

SERVICE MANUAL

STEREO AV RECEIVER

This Service Manual is the "Revision Publishing" and replaces "Simple Manual"
(S/M Code No.09-993-326-8T3).

SPECIFICATIONS

FM tuner section

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

AM tuner section

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

Amplifier section

Power output	[Stereo Mode] Front Rated: 110 W + 110 W (8 ohms, T.H.D. 1 %, 1 kHz) Reference: 135 W + 135 W (8 ohms, T.H.D. 10 %, 1 kHz) [Dolby Pro Logic or 5.1 CH Mode] Front Rated: 60 W + 60 W (8 ohms, T.H.D. 1 %, 1 kHz) Reference: 70 W + 70 W (8 ohms, T.H.D. 10 %, 1 kHz) Rear (Surround) Rated: 60 W + 60 W (8 ohms, T.H.D. 1 %, 1 kHz) Reference: 70 W + 70 W (8 ohms, T.H.D. 10 %, 1 kHz) Center Rated: 60 W (8 ohms, T.H.D. 1 %, 1 kHz) Reference: 70 W (8 ohms, T.H.D. 10 %, 1 kHz) 0.08 % (50 W, 1 kHz, 8 ohms, Front)
Total harmonic distortion	
Inputs	AUDIO IN PHONO: 2 mV, adjustable (47 kohms) CD, VIDEO 1/DVD/MD, VIDEO 2/LD/TV, VIDEO 3: 300 mV, adjustable (47 kohms) TAPE MONITOR: 240 mV (47 kohms) AUX: 240 mV, adjustable (47 kohms) 5.1 INPUT FRONT, CENTER: 300 mV, adjustable (47 kohms) SURROUND: 300 mV, adjustable (47 kohms) SUB-WOOFER: 300 mV, adjustable (47 kohms) VIDEO IN: 1 Vp-p (75 ohms)

Outputs

AUDIO OUT (REC OUT): 200 mV (1 kohm)
VIDEO OUT (MONITOR): 1 Vp-p (75 ohms)
SUPER WOOFER: 5.0 V
FRONT SPEAKERS IMP: 8 Ω
(front speakers A and B): accepts speakers of 8 ohms or more.
SURROUND SPEAKERS IMP: 8 Ω
(surround speakers): accepts speakers of 8 ohms or more
CENTER SPEAKER IMP: 8 Ω : accepts a speaker of 8 ohms or more.
PHONES (stereo jack): accepts headphones of 32 ohms or more
-20 dB

Muting

General

Power requirements	120/220-230/240 V AC, switchable, 50/60 Hz
Power consumption	180 W
Dimensions (W $\times$ H $\times$ D)	430 $\times$ 155 $\times$ 385 mm
Weight	10 kg

- Design and specifications are subject to change without notice.
- Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
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Laboratories Licensing Corporation.

ACCESSORIES/PACKAGE LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	87-006-225-010		AM LOOP ANT NC2
2	87-043-115-010		ANT, FEEDER FM
3	8Z-AR4-901-010		IB, H(EC-K)M
4	8Z-AR1-702-010		RC UNIT, RC-ZAR01
5	87-099-789-010		PLUG, ADPTR IR44



ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC					87-A40-469-080		C-DIODE, HSM2838CTR
	87-017-915-080	IC, BU4094BCF			87-A40-004-080		ZENER, MTZJ16A
	87-A20-870-010	IC, GP1F37R			87-A40-335-080		ZENER, MTZJ11C T-72
	87-017-888-080	IC, NJM4558MD			87-A40-224-010		DIODE, GBU8D
	8Z-AR1-633-010	C-IC, UPD780228GF			87-070-274-080		DIODE, 1N4003 SEM
	87-070-083-010	IC, GP1U281X			87-A40-435-080		ZENER, MTZJ30D
	87-001-604-080	IC, TC74HCU04F			87-A40-646-010		DIODE, FMB-G16L
	87-A20-824-010	C-IC, CS4226			87-A40-488-080		DIODE, 1SS244
	87-A21-257-040	C-IC, SN74LVC574A			87-017-931-080		ZENER, MTZJ5.6B
	87-A21-227-080	IC, LH28F400BVE-TL85			87-A40-438-080		ZENER, MTZJ4.7A
	87-A21-230-080	IC, CS4926			87-A40-234-080		ZENER, MTZJ5.6A
	87-A20-736-010	IC, BA033ST			87-A40-291-080		DIODE, 1N4148 (CPT)
	87-020-903-010	IC, NJM7805FA		MAIN C.B			
	87-017-022-080	IC, NJM2068M-D(T1)			87-033-147-010		FUSE CLAMP
	87-020-784-080	IC, TC4053BF		△	87-010-235-080		CAP, E 470-16 SME
	87-A21-018-040	C-IC, M65849BFP631D		C101	87-010-235-080		CAP, E 470-16 SME
	87-017-726-080	IC, BU4052 BCF		C102	87-010-384-080		CAP, ELECT 100-25V
	87-A21-202-040	C-IC, M62445AFP		C103	87-016-128-080		CAP, E 22-25 105
	87-A20-056-010	IC, BA3880S		C104	87-010-247-080		CAP, ELECT 100-50V
	87-A20-561-040	C-IC, M65847AFP		C105	87-010-384-080		CAP, ELECT 100-25V
	87-A20-437-010	C-IC, M62431FP		C106	87-012-140-080		CAP 470P
	87-070-127-110	IC, LC72131 D		C108	87-012-368-080		C-CAP, S 0.1-50 F
	87-A20-820-010	IC, BA7625		C109	87-012-368-080		C-CAP, S 0.1-50 F
	87-017-917-080	IC, BU4066BCF		C110	87-012-368-080		C-CAP, S 0.1-50 F
TRANSISTOR				C111	87-012-368-080		C-CAP, S 0.1-50 F
	87-A30-197-080	TR, KTA1267GR		C112	87-012-368-080		C-CAP, S 0.1-50 F
	87-026-245-080	TR, DTC114ES		C113	87-016-658-090		CAP, E 4700-35 SMG
	87-A30-198-080	TR, KTC3199GR		C114	87-016-658-090		CAP, E 4700-35 SMG
	87-A30-073-080	C-TR, RT1N 141C		C115	87-012-368-080		C-CAP, S 0.1-50 F
	87-A30-071-080	C-TR, RT1N 144C		C116	87-012-368-080		C-CAP, S 0.1-50 F
	89-110-372-080	TR, 2SA1037 (140MHZ 200MW)		C117	87-012-368-080		C-CAP, S 0.1-50 F
	89-213-750-010	TR, 2SB1375 (25W)		C118	87-012-368-080		C-CAP, S 0.1-50 F
	87-A30-083-080	TR, CSD1489B		C119	87-A10-462-090		CAP, E 6800-63 SMG VB
	87-A30-085-040	C-TR, CSA1362GR		C120	87-A10-462-090		CAP, E 6800-63 SMG VB
	87-A30-075-080	C-TR, 2SA1235F		C121	87-010-260-080		CAP, ELECT 47-25V
	89-112-965-080	TR, 2SA1296 (0.75W)		C122	87-010-403-080		CAP, ELECT 3.3-50V
	87-A30-076-080	C-TR, 2SC3052F		C123	87-010-384-080		CAP, ELECT 100-25V
	87-026-610-080	TR, KTC3198GR		C124	87-010-384-080		CAP, ELECT 100-25V
	89-213-702-010	TR, 2SB1370 (1.8W)		C125	87-010-247-080		CAP, ELECT 100-50V
	87-A30-072-080	C-TR, RT1P 144C		C126	87-010-263-080		CAP, ELECT 100-10V
	87-A30-087-080	C-FET, 2SK2158		C127	87-010-197-080		CAP, CHIP 0.01 DM
	87-A30-074-080	C-TR, RT1P 141C		C131	87-010-378-080		CAP, ELECT 10-16V
	87-026-263-080	C-TR, RN1410		C133	87-010-378-080		CAP, ELECT 10-16V
	87-026-609-080	TR, KTA1266GR		C135	87-012-368-080		C-CAP, S 0.1-50 F
	87-A30-257-080	C-TR, 2SD1306E		C136	87-012-368-080		C-CAP, S 0.1-50 F
	87-A30-107-070	C-TR, CMBT5401		C143	87-A10-712-080		C-CAP, S 0.22-50 Z F
	87-026-214-080	TR, DTA114YS (0.3W)		C144	87-A10-712-080		C-CAP, S 0.22-50 Z F
	87-A30-190-080	TR, CC5551		C149	87-010-154-080		CAP CHIP 10P
	87-A30-097-010	TR, FN 1016		C150	87-010-154-080		CAP CHIP 10P
	87-A30-098-010	TR, FP 1016		C153	87-018-209-080		CAP, CER 0.1-50V
	87-A30-106-070	C-TR, CMBT5551		C203	87-010-176-080		C-CAP, S 680P-50 SL
	87-A30-162-010	FET, 2SK2937		C204	87-010-176-080		C-CAP, S 680P-50 SL
	87-026-236-080	TR, DTC124E, K		C205	87-010-405-080		CAP, ELECT 10-50V
	87-026-232-080	TR, DTA144WK		C206	87-010-405-080		CAP, ELECT 10-50V
	87-A30-196-080	TR, 2SC4115SRS		C208	87-016-299-080		CAP, E 10-100 SME
	87-A30-086-070	C-TR, CSD1306E		C209	87-010-392-080		CAP ELECT 33SME-35V
	89-327-143-080	TR, 2SC2714 (0.1W)		C210	87-010-392-080		CAP ELECT 33SME-35V
DIODE				C211	87-010-322-080		C-CAP, S 100P-50 CH
	87-020-465-080	DIODE, 1SS133 (110MA)		C212	87-010-322-080		C-CAP, S 100P-50 CH
	87-A40-345-080	ZENER, MTZJ10C		C215	87-A10-897-080		CAP, E 100-25 BP SME
	87-A40-344-080	ZENER, MTZJ6.2C		C216	87-A10-897-080		CAP, E 100-25 BP SME
	87-A40-468-080	C-DIODE, HSM2836CTR		C217	87-A10-516-080		C-CAP, S 100P-200 J CH
	87-070-136-080	ZENER, MTZJ5.1B		C218	87-A10-516-080		C-CAP, S 100P-200 J CH
	87-A40-002-080	ZENER, MTZJ5.1C		C221	87-010-805-080		CAP, S 1-16
	87-A40-115-060	DIODE, RS603M		C222	87-010-805-080		CAP, S 1-16
				C223	87-010-402-080		CAP, ELECT 2.2-50V
				C224	87-010-402-080		CAP, ELECT 2.2-50V
				C225	87-010-196-080		CHIP CAPACITOR, 0.1-25
				C227	87-010-178-080		CHIP CAP 1000P

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C228	87-010-178-080		CHIP CAP 1000P	C511	87-010-404-080		CAP, ELECT 4.7-50V
C230	87-A10-354-080		C-CAP,S 0.047-50 K B	C512	87-010-404-080		CAP, ELECT 4.7-50V
C231	87-A10-354-080		C-CAP,S 0.047-50 K B	C513	87-010-260-080		CAP, ELECT 47-25V
C232	87-A10-946-080		C-CAP,S 220P-100 J CH	C514	87-010-260-080		CAP, ELECT 47-25V
C285	87-010-186-080		CAP,CHIP 4700P	C515	87-010-370-080		CAP,E 330-6.3 SME
C287	87-010-190-080		S CHIP F 0.01	C516	87-010-370-080		CAP,E 330-6.3 SME
C288	87-010-190-080		S CHIP F 0.01	C517	87-010-196-080		CHIP CAPACITOR,0.1-25
C289	87-010-190-080		S CHIP F 0.01	C518	87-010-196-080		CHIP CAPACITOR,0.1-25
C290	87-010-190-080		S CHIP F 0.01	C519	87-010-196-080		CHIP CAPACITOR,0.1-25
C291	87-012-368-080		C-CAP,S 0.1-50 F	C520	87-010-196-080		CHIP CAPACITOR,0.1-25
C292	87-012-368-080		C-CAP,S 0.1-50 F	C531	87-010-213-080		C-CAP,S 0.015-50 B
C293	87-012-368-080		C-CAP,S 0.1-50 F	C532	87-010-992-080		C-CAP,S 0.047-25 B
C294	87-012-368-080		C-CAP,S 0.1-50 F	C533	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C295	87-012-368-080		C-CAP,S 0.1-50 F	C535	87-010-404-080		CAP, ELECT 4.7-50V
C296	87-012-368-080		C-CAP,S 0.1-50 F	C536	87-010-404-080		CAP, ELECT 4.7-50V
C297	87-012-368-080		C-CAP,S 0.1-50 F	C539	87-010-401-080		CAP, ELECT 1-50V
C298	87-012-368-080		C-CAP,S 0.1-50 F	C540	87-010-401-080		CAP, ELECT 1-50V
C303	87-010-179-080		CAP,CHIP S B1200P	C541	87-010-185-080		C-CAP,S 3900P-50 B
C304	87-010-179-080		CAP,CHIP S B1200P	C542	87-010-185-080		C-CAP,S 3900P-50 B
C305	87-010-406-080		CAP, ELECT 22-50	C547	87-010-404-080		CAP, ELECT 4.7-50V
C306	87-010-406-080		CAP, ELECT 22-50	C548	87-010-404-080		CAP, ELECT 4.7-50V
C308	87-016-299-080		CAP,E 10-100 SME	C549	87-016-081-080		C-CAP,S 0.1-16 RK
C309	87-010-406-080		CAP, ELECT 22-50	C550	87-016-081-080		C-CAP,S 0.1-16 RK
C310	87-010-406-080		CAP, ELECT 22-50	C554	87-010-196-080		CHIP CAPACITOR,0.1-25
C311	87-010-322-080		C-CAP,S 100P-50 CH	C555	87-010-405-080		CAP, ELECT 10-50V
C312	87-010-322-080		C-CAP,S 100P-50 CH	C556	87-010-248-080		CAP, ELECT 220-10V
C315	87-A10-897-080		CAP,E 100-25 BP SME	C557	87-010-405-080		CAP, ELECT 10-50V
C316	87-A10-897-080		CAP,E 100-25 BP SME	C558	87-010-992-080		C-CAP,S 0.047-25 B
C317	87-A10-516-080		C-CAP,S 100P-200 J CH	C559	87-010-181-080		CAP,CHIP S 1800P
C318	87-A10-516-080		C-CAP,S 100P-200 J CH	C561	87-012-140-080		CAP 470P
C320	87-A10-946-080		C-CAP,S 220P-100 J CH	C562	87-012-140-080		CAP 470P
C321	87-010-805-080		CAP, S 1-16	C565	87-010-404-080		CAP, ELECT 4.7-50V
C322	87-010-805-080		CAP, S 1-16	C566	87-010-404-080		CAP, ELECT 4.7-50V
C323	87-010-402-080		CAP, ELECT 2.2-50V	C601	87-010-378-080		CAP, ELECT 10-16V
C324	87-010-402-080		CAP, ELECT 2.2-50V	C602	87-010-378-080		CAP, ELECT 10-16V
C325	87-010-196-080		CHIP CAPACITOR,0.1-25	C603	87-012-156-080		C-CAP,S 220P-50 CH
C327	87-010-178-080		CHIP CAP 1000P	C604	87-012-156-080		C-CAP,S 220P-50 CH
C328	87-010-178-080		CHIP CAP 1000P	C605	87-010-405-080		CAP, ELECT 10-50V
C330	87-A10-354-080		C-CAP,S 0.047-50 K B	C606	87-010-405-080		CAP, ELECT 10-50V
C331	87-A10-354-080		C-CAP,S 0.047-50 K B	C607	87-012-140-080		CAP 470P
C334	87-A10-918-080		CAP,E 100-16 SMG	C608	87-012-140-080		CAP 470P
C335	87-A10-918-080		CAP,E 100-16 SMG	C609	87-010-188-080		CAP,CHIP 6800P
C385	87-010-186-080		CAP,CHIP 4700P	C610	87-010-188-080		CAP,CHIP 6800P
C391	87-012-368-080		C-CAP,S 0.1-50 F	C611	87-010-197-080		CAP,CHIP 0.01 DM
C392	87-012-368-080		C-CAP,S 0.1-50 F	C612	87-010-195-080		C-CAP,S 0.068-25 F
C393	87-012-368-080		C-CAP,S 0.1-50 F	C613	87-010-195-080		C-CAP,S 0.068-25 F
C394	87-012-368-080		C-CAP,S 0.1-50 F	C614	87-010-197-080		CAP, CHIP 0.01 DM
C395	87-010-190-080		S CHIP F 0.01	C615	87-010-404-080		CAP, ELECT 4.7-50V
C396	87-010-190-080		S CHIP F 0.01	C616	87-010-404-080		CAP, ELECT 4.7-50V
C402	87-010-181-080		CAP,CHIP S 1800P	C617	87-010-404-080		CAP, ELECT 4.7-50V
C403	87-010-405-080		CAP, ELECT 10-50V	C618	87-010-404-080		CAP, ELECT 4.7-50V
C405	87-010-408-080		CAP, ELECT 47-50V	C619	87-010-404-080		CAP, ELECT 4.7-50V
C406	87-010-322-080		C-CAP,S 100P-50 CH	C620	87-010-101-080		CAP, ELECT 220-16
C408	87-A10-897-080		CAP,E 100-25 BP SME	C621	87-010-260-080		CAP, ELECT 47-25V
C409	87-A10-516-080		C-CAP,S 100P-200 J CH	C745	87-012-368-080		C-CAP,S 0.1-50 F
C411	87-010-805-080		CAP, S 1-16	C746	87-012-368-080		C-CAP,S 0.1-50 F
C412	87-010-402-080		CAP, ELECT 2.2-50V	C901	87-010-406-080		CAP, ELECT 22-50
C413	87-010-196-080		CHIP CAPACITOR,0.1-25	C902	87-010-406-080		CAP, ELECT 22-50
C414	87-010-178-080		CHIP CAP 1000P	C903	87-010-406-080		CAP, ELECT 22-50
C416	87-016-299-080		CAP,E 10-100 SME	C904	87-010-406-080		CAP, ELECT 22-50
C417	87-A10-946-080		C-CAP,S 220P-100 J CH	C905	87-010-406-080		CAP, ELECT 22-50
C430	87-A10-354-080		C-CAP,S 0.047-50 K B	C906	87-010-260-080		CAP, ELECT 47-25V
C485	87-010-186-080		CAP,CHIP 4700P	C907	87-010-196-080		CHIP CAPACITOR,0.1-25
C491	87-012-368-080		C-CAP,S 0.1-50 F	C908	87-010-387-080		CAP,E 470-25 SME
C492	87-012-368-080		C-CAP,S 0.1-50 F	C909	87-010-371-080		CAP, ELECT 470-6.3V
C493	87-010-190-080		S CHIP F 0.01	C910	87-010-371-080		CAP, ELECT 470-6.3V
C501	87-010-404-080		CAP, ELECT 4.7-50V	C911	87-010-371-080		CAP, ELECT 470-6.3V
C502	87-010-404-080		CAP, ELECT 4.7-50V	C912	87-010-196-080		CHIP CAPACITOR,0.1-25
C503	87-012-157-080		C-CAP,S 330P-50 CH	C913	87-010-196-080		CHIP CAPACITOR,0.1-25
C504	87-012-157-080		C-CAP,S 330P-50 CH	C914	87-010-196-080		CHIP CAPACITOR,0.1-25

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
CN110	87-A60-621-010		CONN, 4P V 2MM JMT	FRONT C.B			
CN501	87-A60-039-010		CONN, 32P V 9604S-32C	C101	87-010-178-080		CHIP CAP 1000P
CN502	87-A60-061-010		CONN, 06P V 9604S-06C	C103	87-010-178-080		CHIP CAP 1000P
CN503	87-A60-057-010		CONN, 11P V 9604S-11C	C105	87-016-526-080		C-CAP, S 0.47-16 BK
CN504	87-099-567-010		CONN, 10P TUC-P10P-B1	C107	87-016-526-080		C-CAP, S 0.47-16 BK
CN505	87-099-570-010		CONN, 13P TUC-P13P-B1	C108	87-016-526-080		C-CAP, S 0.47-16 BK
CN509	87-099-667-010		CONN, 8P TUC-P8P-B1	C109	87-010-322-080		C-CAP, S 100P-50 CH
CN702	87-099-568-010		CONN, 11P TUC-P11P-B1	C110	87-010-322-080		C-CAP, S 100P-50 CH
CNA201	8Z-AR4-606-010		CONN ASSY, 8P VH	C111	87-015-699-040		CAP, E 10-50 7L
CNA202	8Z-AR4-605-010		CONN ASSY, 6P VH	C112	87-010-322-080		C-CAP, S 100P-50 CH
J501	87-099-609-010		JACK, PIN 4P KM EARTH	C113	87-010-322-080		C-CAP, S 100P-50 CH
J502	87-099-609-010		JACK, PIN 4P KM EARTH	C114	87-010-322-080		C-CAP, S 100P-50 CH
J715	87-A60-244-010		JACK, PIN 1P BLK	C115	87-010-322-080		C-CAP, S 100P-50 CH
J750	87-A60-660-010		JACK, PIN 6P W/R, W/R, B/O(G)	C116	87-015-699-040		CAP, E 10-50 7L
J901	87-099-911-010		JACK, PIN 3P YEL	C117	87-016-526-080		C-CAP, S 0.47-16 BK
J902	87-099-912-010		JACK, PIN 3P YEL W/E	C118	87-010-498-040		CAP, E 10-16 GAS
J903	87-099-911-010		JACK, PIN 3P YEL	C120	87-015-694-040		E/CAP 0.47-50
J904	87-099-911-010		JACK, PIN 3P YEL	C121	87-016-526-080		C-CAP, S 0.47-16 BK
J905	87-099-911-010		JACK, PIN 3P YEL	C122	87-015-699-040		CAP, E 10-50 7L
L291	87-003-383-010		COIL, 1UH-S	C123	87-010-196-080		CHIP CAPACITOR, 0.1-25
L292	87-003-383-010		COIL, 1UH-S	C124	87-015-699-040		CAP, E 10-50 7L
L293	87-003-383-010		COIL, 1UH-S	C125	87-010-196-080		CHIP CAPACITOR, 0.1-25
L294	87-003-383-010		COIL, 1UH-S	C126	87-A10-189-040		CAP, E 220-10
L391	87-003-383-010		COIL, 1UH-S	C127	87-016-526-080		C-CAP, S 0.47-16 BK
L392	87-003-383-010		COIL, 1UH-S	C129	87-010-196-080		CHIP CAPACITOR, 0.1-25
L491	87-003-383-010		COIL, 1UH-S	C130	87-010-198-080		CAP, CHIP 0.022
L901	87-003-152-080		COIL, 100UH	C131	87-010-408-080		CAP, ELECT 47-50V
▲ PR101	87-026-682-080		PROTECTOR, 10A 60V491	C132	87-012-368-080		C-CAP, S 0.1-50 F
▲ PR104	87-026-682-080		PROTECTOR, 10A 60V491	C133	87-016-526-080		C-CAP, S 0.47-16 BK
▲ PR201	87-026-682-080		PROTECTOR, 10A 60V491	C134	87-010-196-080		CHIP CAPACITOR, 0.1-25
▲ PR202	87-026-682-080		PROTECTOR, 10A 60V491	C135	87-010-196-080		CHIP CAPACITOR, 0.1-25
▲ PR301	87-026-682-080		PROTECTOR, 10A 60V491	C136	87-016-526-080		C-CAP, S 0.47-16 BK
▲ PR302	87-026-682-080		PROTECTOR, 10A 60V491	C137	87-010-312-080		C-CAP, S 15P-50 CH
▲ PR401	87-026-682-080		PROTECTOR, 10A 60V491	C138	87-010-318-080		C-CAP, S 47P-50 CH
▲ PR402	87-026-682-080		PROTECTOR, 10A 60V491	C139	87-010-316-080		C-CAP, S 33P-50 CH
R109	87-029-060-080		RES, FUSE 33-1/4 W	C140	87-010-196-080		CHIP CAPACITOR, 0.1-25
R176	87-A00-401-050		RES, M/F 390-1W J VTP	C141	87-012-156-080		C-CAP, S 220P-50 CH
R179	87-A00-373-050		RES, M/F 270-1W J VTP	C142	87-010-198-080		CAP, CHIP 0.022
R180	87-A00-403-080		RES, M/F 560-1W J T52L25.5	C143	87-012-156-080		C-CAP, S 220P-50 CH
R211	87-A00-571-050		RES, M/F 0.15-2W J RZ	C144	87-010-178-080		CHIP CAP 1000P
R212	87-A00-571-050		RES, M/F 0.15-2W J RZ	C145	87-012-157-080		C-CAP, S 330P-50 CH
R231	87-A00-571-050		RES, M/F 0.15-2W J RZ	C146	87-012-157-080		C-CAP, S 330P-50 CH
R232	87-A00-571-050		RES, M/F 0.15-2W J RZ	C147	87-012-157-080		C-CAP, S 330P-50 CH
R233	87-A00-571-050		RES, M/F 0.15-2W J RZ	C148	87-012-157-080		C-CAP, S 330P-50 CH
R234	87-A00-571-050		RES, M/F 0.15-2W J RZ	C149	87-012-157-080		C-CAP, S 330P-50 CH
R281	87-A00-126-080		RES M/F 220-1/WJ VIP	C150	87-012-157-080		C-CAP, S 330P-50 CH
R282	87-A00-126-080		RES M/F 220-1/WJ VIP	C153	87-012-368-080		C-CAP, S 0.1-50 F
R283	87-A00-126-080		RES M/F 220-1/WJ VIP	C154	87-012-368-080		C-CAP, S 0.1-50 F
R284	87-A00-126-080		RES M/F 220-1/WJ VIP	C155	87-012-157-080		C-CAP, S 330P-50 CH
R331	87-A00-571-050		RES, M/F 0.15-2W J RZ	C156	87-015-699-040		CAP, E 10-50 7L
R332	87-A00-571-050		RES, M/F 0.15-2W J RZ	C157	87-012-157-080		C-CAP, S 330P-50 CH
R333	87-A00-571-050		RES, M/F 0.15-2W J RZ	C158	87-012-368-080		C-CAP, S 0.1-50 F
R334	87-A00-571-050		RES, M/F 0.15-2W J RZ	C160	87-012-157-080		C-CAP, S 330P-50 CH
R416	87-A00-571-050		RES, M/F 0.15-2W J RZ	C162	87-010-182-080		C-CAP, S 220P-50 B
R417	87-A00-571-050		RES, M/F 0.15-2W J RZ	C164	87-A10-189-040		CAP, E 220-10
R424	87-A00-571-050		RES, M/F 0.15-2W J RZ	C170	87-012-157-080		C-CAP, S 330P-50 CH
R590	87-A00-571-050		RES, M/F 0.15-2W J RZ	C171	87-012-157-080		C-CAP, S 330P-50 CH
R611	87-A00-571-050		RES, M/F 0.15-2W J RZ	C181	87-010-178-080		CHIP CAP 1000P
R905	87-010-317-080		C-CAP, S 39P-50 CH	C182	87-010-178-080		CHIP CAP 1000P
S291	87-A90-174-010		SW, PUSH 2-2-2	C183	87-010-178-080		CHIP CAP 1000P
S292	87-A90-174-010		SW, PUSH 2-2-2	C184	87-010-178-080		CHIP CAP 1000P
TH201	87-A91-081-080		C-THMS, 100K-K 20P	C185	87-010-178-080		CHIP CAP 1000P
TH202	87-A91-081-080		C-THMS, 100K-K 20P	C186	87-010-178-080		CHIP CAP 1000P
TH301	87-A91-081-080		C-THMS, 100K-K 20P	C187	87-010-178-080		CHIP CAP 1000P
TH302	87-A91-081-080		C-THMS, 100K-K 20P	C188	87-010-178-080		CHIP CAP 1000P
TH401	87-A91-081-080		C-THMS, 100K-K 20P	C189	87-010-178-080		CHIP CAP 1000P
W3	8Z-AR2-606-010		CONN ASSY, 9P VH	C190	87-010-178-080		CHIP CAP 1000P
WH101	87-A90-510-010		HLDR, WIRE 2.5-9P	C240	87-016-526-080		C-CAP, S 0.47-16 BK
				C401	87-010-178-080		CHIP CAP 1000P

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C402	87-012-156-080	C-CAP,S 220P-50 CH		C755	87-012-286-080	CAP, U 0.01-25	
C405	87-010-182-080	C-CAP,S 2200P-50 B		C756	87-012-286-080	CAP, U 0.01-25	
C406	87-010-182-080	C-CAP,S 2200P-50 B		C757	87-012-188-080	C-CAP,U 47P-50 CH	
C407	87-010-178-080	CHIP CAP 1000P		C758	87-012-167-080	C-CAP,U 5P-50 CH	
C409	87-010-196-080	CHIP CAPACITOR,0.1-25		C761	87-010-196-080	CHIP CAPACITOR,0.1-25	
C411	87-010-322-080	C-CAP,S 100P-50 CH		C763	87-010-829-080	CAP, U 0.047-16	
C412	87-010-322-080	C-CAP,S 100P-50 CH		C764	87-012-337-080	C-CAP,U 56P-50 CH	
CN201	87-A60-053-010	CONN,17P V 9604S-17C		C765	87-012-286-080	CAP, U 0.01-25	
CN202	87-A60-039-010	CONN,32P V 9604S-32C		C766	87-012-286-080	CAP, U 0.01-25	
CN203	87-A60-061-010	CONN,06P V 9604S-06C		C769	87-010-260-080	CAP, ELECT 47-25V	
CN401	87-009-371-010	CONNECTOR, 6P		C770	87-010-829-080	CAP, U 0.047-16	
D102	87-A40-496-040	LED,SLR-342MCT31 GRN		C771	87-010-383-080	CAP, ELECT 33-25V	
D103	87-A40-496-040	LED,SLR-342MCT31 GRN		C772	87-010-829-080	CAP, U 0.047-16	
D105	87-A40-496-040	LED,SLR-342MCT31 GRN		C773	87-010-196-080	CHIP CAPACITOR,0.1-25	
D107	87-A40-496-040	LED,SLR-342MCT31 GRN		C774	87-010-263-080	CAP, ELECT 100-10V	
D109	87-A40-496-040	LED,SLR-342MCT31 GRN		C775	87-010-404-080	CAP, ELECT 4.7-50V	
D111	87-A40-496-040	LED,SLR-342MCT31 GRN		C776	87-012-286-080	CAP, U 0.01-25	
D113	87-A40-496-040	LED,SLR-342MCT31 GRN		C777	87-010-400-080	CAP, ELECT 0.47-50V	
D115	87-A40-496-040	LED,SLR-342MCT31 GRN		C778	87-010-401-080	CAP, ELECT 1-50V	
D117	87-A40-496-040	LED,SLR-342MCT31 GRN		C779	87-010-401-080	CAP, ELECT 1-50V	
FL101	8Z-AR1-602-010	FL,BJ691 GK		C780	87-010-196-080	CHIP CAPACITOR,0.1-25	
LED101	87-A40-317-080	LED,SLR-342VCT31 RED		C781	87-010-405-080	CAP, ELECT 10-50V	
LED104	87-A40-317-080	LED,SLR-342VCT31 RED		C782	87-010-405-080	CAP, ELECT 10-50V	
LED106	87-A40-317-080	LED,SLR-342VCT31 RED		C783	87-012-286-080	CAP, U 0.01-25	
LED108	87-A40-317-080	LED,SLR-342VCT31 RED		C784	87-012-286-080	CAP, U 0.01-25	
LED110	87-A40-317-080	LED,SLR-342VCT31 RED		C785	87-010-805-080	CAP, S 1-16	
LED112	87-A40-317-080	LED,SLR-342VCT31 RED		C786	87-010-805-080	CAP, S 1-16	
LED114	87-A40-317-080	LED,SLR-342VCT31 RED		C787	87-012-280-080	CAP, U 3300P-50	
LED116	87-A40-317-080	LED,SLR-342VCT31 RED		C788	87-012-280-080	CAP, U 3300P-50	
LED119	87-A40-317-080	LED,SLR-342VCT31 RED		C789	87-012-275-080	C-CAP,U 1200P-50 B	
S101	87-A90-095-080	SW,TACT EVQ11G04M		C790	87-012-275-080	C-CAP,U 1200P-50 B	
S102	87-A90-095-080	SW,TACT EVQ11G04M		C791	87-010-405-080	CAP, ELECT 10-50V	
S103	87-A90-095-080	SW,TACT EVQ11G04M		C793	87-012-273-080	C-CAP,U 820P-50 B	
S104	87-A90-095-080	SW,TACT EVQ11G04M		C794	87-010-406-080	CAP, ELECT 22-50	
S105	87-A90-095-080	SW,TACT EVQ11G04M		C795	87-010-596-080	CAP, S 0.047-16	
S106	87-A90-095-080	SW,TACT EVQ11G04M		C796	87-010-403-080	CAP, ELECT 3.3-50V	
S107	87-A90-095-080	SW,TACT EVQ11G04M		C797	87-012-276-080	CAP, CHIP SS 1500 PBK	
S108	87-A90-095-080	SW,TACT EVQ11G04M		C798	87-012-276-080	CAP, CHIP SS 1500 PBK	
S109	87-A90-095-080	SW,TACT EVQ11G04M		C799	87-010-829-080	CAP, U 0.047-16	
S110	87-A90-095-080	SW,TACT EVQ11G04M		C812	87-012-286-080	CAP, U 0.01-25	
S111	87-A90-095-080	SW,TACT EVQ11G04M		C813	87-010-197-080	CAP, CHIP 0.01 DM	
S112	87-A90-095-080	SW,TACT EVQ11G04M		C814	87-012-286-080	CAP, U 0.01-25	
S113	87-A90-095-080	SW,TACT EVQ11G04M		C819	87-010-197-080	CAP, CHIP 0.01 DM	
S114	87-A90-095-080	SW,TACT EVQ11G04M		C820	87-010-260-080	CAP, ELECT 47-25V	
S115	87-A90-095-080	SW,TACT EVQ11G04M		C821	87-012-286-080	CAP, U 0.01-25	
S116	87-A90-095-080	SW,TACT EVQ11G04M		C822	87-012-286-080	CAP, U 0.01-25	
SW101	87-A90-535-010	SW,RTRY EC16B24304		C823	87-012-286-080	CAP, U 0.01-25	
SW102	87-A90-950-010	SW,RTRY EC12E12504 ENCODER		C828	87-010-196-080	CHIP CAPACITOR,0.1-25	
				C829	87-010-196-080	CHIP CAPACITOR,0.1-25	
				C959	87-010-196-080	CHIP CAPACITOR,0.1-25	
TUNER C.B				C960	87-010-196-080	CHIP CAPACITOR,0.1-25	
C701	87-010-260-080	CAP, ELECT 47-25V		C961	87-012-170-080	C-CAP,U 8P-50 CH	
C702	87-010-404-080	CAP, ELECT 4.7-50V		CF801	87-008-261-010	FILTER, SFE10.7MA5-A	
C703	87-012-286-080	CAP, U 0.01-25		CF802	87-008-261-010	FILTER, SFE10.7MA5-A	
C704	87-012-286-080	CAP, U 0.01-25		FFE801	A8-8ZA-190-030	8ZA-1 FEUNM	
C711	87-010-263-080	CAP, ELECT 100-10V		J801	87-A60-657-010	TERMINAL,4P HSP-154V5-02	
C712	87-010-196-080	CHIP CAPACITOR,0.1-25		L771	87-A50-266-010	COIL,FM DET-2N(TOK)	
C713	87-012-286-080	CAP, U 0.01-25		L772	87-A90-733-010	FLTR,PCFAZH-450 (TOK)	
C714	87-012-286-080	CAP, U 0.01-25		L781	87-005-847-080	COIL,2.2UH(CECS)	
C717	87-012-286-080	CAP, U 0.01-25		L791	87-A50-027-010	COIL,1 POLE MPX(TOK)	
C719	87-012-286-080	CAP, U 0.01-25		L792	87-A50-027-010	COIL,1 POLE MPX(TOK)	
C721	87-012-176-080	CAP 15P		L832	87-005-847-080	COIL,2.2UH(CECS)	
C722	87-012-176-080	CAP 15P		L981	87-NF4-650-010	COIL,AM PACK 4N(TOK)	
C723	87-010-401-080	CAP, ELECT 1-50V		X721	87-A70-061-010	VIB,XTAL 4.500MHZ CSA-309	
C723	87-012-274-080	CHIP CAP,U 1000P-50B					
C725	87-012-274-080	CHIP CAP,U 1000P-50B					
C726	87-010-401-080	CAP, ELECT 1-50V		PROLOGIC C.B			
C727	87-010-196-080	CHIP CAPACITOR,0.1-25		C801	87-010-176-080	C-CAP,S 680P-50 SL	
C728	87-010-248-080	CAP, ELECT 220-10V		C802	87-010-176-080	C-CAP,S 680P-50 SL	
C750	87-010-196-080	CHIP CAPACITOR,0.1-25		C803	87-010-949-080	CHIP CAPACITOR,S 0.01-50 BJ	

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C804	87-010-949-080		CHIP CAPACITOR,S 0.01-50 BJ	C502	87-018-209-080		CAP, CER 0.1-50V
C805	87-010-949-080		CHIP CAPACITOR,S 0.01-50 BJ	C503	87-010-188-080		CAP,CHIP 6800P
C806	87-010-949-080		CHIP CAPACITOR,S 0.01-50 BJ	C504	87-010-188-080		CAP,CHIP 6800P
C807	87-010-405-080		CAP, ELECT 10-50V	C507	87-018-209-080		CAP, CER 0.1-50V
C808	87-010-405-080		CAP, ELECT 10-50V				
C809	87-016-081-080		C-CAP,S 0.1-16 RK	GEQ C.B			
C810	87-010-112-080		CAP, ELECT 100-16V				
C811	87-010-402-080		CAP, ELECT 2.2-50V	C758	87-010-404-080		CAP, ELECT 4.7-50V
C812	87-010-401-080		CAP, ELECT 1-50V	C759	87-012-368-080		C-CAP,S 0.1-50 F
C814	87-010-401-080		CAP, ELECT 1-50V	C761	87-010-198-080		CAP, CHIP 0.022
				C762	87-010-197-080		CAP, CHIP 0.01 DM
C815	87-010-546-080		CAP, ELECT 0.33-50V	C764	87-010-185-080		C-CAP,S 3900P-50 B
C816	87-010-546-080		CAP, ELECT 0.33-50V				
C817	87-010-247-080		CAP, ELECT 100-50V	C765	87-010-194-080		CAP, CHIP 0.047
C818	87-010-404-080		CAP, ELECT 4.7-50V	C766	87-010-181-080		CAP,CHIP S 1800P
C819	87-010-188-080		CAP,CHIP 6800P	C767	87-010-198-080		CAP, CHIP 0.022
				C768	87-010-994-080		C-CAP,S 680P-50 CH
C820	87-010-374-080		CAP, ELECT 47-10V	C769	87-010-188-080		CAP,CHIP 6800P
C821	87-016-081-080		C-CAP,S 0.1-16 RK				
C822	87-016-083-080		C-CAP,S 0.15-16 RK	C770	87-012-145-080		CAP, CHIP S 270P CH
C823	87-010-263-080		CAP, ELECT 100-10V	C771	87-010-183-080		C-CAP,S 2700P-50 B
C824	87-010-374-080		CAP, ELECT 47-10V	C772	87-012-145-080		CAP, CHIP S 270P CH
				C773	87-010-188-080		CAP,CHIP 6800P
C825	87-016-081-080		C-CAP,S 0.1-16 RK	C774	87-010-994-080		C-CAP,S 680P-50 CH
C826	87-010-166-080		C-CAP,S 100P-50 SL				
C827	87-010-166-080		C-CAP,S 100P-50 SL	C775	87-010-198-080		CAP, CHIP 0.022
C828	87-010-166-080		C-CAP,S 100P-50 SL	C776	87-010-181-080		CAP,CHIP S 1800P
C829	87-010-401-080		CAP, ELECT 1-50V	C777	87-010-194-080		CAP, CHIP 0.047
				C778	87-010-185-080		C-CAP,S 3900P-50 B
C830	87-010-546-080		CAP, ELECT 0.33-50V	C780	87-010-197-080		CAP, CHIP 0.01 DM
C831	87-010-971-080		C-CAP,S 4700P-50 B J				
C832	87-012-349-080		C-CAP,S 1000P-50 CH	C782	87-010-183-080		C-CAP,S 2700P-50 B
C837	87-010-971-080		C-CAP,S 4700P-50 B J	C783	87-010-198-080		CAP, CHIP 0.022
C838	87-012-349-080		C-CAP,S 1000P-50 CH	C786	87-010-402-080		CAP, ELECT 2.2-50V
				C787	87-010-402-080		CAP, ELECT 2.2-50V
C839	87-010-401-080		CAP, ELECT 1-50V	C788	87-010-260-080		CAP, ELECT 47-25V
C840	87-010-401-080		CAP, ELECT 1-50V				
C841	87-A10-799-080		C-CAP,S 5600P-16 J B CM	C789	87-010-260-080		CAP, ELECT 47-25V
C842	87-A10-802-080		C-CAP,S 0.047-16 J B CM	C790	87-010-260-080		CAP, ELECT 47-25V
C843	87-A10-229-080		C-CAP,S 0.68-10 K W5	C791	87-010-405-080		CAP, ELECT 10-50V
				C792	87-010-405-080		CAP, ELECT 10-50V
C844	87-012-393-080		C-CAP,S 0.22-16 R K	C793	87-012-368-080		C-CAP,S 0.1-50 F
C845	87-012-393-080		C-CAP,S 0.22-16 R K				
C846	87-010-404-080		CAP, ELECT 4.7-50V	C794	87-012-368-080		C-CAP,S 0.1-50 F
C847	87-010-404-080		CAP, ELECT 4.7-50V	C797	87-010-322-080		C-CAP,S 100P-50 CH
C848	87-012-393-080		C-CAP,S 0.22-16 R K	C798	87-010-322-080		C-CAP,S 100P-50 CH
				C799	87-010-322-080		C-CAP,S 100P-50 CH
C849	87-012-393-080		C-CAP,S 0.22-16 R K	CN401	87-099-758-010		CONN,17P H 9604
C850	87-016-081-080		C-CAP,S 0.1-16 RK				
C851	87-A10-802-080		C-CAP,S 0.047-16 J B CM	CN701	87-099-557-010		CONN,11P TUC-P11X-B1
C852	87-A10-802-080		C-CAP,S 0.047-16 J B CM	FB501	87-008-372-080		FILTER, EMI BL OIRNI
C853	87-016-081-080		C-CAP,S 0.1-16 RK	FB602	87-008-372-080		FILTER, EMI BL OIRNI
				J501	87-A60-948-010		JACK,PIN 3P R/W/Y GLD
C854	87-016-081-080		C-CAP,S 0.1-16 RK	J603	87-A60-550-010		JACK,DIA6.3 BLK ST W/SW KM
C855	87-A10-801-080		C-CAP,S 0.022-16 J B CM				
C856	87-A10-801-080		C-CAP,S 0.022-16 J B CM	LED401	87-A40-317-080		LED,SLR-342VCT31 RED
C857	87-016-081-080		C-CAP,S 0.1-16 RK	R773	87-010-188-080		CAP,CHIP 6800P
C861	87-016-081-080		C-CAP,S 0.1-16 RK	S401	87-A90-095-080		SW,TACT EVQ11G04M
				S402	87-A90-095-080		SW,TACT EVQ11G04M
C862	87-010-263-080		CAP, ELECT 100-10V	S403	87-A90-095-080		SW,TACT EVQ11G04M
C863	87-016-081-080		C-CAP,S 0.1-16 RK				
C864	87-010-263-080		CAP, ELECT 100-10V	SW401	87-A91-373-010		SW,RTRY EC16B1220408
C865	87-012-393-080		C-CAP,S 0.22-16 R K				
C867	87-A10-201-080		C-CAP,S0.33-16 KB				
				MIC C.B			
C868	87-A10-060-080		C-CAP,S 0.18-16 K B				
C869	87-010-166-080		C-CAP,S 100P-50 SL	C601	87-010-196-080		CHIP CAPACITOR,0.1-25
C870	87-010-166-080		C-CAP,S 100P-50 SL	C602	87-010-560-040		CAP,E 10-50 GAS
C871	87-010-166-080		C-CAP,S 100P-50 SL	C603	87-010-491-040		CAP,E 0.22-50 GAS
C878	87-010-401-080		CAP, ELECT 1-50V	C604	87-A10-189-040		CAP,E 220-10
				C605	87-010-322-080		C-CAP,S 100P-50 CH
C891	87-010-404-080		CAP, ELECT 4.7-50V				
C892	87-010-404-080		CAP, ELECT 4.7-50V	C606	87-010-321-080		CHIP CAPACITOR,82P(J)
CN801	87-099-556-010		CONN,10P TUC-P10X-B1	C607	87-010-196-080		CHIP CAPACITOR,0.1-25
CN802	87-099-559-010		CONN,13P TUC-P13X-B1	C608	87-010-186-080		CAP,CHIP 4700P
				C609	87-010-188-080		CAP,CHIP 6800P
				C610	87-010-560-040		CAP,E 10-50 GAS
VIDEO C.B							
C101	87-018-131-080		CAP, CER 1000P-50V	C611	87-010-322-080		C-CAP,S 100P-50 CH
C102	87-010-186-080		CAP,CHIP 4700P	C612	87-010-177-080		C-CAP,S 820P-50 SL
C501	87-018-209-080		CAP, CER 0.1-50V	C613	87-010-552-040		CAP,E 22-16 GAS
				C614	87-015-695-040		E/CAP 1UF 50V TAPG

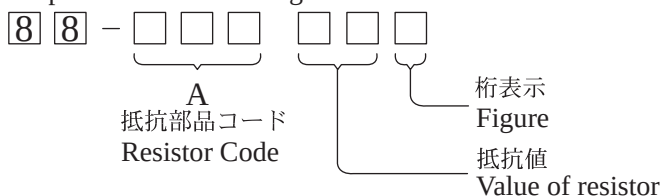
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
CN601	87-009-362-010		CONN, 6P, BTMK P-1R	C1	87-010-387-010		CAP, ELECT 25-470SME
FB601	87-008-372-080		FILTER, EMI BL OIRNI	C2	87-010-403-080		CAP, ELECT 3.3-50V
J601	87-A60-188-010		JACK, 6.3 BLK MONO W/SW MIC	C3	87-018-209-080		CAP, CER 0.1-50V
J602	87-A60-188-010		JACK, 6.3 BLK MONO W/SW MIC	C4	87-018-209-080		CAP, CER 0.1-50V
				C7	87-A10-922-090		CAP, CER 0.01-250 M F KH
OSD/KEY CON C.B				C13	87-018-209-080		CAP, CER 0.1-50V
C652	87-010-196-080		CHIP CAPACITOR, 0.1-25	CN101	88-805-042-690		CONN ASSY, 4P
C653	87-012-154-080		C-CAP, S 150P-50 CH	CN103	87-A60-851-010		CONN, 9P V VH
C654	87-010-183-080		C-CAP, S 2700P-50 B	△PR105	87-026-691-080		FUSE, 10A 125V 251
C655	87-010-196-080		CHIP CAPACITOR, 0.1-25	△PR106	87-026-691-080		FUSE, 10A 125V 251
C656	87-012-154-080		C-CAP, S 150P-50 CH	△PT101	8Z-AR3-602-010		PT, ZAR-3(HR)
C657	87-010-183-080		C-CAP, S 2700P-50 B	△PT2	8Z-NF8-663-010		PT, SUB ZNF-8(H)
C658	87-012-145-080		CAP, CHIP S 270P CH	△RY1	87-A90-454-010		RELAY, 12V DJ12D2-0(M)
C659	87-010-177-080		C-CAP, S 820P-50 SL	AC-SW C.B			
C670	87-012-145-080		CAP, CHIP S 270P CH	△	87-033-147-010		FUSE CLAMP
C671	87-010-177-080		C-CAP, S 820P-50 SL	△	87-A60-317-010		TERMINAL, 1P MSC
C672	87-010-196-080		CHIP CAPACITOR, 0.1-25	△F101	87-035-370-010		FUSE, 6.3A 250V
C673	87-010-196-080		CHIP CAPACITOR, 0.1-25	△F102	87-035-370-010		FUSE, 6.3A 250V
C674	87-010-196-080		CHIP CAPACITOR, 0.1-25	△SW101	87-A90-165-010		SW, SL 1-2-3 SWS2301
C675	87-010-263-080		CAP, ELECT 100-10V				
C676	87-010-374-080		CAP, ELECT 47-10V				
CN508	87-099-669-010		CONN, 8P TUC-P8X-B1	SPKR C.B			
PT C.B				CN201	87-099-799-010		CONN, 8P B8P-VH
△	87-033-147-010		FUSE CLAMP	CN202	87-009-663-010		CONN, 6P VH V
				J901	87-033-211-010		TERMINAL, 8P SPKR0820
				J902	87-A60-965-010		TERMINAL, SP 6P LTS0620

- Regarding connectors, they are not stocked as they are not the initial order items.
The connectors are available after they are supplied from connector manufacturers upon the order is received.

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

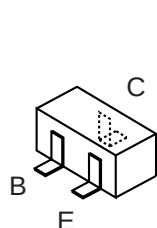
Chip Resistor Part Coding



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

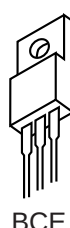
TRANSISTOR ILLUSTRATION



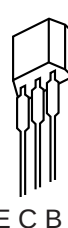
2SA1037 DTA144WK
2SA1235 DTC124EK
2SC2714 RT1N141C
2SC3052 RT1N144C
2SD1306 RT1P141C
CMBT5551 RT1P144C



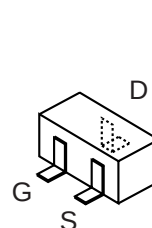
2SA1296 CC5551
DTC114ES KTA1266GR
KTC3198GR



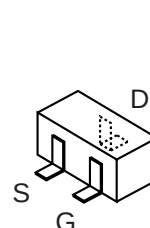
2SB1370 2SB1375
KTC3199GR



2SC4115

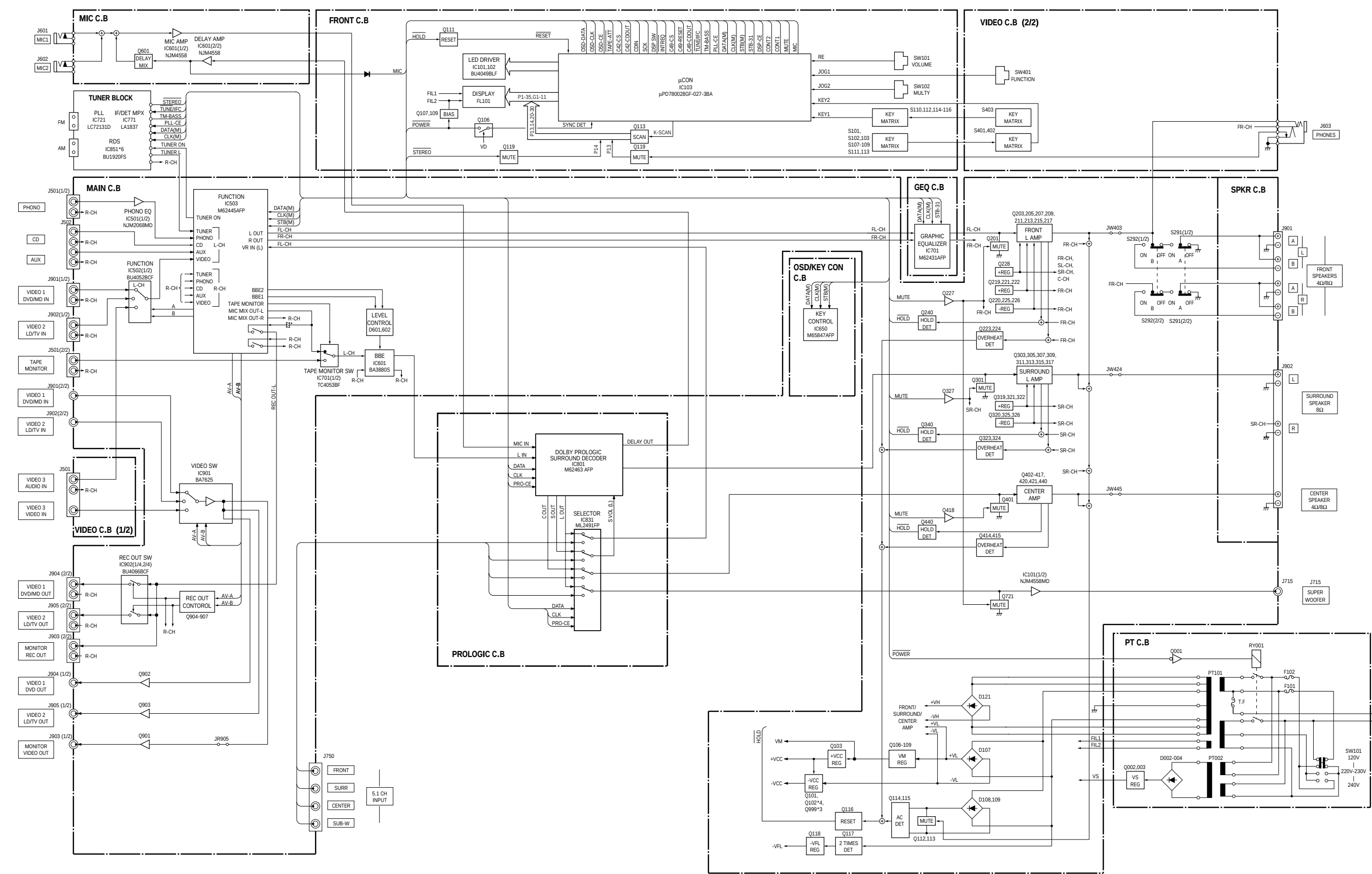


2SK2158 2SK2937

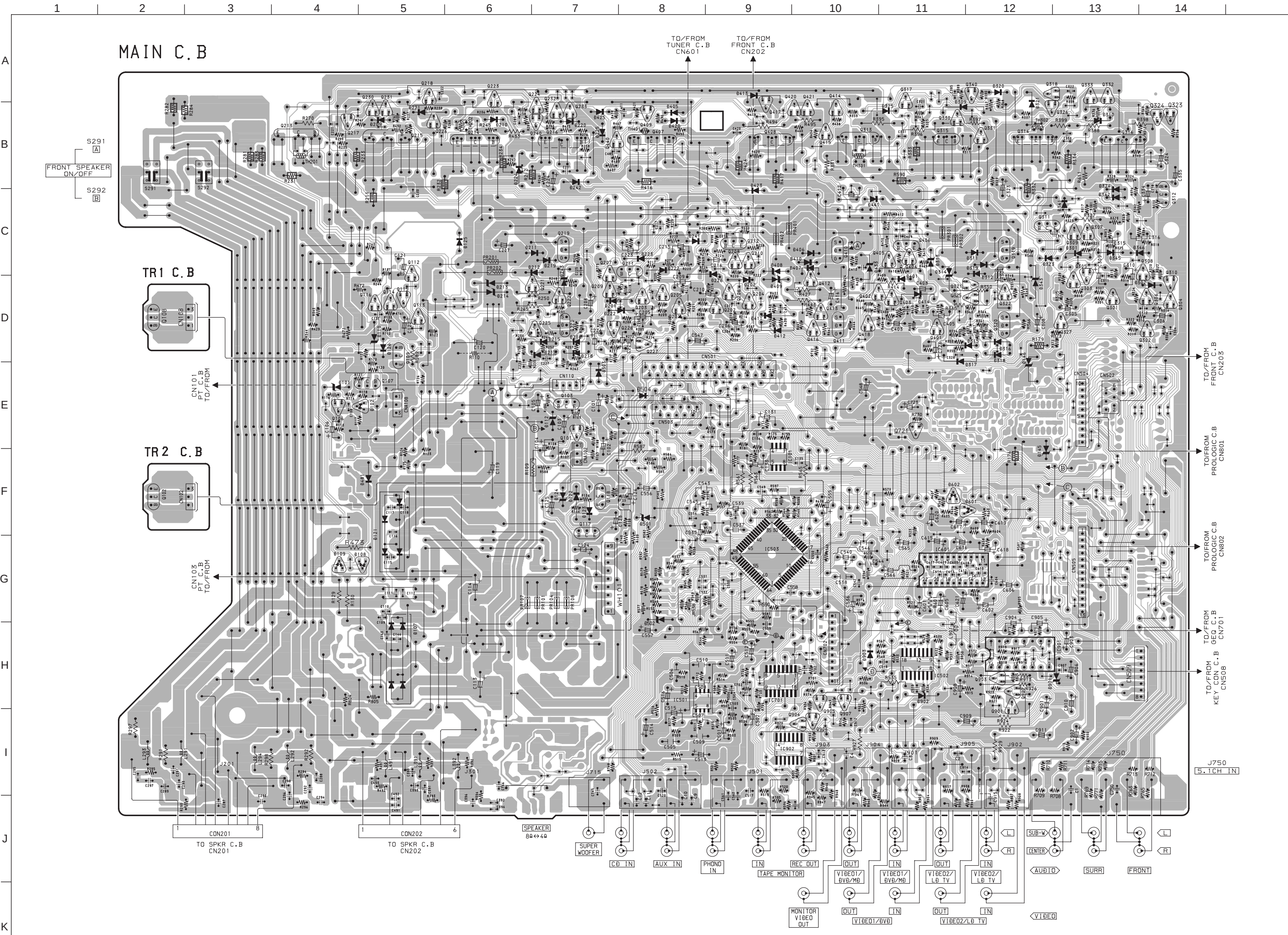


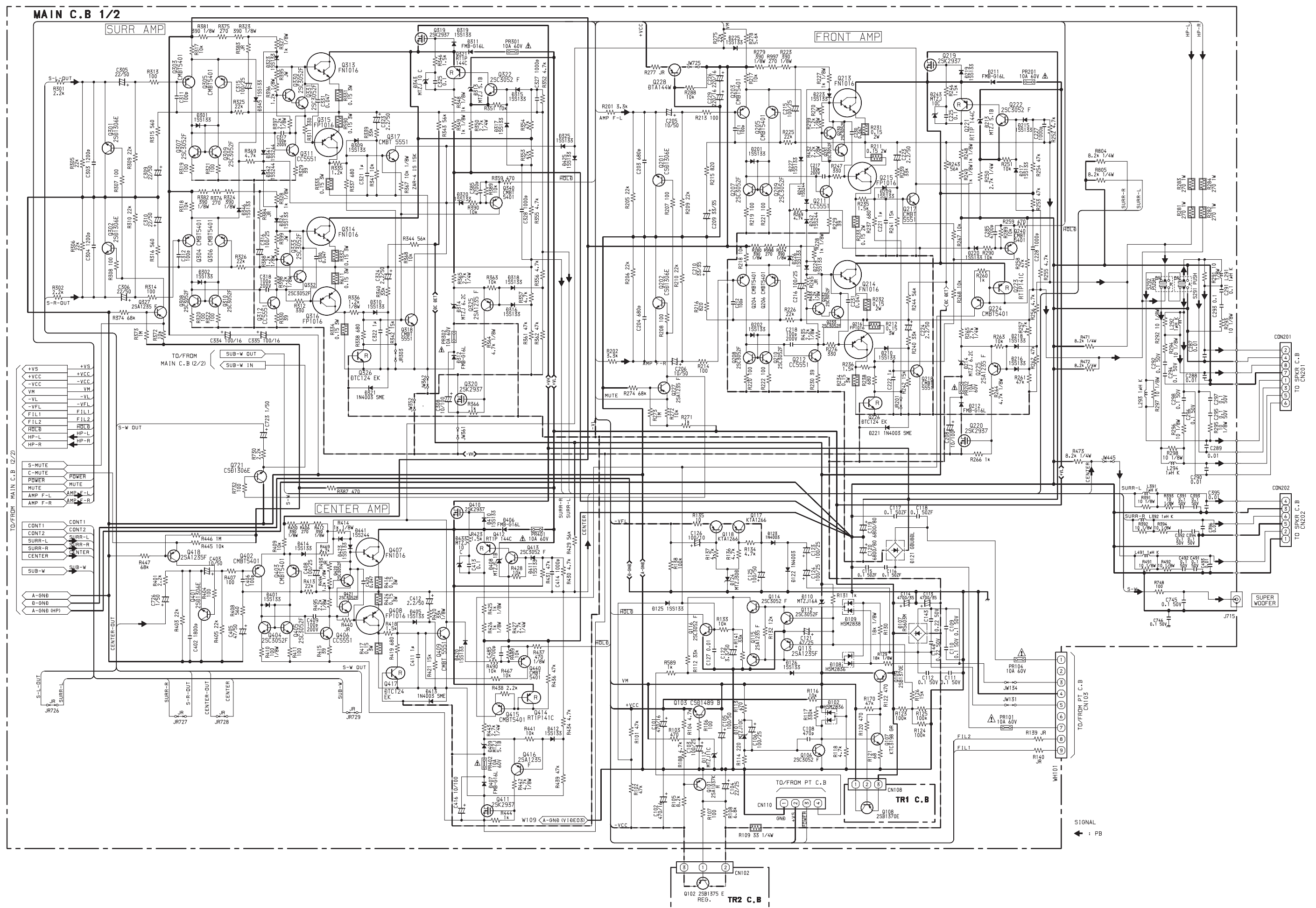
2SK360E

BLOCK DIAGRAM

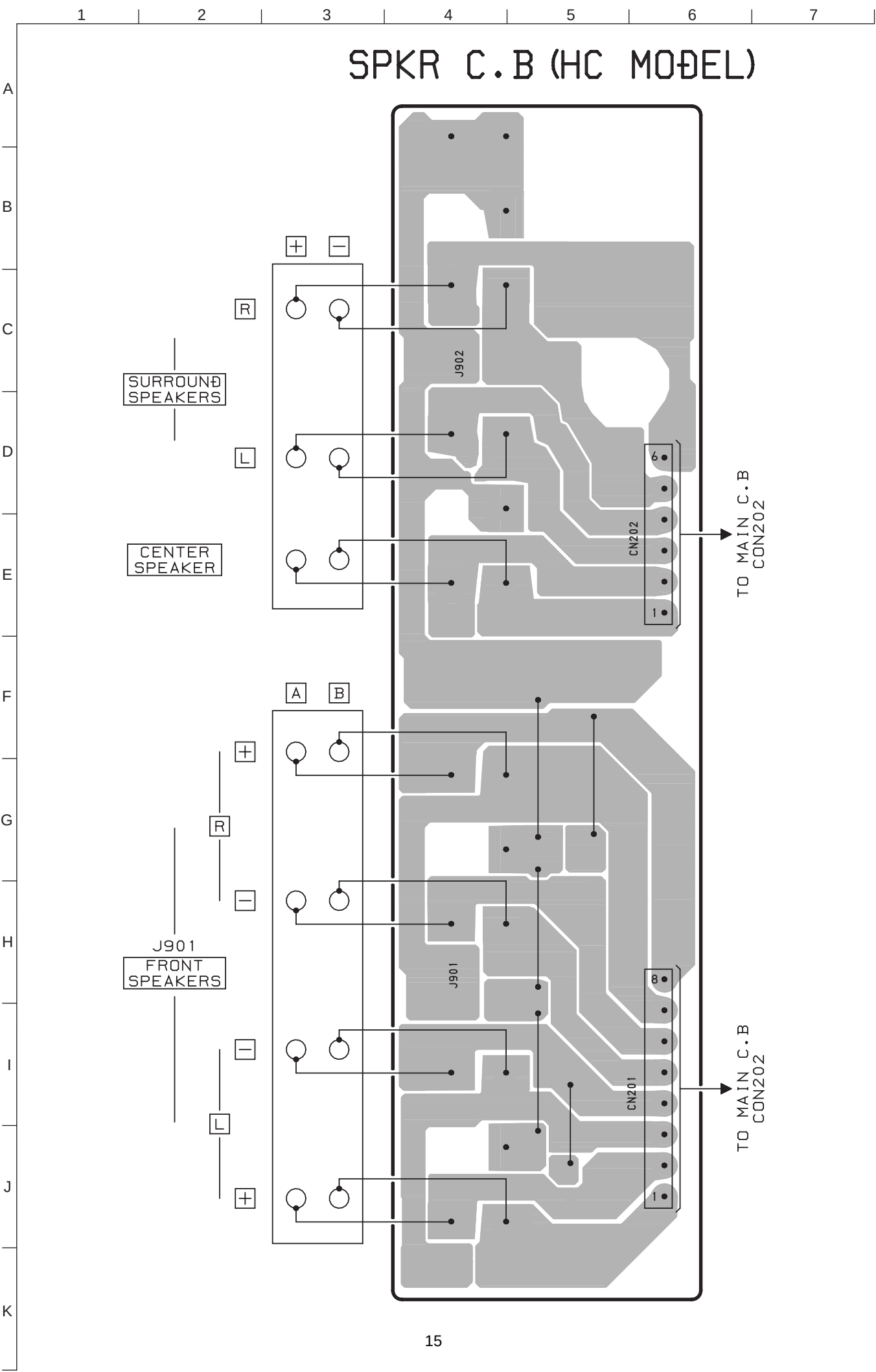


WIRING-1 (MAIN)

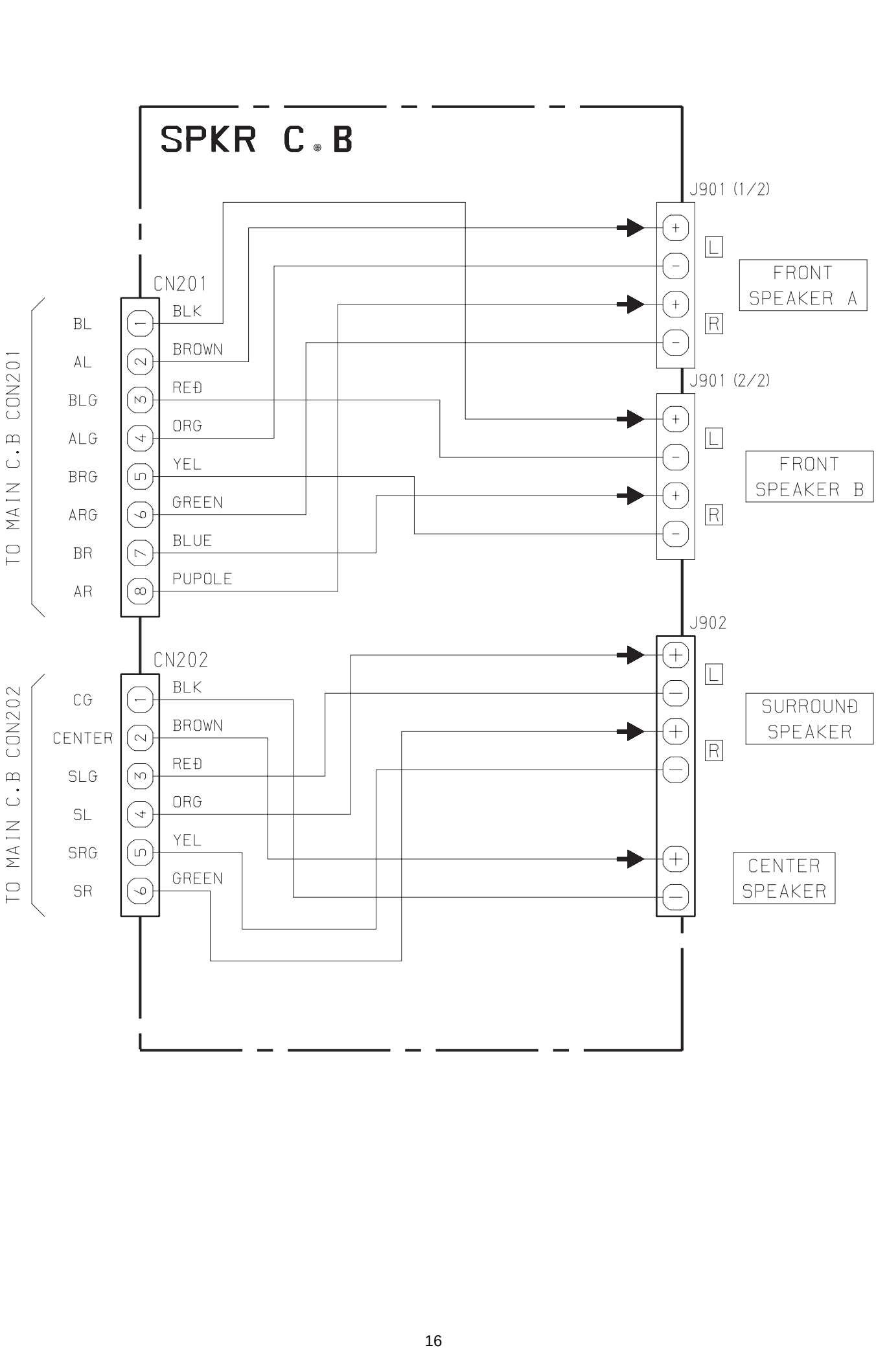




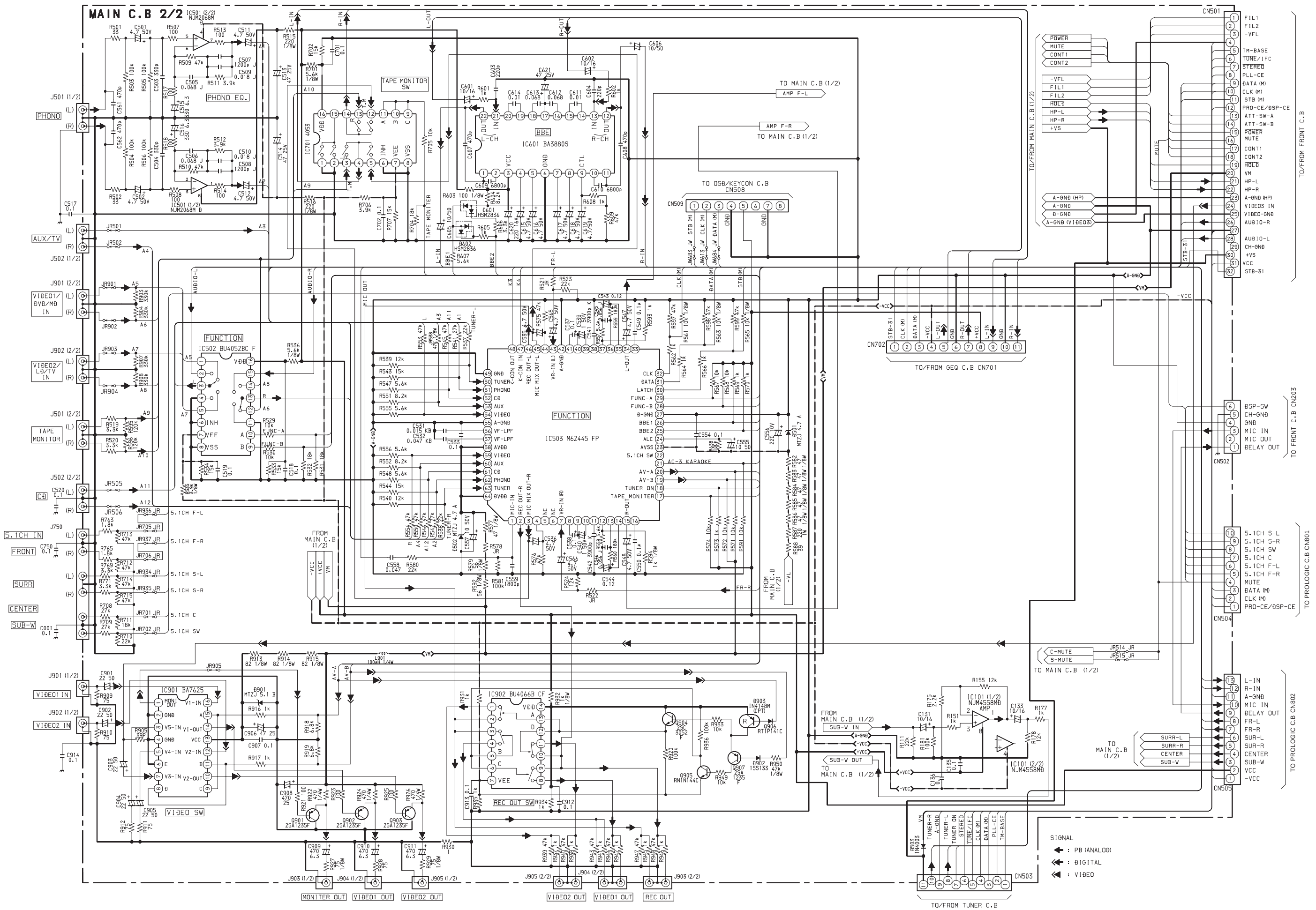
WIRING-2 (SPKR)



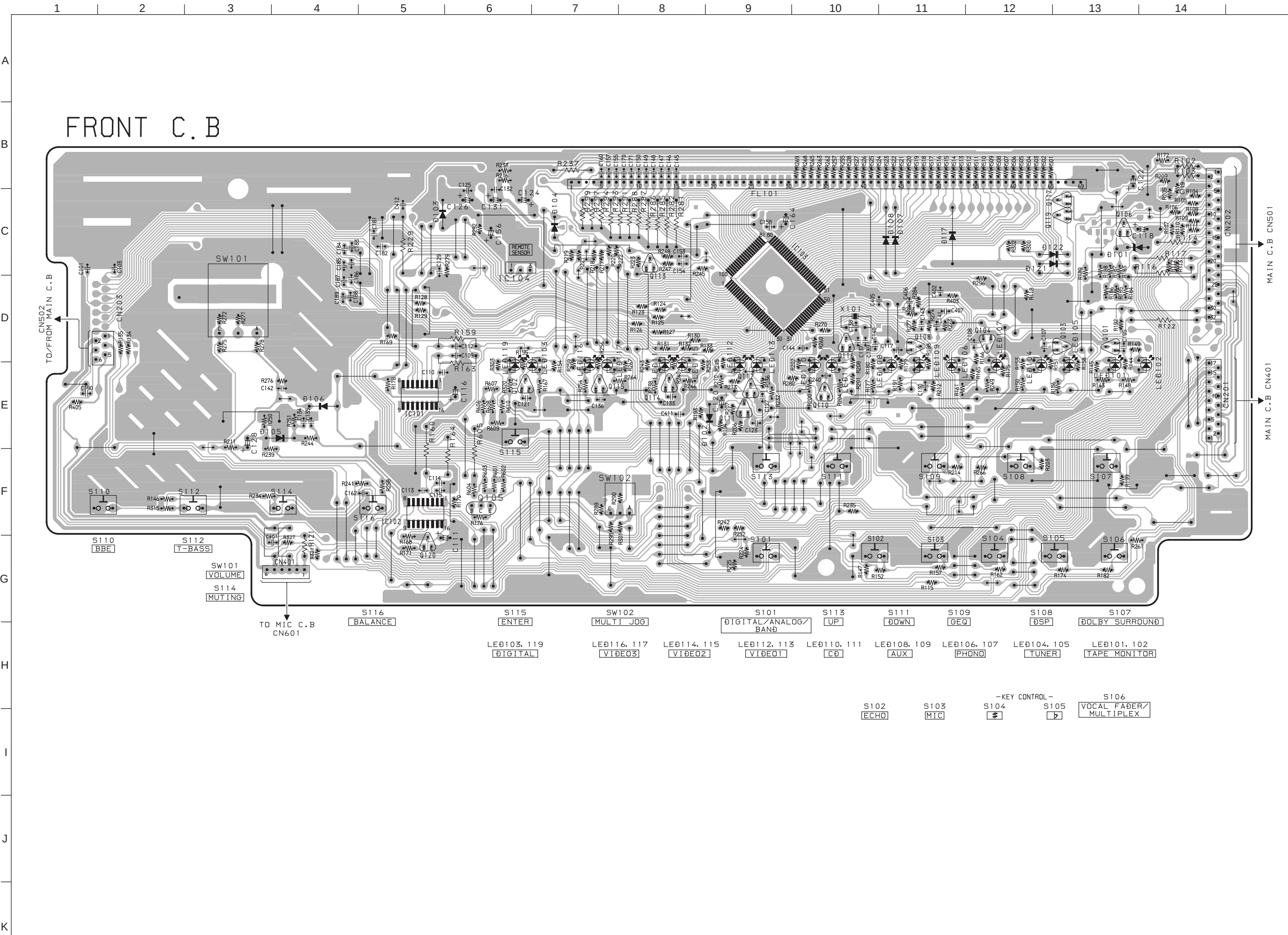
SCHEMATIC DIAGRAM-2 (SPKR)



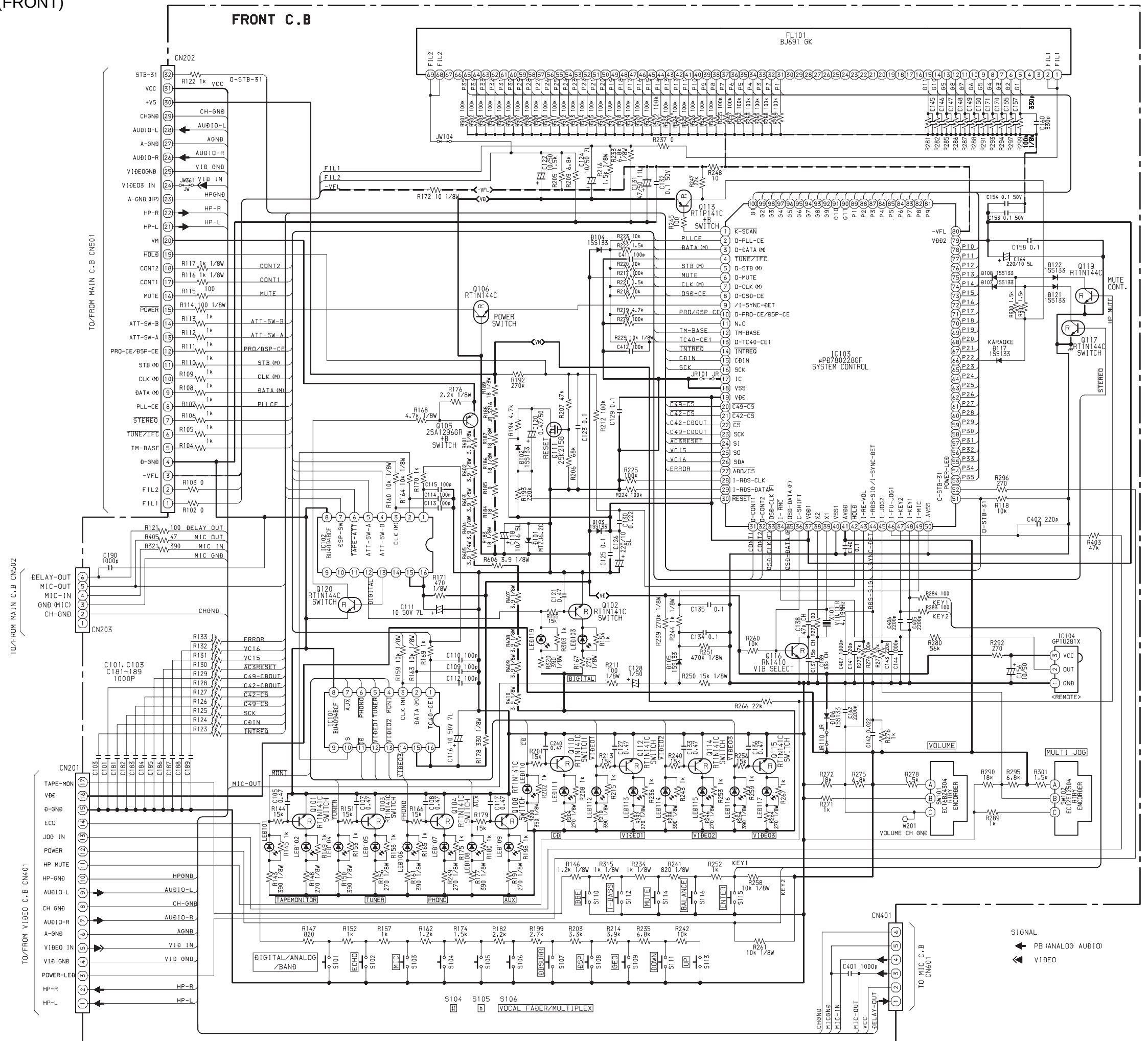
SCHEMATIC DIAGRAM-3 (MAIN 2/2)

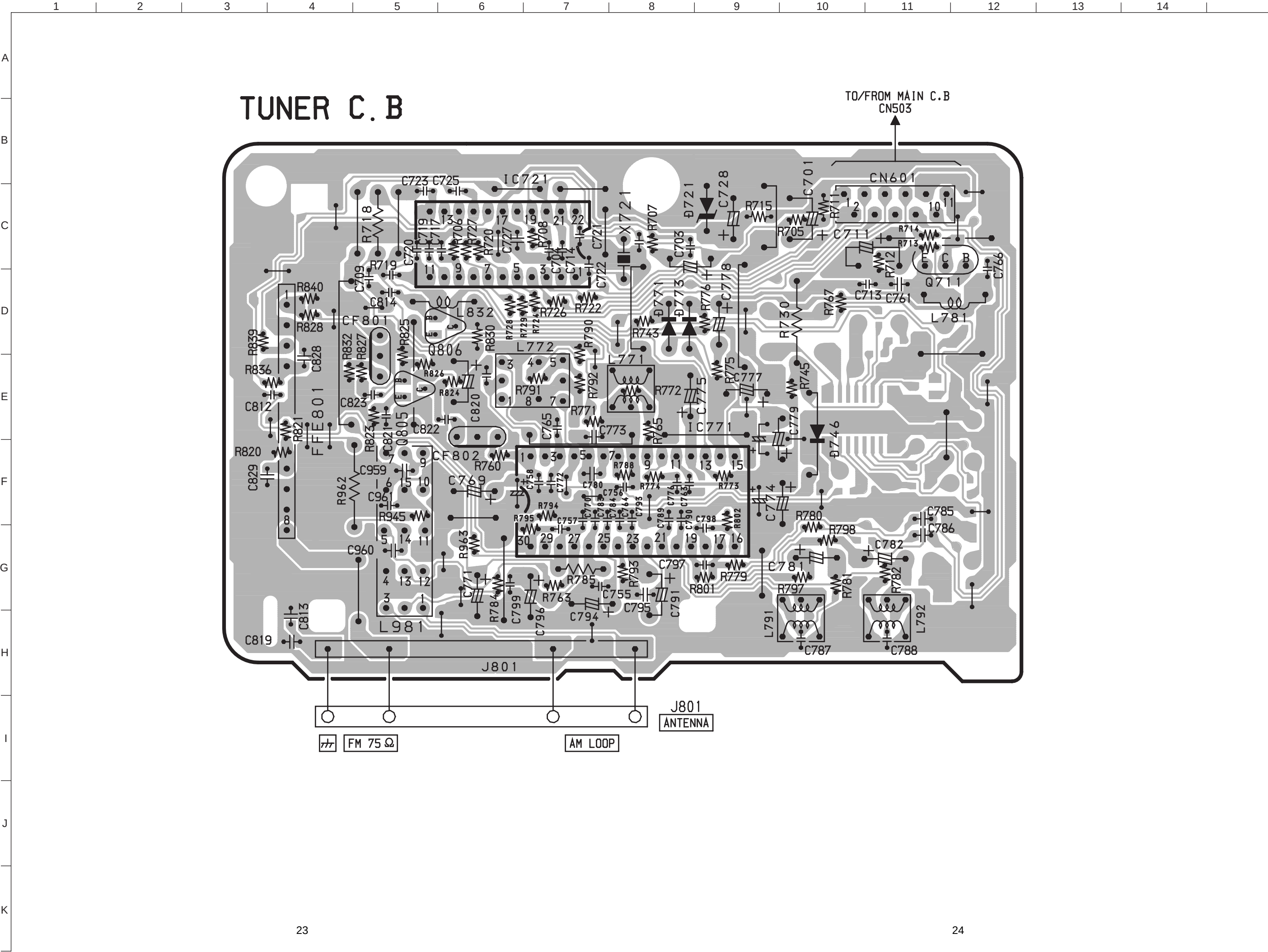


WIRING-3 (FRONT)

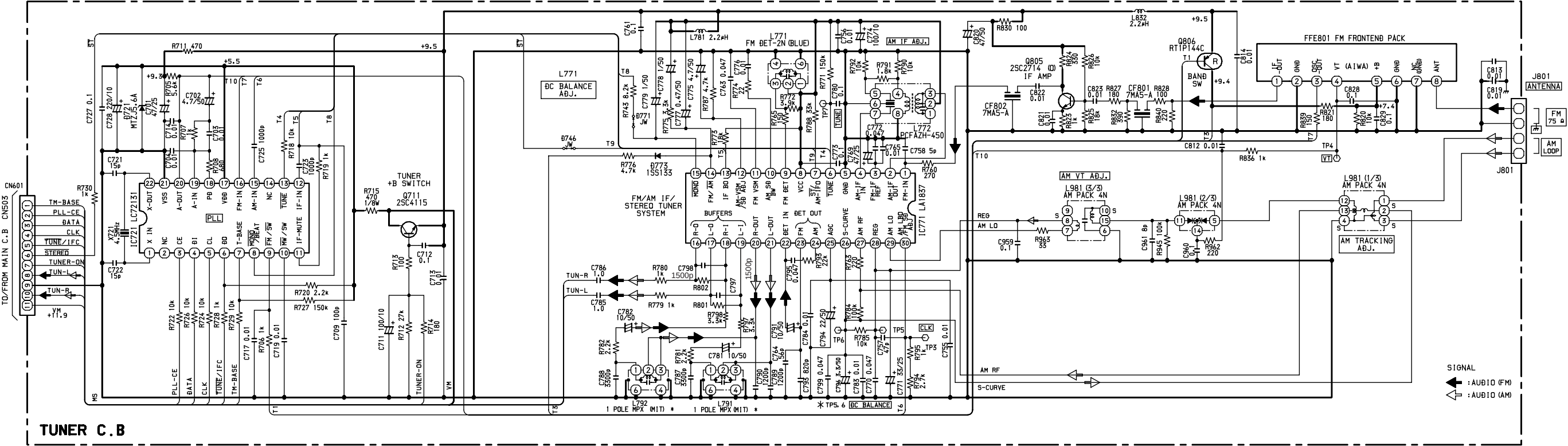


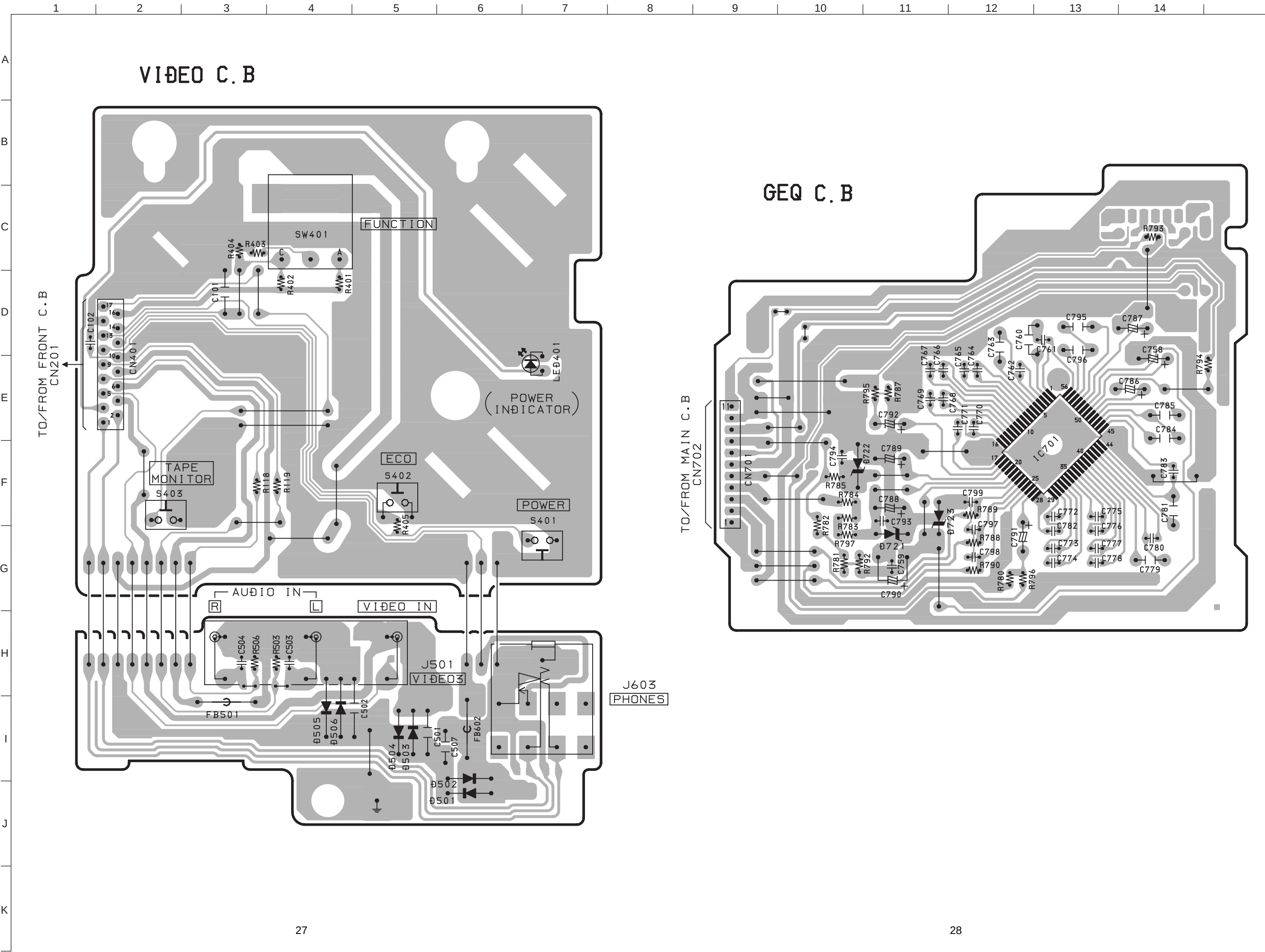
SCHEMATIC DIAGRAM-4 (FRONT)

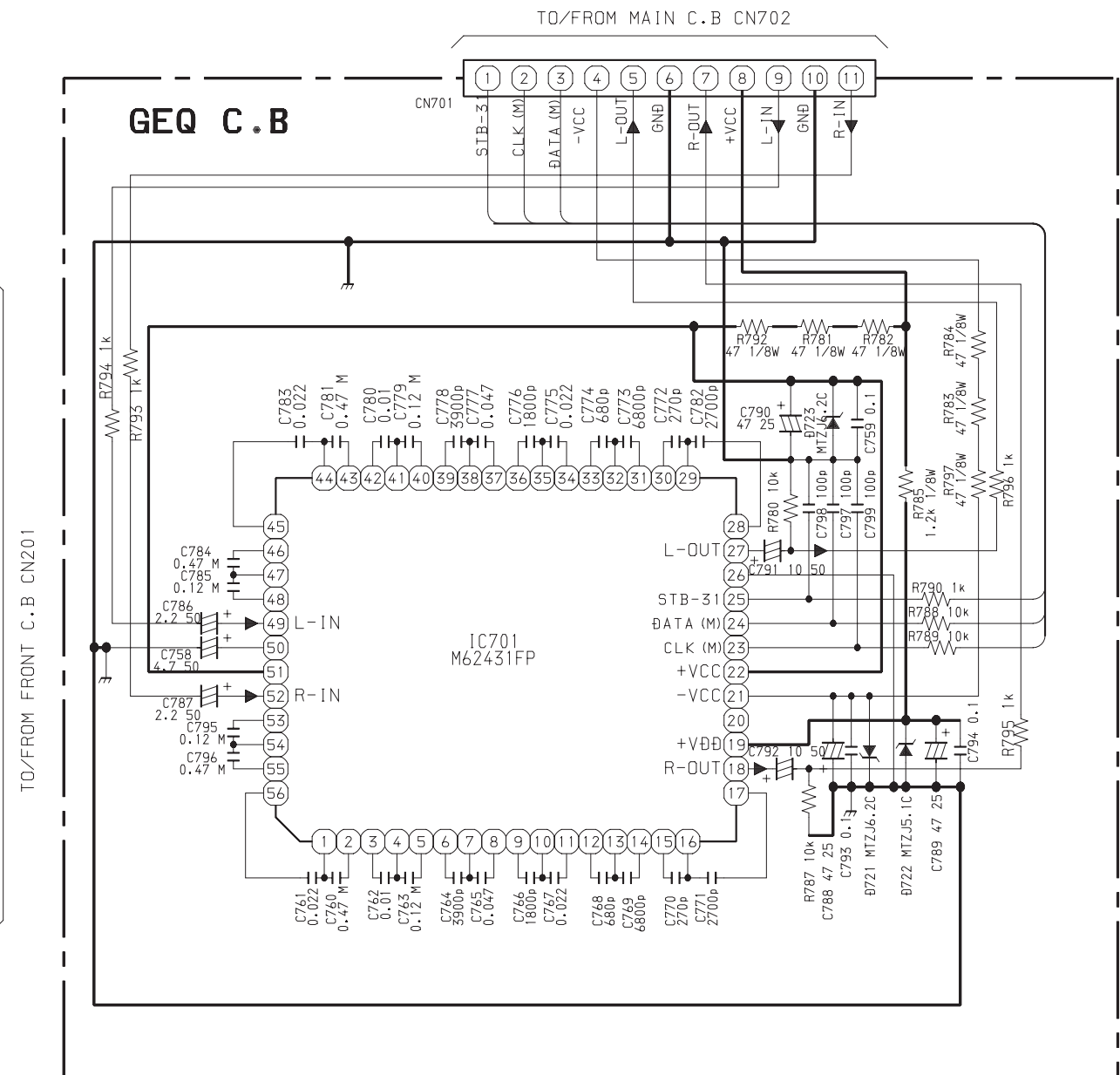
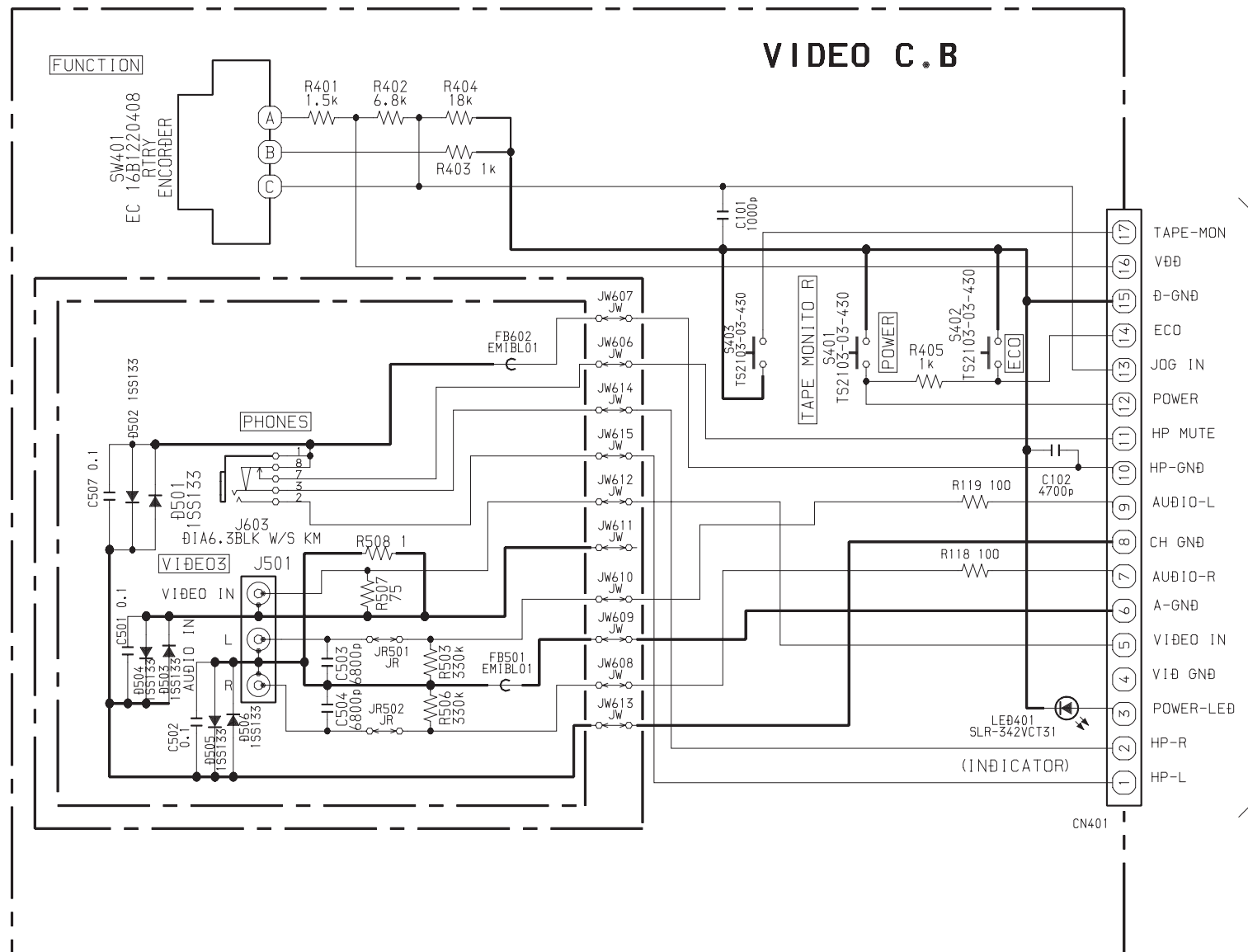


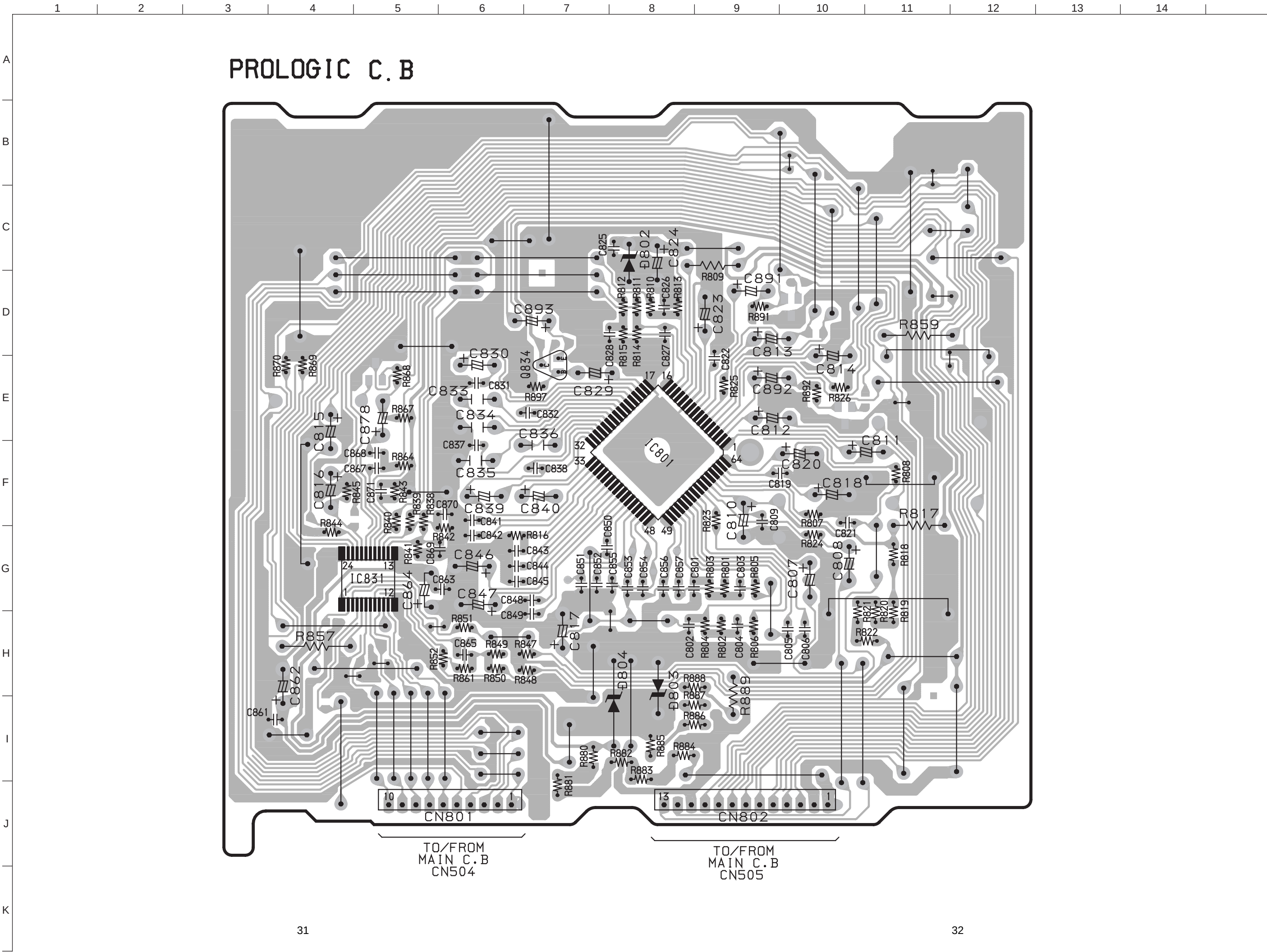


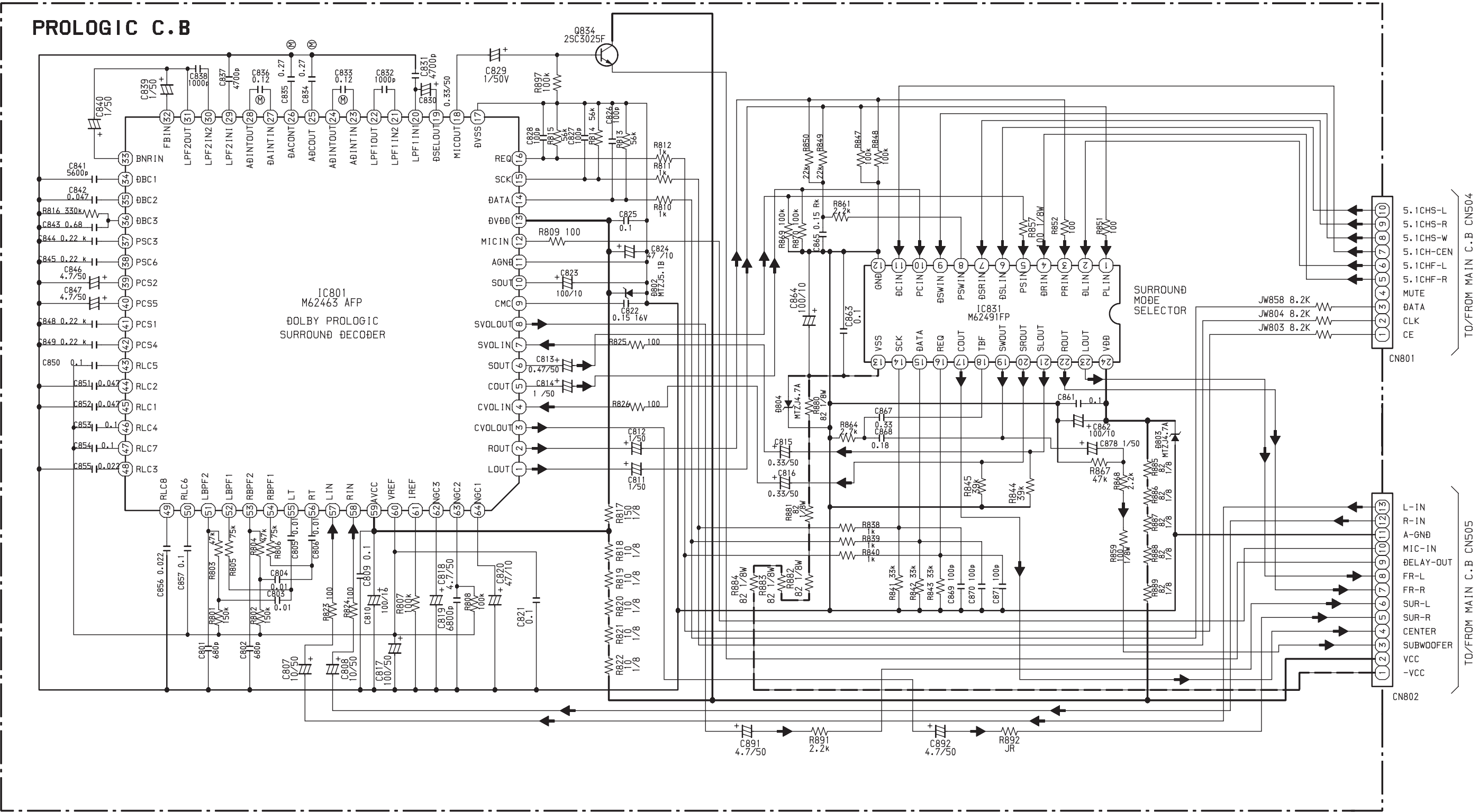
SCHEMATIC DIAGRAM-5 (TUNER)







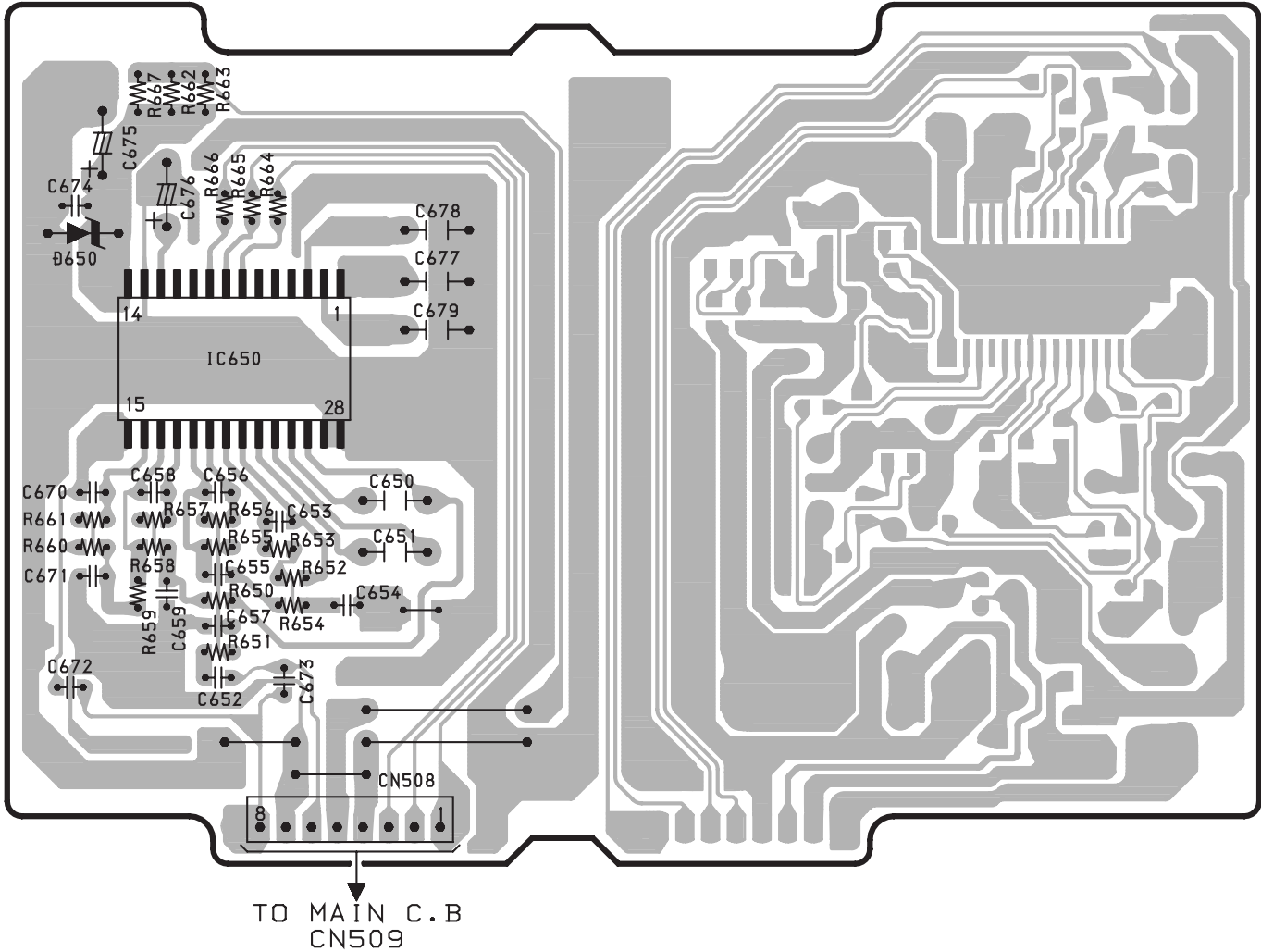




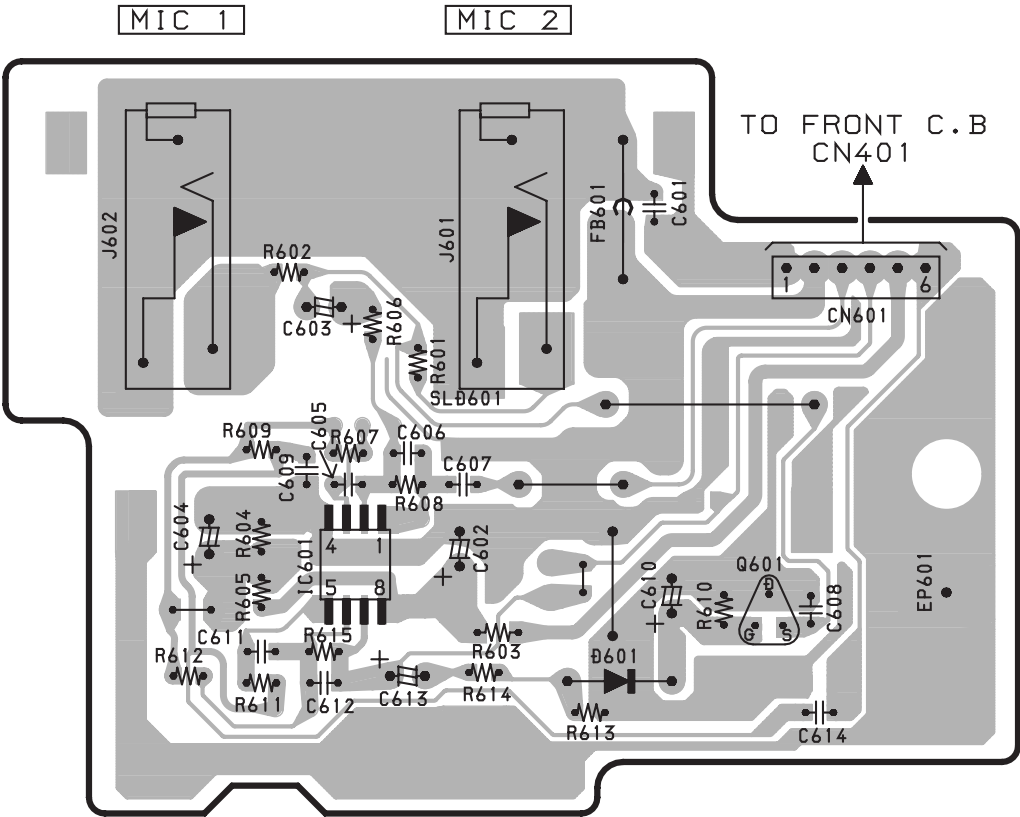
1 2 3 4 5 6 7 8 9 10 11 12 13 14

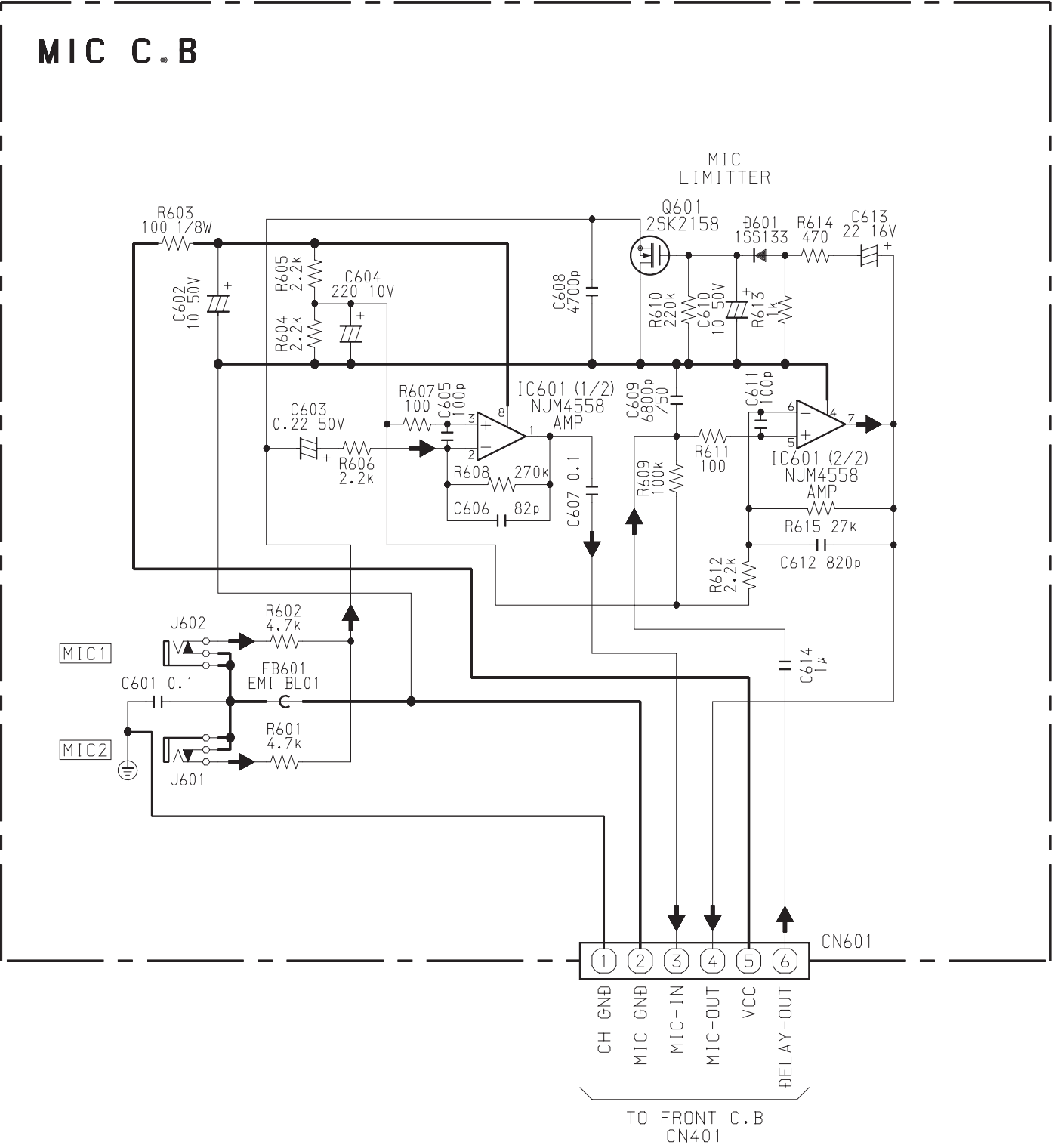
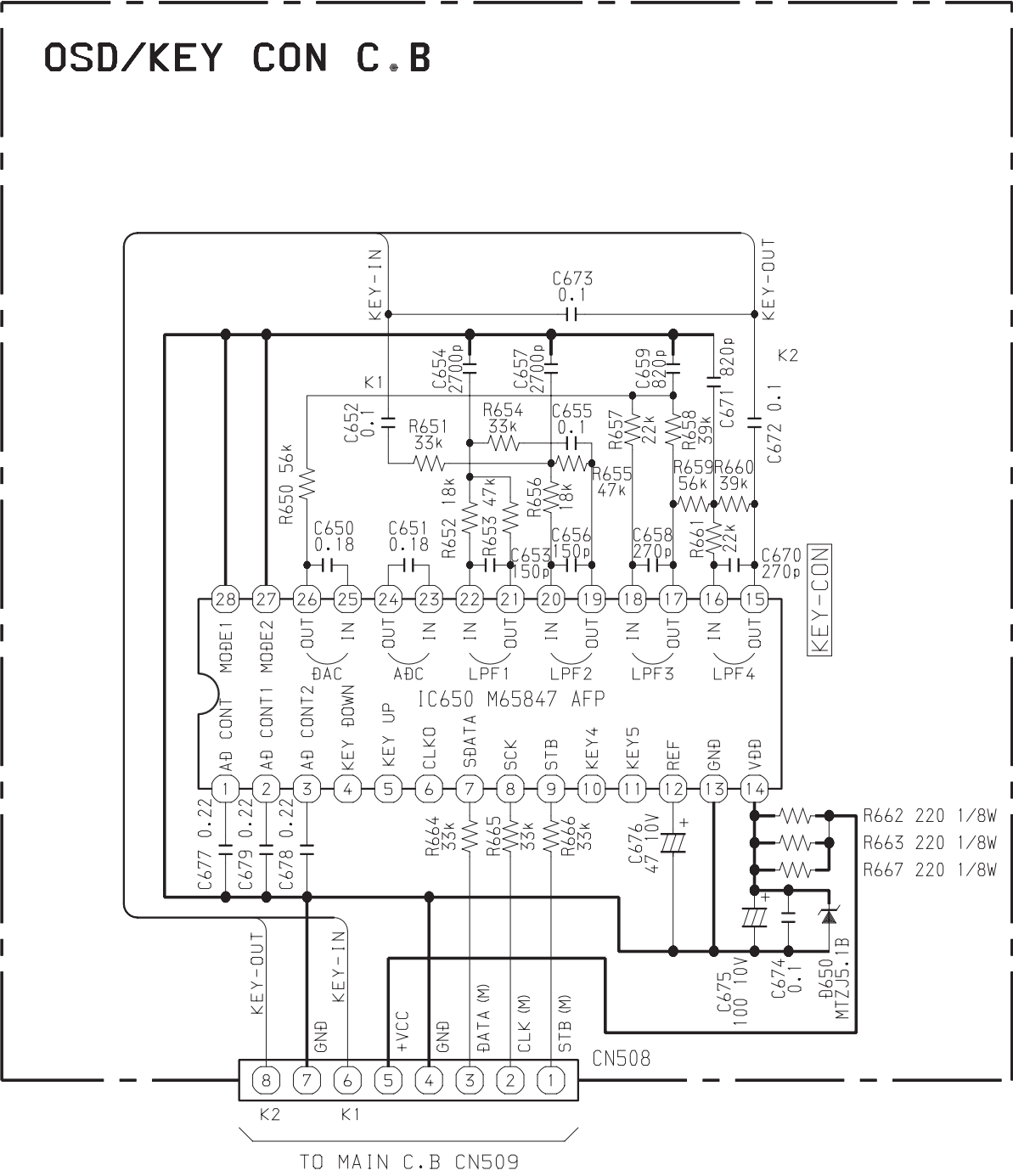
A
B
C
D
E
F
G
H
I
J
K

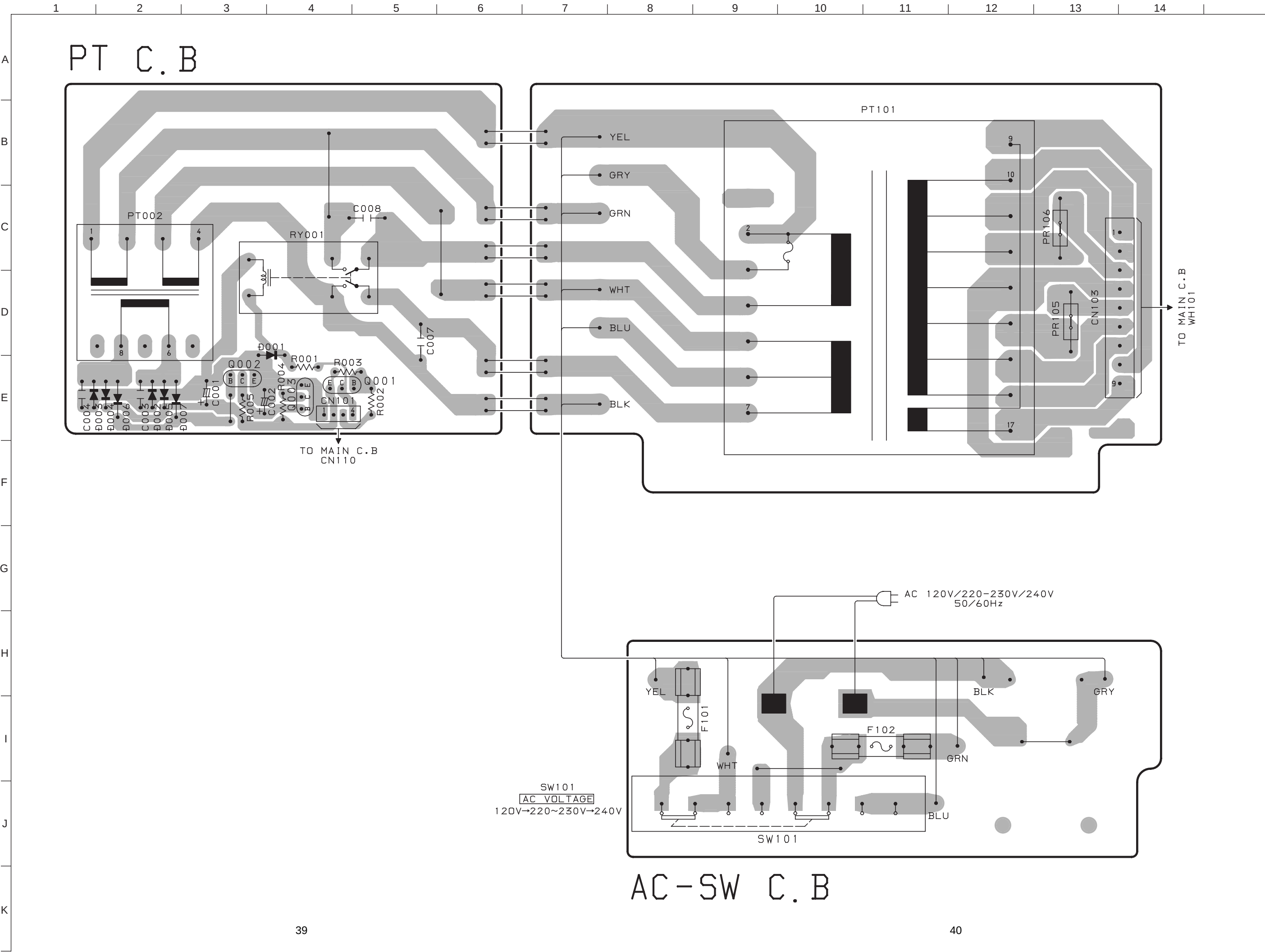
OSD/KEY CON C.B

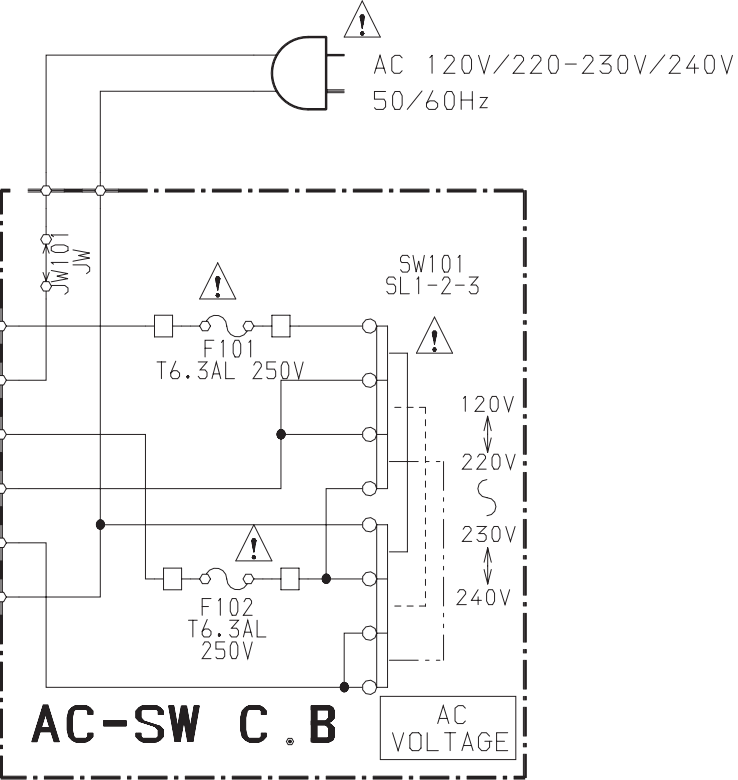
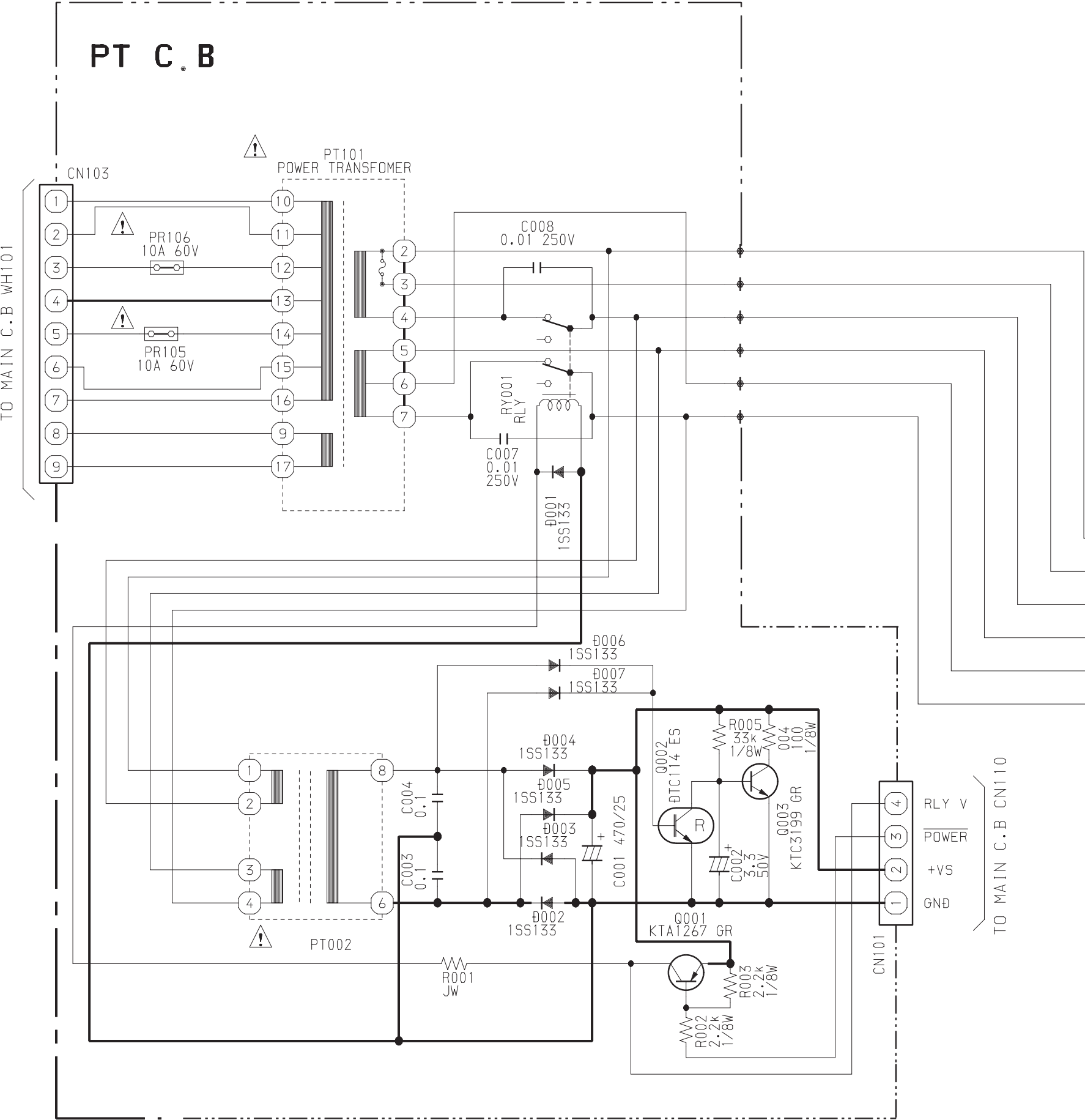


MIC C.B

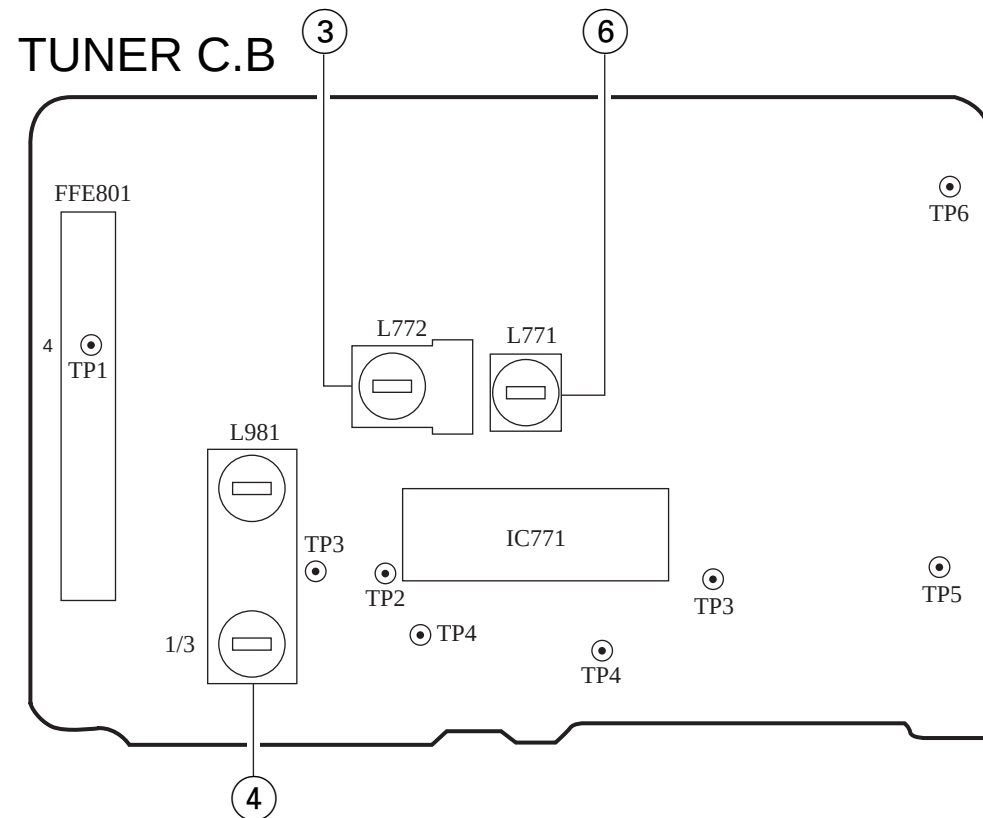








ELECTRICAL ADJUSTMENT



< TUNER SECTION >

1. Clock Frequency Check
Settings: • Test point: TP2 (CLK IC770 pin30)
Method: Set to AM 1602kHz and check that the test point becomes 2052kHz±45Hz.
2. AM VT Check
Settings: • Test point: TP1 (VT)
Method: Set to AM 1710kHz and check that the test point is less than 8.5V.
Then set to AM 530kHz and check that the test point is more than 0.6V.
3. AM IF Adjustment
Settings: • Test point: TP5, TP6
L772 450kHz
4. AM Tracking Adjustment
Settings: • Test point: TP5, TP6
• Adjustment location: L981 (1/3)
Method: Set to AM 999kHz and adjust L981 so that the test point becomes maximum.
5. FM VT Check
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. DC Balance/Mono Distortion Adjustment
Settings: • Test point: TP3, TP4
• Adjustment location: L771
• Input level: 60dB
Method: Set to FM 98.0MHz and adjust L771 so that the voltage between TP3 and TP4 becomes 0V±0.04V.
Next, check that the distortion is less than 1.3%.

PRACTICAL SERVICE FIGURE

< TUNER SECTION >

<FM SECTION>

Signal to noise ratio:

Distortion:

(Input: 60dB)

Stereo separation:

Intermediate frequency:

<AM SECTION>

Sensitivity:

Signal to noise ratio:

(Input: 74dB)

Distortion:

Intermediate frequency:

More than 62dB
(at 98.0MHz)

Less than 2.0%

(at 98.0MHz)

More than 22dB

(at 98.0MHz)

10.7MHz

Less than 60dB (at 600kHz)

Less than 58dB

(at 1000/1400kHz)

More than 36dB

(at 1000kHz)

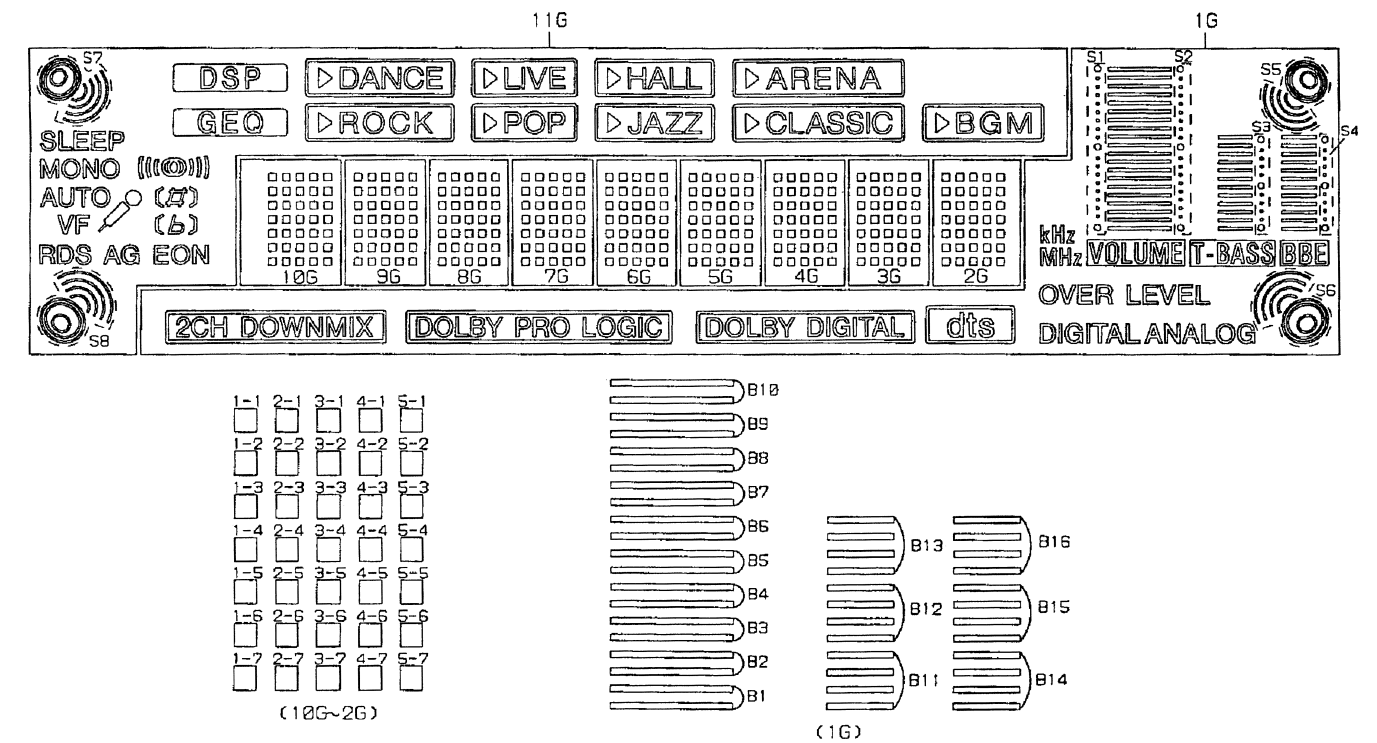
Less than 1.5%

(at 1000kHz)

450kHz

FL (BJ691GK) GRID ASSIGNMENT/ANODE CONNECTION

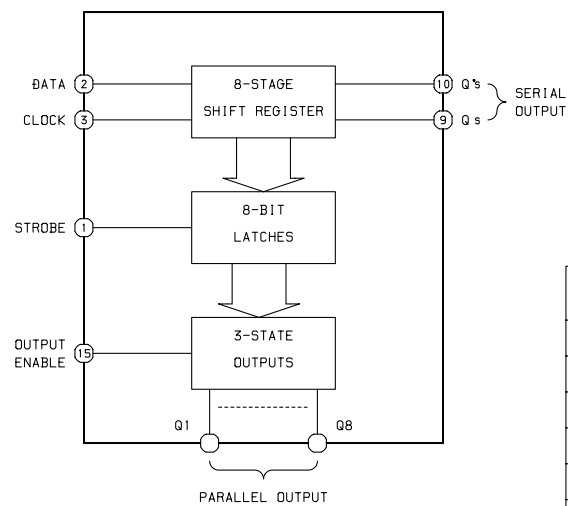
GRID ASSIGNMENT



ANODE CONNECTION

[illegible]

IC BLOCK DIAGRAM
IC, BU4094BCF

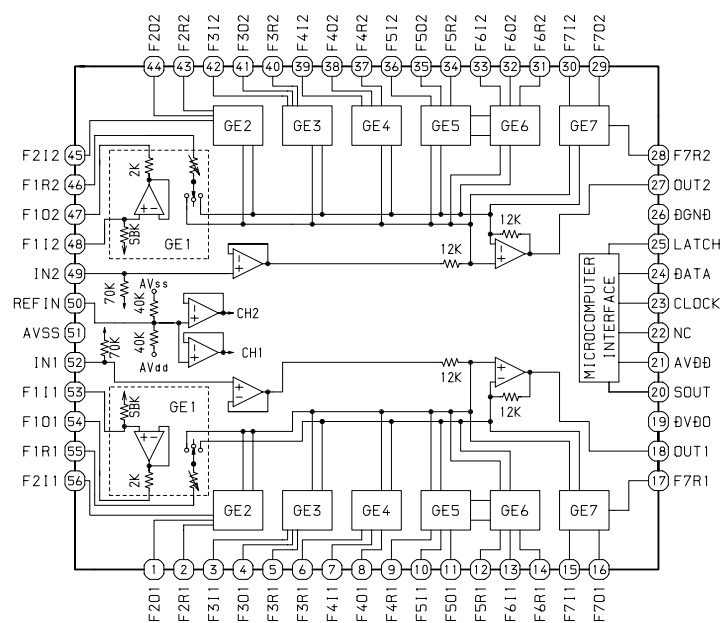


TRUTH TABLE

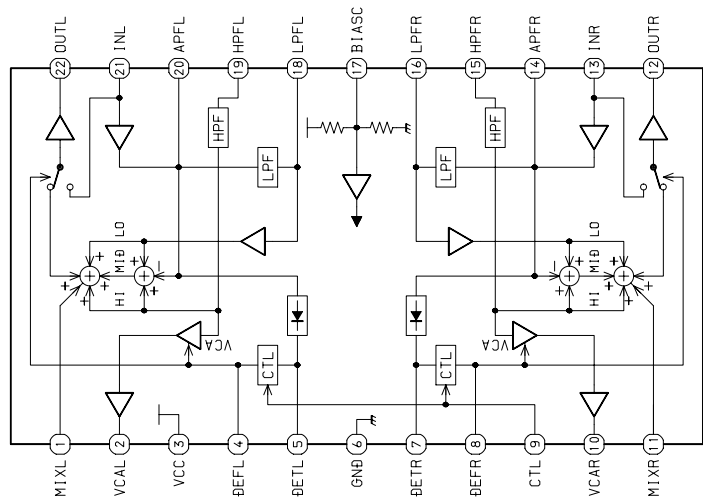
CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUTS		SERIAL OUTPUTS	
				Q1	Qn	Qs	Q's
	L	X	X	Z	Z	Q7	No Chg.
	L	X	X	Z	Z	No Chg.	Qs
	H	L	X	No Chg.	No Chg.	Q7	No Chg.
	H	H	L	L	Qn-1	Q7	No Chg.
	H	H	H	H	Qn-1	Q7	No Chg.
	H	X	X	No Chg.	No Chg.	No Chg.	Qs

Z=High Impedance
X=Don't Care

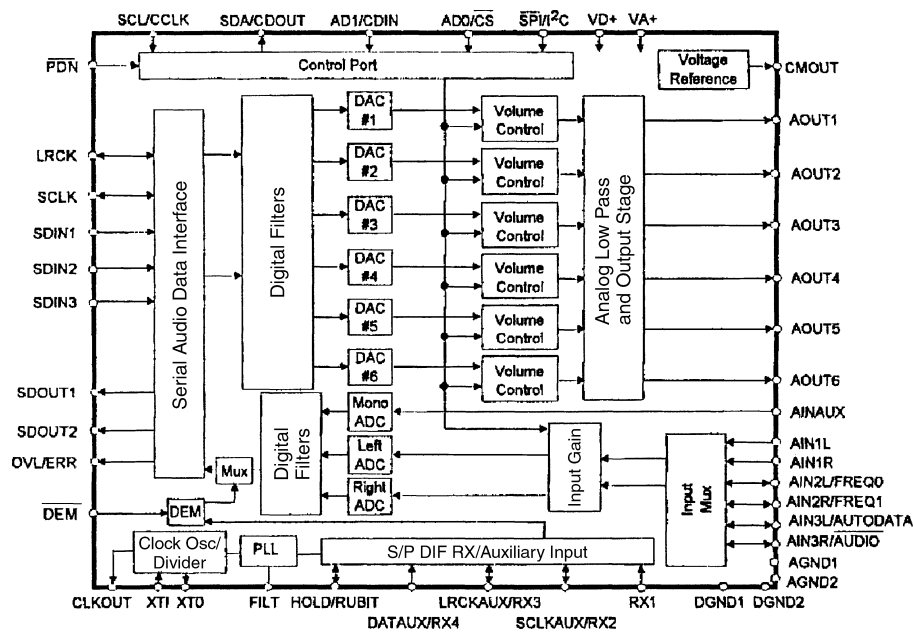
IC, M62431FP



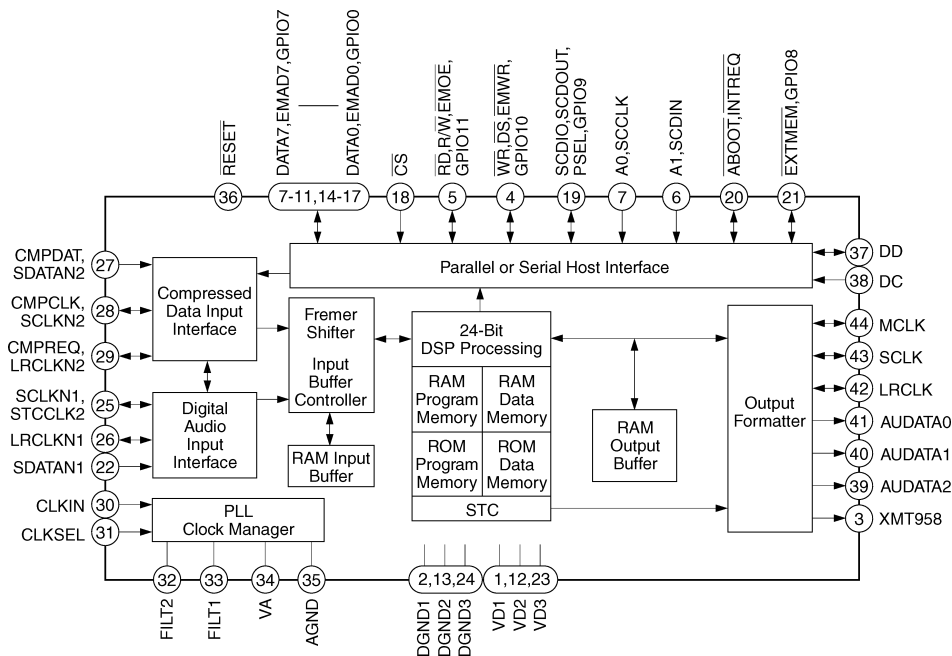
IC, BA3880S



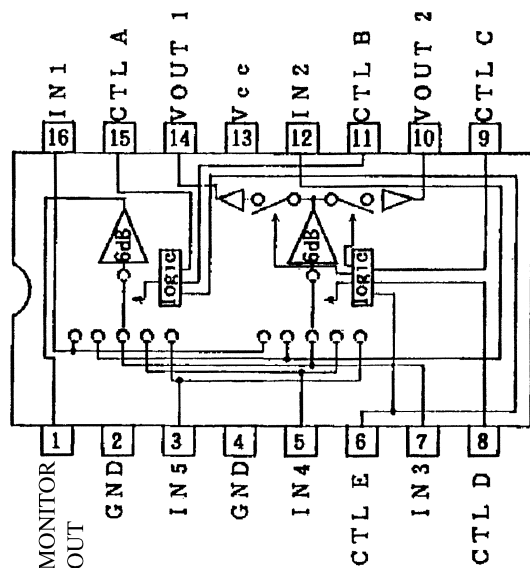
IC, CS4226



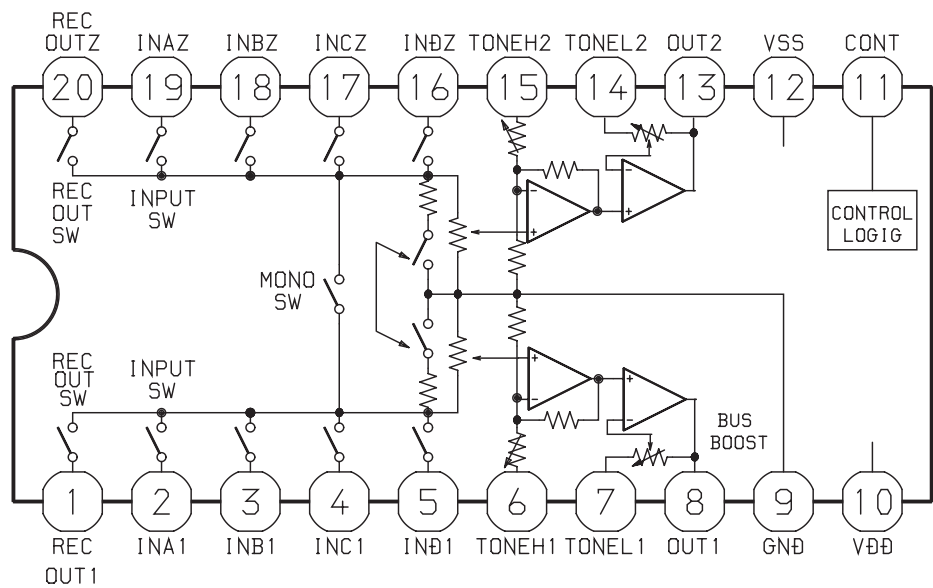
IC, CS4926



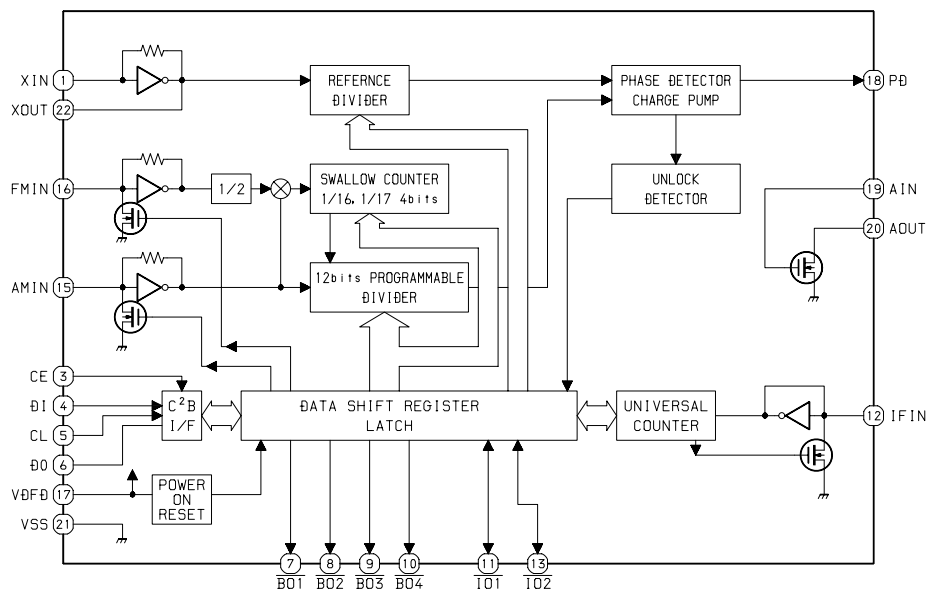
IC, BA7625



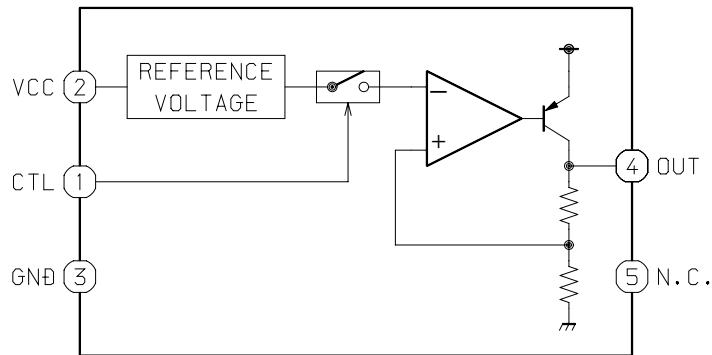
IC, M62439SP



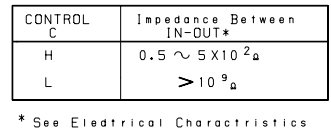
IC, LC72131D



IC, BA033ST



OUT C IN



CONTROL INPUTS			
INHIBIT	C 	B	A
L	L	L	L
L	L	L	H
L	L	H	L
L	L	H	H
L	H	L	L
L	H	L	H
L	H	H	L
L	H	H	H
H			

: DON't Care  Expect TC4052B

The block diagram illustrates the test system architecture. Key components include:

- Microcontroller:** Connected to MCLK and MCLKOUT pins.
- Micro-computer (μ-COM VF):** Receives TEST1, CLOCK, LATCH, and DATA signals.
- Main Logic:** Interfaces with 16KSRAM, LPF, and A/D blocks.
- Signal Processing:** Includes LPF (Low Pass Filter), A/D (Analog-to-Digital), and D/A (Digital-to-Analog) converters.
- Pinout:** A detailed mapping of 32 pins, including NC (Not Connected), TEST1, TEST2, LCH IN, RCH IN, LCH OUT, RCH OUT, REF, MIC OUT, VOL IN, LPF2 OUT, LPF IN2, LPF2 IN1, BAINT OUT, BAINT IN, GND, ABCONT, BACONT, VCC, DELAYSOURCE, TEST OUT, LPF1 IN1, LPF1 IN2, LPF1 OUT, ABINT IN, ABINT OUT, and GND.

The pin diagram shows the ADXL055 with 28 pins. The internal blocks include LPF1, LPF2, HPF, A/D, D/A, LOGIC, 16KSRAM, and MIX. The pins are numbered 1 through 28. The connections are as follows:

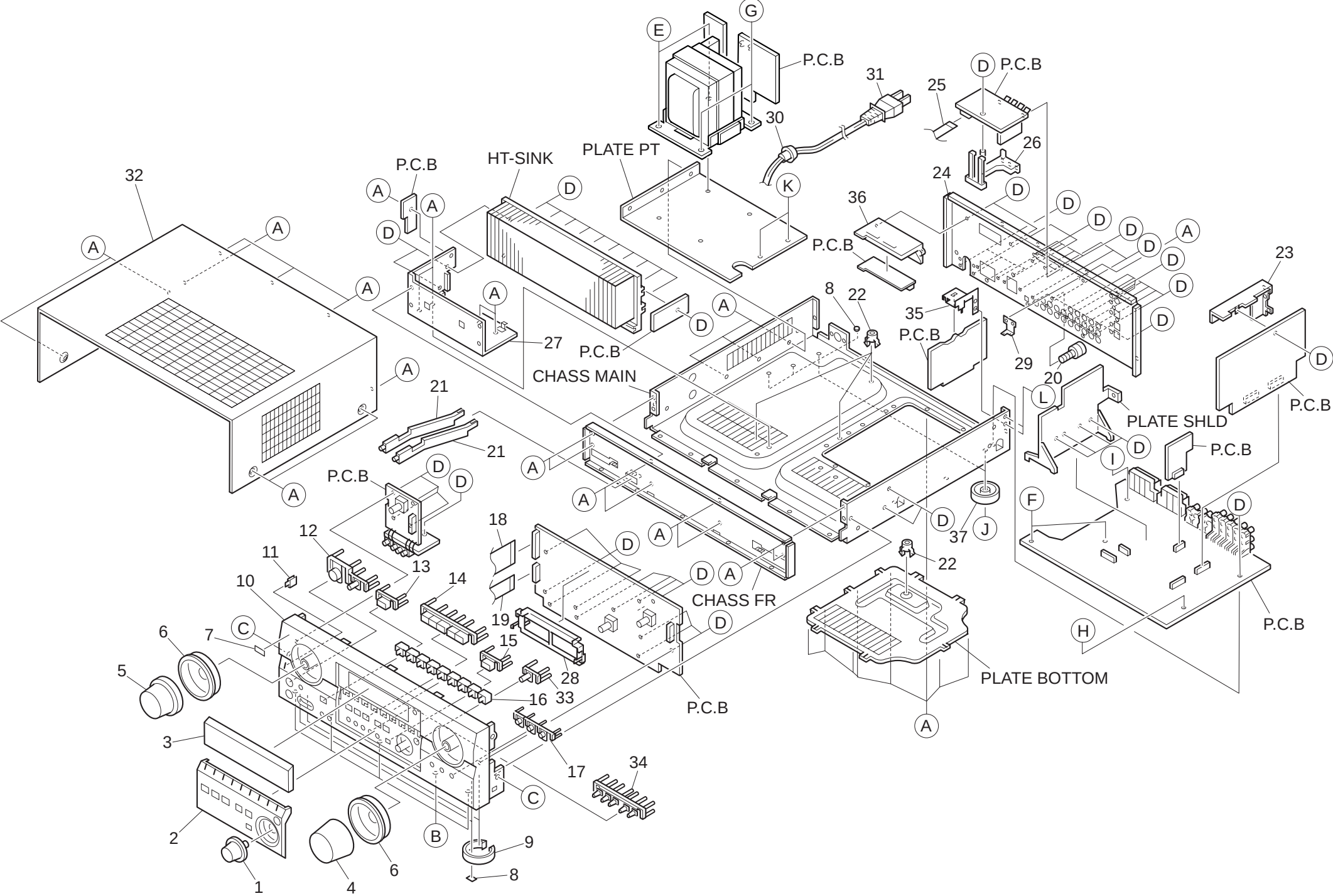
- Pin 1: ADCONT
- Pin 2: DACONT1
- Pin 3: DACONT2
- Pin 4: KEYDOWN
- Pin 5: KEYUP
- Pin 6: CLK0/KEY0
- Pin 7: SDATA/KEY1
- Pin 8: SCK/KEY2
- Pin 9: STROBE/KEY3
- Pin 10: TEST/KEY4
- Pin 11: KEY5
- Pin 12: REF
- Pin 13: GND
- Pin 14: VCC
- Pin 15: MIXOUT
- Pin 16: MIXIN
- Pin 17: LPF2OUT
- Pin 18: LPF2IN
- Pin 19: HPFOUT
- Pin 20: HPFIN
- Pin 21: LPF1OUT
- Pin 22: LPF1IN
- Pin 23: ADINTIN
- Pin 24: ADINTOUT
- Pin 25: DAINTIN
- Pin 26: DAINTOUT
- Pin 27: MODE1
- Pin 28: MODE2

IC DESCRIPTION

IC, UPD780228GF

Pin No.	Pin Name	I/O	Description
1	$\overline{\text{K-SCAN}}$	O	Scan output to diode input (Active “L”).
2	O-PLL-CE	O	Tuner PLL chip enable output.
3	O-DATA (M)	O	Sound CTRL, PLL, DOLBY PROLOGIC or DSP, AC-3 VOL, GEQ. Data output.
4	TUNE/IFC	I	Tuner $\overline{\text{TUNE/IFC}}$ detection input.
5	O-STB (M)	O	Sound CTRL, KEYCON strobe output.
6	O-MUTE	O	System mute ON/ $\overline{\text{OFF}}$ output.
7	O-CLK (M)	O	Sound CTRL, PLL, DOLBY PROLOGIC or DSP, AC-3 VOL, GEQ. Clock output.
8	O-OSD (CE)	O	OSD chip enable output.
9	/I-SYNC-DET	O	System power supply. $\overline{\text{ON/OFF}}$ output.
10	O-PRO-CE/O-DSP-CE	O	DOLBY PROLOGIC or DSP chip enable output.
11	—	—	Not used.
12	TM-BASE	I	Reference clock input for watch.
13	—	O	IC101. Strobe output from shift register (1).
14-16	—	—	Not used.
17	IC	—	GND.
18	VSS	—	GND.
19	VDD	—	Power supply pin.
20, 21	—	—	Not used.
22	$\overline{\text{CS}}$	O	DOLBY digital (AC-3) control. CS output.
23	SCK	O	DOLBY digital (AC-3) control. Clock output.
24	SI	O	DOLBY digital (AC-3) control. Data output.
25	SO	I	DOLBY digital (AC-3) control. Data input.
26	SDA	I	CODEC IC (CS4226) control. Data output.
27	$\overline{\text{ADO/CS}}$	O	CODEC IC (CS4226) control. $\overline{\text{CS}}$ output.
28	I-RDS-CLK	I	RDS clock input (external interrupt).
29	I-RDS-DATA	I	RDS data input.
30	$\overline{\text{RESET}}$	—	Reset.
31	O-CONT.1	O	Master VOL control output for SL/SR.
32	O-CONT.2	O	Master VOL control output for center/SUB-woofer (TRIM control output for center/SUB-woofer).
33	OSD-CLK	O	OSD clock output.
34	$\overline{\text{I-RMC}}$	I	Remote control input.
35	OSD-DATA	O	OSD data output.
36	C-SHIFT	O	Microprocessor clock shift output (Active “H”).
37	VDD1	—	Power supply pin.
38	X1	—	Connected to 5.76MHz oscillator.
39	X2	—	Connected to 5.76MHz oscillator.
40	VSS1	—	GND.
41	AVDD	—	Power supply pin.
42	$\overline{\text{HOLD}}$	I	System power supply voltage monitoring. AD input.
43	I-RE-VOL	I	Rotary encoder (VOL). AD input.

Pin No.	Pin Name	I/O	Description
44	I-SYNC-DET/I-RDS-SIG	I	OSD sync. AD input. RDS tuning signal level. AD input.
45	I-JOG2	I	Rotary encoder (JOG2). AD input.
46	I-FU-JOG1	I	Function selector rotary encoder (JOG1). AD input.
47, 48	I-KEY2, I-KEY1	I	Key 2, 1. AD input.
49	I-MIC	I	Microphone signal level detector. AD input.
50	AVSS	—	ADND.
51	O-STB-31	O	GEQ IC chip enable output.
52	POWER-LED	O	Power LED ON/ $\overline{\text{OFF}}$ output (Active “H”).
53-64	P35-P24	O	FL segment output (P35-P24).
65	P23/I-AM10K	O	FL segment output (P23)/supporting AM step initialization 10 kHz.
66, 67	P22/I-VF.KC.EC	I/O	FL segment output (P22, P21)/supporting VF, key control, ECHO. Diode input.
68	P20/I-AC3	I/O	FL segment output (P20)/supporting AC-3. Diode input.
69-73	P19-O-P15	O	FL segment output (P19-P15).
74	P14/ $\overline{\text{I-STEREO}}$	I/O	FL segment output (P14). Turner/stereo detection input (stereo at “L”).
75	P13/ $\overline{\text{I-HPMUTE}}$	I/O	FL segment output (P13). Headphones insertion detection input (HP insertion at “L”).
76-78	P12-P10	O	FL segment output (P12-P10).
79	VDD2	—	Power supply pin.
80	-VFL	—	– Voltage.
81-89	P9-P1	O	FL segment output (P9-P1).
90-100	G11-G1	O	FL grid output (G11-G1).



MECHANICAL PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-AR1-013-010		KNOB,RTRY JOG	26	88-AR1-203-010		HLDR,TU
2	8Z-AR3-013-010		PANEL,FR HR	27	8Z-AR1-205-010		HLDR,HT-SINK
3	8Z-AR3-005-010		WINDOW,DISPLAY 5.1CH	28	88-NF6-205-010		GUIDE,FL 40-150- 9
4	8Z-AR1-011-010		KNOB,RTRY VOL	29	8Z-AR1-210-010		HLDR,PT PWB
5	8Z-AR1-012-010		KNOB,RTRY FUN	30	87-085-185-010		BUSHING, AC CORD (E)
6	8Z-AR1-017-010		RING,VOL	31	87-A80-083-010		AC CORD,HC BLK
7	82-NE6-067-010		BADGE,AIWA 30N	32	8Z-AR1-003-010		CABI,STEEL
8	8Z-NB8-240-010		COVER, PL	33	8Z-AR1-007-010		KEY,ENTER
9	8Z-AR1-020-110		RING,FOOT SIL	34	8Z-AR1-009-010		KEY,MIC
10	8Z-AR3-008-010		CABI,FR H	35	88-AR2-205-110		HLDR,PWB OSD
11	8Z-AR1-016-010		REFLECTOR,ECO	36	88-AR1-211-110		HLDR,AC SW
12	8Z-AR1-004-010		KEY,POWER	37	8Z-AR1-021-110		FOOT,REAR
13	8Z-AR1-019-010		KEY,MONITOR	A	87-067-584-010		TAPPING SCREW, BVT2+3-6
14	8Z-AR1-005-010		KEY,GEQ	B	87-067-761-010		TAPPING SCREW, BVT2+3-10
15	8Z-AR1-006-010		KEY,DIGITAL	C	87-591-095-410		TAPPING SCREW, QIT+3-8 (GLD)
16	8Z-AR1-015-010		REFLECTOR,FUN	D	87-067-703-010		TAPPING SCREW, BVT2+3-10
17	8Z-AR1-018-010		KEY,BBE	E	87-078-191-010		S-SCREW,IT+4-10
18	8Z-AR1-603-010		FF-CABLE, 32P 1.25 400MM	F	87-067-581-010		TAPPING SCREW, BVT2+3-15
19	88-917-101-210		FF-CABLE, 17P 1.25	G	87-067-975-010		S-SCREW,IT+4-8
20	87-033-209-010		TERMINAL, EARTH	H	87-067-633-010		TAPPING SCREW, BVT2+3-8
21	8Z-AR1-010-010		BTN,SP	I	87-067-632-010		TAPPING SCREW, BVT2+3-15
22	88-AR1-218-010		HLDR,PWB H8.9	J	87-067-689-010		TAPPING SCREW, BVTT+3-8
23	8Z-AR1-219-010		HLDR,PWB PRO	K	87-067-585-010		TAPPING SCREW, BVTT+4-6
24	8Z-AR3-004-010		PANEL,REAR HCBNM	L	87-721-095-410		QT 2+3-8 W/O SLOT
25	88-911-161-110		FF-CABLE,11P 1.25				

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		



サービス技術ニュース	
番号	連絡内容
Gー ー	
Gー ー	
Gー ー	

アイワ株式会社 〒110 東京都台東区池之端1-2-11 ☎03（3827）3111（代表）
AIWA CO.,LTD. 2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110, JAPAN TEL:03 (3827) 3111