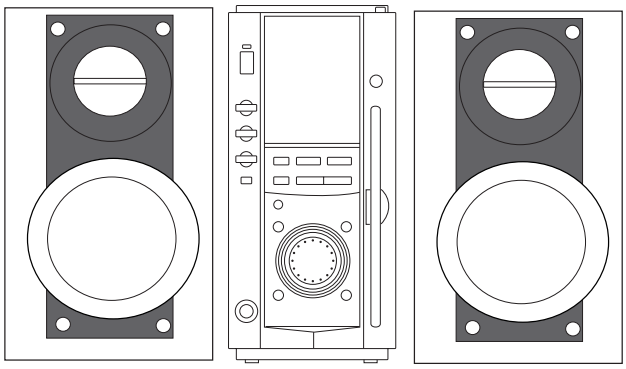
aiwa SERVICE

XR-MS3 U,EZ



SERVICE MANUAL

COMPACT DISC
STEREO SYSTEM

BASIC TAPE MECHANISM : 2ZM-1 R10NM
BASIC CD MECHANISM : TN-CCD1001-902M

SYSTEM	SPEAKER
XR–MS3	SX-MS7

- This Service Manual is the “Revision Publishing” and replaces “Simple Manual” XR-MS3 (U,EZ), (S/M Code No. 09-001-422-6T1).
- This Service Manual does not include “CD ELECTRICAL SECTION”. These items will be issued in the next Suplement.

aiwa

S/M Code No. 09-002-422-6R1

REVISION DATA

TABLE OF CONTENTS

SPECIFICATIONS

<FM tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	U : 13.2 dBf EZ : 16.8 dBf
Antenna terminals	75 ohms (unbalanced)

<AM (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> (EZ)

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

<Amplifier section>

Power output	U : 10 W + 10 W (50 Hz to 20 kHz, T.H.D. less than 1 %, 6 ohms) 15 W + 15 W (50 Hz to 20 kHz, T.H.D. less than 10 %, 6 ohms) EZ : Rated : 12 W + 12 W (6 ohms, T.H.D. 1 %, 1 kHz / DIN 45500) Reference : 15 W + 15 W (6 ohms, T.H.D. 10 %, 1 kHz / DIN 45324) DIN MUSIC POWER 20 W + 20 W
Total harmonic distortion (U)	0.15 % (6W, 1 kHz, 6 ohms, DIN AUDIO)
Input	VIDEO / AUX: 500 mV
Outputs	SPEAKERS: accept speakers of 6 ohms or more PHONES (stereo mini jack): accepts headphones of 16 ohms or more DIGITAL OUT (OPTICAL) jack

<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

<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	60 dB (Dolby B NR ON, CrO_2 tape peak level)
Recording system	AC bias
Heads	Recording / Playback head x 1, erase head x 1

<General>

Power requirements	U : 120 V AC, 60 Hz EZ : 230 V AC, 50 Hz
Power consumption	U : 45 W EZ : 57 W
Standby power consumption	U : 1.9 W (power-economizing mode set to ON) EZ : 1.7 W (power-economizing mode set to ON)
Dimensions of main unit (W x H x D)	100 x 210.6 x 271.5 mm (4 x $8^3/_8$ x $10^3/_4$ in.)
Weight of main unit	3.8 kg (8 lbs 6 oz.)

<Speaker system>

Cabinet type	2 way, bass reflex (magnetic shielded type)
Speakers	Woofer : 85 mm Tweeter: 22 mm dome type
Impedance	6 ohms
Output sound pressure level	86 dB/W/m
Dimensions (W x H x D)	100 x 206 x 188 mm (4 x $8^1/_8$ x $7^1/_2$ in.)
Weight	1.5 kg (3 lbs 5 oz.)

• Design and specifications are subject to change without notice.

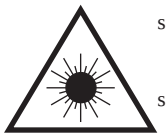
• The word "BBE"and the "BBE symbol" are trademarks of BBE Sound, Inc.
Under license from BBE Sound,Inc.

• Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and the double-D symbol ⧠⧠ 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.



s Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.

s 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.

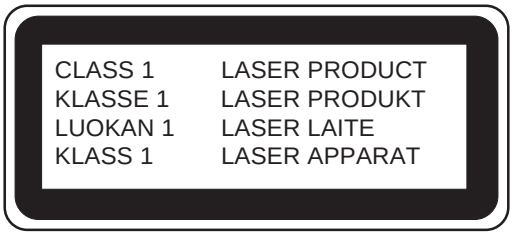
VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

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.

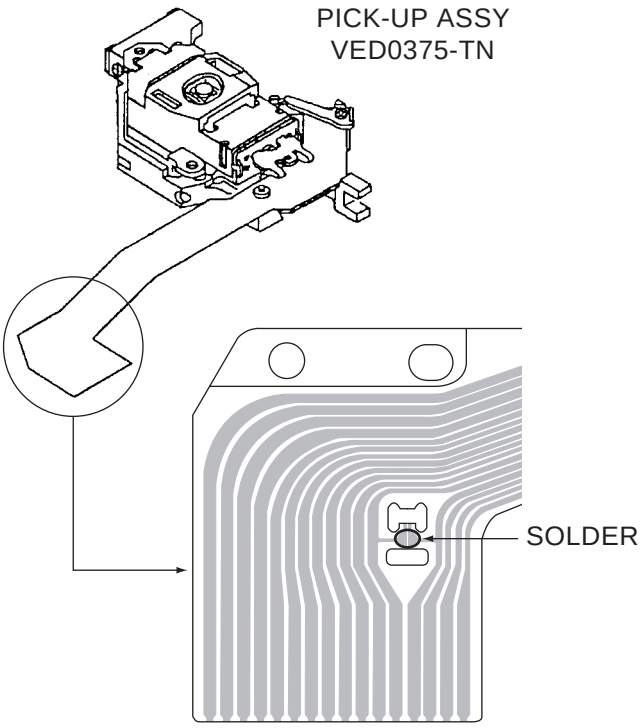


Precaution to replace Optical block

(VED0375-TN)

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.



SERVICE JIG AND TOOLS

The distance between the FRONT C.B and the MAIN C.B may be extended with the jig when repairing the FRONT C.B.

Name: JIG, EXT 18P
No.: SV-J00-071-010

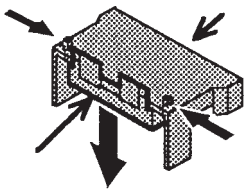


Fig. 1

1. Assemble Method
   1) Remove the solders on the pattern side of JIG C.B.
   2) Remove the covers by pushing the picks of sockets (as shown by Fig. 1).
   3) Insert and solder the parts into JIG C.B (as shown by Fig. 2).
   4) Insert FFC cable into each connector to connect a socket part and a plug part (Fig. 2).

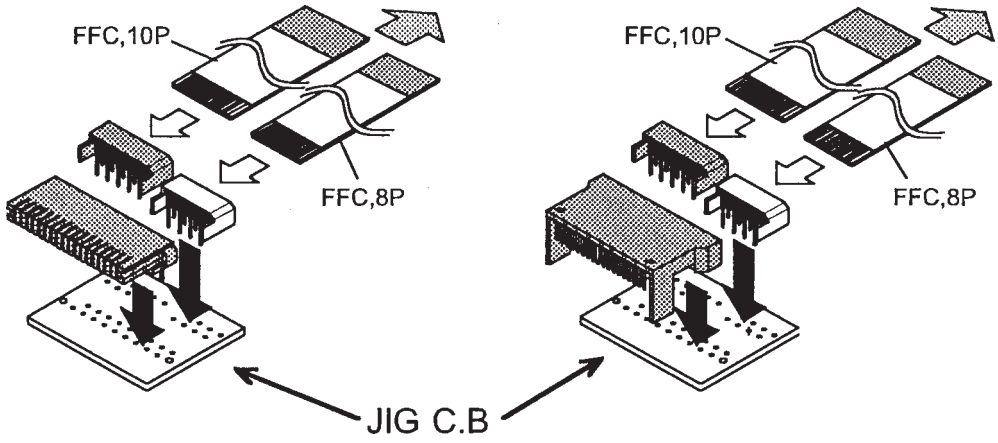


Fig. 2

2. Connection
   As shown in the figure below, connect the plug side to the FRONT C.B and the socket side to the MAIN C.B.
   • Beware of short circuit on the pattern side of the JIG C.B and FFC coming off.

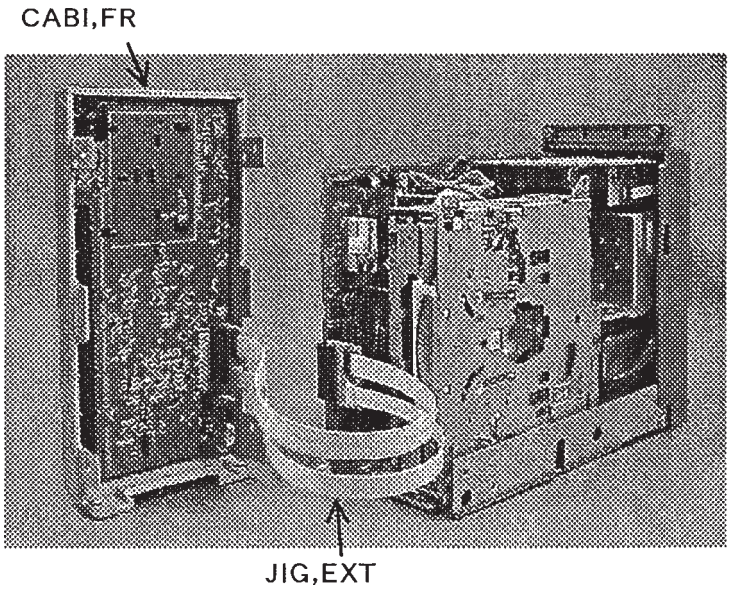
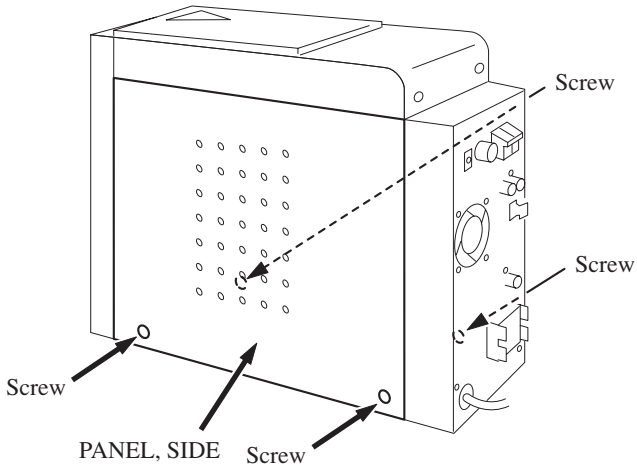


Fig. 3

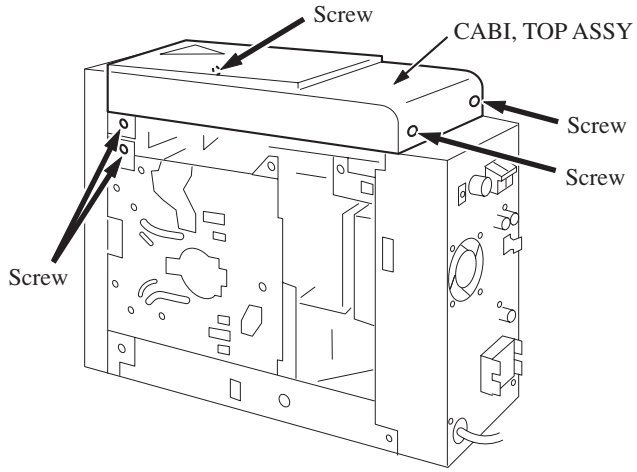
DISASSEMBLY INSTRUCTIONS

1. CD BLOCK

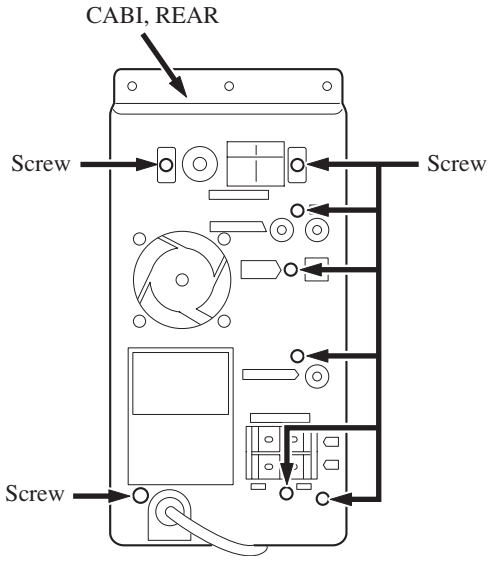
1) Remove the PANEL, SIDE.
Remove the four screws indicated by the arrows and remove the PANEL, SIDE (right and left).



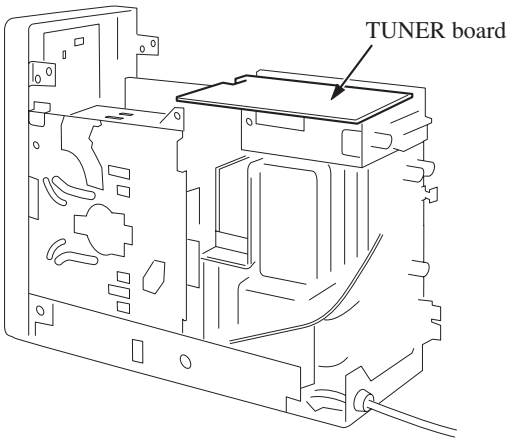
2) Remove the CABI, TOP ASSY.
Remove the five screws indicated by the arrows and remove the CABI, TOP ASSY.



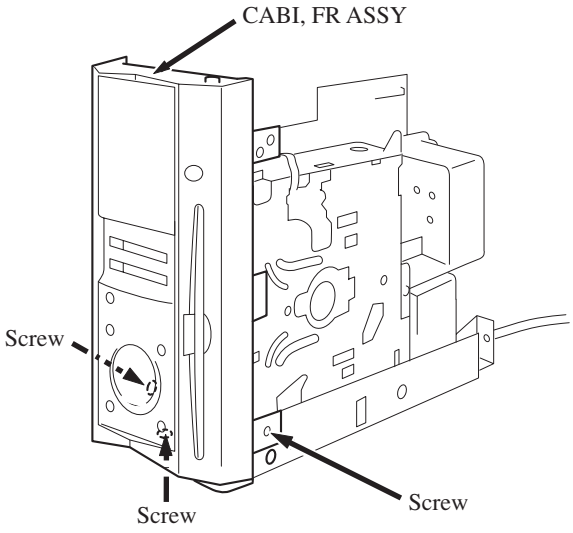
3) Remove the CABI, REAR.
Remove the eight screws indicated by the arrows and remove the CABI, REAR.

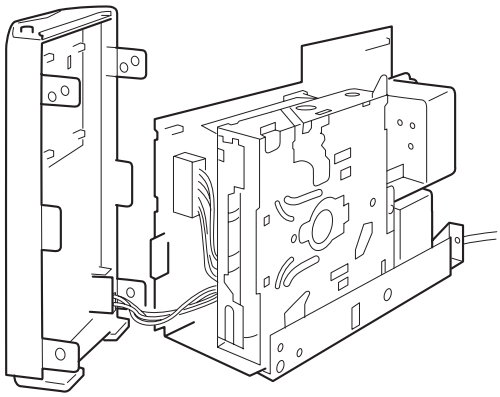


4) Remove the TUNER board.
Remove the TUNER board connected to the connector.

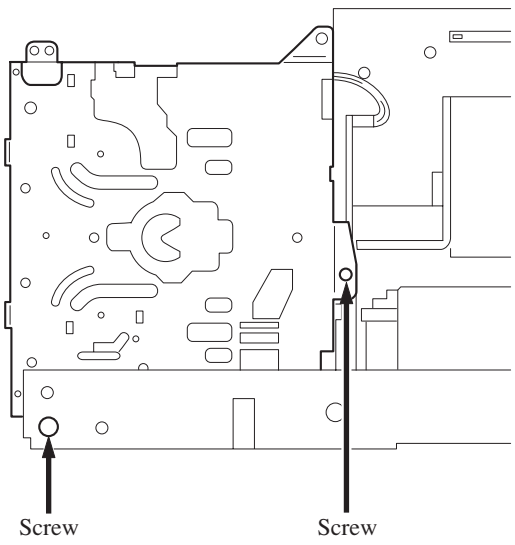


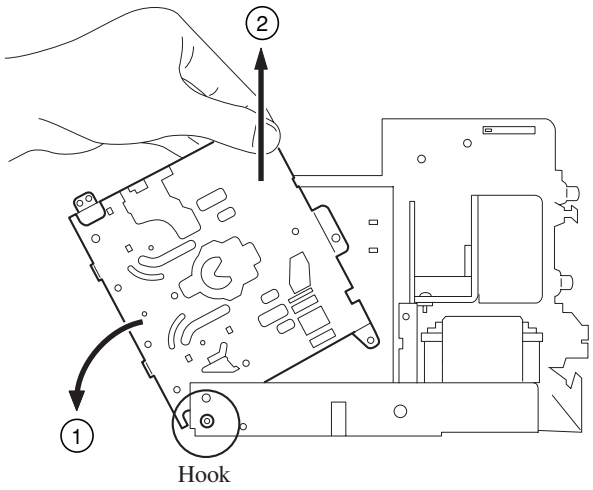
5) Remove the CABI, FR ASSY.
Remove the three screws indicated by the arrows and remove the CABI, FR ASSY.





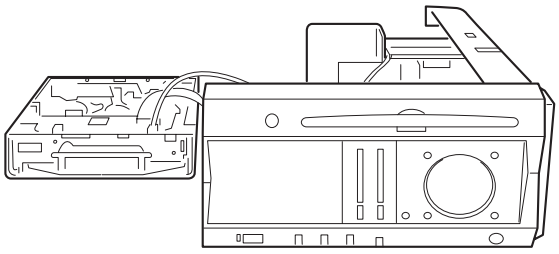
6) Remove the CD MECHA.
(1) Remove the two screws indicated by the arrows.
(2) Lift up the CD MECHA in the direction of arrow 1 and hook in the position indicated in circle.
(3) Remove the CD MECHA in the direction of arrow 2.

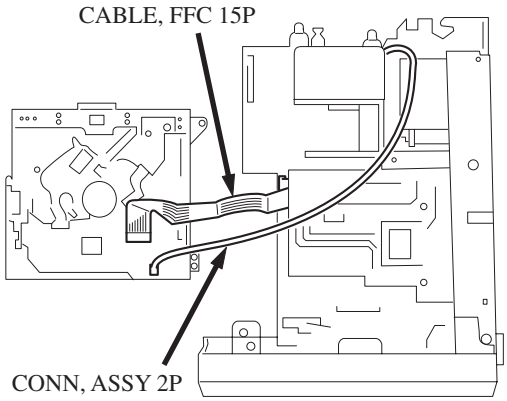




7) Lay the XR-MS3 in its Service Position.
   (1) Attach the CABI, FR ASSY.
   (2) Place the main unit and the CD unit as shown below.
   (3) Connect the CABLE, FFC 15P and CONN, ASSY 2P to the CD MECHA and turn on the main power.

Service Position

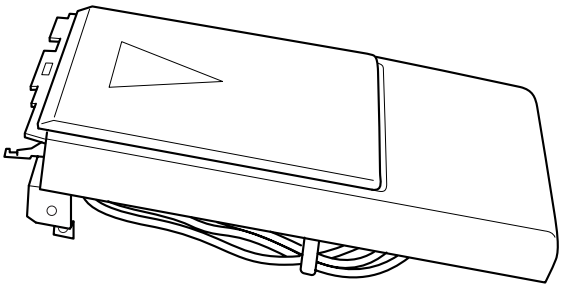




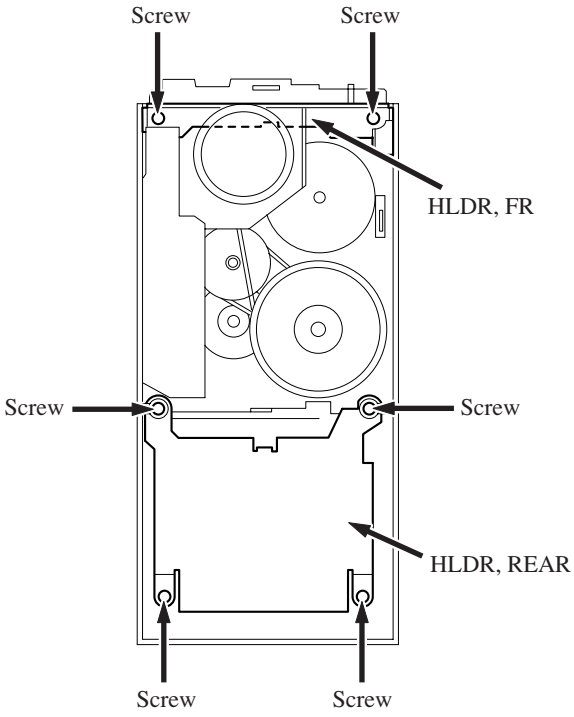
2. CASSETTE BLOCK

1) Remove the CABI, TOP ASSY in the same procedure (1 ~ 3) as for CD block.

CABI, TOP ASSY

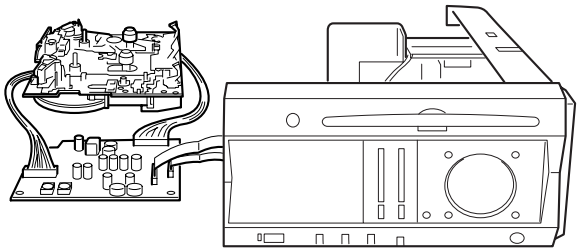


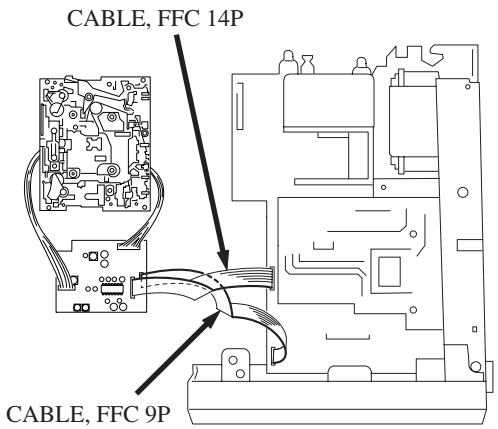
2) Remove the HLDR, FR and HLDR, REAR.
Remove the six screws indicated by the arrows and remove the HLDR, FR and HLDR, REAR.



3) Remove the HLDR, FR and HLDR, REAR.
Remove the six screws indicated by the arrows and remove the HLDR, FR and HLDR, REAR.

Service Position





ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	8A-CJ5-601-010		C-IC,LC876580W-5N98
	87-070-246-010		IC,GP1U271X
	87-A20-909-010		IC,LA4663
	87-017-915-080		IC,BU4094BCF
	87-017-585-080		IC,NJM4580E
	87-A20-355-010		IC,CXA1553P
	87-A20-783-040		C-IC,BA7762AFS
	87-A21-022-040		C-IC,BA3880FS
	87-A21-103-040		C-IC,MM1454XFBE
	87-A21-111-040		C-IC,M62495FP
	87-017-825-010		IC,GP1F32T
	87-020-454-010		IC,DN6851
	87-070-127-110		IC,LC72131D
	87-A20-913-010		IC,LA1837NL
	87-A20-440-040		C-IC,BU1920FS<EZ>
TRANSISTOR			
	89-213-702-010		TR,2SB1370E
	87-A30-076-080		C-TR,2SC3052F
	87-026-610-080		TR,KTC3198GR
	87-A30-075-080		C-TR,2SA1235F
	87-A30-234-080		TR,CSC4115BC
	89-418-580-080		TR,2SD1858TV2
	87-026-245-080		TR,DTC114ES
	87-A30-198-080		TR,KTC3199GR
	87-026-609-080		TR,KTA1266GR
	87-026-210-080		CHIP-TR,DTC144EK
	87-A30-087-080		C-FET,2SK2158
	87-A30-073-080		C-TR,RT1N 141C
	87-026-236-080		C-TR,DTC124EK
	87-A30-086-070		C-TR,CSD1306E
	87-026-211-080		C-TR,DTA144EK
	87-A30-240-080		TR,CSA1585BC
	87-A30-159-080		C-TR,KTA1298Y
	87-A30-072-080		C-TR,RT1P 144C
	87-A30-273-040		C-TR,DTC124EKA
	87-A30-202-080		C-TR,RT1P441C
	89-505-434-540		C-FET,2SK543(4/5)
	87-A30-074-080		C-TR,RT1P 141C
	89-327-143-080		C-TR,2SC2714(0.1W)
DIODE			
	87-020-465-080		DIODE,1SS133
	87-A40-224-010		DIODE,GBU8DL
	87-A40-313-080		C-DIODE,MC 2840
	87-A40-346-080		ZENER,MTZJ 8.2C
	87-A40-345-080		ZENER,MTZJ10C
	87-070-274-080		DIODE,1N4003 SEM
	87-A40-336-080		ZENER,MTZJ27D T-72
	87-A40-435-080		ZENER,MTZJ30D
	87-A40-270-080		C-DIODE,MC2838
	87-A40-004-080		ZENER,MTZJ16A
	87-070-136-080		ZENER,MTZJ5.1B
	87-A40-509-080		ZENER,MTZJ6.8C
	87-A40-269-080		C-DIODE,MC2836
	87-A40-235-080		ZENER,MTZJ9.1C
	87-A40-293-080		ZENER,DZ2.7M
	87-A40-438-080		ZENER,MTZJ4.7A
	87-017-149-080		ZENER,HZS6A2L
MAIN C.B			
C1	87-010-194-080		CAP, CHIP 0.047
C2	87-010-194-080		CAP, CHIP 0.047
C3	87-010-196-080		CHIP CAPACITOR,0.1-25
C4	87-010-196-080		CHIP CAPACITOR,0.1-25
C5	87-010-196-080		CHIP CAPACITOR,0.1-25
C6	87-010-196-080		CHIP CAPACITOR,0.1-25
C7	87-010-194-080		CAP, CHIP 0.047
C8	87-010-196-080		CHIP CAPACITOR,0.1-25
C9	87-A12-033-090		CAP,E 6800-25 SMG30L
C10	87-010-409-080		CAP,E 220-50 SME
C11	87-010-380-080		CAP, ELECT 47-16V
C13	87-010-408-080		CAP, ELECT 47-50V
C14	87-010-235-080		CAP,E 470-16 SME
C15	87-010-387-080		CAP,E 470-25 SME
C16	87-012-369-080		C-CAP,S 0.047-50F
C17	87-012-369-080		C-CAP,S 0.047-50F
C18	87-A10-776-080		CAP,E 1000-25 M 105 KMG
C19	87-010-403-080		CAP, ELECT 3.3-50V
C30	87-010-112-080		CAP, ELECT 100-16V
C31	87-016-126-080		CAP,E 470-16 M 105 KME
C61	87-010-260-080		CAP, ELECT 47-25V
C62	87-010-496-040		CAP,E 3.3-50 GAS
C91	87-010-401-080		CAP, ELECT 1-50V
C92	87-010-263-080		CAP, ELECT 100-10V
C93	87-010-553-040		CAP,E 47-16 GAS
C101	87-010-754-080		CAP,E220-10 SRA 7L
C102	87-010-754-080		CAP,E220-10 SRA 7L
C103	87-010-196-080		CHIP CAPACITOR,0.1-25
C104	87-010-198-080		CAP, CHIP 0.022
C105	87-010-196-080		CHIP CAPACITOR,0.1-25
C106	87-010-400-040		CAP,E 0.47-50
C108	87-010-313-080		CAP, CHIP 18P
C109	87-012-156-080		C-CAP,S 220P-50 CH
C110	87-010-196-080		CHIP CAPACITOR,0.1-25
C111	87-010-079-040		CAP,E 100-6.3 5L
C112	87-010-194-080		CAP, CHIP 0.047
C114	87-010-194-080		CAP, CHIP 0.047
C115	87-010-405-040		CAP,E 10-50
C116	87-010-196-080		CHIP CAPACITOR,0.1-25
C117	87-010-196-080		CHIP CAPACITOR,0.1-25
C118	87-010-196-080		CHIP CAPACITOR,0.1-25
C129	87-010-316-080		C-CAP,S 33P-50 CH
C130	87-010-178-080		CHIP CAP 1000P
C201	87-010-491-040		CAP,E 0.22-50 GAS
C202	87-010-545-040		CAP,E 0.22-50 SME
C203	87-010-178-080		CHIP CAP 1000P
C204	87-010-178-080		CHIP CAP 1000P
C205	87-010-546-040		CAP,E 0.33-50
C206	87-010-546-040		CAP,E 0.33-50
C211	87-010-405-040		CAP,E 10-50
C212	87-010-260-080		CAP, ELECT 47-25V
C215	87-010-405-080		CAP, ELECT 10-50V
C216	87-010-405-080		CAP, ELECT 10-50V
C217	87-012-368-080		C-CAP,S 0.1-50 F
C218	87-012-368-080		C-CAP,S 0.1-50 F
C219	87-012-368-080		C-CAP,S 0.1-50 F
C220	87-012-368-080		C-CAP,S 0.1-50 F
C221	87-010-405-080		CAP, ELECT 10-50V
C223	87-010-196-080		C-CAP,S 0.1-25 ZF
C301	87-010-322-080		C-CAP,S 100P-50 CH
C302	87-010-322-080		C-CAP,S 100P-50 CH
C303	87-016-044-040		CAP,E 100-16 GAS
C304	87-016-044-040		CAP,E 100-16 GAS
C305	87-010-071-040		CAP,E 1-50 M 5L SRE
C306	87-010-071-040		CAP,E 1-50 M 5L SRE
C307	87-010-553-040		CAP,E 47-16 GAS
C308	87-010-555-040		CAP,E 100-10 GAS
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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
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	87-010-195-080		C-CAP,S 0.068-25 F
C418	87-010-195-080		C-CAP,S 0.068-25 F
C419	87-010-260-080		CAP, ELECT 47-25V
C421	87-012-140-080		CAP 470P
C422	87-012-140-080		CAP 470P
C552	87-010-405-080		CAP, ELECT 10-50V
C553	87-010-260-080		CAP, ELECT 47-25V
C554	87-010-197-080		CAP, CHIP 0.01 DM
C555	87-010-197-080		CAP, CHIP 0.01 DM
C557	87-010-405-080		CAP, ELECT 10-50V
C573	87-010-405-080		CAP, ELECT 10-50V
C574	87-010-405-080		CAP, ELECT 10-50V
C575	87-010-322-080		C-CAP,S 100P-50 CH
C601	87-010-187-080		CAP CHIP S5600P
C602	87-010-187-080		CAP CHIP S5600P
C605	87-010-182-080		C-CAP,S 2200P-50 B
C606	87-010-182-080		C-CAP,S 2200P-50 B
C607	87-010-213-080		C-CAP,S 0.015-50 B
C608	87-010-213-080		C-CAP,S 0.015-50 B
C609	87-010-545-080		CAP, ELECT 0.22-50V
C610	87-010-491-080		CAP,E 0.22-50 GAS
C611	87-010-545-080		CAP, ELECT 0.22-50V
C612	87-010-491-080		CAP,E 0.22-50 GAS
C613	87-010-553-080		CAP,E 47-16
C614	87-010-553-080		CAP,E 47-16
C615	87-010-154-080		CAP CHIP 10P
C622	87-010-402-080		CAP, ELECT 2.2-50V
C623	87-010-402-080		CAP, ELECT 2.2-50V
C641	87-010-196-080		CHIP CAPACITOR,0.1-25
C643	87-010-805-080		CAP, S 1-16
C644	87-010-196-080		CHIP CAPACITOR,0.1-25
C702	87-018-209-080		CAP,TU U 0.1-50 ZF
C703	87-010-197-080		CAP, CHIP 0.01 DM
C704	87-010-382-040		CAP,E 22-25 SME
C706	87-010-382-040		CAP,E 22-25 SME
C902	87-010-322-080		C-CAP,S 100P-50 CH
C903	87-010-322-080		C-CAP,S 100P-50 CH
CN1	87-A60-850-010		CONN,7P V VH
CN91	87-A60-619-010		CONN,2P V 2MM JMT
CN601	87-A60-902-010		CONN,14P V BLK FMN-BTRK
CN701	87-A60-619-010		CONN,2P V 2MM JMT
CN901	87-A60-770-010		CONN,18P B TMC-D(X)
CN902	87-A60-900-010		CONN,9P V BLK FMN-BTRK
CN903	87-A60-189-010		CONN,16P V TUC-P16P-B1<EZ>
CN904	87-099-570-010		CONN,13P TUC-P13P-B1<U>
CN905	87-A61-258-010		CONN,15P V 52806-1510
CNA002	88-805-040-820		CONN ASSY,4P 80
CNA003	88-805-051-420		CONN ASSY,5P 140
CNA201	88-805-043-020		CONN ASSY,4P 300
CNA700	8A-CJ5-634-010		CONN ASSY,2P SHLD
⚠ F1	87-A90-172-080		FUSE,1A 125V 251<U>
⚠ F2	87-A90-410-080		FUSE,0.5A 125V 251<U>
⚠ F3	87-A90-210-080		FUSE,7A 125V 251<U>
⚠ F4	87-A90-210-080		FUSE,7A 125V 251<U>
⚠ F5	87-A90-172-080		FUSE,1A 125V 251<U>
FC905	8A-CL5-626-010		CABLE,FFC15P-1.0 130
J201	87-A60-238-010		TERMINAL,SP 4P (MSC)
J202	87-099-801-010		JACK,PIN 1P BLK
J601	87-A60-881-010		JACK,PIN 2P MSP 242V05 PBSN
L101	87-A50-333-010		COIL,OSC 9.43MHZ
⚠ PR1	87-026-689-080		PROTECTOR,1A 60V 491<EZ>
⚠ PR2	87-026-689-080		PROTECTOR,1A 60V 491<EZ>
⚠ PR3	87-A90-195-080		PROTECTOR 7A 125V 49<EZ>
⚠ PR4	87-A90-195-080		PROTECTOR 7A 125V 49<EZ>
⚠ PR5	87-026-689-080		PROTECTOR,1A 60V 491<EZ>
WH005	87-A90-507-010		HLDR,WIRE 2.5-4P

FRONT C.B

C102	87-010-415-040		CAP,E 10-50 5L
C103	87-012-157-080		C-CAP,S 330P-50 CH
C104	87-010-421-040		CAP,E 4.7-50 5L
C105	87-010-421-040		CAP,E 4.7-50 5L
C106	87-010-408-040		CAP,E 47-50 SME
C107	87-012-369-080		C-CAP,S 0.047-50F
C108	87-010-197-080		CAP, CHIP 0.01 DM
C109	87-010-197-080		CAP, CHIP 0.01 DM
C110	87-010-196-080		CHIP CAPACITOR,0.1-25
C111	87-012-368-080		C-CAP,S 0.1-50 F
C301	87-010-196-080		CHIP CAPACITOR,0.1-25
CN101	87-A60-778-010		CONN,18P B TMC-D(P)
FL101	8A-CL5-608-010		FL,9-ST-19GONK
LED101	87-A40-317-080		LED,SLR-342VCT31 RED
LED301	87-A40-786-080		LED,SMLS1BE16WTP4 BLU/UMB
LED302	87-A40-786-080		LED,SMLS1BE16WTP4 BLU/UMB
LED303	87-A40-786-080		LED,SMLS1BE16WTP4 BLU/UMB
R102	87-022-355-080		C-RES,S10K-1/10W F
R103	87-022-355-080		C-RES,S10K-1/10W F
S102	87-A91-426-010		SW,RTRY 3-2-1 RE01311-2-12PCE
S201	87-A90-095-080		SW,TACT EVQ11G04M
S202	87-A90-095-080		SW,TACT EVQ11G04M
S203	87-A90-095-080		SW,TACT EVQ11G04M
S204	87-A90-095-080		SW,TACT EVQ11G04M
S205	87-A90-095-080		SW,TACT EVQ11G04M
S206	87-A90-095-080		SW,TACT EVQ11G04M
S207	87-A90-095-080		SW,TACT EVQ11G04M
S208	87-A90-095-080		SW,TACT EVQ11G04M
S209	87-A90-095-080		SW,TACT EVQ11G04M
S210	87-A90-095-080		SW,TACT EVQ11G04M
S211	87-A90-095-080		SW,TACT EVQ11G04M
S212	87-A90-095-080		SW,TACT EVQ11G04M
S213	87-A90-095-080		SW,TACT EVQ11G04M
S214	87-A90-095-080		SW,TACT EVQ11G04M
S215	87-A90-095-080		SW,TACT EVQ11G04M
S216	87-A90-095-080		SW,TACT EVQ11G04M

TAPE C.B

C303	87-012-157-080		C-CAP,S 330P-50 CH
C304	87-012-157-080		C-CAP,S 330P-50 CH
C307	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
C315	87-012-274-080		CHIP CAP,U 1000P-50B
C316	87-012-274-080		CHIP CAP,U 1000P-50B
C317	87-A10-201-080		C-CAP,S0.33-16 KB
C318	87-A10-201-080		C-CAP,S0.33-16 KB
C319	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C320	87-012-141-080		CHIP-CAPACITOR,0.22-16F
C321	87-A10-025-080		C-CAP,U 0.22-16Z F
C322	87-A10-025-080		C-CAP,U 0.22-16Z F
C324	87-010-260-040		CAP,E 47-25 SME
C325	87-010-370-040		CAP,E 330-6.3 SME
C327	87-010-404-040		CAP,E 4.7-50 SME
C328	87-010-404-040		CAP,E 4.7-50 SME
C332	87-010-196-080		CHIP CAPACITOR,0.1-25
C335	87-010-401-040		CAP,E 1-50 SME
C336	87-010-401-040		CAP,E 1-50 SME
C337	87-010-196-080		CHIP CAPACITOR,0.1-25
C339	87-010-831-080		C-CAP,U,0.1-16F
C340	87-010-196-080		CHIP CAPACITOR,0.1-25
C351	87-012-140-080		CAP 470P

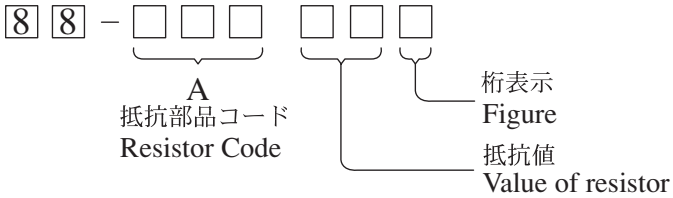
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C352	87-012-140-080		CAP 470P
C354	87-010-175-080		CAP 560P
C355	87-010-178-080		CHIP CAP 1000P
C356	87-010-260-040		CAP,E 47-25 SME
C357	87-010-197-080		CAP, CHIP 0.01 DM
C358	87-010-183-080		C-CAP,S 2700P-50 B
C359	87-010-183-080		C-CAP,S 2700P-50 B
C360	87-010-183-080		C-CAP,S 2700P-50 B
C370	87-010-196-080		CHIP CAPACITOR,0.1-25
C371	87-010-177-080		C-CAP,S 820P-50 SL
C372	87-010-177-080		C-CAP,S 820P-50 SL
C373	87-010-179-080		CAP,CHIP S B1200P
C374	87-010-179-080		CAP,CHIP S B1200P
C375	87-010-545-040		CAP,E 0.22-50 SME
C376	87-010-545-040		CAP,E 0.22-50 SME
C378	87-010-196-080		CHIP CAPACITOR,0.1-25
C386	87-010-759-080		C-CAP,U, 0.1-25F
C388	87-012-266-080		C-CAP,U 220P-50 B
CN251	87-A60-626-010		CONN,9P V 2MM JMT
CN351	87-A60-625-010		CONN,8P V 2MM JMT
CN601	87-A60-891-080		C-CONN,14P V FMN-BMTTN-TF
CN902	87-A60-888-080		C-CONN,9P V FMN-BMTTN-TF
FC601	8A-CL5-628-010		CABLE,FFC14P-1.0 160
FC902	8A-CL5-627-010		CABLE,FFC9P-1.0 220
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
SFR303	87-024-435-080		SFR 33K RH 063EC
SFR304	87-024-435-080		SFR 33K RH 063EC
SFR305	87-A90-433-080		SFR,50K H NVZ6TLTA
SFR306	87-A90-433-080		SFR,50K H NVZ6TLTA
SFR351	87-A90-433-080		SFR,50K H NVZ6TLTA
SFR352	87-A90-433-080		SFR,50K H NVZ6TLTA
VM C.B			
C27	87-012-140-080		CAP 470P
C28	87-010-263-080		CAP, ELECT 100-10V<U>
C29	87-010-247-080		CAP, ELECT 100-50V
CN3	87-009-033-010		CONNECTOR, 5P
R20	87-A00-261-080		RES,M/F 0.56-1W J<U>
HP-JACK C.B			
CN102	87-A60-668-010		CONN,4P H 2MM JMT
J101	87-A60-420-010		JACK,3.5 ST (MSC)
PT C.B			
⚠ C1	87-A10-479-080		CAP,CER 2200P-250 M E KH
⚠ CN1	87-A60-645-010		CONN,3P V VH
CN2	87-A60-621-010		CONN,4P V 2MM JMT
⚠ F1	87-A91-276-080		FUSE,125MA 125V F 251<U>
⚠ PT1	8Z-NF8-662-010		PT,SUB ZNF-8(E)<EZ>
⚠ PT1	8Z-NF8-661-010		PT,SUB ZNF-8(U)<U>
⚠ PT2	8A-CJ5-622-010		PT,ACJ-5 EZ<EZ>
⚠ PT2	8A-CJ5-621-010		PT,ACJ-5 U<U>
⚠ RY1	87-A90-977-010		RELAY,AC12V DG12D1-O(M)
⚠ T1	87-A60-317-010		TERMINAL, 1P MSC
⚠ T2	87-A60-317-010		TERMINAL, 1P MSC
TUNER C.B			
C701	87-010-381-080		CAP,ELECT 330-16V
C702	87-010-404-080		CAP,ELECT 4.7-50V
C703	87-012-286-080		CAP,U 0.01-25
C704	87-012-286-080		CAP,U 0.01-25
C705	87-A10-592-080		C-CAP,S 0.015-50 J B<U>
C706	87-A10-592-080		C-CAP,S 0.015-50 J B<U>
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
C713	87-012-286-080		CAP,U 0.01-25<EZ>
C714	87-012-286-080		CAP,U 0.01-25
C715	87-012-195-080		C-CAP,U 100P-50CH<EZ>
C717	87-012-286-080		CAP,U 0.01-25
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<U>
C725	87-018-131-080		CAP,TC U 1000P-50 KB<EZ>
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<U>
C733	87-012-280-080		C-CAP,U 3300P-50 KB<EZ>
C734	87-010-987-080		C-CAP,S 1500P-50 CH<U>
C734	87-012-280-080		C-CAP,U 3300P-50 KB<EZ>
C735	87-010-987-080		C-CAP,S 1500P-50 CH<U>
C736	87-010-987-080		C-CAP,S 1500P-50 CH<U>
C737	87-A10-592-080		C-CAP,S 0.015-50 J B<U>
C738	87-A10-592-080		C-CAP,S 0.015-50 J B<U>
C751	87-012-365-080		C-CAP,S 0.027-25VBK<U>
C752	87-012-365-080		C-CAP,S 0.027-25VBK<U>
C752	87-012-282-080		C-CAP,U 4700P-50 KB<EZ>
C753	87-012-195-080		C-CAP,U 100P-50 J CH<EZ>
C755	87-012-286-080		CAP,U 0.01-25<EZ>
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
C761	87-010-196-080		C-CAP,S 0.1-25 ZF<EZ>
C762	87-012-286-080		CAP,U 0.01-25<EZ>
C763	87-010-829-080		CAP,U 0.047-16
C764	87-012-337-080		C-CAP,U 56P-50 CH<U>
C765	87-012-286-080		CAP,U 0.01-25
C766	87-010-197-080		C-CAP,S 0.01-25 KB<EZ>
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<U>
C777	87-010-493-080		CAP,E 0.47-50 M 5L SRE<EZ>
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<U>
C785	87-010-402-080		CAP,ELECT 2.2-50V<EZ>
C786	87-010-401-080		CAP, ELECT 1-50V<U>
C786	87-010-402-080		CAP,ELECT 2.2-50V<EZ>
C787	87-012-275-080		C-CAP,U 1200P-50 B<EZ>
C788	87-012-275-080		C-CAP,U 1200P-50 B<EZ>
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

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C797	87-012-276-080		C-CAP,U 1500P-50 KB<EZ>
C798	87-012-276-080		C-CAP,U 1500P-50 KB<EZ>
C799	87-010-829-080		CAP,U 0.047-16
C812	87-012-286-080		CAP,U 0.01-25
C814	87-012-286-080		CAP,U 0.01-25<EZ>
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
C859	87-012-286-080		C-CAP,U 0.01-25 KB<EZ>
C861	87-012-199-080		C-CAP,U 220P-50 J CH<EZ>
C862	87-012-199-080		C-CAP,U 220P-50 J CH<EZ>
C863	87-012-270-080		C-CAP,U 470P-50 KB<EZ>
C864	87-010-405-080		CAP,E 10-50 M 11L SME<EZ>
C865	87-010-196-080		C-CAP,S 0.1-25 ZF<EZ>
C866	87-010-405-080		CAP,E 10-50 M 11L SME<EZ>
C867	87-012-286-080		C-CAP,U 0.01-25 KB<EZ>
C868	87-012-184-080		C-CAP,U 33P-50 J CH<EZ>
C869	87-012-180-080		C-CAP,U 22P-50 J CH<EZ>
C940	87-012-286-080		C-CAP,U 0.01-25 KB<EZ>
C942	87-012-168-080		C-CAP,U 6P-50 D CH<EZ>
C947	87-012-286-080		C-CAP,U 0.01-25 KB<EZ>
C949	87-A10-039-080		C-CAP,U 470P-50 J CH<EZ>
C952	87-012-286-080		C-CAP,U 0.01-25 KB<EZ>
C958	87-010-197-080		C-CAP,S 0.01-25 KB<EZ>
C959	87-010-196-080		CHIP CAPACITOR,0.1-25<U>
C959	87-010-831-080		C-CAP,U 0.1-16 ZF<EZ>
C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C961	87-012-170-080		C-CAP,U 8P-50 CH<U>
C962	87-010-401-080		CAP,E 1-50 M 11L SME<EZ>
C963	87-010-196-080		CHIP CAPACITOR,0.1-25<U>
CF801	87-008-261-010		FILTER, SFE10.7MA5-A<U>
CF801	87-008-423-010		FLTR,CF SFE10.7MS3G-A<EZ>
CF802	87-008-261-010		FILTER, SFE10.7MA5-A<U>
CF802	82-785-747-010		CF,MS2 GHY R<EZ>
CN701	87-A60-700-010		CONN,13P H GRY TUC-P13X-C1<U>
CN701	87-A60-650-010		CONN,16P H GRY TUC-P16X-C1<EZ>
FFE801	A8-8ZA-190-030		8ZA-1 FEUNM<U>

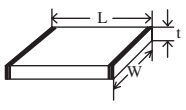
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
FFE801	A8-6ZA-191-130		6ZA-1 FEENM<EZ>
J801	87-A60-702-010		TERMINAL,ANT 4P CJ-9036<U>
J801	87-033-241-010		TERMINAL,ANT 2P AJ-2039<EZ>
L771	87-A50-266-010		COIL,FM DET-2N(TOK)
L772	87-A90-110-010		FLTR,PCFJZH-450 (TOK)<U>
L772	87-A91-110-010		FLTR,PCFJZH-450(TOK)<EZ>
L781	87-005-847-010		COIL,2.2UH K CECS<EZ>
L791	87-A50-027-010		COIL,1 POLE MPX(TOK)<EZ>
L792	87-A50-027-010		COIL,1 POLE MPX(TOK)<EZ>
L832	87-005-847-080		COIL,2.2UH K CECS<EZ>
L851	87-005-847-080		COIL,2.2UH K CECS<EZ>
L941	87-A50-020-010		COIL,ANT LW(COI)252KHZ<EZ>
L942	87-A50-019-010		COIL,OSC LW(COI) 856KHZ<EZ>
L981	8Z-ZA1-667-010		COIL,AM PACK 4F(TOK)<U>
L981	8Z-ZA1-665-010		COIL,AM PACK 2(TOK)<EZ>
TC942	87-011-164-010		TRIMMER,CER 30P 4.5X3.9 VCT31<EZ>
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
X851	87-A70-091-010		VIB,XTAL 4.332MHZ CSA-309<EZ>
DECK C.B			
CNA1	82-ZM1-636-010		CONN ASSY,9P
SFR1	87-024-581-010		SFR,3.3K H KVSF637A
SOL2	82-ZM1-634-010		SOL ASSY,23K
SW2	87-036-110-010		SW,MICRO SPPB62
SW3	87-036-110-010		SW,MICRO SPPB62
SW4	87-036-110-010		SW,MICRO SPPB62
SW5	87-036-110-010		SW,MICRO SPPB62
SW6	87-A90-248-010		SW,MICRO ESE11SH2CXQ
W1	82-ZM1-625-010		RBN-CORD,4P-5S
RELAY C.B			
CN301	8A-CL5-625-010		CONN ASSY,8P RPB

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

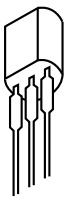
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

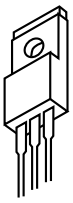
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード : A Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



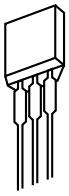
E C B

CSA1585
CSC4115
KTA1266
KTC3198
KTC3199



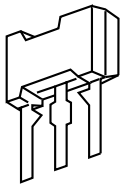
B C E

2SB1370



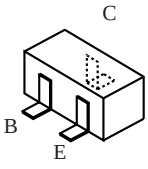
E C B

DTC114ES

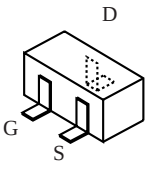


E C B

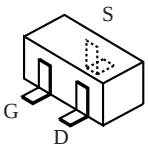
2SD1858



2SA1235
2SC2714
2SC3052
CSD1306
DTA144EK
DTC124EK
DTC124EKA
DTC144EK
KTA1298
RT1N141C
RT1P141C
RT1P144C
RT1P441C

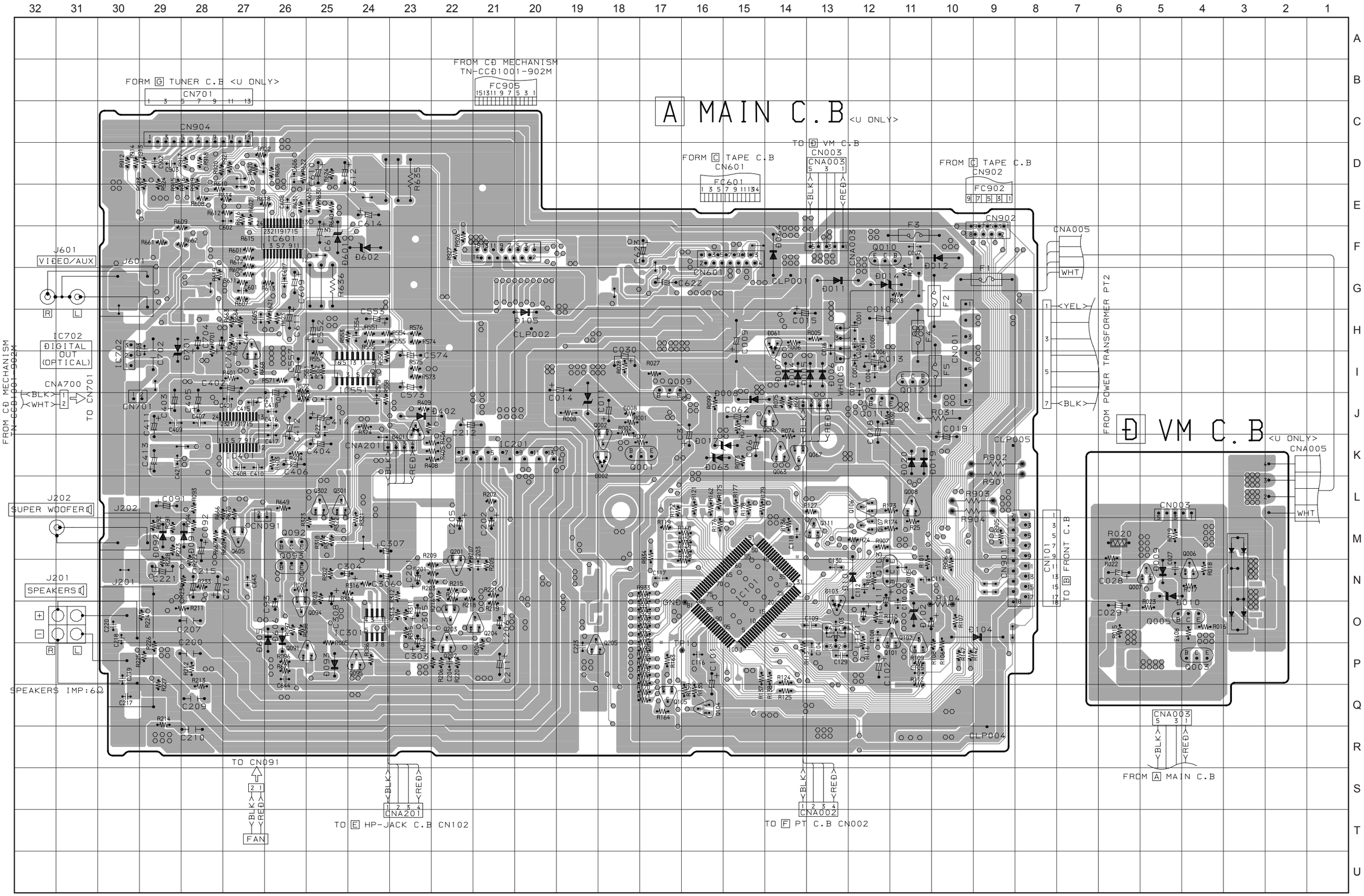


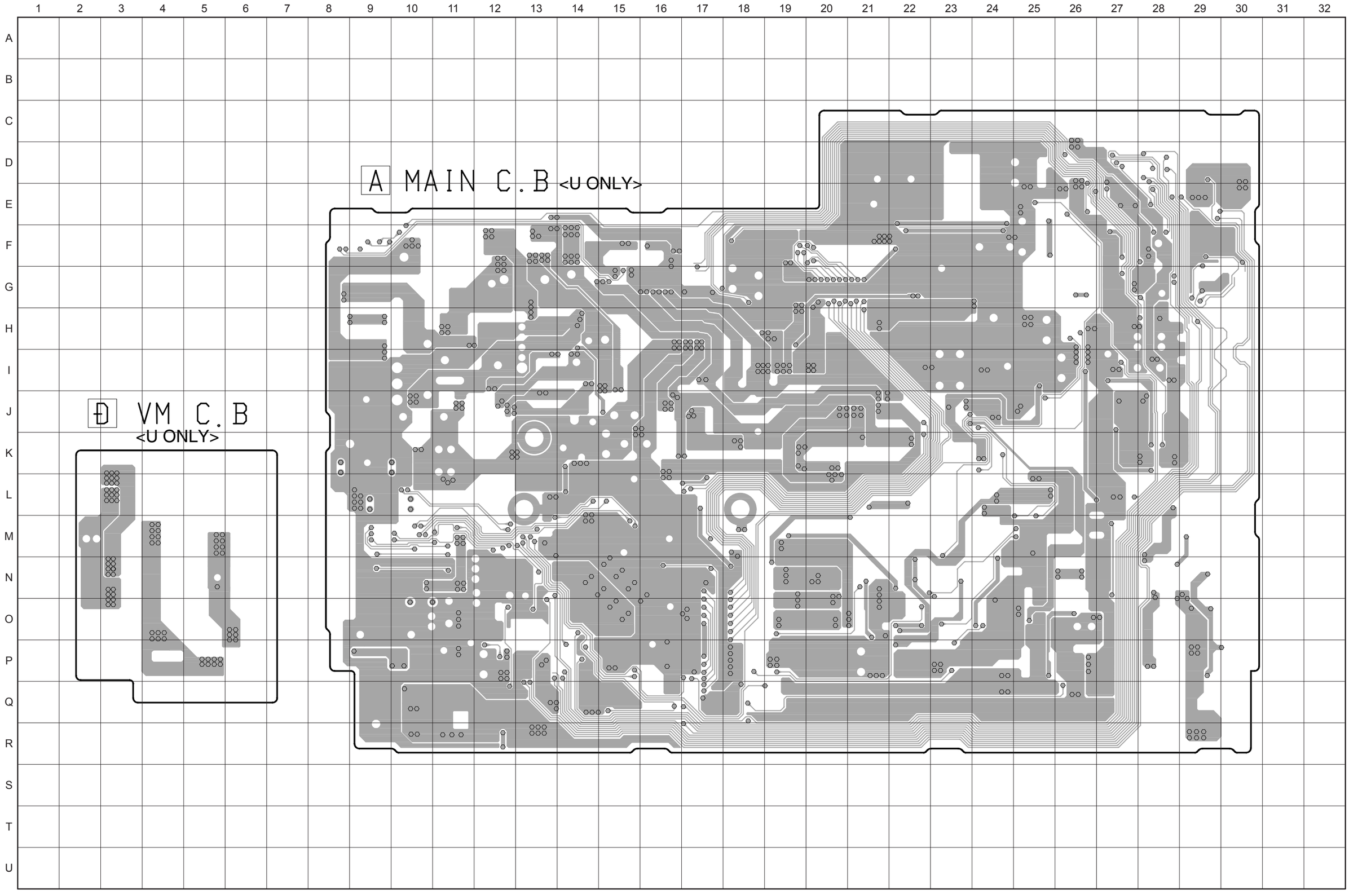
2SK2158



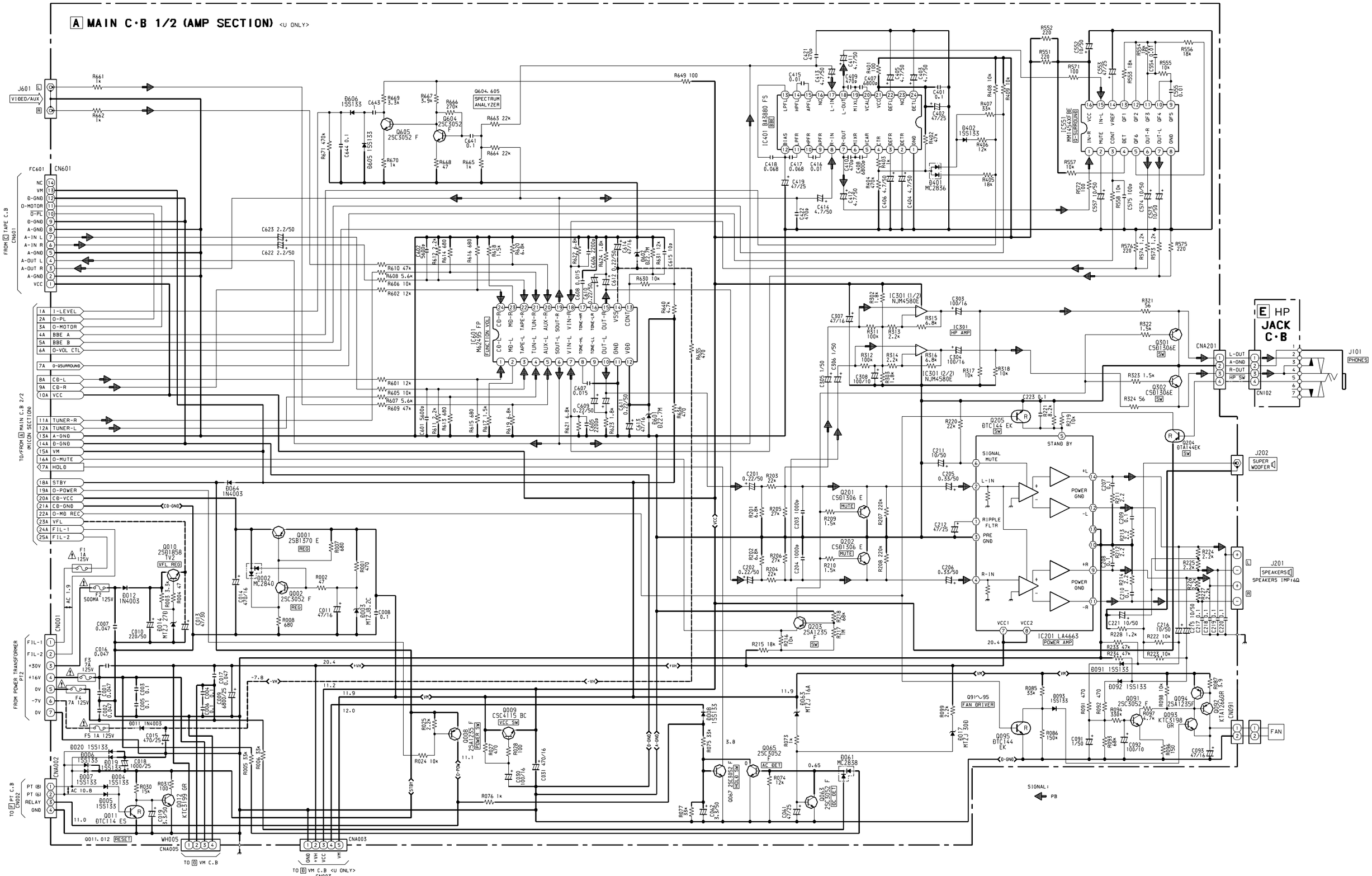
2SK543

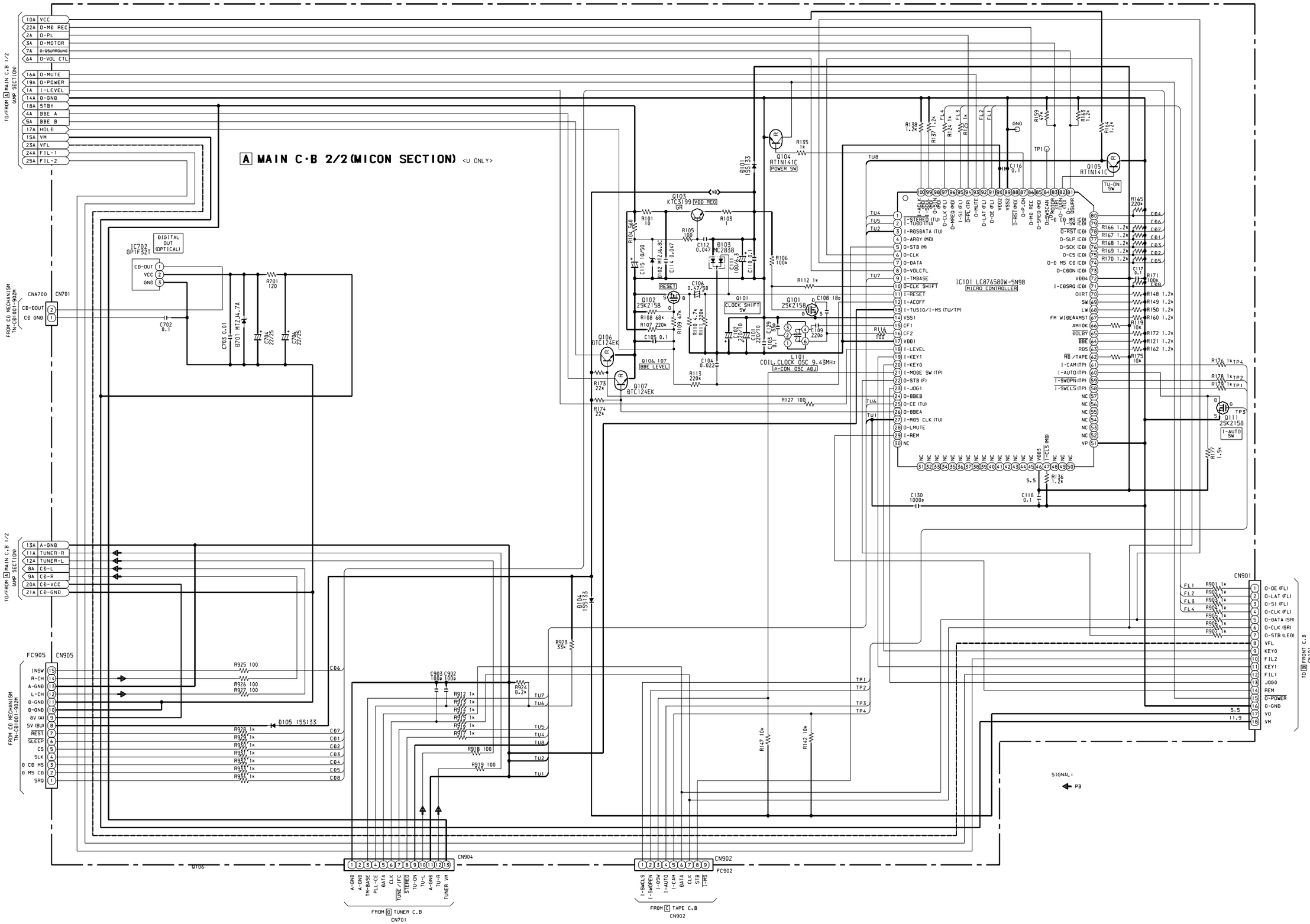
WIRING - 1 (U: MAIN/VM) <1/2>



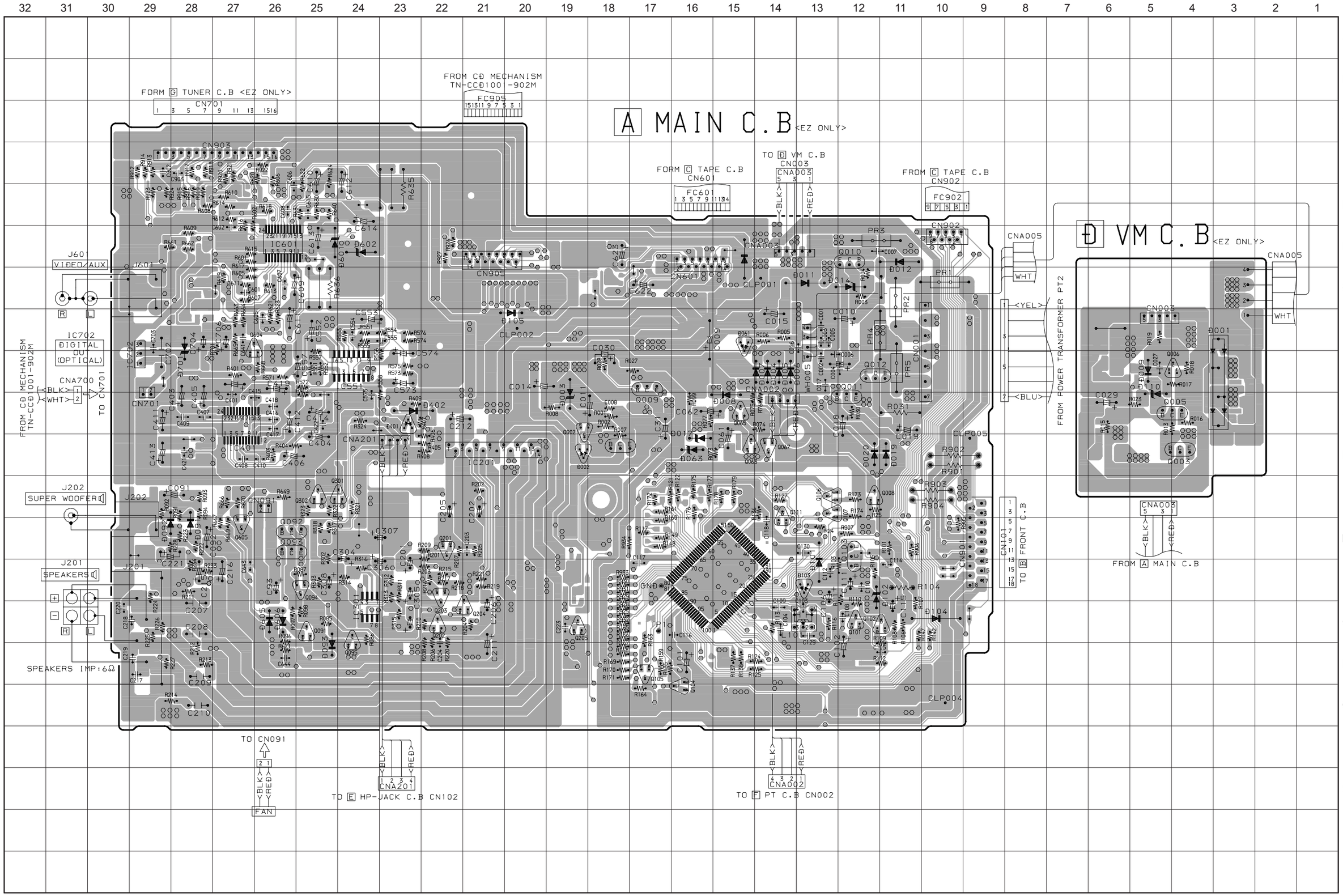

A MAIN C.B <U ONLY>
D VM C.B
<U ONLY>

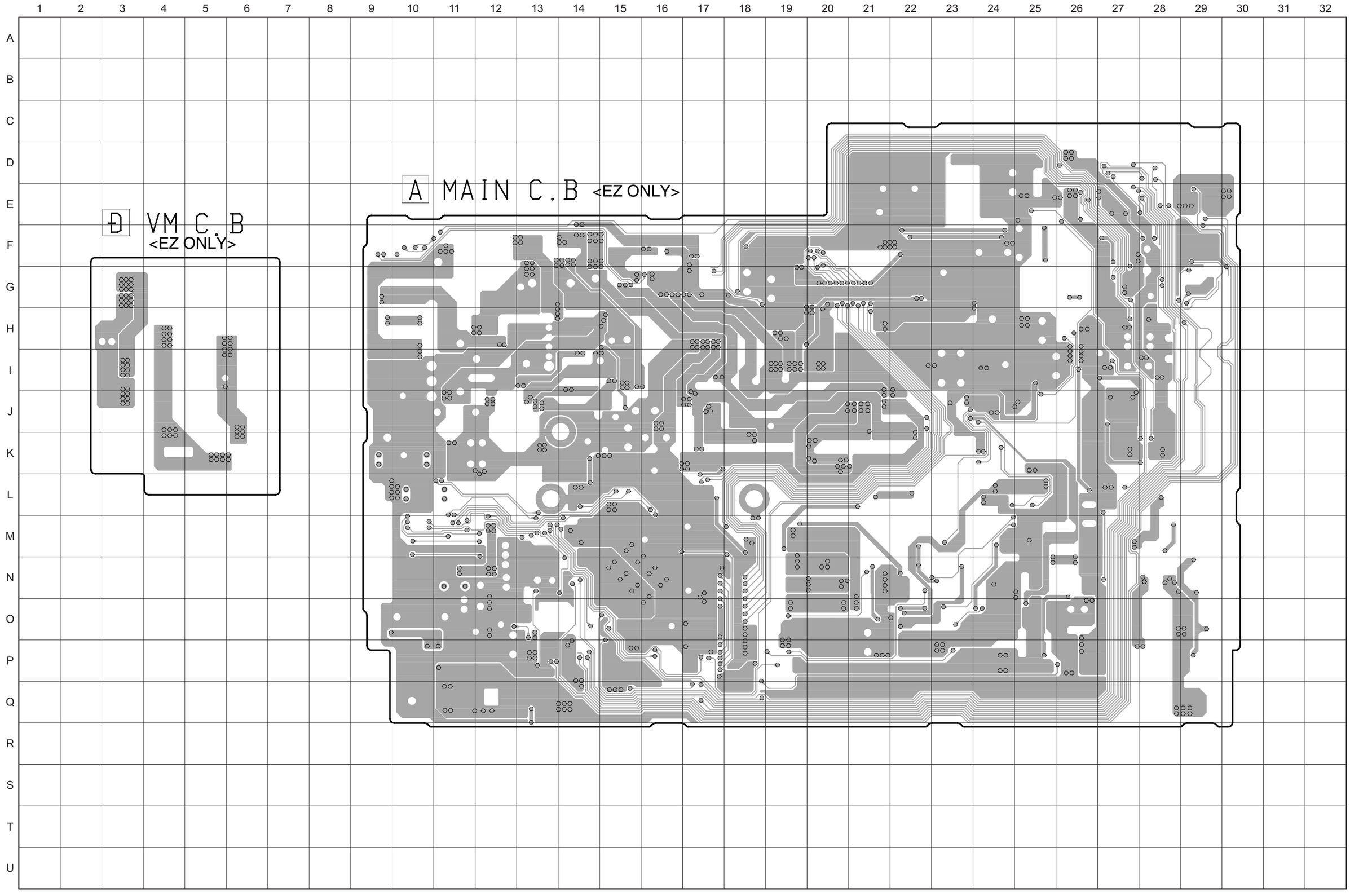
SCHEMATIC DIAGRAM - 1 (U : MAIN 1 / 2 / HP JACK)



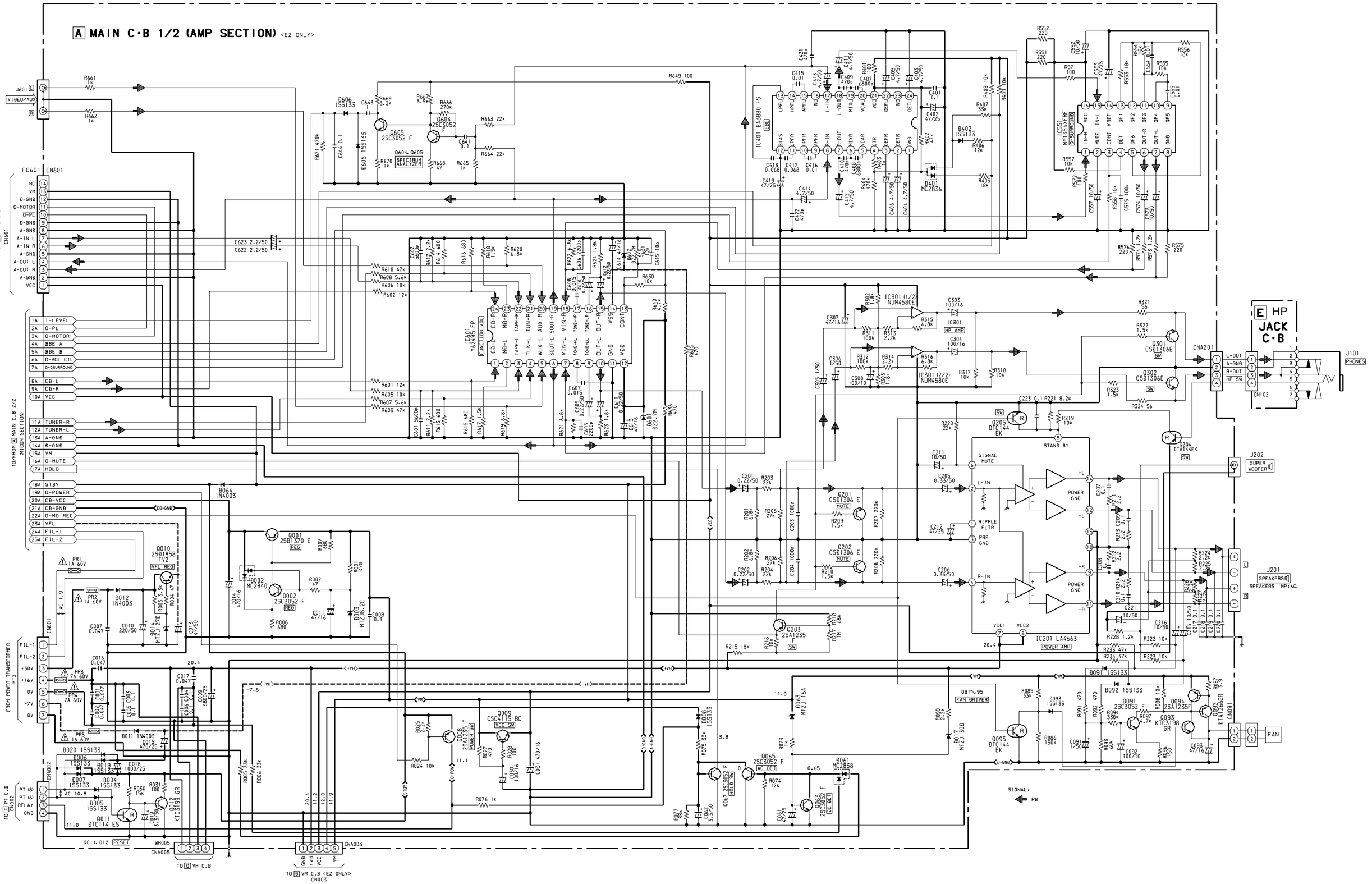

A MAIN C·B 2/2(MICON SECTION) <U ONLY>
IC101 LC876580W-5N98
MICRO CONTROLLER
L101
COIL, CLOCK OSC 9.43MHz
μ-CON OSC ADJ
Q101
CLOCK SHIFT SW
Q102
2SK2158
RESET
Q103
KTC3199
VDD REG
Q104
RT1N141C
POWER SW
Q105
RT1N141C
TU-ON SW
Q106
DTC124EK
Q106, 107
BBE LEVEL
Q107
DTC124EK
Q108
Q109
2SK2158
I-AUTO SW
Q111
2SK2158
D101
1SS133
D104
1SS133
D105
1SS133
IC702
GP1F32T
DIGITAL OUT (OPTICAL)
TO/FROM A MAIN C.B 1/2 (AMP SECTION)
FROM CD MECHANISM TN-CD1001-902M
FROM O TUNER C.B CN701
FROM C TAPE C.B CN902
TO B FRONT C.B CN101
CN904
CN902
CN901
CN905
FC905
FC902
SIGNAL:
PB

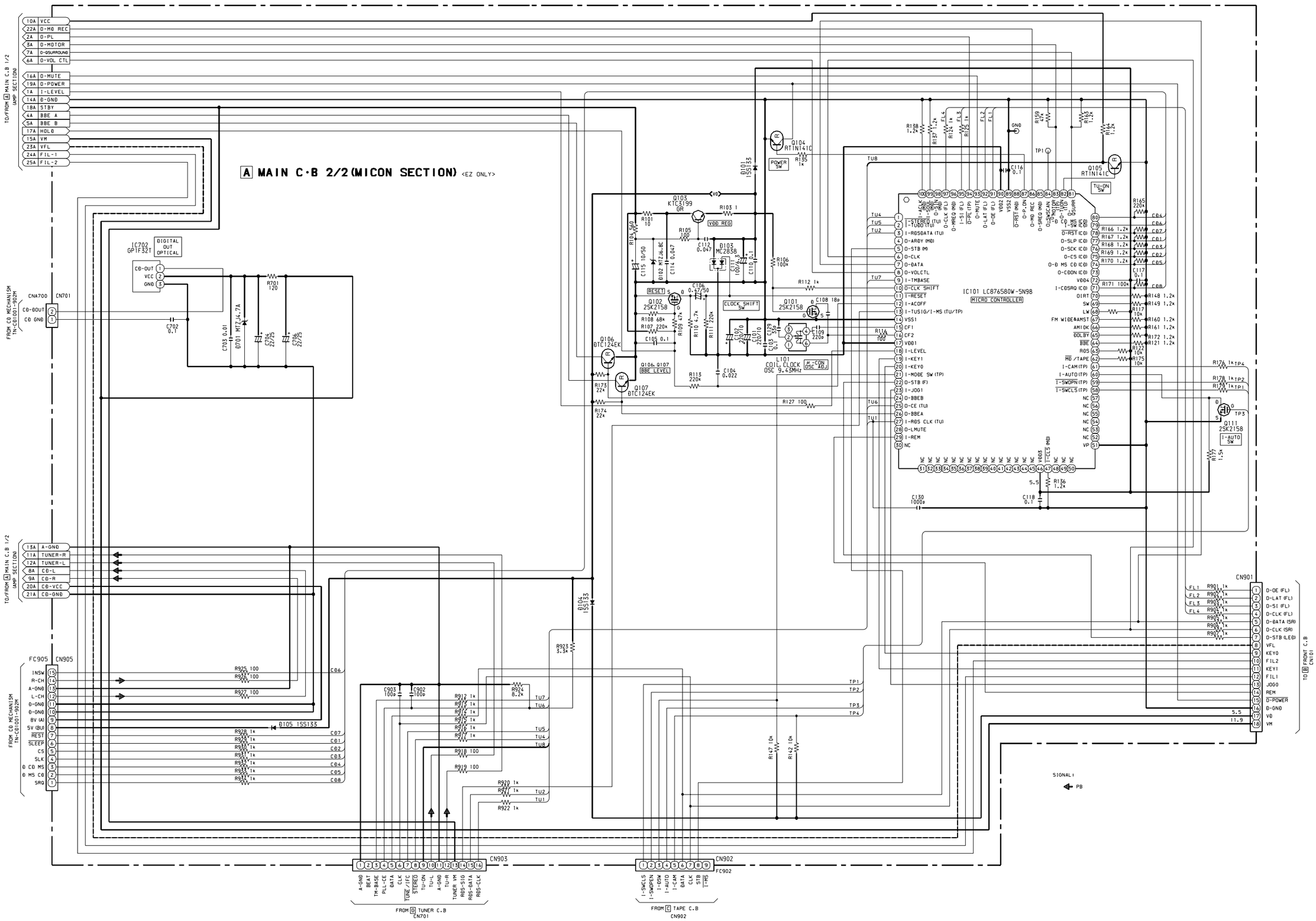
WIRING - 2 (EZ: MAIN/VM) <1/2>

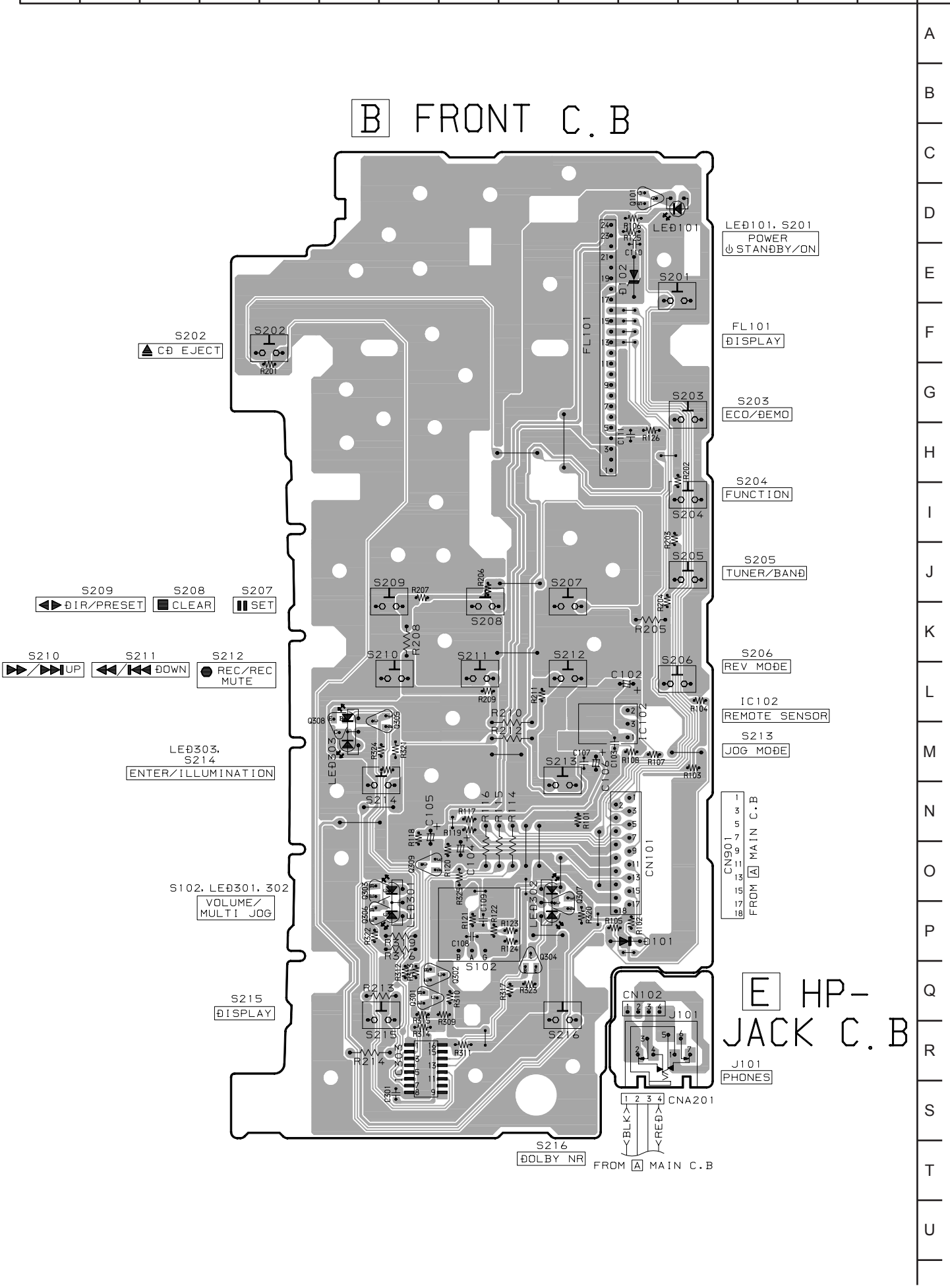


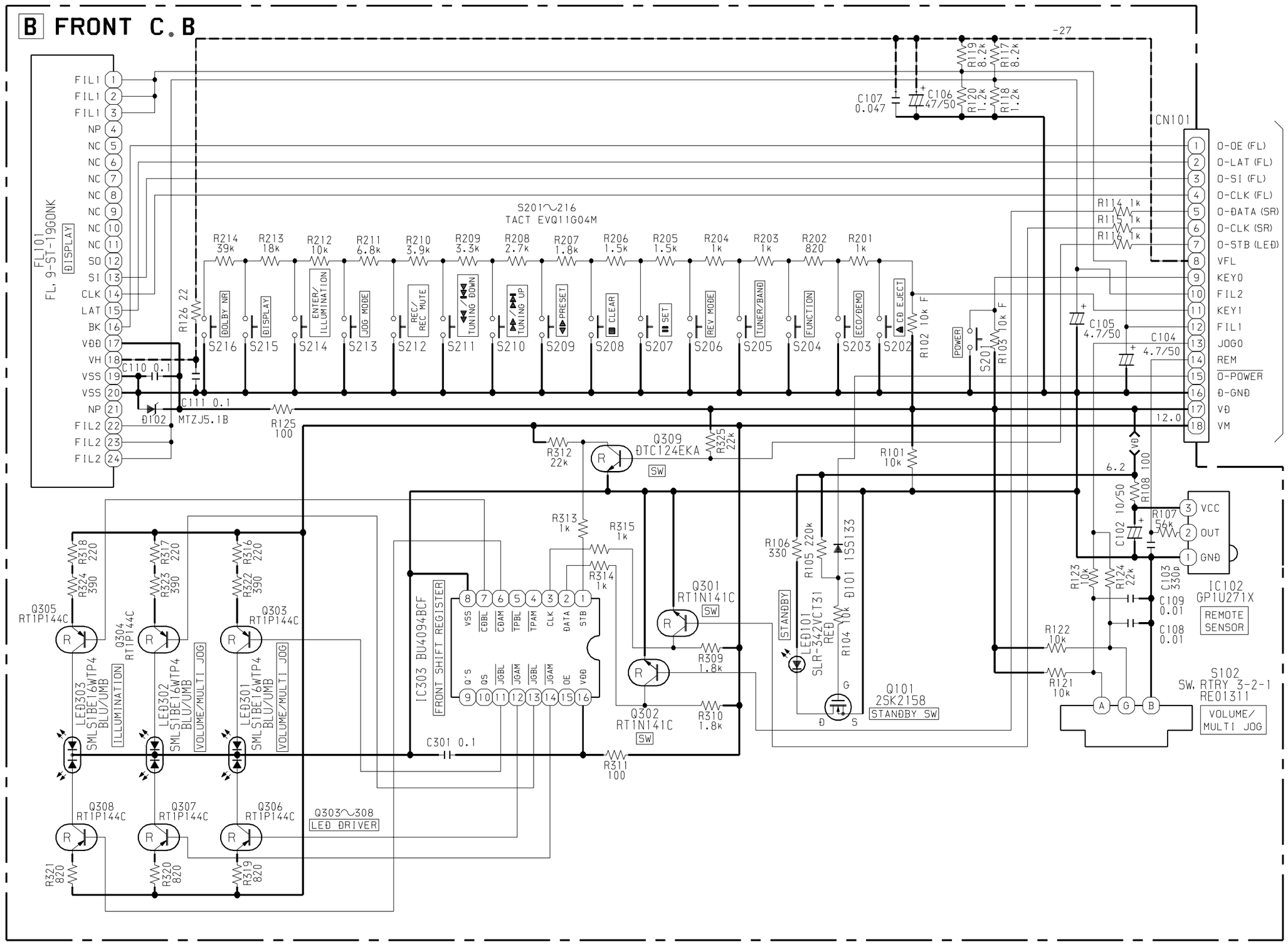

A MAIN C.B <EZ ONLY>
D VM C.B
<EZ ONLY>

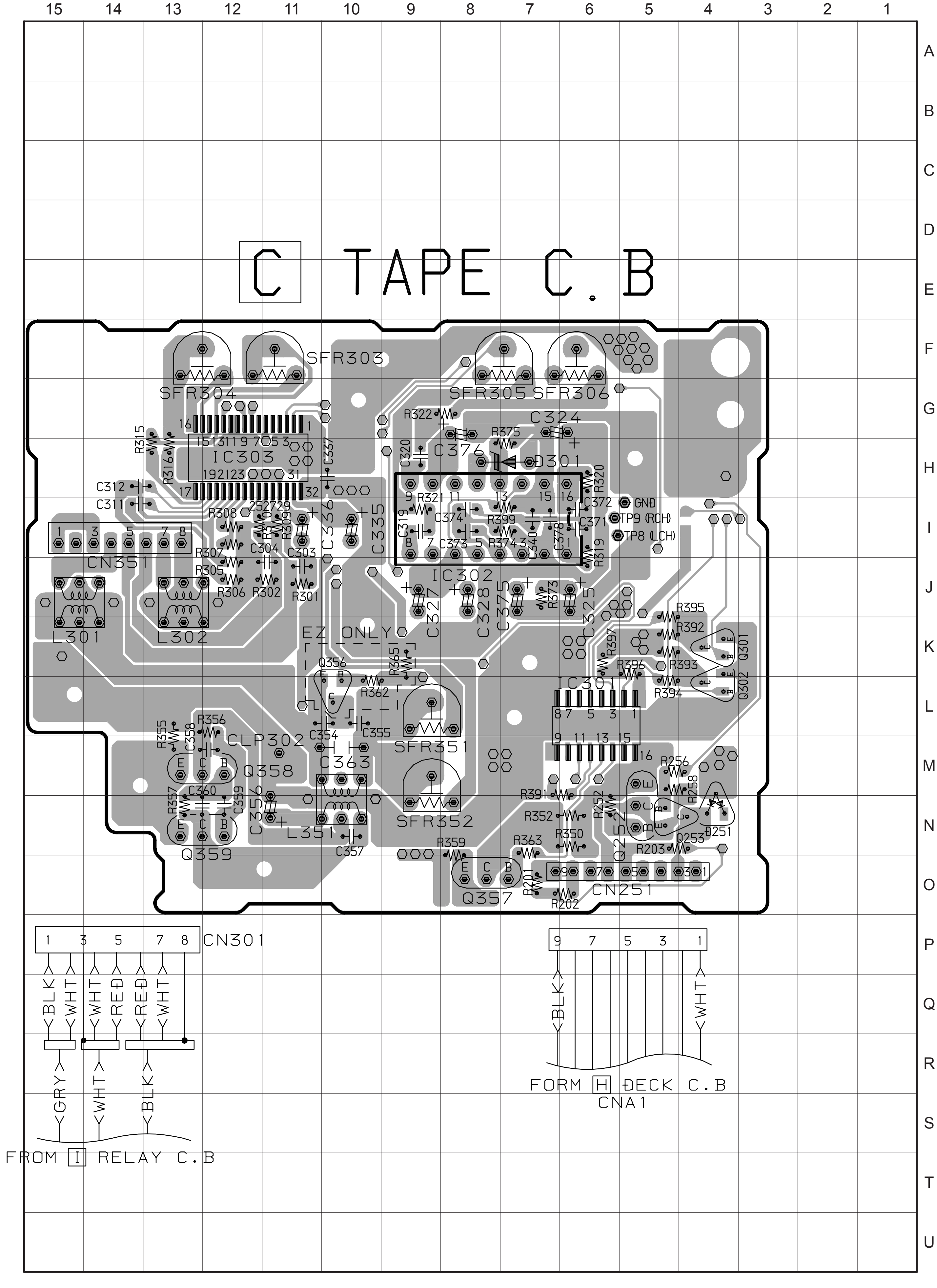
SCHEMATIC DIAGRAM - 3 (EZ : MAIN 1 / 2 / HP JACK)



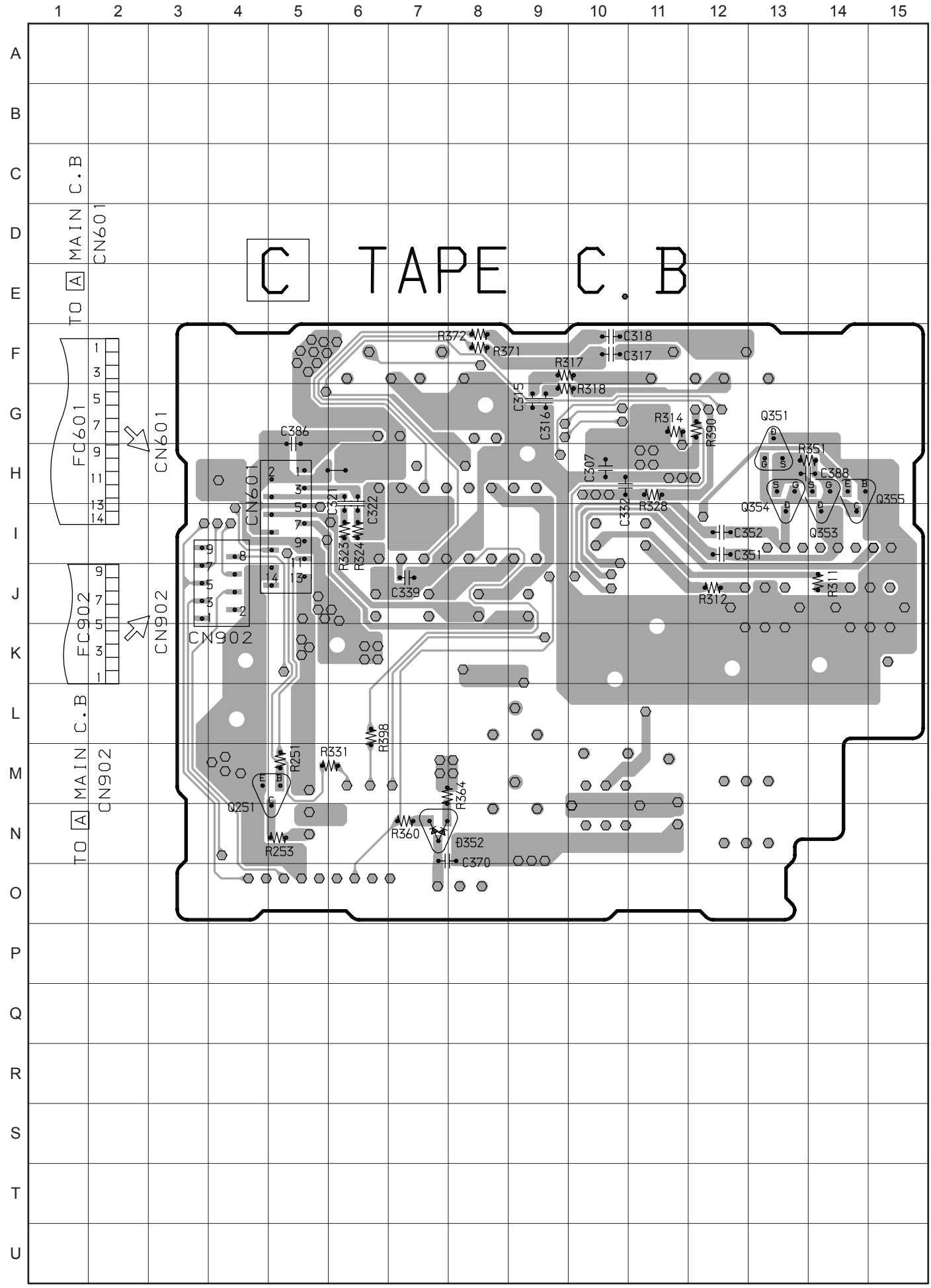

A MAIN C·B 2/2 (MICON SECTION) <EZ ONLY>
TO/FROM A MAIN C.B 1/2 (AMP SECTION)
10A VCC
22A O-M0 REC
2A O-PL
5A O-MOTOR
7A O-SURROUND
6A O-VOL CTL
16A O-MUTE
19A O-POWER
1A I-LEVEL
14A O-GND
18A STBY
4A BBE A
5A BBE B
17A HOLD
15A VM
23A VFL
24A FIL-1
25A FIL-2
IC702 GP1FS32T
DIGITAL OUT OPTICAL
CD-DOUT
VCC
GND
FROM CD MECHANISM TM-CD1001-5N2M
CN700
CN701
CD-DOUT
CD GND
C702 0.1
C703 0.01
D701 MTZJ4.7A
C704 22/25
C706 22/25
R701 120
IC101 LC876580W-5N98
MICRO CONTROLLER
Q101 2SK2158
Q102 2SK2158
Q103 KTC3199 GR
Q104 RTN141C
POWER SW
Q105 RTN141C
TU-ON SW
Q106 DTC124EK
Q107 DTC124EK
Q106, Q107 BBE LEVEL
Q111 2SK2158
I-AUTO SW
D101 1SS133
D102 MTZJ6.8C
D103 MC2858
D104 1SS133
D105 1SS133
L101 COIL, CLOCK OSC 9.43MHz
H-CON OSC ADJ
RESET
CLOCK SHIFT SW
VDD REG
C101 470/50
C102 220/10
C103 220/10
C104 0.022
C105 0.1
C106 0.47/50
C107 0.1
C108 18p
C109 220p
C110 0.1
C111 1000p
C112 0.047
C114 0.047
C115 10/50
C116 0.1
C117 0.1
C118 0.1
C119 330
C130 1000p
R101 10
R102 680
R103 1
R104 680
R105 100
R106 100k
R107 220k
R108 68k
R109 47k
R110 4.7k
R111 220k
R112 1k
R113 220k
R114 100
R117 10k
R122 10k
R127 109
R135 1k
R136 1.2k
R142 10k
R147 10k
R158 1.2k
R159 1.2k
R162 1.5k
R163 1.2k
R165 220k
R166 1.2k
R167 1.2k
R168 1.2k
R169 1.2k
R170 1.2k
R171 100k
R172 1.2k
R173 22k
R174 22k
R175 10k
R176 1k
R177 1.5k
R178 1k
R901 1k
R902 1k
R903 1k
R904 1k
R905 1k
R906 1k
R907 1k
R908 1k
R909 1k
R910 1k
R911 1k
R912 1k
R913 1k
R914 1k
R915 1k
R916 1k
R917 1k
R918 100
R919 100
R920 1k
R921 1k
R922 1k
R923 3.3k
R924 8.2k
R925 100
R926 100
R927 100
R928 1k
R929 1k
R930 1k
R931 1k
R932 1k
R933 1k
R934 1k
C901 100p
C902 100p
C903 100p
TP1
TP2
TP3
TP4
TU1
TU2
TU4
TU5
TU6
TU7
TU8
CD1
CD2
CD3
CD4
CD5
CD6
CD7
CD8
FC905
CN905
INSW
R-CH
A-GND
L-CH
D-GND
D-GND
8V (A)
5V (BU)
REST
SLEEP
CS
SLK
D CD MS
D MS CD
SRQ
13A A-GND
11A TUNER-R
12A TUNER-L
8A CD-L
9A CD-R
20A CD-VCC
21A CD-GND
CN903
A-GND
BEAT
TM-BASE
PLL-CE
DATA
CLK
TONE/IFC
STEREO
TU-ON
TU-L
A-GND
TU-R
TUNER SIG
RDS-SIG
RDS-DATA
RDS-CLK
FROM D TUNER C.B CN701
CN902
FC902
I-SWCLS
I-SWOPEN
I-DSW
I-AUTO
I-CAM
DATA
CLK
STB
T-MS
FROM C TAPE C.B CN902
CN901
D-OE (FL)
D-LAT (FL)
D-SI (FL)
D-CLK (FL)
D-DATA (SR)
D-CLK (SR)
D-STB (LED)
VFL
KEY0
FIL2
KEY1
FIL1
JOG0
REM
D-POWER
D-GND
VD
VM
TO B FRONT C.B CN101
SIGNAL:
PB


B FRONT C.B
LEÐ101, S201
POWER
⏻ STANÐBY/ON
S201
FL101
ÐISPLAY
S203
ECO/ÐEMO
S204
FUNCTION
S205
TUNER/BANÐ
S206
REV MOÐE
IC102
REMOTE SENSOR
S213
JOG MOÐE
CN901
FROM A MAIN C.B
S202
CÐ EJECT
S209
ÐIR/PRESET
S208
CLEAR
S207
SET
S210
UP
S211
ÐOWN
S212
REC/REC MUTE
LEÐ303, S214
ENTER/ILLUMINATION
S102, LEÐ301, 302
VOLUME/ MULTI JOG
S215
ÐISPLAY
S216
ÐOLBY NR
CNA201
BLK
REÐ
FROM A MAIN C.B
E HP-JACK C.B
CN102
J101
J101
PHONES

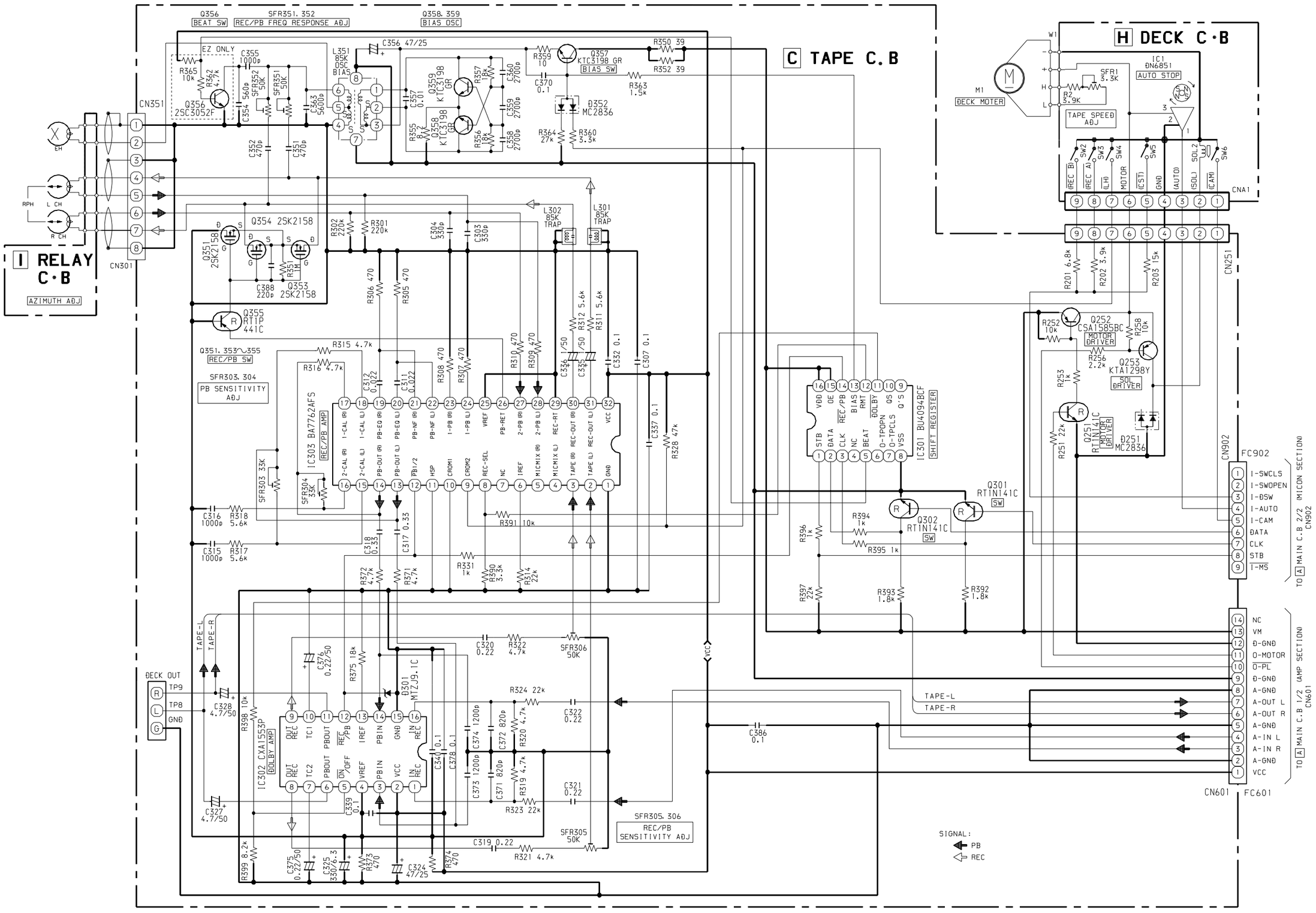

B FRONT C.B
FL101
FL. 9-ST-190ONK
DISPLAY
FIL1
FIL1
FIL1
NP
NC
NC
NC
NC
NC
NC
SO
SI
CLK
LAT
BK
VĐĐ
VH
VSS
VSS
NP
FIL2
FIL2
FIL2
S201~216
TACT EVQ11G04M
R214 39k
R213 18k
R212 10k
R211 6.8k
R210 3.9k
R209 3.3k
R208 2.7k
R207 1.8k
R206 1.5k
R205 1.5k
R204 1k
R203 1k
R202 820
R201 1k
R126 22
DOLBY NR
DISPLAY
ENTER/ ILLUMINATION
JOG MODE
REC/ REC MUTE
TUNING DOWN
TUNING UP
PRESET
CLEAR
SET
REV MODE
TUNER/BAND
FUNCTION
ECO/DEMO
CD EJECT
S216
S215
S214
S213
S212
S211
S210
S209
S208
S207
S206
S205
S204
S203
S202
R102 10k F
POWER
S201
R103 10k F
C110 0.1
C111 0.1
Đ102
MTZJ5.1B
R125 100
C107 0.047
C106 47/50
R119 8.2k
R117 8.2k
R120 1.2k
R118 1.2k
-27
CN101
O-OE (FL)
O-LAT (FL)
O-SI (FL)
O-CLK (FL)
O-ĐATA (SR)
O-CLK (SR)
O-STB (LEĐ)
VFL
KEY0
FIL2
KEY1
FIL1
JOGO
REM
O-POWER
Đ-GNĐ
VĐ
VM
FROM A MAIN C.B 2/2 (MICON SECTION)
CN901
R114 1k
R115 1k
R116 1k
C105 4.7/50
C104 4.7/50
12.0
6.2
VĐ
R108 100
C102 10/50
R107 56k
VCC
OUT
GNĐ
IC102
GP1U271X
REMOTE SENSOR
C103 330p
C109 0.01
C108 0.01
R123 10k
R124 22k
R122 10k
R121 10k
S102
SW, RTRY 3-2-1
RE01311
VOLUME/ MULTI JOG
A
G
B
Q309
ĐTC124EKA
SW
R312 22k
R325 22k
R101 10k
R313 1k
R315 1k
R314 1k
R309 1.8k
R310 1.8k
Q301
RT1N141C
SW
Q302
RT1N141C
SW
IC303 BU4094BCF
FRONT SHIFT REGISTER
VSS
CĐBL
CĐAM
TPBL
TPAM
CLK
ĐATA
STB
Q'S
QS
JGBL
JGAM
JGBL
JGAM
OE
VĐĐ
C301 0.1
R311 100
R106 330
R105 220k
STANĐBY
LED101
SLR-342VCT31
RED
Đ101 1SS133
R104 10k
Q101
2SK2158
STANĐBY SW
Đ
G
S
Q305
RT1P144C
Q304
RT1P144C
Q303
RT1P144C
R318 220
R317 220
R316 220
R324 390
R323 390
R322 390
LEĐ303
SML-S1BE16WTP4
BLU/UMB
ILLUMINATION
LEĐ302
SML-S1BE16WTP4
BLU/UMB
VOLUME/MULTI JOG
LEĐ301
SML-S1BE16WTP4
BLU/UMB
VOLUME/MULTI JOG
Q308
RT1P144C
Q307
RT1P144C
Q306
RT1P144C
Q303~308
LEĐ ĐRIVER
R321 820
R320 820
R319 820

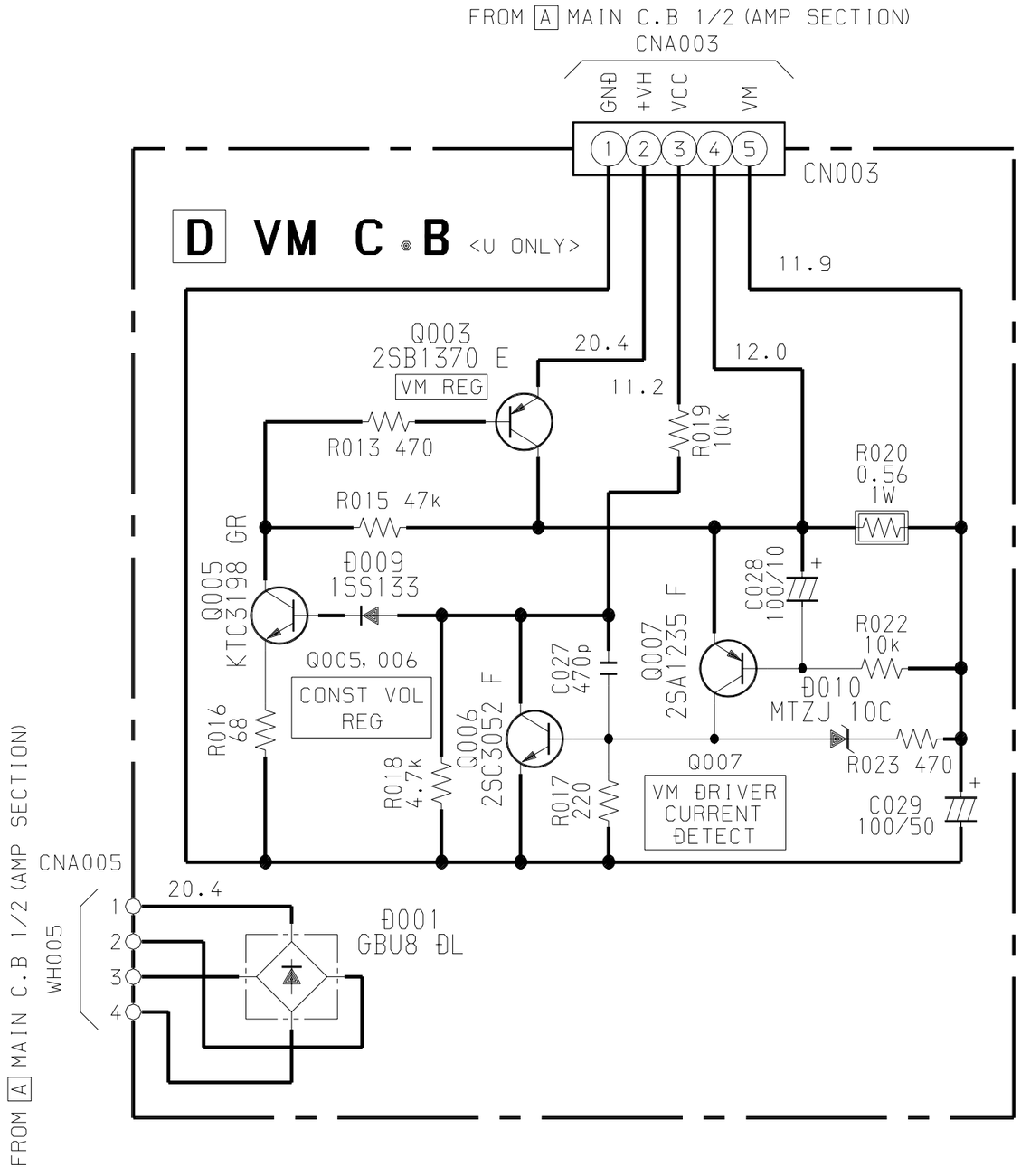

C TAPE C.B
SFR303
SFR304
SFR305
SFR306
IC303
IC302
IC301
CN351
CN251
CN301
L301
L302
L351
D301
D251
Q356
Q357
Q358
Q359
Q301
Q302
Q253
SFR351
SFR352
CLP302
EZ ONLY
GND
TP9 (RCH)
TP8 (LCH)
BLK
WHT
RED
GRY
FROM I RELAY C.B
FORM H DECK C.B
CNA1

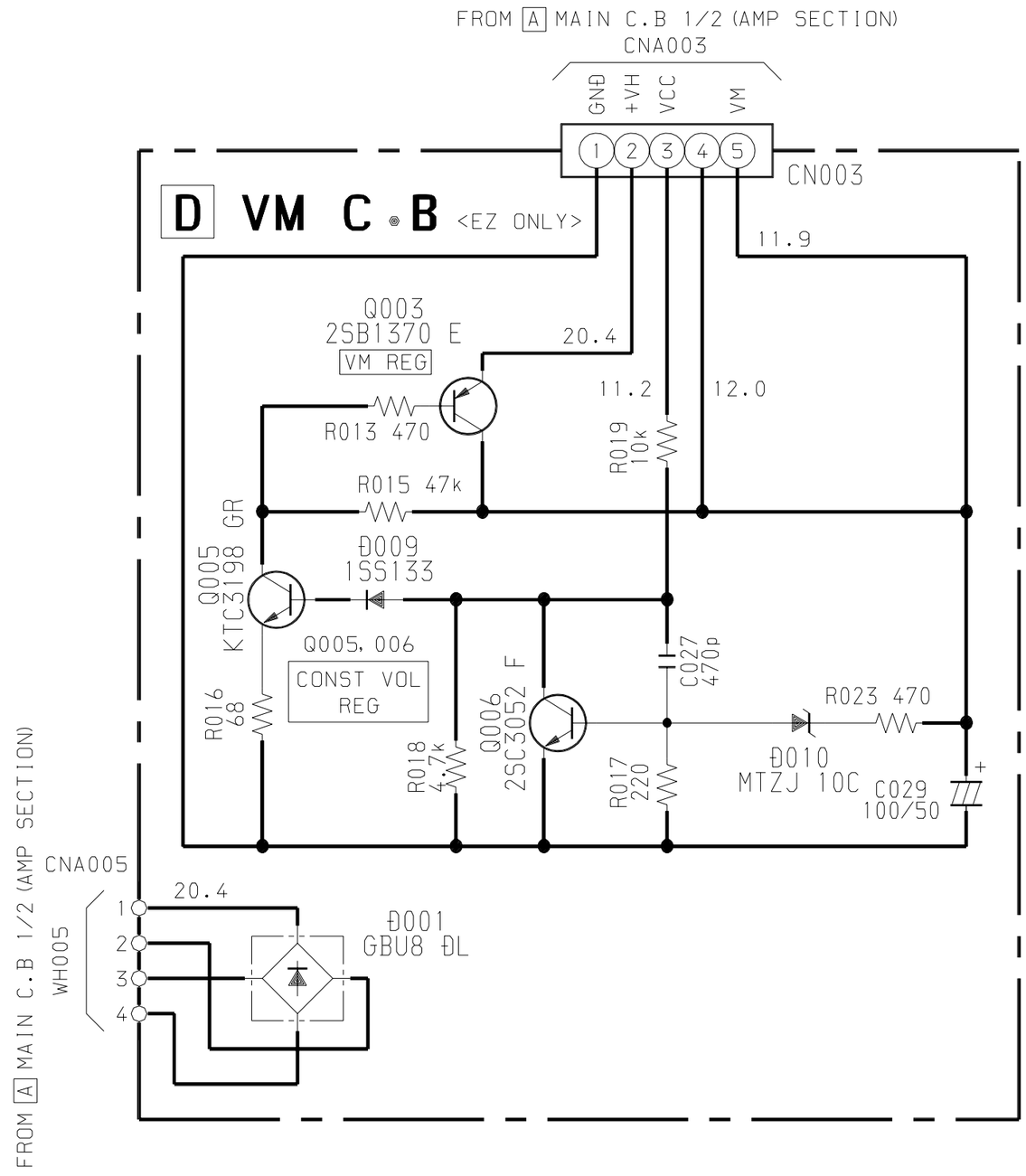
WIRING - 4 (TAPE) <2/2>

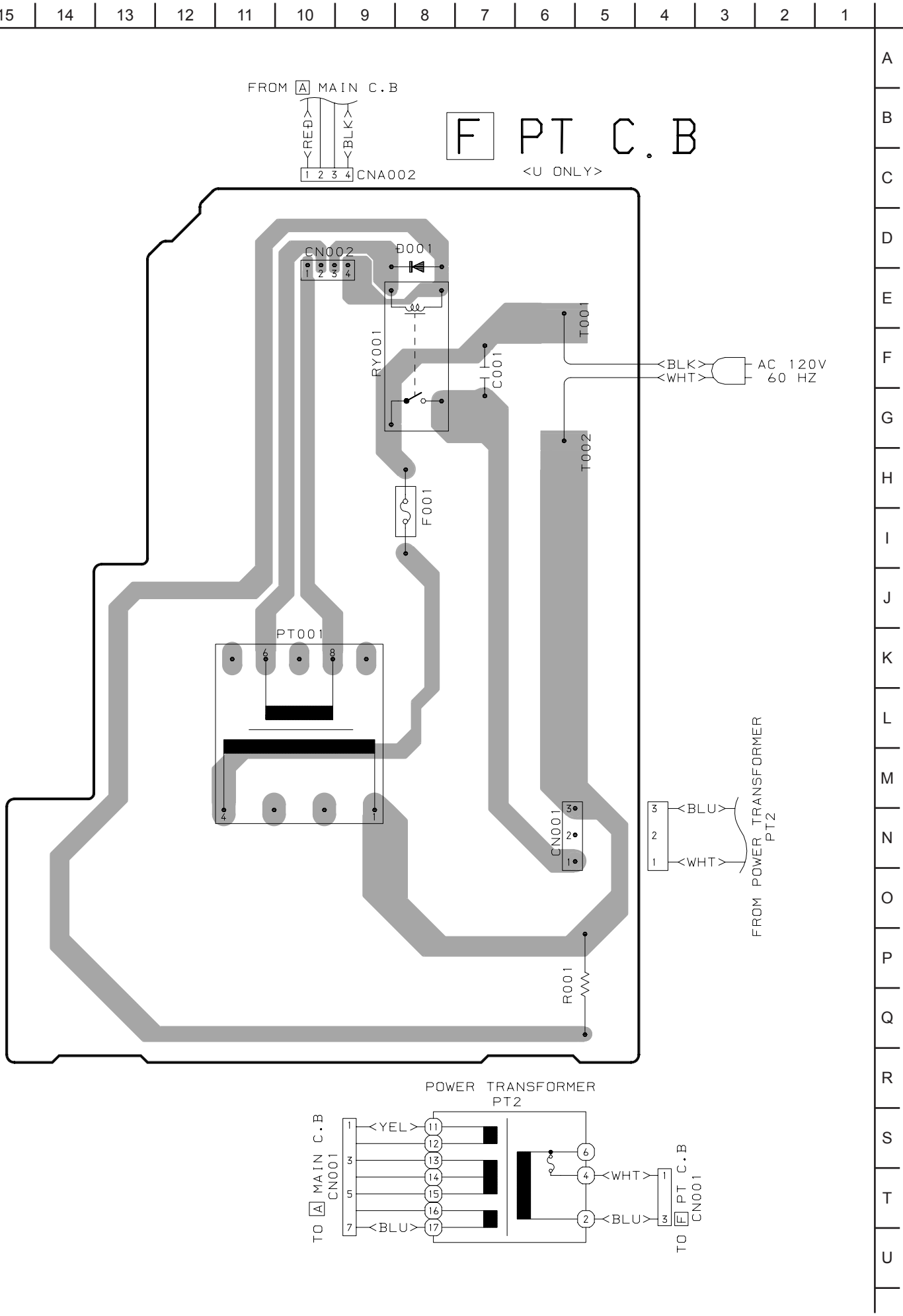


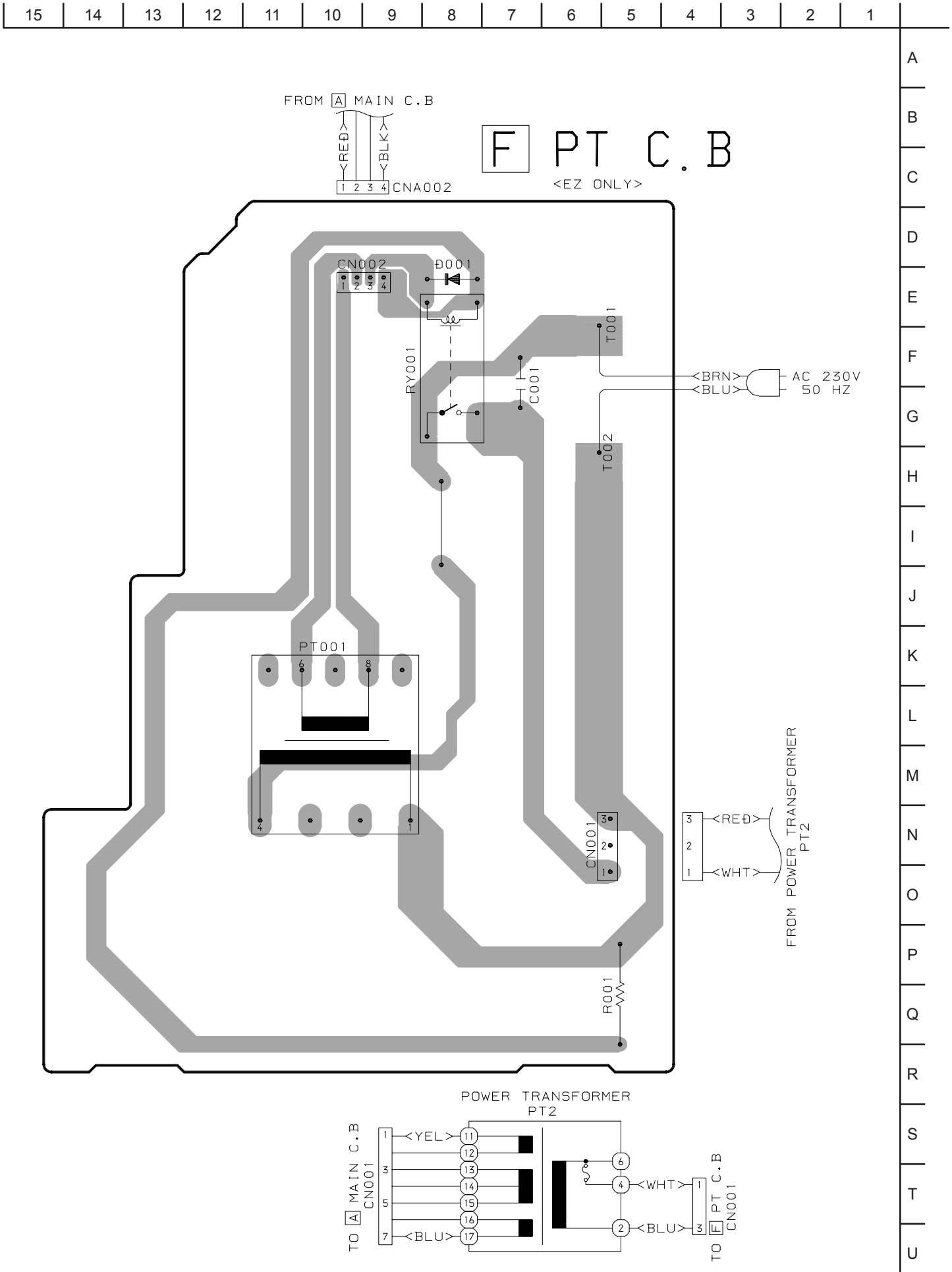
SCHEMATIC DIAGRAM - 6 (TAPE / DECK / RELAY)



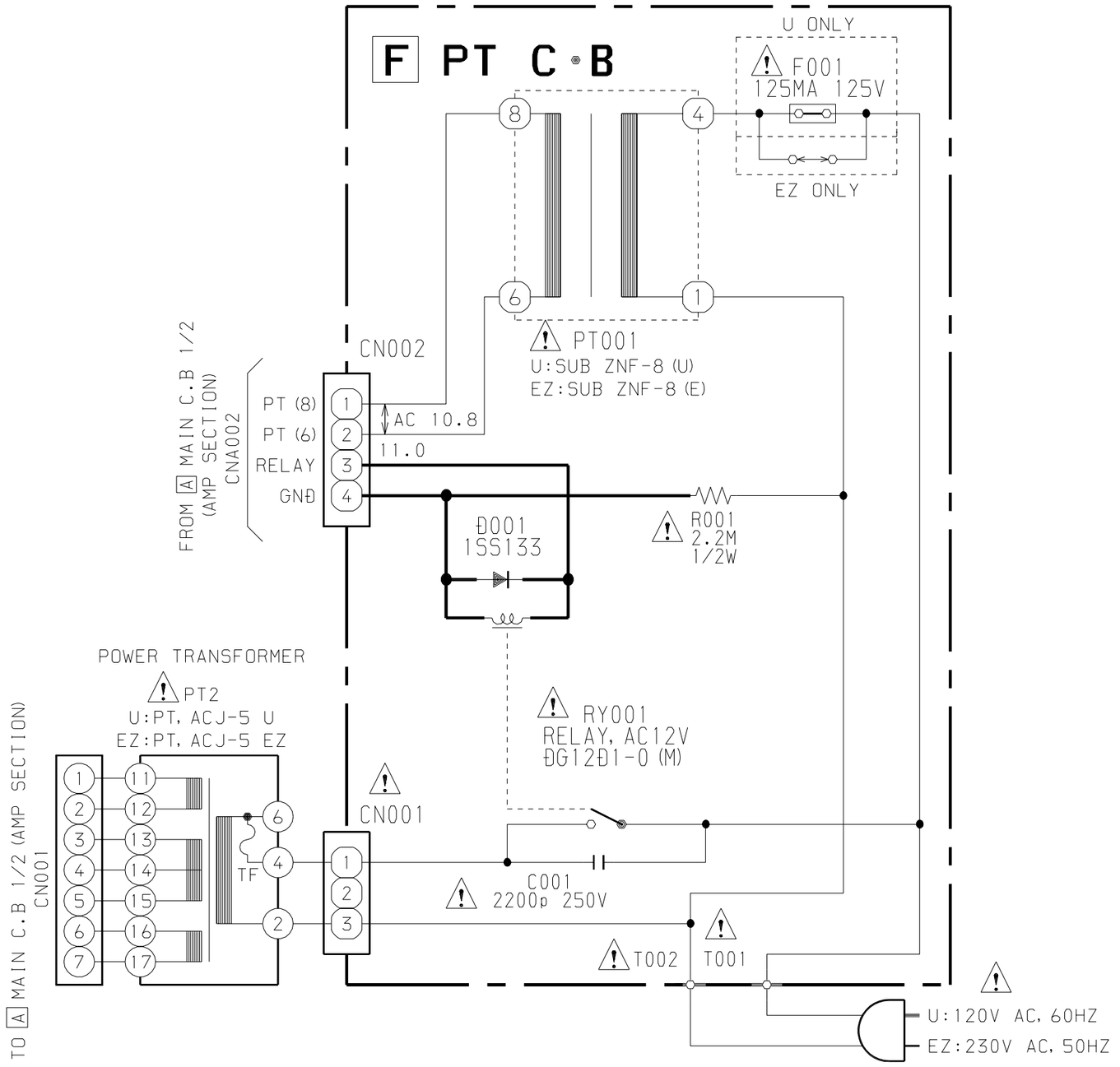

FROM A MAIN C.B 1/2 (AMP SECTION)
CNA003
GND
+VH
VCC
VM
1 2 3 4 5
CN003
D VM C.B <U ONLY>
11.9
Q003
2SB1370 E
VM REG
20.4
11.2
12.0
R013 470
R019 10k
R020 0.56 1W
R015 47k
Q005 KTC3198 GR
Đ009 1SS133
C028 100/10
Q007 2SA1235 F
R022 10k
Q005, 006
CONST VOL REG
C027 470p
Đ010 MTZJ 10C
R016 68
Q006 2SC3052 F
R018 4.7k
R017 220
Q007
VM ĐRIVER CURRENT ĐETECT
R023 470
C029 100/50
CNA005
WH005
20.4
Đ001 GBU8 ĐL
FROM A MAIN C.B 1/2 (AMP SECTION)


FROM A MAIN C.B 1/2 (AMP SECTION)
CNA003
GND
+VH
VCC
VM
1 2 3 4 5
CN003
D VM C.B <EZ ONLY>
11.9
Q003
2SB1370 E
VM REG
20.4
11.2
12.0
R013 470
R019 10k
R015 47k
Q005 KTC3198 GR
Đ009 1SS133
Q005, 006
CONST VOL REG
C027 470p
R023 470
R016 68
R018 4.7k
Q006 2SC3052 F
R017 220
Đ010 MTZJ 10C
C029 100/50
CNA005
WH005
20.4
Đ001 GBU8 ĐL
FROM A MAIN C.B 1/2 (AMP SECTION)

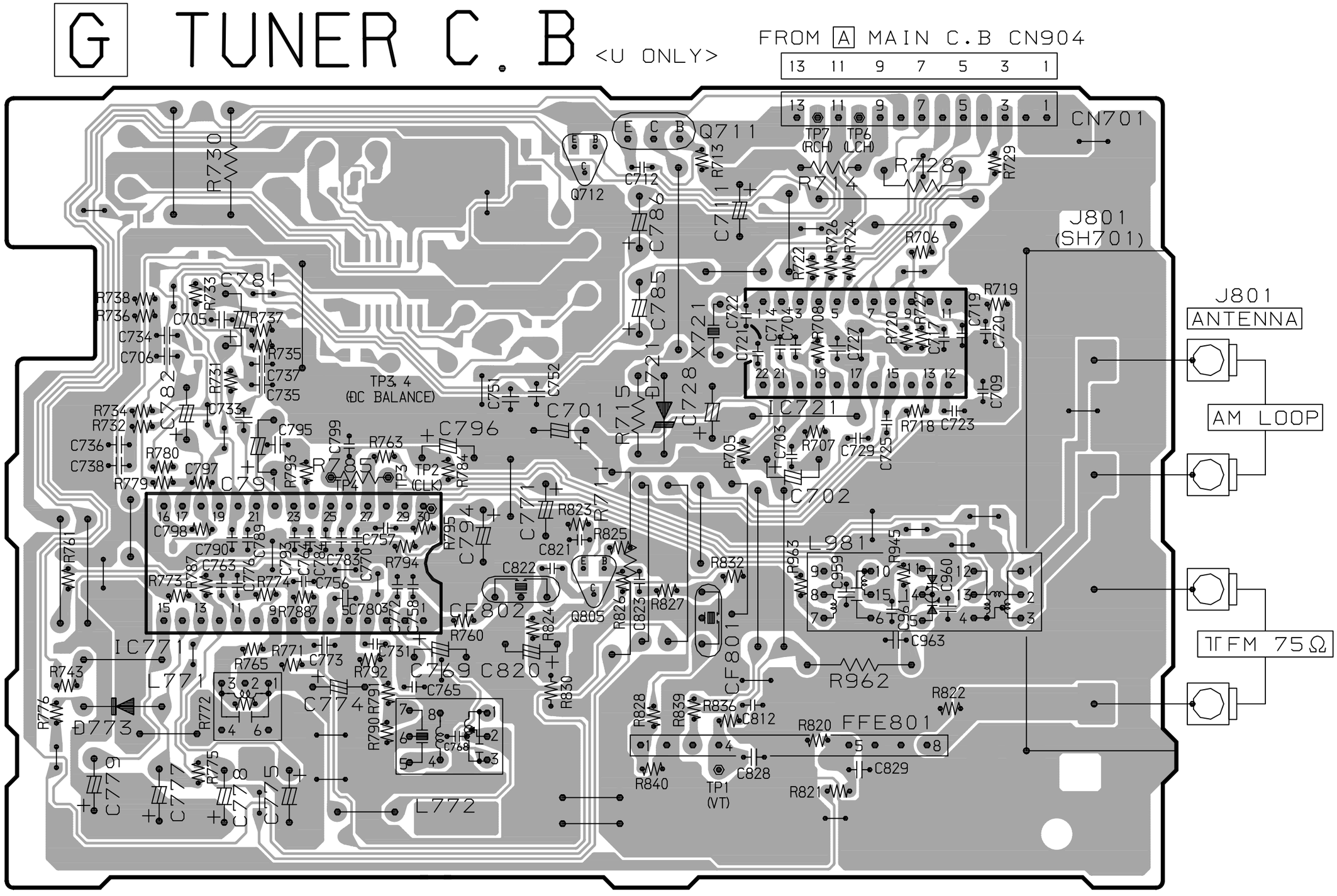

FROM A MAIN C.B
RED
BLK
1 2 3 4 CNA002
F PT C.B
<U ONLY>
CN002
D001
RY001
C001
T001
T002
BLK
WHT
AC 120V
60 HZ
F001
PT001
CN001
BLU
WHT
FROM POWER TRANSFORMER
PT2
R001
POWER TRANSFORMER
PT2
TO A MAIN C.B
CN001
YEL
BLU
WHT
BLU
TO F PT C.B
CN001


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
FROM A MAIN C.B
RED
BLK
1 2 3 4 CNA002
F PT C.B
<EZ ONLY>
CN002
D001
RY001
C001
T001
T002
BRN
BLU
AC 230V
50 HZ
PT001
CN001
RED
WHT
FROM POWER TRANSFORMER
PT2
R001
POWER TRANSFORMER
PT2
TO A MAIN C.B
CN001
YEL
BLU
WHT
TO F PT C.B
CN001

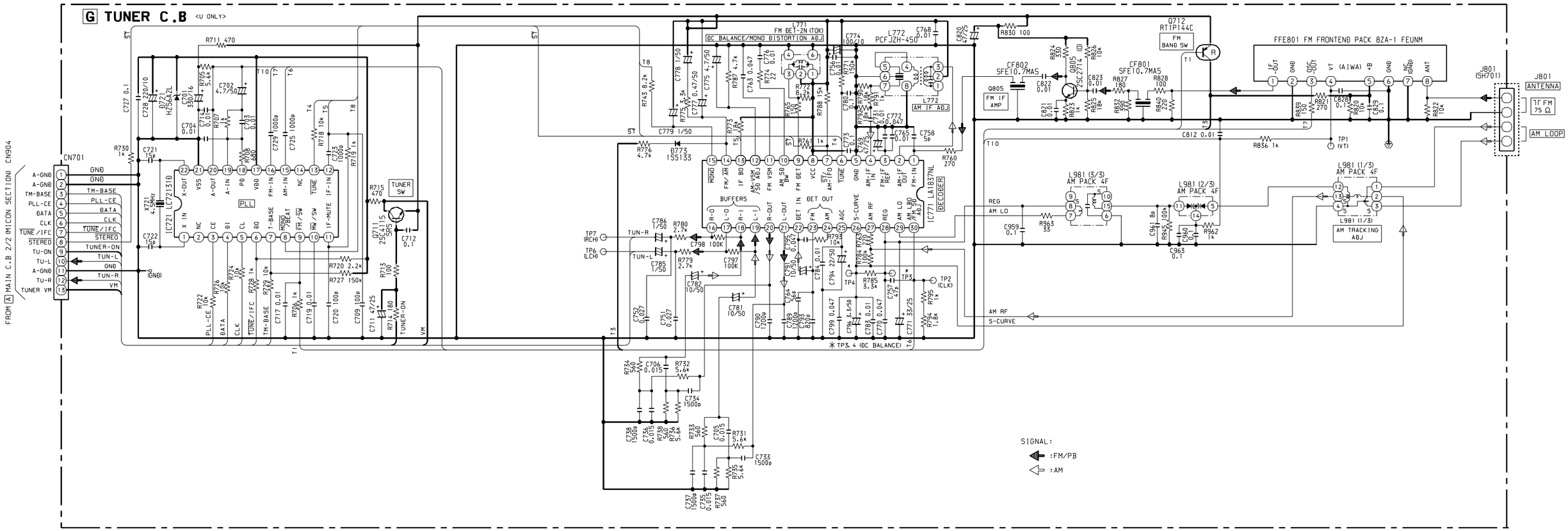
SCHEMATIC DIAGRAM - 8 (PT)



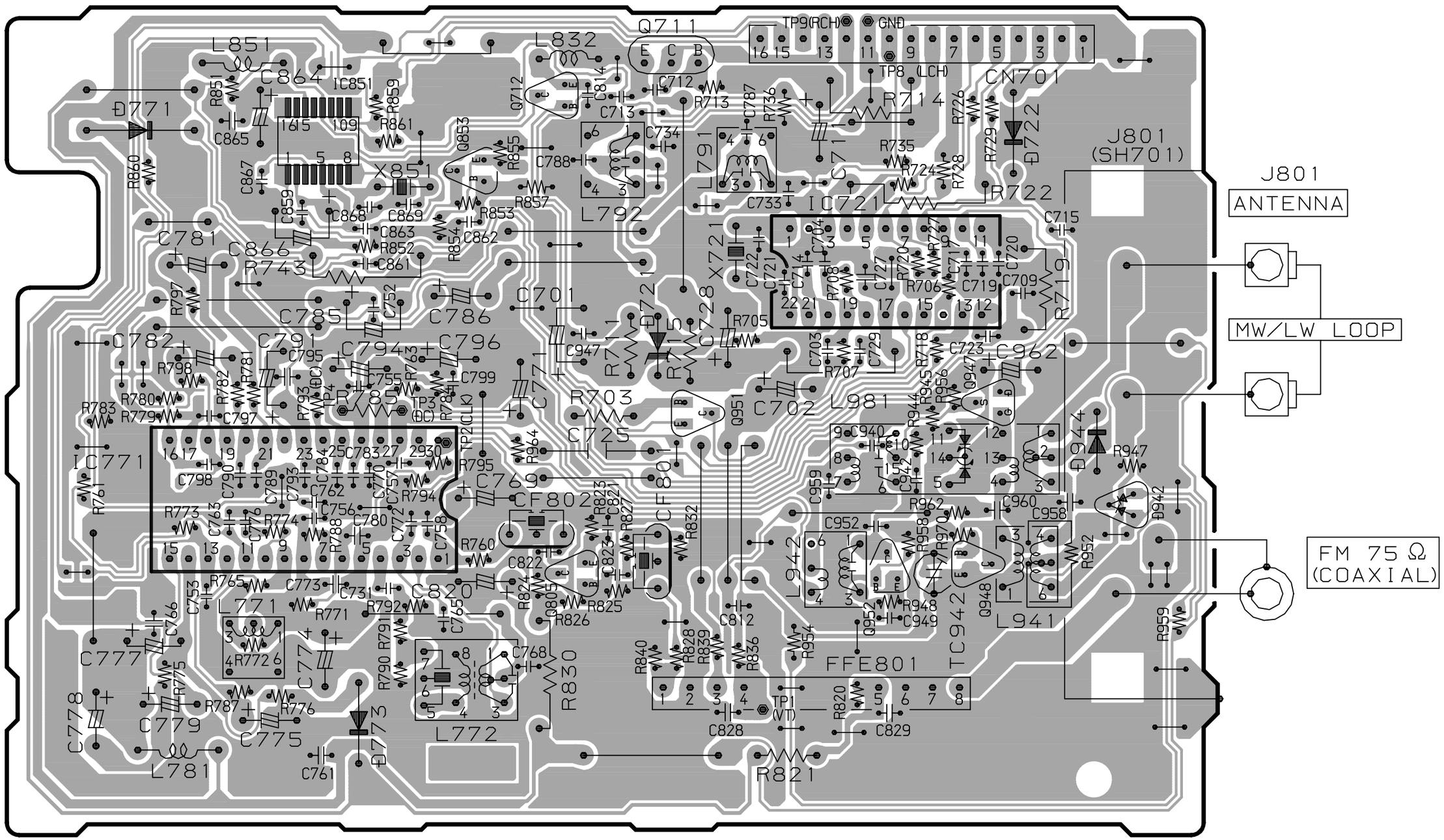
G TUNER C.B <U ONLY>



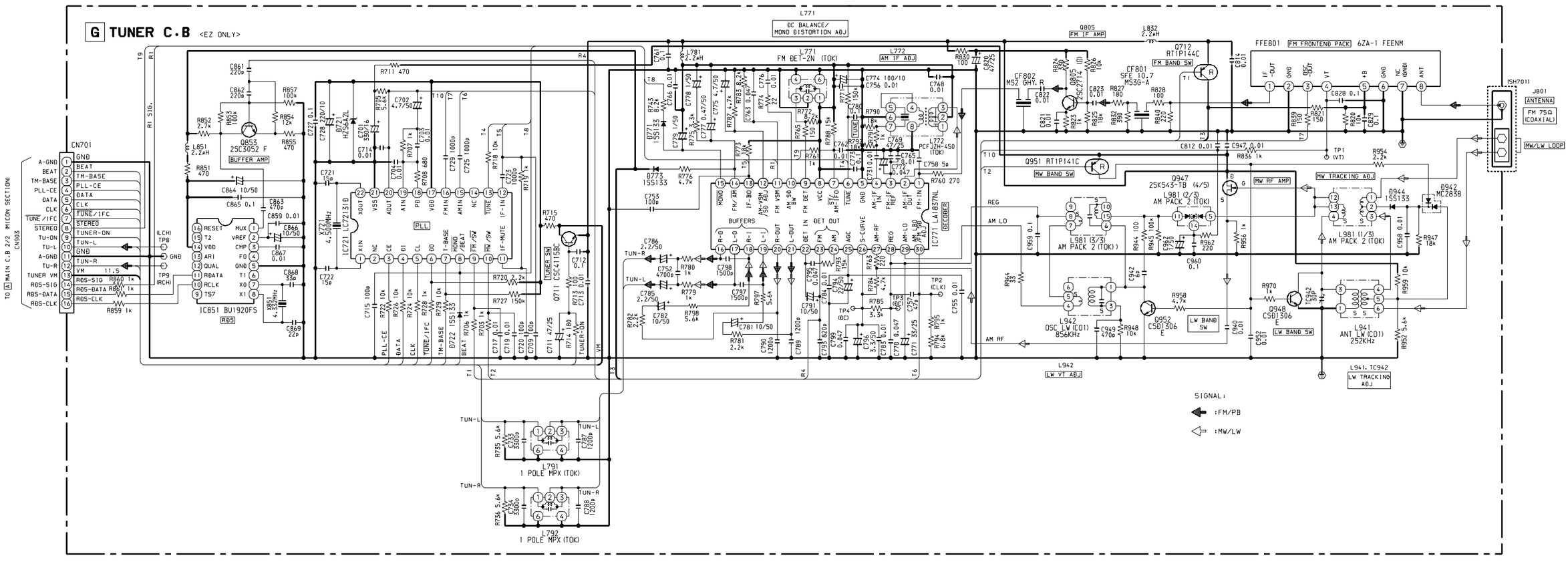
SCHEMATIC DIAGRAM - 9 (U : TUNER)



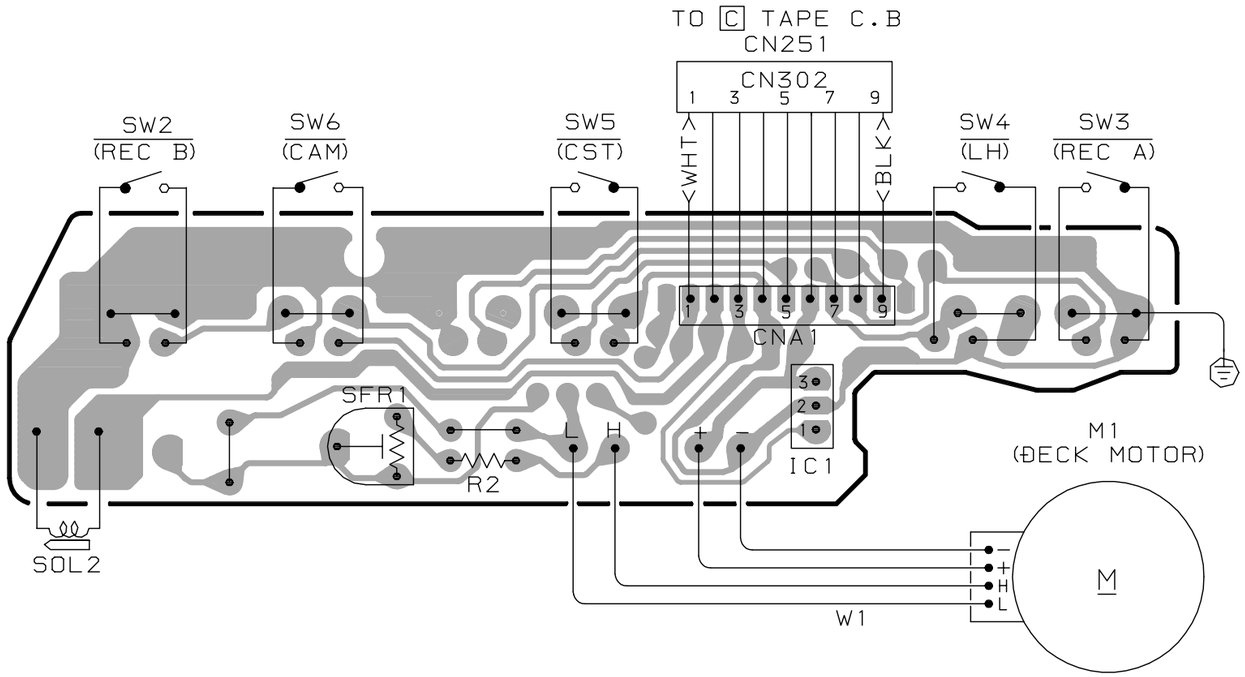
G TUNER C.B <EZ ONLY>


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
CN903
16 15 13 11 9 7 5 3 1
TO A MAIN C.B CN903
TP9(RCH)
GND
TP8 (LCH)
CN701
J801 (SH701)
J801
ANTENNA
MW/LW LOOP
FM 75 Ω (COAXIAL)
L851
C864
IC851
R851
R859
R861
D771
C865
R860
C867
X851
Q853
R855
C859
C868
C869
R853
R857
C863
R852
R854
C862
C861
C781
C866
R743
C752
R797
C785
C786
C701
C782
C791
C794
C796
C795
R798
R781
R782
R780
R779
R783
C797
R793
R785
R763
C755
C799
TP3 (DC)
TP2(CLK)
TP4 (DC)
R795
IC771
C798
C790
C789
C793
C784
C762
C783
C770
C757
R794
C769
R773
C763
C776
R774
C756
R788
C780
C772
C758
R761
R760
C753
R765
C773
C731
C820
L771
R771
R792
C765
C766
C777
R775
R772
C774
R791
R790
C768
C778
R787
R776
C779
C775
D773
L772
R830
L781
C761
L832
Q711
E C B
Q712
C814
C712
R713
C713
C734
C788
L792
L791
C787
R736
C711
R714
R726
D722
R729
R735
R728
R724
R722
C733
IC721
X721
C715
C704
C722
C721
C714
R708
C727
R720
R727
R706
C710
C719
C720
C709
R719
C728
R705
D721
R711
R715
C947
C771
C703
R707
C729
R718
C723
C962
Q947
R945
R956
R944
C702
L981
R703
Q951
C725
R964
CF802
R823
C821
R827
CF801
R832
C822
Q805
C823
R824
R825
R826
C940
C941
C942
C959
R962
C960
C958
D944
R947
D942
C952
R958
R970
L942
Q952
R948
C949
TC942
Q948
L941
R952
R959
C812
R840
R828
R839
R836
R954
FFE801
TP1 (VT)
R820
C828
C829
R821

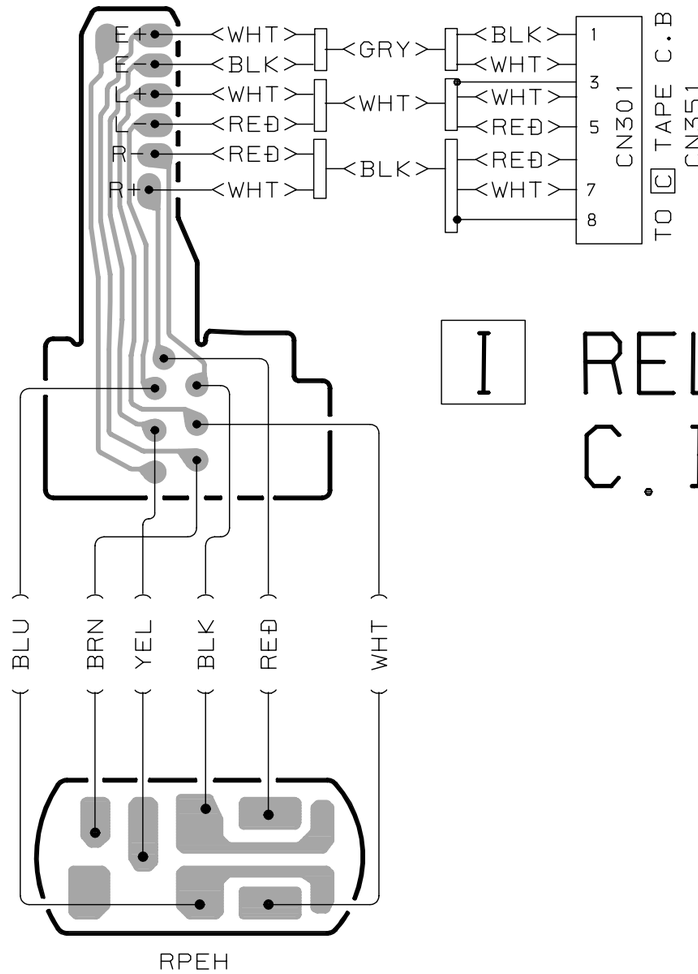
SCHEMATIC DIAGRAM - 10 (EZ : TUNER)



H ĐECK C.B

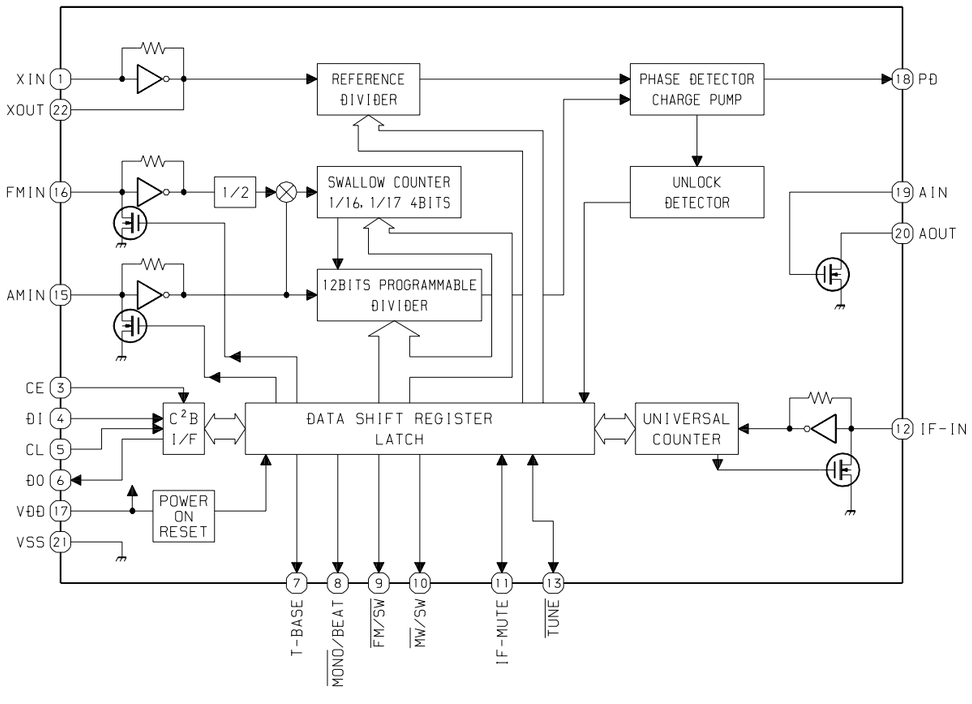


I RELAY C.B

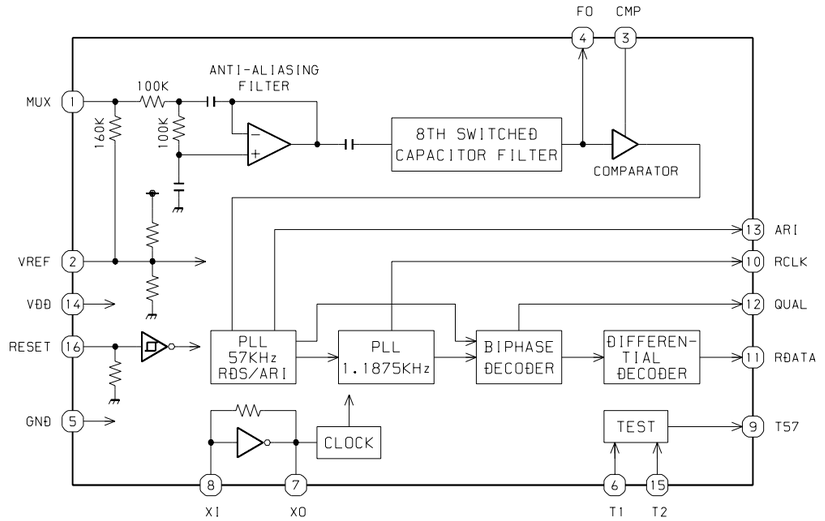


IC BLOCK DIAGRAM

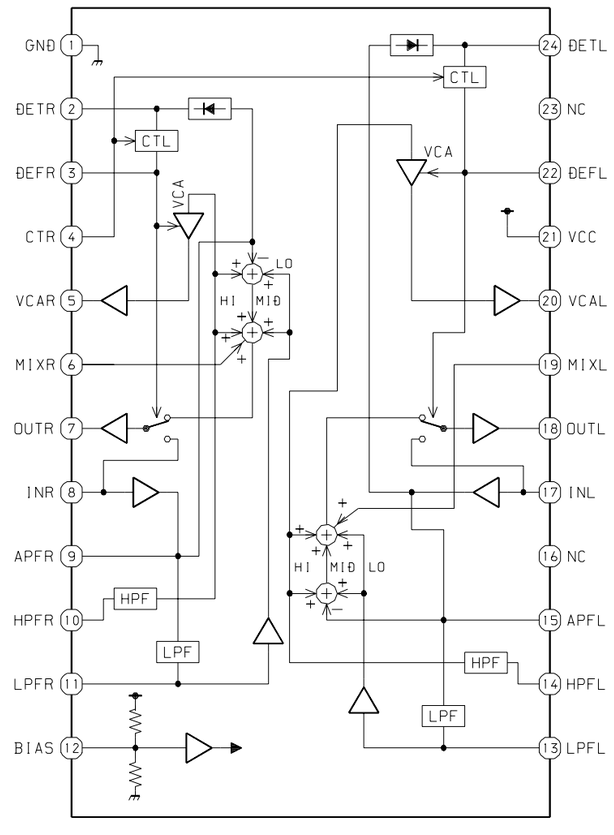
IC, LC72131D



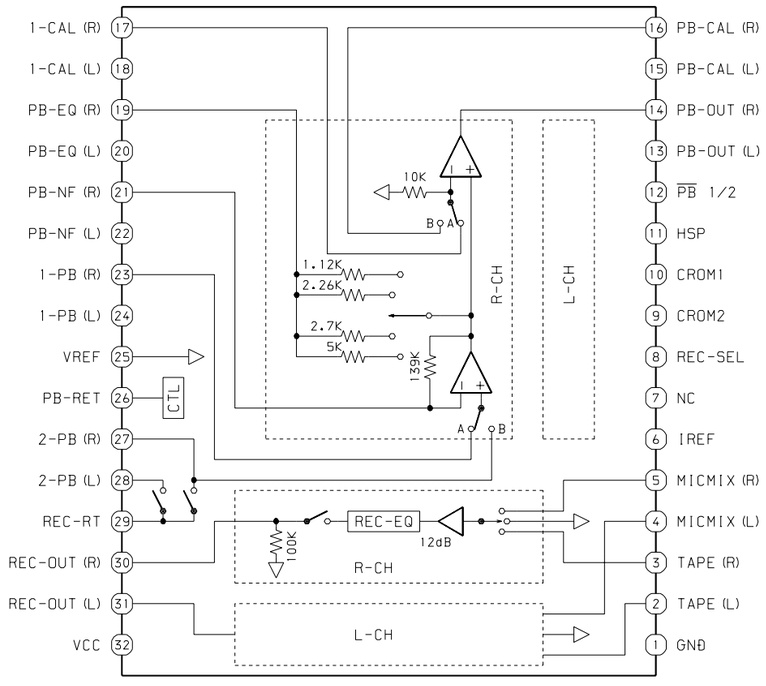
IC, BU1920FS



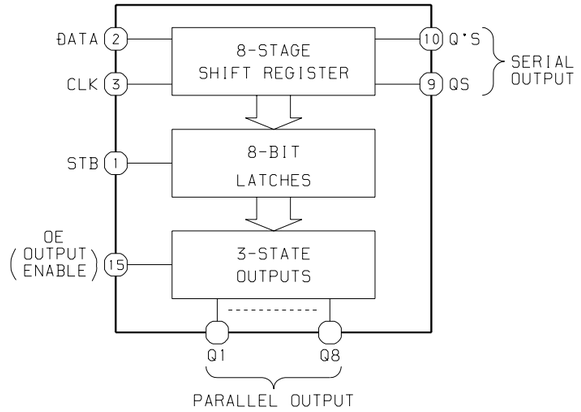
IC, BA3880FS



IC, BA7762AFS



IC, BU4094BCF

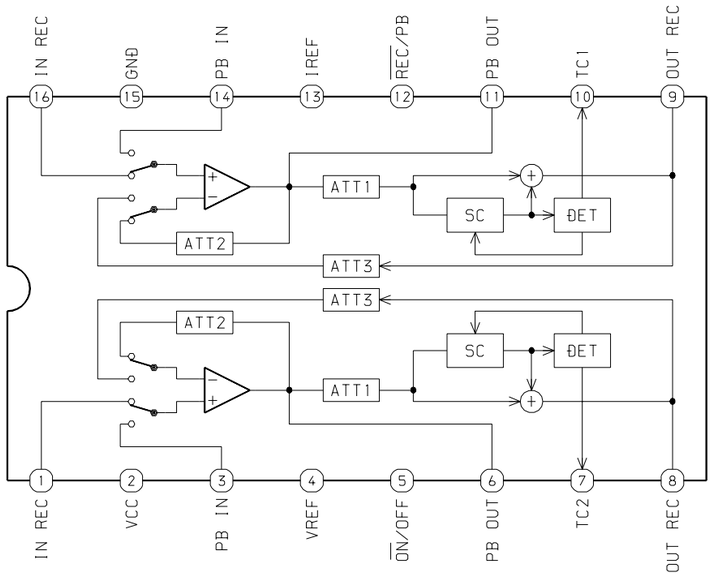


TRUTH TABLE

CLOCK	OUTPUT ENABLE	STROBE	ĐATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	QS	Q'S
↓	L	X	X	Z	Z	Q7	NO CHG.
↑	L	X	X	Z	Z	NO CHG.	QS
↓	H	L	X	NO CHG.	NO CHG.	Q7	NO CHG.
↓	H	H	L	L	Qn-1	Q7	NO CHG.
↓	H	H	H	H	Qn-1	Q7	NO CHG.
↑	H	X	X	NO CHG.	NO CHG.	NO CHG.	QS

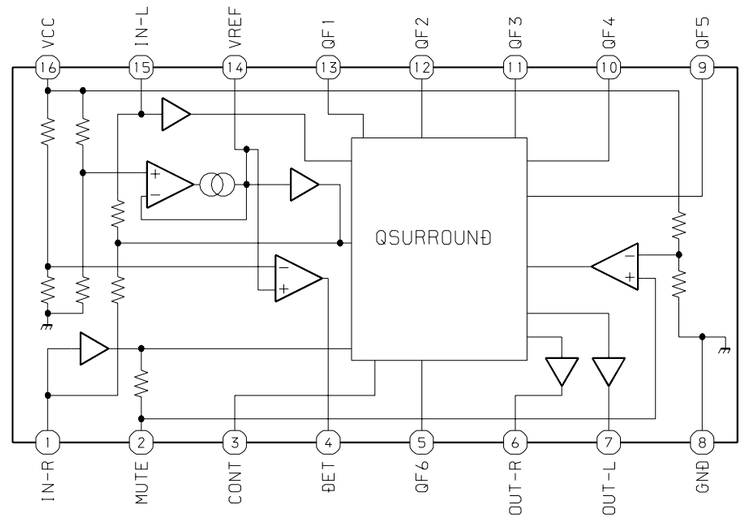
Z = HIGH IMPEĐANCE
X = ĐON'T CARE

IC, CXA1553P

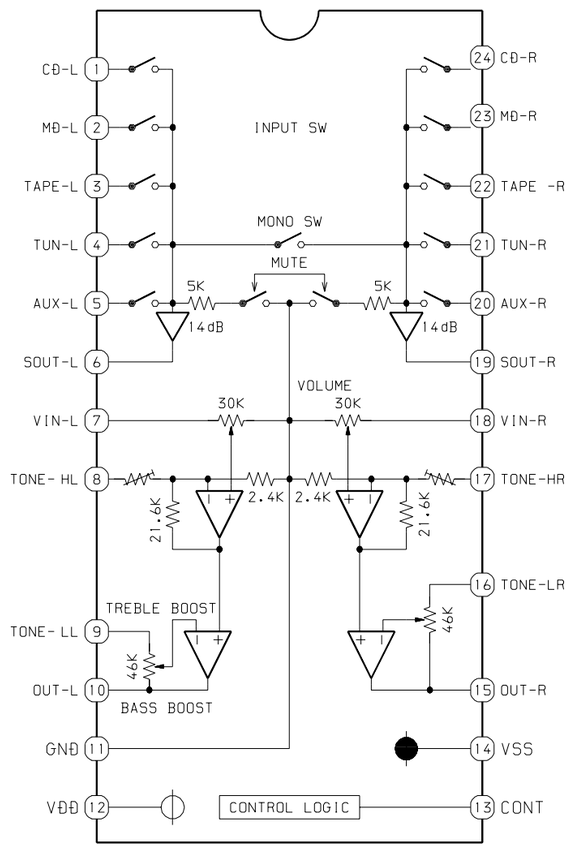


ATT:ATTENUATOR
SC:SIĐE CHAIN
ĐET:ĐETECTOR

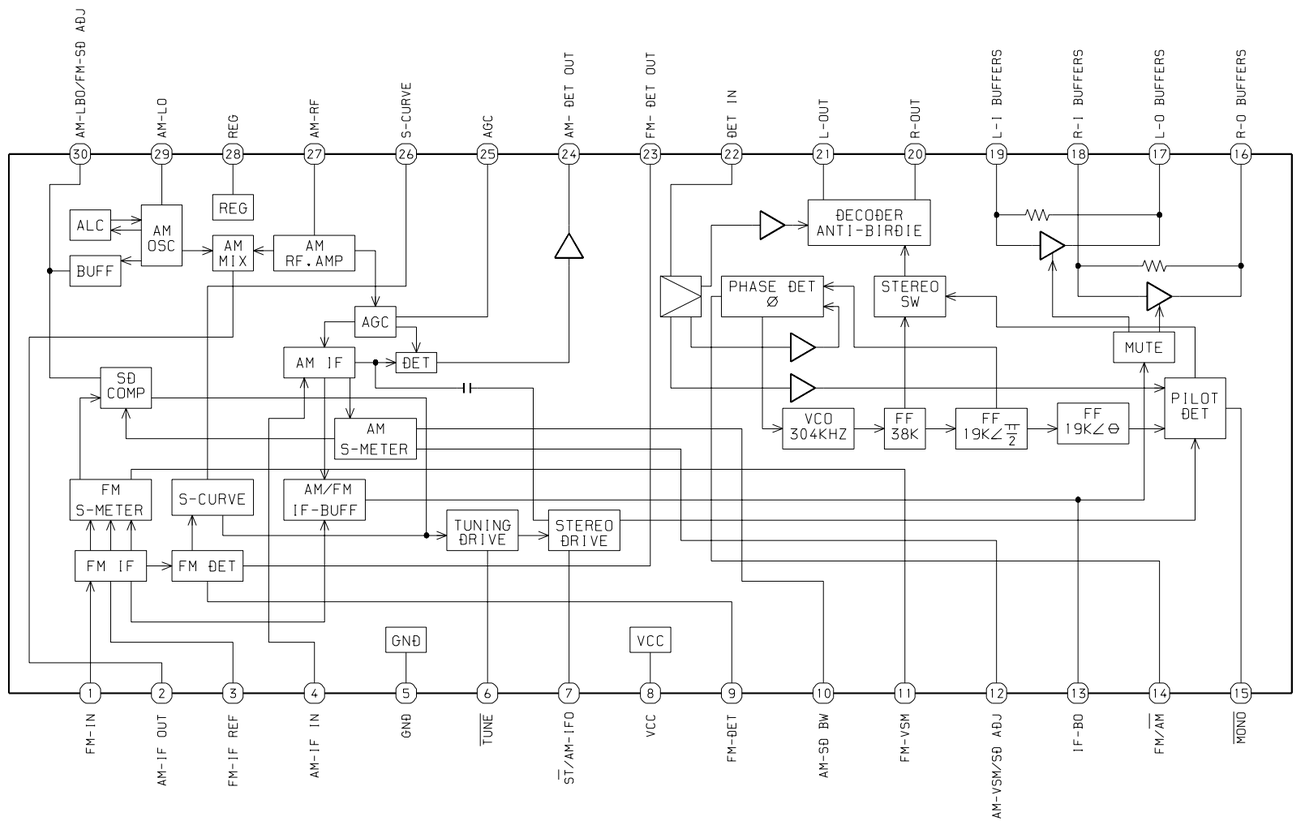
IC, MM1454XFBE

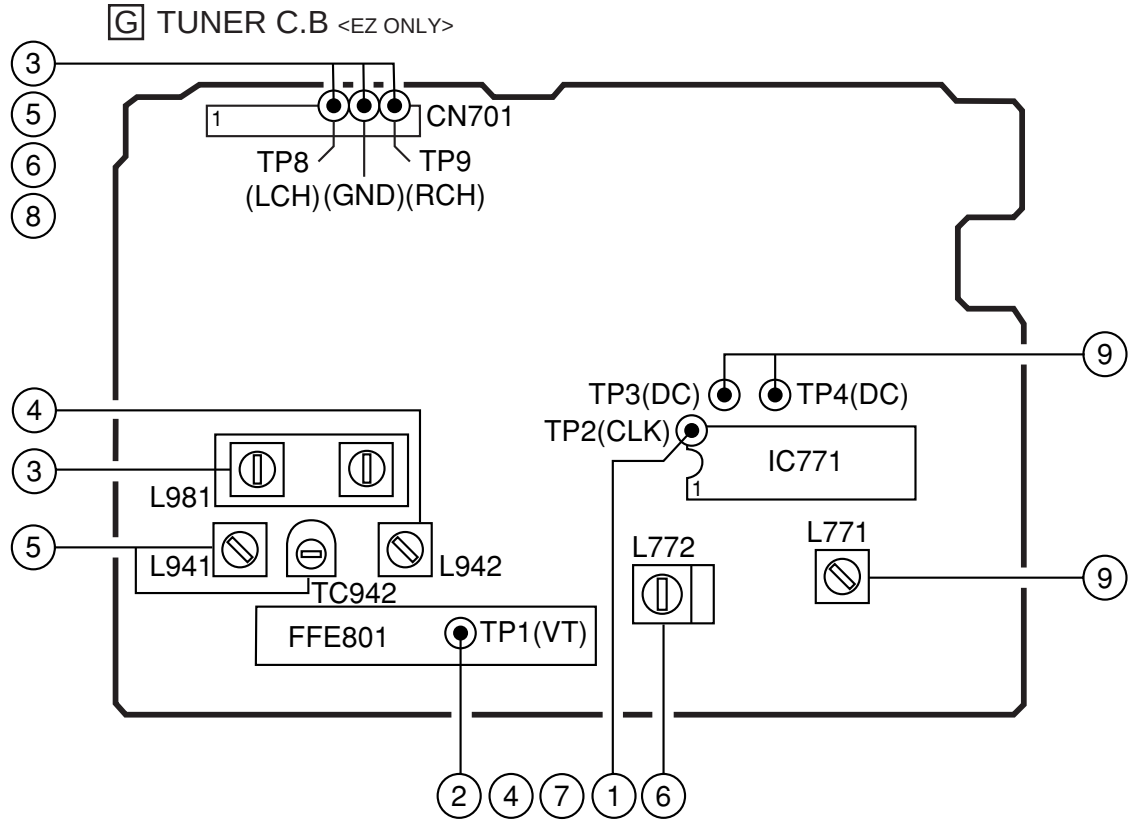


IC, M62495FP



IC, LA1837NL


AM-LBO/FM-SD ADJ
AM-LO
REG
AM-RF
S-CURVE
AGC
AM- DET OUT
FM- DET OUT
DET IN
L-OUT
R-OUT
L-I BUFFERS
R-I BUFFERS
L-O BUFFERS
R-O BUFFERS
30
29
28
27
26
25
24
23
22
21
20
19
18
17
16
ALC
AM OSC
BUFF
REG
AM MIX
AM RF. AMP
AGC
AM IF
DET
SD COMP
AM S-METER
FM S-METER
S-CURVE
AM/FM IF-BUFF
TUNING DRIVE
STEREO DRIVE
FM IF
FM DET
GND
VCC
DECODER ANTI-BIRDIE
PHASE DET Ø
STEREO SW
MUTE
VCO 304KHZ
FF 38K
FF 19K∠π/2
FF 19K∠θ
PILOT DET
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
FM-IN
AM-IF OUT
FM-IF REF
AM-IF IN
GND
TUNE
ST/AM-IFO
VCC
FM-DET
AM-SD BW
FM-VSM
AM-VSM/SD ADJ
IF-BO
FM/AM
MONO



< 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 : TP8 (Lch), TP9 (Rch)
   • Adjustment location : L981 (1/3)
   Method : Set to MW 999kHz and adjust L981 (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 1.3V ± 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 : TP8 (Lch), TP9 (Rch)
   • Adjustment location :
   L941 ..... 144kHz
   TC942 ..... 290kHz
   Method : Set up TC942 to center before adjustment. The level at 144kHz is adjusted to maximum by L941. Then the level at 290kHz is adjusted to maximum by TC942.6.

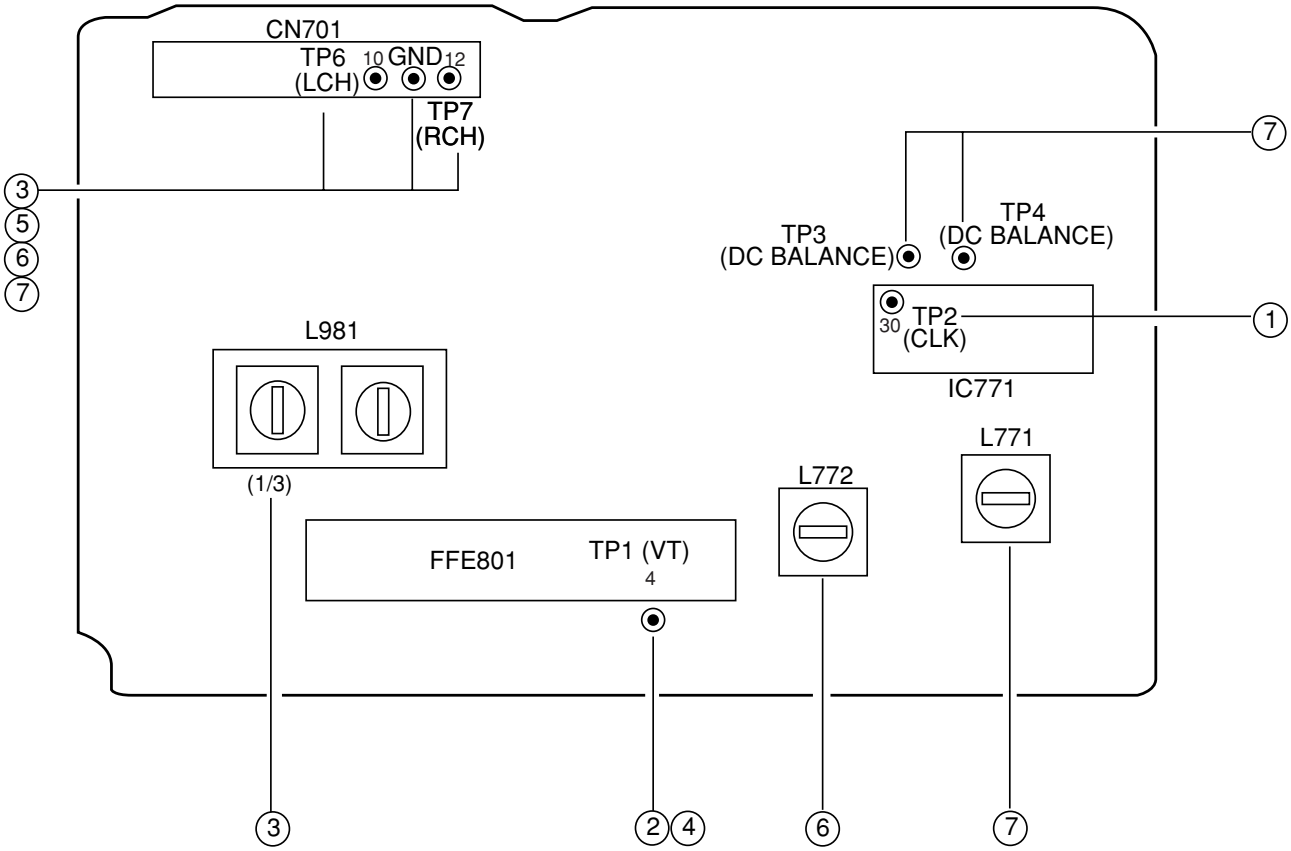
6. AM IF Adjustment
   Settings : • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location :
   L772 ..... 450kHz

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 87.5 MHz and check that the test point is more than 0.5V.

8. FM Tracking Check
   Settings : • Test point : TP8 (Lch), TP9 (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)
   TP8 (Lch), TP9 (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%.

G TUNER C.B <U ONLY>



< TUNER SECTION >

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

2. AM VT Check
   Settings : • Test point : TP1 (VT)
   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).

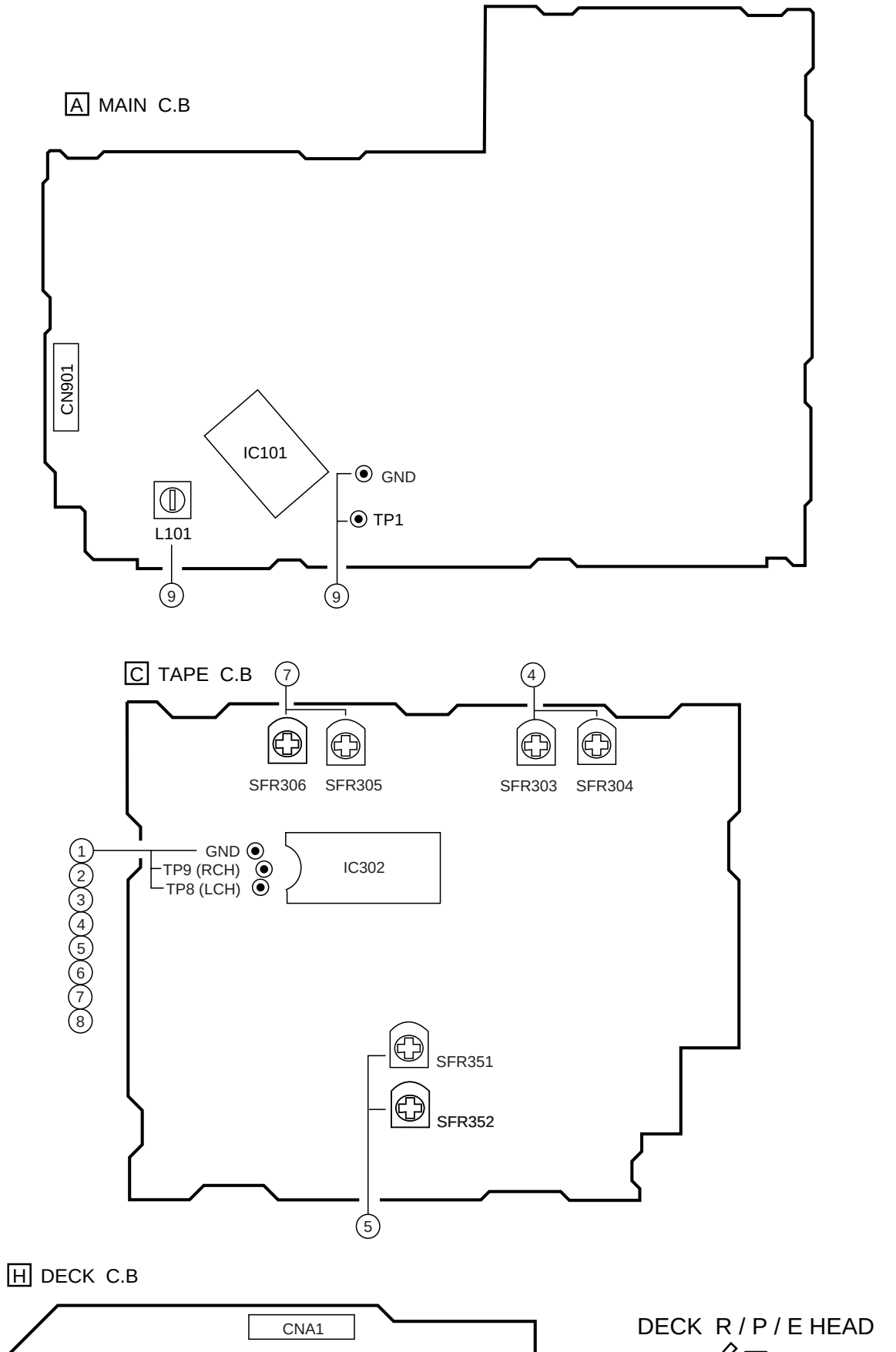
3. AM Tracking Adjustment
   Settings : • Test point : TP6 (Lch), TP7 (Rch)
   • Adjustment location :
   L981 (1/3) 1000kHz
   Method : Set to AM 1000kHz and adjust L981 (1/3) so that the test point is maximum.

4. 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.
   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
CN901
IC101
GND
TP1
L101
9
9
C TAPE C.B
7
4
SFR306
SFR305
SFR303
SFR304
1
2
3
4
5
6
7
8
GND
TP9 (RCH)
TP8 (LCH)
IC302
SFR351
SFR352
5
H DECK C.B
CNA1
SFR1
1
DECK R / P / E HEAD
2

< DECK SECTION >

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

2. Head Azimuth Adjustment
   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.

3. PB Frequency Response Check
   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 0dB ± 2dB.

4. PB Sensitivity Adjustment
   Settings : • Test tape : TTA–200
   • Test point : TP8 (Lch), TP9 (Rch)
   • Adjustment location : SFR303 (Lch) SFR304 (Rch)
   Method : Play back the test tape and adjust SFRs so that the output level of the test point is 245mV.

5. 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 (17mV). 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.

6. REC/PB Frequency Response Check
   Settings : • Test tape : TTA–615
   • Test point : TP8 (Lch), TP9 (Rch)
   • Input signal : 1kHz / 10kHz (LINE IN)
   Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes 0dB (17mV). Record and play back the 1kHz and 10kHz signals and check that the output of the 10kHz signals is 0dB ± 2dB with respect to that of the 1kHz signal.

7. REC/PB Sensitivity Adjustment
   Settings : • Test tape : TTA–602
   • Test point : TP8 (Lch), TP9 (Rch)
   • Input signal : 1kHz (LINE IN)
   • Adjustment location : SFR305 (Lch) SFR306 (Rch)
   Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP8, TP9 becomes 0dB (170mV). Record and play back the 1kHz signals and adjust SFRs so that the output becomes 0dB ± 0.5dB.

8. REC/PB Sensitivity Check
   Settings : • Test tape : TTA–615
   • 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 (170mV). Record and play back the 1kHz signals and check that the output is 0dB ± 1.5dB.

< MAIN SECTION >

9. μ-CON OSC Adjustment
   Settings : • Test point : TP1 and GND
   • Adjustment location : L101
   Method : Insert AC plug with pressing of DISPLAY key. Adjust L101 so that the frequency across the test point is 97.258Hz ± 0.098Hz.

IC DESCRIPTION

IC, LC876580W-5N98

Pin No.	Pin Name	I/O	Description
1	$\overline{\text{I-STEREO}}$ (TU)	I	Tuner stereo detection input.
2	I-TUDO (TU)	I	Connect to tuner PLL IC, LC72131D Pin 6 (DO).
3	I-RDSDATA (TU)	I	RDS data input. (EZ only)
4	O-ARDY (MD)	O	Serial data for MD unit control reception / transmission ready output. (Not used)
5	O-STB (M)	O	Main shift registor: latch output.
6	O-CLK	O	Front shift registor BU4094BCF (reversal) and tuner PLL IC, LC72131D combination clock output.
7	O-DATA	O	Front shift registor BU4094BCF (reversal) and tuner PLL IC, LC72131D combination data output.
8	O-VOLCTL	O	Connect to Function VOL IC, M62495FP pin 13 (CONT).
9	I-TMBASE	I	Reference clock input. Connect to LC72131D Pin 7 (T-BASE).
10	$\overline{\text{O-CLK SHIFT}}$	O	Clock shift control output.
11	$\overline{\text{I-RESET}}$	I	MICON reset input.
12	I-ACOFF	I	Hold status detection input.
13	I-TU SIG / I-MS (TU / TP)	I	AD for RDS signal level input. (EZ only) / Tape music sensor input. (Not used)
14	VSS 1	-	GND.
15	CF 1	-	Connect to 9.43MHz crystal oscillation.
16	CF 2	-	Connect to 9.43MHz crystal oscillation.
17	VDD 1	-	MICON power supply (+5V).
18	I-LEVEL	I	Level meter input (AD).
19	I-KEY1	I	Key 1: AD input.
20	I-KEY0	I	Key 0: AD input.
21	I-MODE SW (TP)	I	Deck mechanical status detection input (AD).
22	O-STB (F)	O	Front shift registor BU4094BCF latch reversal output.
23	I-JOG1	I	AD input from multi jog rotary encoder output A/B.
24	O-BBEB	O	BBE control reversal output (B).
25	O-CE (TU)	O	Tuner PLL IC, LC72131D chip enable output.
26	O-BBEA	O	BBE control reversal output (A).
27	I-RDS CLK (TU)	I	RDS clock input. (EZ only)
28	O-LMUTE	O	Line mute output. (Not used)
29	I-REM	I	Remote controller input.
30 ~ 45	NC	-	Not connected.
46	VDD3	-	MICON power supply (+5V).
47	$\overline{\text{I-CLS}}$ (MD)	I	MD unit close detection SW input / Close at L. (Connected to GND through a resistor)
48 ~ 57	NC	-	Not connected.
58	$\overline{\text{I-SWCLS}}$ (TP)	I	Deck mechanical status detection input (SWCLS).
59	$\overline{\text{I-SWOPN}}$ (TP)	I	Deck mechanical status detection input (SWOPN).
60	I-AUTO (TP)	I	Deck mechanical status detection input (AUTO).
61	I-CAM (TP)	I	Deck mechanical status detection input (CAM).

Pin No.	Pin Name	I/O	Description
62	$\overline{\text{MD}}$ / TAPE	I	Initial matrix input (L: MD / H: TAPE).
63	RDS	I	Initial matrix input (H: RDS) (EZ only) / Connect to GND through a resistor. (U only).
64	$\overline{\text{BBE}}$	I	Initial matrix input (L: BBE).
65	$\overline{\text{DOLBY}}$	I	Initial matrix input (L: DOLBY).
66	AM10K	I	Initial matrix input (H: 10K STEP / L: 9K STEP).
67	FM WIDE&AMST	I	Initial matrix input (H: FM WIDE & AM STEREO).
68	LW	I	Initial matrix input (H: LW) (EZ only) / Connect to GND through a resistor. (U only)
69	SW	I	Initial matrix input (H: SW). Connect to GND through a resistor.
70	OIRT	I	Initial matrix input (H: OIRT). Connect to GND through a resistor.
71	I-CDSRQ (CD)	I	CD data transmission request signal input.
72	VDD4	-	MICON power supply (+5V).
73	O-CDON (CD)	O	CD power supply control output. (Not used)
74	O-D MS CD (CD)	O	Transmission output to CD MICON.
75	O-CS (CD)	O	Data transmission request output to CD MICON.
76	O-SCK (CD)	O	Data reception and transmission clock output to CD MICON.
77	O-SLP (CD)	O	Sleep output to CD MICON.
78	$\overline{\text{O-RST}}$ (CD)	O	Reset output to CD MICON.
79	I-SWCD	I	CD disc detection switch (H: active).
80	I-D CD MS (CD)	I	Transmission data from CD MICON.
81	O-QSURR	O	Q-Surround IC control output.
82	O-TUON (TU)	O	Tuner power supply switch output.
83	O-MOTOR (TP)	O	Deck mechanical motor control output.
84	O-SWSCAN	O	Tuner test mode TP (used for coil adjustment point).
85	O-SREQ (MD)	O	Serial data for MD unit control transmission request. (Not used)
86	O-MD REC	O	Output H at MD REC.
87	O-P.ON	O	Power on output.
88	$\overline{\text{O-RST}}$ (MD)	O	MD unit reset signal output. (Not used)
89	VSS2	-	GND.
90	VDD2	-	MICON power supply (+5V).
91	O-OE (FL)	O	Output function output to FL driver.
92	O-LAT (FL)	O	Latch output to FL driver.
93	O-MUTE	O	Main mute output.
94	$\overline{\text{O-PL}}$ (TP)	O	Deck mechanical plunger control output.
95	I-SI (FL)	I	Serial data input to FL driver.
96	O-MREQ (MD)	O	Serial data for MD unit control transmission request output. (Not used)
97	O-CLK (FL)	O	Clock output to FL driver.
98	O-SIN (MD)	O	Serial data for MD unit control output. (Not used)
99	I-SOUL (MD)	I	Serial data for MD unit control input. Connected to GND through a resistor.
100	I-ACLK (MD)	I	Serial data for MD unit control input. Connected to GND through a resistor.

CD TEST MODE

1. How to activate CD Test Mode
   Insert the AC plug while pressing the "Enter" button. FL display is fully illuminated and test mode will be activated. Insert the test disc and operate the test mode following the control method as shown below.
   Note: If no CD was inserted, it displays "No Disc" and cannot be operated.

2. How to cancel CD Test Mode
   Either one of the following operations will cancel the CD test mode.
   - Disconnect the AC plug.
   - Press "Function" button.
   - Press "Power" button.
   - Press "Band" button.

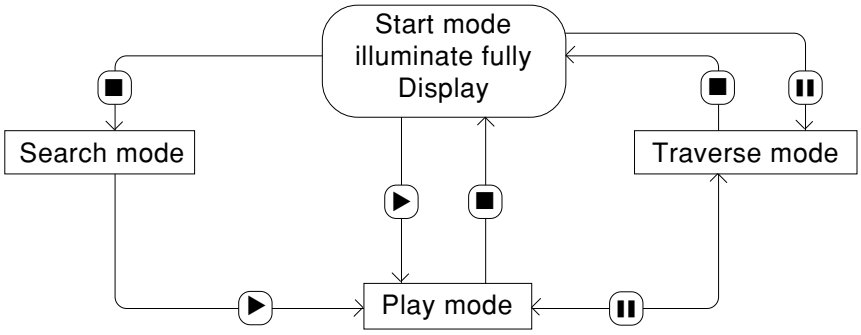
3. CD Test Mode functions
   When test mode is activated, the following mode functions can be used by pressing the operation keys.

Mode	Function	FL Display	Operation	Content
Start Mode	Button	Fully illuminate	• Initialization	
Sled Mode	⏮ ⏭	CD TEST	• Shift to the external circumference of Pick-Up. * Note 1 • Shift to the internal circumference of Pick-Up. (Normal operation during CD PLAY)	• SLED SERVO • SLED Operation Check
Search Mode	■	CD	• LASER DIODE illuminated all the time (CD block power ON) • Continuous Focus Search *Note 2 (Pickup lense repeat full swing)	• APC circuit check • Laser current measurement • Focus search waveform check • Focus error waveform check (In Search Mode, FOK/FZC is not checked)
Play Mode	▶	1Tr.0:01	• Normal Playback • When TOC READ is unavailable Continue focus search *Note 2 • Continue spindle motor kick spin	• FOCUS SERVO/TRACKING SERVO • CLV SERVO/SLED SERVO • FOK check • RF waveform check
Traverse Mode	⏸	1Tr.0:01	• Tracking servo OFF/ON • Repeat OFF/ON every time [⏸] button is pressed	• TRACKING SERVO OFF • Tracking Balance Check

* Note 1 : When pressing the ⏮ or ⏭ keys, take care to avoid damage to the gears. Because the sled motor is activated when the ⏮ or ⏭ keys are pressed, even when the pick-up is at outermost or innermost track. The sled operation is not as normal and moves outermost track with ⏮ button and innermost track with ⏭ button

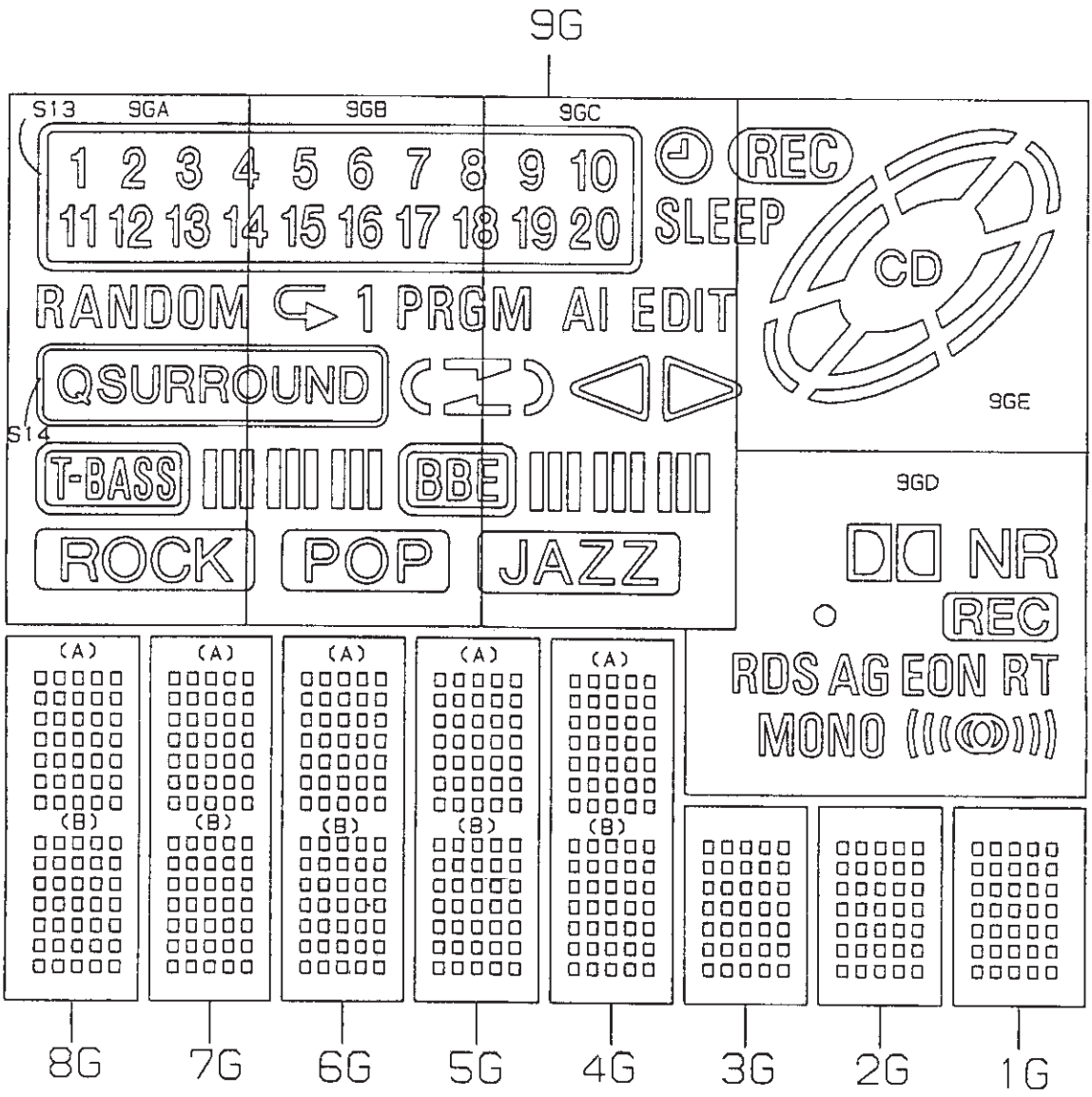
* Note 2 : There are cases when the tracking servo cannot be locked owing to the protection circuit being operated when heat builds up in the driver IC if the focus search is operated continually for more than 10 minutes. In these case, the power supply should be switched off for an hour until heat has been reduced and then re-start.

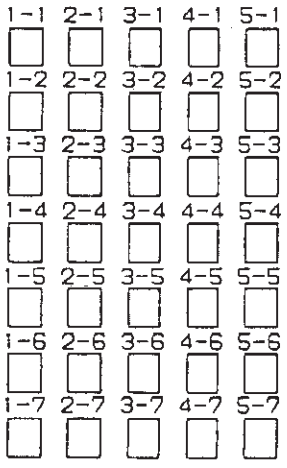
4. The Operation Outline
   This operation of each mode is carried out in the direction of the arrows from the start mode as indicated in the following illustration



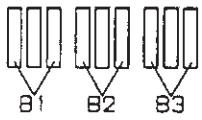
FL (9-ST-19GONK) GRID ASSIGNMENT AND ANODE CONNECTION

GRID ASSIGNMENT

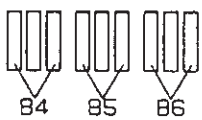




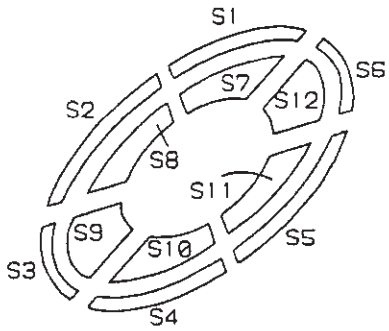
(8G~1G)



(T-BASS)



(BBE)



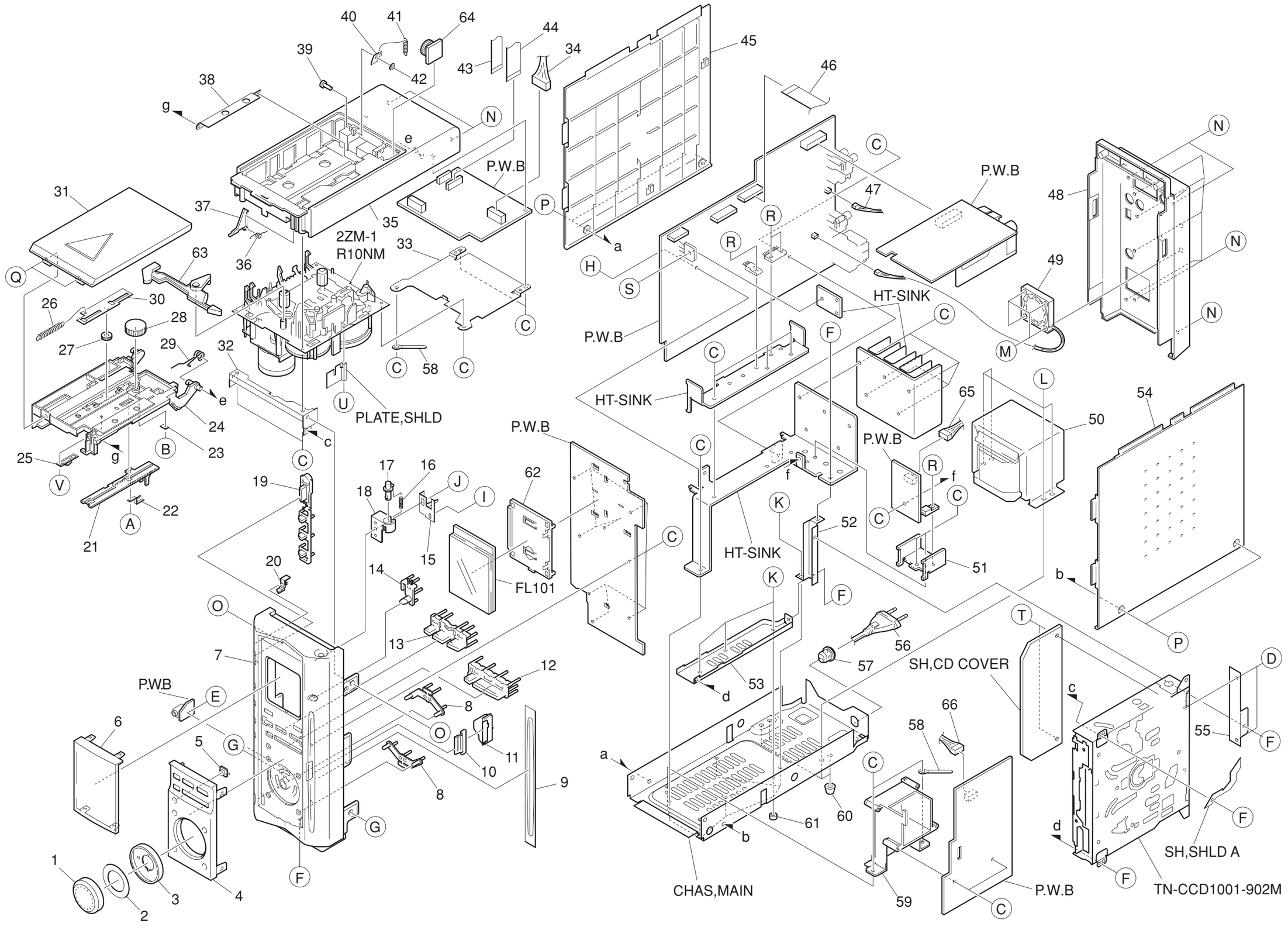
(9G)

ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G(A~E)
P1	–	–	–	1-1A	1-1A	1-1A	1-1A	1-1A	ROCK
P2	–	–	–	2-1A	2-1A	2-1A	2-1A	2-1A	POP
P3	–	–	–	3-1A	3-1A	3-1A	3-1A	3-1A	JAZZ
P4	–	–	–	4-1A	4-1A	4-1A	4-1A	4-1A	1
P5	–	–	–	5-1A	5-1A	5-1A	5-1A	5-1A	11
P6	–	–	–	1-2A	1-2A	1-2A	1-2A	1-2A	2
P7	–	–	–	2-2A	2-2A	2-2A	2-2A	2-2A	12
P8	–	–	–	3-2A	3-2A	3-2A	3-2A	3-2A	3
P9	–	–	–	4-2A	4-2A	4-2A	4-2A	4-2A	13
P10	–	–	–	5-2A	5-2A	5-2A	5-2A	5-2A	4
P11	–	–	–	1-3A	1-3A	1-3A	1-3A	1-3A	14
P12	–	–	–	2-3A	2-3A	2-3A	2-3A	2-3A	5
P13	–	–	–	3-3A	3-3A	3-3A	3-3A	3-3A	15
P14	–	–	–	4-3A	4-3A	4-3A	4-3A	4-3A	S13
P15	–	–	–	5-3A	5-3A	5-3A	5-3A	5-3A	6
P16	–	–	–	1-4A	1-4A	1-4A	1-4A	1-4A	16
P17	–	–	–	2-4A	2-4A	2-4A	2-4A	2-4A	7
P18	–	–	–	3-4A	3-4A	3-4A	3-4A	3-4A	17
P19	–	–	–	4-4A	4-4A	4-4A	4-4A	4-4A	8
P20	–	–	–	5-4A	5-4A	5-4A	5-4A	5-4A	18
P21	–	–	–	1-5A	1-5A	1-5A	1-5A	1-5A	9
P22	–	–	–	2-5A	2-5A	2-5A	2-5A	2-5A	19
P23	–	–	–	3-5A	3-5A	3-5A	3-5A	3-5A	10
P24	–	–	–	4-5A	4-5A	4-5A	4-5A	4-5A	20
P25	–	–	–	5-5A	5-5A	5-5A	5-5A	5-5A	RANDOM
P26	–	–	–	1-6A	1-6A	1-6A	1-6A	1-6A	↺
P27	–	–	–	2-6A	2-6A	2-6A	2-6A	2-6A	1
P28	–	–	–	3-6A	3-6A	3-6A	3-6A	3-6A	PRGM
P29	–	–	–	4-6A	4-6A	4-6A	4-6A	4-6A	T-BASS
P30	–	–	–	5-6A	5-6A	5-6A	5-6A	5-6A	B1
P31	–	–	–	1-7A	1-7A	1-7A	1-7A	1-7A	B2
P32	–	–	–	2-7A	2-7A	2-7A	2-7A	2-7A	B3
P33	–	–	–	3-7A	3-7A	3-7A	3-7A	3-7A	BBE
P34	–	–	–	4-7A	4-7A	4-7A	4-7A	4-7A	B4
P35	–	–	–	5-7A	5-7A	5-7A	5-7A	5-7A	B5

	1G	2G	3G	4G	5G	6G	7G	8G	9G(A~E)
P36	1-1B	1-1B	1-1B	1-1B	1-1B	1-1B	1-1B	1-1B	B6
P37	2-1B	2-1B	2-1B	2-1B	2-1B	2-1B	2-1B	2-1B	S14
P38	3-1B	3-1B	3-1B	3-1B	3-1B	3-1B	3-1B	3-1B	QSURROUND
P39	4-1B	4-1B	4-1B	4-1B	4-1B	4-1B	4-1B	4-1B	Ai
P40	5-1B	5-1B	5-1B	5-1B	5-1B	5-1B	5-1B	5-1B	EDIT
P41	1-2B	1-2B	1-2B	1-2B	1-2B	1-2B	1-2B	1-2B	☾
P42	2-2B	2-2B	2-2B	2-2B	2-2B	2-2B	2-2B	2-2B	≈
P43	3-2B	3-2B	3-2B	3-2B	3-2B	3-2B	3-2B	3-2B	☽
P44	4-2B	4-2B	4-2B	4-2B	4-2B	4-2B	4-2B	4-2B	◁
P45	5-2B	5-2B	5-2B	5-2B	5-2B	5-2B	5-2B	5-2B	▷
P46	1-3B	1-3B	1-3B	1-3B	1-3B	1-3B	1-3B	1-3B	MONO
P47	2-3B	2-3B	2-3B	2-3B	2-3B	2-3B	2-3B	2-3B	((◎))
P48	3-3B	3-3B	3-3B	3-3B	3-3B	3-3B	3-3B	3-3B	RDS
P49	4-3B	4-3B	4-3B	4-3B	4-3B	4-3B	4-3B	4-3B	AG
P50	5-3B	5-3B	5-3B	5-3B	5-3B	5-3B	5-3B	5-3B	EON
P51	1-4B	1-4B	1-4B	1-4B	1-4B	1-4B	1-4B	1-4B	RT
P52	2-4B	2-4B	2-4B	2-4B	2-4B	2-4B	2-4B	2-4B	◴
P53	3-4B	3-4B	3-4B	3-4B	3-4B	3-4B	3-4B	3-4B	SLEEP
P54	4-4B	4-4B	4-4B	4-4B	4-4B	4-4B	4-4B	4-4B	(REC)
P55	5-4B	5-4B	5-4B	5-4B	5-4B	5-4B	5-4B	5-4B	○
P56	1-5B	1-5B	1-5B	1-5B	1-5B	1-5B	1-5B	1-5B	DD
P57	2-5B	2-5B	2-5B	2-5B	2-5B	2-5B	2-5B	2-5B	REC
P58	3-5B	3-5B	3-5B	3-5B	3-5B	3-5B	3-5B	3-5B	NR
P59	4-5B	4-5B	4-5B	4-5B	4-5B	4-5B	4-5B	4-5B	S1
P60	5-5B	5-5B	5-5B	5-5B	5-5B	5-5B	5-5B	5-5B	S7
P61	1-6B	1-6B	1-6B	1-6B	1-6B	1-6B	1-6B	1-6B	S2
P62	2-6B	2-6B	2-6B	2-6B	2-6B	2-6B	2-6B	2-6B	S8
P63	3-6B	3-6B	3-6B	3-6B	3-6B	3-6B	3-6B	3-6B	S3
P64	4-6B	4-6B	4-6B	4-6B	4-6B	4-6B	4-6B	4-6B	S9
P65	5-6B	5-6B	5-6B	5-6B	5-6B	5-6B	5-6B	5-6B	S4
P66	1-7B	1-7B	1-7B	1-7B	1-7B	1-7B	1-7B	1-7B	S10
P67	2-7B	2-7B	2-7B	2-7B	2-7B	2-7B	2-7B	2-7B	S5
P68	3-7B	3-7B	3-7B	3-7B	3-7B	3-7B	3-7B	3-7B	S11
P69	4-7B	4-7B	4-7B	4-7B	4-7B	4-7B	4-7B	4-7B	S6
P70	5-7B	5-7B	5-7B	5-7B	5-7B	5-7B	5-7B	5-7B	S12
P71	–	–	–	–	–	–	–	–	CD

MECHANICAL EXPLODED VIEW 1 / 1



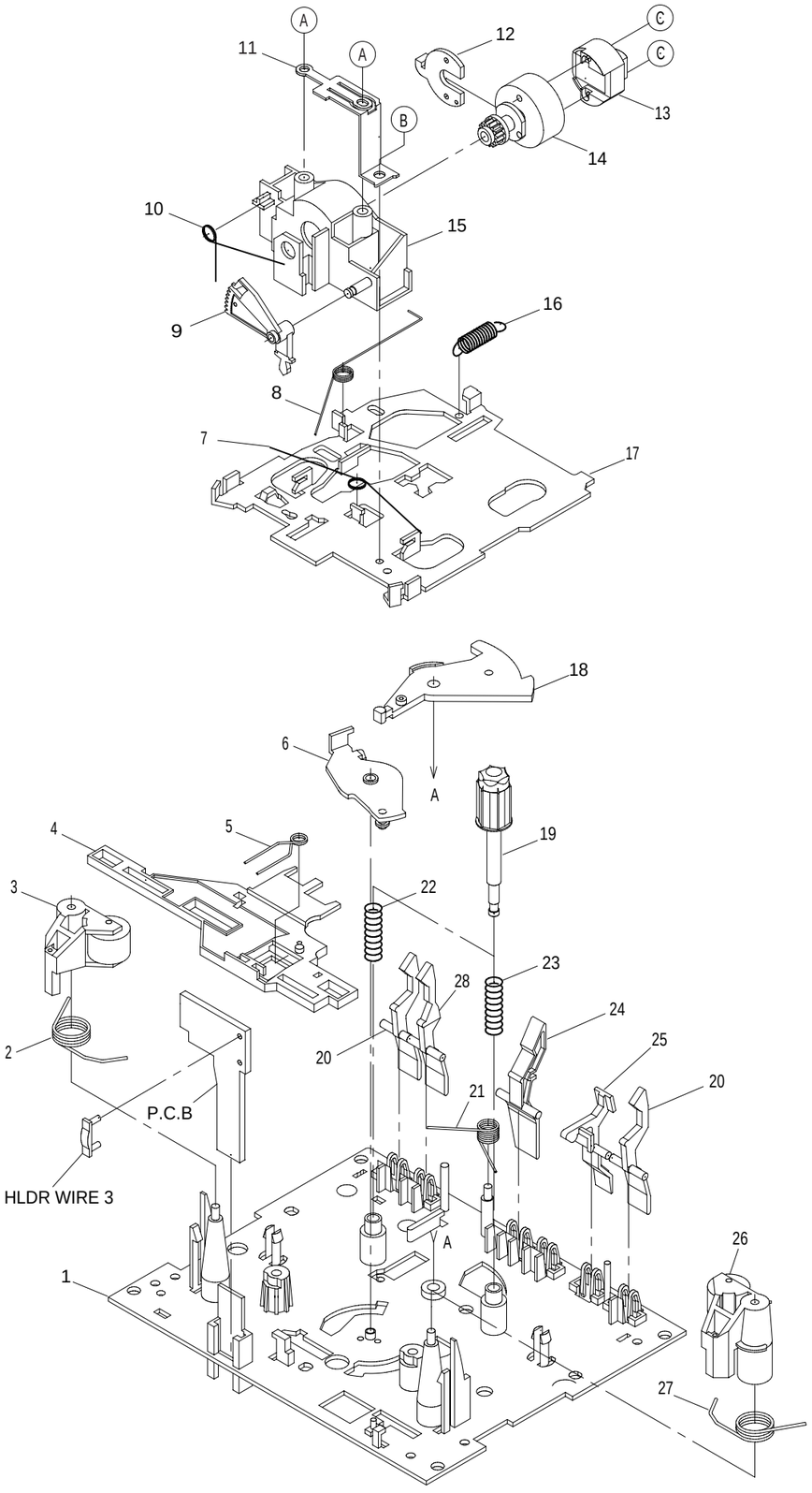
MECHANICAL PARTS LIST 1 / 1

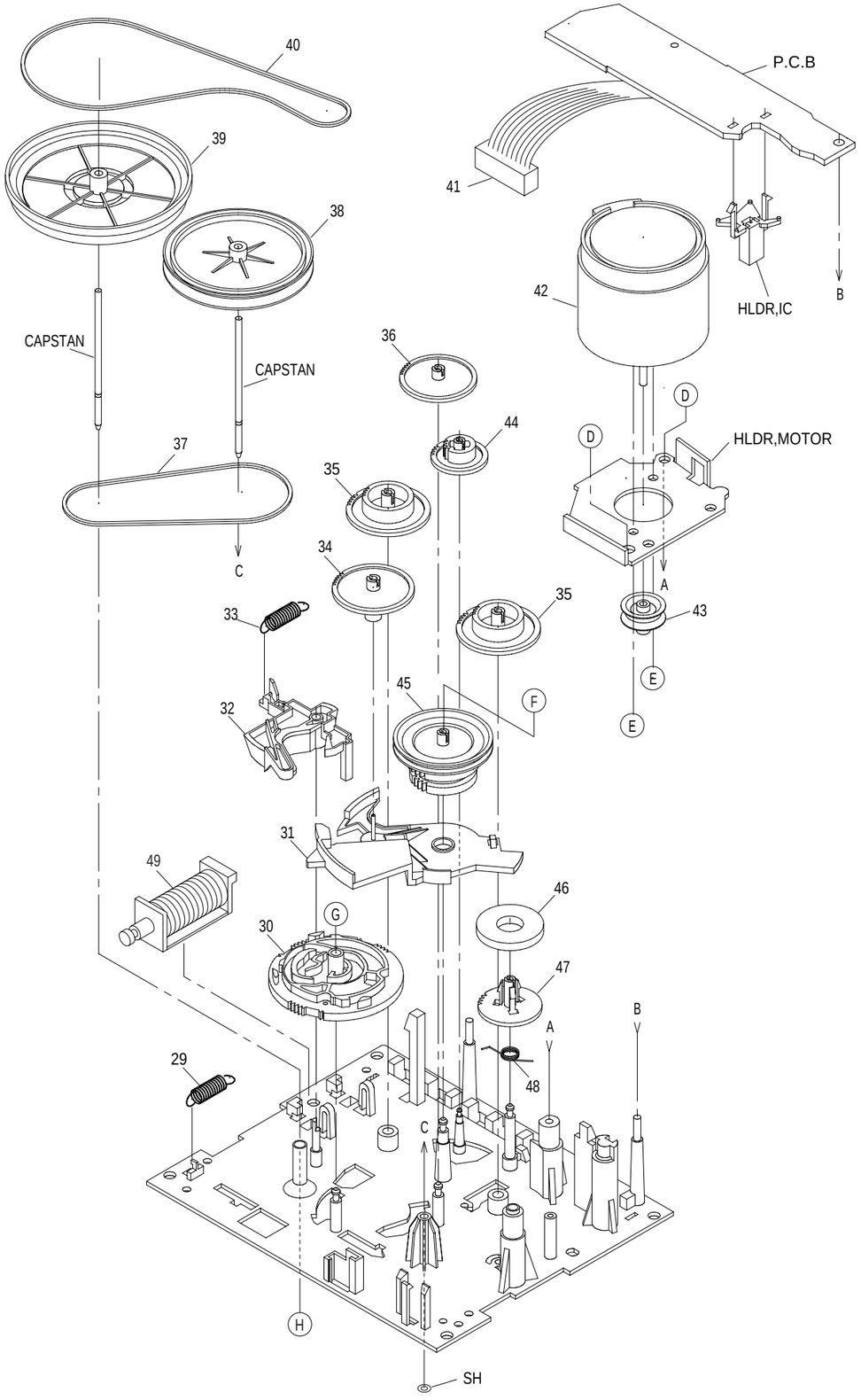
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CJ5-016-010		KNOB,RTRY JOG
2	8A-CJ5-217-010		PLATE,JOG
3	8A-CJ5-017-010		REFLECTOR,JOG
4	8A-CL5-037-010		PANEL,FR CASS EZ<EZ>
4	8A-CL5-023-010		PANEL,FR CASS(B)<U>
5	8A-CJ5-019-010		LENS,SENSOR
6	8A-CJ5-007-010		WINDOW,DISPLAY<U>
6	8A-CJ5-033-010		WINDOW,DISPLAY EZ<EZ>
7	8A-CL5-006-010		CABI,FR EZ<EZ>
7	8A-CL5-021-010		CABI,FR(B) U<U>
8	8A-CJ5-012-010		KEY,ENTER
9	8A-CL5-046-010		DUST COVER, CD FELT<U>
9	8A-CJ5-023-010		DUST COVER, CD FELT<EZ>
10	8A-CJ5-018-010		REFLECTOR,CD
11	8A-CJ5-215-010		GUIDE,LED CD
12	8A-CL5-025-010		KEY,SKIP CASS
13	8A-CL5-009-010		KEY,PLAY CASS
14	8A-CJ5-013-010		KEY,EJECT CD
15	8A-CL5-305-010		PLATE,BOX LOCK
16	8A-CL5-326-010		SPR-E,OPEN
17	8A-CJ5-014-010		BTN,OPEN
18	8A-CL5-312-010		HLDR,BUTTON
19	8A-CJ5-009-010		KEY,POWER
20	8A-CJ5-015-010		REFLECTOR,POWER
21	8A-CL5-302-010		LEVER,POP-UP
22	8A-CL5-323-010		SPR-P,LOCK
23	8A-CL5-324-010		PLATE,LOCK
24	8A-CL5-307-010		BOX,CASS<EZ>
24	8A-CL5-328-010		BOX,CASS(B)<U>
25	8A-CL5-321-010		SPR-P,CAS PUSH R
26	8A-CL5-315-010		SPR-E,POP UP
27	8A-CL5-301-010		GEAR,POP-UP2
28	8A-CL5-317-010		GEAR,DUMP
29	8A-CL5-316-010		SPR-T,CASS
30	8A-CL5-306-010		PLATE,ASSY POP-UP
31	8A-CL5-040-010		LID,CASS<EZ>
31	8A-CL5-024-010		LID,CASS(B)<U>
32	8A-CL5-201-010		HLDR,FR
33	8A-CL5-202-010		HLDR,REAR
34	8A-CL5-625-010		CONN ASSY,8P -RPB
35	8A-CL5-002-010		CABI,TOP<EZ>
35	8A-CL5-022-010		CABI,TOP(B) U<U>
36	8A-CL5-313-010		SPR-T,BOX LOCK
37	8A-CL5-308-010		LEVER,BOX LOCK
38	8A-CL5-309-010		PLATE,GUIDE
39	8A-CL5-322-010		SHAFT,TURN
40	8A-CL5-310-010		LEVER,TURN
41	8A-CL5-325-010		SPR-C,TURN
42	87-067-729-010		PW 1.3-4.0-0.25 C-SLT
43	8A-CL5-627-010		CABLE,FFC9P-1.0 220
44	8A-CL5-628-010		CABLE,FFC14P-1.0 160
45	8A-CJ5-004-010		PANEL,SIDE L<EZ>
45	8A-CL5-028-010		PANEL,SIDE L(B) U<U>
46	8A-CL5-626-010		CABLE,FFC15P-1.0 220
47	8A-CJ5-634-010		CONN ASSY,2P SHLD
48	8A-CL5-005-010		CABI,REAR EZ<EZ>
48	8A-CL5-030-010		CABI,REAR(B) U<U>
49	8Z-CL1-663-010		FAN,MF40D-12-200MM
⚠ 50	8A-CJ5-622-010		PT,ACJ-5 EZ<EZ>
⚠ 50	8A-CJ5-621-010		PT,ACJ-5 U<U>
51	8A-CJ5-219-010		HLDR,TR B
52	8A-CJ5-206-010		HLDR,CD B
53	8A-CJ5-205-010		HLDR,CD A
54	8A-CJ5-005-010		PANEL,SIDE R<EZ>
54	8A-CL5-029-010		PANEL,SIDE R(B) U<U>
55	8A-CJ5-213-010		HLDR,MECHA CD
⚠ 56	87-A80-092-010		AC CORD ASSY,E BLK SUN FAI<EZ>
⚠ 56	87-A80-110-010		AC CORD ASSY,U SPT-2W<U>
57	87-085-185-010		BUSHING, AC CORD (E)<EZ>
57	87-085-189-010		BUSHING, CORD (U)<U>
58	87-064-185-010		HLDR,WIRE
59	8A-CJ5-204-010		HLDR,ECO
60	8Z-NB8-240-010		COVER, PL
61	8Z-CE3-206-010		CUSH,PL 9.2-4.2-5
62	8A-CJ5-209-010		GUIDE,FL
63	8A-CL5-311-010		LEVER,EJECT
64	87-NF8-220-010		DMPR,150
65	88-805-051-420		CONN ASSY,5P 140
66	88-805-040-820		CONN ASSY,4P 80
A	87-265-544-310		V+2-2.2 NI
B	87-352-509-310		VT2+1.4-4
C	87-067-579-010		TAPPING SCREW, BVT2+3-8
D	87-067-421-010		VTT+2-4
E	88-AR1-217-010		S-SCREW,BFT2+3-8
F	87-067-688-010		BVTT+3-6
G	87-591-094-010		QIT+3-6 GOLD
H	87-NF4-224-010		S-SCREW,IT3B+3-8CU
I	88-ZG5-302-010		S-SCREW,8ZG-5+2-4W/O
J	8A-CL5-327-010		S-SCREW,2.6-11
K	87-067-584-010		BVT2+3-3-6W/O SLOT
L	87-078-191-010		S-SCREW,IT+4-10
M	87-751-098-410		VT2+3-14W/O SLOT
N	87-067-660-010		BVT2+3-8W/O SLOT BLK
O	87-591-094-410		TAPPING SCREW, QIT+3-6
P	87-067-641-010		UTT2+3-8W/O SLOT BLK
Q	87-067-868-010		V+1.7-4 HL BLK
R	87-067-703-010		BVT2+3-10W/O SLOT
S	87-067-579-080		BVT2+3-8W/O SLOT
T	87-067-767-010		BVTT+2.6-6
U	82-ZM3-220-010		S-SCREW,SHILD PLATE
V	87-351-547-310		VT2+2-3 BLK

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

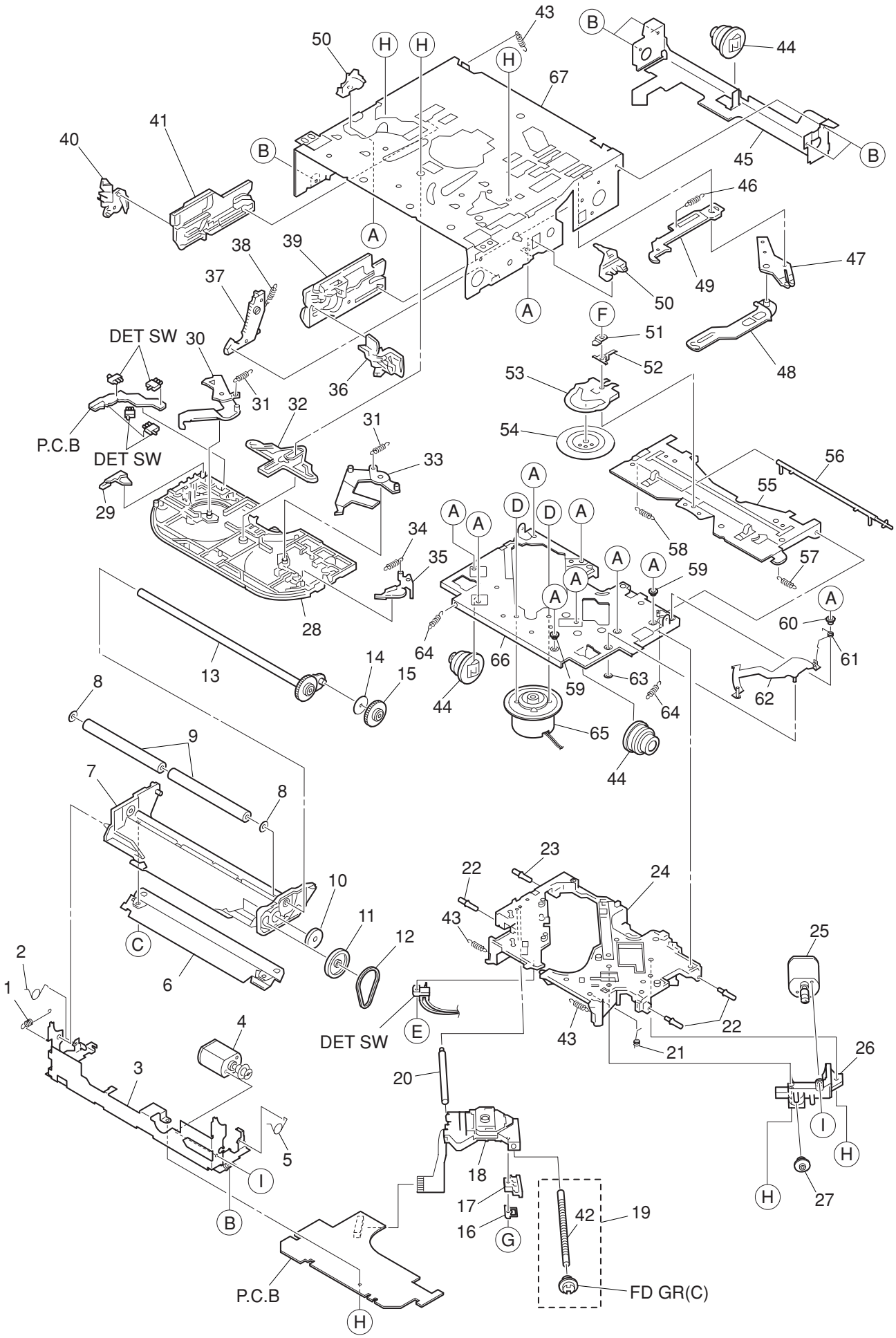




TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM1-327-310		CHAS ASSY,RM
2	82-ZM1-258-210		SPR-T,PINCH L
3	82-ZM1-341-210		LVR ASSY,PINCH L2
4	82-ZM1-266-310		LVR,DIR
5	82-ZM1-214-010		SPR-T,DIR
6	82-ZM1-333-210		PLATE,LINK2
7	82-ZM1-269-210		SPR-T,BRG
8	82-ZM1-219-110		SPR-T,LINK
9	82-ZM1-210-110		GEAR,H T
10	82-ZM3-353-010		SPR-T,HEAD 2
11	82-ZM1-298-010		SPR-P EARTH
12	82-ZM1-314-110		PLATE,HEAD
13	87-A91-176-010		HEAD,RPH HADKH56
14	82-ZM1-208-310		HLDR,HEAD
15	82-ZM1-207-910		GUIDE,TAPE
16	82-ZM1-218-010		SPR-E,HB
17	82-ZM1-206-910		CHAS,HEAD
18	82-ZM1-222-310		LVR,PLAY(*)
19	82-ZM1-217-410		REEL TABLE
20	82-ZM1-240-110		LVR,REC(*)
21	82-ZM1-257-010		SPR-T,CAS
22	82-ZM1-285-410		SPR-C,BT L
23	82-ZM1-244-510		SPR-C,BT
24	82-ZM1-242-010		LVR,CAS
25	82-ZM1-243-010		LVR,STOP
26	82-ZM1-344-210		LVR ASSY,PINCH R2
27	82-ZM1-259-210		SPR-T,PINCH R
28	82-ZM1-241-310		LVR,MC
29	82-ZM1-255-310		SPR-E,LVR DIR
30	82-ZM1-221-310		GEAR,CAM(*)
31	82-ZM1-224-410		LVR,FR
32	82-ZM1-227-310		LVR,TRIG
33	82-ZM1-305-210		SPR-E,TRIG 2
34	82-ZM1-225-210		GEAR,FR
35	82-ZM1-216-510		GEAR,REEL
36	82-ZM1-226-010		GEAR,REW
37	82-ZM1-338-110		BELT,FR 4
38	82-ZM1-348-110		FLY-WHL,L W
39	82-ZM1-349-110		FLY-WHL,R W
40	82-ZM1-354-010		BELT,SBU MAIN2 EPDM
41	82-ZM1-636-010		CONN ASSY,9P
42	87-045-347-010		MOT,SHU2L 70
43	82-ZM1-247-210		PULLEY,MOTOR
44	82-ZM1-223-010		GEAR,PLAY
45	82-ZM3-333-310		SLIP DISK ASSY 2
46	82-ZM3-616-010		RING MAGNET 4
47	82-ZM1-220-210		GEAR,IDLER
48	82-ZM1-322-010		SPR-T,FR 60
49	82-ZM1-635-010		SOL ASSY,23
A	82-ZM1-283-310		S-SCREW,AZIMUTH
B	82-ZM1-315-010		S-SCREW GUIDE TAPE
C	80-ZM6-207-010		V+1.6-7
D	87-741-073-410		UT2+2.6-6 GLD
E	87-251-070-410		U+2.6-3
F	82-ZM3-334-010		PW 2.16-6-0.4
G	87-B10-008-010		W-P,2.08-8-0.4-SLIP
H	80-ZM6-243-010		SH 1.75-3.6-0.5 SLT

CD MECHANISM EXPLODED VIEW 1 / 1



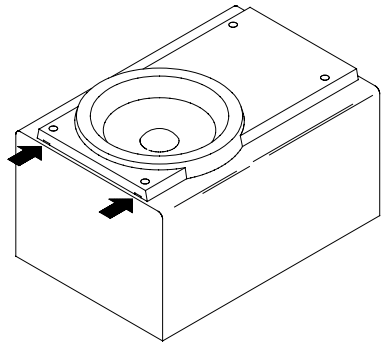
CD MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	S3-031-110-030		EARTH SPR
2	S3-031-110-180		L.P SPRING(L)
3	S3-031-110-010		FRONT BRKT
4	S3-031-113-010		LDG MOTOR ASSY
5	S3-031-110-190		L.P SPRING(R)
6	S3-031-110-050		SUPPORT PL
7	S3-031-110-080		GR MT BLK
8	S9-W03-302-760		NW BLUE 2.9-5-0.3
9	S3-031-110-360		LDG ROLLER(P)
10	S3-031-110-100		LDG GR(3)
11	S3-031-110-090		LDG GR(2)
12	S3-031-110-290		LDG BELT
13	S3-031-113-020		LDG RLR SFT ASSY
14	S9-W07-250-300		LUMIL AR W 2.3-9.8-0.25
15	S3-031-110-120		LDG GR(5)
16	S3-031-050-300		NUT PUSH SPR PL(M)
17	S3-031-050-290		PU M NUI(M)
18	S6-904-160-010		PICK-UP VED0375-TN
19	S3-031-053-040		FEED SCREW(M)ASSY
20	S3-031-050-320		PU SHAFT(M)
21	S3-031-050-330		THRUST SPR(M)
22	S3-031-050-210		LOCK PIN
23	S3-031-050-220		LOCK PIN BL
24	S3-031-050-760		F.M. BASE(A)
25	S3-031-053-010		FEED MOTOR ASSY
26	S3-031-050-280		FD GR BLK(M)
27	S3-030-050-100		PU GEAR(B)
28	S3-031-010-570		UPPER PL(A)
29	S3-031-110-240		SW ACTR
30	S3-031-010-090		SEL ARM (L)
31	S3-031-010-110		S ARM SPRING
32	S3-031-010-080		SEL STOP PL
33	S3-031-010-100		SEL ARM (R)
34	S3-031-010-250		S.L ARM SPRING
35	S3-031-010-240		S.L ARM
36	S3-031-010-580		FIX ARM(R)A
37	S3-031-010-380		LDG GR(6)B
38	S3-031-010-220		LDG GR(6)SPRING
39	S3-031-010-370		FIX PL(R)B
40	S3-031-010-340		FIX ARM(L)B
41	S3-031-010-500		FIX PL(L)Z
42	S3-031-050-310		FD SCREW(M)
43	S3-031-010-520		HUNG UP SPRING(A)
44	S3-031-050-240		DAMPER(J)
45	S3-031-010-020		REAR D BRKT
46	S3-031-010-150		TRIG PL SPRING
47	S3-031-010-160		TRIG ARM
48	S3-031-010-120		TRIG LVR
49	S3-031-010-140		TRIG PL
50	S3-031-010-030		DAMPER PIN
51	S3-031-050-360		STOPPER SPR
52	S3-031-050-190		8CM STOPPER SPR PL
53	S3-031-050-230		CLAMPER PLATE
54	S3-031-050-150		CLAMPER
55	S3-031-050-740		CLP ARM(A)
56	S3-031-050-410		8CM STOPPER(M)
57	S3-031-050-140		CLP ARM SPRING
58	S3-031-050-250		CLP ARM SPR(L)
59	S3-031-050-700		D.S ARM COLLAR
60	S3-031-050-720		SP COLLAR
61	S3-031-050-710		D.S ARM SPR
62	S3-031-055-010		DISC SUPPORT ARM ASSY
63	S9-W02-500-900		PW CUT 2.1-4-0.5
64	S3-031-010-530		HUNG DOWN SPRING(A)
65	S3-031-053-050		SPINDLE MOTOR(M)ASSY
66	S3-031-050-730		T.T.BASE(A)
67	S3-031-010-010		FRAME
A	87-841-034-410		CAMERA B TAPPING SCREW M2-5
B	87-741-033-410		CAMERA SCREW TS.G M2-4
C	S9-C04-205-030		CAMERA S TAPPING SCREW M2-5
D	87-267-525-310		CAMERA SCREW M1.7-2.2
E	87-263-036-010		CAMERA TAPPING SCREW B 3 M2-8
F	S9-C42-202-010		CAMERA TAPPING SCREW S 3 M2-2
G	S9-C45-175-030		CAMERA TAPPING SCREW P3 M1.7-5
H	87-351-549-310		CAMERA TAPPING SCREW B 3 M2-4
I	S9-P02-200-310		TAMS SCREW M2-3

SPEAKER DISASSEMBLY INSTRUCTIONS

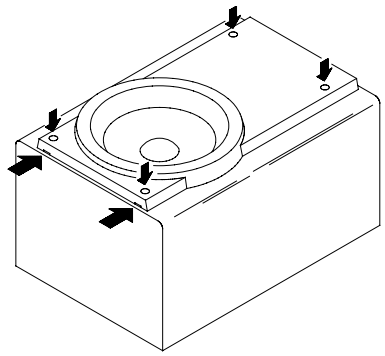
Type.1

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.



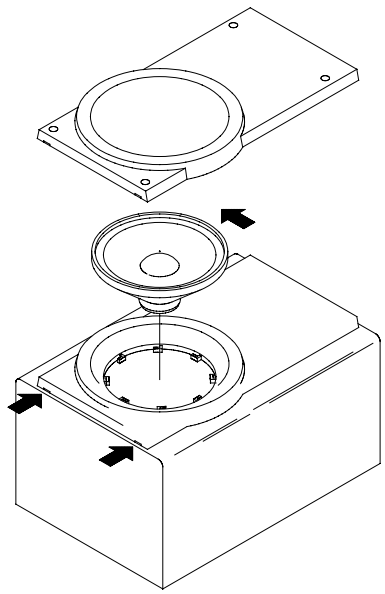
Type.2

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.

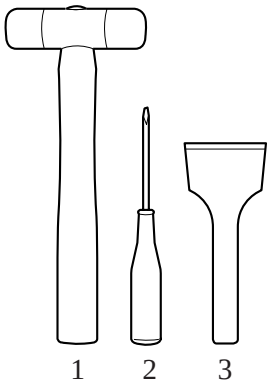


Type.3

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 1 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.

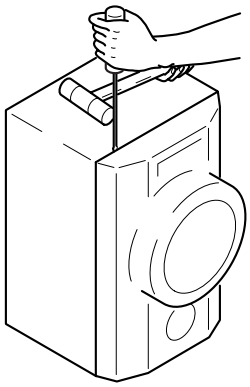


Fig-1

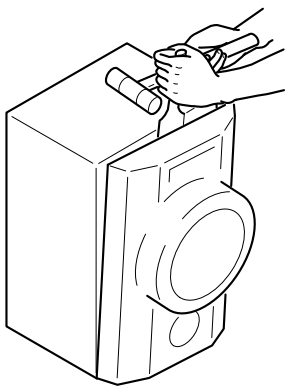


Fig-2

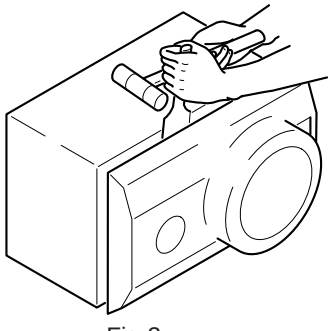


Fig-3

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-MS7>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CJ5-422-010		GRILLE,FRAME ASSY Y<EZ>
1	8A-CL5-404-010		GRILLE,FRAME ASSY B<U>
2	8A-CJ5-409-010		FASTENER
3	8A-CJ5-405-010		PANEL,SP<EZ>
3	8A-CL5-408-010		PANEL,SP B<U>
4	8A-CJ5-417-010		SPKR, TW 25
5	8A-CJ5-411-010		SPKR, W 87S<EZ>
5	8A-CL5-406-010		SPKR, W 87SI<U>
6	8A-CJ5-403-010		PANEL,FR<EZ>
6	8A-CL5-403-010		PANEL,FR B<U>
7	8Z-SSM-005-010		BOSS,CATCHER

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-CL5-913-010		IB,U(ESF)M<U>
1	8A-CL5-916-010		IB,EZ(9L)M<EZ>
2	8A-CL5-950-010		RC-AAT03<EZ>
2	8A-CL5-954-010		RC UNIT,RC-ATT03(B)<U>
3	87-006-225-010		ANT,LOOP ANT NC2
4	87-A90-118-010		ANT,WIRE FM(Z)<EZ>
4	87-043-115-010		ANT,FEEDER FM<U>

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