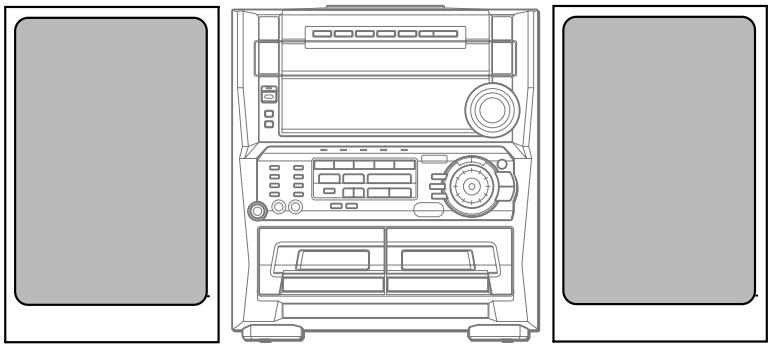
aiwa SERVICE

Z-HT730 K, EZ



SERVICE MANUAL

COMPACT DISC STEREO
CASSETTE RECEIVER

BASIC TAPE MECHANISM : 2ZM-3MK2 PR5NM
BASIC CD MECHANISM : 6ZG-1 ZRDM

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
Z–HT730	CX–ZHT730	SX–ZHT730 SX–CR677	RC–ZAS05

- This Service Manual is the "Revision Publishing" and replaces "Simple Manual" Z-HT730, (S/M Code No. 09-003-422-7T3).
- If requiring information about the CD mechanism, see Service Manual of 6ZG-1, (S/M Code No. 09-001-338-7N2).

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S/M Code No. 09-006-433-9R1

REVISION DATA

SPECIFICATIONS

FM tuner section

Tuning range 87.5 MHz to 108 MHz
Usable sensitivity (IHF) 13.2 dBf
Antenna terminals 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 µV/m
Antenna Loop antenna

LW tuner section

Tuning range 144 kHz to 290 kHz
Usable sensitivity 1400 µV/m
Antenna Loop antenna

Amplifier section

Power output

Front
Rated: 120 W + 120 W
(6 ohms, T.H.D. 1 %, 1 kHz)
Reference: 150 W + 150 W
(6 ohms, T.H.D. 10 %, 1 kHz)
DIN MUSIC POWER<EZ>:
260 W + 260 W
Rear (Surround)
Rated: 33 W + 33 W
(8 ohms, T.H.D. 1 %, 1 kHz)
Reference: 40 W + 40 W
(8 ohms, T.H.D. 10 %, 1 kHz)
DIN MUSIC POWER<EZ>:
85 W + 85 W
Centre
Rated: 34 W
(8 ohms, T.H.D. 1 %, 1 kHz)
Reference: 40 W
(8 ohms, T.H.D. 10 %, 1 kHz)
DIN MUSIC POWER<EZ>: 85 W

Total harmonic distortion 0.15 % (60 W, 1 kHz, 6 ohms, DIN AUDIO/Front)

Inputs
VIDEO/AUX: 310 mV (adjustable)
PHONO: 400 mV (47 kohms)
5.1CH INPUT (adjustable)
FRONT: 240 mV
SURROUND: 240 mV
CENTER: 600 mV
SUB WOOFER: 240 mV
MIC1, MIC2: 1.4mV (20 kohms)

Outputs
CD DIGITAL OUT (OPTICAL)
SUB WOOFER: 1V
SPEAKERS:
accept speakers of 6 ohms or more
SURROUND SPEAKERS:
accept speakers of 8-16 ohms
CENTER SPEAKERS:
accept speakers of 8 ohms or more
PHONES (stereo jack):
accepts headphones of 32 ohms or more

Cassette deck section

Track format 4 tracks, 2 channels stereo
Frequency response CrO_2: tape: 50 Hz - 16000 Hz
Normal tape: 50 Hz - 15000 Hz
Signal-to-noise ratio 50 dB (CrO_2 tape peak level, above 400 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 (1 kHz, 0 dB)
Harmonic distortion 0.05 % (1 kHz, 0 dB)
Wow and flutter Unmeasurable

General

Power requirements 230 V AC, 50 Hz
Power consumption 240 W
Dimensions of main unit (W x H x D) 360 x 395.3 x 402.3 mm ($14^1/_4$ x $15^5/_8$ x $15^7/_8$ in)
Weight of main unit 12.8 kg (28 lbs. 4 oz)

Speaker system SX–ZHT730

Cabinet type 3 way, bass reflex
Speakers Woofer:
220 mm ($8^3/_4$ in.) cone type
Tweeter:
60 mm ($2^3/_8$ in.) cone type
Super tweeter:
20 mm ($^{13}/_{16}$ in.) ceramic type
Impedance 6 ohms
Output sound pressure level 89 dB/W/m
Dimensions (W x H x D) 260 x 495 x 314 mm ($10^1/_4$ x $19^1/_2$ x $12^3/_8$ in.)
Weight 6.3 kg (13 lbs. 14 oz.)

- Design and specifications are subject to change without notice.

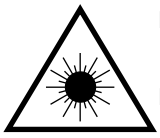
- The word "BBE"and the "BBE symbol" are trademarks of BBE Sound, Inc.
  Under license from BBE Sound,Inc.

- Manufactured under license from Dolby Laboratories Licensing Corporation.
  “DOLBY”, the double-D symbol ◻◻ and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

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

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



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

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

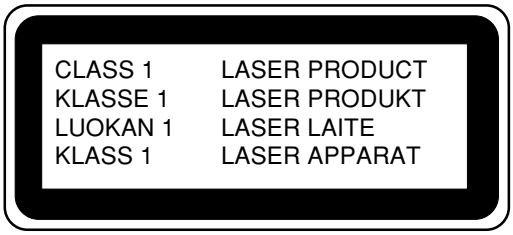
VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

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

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

ADVARSEL
Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



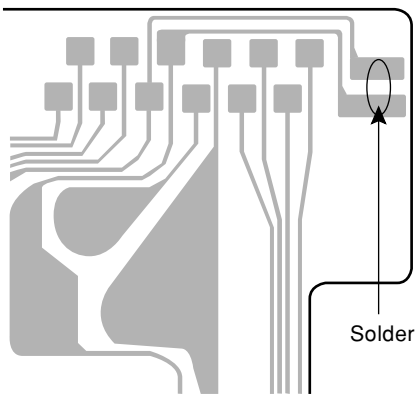
Precaution to replace Optical block

(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, 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 to 1 V or less using a multimeter or an oscilloscope.

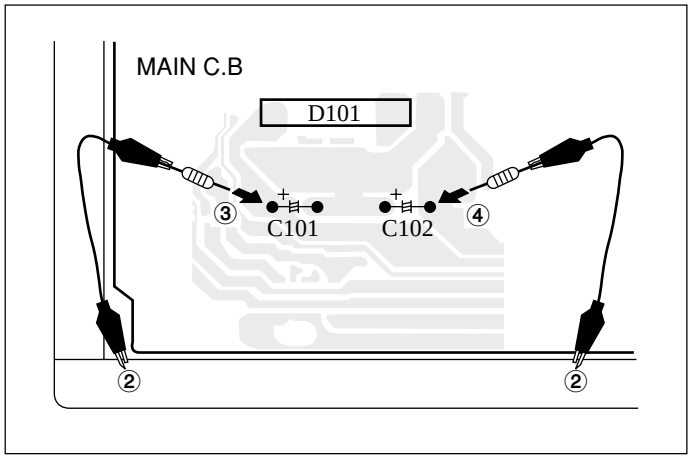


Fig-1

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.

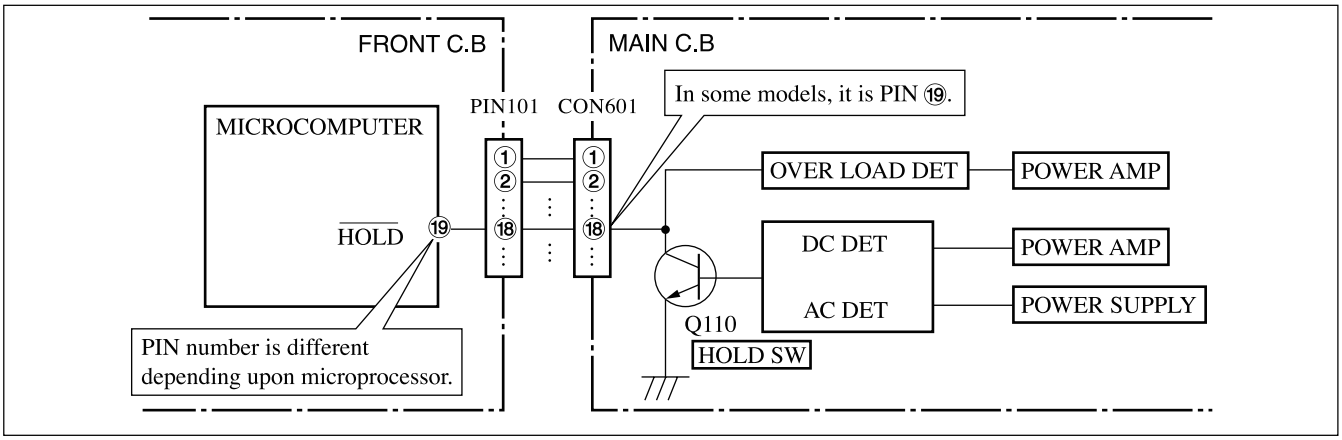


Fig-2-1

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 lead 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.

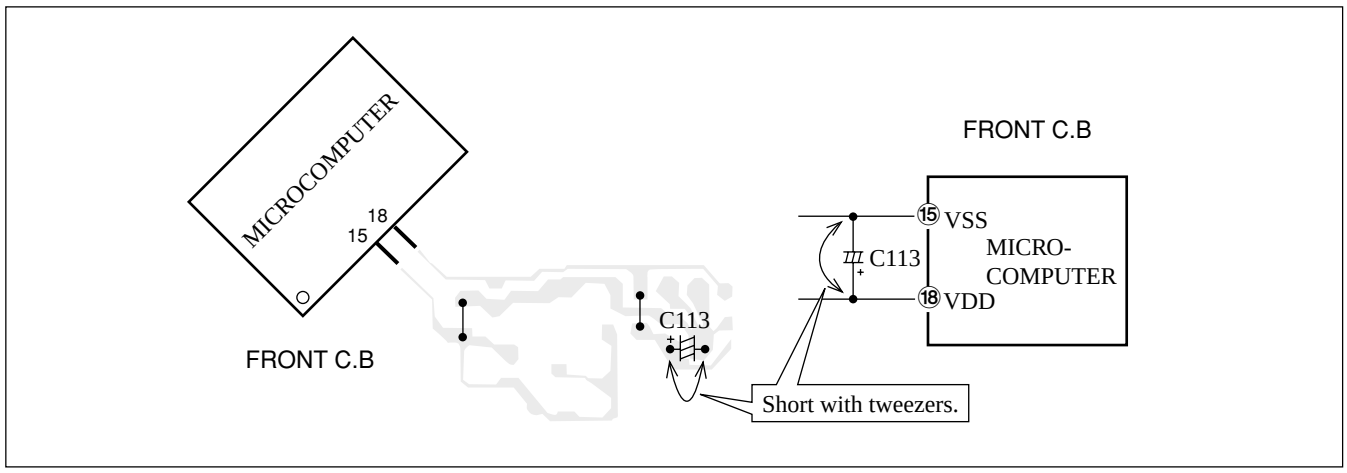


Fig-2-2

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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A21-397-010		IC,STK490-070
	87-A21-021-040		C-IC,BU2099FV
	87-A20-783-040		C-IC,BA7762AFS
	87-A21-577-040		C-IC,M61506FP
	87-A21-097-040		C-IC,M62463AFP
	87-A21-482-010		IC,RPM6938-H4
	87-A21-015-040		C-IC,M62491FP
	87-A21-452-040		C-IC,BD3876KS2
	87-A21-415-010		IC,LA1843
	87-A20-440-040		C-IC,BU1920FS
	8A-MA3-656-010		C-IC,LC876580W-5P55
	87-070-127-110		IC,LC72131 D
	87-070-289-040		C-IC,BU2092F
	87-020-454-010		IC,DN6851
TRANSISTOR			
	87-026-609-080		TR,KTA1266GR
	87-026-610-080		TR,KTC3198GR
	87-A30-076-080		C-TR,2SC3052F
	87-A30-075-080		C-TR,2SA1235F
	87-A30-318-080		TR,CSA952K
	87-A30-218-080		TR,2SB1237Q
	87-A30-097-010		TR,FN1016
	87-A30-098-010		TR,FP1016
	87-A30-186-010		FET,2SK3053
	89-213-702-010		TR,2SB1370 (1.8W)
	87-A30-107-070		C-TR,CMBT5401
	87-026-245-080		TR,DTC114ES
	87-A30-198-080		TR,KTC3199GR
	87-A30-484-080		C-TR,KRA102S
	87-A30-257-080		C-TR,2SD1306E
	87-A30-087-080		C-FET,2SK2158
	87-A30-468-080		C-TR,KRC102S-RTK
	87-A30-106-070		C-TR,CMBT5551
	87-A30-106-040		C-TR,CMBT5551
	87-A30-190-080		TR,CC5551
	87-A30-256-010		TR,2SD1933
	87-A30-255-010		TR,2SB1342
	87-A30-074-080		C-TR,RT1P 141C
	87-A30-329-080		TR,CD1585BC
	87-A30-063-080		C-TR,KRA104S
	89-327-143-080		TR,2SC2714 (0.1W)
	87-A30-489-080		C-TR,KRA107S
	87-A30-086-070		C-TR,CSD1306E
	89-503-602-080		C-FET,2SK360E
	87-A30-234-080		TR,CSC4115BC
	87-026-463-080		TR,2SA933SRS
DIODE			
	87-020-465-080		DIODE,1SS133 (110MA)
	87-A40-673-090		DIODE,D10XB20
	87-A40-553-080		DIODE,1N4003 LES
	87-A40-780-080		ZENER,UZ33BSD
	87-A40-764-080		ZENER,UZ10BSC
	87-A40-313-080		C-DIODE,MC 2840
	87-A40-455-080		DIODE,RL203 GM
	87-A40-646-010		DIODE,FMB-G16L
	87-A40-270-080		C-DIODE,MC2838
	87-A40-269-080		C-DIODE,MC2836
	87-A40-768-080		ZENER,UZ16BSA
	87-017-447-010		DIODE,GBU4DL-6419
	87-017-931-080		ZENER,MTZJ5.6B
	87-017-154-080		ZENER,HZS6C3L
	87-020-331-080		CHIP-DIODE,DAN202K
	87-017-654-060		DIODE,GBU6JL-6131
	87-A40-488-080		DIODE,1SS244
	87-A40-751-080		ZENER,UZ6.2BSB
	87-A40-760-080		ZENER,UZ9.1BSA
	87-A40-747-080		ZENER,UZ5.1BSB
	87-A40-438-080		ZENER,MTZJ4.7A
	87-017-149-080		ZENER,HZS6A2L
MAIN C.B			
C3	87-A10-712-080		C-CAP,S 0.22-50 Z F
C4	87-A10-712-080		C-CAP,S 0.22-50 Z F
C21	87-016-035-090		CAP,E 6800-35 M VR
C22	87-016-035-090		CAP,E 6800-35 M VR
C25	87-016-300-080		CAP, ELECT 22-100
C26	87-016-300-080		CAP, ELECT 22-100
C27	87-016-300-080		CAP, ELECT 22-100
C28	87-016-300-080		CAP, ELECT 22-100
C31	87-010-263-080		CAP, ELECT 100-10V
C32	87-010-197-080		CAP, CHIP 0.01 DM
C34	87-010-247-080		CAP, ELECT 100-50V
C35	87-010-406-080		CAP, ELECT 22-50V
C36	87-010-381-080		CAP, ELECT 330-16V
C38	87-010-394-080		CAP, ELECT 220-35V
C39	87-010-394-080		CAP, ELECT 220-35V
C40	87-010-197-080		CAP, CHIP 0.01 DM
C60	87-010-403-080		CAP, ELECT 3.3-50V
C80	87-010-401-080		CAP, ELECT 1-50V
C81	87-010-374-080		CAP, ELECT 47-10V
C82	87-010-380-080		CAP, ELECT 47-16V
C115	87-010-405-080		CAP, ELECT 10-50V
C116	87-010-405-080		CAP, ELECT 10-50V
C117	87-010-196-080		CHIP CAPACITOR,0.1-25
C160	87-010-196-080		CHIP CAPACITOR,0.1-25
C161	87-012-280-080		C-CAP,U 3300P-50 KB
C162	87-012-280-080		C-CAP,U 3300P-50 KB
C171	87-012-368-080		C-CAP,S 0.1-50 F
C172	87-012-368-080		C-CAP,S 0.1-50 F
C173	87-012-368-080		C-CAP,S 0.1-50 F
C174	87-012-368-080		C-CAP,S 0.1-50 F
C175	87-012-280-080		C-CAP,U 3300P-50 KB
C176	87-012-280-080		C-CAP,U 3300P-50 KB
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	87-012-157-080		C-CAP,S 330P-50 CH
C306	87-012-157-080		C-CAP,S 330P-50 CH
C307	87-010-196-080		CHIP CAPACITOR,0.1-25
C309	87-010-196-080		C-CAP,S 0.1-25 ZF
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-50KB
C314	87-010-178-080		C-CAP,S 1000P-50KB
C315	87-010-178-080		C-CAP,S 1000P-50KB
C316	87-010-178-080		C-CAP,S 1000P-50KB
C321	87-012-142-080		CAP, S 0.33-16
C322	87-012-142-080		CAP, S 0.33-16
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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C355	87-010-178-080		CHIP CAP 1000P
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
C370	87-010-196-080		CHIP CAPACITOR,0.1-25
C373	87-A11-177-080		C-CAP,S 0.15-16 K B
C374	87-A11-177-080		C-CAP,S 0.15-16 K B
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
C386	87-010-196-080		CHIP CAPACITOR,0.1-25
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
C395	87-010-197-080		C-CAP,S 0.01-25 K B
C401	87-010-176-080		C-CAP,S 680P-50 SL
C402	87-010-176-080		C-CAP,S 680P-50 SL
C403	87-010-958-080		CHIP -CAP,S 0.01-25BJ
C404	87-010-958-080		CHIP -CAP,S 0.01-25BJ
C405	87-010-958-080		CHIP -CAP,S 0.01-25BJ
C406	87-010-958-080		CHIP -CAP,S 0.01-25BJ
C407	87-010-401-080		CAP, ELECT 1-50V
C408	87-010-401-080		CAP, ELECT 1-50V
C409	87-010-196-080		CHIP CAPACITOR,0.1-25
C410	87-010-384-080		CAP, ELECT 100-25V
C411	87-010-402-080		CAP, ELECT 2.2-50V
C412	87-010-402-080		CAP, ELECT 2.2-50V
C413	87-010-401-080		CAP, ELECT 1-50V
C414	87-010-401-080		CAP, ELECT 1-50V
C415	87-010-546-080		CAP, ELECT 0.33-50V
C416	87-010-546-080		CAP, ELECT 0.33-50V
C417	87-010-221-080		CAP, ELECT 470-10V
C418	87-A10-891-080		CAP,E 4.7-25 SME(K)
C419	87-A10-800-080		C-CAP,S 6800P-16 J B CM
C420	87-010-374-080		CAP, ELECT 47-10V
C421	87-010-196-080		CHIP CAPACITOR,0.1-25
C422	87-A10-804-080		C-CAP,S 0.1-25 J B
C423	87-010-374-080		CAP, ELECT 47-10V
C424	87-010-374-080		CAP, ELECT 47-10V
C425	87-010-196-080		CHIP CAPACITOR,0.1-25
C430	87-012-142-080		CAP, S 0.33-16
C431	87-010-971-080		C-CAP,S 4700P-50 B J
C432	87-010-178-080		CHIP CAP 1000P
C433	87-A11-183-080		C-CAP,S 0.12-16 J B
C434	87-A11-182-080		C-CAP,S 0.27-16 J B
C435	87-A11-182-080		C-CAP,S 0.27-16 J B
C436	87-A11-183-080		C-CAP,S 0.12-16 J B
C437	87-010-971-080		C-CAP,S 4700P-50 B J
C438	87-010-178-080		CHIP CAP 1000P
C439	87-010-805-080		CAP, S 1-16
C440	87-010-401-080		CAP, ELECT 1-50V
C441	87-A10-799-080		C-CAP,S 5600P-16 J B CM
C442	87-A10-802-080		C-CAP,S 0.047-16 J B CM
C443	87-A10-229-080		C-CAP,S 0.68-10 K W5
C444	87-016-460-080		C-CAP,S 0.22-16 B
C445	87-016-460-080		C-CAP,S 0.22-16 B
C446	87-010-404-080		CAP, ELECT 4.7-50V
C447	87-010-404-080		CAP, ELECT 4.7-50V
C448	87-016-460-080		C-CAP,S 0.22-16 B
C449	87-016-460-080		C-CAP,S 0.22-16 B
C450	87-016-081-080		C-CAP,S 0.1-16 RK
C451	87-A10-802-080		C-CAP,S 0.047-16 J B CM
C452	87-A10-802-080		C-CAP,S 0.047-16 J B CM
C453	87-016-081-080		C-CAP,S 0.1-16 RK
C454	87-016-081-080		C-CAP,S 0.1-16 RK
C455	87-A10-801-080		C-CAP,S 0.022-16 J B CM
C456	87-A10-801-080		C-CAP,S 0.022-16 J B CM
C457	87-016-081-080		C-CAP,S 0.1-16 RK
C461	87-010-196-080		CHIP CAPACITOR,0.1-25
C463	87-010-196-080		CHIP CAPACITOR,0.1-25
C465	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C466	87-010-194-080		CAP, CHIP 0.047
C467	87-A10-201-080		C-CAP,S0.33-16 KB
C468	87-A10-060-080		C-CAP,S 0.18-16 K B
C478	87-010-265-080		CAP, ELECT 33-16V
C479	87-010-179-080		CAP,CHIP S B1200P
C480	87-010-179-080		CAP,CHIP S B1200P
C481	87-010-179-080		CAP,CHIP S B1200P
C482	87-010-179-080		CAP,CHIP S B1200P
C483	87-010-265-080		CAP, ELECT 33-16V
C489	87-010-402-080		CAP, ELECT 2.2-50V
C491	87-010-402-080		CAP, ELECT 2.2-50V
C492	87-010-402-080		CAP, ELECT 2.2-50V
C531	87-010-405-080		CAP, E 10-50 M 11L SME
C532	87-010-196-080		CAP, S 0.1-25 ZF
C533	87-010-196-080		CAP, S 0.1-25 ZF
C534	87-012-156-080		CAP, S 220P-50 J CH GRM
C535	87-010-178-080		CAP, S 1000P-50 K B
C536	87-010-196-080		CAP, S 0.1-25 ZF
C541	87-010-178-080		C-CAP, S 1000P-50 K B
C611	87-010-956-080		CHIP-CAP,S 0.068-25B
C612	87-010-369-080		C-CAP,S 0.033-25 K B
C613	87-010-190-080		S CHIP F 0.01
C614	87-016-669-080		C-CAP,S 0.1-25 K B
C616	87-010-185-080		C-CAP,S 3900P-50 K B
C617	87-010-194-080		C-CAP,S 0.047-25 ZF
C618	87-010-401-080		CAP, ELECT 1-50V
C619	87-010-263-080		CAP, ELECT 100-10V
C620	87-016-669-080		C-CAP,S 0.1-25 K B
C621	87-010-197-080		CAP, CHIP 0.01 DM
C623	87-010-401-080		CAP, ELECT 1-50V
C624	87-010-401-080		CAP, ELECT 1-50V
C626	87-A11-590-080		C-CAP,S 0.047-16 K B
C627	87-010-400-080		CAP, ELECT 0.47-50V
C628	87-010-400-080		CAP, ELECT 0.47-50V
C629	87-A11-590-080		C-CAP,S 0.047-16 K B
C630	87-010-383-080		CAP, ELECT 33-25
C631	87-010-185-080		C-CAP,S 3900P-50 B
C632	87-010-185-080		C-CAP,S 3900P-50 B
C634	87-010-196-080		CHIP CAPACITOR,0.1-25
C635	87-A10-307-080		CAP-M 0.1-50 J
C636	87-A10-307-080		CAP-M 0.1-50 J
C637	87-A10-307-080		CAP-M 0.1-50 J
C638	87-A10-307-080		CAP-M 0.1-50 J
C639	87-010-405-080		CAP, ELECT 10-50V
C643	87-010-196-080		C-CAP,S 0.1-25 ZF
C644	87-010-401-080		CAP, ELECT 1-50V
C671	87-010-322-080		C-CAP,S 100P-50 CH
C672	87-010-322-080		C-CAP,S 100P-50 CH
C673	87-010-190-080		S CHIP F 0.01
C675	87-010-196-080		CHIP CAPACITOR,0.1-25
C679	87-010-196-080		CHIP CAPACITOR,0.1-25
C680	87-010-196-080		CHIP CAPACITOR,0.1-25
C682	87-010-196-080		CHIP CAPACITOR,0.1-25
C683	87-010-197-080		C-CAP,S 0.01-25 KB
C771	87-010-263-080		CAP, ELECT 100-10V
C772	87-010-197-080		CAP, CHIP 0.01 DM
C779	87-010-971-080		C-CAP,S 4700P-50 KB
C780	87-010-971-080		C-CAP,S 4700P-50 KB
C782	87-010-197-080		CAP, CHIP 0.01 DM
C783	87-010-197-080		CAP, CHIP 0.01 DM
C784	87-010-197-080		CAP, CHIP 0.01 DM
C785	87-010-197-080		CAP, CHIP 0.01 DM
C786	87-010-197-080		CAP, CHIP 0.01 DM
C788	87-010-149-080		C-CAP,S 5P-50 CH
C789	87-A10-801-080		C-CAP,S 0.022-16 J B CM

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C790	87-A10-801-080		C-CAP,S 0.022-16 J B CM
C791	87-010-196-080		CHIP CAPACITOR,0.1-25
C792	87-010-197-080		CAP, CHIP 0.01 DM
C793	87-010-404-080		CAP, ELECT 4.7-50V
C795	87-010-197-080		CAP, CHIP 0.01 DM
C796	87-010-197-080		CAP, CHIP 0.01 DM
C797	87-010-405-080		CAP, ELECT 10-50V
C798	87-010-197-080		CAP, CHIP 0.01 DM
C799	87-010-407-080		CAP, ELECT 33-50V
C800	87-010-194-080		CAP, CHIP 0.047
C801	87-010-403-080		CAP, ELECT 3.3-50V
C802	87-010-194-080		CAP, CHIP 0.047
C803	87-010-198-080		CAP, CHIP 0.022
C804	87-010-263-080		CAP, ELECT 100-10V
C807	87-010-400-080		CAP, ELECT 0.47-50V
C808	87-010-401-080		CAP, ELECT 1-50V
C809	87-010-401-080		CAP, ELECT 1-50V
C810	87-010-196-080		CHIP CAPACITOR,0.1-25
C811	87-010-403-080		CAP, ELECT 3.3-50V
C812	87-010-403-080		CAP, ELECT 3.3-50V
C814	87-010-197-080		CAP, CHIP 0.01 DM
C815	87-010-403-080		CAP, ELECT 3.3-50V
C816	87-010-403-080		CAP, ELECT 3.3-50V
C818	87-010-180-080		C-CER 1500P
C819	87-010-179-080		CAP,CHIP S B1200P
C820	87-010-179-080		CAP,CHIP S B1200P
C821	87-010-405-080		CAP, ELECT 10-50V
C823	87-012-349-080		C-CAP,S 1000P-50 J CH
C824	87-010-405-080		CAP, ELECT 10-50V
C825	87-010-596-080		CAP, S 0.047-16
C831	87-010-406-080		CAP, ELECT 22-50
C842	87-010-197-080		CAP, CHIP 0.01 DM
C844	87-010-197-080		CAP, CHIP 0.01 DM
C849	87-010-196-080		CHIP CAPACITOR,0.1-25
C850	87-010-260-080		CAP, ELECT 47-25V
C851	87-010-197-080		CAP, CHIP 0.01 DM
C852	87-010-197-080		CAP, CHIP 0.01 DM
C853	87-010-197-080		CAP, CHIP 0.01 DM
C858	87-010-196-080		CHIP CAPACITOR,0.1-25
C859	87-010-196-080		CHIP CAPACITOR,0.1-25
C860	87-010-197-080		CAP, CHIP 0.01 DM
C869	87-010-197-080		CAP, CHIP 0.01 DM
C871	87-012-156-080		C-CAP,S 220P-50 CH
C872	87-012-156-080		C-CAP,S 220P-50 CH
C873	87-012-140-080		CAP 470P
C874	87-010-405-080		CAP, ELECT 10-50V
C875	87-010-196-080		CHIP CAPACITOR,0.1-25
C876	87-010-405-080		CAP, ELECT 10-50V
C877	87-010-197-080		CAP, CHIP 0.01 DM
C878	87-010-316-080		C-CAP,S 33P-50 CH
C879	87-010-314-080		C-CAP,S 22P-50V
C940	87-010-197-080		CAP, CHIP 0.01 DM
C942	87-010-149-080		CHIP CAP 5P-50
C947	87-010-197-080		CAP, CHIP 0.01 DM
C948	87-012-140-080		CAP 470P
C952	87-010-197-080		CAP, CHIP 0.01 DM
C957	87-010-311-080		CAP 12P
C958	87-010-197-080		CAP, CHIP 0.01 DM
C959	87-010-196-080		CHIP CAPACITOR,0.1-25
C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C962	87-010-401-080		CAP, ELECT 1-50V
C963	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C971	87-010-381-080		CAP, ELECT 330-16V
C972	87-010-404-080		CAP, ELECT 4.7-50V
C973	87-010-197-080		CAP, CHIP 0.01 DM
C974	87-010-197-080		CAP, CHIP 0.01 DM
C979	87-010-322-080		C-CAP,S 100P-50 CH
C981	87-010-260-080		CAP, ELECT 47-25V
C982	87-010-196-080		CHIP CAPACITOR,0.1-25
C983	87-010-197-080		CAP, CHIP 0.01 DM
C984	87-010-197-080		CAP, CHIP 0.01 DM
C985	87-010-322-080		C-CAP,S 100P-50 CH
C987	87-010-197-080		CAP, CHIP 0.01 DM
C989	87-010-197-080		CAP, CHIP 0.01 DM
C991	87-010-312-080		C-CAP,S 15P-50 CH
C992	87-010-312-080		C-CAP,S 15P-50 CH
C993	87-010-178-080		CHIP CAP 1000P
C995	87-010-178-080		CHIP CAP 1000P
C997	87-010-196-080		CHIP CAPACITOR,0.1-25
C998	87-010-260-080		CAP, ELECT 47-25V
C999	87-A11-155-080		CAP,TC U 0.01-16 Z F
CF831	87-008-423-010		CERAMIC FILTER, SFE10.7
CF832	82-785-747-010		CF MS2 GHY R
CN1	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3
CN91	87-A60-109-010		CONN,2P V S2M-2W
CN92	87-A60-109-010		CONN,2P V S2M-2W
CN101	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3
CN301	87-A60-620-010		CONN,3P V 2MM JMT
CN351	87-A60-625-010		CONN,8P V 2MM JMT
CN601	87-099-719-010		CONN,30P TYK-B(X)
CN602	87-A60-131-010		CONN,6P V FE
CNA1	8A-NF8-653-010		CONN ASSY,9P TID-A(480)
CNA2	8A-NF6-640-010		CONN ASSY,3P (VM) ANF-6
FB161	87-003-223-080		FERRITE BEAD BL02RN2
FB162	87-003-223-080		FERRITE BEAD BL02RN2
FB301	87-A90-896-080		F-BEAD,035600STY7
FC602	88-906-321-110		FF-CABLE, 6P 1.25 320MM
FFE831	A8-6ZA-191-130		6ZA-1 FEENM
J101	87-A60-483-010		JACK,DIA6.3 BLK ST W/S KM
J102	87-A60-238-010		TERMINAL,SP 4P (MSC)
J431	87-A61-069-010		JACK,PIN 6P R/W,R/W, O/B MSC
J603	87-A60-926-010		JACK,PIN 4P R/W TC58-118
J832	87-A60-403-010		TERMINAL,ANT PAL 2P HSP-312V05
JR301	83-XM1-617-080		C-COIL,BK2125HM601
JR302	83-XM1-617-080		C-COIL,BK2125HM601
JR335	87-A50-192-080		C-COIL,S BLM21P300S
JR340	83-XM1-617-080		C-COIL,BK2125HM601
JR406	87-012-195-080		C-CAP,U 100P-50 J CH
JW411	87-003-216-080		F-BEAD,-3.6-5 BL01RN1-A62T5
JW416	87-A90-896-080		F-BEAD,035600STY7
JW625	87-A90-896-080		F-BEAD,035600STY7
JW646	87-A90-896-080		F-BEAD,035600STY7
JW659	87-A90-896-080		F-BEAD,035600STY7
JW991	87-A90-896-080		F-BEAD,035600STY7
L101	87-A50-610-010		COIL,1UH-K
L102	87-A50-610-010		COIL,1UH-K
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
L801	87-A50-540-010		COIL,FM DET(TOK)
L802	87-A91-551-010		FLTR,PCFJZH-450 L(TOK)
L811	87-005-847-080		COIL,2.2UH(CECS)
L832	87-005-847-080		COIL,2.2UH(CECS)
L861	87-005-847-080		COIL,2.2UH(CECS)
L941	87-A50-020-010		COIL,ANT LW(COI)
L942	87-A50-019-010		COIL,OSC LW(COI)
L951	8A-NF8-668-010		COIL,AM PACK 2(TOK)
R161	87-A00-441-050		RES,270-1/2W J RP
R162	87-A00-441-050		RES,270-1/2W J RP
R163	87-A00-441-050		RES,270-1/2W J RP
R164	87-A00-441-050		RES,270-1/2W J RP
R391	87-010-322-080		C-CAP,S 100P-50 CH
R407	87-022-214-080		C-RES S100K-1/10WF
R445	87-010-195-080		C-CAP,S 0.068-25 F
R671	83-XM1-617-080		C-COIL,BK2125HM601
R672	83-XM1-617-080		C-COIL,BK2125HM601
R790	87-010-197-080		CAP, CHIP 0.01 DM
R991	87-010-322-080		C-CAP,S 100P-50 CH
R993	87-010-322-080		C-CAP,S 100P-50 CH
R995	87-010-322-080		C-CAP,S 100P-50 CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
SFR351	87-A90-433-080		SFR,50K H NVZ6TLTA
SFR352	87-A90-433-080		SFR,50K H NVZ6TLTA
TC942	87-011-253-080		TRIMER,30P LAR
WH1	87-A90-510-010		HLDR,WIRE 2.5-9P
X861	87-A70-091-010		VIB,XTAL 4.332MHZ CSA-309
X991	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
MICON C.B			
C101	87-010-498-040		CAP,E 10-16 GAS
C102	87-010-194-080		CAP, CHIP 0.047-25
C103	87-010-194-080		CAP, CHIP 0.047-25
C105	87-A11-242-040		CAP,E 220-10 M 5L SRM
C106	87-A11-242-040		CAP,E 220-10 M 5L SRM
C107	87-010-196-080		CHIP CAPACITOR,0.1-25
C111	87-016-460-080		C-CAP,S 0.22-16 K B
C112	87-010-493-040		CAP,E 0.47-50 GAS
C113	87-010-178-080		CHIP CAP 1000P-50
C114	87-018-209-080		CAP, TC U 0.01-50
C116	87-010-196-080		CHIP CAPACITOR,0.1-25
C122	87-012-369-080		C-CAP,S 0.047-50F
C123	87-010-408-040		CAP,E 47-50 SME
C124	87-010-421-040		CAP,E 4.7-50 5L
C125	87-010-421-040		CAP,E 4.7-50 5L
C132	87-012-156-080		C-CAP,S 220P-50 CH
C133	87-010-316-080		C-CAP,S 33P-50 CH
C134	87-010-178-080		C-CAP,S 1000P-50 K B
C135	87-018-209-080		CAP, TC U 0.01-50
C137	87-010-313-080		CAP, CHIP 18P-50
C138	87-010-196-080		CHIP CAPACITOR,0.1-25
C171	87-010-213-080		C-CAP,S 0.015-50 B
C172	87-010-183-080		C-CAP,S 2700P-50 B
C188	87-010-194-080		CAP, CHIP 0.047-25
C193	87-010-197-080		CAP, CHIP 0.01 DM
C251	87-010-196-080		CHIP CAPACITOR,0.1-25
C252	87-012-156-080		C-CAP,S 220P-50 CH
C253	87-010-322-080		C-CAP,S 100P-50 CH
C301	87-012-358-080		C-CAP,S 0.47-10 F Z
C302	87-012-158-080		C-CAP,S 390P-50 J CH GRM
C303	87-012-358-080		C-CAP,S 0.47-10 F Z
C304	87-012-358-080		C-CAP,S 0.47-10 F Z
C305	87-010-196-080		CHIP CAPACITOR,0.1-25
C306	87-010-196-080		CHIP CAPACITOR,0.1-25
C310	87-010-196-080		CHIP CAPACITOR,0.1-25
C311	87-010-405-040		CAP,E 10-50
C411	87-012-157-080		C-CAP,S 330P-50 CH
C412	87-010-405-040		CAP,E 10-50
C421	87-010-197-080		CAP, CHIP 0.01-25
C422	87-010-182-080		C-CAP,S 2200P-50 B
C940	87-012-145-080		CAP, CHIP S 270P-50 J CH
C941	87-012-145-080		CAP, CHIP S 270P CH
C942	87-012-145-080		CAP, CHIP S 270P CH
C943	87-012-145-080		CAP, CHIP S 270P CH
C944	87-012-145-080		CAP, CHIP S 270P CH
C945	87-012-145-080		CAP, CHIP S 270P CH
C946	87-012-145-080		CAP, CHIP S 270P CH
C947	87-012-145-080		CAP, CHIP S 270P CH
C948	87-012-145-080		CAP, CHIP S 270P CH
C949	87-012-145-080		CAP, CHIP S 270P CH
C950	87-012-145-080		CAP, CHIP S 270P CH
C951	87-012-145-080		CAP, CHIP S 270P CH
C952	87-012-145-080		CAP, CHIP S 270P CH
CN101	87-099-720-010		CONN,30P TYK-B(P)
CN102	87-A60-162-010		CONN,14P H FE
CN103	87-A60-168-010		CONN,20P H FE
CN104	87-A60-163-010		CONN,15P H FE
CN301	87-A60-156-010		CONN,8P H FE
CNA105	8A-MA3-654-010		CONN ASSY,2P V 200MM
FB001	87-A90-896-080		F-BEAD,035600STY7

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
FC102	88-914-231-110		FF-CABLE,14P 1.25
FC103	88-920-151-110		FF-CABLE,20P 1.25
FC104	88-915-151-110		FF-CABLE,15P 1.25 150MM
FL101	8A-MA3-651-010		FL,BJ751GNK
L101	87-A50-333-010		COIL,OSC 9.43MHZ
LED131	87-A40-317-080		LED,SLR-342VCT31 RED
LED201	87-A40-496-040		LED,SLR-342PCT31 GRN
LED202	87-A40-317-080		LED,SLR-342VCT31 RED
LED203	87-A40-496-040		LED,SLR-342PCT31 GRN
LED205	87-A40-317-080		LED,SLR-342VCT31 RED
LED206	87-A40-496-040		LED,SLR-342PCT31 GRN
LED207	87-A40-317-080		LED,SLR-342VCT31 RED
LED209	87-A40-496-040		LED,SLR-342PCT31 GRN
LED210	87-A40-317-080		LED,SLR-342VCT31 RED
LED211	87-A40-496-040		LED,SLR-342PCT31 GRN
LED212	87-A40-317-080		LED,SLR-342VCT31 RED
LED213	87-A40-317-080		LED,SLR-342VCT31 RED
LED214	87-A40-317-080		LED,SLR-342VCT31 RED
LED231	87-A40-317-080		LED,SLR-342VCT31 RED
LED232	87-A40-317-080		LED,SLR-342VCT31 RED
LED233	87-A40-496-040		LED,SLR-342PCT31 GRN
LED234	87-A40-496-040		LED,SLR-342PCT31 GRN
LED235	87-A40-496-040		LED,SLR-342PCT31 GRN
S401	87-A90-095-080		SW,TACT EVQ11G04M
S402	87-A90-095-080		SW,TACT EVQ11G04M
S403	87-A90-095-080		SW,TACT EVQ11G04M
S404	87-A90-095-080		SW,TACT EVQ11G04M
S405	87-A90-095-080		SW,TACT EVQ11G04M
S421	87-A91-625-010		SW,RTRY EC12E24308-30MM
CNTL C.B			
C602	87-010-069-040		CAP,E 0.33-50
C603	87-010-319-080		C-CAP,S 56P-50 CH
C604	87-010-178-080		CHIP CAP 1000P-50
C606	87-015-785-080		CHIP CAPACITOR, 0.1-25
C607	87-010-060-040		CAP,E 100-16
C611	87-010-186-080		CAP,CHIP 4700P-50
C612	87-015-699-040		CAP,E 10-50
C651	87-010-182-080		C-CAP,S 2200P-50 B
C652	87-010-197-080		CAP, CHIP 0.01-25
C661	87-010-196-080		CHIP CAPACITOR,0.1-25
C662	87-010-196-080		CHIP CAPACITOR,0.1-25
C663	87-012-156-080		C-CAP,S 220P-50 CH
C664	87-012-156-080		C-CAP,S 220P-50 CH
C686	87-010-196-080		CHIP CAPACITOR,0.1-25
C692	87-010-196-080		CHIP CAPACITOR,0.1-25
C846	87-010-196-080		CHIP CAPACITOR,0.1-25
CN661	87-A60-168-010		CONN,20P H FE
CNA602	8A-MA3-655-010		CONN ASSY,2P V 60MM
LED671	87-A40-317-080		LED,SLR-342VCT31 RED
LED672	87-A40-317-080		LED,SLR-342VCT31 RED
LED673	87-A40-317-080		LED,SLR-342VCT31 RED
LED674	87-A40-317-080		LED,SLR-342VCT31 RED
LED675	87-A40-317-080		LED,SLR-342VCT31 RED
LED677	87-A40-317-080		LED,SLR-342VCT31 RED
LED678	87-A40-317-080		LED,SLR-342VCT31 RED
LED679	87-A40-317-080		LED,SLR-342VCT31 RED
LED680	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED681	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED682	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED683	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED684	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED685	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED686	87-A40-678-010		LED,SELU1E10CXM BLUE-DEF
LED692	87-A40-678-010		LED,SELU1E10CXM BLUE-DEF
S651	87-A91-624-010		SW,RTRY EC12E1240405-20MM
S805	87-A90-095-080		SW,TACT EVQ11G04M
S806	87-A90-095-080		SW,TACT EVQ11G04M
S807	87-A90-095-080		SW,TACT EVQ11G04M

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
S808	87-A90-095-080		SW,TACT EVQ11G04M
S809	87-A90-095-080		SW,TACT EVQ11G04M
S810	87-A90-095-080		SW,TACT EVQ11G04M
S811	87-A90-095-080		SW,TACT EVQ11G04M
S812	87-A90-095-080		SW,TACT EVQ11G04M
S813	87-A90-095-080		SW,TACT EVQ11G04M
S814	87-A90-095-080		SW,TACT EVQ11G04M
S815	87-A90-095-080		SW,TACT EVQ11G04M
S816	87-A90-095-080		SW,TACT EVQ11G04M
S821	87-A90-095-080		SW,TACT EVQ11G04M
S822	87-A90-095-080		SW,TACT EVQ11G04M
S823	87-A90-095-080		SW,TACT EVQ11G04M
S824	87-A90-095-080		SW,TACT EVQ11G04M
S825	87-A90-095-080		SW,TACT EVQ11G04M
S826	87-A90-095-080		SW,TACT EVQ11G04M
S827	87-A90-095-080		SW,TACT EVQ11G04M
S828	87-A90-095-080		SW,TACT EVQ11G04M
S829	87-A90-095-080		SW,TACT EVQ11G04M
S830	87-A90-095-080		SW,TACT EVQ11G04M
S831	87-A90-095-080		SW,TACT EVQ11G04M
S836	87-A90-095-080		SW,TACT EVQ11G04M
S837	87-A90-095-080		SW,TACT EVQ11G04M
S838	87-A90-095-080		SW,TACT EVQ11G04M
S842	87-A90-095-080		SW,TACT EVQ11G04M
S843	87-A90-095-080		SW,TACT EVQ11G04M
S844	87-A90-095-080		SW,TACT EVQ11G04M
S845	87-A90-095-080		SW,TACT EVQ11G04M
S846	87-A90-095-080		SW,TACT EVQ11G04M
S847	87-A90-095-080		SW,TACT EVQ11G04M
S848	87-A90-095-080		SW,TACT EVQ11G04M
S849	87-A90-095-080		SW,TACT EVQ11G04M
S850	87-A90-095-080		SW,TACT EVQ11G04M
S851	87-A90-095-080		SW,TACT EVQ11G04M

AMP 1F C.B

C101	87-010-178-080		CHIP CAP 1000P-50
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
C105	87-010-186-080		C-CAP,S 4700P-50 K B
C106	87-010-186-080		C-CAP,S 4700P-50 K B
C107	87-010-406-080		CAP, E 22-50 M 11L SME
C108	87-010-404-080		CAP, ELECT 4.7-50V
C111	87-012-140-080		C-CAP,S 470P-50 J CH
C112	87-012-140-080		C-CAP,S 470P-50 J CH
C113	87-A10-812-080		C-CAP,S 220P-200 J CH
C114	87-A10-812-080		C-CAP,S 220P-200 J CH
C119	87-010-196-080		C-CAP,S 0.1-25 ZF
C120	87-010-196-080		C-CAP,S 0.1-25 ZF
C121	87-010-260-080		CAP, ELECT 47-25V
C122	87-010-260-080		CAP, ELECT 47-25V
C173	87-010-186-080		CAP,CHIP 4700P-50
C174	87-010-186-080		CAP,CHIP 4700P-50
C215	87-012-156-080		C-CAP,S 220P-50
C219	87-010-198-080		C-CAP,S 0.022-25 K B
C220	87-010-198-080		C-CAP,S 0.022-25 K B
C402	87-010-196-080		CHIP CAPACITOR,0.1-25
C413	87-A10-119-080		CAP,E 10-100 REA
C414	87-A10-119-080		CAP,E 10-100 REA
CNA102	8A-NF8-655-010		CONN ASSY,7P TID-A (250)
CNA103	8A-NF8-656-010		CONN ASSY,5P TID-A 400
CON101	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3
CON102	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3
CON103	87-A60-058-010		CONN,10P V 9604S-10C
JW101	87-A90-896-080		F-BEAD,035600STY7
JW124	87-A90-896-080		F-BEAD,035600STY7
R161	87-A00-418-010		RES,M/F 0.15-3W J
R162	87-A00-418-010		RES,M/F 0.15-3W J
R165	87-A00-418-010		RES,M/F 0.15-3W J
R166	87-A00-418-010		RES,M/F 0.15-3W J
TH101	87-A91-042-080		C-THMS,100K 55001
TH102	87-A91-042-080		C-THMS,100K 55001
WH102	87-A90-460-010		HLDR WIRE 2.5-7P
WH103	87-A90-459-010		HLDR,WIRE 2.5-5P

AMP 2F C.B

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	87-010-406-080		CAP, ELECT 22-50V
C108	87-010-406-080		CAP, ELECT 22-50V
C111	87-012-140-080		C-CAP,S 470P-50 CH
C112	87-012-140-080		C-CAP,S 470P-50 CH
C113	87-010-260-080		CAP, ELECT 47-25V
C114	87-010-260-080		CAP, ELECT 47-25V
C115	87-010-405-080		CAP, ELECT 10-50V
C116	87-010-405-080		CAP, ELECT 10-50V
C117	87-010-196-080		C-CAP,S 0.1-25 ZF C2012
C118	87-010-198-080		C-CAP,S 0.022-25 KB
C119	87-010-198-080		C-CAP,S 0.022-25 KB
C121	87-010-190-080		S CHIP F 0.01
C122	87-010-190-080		S CHIP F 0.01
C151	87-012-368-080		C-CAP,S 0.1-50 F
C152	87-012-368-080		C-CAP,S 0.1-50 F
C153	87-A11-595-080		C-CAP,S 0.056-50 K B
C154	87-A11-595-080		C-CAP,S 0.056-50 K B
C155	87-010-190-080		S CHIP F 0.01
C156	87-010-190-080		S CHIP F 0.01
C157	87-010-190-080		S CHIP F 0.01
C160	87-010-186-080		CAP,CHIP 4700P
C161	87-010-186-080		CAP,CHIP 4700P
C201	87-010-178-080		CHIP CAP 1000P
C202	87-010-258-080		CAP,E 22-35 SME
C203	87-012-156-080		C-CAP,S 220P-50 J CH GRM
C204	87-010-258-080		CAP,E 22-35 SME
C205	87-010-260-080		CAP, ELECT 47-25V
C206	87-012-156-080		C-CAP,S 220P-50 CH
C208	87-010-197-080		CAP, CHIP 0.01 DM
C209	87-010-260-080		CAP,E 47-25 M 11L SME
C210	87-010-260-080		CAP,E 47-25 M 11L SME
C251	87-012-368-080		C-CAP,S 0.1-50 F
C252	87-A11-595-080		C-CAP,S 0.056-50 K B
C253	87-A11-595-080		C-CAP,S 0.056-50 K B
C258	87-010-178-080		C-CAP,S 1000P-50 K B
CN101	87-A61-109-010		CONN,7P V TID-A
CN102	87-A60-135-010		CONN,10P V FE
FC102	88-910-201-110		FF-CABLE 10P 1.25
J101	87-A61-159-010		JACK,PIN 4P R/W/B/0 KM
L151	87-A50-610-010		COIL,1UH-K
L152	87-A50-610-010		COIL,1UH-K
L251	87-A50-610-010		COIL,1UH-K
R131	87-A00-258-080		RES,M/F 0.22-1W J
R132	87-A00-258-080		RES,M/F 0.22-1W J
R171	87-A00-258-080		RES,M/F 0.22-1W J
R172	87-A00-258-080		RES,M/F 0.22-1W J
R218	87-A00-257-080		RES,M/F 0.15-1W J
R278	87-A00-257-080		RES,M/F 0.15-1W J
TH201	87-A91-042-080		C-THMS,100K 55001

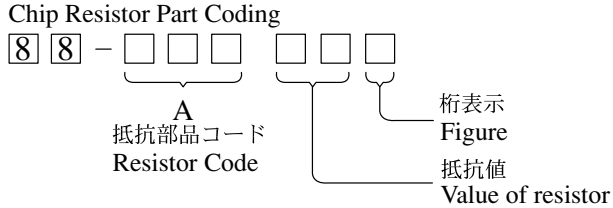
KEY CD C.B

CN701	87-A60-156-010		CONN,8P H FE
FC701	88-908-231-110		FF-CABLE,8P 1.25
LED771	87-A40-317-080		LED,SLR-342VCT31 RED
LED772	87-A40-317-080		LED,SLR-342VCT31 RED
LED773	87-A40-317-080		LED,SLR-342VCT31 RED
LED774	87-A40-317-080		LED,SLR-342VCT31 RED

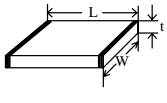
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
LED775	87-A40-317-080		LED,SLR-342VCT31 RED
S751	87-A90-095-080		SW,TACT EVQ11G04M
S752	87-A90-095-080		SW,TACT EVQ11G04M
S753	87-A90-095-080		SW,TACT EVQ11G04M
S754	87-A90-095-080		SW,TACT EVQ11G04M
S755	87-A90-095-080		SW,TACT EVQ11G04M
S756	87-A90-095-080		SW,TACT EVQ11G04M
S757	87-A90-095-080		SW,TACT EVQ11G04M
DK1 LED C.B			
LED724	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED725	87-A40-589-040		LED,SLR-56VCT31 RED
LED726	87-A40-619-040		LED,SLR-56PT-T31-W GRN
DK2 LED C.B			
CN721	87-A60-619-010		CONNECTOR 2P V 2MM
CNA722	8A-MA3-653-010		CONN ASSY,2P V 100MM
LED721	87-A40-619-040		LED,SLR-56PT-T31-W GRN
LED722	87-A40-589-040		LED,SLR-56VCT31 RED
LED723	87-A40-619-040		LED,SLR-56PT-T31-W GRN
MIC C.B			
C601	87-010-196-080		CHIP CAPACITOR,0.1-25
CN601	87-A60-619-010		CONNECTOR 2P V 2MM
FB603	83-XM1-617-080		C-COIL,BK 2125HM 601
J601	87-099-659-010		JACK,6.3 JY-6314-01130
J602	87-099-659-010		JACK,6.3 JY-6314-01130
VM C.B			
PT C.B			
C1	87-A11-148-080		CAP,TC U 0.1-50 Z F
C2	87-A11-148-080		CAP,TC U 0.1-50 Z F
C3	87-A11-148-080		CAP,TC U 0.1-50 Z F
C4	87-A11-148-080		CAP,TC U 0.1-50 Z F
C5	87-A11-148-080		CAP,TC U 0.1-50 Z F
C6	87-A11-148-080		CAP,TC U 0.1-50 Z F
C7	87-A11-148-080		CAP,TC U 0.1-50 Z F
C8	87-A11-148-080		CAP,TC U 0.1-50 Z F
C101	87-010-387-080		CAP,E 470-25 SME
C102	87-A11-148-080		CAP,TC U 0.1-50 Z F
C103	87-A11-148-080		CAP,TC U 0.1-50 Z F
C104	87-A11-148-080		CAP,TC U 0.1-50 Z F
C105	87-A11-148-080		CAP,TC U 0.1-50 Z F
C106	87-A11-148-080		CAP,TC U 0.1-50 Z F
C107	87-A11-148-080		CAP,TC U 0.1-50 Z F
C108	87-A11-148-080		CAP,TC U 0.1-50 Z F
C109	87-A11-148-080		CAP,TC U 0.1-50 Z F
C110	87-A11-148-080		CAP,TC U 0.1-50 Z F
C111	87-010-917-000		CAP,E 3300-50 M SMG
C112	87-010-917-000		CAP,E 3300-50 M SMG
C113	87-A10-231-090		CAP,E 3300-80
C114	87-A10-231-090		CAP,E 3300-80
C116	87-010-403-040		CAP,E 3.3-50 SME
CN1	87-A61-110-010		CONN,9P V TID-A
CN2	87-A61-108-010		CONN,5P V TID-A
⚠ F101	87-035-458-010		FUSE,4A 250V T W/C
⚠ FC101	87-033-213-080		CLAMP, FUSE
⚠ FC104	87-033-213-080		CLAMP, FUSE
⚠ PR103	87-026-682-080		PROTECTOR,10A 491SERIES 60V
⚠ PR106	87-026-682-080		PROTECTOR,10A 491SERIES 60V
⚠ PT1	8A-MAP-662-010		PT,AMA-23 EZ
⚠ PT2	8A-NF8-662-010		PT,SUB ANF-8 (E)
⚠ RY102	87-A90-976-010		RELAY,AC12V SDT-S-112LMR
⚠ T101	87-A60-317-010		TERMINAL, 1P MSC
⚠ T102	87-A60-317-010		TERMINAL, 1P MSC
DECK C.B			
CON502	87-099-756-010		CONN,15P 9604S F
SFR1	87-024-581-010		SFR,3.3K DIA 6H
SOL1	82-ZM1-626-010		SOL ASSY,27K
SOL2	82-ZM1-626-010		SOL ASSY,27K
SW1	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW2	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW3	87-A90-248-010		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-A90-248-010		SW,MICRO ESE11SH2CXQ
SW9	87-A90-248-010		SW,MICRO ESE11SH2CXQ
W1	82-ZM3-601-010		RBN-CORD,4P-75
HEAD-1 C.B			
	85-ZM3-601-010		PWB,FLEX I
CON301	8Z-NF3-643-010		CONN ASSY,3P-PB
HEAD-2 C.B			
	85-ZM3-601-010		PWB,FLEX I
CON351	8Z-NF3-644-010		CONN ASSY,8P-RPB

○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



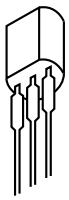
チップ抵抗
Chip resistor

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

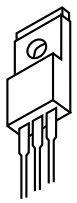
TRANSISTOR ILLUSTRATION

KTA1266GR
KTC3198GR
CD1585BC
CSA952K

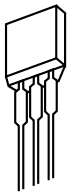
CC5551



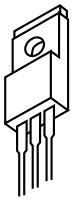
CSC4115BC



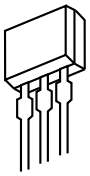
2SB1370
2SD1933
2SB1342
FN1016
FP1016



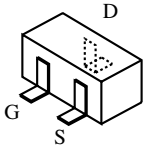
DTC114ES
KTC3199GR
2SA933SRS



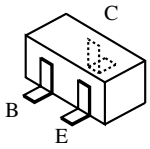
2SK3053

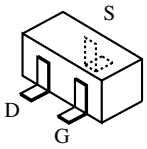


2SB1237Q



2SK2158





2SK360E

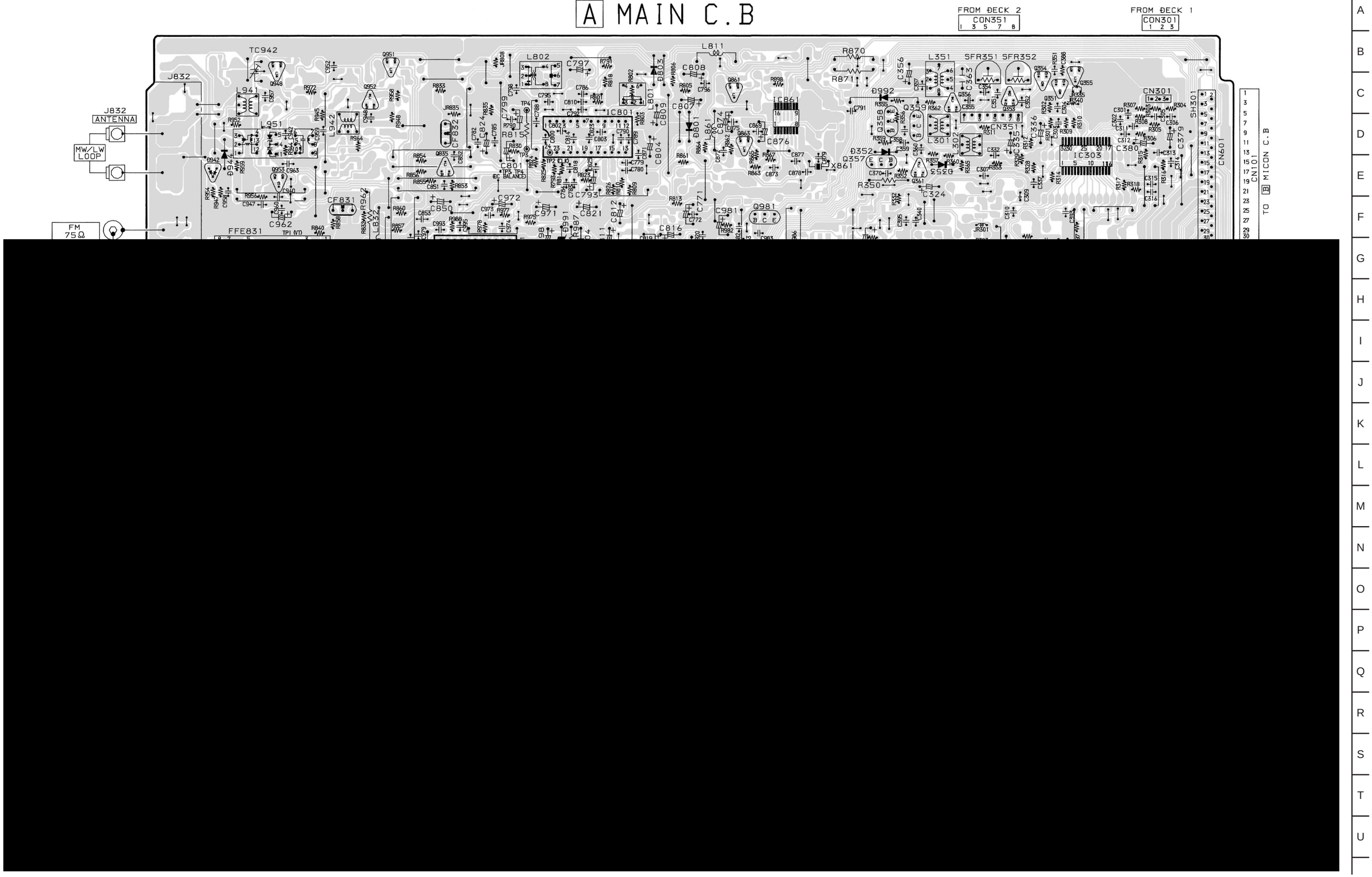
2SA1235F
2SC2714O
2SC3052F
CMBT5551
CMBT5401
RT1P141C

CSD1306E
KRA104S
KRC102S-RTK
KRA107S
KRA102S
2SD1306E

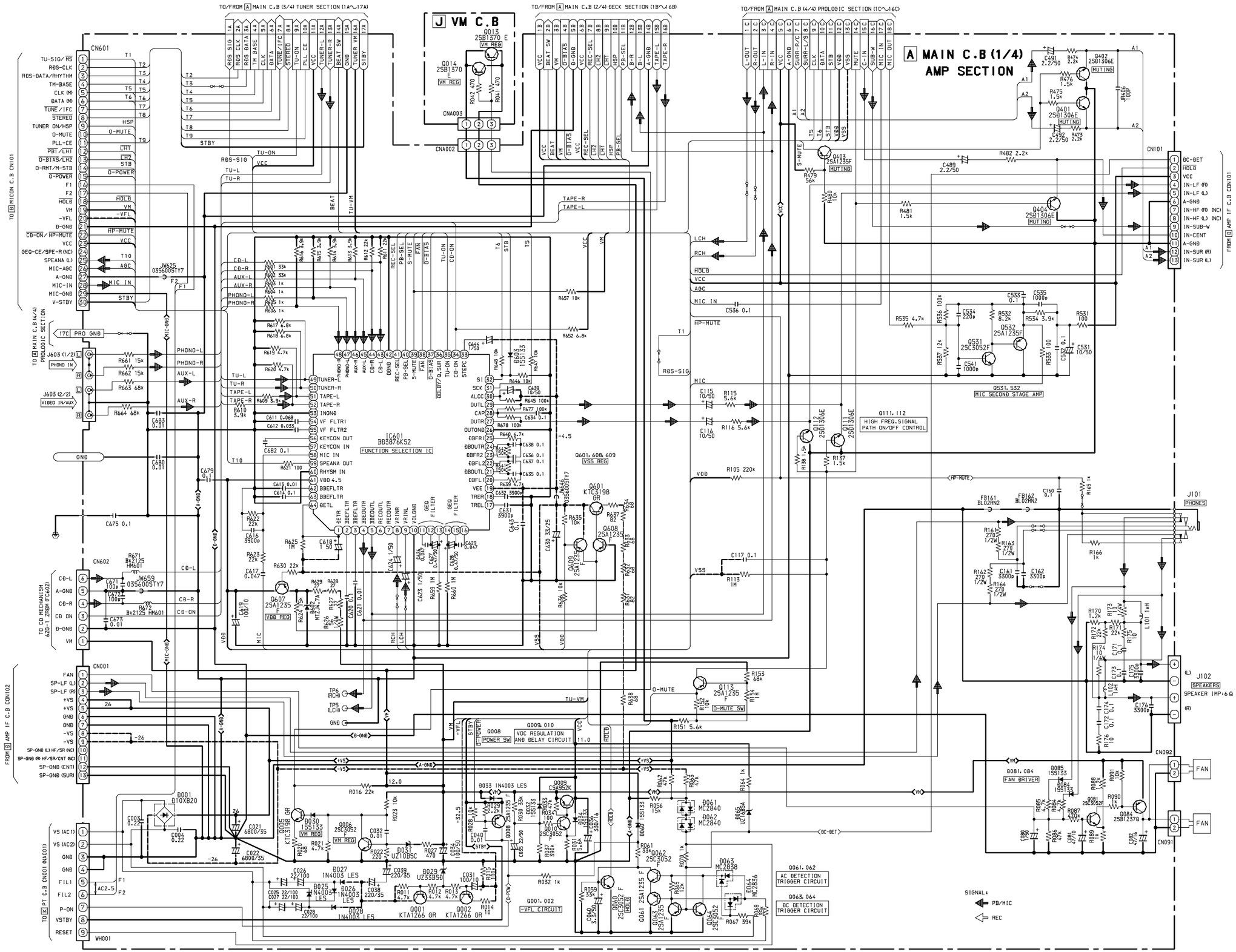
32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

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

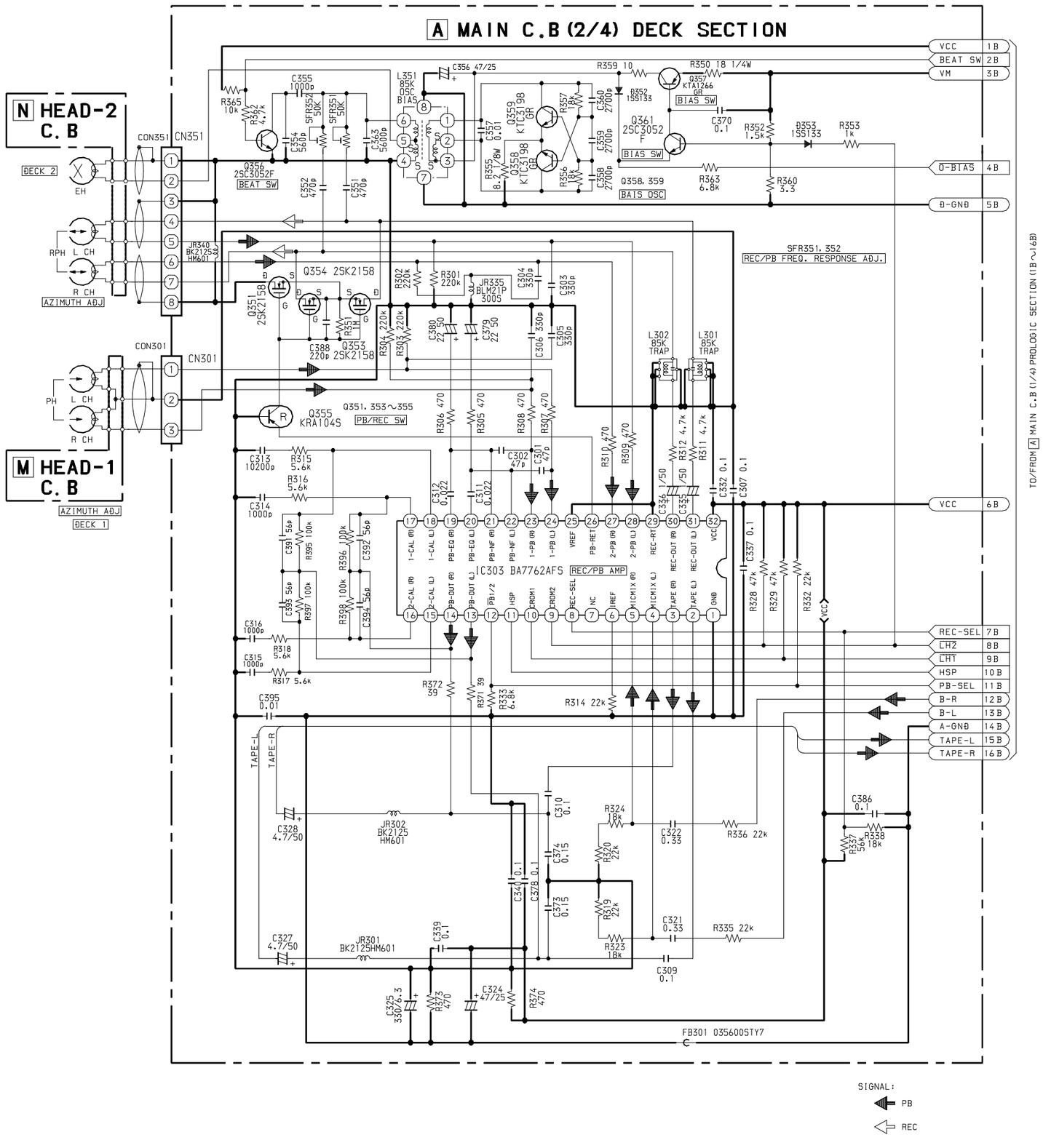
A MAIN C.B



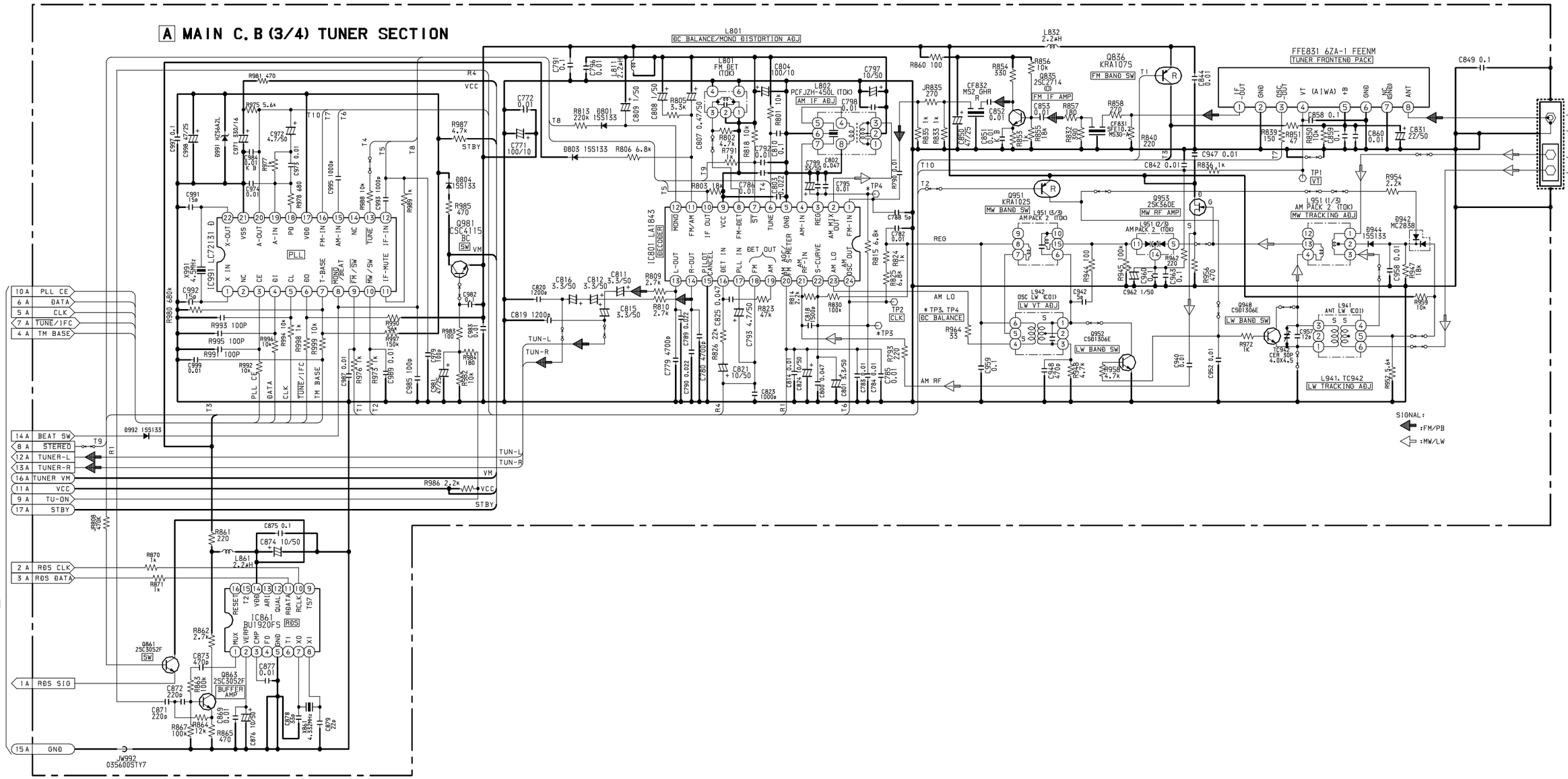
SCHEMATIC DIAGRAM - 1 (MAIN 1/4 : AMP / VM)

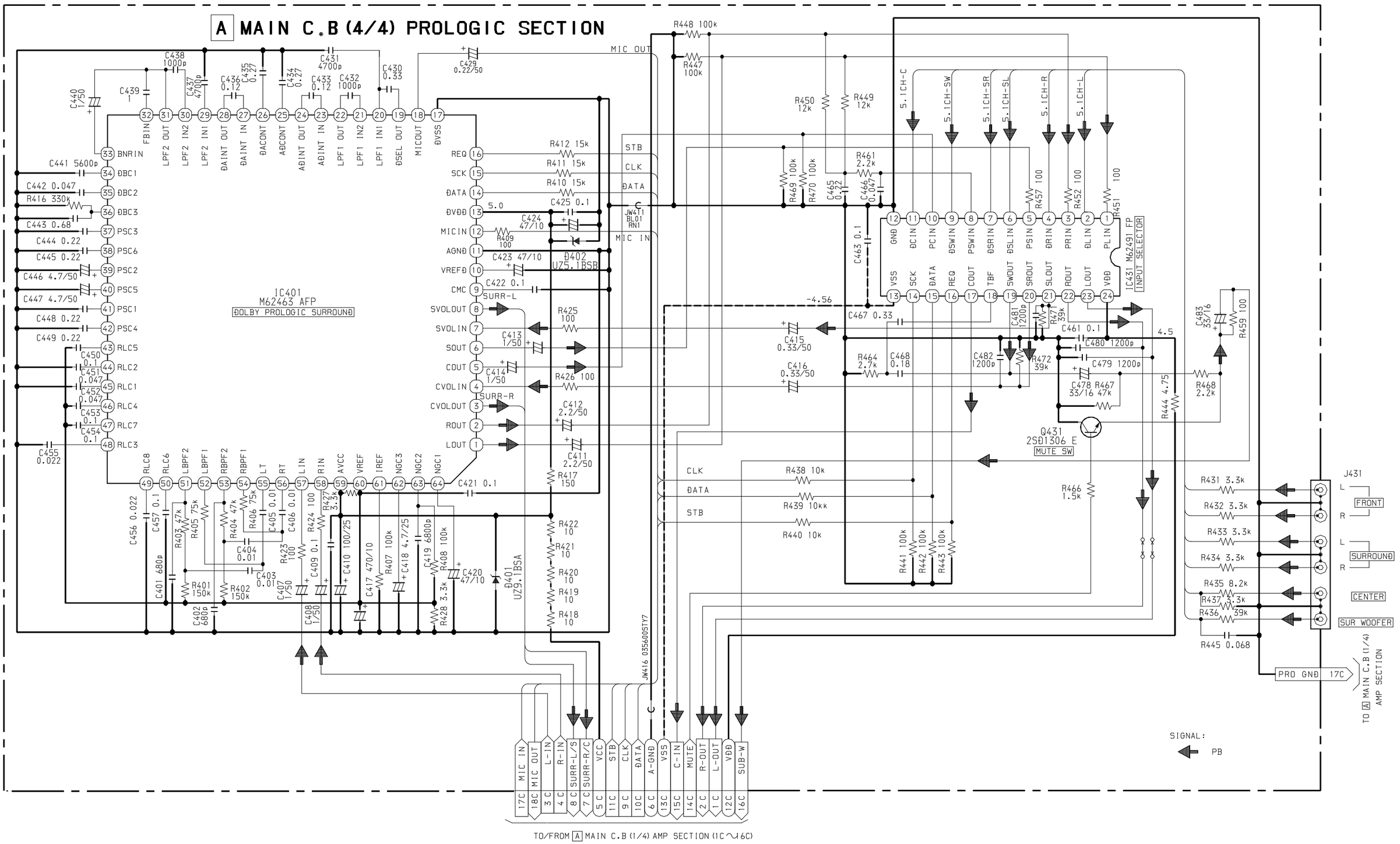


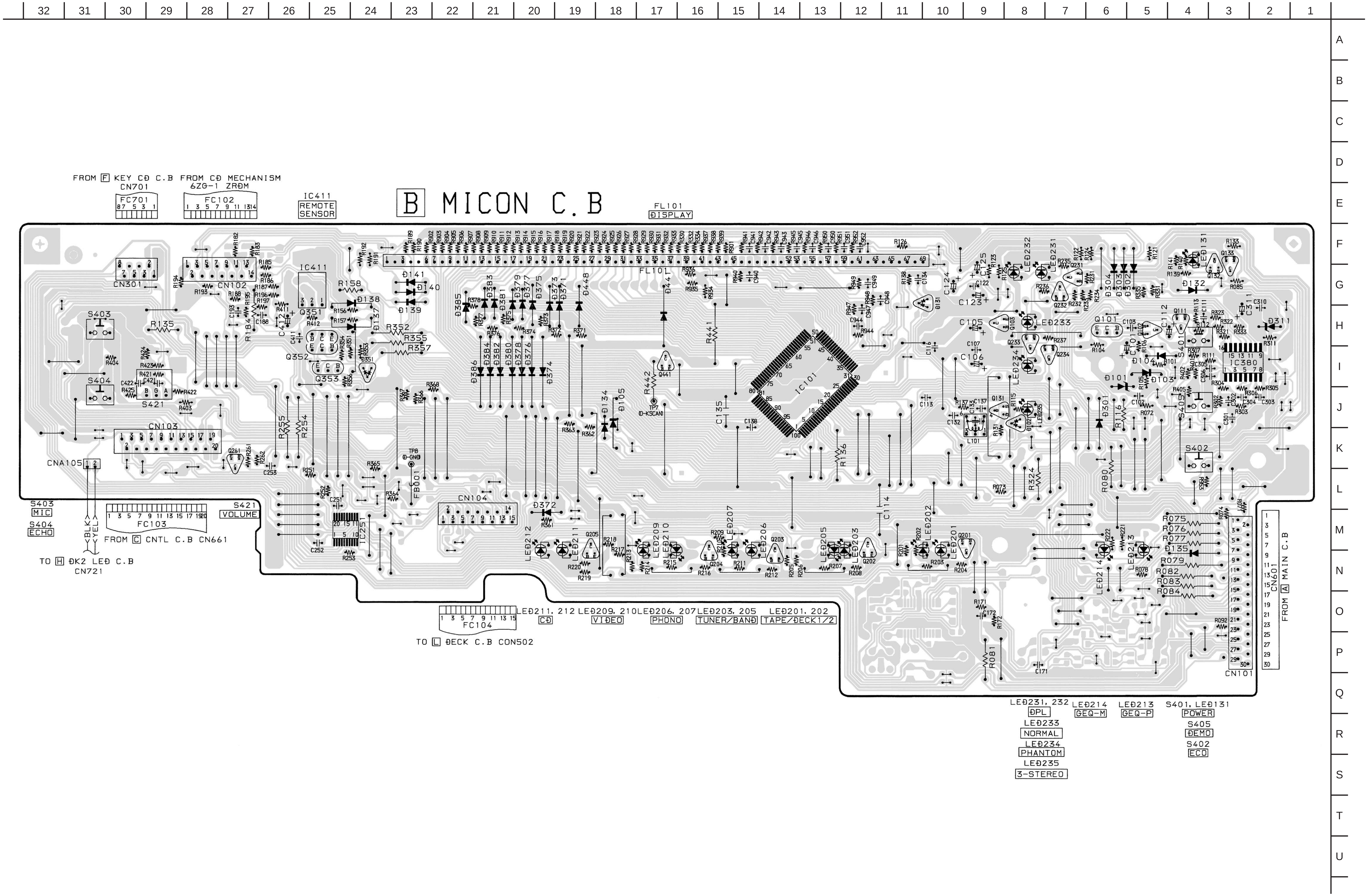
SCHEMATIC DIAGRAM - 2 (MAIN 2/4 : DECK / HEAD-1 / HEAD-2)



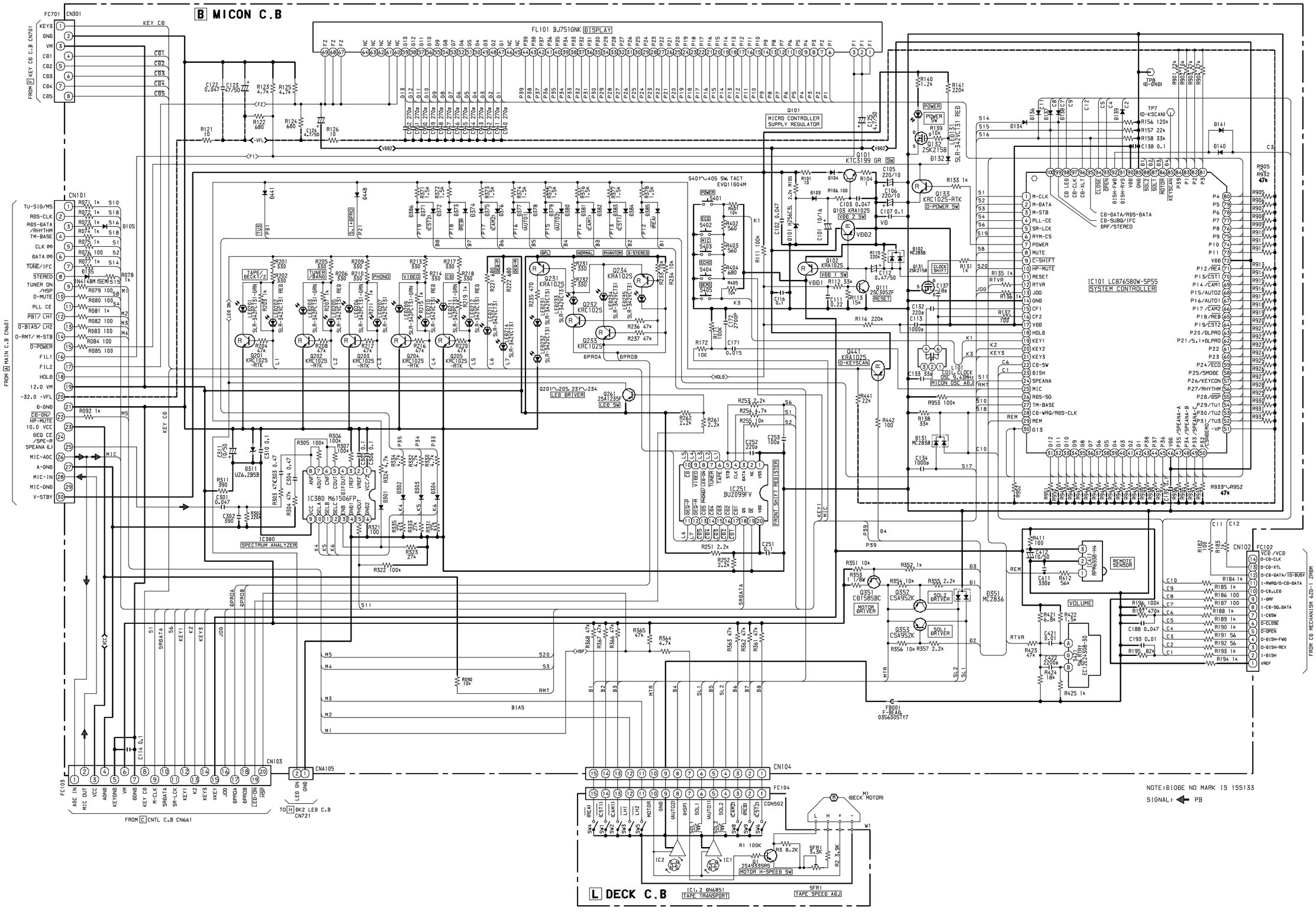
SCHEMATIC DIAGRAM - 3 (MAIN 3/4 : TUNER)



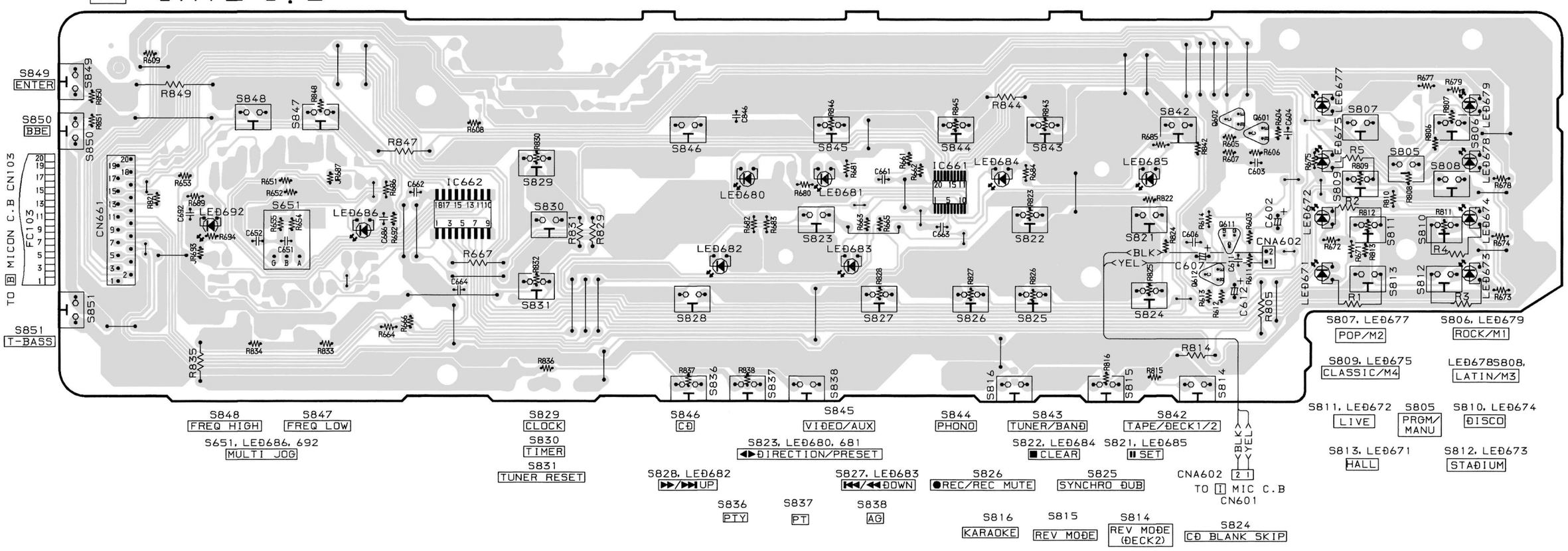

A MAIN C.B (4/4) PROLOGIC SECTION
IC401
M62463 AFP
DOLBY PROLOGIC SURROUND
IC431 M62491 FP
INPUT SELECTOR
D402
UZ5.1BSB
D401
UZ9.1BSA
Q431
2SD1306 E
MUTE SW
MIC OUT
MIC IN
CLK
DATA
STB
SURR-L
SURR-R
5.1CH-C
5.1CH-SW
5.1CH-SR
5.1CH-SL
5.1CH-R
5.1CH-L
FRONT
SURROUND
CENTER
SUR WOOFER
J431
PRO GND 17C
TO A MAIN C.B (1/4) AMP SECTION
TO/FROM A MAIN C.B (1/4) AMP SECTION (1C ~ 16C)
JW416 03560DSTY7
SIGNAL:
PB


B MICON C.B
FROM F KEY CD C.B CN701
FROM CD MECHANISM 6ZG-1 ZRDM
IC411 REMOTE SENSOR
FL101 DISPLAY
S403 MIC
S404 ECHO
S421 VOLUME
FROM C CNTL C.B CN661
TO H DK2 LED C.B CN721
TO L DECK C.B CON502
LED211, 212 CD
LED209, 210 VIDEO
LED206, 207 PHONO
LED203, 205 TUNER/BAND
LED201, 202 TAPE/DECK1/2
FROM A MAIN C.B CN601
LED231, 232 DPL
LED233 NORMAL
LED234 PHANTOM
LED235 3-STEREO
LED214 GEQ-M
LED213 GEQ-P
S401, LED131 POWER
S405 DEMO
S402 ECO

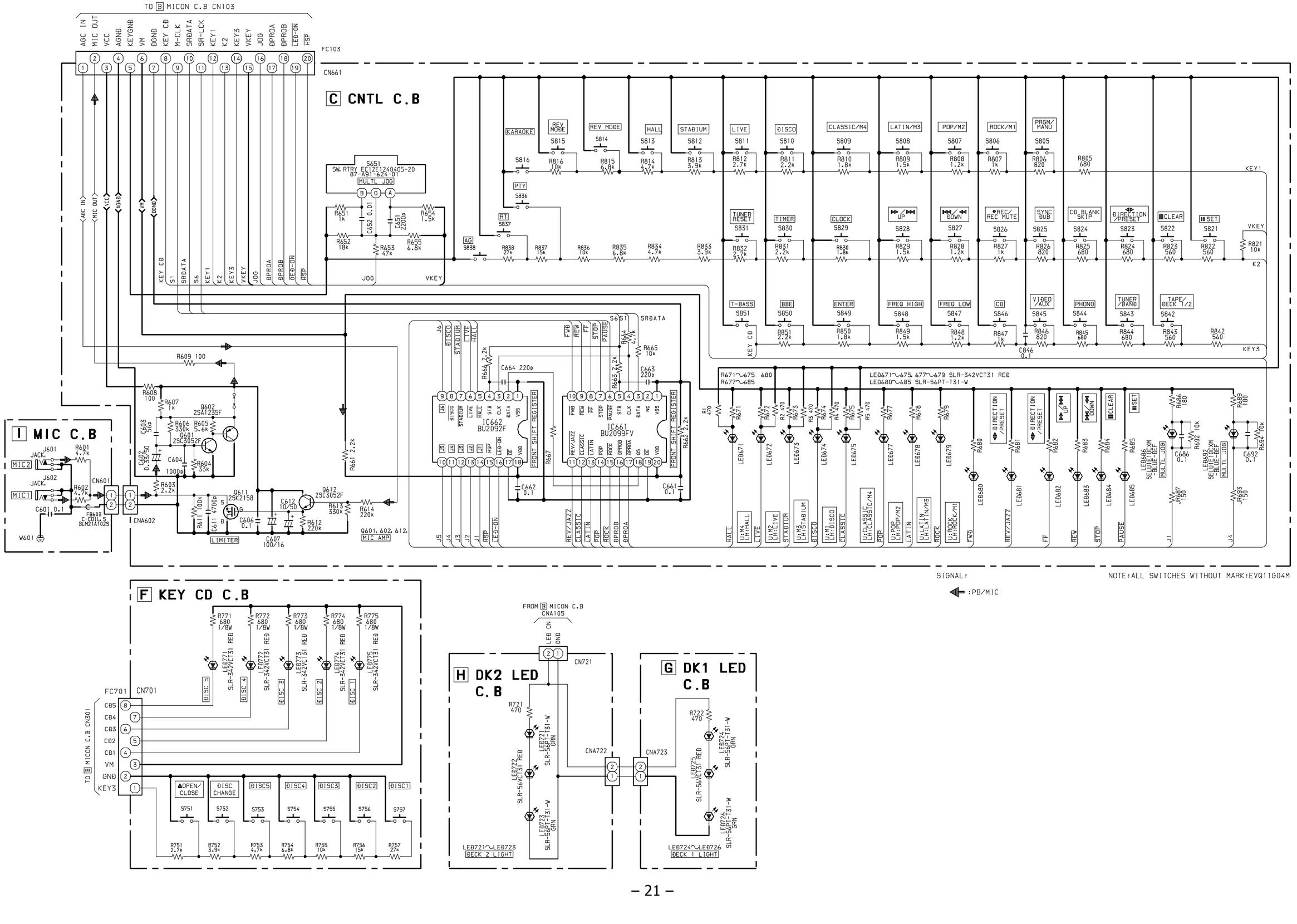
SCHEMATIC DIAGRAM - 5 (MICON / DECK)

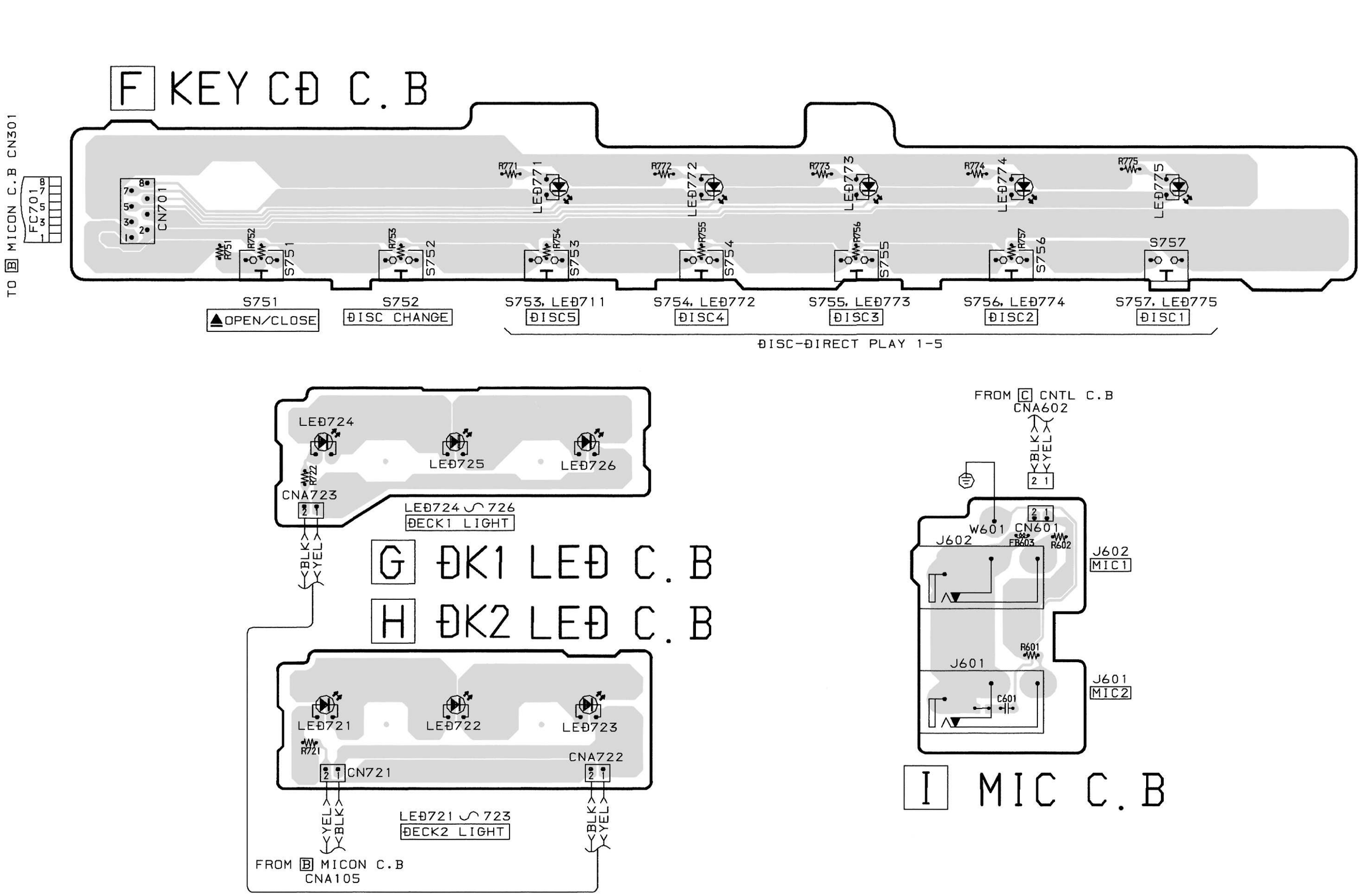


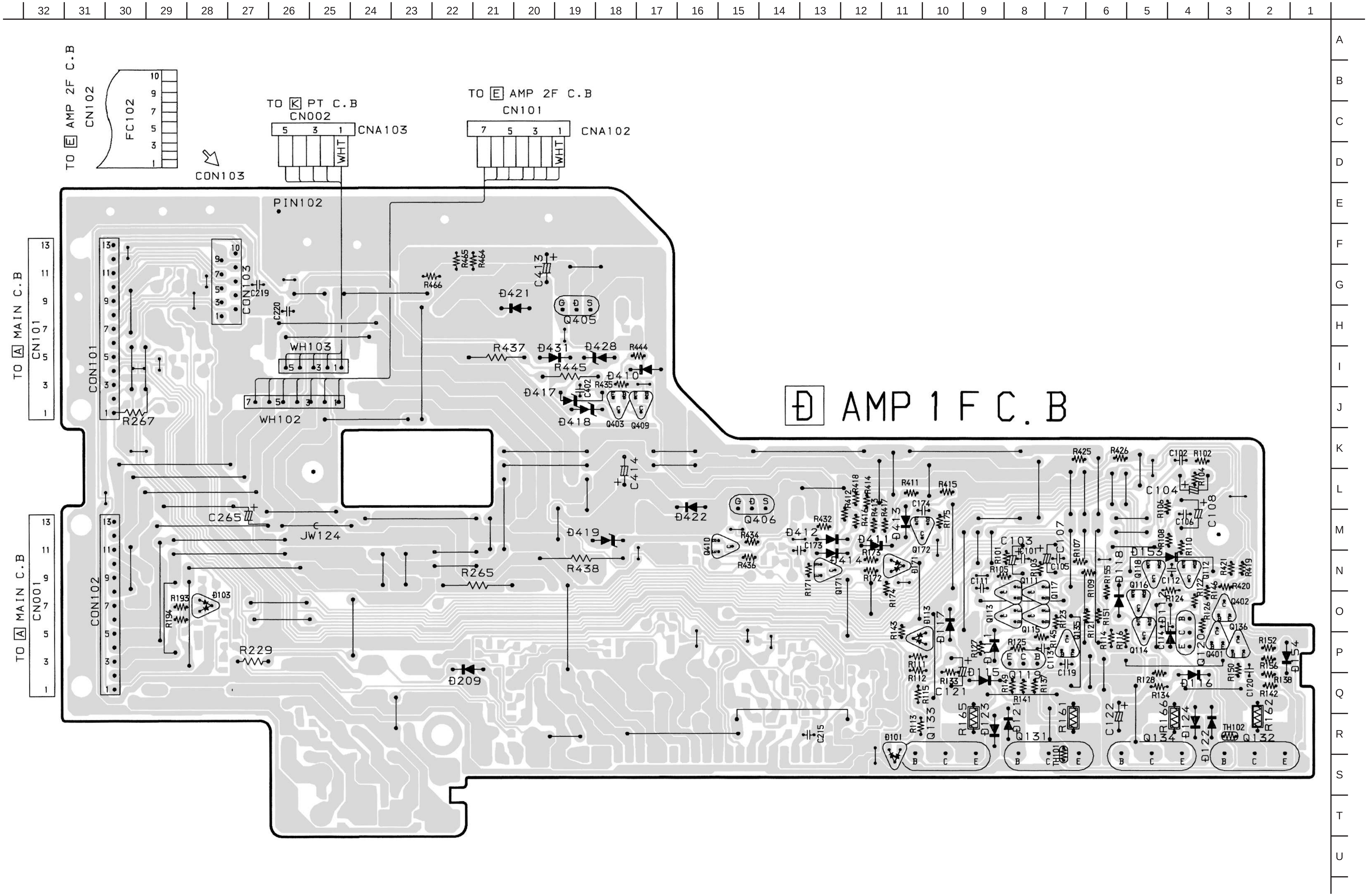
C CNTL C.B


S849 ENTER
S850 BBE
S851 T-BASS
TO B MICON C.B CN103
FC103
CN661
S848 FREQ HIGH
S847 FREQ LOW
S651, LED686, 692 MULTI JOG
S829 CLOCK
S830 TIMER
S831 TUNER RESET
S846 CD
S845 VIDEO/AUX
S823, LED680, 681 DIRECTION/PRESET
S828, LED682 ▶▶/▶▶UP
S827, LED683 ◀◀/◀◀DOWN
S836 PTY
S837 PT
S838 AG
S844 PHONO
S843 TUNER/BAND
S822, LED684 ■CLEAR
S842 TAPE/DECK1/2
S821, LED685 ▮▮SET
S826 ●REC/REC MUTE
S825 SYNCHRO DUB
S816 KARAOKE
S815 REV MODE
S814 REV MODE (DECK2)
CNA602
TO I MIC C.B CN601
S824 CD BLANK SKIP
S807, LED677 POP/M2
S806, LED679 ROCK/M1
S809, LED675 CLASSIC/M4
LED678 S808, LATIN/M3
S811, LED672 LIVE
S805 PRGM/MANU
S810, LED674 DISCO
S813, LED671 HALL
S812, LED673 STADIUM

SCHEMATIC DIAGRAM - 6 (CNTL / KEY CD / DK1 LED / DK2 LED / MIC)

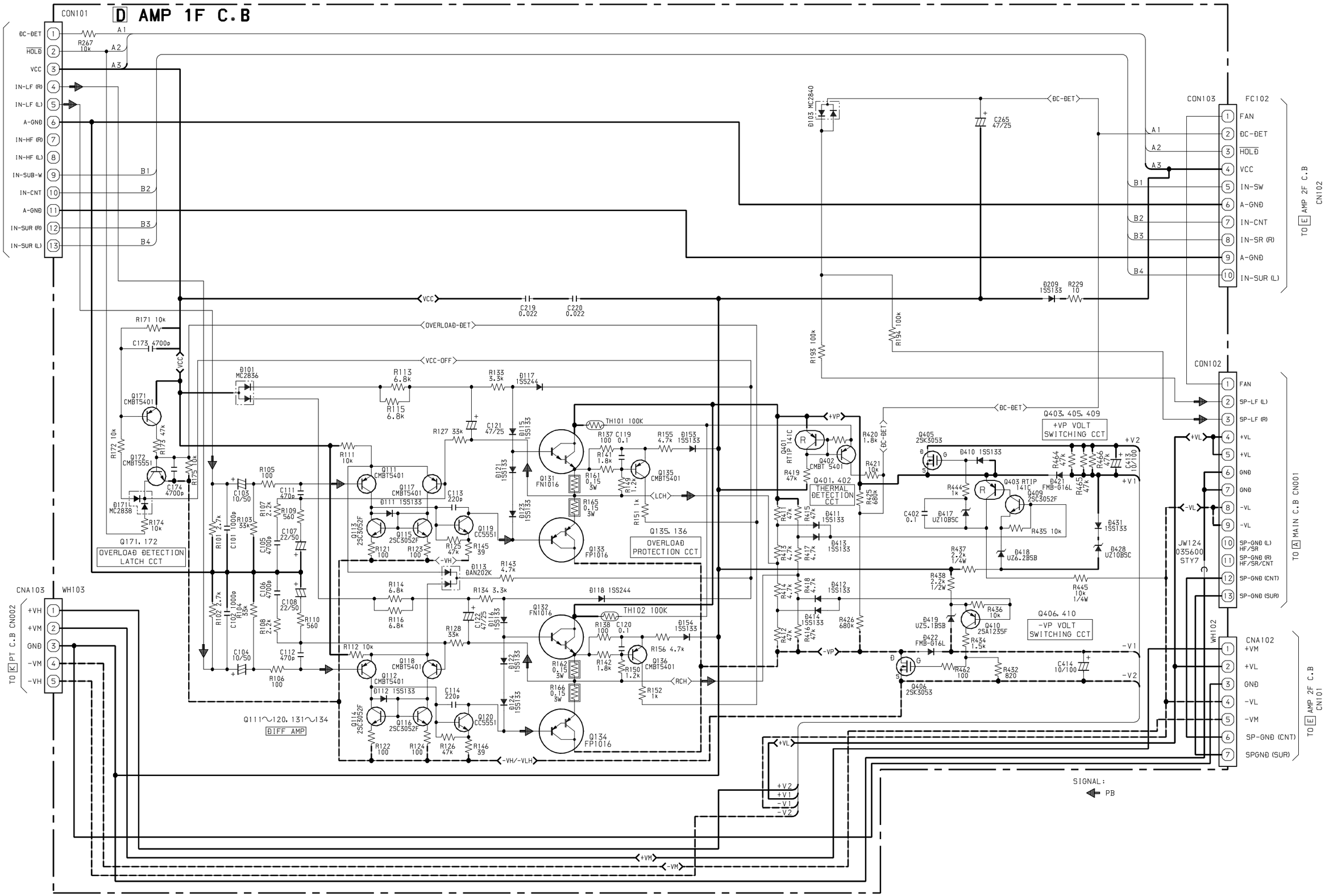



F KEY CD C.B
TO B MICON C.B CN301
FC701
CN701
R771
LED771
R772
LED772
R773
LED773
R774
LED774
R775
LED775
R751
R752
S751
R753
S752
R754
S753
R755
S754
R756
S755
R757
S756
S757
S751
OPEN/CLOSE
S752
DISC CHANGE
S753, LED711
DISC5
S754, LED772
DISC4
S755, LED773
DISC3
S756, LED774
DISC2
S757, LED775
DISC1
DISC-DIRECT PLAY 1-5
LED724
LED725
LED726
R722
CNA723
LED724 ~ 726
DECK1 LIGHT
BLK
YEL
G DK1 LED C.B
H DK2 LED C.B
LED721
LED722
LED723
R721
CN721
CNA722
YEL
BLK
LED721 ~ 723
DECK2 LIGHT
FROM B MICON C.B
CNA105
FROM C CNTL C.B
CNA602
BLK
YEL
W601
CN601
FB603
R602
J602
J602
MIC1
R601
J601
J601
MIC2
C601
I MIC C.B



TO E AMP 2F C.B
CN102
FC102
CON103
TO K PT C.B
CN002
CNA103
WHT
TO E AMP 2F C.B
CN101
CNA102
WHT
PIN102
TO A MAIN C.B
CN101
CON101
R267
WH103
WH102
TO A MAIN C.B
CN001
CON102
C265
JW124
R229
D209
R265
R438
D419
D421
Q405
R437
D431
D428
R444
R445
D410
D417
D418
Q403
Q409
C413
C414
D422
Q406
D AMP 1F C.B
Q131
Q132
Q133

SCHEMATIC DIAGRAM - 7 (AMP 1F)



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

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

J101
SPEAKER IMP: 8Ω–16Ω
SURROUND SPEAKERS
R
L

SUBWOOFER

CENTER SPEAKER
SPEAKER IMP: 8Ω

E AMP 2F C.B

IC101

TO CN101

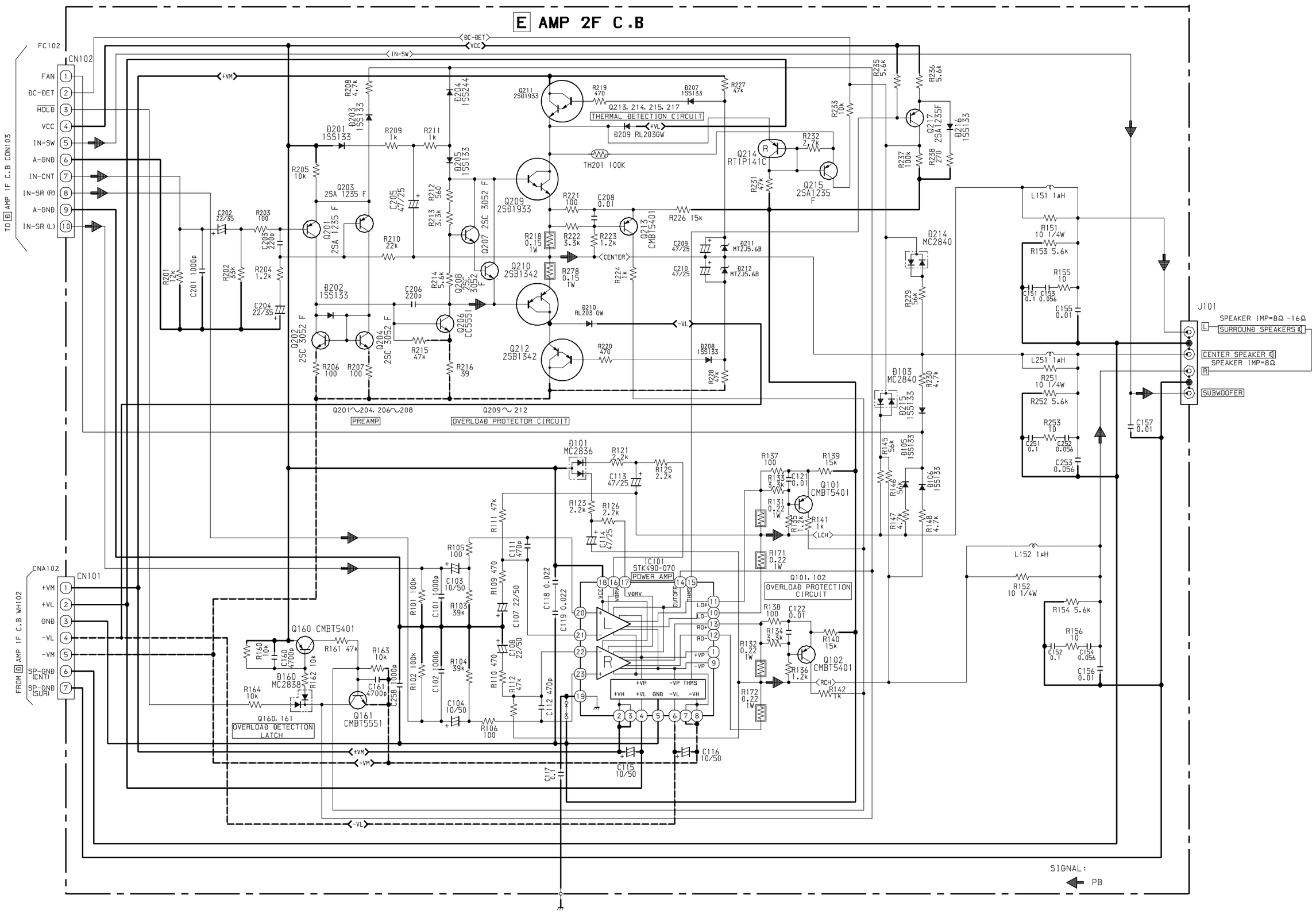
CNA102
WHT
FROM AMP 1F C.B
WH102

CN102

TO CN102

FC102
FROM AMP 1F C.B
CON103

SCHEMATIC DIAGRAM - 8 (AMP 2F)



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

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

K PT C.B

FROM D AMP 1F C.B
WH103
WHT
5 3 1
CNA103

FROM A MAIN C.B
WH001
CNA001
9 7 5 3 1
WHT

CN002
5 3 1
4 2

CN001
9 8 7 5 3 2 1

Đ107

RY102

T102
BLU
BRN
AC 230V
50HZ

T101

F101
FC104
FC101

Đ011 Đ012 Đ013 Đ014 Đ015 Đ017
Đ003 Đ001 Đ002 Đ005 Đ007
Đ004

R004
R003
R109

C112
C107
C003
R005
C108
C004
Đ101
PR106
R001
C110
C002
R006
C109
C001
C111
R112

PT1
19 18 17 16 15 14 13 12 11 10

TF
2 3 4

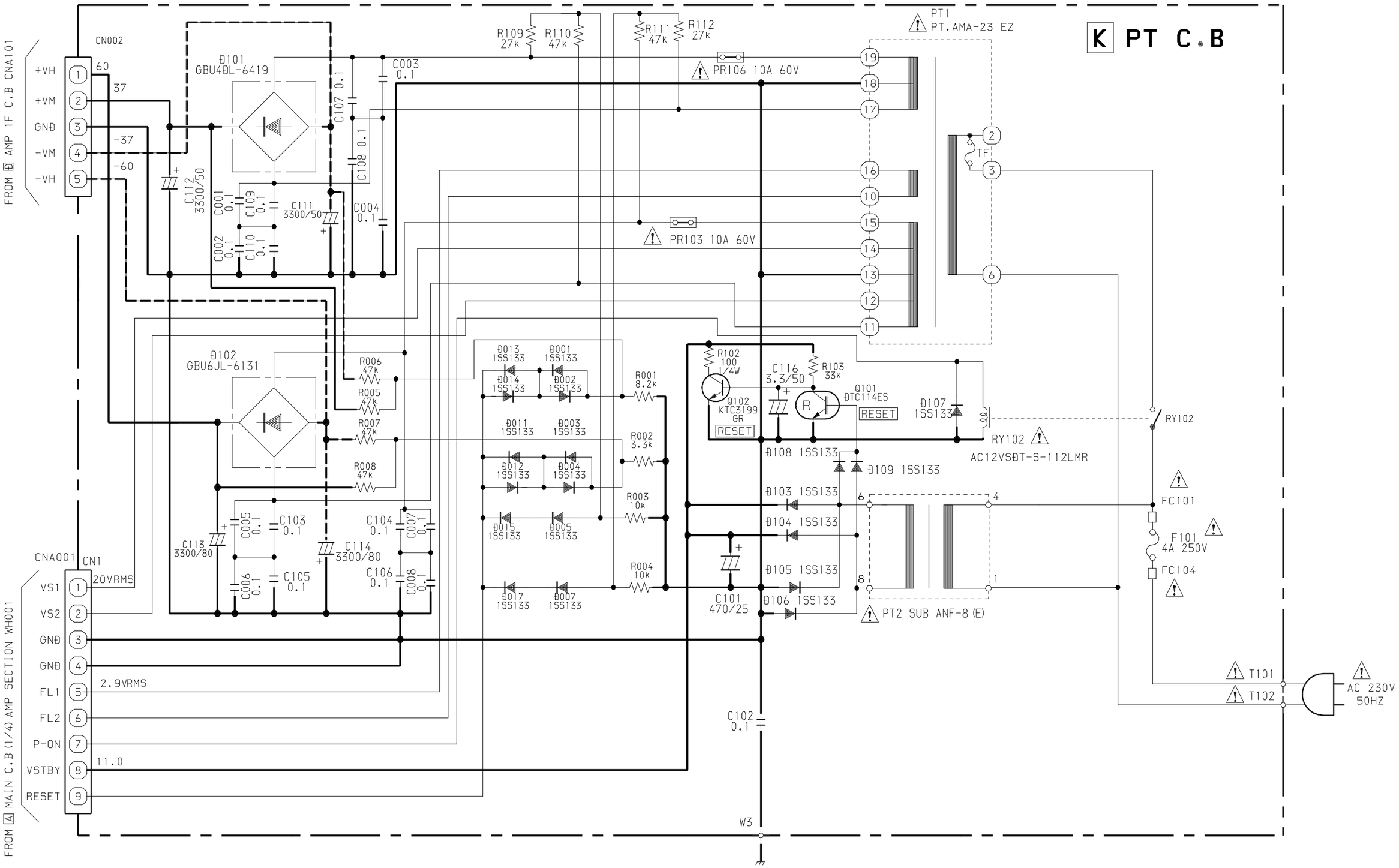
PT2
4 6 8 1

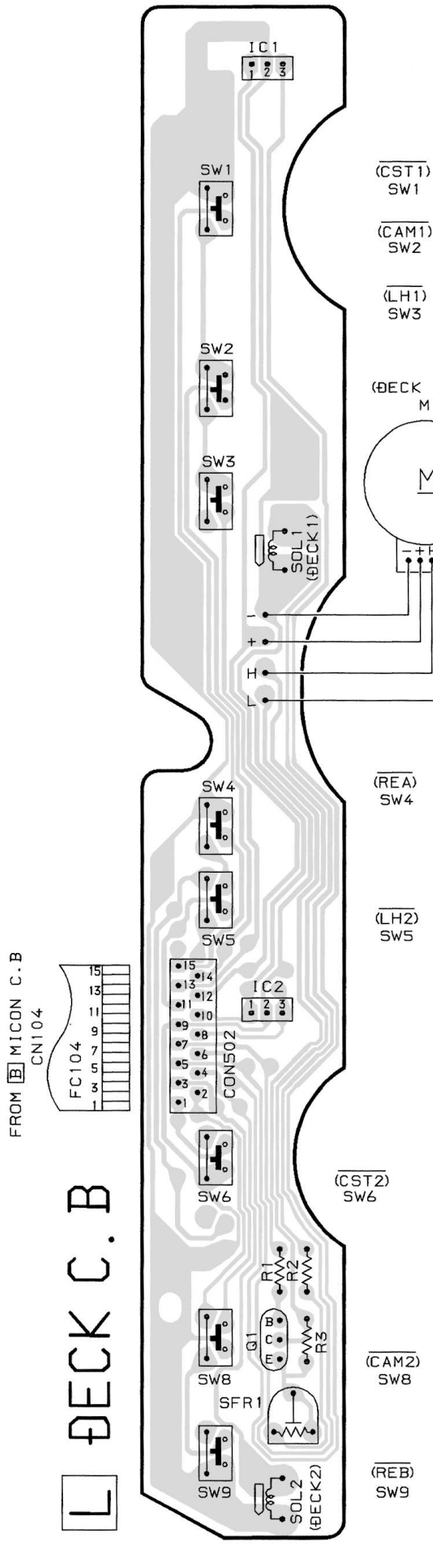
PR103
C113
C104
C007
R008
C106
C008
Đ102
R111
R002
C105
C006
R007
C103
C005
C114
R110

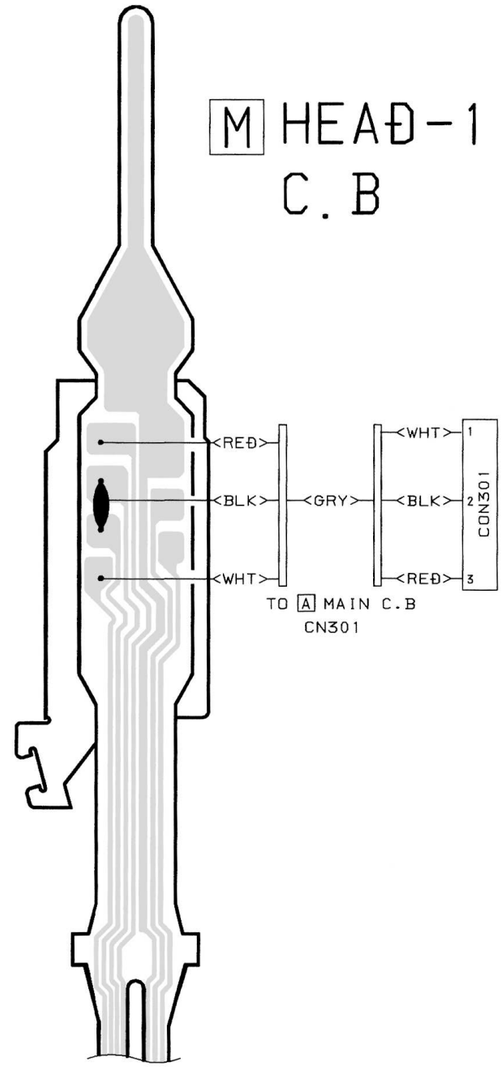
Đ103
Đ105
Đ108
Đ109
Đ106
Đ104

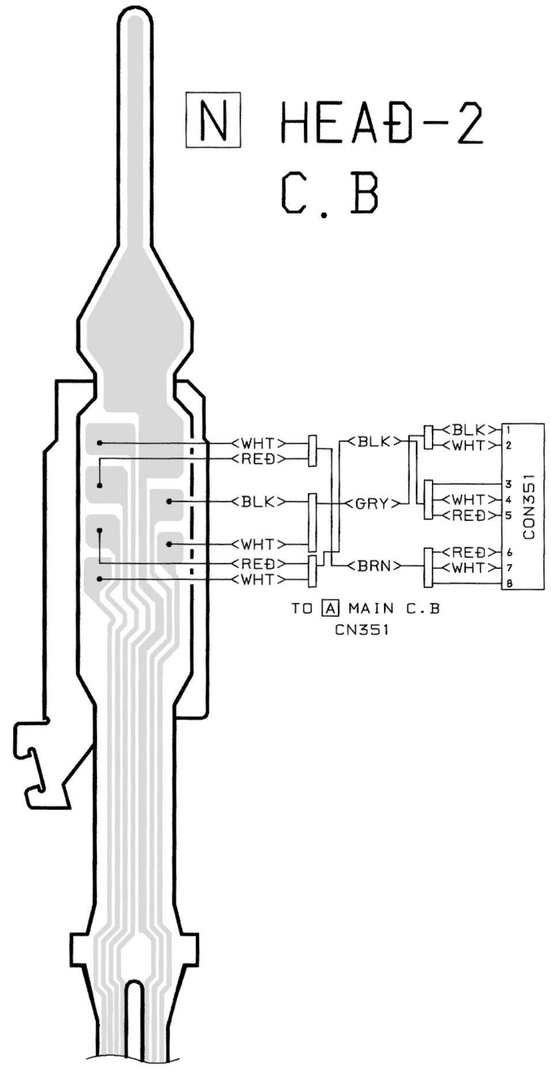
C116
Q101
Q102
B C E
R103
C101
R102
C102
W3

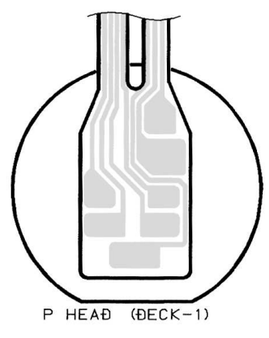
SCHEMATIC DIAGRAM - 9 (PT)

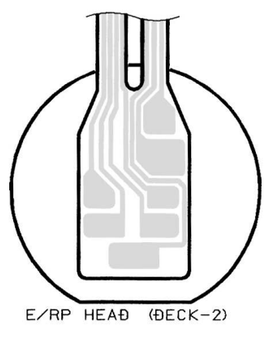



IC1
SW1
(CST1)
SW1
(CAM1)
SW2
(LH1)
SW3
SW2
(DECK MOTOR)
M1
M
SW3
SOL1
(DECK1)
W1
(REA)
SW4
SW4
SW5
(LH2)
SW5
IC2
CON502
FROM B MICON C.B
CN104
FC104
SW6
(CST2)
SW6
R1
R2
Q1
R3
SW8
(CAM2)
SW8
SFR1
SW9
SOL2
(DECK2)
(REB)
SW9
L DECK C.B


M HEAD-1
C.B
RED
BLK
WHT
GRY
CN301
TO A MAIN C.B
CN301

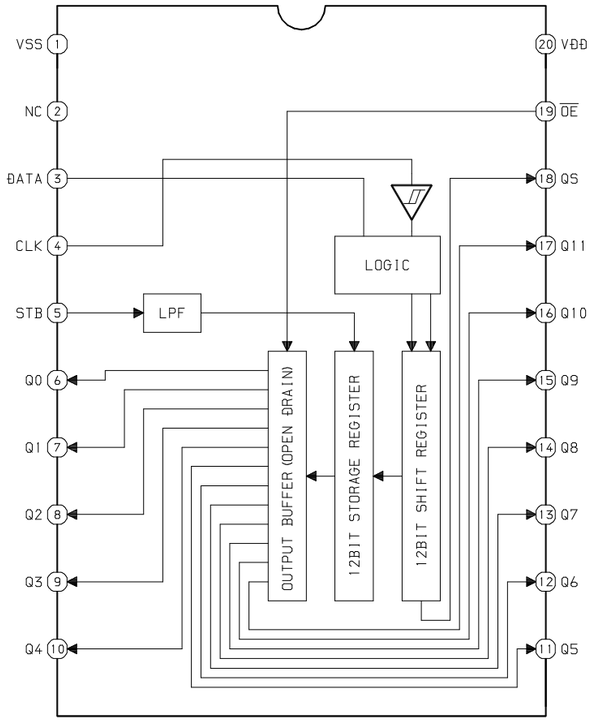

N HEAD-2
C.B
WHT
RED
BLK
GRY
BRN
CON351
TO A MAIN C.B
CN351


P HEAD (DECK-1)

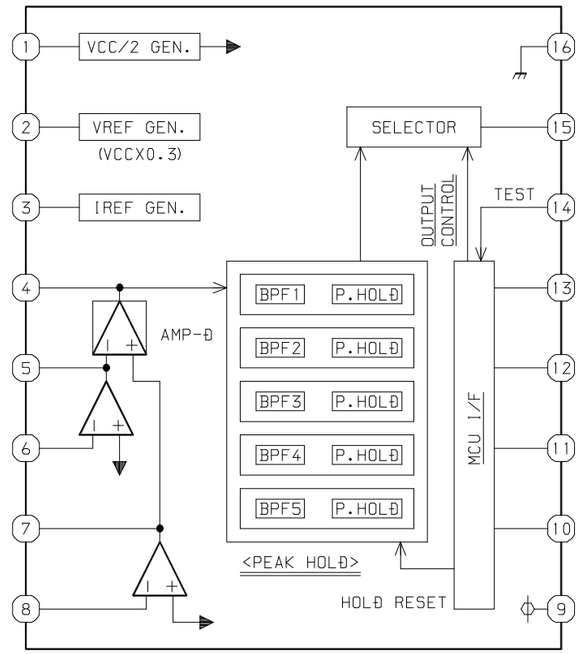

E/RP HEAD (DECK-2)

IC BLOCK DIAGRAM

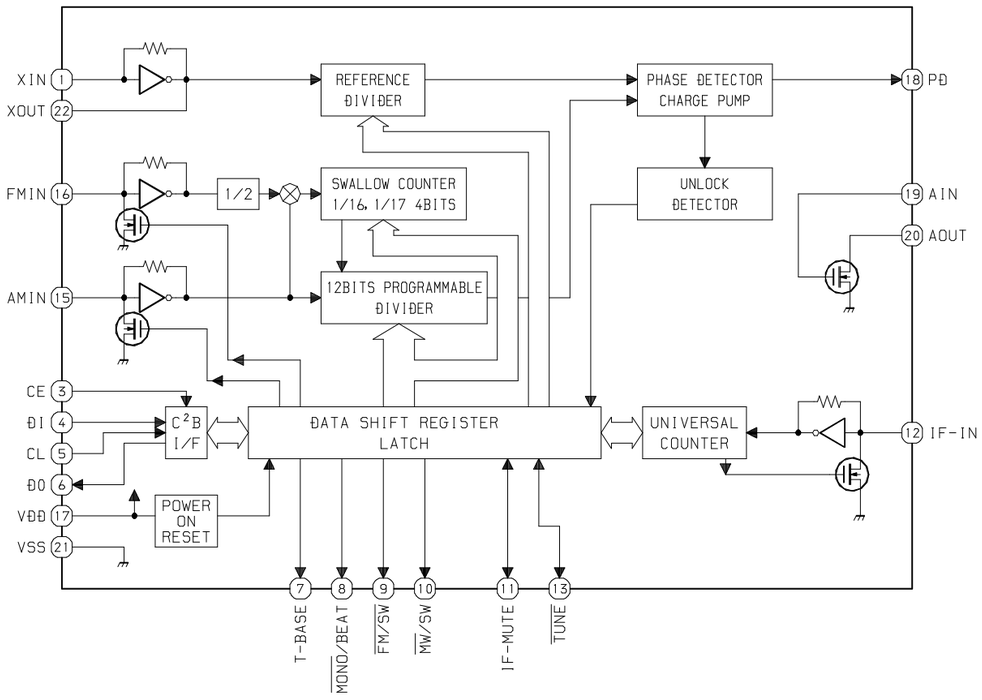
IC, BU2099FV



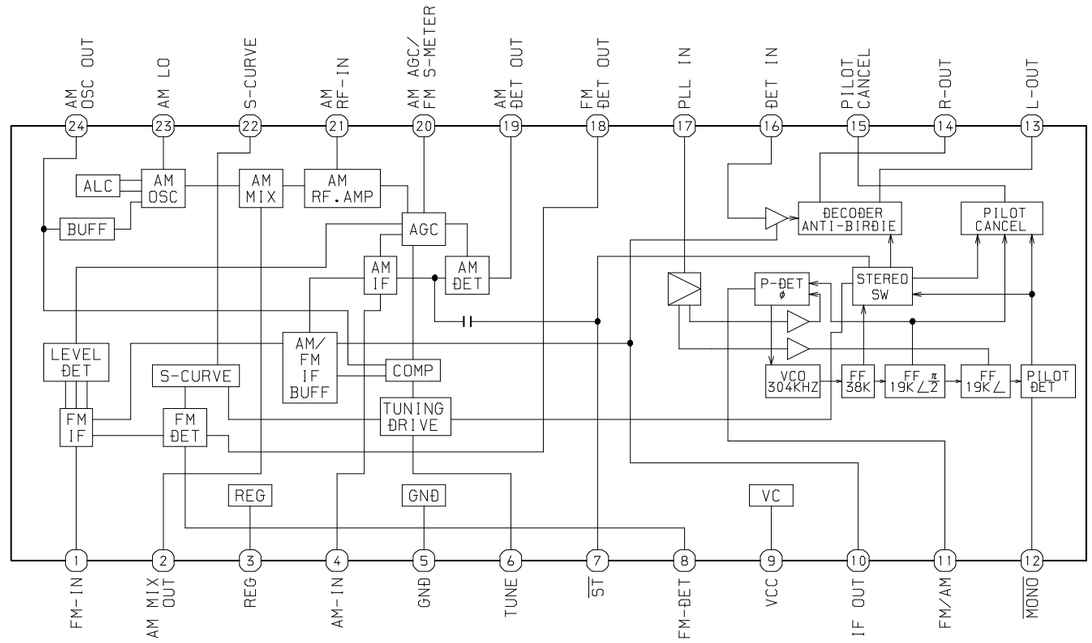
IC, M61506FP



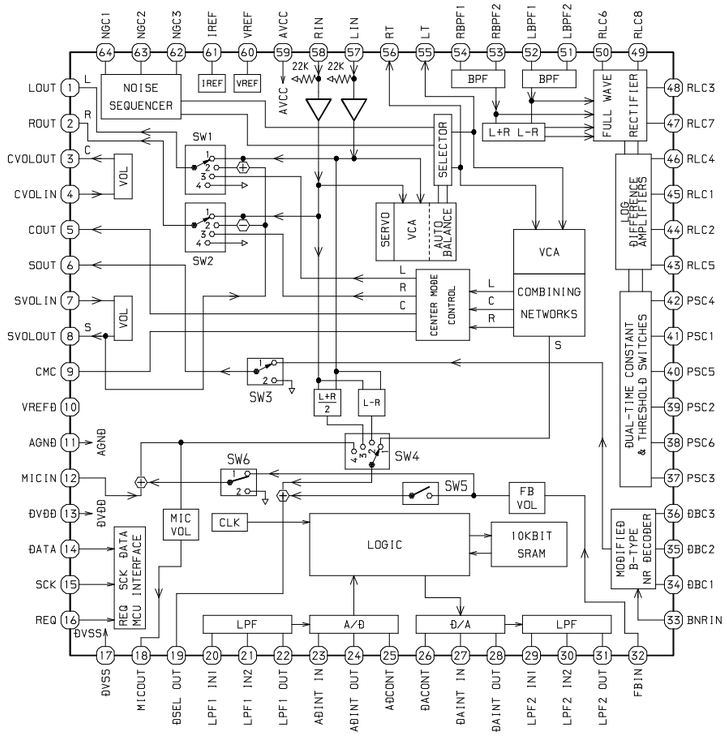
IC, LC72131D



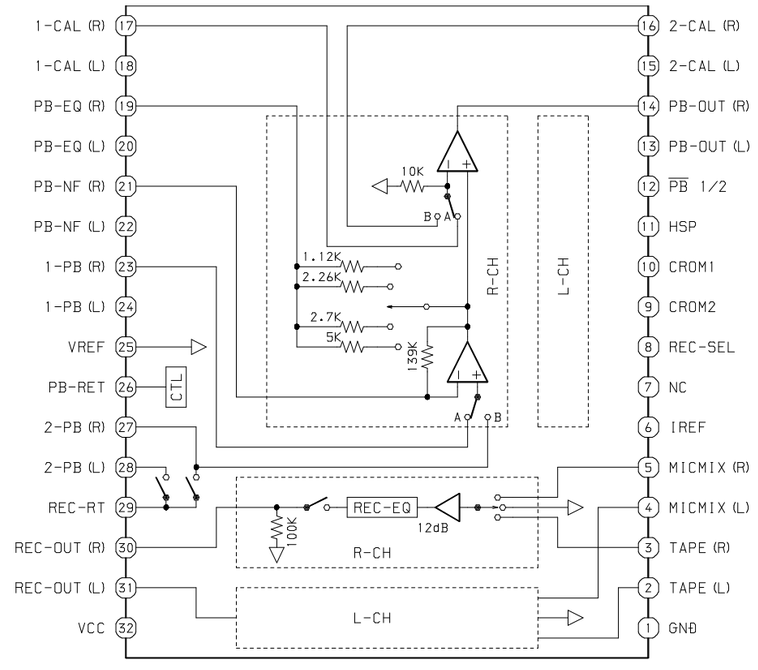
IC, LA1843



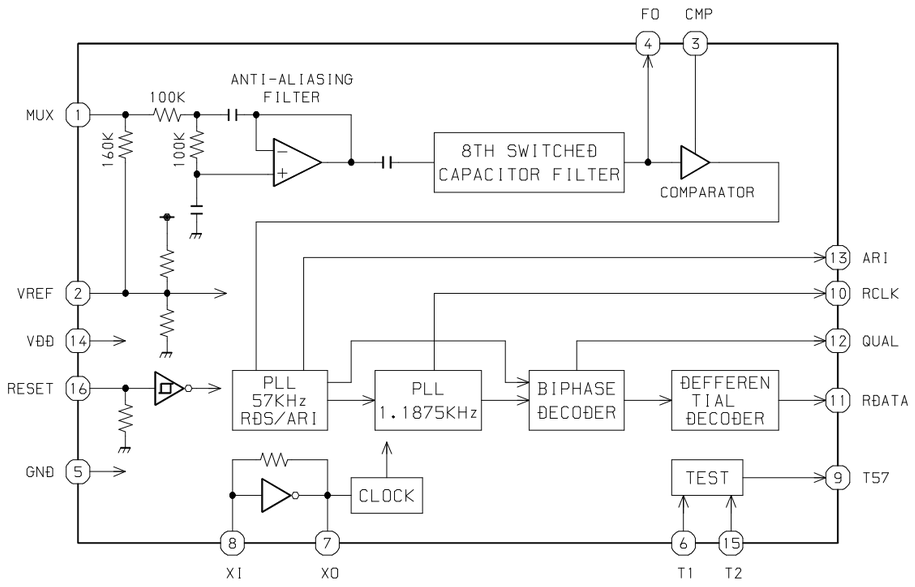
IC, M62463AFP



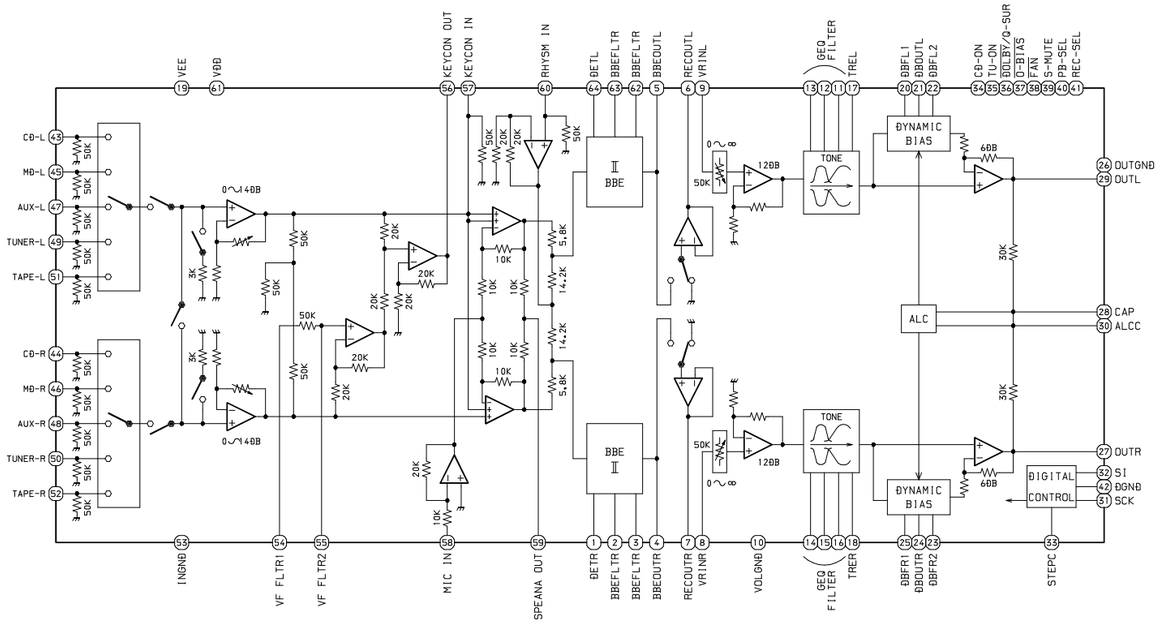
IC, BA7762AFS



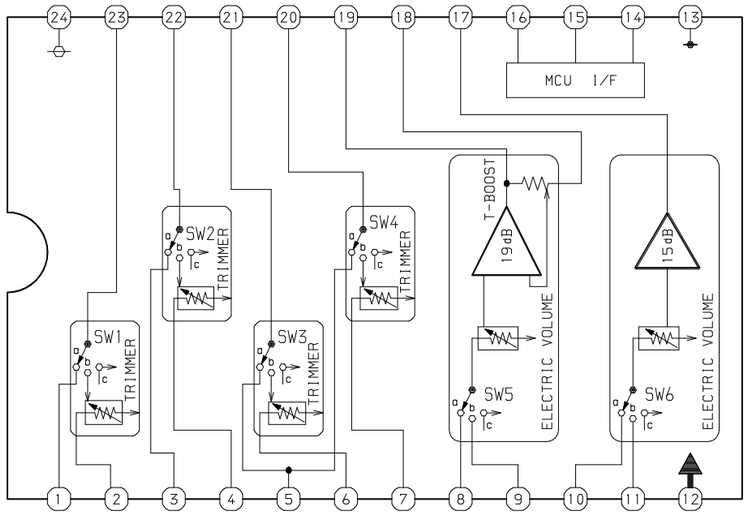
IC, BU1920FS



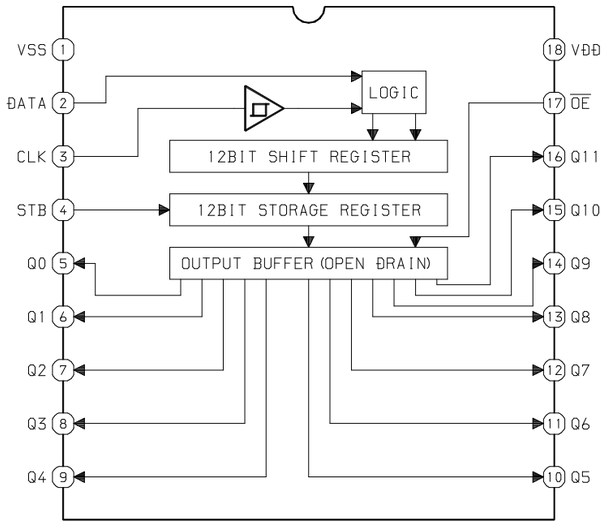
IC, BD3876KS2

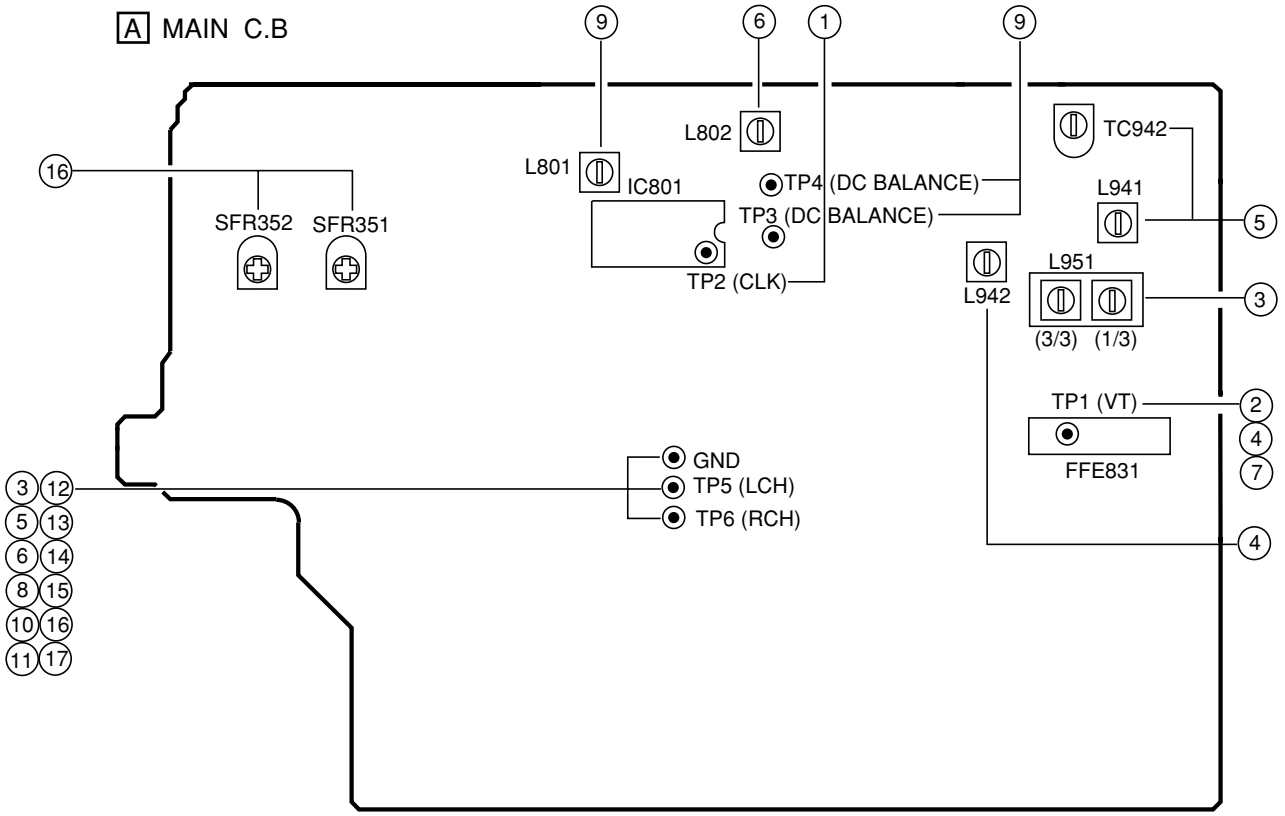


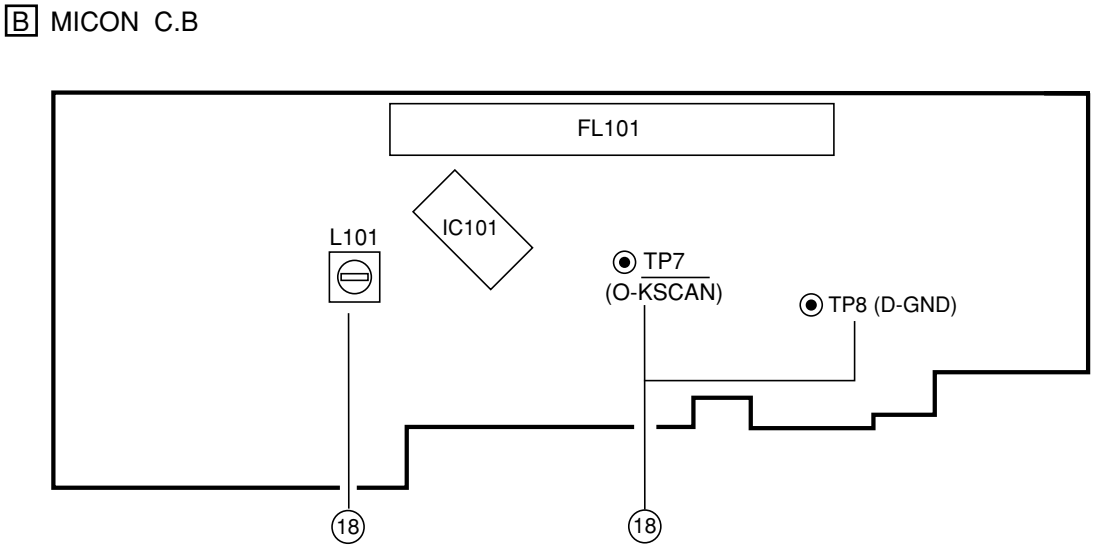
IC, M62491FP

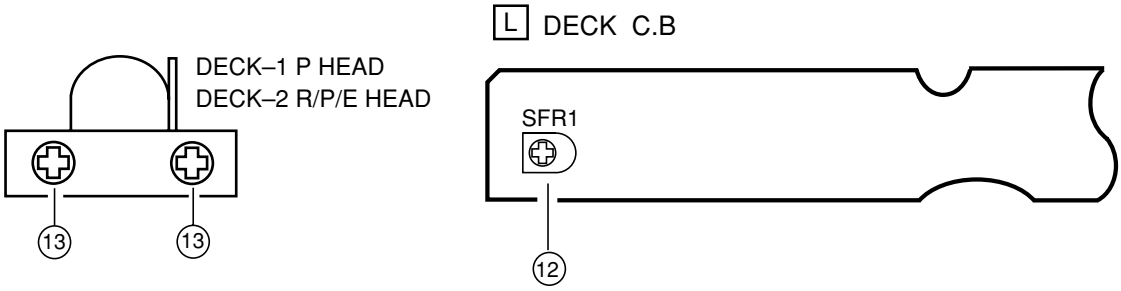


IC, BU2092F




A MAIN C.B
9
6
1
9
L802
TC942
16
L801
IC801
TP4 (DC BALANCE)
L941
5
SFR352
SFR351
TP3 (DC BALANCE)
TP2 (CLK)
L942
L951
3
(3/3)
(1/3)
TP1 (VT)
2
4
7
FFE831
GND
TP5 (LCH)
TP6 (RCH)
3
12
5
13
6
14
8
15
10
16
11
17
4


B MICON C.B
FL101
IC101
L101
TP7
(O-KSCAN)
TP8 (D-GND)
18
18


DECK–1 P HEAD
DECK–2 R/P/E HEAD
13
13
L DECK C.B
SFR1
12

< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP2 (CLK)
   Method : Set to MW 1602kHz and check that the test point is 2052kHz ± 45Hz.

2. MW VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to MW 1602kHz and check that the test point is less than 8.0V. Then set to MW 531kHz and check that the test point is more than 0.6V.

3. MW Tracking Adjustment
   Settings : • Test point : TP5 (Lch), TP6 (Rch)
   • Adjustment location : L951 (1/3)
   Method : Set to MW 999kHz and adjust L951 (1/3) so that the test point becomes maximum.

4. LW VT Adjustment
   Settings : • Test point : TP1 (VT)
   • Adjustment location : L942
   Method : Set to LW 144kHz and adjust L942 so that the test point becomes 1.5V ± 0.05V.
   Then set to LW 290kHz and check that the test point is less than 8.0V.

5. LW Tracking Adjustment
   Settings : • Test point : TP5 (Lch), TP6 (Rch)
   • Adjustment location :
   L941 ..... 144kHz
   TC942 ..... 290kHz
   Method : Set up TC942 to center before adjustment. The level at 144kHz is adjusted to MAX by L941. Then the level at 290kHz is adjusted to MAX by TC942.

6. AM IF Adjustment
   Settings : • Test point : TP5 (Lch), TP6 (Rch)
   • Adjustment location :
   L802 ..... 450kHz

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

8. FM Tracking Check
   Settings : • Test point : TP5 (Lch), TP6 (Rch)
   Method : Set to FM 98.0MHz and check that the test point is less than 13dBµV.

9. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3, TP4 (DC balance)
   • Adjustment location : L801
   • Input level : 60dBµV
   Method : Set to FM 98.0MHz and adjust L801 so that the distortion is less than 1.2%. Then check the voltage between TP3 and TP4 is 0V ± 0.04V.

10. Output Level Check
    <MW>
    Settings : • Test point : TP5 (Lch), TP6 (Rch)
    • Input level : 74dBµV
    Method : Set to MW 999kHz and check that the test point is 80mV ± 3dB.

    <FM>
    Settings : • Test point : TP5 (Lch), TP6 (Rch)
    • Input level : 60dBµV
    Method : Set to FM 98.0MHz and check that the test point is 315mV ± 3dB.

11. FM Separation Check
    Settings : • Test point : TP5 (Lch), TP6 (Rch)
    • Input level : 60dBµV
    Method : Set to FM 98.0MHz and check that the test point is more than 12dB.

< DECK SECTION >

12. Tape Speed Adjustment (DECK 2)
    Settings : • Test tape : TTA–100
    • Test point : TP5(Lch), TP6(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.

13. Head Azimuth Adjustment (DECK 1, DECK 2)
    Settings : • Test tape : TTA–330
    • Test point : TP5(Lch), TP6(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.

14. PB Frequency Response Check (DECK 1, DECK 2)
    Settings : • Test tape : TTA–330
    • Test point :TP5(Lch), TP6(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.

15. PB Sensitivity Check (DECK 1, DECK 2)
    Settings : • Test tape : TTA–200
    • Test point : TP5(Lch), TP6(Rch)
    Method : Play back the test tape and check that the output level of the test point is 230mV ± 3dB.

16. REC/PB Frequency Response Adjustment (DECK 2)
    Settings : • Test tape : TTA–602
    • Test point : TP5(Lch), TP6(Rch)
    • Input signal : 1kHz / 8kHz (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 TP5, TP6 becomes -20VU (16mV). Record and play back the 1kHz and 8kHz signals and adjust SFRs so that the output of the 8kHz signals becomes 0dB ± 0.5dB with respect to that of the 1kHz signal.

17. REC/PB Sensitivity Check (DECK 2)
    Settings : • Test tape : TTA–602
    • Test point : TP5(Lch), TP6(Rch)
    • Input signal : 1kHz (LINE IN)
    Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP5, TP6 becomes 0VU (160mV). Record and play back the 1kHz signals and check that the output is 0dB ± 3.5dB.

< MICON SECTION >

18. µ-CON OSC Adjustment
    Settings : • Test point : TP7 (O-KSCAN)
    • Adjustment location : L101
    Method : Insert AC plug while pressing TUNER function key. Adjust L101 so that the frequency at the test point is 208.80Hz ± 0.21Hz.

IC DESCRIPTION

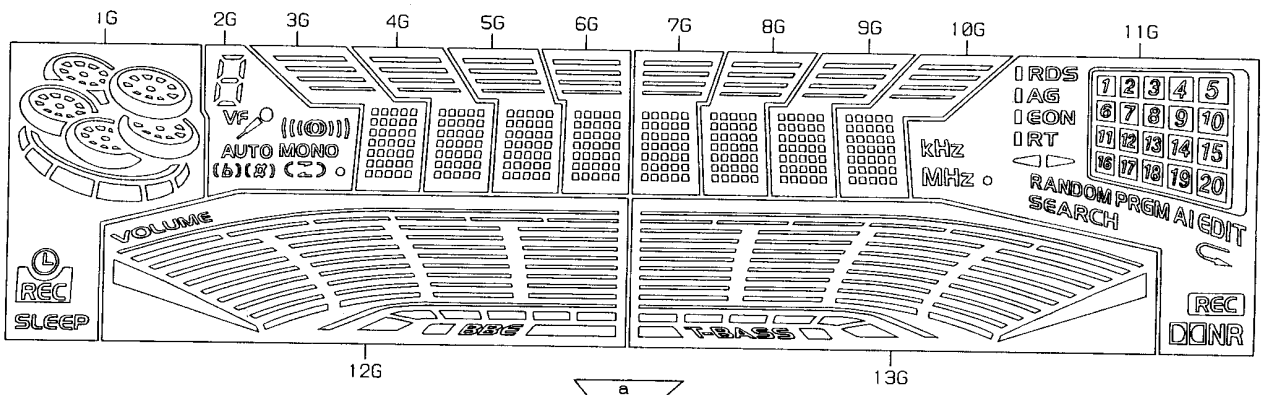
IC, LC876580W-5P55

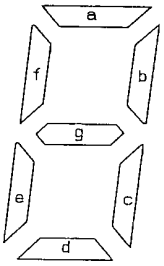
Pin No.	Pin Name	I/O	Description
1	M-CLK	O	Common serial clock.
2	M-DATA	O	Common serial data.
3	M-STB	O	Common serial strobe.
4	PLL-CE	O	Tuner PLL IC chip enable.
5	SR-LCK	O	Shift register IC LATCH clock.
6	RYM-CS	O	RHYTHM IC chip select.
7	POWER	O	Audio power ON/OFF.
8	MUTE	O	System MUTE ON/OFF.
9	$\overline{\text{C-SHIFT}}$	O	CLOCK SHIFT output. "L" : SHIFT
10	$\overline{\text{HP-MUTE}}$	I	Head phone jack detection. "L" : MUTE
11	RESET	I	System RESET input.
12	RTVR	I	Volume rotary encoder.
13	JOG	I	Dial JOG rotary encoder.
14	GND	–	Connected to GND.
15	CF1	I	Oscillator circuit input.
16	CF2	O	Oscillator circuit output.
17	VDD	–	Power supply.
18	HOLD	I	System HOLD input.
19	KEY1	I	Tact key matrix 1 input.
20	KEY2	I	Tact key matrix 2 input.
21	KEY3	I	Tact key matrix 3 input.
22	CD-SW	I	CD MECHA SW matrix input.
23	DISH	I	CD turntable photo sensor.
24	SPEANA	I	Spectrum analyser level detection.
25	MIC	I	MIC input level detection.
26	RDS-SG	I	RDS signal level input.
27	TM-BASE	I	Time base clock input.
28	CD-WRQ/ RDS-CLK	I	CD Read Write Request / Tuner RDS clock input.
29	REM	I	Remote control signal input.
30 ~ 42	G13 ~ G1	O	FL grid G13 ~ G1 output.
43 ~ 45	P38 ~ P36	O	FL segment P38 ~ P36 output.
46	VDD	–	Power supply.
47	P35/SPEANA–A	O	FL segment P35 output / Spectrum analyser BPF switching control A output.
48	P34/SPEANA–B	O	FL segment P34 output / Spectrum analyser BPF switching control B output.
49	P33/SPEANA–C	O	FL segment P33 output / Spectrum analyser BPF switching control C output.
50	P32/CSNDEMO	O/I	FL segment P32 output / Initial DEMO MODE detect. "H" : CASINO DEMO (Not used).
51	–VP	–	Power supply for FL.
52	P31/TU3	O/I	FL segment P31 output / TUNER series, TU3 select.
53	P30/TU2	O/I	FL segment P30 output / TUNER series, TU2 select.
54	P29/TU1	O/I	FL segment P29 output / TUNER series, TU1 select.
55	P28/$\overline{\text{DSP}}$	O/I	FL segment P28 output / DSP function detection. "L" : ON (Not used).

Pin No.	Pin Name	I/O	Description
56	P27/RHYTHM	O/I	FL segment P27 output / RHYTHM function detection. "H" : ON (Not used)
57	P26/KEYCON	O/I	FL segment P26 output / KEYCON function detection. "H" : ON
58	P25/5MODE	O/I	FL segment P25 output / GEQ 5MODE select. "H" : 5 MODE (Not used)
59	P24/$\overline{\text{ECO}}$	O/I	FL segment P24 output / ECO mode detection. "H" : ECO OFF (Not used)
60	P23	O/I	FL segment P23 output.
61	P22	O/I	FL segment P22 output.
62	P21/5.1+DLPRO	O/I	FL segment P21 output / 5.1CH+PROLOGIC detection. "H" : ON
63	P20/DLPRO	O/I	FL segment P20 output / DOLBY PROLOGIC detection. "H" : ON (Not used)
64	P19/$\overline{\text{CST2}}$	O/I	FL segment P19 output / Deck 2 cassette detection. "L" : ON
65	P18/$\overline{\text{REB}}$	O/I	FL segment P18 output / Deck 2 side B recordable SW. "L" : REC
66	P17/$\overline{\text{CAM2}}$	O/I	FL segment P17 output / Deck 2 CAM SW input. "L" : ON
67	P16/AUTO1	O/I	FL segment P16 output / Deck 1 auto stop input.
68	P15/AUTO2	O/I	FL segment P15 output / Deck 2 auto stop input.
69	P14/$\overline{\text{CAM1}}$	O/I	FL segment P14 output / Deck 1 CAM SW input. "L" : ON
70	P13/$\overline{\text{CST1}}$	O/I	FL segment P13 output / Deck 1 cassette detection SW. "L" : ON
71	P12/$\overline{\text{REA}}$	O/I	FL segment P12 output / Deck 2 side-A recordable SW. "L" : REC
72	VDD	–	Power supply.
73 ~ 83	P11 ~ P1	O	FL segment P11 ~ P1 output.
84	P39	O	FL segment P39 output.
85	$\overline{\text{KEYSCAN}}$	O	KEYSCAN output. "L" : ON
86	$\overline{\text{MOTOR}}$	O	DECK motor ON/OFF control. "L" : ON
87	$\overline{\text{SOL1}}$	O	DECK 1 solenoid control. "L" : ON
88	$\overline{\text{SOL2}}$	O	DECK 2 solenoid control. "L" : ON
89	GND	–	Connected to GND.
90	VDD	–	Power supply.
91	DISH-RVS	O	CD dish reverse output. "H" : REV
92	DISH-FWD	O	CD dish forward output. "H" : FWD
93	$\overline{\text{OPEN}}$	O	CD tray OPEN output. "L" : OPEN
94	$\overline{\text{CLOSE}}$	O	CD tray CLOSE output. "L" : CLOSE
95	CD-DATA/ RDS DATA	O/I	Serial data output to CD. RDS serial data input.
96	CD-XLT	O	CD DSP serial LATCH output. (Chip enable)
97	CD-CLK	O	CD DSP serial CLOCK output.
98	CD-LED	O	CD flash window LED control.
99	CD-SUBQ/IFC	I	CD SUBQ (Sub code) serial data input / TUNER IF COUNT data input.
100	DRF/STEREO	I	RF (radio frequency) detect / TUNER STEREO signal input.

FL (BJ751GNK) GRID ASSIGNMENT AND ANODE CONNECTION

GRID ASSIGNMENT





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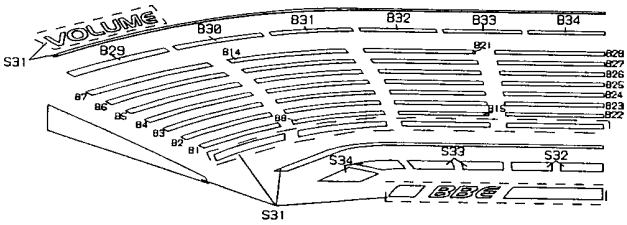

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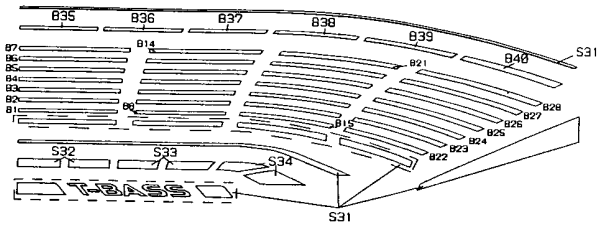
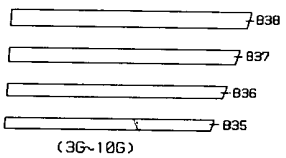


(13G)



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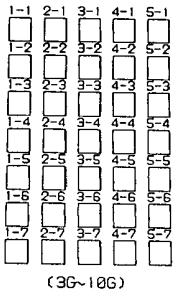

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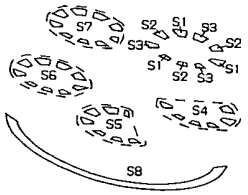
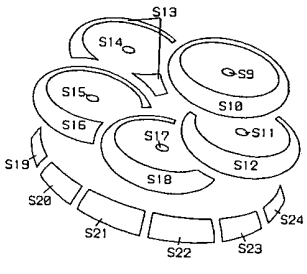
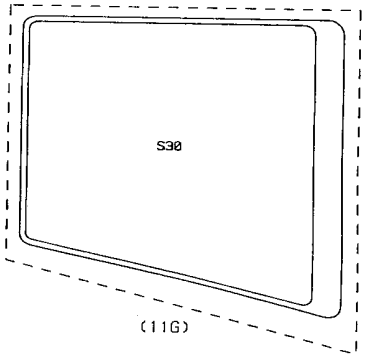




(1G)

(11G)

(11G)

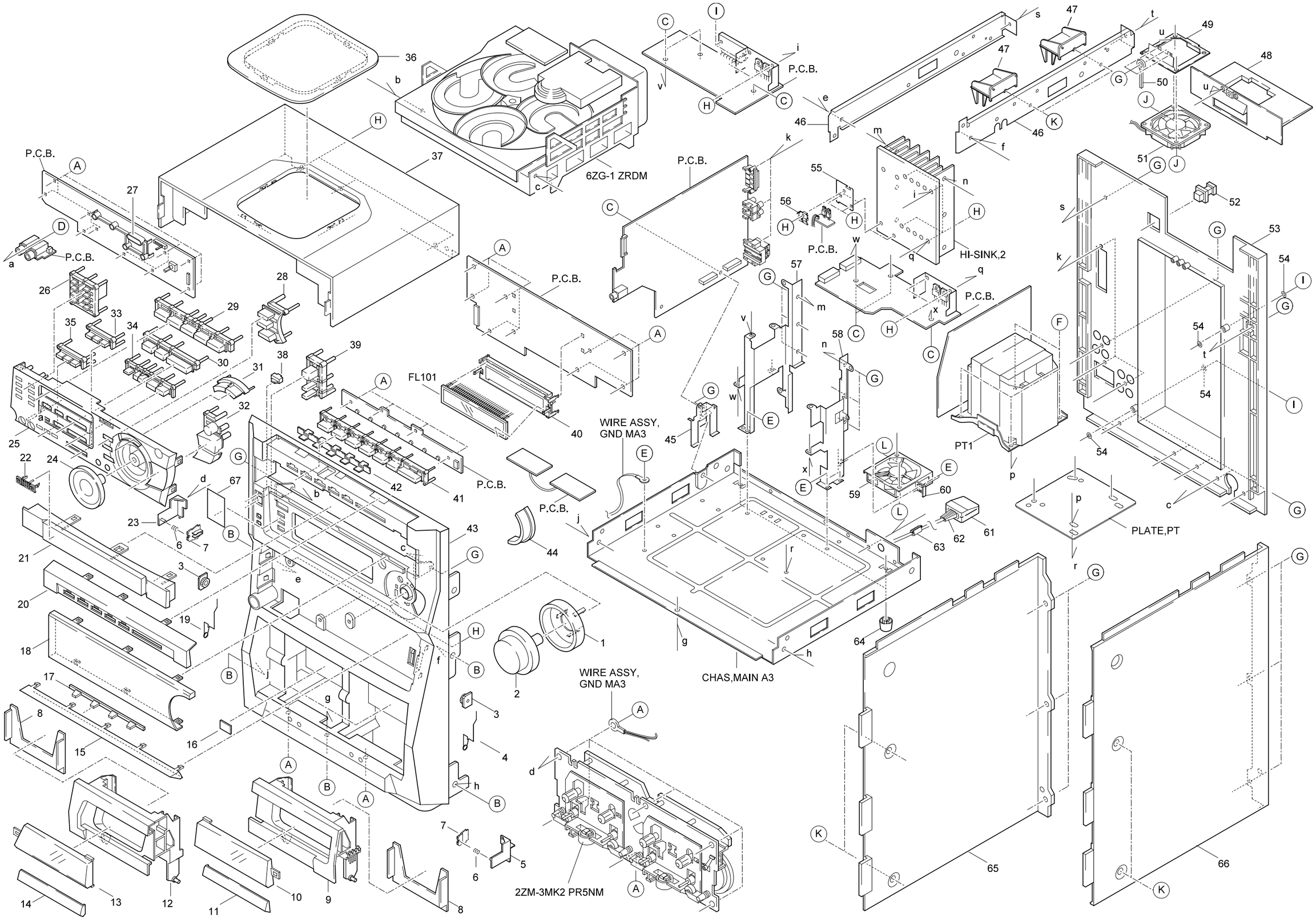


(11G)

ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G	13G
P1	SLEEP	-	1-1	1-1	1-1	1-1	1-1	1-1	1-1	1-1	S30	S31	S31
P2	REC	-	2-1	2-1	2-1	2-1	2-1	2-1	2-1	2-1	1	S32	S32
P3	⏲	-	3-1	3-1	3-1	3-1	3-1	3-1	3-1	3-1	2	S33	S33
P4	S1	-	4-1	4-1	4-1	4-1	4-1	4-1	4-1	4-1	3	S34	S34
P5	S2	-	5-1	5-1	5-1	5-1	5-1	5-1	5-1	5-1	4	B1	B1
P6	S3	-	1-2	1-2	1-2	1-2	1-2	1-2	1-2	1-2	5	B8	B8
P7	S9	-	2-2	2-2	2-2	2-2	2-2	2-2	2-2	2-2	6	B15	B15
P8	S10	-	3-2	3-2	3-2	3-2	3-2	3-2	3-2	3-2	7	B22	B22
P9	S7	-	4-2	4-2	4-2	4-2	4-2	4-2	4-2	4-2	8	B2	B2
P10	S14	-	5-2	5-2	5-2	5-2	5-2	5-2	5-2	5-2	9	B9	B9
P11	S13	a	1-3	1-3	1-3	1-3	1-3	1-3	1-3	1-3	10	B16	B16
P12	S11	b	2-3	2-3	2-3	2-3	2-3	2-3	2-3	2-3	11	B23	B23
P13	S4	f	3-3	3-3	3-3	3-3	3-3	3-3	3-3	3-3	12	B3	B3
P14	S12	g	4-3	4-3	4-3	4-3	4-3	4-3	4-3	4-3	13	B10	B10
P15	S6	c	5-3	5-3	5-3	5-3	5-3	5-3	5-3	5-3	14	B17	B17
P16	S15	e	1-4	1-4	1-4	1-4	1-4	1-4	1-4	1-4	15	B24	B24
P17	S16	d	2-4	2-4	2-4	2-4	2-4	2-4	2-4	2-4	16	B4	B4
P18	S5	VF	3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4	17	B11	B11
P19	S17	🎤	4-4	4-4	4-4	4-4	4-4	4-4	4-4	4-4	18	B18	B18
P20	S18	((●))	5-4	5-4	5-4	5-4	5-4	5-4	5-4	5-4	19	B25	B25
P21	S8	AUTO	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5	20	B5	B5
P22	S19	MONO	2-5	2-5	2-5	2-5	2-5	2-5	2-5	2-5	S25	B12	B12
P23	S20	(♭)	3-5	3-5	3-5	3-5	3-5	3-5	3-5	3-5	S26	B19	B19
P24	S21	(#)	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	S27	B26	B26
P25	S22	⟨	5-5	5-5	5-5	5-5	5-5	5-5	5-5	5-5	S28	B6	B6
P26	S23	⇄	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	S29	B13	B13
P27	S24	⟩	2-6	2-6	2-6	2-6	2-6	2-6	2-6	2-6	◁	B20	B20
P28	-	○	3-6	3-6	3-6	3-6	3-6	3-6	3-6	3-6	▷	B27	B27
P29	-	-	4-6	4-6	4-6	4-6	4-6	4-6	4-6	4-6	DX NR	B7	B7
P30	-	-	5-6	5-6	5-6	5-6	5-6	5-6	5-6	5-6	REC	B14	B14
P31	-	-	1-7	1-7	1-7	1-7	1-7	1-7	1-7	1-7	↩	B21	B21
P32	-	-	2-7	2-7	2-7	2-7	2-7	2-7	2-7	2-7	EDIT	B28	B28
P33	-	-	3-7	3-7	3-7	3-7	3-7	3-7	3-7	3-7	AI	B29	B35
P34	-	-	4-7	4-7	4-7	4-7	4-7	4-7	4-7	4-7	PRGM	B30	B36
P35	-	-	5-7	5-7	5-7	5-7	5-7	5-7	5-7	5-7	RANDOM	B31	B37
P36	-	-	B38	B38	B38	B38	B38	B38	B38	B38	SEARCH	B32	B38
P37	-	-	B37	B37	B37	B37	B37	B37	B37	B37	○	B33	B39
P38	-	-	B36	B36	B36	B36	B36	B36	B36	B36	MHz	B34	B40
P39	-	-	B35	B35	B35	B35	B35	B35	B35	B35	kHz	-	-

MECHANICAL EXPLODED VIEW 1 / 1



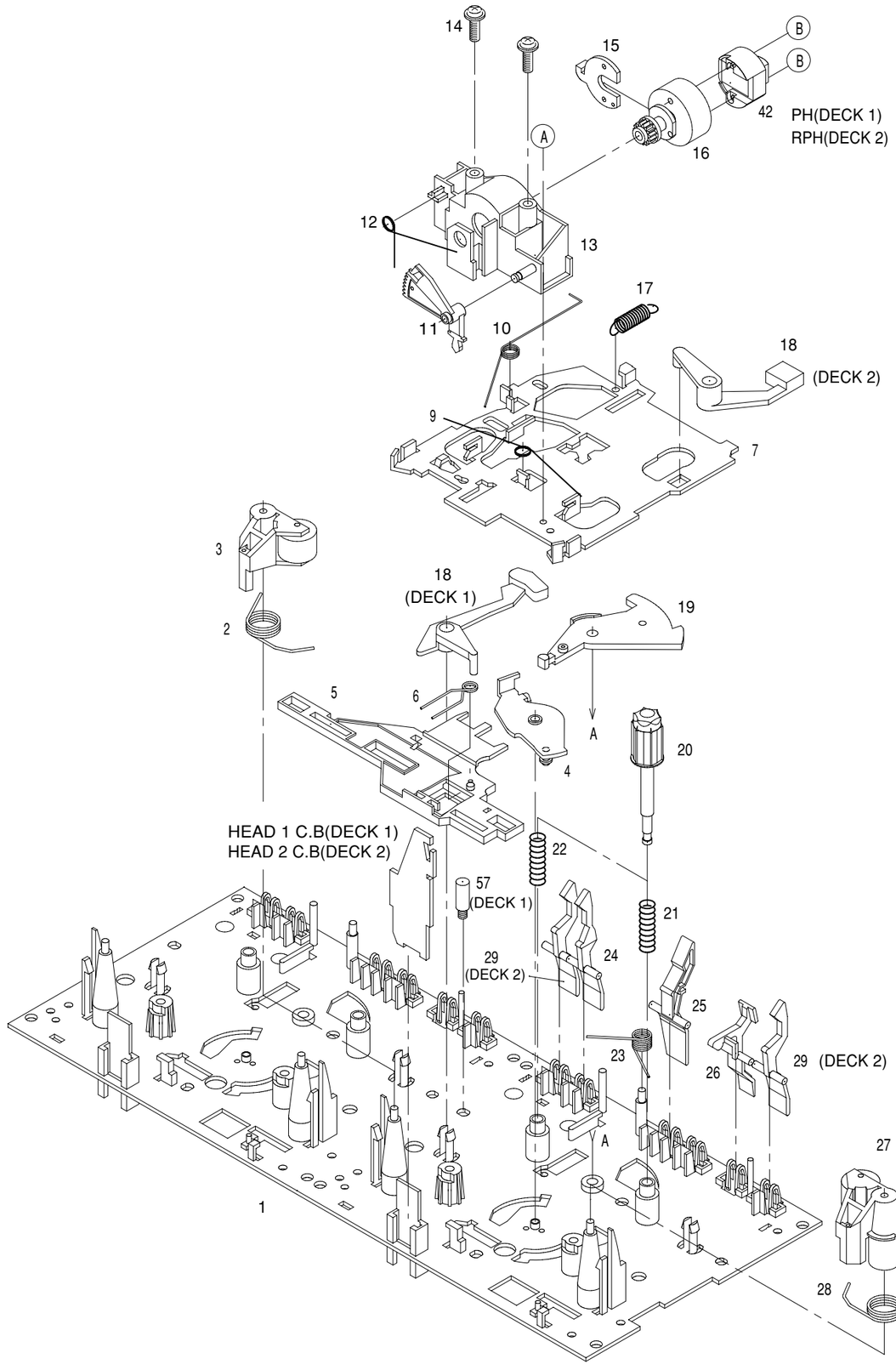
MECHANICAL PARTS LIST 1 / 1

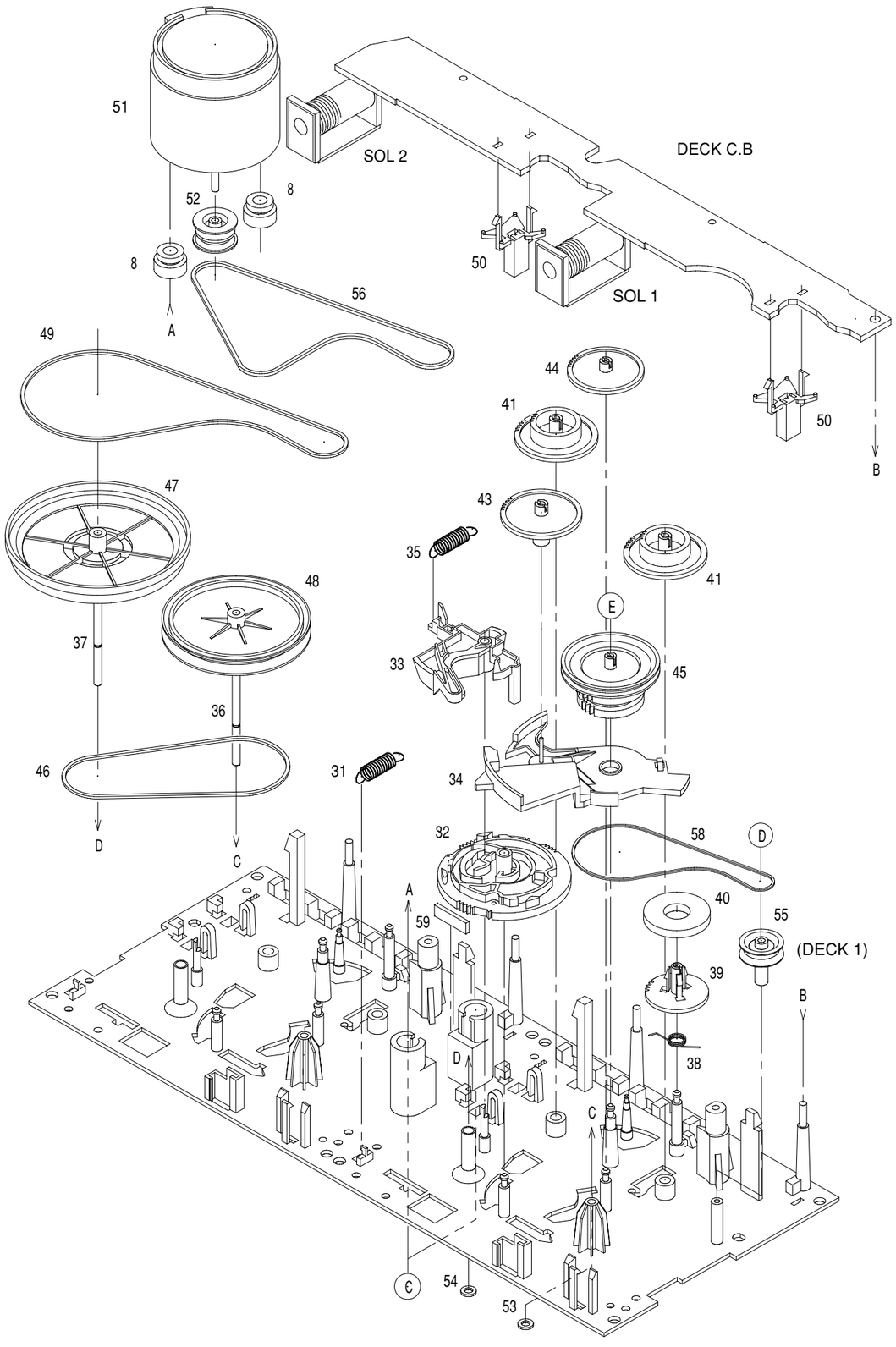
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-MA3-094-010		RING,MAIN
2	8A-MA3-090-110		KNOB,RTRY MAIN
3	87-NF8-220-010		DMPR,150
4	82-NF5-219-010		SPR-T,EJECT 2 (SIN)
5	87-NF4-217-110		HLDR,LOCK 2
6	86-NF9-224-010		SPR-C,LOCK
7	82-NF5-229-010		PLATE,LOCK
8	86-NF6-061-010		REFLECTOR,CASS
9	8A-MA3-026-110		BOX,CASS R
10	8A-MA3-056-010		WINDOW,CASS R
11	8A-MA3-036-010		PANEL,CASS R 3
12	8A-MA3-025-110		BOX,CASS L
13	8A-MA3-055-010		WINDOW,CASS L
14	8A-MA3-035-010		PANEL,CASS L 3
15	8A-MA3-041-010		PANEL,FUN 5F
16	81-532-080-010		LABEL, CASS. COMPT
17	8A-MA3-102-010		REFLECTOR,FUN 5F
18	8A-MAP-051-010		WINDOW,DISP RDS
19	82-NF5-218-010		SPR-T,EJECT 1 (SIN)
20	8A-MA3-034-010		PANEL,CD LED
21	8A-MA3-037-010		PANEL ASSY,TRAY 3
22	87-B00-002-010		BADGE,AIWA 30 ABS SIL
23	87-NF4-216-010		HLDR,LOCK 1
24	8A-MA3-093-010		KNOB ASSY,RTRY JOG
25	8A-MAP-031-010		PANEL,FR DPL RDS P
26	8A-MAP-069-010		KEY,DPL
27	8A-MA3-210-010		GUIDE,LED OPE
28	8A-MA3-071-010		KEY,TIMER
29	8A-MAP-066-010		KEY,FUN 5.1CH 5F
30	8A-MA3-083-010		KEY ASSY,DIR
31	8A-MA3-072-010		KEY,FREQ
32	8A-MA3-073-010		KEY,ENTER
33	8A-MA3-070-010		KEY,RDS
34	8A-MA3-084-010		KEY ASSY,FF
35	8A-MA3-080-010		KEY ASSY,GEQ 4M PM
36	8A-MA3-057-010		WINDOW,TOP
37	8A-MA3-020-110		CABI,TOP
38	8A-MA3-101-010		REFLECTOR,POWER
39	8A-MA3-075-010		KEY,POWER
40	88-MA1-205-010		GUIDE,FL
41	8A-MA3-061-010		KEY,CD
42	8A-MA3-100-010		REFLECTOR,CD
43	8A-MAP-001-010		CABI,FR DPL 3
44	8A-MA3-062-010		KEY,MIC
45	8A-MA3-207-010		HLDR,PWB MAIN H
46	88-MA1-208-210		JOINT,CABI
47	8A-MA3-212-010		HLDR,PWB PT
48	8A-MA3-211-010		COVER, FAN
49	8A-MA2-202-010		HLDR,FAN
50	87-064-185-010		HLDR,WIRE
51	87-A91-711-010		FAN, 3110GL-B4W-B34-H02 -400MM
52	84-ZG1-245-210		CAP,OPTICAL
53	8A-MAP-013-010		CABI,REAR KSTNM
54	8A-MA3-214-010		W,3.5-6.5-1 W/ADH
55	8A-MA3-213-010		PLATE,TR
56	86-NF6-211-010		HLDR,IC T1.6
57	8A-MA3-205-010		HLDR,HT-SINK L
58	8A-MA3-206-010		HLDR,HT-SINK R
59	87-A91-423-010		FAN,AD0612DS-D7OGL
60	8A-NF3-223-010		HLDR,FAN
⚠ 61	87-099-811-010		PLUG,ADPTR CONV(K)<K>
⚠ 62	87-A80-143-010		AC CORD ASSY,E BLK<K>
⚠ 62	87-A80-148-010		AC CORD ASSY,E BLK<EZ>
63	87-085-185-010		BUSHING, AC CORD (E)
64	87-MA3-062-010		FOOT, H17
65	8A-MA3-045-010		PANEL,SIDE L 3
66	8A-MA3-046-010		PANEL,SIDE R 3
67	8A-MAP-110-010		PLATE,DPL
A	87-078-060-010		BVIT3PB+3-10
B	87-591-095-410		TAPPING SCREW, QIT+3-8 (GLD)
C	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
D	81-MK1-210-010		S-SCREW,VFT2+3-16
E	87-067-688-010		BVTT+3-6
F	87-067-975-010		S-SCREW,IT+4-8
G	87-067-703-010		TAPPING SCREW, BVT2+3-10
H	87-067-758-010		BVT2+3-12 W/O SLOT
I	87-067-581-010		TAPPING SCREW, BVT2+3-15
J	87-067-579-010		TAPPING SCREW, BVT2+3-8
K	87-067-641-010		UTT2+3-8(W/O SLOT)BL
L	87-067-822-010		BVT2+3-20 W/O SLOT

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange		

TAPE MECHANISM EXPLODED VIEW 1 / 1





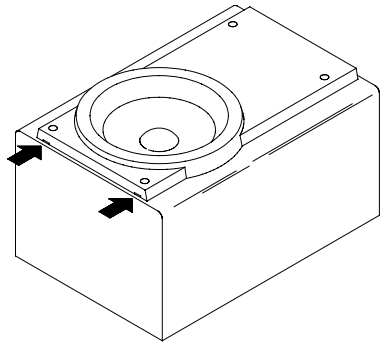
TAPE MECHANISM PARTS LIST 1 / 1

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-A90-366-010		HEAD,PH YK50P-BF414 FPC
42	87-A90-367-010		HEAD,RPH YK56R-BF414 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

SPEAKER DISASSEMBLY INSTRUCTIONS

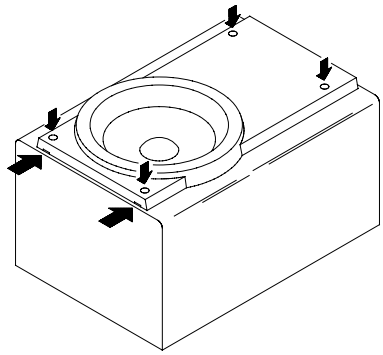
Type.1

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.



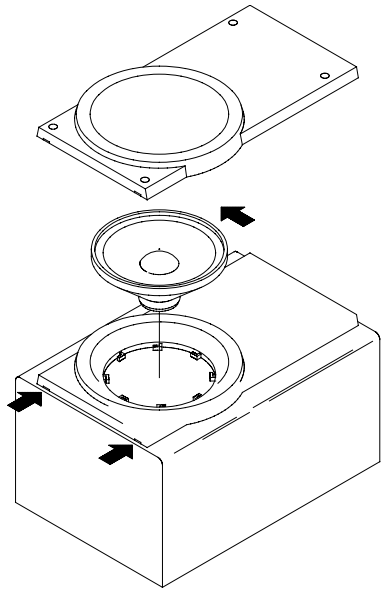
Type.2

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.

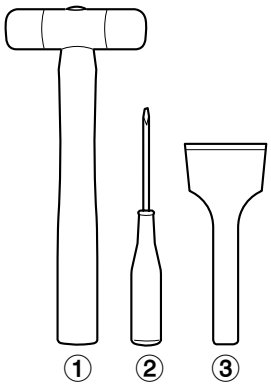


Type.3

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.

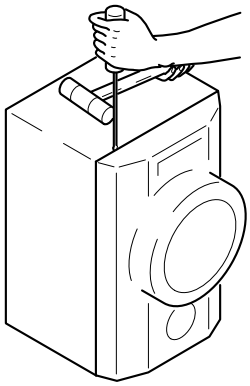


Fig-1

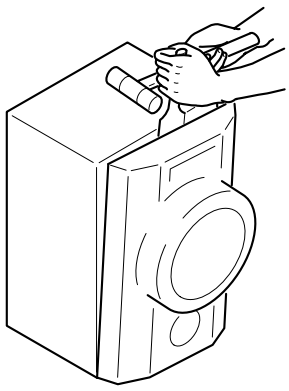


Fig-2

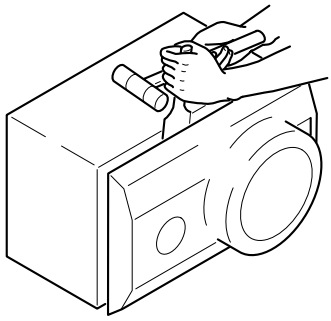


Fig-3

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-ZHT730 YSL)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-MSF-001-010		PANEL,FR
2	8A-MSF-002-010		RING,W
3	8A-MSF-003-010		PLATE,NAME
4	8A-MSF-004-010		PROTECTOR,TW
5	8A-MSF-005-010		GRILLE,FRAME ASSY
6	8A-NSJ-006-010		BADGE,AIWA S35
7	8A-MSD-601-010		SPKR,W 200
8	8A-MS2-605-110		SPKR,TW 60
9	88-NSK-610-010		SPKR,CERAMIC ASSY
10	87-NS7-611-010		CORD,SPKR

SPEAKER PARTS LIST (SX-CR677 YSTC)

NOTE: This SX-CR677 speaker contains SX-C607 (center speaker) and SX-R277 (rear speaker).

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-YS1-002-010		GRILLE,FRAME ASSY
2	81-VSA-009-010		CORD BUSH
3	8Z-YS1-601-010		SPKR, 100
4	87-YS6-002-010		SPKR, CORD Y
5	87-YS7-012-010		PANEL,FR S
6	87-010-384-010		CAP,E 100-25 SME
7	87-YS3-003-010		GRILL FRAME ASSY(C600)
8	81-VSA-009-010		CORD BUSH
9	87-YS7-602-010		SPKR, 100
10	83-NSM-010-010		SPEAKER CORD

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-MAP-905-010		IB,K (E) M<K>
1	8A-MAP-906-010		IB,EZ (9L) M<EZ>
2	87-A90-118-010		ANT,WIRE FM(Z)
3	87-A90-030-010		ANT,LOOP AM-NC C
4	8Z-NFV-702-010		RC UNIT,ZAS05

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