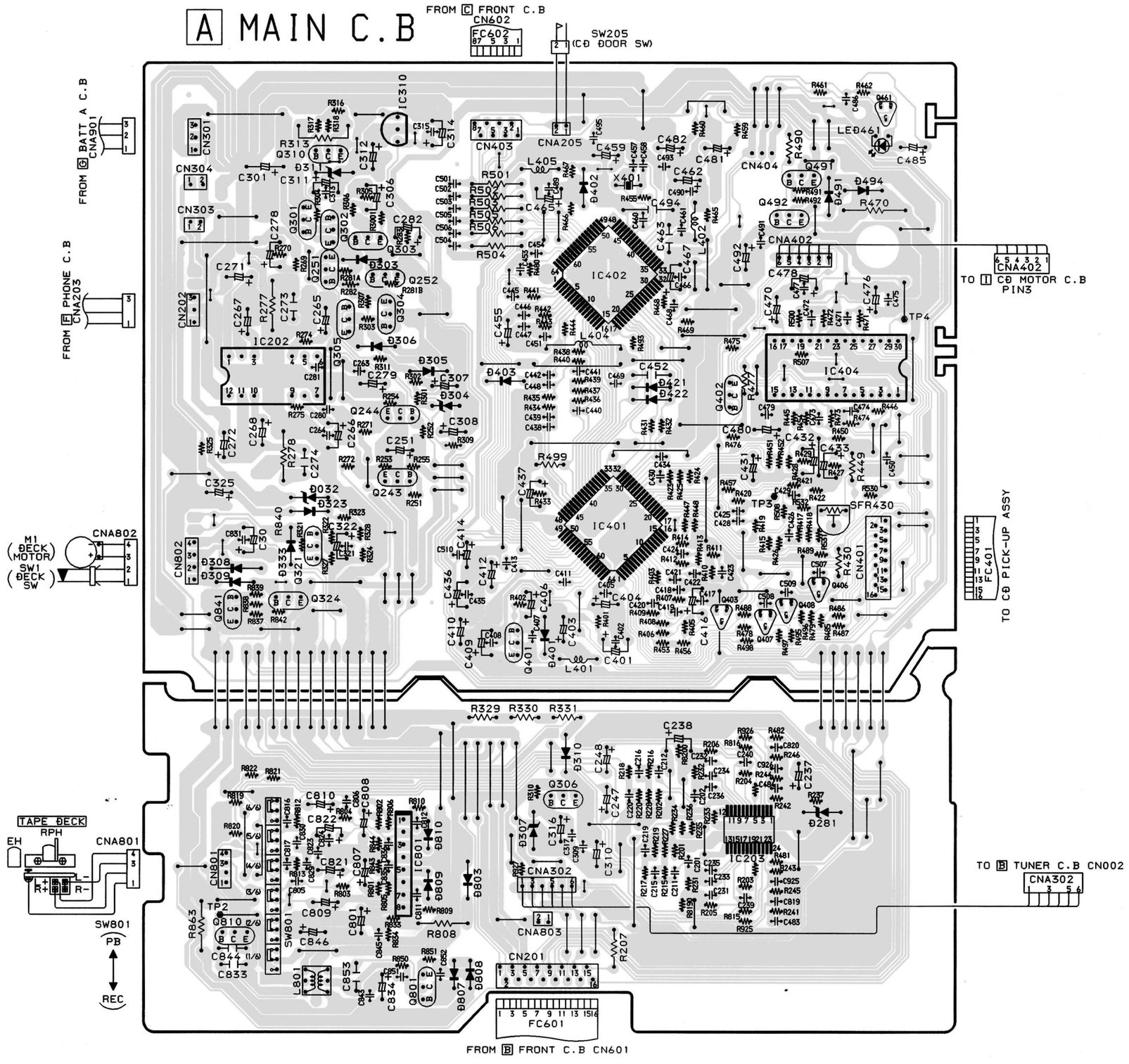
DTC114YKA
DTC114TKA
2SC2714

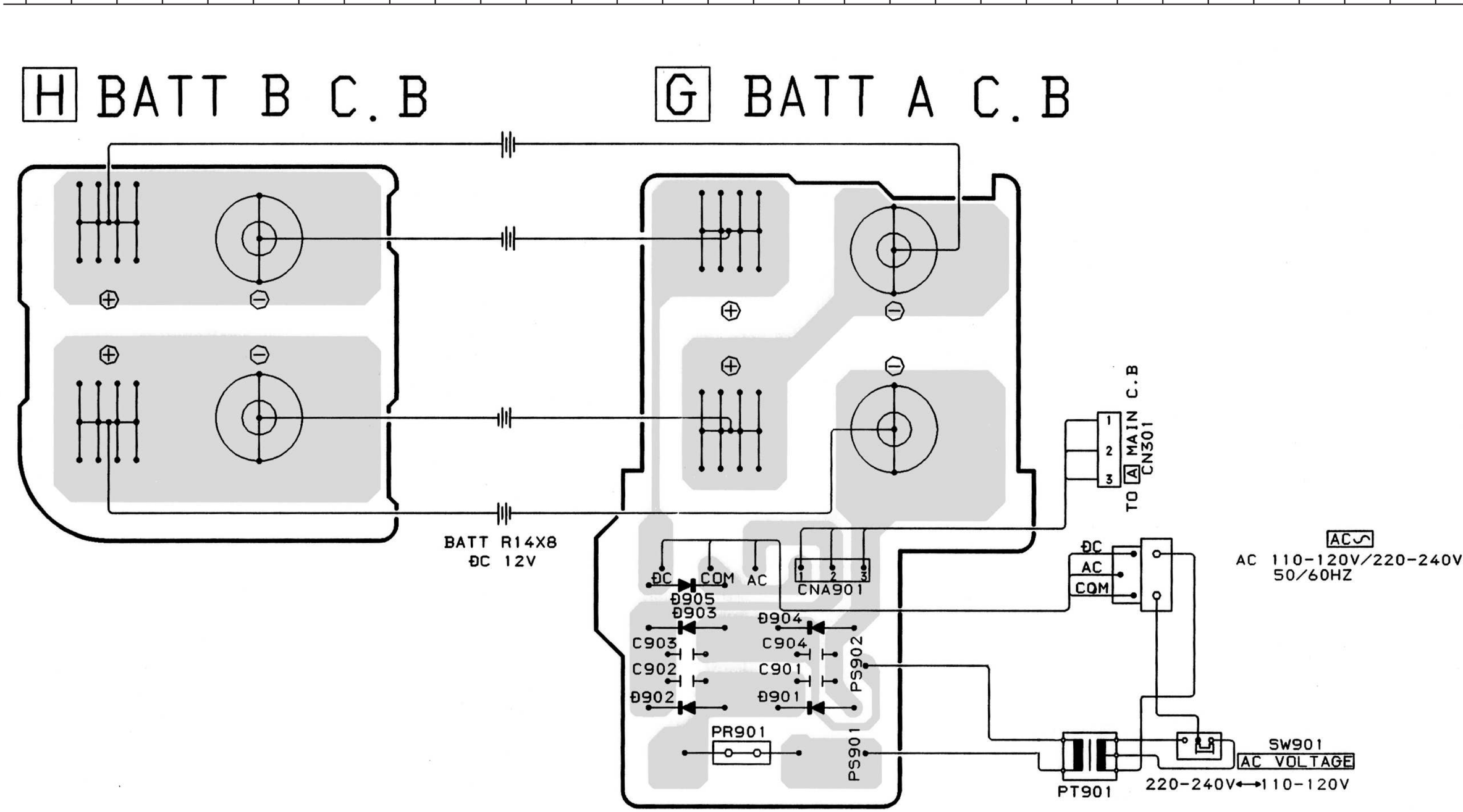


2SB1655E

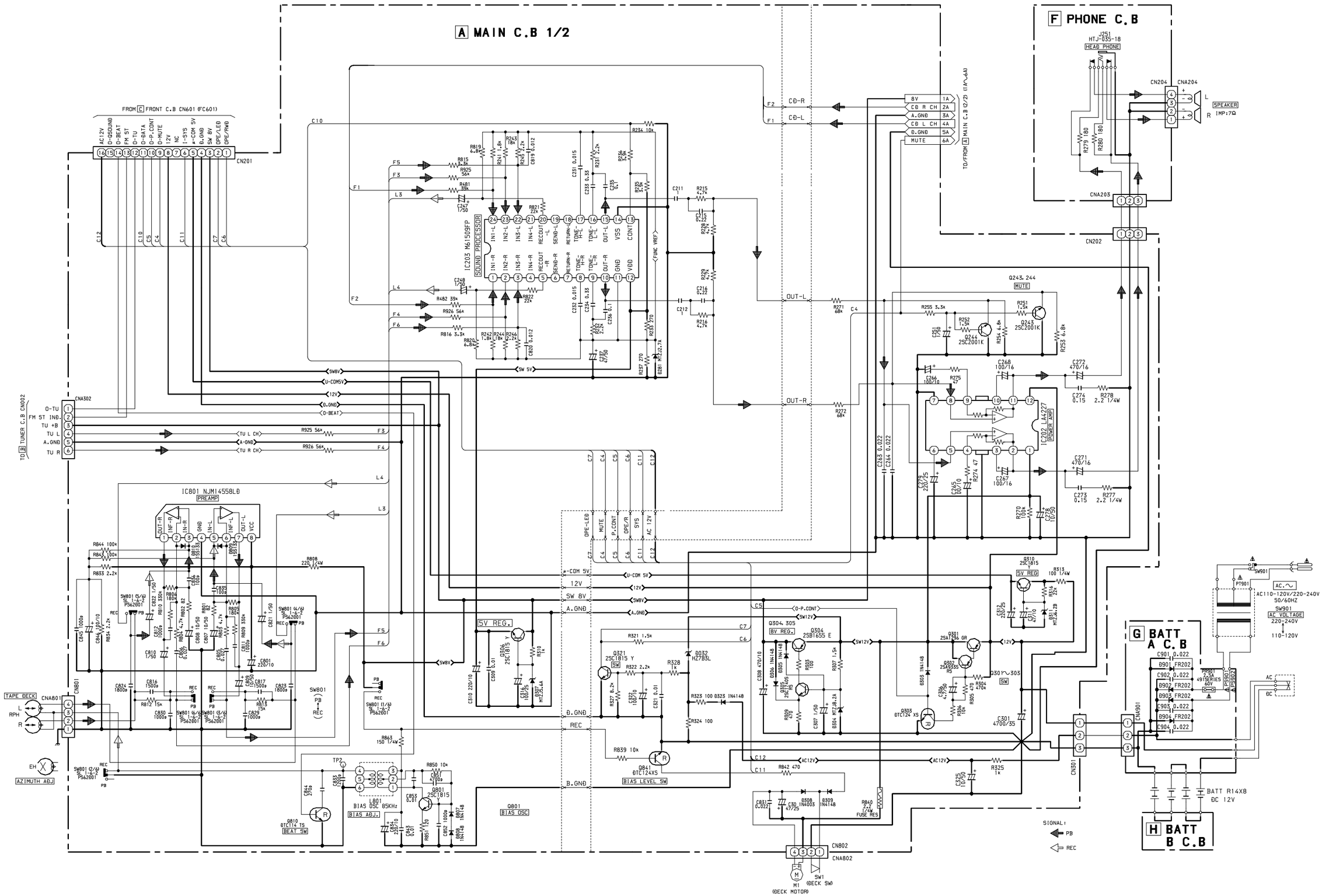
32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

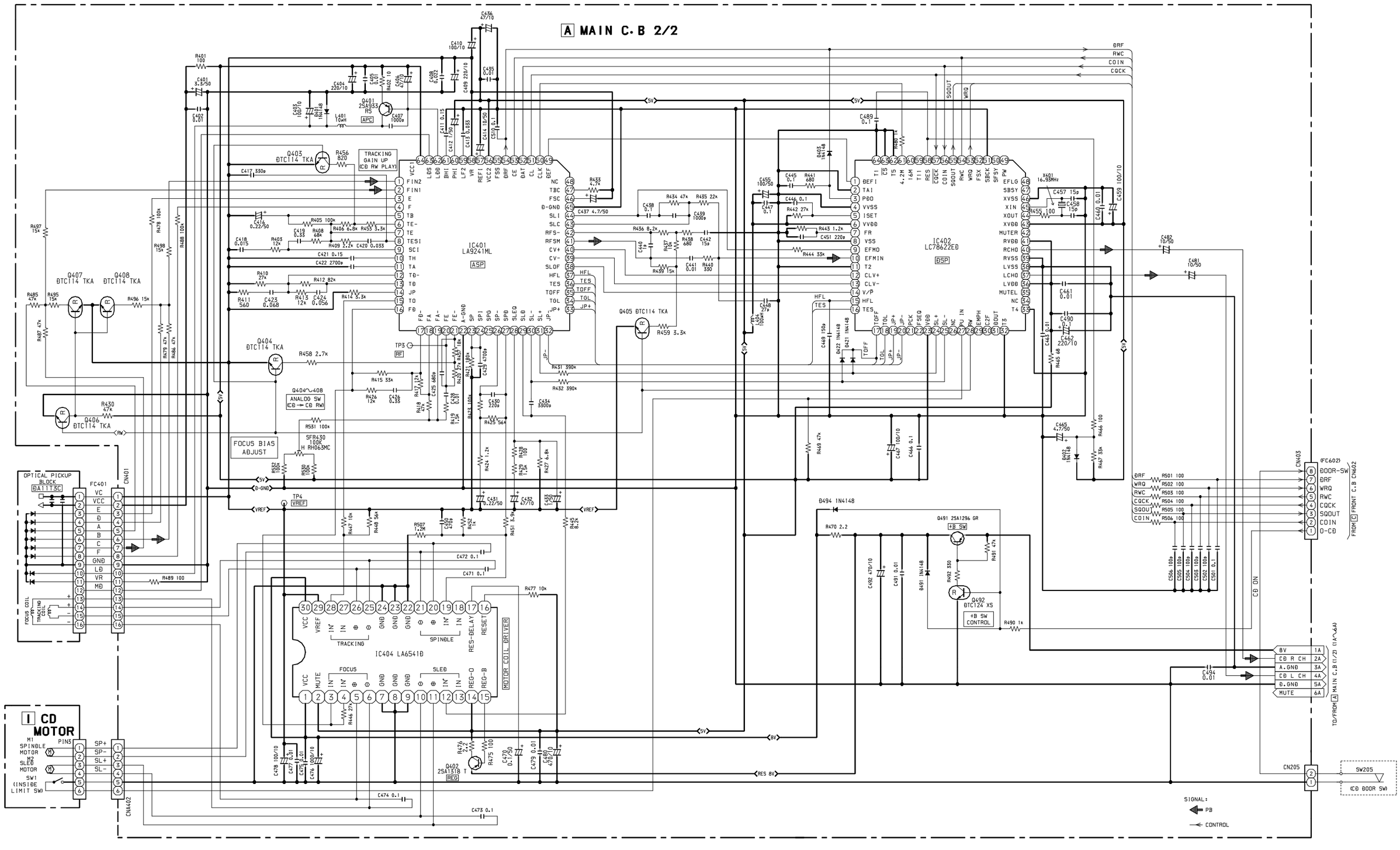



H BATT B C.B
G BATT A C.B
BATT R14X8
ĐC 12V
TO A MAIN C.B CN301
1
2
3
ĐC
COM
AC
CNA901
Đ905
Đ903
Đ904
C903
C904
C902
C901
Đ902
Đ901
PS902
PS901
PR901
ĐC
AC
COM
AC∿
AC 110-120V/220-240V
50/60HZ
SW901
AC VOLTAGE
220-240V↔110-120V
PT901

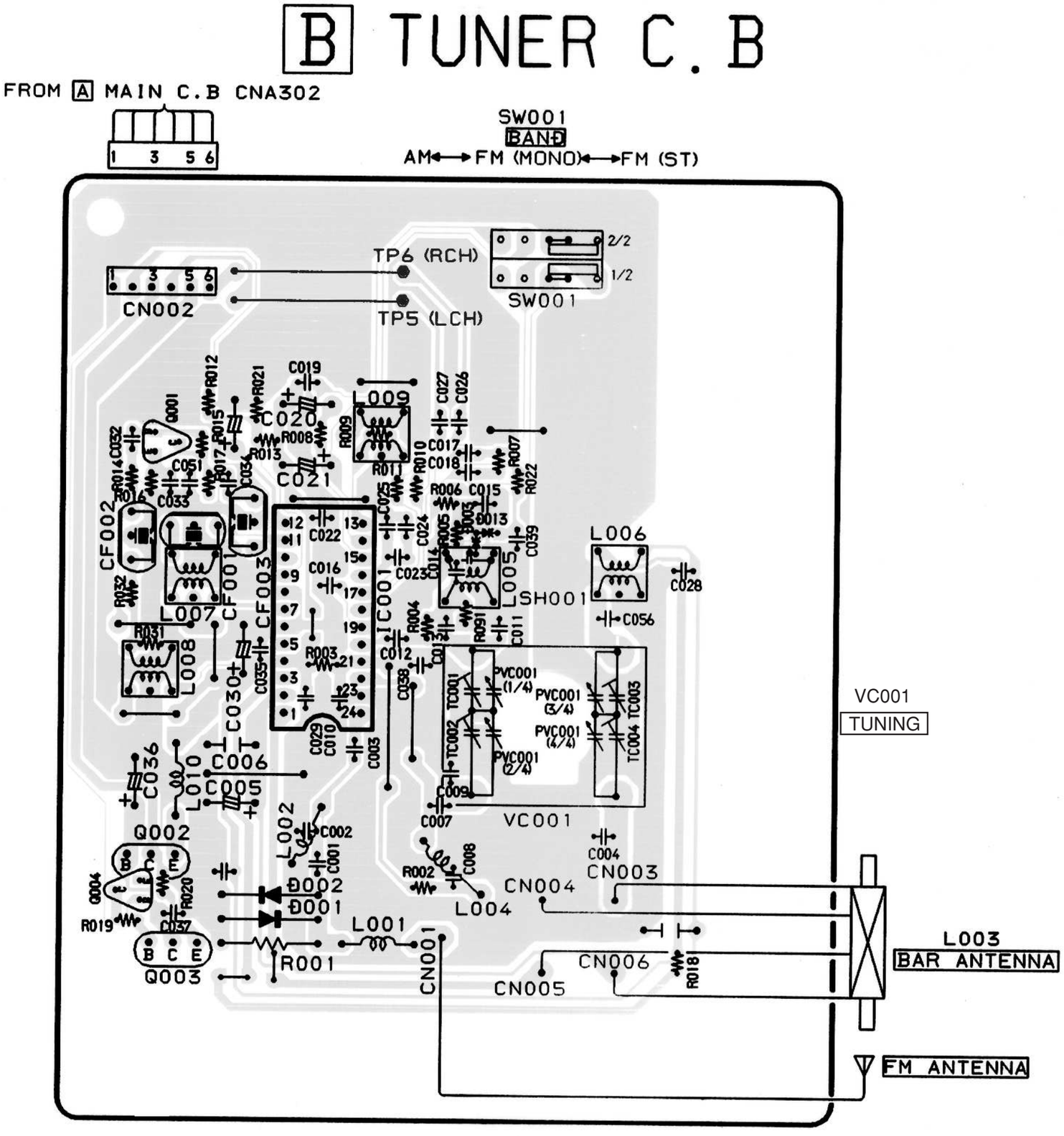
SCHEMATIC DIAGRAM – 1 (MAIN 1/2 / BATT A / BATT B / PHONE)

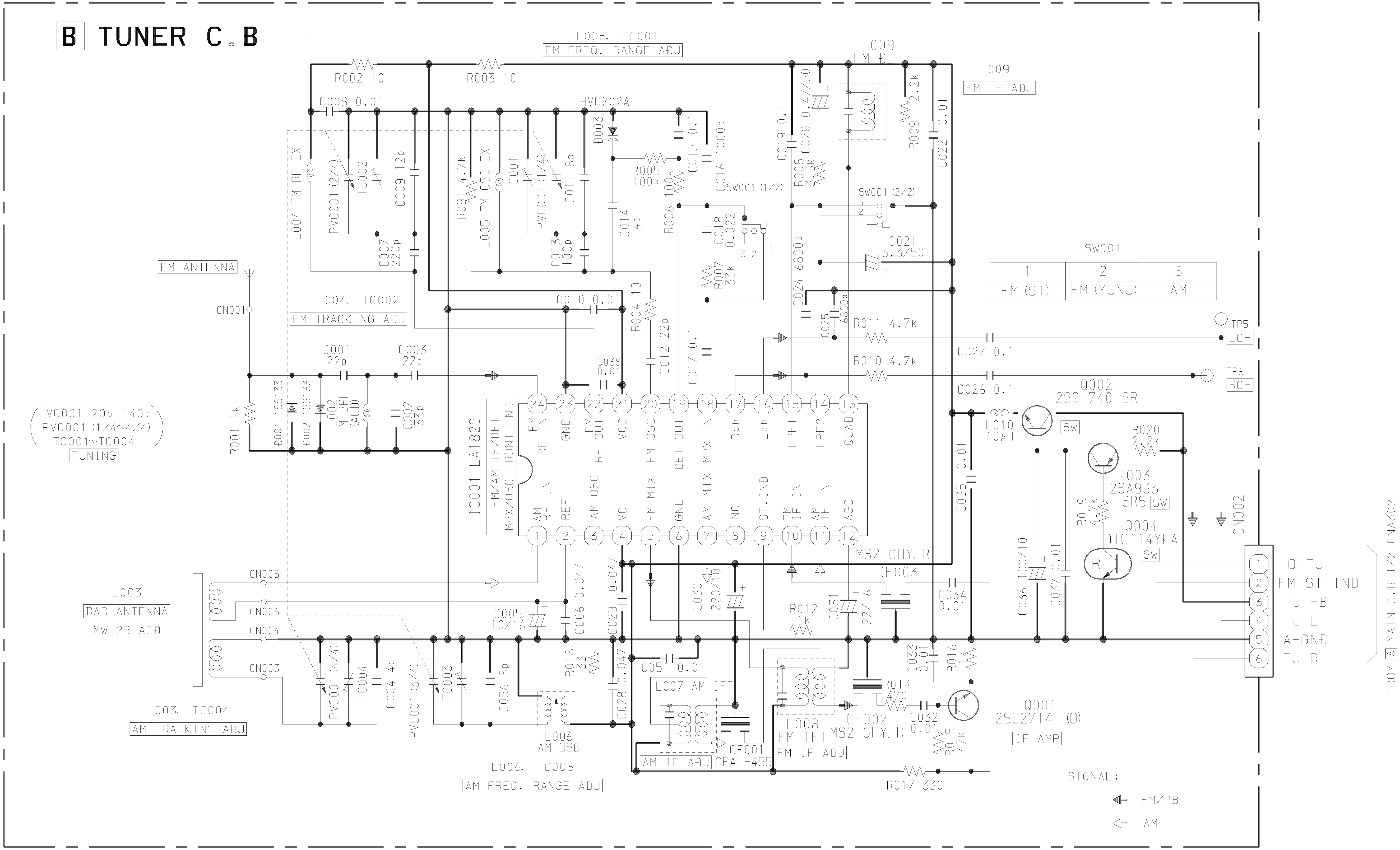


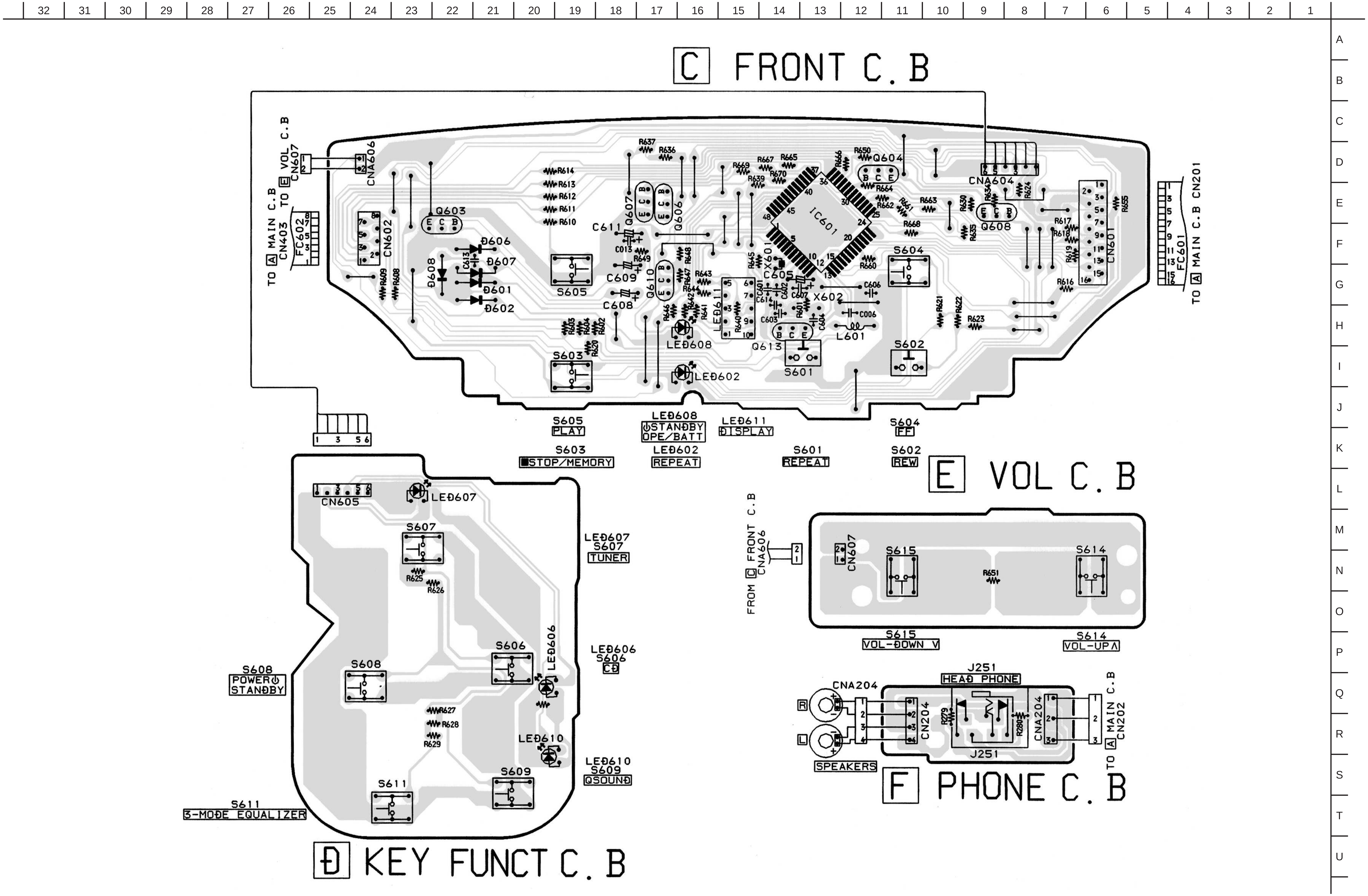
SCHEMATIC DIAGRAM – 2 (MAIN 2/2 / CD MOTOR)



B TUNER C.B

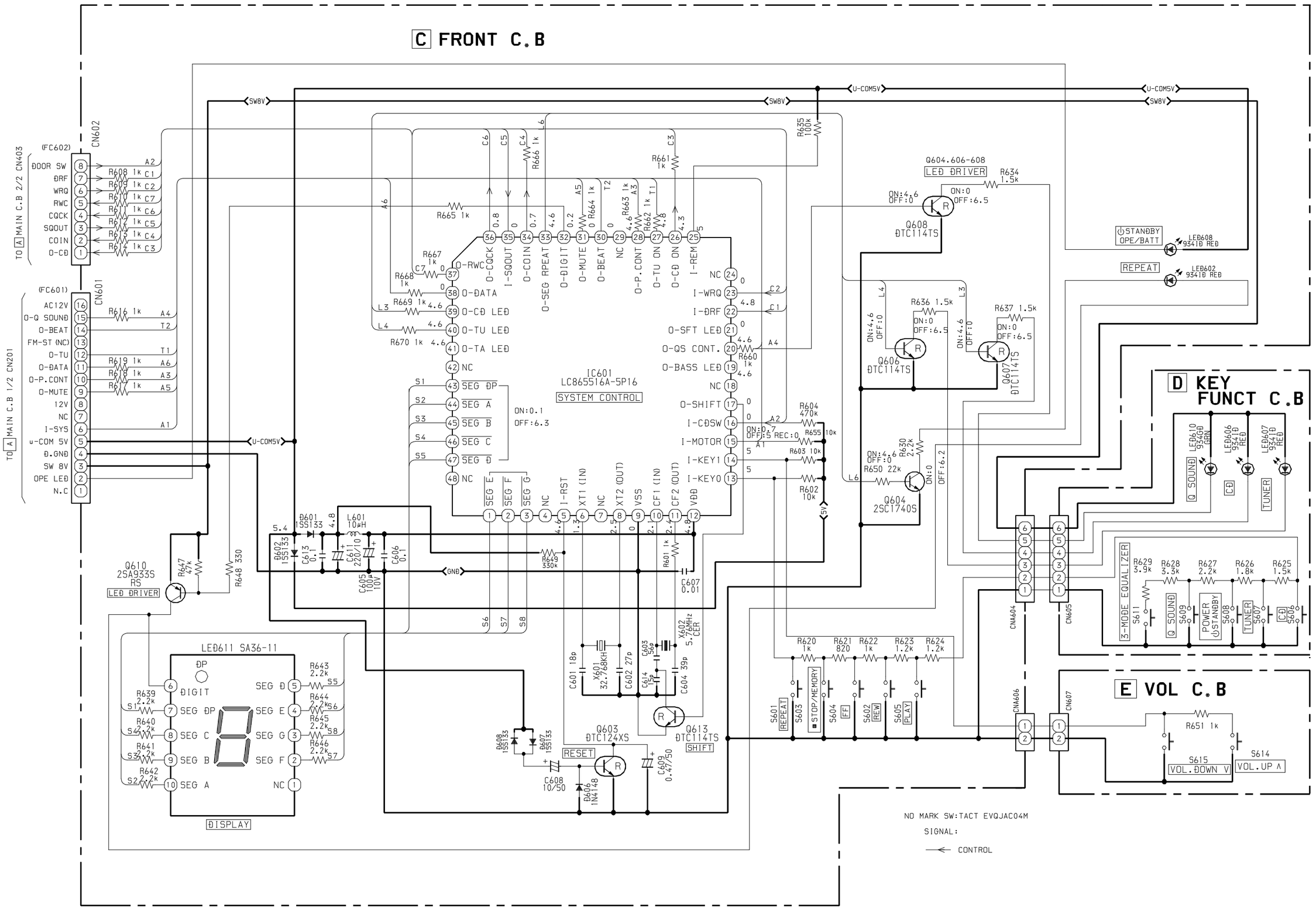

FROM A MAIN C.B CNA302
1 3 5 6
SW001
BAND
AM ⟷ FM (MONO) ⟷ FM (ST)
CN002
TP6 (RCH)
TP5 (LCH)
2/2
1/2
SW001
VC001
TUNING
L003
BAR ANTENNA
FM ANTENNA
CN003
CN004
CN005
CN006
L004
L005
L006
L007
L008
LSH001
VC001
Q001
Q002
Q003
Q004
CF001
CF002
CF003
L001
L002
L010
Đ001
Đ002
R001
R002
R003
R004
R005
R006
R007
R008
R009
R010
R011
R012
R013
R014
R015
R016
R017
R018
R019
R020
R021
R022
R031
R032
C001
C002
C003
C004
C005
C006
C007
C008
C009
C010
C011
C012
C013
C014
C015
C016
C017
C018
C019
C020
C021
C022
C023
C024
C026
C027
C028
C029
C030
C032
C033
C034
C035
C036
C037
C038
C039
C051
C056
PVC001 (1/4)
PVC001 (3/4)
PVC001 (4/4)
PVC001 (2/4)
TC001
TC002
TC003
TC004


B TUNER C.B
L005, TC001
FM FREQ. RANGE ADJ
L009
FM DET
L009
FM IF ADJ
HVC202A
FM ANTENNA
L004, TC002
FM TRACKING ADJ
VC001 20p-140p
PVC001 (1/4~4/4)
TC001~TC004
TUNING
IC001 LA1828
FM/AM IF/DET
MPX/OSC FRONT END
SW001
1 FM (ST)
2 FM (MONO)
3 AM
Q002
2SC1740 SR
Q003
2SA933 SRS
Q004
DTC114YKA
CN002
O-TU
FM ST IND
TU +B
TU L
A-GND
TU R
FROM A MAIN C.B 1/2 CNA302
L003
BAR ANTENNA
MW 2B-ACD
L003, TC004
AM TRACKING ADJ
L006, TC003
AM FREQ. RANGE ADJ
L007 AM IFT
AM IF ADJ
CF001 CFAL-455
L008 FM IFT
FM IF ADJ
CF002 MS2 GHY, R
CF003 MS2 GHY, R
Q001
2SC2714 (O)
IF AMP
SIGNAL:
FM/PB
AM

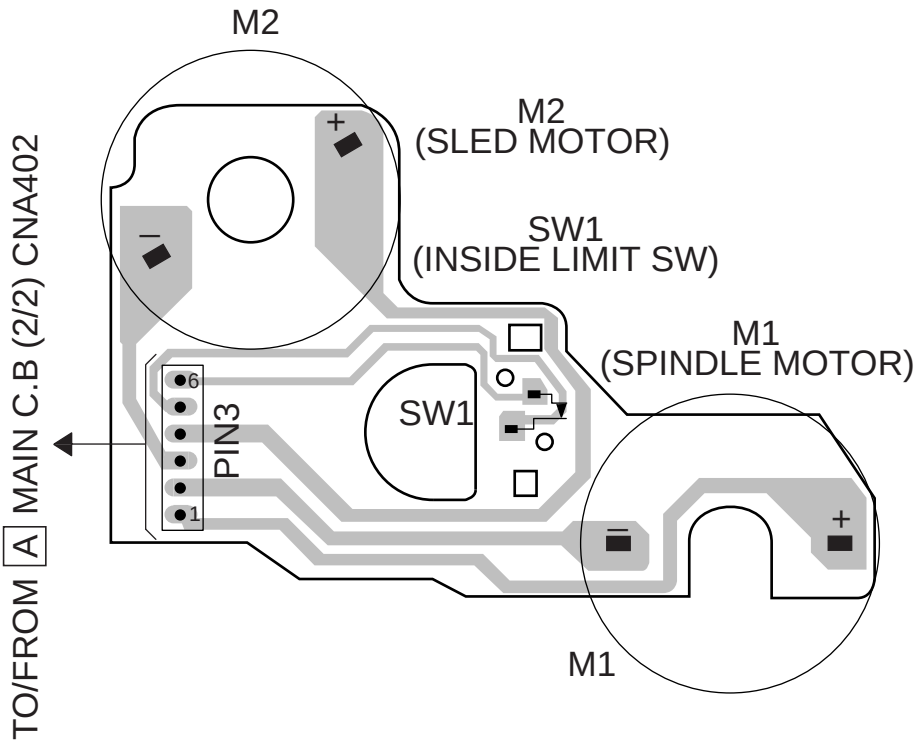


C FRONT C.B
TO A MAIN C.B CN403
TO E VOL C.B CN607
TO A MAIN C.B CN201
S605 PLAY
LED608 STANDBY OPE/BATT
LED611 DISPLAY
S604 FF
S603 STOP/MEMORY
LED602 REPEAT
S601 REPEAT
S602 REW
E VOL C.B
FROM C FRONT C.B CNA606
S615 VOL-DOWN V
S614 VOL-UP Λ
D KEY FUNCT C.B
LED607 S607 TUNER
LED606 S606 CD
LED610 S609 SOUND
S608 POWER STANDBY
S611 3-MODE EQUALIZER
F PHONE C.B
J251 HEAD PHONE
SPEAKERS
TO A MAIN C.B CN202

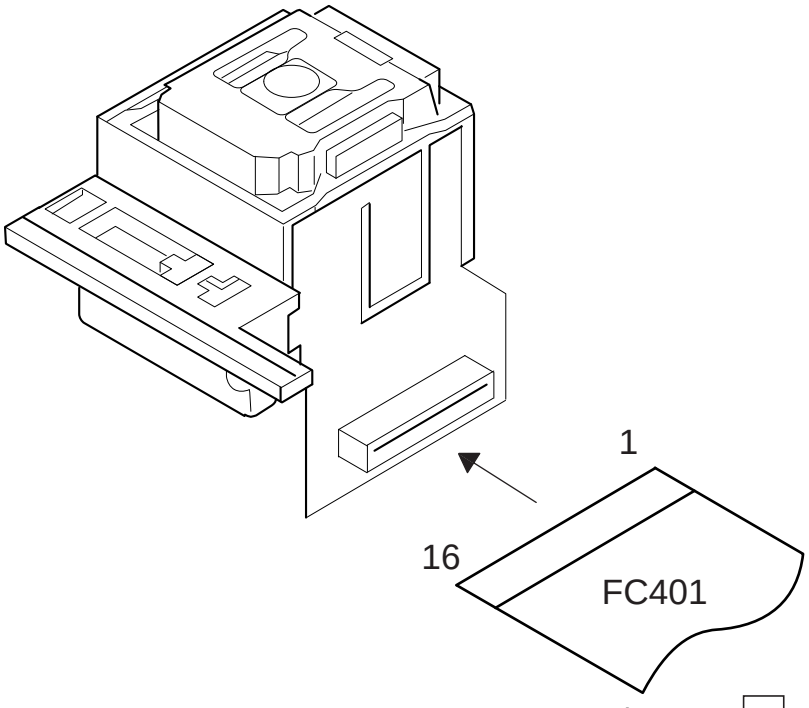
SCHEMATIC DIAGRAM – 4 (FRONT / KEY FUNCT / VOL)



I CD MOTOR C.B

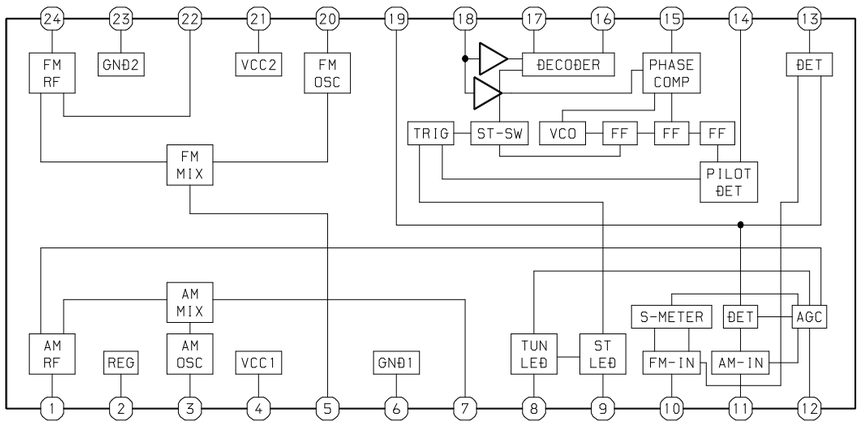


PICK UP ASSY
SF-P101NR

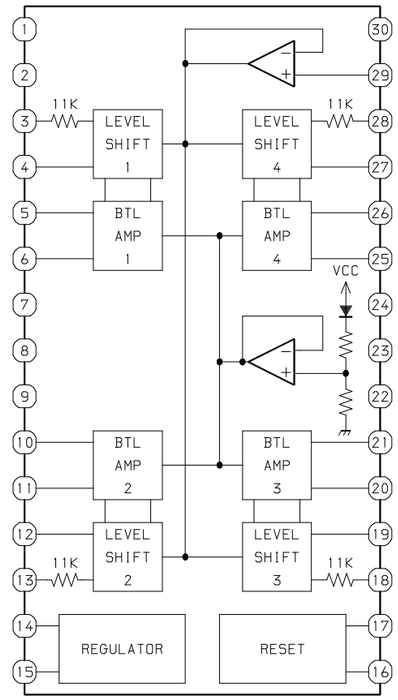


IC BLOCK DIAGRAM

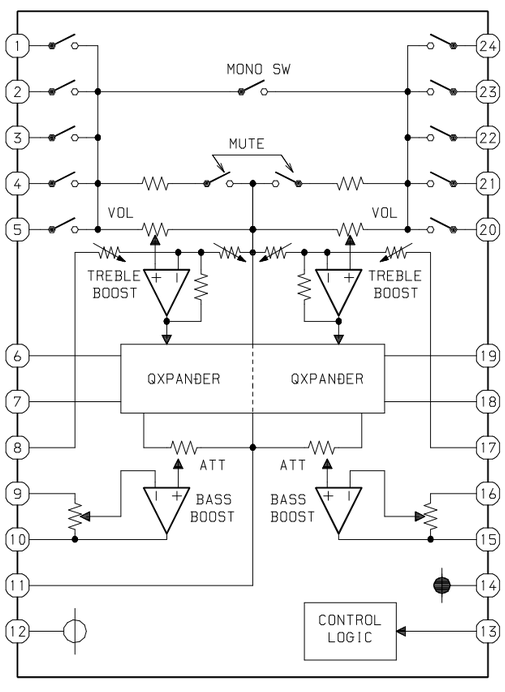
IC, LA1828



IC, LA6541D



IC, M61509FP



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	ISET	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	T2	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/$\overline{P}$	O	Output to monitor the automatic switching between the rough servo control and phase servo control. "H" :Rough servo, "L": Phase servo.
15	HFL	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.4.3218MHz when the phase is locked.
22	FSEQ	O	Sync signal detection output. Goes "H" when the sync signal detected from the EFM signal matches the sync signal generated internally. (Not used)
23	VDD	–	Power supply of digital circuits.
24	SL+	I/O	General purpose input/output 1. Controlled by serial data command issued by the microprocessor.
25	SL–	I/O	General purpose input/output 2. Controlled by serial data command issued by the microprocessor.
26	NC	–	Not connected.
27	PUIN	I/O	CD pickup inside limit switch.
28	RW	I/O	Serial data command sled signal output terminal from microprocessor.
29	EMPH	O	Deemphasis monitor. "H": when playing a deemphasis disc. (Not used)
30	C2F	O	C2 flag output. (Not used)
31	DOUT	O	Outputs a digital OUT signal. (EIAJ format) (Not used)
32	T3	I	Test input. A pull-down resistor is incorporated. Be sure to connect this to 0V.
33	T4		
34	N.C	–	Not connected.
35	MUTEL	O	Lch 1-bit DAC/Lch muting output. (Not used)

Pin No.	Pin Name	I/O	Description
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.
40	RCHO	O	Rch output.
41	RVDD	–	Rch power supply.
42	MUTER	O	Rch muting output. (Not used)
43	XVDD	–	Power supply of crystal oscillator.
44	XOUT	O	For the connection of a 16.9344 MHz crystal oscillator.
45	XIN	I	
46	XVSS	–	Ground of crystal oscillator. Normally, 0V.
47	SBSY	O	Subcode block sync signal output. (Not used)
48	EFLG	O	C1,C2,single,duplex correction monitor. (Not used)
49	PW	O	Output of subcodes P,Q,R,S,T,U and W. (Not used)
50	SFSY	O	Subcode frame sync signal output. Falls when the subcode is set to the standby state.(No used)
51	SBCK	I	Subcode read-out clock input. Schmitt trigger input.("L" is applied when not used.)
52	FSX	O	7.35 kHz sync signal output obtained by dividing the oscillator frequency. (Not used)
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	$\overline{\text{CQCK}}$	I	Command input retrieval clock or subcode retrieval clock input from SQOUT. Schmitt trigger input.
58	RES	I	LC78622 reset input.
59	T11	O	Test output. Set to open (normally, "L" output.) (Not used)
60	16M	O	16.9344 MHz output. (Not used)
61	4.2M	O	4.236 MHz output.
62	T5	I	Test input. A pull-down resistor is incorporated. Be sure to connect to 0 V.
63	$\overline{\text{CS}}$	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 whichs sets the gain of the FE signal between this pin and the TE pin.
22	AGND	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	DGND	–	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).
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-5P16

Pin No.	Pin Name	I/O	Description
1	$\overline{\text{SEG E}}$	O	SEG E control.
2	$\overline{\text{SEG F}}$	O	SEG F control.
3	$\overline{\text{SEG G}}$	O	SEG G control.
4	NC	—	Not connected.
5	I-RST	I	Microprocessor reset input.
6	XT1 (IN)	I	Connected to an external 32.768 kHz crystal oscillator.
7	NC	—	Not connected.
8	XT2 (OUT)	O	Connected to an external 32.768 kHz crystal oscillator.
9	VSS	—	GND.
10	CF1 (IN)	I	Connected to an external 5.76 MHz ceramic filter.
11	CF2 (OUT)	O	Connected to an external 5.76 MHz ceramic filter.
12	VDD	—	Microprocessor power supply (+5 V).
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 used)
20	O-QS LED	O	Q sound LED ON/OFF control output.
21	O-SFT LED	—	Not used.
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	I	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 sw control output.
31	O-MUTE	O	Main mute output.
32	O-DIGIT	O	7-segment LED power supply control output.
33	O-SEG REPEAT	O	REPEAT LED ON/OFF control output.
34	O-COIN	O	CD command output.
35	I-SQOUT	I	CD subcode Q input.
36	O-CQCK	O	CD command/CLK for subcode.
37	O-RWC	O	CD read/write control output.
38	O-DATA	O	Data output to M61509FP.
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 used)

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.

ADJUSTMENT <TUNER / DECK / CD>

< RADIO SECTION >

1. AM Frequency Range Adjustment
   - Test Point: TP5 (LCH), TP6 (RCH)
   - Adjustment location: L006, TC003
   - Method:

   L006 ..... 517kHz
   TC003 ..... 1750kHz

2. AM Tracking Adjustment
   - Test Point: TP5 (LCH), TP6 (RCH)
   - Adjustment location: L003, TC004
   - Method:

   L003 ..... 600kHz
   TC004 ..... 1400kHz

3. AM IF Adjustment
   - Test Point: TP5 (LCH), TP6 (RCH)
   - Adjustment location: L007
   - Method:

   L007 ..... 455kHz

4. FM Frequency Range Adjustment
   - Test Point: TP5 (LCH), TP6 (RCH)
   - Adjustment location: L005, TC001
   - Method:

   L005 ..... 87MHz
   TC001 ..... 109MHz

5. FM Tracking Adjustment
   - Test Point: TP5 (LCH), TP6 (RCH)
   - Adjustment location: L004, TC002
   - Method:

   L004 ..... 88MHz
   TC002 ..... 108MHz

6. FM IF Adjustment
   - Test Point: TP5 (LCH), TP6 (RCH)
   - Adjustment location: L008, L009
   - Method:

   L008, L009 ..... 10.7MHz

< TAPE RECORDER SECTION >

1. Bias Adjustment
   - Test tape: TTA-630
   - Test Point: TP2
   - Adjustment location: L801
   - Method:

   L801 ..... 85kHz±2kHz

2. Azimuth Adjustment

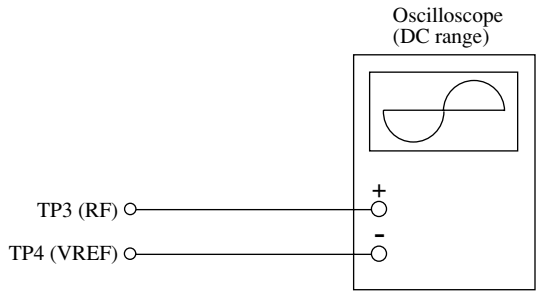
   Condition:
   - Test tape: TTA-320
   - Test point: PHONE JACK
   - Adjustment location: Azimuth adjustment screw

   Method: Play back the test tape and adjust the screw so that the output is maximum.

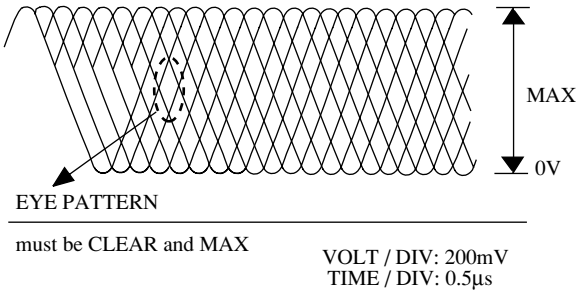
< CD SECTION >

1. Focus Bias Adjustment

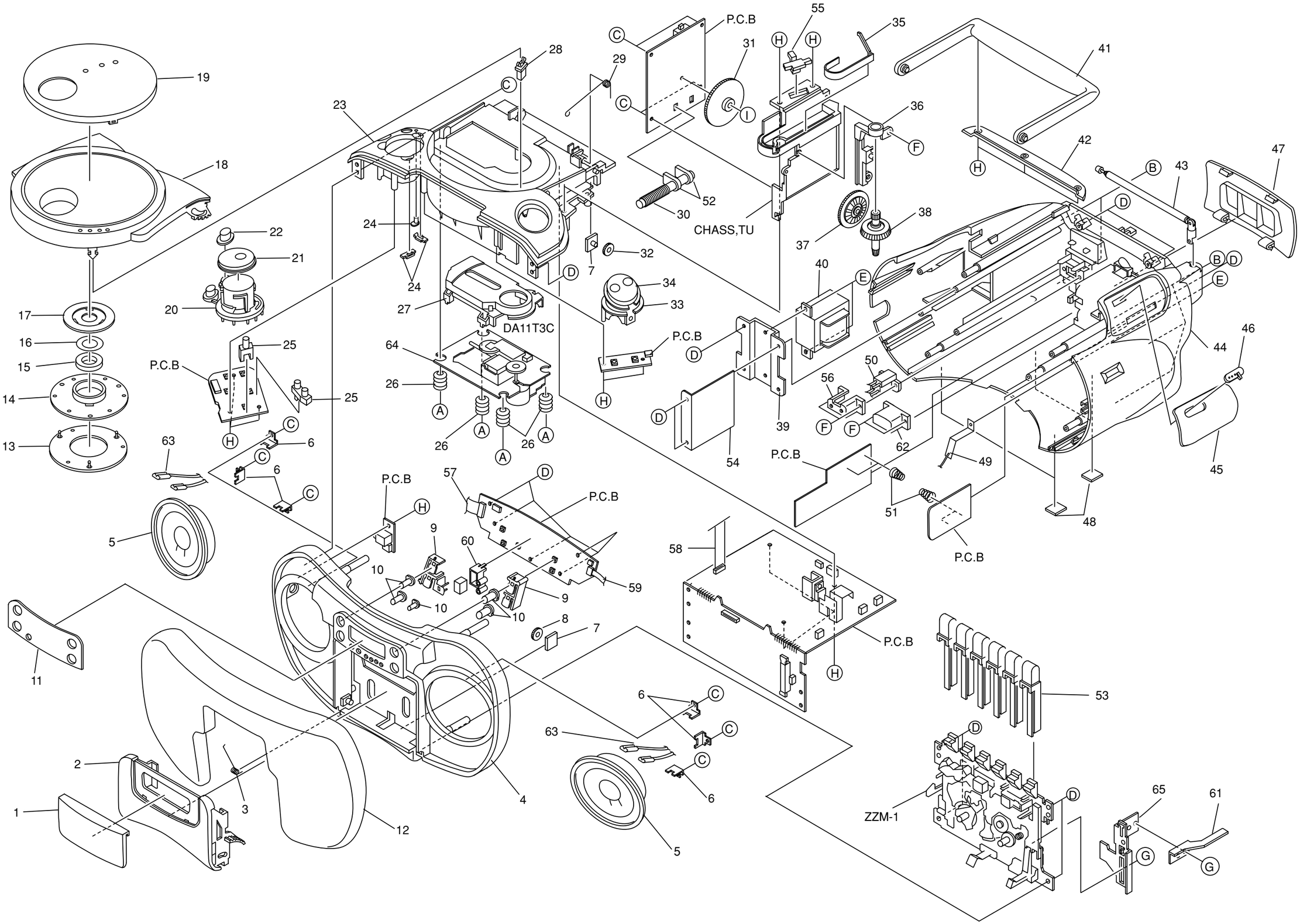
   Make the focus bias adjustment when replacing and repairing the optical block.



1) Connect an oscilloscope to the test point TP3 (RF) and TP4 (VREF).
2) Turn on the power switch.
3) Insert test disc TCD-782 (YEDS-18) and play back the second composition.
4) Adjust SFR430 so that RF signal of the test point TP3 (RF) is MAX and CLEAREST.



MECHANICAL EXPLODED VIEW 1 / 1



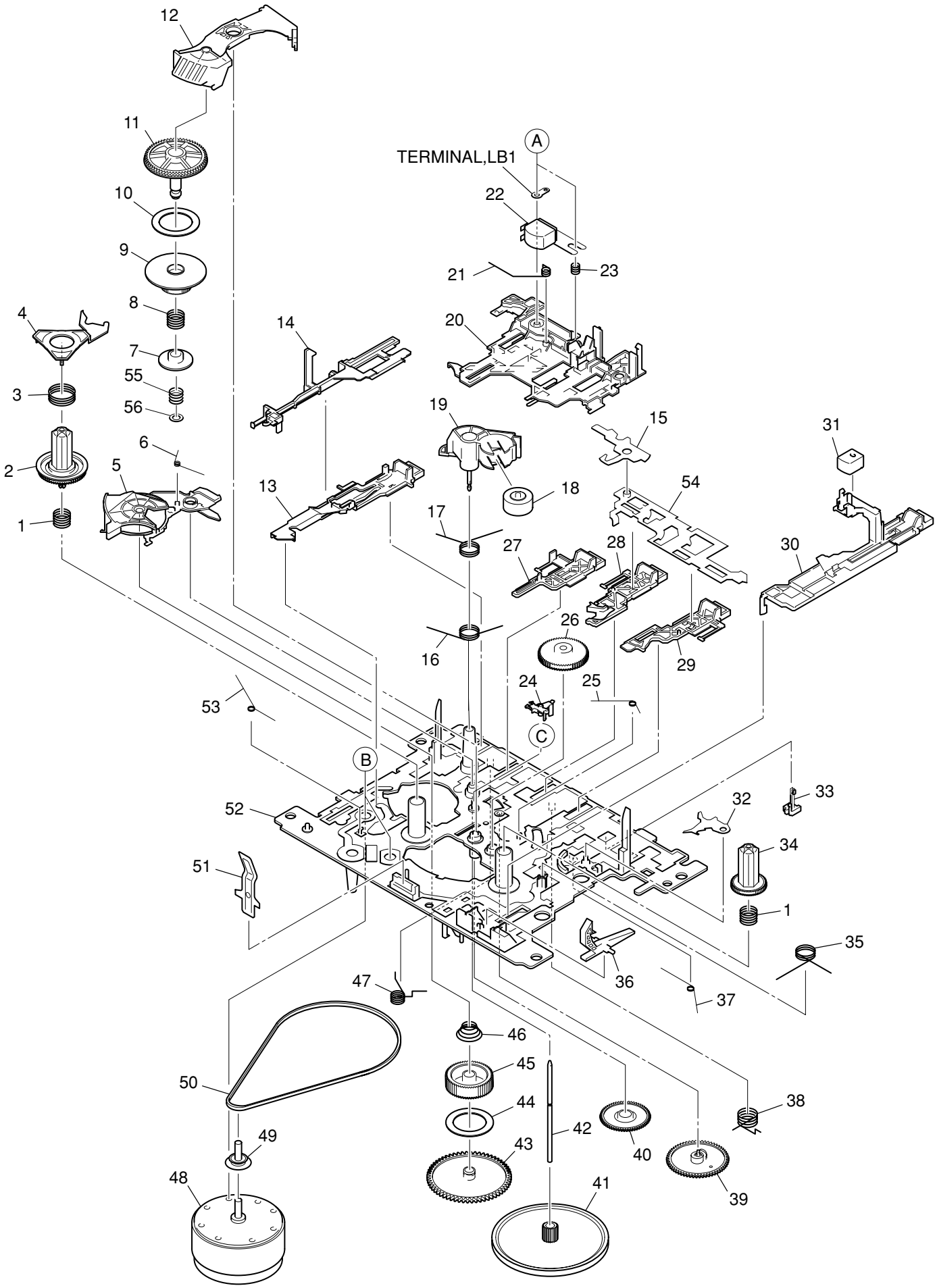
MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CDB-006-010		WINDOW,CASS<[S]319LH>
1	8A-CDB-052-010		WINDOW,CASS <OR><[D]HA>
2	8A-CDB-008-010		BOX,CASS<[S]319LH>
2	8A-CDB-054-010		BOX,CASS <OR><[D]HA>
3	8A-CDB-204-010		SPR-T,CASS
4	8A-CDB-001-010		CABI,FR
5	88-CD8-622-010		SPKR,F 77 7OHM 3W
6	8Z-CDB-208-010		HLDR,SPKR
7	8A-CDB-205-010		PLATE,OIL DUMP
8	87-063-164-010		OIL-DMPR 80
9	8A-CDB-206-010		BASE,CD
10	8A-CDB-016-010		BTN,CD
11	8A-CDB-050-010		WINDOW,DISP <OR><[D]HA>
11	8A-CDB-004-010		WINDOW,DISP<[S]319LH>
12	8A-CDB-058-110		GRILLE,SPKR <OR><[D]HA>
12	8A-CDB-023-110		GRILLE,SPKR<[S]319LH>
13	8Z-CT6-213-010		BASE,CHUCK
14	8Z-CT6-214-010		RING,CHUCK
15	87-036-368-010		MAGNET
16	86-CT9-222-010		PLATE,MAGNET
17	86-CT9-217-010		HLDR,CHUCK A(S)
18	8A-CDB-009-210		BOX,CD<[S]319LH>
18	8A-CDB-055-110		BOX,CD <OR><[D]HA>
19	8A-CDB-005-010		WINDOW,CD<[S]319LH>
19	8A-CDB-051-010		WINDOW,CD <OR><[D]HA>
20	8A-CDB-213-010		BASE,FUNC
21	8A-CDB-013-010		BTN,FUNC<[S]319LH>
21	8A-CDB-057-010		BTN,FUNC <OR><[D]HA>
22	8A-CDB-014-010		BTN,QSOUND
23	8A-CDB-003-010		CHAS,CD
24	8A-CDB-021-010		LENS,FUNC
25	8A-CDB-203-010		HLDR,LED FUNC
26	88-CH6-220-010		CUSHION,CD A
27	8Z-CT9-064-010		PANEL CD
28	87-036-389-010		SW,PUSH LOCK
29	8A-CDB-218-010		SPR-T,CD
30	8A-CD9-660-010		BAR-ANT,MW 2B-ACD(C01)
31	8A-CDB-210-010		DRUM,GEAR
32	87-063-165-010		OIL-DMPR 150
33	8A-CDB-214-010		BASE,VOL
34	8A-CDB-012-010		BTN,VOL<[S]319LH>
34	8A-CDB-056-010		BTN,VOL <OR><[D]HA>
35	8A-CDB-022-010		POINTER,TU
36	8A-CDB-209-010		HLDR,BTN TUN
37	8A-CDB-211-010		GEAR,MID TUN
38	8A-CDB-011-010		BTN,TUN
39	8A-CDB-219-010		HLDR,TRAN
⚠ 40	8A-CDB-651-010		PT,H 2.5W EI48X23
41	8A-CDB-019-010		HANDL,GRIP
42	8A-CDB-018-110		COVER, HANDL
43	87-A91-857-010		ANT,ROD 5SEC709
44	8A-CDB-002-010		CABI,REAR
45	8A-CDB-007-010		WINDOW,TU<[S]319LH>
45	8A-CDB-053-010		WINDOW,TU <OR><[D]HA>
46	8A-CDB-217-010		LEVER,BAND
47	8A-CDB-020-010		LID,BATT
48	86-CT9-223-010		CUSH,FOOT
49	8A-CDB-207-010		HLDR,ANT
⚠ 50	87-A60-178-010		JACK,AC E W/SW
51	8A-CDB-215-010		SPR-T,BATT
52	8A-CDB-220-010		HLDR,M66 BAR ANT
53	8A-CDB-131-010		KEY,REC
54	8A-CDB-216-010		PLATE,TRAN
55	8A-CDB-010-010		BTN,TU
56	87-A90-086-010		COVER,AC JACK
57	8A-CDB-618-010		FF-CABLE, 16P 1.25 FR-MAIN
58	8A-CDB-623-010		FF-CABLE, 16P 1.0 CD-RF
59	8A-CDB-619-010		FF-CABLE, 8P 1.25 CD-FR
60	8A-CDB-208-010		HLDR,LED SA/SC36
61	8A-CDB-226-010		SPR-P,REC
⚠ 62	87-A91-369-010		SW,AC SL 2 2 2 SDKGA41700
63	8A-CDB-633-010		CONN ASSY,4P SPKR
64	M8-ZZK-E90-070		DA11T3C
65	8A-CDB-225-010		PLATE,REC
A	81-CD5-204-010		SCREW CD
B	87-651-104-410		VT1+3-30
C	87-741-096-410		UT2+3-10
D	87-751-097-410		SCREW 3X12
E	87-261-096-410		SCREW,V+3-10 GLD
F	87-741-074-410		UT2+2.6-8
G	87-745-094-410		UT2+3-6 W/O SLOT NI
H	87-751-095-410		VT2+3-8 W/O
I	87-745-094-410		UT2+3-6

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

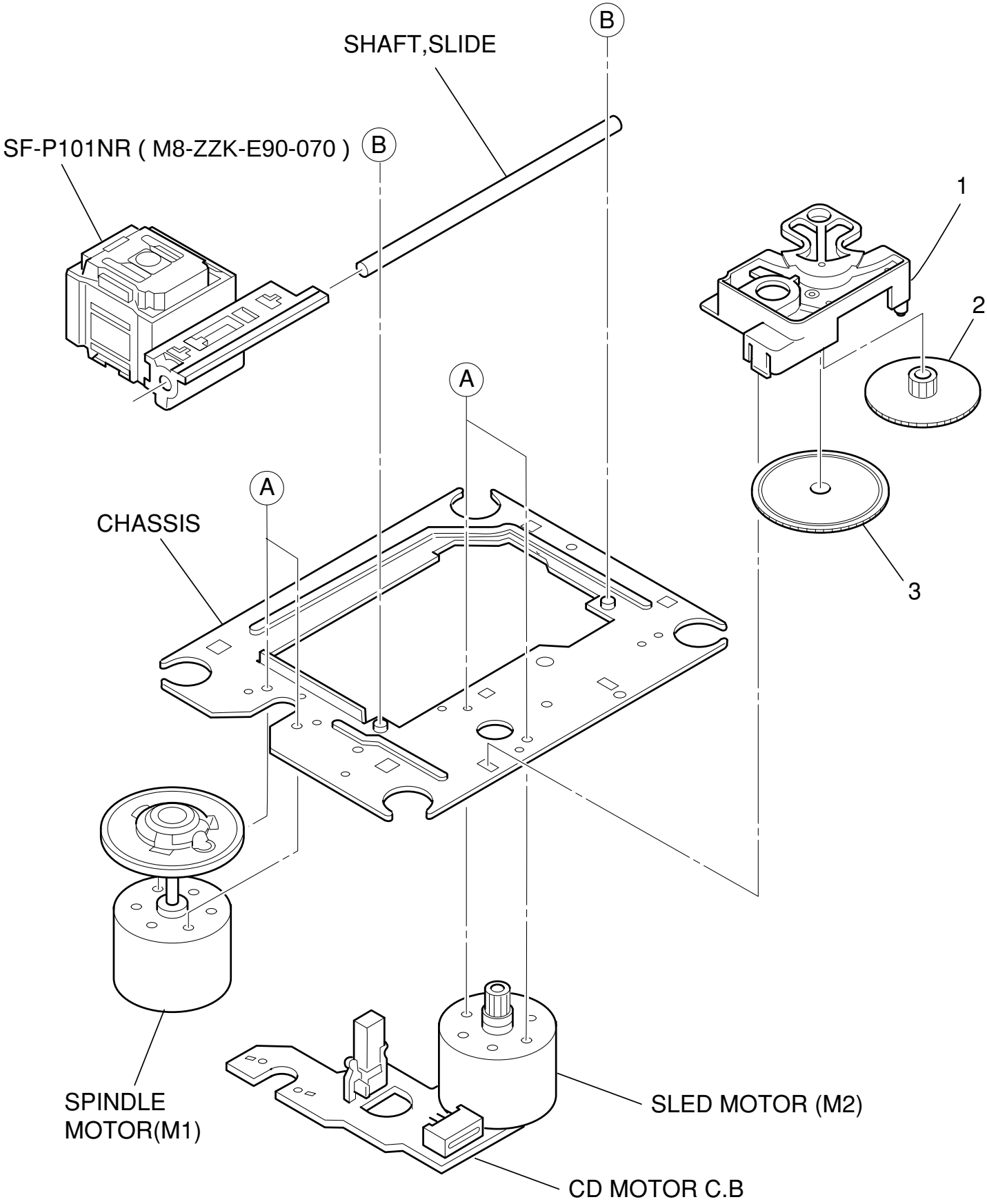
TAPE MECHANISM EXPLODED VIEW 1 / 1



TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-ZM1-254-310		SPR-C,REEL R
2	8Z-ZM1-225-110		GEAR,REEL R
3	8Z-ZM1-253-210		SPR-C,AUTO SENSOR
4	8Z-ZM1-217-110		LEVER,AUTO SENSOR
5	8Z-ZM1-212-110		LEVER,T-UP
6	8Z-ZM1-245-310		SPR-T,AUTO
7	8Z-ZM1-236-010		CLR,SLIP FF/REW
8	8Z-ZM1-252-110		SPR-C,FF/REW
9	8Z-ZM1-230-010		GEAR,SLIP FF/REW A
10	8Z-ZM1-269-010		FELT,FF/REW 2
11	8Z-ZM1-238-110		GEAR,SLIP FF/REW B 2
12	8Z-ZM1-237-110		LEVER,FF/REW 2
13	8Z-ZM1-283-010		LEVER,PAUSE 2
14	8Z-ZM1-222-010		LEVER,E-LOCK M
15	8Z-ZM1-219-010		LEVER,E-OPEN
16	8Z-ZM1-244-110		SPR-T,T-UP
17	8Z-ZM1-247-310		SPR-T,PINCH
18	8Z-ZM1-261-110		ROLLER ASSY,PINCH
19	8Z-ZM1-221-210		LEVER,PINCH
20	8Z-ZM1-205-310		LEVER,PLAY
21	8Z-ZM1-248-210		SPR-T,BRG
22	87-A91-830-010		HEAD,RP-7442
23	84-ZM2-227-310		SPR-C,AZIMUTH
24	8Z-ZM1-216-110		LEVER,AUTO
25	8Z-ZM1-246-110		SPR-T,AUTO 2
26	8Z-ZM1-233-110		GEAR,IDL REW
27	8Z-ZM1-208-010		LEVER,STOP
28	8Z-ZM1-207-010		LEVER,FF
29	8Z-ZM1-206-010		LEVER,REW
30	8Z-ZM1-211-210		LEVER,REC 2
31	87-A91-819-010		HEAD,EH 2NSS-2200
32	8Z-ZM1-215-010		LEVER,REC LOCK
33	87-A91-492-010		SW,LEAF MSW18560
34	8Z-ZM1-226-010		GEAR,REEL L
35	8Z-ZM1-241-210		SPR-T,PLAY
36	8Z-ZM1-220-110		LEVER,REC SENSOR
37	8Z-ZM1-249-210		SPR-T,FR
38	8Z-ZM1-242-310		SPR-T,FF/REW
39	8Z-ZM3-244-010		GEAR,CAM TD20
40	8Z-ZM1-232-010		GEAR,IDL FF/REW
41	8Z-ZM3-228-110		FLY-WHL,M3
42	8Z-ZM1-267-110		SHAFT,CAPSTAN 2
43	8Z-ZM1-228-010		GEAR,SLIP T-UP B
44	8Z-ZM1-265-010		FELT,T-UP
45	8Z-ZM1-227-010		GEAR,SLIP T-UP A
46	8Z-ZM1-251-210		SPR-C,T-UP SLIP
47	8Z-ZM1-243-310		SPR-T,STOP/PAUSE
48	87-A91-825-010		MOT,M09Y/Z
49	8Z-ZM1-271-010		PULLEY,MOT ZZM-1
50	8Z-ZM1-264-010		BELT,MAIN S
51	8Z-ZM1-260-010		SPR-P,CASETTE
52	8Z-ZM1-201-610		CHAS ASSY,ZZM-1
53	8Z-ZM1-255-310		SPR-T,E-LOCK
54	8Z-ZM1-214-210		LEVER,LOCK
55	8Z-ZM1-257-110		SPR-C,F/R
56	8Z-ZM1-275-010		W-L,1.47-4-0.25
A	84-ZM2-242-010		S-SCREW,AZ1-2-6.4
B	8Z-ZM1-270-110		V+2.6 ZZM-1
C	87-B10-301-010		W-L,1.63-3.2-0.5 SLIT

CD MECHANISM EXPLODED VIEW 1 / 1



CD MECHANISM PARTS LIST 1 / 1

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

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CDB-912-010		IB,LH1(P)<LH>
1	8A-CDB-902-110		IB,LH(ESP)FM<HA>
⚠ 2	87-A80-119-010		AC CORD SET ASSY,AZ<HA>
⚠ 2	87-A80-036-010		AC CORD SET ASSY,E W/FLTR VOL<LH>
⚠ 3	87-A91-017-010		PLUG,CONVERSION JT-0476

アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)
AIWA CO.,LTD. 2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110, JAPAN TEL:03 (3827) 3111

9420208 0251431 Printed in Singapore