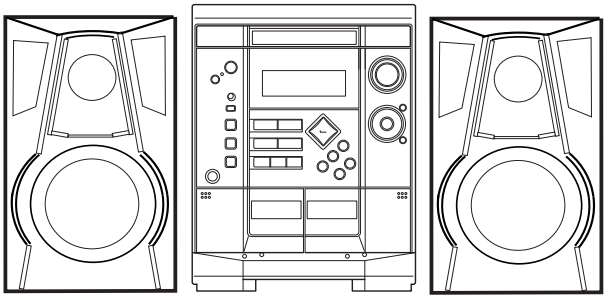
aiwa SERVICE

NSX-AJ500 U
NSX-AJ503 U
NSX-SZ500 LH,EZ
NSX-SZ505 EZ



SERVICE MANUAL

COMPACT DISC
STEREO SYSTEM

BASIC TAPE MECHANISM : ZZM-3 PR1NF
BASIC CD MECHANISM : BZG-5 YKZD3NF

SYSTEM	CD CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-AJ500<U>	CX-NAJ500	SX-NAJ502	RC-ZAS02
NSX-AJ503<U>	CX-NAJ503	SX-NAJ502, SX-R145	
NSX-SZ500<LH,EZ>	CX-NSZ500	SX-NSZ502	
NSX-SZ505<EZ>	CX-NSZ505		

- This Service Manual is the “Supplement” and replaces “Simple Manual” of NSX-AJ500(U)/SZ500(LH,EZ)/AJ503(U), (S/M Code No. 09-011-440-6T1) and NSX-SZ505(EZ), (S/M Code No. 09-011-440-6T2).
- This Service Manual contains information about the difference between NSX-AJ500(U)/AJ503(U)/SZ500(LH)/SZ500(EZ)/SZ505(EZ) and NSX-AJ300(U)/AJ305(U)/SZ300(LH)/SZ300(EZ)/SZ305(EZ). If requiring the other information, see Service Manual of NSX-AJ300/AJ305/SZ300/SZ305 (U,LH,EZ), (S/M Code No. 09-012-440-5R1).
- If requiring information about the CD mechanism, see Service Manual of BZG-5, (S/M Code No. 09-00C-353-3N2).

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S/M Code No. 09-012-440-6S1

SUPPLEMENT DATA

SPECIFICATIONS

Main unit CX-NAJ500/CX-NAJ503/CX-NSZ500/CX-NSZ505

<FM tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	U,LH: 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	Rated 500U: 80 W + 80 W (50 Hz – 20 kHz, THD less than 1 %, 6 ohms) 503U: 70 W + 70 W (50 Hz – 20 kHz, THD less than 1 %, 6 ohms) LH: 85 W + 85 W (1 kHz, THD 1 %, 6 ohms) EZ: 56 W + 56 W (6 ohms, THD 1 %, 1 kHz/DIN 45500) Reference 500U: 100 W + 100 W (1 kHz, THD less than 10 %, 6 ohms) 503U: 95 W + 95 W (1 kHz, THD less than 10 %, 6 ohms) LH: 100 W + 100 W (1 kHz, THD 10 %, 6 ohms) EZ: 70 W + 70 W (6 ohms, THD 10 %,1 kHz/DIN 45324) EZ: DIN MUSIC POWER: 205 W + 205 W
Total harmonic distortion	500U: 0.08 % (40 W, 1 kHz, 6 ohms, DIN AUDIO) 503U: 0.08 % (35 W, 1 kHz, 6 ohms, DIN AUDIO) LH: 0.08 % (40 W, 1 kHz, 6 ohms, DIN AUDIO) EZ: 0.08 % (25 W, 1 kHz, 6 ohms, DIN AUDIO)
Inputs	VIDEO/AUX: 500 mV
Outputs	SPEAKERS: 6 ohms or more SURROUND SPEAKERS <503U> 8 ohms to 16 ohms PHONES: 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	50 Hz – 15 kHz
Recording system	AC bias
Heads	Deck 1: Playback x 1 Deck 2: Recording/Playback x 1, erase 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)

<General>

Power requirements	U: 120 V AC, 60 Hz LH: 120 V/220-230 V/240 V AC (switchable), 50/60 Hz EZ: 230 V AC, 50 Hz
Power consumption	500U: 80 W 503U: 105 W LH: 100 W EZ: 90 W
Power consumption in standby mode	With ECO mode on: 0.6 W With ECO mode off: 20 W
Dimensions of main unit (W x H x D)	260 x 326 x 340 mm ($10^{1}/_{4}$ x $12^{7}/_{8}$ x $13^{1}/_{2}$ in.)
Weight of main unit	500U: 6.7 kg (14 lbs 12 oz.) 503U: 7.3 kg (16 lbs 2 oz.) LH: 7.1 kg EZ: 6.4 kg

Front Speakers SX-NAJ502/SX-NSZ502

<U: SX-NAJ502>
<LH,EZ: SX-NSZ502>

Speaker system	3 way, bass reflex (magnetic shielded type)
Speaker units	Woofer: 160 mm ($6^{3}/_{8}$ in.) cone Tweeter: 60 mm ($2^{3}/_{8}$ in.) cone Super tweeter: 20 mm ($^{13}/_{16}$ in.) ceramic
Impedance	6 ohms
Dimensions (W x H x D)	230 x 324 x 253 mm ($9^{1}/_{8}$ x $12^{7}/_{8}$ x 14 in.)
Weight	U: 3.5 kg (7 lbs 11 oz.) LH: 4.5 kg EZ: 4.3 kg

Surround Speakers SX-R145 (NSX-AJ503 only)

Speaker system	1 way, bass reflex
Speaker units	Full range: 80 mm ($3^{1}/_{4}$ in.) cone
Impedance	8 ohms
Dimensions (W x H x D)	100 x 132 x 116 mm (4 x $5^{1}/_{4}$ x $4^{5}/_{8}$ in.)
Weight	0.5 kg (1 lbs 2 oz.)

• Design and specifications are subject to change without notice.

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ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A21-419-040		C-IC,NJM14558MD-TE2
	87-A21-893-040		C-IC,NJM14558V-TE2
	87-A21-695-010		IC,LA1845L
	87-A21-928-010		IC,LC72131D-N
	87-A20-440-040		C-IC,BU1920FS<505EZ>
	87-A21-218-110		IC,NJL64H380A
	87-A21-401-040		C-IC,M61503FP
	8B-NF9-602-030		C-IC,UPD780228GF-078-3BA<505EZ>
	8B-NF9-601-030		C-IC,UPD780226GF-021-3BA<U,LH,500EZ>
	87-A21-269-010		IC,EW732
TRANSISTOR			
	87-A30-559-010		TR,CSB1370EF
	87-A30-492-080		TR,2SC5343G<U,505EZ>
	87-A30-076-080		C-TR,2SC3052F
	87-A30-075-080		C-TR,2SA1235F
	87-A30-107-070		C-TR,CMBT5401
	87-A30-484-080		C-TR,KRA102S
	87-026-610-080		TR,KTC3198GR<LH,500EZ>
	87-A30-190-080		TR,CC5551
	87-A30-106-040		C-TR,CMBT5551
	87-A30-162-010		FET,2SK2937
	87-A30-091-080		FET,2SJ460
	87-A30-090-080		FET,2SK2541
	87-A30-062-080		C-TR,KRC104S
	87-A30-495-080		TR,2SA1981Y
	87-A30-234-080		TR,CSC4115BC
	89-327-143-080		C-TR,2SC2714(O)
	87-A30-489-080		C-TR,KRA107S
	89-503-602-080		C-FET,2SK360E
	87-A30-086-040		C-TR,CSD1306E<505EZ>
	87-A30-494-080		TR,2SA1980G
	87-A30-528-010		TR,2SB1686
	87-A30-529-010		TR,2SD2642
	87-A30-087-080		C-FET,2SK2158
	87-A30-074-080		C-TR,RT1P141C
	87-A30-582-080		TR,CDA1585BC
	87-A30-468-080		C-TR,KRC102S-RTK
	87-A30-615-080		TR,STC250<LH,500EZ>
	87-A30-490-080		C-TR,KRC107S
DIODE			
	87-A40-393-090		DIODE,1N5402GW(F20)
	87-A40-553-080		DIODE,1N4003 LES
	87-A40-776-080		ZENER,UZ27BSD
	87-A40-764-080		ZENER,UZ10BSC
	87-A40-270-080		C-DIODE,MC2838
	87-A40-269-080		C-DIODE,MC2836
	87-A40-291-080		DIODE,1N4148M(CPT)
	87-A40-749-080		ZENER,UZ5.6BSB
	87-017-149-080		ZENER,HZS6A2L
	87-A40-454-090		DIODE,1N5393 GW 12.5<EZ>
	87-A40-747-080		ZENER,UZ5.1BSB
	87-A40-739-080		ZENER,UZ2.7BSA
	87-A40-748-080		ZENER,UZ5.6BSA
	87-A40-455-090		DIODE,RL203GW<EZ>
MAIN C.B			
C3	87-012-368-080		C-CAP,S 0.1-50 Z F
C4	87-012-368-080		C-CAP,S 0.1-50 Z F
C5	87-012-368-080		C-CAP,S 0.1-50 Z F
C6	87-012-368-080		C-CAP,S 0.1-50 Z F
C9	87-010-759-080		C-CAP,U 0.1-25 Z F
C10	87-010-759-080		C-CAP,U 0.1-25 Z F
C11	87-010-759-080		C-CAP,U 0.1-25 Z F
C12	87-010-759-080		C-CAP,U 0.1-25 Z F
C19	87-A12-382-000		CAP, E 2200-63 M 85<500U,LH,EZ>
C19	87-A12-776-090		CAP, E 2200-50 M 85 SKR<503U>
C20	87-A12-382-000		CAP, E 2200-63 M 85<500U,LH,EZ>
C20	87-A12-776-090		CAP, E 2200-50 M 85 SKR<503U>
C21	87-A12-777-090		CAP, E 3300-25 M 85 SKR<500U>
C21	87-A12-778-090		CAP, E 3300-35 M 85 SKR<503U,LH,EZ>
C22	87-A12-778-090		CAP, E 3300-35 M 85 SKR
C25	87-A12-072-080		CAP, E 100-25 SMG
C26	87-A12-072-080		CAP, E 100-25 SMG
C27	87-A12-072-080		CAP, E 100-25 SMG
C28	87-A12-072-080		CAP, E 100-25 SMG
C30	87-A12-095-080		CAP, E 100-50 SMG<500U,EZ>
C30	87-010-430-080		CAP, E 100-63<503U,LH>
C31	87-A12-062-080		CAP,E 100-10 SMG
C32	87-012-286-080		C-CAP, U 0.01-25
C33	87-A12-062-080		CAP,E 100-10 SMG<U>
C34	87-A12-072-080		CAP, E 100-25 SMG
C35	87-A12-071-080		CAP, E 47-25 SMG
C36	87-A12-067-080		CAP, E 330-16 SMG
C38	87-012-286-080		C-CAP, U 0.01-25
C60	87-A12-089-080		CAP,E 3.3-50 SMG
C61	87-A12-071-080		CAP,E 47-25 SMG
C83	87-A12-074-080		CAP, E 470-25 SMG<U,LH,500EZ>
C83	87-A12-068-080		CAP, E 470-16 SMG<505EZ>
C97	87-010-831-080		C-CAP,U 0.1-16 Z F
C101	87-012-279-080		C-CAP,U 2700P-50 B
C102	87-012-279-080		C-CAP,U 2700P-50 B
C103	87-A12-084-080		CAP,E 0.022-50 SMG
C104	87-A12-084-080		CAP,E 0.022-50 SMG
C105	87-012-277-080		C-CAP,U 1800P-50 K B GRM
C106	87-012-277-080		C-CAP,U 1800P-50 K B GRM
C107	87-A12-089-080		CAP,E 3.3-50 SMG
C108	87-A12-089-080		CAP,E 3.3-50 SMG
C109	87-012-195-080		C-CAP,U 100P-50 CH<EZ>
C110	87-012-195-080		C-CAP,U 100P-50 CH<EZ>
C111	87-A12-077-080		CAP,E 33-35 SMG
C112	87-A12-077-080		CAP,E 33-35 SMG
C113	87-A10-596-080		C-CAP,S 100P-100 J CH<500U,LH,EZ>
C113	87-010-322-080		C-CAP,S 100P-50 J CH<503U>
C114	87-A10-596-080		C-CAP,S 100P-100 J CH<500U,LH,EZ>
C114	87-010-322-080		C-CAP,S 100P-50 J CH<503U>
C117	87-A12-368-080		C-CAP,S 0.1-50 Z F
C118	87-A12-368-080		C-CAP,S 0.1-50 Z F
C119	87-012-286-080		C-CAP,U 0.01-25
C120	87-012-286-080		C-CAP,U 0.01-25
C123	87-010-177-080		C-CAP,S 820P-25 J SL C2012
C124	87-010-177-080		C-CAP,S 820P-25 J SL C2012
C133	87-012-282-080		C-CAP,U 4700P-50
C140	87-012-278-080		C-CAP,U 2200P-50
C186	87-010-759-080		C-CAP,U, 0.1-25F
C187	87-010-866-080		CAP,E 10-63 M VX<500U,LH,EZ>
C187	87-A12-091-080		CAP,E 10-50 SMG<503U>
C188	87-010-866-080		CAP,E 10-63 M VX<500U,LH,EZ>
C188	87-A12-091-080		CAP,E 10-50 SMG<503U>
C223	87-012-272-080		C-CAP,U 680P-50 B<EZ>
C224	87-012-272-080		C-CAP,U 680P-50 B<EZ>
C225	87-012-368-080		C-CAP,S 0.1-50 Z F<500U,LH,EZ>
C225	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<503U>
C226	87-012-368-080		C-CAP,S 0.1-50 Z F<500U,LH,EZ>
C226	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<503U>
C227	87-012-368-080		C-CAP,S 0.1-50 Z F<500U,LH,EZ>
C227	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<503U>
C228	87-012-368-080		C-CAP,S 0.1-50 Z F<500U,LH,EZ>
C228	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<503U>
C229	87-012-191-080		C-CAP,U 0.015-50 Z F GRM<EZ>
C230	87-012-191-080		C-CAP,U 0.015-50 Z F GRM<EZ>
C231	87-012-286-080		CAP, U 0.01-25<EZ>
C232	87-012-286-080		CAP, U 0.01-25<EZ>
C235	87-A12-094-080		CAP,E 47-50 SMG<503U>
C236	87-A12-094-080		CAP,E 47-50 SMG<503 U>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C241	87-010-831-080		C-CAP,U 0.1-16 Z F
C301	87-012-275-080		C-CAP,U 1200P-50 K B GRM
C302	87-012-275-080		C-CAP,U 1200P-50 K B GRM
C303	87-012-275-080		C-CAP,U 1200P-50 K B GRM
C304	87-012-275-080		C-CAP,U 1200P-50 K B GRM
C307	87-A12-062-080		CAP,E 100-10 SMG
C308	87-A12-062-080		CAP,E 100-10 SMG
C309	87-012-188-080		C-CAP,U 47P-50 J CH
C310	87-012-188-080		C-CAP,U 47P-50 J CH
C313	87-012-284-080		CAP, U 6800P-50
C314	87-012-284-080		CAP, U 6800P-50
C315	87-A12-062-080		CAP,E 100-10 SMG
C317	87-A12-085-080		CAP,E 0.33-50 SMG
C318	87-A12-085-080		CAP,E 0.33-50 SMG
C326	87-010-787-080		C-CAP,U 0.022-25 K B
C327	87-010-831-080		C-CAP,U 0.1-16 Z F
C350	87-012-286-080		C-CAP,U 0.01-25 K B<EZ>
C360	87-A12-087-080		CAP,E 1-50 SMG
C399	87-A10-039-080		C-CAP, U 470P-50 J CH
C401	87-A12-083-080		CAP,E 0.1-50 SMG
C402	87-A12-083-080		CAP,E 0.1-50 SMG
C403	87-012-193-080		C-CAP,U 82P-50 CH
C404	87-012-193-080		C-CAP,U 82P-50 CH
C405	87-012-286-080		CAP, U 0.01-25
C406	87-012-286-080		CAP, U 0.01-25
C407	87-012-286-080		CAP, U 0.01-25
C408	87-012-286-080		CAP, U 0.01-25
C409	87-012-278-080		C-CAP,U 2200P-50 B
C410	87-012-278-080		C-CAP,U 2200P-50 B
C411	87-A12-091-080		CAP,E 10-50 SMG
C412	87-A12-091-080		CAP,E 10-50 SMG
C452	87-A12-069-080		CAP,E 22-25 SMG
C453	87-012-279-080		C-CAP,U 2700P-50 B
C454	87-012-279-080		C-CAP,U 2700P-50 B
C455	87-012-279-080		C-CAP,U 2700P-50 B
C456	87-012-286-080		CAP, U 0.01-25
C457	87-A12-361-080		CAP,M 5600P-100 J CP
C458	87-012-274-080		CHIP CAP,U 1000P-50B
C459	87-012-271-080		CAP, U 560P-50
C460	87-010-831-080		C-CAP,U 0.1-16 Z F
C461	87-012-158-080		C-CAP,S 390P-50 J CH GRM
C462	87-012-158-080		C-CAP,S 390P-50 J CH GRM
C470	87-A11-104-080		CAP,TC U 470P-50 J CH<U>
C470	87-018-127-080		CAP,CER 470P-50V<LH,EZ>
C605	87-012-280-080		C-CAP,U 3300P-50 K B
C606	87-012-280-080		C-CAP,U 3300P-50 K B
C609	87-010-785-080		C-CAP,U 0.015-25 K B GRM
C610	87-010-785-080		C-CAP,U 0.015-25 K B GRM
C611	87-A12-084-080		CAP,E 0.22-50 SMG
C612	87-A12-084-080		CAP,E 0.22-50 SMG
C613	87-A12-084-080		CAP,E 0.22-50 SMG
C614	87-A12-084-080		CAP,E 0.22-50 SMG
C615	87-012-172-080		CAPACITOR CHIP U 10P CH
C616	87-016-459-080		CAP,E 470-10 M SMG
C617	87-016-459-080		CAP,E 470-10 M SMG
C618	87-A12-091-080		CAP,E 10-50 SMG
C620	87-A12-062-080		CAP,E 100-10 SMG
C623	87-A12-372-080		CAP,M 0.047-100 JP
C624	87-A12-372-080		CAP,M 0.047-100 JP
C630	87-A10-260-080		C-CAP,U 0.1-16 K B
C631	87-012-281-080		C-CAP,U 3900P-50 K B GRM
C632	87-012-281-080		C-CAP,U 3900P-50 K B GRM
C633	87-A11-070-080		C-CAP,U 0.033-16 K B
C634	87-A11-070-080		C-CAP,U 0.033-16 K B
C661	87-012-336-080		C-CAP,U 330P-50 J SL
C662	87-012-336-080		C-CAP,U 330P-50 J SL
C669	87-012-274-080		C-CAP,U 1000P-50 K B<EZ>
C670	87-012-274-080		C-CAP,U 1000P-50 K B<EZ>
C677	87-012-286-080		CAP, U 0.01-25
C771	87-A12-062-080		CAP,E 100-10 SMG
C772	87-012-286-080		CAP, U 0.01-25
C779	87-010-949-080		C-CAP,S 0.01-50 J B<EZ>
C780	87-010-949-080		C-CAP,S 0.01-50 J B<EZ>
C782	87-012-286-080		CAP, U 0.01-25
C783	87-012-286-080		CAP, U 0.01-25
C784	87-012-286-080		CAP, U 0.01-25
C785	87-012-286-080		CAP, U 0.01-25
C786	87-012-286-080		CAP, U 0.01-25
C788	87-012-167-080		C-CAP,U 5P-50 CH
C789	87-A12-052-080		C-CAP,S 0.033-25 J B<U,LH>
C789	87-016-118-080		C-CAP,U 0.022-25 J B GRM<EZ>
C790	87-A12-052-080		C-CAP,S 0.033-25 J B<U,LH>
C790	87-016-118-080		C-CAP,U 0.022-25 J B GRM<EZ>
C791	87-010-831-080		C-CAP,U,0.1-16F
C792	87-012-286-080		CAP, U 0.01-25
C793	87-A12-090-080		CAP,E 4.7-50 SMG
C795	87-012-286-080		CAP, U 0.01-25
C796	87-012-286-080		CAP, U 0.01-25
C797	87-A12-091-080		CAP,E 10-50 SMG
C798	87-012-286-080		CAP, U 0.01-25
C799	87-A12-093-080		CAP,E 33-50 SMG
C800	87-010-829-080		CAP, U 0.047-16
C801	87-A12-089-080		CAP,E 3.3-50 SMG
C802	87-010-829-080		CAP, U 0.047-16
C803	87-010-787-080		CAP, U 0.022-25 K B
C804	87-A12-062-080		CAP,E 100-10 SMG
C807	87-A12-086-080		CAP,E 0.47-50 SMG
C808	87-A12-087-080		CAP,E 1-50 SMG
C809	87-A12-087-080		CAP,E 1-50 SMG
C810	87-010-831-080		C-CAP,U,0.1-16F
C814	87-012-286-080		CAP, U 0.01-25
C815	87-A12-086-080		CAP,E 0.47-50 SMG
C816	87-A12-086-080		CAP,E 0.47-50 SMG
C818	87-012-276-080		C-CAP,U 1500P-50 K B<EZ>
C821	87-A12-091-080		CAP,E 10-50 SMG
C823	87-010-177-080		C-CAP,S 820P-50 J SL C2012<U,LH>
C823	87-A10-915-080		C-CAP,U 1000P-25 J CH<EZ>
C824	87-A12-090-080		CAP,E 4.7-50 SMG
C825	87-010-596-080		C-CAP,S 0.047-16 K R C2012
C831	87-A12-092-080		CAP,E 22-50 SMG<EZ>
C842	87-012-286-080		CAP, U 0.01-25
C844	87-012-286-080		CAP, U 0.01-25
C850	87-A12-071-080		CAP,E 47-25 SMG
C851	87-012-286-080		CAP, U 0.01-25
C852	87-012-286-080		CAP, U 0.01-25
C853	87-012-286-080		CAP, U 0.01-25
C858	87-010-831-080		C-CAP,U 0.1-16 Z F
C859	87-010-831-080		C-CAP,U 0.1-16 Z F<EZ>
C860	87-012-286-080		C-CAP,U 0.01-25 K B<EZ>
C869	87-012-286-080		C-CAP,U 0.01-25 K B<505EZ>
C870	87-012-274-080		C-CAP,U 1000P-50 K B<505EZ>
C871	87-012-199-080		C-CAP,U 220P-50 J CH<505EZ>
C872	87-012-199-080		C-CAP,U 220P-50 J CH<505EZ>
C873	87-A10-039-080		C-CAP,U 470P-50 J CH<505EZ>
C874	87-A12-091-080		CAP,E 10-50 SMG<505EZ>
C875	87-010-759-080		C-CAP,U 0.1-25 Z F<505EZ>
C876	87-A12-091-080		CAP,E 10-50 SMG
C877	87-012-286-080		C-CAP,U 0.01-25 K B<505EZ>
C878	87-012-184-080		C-CAP,U 33P-50 J CH<505EZ>
C879	87-012-180-080		C-CAP,U 22P-50 J CH<505EZ>
C901	87-018-145-080		CAP,TC-U 6.8P-50 CH<U,LH>
C904	87-012-286-080		C-CAP,U 0.01-25<U,LH>
C905	87-012-286-080		C-CAP,U 0.01-25<U,LH>
C907	87-012-286-080		C-CAP,U 0.01-25<U,LH>
C908	87-A10-915-080		C-CAP,U 1000P-25 J CH<U,LH>
C909	87-012-286-080		C-CAP,U 0.01-25<U,LH>
C910	87-012-174-080		C-CAP,U 12P-50 J CH<U,LH>
C911	87-012-170-080		C-CAP,U 8P-50 CH<U,LH>
C912	87-012-195-080		C-CAP,U 100P-50CH<U,LH>
C913	87-012-286-080		C-CAP,U 0.01-25<U,LH>

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C914	87-012-166-080		C-CAP,U 4P-50 C CH<U,LH>
C915	87-012-174-080		C-CAP,U 12P-50 J CH<U,LH>
C916	87-012-180-080		C-CAP,U 22P-50 CH<U,LH>
C917	87-012-186-080		C-CAP,U 39P-50 CH<U,LH>
C918	87-A10-039-080		C-CAP,U 470P-50 J CH<U,LH>
C921	87-012-195-080		C-CAP,U 100P-50CH<U,LH>
C922	87-012-174-080		C-CAP,U 12P-50 J CH CHJ<U,LH>
C940	87-012-286-080		C-CAP,U 0.01-25 K B<EZ>
C942	87-012-165-080		C-CAP,U 3P-50 C CH<EZ>
C947	87-012-286-080		C-CAP,U 0.01-25 K B<EZ>
C948	87-A10-039-080		C-CAP,U 470P-50 J CH<EZ>
C952	87-012-286-080		C-CAP,U 0.01-25 K B<EZ>
C957	87-012-174-080		C-CAP,U 12P-50 J CH<EZ>
C958	87-012-286-080		C-CAP,U 0.01-25 K B<EZ>
C959	87-010-831-080		C-CAP,U,0.1-16F
C960	87-010-831-080		C-CAP,U,0.1-16F
C961	87-012-167-080		C-CAP,U 5P-50 CH<U,LH>
C962	87-A12-087-080		CAP,E 1-50 SMG<EZ>
C963	87-015-785-080		CHIP CAPACITOR, 0.1-25 Z F
C971	87-A12-067-080		CAP,E 330-16 SMG
C972	87-A12-090-080		CAP,E 4.7-50 SMG
C973	87-012-286-080		CAP, U 0.01-25
C974	87-012-286-080		CAP, U 0.01-25
C979	87-012-195-080		C-CAP,U 100P-50CH
C981	87-A12-071-080		CAP,E 47-25 SMG
C982	87-010-831-080		C-CAP,U,0.1-16F
C983	87-012-286-080		CAP, U 0.01-25 K B
C984	87-012-286-080		CAP, U 0.01-25 K B
C985	87-012-195-080		C-CAP,U 100P-50 J CH<EZ>
C987	87-012-286-080		CAP, U 0.01-25 K B
C989	87-012-286-080		C-CAP, U 0.01-25 K B<EZ>
C991	87-012-176-080		C-CAP,U 15P-50 J CH
C992	87-012-176-080		C-CAP,U 15P-50 J CH
C993	87-012-274-080		CHIP CAP,U 1000P-50B
C995	87-012-274-080		CHIP CAP,U 1000P-50B
C997	87-010-831-080		C-CAP,U,0.1-16F
C998	87-A12-071-080		CAP,E 47-25 SMG
C999	87-A11-155-080		CAP,TC U 0.01-16 Z F
CF831	87-008-261-010		FILTER, SFE10.7MA5-A<U,LH>
CF831	87-008-423-010		FILTER, CF SFE10.7MS3G-A<EZ>
CF832	87-008-261-010		FILTER, SFE10.7MA5-A<U,LH>
CF832	82-785-747-010		CF,MS2 GHY,R<EZ>
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
CNA001	8A-NF8-653-010		CONN ASSY,9P TID-A(480)<503U,LH>
D902	87-A40-128-080		C-VARI-CAP,HVU202A<U,LH>
D903	87-A40-128-080		C-VARI-CAP,HVU202A<U,LH>
FC602	88-906-251-110		FF-CABLE, 6P 1.25
FFE831	A8-6ZA-19M-030		6ZA-1 YFEMENM<EZ>
J201	87-A61-480-010		JACK,DIA 6.3BLK ST W/SW
J203	87-A60-238-010		TERMINAL,SP 4P (MSC)
J205	87-A60-881-010		JACK,PIN 2P MSP 242V05 PBSN<503U>
J602	87-A60-881-010		JACK,PIN 2P MSP 242V05 PBSN
J831	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02<U,LH>
J832	87-A60-403-010		TERMINAL,ANT PAL 2P HSP-312V05<EZ>
JR123	87-A10-596-080		C-CAP,S 100P-100 J CH<500U,LH,EZ>
JR123	87-010-322-080		C-CAP,S 100P-50 J CH<503U>
JR124	87-A10-596-080		C-CAP,S 100P-100 J CH<500U,LH,EZ>
JR124	87-010-322-080		C-CAP,S 100P-50 J CH<503U>
L201	87-A50-610-010		COIL,1UH K(MDEC)
L202	87-A50-610-010		COIL,1UH K(MDEC)
L451	87-007-342-010		COIL,OSC 85KHZ BIAS
L801	87-A50-608-010		COIL,FM DET-N(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 K CECS<505EZ>
L902	88-ZA1-602-110		COIL,FM-RF-U2 2G<U,LH>
L903	88-ZA1-601-010		COIL,FM-RF-U1 2G<U,LH>
L904	87-005-847-080		COIL,2.2UH(CECS)<U,LH>
L905	88-ZA1-624-010		COIL,FM IFT 7-6.2 (COILS)<U,LH>
L906	88-ZA1-603-010		COIL,FM-OSC-U 2G<U,LH>
L941	87-A50-020-010		COIL,ANT LW (COI) 252KHZ<EZ>
L942	87-A50-019-010		COIL,OSC LW (COI) 856KHZ<EZ>
L951	8A-NF8-667-010		COIL,AM PACK 4(TOK)<U,LH>
L951	8A-NF8-668-010		COIL,AM PACK 2(TOK)<EZ>
R129	87-A00-262-080		RES,M/F 0.15-2W J<U,LH>
R129	87-A00-257-080		RES,M/F 0.15-1W J<EZ>
R130	87-A00-262-080		RES,M/F 0.15-2W J<U,LH>
R130	87-A00-257-080		RES,M/F 0.15-1W J<EZ>
R131	87-A00-262-080		RES,M/F 0.15-2W J<U,LH>
R131	87-A00-257-080		RES,M/F 0.15-1W J<EZ>
R132	87-A00-262-080		RES,M/F 0.15-2W J<U,LH>
R132	87-A00-257-080		RES,M/F 0.15-1W J<EZ>
R243	87-A00-439-050		RES,180-1/2W J RP<500U,LH>
R243	87-A00-440-050		RES,220-1/2W J RP<503U,EZ>
R244	87-A00-439-050		RES,180-1/2W J RP<500U,LH>
R244	87-A00-440-050		RES,220-1/2W J RP<503U,EZ>
R245	87-A00-439-050		RES,180-1/2W J RP<500U,LH>
R245	87-A00-441-050		RES,270-1/2W J RP<503U>
R245	87-A00-440-050		RES,220-1/2W J RP<EZ>
R246	87-A00-439-050		RES,180-1/2W J RP<500U,LH>
R246	87-A00-441-050		RES,270-1/2W J RP<503U>
R246	87-A00-440-050		RES,220-1/2W J RP<EZ>
R790	87-012-286-080		CAP, U 0.01-25
R991	87-012-195-080		C-CAP,U 100P-50CH
R993	87-012-195-080		C-CAP,U 100P-50CH
R995	87-012-195-080		C-CAP,U 100P-50CH
SFR451	87-024-355-080		SFR,33K H EVN DJAA03
SFR452	87-024-355-080		SFR,33K H EVN DJAA03
TC942	87-A91-774-080		TRIMMER, PLY 30P 6.8X5.4 CDYL<EZ>
TH101	87-A91-042-080		C-THMS,100K 55001
TH102	87-A91-042-080		C-THMS,100K 55001
WH1	87-A90-510-010		HLDR,WIRE 2.5-9P
W99	8A-NF9-609-010		F-CABLE,9P 2.5 480MM<500U,EZ>
X862	87-A70-307-010		VIB,XTAL 4.332MHZ CSA-309ST<505EZ>
X992	87-A70-306-010		VIB,XTAL 4.500MHZ CSA-309ST

FRONT C.B

C108	87-010-785-080		C-CAP,U 0.015-25 K B GRM
C153	87-010-787-080		C-CAP,U 0.022-25 K B
C154	87-A12-078-040		CAP,E 47-35 SMG
C155	87-010-404-040		CAP,E 4.7-50 M 11L SME
C156	87-010-404-040		CAP,E 4.7-50 M 11L SME
C301	87-012-278-080		C-CAP,U 2200P-50 K B
C351	87-A10-353-080		C-CAP,U 0.22-10 K B
C361	87-012-274-080		C-CAP,U 1000P-50 K B
C362	87-012-274-080		C-CAP,U 1000P-50 K B
C371	87-012-274-080		C-CAP,U 1000P-50 K B
C372	87-012-274-080		C-CAP,U 1000P-50 K B
C601	87-010-382-040		CAP,E 22-25 SME
C801	87-A10-804-080		C-CAP,S 0.1-25 J B
C802	87-010-316-080		C-CAP,S 33P-50 J CH GRM
C803	87-012-280-080		C-CAP,U 3300P-50 K B
C804	87-A10-592-080		C-CAP,S 0.015-50 J B
C805	87-012-184-080		C-CAP,U 33P-50 J CH
C806	87-012-274-080		C-CAP,U 1000P-50 K B
C807	87-012-274-080		C-CAP,U 1000P-50 K B
C808	87-010-544-040		CAP,E 0.1-50 M 11L SME
C809	87-010-404-040		CAP,E 4.7-50 SME
C810	87-016-114-080		C-CAP,U 0.01-25 J B GRM
C811	87-A12-052-080		C-CAP,S 0.033-25 J B
C901	87-012-195-080		C-CAP,U 100P-50 CH
C902	87-012-195-080		C-CAP,U 100P-50 CH
C903	87-012-195-080		C-CAP,U 100P-50 CH
C904	87-012-195-080		C-CAP,U 100P-50 CH
C905	87-012-195-080		C-CAP,U 100P-50 CH

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C906	87-012-195-080		C-CAP,U 100P-50 CH
C907	87-012-195-080		C-CAP,U 100P-50 CH
C908	87-012-195-080		C-CAP,U 100P-50 CH
C909	87-012-195-080		C-CAP,U 100P-50 CH
C910	87-012-195-080		C-CAP,U 100P-50 CH
C911	87-012-274-080		C-CAP,U 1000P-50 K B
C912	87-010-831-080		C-CAP,U 0.1-16 Z F
C913	87-A10-189-040		CAP,E 220-10 M 5L
C914	87-A10-189-040		CAP,E 220-10 M 5L
C915	87-010-831-080		C-CAP,U 0.1-16 Z F
C916	87-010-831-080		C-CAP,U 0.1-16 Z F
C917	87-010-831-080		C-CAP,U 0.1-16 Z F
C919	87-012-286-080		C-CAP,U 0.01-25 K B
C920	87-010-829-080		C-CAP,U 0.047-16 Z F
C921	87-012-282-080		C-CAP,U 4700P-50 K B
C951	87-012-172-080		C-CAP,U 10P-50 D CH
C952	87-010-854-080		C-CAP,S 560P-50 J CH
C953	87-012-349-080		C-CAP,S 1000P-50 J CH GRM
C961	87-010-378-040		CAP,E 10-16 M 11L SME
C962	87-012-336-080		C-CAP,U 330P-50 J SL
C963	87-010-831-080		C-CAP,U 0.1-16 Z F
CN104	87-A60-057-010		CONN,11P V 9604S-11C
CN701	87-099-720-010		CONN,30P BLK TYK-B(P)
CN731	87-099-196-010		CONN,8P V BLK 6216
FC104	88-911-101-110		FF-CABLE,11P 1.25
FC731	88-908-301-110		FF-CABLE,8P 1.25
FL901	8B-NFK-605-010		FL,BJ814GNAK
L951	87-A50-655-010		COIL,CLK 4.19M (TOKO)7KLY
LED201	87-A40-606-040		LED,SLR-332VC
LED202	87-A40-606-040		LED,SLR-332VC
LED203	87-A40-606-040		LED,SLR-332VC
LED204	87-A40-606-040		LED,SLR-332VC
LED209	87-A40-317-080		LED,SLR-342VCT31 RED
S321	87-A90-095-080		SW,TACT EVQ11G04M
S322	87-A90-095-080		SW,TACT EVQ11G04M
S323	87-A90-095-080		SW,TACT EVQ11G04M
S324	87-A90-095-080		SW,TACT EVQ11G04M
S325	87-A90-095-080		SW,TACT EVQ11G04M
S326	87-A90-095-080		SW,TACT EVQ11G04M
S327	87-A90-095-080		SW,TACT EVQ11G04M
S328	87-A90-095-080		SW,TACT EVQ11G04M
S329	87-A90-095-080		SW,TACT EVQ11G04M
S330	87-A90-095-080		SW,TACT EVQ11G04M
S331	87-A90-095-080		SW,TACT EVQ11G04M
S332	87-A90-095-080		SW,TACT EVQ11G04M
S333	87-A90-095-080		SW,TACT EVQ11G04M
S334	87-A90-095-080		SW,TACT EVQ11G04M
S341	87-A90-095-080		SW,TACT EVQ11G04M
S342	87-A90-095-080		SW,TACT EVQ11G04M
S343	87-A90-095-080		SW,TACT EVQ11G04M
S344	87-A90-095-080		SW,TACT EVQ11G04M
S345	87-A90-095-080		SW,TACT EVQ11G04M
S346	87-A90-095-080		SW,TACT EVQ11G04M
S347	87-A90-095-080		SW,TACT EVQ11G04M
S348	87-A90-095-080		SW,TACT EVQ11G04M
S349	87-A90-095-080		SW,TACT EVQ11G04M
S350	87-A90-095-080		SW,TACT EVQ11G04M<505EZ>
S351	87-A90-095-080		SW,TACT EVQ11G04M<505EZ>
S352	87-A90-095-080		SW,TACT EVQ11G04M<505EZ>
S361	87-A92-056-010		SW,RTRY EC12E24504-25MM OFF
S371	87-A92-057-010		SW,RTRY EC12E12504-25MM OFF

PT C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C85	87-010-831-080		C-CAP,U 0.1-16 Z F<EZ>
CN1	87-A61-110-010		CONN,9P V TID-A<503U,LH>
⚠ PT1	8B-NFK-612-010		PT, BNF-19 U<500U>
⚠ PT1	8B-NFK-616-010		PT, BNF-19 U (SUR)<503U>
⚠ PT1	8B-NFK-615-010		PT, BNF-19 LH<LH>
⚠ PT1	8B-NFK-613-010		PT, BNF-19 EZ<EZ>
⚠ PT2	8B-NF9-661-010		PT,SUB BNF U (TAM)<503U>
⚠ PT2	8B-NF9-663-010		PT,SUB BNF H (TAM)<LH>
⚠ PT81	8B-NF9-661-010		PT,SUB BNF U (TAM)<500U>
⚠ PT81	8B-NF9-665-010		PT,SUB BNF E (TAM)<EZ>
⚠ RY1	87-A91-339-010		RELAY,AC DC12V G5PA-2<LH>
⚠ RY2	87-A91-418-010		RELAY,AC 12V G5PA-1-M<503U>
⚠ RY81	87-A91-418-010		RELAY,AC 12V G5PA-1-M<500U,EZ>
⚠ S1	87-A90-165-010		SW,SL 1-2-3 SWS2301<LH>
⚠ T1	87-A60-317-010		TERMINAL, 1P MSC<503U,LH>
⚠ T2	87-A60-317-010		TERMINAL, 1P MSC<503U,LH>
⚠ T81	87-A60-317-010		TERMINAL, 1P MSC<500U,EZ>
⚠ T82	87-A60-317-010		TERMINAL, 1P MSC<500U,EZ>
WH81	87-A90-510-010		HLDR,WIRE 2.5-9P<500U,EZ>

DECK C.B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
CN1	87-099-753-010		CONN,11P 9604
SFR1	87-024-581-010		SFR,3.3K DIA 6H
SOL1	82-ZM1-618-410		SOL ASSY, 27
SOL2	82-ZM1-618-410		SOL ASSY, 27
SW1	87-A90-673-010		SW,MICRO ESE11SH1C
SW2	87-A91-500-010		SW,MICRO MPU11470MLB0
SW3	87-A91-500-010		SW,MICRO MPU11470MLB0
SW4	87-A91-500-010		SW,MICRO MPU11470MLB0
SW5	87-A90-673-010		SW,MICRO ESE11SH1C

○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

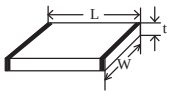
8 8 − □ □ □ □ □ □

A
抵抗部品コード
Resistor Code

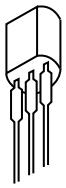
桁表示
Figure

抵抗値
Value of resistor

チップ抵抗
Chip resistor

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

TRANSISTOR ILLUSTRATION



E C B

CDA1585BC
KTC3198GR

E C B

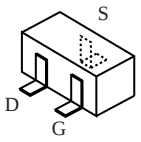
2SC5343G
CC5551
STC250

E C B

2SA1980G
2SA1981Y

E C B

CSC4115BC



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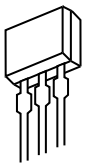

S D G

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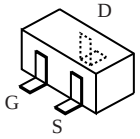
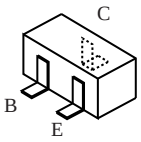
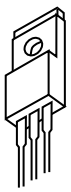


2SK2158



2SA1235F KRA107S
2SC2714(O) KRC102S-RTK
2SC3052F KRC104S
CMBT5401 KRC107S
CMBT5551 RT1P141C
CSD1306E
KRA102S



B C E

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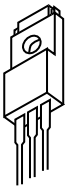
2SD2642



G D S

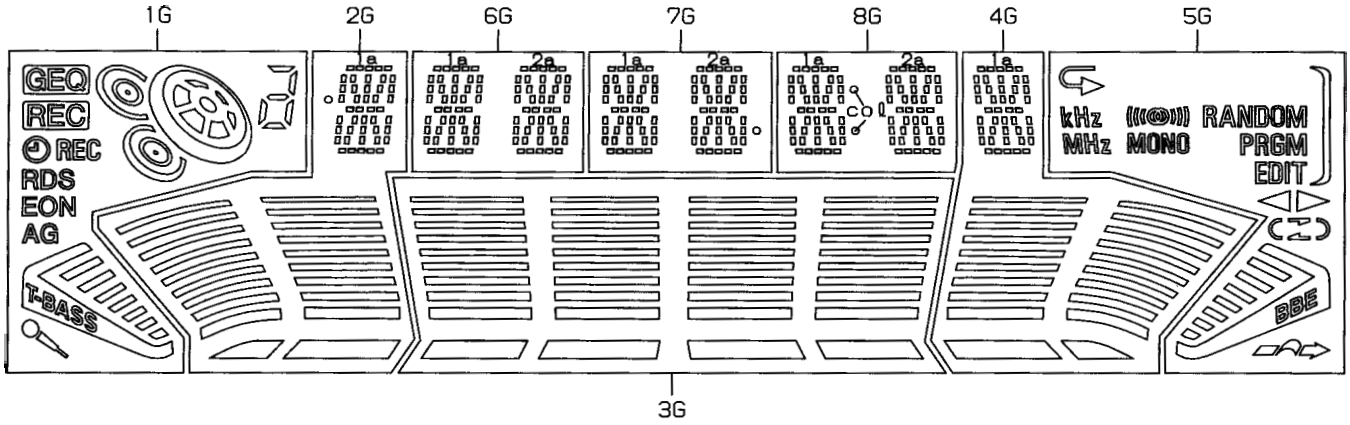
2SK2937

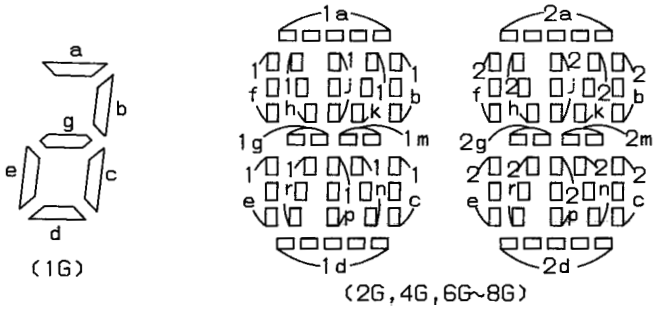
B C E

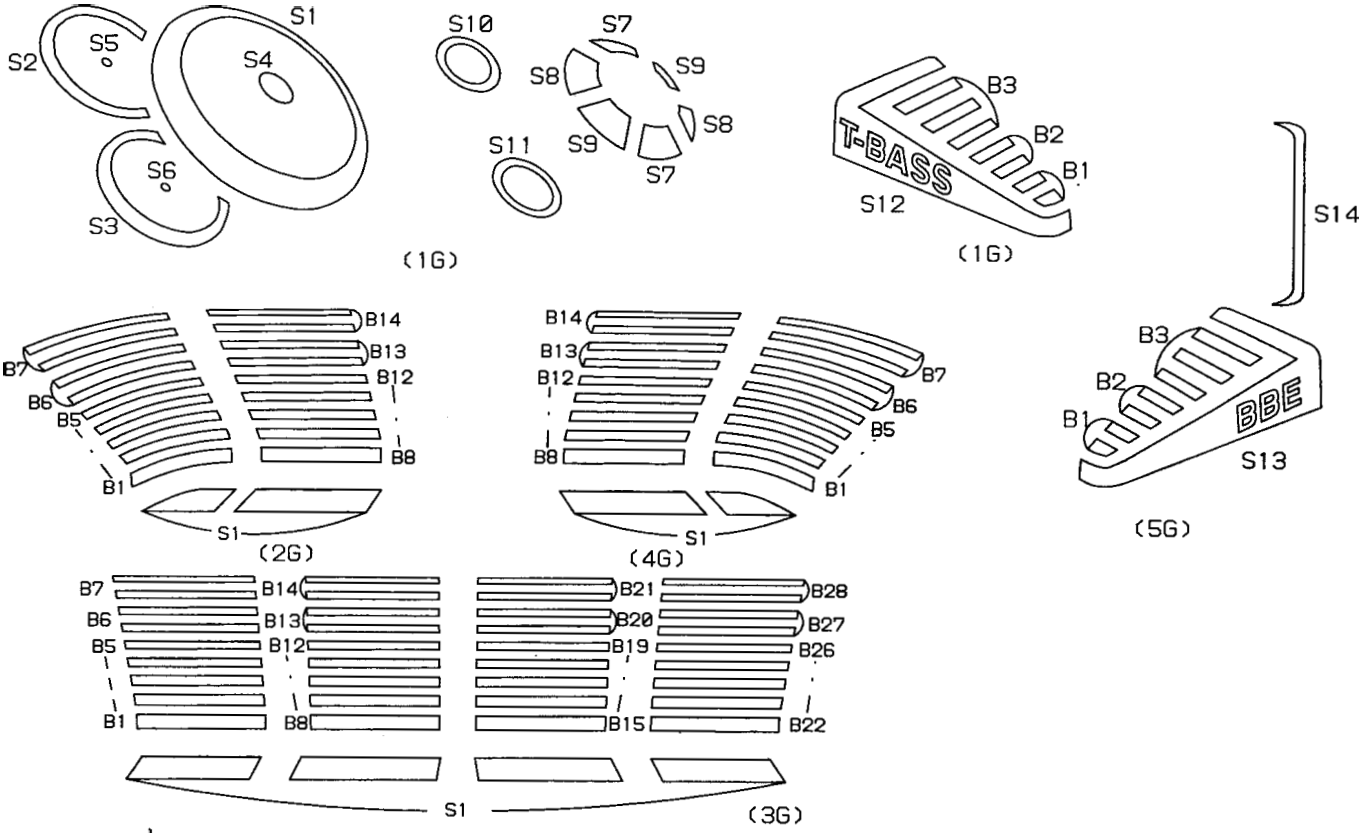
CSB1370EF

FL (BJ814GNAK) GRID ASSIGNMENT AND ANODE CONNECTION

GRID ASSIGNMENT



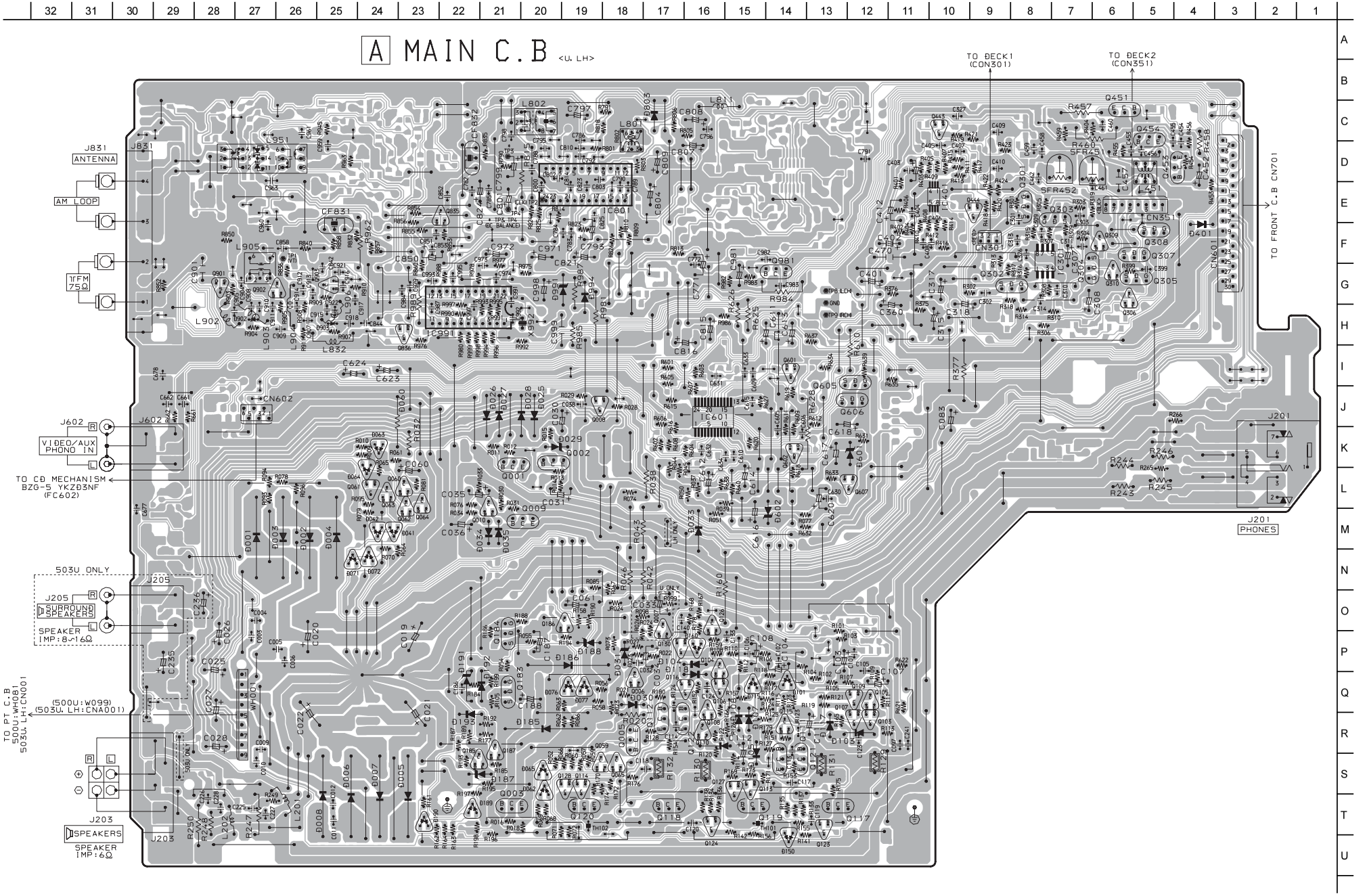




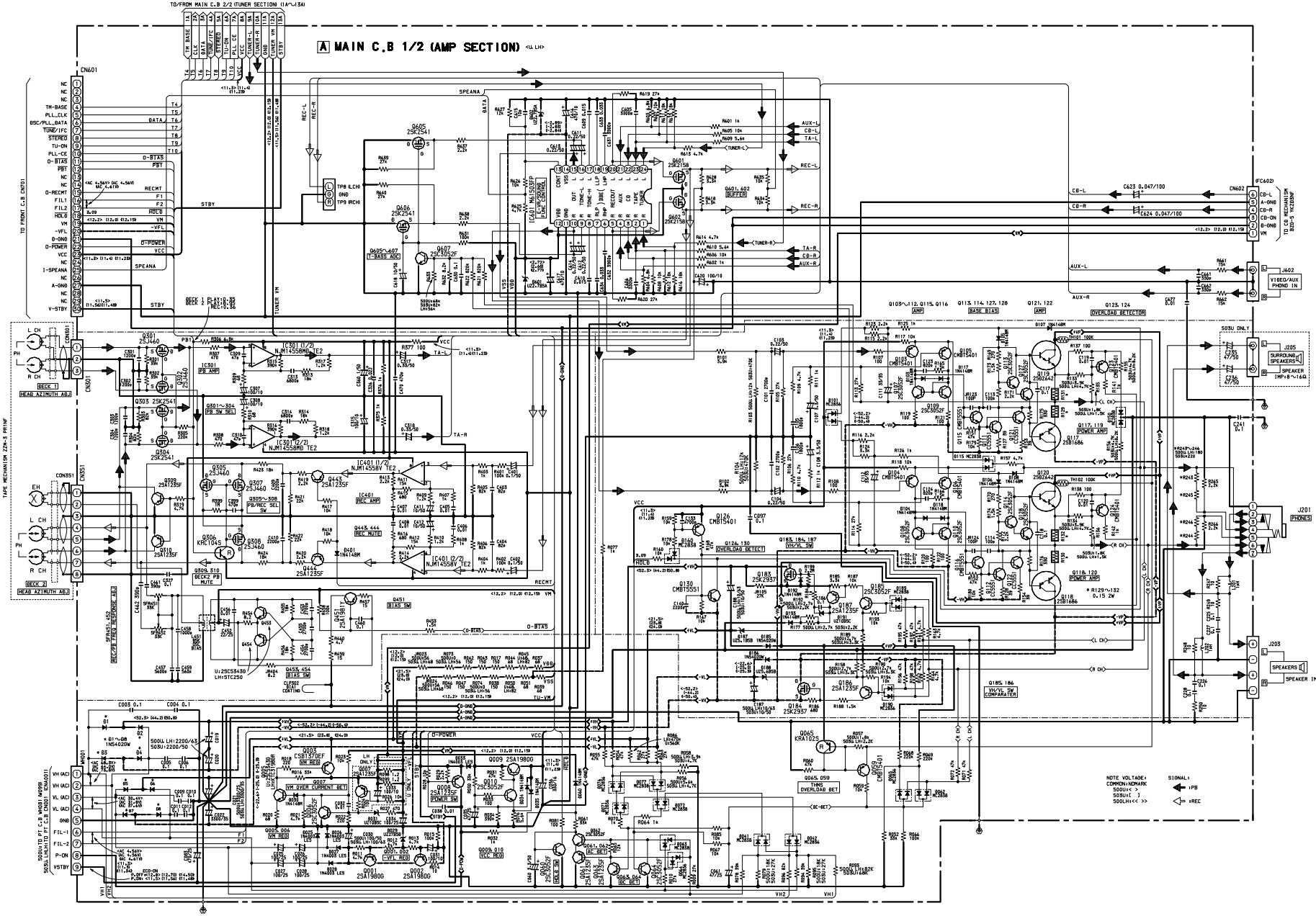
ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G
P1		B1	B1	B1		1a	1a	1a
P2	S12	B2	B2	B2	S13	1h	1h	1h
P3	B1	B3	B3	B3	B1	1j	1j	1j
P4	B2	B4	B4	B4	B2	1k	1k	1k
P5	B3	B5	B5	B5	B3	1b	1b	1b
P6	AG	B6	B6	B6		1f	1f	1f
P7	EON	B7	B7	B7		1m	1m	1m
P8	RDS	B8	B8	B8		1g	1g	1g
P9		B9	B9	B9		1c	1c	1c
P10	REC	B10	B10	B10		1e	1e	1e
P11	REC	B11	B11	B11	S14	1r	1r	1r
P12	GEQ	B12	B12	B12	EDIT	1p	1p	1p
P13	S1	B13	B13	B13	PRGM	1n	1n	1n
P14	S2	B14	B14	B14	RANDOM	1d	1d	1d
P15	S3	S1	B15	S1	MONO	2a	2a	2a
P16	S4	1a	B16	1a		2h	2h	2h
P17	S5	1h	B17	1h	–	2j	2j	2j
P18	S6	1j	B18	1j	MHz	2k	2k	2k
P19	S7	1k	B19	1k	kHz	2b	2b	2b
P20	S8	1b	B20	1b		2f	2f	2f
P21	S9	1f	B21	1f	–	2m	2m	2m
P22	S10	1m	B22	1m	–	2g	2g	2g
P23	S11	1g	B23	1g	–	2c	2c	2c
P24	a,g,d	1c	B24	1c	–	2e	2e	2e
P25	b	1e	B25	1e	–	2r	2r	2r
P26	c	1r	B26	1r	–	2p	2p	2p
P27	e	1p	B27	1p	–	2n	2n	2n
P28	–	1n	B28	1n	–	2d	2d	2d
P29	–	1d	S1	1d	–	–	○	col (UP)
P30	–	○	–	–	–	–	–	col(DOWN)

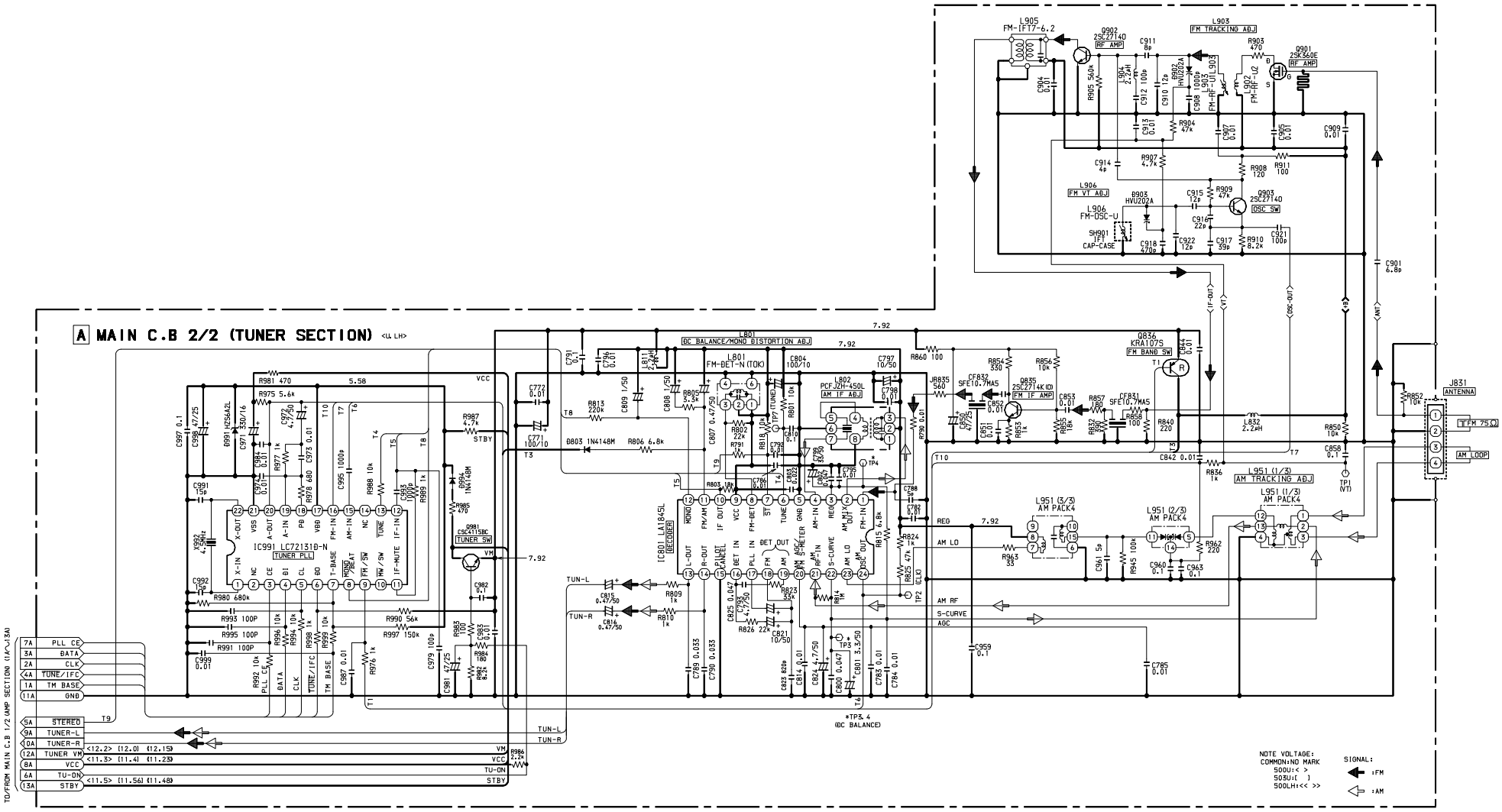
WIRING – 1 (MAIN) <U, LH>

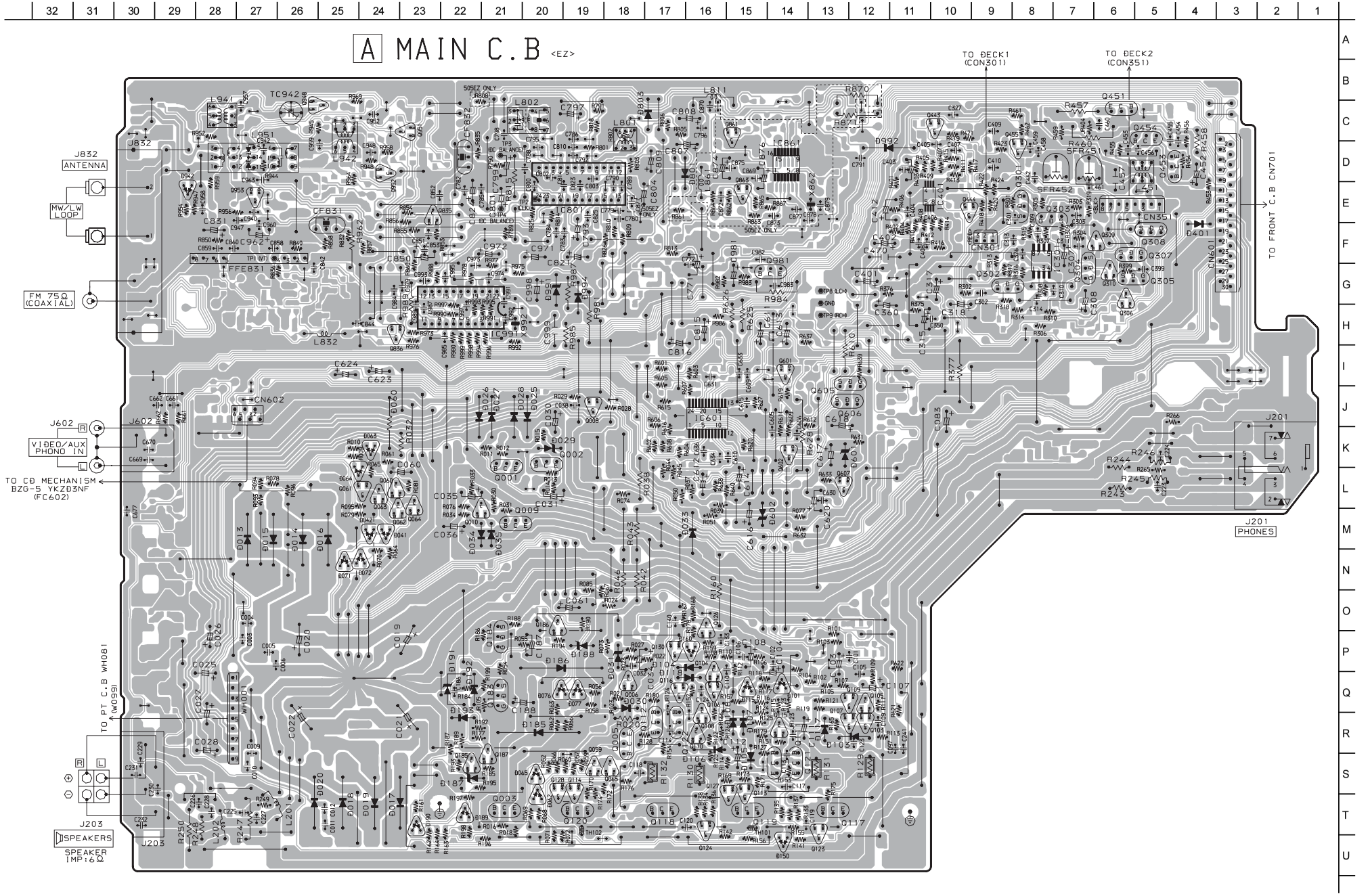


SCHEMATIC DIAGRAM – 1 (MAIN 1 / 2 : AMP) <U, LH>

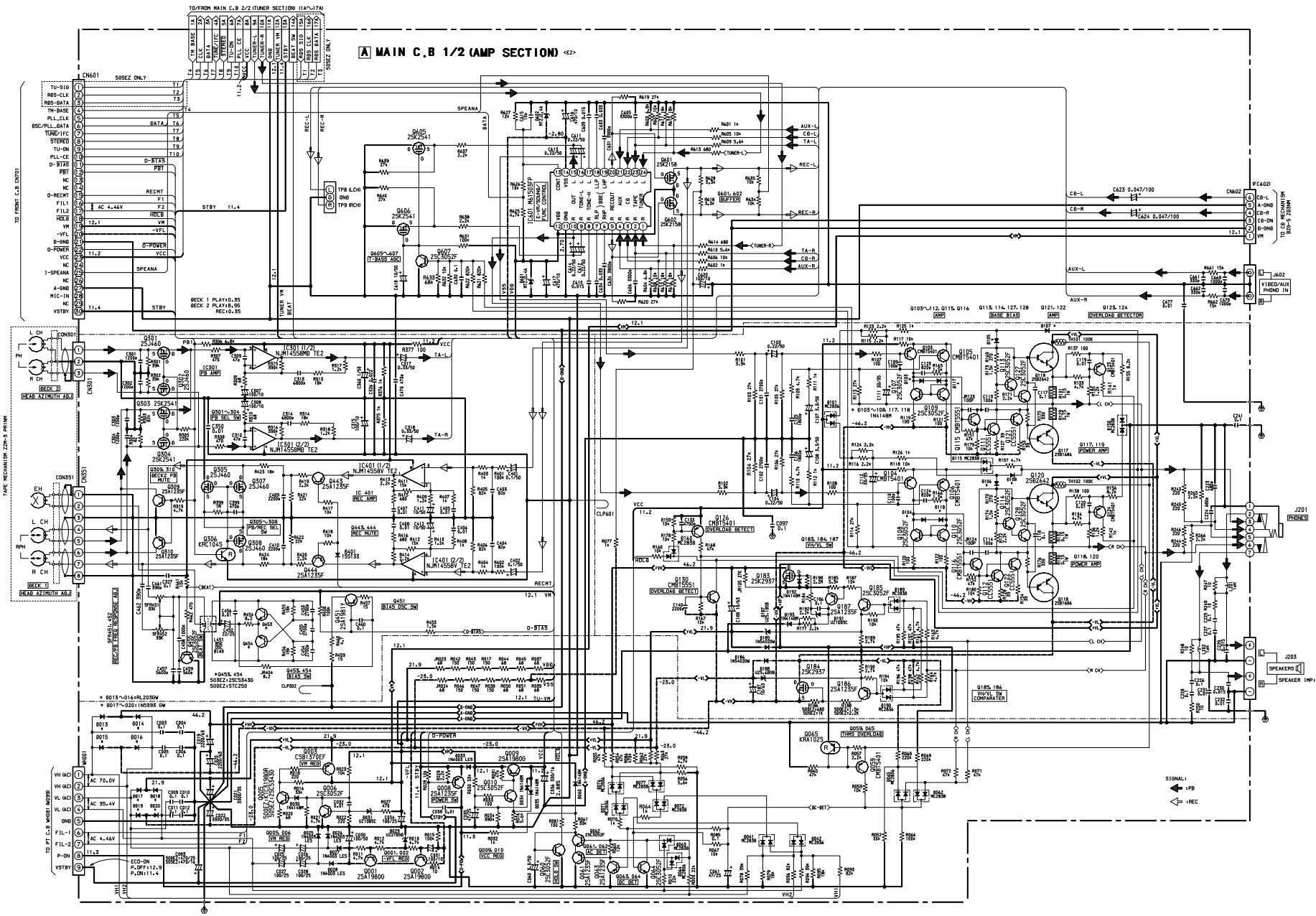


SCHEMATIC DIAGRAM – 2 (MAIN 2 / 2 : TUNER) <U, LH>

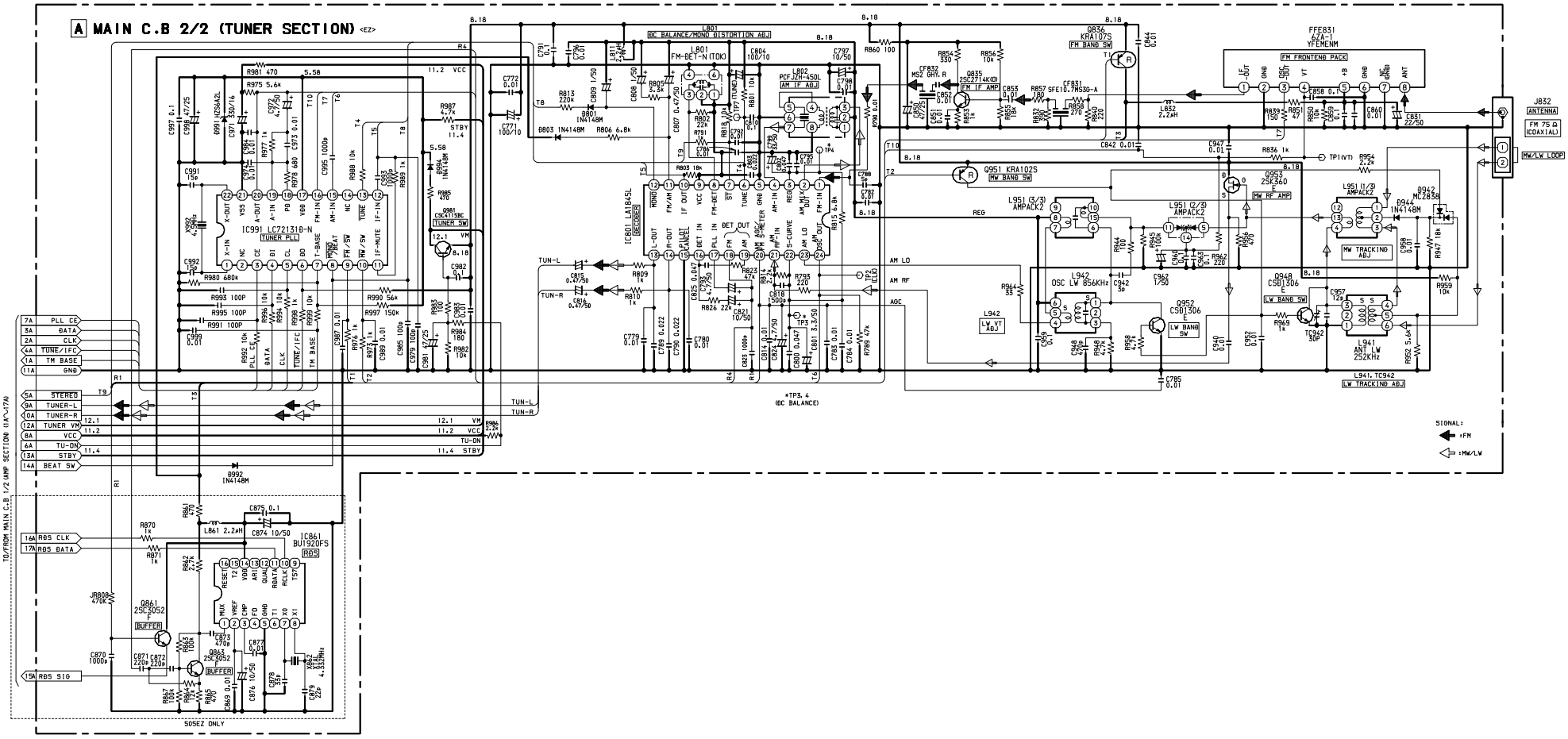


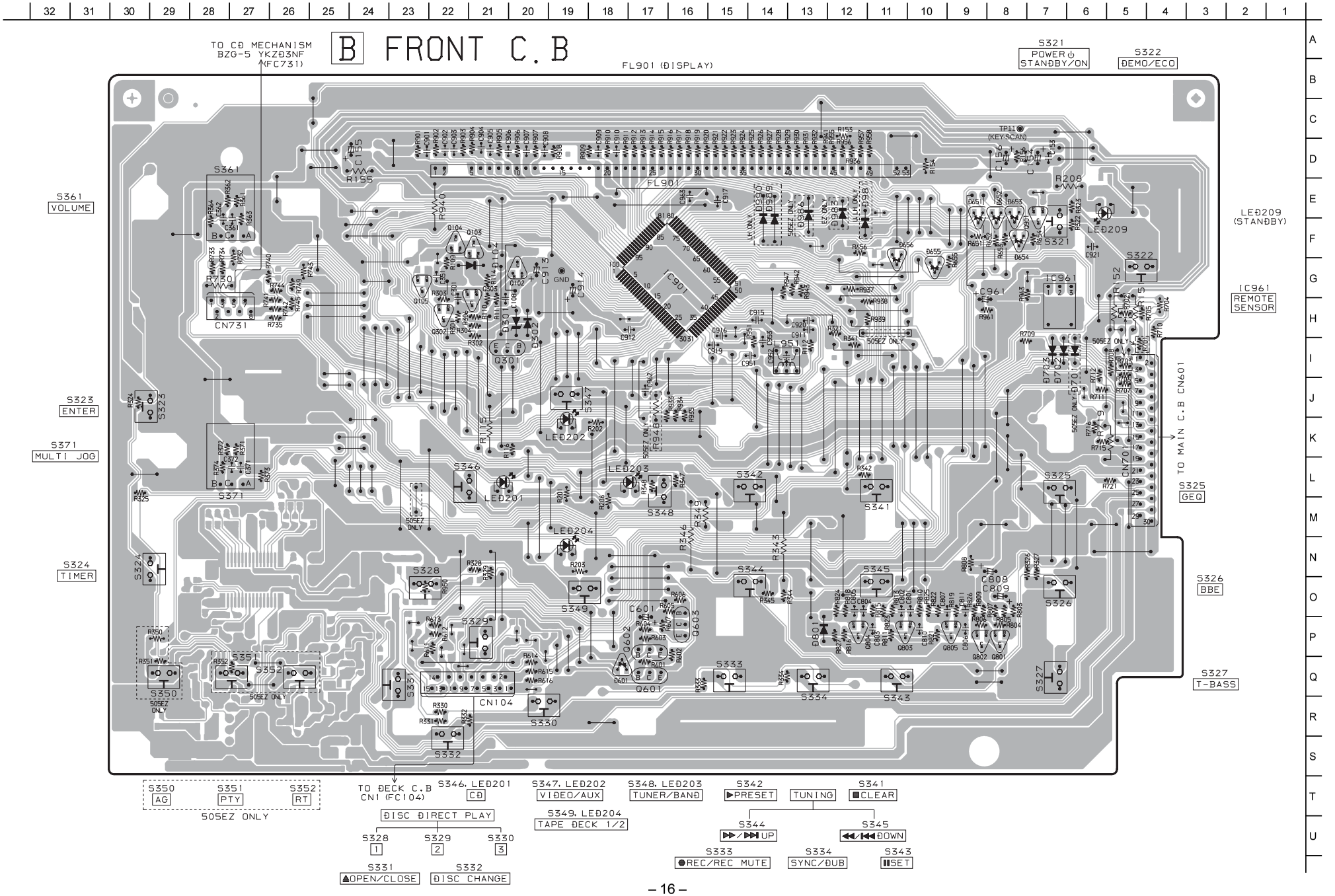

A MAIN C.B <EZ>
TO DECK1 (CON301)
TO DECK2 (CON351)
TO FRONT C.B CN701
J832 ANTENNA
MW/LW LOOP
FM 75Ω (COAXIAL)
J602 VIDEO/AUX PHONO IN
TO CD MECHANISM BZG-5 YKZD3NF (FC602)
TO PT C.B WH081 (W099)
J203 SPEAKERS
SPEAKER IMP:6Ω
J201 PHONES
505EZ ONLY

SCHEMATIC DIAGRAM – 3 (MAIN 1 / 2 : AMP) <EZ>

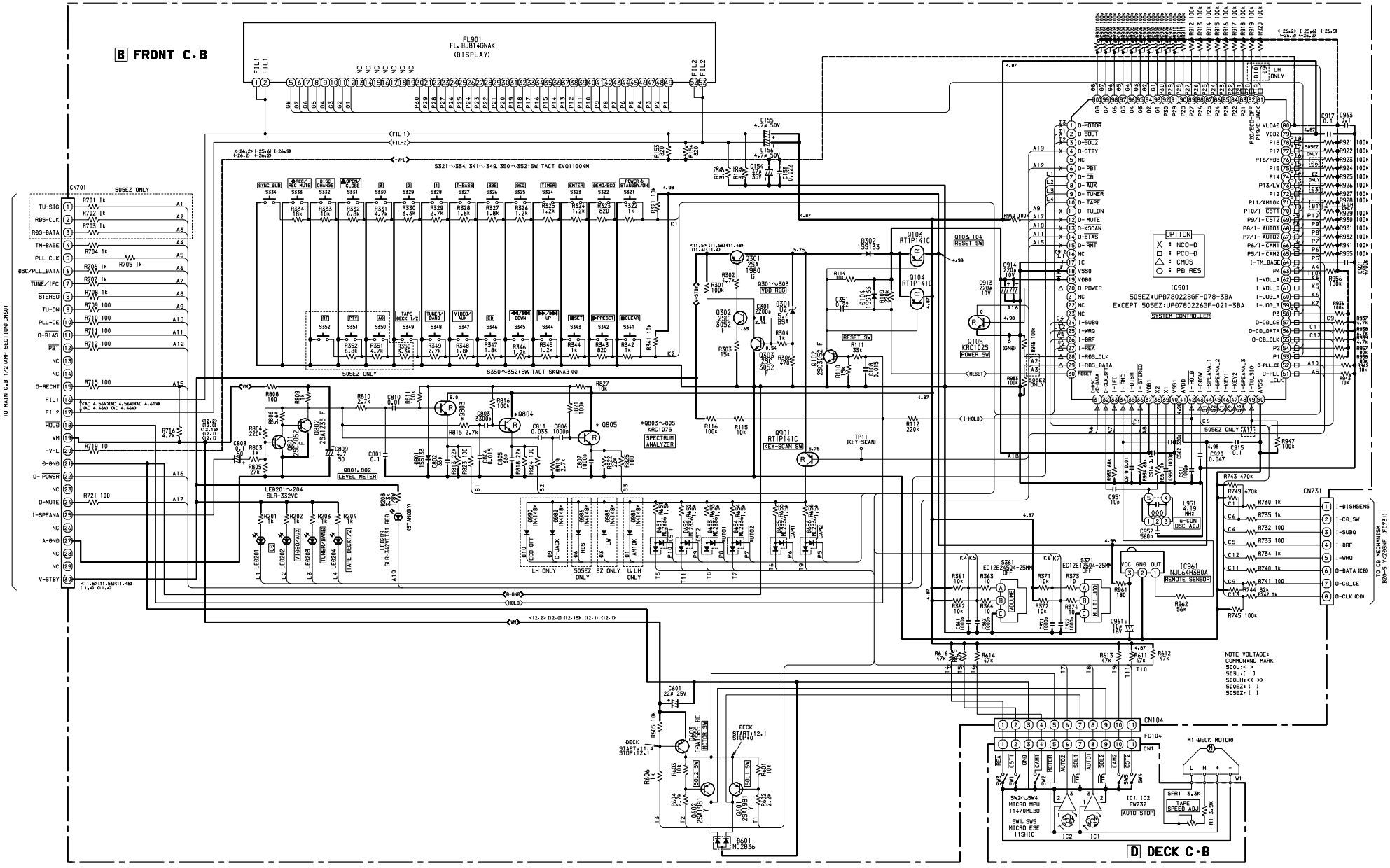


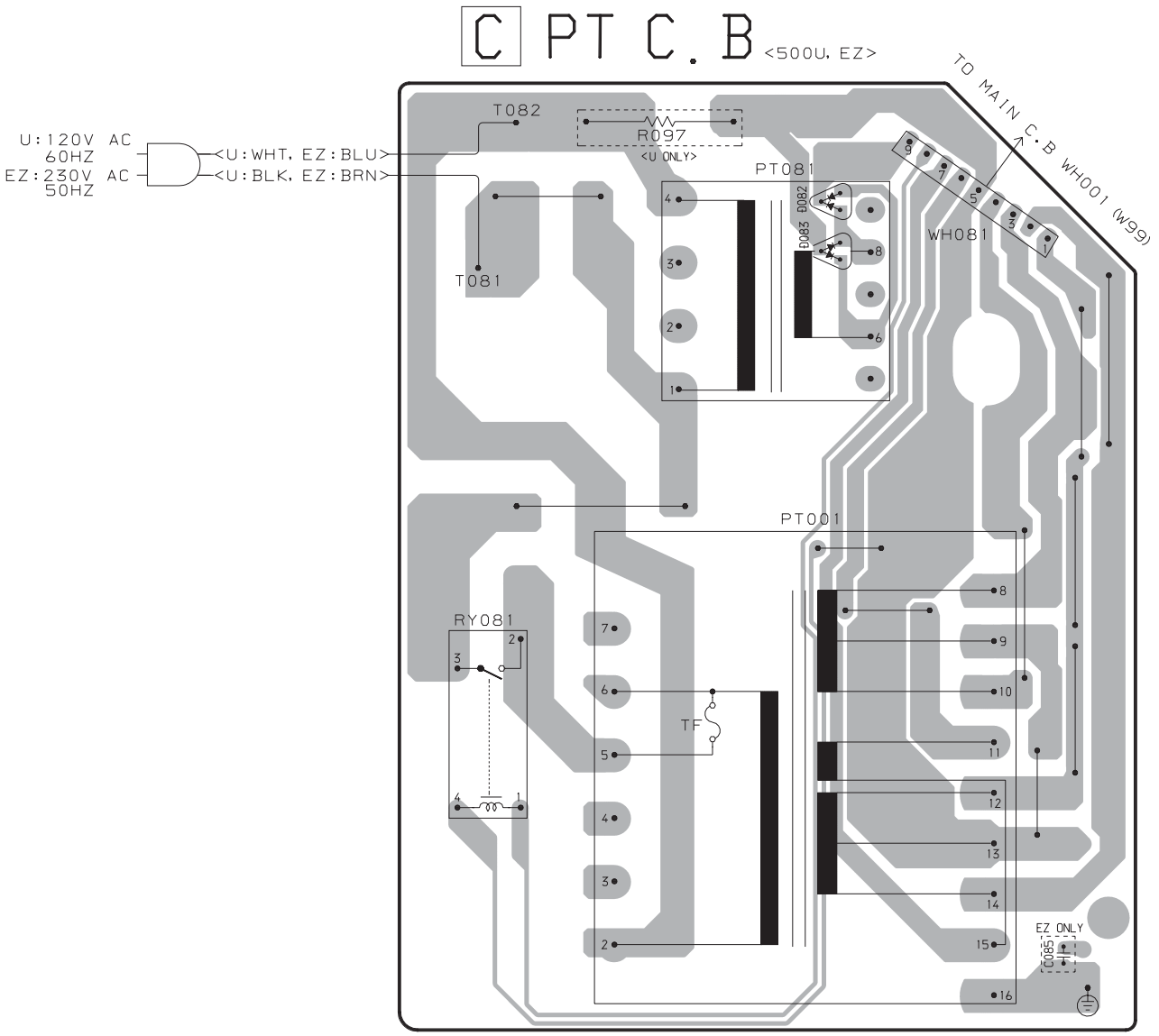
SCHEMATIC DIAGRAM – 4 (MAIN 2 / 2 : TUNER) <EZ>



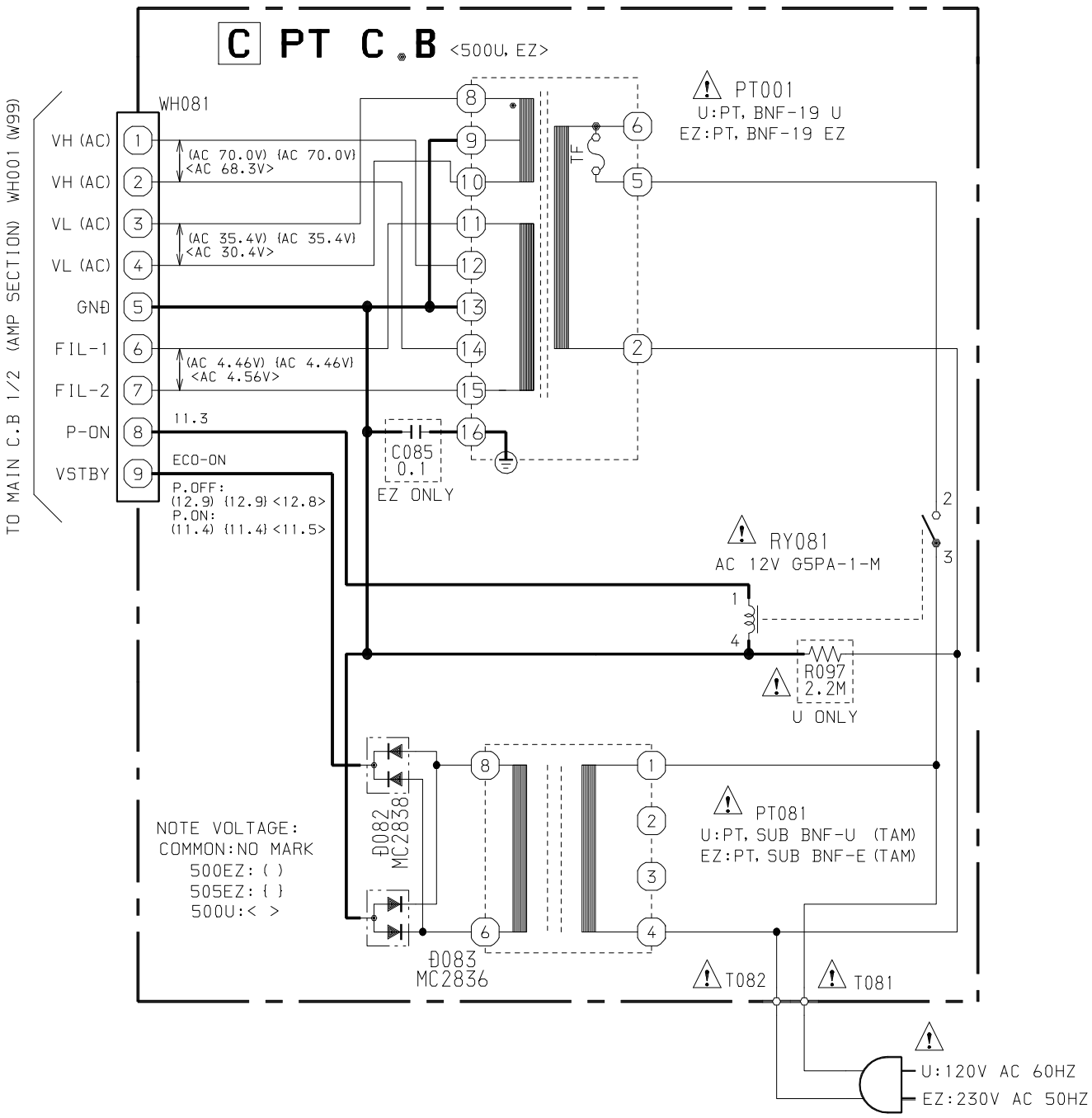

B FRONT C.B
TO CD MECHANISM BZG-5 YKZD3NF (FC731)
FL901 (DISPLAY)
S321 POWER ⏻ STANDBY/ON
S322 DEMO/ECO
LED209 (STANDBY)
IC961 REMOTE SENSOR
S361 VOLUME
S323 ENTER
S371 MULTI JOG
S324 TIMER
S325 GEQ
S326 BBE
S327 T-BASS
TO MAIN C.B CN601
S350 AG
S351 PTY
S352 RT
505EZ ONLY
TO DECK C.B CN1 (FC104)
S346. LED201 CD
S347. LED202 VIDEO/AUX
S348. LED203 TUNER/BAND
S349. LED204 TAPE DECK 1/2
DISC DIRECT PLAY
S328 1
S329 2
S330 3
S331 ▲OPEN/CLOSE
S332 DISC CHANGE
S342 ▶PRESET
TUNING
S341 ■CLEAR
S344 ▶▶/▶▶| UP
S345 |◀◀/◀◀ DOWN
S333 ●REC/REC MUTE
S334 SYNC/DUB
S343 ❚❚SET

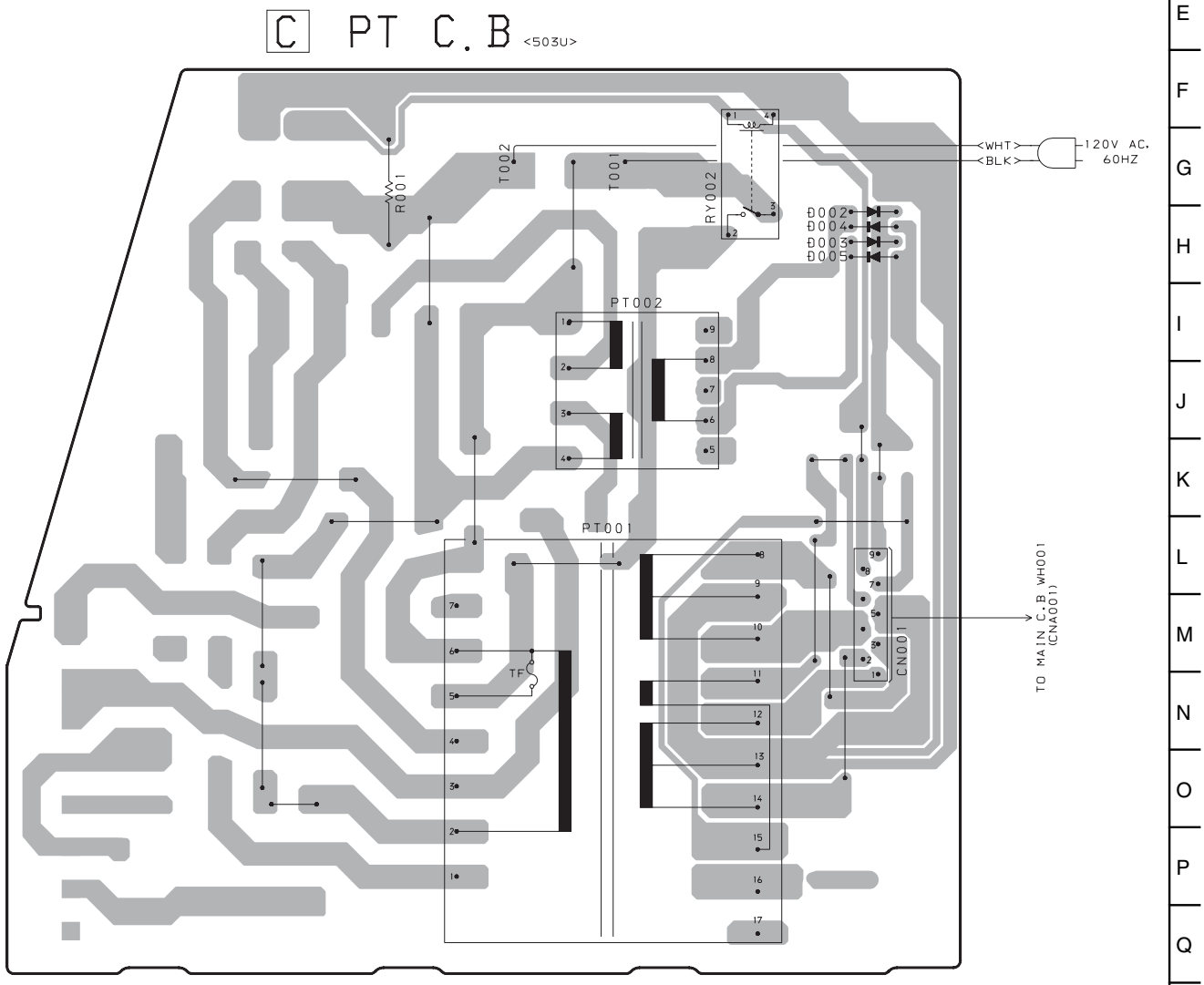
SCHEMATIC DIAGRAM – 5 (FRONT)



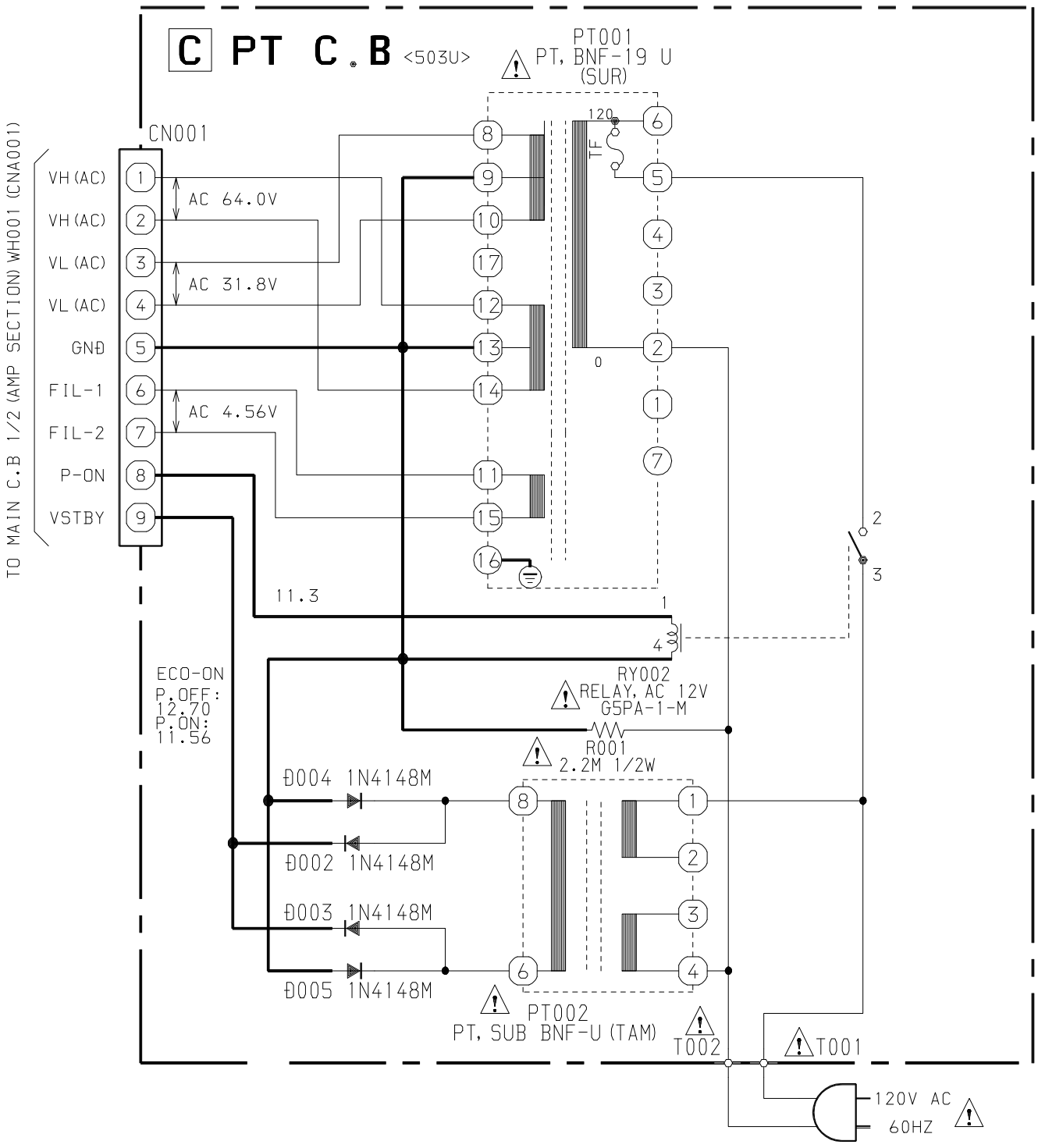

C PT C.B <500U, EZ>
TO MAIN C.B WH001 (W99)
U:120V AC 60HZ
EZ:230V AC 50HZ
<U:WHT, EZ:BLU>
<U:BLK, EZ:BRN>
T082
R097
<U ONLY>
T081
PT081
D082
D083
WH081
PT001
RY081
TF
EZ ONLY
C085

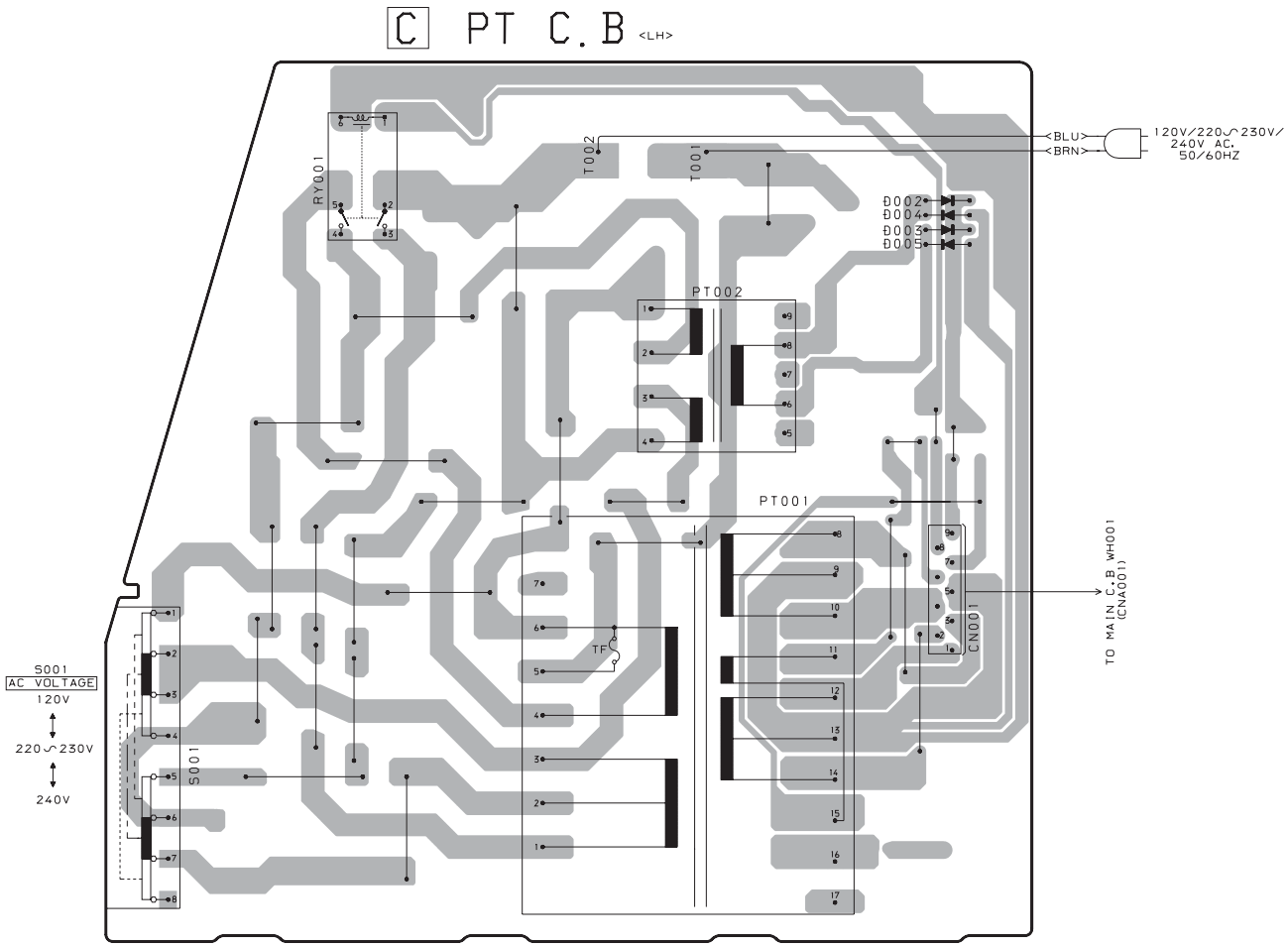
SCHEMATIC DIAGRAM – 6 (PT) <500U, EZ>



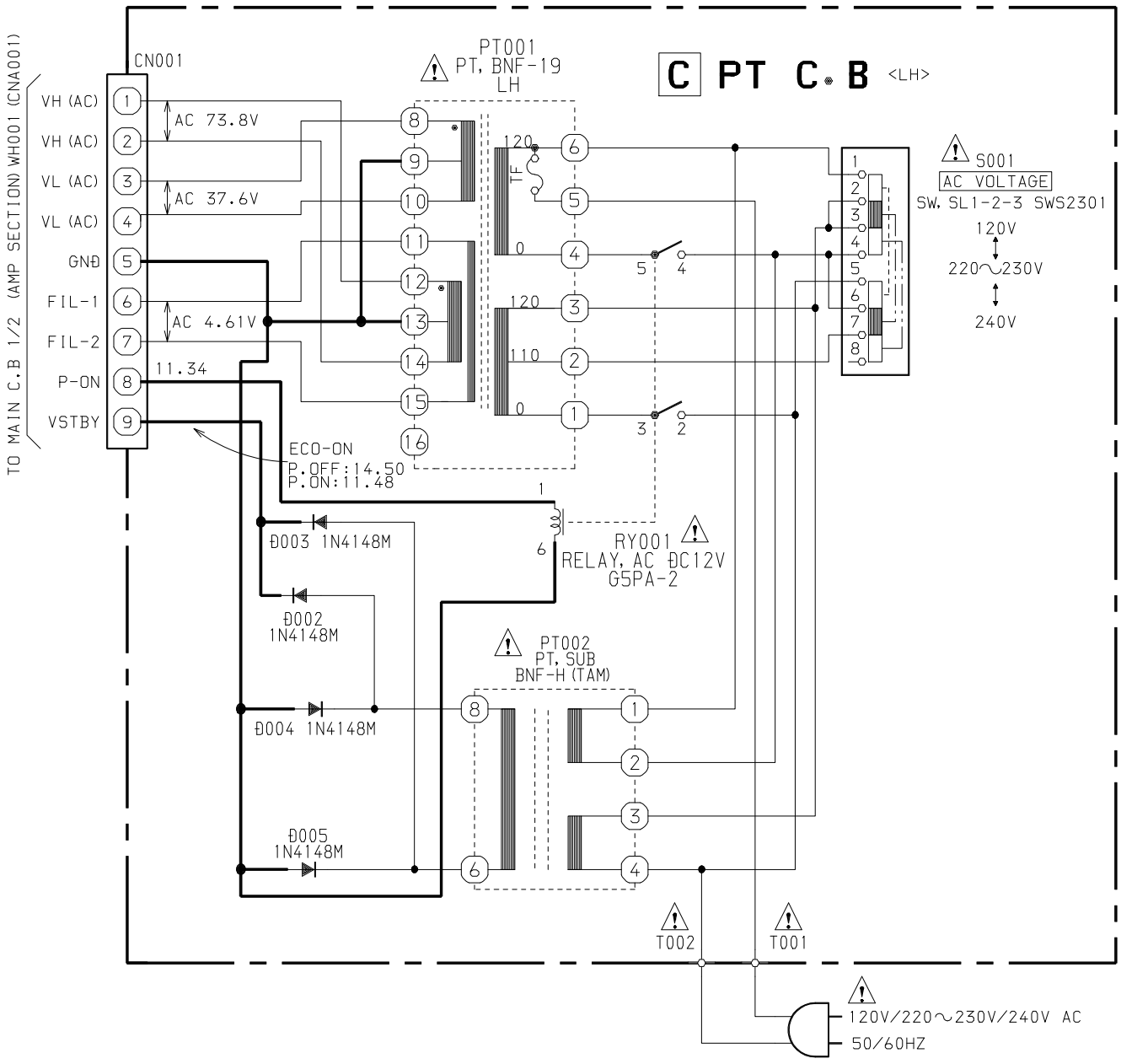

C PT C.B <503U>
R001
T002
T001
RY002
<WHT>
<BLK>
120V AC. 60HZ
D002
D004
D003
D005
PT002
PT001
TF
CN001
TO MAIN C.B WH001 (CNA001)

SCHEMATIC DIAGRAM – 7 (PT) <503U>




C PT C.B <LH>
RY001
T002
T001
<BLU>
<BRN>
120V/220~230V/
240V AC.
50/60HZ
D002
D004
D003
D005
PT002
PT001
TF
CN001
TO MAIN C.B WH001
(CNA001)
S001
AC VOLTAGE
120V
220~230V
240V
S001

SCHEMATIC DIAGRAM – 8 (PT) <LH>



IC DESCRIPTION

IC, µPD780226GF-021-3BA<U,LH,500EZ>, IC, µPD780228GF-078-3BA<505EZ>

Pin No.	Pin Name	I/O	Description
1	O-$\overline{\text{MOTOR}}$	O	DECK MOTOR $\overline{\text{ON}}$/OFF output.
2	O-$\overline{\text{SOL1}}$	O	DECK1 solenoid $\overline{\text{ON}}$/OFF output.
3	O-$\overline{\text{SOL2}}$	O	DECK2 solenoid $\overline{\text{ON}}$/OFF output.
4	O-$\overline{\text{STBY}}$	O	STANDBY LED (Echo mode) output ($\overline{\text{ON}}$/OFF).
5	NC	–	Not connected.
6	O-$\overline{\text{PB1}}$	O	DECK1 playback switch output ($\overline{\text{ON}}$/OFF).
7	O-$\overline{\text{CD}}$	O	CD LED output ($\overline{\text{ON}}$/OFF).
8	O-$\overline{\text{AUX}}$	O	AUX LED output ($\overline{\text{ON}}$/OFF).
9	O-$\overline{\text{TUNER}}$	O	TUNER LED output ($\overline{\text{ON}}$/OFF).
10	O-$\overline{\text{TAPE}}$	O	TAPE LED output ($\overline{\text{ON}}$/OFF).
11	O-TU_ON	O	TUNER ON/$\overline{\text{OFF}}$ switch output.
12	O-MUTE	O	System MUTE ON/$\overline{\text{OFF}}$ output.
13	O-$\overline{\text{KSCAN}}$	O	Switch SCAN timing output.
14	O-$\overline{\text{BIAS}}$	O	DECK2 BIAS $\overline{\text{ON}}$/OFF output.
15	O-$\overline{\text{RMT}}$	O	DECK2 REC MUTE $\overline{\text{ON}}$/OFF output.
16	NC	–	Not connected.
17	IC	–	Internal connection (connected to GND).
18	VSS0	–	GND.
19	VDD0	–	Power supply.
20	O-POWER	O	System power supply ON/$\overline{\text{OFF}}$ output.
21	NC	–	Not connected.
22	NC	–	Not connected.
23	NC	–	Not connected.
24	I-SUBQ	I	CD SUBQ data input.
25	I-WRQ	I	CD interrupt signal input.
26	I-DRF	I	CD focus ON detect data input.
27	I-$\overline{\text{REA}}$	I	DECK2 sideA record OK switch data input.
28	I-RDS_CLK	I	Tuner RDS clock input <505EZ only>.
29	I-RDS_DATA	I	Tuner RDS data input <505EZ only>.
30	$\overline{\text{RESET}}$	–	System reset input ($\overline{\text{ON}}$/OFF).
31	O-DSC/O-DATA	O	Function IC/Tuner IC, DATA output.
32	O-CLK_SFT	O	MICON clock shift output.
33	I-IFC	I	Tune IF count serial data input.
34	I-$\overline{\text{RMC}}$	I	System remote control signal input.
35	I-DISH	I	CD turntable photo sensor input A/D converter input.
36	I-$\overline{\text{STEREO}}$	I	Tuner STEREO detect input.
37	VDD1	–	Power supply.
38	X2	–	4.19MHz oscillator circuit.
39	X1	–	4.19MHz oscillator circuit.
40	VSS1	–	GND.
41	AVDD	–	Power supply.
42	I-$\overline{\text{HOLD}}$	I	Power failure detected input.
43	I-CDSW	I	CD mecha switch A/D converter input.

Pin No.	Pin Name	I/O	Description
44	I-SPEANA_1	I	A/D input for spectrum analyser level display.
45	I-SPEANA_2	I	A/D input for spectrum analyser level display.
46	I-KEY1	I	Key A/D input 1.
47	I-KEY2	I	Key A/D input 2.
48	I-SPEANA_3	I	A/D input for spectrum analyser level display.
49	I-TU_SIG	I	Tuner signal input <505EZ only>.
50	AVSS	–	GND.
51	O-PLL_CLK	O	PLL IC clock enable output.
52	O-PLL_CE	O	PLL IC chip enable output.
53, 54	P1, P2	O	FL segment P1, P2 output.
55	O-CD_CLK	O	CD clock output.
56	O-CD_DATA	O	CD data output.
57	O-CD_CE	O	CD chip enable output.
58	P3	O	FL segment P3 output.
59	I-JOG_B	I	Dial jog rotary encoder input B.
60	I-JOG_A	I	Dial jog rotary encoder input A.
61	I-VOL_B	I	Volume rotary encoder input B.
62	I-VOL_A	I	Volume rotary encoder input A.
63	P4	O	FL segment P4 output.
64	I-TM_BASE	I	Base input for clock.
65	P5/I-$\overline{\text{CAM2}}$	O/I	FL segment P5 output / DECK2 CAM STOP switch data input.
66	P6/I-$\overline{\text{CAM1}}$	O/I	FL segment P6 output / DECK1 CAM STOP switch data input.
67	P7/I-$\overline{\text{AUTO2}}$	O/I	FL segment P7 output / DECK2 AUTO STOP switch data input.
68	P8/I-$\overline{\text{AUTO1}}$	O/I	FL segment P8 output / DECK1 AUTO STOP switch data input.
69	P9/I-$\overline{\text{CST2}}$	O/I	FL segment P9 output / DECK2 cassette detect switch data input.
70	P10/I-$\overline{\text{CST1}}$	O/I	FL segment P10 output / DECK1 cassette detect switch data input.
71	P11/AM10K	O/I	FL segment P11 output / AM10K input to diode <U,LH only>.
72	P12	O	FL segment P12 output.
73	P13/LW	O/I	FL segment P13 output / LW input to diode <EZ only>.
74, 75	P14, P15	O	FL segment P14, P15 output.
76	P16/RDS	O/I	FL segment P16 output / RDS input to diode <505EZ only>.
77, 78	P17, P18	O	FL segment P17, P18 output.
79	VDD2	–	Power supply.
80	VLOAD	–	Power supply for FL display.
81	P19/C-JACK	O/I	FL segment P19 output / C-JACK data input <LH only>.
82	P20/ECO-OFF	O/I	FL segment P20 output / ECO-OFF data input <LH only>.
83 ~ 92	P21 ~ P30	O	FL segment P21 ~ P30 output.
93 ~100	G1 ~ G8	O	FL grid G1 ~ G8 output.

ADJUSTMENT <TUNER / FRONT / DECK>

< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP2 (CLK)
   Method : Set to AM 1710kHz(U,LH), MW 1602kHz(EZ) and check that the test point is 2160kHz ± 45Hz(U,LH), 2052kHz ± 45Hz(EZ).

2. AM(MW) VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to AM 1710kHz(U,LH), MW 1602kHz(EZ) and check that the test point is less than 8.5V(U,LH), less than 8.0V(EZ).
   Then set to AM 530kHz(U,LH), MW 531kHz (EZ) and check that the test point is more than 0.6V.

3. LW VT Adjustment <EZ>
   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.

4. FM VT Adjust <U,LH>
   Settings : • Test point : TP1 (VT)
   • Adjustment location : L906
   Method : Set to FM 87.5MHz, 108.0MHz and adjust L906 so that the test point becomes more than 0.5V (87.5MHz) and equals to 7.0V ± 0.1V (108.0MHz).

5. FM VT Check <EZ>
   Settings : • Test point : TP1 (VT)
   Method : Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 0.5V (87.5MHz) and less than 8.0V (108.0MHz).

6. AM(MW) Tracking Adjustment
   Settings : • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location : L951(1/3)
   Method : Set to AM 1000kHz(U,LH), MW 999kHz(EZ) and adjust L951(1/3) to MAX.

7. LW Tracking Adjustment <EZ>
   Settings : • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location :
   L941 .....144kHz
   TC942 .....290kHz
   Method : Set up TC942 to center before adjustment.
   Adjust L941 so that the level at 144kHz becomes maximum. Then adjust TC942 so that the level at 290kHz becomes maximum.

8. FM Tracking Adjustment <U,LH>
   Settings : • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location : L903
   Method : Set to FM 87.5MHz and adjust L903 so that the test point becomes maximum.

9. FM Tracking Check <EZ>
   Settings : • Test point : TP8(Lch), TP9(Rch)
   Method : Set to FM 98.0MHz and check that the test point is less than 13dBμV.

10. AM IF Adjustment
    Settings : • Test point : TP8(Lch), TP9(Rch)
    • Adjustment location :
    L802 .....450kHz.

11. DC Balance / Mono Distortion Adjustment
    Settings : • Test point : TP3, TP4 (DC Balance)
    TP8(Lch), TP9(Rch) (Distortion)
    • Adjustment location : L801
    • Input level : 60dBμV
    Method : Set to FM 98.0MHz and adjust L801 so that the voltage between TP3 and TP4 becomes 0V ± 500mV.
    Next, check that the distortion is less than 0.5%.

< FRONT SECTION >

12. μ-CON OSC Adjustment
    Settings : • Test point : TP11 (KEY-SCAN), (GND)
    • Adjustment location : L951
    Method : Connect a frequency counter across TP11 (KEY-SCAN) and GND. Insert AC plug while pressing POWER key and TUNER function key. Then adjust L951 so that the test point becomes 112.88Hz ± 0.11Hz.
    To manual reset press POWER key while pressing CLEAR key.

< DECK SECTION >

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

14. Head Azimuth Adjustment (DECK 1, DECK 2)
    Settings : • Test tape : TTA–330
    • Test point : TP8(Lch), TP9(Rch)
    • Adjustment location : 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.

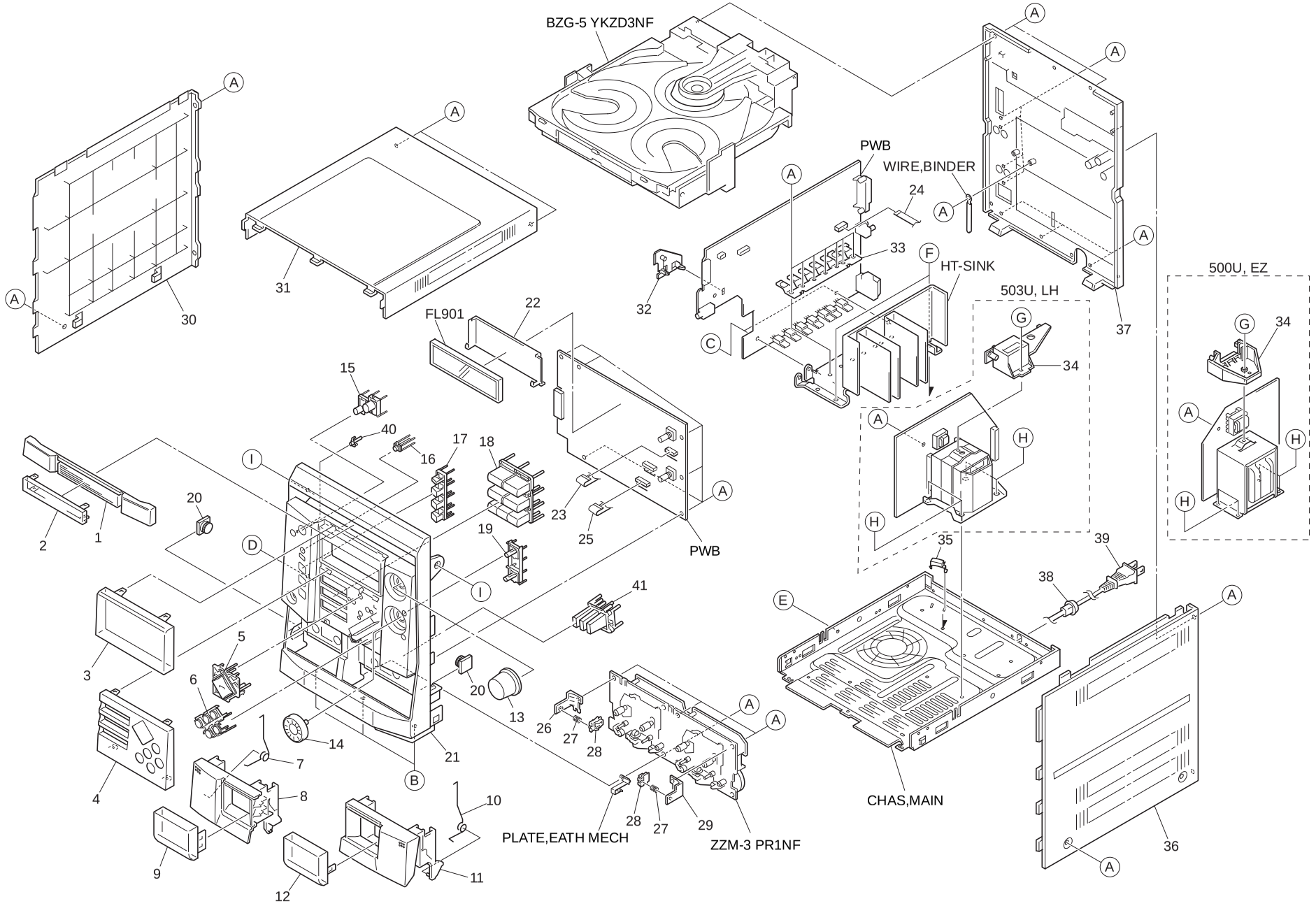
15. PB Frequency Response Check (DECK 1, DECK 2)
    Settings : • Test tape : TTA–330
    • Test point :TP8(Lch), TP9(Rch)
    Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 8kHz signal with respect to that of the 315Hz signal is within 3dB.

16. PB Sensitivity Check (DECK 1, DECK 2)
    Settings : • Test tape : TTA–200
    • Test point : TP8(Lch), TP9(Rch)
    Method : Play back the test tape and check that the output level of the test point is 110mV ± 3.0dB.

17. REC/PB Frequency Response Adjustment (DECK 2)
    Settings : • Test tape : TTA–602
    • Test point : TP8(Lch), TP9(Rch)
    • Input signal : 1kHz / 8kHz (LINE IN)
    • Adjustment location : SFR451 (Lch)
    SFR452 (Rch)
    Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes -20VU (10mV). Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes 0B ± 0.5dB with respect to that of the 1kHz signal.

18. REC/PB Sensitivity Check (DECK 2)
    Settings : • Test tape : TTA–602
    • Test point : TP8(Lch), TP9(Rch)
    • Input signal : 1kHz (LINE IN)
    Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at TP8, TP9 becomes 0VU (100mV). Record and play back the 1kHz signal and check that the output is -1dB ± 3.5dB.

MECHANICAL EXPLODED VIEW 1 / 1



MECHANICAL PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NFK-008-010		PANEL,TRAY
2	8B-NFK-013-010		WINDOW,TRAY
3	8B-NFK-010-010		WINDOW,DISP U<500U>
3	8B-NFK-053-010		WINDOW,DISP UR<503U>
3	8B-NFK-051-010		WINDOW,DISP EZ<LH,500EZ>
3	8B-NFK-052-010		WINDOW,DISP EZR<505EZ>
4	8B-NFK-033-010		PANEL,FR U<U>
4	8B-NFK-009-010		PANEL,FR 1 WAY<LH,EZ>
5	8B-NFK-020-010		KEY,ASSY FUNCTION
6	8B-NFK-024-010		KEY,CD
7	8A-NF8-281-010		SPR-T,EJECT 1
8	8B-NFK-003-010		BOX,CASS 1
9	8B-NFK-011-010		WINDOW,CASS 1 1WAY
10	8A-NF8-282-010		SPR-T,EJECT 2
11	8B-NFK-004-010		BOX,CASS 2
12	8B-NFK-012-010		WINDOW,CASS 2
13	8B-NFK-014-010		KNOB,RTRY VOL
14	8B-NFK-015-010		KNOB,RTRY JOG
15	8B-NFK-016-010		KEY,POWER
16	8B-NFK-029-010		LENS,SENSOR
17	8B-NFK-017-010		KEY,GEQ
18	8B-NFK-018-010		KEY,PLAY 1WAY
19	8B-NFK-026-010		KEY,ENTER
20	8Z-NF6-210-010		DMPR,150 N
21	8B-NFK-001-010		CABI,FR U<U>
21	8B-NFK-042-010		CABI,FR EZ<LH,500EZ>
21	8B-NFK-043-010		CABI,FR EZR<505EZ>
22	8B-NFK-201-010		GUIDE,FL
23	88-908-301-110		FF-CABLE,8P 1.25
24	88-906-251-110		FF-CABLE,6P 1.25(RVS-FACE)
25	88-911-101-110		FF-CABLE,11P 1.25
26	87-NF4-216-010		HLDR,LOCK 1
27	86-NF9-224-010		SPR-C,LOCK
28	82-NF5-229-010		PLATE,LOCK
29	87-NF4-217-110		HLDR,LOCK 2
30	8B-NFK-006-010		PANEL,LEFT
31	8B-NFK-040-010		PANEL,TOP
32	8A-NF8-206-010		HLDR,PWB M
33	8B-NF9-211-010		HLDR,TR S
34	8A-NF9-211-010		HLDR,PWB PT HI<500U,EZ>
34	8A-NF7-225-010		HLDR,PWB PT 85S<503U,LH>
35	87-NF4-221-010		HLDR,CABLE<500U,EZ>
36	8B-NFK-007-010		PANEL,RIGHT
37	8B-NFK-085-010		CABI,REAR USFD<500U>
37	8B-NFK-086-010		CABI,REAR RUSFD<503U>
37	8B-NFK-081-010		CABI,REAR LHSFD<LH>
37	8B-NFK-084-010		CABI,REAR EZSFD<500EZ>
37	8B-NFK-083-010		CABI,REAR EZRSFD<505EZ>
38	87-A91-422-010		BUSHING,AC CORD(U)<U>
38	87-085-185-010		BUSHING, AC CORD (E)<LH,EZ>
⚠ 39	87-A80-149-010		AC CORD ASSY,U BLK<U>
⚠ 39	87-A80-155-010		AC CORD ASSY,E BLK<LH,EZ>
40	8B-NFK-027-010		REFLECTOR,ECO
41	8B-NFK-035-010		KEY,RDS<505EZ>
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-067-688-010		BVTT+3-6
C	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
D	87-723-096-410		QT2+3-10W/O SLOT BL
E	87-721-096-410		QT2+3-10 GLD
F	87-B10-316-010		BVIT3B+3-10 R W/O
G	87-067-689-010		BVTT+3-8
H	87-078-200-010		S-SCREW,ITC+4-8 R
I	87-721-097-410		QT2+3-12 GLD

COLOR NAME TABLE

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

SPEAKER PARTS LIST
SX-NAJ502 (YUSC,YUSL,YUSN,YUS1N,YUSC9)
SX-NSZ502 (YSC,YSL,YLSC,YSC9,YLSC9)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NS0-001-010		PANEL,FR<EXCEPT YLSC,YLSC9>
1	8B-NS0-019-010		PANEL,FR P<YLSC,YLSC9>
2	8B-NS0-003-010		GRILLE,FRAME ASSY<EXCEPT YLSC,YLSC9>
2	8B-NS0-020-010		PROTECTOR,W ASSY<YLSC,YLSC9>
3	8B-NS0-008-010		PROTECTOR,TW
4	8B-NSK-602-010		SPKR,W 160<YUSC,YUSN>
4	8B-NSK-608-010		SPKR,W 160 H<YLSC,YLSC9>
4	8B-NSK-606-010		SPKR,W 160 L<YSC>
4	8B-NS0-604-010		SPKR,W 160 25/4<YSC9,YSL>
4	8B-NS0-602-010		SPKR,W 160 30/4<YUSC9,YUS1N,YUSL>
5	87-NSH-612-010		SPKR,CERAMIC ASSY
6	87-NS7-611-010		CORD,SPKR
7	8B-NSK-604-010		SPKR,T 60

SPEAKER PARTS LIST
SX-R145 (YUSC,YUSN,YUS1N)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	81-VSA-010-010		SPKR,CORD
2	87-010-384-010		CAP,E 100-25 M SME
3	8A-YS4-610-010		CORD,SPKR 3.5
4	8A-YS4-601-010		SPKR,80
5	8A-YS4-006-010		GRILLE, FRAME ASSY

ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8B-NFK-913-010		IB,U(ESF)IN<U>
1	8B-NFK-902-010		IB,LH(ESP)IN<LH>
1	8B-NFK-916-010		IB,EZ(9L)IN<500EZ>
1	8B-NFK-906-010		IB,EZ(9L)IN-SZ505<505EZ>
3	87-A92-150-010		ANT,LOOP AM NO-CONT

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