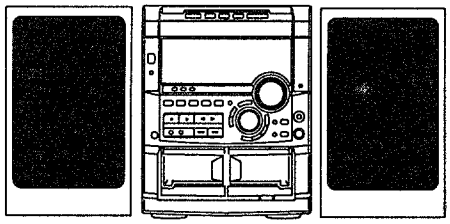
aiwa

aiwa SERVICE

NSX-A777
NSX-S777
NSX-A767



COMPACT DISC STEREO
CASSETTE RECEIVER

- BASIC TAPE MECHANISM : 2ZM-3MK2 PR4NM
- BASIC CD MECHANISM : 4ZG–1 Z3RDSHM
- TYPE : U (A777, A767)
  LH (S777)

SERVICE MANUAL

REVISION PUBLISHING

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-A777	CX-NA777	SX-WNA777	RC – ZAS01
NSX-S777	CX-NS777	SX-WNS777	
NSX-A767	CX-NA767	SX-NA772 SX-R275	

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" NSX-A777/S777/A767 (U, LH) (S/M Code No. 09-991-403-5T1).
- 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. 09–993–403–5R1

TABLE OF CONTENTS

SPECIFICATIONS 3
NOTE ON BEFORE STARTING REPAIR 4, 5
PROTECTION OF EYES FROM LASER BEAM DURING SERVICING 6
PRECAUTION TO REPLACE OPTICAL BLOCK 6
ELECTRICAL MAIN PARTS LIST ..... 7 ~ 11
TRANSISTOR ILLUSTRATION 12
BLOCK DIAGRAM – 1 (MAIN / FRONT) 13, 14
BLOCK DIAGRAM – 2 (TUNER) 15
IC BLOCK DIAGRAM – 1 16
WIRING – 1 (MAIN : 777U, LH) 17, 18
SCHEMATIC DIAGRAM – 1 (MAIN 1 / 2 : AMP : 777U, LH) ..... 19 ~ 21
SCHEMATIC DIAGRAM – 2 (MAIN 1 / 2 : AMP : 767U) ..... 22 ~ 24
WIRING – 2 (MAIN : 767U) 25, 26
IC BLOCK DIAGRAM – 2 ..... 27, 28
FL (BJ679GK) GRID ASSIGNMENT & ANODE CONNECTION 29, 30
WIRING – 3 (FRONT) 31, 32
SCHEMATIC DIAGRAM – 3 (FRONT) ..... 33 ~ 35
SCHEMATIC DIAGRAM – 4 (TUNER FRONT END) 36
SCHEMATIC DIAGRAM – 5 (TUNER) 37, 38
WIRING – 4 (TUNER) 39
WIRING – 5 (DECK) 40
SCHEMATIC DIAGRAM – 6 (MAIN 2 / 2 : DECK) 41, 42
WIRING – 6 (PT : 777U) 43
SCHEMATIC DIAGRAM – 7 (PT : 777U) 44
WIRING – 7 (PT : 767U) 45
SCHEMATIC DIAGRAM – 8 (PT : 767U) 46
WIRING – 8 (PT : LH) 47
SCHEMATIC DIAGRAM – 9 (PT : LH) 48
IC DESCRIPTION ..... 49 ~ 51
IC BLOCK DIAGRAM – 3 52
ADJUSTMENT <TUNER / DECK / FRONT> ..... 53 ~ 55
PRACTICAL SERVICE FIGURE 56
MECHANICAL EXPLODED VIEW 1 / 1 ..... 57, 58
MECHANICAL PARTS LIST 1 / 1 59
TAPE MECHANISM EXPLODED VIEW 1 / 1 ..... 60, 61
TAPE MECHANISM PARTS LIST 1 / 1 62
SPRING APPLICATION POSITION 63
SPEAKER DISASSEMBLY INSTRUCTIONS 64
SPEAKER PARTS LIST 65
ACCESSORIES / PACKAGE LIST 65
REFERENCE NAME LIST 66

SPECIFICATIONS

<FM Tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity(IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

<AM Tuner section>

Tuning range	531 kHz to 1602 kHz (9 kHz step) 530 kHz to 1710 kHz (10 kHz step)
Usable sensitivity	350 uV/m
Antenna	Loop antenna

<Amplifier section><777U, LH>

Mid-high frequency amplifier

Power output	777U : 15 W + 15 W (6 ohms, T.H.D less than 1 %, 200 Hz – 20 kHz) LH : 16 W + 16 W (6 ohms, T.H.D 1 %, 1 kHz) Reference: 20 W + 20 W (6 ohms, T.H.D 10 %, 1 kHz)
Total harmonic distortion	0.1 % (10 W, 1 kHz, 6 ohms, DIN AUDIO)

Low frequency amplifier

Power output	777U : 65 W + 65 W (6 ohms, T.H.D less than 1 %, 30 Hz – 200 Hz) LH : 80 W + 80 W (6 ohms, T.H.D 1 %, 135 Hz) Reference: 100 W + 100 W (6 ohms, T.H.D 10 %, 135 Hz)
Total harmonic distortion	0.1 % 777U : (40 W, 135 Hz, 6 ohms, DIN AUDIO) LH : (50 W, 135 Hz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX: 316 mV (adjustable) MD: 316 mV (adjustable) MIC: 1.8 mV (10 kohms)
Outputs	SPEAKERS HIGH FREQ: accept speakers of 6 ohms or more SPEAKERS LOW FREQ: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 8 – 16 ohms LINE OUT: 150 mV PHONES (stereo jack) : accepts headphones of 32 ohms or more

<Amplifier section><767U>

Power output	80 W + 80 W (6 ohms, T.H.D less than 1 %, 50 Hz – 20 kHz)
Total harmonic distortion	0.1 % (50 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX: 316 mV (adjustable) MD: 316 mV (adjustable) MIC: 1.8 mV (10 kohms)
Outputs	SPEAKERS: accept speakers of 6 ohms or more SURROUND SPEAKERS: accept speakers of 8 – 16 ohms SUPER WOOFERS: 2.2 V LINE OUT: 150 mV PHONES (stereo jack) : accepts headphones of 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	CrO2 tape: 50 Hz – 16000 Hz Normal tape: 50 Hz – 15000Hz
Recording system	AC bias
Heads	Deck 1 : Playback head x 1 Deck 2 : Recording/Playback head x 1, 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 (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<General>

Power requirements	777U, 767U: 120 V AC, 60 Hz LH: 120 V/220 – 230 V/240 V AC switchable, 50/60 Hz
Power consumption	777U, 767U: 110 W LH: 145 W
Dimensions of main unit	260 x 330 x 360 mm ($10^1/_4$ x 13 x $14^1/_4$ in.)
Weight of main unit	777U: 7.5 kg (16 lbs. 9 oz) 767U: 7.7 kg (17 lbs) LH: 8.7 kg
Standby power consumption	If the power – economizing mode is OFF: 777U, 767U: 20 W LH: 21 W If the power – economizing mode is ON: 1.5 W

<Speaker system SX–NA772<767U>>

Cabinet type	3 way, Bass reflex (magnetic shielded type)
Speakers	Woofer: 160 mm ($6^3/_8$ in.) cone type Tweeter: 50 mm (2 in.) cone type Super Tweeter : 20 mm ($^{13}/_{16}$ in.) ceramic type
Impedance	6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	234 x 324 x 270 mm ($9^1/_4$ x $12^7/_8$ x $10^3/_4$ in.)
Weight	4.2 kg (9 lbs. 4 oz)

<Speaker system SX–WNA777<777U>, SX-WNS777<LH>>

Cabinet type	3 way, built-in subwoofer (magnetic shielded type)
Speakers	Subwoofer : 160 mm ($6^3/_8$ in.) cone type Full range : 777U: 120 mm ($4^3/_4$ in.) cone type LH: 100 mm cone type Super Tweeter : 20 mm ($^{13}/_{16}$ in.) ceramic type
Impedance	6 ohms / 6 ohms
Output sound pressure level	87 dB/W/m
Dimensions (W x H x D)	240 x 324 x 270 mm ($9^1/_2$ x $12^7/_8$ x $10^3/_4$ in.)
Weight	5.0 kg (11 lbs.)

- Design and specifications are subject to change without notice.

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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.

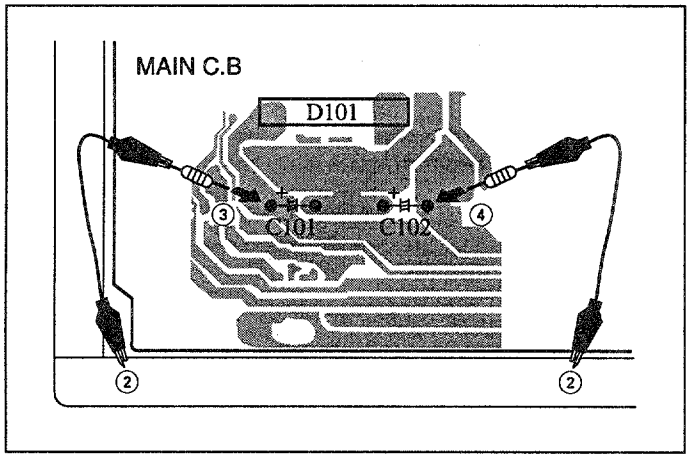


Fig-1

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.

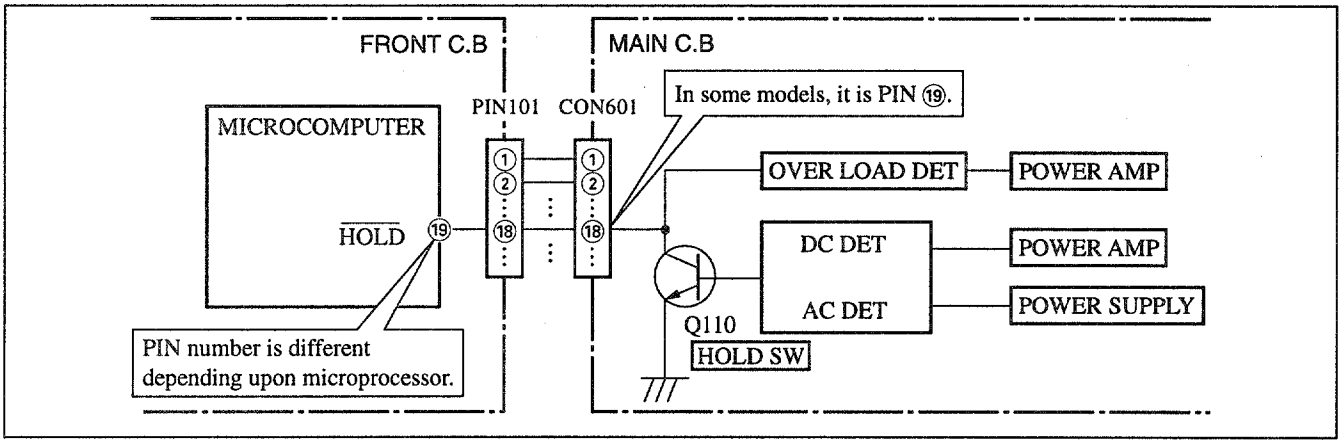


Fig-2-1

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.

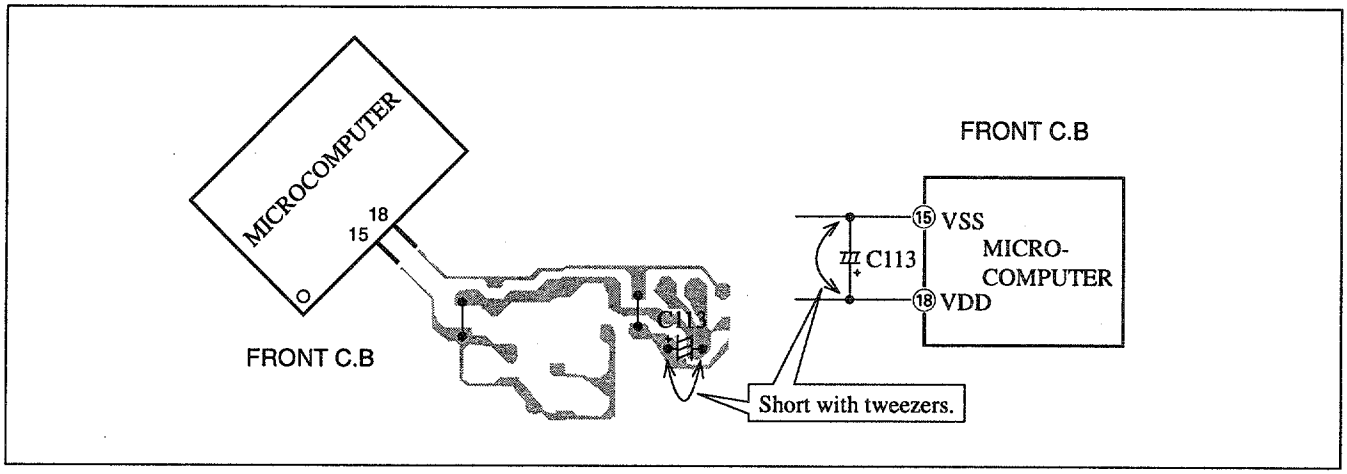


Fig-2-2

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.

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.

CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

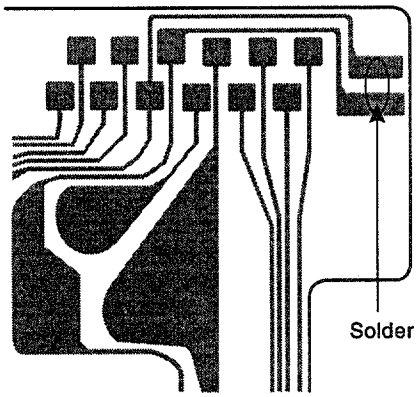
Precaution to replace Optical block

(KSS – 213B)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in right figure.

PICK-UP Assy P.C.B



ELECTRICAL MAIN PARTS LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-020-454-010		IC,DN6851
	8Z-NF7-605-010		C-IC,LC876572V-5K54
	87-A20-914-010		IC,SPS-442-1-F
	87-A20-783-040		C-IC,BA7762AFS
	87-A21-023-040		C-IC,BA3835F
	87-A21-022-040		C-IC,BA3880FS
	87-A21-021-040		C-IC,BU2099FV
	87-A21-031-040		C-IC,BU4551BF<LH,777U>
	87-A21-011-040		C-IC,M62445FP-600D
	87-070-127-110		IC,LC72131D
	87-A20-913-010		IC,LA1837NL
	87-A21-051-040		C-IC,BU9990-03FS
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-A30-234-080		TR,CSC4115BC
	87-A30-072-080		C-TR,RT1P 144C
	87-A30-186-010		FET,2SK3053
	87-026-245-080		TR,DTC114ES
	87-A30-198-080		TR,KTC3199GR
	87-A30-074-080		C-TR,RT1P 141C
	87-A30-268-040		C-TR,2SA1514K(S)
	87-026-463-080		TR,2SA933SRS
	87-A30-087-080		C-FET,2SK2158
	87-A30-257-080		C-TR,2SD1306E
	87-A30-073-080		C-TR,RT1N 141C
	87-A30-190-080		TR,CC5551
	87-A30-137-010		TR,2SD2494<LH,777U>
	87-A30-097-010		TR,FN 1016<767U>
	87-A30-138-010		TR,2SB1625<LH,777U>
	87-A30-098-010		TR,FP 1016<767U>
	87-A30-106-070		C-TR,CMBT5551
	87-A30-256-010		TR,2SD1933<LH,777U>
	87-A30-255-010		TR,2SB1342<LH,777U>
	87-A30-119-040		C-TR,2SC3906K R<LH,777U>
	87-A30-159-080		C-TR,KTA1298Y
	87-A30-105-080		C-TR,RT1P 441C
	87-A30-142-040		C-TR,DTA123EKA
	87-A30-240-080		TR,CSA1585BC
	87-A30-196-080		TR,2SC4115SRS
	89-327-143-080		TR,2SC2714 (0.1W)
DIODE			
	87-020-465-080		DIODE,1SS133 (110MA)
	87-017-654-060		DIODE,GBU6JL6131
	87-070-274-080		DIODE,1N4003 SEM
	87-A40-547-090		DIODE,D5SBA20<767U>
	87-017-447-010		DIODE,GBU4DL-6419<777U>
	87-A40-341-080		ZENER,MTZJ 36 A
	87-A40-345-080		ZENER,MTZJ10C
	87-A40-183-090		DIODE,RK36(F)
	87-070-136-080		ZENER,MTZJ5.1B
	87-A40-442-080		ZENER,MTZJ9.1A<LH>
	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
	87-020-331-080		CHIP-DIODE,DAN202K
	87-017-932-080		ZENER,MTJ6.2B
	87-A40-002-080		ZENER,MTZJ5.1C
	87-A40-438-080		ZENER,MTZJ4.7A
	87-A40-234-080		ZENER,MTZJ5.6A
	87-017-931-080		ZENER,MTZJ5.6B
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	87-010-928-090		CAP,E 4700-25 SMG
C10	87-010-928-090		CAP,E 4700-25 SMG
C21	87-010-385-080		CAP, ELECT 220-25V
C22	87-010-385-080		CAP, ELECT 220-25V
C23	87-010-385-080		CAP, ELECT 220-25V
C24	87-010-385-080		CAP, ELECT 220-25V
C25	87-010-409-080		CAP, ELECT 220-50
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<777U,767U>
C29	87-010-384-080		CAP, ELECT 100-25V
C30	87-010-112-080		CAP, ELECT 100-16V
C31	87-010-235-080		CAP,E 470-16 SME
C32	87-012-368-080		C-CAP,S 0.1-50 F
C33	87-016-299-080		CAP,E 10-100 SME
C34	87-016-299-080		CAP,E 10-100 SME
C61	87-010-260-080		CAP, ELECT 47-25V
C62	87-010-496-080		CAP,E 3.3-50 5L
C101	87-010-183-080		C-CAP,S 2700P-50 B<767U>
C101	87-010-178-080		CHIP CAP 1000P<LH,777U>
C102	87-010-183-080		C-CAP,S 2700P-50 B<767U>
C102	87-010-178-080		CHIP CAP 1000P<LH,777U>
C103	87-010-400-080		CAP, ELECT 0.47-50V<767U>
C103	87-010-405-080		CAP, ELECT 10-50V<LH,777U>
C104	87-010-400-080		CAP, ELECT 0.47-50V<767U>
C104	87-010-405-080		CAP, ELECT 10-50V<LH,777U>
C105	87-010-186-080		CAP,CHIP 4700P<767U>
C106	87-010-186-080		CAP,CHIP 4700P<767U>
C107	87-010-403-080		CAP, ELECT 3.3-50V<767U>
C107	87-010-408-080		CAP, ELECT 47-50V<LH,777U>
C108	87-010-403-080		CAP, ELECT 3.3-50V<767U>
C108	87-010-408-080		CAP, ELECT 47-50V<LH,777U>
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
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
C133	87-010-197-080		CAP, CHIP 0.01 DM
C136	87-010-196-080		CHIP CAPACITOR,0.1-25
C203	87-010-177-080		C-CAP,S 820P-50 SL<LH,777U>
C204	87-010-177-080		C-CAP,S 820P-50 SL<LH,777U>
C209	87-010-403-080		CAP, ELECT 3.3-50V<LH,777U>
C210	87-010-403-080		CAP, ELECT 3.3-50V<LH,777U>
C211	87-010-181-080		CAP,CHIP S 1800P<LH,777U>
C212	87-010-181-080		CAP,CHIP S 1800P<LH,777U>
C213	87-010-403-080		CAP, ELECT 3.3-50V<LH,777U>
C214	87-010-403-080		CAP, ELECT 3.3-50V<LH,777U>
C217	87-010-260-080		CAP, ELECT 47-25V<LH,777U>
C218	87-010-260-080		CAP, ELECT 47-25V<LH,777U>
C219	87-A10-946-080		C-CAP,S 220P-100 J CH<LH,777U>
C220	87-A10-946-080		C-CAP,S 220P-100 J CH<LH,777U>
C225	87-012-368-080		C-CAP,S 0.1-50 F<LH,777U>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C226	87-012-368-080		C-CAP,S 0.1-50 F<LH,777U>
C227	87-010-186-080		CAP,CHIP 4700P<LH,777U>
C228	87-010-186-080		CAP,CHIP 4700P<LH,777U>
C229	87-010-993-080		C-CAP,S 0.056-25 B<LH,777U>
C230	87-010-993-080		C-CAP,S 0.056-25 B<LH,777U>
C231	87-010-196-080		CHIP CAPACITOR,0.1-25<LH,777U>
C232	87-010-196-080		CHIP CAPACITOR,0.1-25<LH,777U>
C235	87-016-285-080		CAP,E 47-100SME<LH,777U>
C236	87-016-285-080		CAP,E 47-100SME<LH,777U>
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
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	87-010-179-080		CAP,CHIP S B1200P
C314	87-010-179-080		CAP,CHIP S B1200P
C315	87-010-179-080		CHIP CAP 1200P
C316	87-010-179-080		CHIP CAP 1200P
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-A10-292-080		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	87-010-382-080		CAP, ELECT 22-25V
C380	87-010-382-080		CAP, ELECT 22-25V
C381	87-010-197-080		CAP, CHIP 0.01 DM
C382	87-010-312-080		C-CAP,S 15P-50 CH
C383	87-010-197-080		CAP, CHIP 0.01 DM
C384	87-010-402-080		CAP, ELECT 2.2-50V
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
C401	87-010-196-080		CHIP CAPACITOR,0.1-25
C402	87-010-260-080		CAP, ELECT 47-25V
C403	87-010-404-080		CAP, ELECT 4.7-50V
C404	87-010-404-080		CAP, ELECT 4.7-50V
C405	87-010-404-080		CAP, ELECT 4.7-50V
C406	87-010-404-080		CAP, ELECT 4.7-50V
C407	87-010-188-080		CAP,CHIP 6800P
C408	87-010-188-080		CAP,CHIP 6800P
C409	87-012-140-080		CAP 470P
C410	87-012-140-080		CAP 470P
C411	87-010-404-080		CAP, ELECT 4.7-50V
C412	87-010-404-080		CAP, ELECT 4.7-50V
C413	87-010-404-080		CAP, ELECT 4.7-50V
C414	87-010-404-080		CAP, ELECT 4.7-50V
C415	87-010-197-080		CAP, CHIP 0.01 DM
C416	87-010-197-080		CAP, CHIP 0.01 DM
C417	87-010-956-080		CHIP-CAP,S 0.068-25B
C418	87-010-956-080		CHIP-CAP,S 0.068-25B
C419	87-010-260-080		CAP, ELECT 47-25V
C451	87-010-401-080		CAP, ELECT 1-50V<LH,777U>
C451	87-010-404-080		CAP, ELECT 4.7-50V<767U>
C452	87-010-401-080		CAP, ELECT 1-50V<LH,777U>
C452	87-010-404-080		CAP, ELECT 4.7-50V<767U>
C455	87-A10-305-080		CAP,M 0.068-50 J<LH,777U>
C456	87-A10-305-080		CAP,M 0.068-50 J<LH,777U>
C457	87-010-196-080		CHIP CAPACITOR,0.1-25<LH,777U>
C458	87-010-196-080		CHIP CAPACITOR,0.1-25<LH,777U>
C459	87-A10-299-080		CAP,M 0.022-50 J<LH,777U>
C460	87-A10-299-080		CAP,M 0.022-50 J<LH,777U>
C461	87-018-119-080		CAP,TC-U 100P-50 K B<LH,777U>
C465	87-A10-299-080		CAP,M 0.022-50 J<LH,777U>
C466	87-A10-299-080		CAP,M 0.022-50 J<LH,777U>
C601	87-010-183-080		C-CAP,S 2700P-50 B
C602	87-010-183-080		C-CAP,S 2700P-50 B
C611	87-010-197-080		CAP, CHIP 0.01 DM
C613	87-016-081-080		C-CAP,S 0.1-16 RK
C614	87-016-081-080		C-CAP,S 0.1-16 RK
C617	87-A10-304-080		CAP,M 0.056-50 J
C618	87-A10-304-080		CAP,M 0.056-50 J
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-A10-307-080		CAP,M 0.1-50 J
C624	87-A10-307-080		CAP,M 0.1-50 J
C625	87-010-401-080		CAP, ELECT 1-50V
C626	87-010-401-080		CAP, ELECT 1-50V
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	87-010-992-080		C-CAP,S 0.047-25 B
C637	87-010-183-080		C-CAP,S 2700P-50 B
C640	87-010-314-080		C-CAP,S 22P-50V
C641	87-010-196-080		CHIP CAPACITOR,0.1-25
C736	87-010-196-080		CHIP CAPACITOR,0.1-25
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
CNA1	8Z-NF8-669-010		CONN ASSY,9P VH
CON351	87-NF6-616-010		CONN ASSY,8P RPB
J201	87-A60-483-010		JACK,DIA6.3 BLK ST W/S<LH,777U>
J201	87-A60-488-010		JACK,DIA6.3 BLK ST W/SW<767U>
J203	87-033-240-010		TERMINAL,SP 4P32SV1-05
J204	87-A60-750-010		JACK,PIN 4P R/W BLUE<LH,777U>
J204	87-A60-641-010		JACK,PIN 4P R/W/B JALCO<767U>
J601	87-A60-402-010		JACK,PIN 6P R/W HSP-246V30
L101	87-003-383-010		COIL,1UH-S
L102	87-003-383-010		COIL,1UH-S
L201	87-003-383-010		COIL,1UH-S<LH,777U>
L202	87-003-383-010		COIL,1UH-S<LH,777U>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
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<777U,767U>
R129	87-A00-257-080		RES,M/F 0.15-1W J<777U>
R129	87-A00-262-080		RES,M/F 0.15-2W J<LH,767U>
R130	87-A00-257-080		RES,M/F 0.15-1W J<777U>
R130	87-A00-262-080		RES,M/F 0.15-2W J<LH,767U>
R131	87-A00-257-080		RES,M/F 0.15-1W J<777U>
R131	87-A00-262-080		RES,M/F 0.15-2W J<LH,767U>
R132	87-A00-257-080		RES,M/F 0.15-1W J<777U>
R132	87-A00-262-080		RES,M/F 0.15-2W J<LH,767U>
R143	87-A00-440-050		RES,220-1/2W J RP
R144	87-A00-440-050		RES,220-1/2W J RP
R145	87-A00-440-050		RES,220-1/2W J RP
R146	87-A00-440-050		RES,220-1/2W J RP
R165	87-A00-257-080		RES,M/F 0.15-1W J<777U>
R165	87-A00-262-080		RES,M/F 0.15-2W J<LH,767U>
R166	87-A00-257-080		RES,M/F 0.15-1W J<777U>
R166	87-A00-262-080		RES,M/F 0.15-2W J<LH,767U>
R231	87-A00-258-080		RES,M/F 0.22-1W J<LH,777U>
R232	87-A00-258-080		RES,M/F 0.22-1W J<LH,777U>
R233	87-A00-258-080		RES,M/F 0.22-1W J<LH,777U>
R234	87-A00-258-080		RES,M/F 0.22-1W J<LH,777U>
R265	87-A00-258-080		RES,M/F 0.22-1W J<LH,777U>
R266	87-A00-258-080		RES,M/F 0.22-1W J<LH,777U>
SFR351	87-A90-433-080		SFR,50K H NVZ6TLTA
SFR352	87-A90-433-080		SFR,50K H NVZ6TLTA
TH101	87-A91-042-080		C-THMS,100K 55001
TH102	87-A91-042-080		C-THMS,100K 55001
WH1	87-A90-510-010		HLDR,WIRE 2.5-9P
FRONT C.B			
C103	87-010-178-080		CHIP CAP 1000P
C105	87-010-322-080		C-CAP,S 100P-50 CH
C106	87-010-312-080		C-CAP,S 15P-50 CH
C107	87-012-157-080		C-CAP,S 330P-50 CH
C108	87-010-405-040		CAP,E 10-50
C111	87-A11-242-040		CAP,E 220-10 M 5L SRM
C112	87-016-081-080		C-CAP,S 0.1-16 RK
C113	87-A11-242-040		CAP,E 220-10 M 5L SRM
C114	87-010-196-080		CHIP CAPACITOR,0.1-25
C115	87-010-198-080		CAP, CHIP 0.022
C116	87-010-493-040		CAP,E 0.47-50 GAS
C117	87-010-498-040		CAP,E 10-16 GAS
C121	87-012-368-080		C-CAP,S 0.1-50 F
C122	87-010-178-080		CHIP CAP 1000P
C123	87-010-196-080		CHIP CAPACITOR,0.1-25
C124	87-010-196-080		CHIP CAPACITOR,0.1-25
C125	87-010-196-080		CHIP CAPACITOR,0.1-25
C126	87-012-145-080		CAP, CHIP S 270P CH
C151	87-010-194-080		CAP, CHIP 0.047
C153	87-010-196-080		CHIP CAPACITOR,0.1-25
C154	87-010-264-040		CAP,E 100-10 5L
C181	87-012-157-080		C-CAP,S 330P-50 CH
C182	87-010-197-080		CAP, CHIP 0.01 DM
C183	87-010-182-080		C-CAP,S 2200P-50 B
C202	87-012-140-080		CAP 470P
C211	87-012-157-080		C-CAP,S 330P-50 CH
C212	87-012-157-080		C-CAP,S 330P-50 CH
C213	87-012-157-080		C-CAP,S 330P-50 CH
C214	87-012-157-080		C-CAP,S 330P-50 CH
C221	87-010-404-040		CAP,E 4.7-50 SME
C222	87-010-404-040		CAP,E 4.7-50 SME
C223	87-010-408-040		CAP,E 47-50 SME
C224	87-012-369-080		C-CAP,S 0.047-50F
C381	87-010-196-080		CHIP CAPACITOR,0.1-25
C382	87-012-158-080		C-CAP,S 390P-50 CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C383	87-010-196-080		CHIP CAPACITOR,0.1-25
C384	87-010-196-080		CHIP CAPACITOR,0.1-25
C385	87-010-196-080		CHIP CAPACITOR,0.1-25
C386	87-010-196-080		CHIP CAPACITOR,0.1-25
C387	87-010-196-080		CHIP CAPACITOR,0.1-25
C401	87-010-196-080		CHIP CAPACITOR,0.1-25
C402	87-010-196-080		CHIP CAPACITOR,0.1-25
C403	87-010-322-080		C-CAP,S 100P-50 CH
C404	87-010-322-080		C-CAP,S 100P-50 CH
C405	87-010-322-080		C-CAP,S 100P-50 CH
C406	87-010-322-080		C-CAP,S 100P-50 CH
C407	87-010-322-080		C-CAP,S 100P-50 CH
C408	87-010-322-080		C-CAP,S 100P-50 CH
C411	87-010-401-040		CAP,E 1-50 SME
C501	87-010-544-040		CAP,E 0.1-50 SME
C502	87-010-196-080		CHIP CAPACITOR,0.1-25
C503	87-010-544-040		CAP,E 0.1-50 SME
C504	87-012-156-080		C-CAP,S 220P-50 CH
C505	87-010-178-080		CHIP CAP 1000P
C601	87-010-186-080		CAP,CHIP 4700P
C603	87-010-320-080		CHIP CAP 68P
C604	87-010-546-040		CAP,E 0.33-50
C605	87-010-196-080		CHIP CAPACITOR,0.1-25
C606	87-010-112-040		CAP,E 100-16
C607	87-010-196-080		CHIP CAPACITOR,0.1-25
C652	87-010-183-080		C-CAP,S 2700P-50 B
C653	87-010-213-080		C-CAP,S 0.015-50 B
C802	87-010-168-080		C-CAP,S 150P-50 SL
C804	87-010-187-080		C-CAP,S 5600P-50 B
C806	87-010-401-040		CAP,E 1-50 SME
C807	87-010-196-080		CHIP CAPACITOR,0.1-25
C809	87-012-155-080		C-CAP 180P-50CH
C810	87-010-263-040		CAP,E 100-10
C811	87-010-382-040		CAP,E 22-25 SME
C812	87-010-405-040		CAP,E 10-50
CN101	87-099-720-010		CONN,30P TYK-B(P)
CN104	87-A60-140-010		CONN,15P V FE
CN301	87-A60-131-010		CONN,6P V FE
CN901	87-A60-138-010		CONN,13P V FE
FB601	87-A50-190-080		C-COIL,S BLM21A102S
FC104	88-915-121-110		FF-CABLE, 15P 1.25
FC301	85-NF5-617-010		CABLE,FFC 6P-1.25
FC901	85-NF5-618-010		CABLE,FFC 13P-1.25
FL201	8Z-NF7-610-010		FL,BJ679GK
J601	87-A60-651-010		JACK,3.5MONO
L101	87-A50-333-010		COIL,OSC 9.43MHZ
L801	87-A50-093-010		COIL,CLOCK 5.76MHZ
LED293	87-A40-589-040		LED,SLR-56VCT31 RED
LED401	87-A40-317-080		LED,SLR-342VCT31 RED
LED402	87-A40-317-080		LED,SLR-342VCT31 RED
LED403	87-A40-317-080		LED,SLR-342VCT31 RED
LED404	87-A40-317-080		LED,SLR-342VCT31 RED
LED405	87-A40-317-080		LED,SLR-342VCT31 RED
LED406	87-A40-496-040		LED,SLR-342MCT31 GRN
LED407	87-A40-496-040		LED,SLR-342MCT31 GRN
LED408	87-A40-496-040		LED,SLR-342MCT31 GRN
LED409	87-A40-496-040		LED,SLR-342MCT31 GRN
LED410	87-A40-496-040		LED,SLR-342MCT31 GRN
LED411	87-A40-496-040		LED,SLR-342MCT31 GRN
LED412	87-A40-496-040		LED,SLR-342MCT31 GRN
LED413	87-A40-496-040		LED,SLR-342MCT31 GRN
LED414	87-A40-496-040		LED,SLR-342MCT31 GRN
LED415	87-A40-496-040		LED,SLR-342MCT31 GRN
LED416	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED417	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED418	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED419	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED420	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED421	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED433	87-A40-631-010		LED,SEL1550CM-LF55 GRN

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
LED434	87-A40-631-010		LED,SEL1550CM-LF55 GRN
LED435	87-A40-631-010		LED,SEL1550CM-LF55 GRN
LED436	87-A40-631-010		LED,SEL1550CM-LF55 GRN
LED461	87-A40-632-010		LED,SEL1250SM-LF55 RED
LED462	87-A40-632-010		LED,SEL1250SM-LF55 RED
LED481	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED482	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED483	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED484	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED485	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED486	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED487	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED488	87-A40-619-040		LED,SLR-56PT-T31-W GRN
S101	87-A90-471-010		SW,RTRY EC16B24304-25 NON
S102	87-A91-018-010		SW,RTRY EC12E12504ENC-30
S301	87-A90-095-080		SW,TACT EVQ11G04M
S302	87-A90-095-080		SW,TACT EVQ11G04M
S303	87-A90-095-080		SW,TACT EVQ11G04M
S308	87-A90-095-080		SW,TACT EVQ11G04M
S309	87-A90-095-080		SW,TACT EVQ11G04M
S310	87-A90-095-080		SW,TACT EVQ11G04M
S311	87-A90-095-080		SW,TACT EVQ11G04M
S312	87-A90-095-080		SW,TACT EVQ11G04M
S313	87-A90-095-080		SW,TACT EVQ11G04M
S321	87-A90-095-080		SW,TACT EVQ11G04M
S322	87-A90-095-080		SW,TACT EVQ11G04M
S323	87-A90-095-080		SW,TACT EVQ11G04M
S324	87-A90-095-080		SW,TACT EVQ11G04M
S325	87-A90-095-080		SW,TACT EVQ11G04M
S326	87-A90-095-080		SW,TACT EVQ11G04M
S327	87-A90-095-080		SW,TACT EVQ11G04M
S329	87-A90-095-080		SW,TACT EVQ11G04M
S332	87-A90-095-080		SW,TACT EVQ11G04M
S333	87-A90-095-080		SW,TACT EVQ11G04M
S334	87-A90-095-080		SW,TACT EVQ11G04M
S335	87-A90-095-080		SW,TACT EVQ11G04M
S341	87-A90-095-080		SW,TACT EVQ11G04M
S342	87-A90-095-080		SW,TACT EVQ11G04M
S343	87-A90-095-080		SW,TACT EVQ11G04M
S344	87-A90-095-080		SW,TACT EVQ11G04M
S345	87-A90-095-080		SW,TACT EVQ11G04M
S346	87-A90-095-080		SW,TACT EVQ11G04M
S348	87-A90-095-080		SW,TACT EVQ11G04M
S349	87-A90-095-080		SW,TACT EVQ11G04M
S350	87-A90-095-080		SW,TACT EVQ11G04M
VR501	86-NFA-607-010		VR,RTRY 10K15AX1 1 V XV0121PVN

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
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
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-309PT C.B

SW C.B

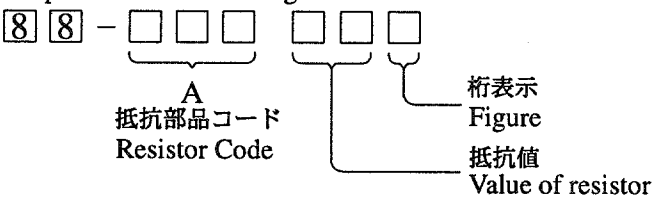
CN302	87-A60-131-010		CONN,6P V FE
LED438	87-A40-317-080		LED,SLR-342VCT31 RED
LED439	87-A40-317-080		LED,SLR-342VCT31 RED
LED440	87-A40-317-080		LED,SLR-342VCT31 RED
LED441	87-A40-637-040		LED,SLV-312MC GRN

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
LED442	87-A40-637-040		LED,SLV-312MC GRN
LED443	87-A40-637-040		LED,SLV-312MC GRN
LED444	87-A40-637-040		LED,SLV-312MC GRN
LED445	87-A40-637-040		LED,SLV-312MC GRN
S351	87-A90-095-080		SW,TACT EVQ11G04M
S352	87-A90-095-080		SW,TACT EVQ11G04M
S353	87-A90-095-080		SW,TACT EVQ11G04M
S354	87-A90-095-080		SW,TACT EVQ11G04M
S355	87-A90-095-080		SW,TACT EVQ11G04M
PT C.B			
C1	87-010-387-080		CAP,E 470-25 SME
C3	87-018-209-080		CAP, CER 0.1-50V
C4	87-018-209-080		CAP, CER 0.1-50V
C5	87-018-209-080		CAP, CER 0.1-50V
C6	87-018-209-080		CAP, CER 0.1-50V
C8	87-016-520-090		CAP,E 3300-65
C9	87-016-520-090		CAP,E 3300-65
C31	87-010-403-040		CAP,E 3.3-50 SME
CN1	87-A60-851-010		CONN,9P V VH
⚠ PR1	87-026-691-080		FUSE,10A 125V 251<777U,767U>
⚠ PR1	87-026-682-080		PROTECTOR,10A 60V491<LH>
⚠ PR2	87-026-691-080		FUSE,10A 125V 251<777U,767U>
⚠ PR2	87-026-682-080		PROTECTOR,10A 60V491<LH>
⚠ PR3	87-A91-276-080		FUSE,125MA 125V F 251<777U,767U>
⚠ PT1	8Z-NF7-622-010		PT,LH ZNF-7<LH>
⚠ PT1	8Z-NF7-621-010		PT,U ZNF-7<777U>
⚠ PT1	8Z-NF7-625-010		PT,U1 ZNF-7<767U>
⚠ PT2	8Z-NF8-663-010		PT,SUB ZNF-8(H)<LH>
⚠ PT2	8Z-NF8-661-010		PT,SUB ZNF-8(U)<777U,767U>
⚠ RY1	87-A91-281-010		RELAY,AC DC12V OSA-SS-212DM5<LH>
⚠ RY2	87-A90-976-010		RELAY,AC12V SDT-S-112LMR<777U,767U>
⚠ 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

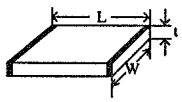
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
DECK C.B			
CON105	87-099-756-019		CONN, 15P 9604 S F
SFR1	87-024-581-019		SFR,3.3K DIA 6H
SOL1	82-ZM1-618-410		SOL ASSY, 27
SOL2	82-ZM1-618-410		SOL ASSY, 27
SW1	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW2	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW3	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW4	87-036-110-010		SW,MICRO SPPB62
SW5	87-036-110-010		SW,MICRO SPPB62
SW6	87-036-110-010		SW,MICRO SPPB62
SW8	87-A90-248-019		SW,MICRO ESE11SH2CXQ
SW9	87-A90-248-019		SW,MICRO ESE11SH2CXQ
W001	82-ZM3-601-019		RBN,CORD,4P-75
HEAD-1 C.B			
	85-ZM3-602-010		PWB,FLEX A
HEAD-2 C.B			
	85-ZM3-602-010		PWB,FLEX A

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

TRANSISTOR ILLUSTRATION

E C B

KTA1266GR
KTC3198GR
KTC3199GR

E C B

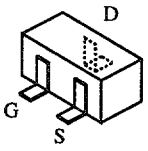
CC5551

E C B

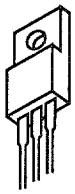
CSC4115BC
CSA1585BC

B C E

2SB1370
FN1016
FP1016
2SB1625
2SD2494
2SB1342
2SD1933



2SK2158

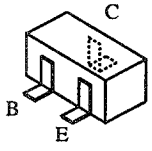


G D S

2SK3053

E C B

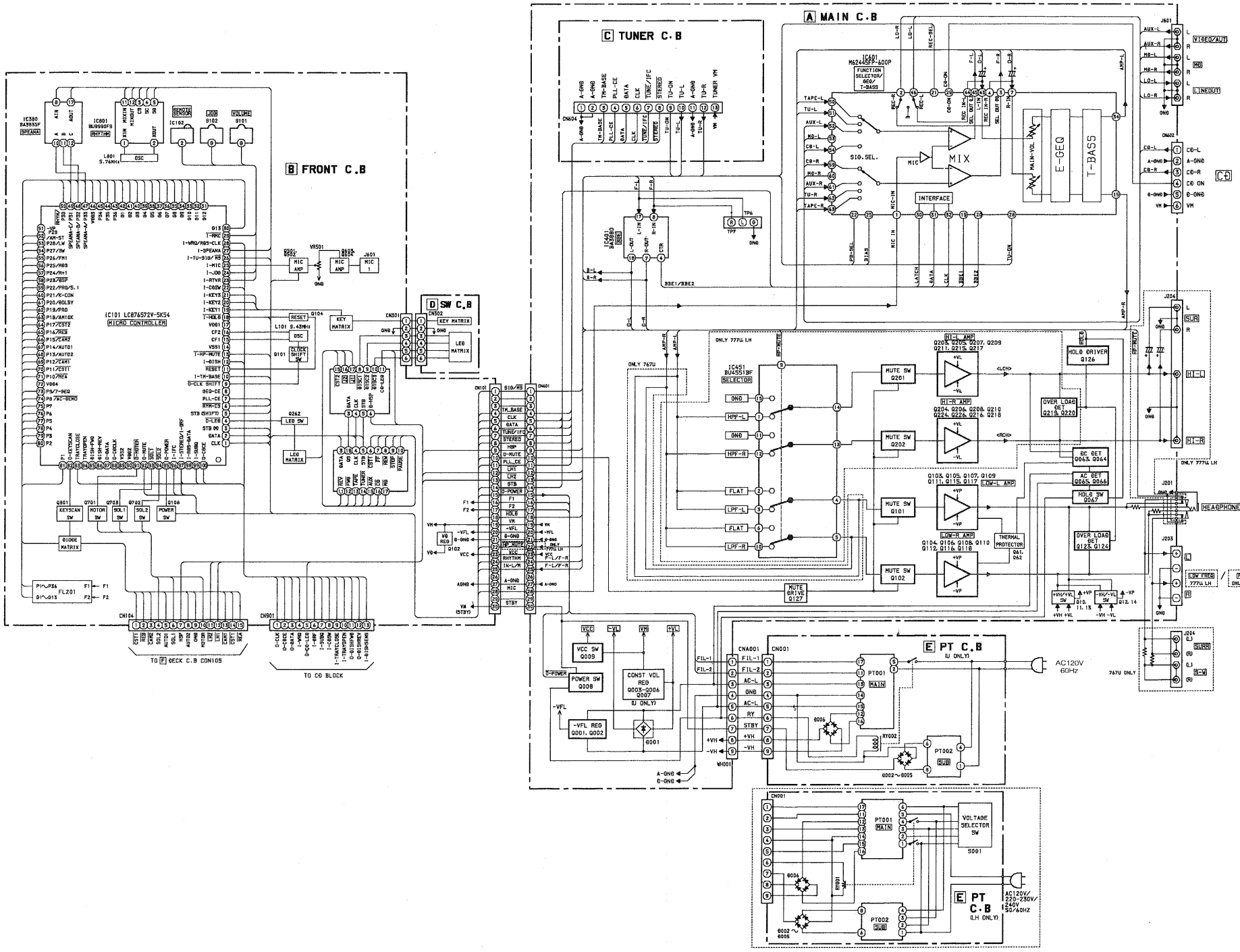
DTC114ES
2SA933SRS
2SC4115SRS



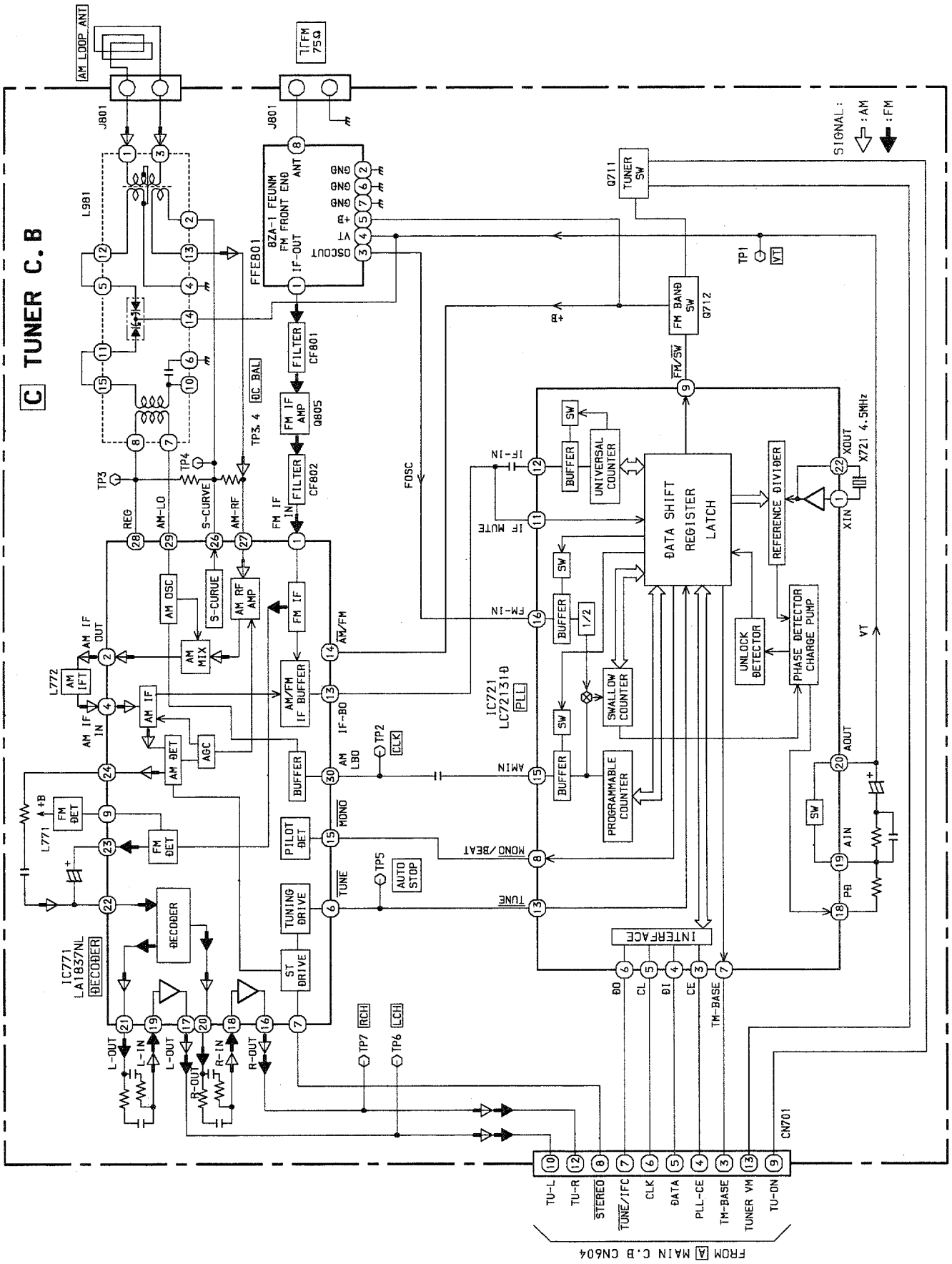
2SA1235F
2SC2714
2SC3052F
2SC3906KR
2SD1306E
2SA1514K
CMBT5551

KTA1298Y
RT1N141C
RT1P144C
RT1P441C
RT1P141C
DTA123EKA

BLOCK DIAGRAM – 1 (MAIN / FRONT)

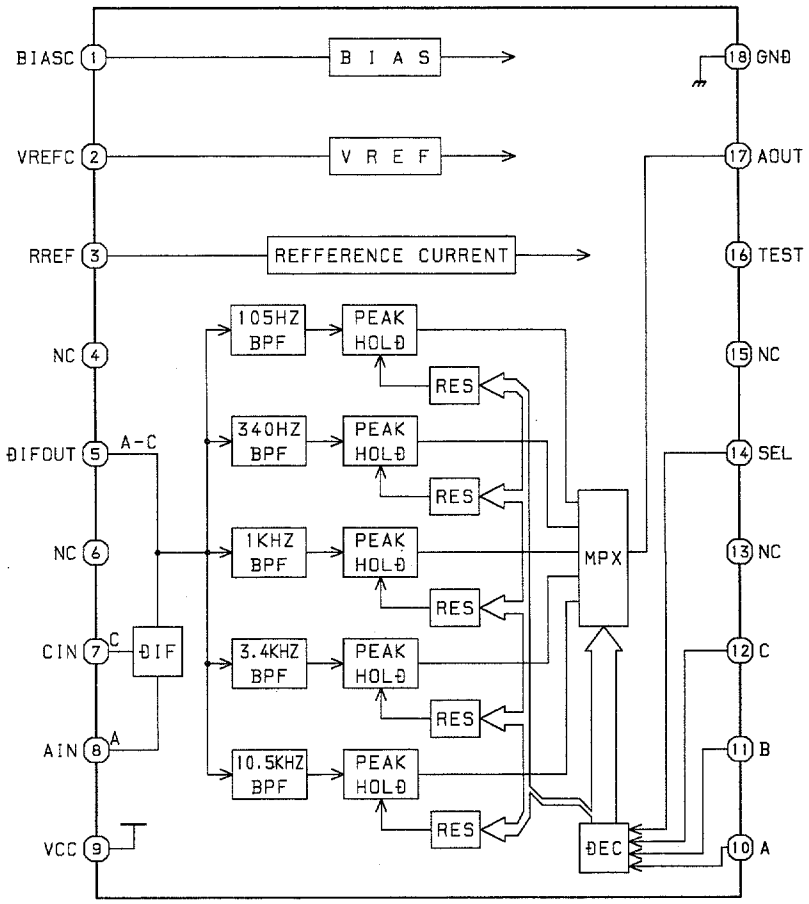


BLOCK DIAGRAM – 2 (TUNER)

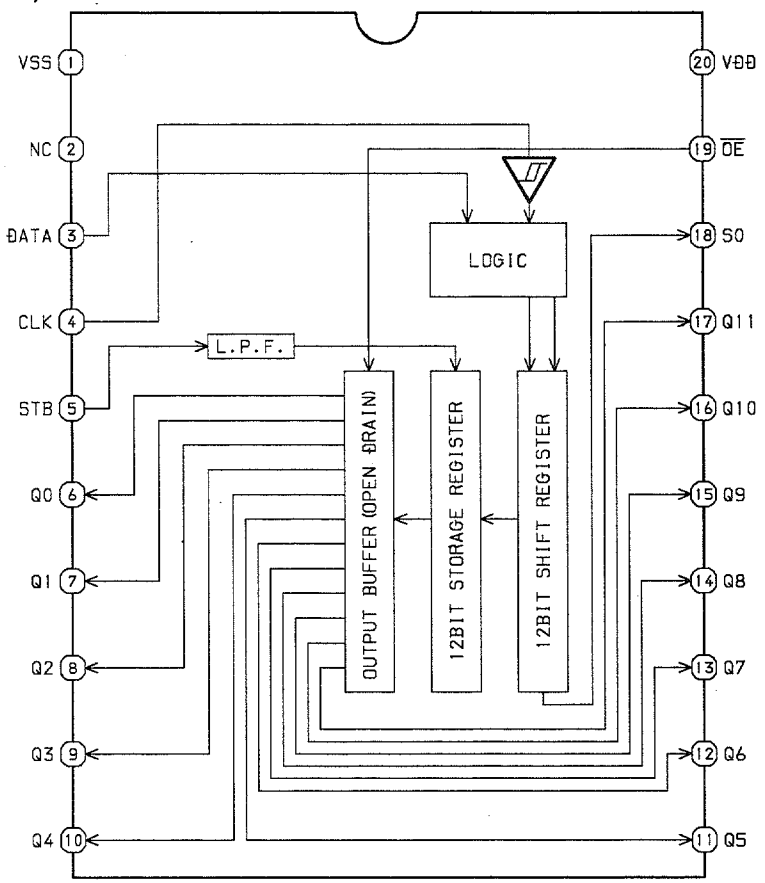


IC BLOCK DIAGRAM – 1

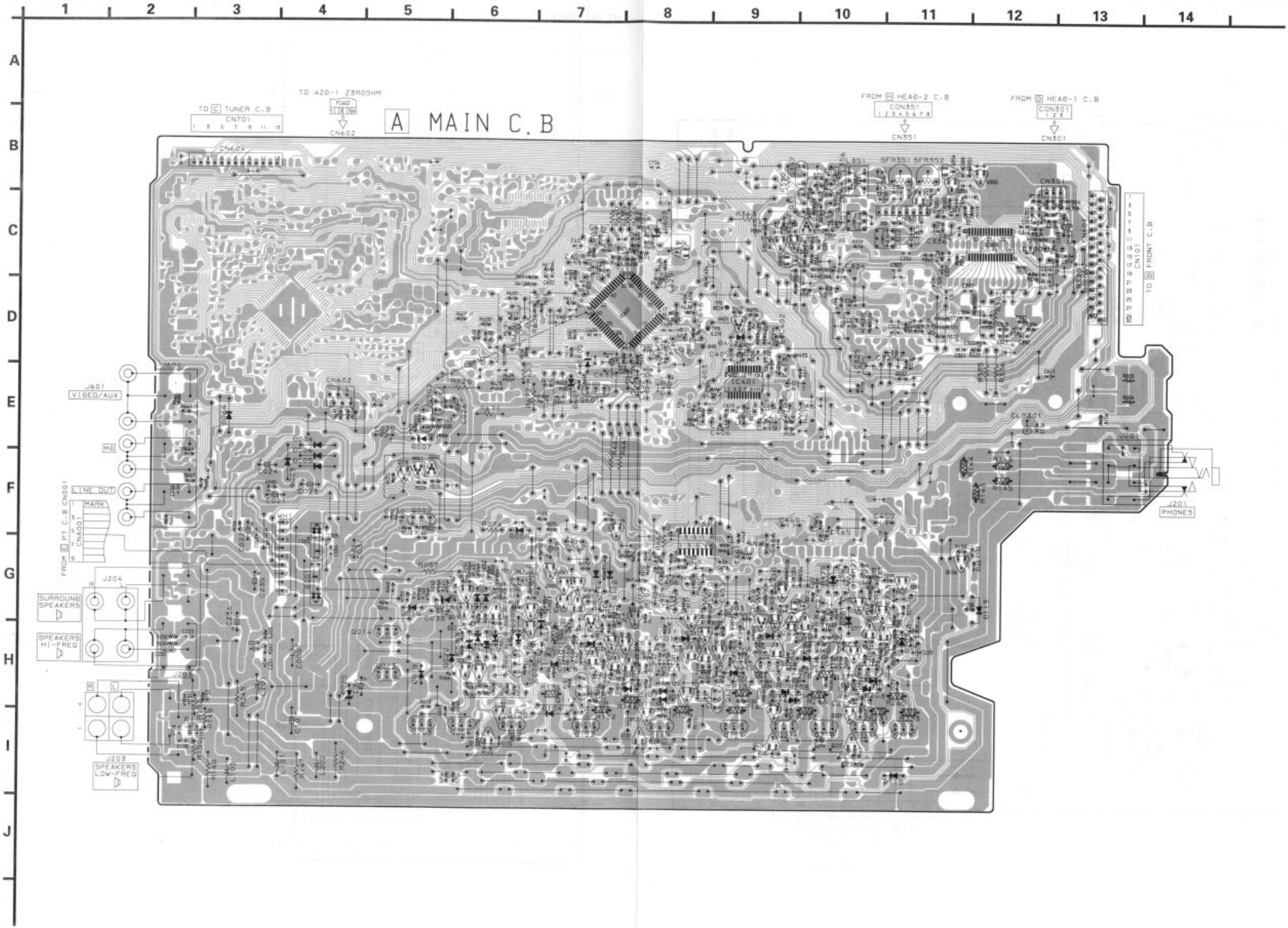
IC, BA3835F

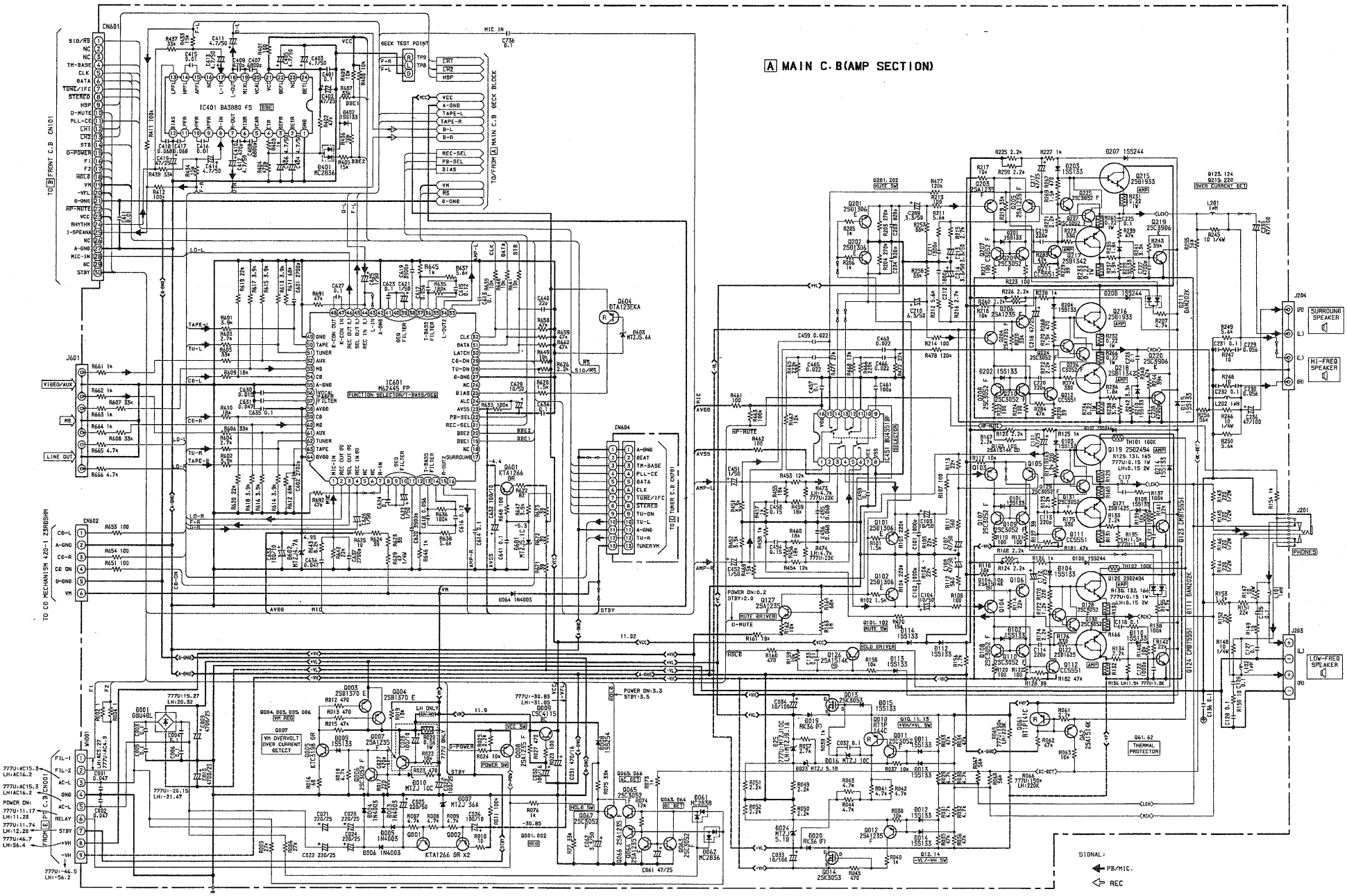


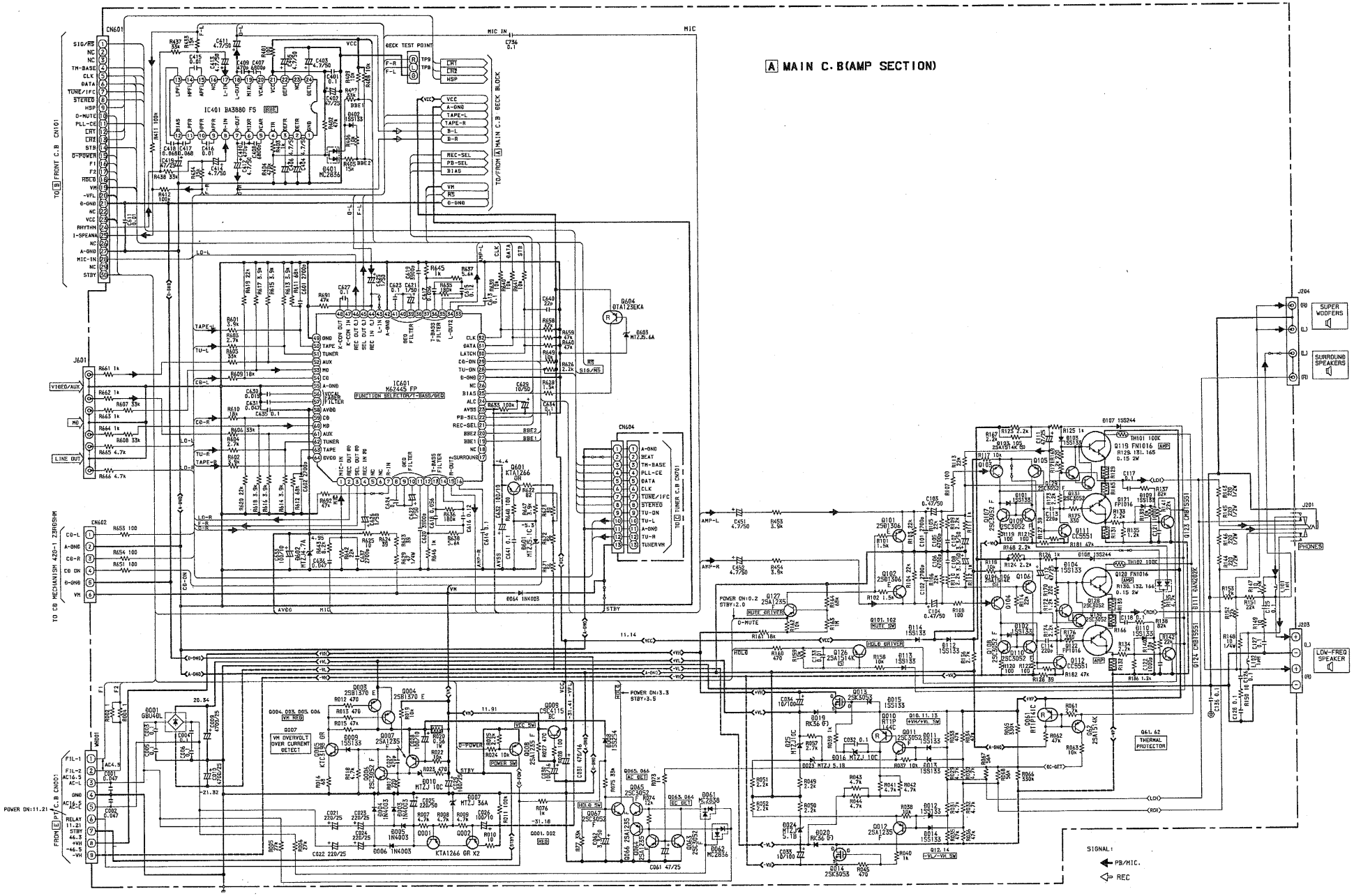
IC, BU2099FV



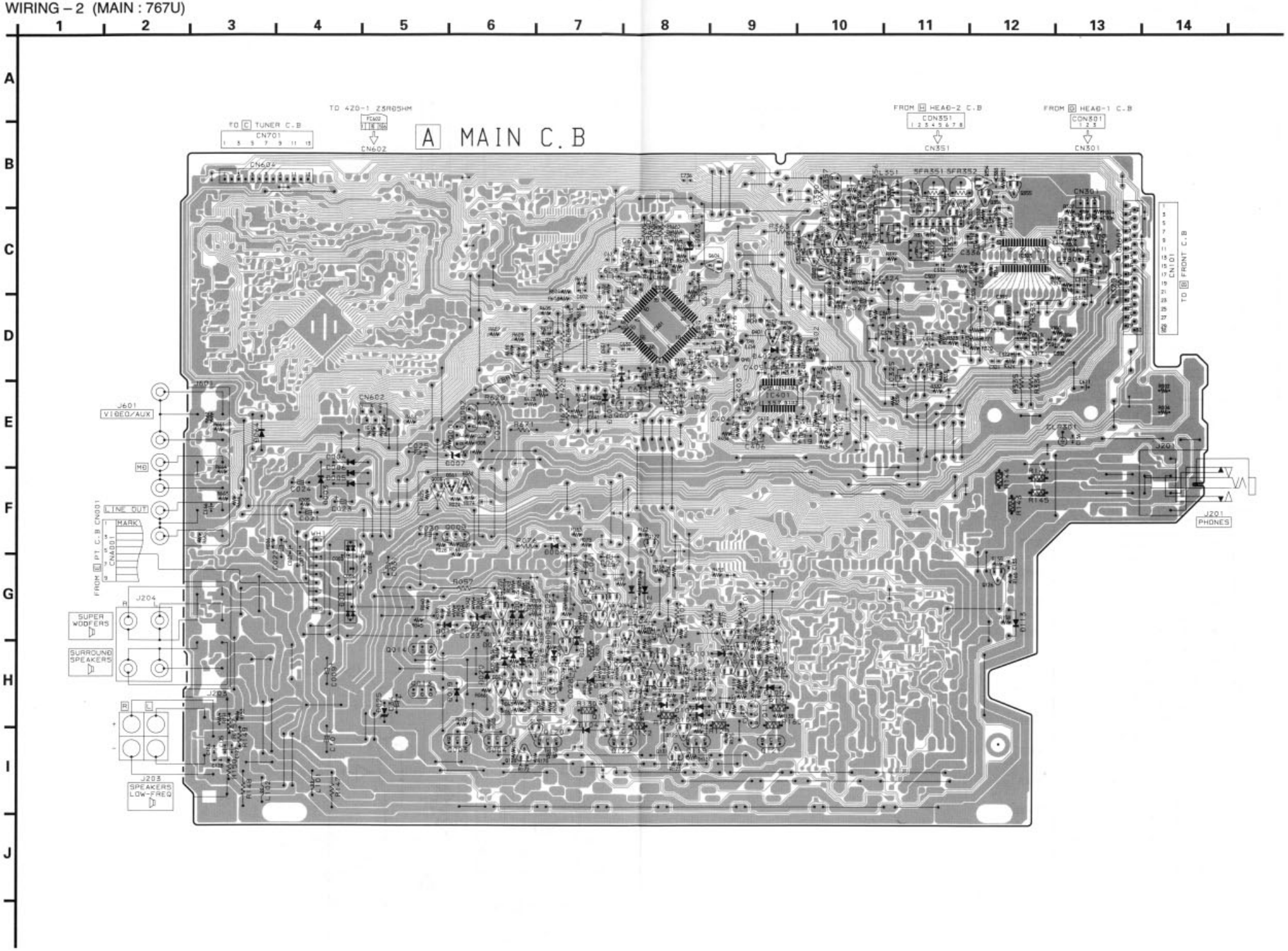
WIRING – 1 (MAIN : 777U, LH)




A MAIN C.B(AMP SECTION)
IC401 BA3880 FS
IC601 M62445 FP
FUNCTION SELECTOR/T-BASS/DEG
CN601
CN602
CN604
J601
J201
J203
J204
TO B FRONT C.B CN101
TO MECHANISM 420-1 2SR05HM
TO A MAIN C.B BECK BLOCK
TO G TUNER C.B CN701
SURROUND SPEAKER
HI-FREQ SPEAKER
LOW-FREQ SPEAKER
PHONES
VIDEO/AUX
MD
LINE OUT
TAPE
TUNER
BECK TEST POINT
OVER CURRENT DET
THERMAL PROTECTOR
SIGNAL:
PB/MIC.
REC

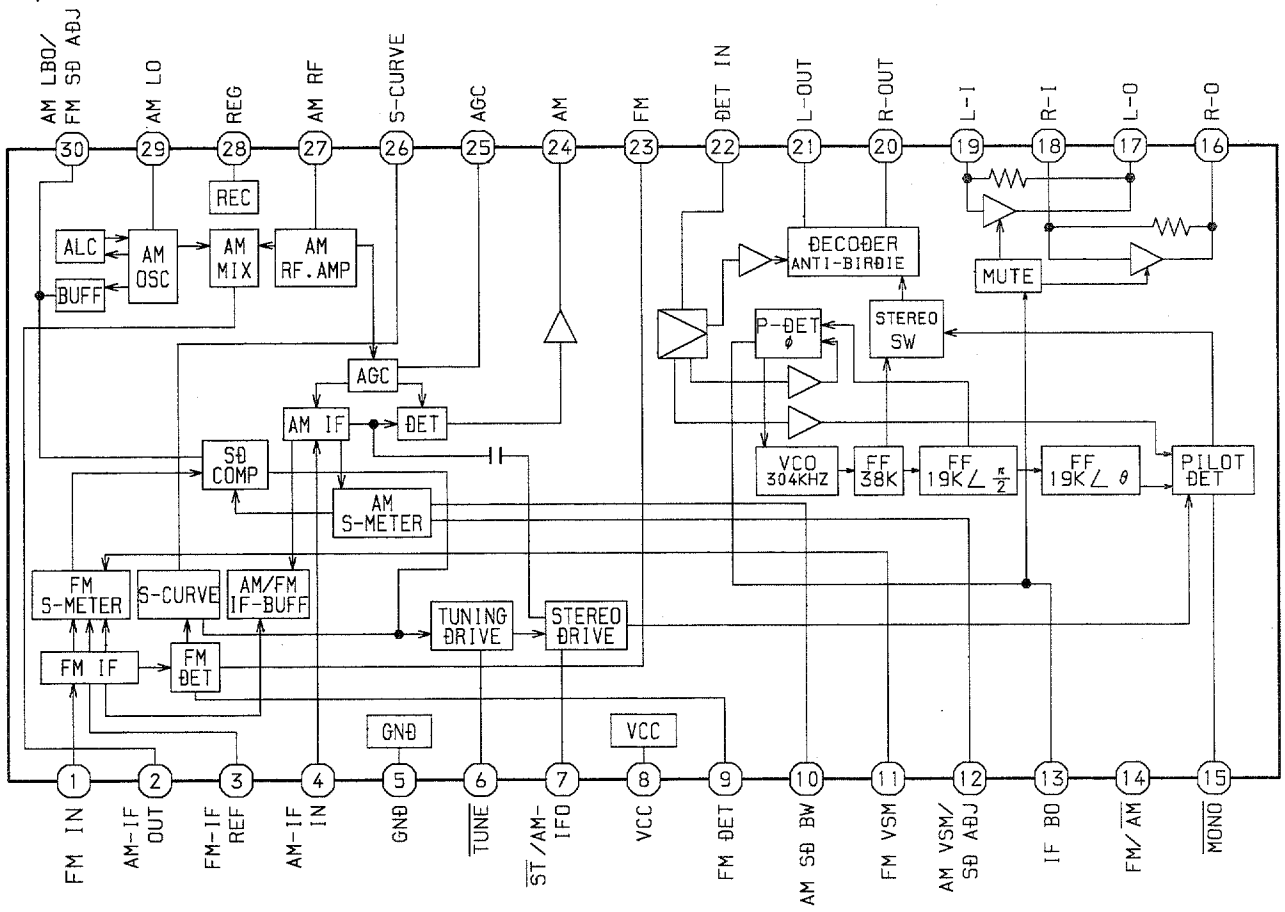

A MAIN C.B(AMP SECTION)
IC401 BA3880 FS
IC601 M62445 FP
FUNCTION SELECTOR/T-BASS/GEQ
SUPER WOOFERS
SURROUND SPEAKERS
PHONES
LOW-FREQ SPEAKER
SIGNAL:
PB/MIC.
REC

WIRING – 2 (MAIN : 767U)

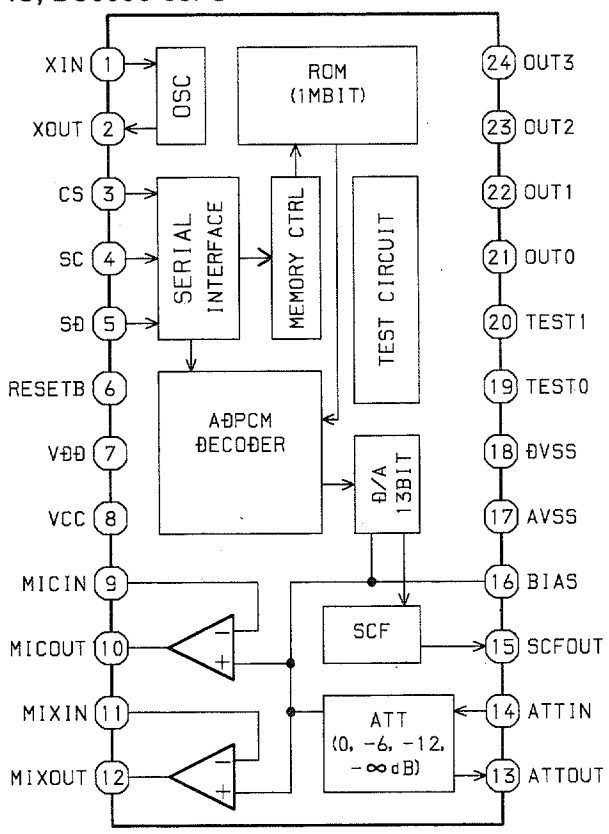


IC BLOCK DIAGRAM – 2

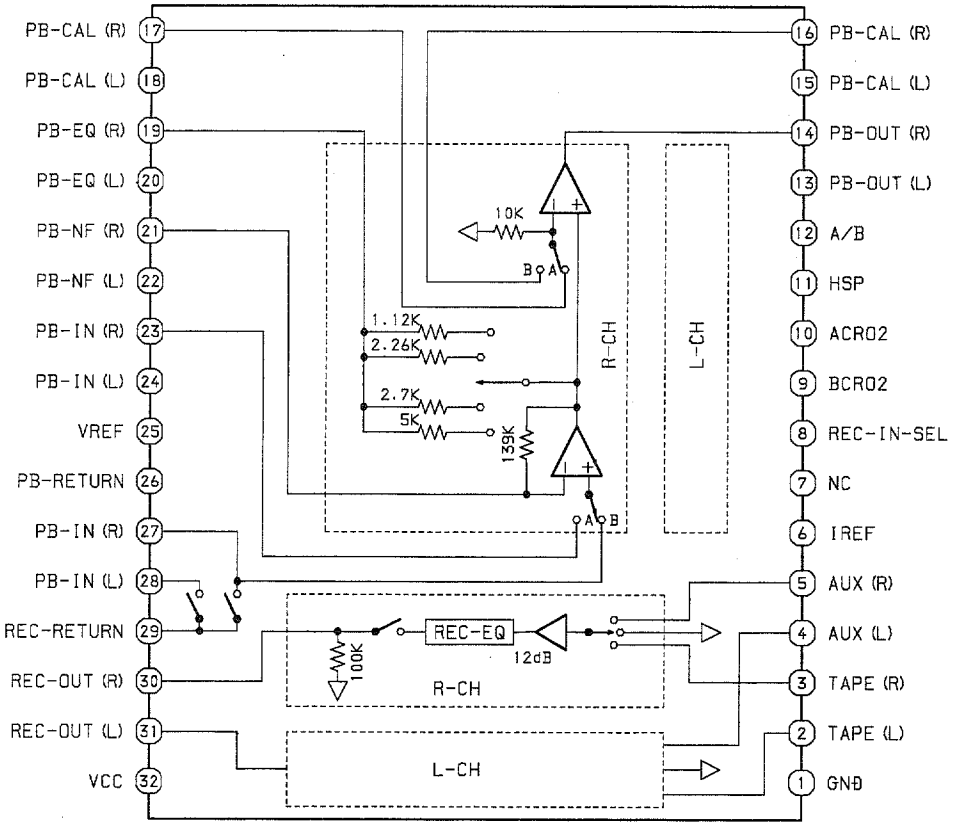
IC, LA1837NL



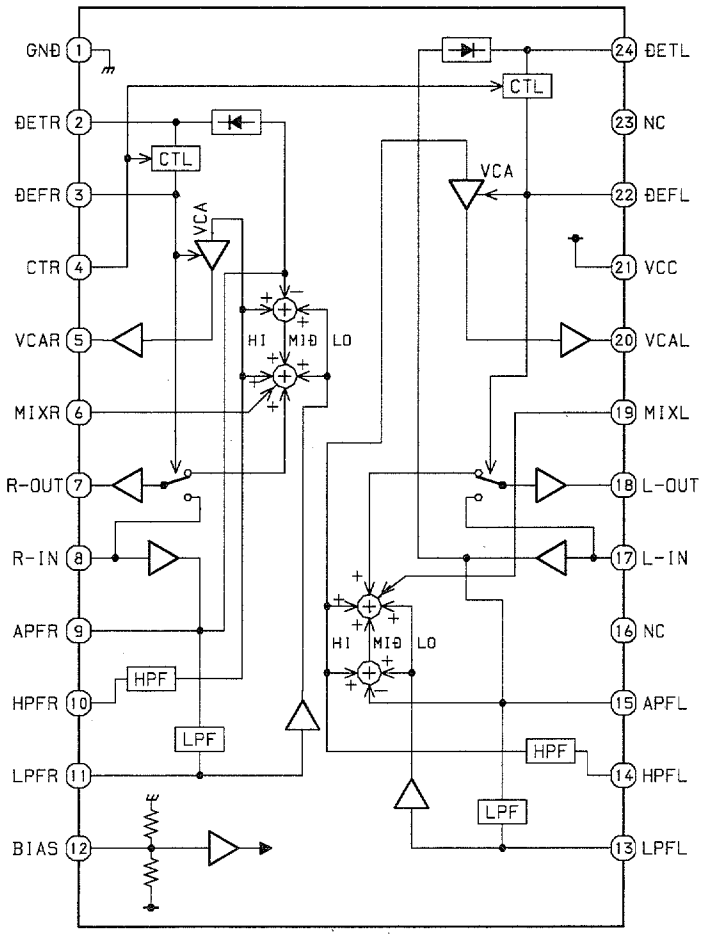
IC, BU9990-03FS



IC, BA7762AFS

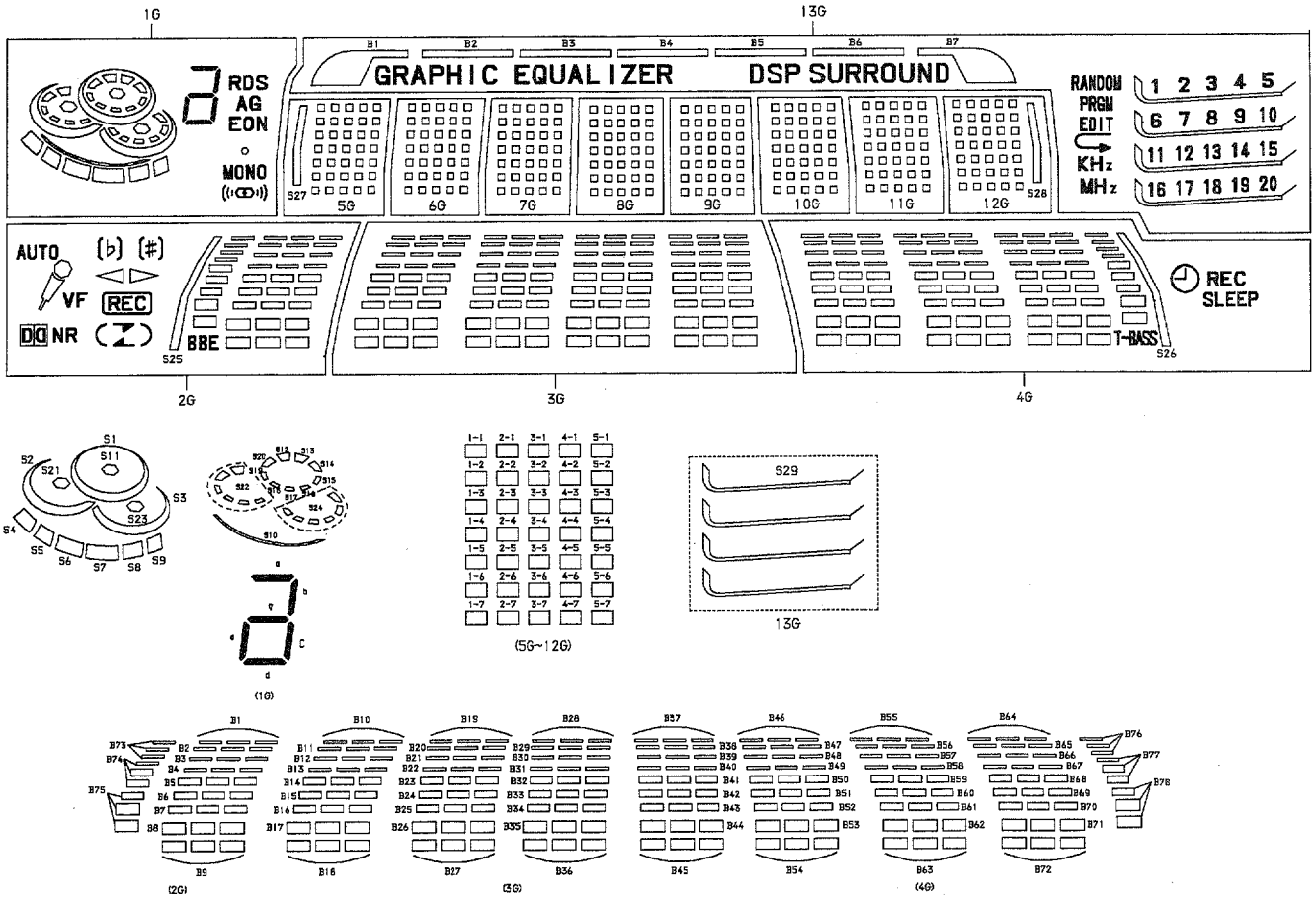


IC, BA3880FS



FL (BJ679GK) GRID ASSIGNMENT AND ANODE CONNECTION

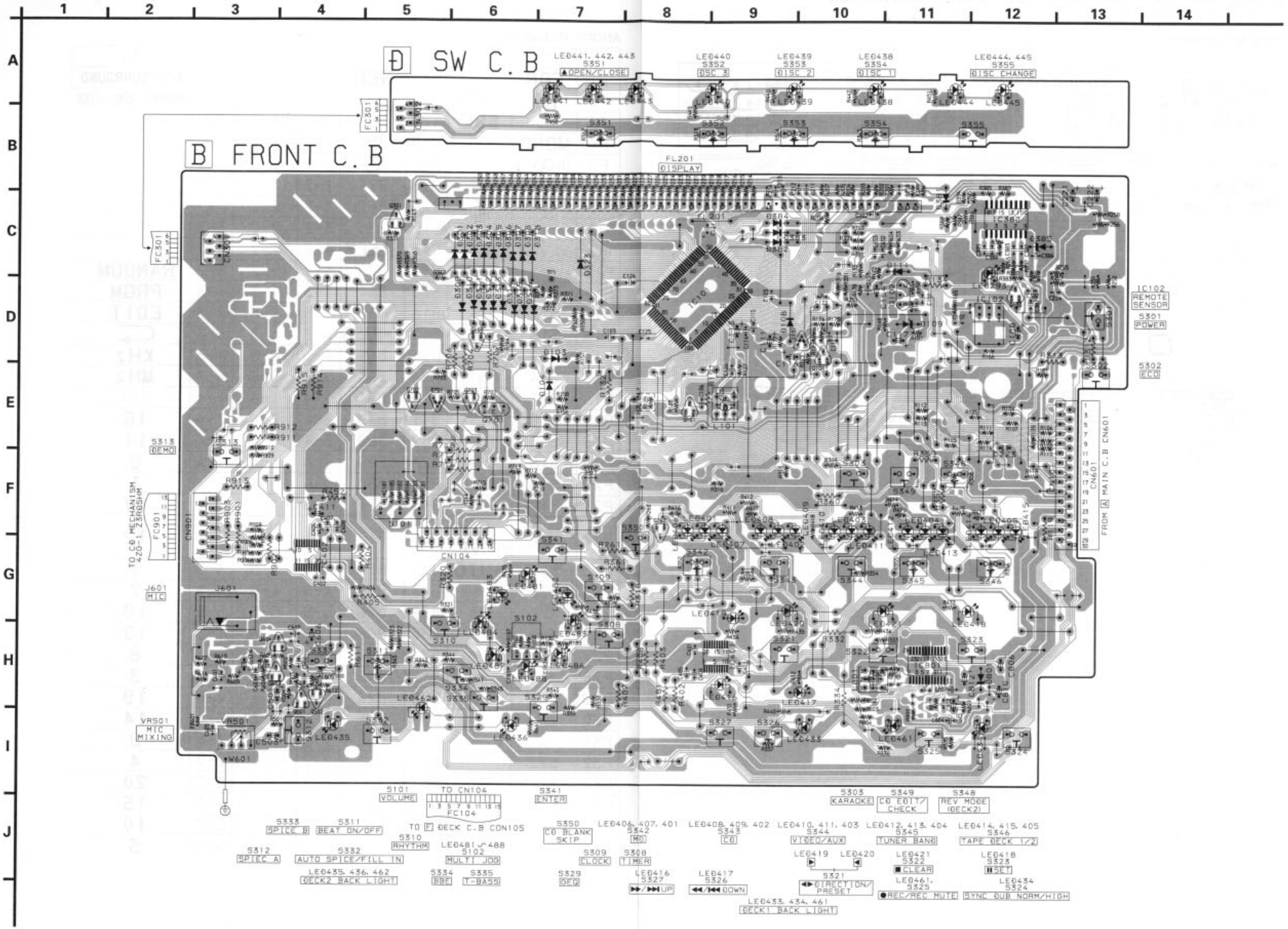
GRID ASSIGNMENT

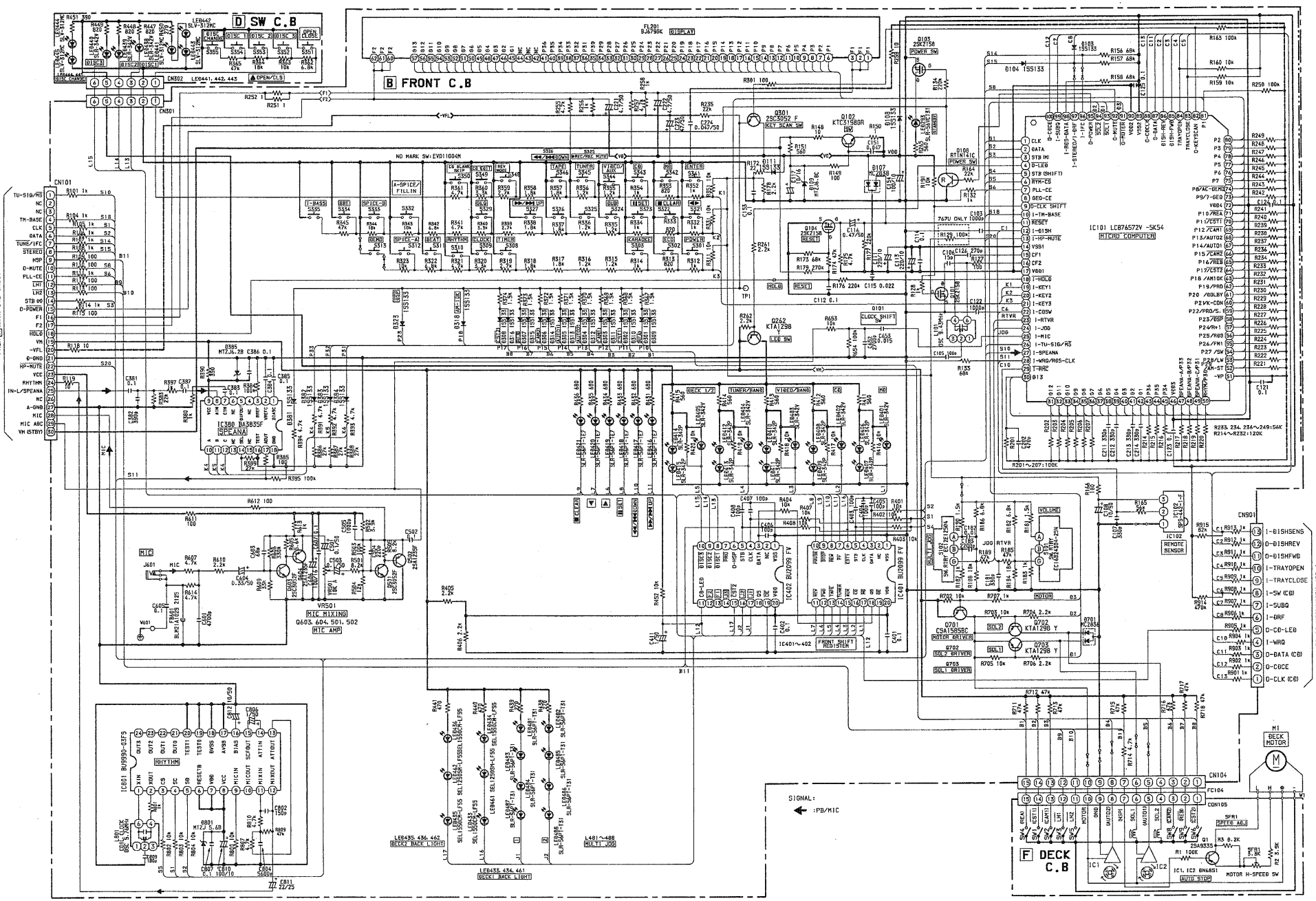


ANODE CONNECTION

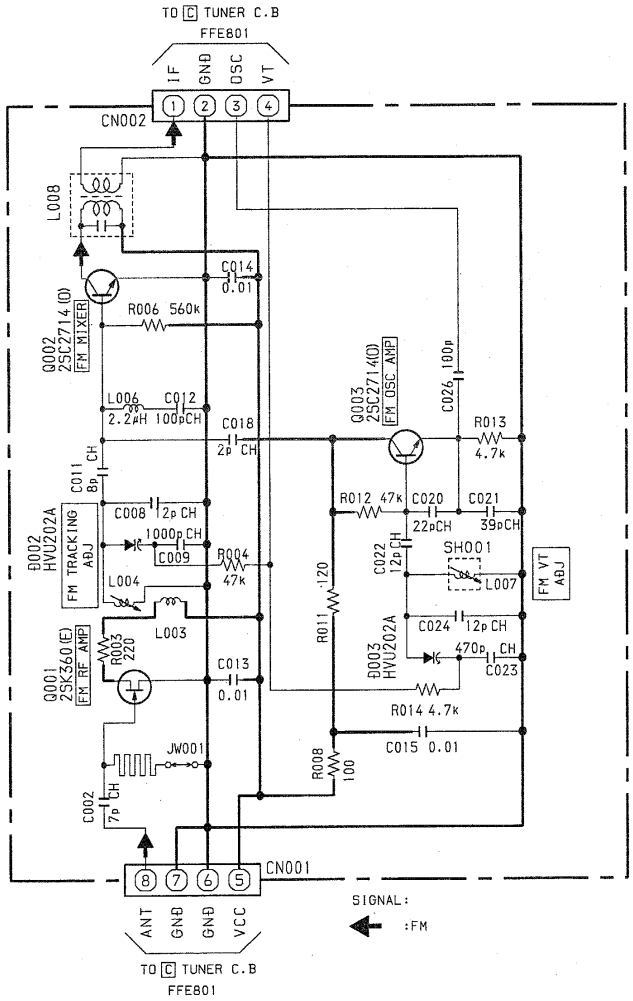
	1G	2G	3G	4G	5G	6G~11G	12G	13G
P1	EON	B9	B45	REC	1-1	1-1	1-1	DSP SURROUND
P2	AG	DD NR	B36	B72	2-1	2-1	2-1	GRAPHIC EQUALIZER
P3	○	BBE	B27	B63	3-1	3-1	3-1	B7
P4	MONO	S25	B18	B54	4-1	4-1	4-1	B6
P5	((○))	B8	B44	◴	5-1	5-1	5-1	B5
P6	RDS	☾	B35	B71	1-2	1-2	1-2	B4
P7	b	⚑	B26	B62	2-2	2-2	2-2	B3
P8	c	☽	B17	B53	3-2	3-2	3-2	B2
P9	a, g, d	B7	B43	SLEEP	4-2	4-2	4-2	B1
P10	e	(REC)	B34	B70	5-2	5-2	5-2	RANDOM
P11	S1	◁	B25	B61	1-3	1-3	1-3	PRGM
P12	S12	▷	B16	B52	2-3	2-3	2-3	EDIT
P13	S13	B6	B42	T-BASS	3-3	3-3	3-3	↪
P14	S20	♭ ♯	B33	B69	4-3	4-3	4-3	KHz
P15	S14	[(♭)]	B24	B60	5-3	5-3	5-3	MHz
P16	S11	[(♯)]	B15	B51	1-4	1-4	1-4	S29
P17	S19	B5	B41	B78	2-4	2-4	2-4	16
P18	S15	B75	B32	B68	3-4	3-4	3-4	11
P19	S18	B74	B23	B59	4-4	4-4	4-4	6
P20	S16	B73	B14	B50	5-4	5-4	5-4	1
P21	S17	B4	B40	B77	1-5	1-5	1-5	17
P22	S3	VF	B31	B67	2-5	2-5	2-5	12
P23	S24	AUTO	B22	B58	3-5	3-5	3-5	7
P24	S23	—	B13	B49	4-5	4-5	4-5	2
P25	S9	B3	B39	B76	5-5	5-5	5-5	18
P26	S8	—	B30	B66	1-6	1-6	1-6	13
P27	S7	—	B21	B57	2-6	2-6	2-6	8
P28	S6	—	B12	B48	3-6	3-6	3-6	3
P29	S5	B2	B38	B26	4-6	4-6	4-6	19
P30	S4	—	B29	B65	5-6	5-6	5-6	14
P31	S2	—	B20	B56	1-7	1-7	1-7	9
P32	S22	—	B11	B47	2-7	2-7	2-7	4
P33	S21	B1	B37	—	3-7	3-7	3-7	20
P34	S10	—	B28	S64	4-7	4-7	4-7	15
P35	—	—	B19	S55	5-7	5-7	5-7	10
P36	—	—	B10	S46	S27	—	S28	5

WIRING – 3 (FRONT)

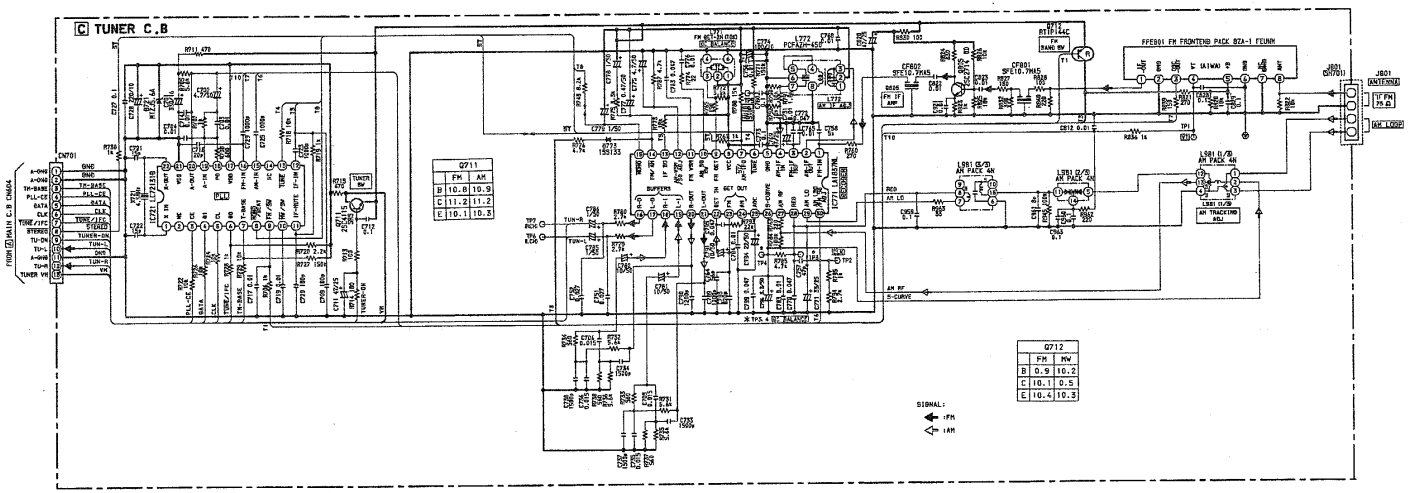


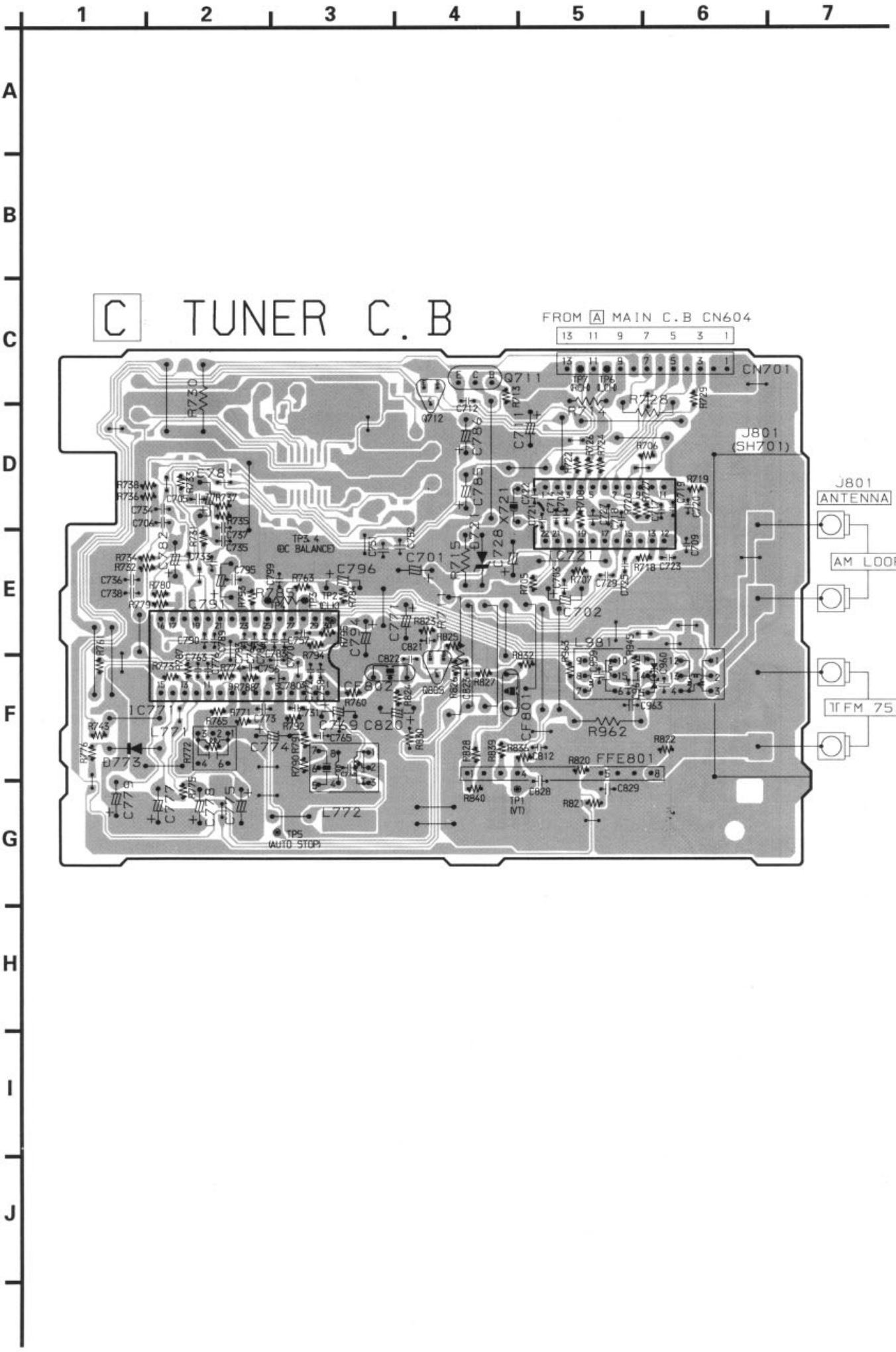

D SW C.B
B FRONT C.B
F DECK C.B
IC101 LC876572V -5K54
MICRO COMPUTER
IC380 BA3835F
SPEANA
IC801 BU9990-03FS
RHYTHM
IC402 BU2099 FV
IC401 BU2099 FV
IC102
REMOTE SENSOR
VOLUME
MIC MIXING
Q603, 604, 501, 502
MIC AMP
MOTOR
SOL1
SOL2
MOTOR DRIVER
SOL1 DRIVER
SOL2 DRIVER
FRONT SHIFT REGISTER
DECK 1/2
TUNER/BAND
VIDEO/BAND
CD
MD
CLOCK SHIFT
KEY SCAN SW
POWER SW
RESET
HOLD
MULTI JOG
DECK1 BACK LIGHT
DECK2 BACK LIGHT
SPEED ADJ
AUTO STOP
MOTOR H-SPEED SW
SIGNAL:
:PB/MIC
FROM A MAIN C.B CN601
TO CD MECHANISM 420-1 2SM63MP(CS01)
M1 DECK MOTOR

SCHEMATIC DIAGRAM – 4 (TUNER FRONTEND)



SCHEMATIC DIAGRAM – 5 (TUNER)

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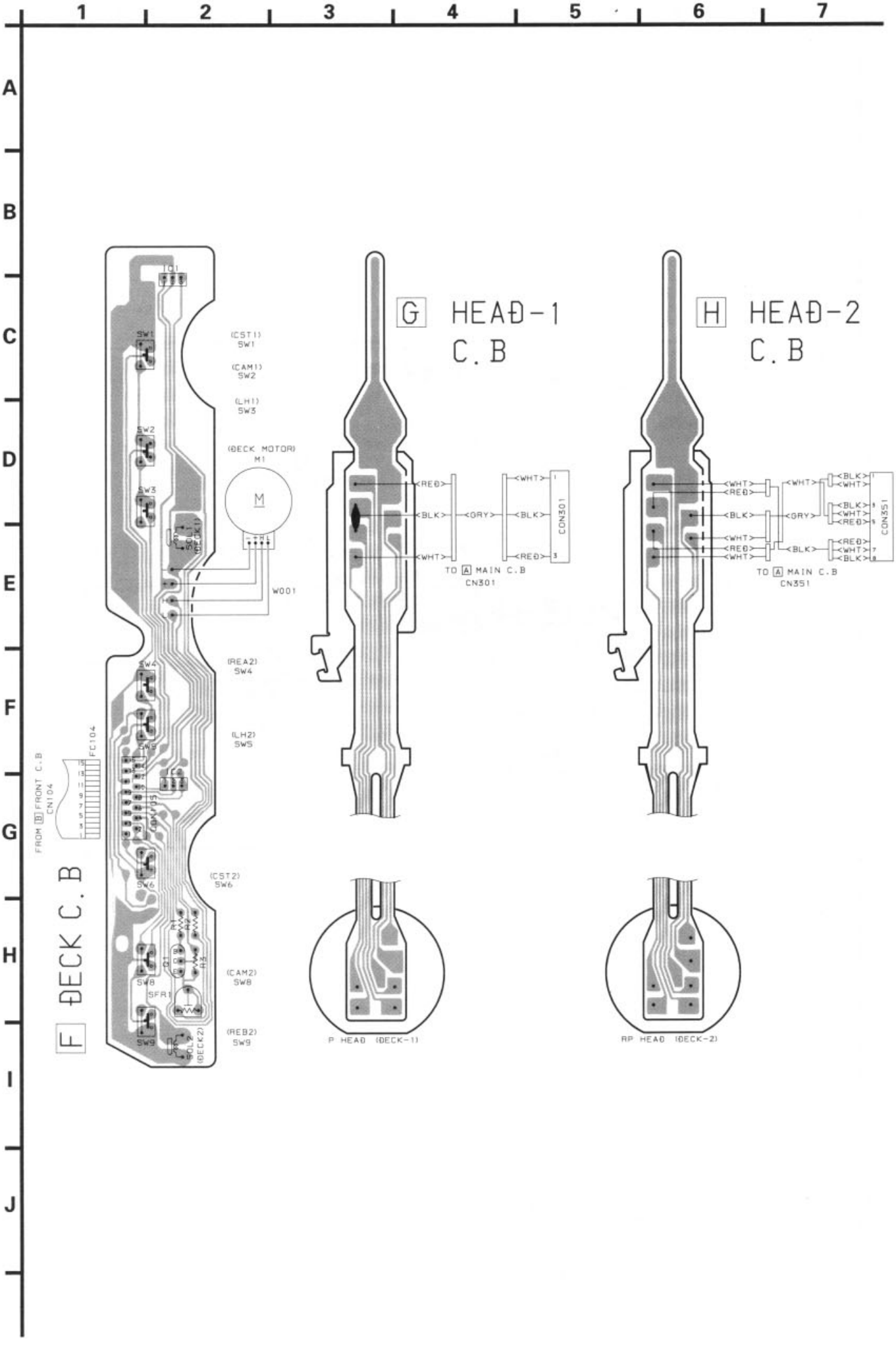
H
I
J
C TUNER C.B
FROM A MAIN C.B CN604
13 11 9 7 5 3 1
CN701
J801
(SH701)
J801
ANTENNA
AM LOOP
FM 75Ω
TP3 4
(DC BALANCE)
TP5
(AUTO STOP)
TP1
(VT)
IC771
D773
L771
L772
FFE801
CF801
X721
L721
L981
R962
C796
C701
C702
C820


1
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A
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D
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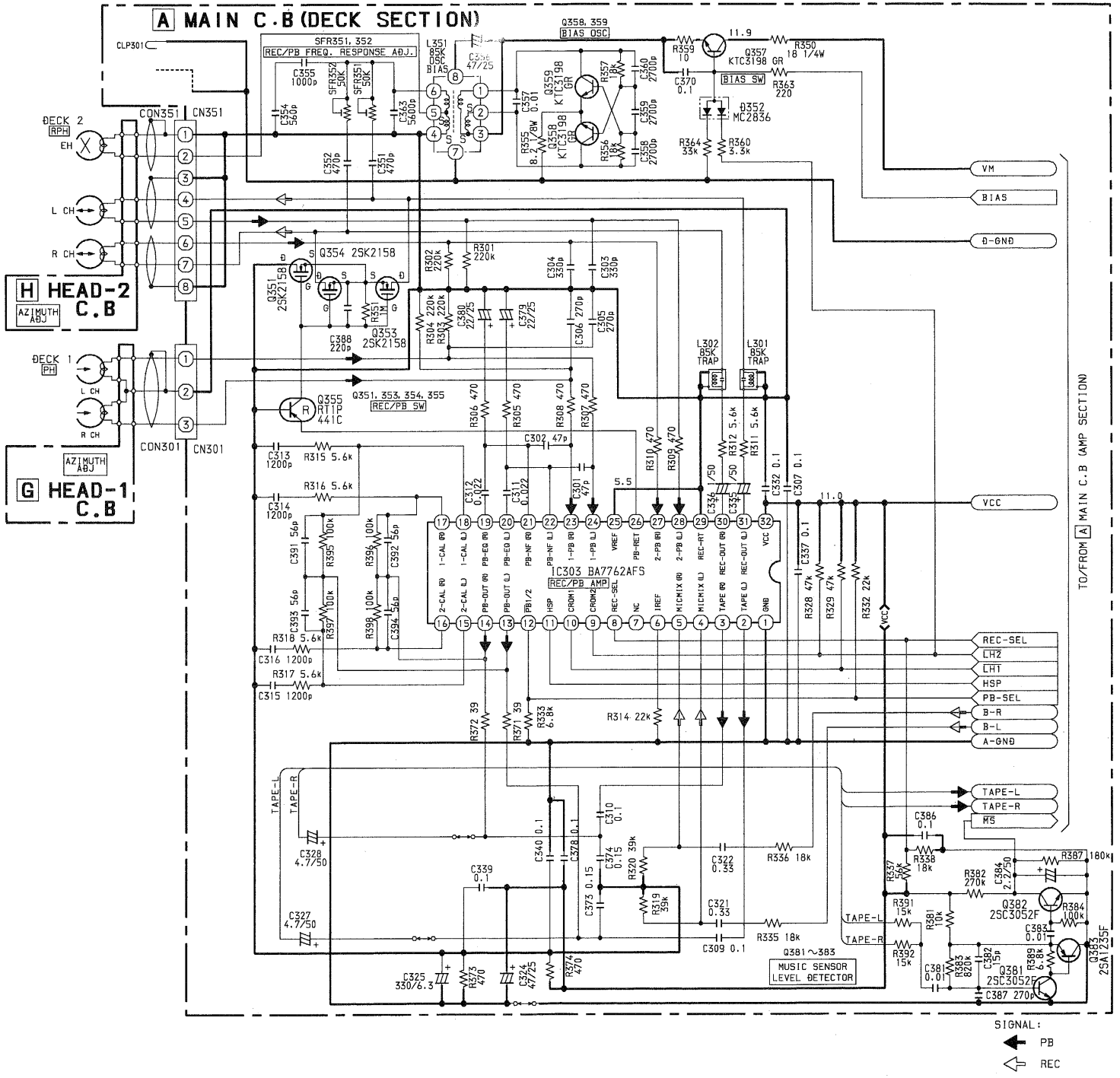
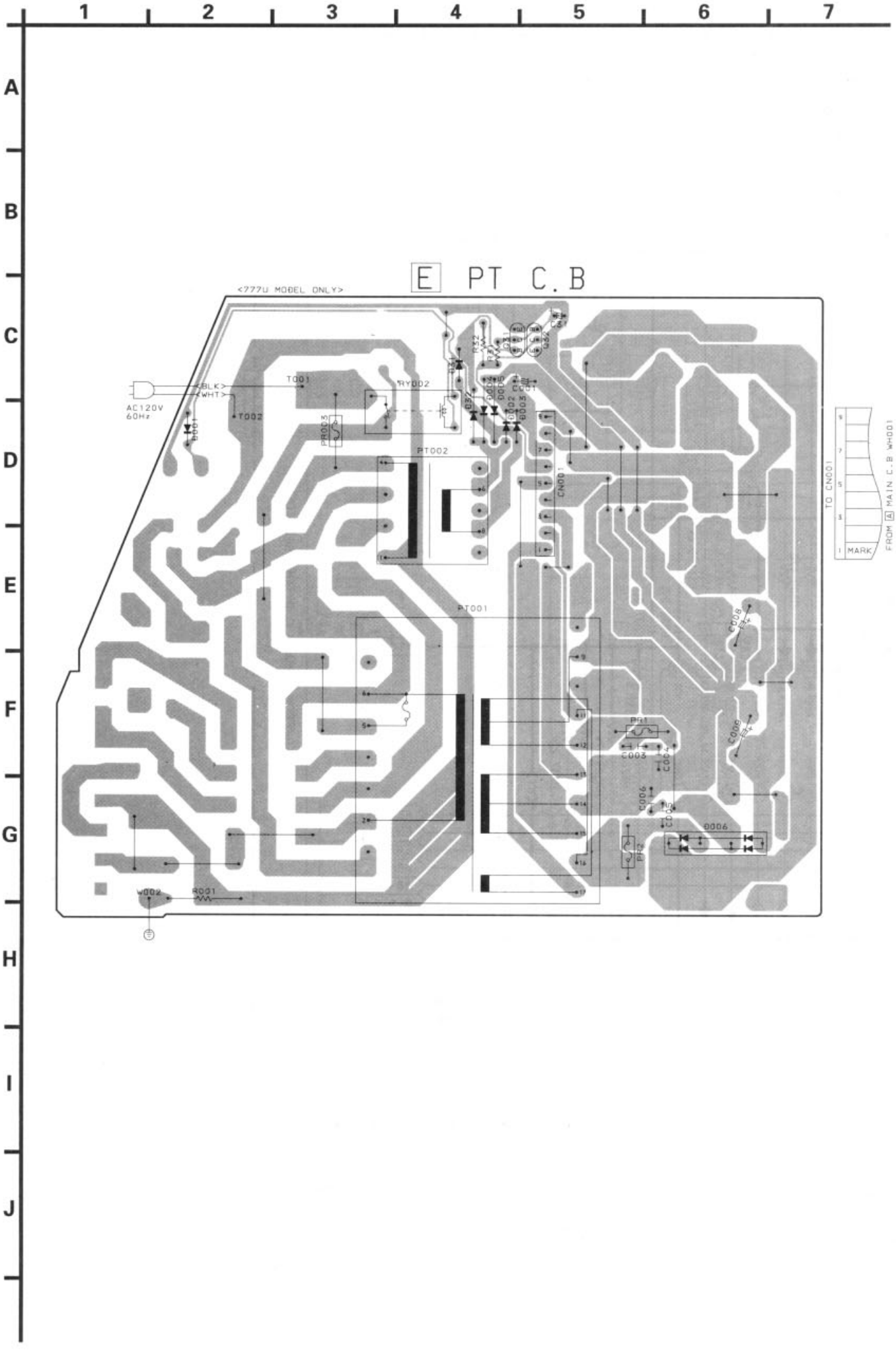
F
G
H
I
J
F DECK C.B
G HEAD-1 C.B
H HEAD-2 C.B
(CST1) SW1
(CAM1) SW2
(LH1) SW3
(DECK MOTOR) M1
M
W001
(REA2) SW4
(LH2) SW5
(CST2) SW6
(CAM2) SW8
(REB2) SW9
SFR1
SOL1 (DECK1)
SOL2 (DECK2)
FROM B FRONT C.B CN104
FC104
TO A MAIN C.B CN301
CON301
TO A MAIN C.B CN351
CON351
P HEAD (DECK-1)
RP HEAD (DECK-2)


A MAIN C.B (DECK SECTION)
H HEAD-2 C.B
G HEAD-1 C.B
AZIMUTH ADJ
DECK 2
RPH
EH
L CH
R CH
DECK 1
PH
CON351
CN351
CON301
CN301
CLP301
SFR351, 352
REC/PB FREQ. RESPONSE ADJ.
Q358, 359
BIAS OSC
BIAS SW
Q352 MC2836
Q357 KTC3198 GR
Q359 KTC3198 GR
Q358 KTC3198 GR
Q354 2SK2158
Q351 2SK2158
Q353 2SK2158
Q355 RT1C 441C
Q351, 353, 354, 355
REC/PB SW
L302 85K TRAP
L301 85K TRAP
IC303 BA7762AFS
REC/PB AMP
MUSIC SENSOR
LEVEL DETECTOR
Q381~383
Q382 2SC3052F
Q381 2SC3052F
Q383 2SA1235F
TO/FROM A MAIN C.B (AMP SECTION)
VM
BIAS
D-GND
VCC
REC-SEL
LH2
LH1
HSP
PB-SEL
B-R
B-L
A-GND
TAPE-L
TAPE-R
MS
SIGNAL:
PB
REC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G
H
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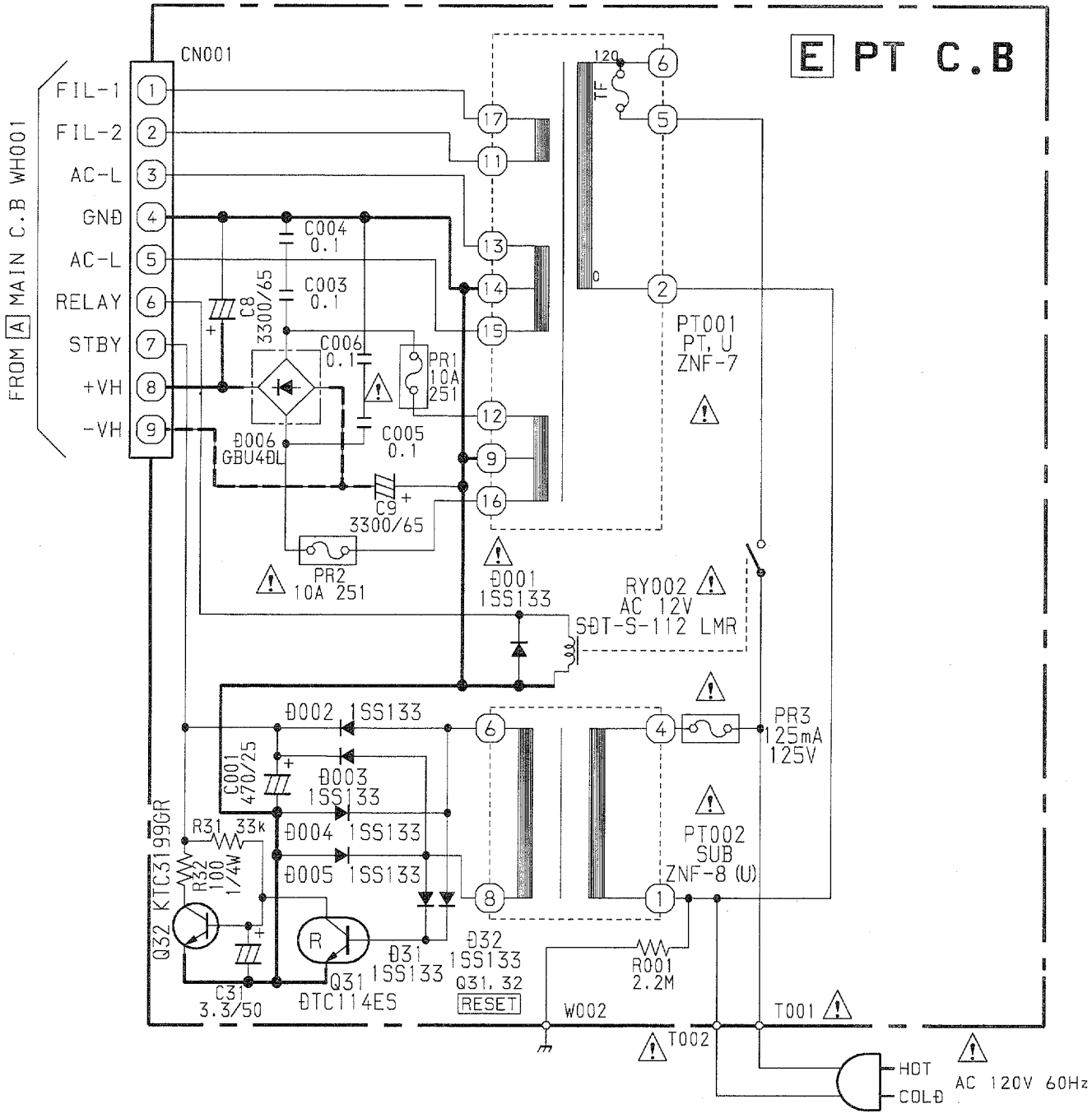
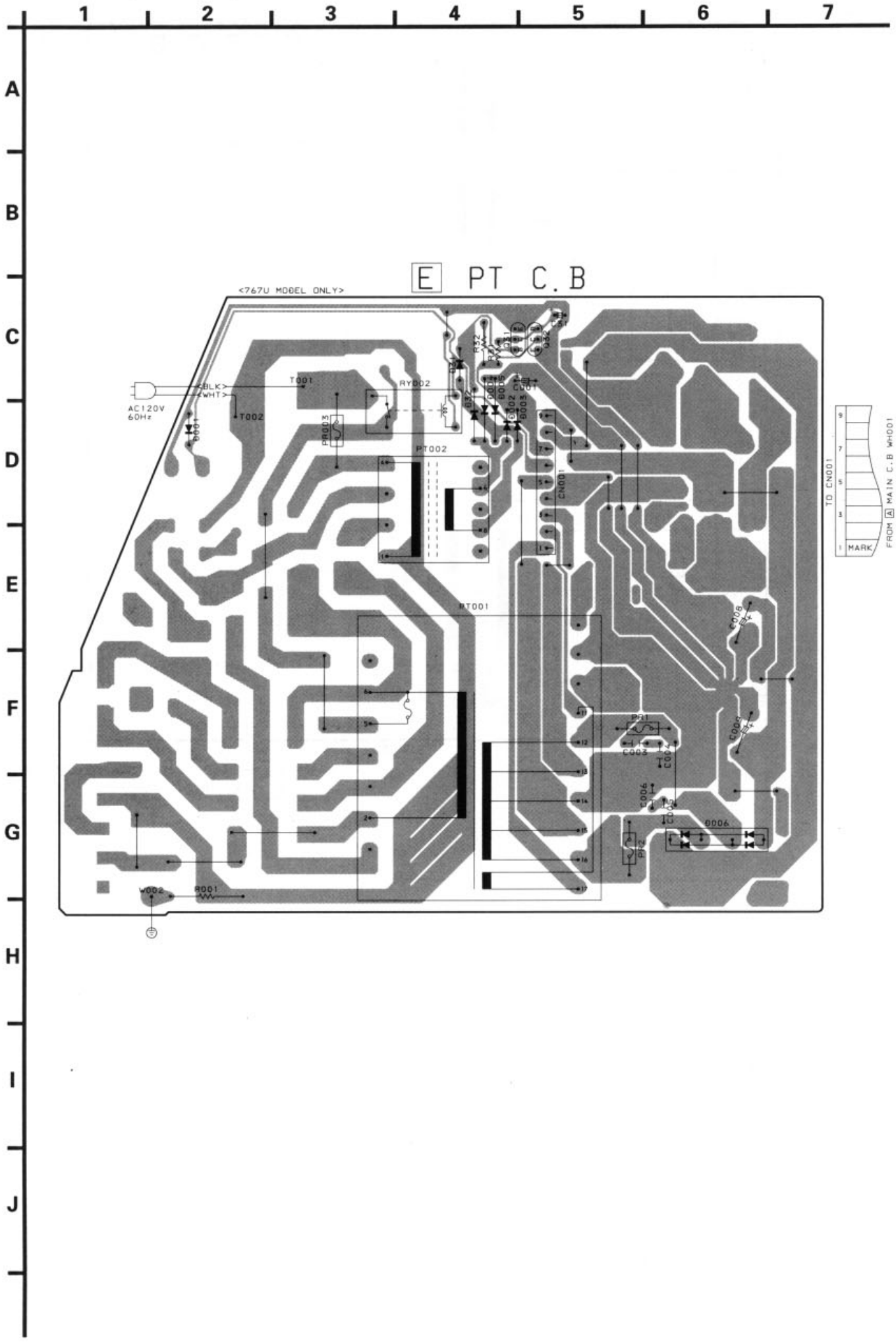
J
E PT C.B
<777U MODEL ONLY>
AC120V
60Hz
BLK
WHT
T001
T002
PR003
RY002
PT002
PT001
CN001
TO CN001
FROM A MAIN C.B WH001
MARK
PR1
PR2
C003
C004
C005
C006
C007
C008
C009
D006
W002
R031

SCHEMATIC DIAGRAM – 7 (PT : 777U)

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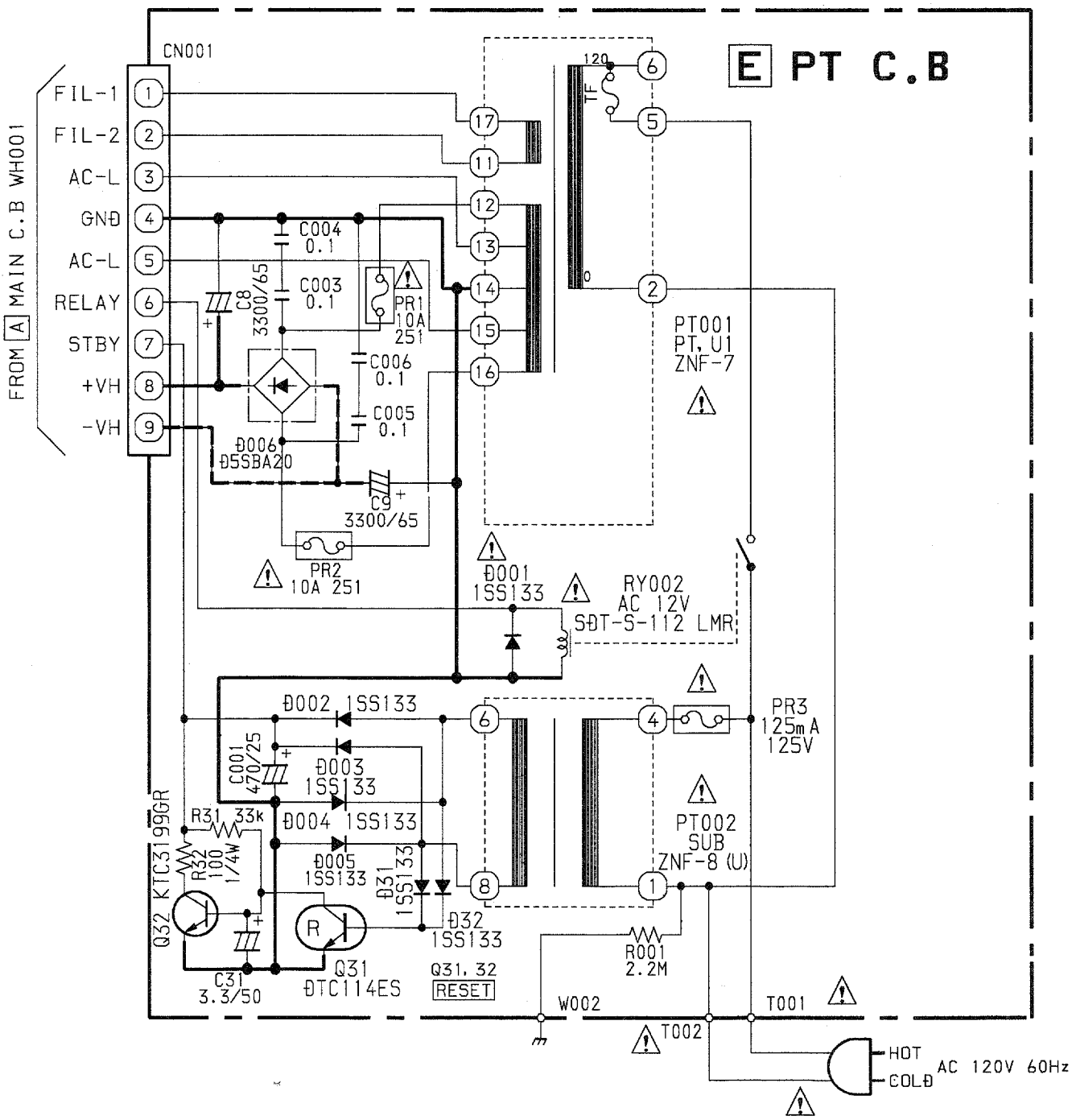
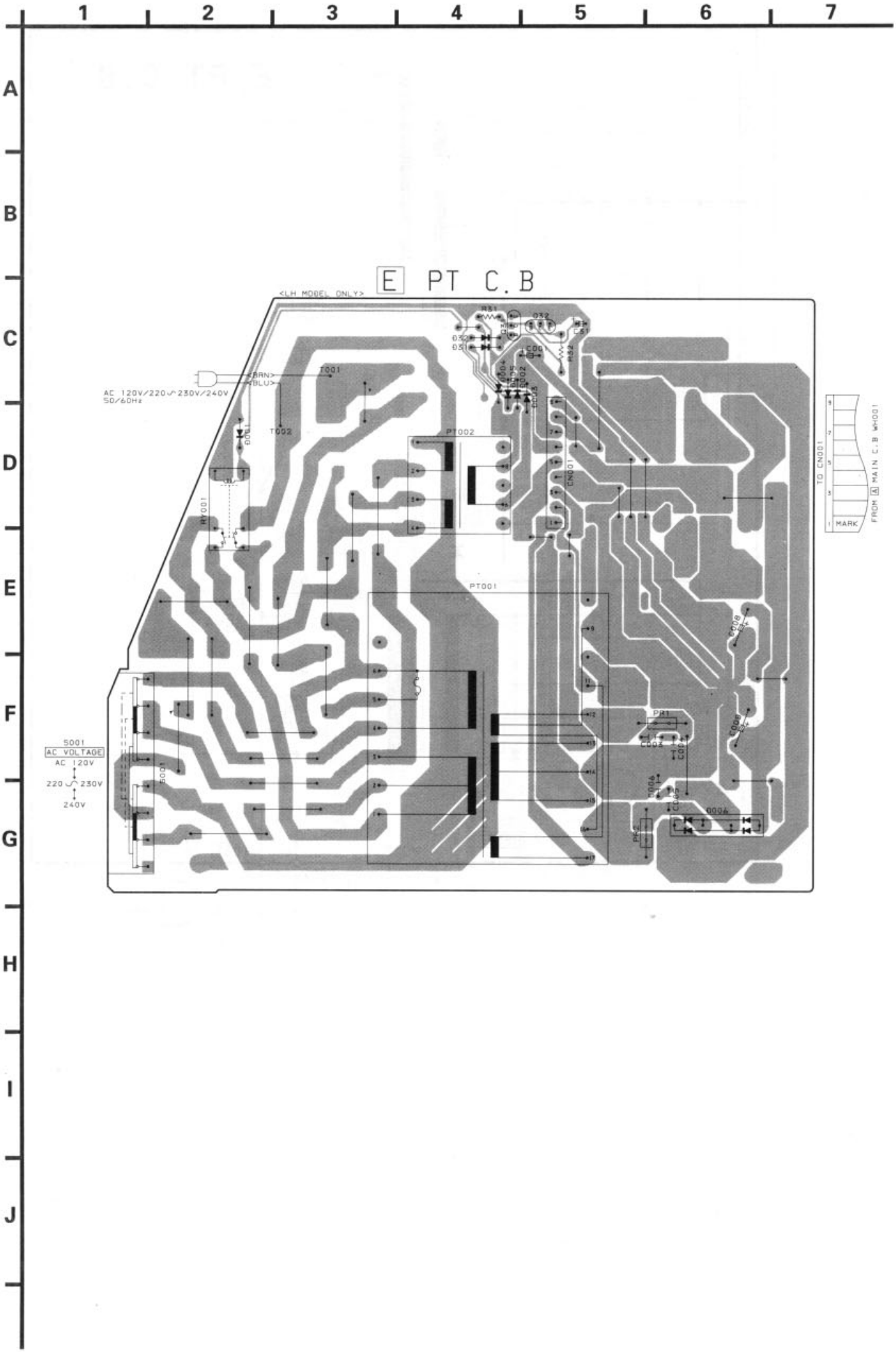
E PT C.B
<767U MODEL ONLY>
AC120V
60Hz
<BLK>
<WHT>
T001
T002
RY002
PR003
PT002
PT001
CN001
TO CN001
MARK
FROM A MAIN C.B WH001
W002
R001
P31
P32
D006

SCHEMATIC DIAGRAM – 8 (PT : 767U)

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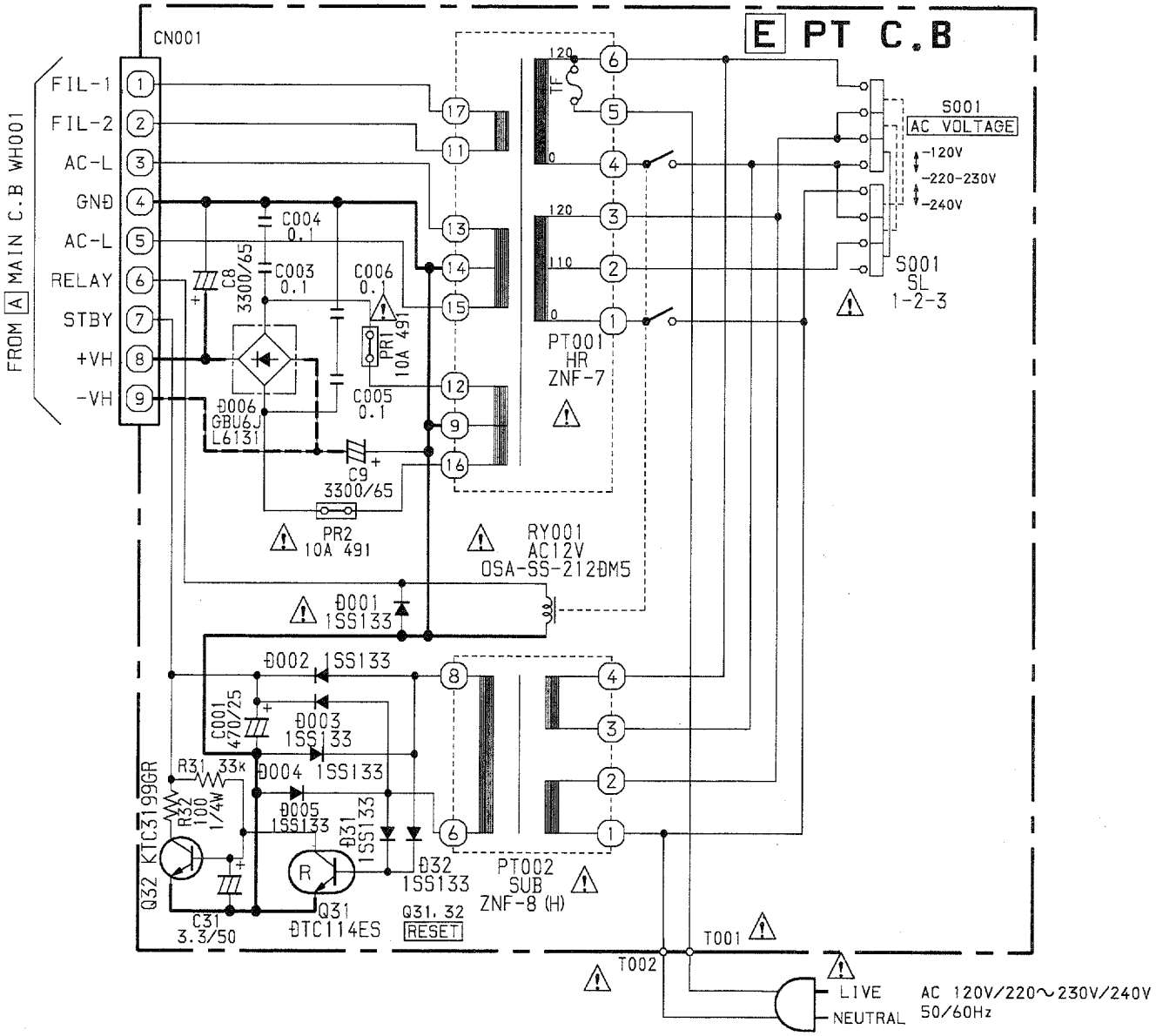
E PT C.B
<LH MODEL ONLY>
AC 120V/220~230V/240V
50/60Hz
<BRN>
<BLU>
T001
T002
PT002
PT001
CN001
TO CN001
FROM A MAIN C.B WH001
MARK
RY001
S001
AC VOLTAGE
AC 120V
220~230V
240V
PR1
D004
D005
D006

SCHEMATIC DIAGRAM – 9 (PT : LH)



IC DESCRIPTION

IC, LC876572V-5K54

Pin No.	Pin Name	I/O	Description
1	CLK	O	CLOCK output for MAIN,FRONT PWB.
2	DATA	O	DATA output for MAIN, FRONT PWB.
3	STB (M)	O	Data latch strobe output for MAIN PWB.
4	O-$\overline{\text{LED}}$	O	LED $\overline{\text{ON}}$/ OFF output.
5	STB (SHIFT)	O	Latch strobe output for FRONT shift register.
6	$\overline{\text{RYM-CS}}$	O	Latch strobe output for RHYTHM IC.
7	PLL-CE	O	PLL IC chip enable output.
8	GEQ-CE	O	GEQ IC chip enable output. (Not connected)
9	O-$\overline{\text{CLK SHIFT}}$	O	TUNER CLOCK SHIFT output.
10	I-TM-BASE	I	REFERENCE CLOCK input for timer watch.
11	$\overline{\text{RESET}}$	I	Reset input.
12	I-DISH	I	CD turntable photo sensor A/D converter input.
13	I-$\overline{\text{HP-MUTE}}$	I	Headphone input for MUTE by PROLOGIC.
14	VSS 1	–	GND.
15	CF 1	–	9.43MHz oscillator circuit.
16	CF 2	–	
17	VDD 1	–	Power supply input.
18	I-$\overline{\text{HOLD}}$	I	Power failure detection input.
19	I-KEY-1	I	KEY input.(A/D)
20	I-KEY-2	I	
21	I-KEY-3	I	
22	I-CD SW	I	CD mechanical switch A/D converter input.
23	I-RTVR	I	Rotary volume A/D level input.
24	I-JOG	I	JOG dial A/D level input.
25	I-MIC	I	Microphone input for AUTO VF.
26	I-TU-SIG / $\overline{\text{MS}}$	I	Tuner signal and deck music sensor signal input.
27	I-SPEANA	I	A/D input for spectrum analyzer display.
28	I-WRQ / RDS-CLK	I	CD WRQ input / Tuner RDS clock input (Not used).
29	I-$\overline{\text{RMC}}$	I	System remote control signal input.
30 ~ 42	G13 ~ G1	O	FL GRID output G13 ~ G1.
43 ~ 45	P36 ~ P34	O	FL SEGMENT output P36 ~ P34.
46	VDD3	–	Power supply input.
47	SPEANA-A / P33	O	Spectrum analyzer band switching ouput A / FL segment P33 output.
48	SPEANA-B / P32	O	Spectrum analyzer band switching ouput B / FL segment P32 output.
49	SPEANA-C / P31	O	Spectrum analyzer band switching ouput C / FL segment P31 output.
50	$\overline{\text{RHYM}}$ / P30	I/O	RHYTHM input to diode / FL segment P30 output.
51	-VP	–	Power supply input for FL display.
52	P29 / AM-ST	O	FL segment P29 output / AM-ST input to diode (Not connected).
53	P28 / LW	O	FL segment P28 output / LW input to diode (Not connected).
54	P27 / SW	O	FL segment P27 output / SW input to diode (Not connected).

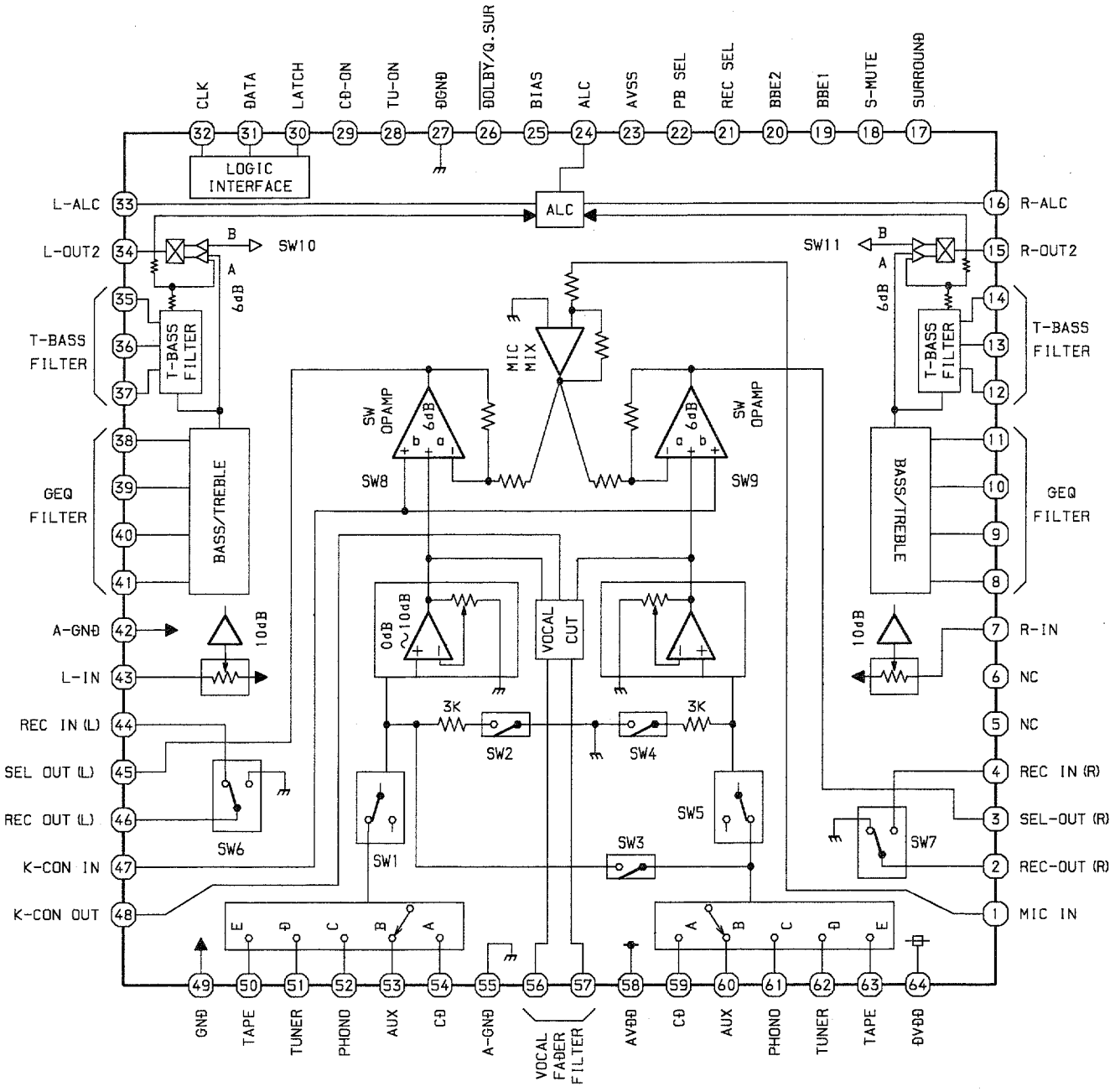
Pin No.	Pin Name	I/O	Description
55	P26 / FM1	O	FL segment P26 output / FM1 (OIRT) input to diode (Not connected).
56	P25 / RDS	O	FL segment P25 output / RDS input to diode (Not connected).
57	P24 / R+1	O	FL segment P24 output / RVS+1 way input to diode (Not connected).
58	P23 / $\overline{\text{DSP}}$	I/O	FL segment P23 output / $\overline{\text{DSP}}$ input to diode.
59	P22 / PRO / 5.1	O	FL segment P22 output / PRO/5.1 input to diode (Not connected).
60	P21 / K-CON	O	FL segment P21 output / K-CON input to diode (Not connected).
61	P20 / DOLBY	O	FL segment P20 output / DOLBY input to diode (Not connected).
62	P19 / PRO	O	FL segment P19 output / PRO input to diode (Not connected).
63	P18 / AM10K	I/O	FL segment P18 output / AM 10KHz input to diode.
64	P17 / $\overline{\text{CTS2}}$	I/O	FL segment P17 output / DECK2 cassette detect switch data input.
65	P16 / $\overline{\text{REB}}$	I/O	FL segment P16 output / DECK2 sideB record OK switch data input.
66	P15 / $\overline{\text{CAM2}}$	I/O	FL segment P15 output / DECK2 CAM switch data input.
67	P14 / AUTO1	I/O	FL segment P14 output / DECK1 AUTO stop signal input.
68	P13 / AUTO2	I/O	FL segment P13 output / DECK2 AUTO stop signal input.
69	P12 / $\overline{\text{CAM1}}$	I/O	FL segment P12 output / DECK1 CAM switch data input.
70	P11 / $\overline{\text{CTS1}}$	I/O	FL segment P11 output / DECK1 cassette detect switch data input.
71	P10 / $\overline{\text{REA}}$	I/O	FL segment P10 output / DECK2 sideA record OK switch data input.
72	VDD4	–	Power supply input.
73	P9 / 7-GEQ	I/O	FL segment P9 output / 7-GEQ input to diode.
74	P8 / $\overline{\text{AC-DEMO}}$	I/O	FL segment P8 output / AC-DEMO input to diode.
75 ~ 81	P7 ~ P1	O	FL segment P7 ~ P1 output.
82	O-KEYSCAN	O	Switch SCAN timing output.
83	TRAYCLOSE	O	CD tray close data output.
84	TRAYOPEN	O	CD tray open data output.
85	DISH-FWD	O	CD turntable forward rotation output.
86	DISH-REV	O	CD turntable reverse rotation output.
87	O-DATA	O	CD data output.
88	O-CDCLK	O	CD clock output.
89	VSS2	–	GND.
90	VDD2	–	Power supply input.
91	O-$\overline{\text{MOTOR}}$	O	Deck motor $\overline{\text{ON}}$ / OFF output.
92	O-MUTE	O	System mute ON / $\overline{\text{OFF}}$ output.
93	$\overline{\text{SOL1}}$	O	Deck1 solenoid output.
94	$\overline{\text{SOL2}}$	O	Deck2 solenoid output.
95	O-POWER	O	System power supply ON /$\overline{\text{OFF}}$ output.
96	I-IFC	I	Tune IF count serial data input.
97	I-STEREO / I-DRF	I	Tuner stereo detected input / DRF input.
98	I-RDS-DATA	I	RDS data input (Not used).
99	I-SUBQ	I	CD SUBQ data input.
100	O-CDCE	O	CD chip enable output.

IC, LC72131D

<table>
<tr><th>Pin No.</th><th>Pin Name</th><th>I/O</th><th>Description</th></tr>
<tr><td>1</td><td>XIN</td><td rowspan="2">I/O</td><td rowspan="2">A crystal oscillator (7.2MHz) is connected between these pins.</td></tr>
<tr><td>22</td><td>XOUT</td></tr>
<tr><td>2</td><td>NC</td><td>–</td><td>Not used.</td></tr>
<tr><td>3</td><td>CE</td><td>I</td><td>To enable the IC. Active "H".</td></tr>
<tr><td>4</td><td>DI</td><td>I</td><td>Digital data input from CPU when relevant key is operated.
Active "H".</td></tr>
<tr><td>5</td><td>CL</td><td>I</td><td>To clock in the data DI.</td></tr>
<tr><td>6</td><td>DO</td><td>O</td><td>Digital data output to CPU.</td></tr>
<tr><td>7</td><td>T-BASE</td><td>O</td><td>Outputs a reference clock signal (8Hz) for the clock.</td></tr>
<tr><td>8</td><td>$\overline{\text{MONO}}$ / BEAT</td><td>O</td><td>Outputs "H" when BEAT is switched.</td></tr>
<tr><td>9</td><td>$\overline{\text{FM}}$ / $\overline{\text{SW}}$</td><td>O</td><td>Outputs "L" or "H" as follows:
<table>
<tr><th colspan="2">2 BAND</th><th colspan="3">3 BAND</th><th colspan="3">3 BAND</th></tr>
<tr><th>AM</th><th>FM</th><th>LW</th><th>MW</th><th>FM</th><th>MW</th><th>SW</th><th>FM</th></tr>
<tr><td>H</td><td>L</td><td>H</td><td>H</td><td>L</td><td>H</td><td>L</td><td>L</td></tr>
</table></td></tr>
<tr><td>10</td><td>$\overline{\text{MW}}$/SW</td><td>O</td><td>Outputs "L" or "H" as follows:
<table>
<tr><th colspan="2">2 BAND</th><th colspan="3">3 BAND</th><th colspan="3">3 BAND</th></tr>
<tr><th>AM</th><th>FM</th><th>LW</th><th>MW</th><th>FM</th><th>MW</th><th>SW</th><th>FM</th></tr>
<tr><td>L</td><td>L</td><td>H</td><td>L</td><td>L</td><td>L</td><td>H</td><td>L</td></tr>
</table></td></tr>
<tr><td>11</td><td>IF-MUTE</td><td>O</td><td>To control internal counter.</td></tr>
<tr><td>12</td><td>IFIN</td><td>I</td><td>General purpose counter input.</td></tr>
<tr><td>13</td><td>$\overline{\text{TUNE}}$</td><td>I</td><td>Receives "L" when station is tuned.</td></tr>
<tr><td>14</td><td>NC</td><td>–</td><td>Not used.</td></tr>
<tr><td>15</td><td>AM IN</td><td>I</td><td>Receives the AM local oscillator frequency signal.</td></tr>
<tr><td>16</td><td>FM IN</td><td>I</td><td>Receives the FM local oscillator frequency signal.</td></tr>
<tr><td>17</td><td>VDD</td><td>–</td><td>Supply power to IC (+5V).</td></tr>
<tr><td>18</td><td>PD</td><td>O</td><td>PLL charge pump output.</td></tr>
<tr><td>19</td><td>AIN</td><td>I</td><td rowspan="2">The MOS transistor for PLL active low pass filter.</td></tr>
<tr><td>20</td><td>AOUT</td><td>O</td></tr>
<tr><td>21</td><td>VSS</td><td>–</td><td>Ground.</td></tr>
</table>

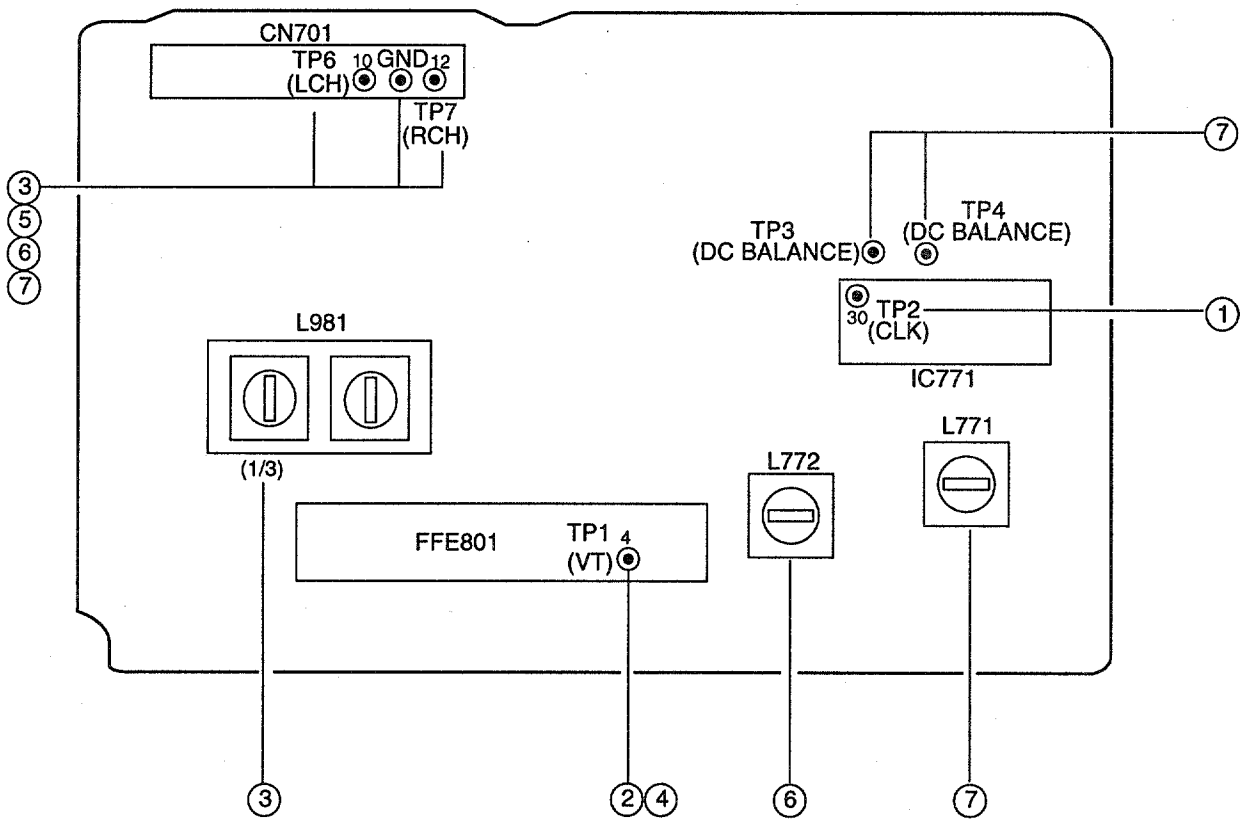
IC BLOCK DIAGRAM – 3

IC, M62445FP-600D



ADJUSTMENT <TUNER / DECK / FRONT>

[C] 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 is max.

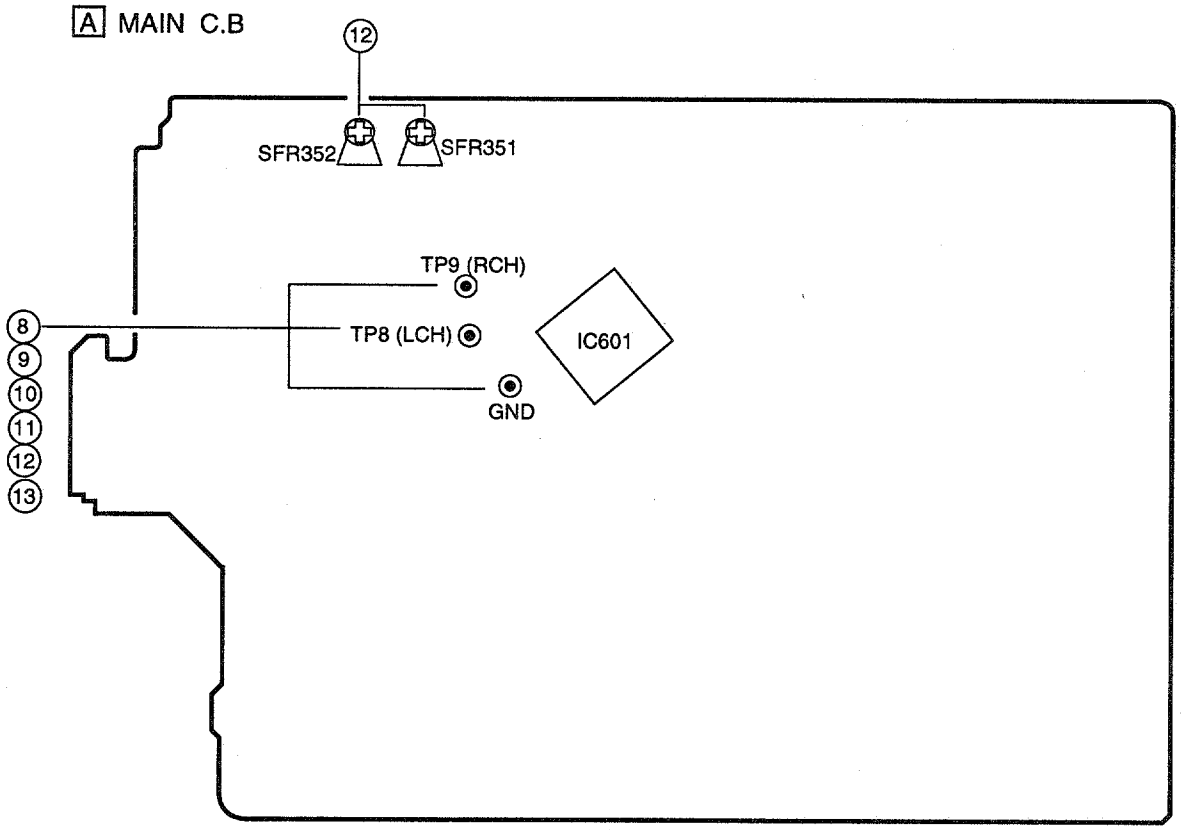
4. FM VT Check
   Settings : • Test point : TP1
   Method : Set to FM 108.0MHz and check that the test point is less than 8.0V.
   Set to FM 87.5MHz and check that the test point is more than 0.5V.

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.

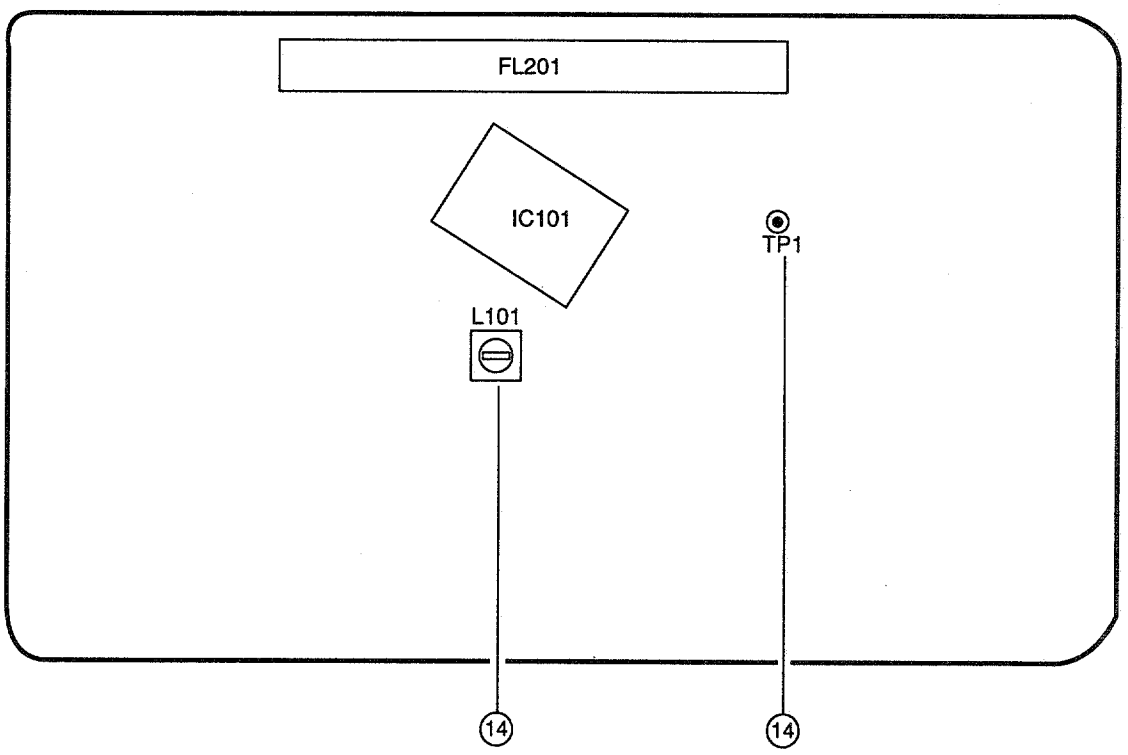
6. AM IF Adjustment
   Settings : • Test point : TP6(Lch), TP7(Rch)
   • Adjustment location :
   L772 ..... 450kHz

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%

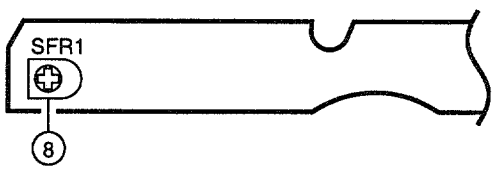
A MAIN C.B



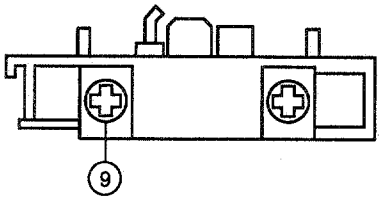
B FRONT C.B



F DECK C.B



DECK–1 P,DECK-2 R/P/E HEAD



< DECK SECTION >

8. 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 and ±45Hz (REV) with respect to forward speed.

9. Head Azimuth Adjustment (DECK 1, DECK 2)
   Settings : • Test tape : TTA–300
   • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location : Head azimuth adjustment screw
   Method : Play back (FWD) the 10kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on REV PLAY mode.

10. PB Frequency Response Check (DECK 1, DECK 2)
    Settings : • Test tape : TTA–300
    • Test point :TP8(Lch), TP9(Rch)
    Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is within 3dB.

11. 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 400mV ± 3dB.

12. REC/PB Frequency Response Adjustment
    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 0dB(28mV). 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.

13. REC/PB Sensitivity Check
    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 0dB (280mV). Record and play back the 1kHz signals and check that the output is 280mV ± 3.0dB.

< FRONT SECTION >

14. μ-CON OSC Adjustment
    Settings : • Test point : TP1
    • Adjustment location : L101
    Method : Insert AC plug with pressing TUNER function key. Adjust L101 so that the frequency across the test point is 209.5Hz ± 0.5Hz.

PRACTICAL SERVICE FIGURE

<TUNER SECTION>

<FM SECTION>

IHF Sensitivity :	Less than 10 / 9 / 9dBμV
(THD 3%)	[at 87.5 / 98.0 / 108.0MHz]
S/N 50dB Quieting sensitivity :	Less than 35dBμV [at 98.0MHz]
Signal to noise ratio :	Mono : More than 68dB Stereo : More than 66dB [at 98.0MHz]
Distortion :	Mono : Less than 1.2% Stereo : Less than 2.0% [at 98.0MHz]
Auto stop level :	25dBμV ± 10dB [at 98.0MHz]
Stereo separation :	More than 22dB [at 98.0MHz]
Intermediate frequency :	10.7MHz

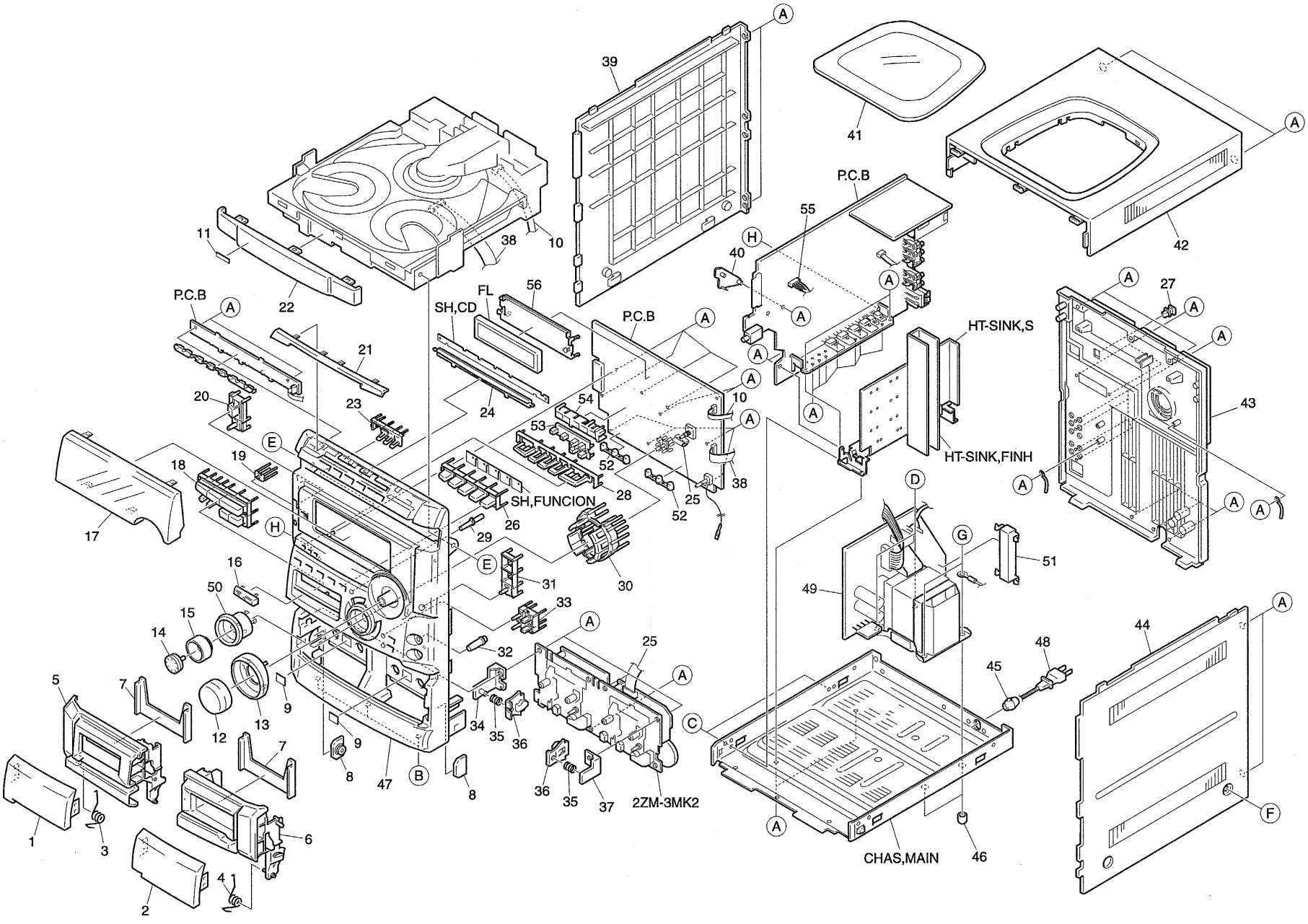
<AM SECTION>

Sensitivity :	Less than 62dBμV [at 600kHz] Less than 58dBμV [at 1000 / 1400kHz]
Signal to noise ratio :	More than 36dB [at 1000kHz]
Distortion :	Less than 1.5% [at 1000kHz]
Auto stop level :	52dBμV +10/-15dB [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 (FWD, REV)
F.F & REW torque :	75 ~ 180g-cm
Back tension :	2 ~ 7g-cm (FWD, REV)
PB output level :	200mV ± 3dB
REC/PB output level :	–1.0dB ± 3.0dB (0VU, NORM, CrO2)
Distortion (REC/PB) :	Less than 2.0% (0VU, NORM, CrO2)
Noise level (PB) :	Less than 1.5mV (NORM, FILTER DIN AUDIO)
Noise level (REC/PB) :	Less than 1.0mV (NORM, FILTER DIN AUDIO)
Erasing ratio :	More than 60dB (at 125Hz, +10VU, CrO2)
Test tape :	TTA–602 (NORMAL) TTA–615 (CrO2)

MECHANICAL EXPLODED VIEW 1 / 1



MECHANICAL PARTS LIST 1 / 1

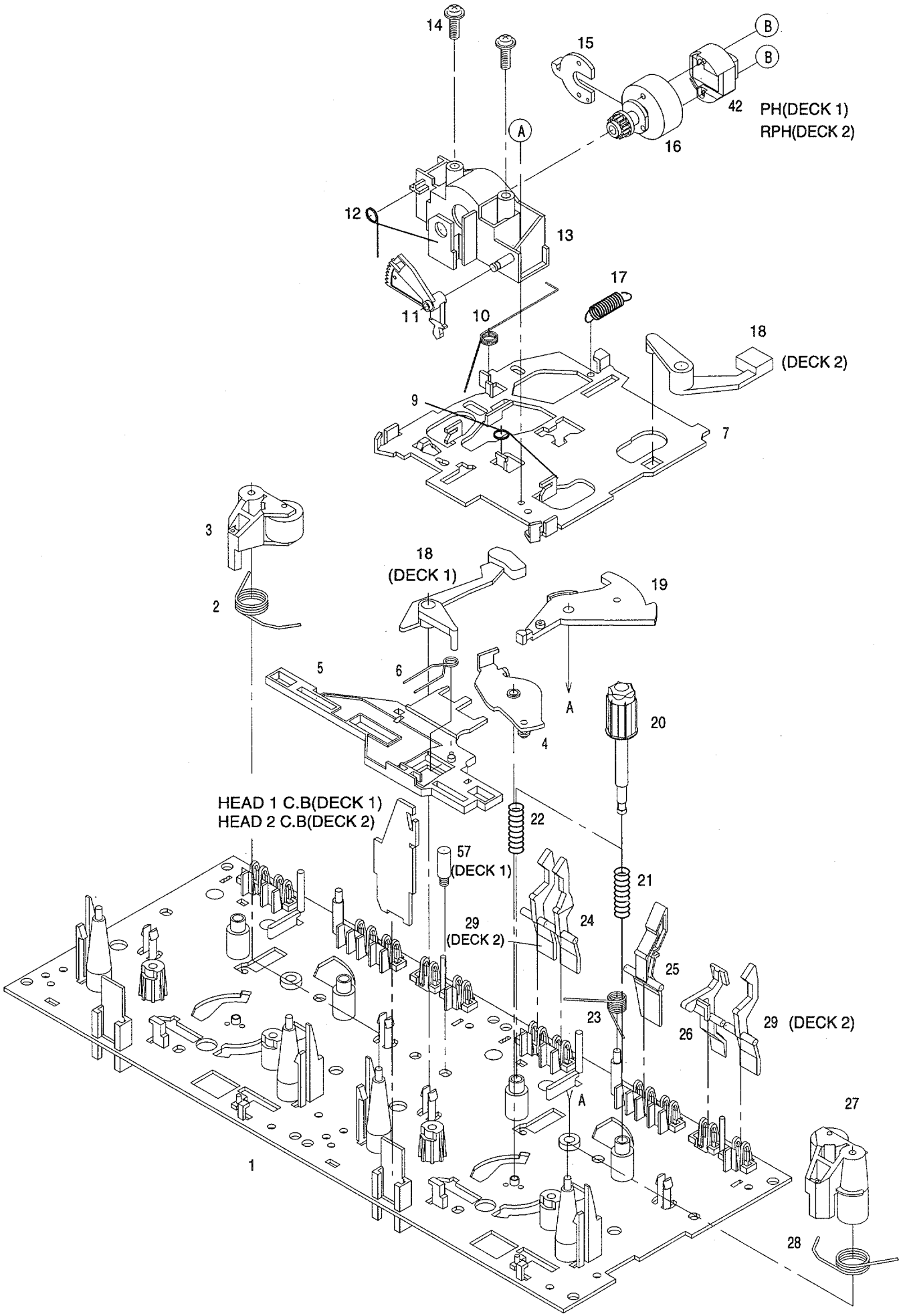
If can't understand for Description please kindly refer to " REFERENCE NAME LIST ".

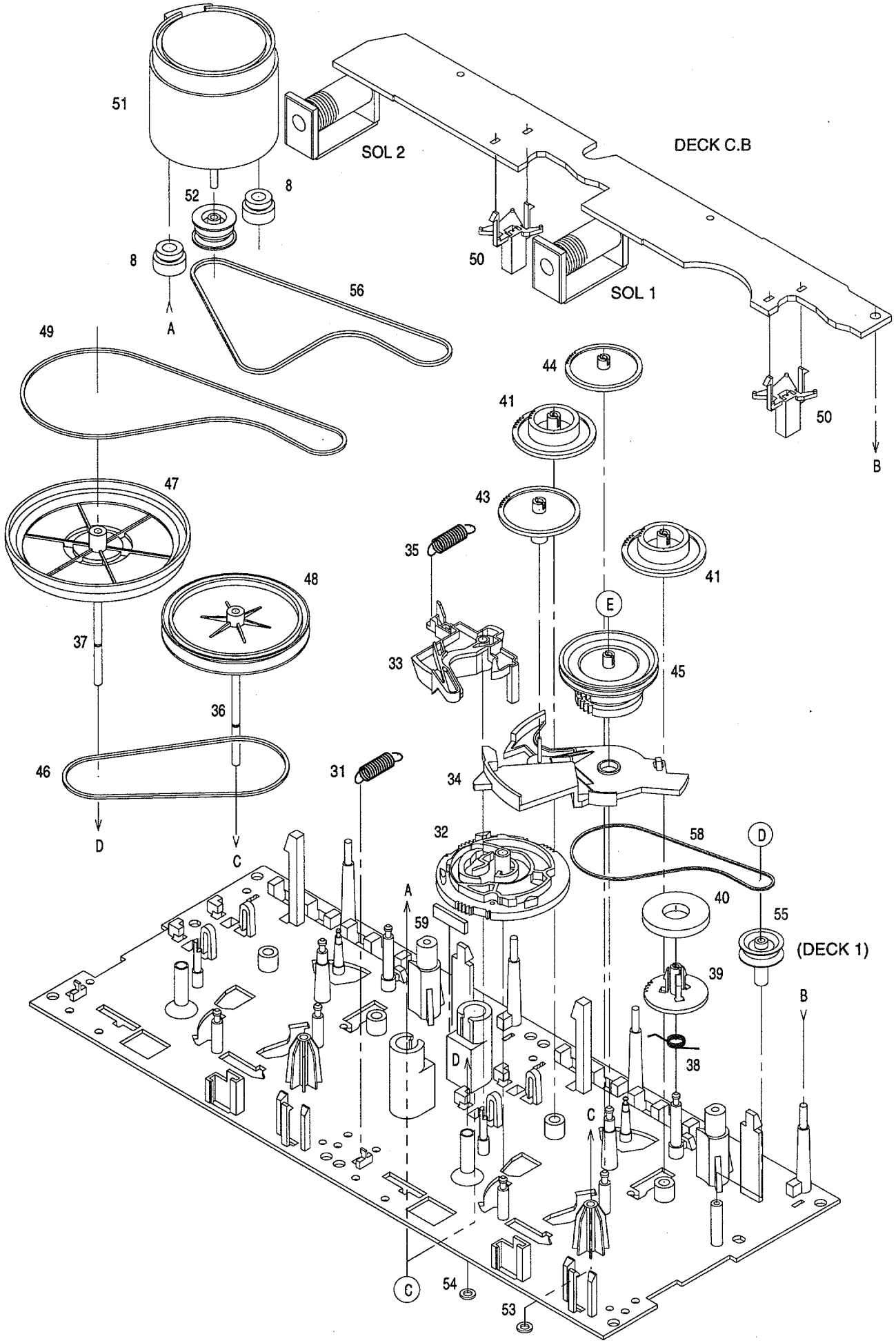
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-NF7-009-010		WINDOW,CASS 1
2	8Z-NF7-010-010		WINDOW,CASS 2
3	82-NF5-218-010		SPR-T,EJECT 1 (SIN)
4	82-NF5-219-010		SPR-T,EJECT 2 (SIN)
5	8Z-NF7-003-010		BOX,CASS 1
6	8Z-NF7-004-010		BOX,CASS 2
7	86-NF6-061-010		REFLECTOR,CASS
8	87-NF8-220-010		DMPR,150
9	81-532-080-010		LABEL, CASS. COMPT
10	85-NF5-617-010		CABLE,FFC 6P-1.25
11	82-NE6-067-010		BADGE,AIWA 30N
12	8Z-NF7-011-010		KNOB,RTRY VOL
13	8Z-NF7-014-010		RING,VOL
14	8Z-NF7-012-010		KNOB,RTRY JOG
15	8Z-NF7-016-010		REFLECTOR,JOG
16	8Z-NF7-026-010		PANEL,PLAY
17	8Z-NF7-051-010		WINDOW,DISPLAY H<777LH>
17	8Z-NF7-008-010		WINDOW,DISPLAY U<777U>
17	8Z-NF7-054-010		WINDOW,DISPLAY U2<767U>
18	8Z-NF7-023-010		KEY,ASSY PLAY
19	8Z-NF7-036-010		REFLECTOR,ECO
20	8Z-NF7-018-010		KEY,POWER
21	8Z-NF7-006-010		PANEL,CD
22	8Z-NF7-005-010		PANEL,TRAY
23	8Z-NF7-021-010		KEY,KARAOKE U
24	8Z-NF7-007-010		REFLECTOR,CD
25	88-915-121-110		FF-CABLE, 15P 1.25
26	8Z-NF7-022-010		KEY,FUNCTION
27	84-ZG1-245-210		CAP,OPTICAL
28	8Z-NF7-019-010		KEY,CD
29	8Z-NF7-027-010		KEY,NSP
30	8Z-NF7-028-010		KEY,JOG U
31	8Z-NF7-020-010		KEY,DEMO U
32	8Z-NF7-013-010		KNOB,RTRY MIC
33	8Z-NF7-029-010		KEY,PAD
34	87-NF4-216-010		HLDR,LOCK 1
35	86-NF9-224-010		SPR-C,LOCK
36	82-NF5-229-010		PLATE,LOCK
37	87-NF4-217-010		HLDR,LOCK 2
38	85-NF5-618-010		CABLE,FFC 13P-1.25
39	8Z-NB8-011-110		PANEL,LEFT V-2
40	8Z-NB8-215-010		HLDR,PWB M
41	86-NF6-007-010		WINDOW,TOP<777LH>
41	86-NF6-101-110		WINDOW,TOP UL<777U,767U>
42	8Z-NB8-013-010		PANEL,TOP V-2
43	8Z-NF7-062-010		CABI,REAR LHSTM<777LH>
43	8Z-NF7-066-010		CABI,REAR U2STM<767U>
43	8Z-NF7-002-010		CABI,REAR USTNM<777U>
44	8Z-NF9-043-010		PANEL,RIGHT S V-2
45	87-085-185-010		BUSHING, AC CORD (E)<777LH>
45	87-085-189-010		BUSHING, CORD (U)<777U,767U>
46	8Z-NB8-240-010		COVER, PL
47	8Z-NF7-042-010		CABI,FR LH<777LH>
47	8Z-NF7-001-010		CABI,FR U<777U>
47	8Z-NF7-045-010		CABI,FR U2<767U>
⚠ 48	87-A80-110-010		AC CORD ASSY,U SPT-2W<777U,767U>
⚠ 48	87-050-079-010		AC-CORD ASSY,E<777LH>
49	8Z-NF7-203-010		GUIDE,CD
50	8Z-NF7-015-010		RING,JOG
⚠ 51	87-A90-165-010		SW,SL 1-2-3 SWS2301<777LH>
52	87-NF6-205-010		GUIDE,LED
53	8Z-NF7-202-010		GUIDE,PLAY
54	8Z-NF7-201-010		GUIDE,FUNCTION
55	87-NF6-616-010		CONN ASSY,8P RPB
56	87-NF5-203-010		GUIDE,FL
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-067-688-010		BVTT+3-6
C	87-721-096-410		QT2+3-10 GLD
D	87-078-191-010		S-SCREW,IT+4-10
E	87-721-097-410		QT2+3-12 GLD
F	87-067-641-010		UTT2+3-8(W/O SLOT)BL
H	87-723-096-410		QT2+3-10W/O SLOT BL

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		

TAPE MECHANISM EXPLODED VIEW 1 / 1




51
SOL 2
DECK C.B
52
8
8
50
SOL 1
56
A
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50
B
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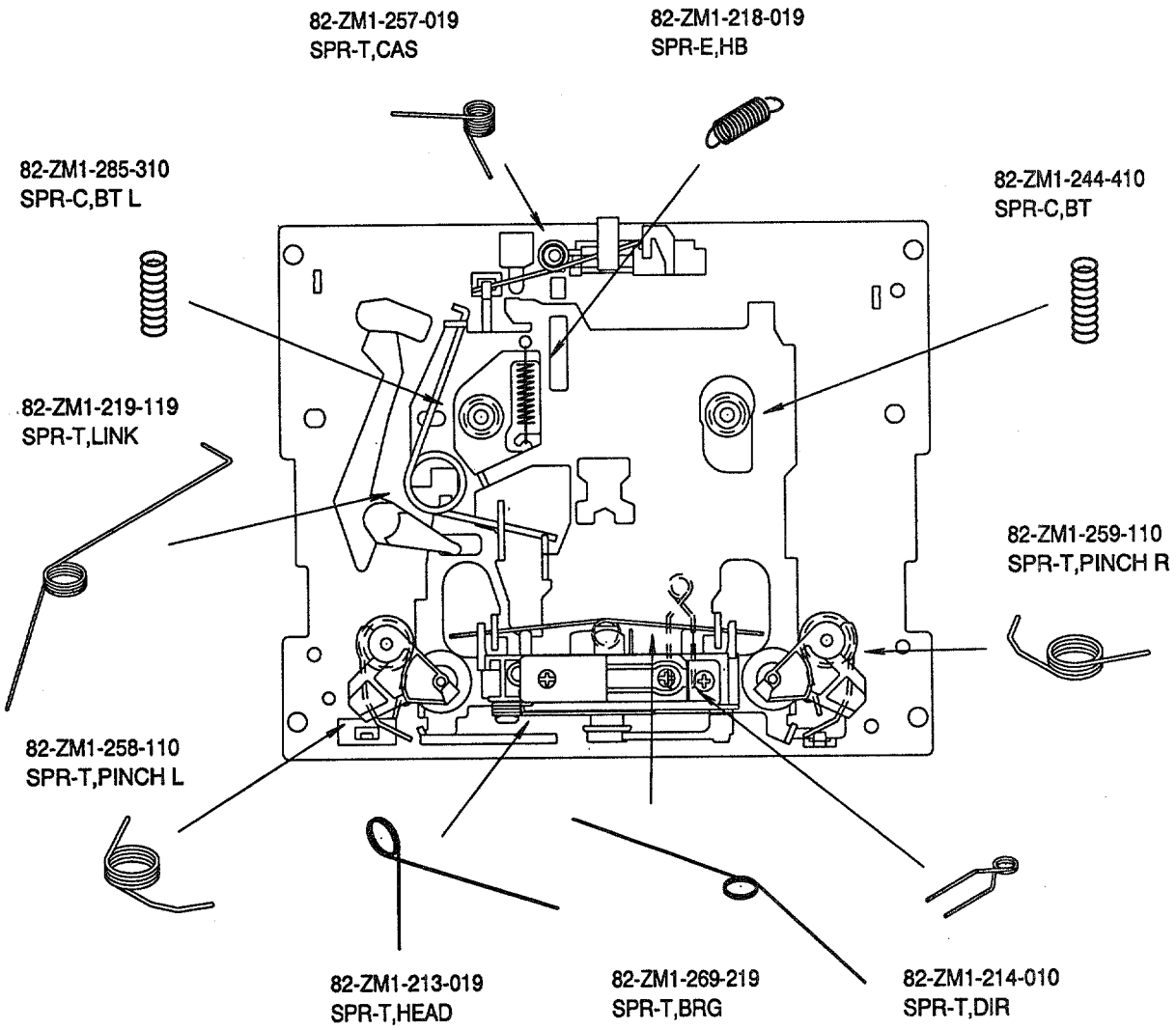
35
41
48
E
37
33
45
36
46
31
34
D
C
32
58
D
A
40
55
59
(DECK 1)
39
B
38
D
C
C
54
53

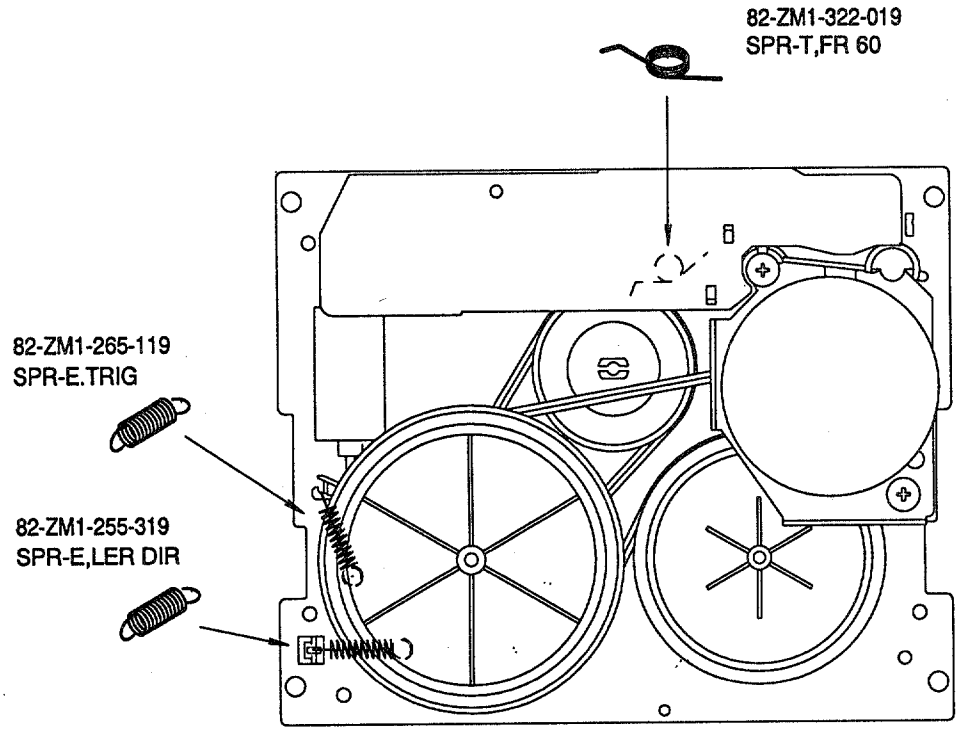
TAPE MECHANISM PARTS LIST 1 / 1

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
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

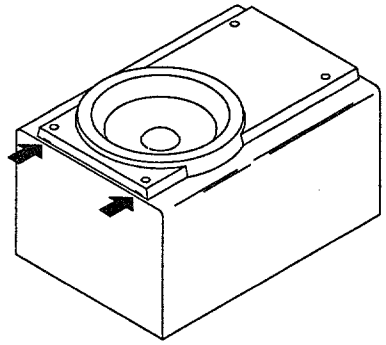




SPEAKER DISASSEMBLY INSTRUCTIONS

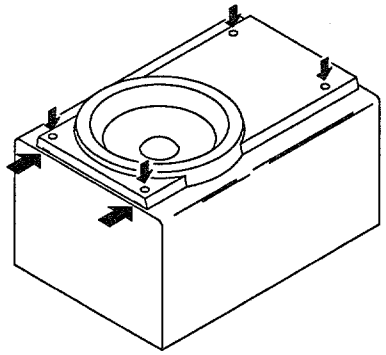
Type.1

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.



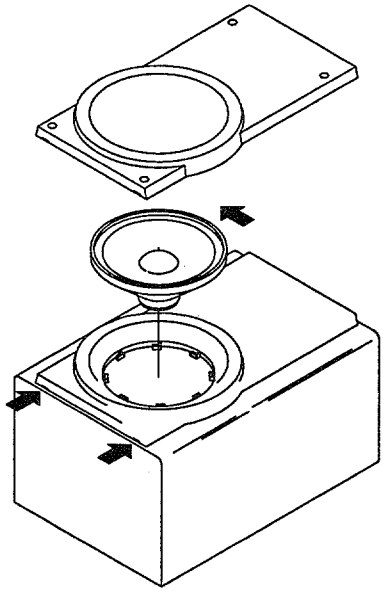
Type.2

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.

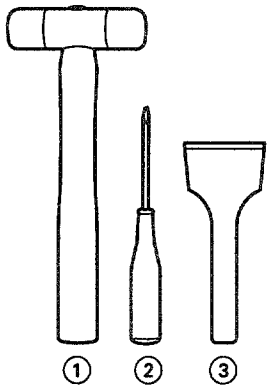


Type.3

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.

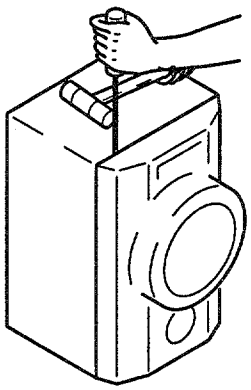


Fig-1

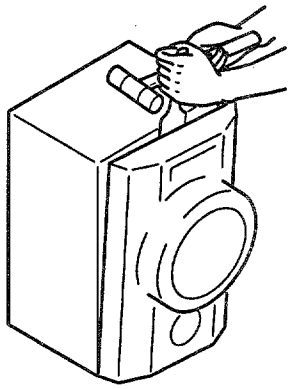


Fig-2

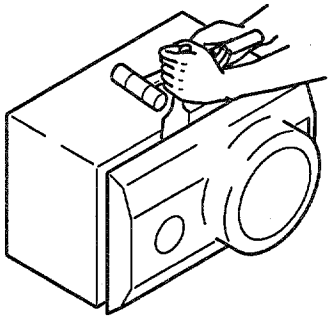


Fig-3

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.

SX-WNA777 (YUSTL), SX-WNS777 (YLSTCC, YLSTL)
SPEAKER PARTS LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-NS7-604-010		SPKR, W 160<YLSTL>
1	8Z-NS7-606-010		SPKR, W 160<YLSTCC>
1	8Z-NS7-602-010		SPKR, W 160 WNS777<YUSTL>
2	8Z-NSY-604-010		SPKR, M 100<YLSTL,YUSTL>
2	8Z-NS7-608-010		SPKR, M 100<YLSTCC>
3	8Z-NSY-001-010		PANEL,FR<YLSTL,YLSTCC>
3	8Z-NS7-006-010		PANEL,FR N<YUSTL>
4	8Z-NSY-002-010		PANEL,BA
5	8Z-NSY-003-010		CORD,BUSH
6	8Z-NSY-004-010		PROTECTOR, TW
7	88-NS5-610-010		CORD,SPKR
8	88-NS5-611-010		CORD,SPKR B/L
9	8Z-NSY-608-010		SPKR, CERAMIC ASSY (SWNH33)
10	88-NS3-029-010		CORD,BUSH L
11	8Z-NS7-007-010		GRILLE,FRAME ASSY<YUSTL>

SX-NA772 (YUSTL)
SPEAKER PARTS LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-NSH-001-010		PANEL,FR
2	8Z-NSH-003-010		PANEL,RING(W)
3	8Z-NSH-004-010		GRILLE,FRAME ASSY
4	8Z-NSH-007-010		PROTECTOR,
5	87-NSH-612-010		CERAMIC ASSY
6	87-NS7-611-010		CORD,SPKR
7	83-NSL-602-010		SPEAKER WOOFER
8	83-NS8-606-010		SPEAKER MID

SX-R275 (YUSTNL)
SPEAKER PARTS LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-YS1-001-010		CABI,REAR
2	87-YS1-004-010		GRILLE FRAME ASSY
3	81-VSA-009-010		CORD BUSH
4	87-YS6-002-010		SPKR, CORD Y
5	87-YS6-601-010		SPKR, 100
6	87-010-384-010		CAP,E 100-25 SME(R275)
7	87-YS6-913-010		IB,YU(ESF)T

ACCESSORIES / PACKAGE LIST

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-NF7-902-010		IB,LH(ESP)M<LH>
1	8Z-NF7-913-010		IB,U(ESF)M A767<767U>
1	8Z-NF7-903-010		IB,U(ESF)M A777<777U>
2	8Z-NF8-701-110		RC UNIT,RC-ZAS01
3	87-006-225-010		AM LOOP ANT NC2
4	87-043-115-010		ANT,FEEDER FM
⚠ 5	87-A91-017-010		PLUG,CONVERSION JT-0476<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
G－ －	
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