

**NSX-AJ500**

U

NSX-AJ503

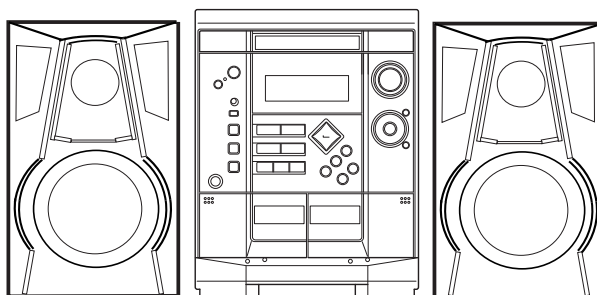
U

NSX-SZ500

LH,EZ

NSX-SZ505

EZ



SERVICE MANUAL

COMPACT DISC
STEREO SYSTEMBASIC 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).

aiwa

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 μ V/m
Antenna	Loop antenna

<LW tuner section><EZ>

Tuning range	144 kHz to 290 kHz
Usable sensitivity	1400 μ V/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
(10¹/₄ x 12⁷/₈ x 13¹/₂ 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 (6³/₈ in.) cone
Tweeter: 60 mm (2³/₈ 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
(9¹/₈ x 12⁷/₈ 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 (3¹/₄ in.) cone

Impedance

8 ohms

Dimensions (W x H x D)

100 x 132 x 116 mm
(4 x 5¹/₄ x 4⁵/₈ 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	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC				C19	87-A12-382-000		CAP, E 2200-63 M 85<500U, LH, EZ>
	87-A21-419-040		C-IC, NJM14558MD-TE2	C19	87-A12-776-090		CAP, E 2200-50 M 85 SKR<503U>
	87-A21-893-040		C-IC, NJM14558V-TE2	C20	87-A12-382-000		CAP, E 2200-63 M 85<500U, LH, EZ>
	87-A21-695-010		IC, LA1845L	C20	87-A12-776-090		CAP, E 2200-50 M 85 SKR<503U>
	87-A21-928-010		IC, LC72131D-N	C21	87-A12-777-090		CAP, E 3300-25 M 85 SKR<500U>
	87-A20-440-040		C-IC, BU1920FS<505EZ>	C21	87-A12-778-090		CAP, E 3300-35 M 85 SKR<503U, LH, EZ>
	87-A21-218-110		IC, NJL64H380A	C22	87-A12-778-090		CAP, E 3300-35 M 85 SKR
	87-A21-401-040		C-IC, M61503FP	C25	87-A12-072-080		CAP, E 100-25 SMG
	8B-NF9-602-030		C-IC, UPD780228GF-078-3BA<505EZ>	C26	87-A12-072-080		CAP, E 100-25 SMG
	8B-NF9-601-030		C-IC, UPD780226GF-021-3BA<U, LH, 500EZ>	C27	87-A12-072-080		CAP, E 100-25 SMG
	87-A21-269-010		IC, EW732	C28	87-A12-072-080		CAP, E 100-25 SMG
TRANSISTOR				C30	87-A12-095-080		CAP, E 100-50 SMG<500U, EZ>
	87-A30-559-010		TR, CSB1370EF	C30	87-010-430-080		CAP, E 100-63<503U, LH>
	87-A30-492-080		TR, 2SC5343G<U, 505EZ>	C31	87-A12-062-080		CAP, E 100-10 SMG
	87-A30-076-080		C-TR, 2SC3052F	C32	87-012-286-080		C-CAP, U 0.01-25
	87-A30-075-080		C-TR, 2SA1235F	C33	87-A12-062-080		CAP, E 100-10 SMG<U>
	87-A30-107-070		C-TR, CMBT5401	C34	87-A12-072-080		CAP, E 100-25 SMG
	87-A30-484-080		C-TR, KRA102S	C35	87-A12-071-080		CAP, E 47-25 SMG
	87-026-610-080		TR, KTC3198GR<LH, 500EZ>	C36	87-A12-067-080		CAP, E 330-16 SMG
	87-A30-190-080		TR, CC5551	C38	87-012-286-080		C-CAP, U 0.01-25
	87-A30-106-040		C-TR, CMBT5551	C60	87-A12-089-080		CAP, E 3.3-50 SMG
	87-A30-162-010		FET, 2SK2937	C61	87-A12-071-080		CAP, E 47-25 SMG
	87-A30-091-080		FET, 2SJ460	C83	87-A12-074-080		CAP, E 470-25 SMG<U, LH, 500EZ>
	87-A30-090-080		FET, 2SK2541	C83	87-A12-068-080		CAP, E 470-16 SMG<505EZ>
	87-A30-062-080		C-TR, KRC104S	C97	87-010-831-080		C-CAP, U 0.1-16 Z F
	87-A30-495-080		TR, 2SA1981Y	C101	87-012-279-080		C-CAP, U 2700P-50 B
	87-A30-234-080		TR, CSC4115BC	C102	87-012-279-080		C-CAP, U 2700P-50 B
	89-327-143-080		C-TR, 2SC2714 (O)	C103	87-A12-084-080		CAP, E 0.022-50 SMG
	87-A30-489-080		C-TR, KRA107S	C104	87-A12-084-080		CAP, E 0.022-50 SMG
	89-503-602-080		C-FET, 2SK360E	C105	87-012-277-080		C-CAP, U 1800P-50 K B GRM
	87-A30-086-040		C-TR, CSD1306E<505EZ>	C106	87-012-277-080		C-CAP, U 1800P-50 K B GRM
	87-A30-494-080		TR, 2SA1980G	C107	87-A12-089-080		CAP, E 3.3-50 SMG
	87-A30-528-010		TR, 2SB1686	C108	87-A12-089-080		CAP, E 3.3-50 SMG
	87-A30-529-010		TR, 2SD2642	C109	87-012-195-080		C-CAP, U 100P-50 CH<EZ>
	87-A30-087-080		C-FET, 2SK2158	C110	87-012-195-080		C-CAP, U 100P-50 CH<EZ>
	87-A30-074-080		C-TR, RT1P141C	C111	87-A12-077-080		CAP, E 33-35 SMG
	87-A30-582-080		TR, CDA1585BC	C112	87-A12-077-080		CAP, E 33-35 SMG
	87-A30-468-080		C-TR, KRC102S-RTK	C113	87-A10-596-080		C-CAP, S 100P-100 J CH<500U, LH, EZ>
	87-A30-615-080		TR, STC250<LH, 500EZ>	C113	87-010-322-080		C-CAP, S 100P-50 J CH<503U>
	87-A30-490-080		C-TR, KRC107S	C114	87-A10-596-080		C-CAP, S 100P-100 J CH<500U, LH, EZ>
DIODE				C114	87-010-322-080		C-CAP, S 100P-50 J CH<503U>
	87-A40-393-090		DIODE, 1N5402GW (F20)	C117	87-A12-368-080		C-CAP, S 0.1-50 Z F
	87-A40-553-080		DIODE, 1N4003 LES	C118	87-A12-368-080		C-CAP, S 0.1-50 Z F
	87-A40-776-080		ZENER, UZ27BSD	C119	87-012-286-080		C-CAP, U 0.01-25
	87-A40-764-080		ZENER, UZ10BSC	C120	87-012-286-080		C-CAP, U 0.01-25
	87-A40-270-080		C-DIODE, MC2838	C123	87-010-177-080		C-CAP, S 820P-25 J SL C2012
	87-A40-269-080		C-DIODE, MC2836	C124	87-010-177-080		C-CAP, S 820P-25 J SL C2012
	87-A40-291-080		DIODE, 1N4148M (CPT)	C133	87-012-282-080		C-CAP, U 4700P-50
	87-A40-749-080		ZENER, UZ5.6BSB	C140	87-012-278-080		C-CAP, U 2200P-50
	87-017-149-080		ZENER, HZS6A2L	C186	87-010-759-080		C-CAP, U, 0.1-25F
	87-A40-454-090		DIODE, 1N5393 GW 12.5<EZ>	C187	87-010-866-080		CAP, E 10-63 M VX<500U, LH, EZ>
	87-A40-747-080		ZENER, UZ5.1BSB	C187	87-A12-091-080		CAP, E 10-50 SMG<503U>
	87-A40-739-080		ZENER, UZ2.7BSA	C188	87-010-866-080		CAP, E 10-63 M VX<500U, LH, EZ>
	87-A40-748-080		ZENER, UZ5.6BSA	C188	87-A12-091-080		CAP, E 10-50 SMG<503U>
	87-A40-455-090		DIODE, RL203GW<EZ>	C223	87-012-272-080		C-CAP, U 680P-50 B<EZ>
MAIN C.B				C224	87-012-272-080		C-CAP, U 680P-50 B<EZ>
C3	87-012-368-080		C-CAP, S 0.1-50 Z F	C225	87-012-368-080		C-CAP, S 0.1-50 Z F<500U, LH, EZ>
C4	87-012-368-080		C-CAP, S 0.1-50 Z F	C225	87-010-196-080		C-CAP, S 0.1-25 Z F C2012<503U>
C5	87-012-368-080		C-CAP, S 0.1-50 Z F	C226	87-012-368-080		C-CAP, S 0.1-50 Z F<500U, LH, EZ>
C6	87-012-368-080		C-CAP, S 0.1-50 Z F	C226	87-010-196-080		C-CAP, S 0.1-25 Z F C2012<503U>
C9	87-010-759-080		C-CAP, U 0.1-25 Z F	C227	87-012-368-080		C-CAP, S 0.1-50 Z F<500U, LH, EZ>
C10	87-010-759-080		C-CAP, U 0.1-25 Z F	C227	87-010-196-080		C-CAP, S 0.1-25 Z F C2012<503U>
C11	87-010-759-080		C-CAP, U 0.1-25 Z F	C228	87-012-368-080		C-CAP, S 0.1-50 Z F<500U, LH, EZ>
C12	87-010-759-080		C-CAP, U 0.1-25 Z F	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<503U>

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

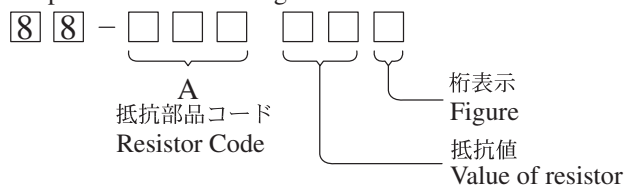
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C914	87-012-166-080		C-CAP,U 4P-50 C CH<U,LH>	L903	88-ZA1-601-010		COIL,FM-RF-U1 2G<U,LH>
C915	87-012-174-080		C-CAP,U 12P-50 J CH<U,LH>	L904	87-005-847-080		COIL,2.2UH (CECS) <U,LH>
C916	87-012-180-080		C-CAP,U 22P-50 CH<U,LH>	L905	88-ZA1-624-010		COIL,FM IFT 7-6.2 (COILS)<U,LH>
C917	87-012-186-080		C-CAP,U 39P-50 CH<U,LH>	L906	88-ZA1-603-010		COIL,FM-OSC-U 2G<U,LH>
C918	87-A10-039-080		C-CAP,U 470P-50 J CH<U,LH>	L941	87-A50-020-010		COIL,ANT LW (COI) 252KHZ<EZ>
C921	87-012-195-080		C-CAP,U 100P-50CH<U,LH>	L942	87-A50-019-010		COIL,OSC LW (COI) 856KHZ<EZ>
C922	87-012-174-080		C-CAP,U 12P-50 J CH CHJ<U,LH>	L951	8A-NF8-667-010		COIL,AM PACK 4 (TOK)<U,LH>
C940	87-012-286-080		C-CAP,U 0.01-25 K B<EZ>	L951	8A-NF8-668-010		COIL,AM PACK 2 (TOK)<EZ>
C942	87-012-165-080		C-CAP,U 3P-50 C CH<EZ>	R129	87-A00-262-080		RES,M/F 0.15-2W J<U,LH>
C947	87-012-286-080		C-CAP,U 0.01-25 K B<EZ>	R129	87-A00-257-080		RES,M/F 0.15-1W J<EZ>
C948	87-A10-039-080		C-CAP,U 470P-50 J CH<EZ>	R130	87-A00-262-080		RES,M/F 0.15-2W J<U,LH>
C952	87-012-286-080		C-CAP,U 0.01-25 K B<EZ>	R130	87-A00-257-080		RES,M/F 0.15-1W J<EZ>
C957	87-012-174-080		C-CAP,U 12P-50 J CH<EZ>	R131	87-A00-262-080		RES,M/F 0.15-2W J<U,LH>
C958	87-012-286-080		C-CAP,U 0.01-25 K B<EZ>	R131	87-A00-257-080		RES,M/F 0.15-1W J<EZ>
C959	87-010-831-080		C-CAP,U,0.1-16F	R132	87-A00-262-080		RES,M/F 0.15-2W J<U,LH>
C960	87-010-831-080		C-CAP,U,0.1-16F	R132	87-A00-257-080		RES,M/F 0.15-1W J<EZ>
C961	87-012-167-080		C-CAP,U 5P-50 CH<U,LH>	R243	87-A00-439-050		RES,180-1/2W J RP<500U,LH>
C962	87-A12-087-080		CAP,E 1-50 SMG<EZ>	R243	87-A00-440-050		RES,220-1/2W J RP<503U,EZ>
C963	87-015-785-080		CHIP CAPACITOR, 0.1-25 Z F	R244	87-A00-439-050		RES,180-1/2W J RP<500U,LH>
C971	87-A12-067-080		CAP,E 330-16 SMG	R244	87-A00-440-050		RES,220-1/2W J RP<503U,EZ>
C972	87-A12-090-080		CAP,E 4.7-50 SMG	R245	87-A00-439-050		RES,180-1/2W J RP<500U,LH>
C973	87-012-286-080		CAP, U 0.01-25	R245	87-A00-441-050		RES,270-1/2W J RP<503U>
C974	87-012-286-080		CAP, U 0.01-25	R245	87-A00-440-050		RES,220-1/2W J RP<EZ>
C979	87-012-195-080		C-CAP,U 100P-50CH	R246	87-A00-439-050		RES,180-1/2W J RP<500U,LH>
C981	87-A12-071-080		CAP,E 47-25 SMG	R246	87-A00-441-050		RES,270-1/2W J RP<503U>
C982	87-010-831-080		C-CAP,U,0.1-16F	R246	87-A00-440-050		RES,220-1/2W J RP<EZ>
C983	87-012-286-080		CAP, U 0.01-25 K B	R790	87-012-286-080		CAP, U 0.01-25
C984	87-012-286-080		CAP, U 0.01-25 K B	R991	87-012-195-080		C-CAP,U 100P-50CH
C985	87-012-195-080		C-CAP,U 100P-50 J CH<EZ>	R993	87-012-195-080		C-CAP,U 100P-50CH
C987	87-012-286-080		CAP, U 0.01-25 K B	R995	87-012-195-080		C-CAP,U 100P-50CH
C989	87-012-286-080		C-CAP, U 0.01-25 K B<EZ>	SFR451	87-024-355-080		SFR,33K H EVN DJAA03
C991	87-012-176-080		C-CAP,U 15P-50 J CH	SFR452	87-024-355-080		SFR,33K H EVN DJAA03
C992	87-012-176-080		C-CAP,U 15P-50 J CH	TC942	87-A91-774-080		TRIMMER, PLY 30P 6.8X5.4 CDYL<EZ>
C993	87-012-274-080		CHIP CAP,U 1000P-50B	TH101	87-A91-042-080		C-THMS,100K 55001
C995	87-012-274-080		CHIP CAP,U 1000P-50B	TH102	87-A91-042-080		C-THMS,100K 55001
C997	87-010-831-080		C-CAP,U,0.1-16F	WH1	87-A90-510-010		HLDR,WIRE 2.5-9P
C998	87-A12-071-080		CAP,E 47-25 SMG	W99	8A-NF9-609-010		F-CABLE,9P 2.5 480MM<500U,EZ>
C999	87-A11-155-080		CAP,TC U 0.01-16 Z F	X862	87-A70-307-010		VIB,XTAL 4.332MHZ CSA-309ST<505EZ>
CF831	87-008-261-010		FILTER, SFE10.7MA5-A<U,LH>	X992	87-A70-306-010		VIB,XTAL 4.500MHZ CSA-309ST
CF831	87-008-423-010		FILTER, CF SFE10.7MS3G-A<EZ>				
CF832	87-008-261-010		FILTER, SFE10.7MA5-A<U,LH>	FRONT C.B			
CF832	82-785-747-010		CF,MS2 GHY,R<EZ>	C108	87-010-785-080		C-CAP,U 0.015-25 K B GRM
CN301	87-A60-620-010		CONN,3P V 2MM JMT	C153	87-010-787-080		C-CAP,U 0.022-25 K B
CN351	87-A60-625-010		CONN,8P V 2MM JMT	C154	87-A12-078-040		CAP,E 47-35 SMG
CN601	87-099-719-010		CONN,30P TYK-B(X)	C155	87-010-404-040		CAP,E 4.7-50 M 11L SME
CN602	87-A60-131-010		CONN,6P V FE	C156	87-010-404-040		CAP,E 4.7-50 M 11L SME
CNA001	8A-NF8-653-010		CONN ASSY,9P TID-A(480) <503U,LH>	C301	87-012-278-080		C-CAP,U 2200P-50 K B
D902	87-A40-128-080		C-VARI-CAP,HVU202A<U,LH>	C351	87-A10-353-080		C-CAP,U 0.22-10 K B
D903	87-A40-128-080		C-VARI-CAP,HVU202A<U,LH>	C361	87-012-274-080		C-CAP,U 1000P-50 K B
FC602	88-906-251-110		FF-CABLE, 6P 1.25	C362	87-012-274-080		C-CAP,U 1000P-50 K B
FFE831	A8-6ZA-19M-030		6ZA-1 YFEMENM<EZ>	C371	87-012-274-080		C-CAP,U 1000P-50 K B
J201	87-A61-480-010		JACK,DIA 6.3BLK ST W/SW	C372	87-012-274-080		C-CAP,U 1000P-50 K B
J203	87-A60-238-010		TERMINAL,SP 4P (MSC)	C601	87-010-382-040		CAP,E 22-25 SME
J205	87-A60-881-010		JACK,PIN 2P MSP 242V05 PBSN<503U>	C801	87-A10-804-080		C-CAP,S 0.1-25 J B
J602	87-A60-881-010		JACK,PIN 2P MSP 242V05 PBSN	C802	87-010-316-080		C-CAP,S 33P-50 J CH GRM
J831	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02<U,LH>	C803	87-012-280-080		C-CAP,U 3300P-50 K B
J832	87-A60-403-010		TERMINAL,ANT PAL 2P HSP-312V05<EZ>	C804	87-A10-592-080		C-CAP,S 0.015-50 J B
JR123	87-A10-596-080		C-CAP,S 100P-100 J CH<500U,LH,EZ>	C805	87-012-184-080		C-CAP,U 33P-50 J CH
JR123	87-010-322-080		C-CAP,S 100P-50 J CH<503U>	C806	87-012-274-080		C-CAP,U 1000P-50 K B
JR124	87-A10-596-080		C-CAP,S 100P-100 J CH<500U,LH,EZ>	C807	87-012-274-080		C-CAP,U 1000P-50 K B
JR124	87-010-322-080		C-CAP,S 100P-50 J CH<503U>	C808	87-010-544-040		CAP,E 0.1-50 M 11L SME
L201	87-A50-610-010		COIL,1UH K(MDEC)	C809	87-010-404-040		CAP,E 4.7-50 SME
L202	87-A50-610-010		COIL,1UH K(MDEC)	C810	87-016-114-080		C-CAP,U 0.01-25 J B GRM
L451	87-007-342-010		COIL,OSC 85KHZ BIAS	C811	87-A12-052-080		C-CAP,S 0.033-25 J B
L801	87-A50-608-010		COIL,FM DET-N(TOK)	C901	87-012-195-080		C-CAP,U 100P-50 CH
L802	87-A91-551-010		FLTR,PCFJZH-450 L(TOK)	C902	87-012-195-080		C-CAP,U 100P-50 CH
L811	87-005-847-080		COIL,2.2UH CECS	C903	87-012-195-080		C-CAP,U 100P-50 CH
L832	87-005-847-080		COIL,2.2UH CECS	C904	87-012-195-080		C-CAP,U 100P-50 CH
L861	87-005-847-080		COIL,2.2UH K CECS<505EZ>	C905	87-012-195-080		C-CAP,U 100P-50 CH
L902	88-ZA1-602-110		COIL,FM-RF-U2 2G<U,LH>				

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C906	87-012-195-080		C-CAP,U 100P-50 CH	△ PT1	8B-NFK-613-010		PT, BNF-19 EZ<EZ>
C907	87-012-195-080		C-CAP,U 100P-50 CH	△ PT2	8B-NF9-661-010		PT,SUB BNF U (TAM)<503U>
C908	87-012-195-080		C-CAP,U 100P-50 CH	△ PT2	8B-NF9-663-010		PT,SUB BNF H (TAM)<LH>
C909	87-012-195-080		C-CAP,U 100P-50 CH	△ PT81	8B-NF9-661-010		PT,SUB BNF U (TAM)<500U>
C910	87-012-195-080		C-CAP,U 100P-50 CH	△ PT81	8B-NF9-665-010		PT,SUB BNF E (TAM)<EZ>
C911	87-012-274-080		C-CAP,U 1000P-50 K B	△ RY1	87-A91-339-010		RELAY,AC DC12V G5PA-2<LH>
C912	87-010-831-080		C-CAP,U 0.1-16 Z F	△ RY2	87-A91-418-010		RELAY,AC 12V G5PA-1-M<503U>
C913	87-A10-189-040		CAP,E 220-10 M 5L	△ RY81	87-A91-418-010		RELAY,AC 12V G5PA-1-M<500U,EZ>
C914	87-A10-189-040		CAP,E 220-10 M 5L	△ S1	87-A90-165-010		SW,SL 1-2-3 SWS2301<LH>
C915	87-010-831-080		C-CAP,U 0.1-16 Z F	△ T1	87-A60-317-010		TERMINAL, 1P MSC<503U,LH>
C916	87-010-831-080		C-CAP,U 0.1-16 Z F	△ T2	87-A60-317-010		TERMINAL, 1P MSC<503U,LH>
C917	87-010-831-080		C-CAP,U 0.1-16 Z F	△ T81	87-A60-317-010		TERMINAL, 1P MSC<500U,EZ>
C919	87-012-286-080		C-CAP,U 0.01-25 K B	△ T82	87-A60-317-010		TERMINAL, 1P MSC<500U,EZ>
C920	87-010-829-080		C-CAP,U 0.047-16 Z F	WH81	87-A90-510-010		HLDR,WIRE 2.5-9P<500U,EZ>
C921	87-012-282-080		C-CAP,U 4700P-50 K B				
C951	87-012-172-080		C-CAP,U 10P-50 D CH	DECK C.B			
C952	87-010-854-080		C-CAP,S 560P-50 J CH	CN1	87-099-753-010		CONN,11P 9604
C953	87-012-349-080		C-CAP,S 1000P-50 J CH GRM	SFR1	87-024-581-010		SFR,3.3K DIA 6H
C961	87-010-378-040		CAP,E 10-16 M 11L SME	SOL1	82-ZM1-618-410		SOL ASSY, 27
C962	87-012-336-080		C-CAP,U 330P-50 J SL	SOL2	82-ZM1-618-410		SOL ASSY, 27
C963	87-010-831-080		C-CAP,U 0.1-16 Z F	SW1	87-A90-673-010		SW,MICRO ESE11SH1C
CN104	87-A60-057-010		CONN,11P V 9604S-11C	SW2	87-A91-500-010		SW,MICRO MPU11470MLB0
CN701	87-099-720-010		CONN,30P BLK TYK-B(P)	SW3	87-A91-500-010		SW,MICRO MPU11470MLB0
CN731	87-099-196-010		CONN,8P V BLK 6216	SW4	87-A91-500-010		SW,MICRO MPU11470MLB0
FC104	88-911-101-110		FF-CABLE,11P 1.25	SW5	87-A90-673-010		SW,MICRO ESE11SH1C
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				
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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				
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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							
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>				

○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)				抵抗コード : A Resistor Code : A
				外形／Form	L	W	t	
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



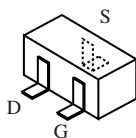
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2SA1981Y

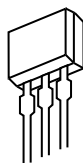


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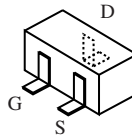


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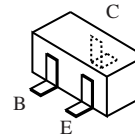


S D G

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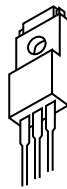


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2SC2714(O) KRC102S-RTK
2SC3052F KRC104S
CMBT5401 KRC107S
CMBT5551 RT1P141C
CSD1306E
KRA102S



B C E

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2SD2642



G D S

2SK2937

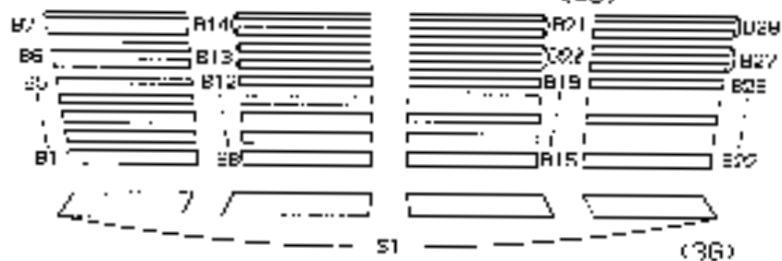
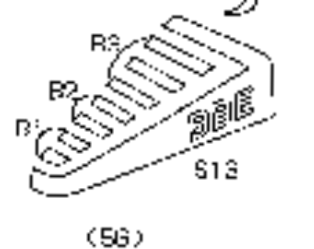
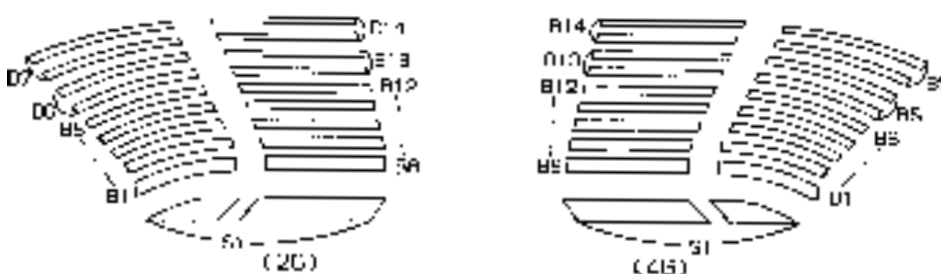
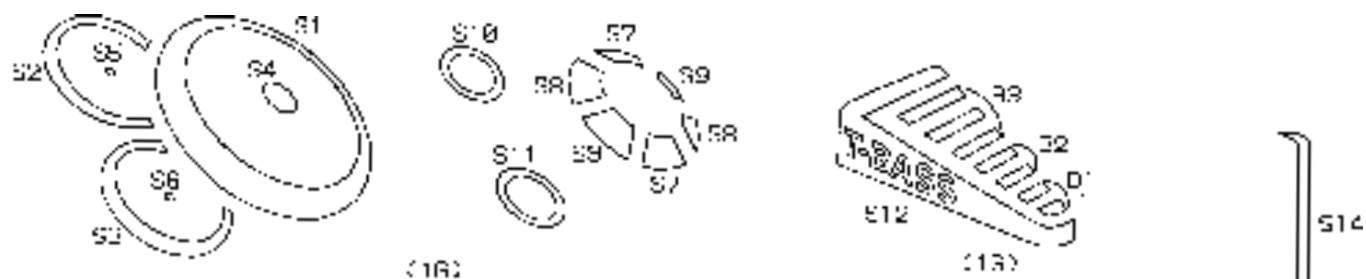
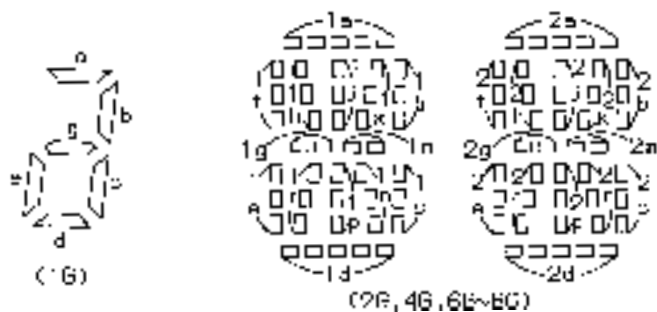
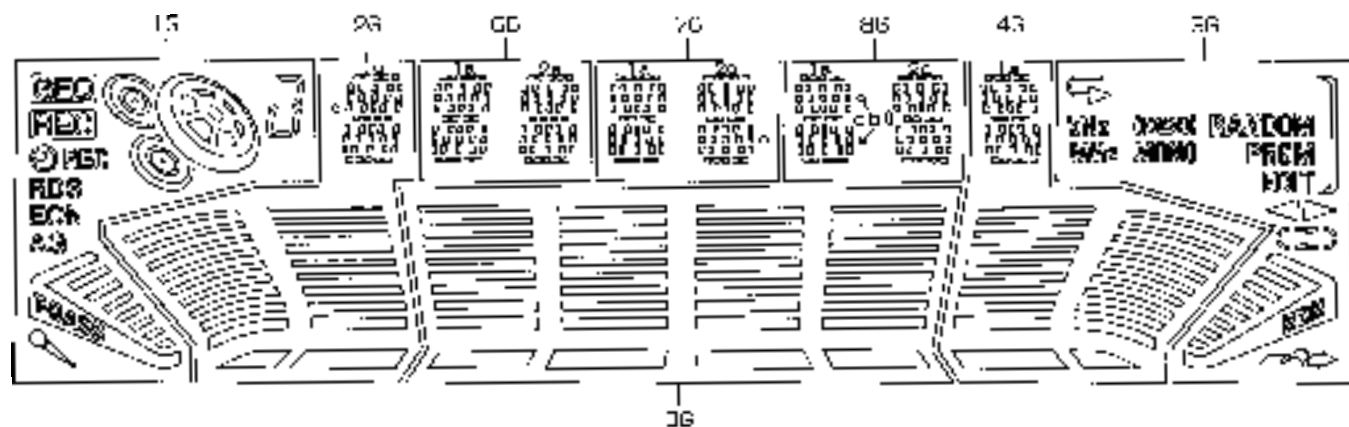


B C E

CSB1370EF

FL (BJ814GNAK) GRID ASSIGNMENT AND ANODE CONNECTION

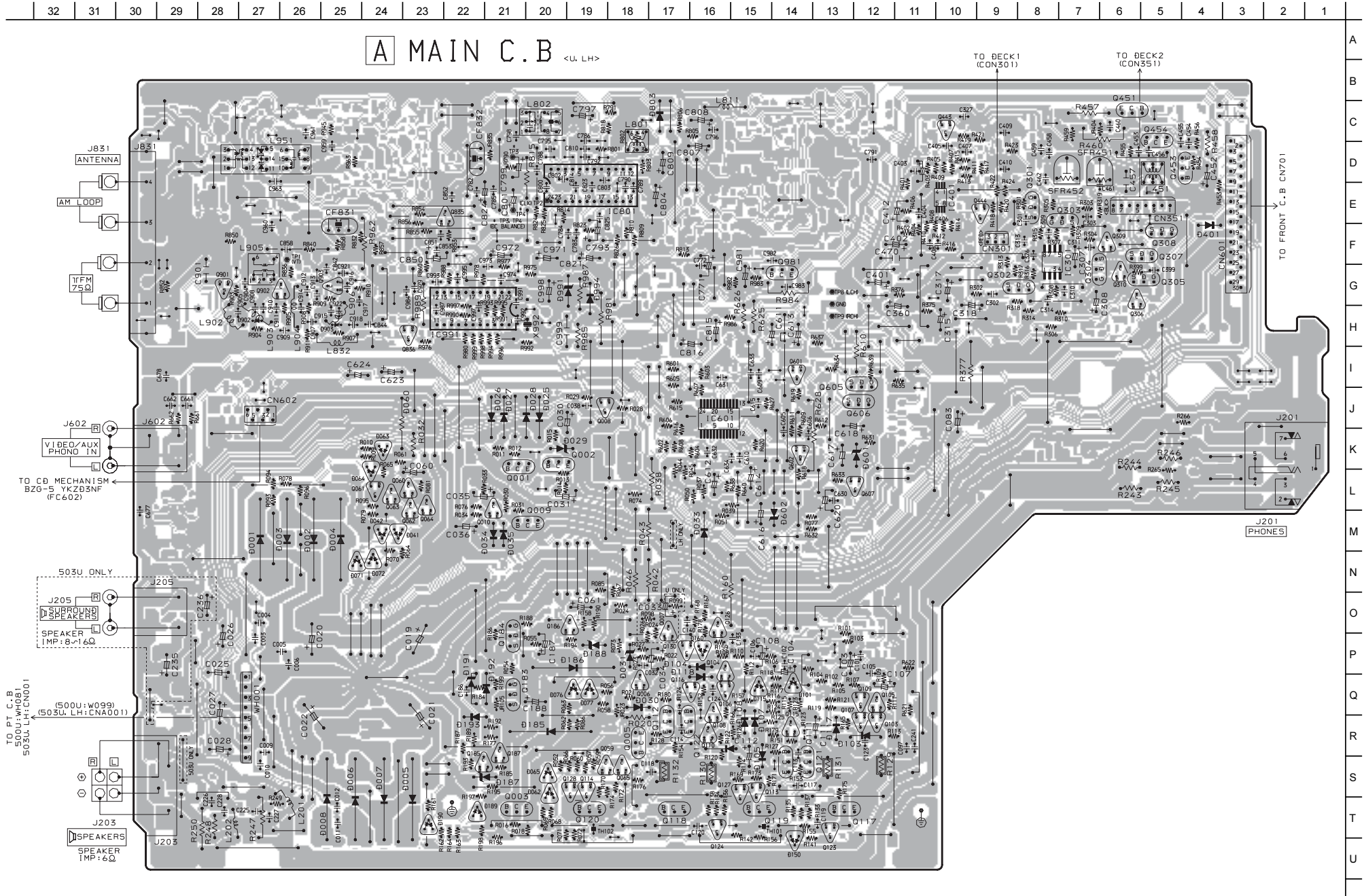
GRID ASSIGNMENT



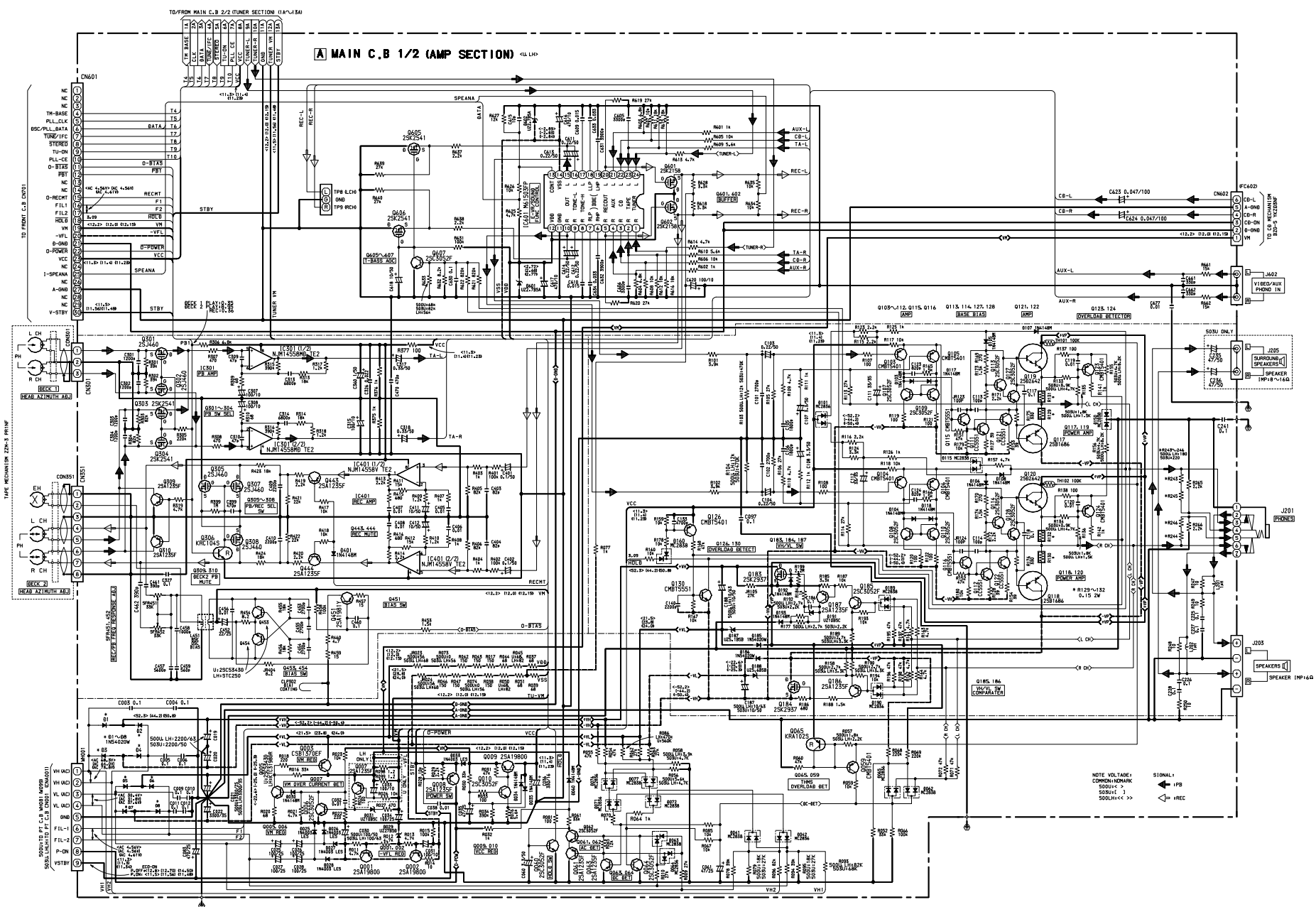
ANODE CONNECTION

	15	24	33	40	56	66	73	86
P1		B1	B1	B1		1a	1a	1a
P2	S12	B2	B2	B2	S12	1c	1f	1n
P3	B1	B3	B3	B3	3	1j	1j	1j
P4	B2	B4	B4	B4	B2	1k	1k	1k
P5	B3	B5	B5	B5	B1	1b	1h	1b
P6		B6	B5	B6		1r	1a	1f
P7		B7	B7	B7		1m	1n	1m
P8		B8	B8	B8		1a	1g	1a
P9		B9	B9	B9		1c	1c	1c
P10		B10	B10	B10		1a	1e	1e
P11		B11	B11	B11	S14	1r	1r	1r
P12		B12	B12	B12		1p	1p	1p
P13	S1	B13	B13	B13		1n	1n	1n
P14	S2	B14	B14	B14		1a	1d	1a
P15	S3	S1	B15	S1		2a	2a	2a
P16	S4	1a	B16	1a		2h	2h	2h
P17	S5	1n	B17	1h	-	2j	2j	2j
P18	S6	1c	B18	1j		2k	2k	2k
P19	S7	1k	B19	1k		2b	2b	2b
P20	S8	1b	B20	1a		2f	2f	2f
P21	S9	1f	B21	1f	-	2m	2n	2n
P22	S10	1m	B22	1n	-	2a	2g	2g
P23	S11	1g	B23	1g	-	2c	2c	2c
P24	A, B, C, D	1c	B24	1c	-	2e	2e	2e
P25	b	1a	B25	1b	-	2r	2r	2r
P26	c	1r	B26	1r	-	2p	2p	2p
P27	a	1p	B27	1a	-	2n	2n	2n
P28	-	1r	B28	1n	-	2d	2d	2d
P29	-	1a	S1	1d	-	-	C	2d (JP)
P30	-	O	-	-	-	-	-	2d (JP)

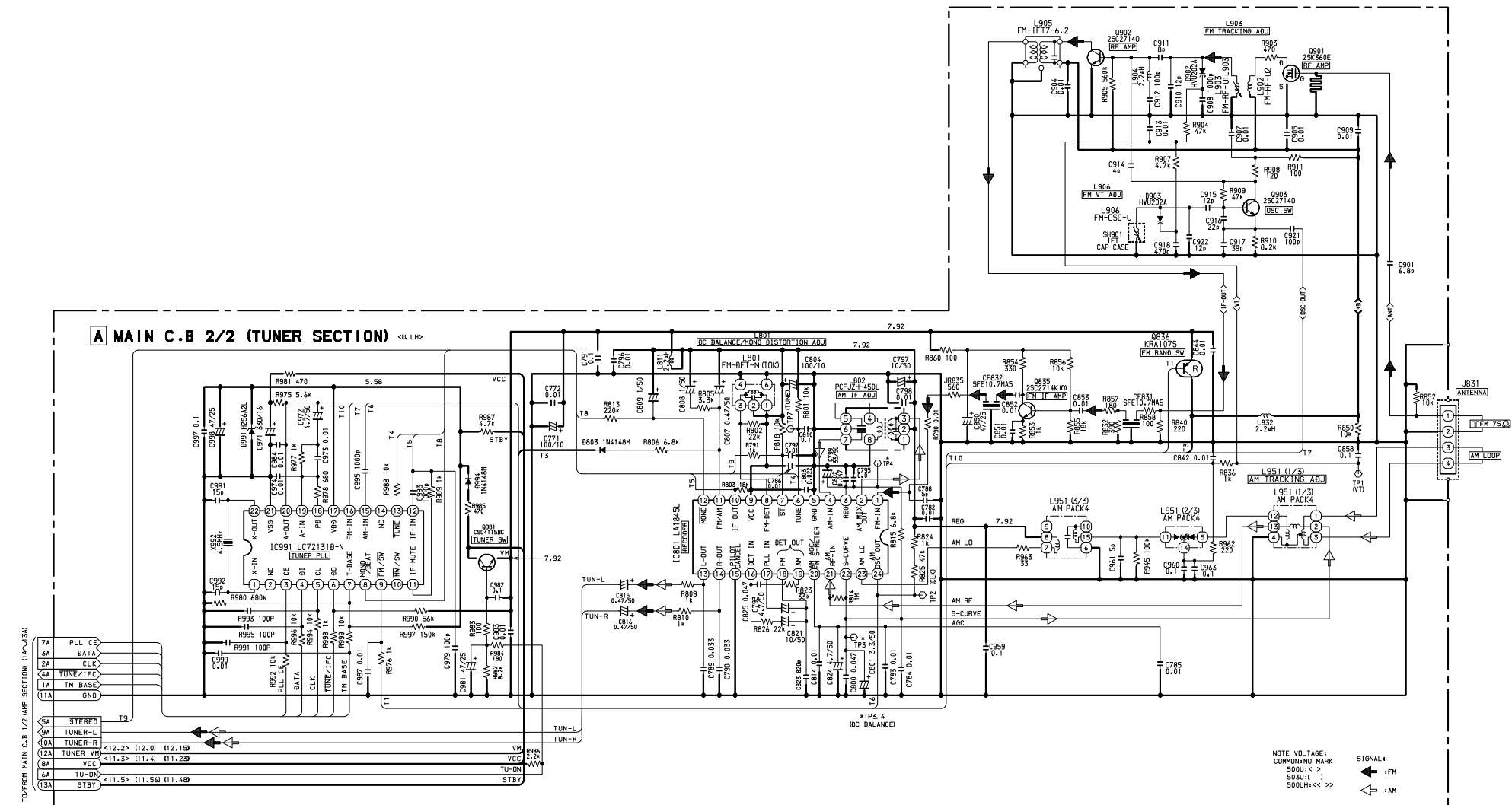
WIRING - 1 (MAIN) <U, LH>



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

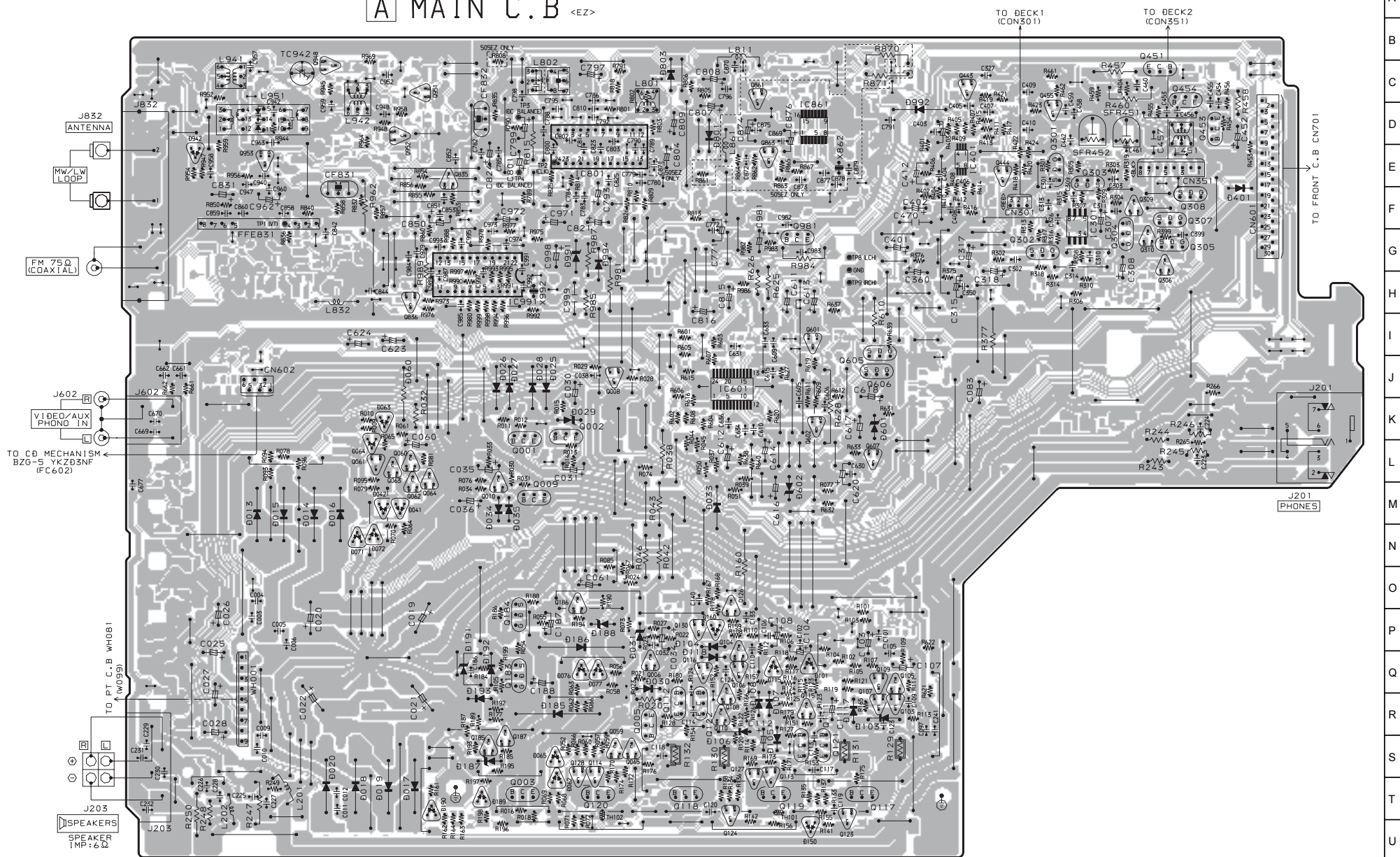


SCHEMATIC DIAGRAM-2 (MAIN 2/2:TUNER) <U, LH>

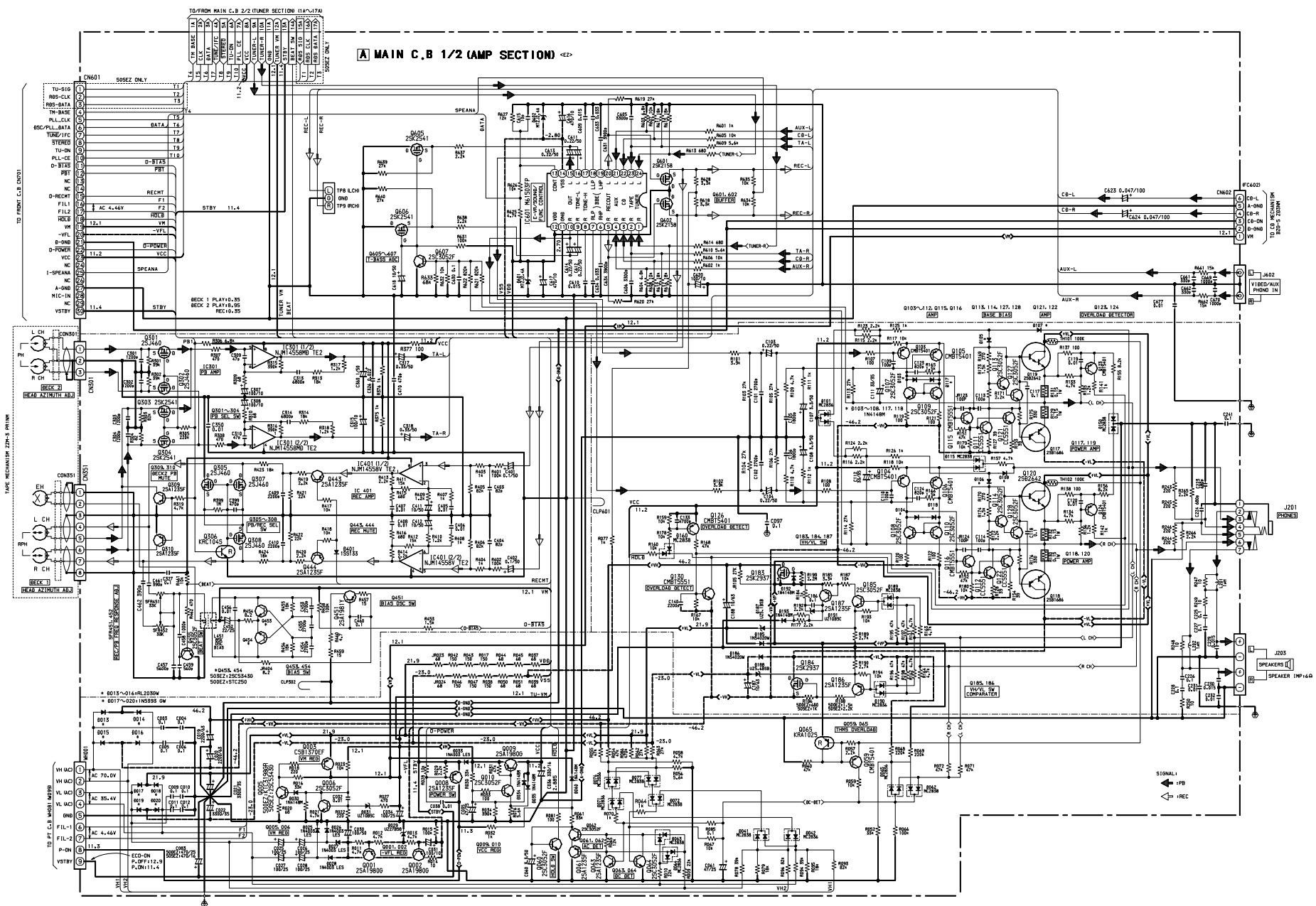


32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
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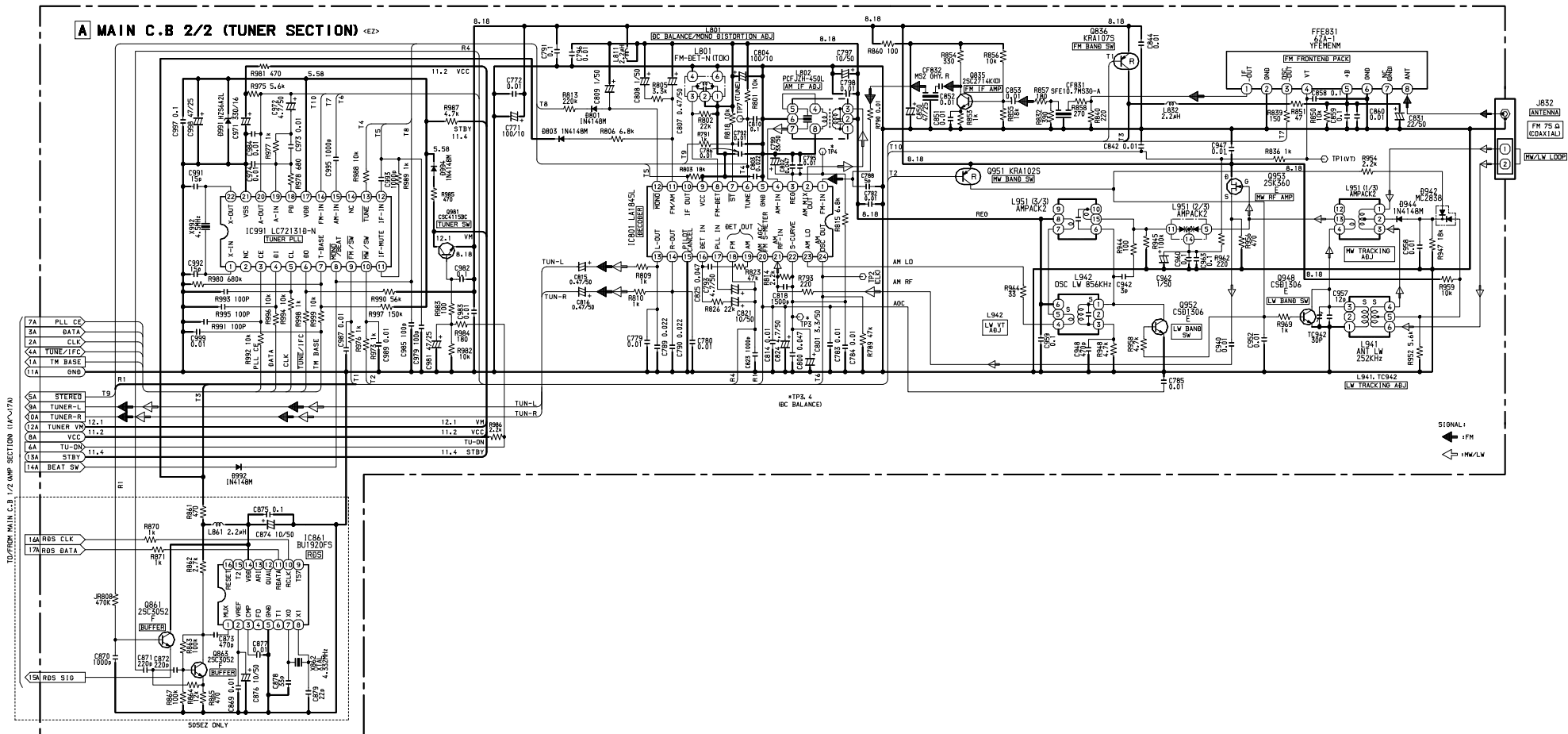
A MAIN C.B. <EZ>



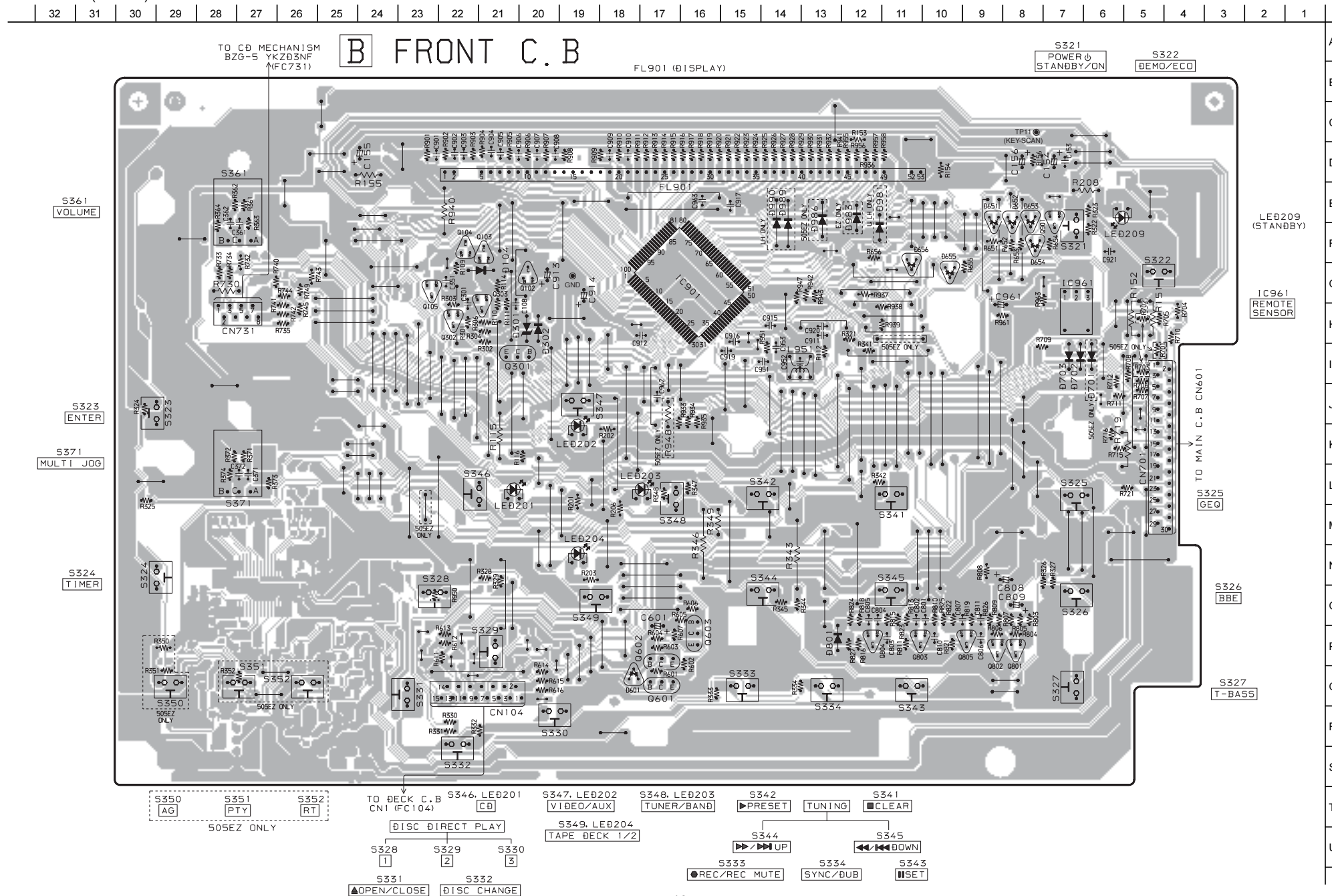
SCHEMATIC DIAGRAM-3 (MAIN 1/2:AMP) <EZ>



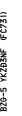
SCHEMATIC DIAGRAM-4 (MAIN 2/2:TUNER) <EZ>



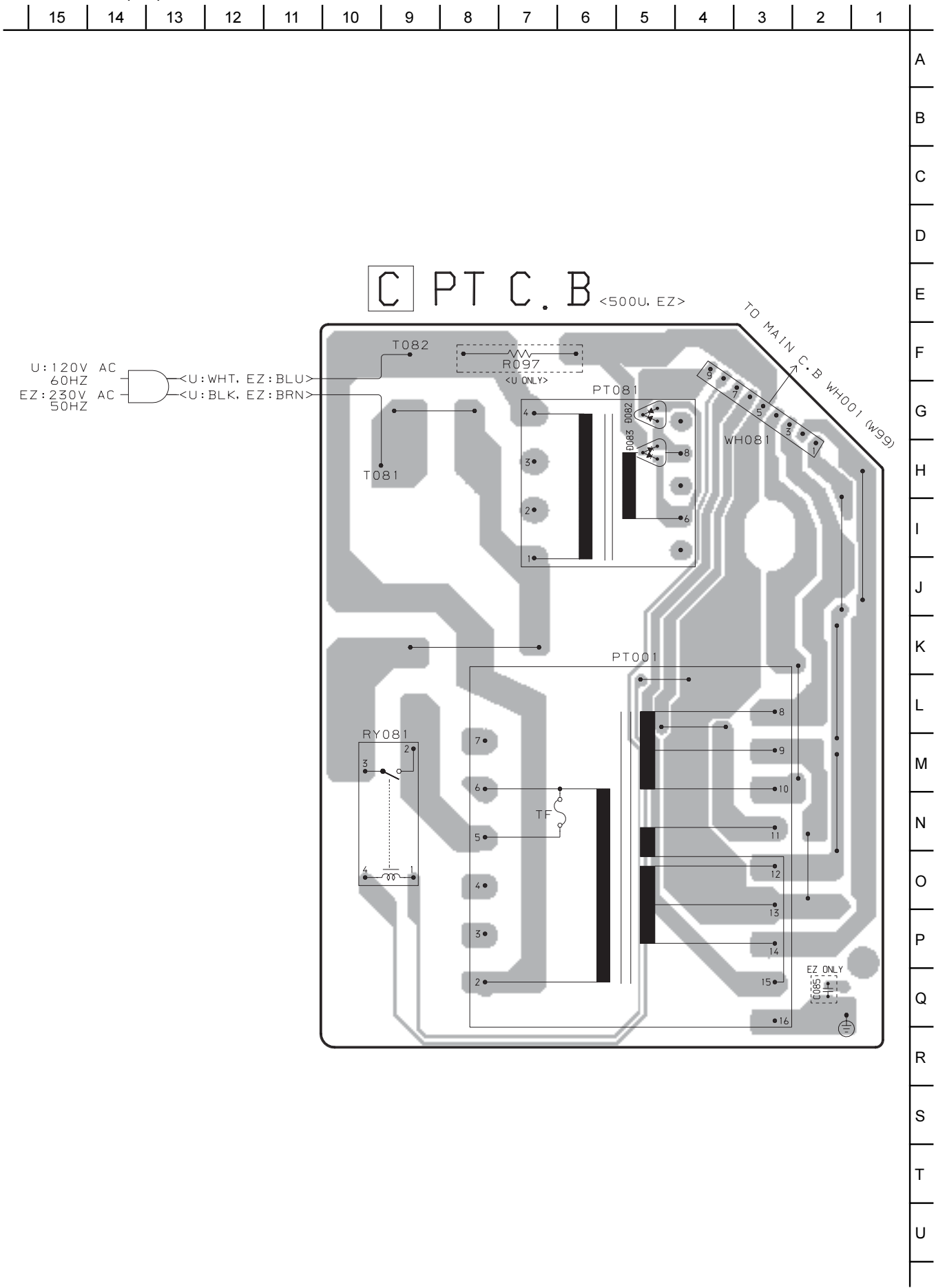
WIRING - 3 (FRONT)



Q MAIN C.B. 1/2 (AMP SECTION) CN601



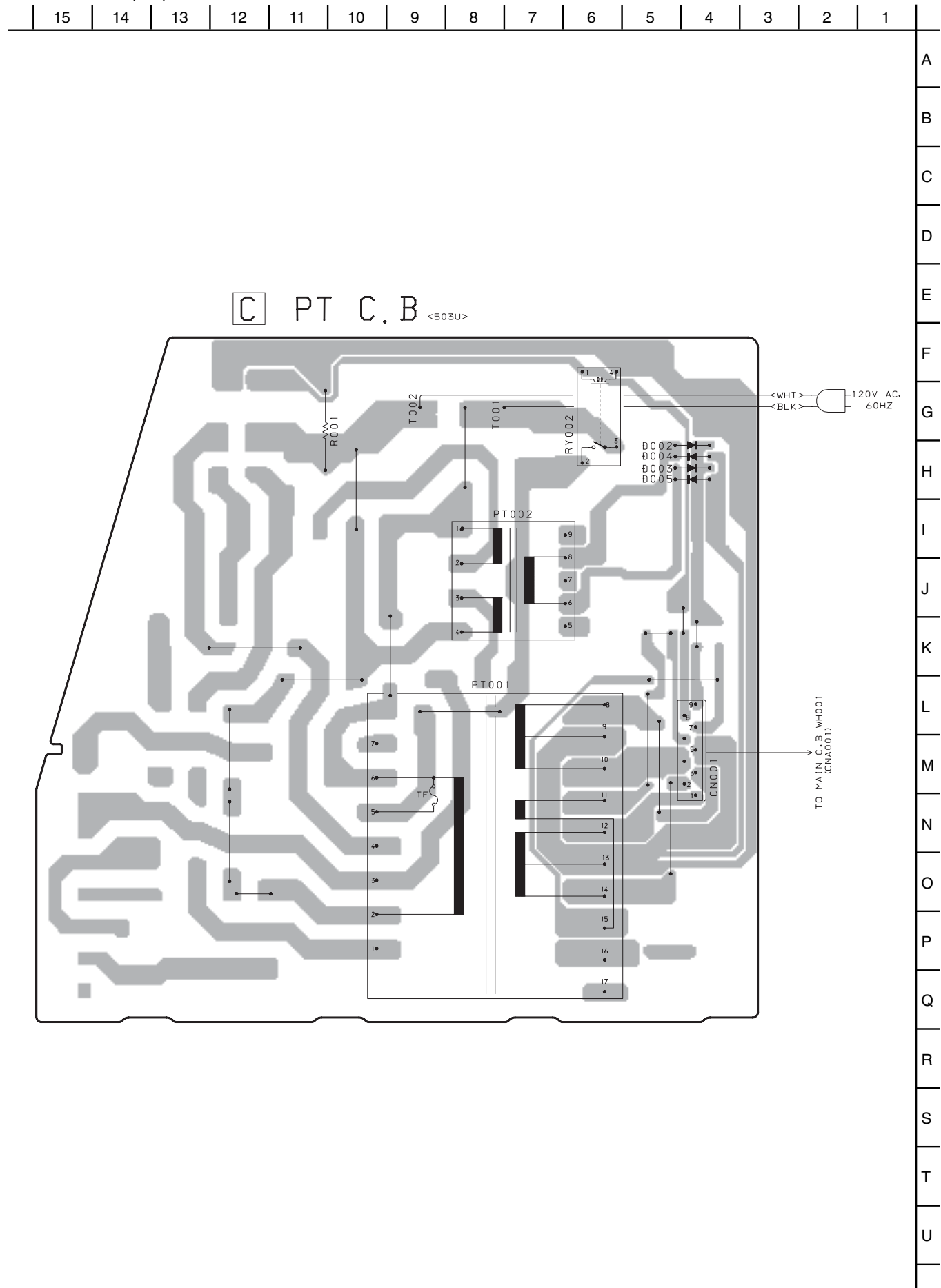
WIRING – 4 (PT) <500U, EZ>



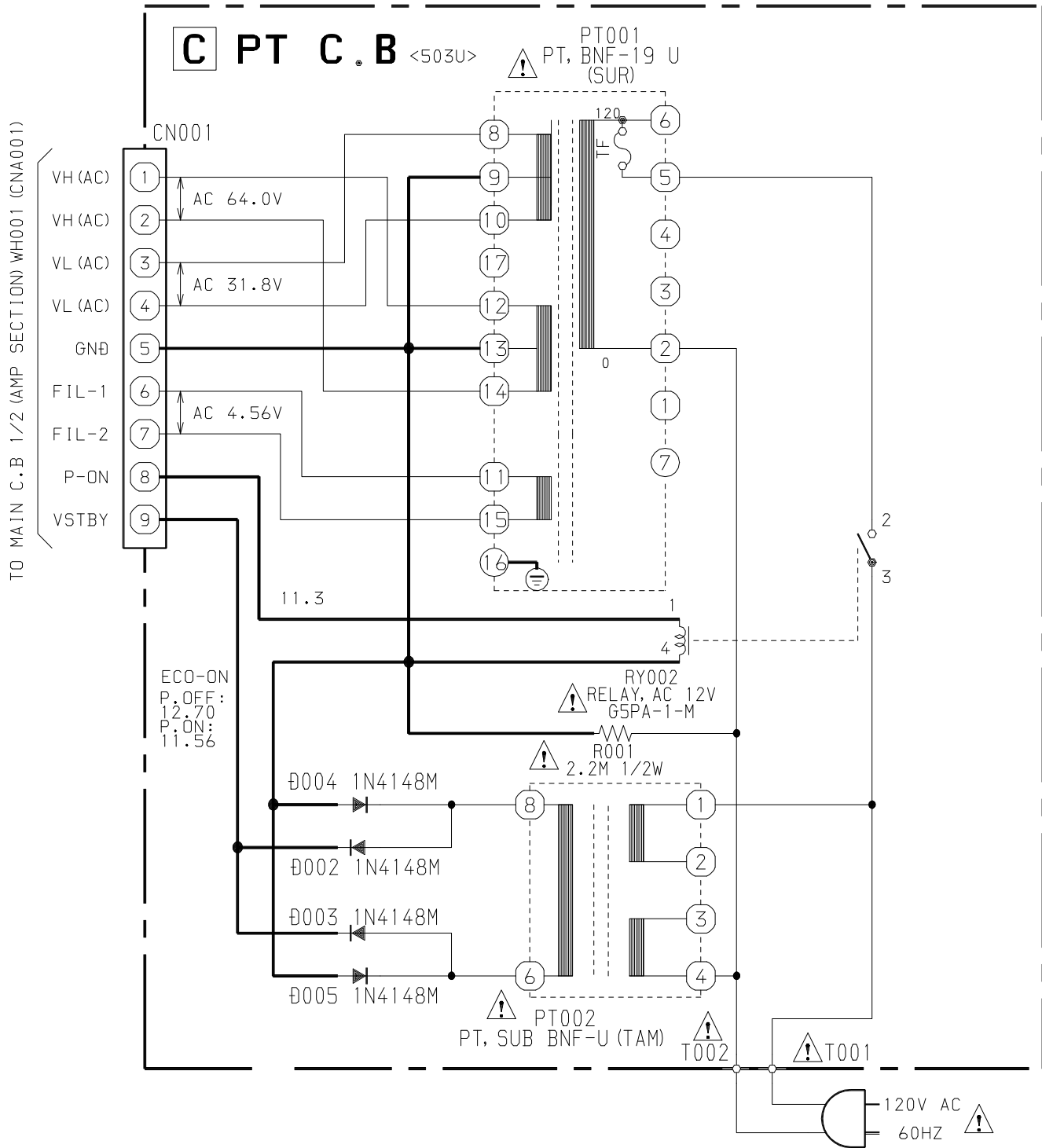
TO MAIN C.B 1 1/2 (AMP SECTION) WH001 (W99)



WIRING – 5 (PT) <503U>



SCHEMATIC DIAGRAM - 7 (PT) <503U>



PT C.B. <LH>

AC VOLTAGE
 120V
 220 ~ 230V
 240V

RY001
 5
 2
 4

T002
 1
 2
 3
 4

T001
 1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17

PT002
 1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17

PT001
 1
 2
 3
 4
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 8
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 11
 12
 13
 14
 15
 16
 17

TF

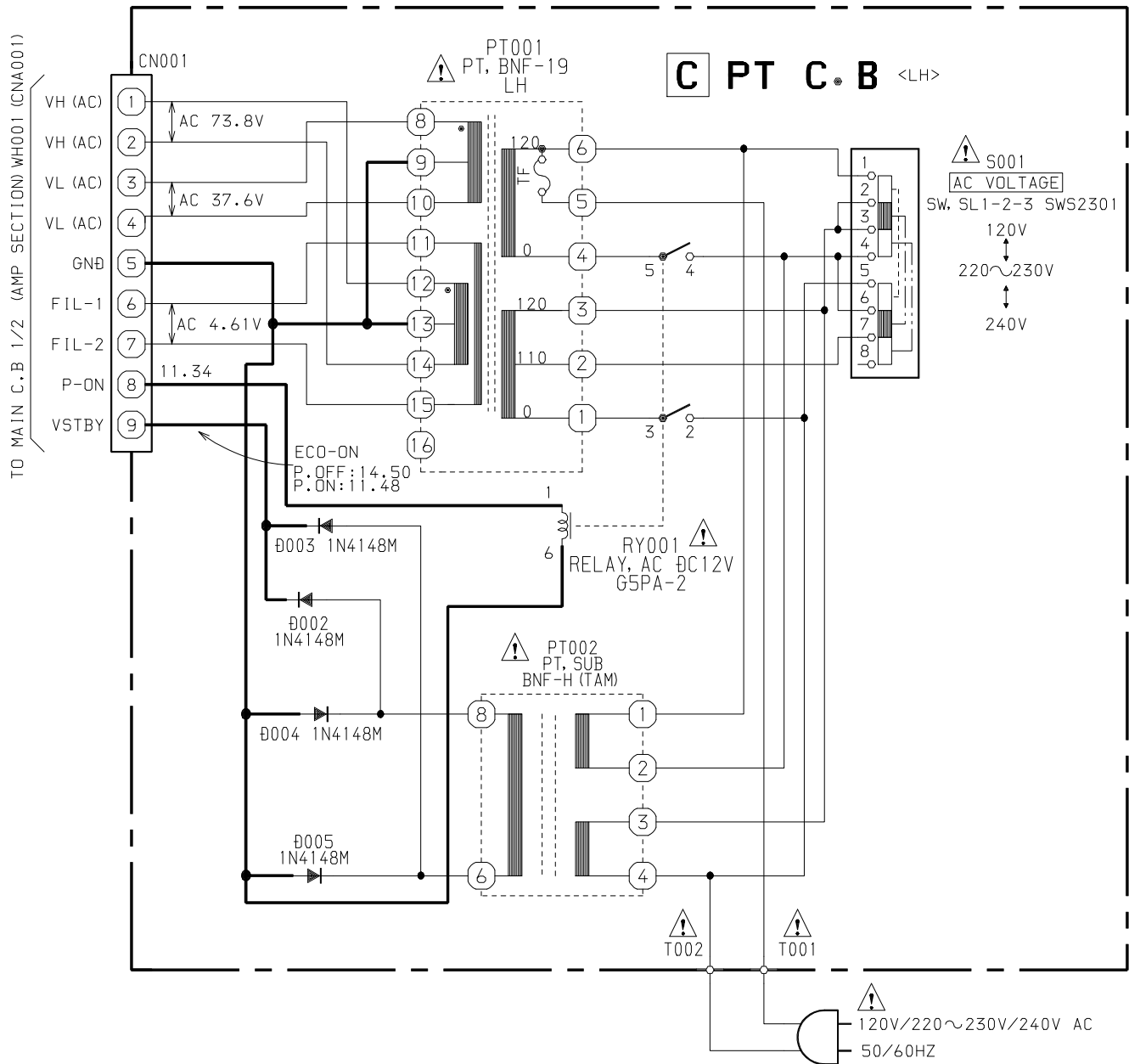
DO02
 DO04
 DO03
 DO05

CN001
 1
 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17

TO MAIN C.B. WH001 (CNA001)

120V/220~230V/240V AC, 50/60HZ
 <BLU>
 <BRN>

SCHEMATIC DIAGRAM – 8 (PT) <LH>



IC DESCRIPTION

IC, μ PD780226GF-021-3BA<U,LH,500EZ>, IC, μ PD780228GF-078-3BA<505EZ>

Pin No.	Pin Name	I/O	Description
1	O-MOTOR	O	DECK MOTOR $\overline{\text{ON}}$ /OFF output.
2	O-SOL1	O	DECK1 solenoid $\overline{\text{ON}}$ /OFF output.
3	O-SOL2	O	DECK2 solenoid $\overline{\text{ON}}$ /OFF output.
4	O-STBY	O	STANDBY LED (Echo mode) output ($\overline{\text{ON}}$ /OFF).
5	NC	–	Not connected.
6	O-PB1	O	DECK1 playback switch output ($\overline{\text{ON}}$ /OFF).
7	O-CD	O	CD LED output ($\overline{\text{ON}}$ /OFF).
8	O-AUX	O	AUX LED output ($\overline{\text{ON}}$ /OFF).
9	O-TUNER	O	TUNER LED output ($\overline{\text{ON}}$ /OFF).
10	O-TAPE	O	TAPE LED output ($\overline{\text{ON}}$ /OFF).
11	O-TU_ON	O	TUNER ON/OFF switch output.
12	O-MUTE	O	System MUTE ON/OFF output.
13	O-KSCAN	O	Switch SCAN timing output.
14	O-BIAS	O	DECK2 BIAS $\overline{\text{ON}}$ /OFF output.
15	O-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/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-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	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-RMC	I	System remote control signal input.
35	I-DISH	I	CD turntable photo sensor input A/D converter input.
36	I-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-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-CAM $\overline{2}$	O/I	FL segment P5 output / DECK2 CAM STOP switch data input.
66	P6/I-CAM $\overline{1}$	O/I	FL segment P6 output / DECK1 CAM STOP switch data input.
67	P7/I-AUTO $\overline{2}$	O/I	FL segment P7 output / DECK2 AUTO STOP switch data input.
68	P8/I-AUTO $\overline{1}$	O/I	FL segment P8 output / DECK1 AUTO STOP switch data input.
69	P9/I-CST $\overline{2}$	O/I	FL segment P9 output / DECK2 cassette detect switch data input.
70	P10/I-CST $\overline{1}$	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 $2160\text{kHz} \pm 45\text{Hz}$ (U,LH), $2052\text{kHz} \pm 45\text{Hz}$ (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 $1.3\text{V} \pm 0.05\text{V}$. 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 $7.0\text{V} \pm 0.1\text{V}$ (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 :
L941144kHz
TC942290kHz
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 13dB μ V.
10. AM IF Adjustment
Settings : • Test point : TP8(Lch), TP9(Rch)
• Adjustment location :
L802450kHz.
11. DC Balance / Mono Distortion Adjustment
Settings : • Test point : TP3, TP4 (DC Balance)
TP8(Lch), TP9(Rch) (Distortion)
• Adjustment location : L801
• Input level : 60dB μ V
Method : Set to FM 98.0MHz and adjust L801 so that the voltage between TP3 and TP4 becomes $0\text{V} \pm 500\text{mV}$.
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 $112.88\text{Hz} \pm 0.11\text{Hz}$.
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 $3000\text{Hz} \pm 5\text{Hz}$ (FWD) and $\text{FWD SPEED} \pm 45\text{Hz}$ (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 $110\text{mV} \pm 3.0\text{dB}$.

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)

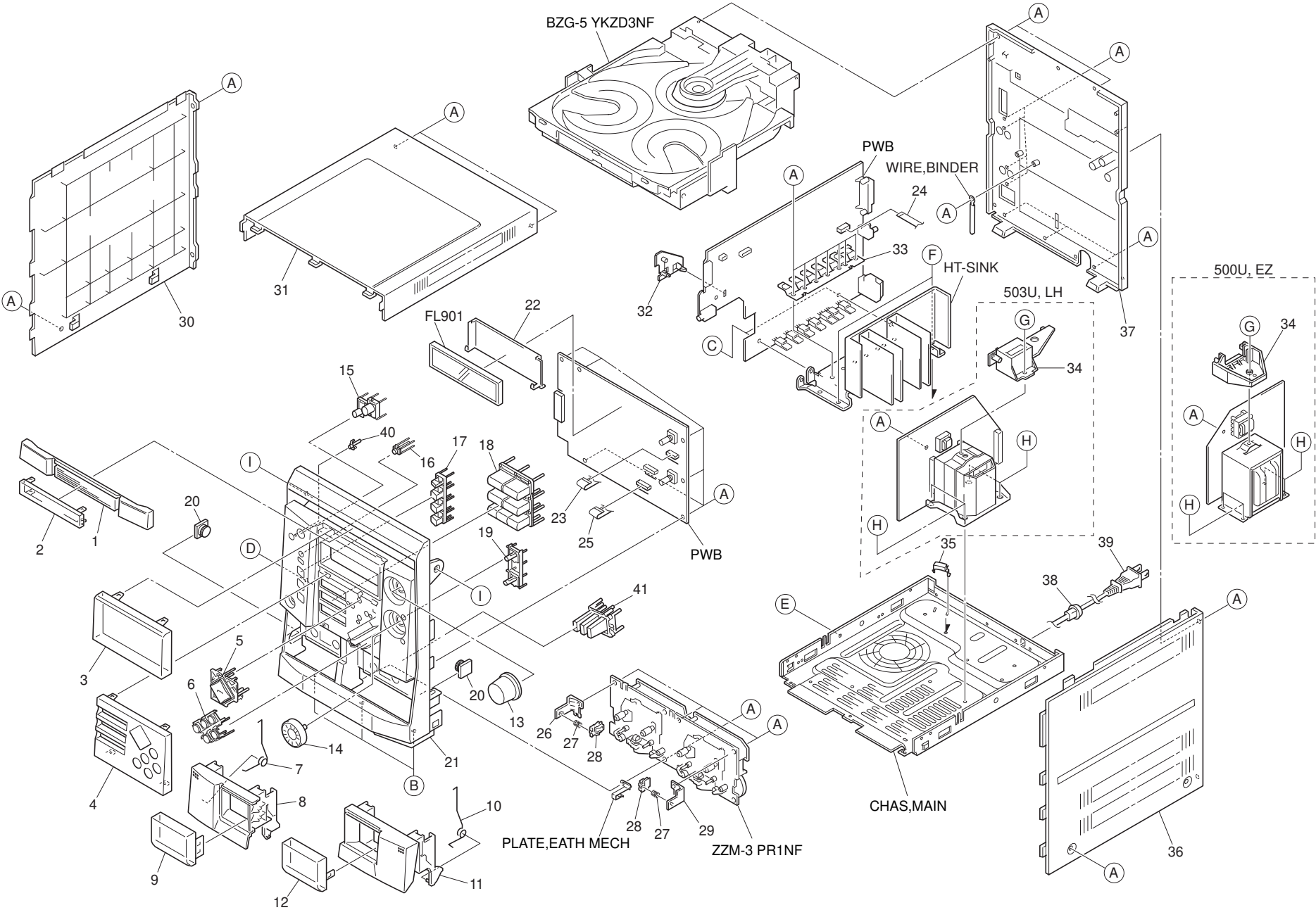
Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the TP8, TP9 becomes -20VU (10mV). Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output of the 10kHz signals becomes $0\text{B} \pm 0.5\text{dB}$ with respect to that of the 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 $-1\text{dB} \pm 3.5\text{dB}$.



MECHANICAL PARTS LIST 1 / 1

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

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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