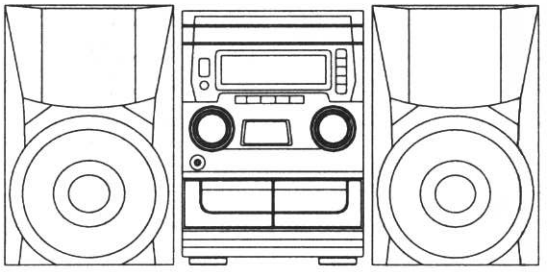
aiwa

aiwa SERVICE

NSX-A555
NSX-S555

SERVICE MANUAL



COMPACT DISC STEREO SYSTEM

- BASIC TAPE MECHANISM : 6ZM-3 PR1NM/2ZM -3MK2 PR4N
- BASIC CD MECHANISM : 4ZG - 1 Z3RDSHM
- TYPE: U,LH

REVISION PUBLISHING

SYSTEM	CD – CASSEIVER	SPEAKER
NSX-A555	CX-NA555	SX-WNA555
NSX-S555	CX-NS555	SX-WNS555

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" (S/M Code No. 09-98A-309-20A).

- If requiring information about the CD mechanism, see Service Manual of 4ZG-1 (S/M Code No. 09-983-249-3S2).

S/M Code No. 09–992–401–7R1

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SPECIFICATIONS

Main unit CX-NA555<U> / CX-NS555<LH>

<FM Tuner section>	
Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	13.2 dBf
Antenna terminal	75 ohms (unbalanced)
<MW Tuner section>	
Tuning range	530 kHz to 1710 kHz (10 kHz step) 531 kHz to 1602 kHz (9 kHz step)
Usable sensitivity	350 uV/m
Antenna	Loop Antenna
<Amplifier section>	<U>
Mid-high frequency amplifier Power output	15W + 15W (200Hz - 20kHz T.H.D. less than 1%,8ohms)
Total harmonic distortion	0.06%(10W,1kHz,8ohms,DIN AUDIO)
Low frequency amplifier Power output	35W + 35W (20Hz - 200Hz T.H.D. less than 1%,4ohms)
Total harmonic distortion	0.06%(25W,135Hz,4ohms,DIN AUDIO)
<Amplifier section>	<LH>
Mid-high frequency amplifier Power output	10W + 10W (200Hz - 20kHz T.H.D. less than 1%,8ohms)
Total harmonic distortion	0.06%(8W,1kHz,8ohms,DIN AUDIO)
Low frequency amplifier Power output	40W + 40W (20Hz - 200Hz T.H.D. less than 1%,4ohms)
Total harmonic distortion	0.06%(32W,135Hz,4ohms,DIN AUDIO)
Inputs	VIDEO / AUX: 300mV (adjustable) Mic : 1.0mV (10k ohms) <LH>
Outputs	SPEAKER HIGH FREQ : 8ohms or more SPEAKER LOW FREQ : 4ohms or more PHONES : 32ohms SURROUND SPEAKERS: <U> 8 ohms to16ohms

<Cassette deck section>	
Track format	4 tracks, 2 channels stereo
Frequency response	50 Hz – 15000 Hz
Recording system	AC bias
Heads	Deck 1 : Playback head x 1 Deck 2 : Recording/playback/erase head x 1
<Compact disc player section>	
Laser	Semiconductor laser (λ =780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1kHz,0dB)
Harmonic distortion	0.05% (1kHz,0dB)
<General>	<U>
Power requirements	120V AC, 60Hz
Power consumption	120 W
Dimensions of main unit (W x H x D)	260 x 330 x 355 mm
Weight of main unit	7.8 kg
<General>	<LH>
Power requirements	120V/220 - 230V/240V AC switchable,50/60Hz
Power consumption	125 W
Dimensions of main unit (W x H x D)	260 x 330 x 355 mm
Weight of main unit	8.5 kg

Speaker system SX-WNA555 / SX-WNS555

Cabinet type	2 way, subwoofer (magnetic shielded type)
Speakers	Subwoofer : 160 mm cone type Full range : 100 mm cone type
Impedance	4 ohms/8 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	240 x 324 x 275 mm
Weight	4.8 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 käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

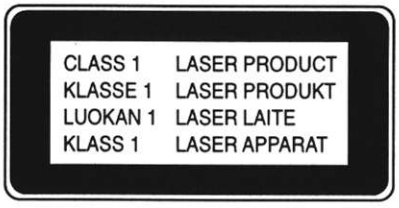
VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified 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 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.



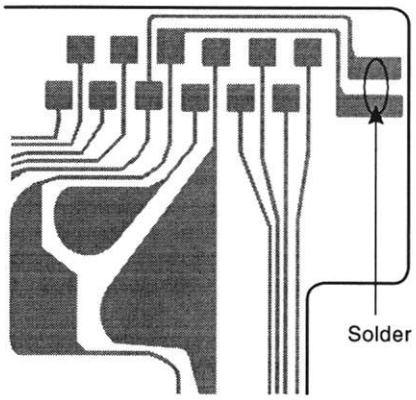
Precaution to replace Optical block

(KSS – 213F)

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



NOTE ON BEFORE STARTING REPAIR

1. Forced discharge of electrolytic capacitor of power supply block

When repair is going to be attempted in the set that uses relay circuit in the power supply block, electric potential is kept charged across the electrolytic capacitors (C101, 102) even though AC power cord is removed. If repair is attempted in this condition, the secondary defect can occur.
In order to prevent the secondary trouble, perform the following measures before starting repair work.

Discharge procedure

① Remove the AC power cord.
② Connect a discharging resistor at an end of lead wire that has clips at both ends. Connect the other end of the lead wire to metal chassis.
③ Contact the other end of the discharging resistor to the positive (+) side (+VH) of C101. (For two seconds)
④ Contact the same end of the discharging resistor as step ③ to the negative (-) side (-VH) of C102 in the same way. (For two seconds)
⑤ Check that voltage across C101 and C102 has decreased 1 V or less using a multimeter or an oscilloscope.

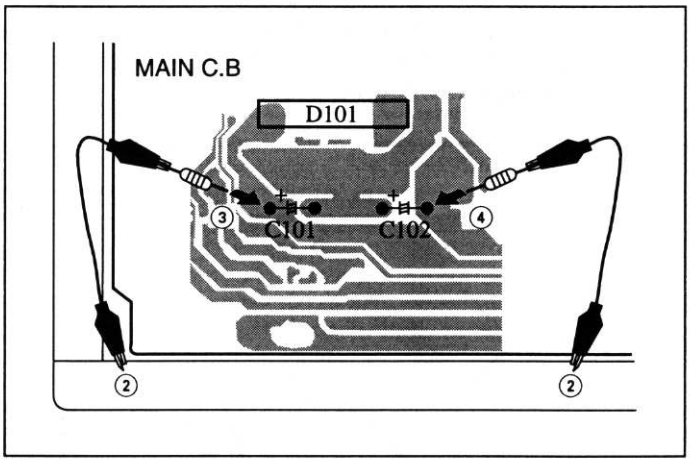


Fig-1

Select a discharging resistor referring to the following table.

Charging voltage (V) (C101, 102)	Discharging resistor (Ω)	Rated power (W)	Parts number
25-48	100	3	87-A00-247-090
49-140	220	5	87-A00-232-090

Note: The reference numbers (C101, C102) of the electrolytic capacitors can change depending on the models. Be sure to check the reference numbers of the charging capacitors on schematic diagram before starting the discharging work.

2. Check items before exchanging the MICROCOMPUTER

Be sure to check the following items before exchanging the MICROCOMPUTER. Exchange the MICROCOMPUTER after confirming that the MICROCOMPUTER is surely defective.

2-1. Regarding the HOLD terminal of the MICROCOMPUTER

When the HOLD terminal (INPUT) of the MICROCOMPUTER is "H", the MICROCOMPUTER is judged to be operating correctly. When this terminal is "L", the main power cannot be turned on. Therefore, be sure to check the terminal voltage of the HOLD terminal before exchange.
When the MICROCOMPUTER is not defective, the HOLD terminal can also go "L" when the POWER AMPLIFIER has any abnormalities that triggers the abnormality detection circuit on the MAIN C. B. that sets the HOLD terminal to "L".

- Good or no good judgement of the MICROCOMPUTER

① Turn on the AC main power.
② Confirm that the main power is turned on and the HOLD terminal of the MICROCOMPUTER keeps the "H" level or not.
③ When the HOLD terminal is "L" level, the abnormality detection circuit is judged to be working correctly and the MICROCOMPUTER is judged to be good.

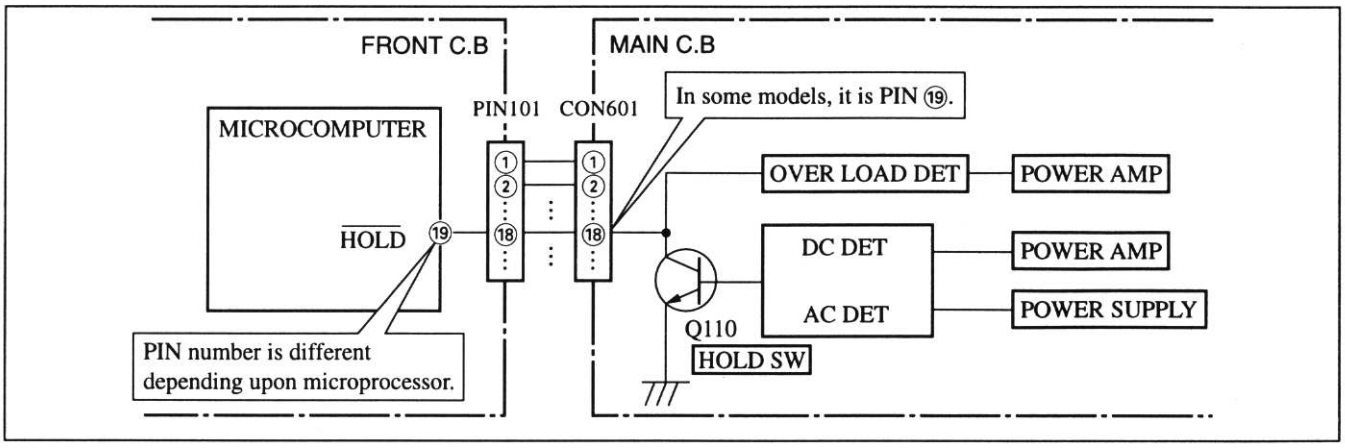


Fig-2-1

In such a case, check also if the POWER AMPLIFIER circuit or power supply circuit has any abnormalities or not.

2-2. Regarding reset

There are cases that the machine does not work correctly because the MICROCOMPUTER is not reset even though the AC power cord is re-inserted, or the software reset (pressing the STOP key + POWER key) is performed.
When the above described phenomenon occurs, it can leads to wrong judgement as if the MICROCOMPUTER is defective and to exchange the MICROCOMPUTER. In such a case, perform the forced-reset by the following procedure and check good or no good of the MICROCOMPUTER.

① Remove the AC power cord.

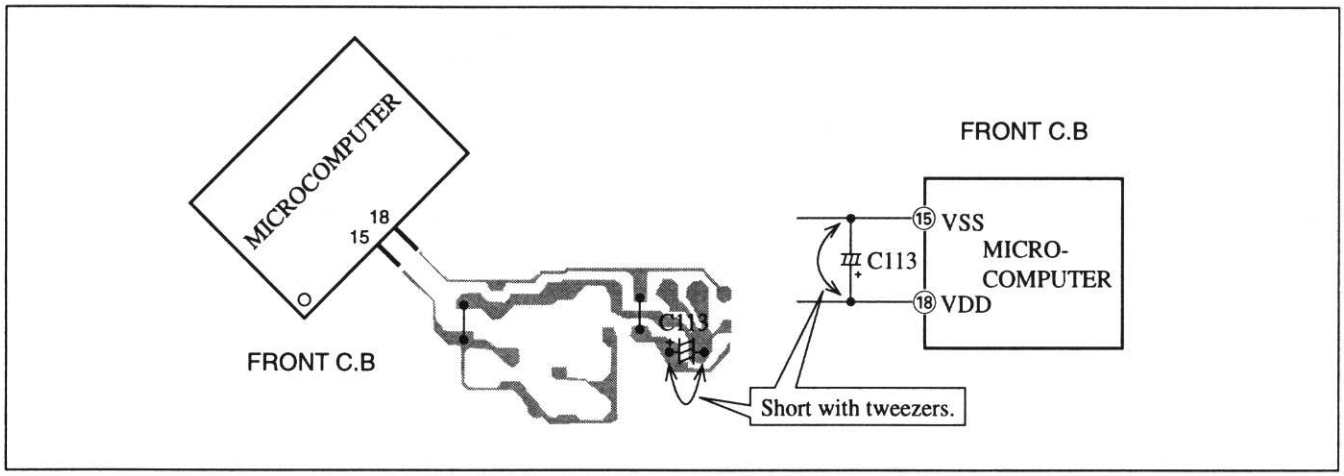


Fig-2-2

② Short both ends of the electrolytic capacitor C113 that is connected to VDD of the MICROCOMPUTER with tweezers.
③ Connect the AC power cord again. If the MICROCOMPUTER returns to the normal operation, the MICROCOMPUTER is good.

Note: The reference number or MICROCOMPUTER pin number of transistor (Q110) and electrolytic capacitor (C113) can change depending on the models. Be sure to check the reference numbers on schematic diagram before starting the discharging work.

2-3. Confirmation of soldering state of MICROCOMPUTER

Check the soldering state of the MICROCOMPUTER in addition to the above described procedures. Be sure to exchange the MICROCOMPUTER after surely confirming that the trouble is not caused by poor soldering but the MICROCOMPUTER itself.

ELECTRICAL MAIN PARTS LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	8Z-NF8-602-010		C-IC,UPD780228GF-031-3BA
	87-NF8-614-010		IC,SPS-442-1-W
	87-A20-783-040		C-IC,BA7762AFS
	87-A21-023-040		C-IC,BA3835F
	87-A21-031-040		C-IC,BU4551BF
	87-A21-021-040		C-IC,BU2099FV
	87-A21-011-040		C-IC,M62445FP-600D
	87-070-127-110		IC,LC72131D
	87-A20-913-010		IC,LA1837NL
	87-020-454-010		IC,DN6851
TRANSISTOR			
	87-026-609-080		TR,KTA1266GR
	89-213-702-010		TR,2SB1370 (1.8W)
	87-026-610-080		TR,KTC3198GR
	87-A30-076-080		C-TR,2SC3052F
	87-A30-075-080		C-TR,2SA1235F
	87-A30-196-080		TR,2SC4115SRS
	87-A30-074-080		C-TR,RT1P 141C
	87-A30-107-070		C-TR,CMBT5401
	87-A30-257-080		C-TR,2SD1306E
	87-A30-190-080		TR,CC5551
	87-A30-109-010		TR,2SD 2495
	87-A30-108-010		TR,2SB1626
	87-A30-106-070		C-TR,CMBT5551
	87-A30-087-080		C-FET,2SK2158
	87-A30-256-010		TR,2SD1933
	87-A30-255-010		TR,2SB1342
	87-A30-119-040		C-TR,2SC3906K R
	87-A30-159-080		C-TR,KTA1298Y
	87-A30-240-080		TR,CSA1585BC
	87-A30-073-080		C-TR,RT1N 141C
	87-A30-105-080		C-TR,RT1P 441C
DIODE			
	87-020-465-080		DIODE,1SS133 (110MA)
	87-017-654-060		DIODE,GBU6J
	87-070-274-080		DIODE,1N4003 SEM
	87-A40-383-080		ZENER,MTZJ30A
	87-A40-345-080		ZENER,MTZJ10C
	87-A40-270-080		C-DIODE,MC2838
	87-A40-269-080		C-DIODE,MC2836
	87-A40-488-080		DIODE,1SS244
	87-A40-509-080		ZENER,MTZJ6.8C
	87-017-932-080		ZENER,MTJ6.2B
	87-A40-002-080		ZENER,MTZJ5.1C
	87-A40-438-080		ZENER,MTZJ4.7A
	87-017-447-010		DIODE,GBU4DL-6419
MAIN C.B			
C1	87-012-369-080		C-CAP,S 0.047-50F
C2	87-012-369-080		C-CAP,S 0.047-50F
C3	87-012-368-080		C-CAP,S 0.1-50 F
C4	87-012-368-080		C-CAP,S 0.1-50 F
C5	87-012-368-080		C-CAP,S 0.1-50 F
C6	87-012-368-080		C-CAP,S 0.1-50 F
C9	87-A10-520-090		CAP,E 3300-35 M SMG
C10	87-A10-520-090		CAP,E 3300-35 M SMG
C21	87-010-385-080		CAP, ELECT 220-25V<LH>
C22	87-010-385-080		CAP, ELECT 220-25V<LH>
C23	87-010-247-080		CAP, ELECT 100-50V
C24	87-010-247-080		CAP, ELECT 100-50V
C25	87-010-430-080		CAP, ELECT 100-63
C26	87-010-263-080		CAP, ELECT 100-10V
C27	87-012-140-080		CAP 470P
C28	87-010-263-080		CAP, ELECT 100-10V<U>
C29	87-010-247-080		CAP, ELECT 100-50V
C30	87-010-112-080		CAP, ELECT 100-16V
C31	87-010-235-080		CAP,E 470-16 SME
C33	87-010-405-080		CAP,E 10-50<LH>
C34	87-010-405-080		CAP,E 10-50<LH>
C61	87-010-260-080		CAP, ELECT 47-25V
C62	87-010-403-080		CAP, ELECT 3.3-50V
C101	87-010-178-080		CHIP CAP 1000P
C102	87-010-178-080		CHIP CAP 1000P
C103	87-010-405-080		CAP, ELECT 10-50V
C104	87-010-405-080		CAP, ELECT 10-50V
C107	87-010-408-080		CAP, ELECT 47-50V
C108	87-010-408-080		CAP, ELECT 47-50V
C109	87-010-322-080		C-CAP,S 100P-50 CH
C110	87-010-322-080		C-CAP,S 100P-50 CH
C111	87-010-260-080		CAP, ELECT 47-25V
C112	87-010-260-080		CAP, ELECT 47-25V
C113	87-A10-812-080		C-CAP,S 220P-200 J CH
C114	87-A10-812-080		C-CAP,S 220P-200 J CH
C117	87-016-247-080		C-CAP,0.1-50 F
C118	87-016-247-080		C-CAP,0.1-50 F
C121	87-010-178-080		CHIP CAP 1000P
C122	87-010-178-080		CHIP CAP 1000P
C123	87-010-176-080		C-CAP,S 680P-50 SL
C124	87-010-176-080		C-CAP,S 680P-50 SL
C125	87-012-368-080		C-CAP,S 0.1-50 F
C126	87-012-368-080		C-CAP,S 0.1-50 F
C127	87-012-368-080		C-CAP,S 0.1-50 F
C128	87-012-368-080		C-CAP,S 0.1-50 F
C129	87-010-191-080		C-CAP,S 0.015-50 F
C130	87-010-191-080		C-CAP,S 0.015-50 F
C131	87-010-197-080		CAP, CHIP 0.01 DM
C132	87-010-197-080		CAP, CHIP 0.01 DM
C133	87-010-197-080		CAP, CHIP 0.01 DM
C203	87-010-177-080		C-CAP,S 820P-50 SL
C204	87-010-177-080		C-CAP,S 820P-50 SL
C209	87-010-403-080		CAP, ELECT 3.3-50V
C210	87-010-403-080		CAP, ELECT 3.3-50V
C211	87-010-181-080		CAP,CHIP S 1800P
C212	87-010-181-080		CAP,CHIP S 1800P
C213	87-010-403-080		CAP, ELECT 3.3-50V
C214	87-010-403-080		CAP, ELECT 3.3-50V
C215	87-010-322-080		C-CAP,S 100P-50 CH
C216	87-010-322-080		C-CAP,S 100P-50 CH
C217	87-010-260-080		CAP, ELECT 47-25V
C218	87-010-260-080		CAP, ELECT 47-25V
C219	87-A10-946-080		C-CAP,S 220P-100 J CH
C220	87-A10-946-080		C-CAP,S 220P-100 J CH
C223	87-010-190-080		S CHIP F 0.01
C224	87-010-190-080		S CHIP F 0.01
C225	87-012-368-080		C-CAP,S 0.1-50 F
C226	87-012-368-080		C-CAP,S 0.1-50 F
C227	87-010-186-080		CAP,CHIP 4700P
C228	87-010-186-080		CAP,CHIP 4700P
C229	87-010-993-080		C-CAP,S 0.056-25 B
C230	87-010-993-080		C-CAP,S 0.056-25 B
C231	87-010-196-080		CHIP CAPACITOR,0.1-25
C232	87-010-196-080		CHIP CAPACITOR,0.1-25
C233	87-010-190-080		S CHIP F 0.01
C234	87-010-190-080		S CHIP F 0.01
C235	87-016-285-080		CAP,E 47-100SME<U>
C236	87-016-285-080		CAP,E 47-100SME<U>
C237	87-010-322-080		C-CAP,S 100P-50 CH
C238	87-010-322-080		C-CAP,S 100P-50 CH
C239	87-010-196-080		CHIP CAPACITOR,0.1-25
C240	87-010-408-080		CAP, ELECT 47-50V
C301	87-010-318-080		C-CAP,S 47P-50 CH
C302	87-010-318-080		C-CAP,S 47P-50 CH
C303	87-012-157-080		C-CAP,S 330P-50 CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C304	87-012-157-080		C-CAP,S 330P-50 CH
C305	87-012-145-080		CAP, CHIP S 270P CH
C306	87-012-145-080		CAP, CHIP S 270P CH
C307	87-010-196-080		CHIP CAPACITOR,0.1-25
C309	87-010-196-080		CHIP CAPACITOR,0.1-25
C310	87-010-196-080		CHIP CAPACITOR,0.1-25
C311	87-010-198-080		CAP, CHIP 0.022
C312	87-010-198-080		CAP, CHIP 0.022
C313	87-010-178-080		C-CAP,S 1000P-50 B<LH>
C314	87-010-180-080		C-CER 1500P<U>
C314	87-010-178-080		C-CAP,S 1000P-50 B<LH>
C315	87-010-182-080		C-CAP,S 2200P-50 B<U>
C315	87-010-178-080		C-CAP,S 1000P-50 B<LH>
C316	87-010-182-080		C-CAP,S 2200P-50 B
C316	87-010-178-080		C-CAP,S 1000P-50 B<LH>
C321	87-016-492-080		C-CAP,S 0.33-16 FZ
C322	87-016-492-080		C-CAP,S 0.33-16 FZ
C324	87-010-260-080		CAP, ELECT 47-25V
C325	87-010-370-080		CAP,E 330-6.3 SME
C327	87-010-404-080		CAP, ELECT 4.7-50V
C328	87-010-404-080		CAP, ELECT 4.7-50V
C332	87-010-196-080		CHIP CAPACITOR,0.1-25
C335	87-010-401-080		CAP, ELECT 1-50V
C336	87-010-401-080		CAP, ELECT 1-50V
C337	87-010-196-080		CHIP CAPACITOR,0.1-25
C339	87-010-196-080		CHIP CAPACITOR,0.1-25
C340	87-010-196-080		CHIP CAPACITOR,0.1-25
C351	87-012-140-080		CAP 470P
C352	87-012-140-080		CAP 470P
C354	87-010-175-080		CAP 560P
C355	87-012-349-080		C-CAP,S 1000P-50 CH
C356	87-010-260-080		CAP, ELECT 47-25V
C357	87-010-197-080		CAP, CHIP 0.01 DM
C358	87-010-183-080		C-CAP,S 2700P-50 B
C359	87-010-183-080		C-CAP,S 2700P-50 B
C360	87-010-183-080		C-CAP,S 2700P-50 B
C363	87-A10-772-080		CAP,M 5600P-50 J
C370	87-010-196-080		CHIP CAPACITOR,0.1-25
C373	87-016-083-080		C-CAP,S 0.15-16 RK
C374	87-016-083-080		C-CAP,S 0.15-16 RK
C378	87-010-196-080		CHIP CAPACITOR,0.1-25
C379	87-010-406-080		CAP, ELECT 22-50
C380	87-010-406-080		CAP, ELECT 22-50
C382	87-010-312-080		C-CAP,S 15P-50 CH
C386	87-010-196-080		CHIP CAPACITOR,0.1-25
C387	87-012-145-080		CAP, CHIP S 270P CH
C388	87-012-156-080		C-CAP,S 220P-50 CH
C391	87-010-319-080		C-CAP,S 56P-50 CH
C392	87-010-319-080		C-CAP,S 56P-50 CH
C393	87-010-319-080		C-CAP,S 56P-50 CH
C394	87-010-319-080		C-CAP,S 56P-50 CH
C451	87-010-401-080		CAP, ELECT 1-50V
C452	87-010-401-080		CAP, ELECT 1-50V
C457	87-010-196-080		CHIP CAPACITOR,0.1-25
C458	87-010-196-080		CHIP CAPACITOR,0.1-25
C459	87-A11-004-080		CAP,M 0.022-50 J DE
C460	87-A11-004-080		CAP,M 0.022-50 J DE
C465	87-A11-004-080		CAP,M 0.022-50 J DE
C466	87-A11-004-080		CAP,M 0.022-50 J DE
C601	87-010-180-080		C-CER 1500P
C602	87-010-180-080		C-CER 1500P
C605	87-010-318-080		C-CAP,S 47P-50 CH
C606	87-010-318-080		C-CAP,S 47P-50 CH
C613	87-016-081-080		C-CAP,S 0.1-16 RK
C614	87-016-081-080		C-CAP,S 0.1-16 RK
C615	87-A11-011-080		CAP,M 0.12-50 J DE
C616	87-A11-011-080		CAP,M 0.12-50 J DE
C617	87-A11-008-080		CAP,M 0.056-50 J DE
C618	87-A11-008-080		CAP,M 0.056-50 J DE
C619	87-010-185-080		C-CAP,S 3900P-50 B
C620	87-010-185-080		C-CAP,S 3900P-50 B
C621	87-010-401-080		CAP, ELECT 1-50V
C622	87-010-401-080		CAP, ELECT 1-50V
C623	87-A10-773-080		CAP,M 0.10-50 J
C624	87-A10-773-080		CAP,M 0.10-50 J
C625	87-010-405-080		CAP, ELECT 10-50V
C626	87-010-405-080		CAP, ELECT 10-50V
C627	87-010-196-080		CHIP CAPACITOR,0.1-25
C629	87-010-405-080		CAP, ELECT 10-50V
C630	87-010-213-080		C-CAP,S 0.015-50 B
C631	87-010-992-080		C-CAP,S 0.047-25 B
C632	87-010-263-080		CAP, ELECT 100-10V
C633	87-010-263-080		CAP, ELECT 100-10V
C634	87-010-196-080		CHIP CAPACITOR,0.1-25
C635	87-010-196-080		CHIP CAPACITOR,0.1-25
C636	87-010-194-080		C-CAP,S 0.047-25
C637	87-010-183-080		C-CAP,S 2700P-50 B
C638	87-010-314-080		C-CAP,S 22P-50V
C639	87-010-314-080		C-CAP,S 22P-50V
C641	87-010-196-080		CHIP CAPACITOR,0.1-25
C731	87-010-560-080		CAP, ELECT 10-50<LH>
C732	87-010-196-080		CHIP CAPACITOR,0.1-25<LH>
C733	87-010-196-080		CHIP CAPACITOR,0.1-25<LH>
C734	87-012-157-080		C-CAP,S 330P-50<LH>
C736	87-010-196-080		CHIP CAPACITOR,0.1-25<LH>
CN301	87-099-827-010		CONN,3P S2M-3W
CN351	87-099-832-010		CONN,8P S2M-8W
CN601	87-099-719-010		CONN,30P TYK-B(X)
CN602	87-A60-131-010		CONN,6P V FE
CN604	87-099-570-010		CONN,13P TUC-P13P-B1
J203	87-033-240-010		TERMINAL,SP 4P32SV1-05
J204	87-A60-750-010		JACK,PIN 4P R/W BLUE<U>
J205	87-A60-751-010		JACK,PIN 2P P/W BLUE<LH>
J601	87-A60-398-010		JACK,PIN 2P R/W HSP-242V24
L101	87-003-383-010		COIL,1UH-S
L102	87-003-383-010		COIL,1UH-S
L201	87-003-383-010		COIL,1UH-S
L202	87-003-383-010		COIL,1UH-S
L301	87-A50-049-010		COIL,TRAP 85K(COI)
L302	87-A50-049-010		COIL,TRAP 85K(COI)
L351	87-007-342-010		COIL,OSC 85K BIAS
R20	87-A00-261-080		RES,M/F 0.56-1W J
R129	87-A00-257-080		RES,M/F 0.15-1W J
R130	87-A00-257-080		RES,M/F 0.15-1W J
R131	87-A00-257-080		RES,M/F 0.15-1W J
R132	87-A00-257-080		RES,M/F 0.15-1W J
R143	87-A00-439-050		RES,180-1/2W J RP
R144	87-A00-439-050		RES,180-1/2W J RP
R145	87-A00-439-050		RES,180-1/2W J RP
R146	87-A00-439-050		RES,180-1/2W J RP
R165	87-A00-257-080		RES,M/F 0.15-1W J
R166	87-A00-257-080		RES,M/F 0.15-1W J
R231	87-A00-258-080		RES,M/F 0.22-1W J
R232	87-A00-258-080		RES,M/F 0.22-1W J
R233	87-A00-258-080		RES,M/F 0.22-1W J
R234	87-A00-258-080		RES,M/F 0.22-1W J
R265	87-A00-258-080		RES,M/F 0.22-1W J
R266	87-A00-258-080		RES,M/F 0.22-1W J
SFR351	87-A90-433-080		SFR,50K H NVZ6TLTA
SFR352	87-A90-433-080		SFR,50K H NVZ6TLTA
WH1	87-A90-510-010		HLDR,WIRE 2.5-9P

FRONT C.B

C201	87-012-156-080		C-CAP,S 220P-50 CH
C202	87-010-322-080		C-CAP,S 100P-50 CH
C203	87-010-322-080		C-CAP,S 100P-50 CH
C204	87-010-322-080		C-CAP,S 100P-50 CH
C205	87-010-322-080		C-CAP,S 100P-50 CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C206	87-010-322-080		C-CAP,S 100P-50 CH
C207	87-010-322-080		C-CAP,S 100P-50 CH
C208	87-010-322-080		C-CAP,S 100P-50 CH
C209	87-010-322-080		C-CAP,S 100P-50 CH
C210	87-010-322-080		C-CAP,S 100P-50 CH
C211	87-010-322-080		C-CAP,S 100P-50 CH
C251	87-015-699-040		CAP,E 10-50 7L
C252	87-010-198-080		CAP, CHIP 0.022
C254	87-010-194-080		CAP, CHIP 0.047
C255	87-A10-586-040		CAP,E 47-35 7L SR
C256	87-015-699-040		CAP,E 10-50 7L
C259	87-015-699-040		CAP,E 10-50 7L
C260	87-010-198-080		CAP, CHIP 0.022
C262	87-010-196-080		CHIP CAPACITOR,0.1-25
C301	87-010-182-080		C-CAP,S 2200P-50 B
C302	87-010-182-080		C-CAP,S 2200P-50 B
C311	87-010-194-080		CAP, CHIP 0.047
C313	87-010-196-080		CHIP CAPACITOR,0.1-25
C314	87-010-194-080		CAP, CHIP 0.047
C321	87-010-196-080		CHIP CAPACITOR,0.1-25
C323	87-010-248-040		CAP,E 220-10 SME
C324	87-010-194-080		CAP, CHIP 0.047
C331	87-010-196-080		CHIP CAPACITOR,0.1-25
C332	87-010-178-080		CHIP CAP 1000P
C333	87-012-140-080		CAP 470P
C334	87-010-312-080		C-CAP,S 15P-50 CH
C335	87-012-140-080		CAP 470P
C336	87-010-196-080		CHIP CAPACITOR,0.1-25
C337	87-010-196-080		CHIP CAPACITOR,0.1-25
C338	87-012-155-080		C-CAP 180P-50CH
C339	87-012-156-080		C-CAP,S 220P-50 CH
C340	87-010-197-080		CAP, CHIP 0.01 DM
C401	87-010-197-080		CAP, CHIP 0.01 DM
C451	87-010-196-080		CHIP CAPACITOR,0.1-25
C452	87-010-196-080		CHIP CAPACITOR,0.1-25
C453	87-010-196-080		CHIP CAPACITOR,0.1-25
C454	87-010-196-080		CHIP CAPACITOR,0.1-25
C455	87-010-196-080		CHIP CAPACITOR,0.1-25
C456	87-012-158-080		C-CAP,S 390P-50 CH
C457	87-010-196-080		CHIP CAPACITOR,0.1-25
C502	87-010-186-080		CAP, CHIP 4700P<LH>
C503	87-010-112-040		CAP,E 100-16<LH>
C504	87-010-405-040		CAP,E 10-50<LH>
C505	87-010-546-040		CAP,E 0.33-50<LH>
C506	87-010-320-080		C-CAP,S 68P-50 CH<LH>
C507	87-010-544-040		CAP,E 0.1-50<LH>
C508	87-010-178-080		C-CAP,S 1000P-50 K
C509	87-010-544-040		CAP,E 0.1-50<LH>
C601	87-010-196-080		CHIP CAPACITOR,0.1-25
C602	87-010-322-080		C-CAP,S 100P-50 CH
C603	87-010-322-080		C-CAP,S 100P-50 CH
C604	87-010-322-080		C-CAP,S 100P-50 CH
C701	87-010-196-080		CHIP CAPACITOR,0.1-25
CON101	87-099-720-010		CONN,30P TYK-B(P)
CON102	87-099-015-010		CONN,13P 6216V
CON301	87-099-013-010		CONN,11P 6216 V<U>
CON301	87-099-017-010		CONN,15P 6216 V<LH>
EMI201	87-008-372-080		FILTER, EMI BL OIRNI
EMI202	87-008-372-080		FILTER, EMI BL OIRNI
EMI701	87-A50-322-080		C-COIL,S BK2125 LM252
FL401	8Z-NF8-616-010		FL,SVA-11MM22
J501	87-A60-651-010		JACK,3.5 MONO<LH>
L331	87-A50-434-010		COIL,CLK 4.19M(TOKO)
LED311	87-A40-317-080		LED,SLR-342VCT31 RED
LED601	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED602	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED603	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED604	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED605	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED606	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED607	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED608	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED609	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED610	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED611	87-A40-619-080		LED,SLR-56PT-TE7-W GRN<LH>
LED612	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED613	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED614	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED631	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED632	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED633	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED634	87-A40-619-040		LED,SLR-56PT-T31-W GRN
SW401	87-A91-024-080		SW,TACT KSH0611BT
SW402	87-A91-024-080		SW,TACT KSH0611BT
SW403	87-A91-024-080		SW,TACT KSH0611BT
SW404	87-A91-024-080		SW,TACT KSH0611BT
SW405	87-A91-024-080		SW,TACT KSH0611BT
SW406	87-A91-024-080		SW,TACT KSH0611BT
SW407	87-A91-024-080		SW,TACT KSH0611BT
SW408	87-A91-024-080		SW,TACT KSH0611BT
SW409	87-A91-024-080		SW,TACT KSH0611BT
SW410	87-A91-024-080		SW,TACT KSH0611BT
SW411	87-A91-024-080		SW,TACT KSH0611BT
SW412	87-A91-024-080		SW,TACT KSH0611BT
SW413	87-A91-024-080		SW,TACT KSH0611BT
SW414	87-A91-024-080		SW,TACT KSH0611BT
SW415	87-A91-024-080		SW,TACT KSH0611BT
SW416	87-A91-024-080		SW,TACT KSH0611BT
SW417	87-A91-024-080		SW,TACT KSH0611BT
SW418	87-A91-024-080		SW,TACT KSH0611BT
SW419	87-A91-024-080		SW,TACT KSH0611BT
SW420	87-A91-024-080		SW,TACT KSH0611BT
SW421	87-A91-024-080		SW,TACT KSH0611BT
SW422	87-A91-024-080		SW,TACT KSH0611BT
SW423	87-A91-024-080		SW,TACT KSH0611BT
SW424	87-A91-024-080		SW,TACT KSH0611BT
SW425	87-A91-024-080		SW,TACT KSH0611BT
SW426	87-A91-024-080		SW,TACT KSH0611BT
SW427	87-A91-024-080		SW,TACT KSH0611BT
SW428	87-A91-024-080		SW,TACT KSH0611BT<LH>
SW434	87-A91-024-080		SW,TACT KSH0611BT<LH>
SW252	87-A90-535-010		SW,RTRY EC16B24304
SW253	87-A90-950-010		SW,RTRY EC12E12504 ENCORDER
VR501	87-NB7-602-010		VR,RTRY 10KAX1

PS C.B

C1	87-010-387-080		CAP,E 470-25 SME
⚠ C8	87-A10-520-090		CAP,E 3300-35<LH>
⚠ C9	87-A10-520-090		CAP,E 3300-35<LH>
CN1	87-A60-850-010		CONN,7P V VH<U>
CN1	87-A60-851-010		CONN,9P V VH<LH>
⚠ PR1	87-026-682-080		PROTECTOR,10A 491S 60V<LH>
⚠ PR2	87-026-682-080		PROTECTOR,10A 491S 60V<LH>
⚠ PT1	8Z-NF8-604-010		PT,ZNF-8<U>
⚠ PT1	8Z-NF8-609-010		PT,ZNF-8<LH>
⚠ PT2	8Z-NF8-661-010		PT,SUB ZNF-8<U>
⚠ PT2	8Z-NF8-663-010		PT,SUB ZNF-8<LH>
⚠ RY1	87-A90-976-010		RELAY,AC12V SDT-S-112LMR
⚠ RY1	87-A91-281-010		RELAY,AC DC12V OSA-SS-212 DM5
⚠ S1	87-A90-165-010		SW,SL 1-2-3 SWS2301<LH>
⚠ T1	87-A60-317-010		TERMINAL, 1P MSC
⚠ T2	87-A60-317-010		TERMINAL, 1P MSC

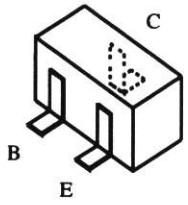
TUNER C.B

C701	87-010-381-080		CAP, ELECT 330-16V
C702	87-010-404-080		CAP, ELECT 4.7-50V
C703	87-012-286-080		CAP, U 0.01-25
C704	87-012-286-080		CAP, U 0.01-25

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C705	87-A10-592-080		C-CAP,S 0.015-50 J B
C706	87-A10-592-080		C-CAP,S 0.015-50 J B
C709	87-012-195-080		C-CAP,U 100P-50CH
C711	87-010-260-080		CAP, ELECT 47-25V
C712	87-010-831-080		C-CAP,U,0.1-16F
C714	87-012-286-080		CAP, U 0.01-25
C717	87-012-286-080		CAP, U 0.01-25
C718	87-012-179-080		C-CAP,U 20P-50 CH
C719	87-012-286-080		CAP, U 0.01-25
C720	87-012-195-080		C-CAP,U 100P-50CH
C721	87-012-176-080		CAP 15P
C722	87-012-176-080		CAP 15P
C723	87-012-274-080		CHIP CAP,U 1000P-50B
C725	87-012-274-080		CHIP CAP,U 1000P-50B
C727	87-010-196-080		CHIP CAPACITOR,0.1-25
C728	87-010-248-080		CAP, ELECT 220-10V
C729	87-012-274-080		CHIP CAP,U 1000P-50B
C731	87-012-286-080		CAP, U 0.01-25
C733	87-010-987-080		C-CAP,S 1500P-50 CH
C734	87-010-987-080		C-CAP,S 1500P-50 CH
C735	87-010-987-080		C-CAP,S 1500P-50 CH
C736	87-010-987-080		C-CAP,S 1500P-50 CH
C737	87-A10-592-080		C-CAP,S 0.015-50 J B
C738	87-A10-592-080		C-CAP,S 0.015-50 J B
C751	87-012-365-080		C-CAP,S 0.027-25VBK
C752	87-012-365-080		C-CAP,S 0.027-25VBK
C756	87-012-286-080		CAP, U 0.01-25
C757	87-012-188-080		C-CAP,U 47P-50 CH
C758	87-012-167-080		C-CAP,U 5P-50 CH
C763	87-010-829-080		CAP, U 0.047-16
C764	87-012-337-080		C-CAP,U 56P-50 CH
C765	87-012-286-080		CAP, U 0.01-25
C768	87-012-286-080		CAP, U 0.01-25
C769	87-010-260-080		CAP, ELECT 47-25V
C770	87-010-829-080		CAP, U 0.047-16
C771	87-010-383-080		CAP, ELECT 33-25V
C772	87-010-829-080		CAP, U 0.047-16
C773	87-010-196-080		CHIP CAPACITOR,0.1-25
C774	87-010-263-080		CAP, ELECT 100-10V
C775	87-010-404-080		CAP, ELECT 4.7-50V
C776	87-012-286-080		CAP, U 0.01-25
C777	87-010-400-080		CAP, ELECT 0.47-50V
C778	87-010-401-080		CAP, ELECT 1-50V
C779	87-010-401-080		CAP, ELECT 1-50V
C780	87-010-196-080		CHIP CAPACITOR,0.1-25
C781	87-010-405-080		CAP, ELECT 10-50V
C782	87-010-405-080		CAP, ELECT 10-50V
C783	87-012-286-080		CAP, U 0.01-25
C784	87-012-286-080		CAP, U 0.01-25
C785	87-010-401-080		CAP, ELECT 1-50V
C786	87-010-401-080		CAP, ELECT 1-50V
C789	87-012-275-080		C-CAP,U 1200P-50 B
C790	87-012-275-080		C-CAP,U 1200P-50 B
C791	87-010-405-080		CAP, ELECT 10-50V
C793	87-012-273-080		C-CAP,U 820P-50 B
C794	87-010-406-080		CAP, ELECT 22-50
C795	87-010-596-080		CAP, S 0.047-16
C796	87-010-403-080		CAP, ELECT 3.3-50V
C799	87-010-829-080		CAP, U 0.047-16
C812	87-012-286-080		CAP, U 0.01-25
C820	87-010-260-080		CAP, ELECT 47-25V
C821	87-012-286-080		CAP, U 0.01-25
C822	87-012-286-080		CAP, U 0.01-25
C823	87-012-286-080		CAP, U 0.01-25
C828	87-010-196-080		CHIP CAPACITOR,0.1-25
C829	87-010-196-080		CHIP CAPACITOR,0.1-25
C959	87-010-196-080		CHIP CAPACITOR,0.1-25
C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C961	87-012-170-080		C-CAP,U 8P-50 CH
C963	87-010-196-080		CHIP CAPACITOR,0.1-25

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
CF801	87-008-261-010		FILTER, SFE10.7MA5-A
CF802	87-008-261-010		FILTER, SFE10.7MA5-A
CN701	87-A60-700-010		CONN,13P H GRY TUC-P13X-C1
FFE801	A8-8ZA-190-030		8ZA-1 FEUNM
J801	87-A60-702-010		TERMINAL,ANT 4P CJ-9036
L771	87-A50-266-010		COIL,FM DET-2N(TOK)
L772	87-A90-733-010		FLTR,PCFAZH-450 (TOK)
L981	87-NF4-650-010		COIL,AM PACK 4N(TOK)
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
DECK C.B			
CON105	87-099-753-080		CONN,11P H 9604<U>
CON105	87-099-756-019		CONN,15P 9604 S F<LH>
CON301	86-ZM3-604-219		CON ASSY,3P-PB<U>
CON351	86-ZM3-605-119		CON ASSY,8P-RPB<U>
SFR1	87-024-581-019		SFR,3.3K DIA 6H
SOL1	82-ZM1-618-410		SOL ASSY,27
SOL2	82-ZM1-618-410		SOL ASSY,27
SW1	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW2	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW3	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW4	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW4	87-036-110-019		SW,MICRO SPPB62<LH>
SW5	87-A90-248-019		SW,MICRO ESE11SH2CXQ<U>
SW5	87-036-110-019		SW,MICRO SPPB62<LH>
SW6	87-036-110-019		SW,MICRO SPPB62<LH>
SW8	87-A90-248-019		SW,MICRO ESE11SH2CXQ<LH>
SW9	87-A90-248-019		SW,MICRO ESE11SH2CXQ<LH>
W1	82-ZM3-601-019		RBN,CORD,4P-75
HEAD-1 C.B			
	85-ZM3-602-010		PWB,FLEX A<LH>
HEAD-2 C.B			
	85-ZM3-602-010		PWB,FLEX A<LH>
CON351	87-NF6-616-010		CONN ASSY,8P-RPB<LH>

TRANSISTOR ILLUSTRATION



2SA1235 CMBT5551
2SC3052 CMBT5401
2SD1306 RT1N141C
2SC3906 RT1P141C
KTA1298 RT1P441C



E C B

CC5551
CSA1585



B C E

2SD2495
2SB1626



E C B

2SC4115



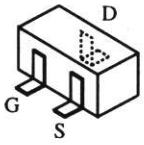
B C E

2SB1370
2SD1933
2SB1342



E C B

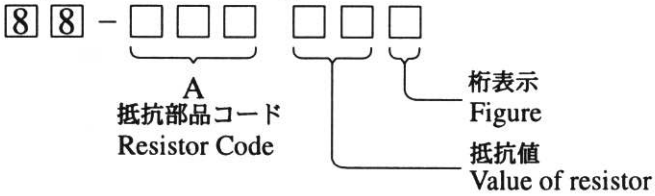
KTA1266
KTC3198



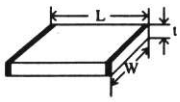
2SK2158

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

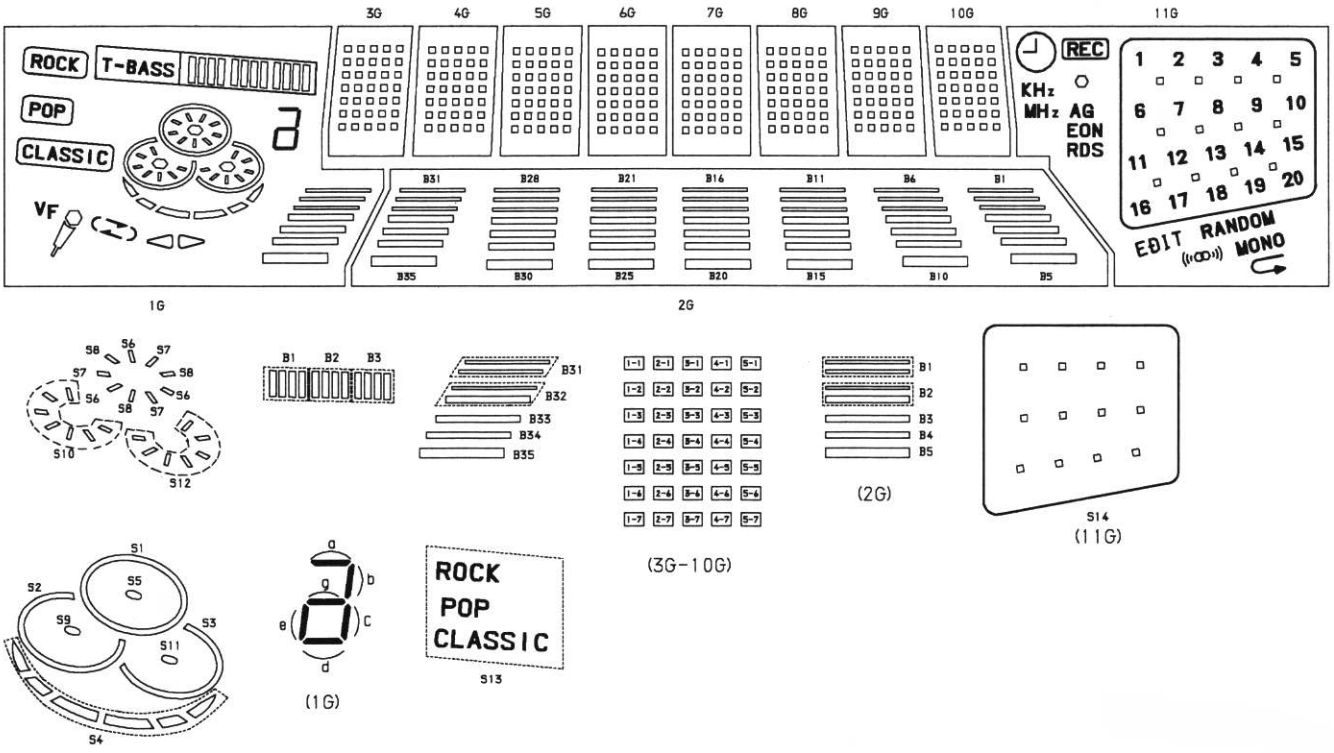


チップ抵抗
Chip resistor

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 : A 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

FL GRID ASSIGNMENT / ANODE CONNECTION

GRID ASSIGNMENT

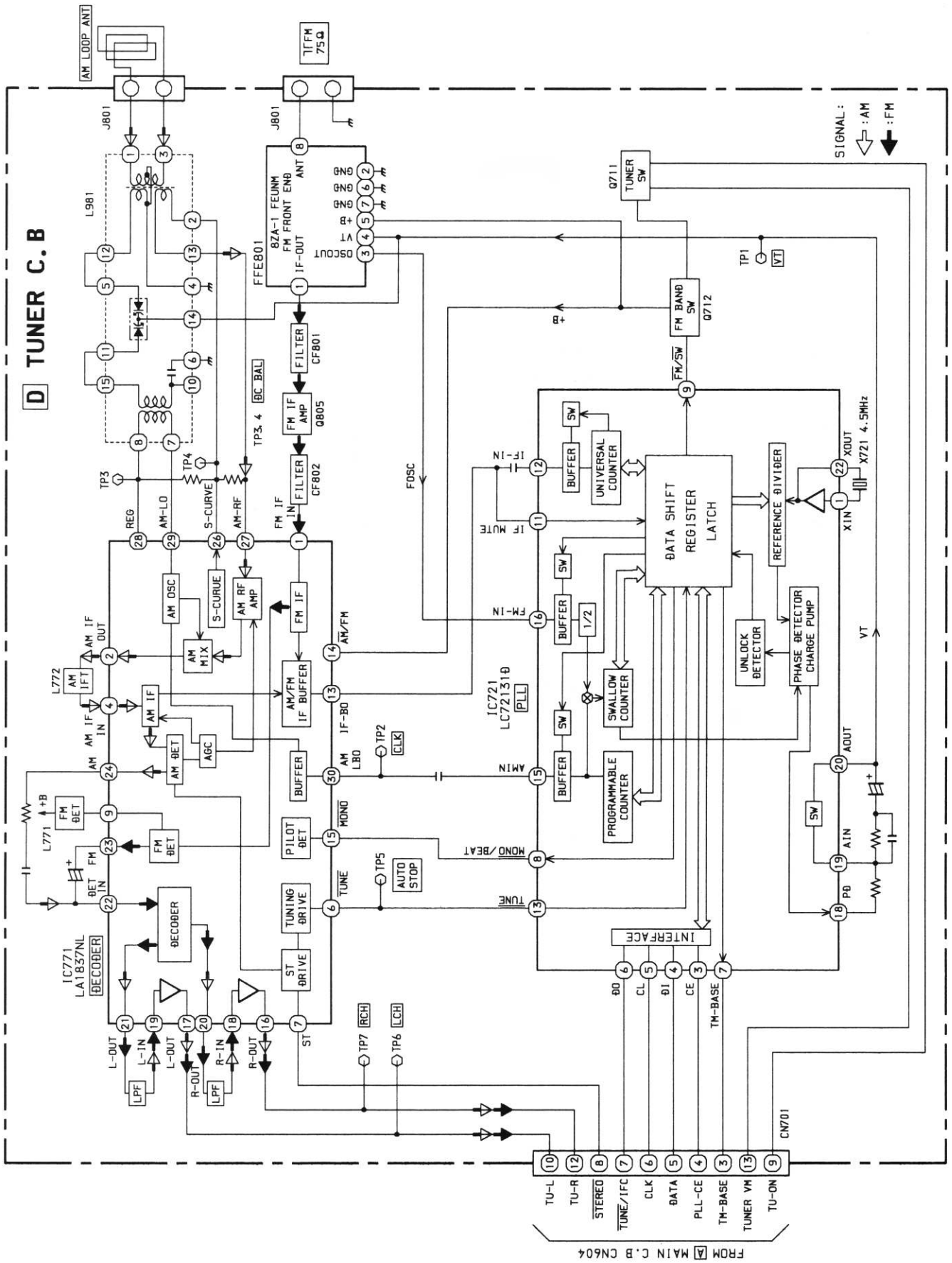


ANODE CONNECTION

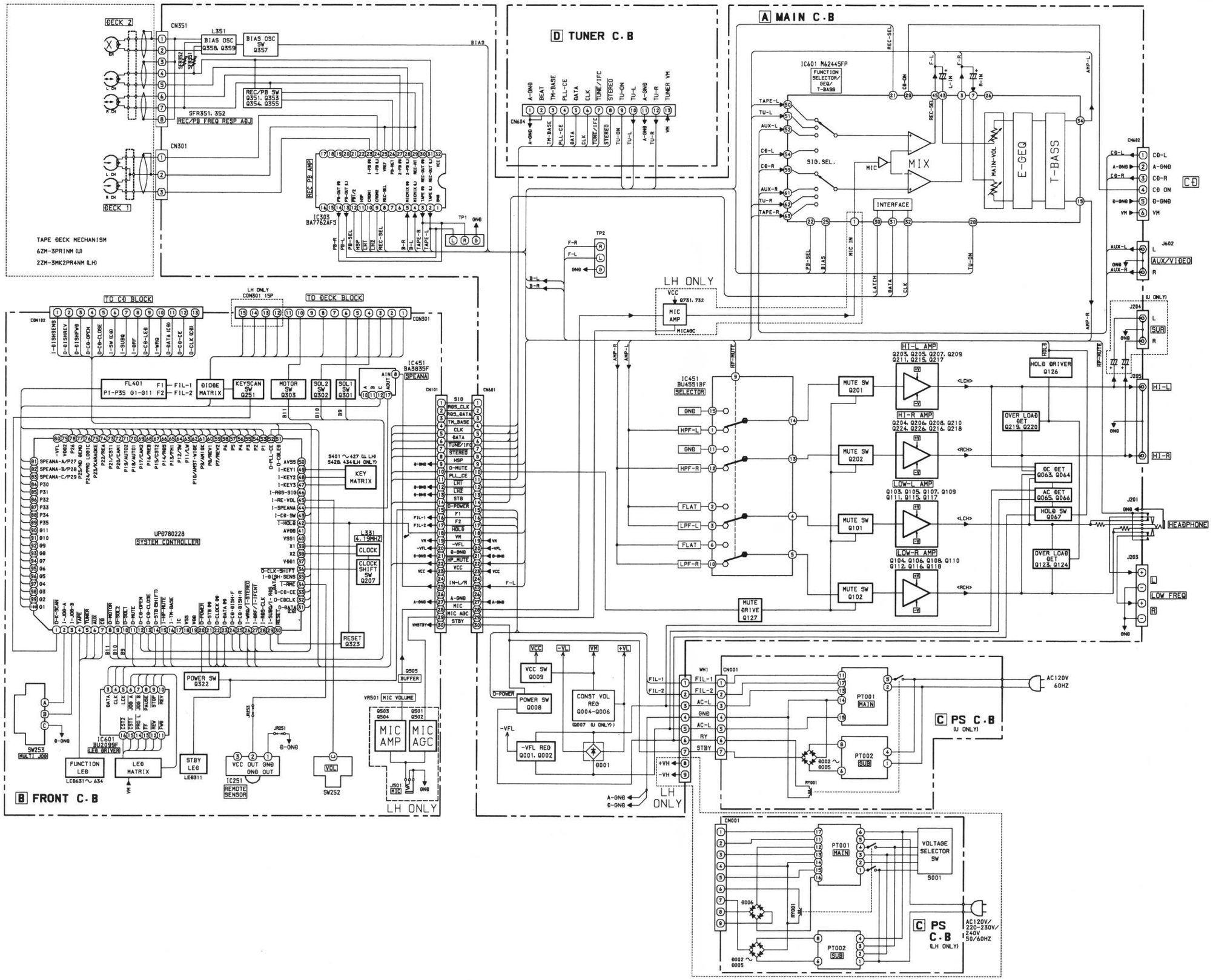
	1G	2G	3G-10G	11G
P1	S13	B35	1-1	
P2		B30	2-1	**MONO**
P3		B25	3-1	**RANDOM**
P4		B20	4-1	
P5		B15	5-1	**EDIT**
P6		B10	1-2	
P7		B5	2-2	
P8		B34	3-2	**KHz**
P9		B29	4-2	**MHz**
P10		B24	5-2	
P11	S4	B19	1-3	**AG**
P12	S2	B14	2-3	**EON**
P13	S10	B9	3-3	**RDS**
P14	S9	B4	4-3	S14
P15	S3	B33	5-3	20
P16	S12	B28	1-4	19
P17	S11	B23	2-4	18
P18	S1	B18	3-4	17

	1G	2G	3G-10G	11G
P19	S6	B13	4-4	16
P20	S7	B8	5-4	15
P21	S8	B3	1-5	14
P22	S5	B32	2-5	13
P23	**T-BASS**	B27	3-5	12
P24	B1	B22	4-5	11
P25	B2	B17	5-5	10
P26	B3	B12	1-6	9
P27	e	B7	2-6	8
P28	a, g, d	B2	3-6	7
P29	b	B31	4-6	6
P30	c	B26	5-6	5
P31	B35	B21	1-7	4
P32	B34	B16	2-7	3
P33	B33	B11	3-7	2
P34	B32	B6	4-7	1
P35	B31	B1	5-7	-

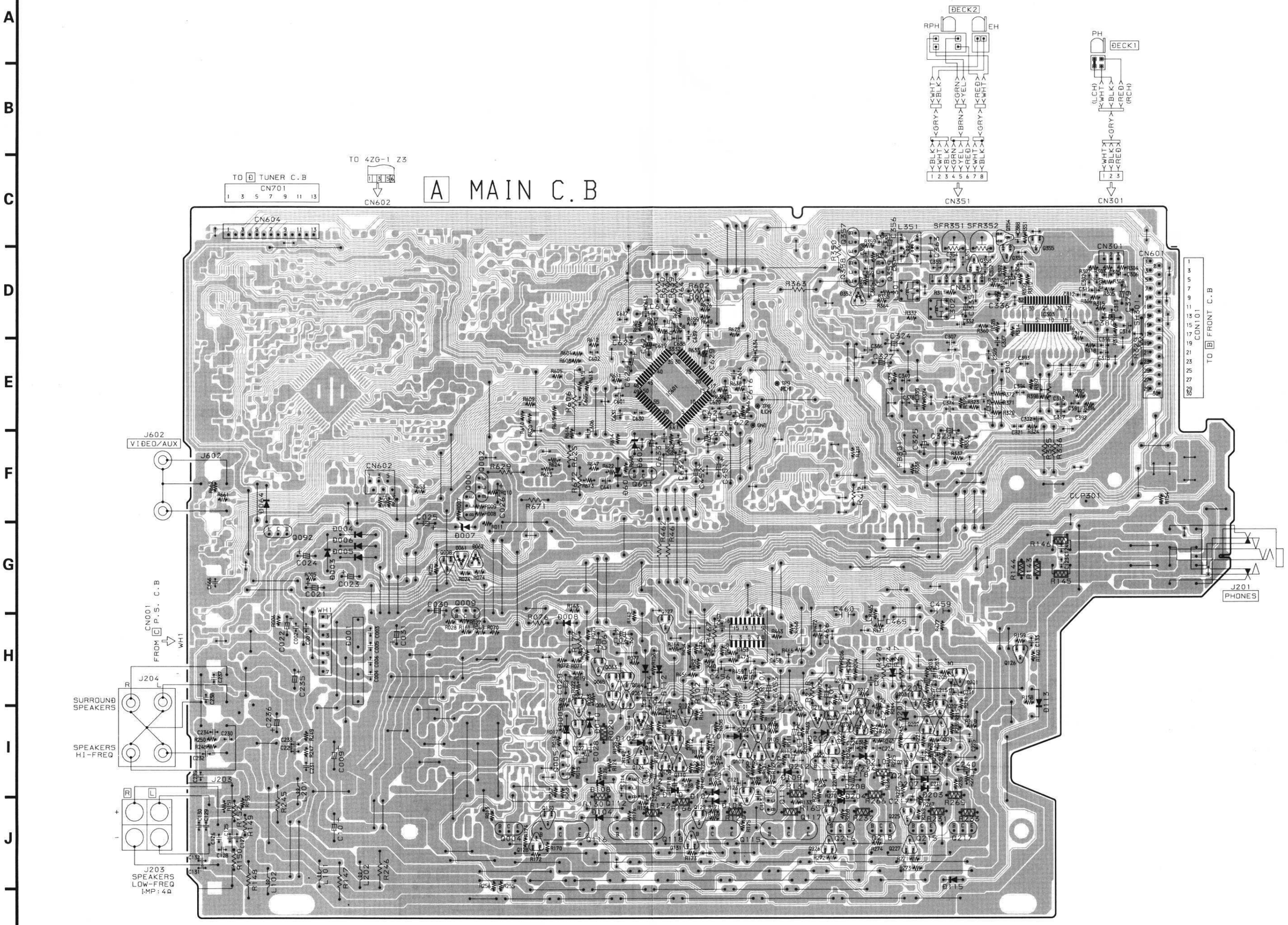
BLOCK DIAGRAM – 1 (TUNER)



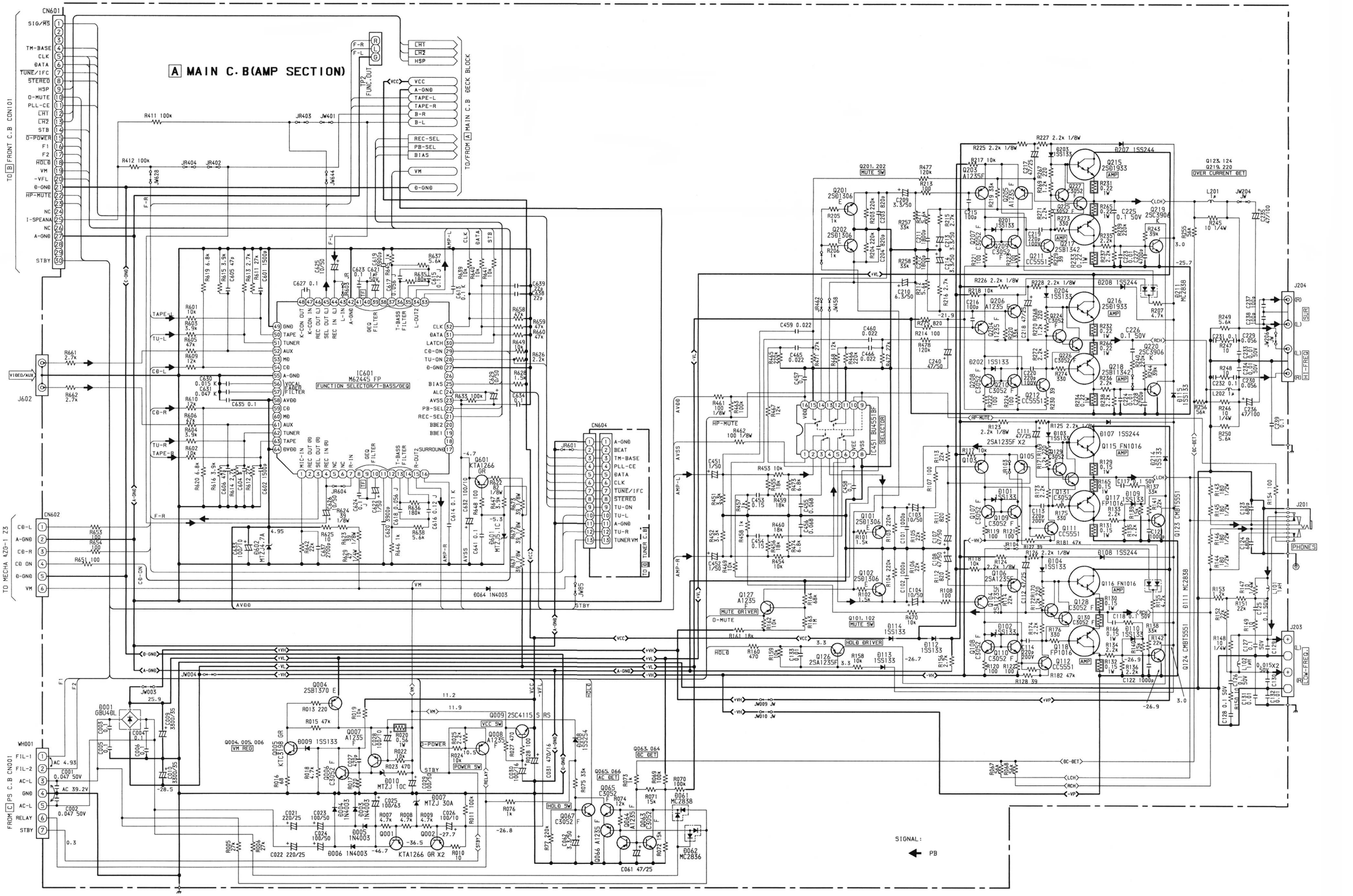
BLOCK DIAGRAM – 2 (MAIN / FRONT/ PS)



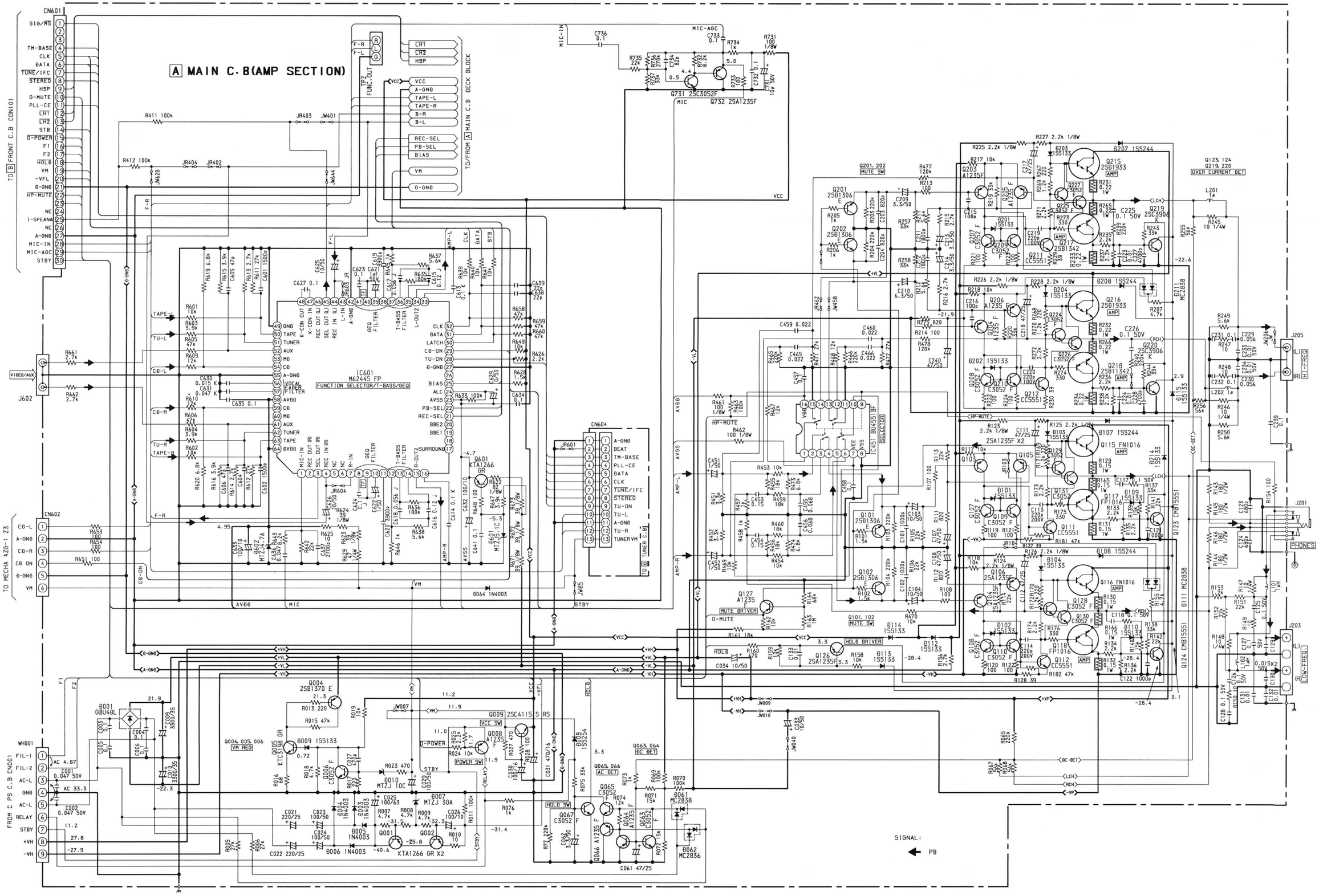
A MAIN C.B

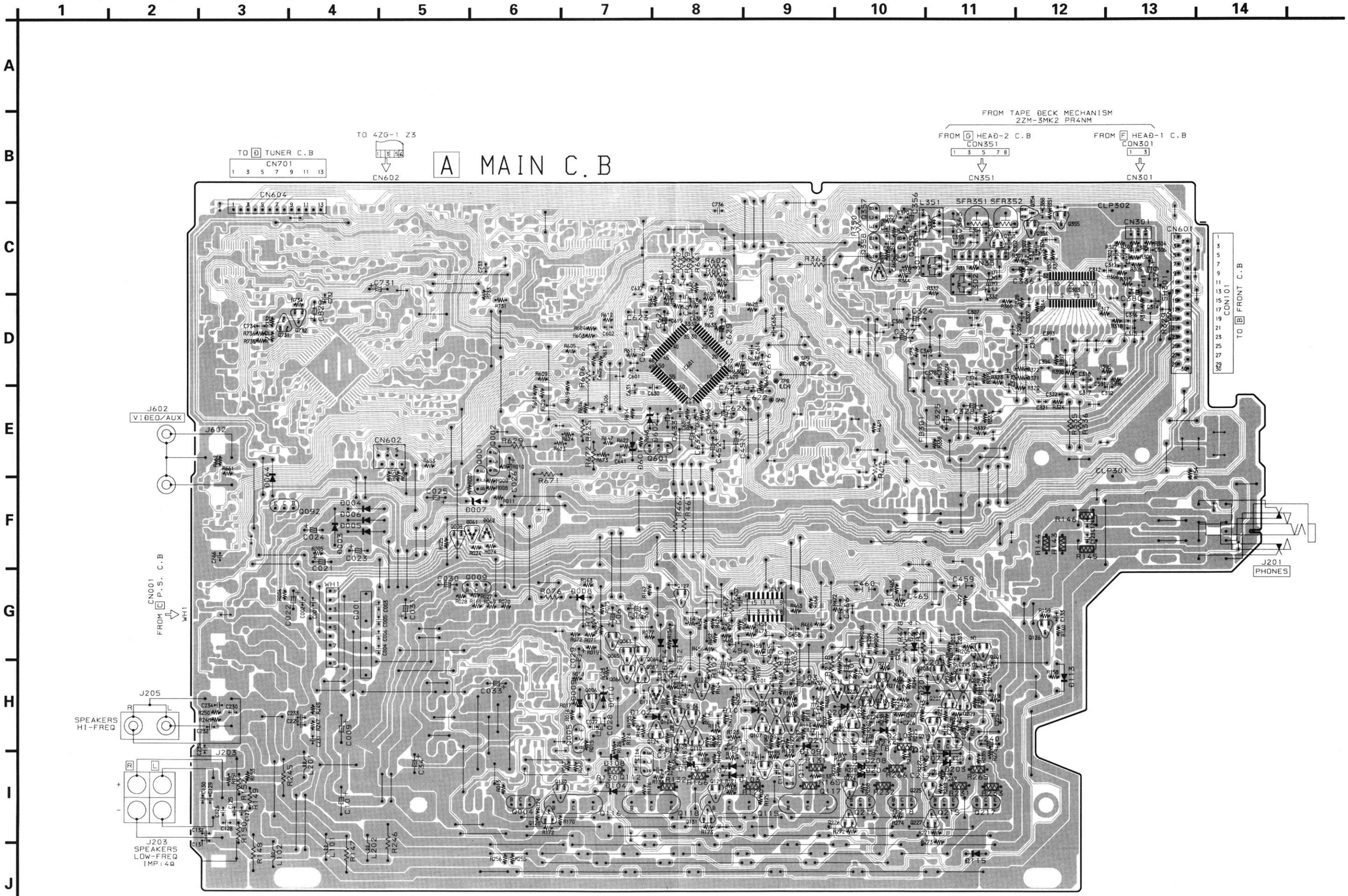

TO B TUNER C.B
CN701
TO 4ZG-1 Z3
CN602
DECK2
RPH
EH
PH
DECK1
CN351
CN301
CN604
SFR351 SFR352
CN601
TO B FRONT C.B
CON101
J602
VIDEO/AUX
CN001
FROM P.S. C.B
J204
SURROUND SPEAKERS
SPEAKERS HI-FREQ
J203
SPEAKERS LOW-FREQ IMP: 4Ω
J201
PHONES
CLP301

SCHEMATIC DIAGRAM – 1 (MAIN : U)

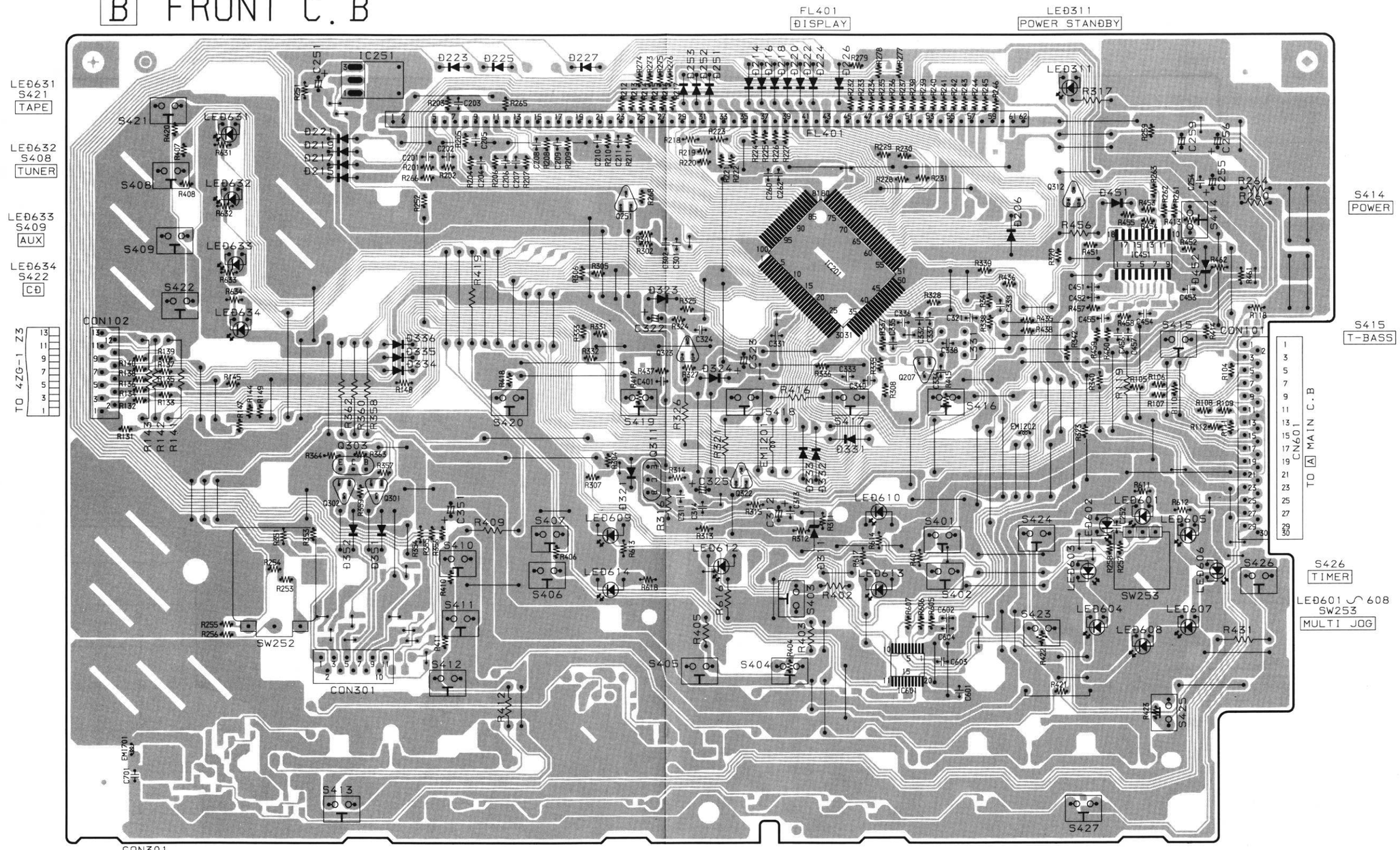


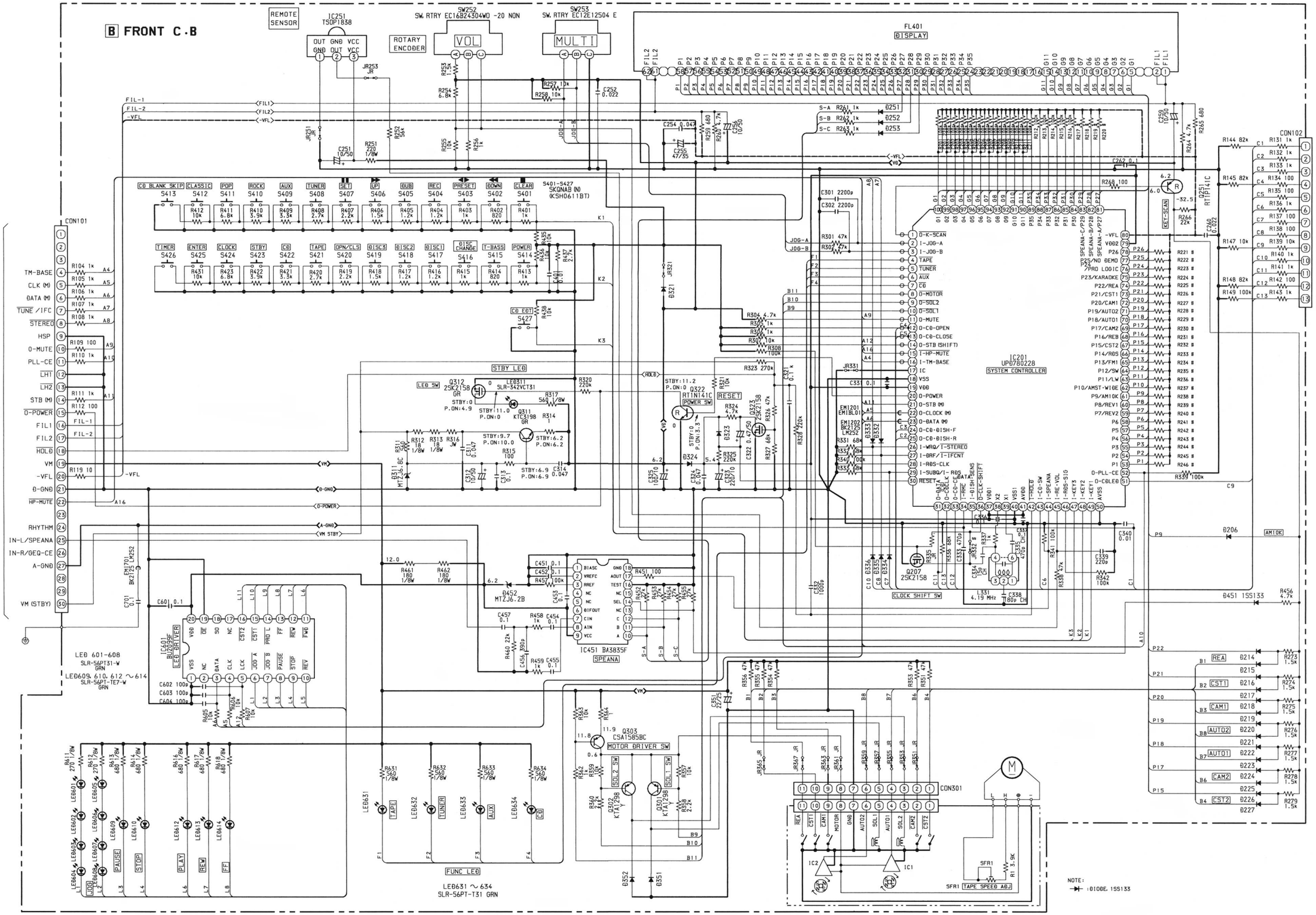
SCHEMATIC DIAGRAM – 2 (MAIN : LH)

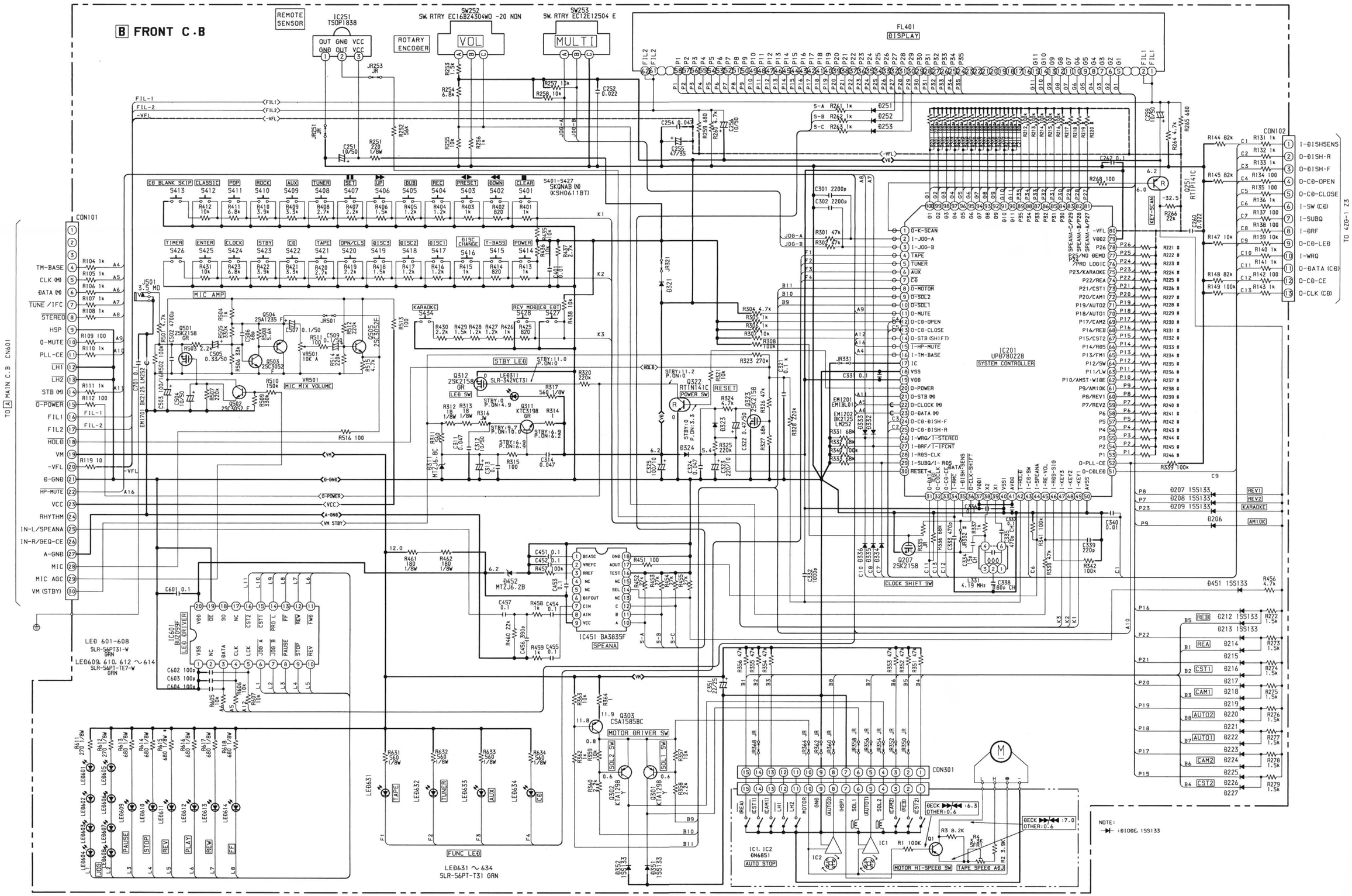



A MAIN C.B
TO D TUNER C.B
CN701
TO 4ZG-1 Z3
CN602
FROM TAPE DECK MECHANISM
2ZM-3MK2 PR4NM
FROM G HEAD-2 C.B
CON351
CN351
FROM F HEAD-1 C.B
CON301
CN301
CN604
CN601
TO B FRONT C.B
CON101
J602
VIDEO/AUX
J205
SPEAKERS
HI-FREQ
J203
SPEAKERS
LOW-FREQ
IMP:4Ω
CN001
FROM C P.S. C.B
J201
PHONES
SFR351 SFR352
CLP302
CLP301

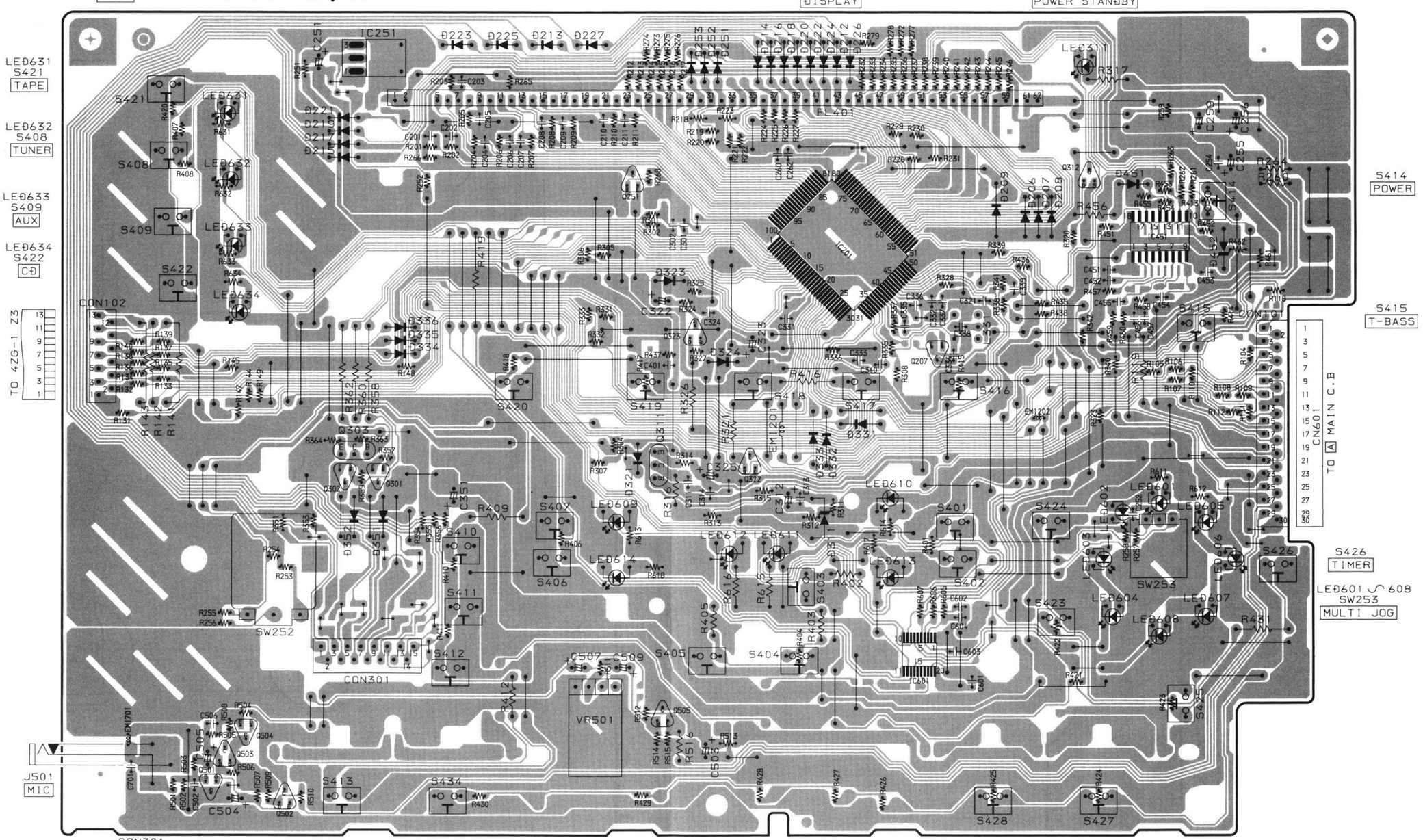
B FRONT C.B


FL401
ÐISPLAY
LEÐ311
POWER STANÐBY
LEÐ631
S421
TAPE
LEÐ632
S408
TUNER
LEÐ633
S409
AUX
LEÐ634
S422
CÐ
S414
POWER
S415
T-BASS
S426
TIMER
LEÐ601 ∽ 608
SW253
MULTI JOG
CON102
TO 4ZG-1 ZM
CON301
TO 6ZM-3PRINM
CN601
TO A MAIN C.B
SW252
S413
CÐ BLANK SKIP
S410
ROCK
S411
POP
S412
CLASSIC
S420
OPEN/CLOSE
S407
SET
S406
UP
S419
ÐISC 3
LEÐ609
PAUSE
LEÐ614
FF
S405
ÐUB
S418
ÐISC 2
LEÐ612
PLAY
S403
PRESET
S404
REC
S417
ÐISC 1
LEÐ610
STOP
LEÐ613
REW
S416
ÐISC CHANGE
S401
CLEAR
S402
ÐOWN
S424
CLOCK
S423
STBY
S427
CÐ EÐIT
S425
ENTER

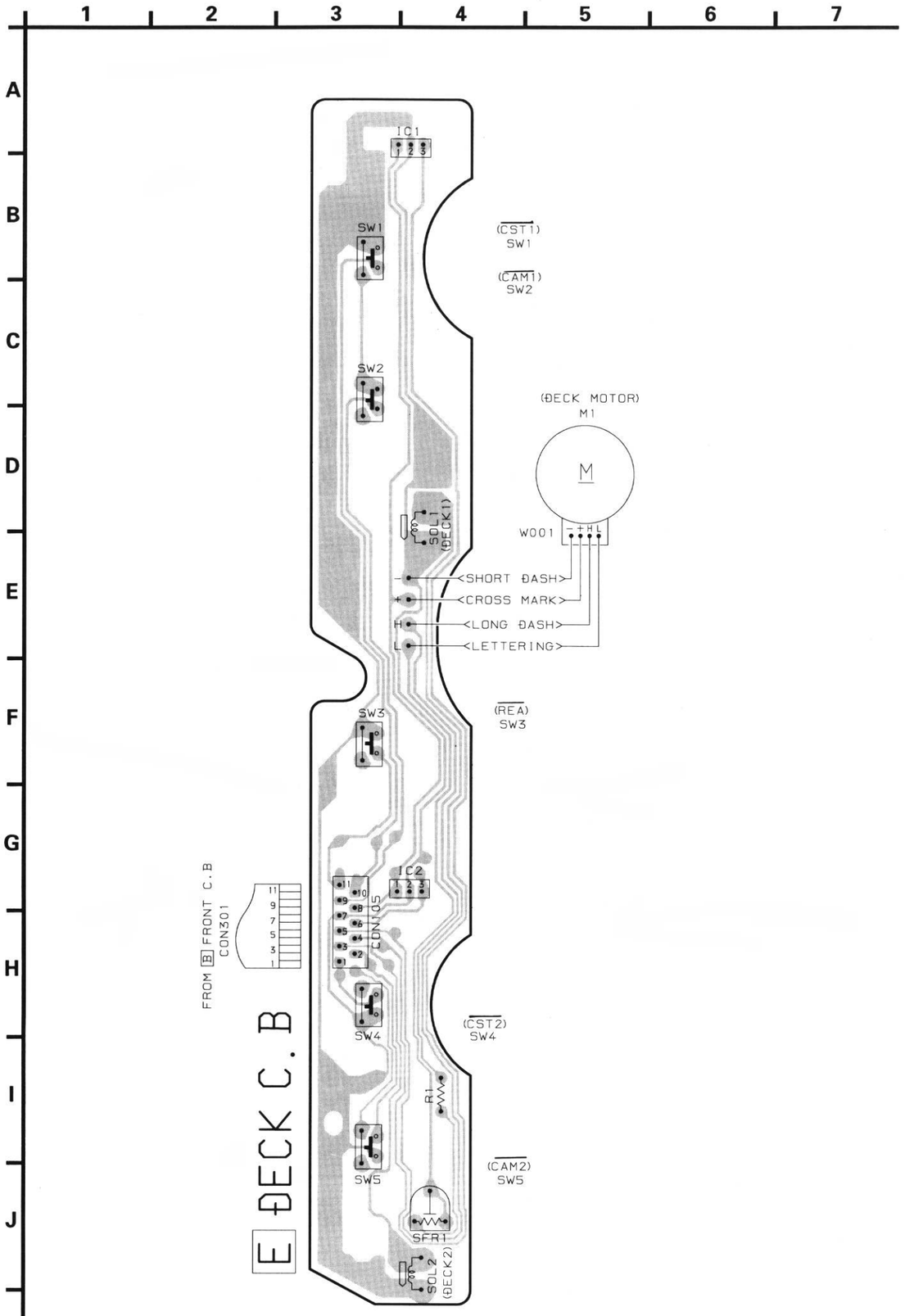

B FRONT C.B
REMOTE SENSOR
IC251 TSOP1838
OUT GND VCC
ROTARY ENCODER
SW252 SW RTRY EC16B24304WD -20 NON
VOL
SW253 SW RTRY EC12E12504 E
MULTI
FL401 DISPLAY
CD BLANK SKIP
CLASSIC
POP
ROCK
AUX
TUNER
SET
UP
SUB
REC
PRESET
DOWN
CLEAR
S401-S427 SKONAB (N) (KSH0611BT)
TIMER
ENTER
CLOCK
STBY
CD
TAPE
OPN/CLS
DISC3
DISC2
DISC1
DISC CHANGE
T-BASS
POWER
CD EDIT
CON101
TM-BASE
CLK (M)
DATA (M)
TUNE /IFC
STEREO
HSP
O-MUTE
PLL-CE
LH1
LH2
STB (M)
O-POWER
FIL1
FIL2
HOLD
VM
-VFL
Θ-GND
HP-MUTE
RHYTHM
IN-L/SPEANA
IN-R/GEQ-CE
A-GND
VM (STBY)
TO A MAIN C.B CN601
STBY LED
LED SW
Q312 2SK2158 GR
LED311 SLR-342VCT31
Q311 KTC3198 GR
POWER SW
Q322 RT1N141C
RESET
Q323 2SK2158
Q324 2SA1586
Q325 2SC4081
Q326 2SC4081
Q327 2SC4081
Q328 2SC4081
Q329 2SC4081
Q330 2SC4081
Q331 2SC4081
Q332 2SC4081
Q333 2SC4081
Q334 2SC4081
Q335 2SC4081
Q336 2SC4081
Q337 2SC4081
Q338 2SC4081
Q339 2SC4081
Q340 2SC4081
Q341 2SC4081
Q342 2SC4081
Q343 2SC4081
Q344 2SC4081


B FRONT C.B
REMOTE SENSOR
IC251 TSOP1838
OUT GND VCC
ROTARY ENCODER
SW252 SW. RTRY EC16BZ4504WO -20 NON
VOL
SW253 SW. RTRY EC12E12504 E
MULTI
FL401 DISPLAY
S401-S427 SKQNAB (N) (KSH0611BT)
CD BLANK SKIP S413
CLASSIC S412
POP S411
ROCK S410
AUX S409
TUNER S408
SET S407
UP S406
DUB S405
REC S404
PRESET S403
DOWN S402
CLEAR S401
TIMER S426
ENTER S425
CLOCK S424
STBY S423
CD S422
TAPE S421
OPN/CLS S420
DISC3 S419
DISC2 S418
DISC1 S417
DISC CHANGE S416
T-BASS S415
POWER S414
CON101
TO A MAIN C.B CN601
MIC AMP
VR501 MIC MIX VOLUME
KARAOKE
REV MOD
CD EDT
STBY LED
LED631 ~ 634 SLR-56PT-T31 GRN
FUNC LED
LED 601-608 SLR-56PT31-W GRN
LED609, 610, 612 ~ 614 SLR-56PT-TE7-W GRN
IC401 BU2099F LED DRIVER
IC451 BA3835F SPEANA
MOTOR DRIVER SW
IC201 UPD780228 SYSTEM CONTROLLER
CON301
CON102
CLOCK SHIFT SW
MOTOR HI-SPEED SW
TAPE SPEED ADJ
AUTO STOP
IC1, IC2 6N6851
TO 42G-I Z3
NOTE:

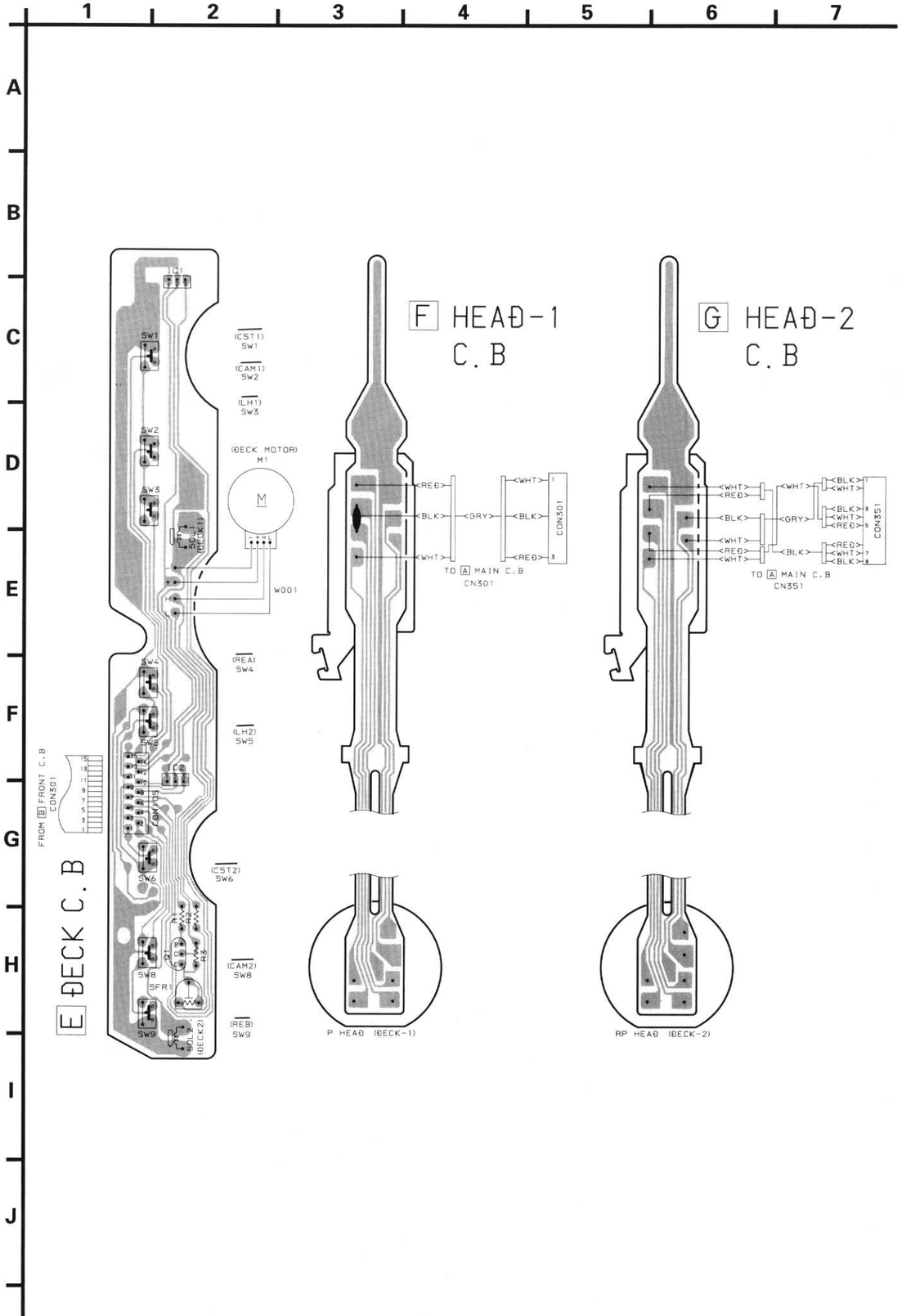
B FRONT C.B

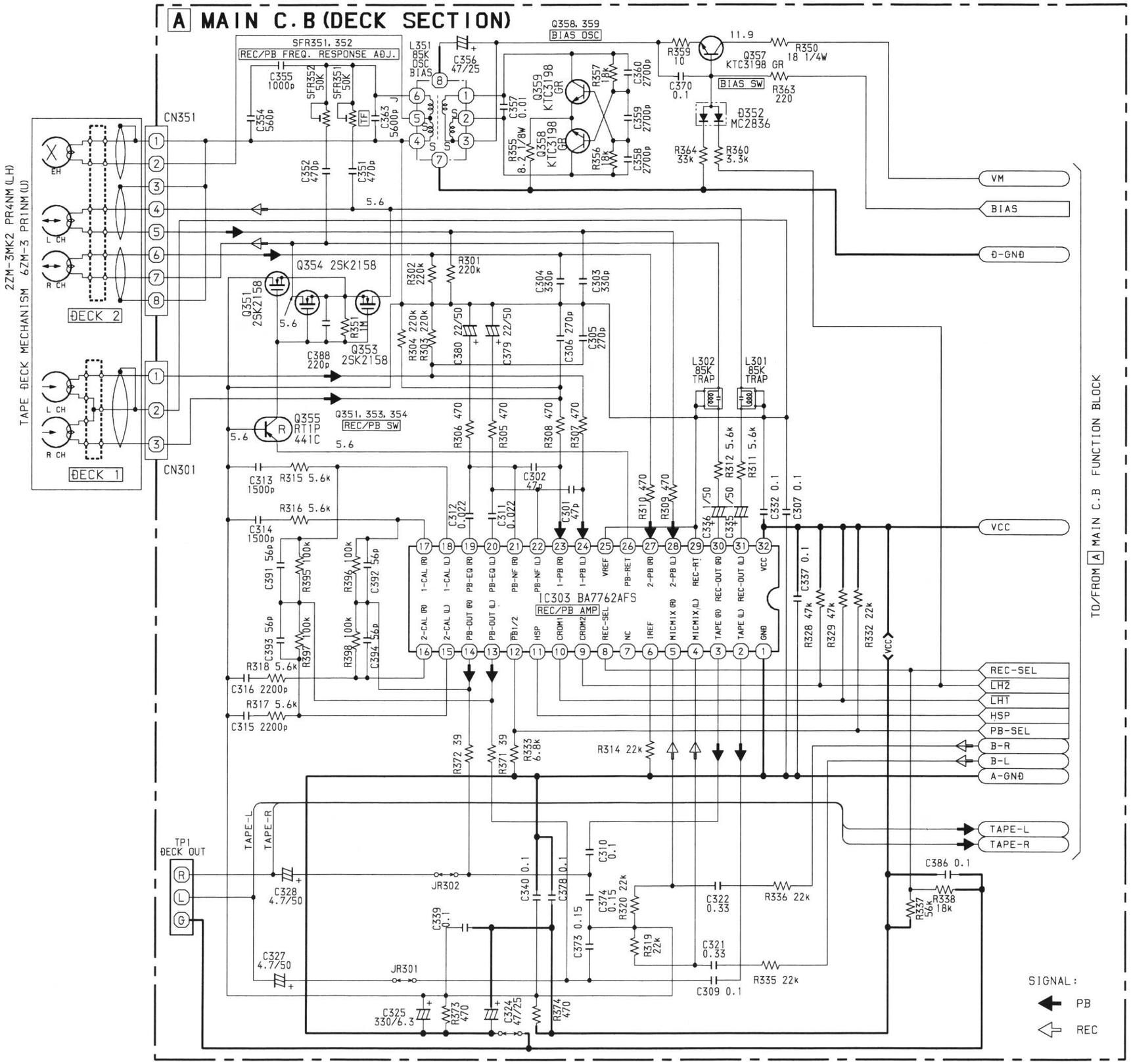

FL401
DISPLAY
LED311
POWER STANDBY
LED631
S421
TAPE
LED632
S408
TUNER
LED633
S409
AUX
LED634
S422
CD
S414
POWER
S415
T-BASS
CON102
TO 4ZG-1 ZJ
TO A MAIN C.B CN601
S426
TIMER
LED601 ~ 608
SW253
MULTI JOG
SW252
J501
MIC
C504
VR501
CON301
TO 2ZM-3MK2 PR4NM
S413
CD BLANK SKIP
S410
ROCK
S411
POP
S412
CLASSIC
S420
OPEN/CLOSE
S434
KARAOKE
S407
SET
S406
UP
S419
DISC 3
LED609
PAUSE
LED614
FF
S405
DUB
S418
DISC 2
LED612
PLAY
S403
PRESET
S404
REC
S417
DISC 1
LED610
STOP
LED613
REW
S416
DISC CHANGE
S401
CLEAR
S402
DOWN
S424
CLOCK
S423
STBY
S428
REV MOD
S427
CD EDIT
S425
ENTER

WIRING – 5 (DECK : U)

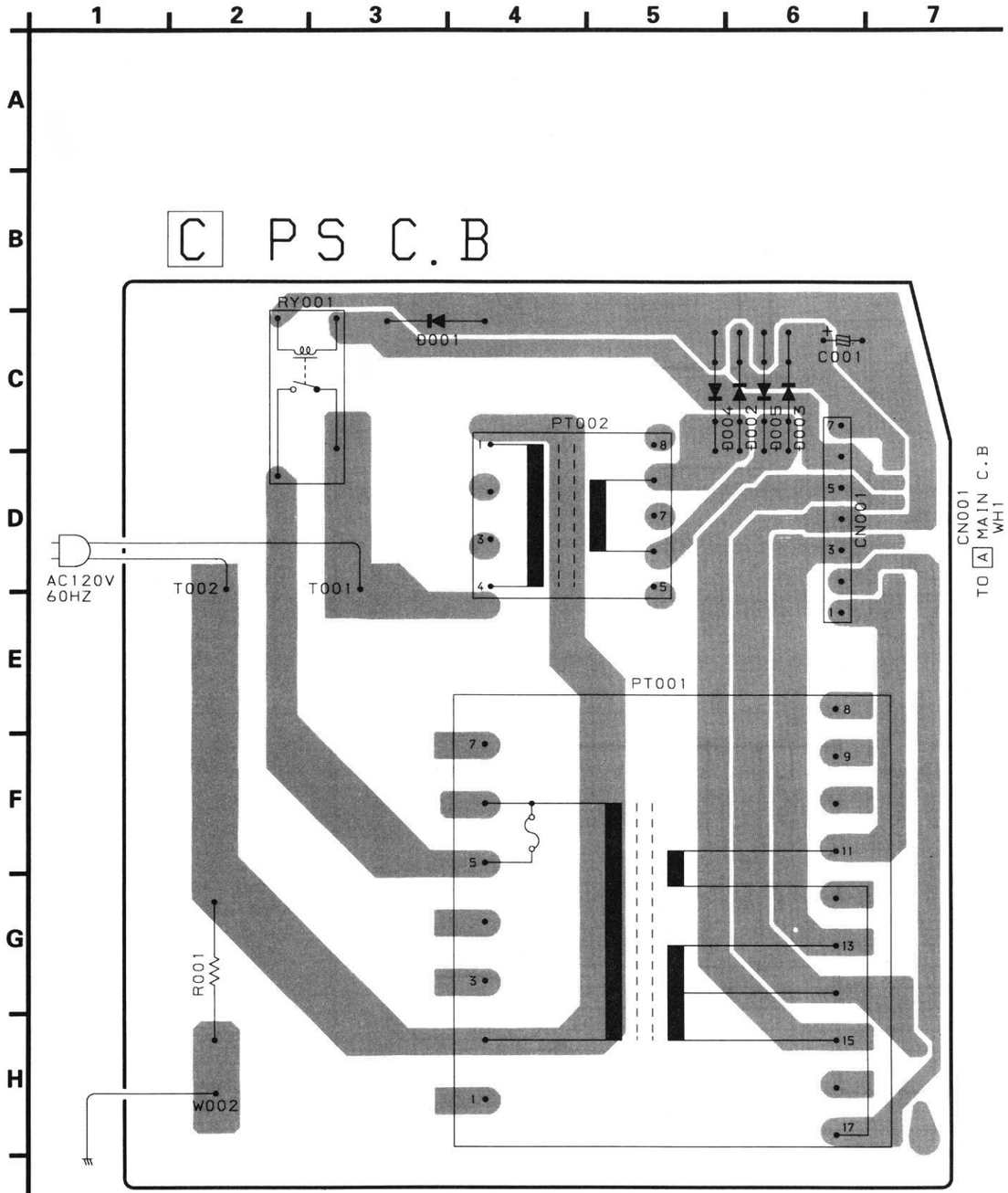


WIRING – 6 (DECK : LH)

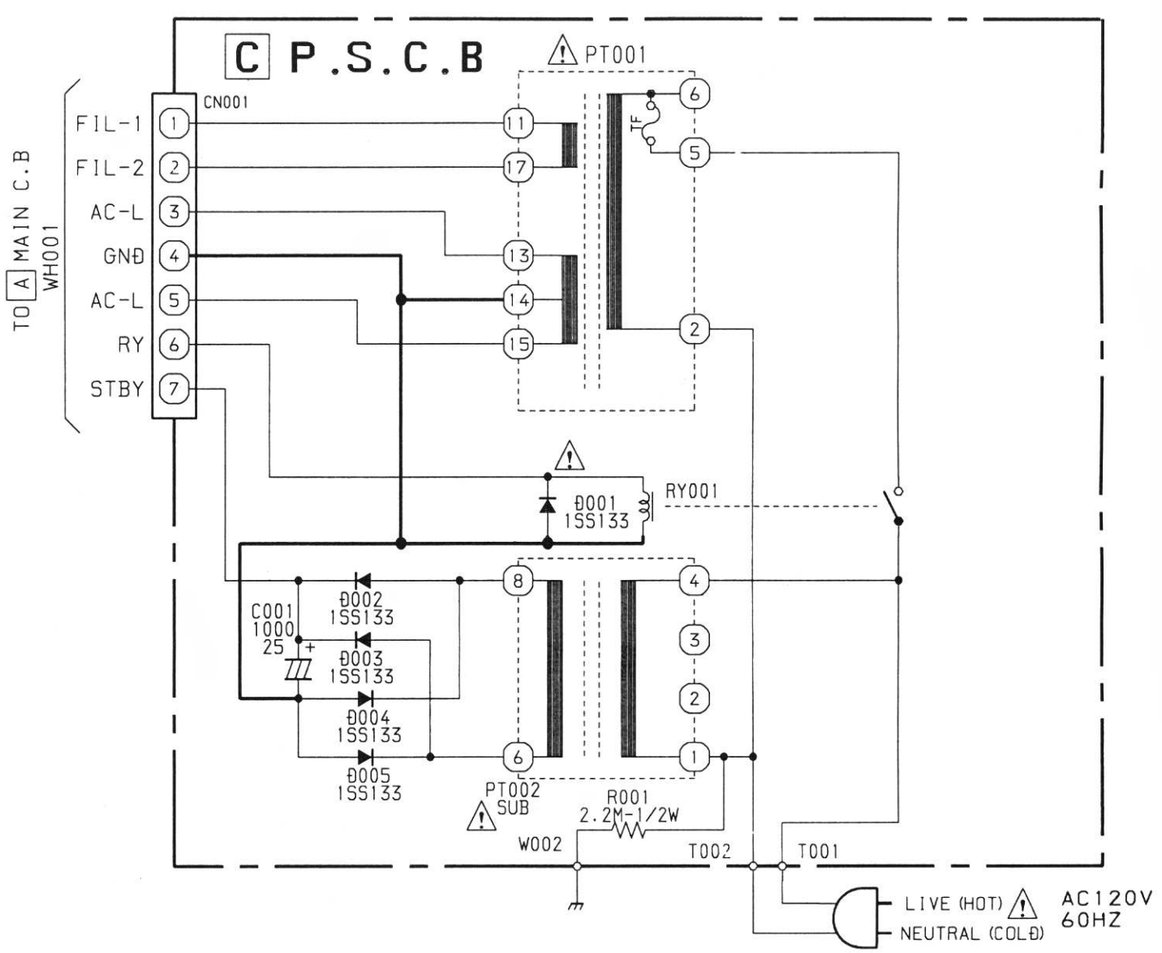



A MAIN C.B (DECK SECTION)
2ZM-3MK2 PR4NM (LH)
TAPE ĐECK MECHANISM 6ZM-3 PR1NM (U)
ĐECK 2
ĐECK 1
CN351
CN301
SFR351, 352
REC/PB FREQ. RESPONSE ADJ.
Q358, 359
BIAS OSC
Q357 KTC3198 GR
BIAS SW
Đ352 MC2836
Q354 2SK2158
Q351 2SK2158
Q353 2SK2158
Q355 RT1P 441C
Q351, 353, 354
REC/PB SW
L302 85K TRAP
L301 85K TRAP
IC303 BA7762AFS
REC/PB AMP
JR302
JR301
TP1
ĐECK OUT
VM
BIAS
Đ-GNĐ
VCC
REC-SEL
LH2
LHT
HSP
PB-SEL
B-R
B-L
A-GNĐ
TAPE-L
TAPE-R
TO/FROM A MAIN C.B FUNCTION BLOCK
SIGNAL:
PB
REC

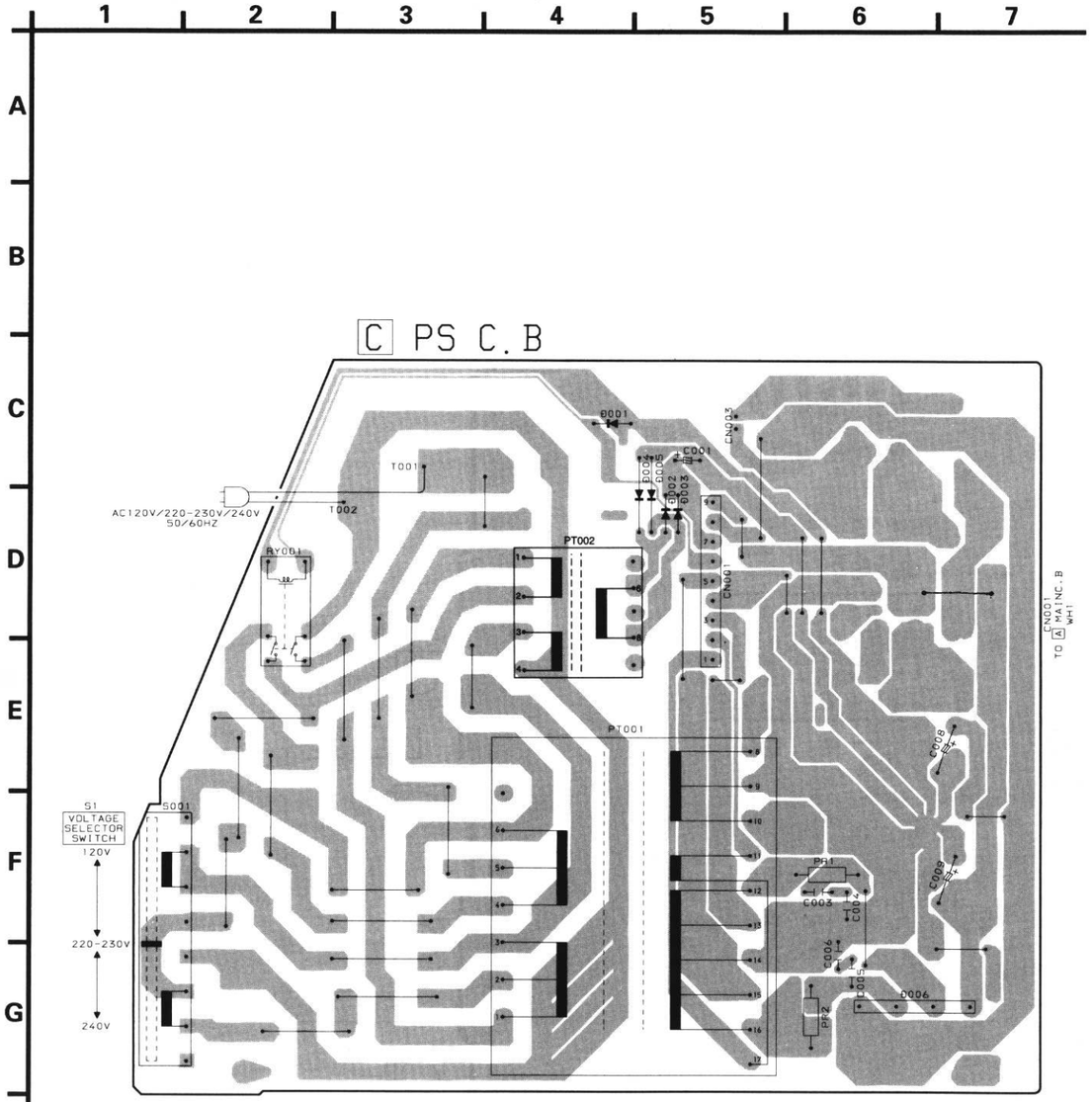
WIRING – 7 (PS : U)



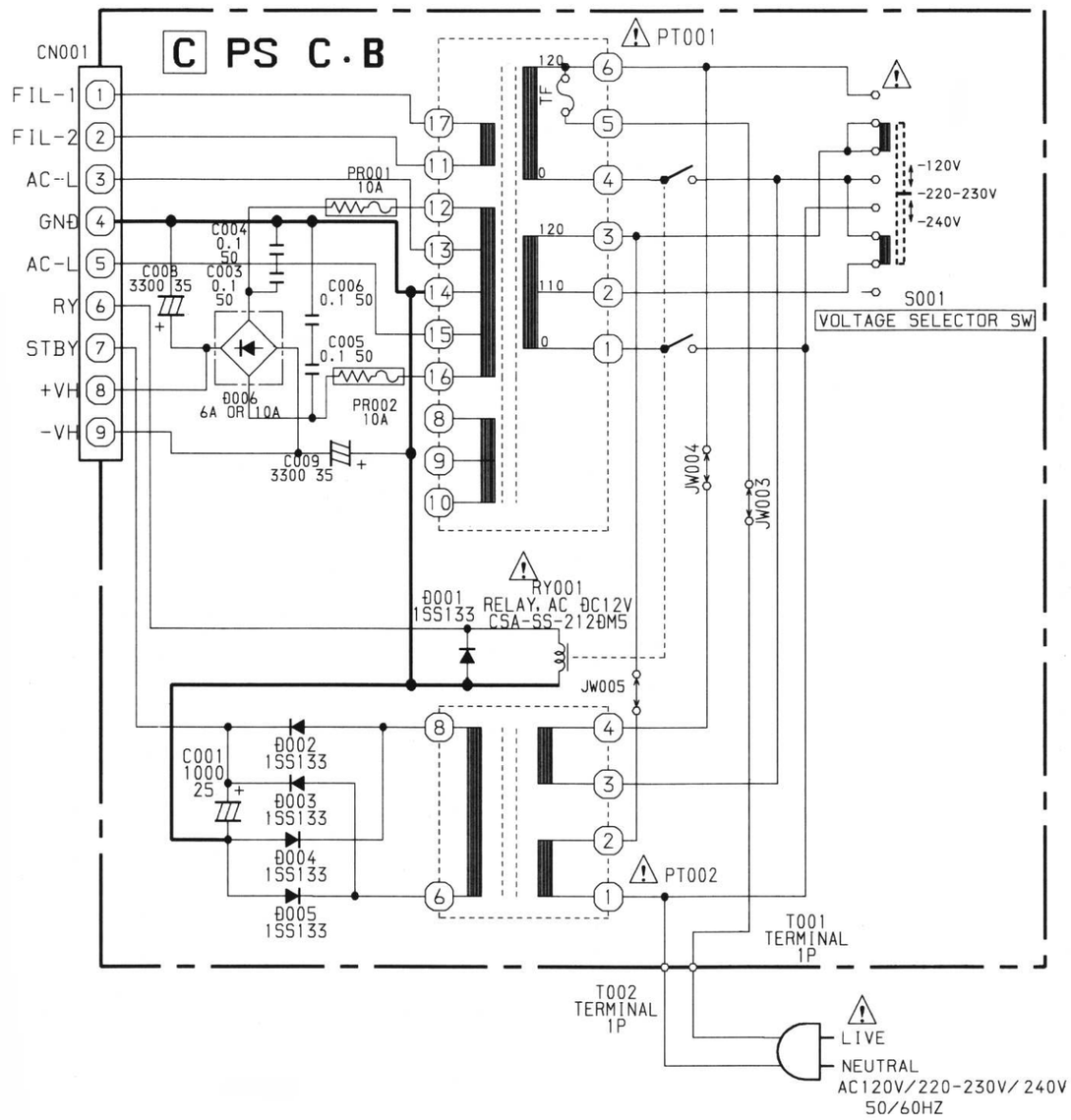
SCHEMATIC DIAGRAM – 6 (PS : U)



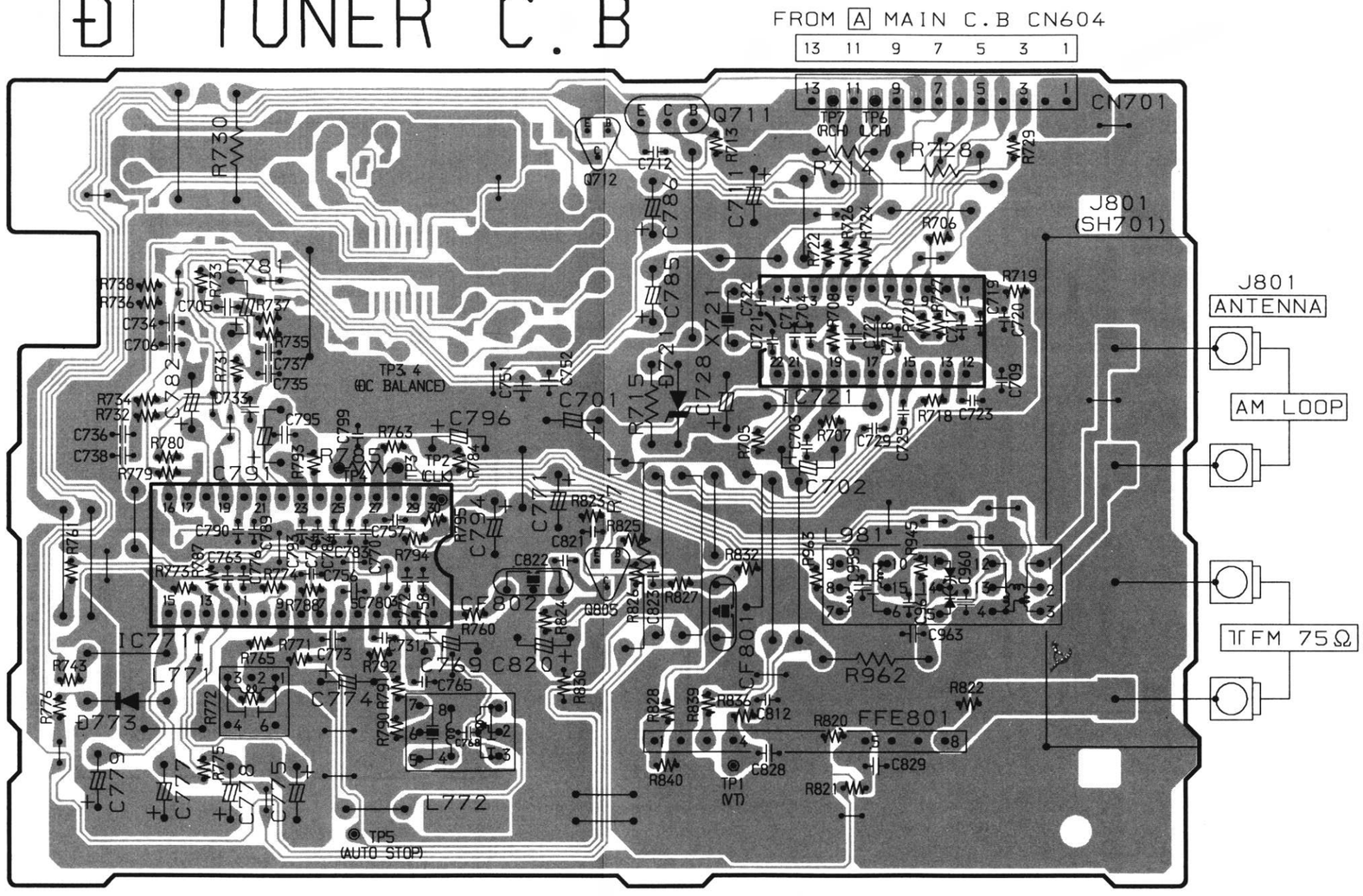
WIRING – 8 (PS : LH)



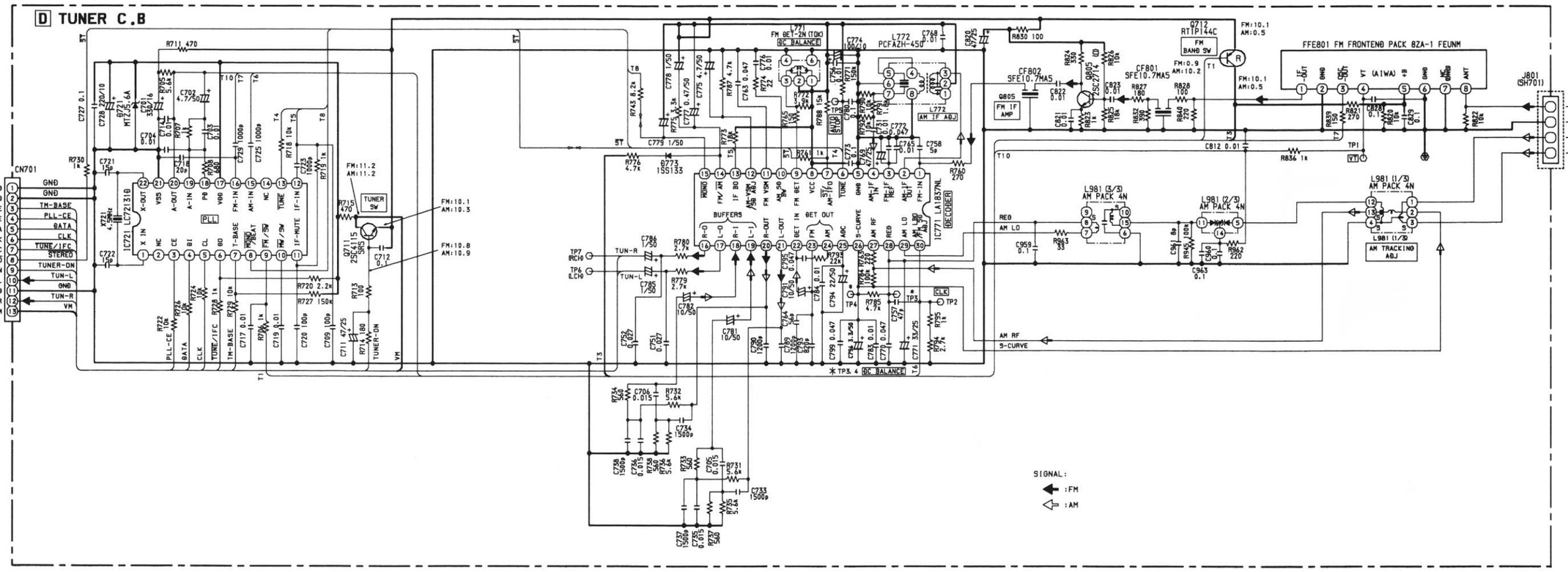
SCHEMATIC DIAGRAM – 7 (PS : LH)



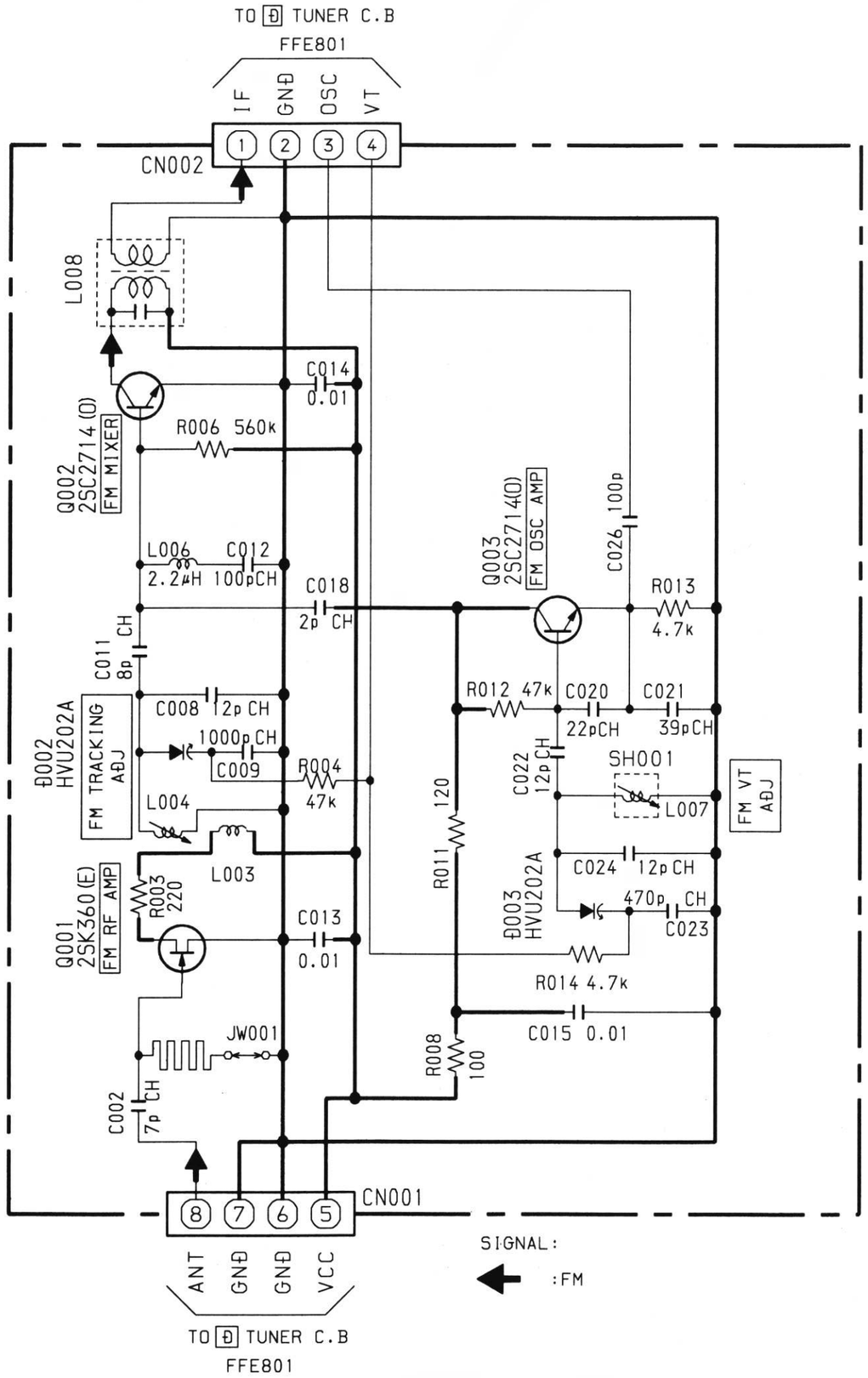
Ð TUNER C.B


FROM A MAIN C.B CN604
13 11 9 7 5 3 1
CN701
J801
(SH701)
J801
ANTENNA
AM LOOP
TFM 75Ω
TP3, 4
(DC BALANCE)
TP5
(AUTO STOP)
TP1
(VT)
TP7
(RCH)
TP6
(LCH)
IC721
FFE801
L981
L771
L772
D773
CF801
CF802
Q711
Q712
X721

SCHEMATIC DIAGRAM – 8 (TUNER)

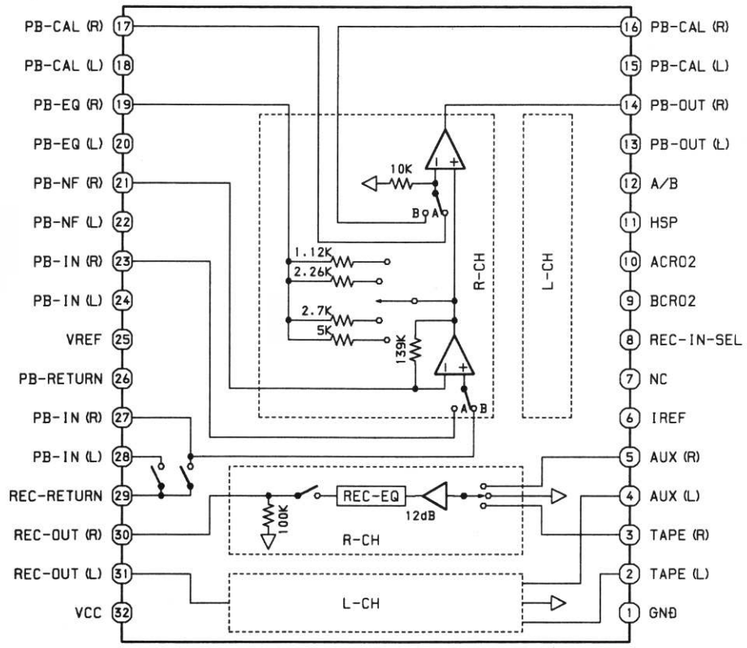


SCHEMATIC DIAGRAM – 9 (TUNER FRONT END)

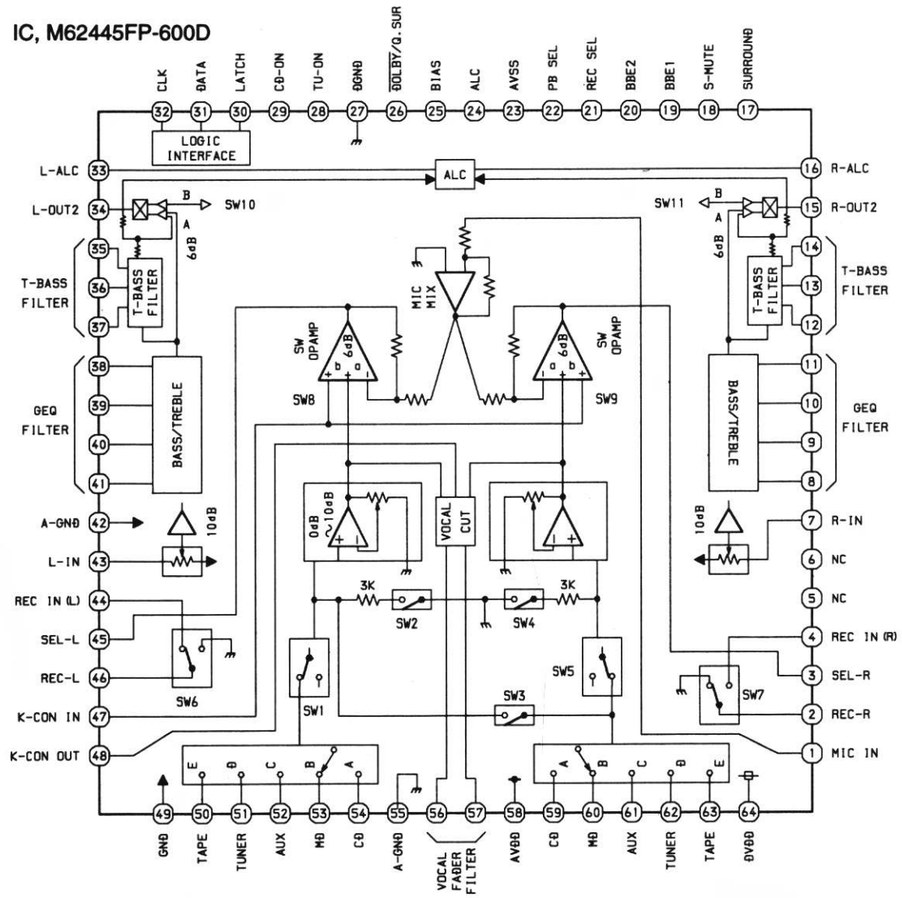


IC BLOCK DIAGRAM

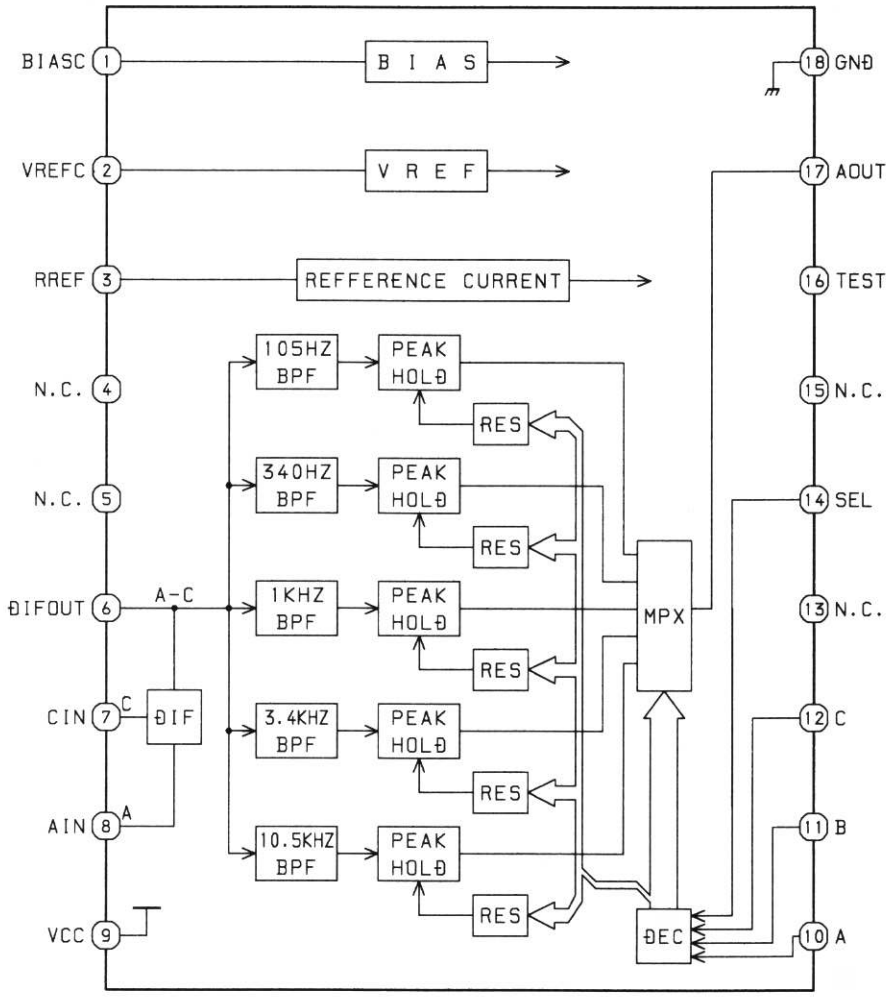
IC, BA7762AFS



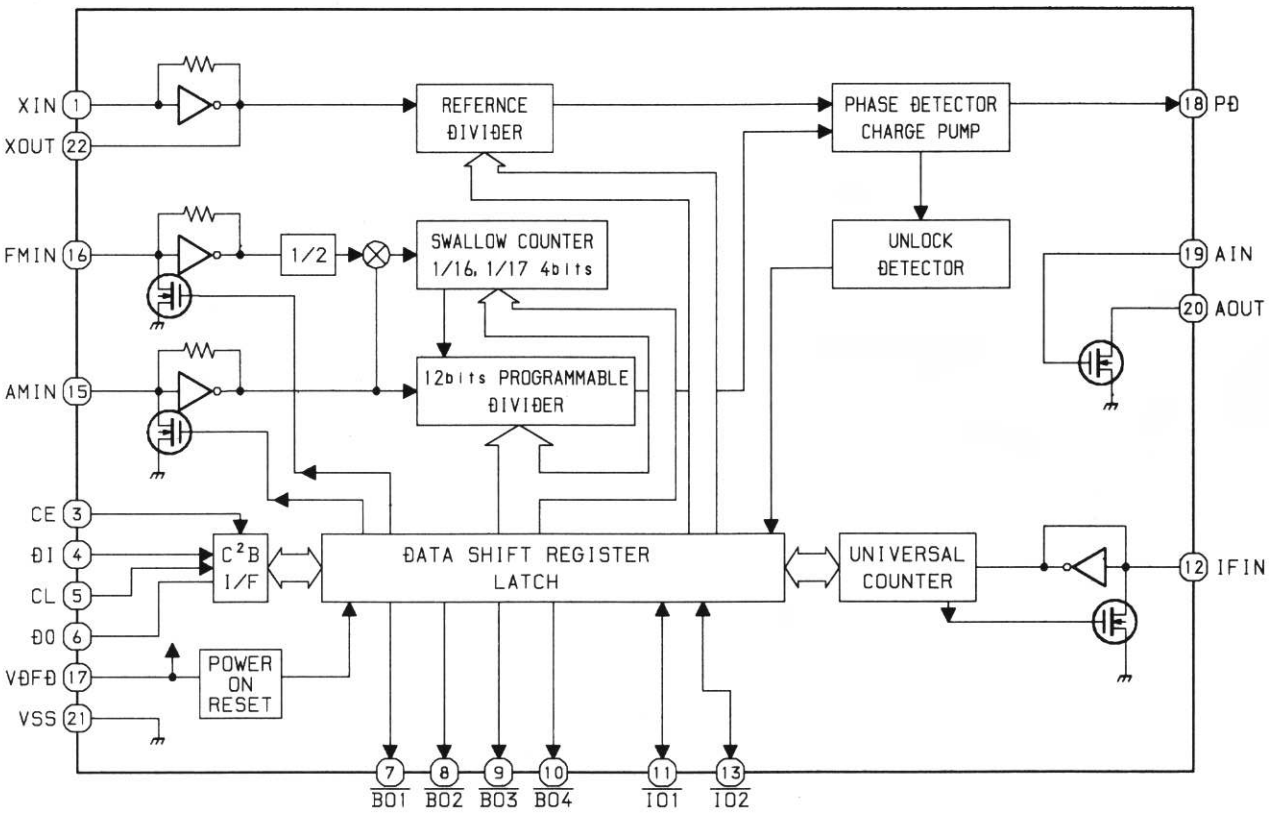
IC, M62445FP-600D



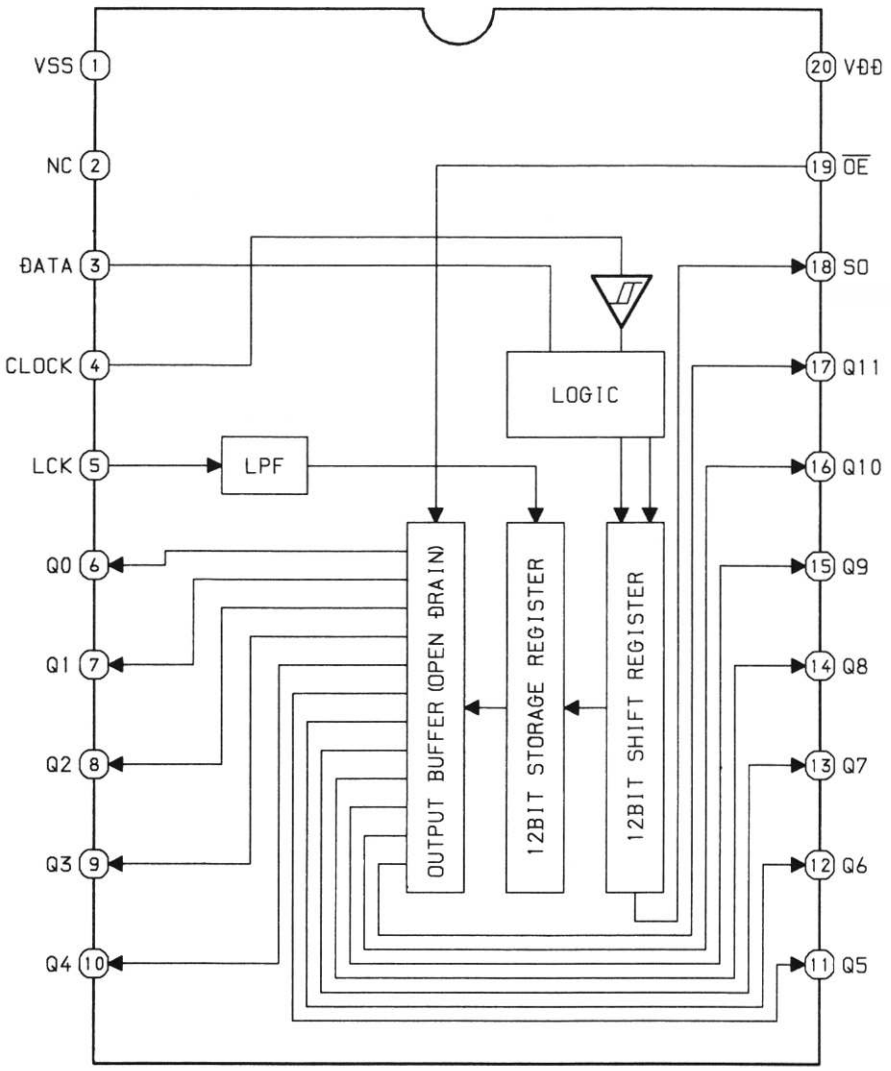
IC, BA3835F



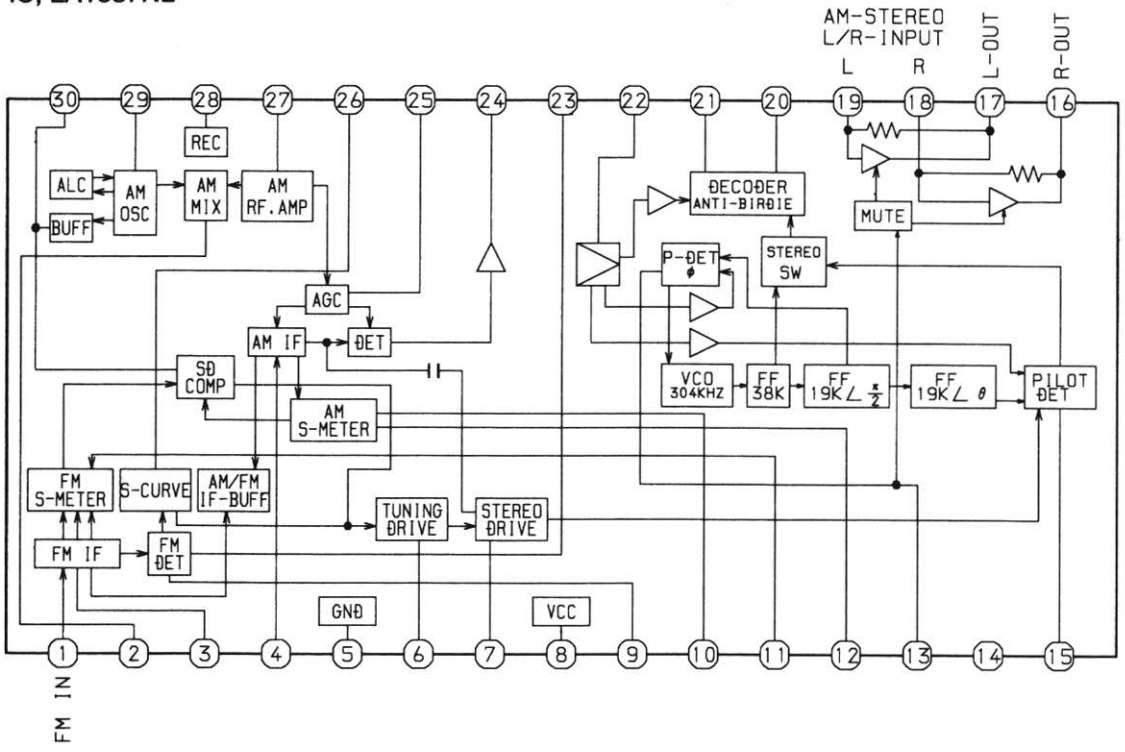
IC, LC72131D



IC, BU2099FV



IC, LA1837NL



IC DESCRIPTION

IC, UPD780228

Pin No.	Pin Name	I/O	Description
1	O-K-SCAN	O	Key scan output.
2	I-JOG-A	I	Dial jog rotary encoder input A.
3	I-JOG-B	I	Dial jog rotary encoder input B.
4	TAPE	O	" TAPE " LED ON/OFF output.
5	TUNER	O	" TUNER " LED ON/OFF output.
6	AUX	O	" AUX " LED ON/OFF output.
7	CD	O	" CD " LED ON/OFF output.
8	O-MOTOR	O	DECK MOTOR ON/OFF output.
9	O-SOL2	O	DECK2 solenoid output.
10	O-SOL1	O	DECK1 solenoid output.
11	O-MUTE	O	System mute ON/OFF output.
12	O-CD.OPEN	O	CD tray open data output.
13	O-CD.CLOSE	O	CD tray close data output.
14	O-STB (SHIFT)	O	Latch strobe output for FRONT shift register.
15	I-HP-MUTE	I	Headphone insert detection input.
16	I-TM-BASE	I	Base input for clock.
17	IC	-	Internal connection (connected to GND).
18	VSS	-	GND.
19	VDD	-	Power supply.
20	O-POWER	O	System power supply ON/OFF output.
21	O-STB (M)	O	Strobe output for MAIN.
22	O-CLOCK (M)	O	Clock output for MAIN.
23	O-DATA (M)	O	Data output for MAIN.
24	O-CD.DISH.F	O	CD turntable forward rotation output.
25	O-CD.DISH.R	O	CD turntable reverse rotation output.
26	I-WRQ/I-STEREO	I	CD WRQ input / Tuner stereo input.
27	I-DRF/I-IFCNT	I	CD DRF input / Tune IF count serial data input.
28	I-RDS-CLK	I	Tuner RDS clock input.
29	I-SUBQ/I-RDS DATA	I	CD SUBQ data input / RDS data input.
30	RESET	-	System reset.
31	O-DATA	O	CD data output.
32	O-CDCLK	O	CD clock output.
33	O-CD-CE	O	CD enable output.
34	I-RMC	I	System remote control input.
35	I-DISH.SENS	I	CD turntable photo sensor input.
36	O-CLK-SHIFT	O	Micon clock shift output.
37	VDD1	-	Power supply.
38	X2	-	4.19MHz oscillator circuit.
39	X1	-	4.19MHz oscillator circuit.
40	VSS1	-	GND.
41	AVDD	-	Power supply.
42	I-HOLD	I	Power failure detected input. " L " to stop clock and main memory.
43	I-CD.SW	I	CD mecha switch input.
44	I-SPEANA	I	AD input for spectrum analyser.
45	I-RE.VOL	I	Volume jog AD input.

Pin No.	Pin Name	I/O	Description
46	I-RDS-SIG	I	RDS tuner signal input.
47	I-KEY3	I	Key3 input.
48	I-KEY2	I	Key2 input.
49	I-KEY1	I	Key1 input.
50	AVSS	-	GND.
51	O-CDLED	O	CD flash window LED ON/OFF output.
52	O-PLL-CE	O	Chip enable output for tuner PLL.
53 ~ 58	P1 ~ P6	O	FL segment P1 ~ P6 output.
59	P7/REV2	I/O	FL segment P7 output / REV2 data input.
60	P8/REV1	I/O	FL segment P8 output / REV1 data input.
61	P9/AM10K	I/O	FL segment P9 output / AM10K data input.
62	P10/AMST.WIDE	I/O	FL segment P10 output / AMST WIDE data input.
63	P11/LW	I/O	FL segment P11 output / LW mode data input.
64	P12/SW	I/O	FL segment P12 output / SW mode data input.
65	P13/FM1	I/O	FL segment P13 output / FM1 mode data input.
66	P14/RDS	I/O	FL segment P14 output / RDS data input.
67	P15/CST2	I/O	FL segment P15 output / DECK2 cassette detect switch data input.
68	P16/REB	I/O	FL segment P16 output / DECK2 side B record OK switch data input.
69	P17/CAM2	I/O	FL segment P17 output / DECK2 CAM switch data input.
70	P18/AUTO1	I/O	FL segment P18 output / DECK1 AUTO STOP switch data input.
71	P19/AUTO2	I/O	FL segment P19 output / DECK2 AUTO STOP switch data input.
72	P20/CAM1	I/O	FL segment P20 output / DECK1 CAM switch data input.
73	P21/CST1	I/O	FL segment P21 output / DECK1 cassette detect switch data input.
74	P22/REA	I/O	FL segment P22 output / DECK2 side A record OK switch data input.
75	P23/KARAOKE	I/O	FL segment P23 output / KARAOKE data input.
76	P24/PROLOGIC	I/O	FL segment P24 output / PROLOGIC data input.
77	P25/NO DEMO	I/O	FL segment P25 output / NO DEMO data input.
78	P26	O	FL segment P26 output
79	VDD2	-	Power supply.
80	-VFL	-	Power supply for FL display.
81	SPEANA-A/P27	O	Spectrum analyser band switching data output / FL segment P27 output.
82	SPEANA-B/P28	O	Spectrum analyser band switching data output / FL segment P28 output.
83	SPEANA-C/P29	O	Spectrum analyser band switching data output / FL segment P29 output.
84 ~ 89	P30 ~ P35	O	FL segment P30 ~ P35 output.
90 ~100	G11 ~ G1	O	FL grid G10 ~ G1 output.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

FM SECTION

IHF Sensitivity :	Less than 10dB(at 87.5/ 98.0/108.0MHz)
Signal to noise ratio :	More than 68dB(at 98.0MHz)<MONO>
	More than 66dB(at 98.0MHz)<STEREO>
Distortion :	Less than 1.2%(at 98.0MHz) <MONO>
	Less than 2.0%(at 98.0 MHz) <STEREO>
Stereo separation :	More than 22dB (at 98.0MHz)
Intermediate frequency :	10.7MHz

MW SECTION

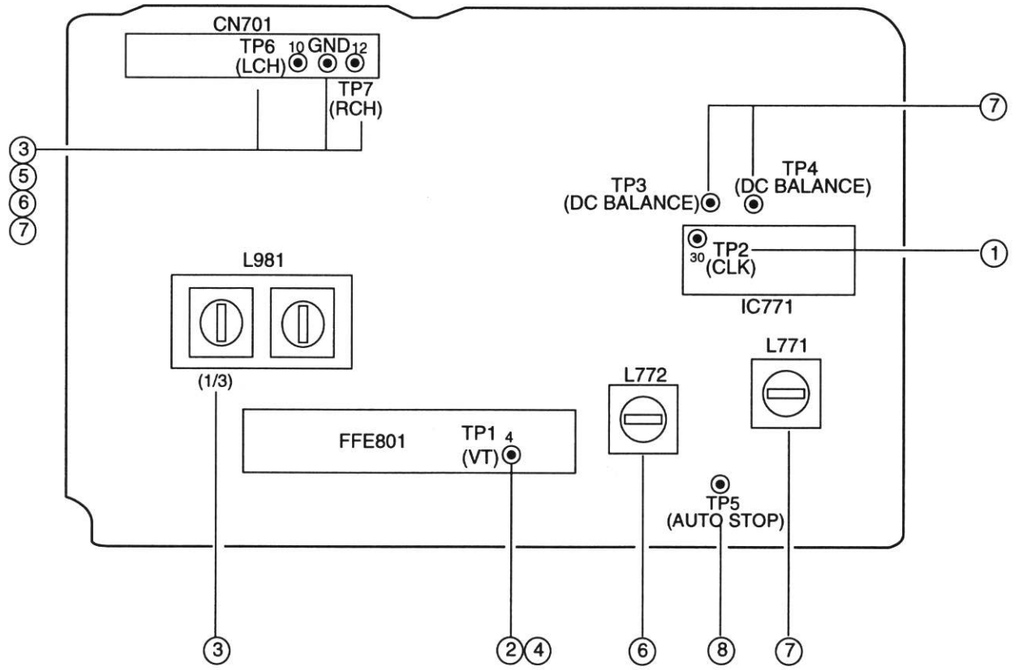
Sensitivity :	Less than 60 dB (at 603kHz)
	Less than 58 dB (at 1000/1404kHz)
S/N :	More than 36 dB (at 1000kHz)
Distortion :	Less than 1.5% (at 1000kHz)
Intermediate frequency :	450kHz

<DECK SECTION>

Tape speed :	3000Hz ± 45Hz
Wow & flutter :	Less than 0.25% (W.R.M.S.)
Take-up torque :	30 ~ 55g-cm
F.F & REW torque :	75 ~ 180g-cm
Back tension :	2 ~ 7g-cm (FWD,REV)
PB Output level :	2.8V ± 2dB (SP OUT 2V)
REC/PB Output level :	2.0V ± 1dB (SP OUT 2V)
Distortion (REC/PB) :	Less than 2.0%
Noise level (PB) :	Less than 1.0mV(FILTER DIN AUDIO)
Noise level (REC/PB) :	Less than 1.2mV(FILTER DIN AUDIO)
Erasing ratio :	More than 60dB (at 125Hz)
Test Tape :	TTA-602

ADJUSTMENT <TUNER>

D TUNER C.B



< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP2
   Method : Set to AM 1710kHz and check that the test point is 2160kHz ± 45Hz.

2. AM VT Check
   Settings : • Test point : TP1
   Method : Set to AM 1710kHz and AM 530kHz and check that the test point is less than 8.5V(1710kHz) and more than 0.6V(530kHz).

3. AM Tracking Adjustment
   Settings : • Test point : TP6(Lch), TP7(Rch)
   • Adjustment location :
   L981(1/3) 1000kHz
   Method : Set to AM 1000kHz and adjust L981(1/3) so that the test point becomes max.

4. FM VT Check
   Settings : • Test point : TP1
   Method : Set to FM 108.0MHz and check that the test point is less than 8.0V.
   Set to FM 87.5MHz and check that the test point is more than 0.5V.

5. FM Tracking Check
   Settings : • Test point : TP6(Lch), TP7(Rch)
   Method : Set to FM 98.0MHz and check that the test point is less than 9.0dBμV.

6. AM IF Adjustment
   Settings : • Test point : TP6(Lch), TP7(Rch)
   • Adjustment location :
   L772 ..... 450kHz
   Method : Adjust L772 so that the output becomes max

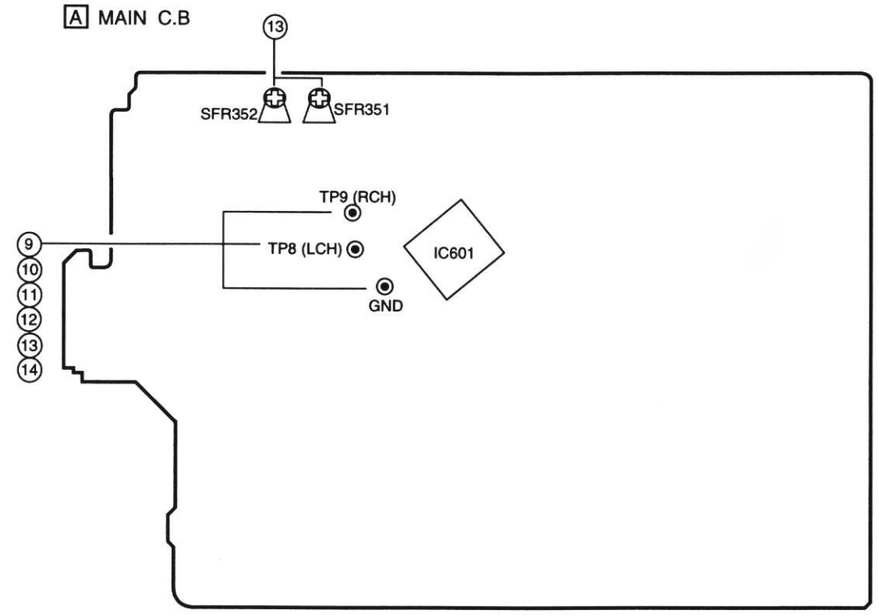
7. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3, TP4 (DC Balance)
   TP6(Lch), TP7(Rch) (Distortion)
   • Adjustment location : L771
   • Input level : 60dBμV
   Method : Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 becomes 0V ± 0.04V. Next, check that the distortion is less than 1.3%

8. Auto Stop Level Check
   AM
   Settings : • Test point : TP5
   • Input level : 52dBμV
   Method : Set to AM 1000kHz and check that the auto stop is at 52dBμV +10/-15dB.

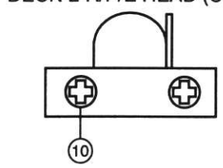
   FM
   Settings : • Test point : TP5
   • Input level : 25dBμV
   Method : Set to FM 98.0MHz and check that the auto stop is at 25dBμV ± 10dB.

ADJUSTMENT <DECK>

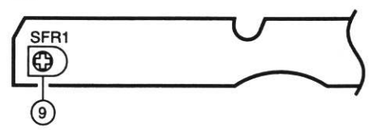
A MAIN C.B



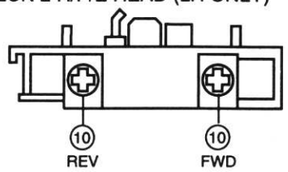
DECK-1 P HEAD (U ONLY)
DECK-2 R/P/E HEAD (U ONLY)



E DECK C.B



DECK–1 P HEAD (LH ONLY)
DECK-2 R/P/E HEAD (LH ONLY)



< DECK SECTION >

9. Tape Speed Adjustment (DECK 1, DECK 2)
   Settings : • Test tape : TTA–100
   • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location : SFR1
   Method : Play back the test tape and adjust SFR1 so that the frequency counter reads 3000Hz ± 5Hz (FWD) and ±45Hz (REV) with respect to forward speed.

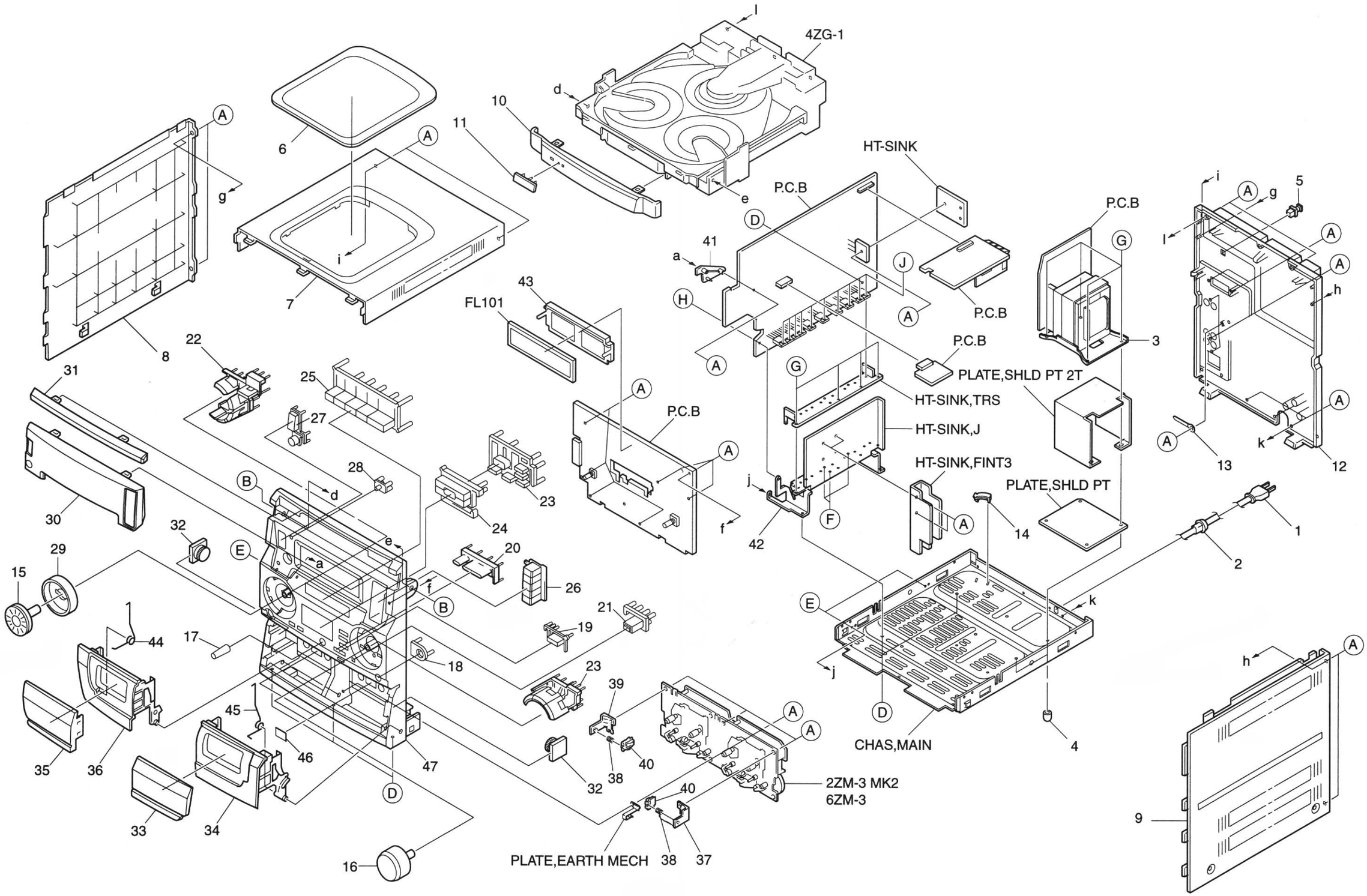
10. Head Azimuth Adjustment (DECK 1, DECK 2)
    Settings : • Test tape : TTA–330
    • Test point : TP8(Lch), TP9(Rch)
    • Adjustment location : Head azimuth adjustment screw
    Method : Play back (FWD) the 8kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on REV PLAY mode.

11. PB Frequency Response Check (DECK 1, DECK 2)
    Settings : • Test tape : TTA–330
    • Test point :TP8(Lch), TP9(Rch)
    Method : Play back the 315Hz and 8kHz signals of the test tape and check that the output ratio of the 8kHz signal with respect to that of the 315Hz signal is within 5dB.

12. PB Sensitivity Check (DECK 1, DECK 2)
    Settings : • Test tape : TTA–200
    • Test point : TP8(Lch), TP9(Rch)
    Method : Play back the test tape and check that the output level of the test point is 300mV ± 3dB.

13. REC/PB Frequency Response Adjustment (DECK 1)
    Settings : • Test tape : TTA–602
    • Test point : TP8(Lch), TP9(Rch)
    • Input signal : 1kHz / 10kHz (LINE IN)
    • Adjustment location : SFR351 (Lch)
    SFR352 (Rch)
    Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes -20VU(-30.2dBV). Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes 0dB ± 0.5dB with respect to that of the 1kHz signal.

14. REC/PB Sensitivity Check (DECK 1)
    Settings : • Test tape : TTA–602
    • Test point : TP8(Lch), TP9(Rch)
    • Input signal : 1kHz (LINE IN)
    Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP8, TP9 becomes 0VU (-10.2dBV). Record and play back the 1kHz signals and check that the output is 0dB ± 3.5dB.

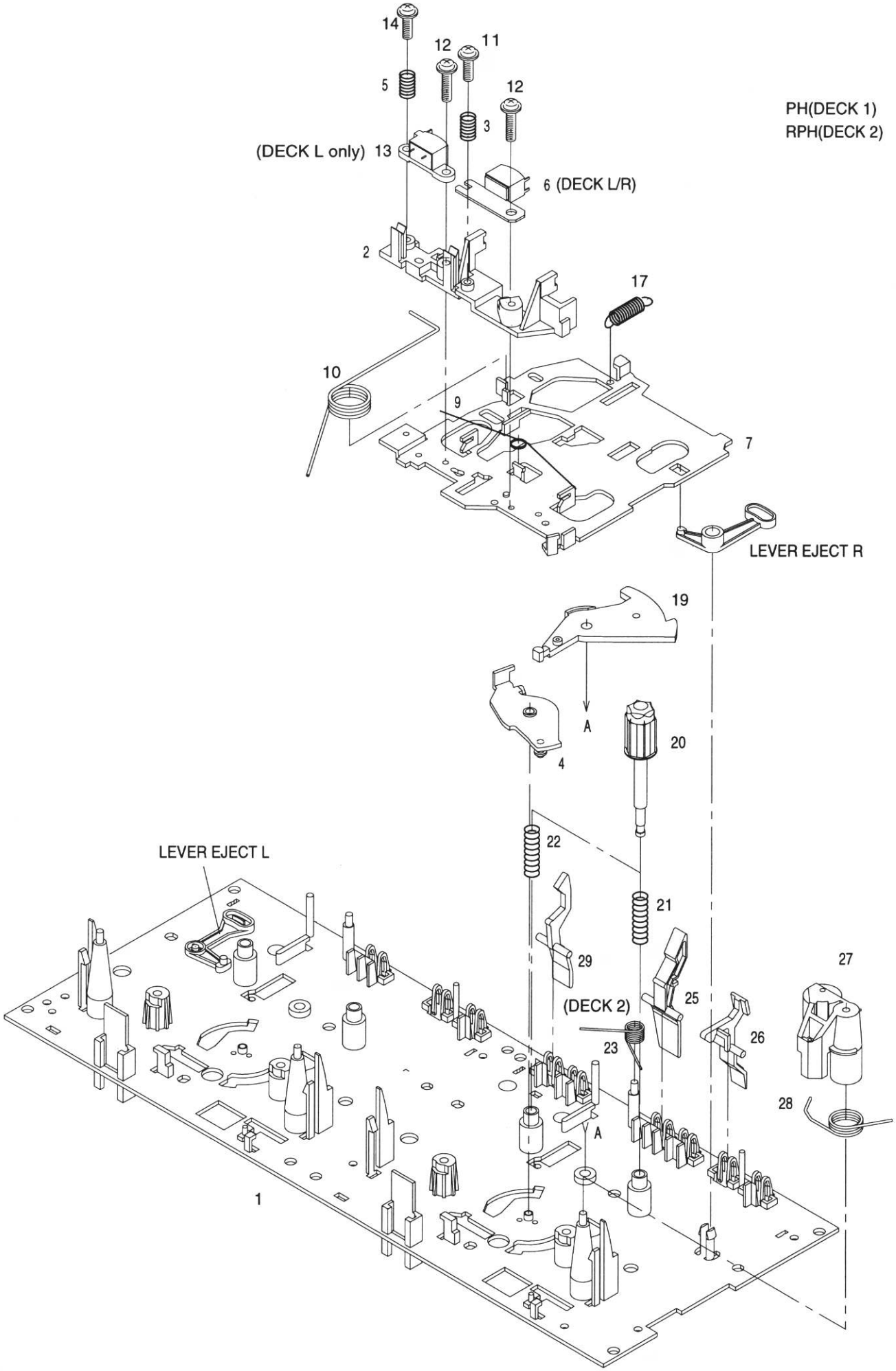

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HT-SINK
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P.C.B
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FL101
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MECHANICAL PARTS LIST 1 / 1

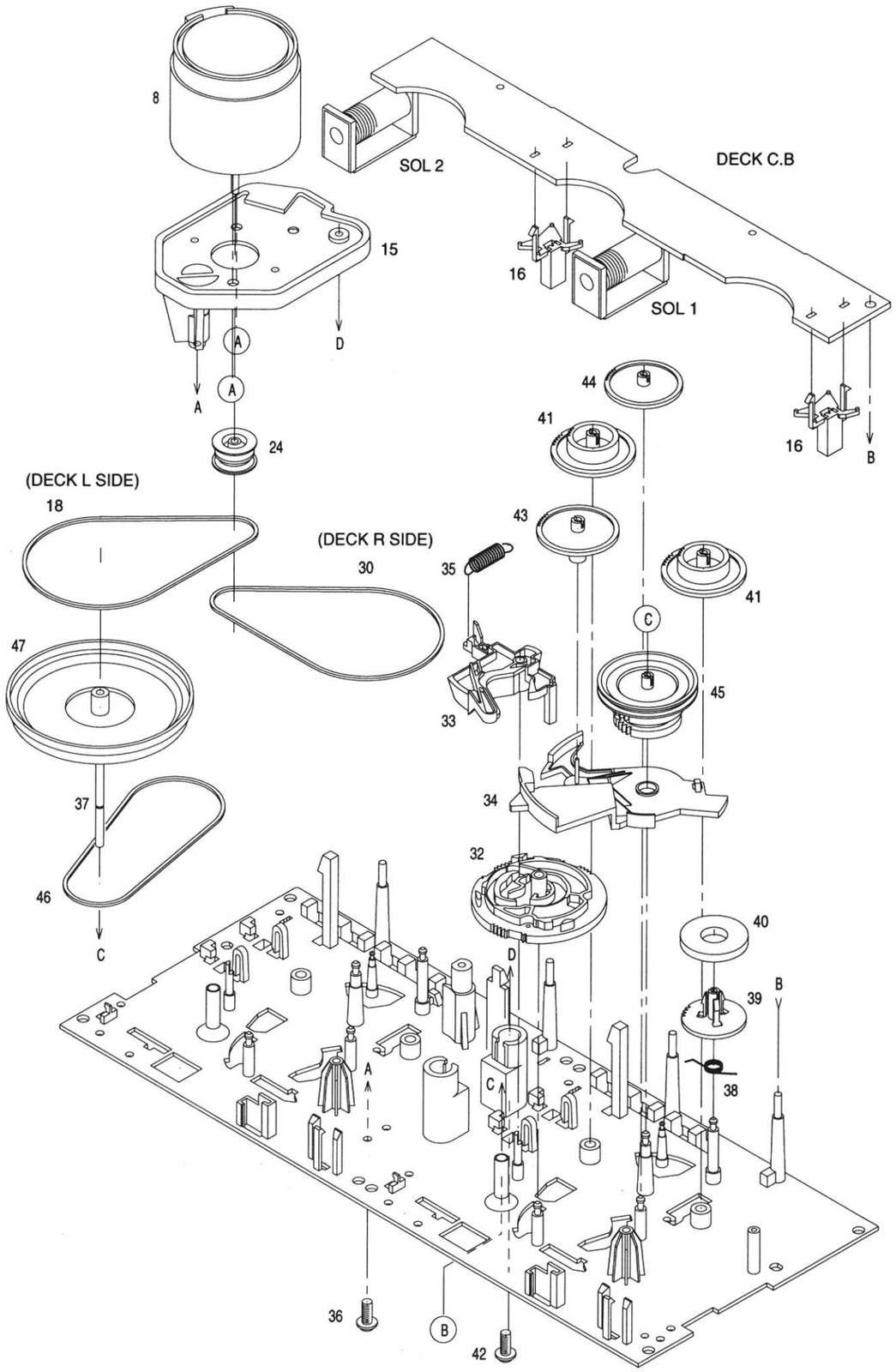
If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
⚠ 1	87-A80-110-010		AC CORD ASSY,U SPT-2W<USTFD,USTM>
⚠ 1	87-050-079-010		AC-CORD ASSY,E<LHSTM>
2	87-085-185-010		BUSHING, AC CORD (E)<LHSTM>
2	87-085-189-010		BUSHING, CORD (U)<USTFD,USTM>
⚠ 3	8Z-NF8-609-010		PT,ZNF-8LH<LHSTM>
⚠ 3	8Z-NF8-604-010		PT,ZNF-8U<USTFD,USTM>
4	8Z-NB8-240-010		COVER, PL
5	84-ZG1-245-210		CAP,OPTICAL
6	86-NFZ-001-010		WINDOW,TOP
7	8Z-NF9-042-010		PANEL,TOP V-2
8	8Z-NB8-011-110		PANEL,LEFT V-2<LHSTM>
8	8Z-NB8-011-010		PANEL,LEFT V-2<USTFD,USTM>
9	8Z-NF9-043-010		PANEL,RIGHT S V-2
10	8Z-NF8-025-010		PANEL,TRAY U
11	82-NE6-067-010		BADGE,AIWA 30N
12	8Z-NF8-042-010		CABI,REAR LHSTNM<LHSTM>
12	8Z-NF8-047-010		CABI,REAR USTFD<USTFD>
12	8Z-NF8-002-010		CABI,REAR USTNM<USTM>
13	87-064-185-010		HLDR,WIRE
14	87-NF4-221-010		HLDR,CABLE<USTFD,USTM>
15	8Z-NF8-026-010		KNOB,RTRY JOG
16	8Z-NF8-027-010		KNOB,RTRY VOL
17	8Z-NF8-028-010		KNOB,RTRY MIC<LHSTM>
18	8Z-NF9-204-010		PLATE,MIC<LHSTM>
19	8Z-NF8-009-010		KEY,EDIT<USTFD,USTM>
19	8Z-NF8-048-010		KEY,EDIT H<LHSTM>
20	8Z-NF8-050-010		KEY,KARAOKE<LHSTM>
21	8Z-NF8-049-010		KEY,ECHO U<USTFD,USTM>
22	8Z-NF8-008-010		KEY,TIMER
23	8Z-NF8-013-010		KEY,ASSY PLAY<LHSTM>
23	8Z-NF8-030-010		KEY,ASSY PLAY U<USTFD,USTM>
24	8Z-NF8-016-010		KEY,ASSY PAUSE
25	8Z-NF8-006-010		KEY,CD
26	8Z-NF8-010-010		KEY,ASSY FUN
27	8Z-NF8-005-010		KEY,POWER
28	8Z-NF8-007-010		REFLECTOR,ECO
29	8Z-NF8-029-010		REFLECTOR,JOG
30	8Z-NF8-034-010		WINDOW,DISP H<LHSTM>
30	8Z-NF8-023-010		WINDOW,DISP U<USTFD,USTM>
31	8Z-NF8-024-010		WINDOW,CD
32	87-NF8-220-010		DMPR,150
33	8Z-NF8-022-010		WINDOW,CASS 2
34	8Z-NF8-038-010		BOX,CASS 2H<LHSTM>
34	8Z-NF8-004-010		BOX,CASS 2U<USTFD,USTM>
35	8Z-NF8-021-010		WINDOW,CASS 1
36	8Z-NF8-037-010		BOX,CASS 1H<LHSTM>
36	8Z-NF8-003-010		BOX,CASS 1U<USTFD,USTM>
37	87-NF4-217-010		HLDR,LOCK 2
38	86-NF9-224-010		SPR-C,LOCK
39	87-NF4-216-010		HLDR,LOCK 1
40	82-NF5-229-010		PLATE,LOCK
41	88-NF5-208-010		HLDR,PWB-M N
42	8Z-NF8-205-010		HLDR,HT-SINK
43	88-NF8-205-010		GUIDE,FL
44	82-NF5-218-010		SPR-T,EJECT 1 (SIN)
45	82-NF5-219-010		SPR-T,EJECT 2 (SIN)
46	81-532-080-010		LABEL, CASS. COMPT
47	8Z-NF8-033-010		CABI,FR H<LHSTM>
47	8Z-NF8-001-010		CABI,FR U<USTFD,USTM>
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-721-097-410		QT2+3-12 GLD
C	87-078-191-010		S-SCREW,IT+4-10
D	87-067-688-010		BVTT+3-6
E	87-721-096-410		QT2+3-10 GLD
F	87-067-758-010		BVT2+3-12 W/O SLOT
G	87-067-581-010		TAPPING SCREW, BVT2+3-15
H	87-NF4-224-010		S-SCREW,IT3B+3-8 CU

TAPE MECHANISM EXPLODED VIEW 1 / 2 <U>



TAPE MECHANISM EXPLODED VIEW 2 / 2 <U>

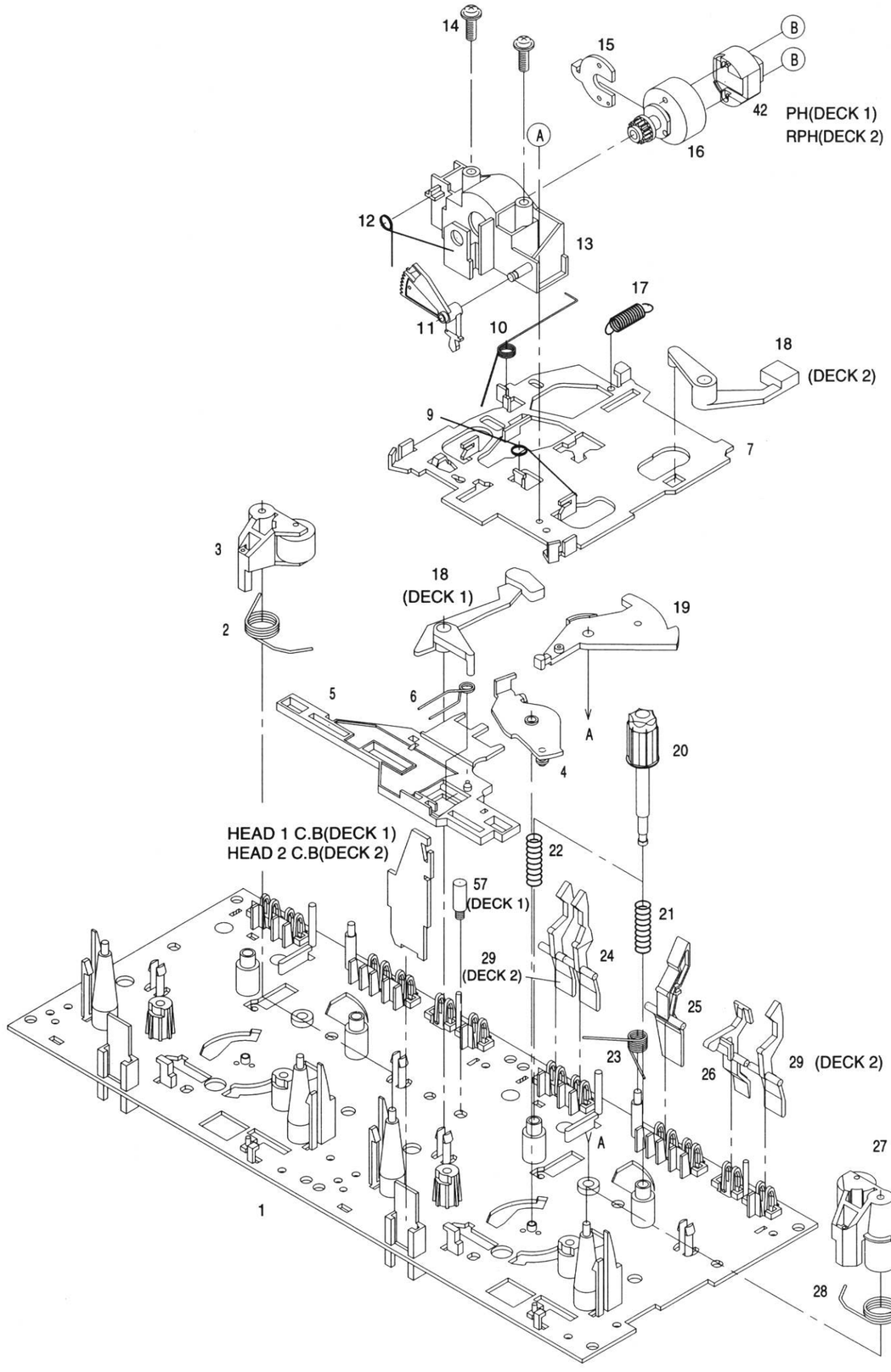


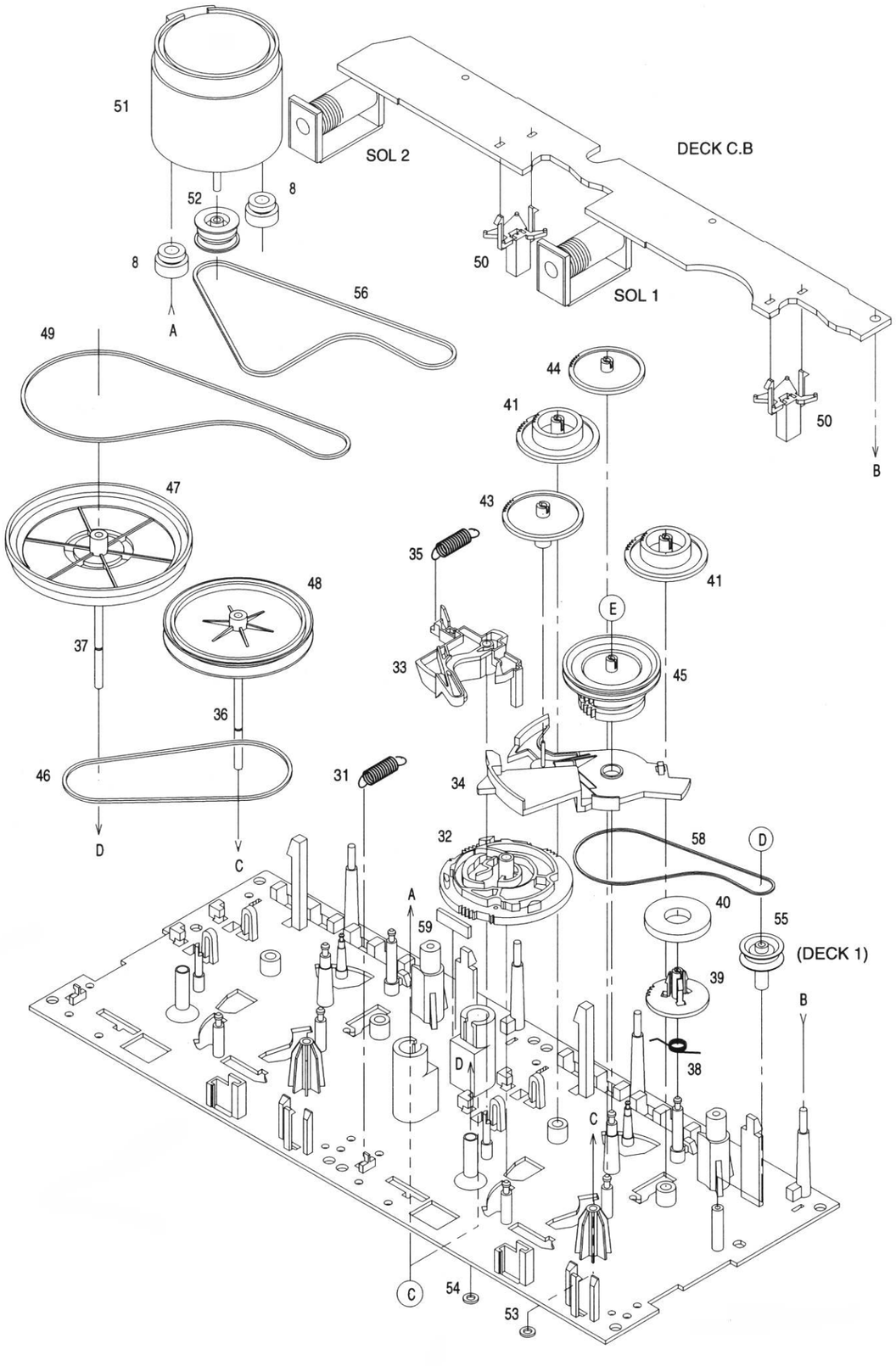
TAPE MECHANISM PARTS LIST 1 / 1 <U>

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

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	86-ZM3-212-010		CHAS ASSY,SS
2	86-ZM3-202-010		BASE,HEAD S
3	86-ZM3-205-010		SPR-C,RPH S
4	82-ZM1-333-210		PLATE,LINK 2
5	86-ZM3-206-010		SPR-C,EH S
6	87-A90-403-019		HEAD,RPH MS15R
7	86-ZM3-201-010		CHAS,HEAD S
8	87-045-347-019		MOT,SHU2L 70(M1)
9	82-ZM1-269-219		SPR-T,BRG
10	82-ZM3-323-119		SPR-T,LINK
11	86-ZM3-209-010		S-SCREW,AZIMUTHS
12	86-ZM3-207-010		S-SCREW,RPH
13	87-A90-404-019		HEAD,EH LE15B
14	86-ZM3-208-010		S-SCREW,EH
15	86-ZM3-203-010		HLDR,MOTS
16	82-ZM1-245-210		HLDR,IC
17	82-ZM1-218-019		SPR-E,HB
18	86-ZM3-211-010		BELT,RS
19	82-ZM1-222-219		LVR,PLAY
20	82-ZM1-217-419		REEL,TABLE
21	82-ZM1-244-519		SPR-C,BT
22	82-ZM1-285-410		SPR-C,BT L
23	82-ZM1-257-019		SPR-T,CAS
24	82-ZM3-221-010		PULLEY,MOT 2M
25	82-ZM1-242-019		LEVER,CAS
26	82-ZM1-243-019		LVR,STOP
27	82-ZM1-344-119		LVR ASSY,PINCH
28	86-ZM3-204-010		SPR-T,PINCH DS
29	82-ZM1-240-119		LVR,REC (DECK 2)
30	86-ZM3-210-010		BELT,PS
31	82-ZM1-223-010		GEAR,PLAY
32	82-ZM3-305-019		GEAR,CAM M2
33	82-ZM1-227-319		LVR,TRIG
34	82-ZM3-306-110		LVR,FR M2
35	82-ZM1-265-119		SPR-E,TRIG
36	85-ZM3-203-019		S-SCREW MOTOR M3
37	82-ZM1-236-019		CAPSTAN N 2-41.5
37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
38	82-ZM1-322-019		SPR-T,FR60
39	82-ZM1-220-219		GEAR,IDLER
40	82-ZM3-616-019		RING MAGNET 4
41	82-ZM1-216-319		GEAR,REEL
42	85-ZM3-213-010		S-SCREW,HLDR MOT 3
43	82-ZM1-225-219		GEAR,FR
44	82-ZM1-226-019		GEAR,REW
45	82-ZM3-333-210		SLIP DISK ASSY 2
46	82-ZM1-338-010		BELT FR4
47	82-ZM1-349-019		FLY-WHL RW (DECK L).
47	82-ZM3-331-019		FLY-WHL R2W (DECK R)
A	87-251-071-417		U+2.6-4
B	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT

TAPE MECHANISM EXPLODED VIEW 1 / 1 <LH>



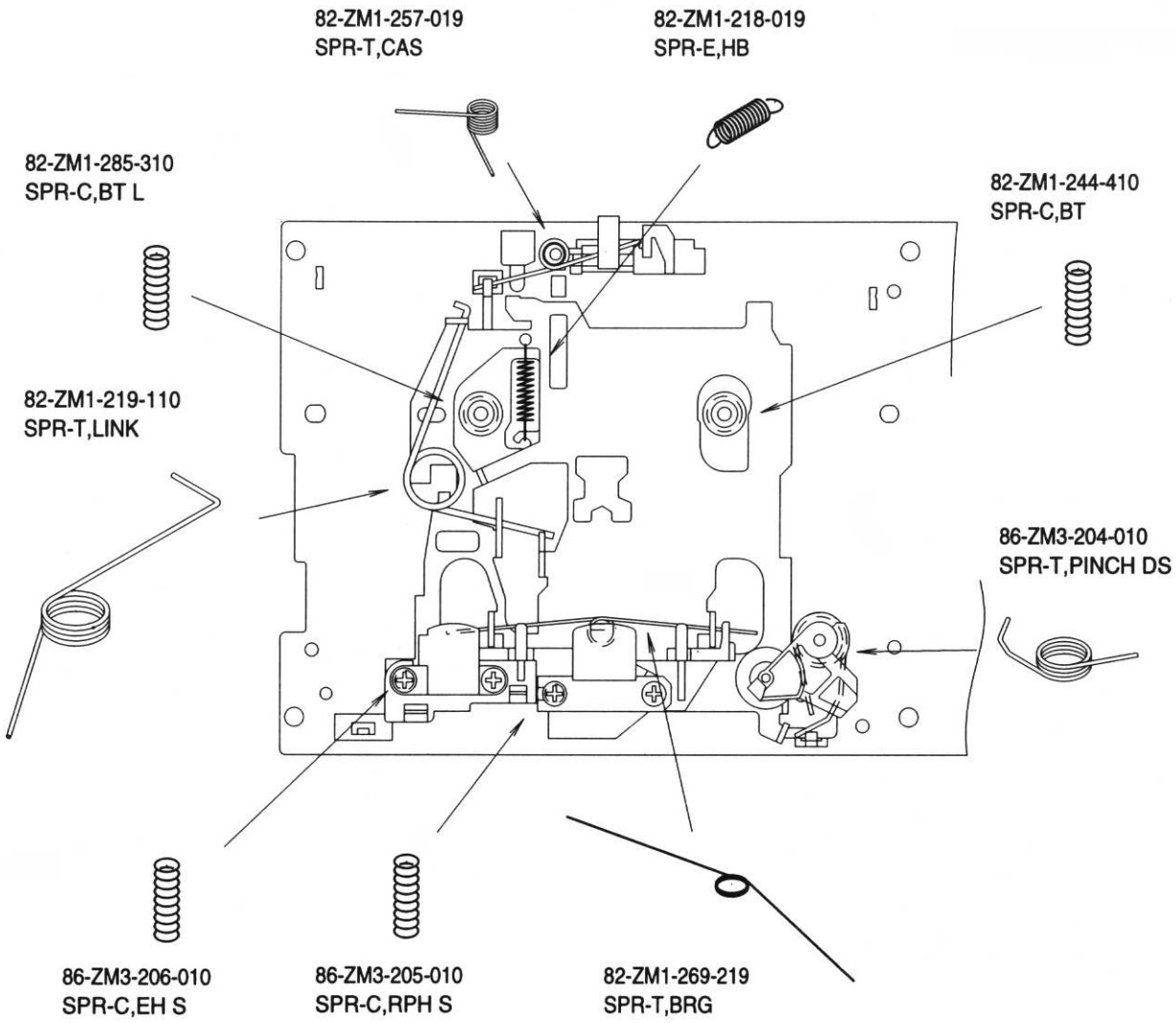


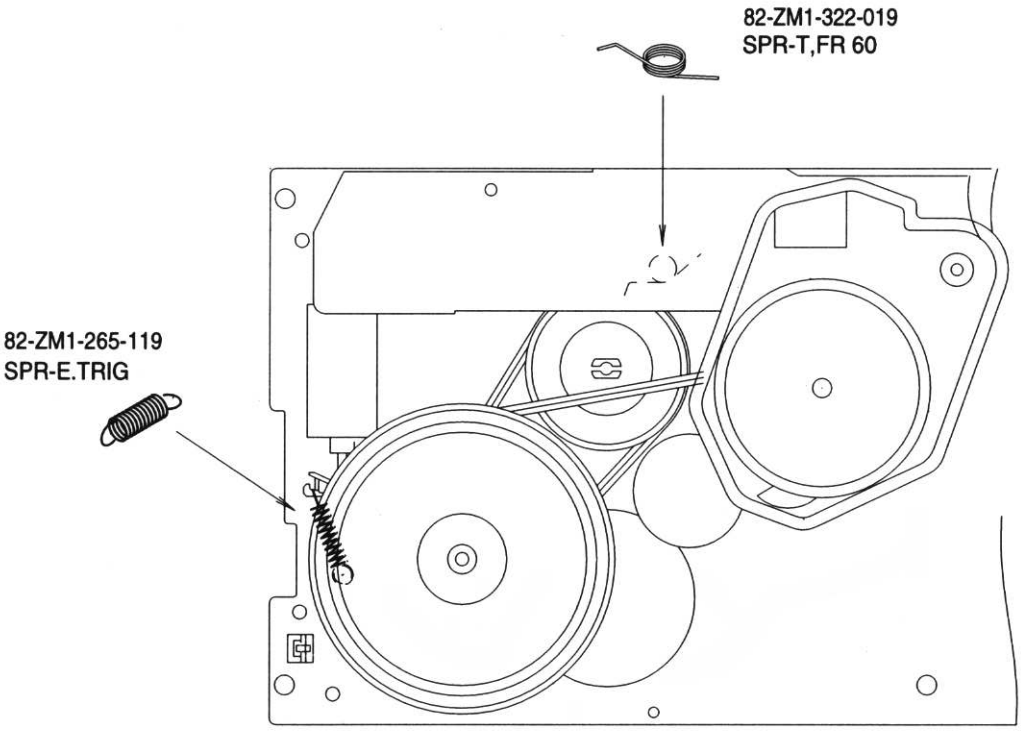
TAPE MECHANISM PARTS LIST 1 / 1 <LH>

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

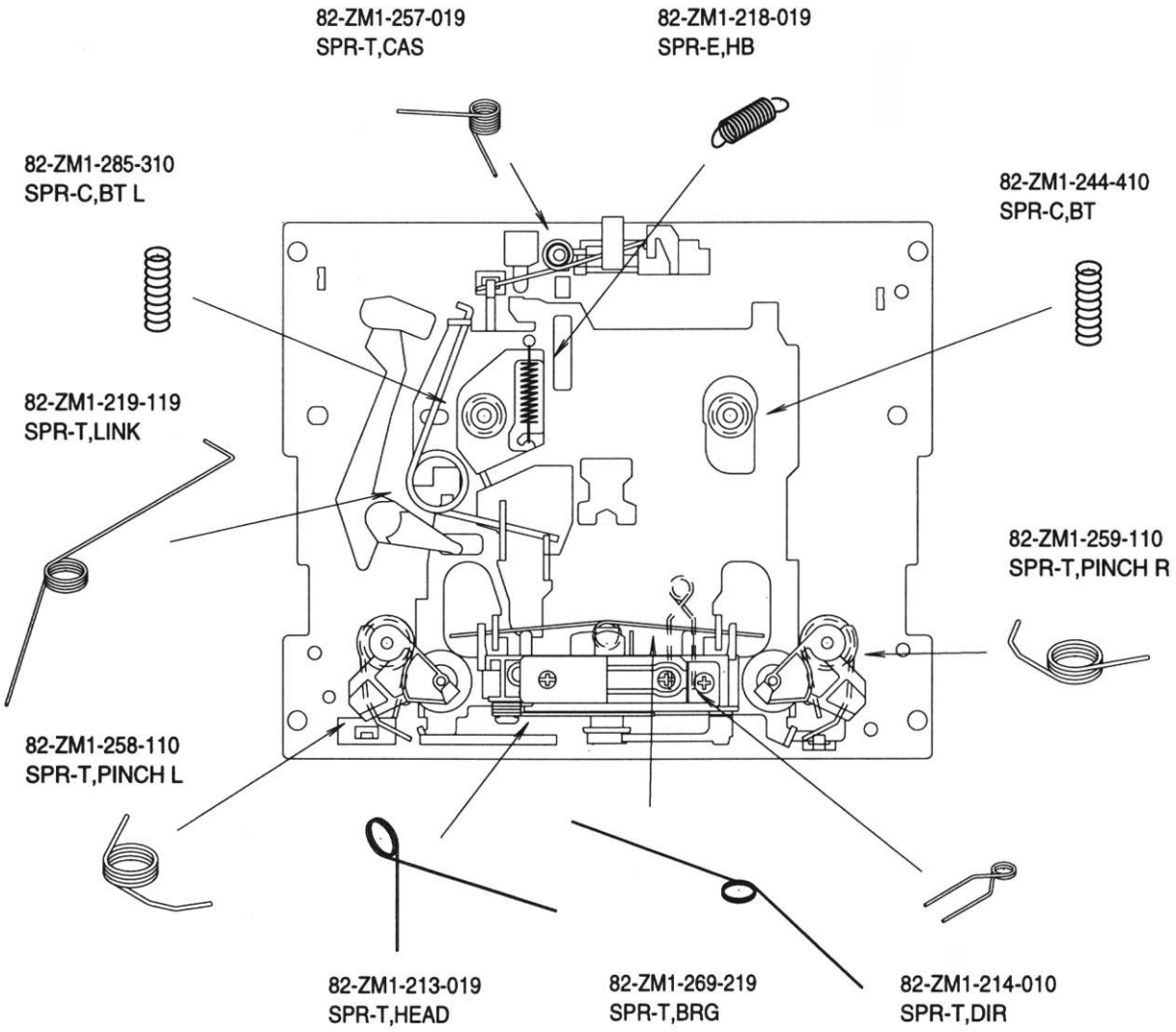
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-519		CHAS ASSY,M2
2	82-ZM1-258-110		SPR-T,PINCH L
3	82-ZM1-341-110		LVR ASSY,PINCH L2
4	82-ZM1-333-010		PLATE,LINK 2
5	82-ZM1-266-11K		LVR,DIR
6	82-ZM1-214-010		SPR-T,DIR
7	82-ZM1-206-81K		CHAS,HEAD
8	82-ZM3-307-019		CUSH-G,DIA3.7-8-3.2
9	82-ZM1-269-219		SPR-T,BRG
10	82-ZM1-219-119		SPR-T,LINK
11	82-ZM1-210-119		GEAR,H T
12	82-ZM1-213-019		SPR-T,HEAD
13	82-ZM1-207-619		GUIDE,TAPE
14	86-ZM4-206-010		S-SCREW,AZIMUTH
15	82-ZM1-314-119		PLATE,HEAD
16	82-ZM1-208-119		HLDR,HEAD
17	82-ZM1-218-019		SPR-E,HB
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)
19	82-ZM1-222-21K		LVR,PLAY
20	82-ZM1-217-319		REEL TABLE
21	82-ZM1-244-510		SPR-C,BT
22	82-ZM1-285-310		SPR-C,BT L
23	82-ZM1-257-019		SPR-T,CAS
24	82-ZM1-241-319		LVR,MC
25	82-ZM1-242-019		LVR,CAS
26	82-ZM1-243-019		LVR,STOP
27	82-ZM1-344-110		LVR ASSY,PINCH R2
28	82-ZM1-259-110		SPR-T,PINCH R
29	82-ZM1-240-11K		LVR,REC (DECK 2)
31	82-ZM1-255-319		SPR-E,LVR DIR
32	82-ZM3-305-01K		GEAR,CAM M2
33	82-ZM1-227-21K		LVR,TRIG
34	82-ZM3-306-11K		LVR,FR M2
35	82-ZM1-265-119		SPR-E,TRIG
36	82-ZM1-236-019		CAPSTAN N 2-41.5
37	82-ZM1-239-019		CAPSTAN N 2.2-41.7
38	82-ZM1-322-019		SPR-T,FR60
39	82-ZM1-220-219		GEAR,IDLER
40	82-ZM3-616-019		RING MAGNET 4
41	82-ZM1-216-31K		GEAR,REEL
42	87-A90-319-010		HEAD,PH HADKH2 FPC
42	87-A90-320-010		HEAD,RPH HADKH5 FPC
43	82-ZM1-225-21K		GEAR,FR
44	82-ZM1-226-019		GEAR,REW
45	82-ZM3-333-310		SLIP DISK ASSY 2
46	82-ZM1-338-010		BELT FR4
47	82-ZM1-349-110		FLY-WHL,R W(DECK 2)
47	82-ZM3-338-110		FLY-WHL,R3 W(DECK 1)
48	82-ZM1-348-010		FLY-WHL,L W(DECK 2)
48	82-ZM1-348-010		FLY-WHL,L W(DECK 1)
49	82-ZM3-329-210		BELT,SBU R2
50	82-ZM1-245-210		HLDR,IC
51	87-045-347-019		MOT,SHU2L 70(M1)
52	82-ZM3-221-010		PULLEY,MOT 2M
53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
55	82-ZM3-335-210		PULLEY,COUPLER M3(DECK 1)
56	82-ZM3-337-010		BELT,SBU MOT 2
57	82-ZM3-339-010		SHAFT,COUPLER N3(DECK 1)
58	86-ZM1-206-010		BELT,MAIN L
59	82-ZM3-340-010		SH,BELT D2
A	85-ZM3-202-010		S-SCREW,TG
B	80-ZM6-207-019		V+1.6-7
C	82-ZM3-318-019		S-SCRW MOTOR M2
D	87-B10-043-010		W-P,0.99-4-0.25 SLT
E	82-ZM3-334-010		PW,2.16-6-0.4

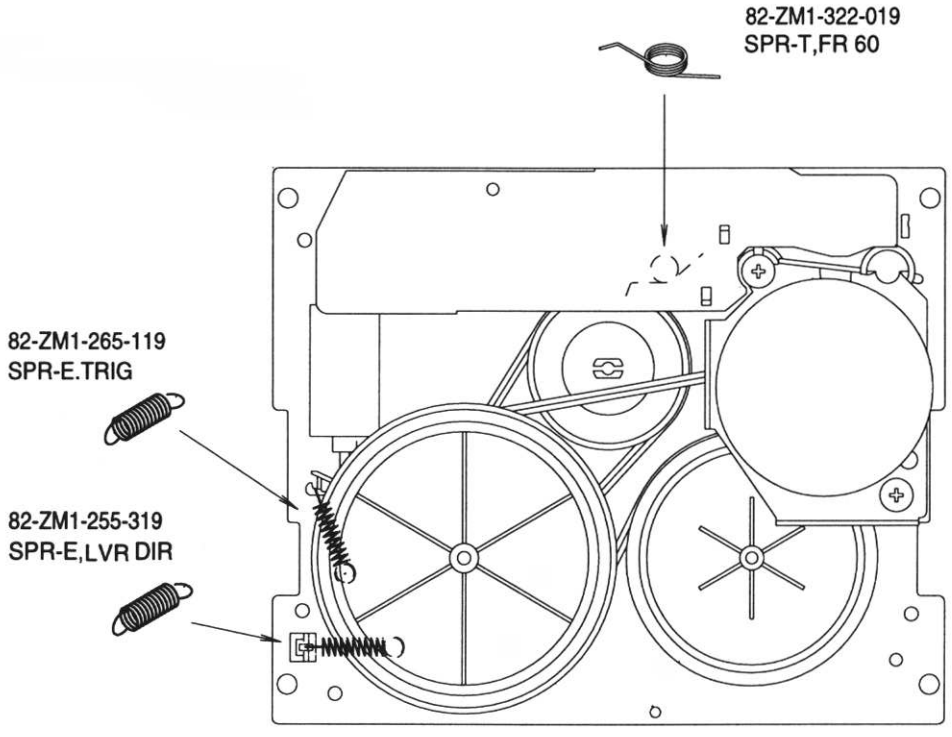
SPRING APPLICATION POSITION <U>





SPRING APPLICATION POSITION <LH>

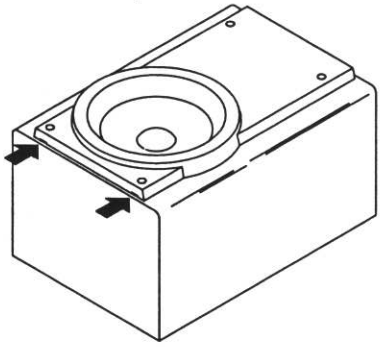




SPEAKER DISASSEMBLY INSTRUCTIONS

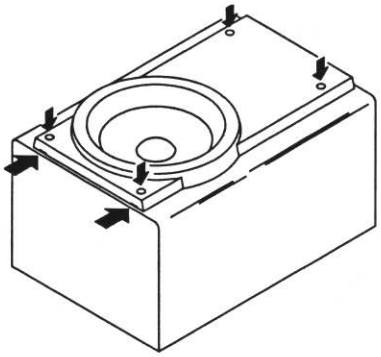
Type.1

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



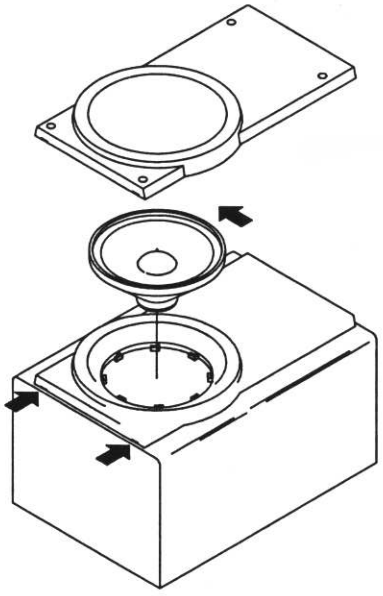
Type.2

Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.

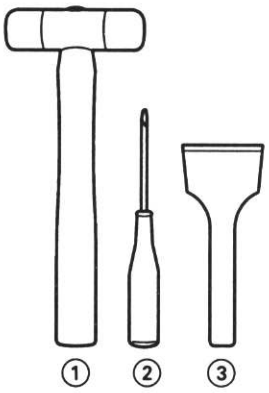


Type.3

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



Type.4



TOOLS

① Plastic head hammer
② (⊖) flat head screwdriver
③ Cut chisel

How to Remove the PANEL, FR

1. Insert the (⊖) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (⊖) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.

2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.

3. Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.

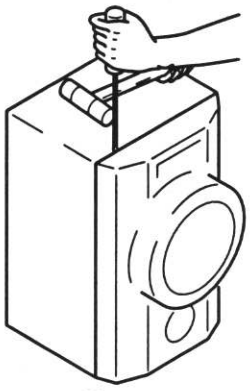


Fig-1



Fig-2

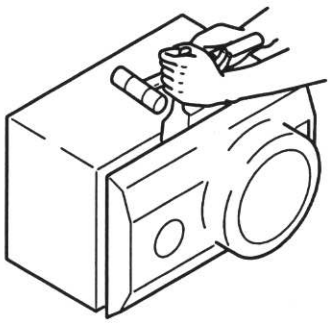


Fig-3

How to Attach the PANEL, FR

Attach the PANEL, FR to the PANEL, SPKR. Tap the four corners of the PANEL, FR with the plastic hammer to fit the PANEL, FR into the PANEL, SPKR completely.

SPEAKER PARTS LIST SX-WNA555 (YU) / SX-WNS555 (YL)

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	88-NS3-029-010		CORD,BUSH L
2	88-NS5-610-010		CORD,SPKR
3	88-NS5-611-010		CORD,SPKR B/L
4	8Z-NS8-002-010		PANEL,BA
5	8Z-NS8-003-010		PROTECTOR, TW
6	8Z-NSY-003-010		CORD,BUSH
7	8Z-NSY-602-010		SPKR, W 160
8	8Z-NSY-604-010		SPKR, M 100

ACCESSORIES / PACKAGE LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-006-225-010		AM LOOP ANT NC2
2	8Z-NF8-701-110		RC UNIT,RC-ZAS01
3	8Z-NF8-903-110		IB,U(ESF)M<U>
4	8Z-NF8-902-010		IB,LH(ESP)M<LH>
5	87-043-115-010		ANT,FEEDER FM
⚠ 6	87-099-789-010		PLUG CONVERSION IR44<LH>

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
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9820527, 931261

Tokyo Japan

Printed in Singapore