

SERVICE MANUAL

STEREO AV RECEIVER

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: 150 W + 150 W (8 ohms, T.H.D. 1 %, 1 kHz) Reference: 190 W + 190 W (8 ohms, T.H.D. 10 %, 1 kHz) [Dolby Digital Surround or Dolby Pro Logic Mode] Front Rated: 105 W + 105 W (8 ohms, T.H.D. 1 %, 1 kHz) Reference: 120 W + 120 W (8 ohms, T.H.D. 10 %, 1 kHz) Rear (Surround) Rated: 105 W + 105 W (8 ohms, T.H.D. 1 %, 1 kHz) Reference: 120 W + 120 W (8 ohms, T.H.D. 10 %, 1 kHz) Center Rated: 105 W (8 ohms, T.H.D. 1 %, 1 kHz) Reference: 120 W (8 ohms, T.H.D. 10 %, 1 kHz) 0.15 % (85 W, 1 kHz, 8 ohms, Front)
Total harmonic distortion	

Inputs

AUDIO IN
PHONO: 2.5 mV, adjustable (47 kohms)
CD, VIDEO 1/DVD/MD, VIDEO 2/LD/TV, VIDEO 3: 320 mV, adjustable (47 kohms)
TAPE MONITOR: 350 mV, adjustable (47 kohms)
AUX: 250 mV, adjustable (47 kohms)
DIGITAL IN
COAXIAL (VIDEO 2):
OPTICAL (VIDEO 1):
OPTICAL (VIDEO 3):
accept linear PCM (32 kHz, 44.1 kHz and 48 kHz) signals and bit stream of Dolby Digital Surround
VIDEO IN: 1 Vp-p (75 ohms)

Outputs

AUDIO OUT (REC OUT): 300 mV (1 kohm)
VIDEO OUT (MONITOR): 1 Vp-p (75 ohms)
SUPER WOOFER: 5.0 V
FRONT SPEAKERS IMP: 8 Ω /4 Ω selectable (front speakers A and B): with the SPEAKER IMPEDANCE SELECTOR set to 4 Ω , accepts speakers of 4 ohms. with the SPEAKER IMPEDANCE SELECTOR set to 8 Ω , 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 /4 Ω selectable with the SPEAKER IMPEDANCE SELECTOR set to 4 Ω , accepts speaker of 4 ohms. with the SPEAKER IMPEDANCE SELECTOR set to 8 Ω , accepts 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	290 W
Dimensions (W $\times$ H $\times$ D)	430 $\times$ 155 $\times$ 385 mm
Weight	12 kg

- Design and specifications are subject to change without notice.
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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	8Z-AR2-901-010	IB,H(EC-K)M	
2	87-006-225-010	AM LOOP ANT NC2	
3	87-043-115-010	ANT,FEEDER FM	
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-A40-002-080		ZENER,MTZJ5.1C
					87-A40-115-060		DIODE,RS603M
					87-A40-469-080		C-DIODE,HSM2838CTR
					87-A40-004-080		ZENER,MTZJ16A
					87-A40-335-080		ZENER,MTZJ11C T-72
					87-A40-224-010		DIODE,GBU8D
					87-070-274-080		DIODE,1N4003 SEM
					87-A40-435-080		ZENER,MTZJ30D
					87-A40-347-080		ZENER,MTZJ2.2B
					87-A40-646-010		DIODE,FMB-G16L
					87-A40-488-080		DIODE,1SS244
					87-017-931-080		ZENER,MTZJ5.6B
					87-A40-348-080		ZENER,MTZJ3.3A
					87-A40-438-080		ZENER,MTZJ4.7A
					87-A40-234-080		ZENER,MTZJ5.6A
				MAIN C.B			
				C101	87-010-235-080		CAP,E 470-16 SME
				C102	87-010-235-080		CAP,E 470-16 SME
				C103	87-010-384-080		CAP, ELECT 100-25V
				C104	87-016-128-080		CAP,E 22-25 105
				C105	87-010-247-080		CAP, ELECT 100-50V
				C106	87-010-384-080		CAP, ELECT 100-25V
				C108	87-012-140-080		CAP 470P
				C109	87-012-368-080		C-CAP,S 0.1-50 F
				C110	87-012-368-080		C-CAP,S 0.1-50 F
				C111	87-012-368-080		C-CAP,S 0.1-50 F
				C112	87-012-368-080		C-CAP,S 0.1-50 F
				C113	87-016-658-090		CAP,E 4700-35 SMG
				C114	87-016-658-090		CAP,E 4700-35 SMG
				C115	87-012-368-080		C-CAP,S 0.1-50 F
				C116	87-012-368-080		C-CAP,S 0.1-50 F
				C117	87-012-368-080		C-CAP,S 0.1-50 F
				C118	87-012-368-080		C-CAP,S 0.1-50 F
				C119	87-A11-316-090		CAP,E 8200-85
				C120	87-A11-316-090		CAP,E 8200-85
				C121	87-010-260-080		CAP, ELECT 47-25V
				C122	87-010-403-080		CAP, ELECT 3.3-50V
				C123	87-010-384-080		CAP, ELECT 100-25V
				C124	87-010-384-080		CAP, ELECT 100-25V
				C125	87-A10-417-080		CAP,E 47-63 M SME
				C126	87-010-263-080		CAP, ELECT 100-10V
				C127	87-010-197-080		CAP, CHIP 0.01 DM
				C131	87-010-544-080		CAP, ELECT 0.1-50V
				C133	87-010-404-080		CAP, ELECT 4.7-50V
				C135	87-012-368-080		C-CAP,S 0.1-50 F
				C136	87-012-368-080		C-CAP,S 0.1-50 F
				C143	87-A10-712-080		C-CAP,S 0.22-50 Z F
				C144	87-A10-712-080		C-CAP,S 0.22-50 Z F
				C149	87-010-154-080		CAP CHIP 10P
				C150	87-010-154-080		CAP CHIP 10P
				C153	87-010-401-080		CAP, ELECT 1-50V
				C154	87-010-401-080		CAP, ELECT 1-50V
				C155	87-010-196-080		CHIP CAPACITOR,0.1-25
				C156	87-010-196-080		CHIP CAPACITOR,0.1-25
				C157	87-010-408-080		CAP, ELECT 47-50V
				C158	87-010-248-080		CAP, ELECT 220-10V
				C159	87-010-154-080		CAP CHIP 10P
				C169	87-010-154-080		CAP CHIP 10P
				C170	87-010-154-080		CAP CHIP 10P
				C171	87-010-196-080		CHIP CAPACITOR,0.1-25
				C172	87-010-154-080		CAP CHIP 10P
DIODE				C173	87-010-405-080		CAP, ELECT 10-50V
				C174	87-010-401-080		CAP, ELECT 1-50V
				C175	87-010-196-080		CHIP CAPACITOR,0.1-25
				C203	87-010-178-080		CHIP CAP 1000P
				C204	87-010-178-080		CHIP CAP 1000P
				C205	87-010-405-080		CAP, ELECT 10-50V
				C206	87-010-405-080		CAP, ELECT 10-50V
TRANSISTOR							
IC							
DIODE							

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C208	87-016-299-080		CAP, E 10-100 SME	C411	87-010-805-080		CAP, S 1-16
C209	87-010-406-080		CAP, ELECT 22-50V	C412	87-010-402-080		CAP, ELECT 2.2-50V
C210	87-010-406-080		CAP, ELECT 22-50	C413	87-010-196-080		CHIP CAPACITOR, 0.1-25
C211	87-010-322-080		C-CAP, S 100P-50 CH	C414	87-010-178-080		CHIP CAP 1000P
C212	87-010-322-080		C-CAP, S 100P-50 CH	C416	87-016-299-080		CAP, E 10-100 SME
C215	87-A10-897-080		CAP, E 100-25 BP SME	C417	87-A10-946-080		C-CAP, S 220P-100 J CH
C216	87-A10-897-080		CAP, E 100-25 BP SME	C430	87-A10-354-080		C-CAP, S 0.047-50 K B
C217	87-A10-516-080		C-CAP, S 100P-200 J CH	C485	87-010-186-080		CAP, CHIP 4700P
C218	87-A10-516-080		C-CAP, S 100P-200 J CH	C491	87-012-368-080		C-CAP, S 0.1-50 F
C221	87-010-805-080		CAP, S 1-16	C492	87-012-368-080		C-CAP, S 0.1-50 F
C222	87-010-805-080		CAP, S 1-16	C493	87-010-190-080		S CHIP F 0.01
C223	87-010-402-080		CAP, ELECT 2.2-50V	C501	87-010-404-080		CAP, ELECT 4.7-50V
C224	87-010-402-080		CAP, ELECT 2.2-50V	C502	87-010-404-080		CAP, ELECT 4.7-50V
C225	87-010-196-080		CHIP CAPACITOR, 0.1-25	C503	87-012-157-080		C-CAP, S 330P-50 CH
C227	87-010-178-080		CHIP CAP 1000P	C504	87-012-157-080		C-CAP, S 330P-50 CH
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	87-010-405-080		CAP, ELECT 10-50V	C547	87-010-404-080		CAP, ELECT 4.7-50V
C306	87-010-405-080		CAP, ELECT 10-50V	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 22-50V	C550	87-016-081-080		C-CAP, S 0.1-16 RK
C310	87-010-406-080		CAP, ELECT 22-50V	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	87-010-183-080		C-CAP, S 2700P-50 B
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	C660	87-010-196-080		CHIP CAPACITOR, 0.1-25

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C661	87-010-196-080		CHIP CAPACITOR, 0.1-25	R332	87-A00-418-010		RES, M/F 0.15-3W J
C745	87-012-368-080		C-CAP, S 0.1-50 F	R333	87-A00-418-010		RES, M/F 0.15-3W J
C746	87-012-368-080		C-CAP, S 0.1-50 F	R334	87-A00-418-010		RES, M/F 0.15-3W J
C901	87-010-406-080		CAP, ELECT 22-50	R416	87-A00-418-010		RES, M/F 0.15-3W J
C902	87-010-406-080		CAP, ELECT 22-50	R417	87-A00-418-010		RES, M/F 0.15-3W J
C903	87-010-406-080		CAP, ELECT 22-50	R424	87-A00-418-010		RES, M/F 0.15-3W J
C904	87-010-406-080		CAP, ELECT 22-50	R590	87-A00-418-010		RES, M/F 0.15-3W J
C905	87-010-406-080		CAP, ELECT 22-50	R611	87-A00-418-010		RES, M/F 0.15-3W J
C906	87-010-260-080		CAP, ELECT 47-25V	R905	87-010-317-080		C-CAP, S 39P-50 CH
C907	87-010-196-080		CHIP CAPACITOR, 0.1-25	RY101	87-A90-454-010		RELAY, 12V DJ12D2-0(M)
C908	87-010-387-080		CAP, E 470-25 SME	RY102	87-A90-454-010		RELAY, 12V DJ12D2-0(M)
C909	87-010-371-080		CAP, ELECT 470-6.3V	S101	86-SP8-611-010		SW, SL 1-1-2
C910	87-010-371-080		CAP, ELECT 470-6.3V	S291	87-A90-174-010		SW, PUSH 2-2-2
C911	87-010-371-080		CAP, ELECT 470-6.3V	S292	87-A90-174-010		SW, PUSH 2-2-2
C912	87-010-196-080		CHIP CAPACITOR, 0.1-25	TH201	87-A91-081-080		C-THMS, 100K-K 20P
C913	87-010-196-080		CHIP CAPACITOR, 0.1-25	TH202	87-A91-081-080		C-THMS, 100K-K 20P
C914	87-010-196-080		CHIP CAPACITOR, 0.1-25	TH301	87-A91-081-080		C-THMS, 100K-K 20P
CN110	87-A60-621-010		CONN, 4P V 2MM JMT	TH302	87-A91-081-080		C-THMS, 100K-K 20P
CN110	87-009-032-010		CONNECTOR, 4P YEL	TH401	87-A91-081-080		C-THMS, 100K-K 20P
CN501	87-A60-039-010		CONN, 32P V 9604S-32C	W3	8Z-AR2-606-010		CONN ASSY, 9P VH
CN502	87-A60-054-010		CONN, 14P V 9604S-14C	WH101	87-A90-510-010		HLDR, WIRE 2.5-9P
CN503	87-A60-057-010		CONN, 11P V 9604S-11C				
CN504	87-099-572-010		CONN, 15P TUC-P15P-B1				
CN505	87-099-572-010		CONN, 15P TUC-P15P-B1				
CN509	87-099-667-010		CONN, 8P TUC-P8P-B1				
CN702	87-099-568-010		CONN, 11P TUC-P11P-B1				
CNA201	8Z-AR4-606-010		CONN ASSY, 8P VH				
CNA202	8Z-AR4-605-010		CONN ASSY, 6P VH				
J501	87-A60-947-010		JACK, PIN 4P W/R GLD				
J502	87-A60-947-010		JACK, PIN 4P W/R GLD				
J715	87-A60-244-010		JACK, PIN 1P BLK				
J901	87-A60-949-010		JACK, PIN 3P R/W/Y V GLD				
J902	87-A60-950-010		JACK, PIN 3P R/W/Y W/E GLD				
J903	87-A60-949-010		JACK, PIN 3P R/W/Y V GLD				
J904	87-A60-949-010		JACK, PIN 3P R/W/Y V GLD				
J905	87-A60-949-010		JACK, PIN 3P R/W/Y V GLD				
L291	87-003-383-010		COIL, 1UH-S				
L292	87-003-383-010		COIL, 1UH-S				
L293	87-003-383-010		COIL, 1UH-S				
L294	87-003-383-010		COIL, 1UH-S				
L391	87-003-383-010		COIL, 1UH-S				
L392	87-003-383-010		COIL, 1UH-S				
L491	87-003-383-010		COIL, 1UH-S				
L901	87-003-152-080		COIL, 100UH				
P001	86-NFZ-222-010		PIN, DIA1-5.6				
△PR101	87-026-682-080		PROTECTOR, 10A 60V491				
△PR104	87-026-682-080		PROTECTOR, 10A 60V491				
△PR107	87-026-682-080		PROTECTOR, 10A 60V491				
△PR108	87-026-682-080		PROTECTOR, 10A 60V491				
△PR201	87-026-682-080		PROTECTOR, 10A 60V491				

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C153	87-012-368-080	C-CAP,S 0.1-50 F		SW102	87-A90-950-010	SW,RTRY EC12E12504	ENCORDER
C154	87-012-368-080	C-CAP,S 0.1-50 F		X101	87-A70-075-080	VIB,CER 4.19MHZ	CRHF
C155	87-012-157-080	C-CAP,S 330P-50 CH					
C156	87-015-699-040	CAP,E 10-50 7L					
C157	87-012-157-080	C-CAP,S 330P-50 CH					
					TUNER C.B		
C158	87-012-368-080	C-CAP,S 0.1-50 F		C701	87-010-260-080	CAP, ELECT 47-25V	
C160	87-012-157-080	C-CAP,S 330P-50 CH		C702	87-010-404-080	CAP, ELECT 4.7-50V	
C162	87-010-182-080	C-CAP,S 2200P-50 B		C703	87-012-286-080	CAP, U 0.01-25	
C164	87-A10-189-040	CAP,E 220-10		C704	87-012-286-080	CAP, U 0.01-25	
C170	87-012-157-080	C-CAP,S 330P-50 CH		C711	87-010-263-080	CAP, ELECT 100-10V	
C171	87-012-157-080	C-CAP,S 330P-50 CH		C712	87-010-196-080	CHIP CAPACITOR,0.1-25	
C181	87-010-322-080	C-CAP,S 100P-50 CH		C713	87-012-286-080	CAP, U 0.01-25	
C182	87-010-322-080	C-CAP,S 100P-50 CH		C714	87-012-286-080	CAP, U 0.01-25	
C183	87-010-322-080	C-CAP,S 100P-50 CH		C717	87-012-286-080	CAP, U 0.01-25	
C184	87-010-322-080	C-CAP,S 100P-50 CH		C719	87-012-286-080	CAP, U 0.01-25	
C185	87-010-322-080	C-CAP,S 100P-50 CH		C721	87-012-176-080	CAP 15P	
C186	87-010-322-080	C-CAP,S 100P-50 CH		C722	87-012-176-080	CAP 15P	
C187	87-010-322-080	C-CAP,S 100P-50 CH		C723	87-010-401-080	CAP, ELECT 1-50V	
C188	87-010-322-080	C-CAP,S 100P-50 CH		C723	87-012-274-080	CHIP CAP,U 1000P-50B	
C189	87-010-322-080	C-CAP,S 100P-50 CH		C725	87-012-274-080	CHIP CAP,U 1000P-50B	
C190	87-010-322-080	C-CAP,S 100P-50 CH		C726	87-010-405-080	CAP, ELECT 10-50V	
C240	87-016-526-080	C-CAP,S 0.47-16 BK		C727	87-010-196-080	CHIP CAPACITOR,0.1-25	
C401	87-010-178-080	CHIP CAP 1000P		C728	87-010-248-080	CAP, ELECT 220-10V	
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-A60-054-010	CONN,14P V 9604S-14C		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	

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C828	87-010-196-080		CHIP CAPACITOR,0.1-25	C150	87-010-405-080		CAP, ELECT 10-50V
C829	87-010-196-080		CHIP CAPACITOR,0.1-25	C151	87-010-405-080		CAP, ELECT 10-50V
C959	87-010-196-080		CHIP CAPACITOR,0.1-25	C152	87-010-405-080		CAP, ELECT 10-50V
C960	87-010-196-080		CHIP CAPACITOR,0.1-25	C153	87-010-178-080		CHIP CAP 1000P
C961	87-012-170-080		C-CAP,U 8P-50 CH	C154	87-010-178-080		CHIP CAP 1000P
CF801	87-008-261-010		FILTER, SFE10.7MA5-A	C155	87-A10-369-080		C-CAP,S 0.47-16 K B
CF802	87-008-261-010		FILTER, SFE10.7MA5-A	C157	87-012-154-080		C-CAP,S 150P-50 CH
CN601	87-099-028-010		CONN,11P 6216 H	C158	87-012-154-080		C-CAP,S 150P-50 CH
FFE801	A8-8ZA-190-030		8ZA-1 FEUNM	C159	87-010-178-080		CHIP CAP 1000P
J801	87-A60-657-010		TERMINAL,4P HSP-154V5-02	C160	87-010-178-080		CHIP CAP 1000P
L771	87-A50-266-010		COIL,FM DET-2N(TOK)	C161	87-010-405-080		CAP, ELECT 10-50V
L772	87-A90-733-010		FLTR,PCFAZH-450 (TOK)	C162	87-010-405-080		CAP, ELECT 10-50V
L781	87-005-847-080		COIL,2.2UH(CECS)	C163	87-010-196-080		CHIP CAPACITOR,0.1-25
L791	87-A50-027-010		COIL,1 POLE MPX(TOK)	C164	87-010-196-080		CHIP CAPACITOR,0.1-25
L792	87-A50-027-010		COIL,1 POLE MPX(TOK)	C165	87-A10-369-080		C-CAP,S 0.47-16 K B
L832	87-005-847-080		COIL,2.2UH(CECS)	C166	87-010-405-080		CAP, ELECT 10-50V
L981	87-NF4-650-010		COIL,AM PACK 4N(TOK)	C167	87-010-405-080		CAP, ELECT 10-50V
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309	C169	87-012-154-080		C-CAP,S 150P-50 CH
				C170	87-012-154-080		C-CAP,S 150P-50 CH
				C171	87-010-178-080		CHIP CAP 1000P
DOLBY DIGITAL C.B				C172	87-010-178-080		CHIP CAP 1000P
C101	87-010-196-080		CHIP CAPACITOR,0.1-25	C173	87-018-209-080		CAP, CER 0.1-50V
C102	87-010-374-080		CAP, ELECT 47-10V	C174	87-010-196-080		CHIP CAPACITOR,0.1-25
C103	87-010-314-080		C-CAP,S 22P-50V	C175	87-010-196-080		CHIP CAPACITOR,0.1-25
C104	87-010-313-080		CAP, CHIP 18P	C176	87-010-196-080		CHIP CAPACITOR,0.1-25
C105	87-010-196-080		CHIP CAPACITOR,0.1-25				
C106	87-010-197-080		CAP, CHIP 0.01 DM	C177	87-A10-369-080		C-CAP,S 0.47-16 K B
C107	87-010-196-080		CHIP CAPACITOR,0.1-25	C178	87-010-196-080		CHIP CAPACITOR,0.1-25
C108	87-010-196-080		CHIP CAPACITOR,0.1-25	C179	87-010-196-080		CHIP CAPACITOR,0.1-25
C109	87-010-196-080		CHIP CAPACITOR,0.1-25	C180	87-010-405-080		CAP, ELECT 10-50V
C110	87-010-196-080		CHIP CAPACITOR,0.1-25	C181	87-010-405-080		CAP, ELECT 10-50V
C111	87-010-196-080		CHIP CAPACITOR,0.1-25	C182	87-010-405-080		CAP, ELECT 10-50V
C112	87-010-404-080		CAP, ELECT 4.7-50V	C183	87-010-196-080		CHIP CAPACITOR,0.1-25
C113	87-010-196-080		CHIP CAPACITOR,0.1-25	C184	87-010-196-080		CHIP CAPACITOR,0.1-25
C114	87-010-196-080		CHIP CAPACITOR,0.1-25	C185	87-010-405-080		CAP, ELECT 10-50V
C115	87-010-374-080		CAP, ELECT 47-10V	C186	87-010-405-080		CAP, ELECT 10-50V
C116	87-012-140-080		CAP 470P	C187	87-016-083-080		C-CAP,S 0.15-16 RK
C117	87-010-198-080		CAP, CHIP 0.022	C188	87-016-083-080		C-CAP,S 0.15-16 RK
C118	87-010-401-080		CAP, ELECT 1-50V	C189	87-016-083-080		C-CAP,S 0.15-16 K R
C119	87-010-196-080		CHIP CAPACITOR,0.1-25	C190	87-010-405-080		CAP, ELECT 10-50V
C120	87-010-196-080		CHIP CAPACITOR,0.1-25	C191	87-010-196-080		CHIP CAPACITOR,0.1-25
C121	87-010-401-080		CAP, ELECT 1-50V	C192	87-010-196-080		CHIP CAPACITOR,0.1-25
C122	87-010-311-080		CAP 12P	C193	87-010-154-080		CAP CHIP 10P
C123	87-010-311-080		CAP 12P	C194	87-010-154-080		CAP CHIP 10P
C124	87-010-263-080		CAP, ELECT 100-10V	C195	87-010-405-080		CAP, ELECT 10-50V
C125	87-010-196-080		CHIP CAPACITOR,0.1-25	C196	87-010-196-080		CHIP CAPACITOR,0.1-25
C126	87-010-196-080		CHIP CAPACITOR,0.1-25	C197	87-010-405-080		CAP, ELECT 10-50V
C127	87-010-555-040		CAP,E 100-10 GAS	C198	87-010-196-080		CHIP CAPACITOR,0.1-25
C128	87-010-196-080		CHIP CAPACITOR,0.1-25	C199	87-A10-369-080		C-CAP,S 0.47-16 K B
C129	87-010-384-080		CAP, ELECT 100-25V	C201	87-010-154-080		CAP CHIP 10P
C130	87-010-182-080		C-CAP,S 2200P-50 B	C202	87-010-154-080		CAP CHIP 10P
C131	87-010-263-080		CAP, ELECT 100-10V	C203	87-010-196-080		CHIP CAPACITOR,0.1-25
C132	87-010-401-080		CAP, ELECT 1-50V	C204	87-010-196-080		CHIP CAPACITOR,0.1-25
C133	87-010-196-080		CHIP CAPACITOR,0.1-25	C205	87-A10-369-080		C-CAP,S 0.47-16 K B
C134	87-010-196-080		CHIP CAPACITOR,0.1-25	C206	87-010-401-080		CAP, ELECT 1-50V
C135	87-010-405-080		CAP, ELECT 10-50V	C207	87-010-405-080		CAP, ELECT 10-50V
C136	87-010-405-080		CAP, ELECT 10-50V	C208	87-010-405-080		CAP, ELECT 10-50V
C137	87-010-196-080		CHIP CAPACITOR,0.1-25	C209	87-010-154-080		CAP CHIP 10P
C138	87-010-196-080		CHIP CAPACITOR,0.1-25	C210	87-010-154-080		CAP CHIP 10P
C139	87-010-314-080		C-CAP,S 22P-50V	C211	87-010-196-080		CHIP CAPACITOR,0.1-25
C140	87-010-552-040		CAP,E 22-16 GAS	C212	87-010-196-080		CHIP CAPACITOR,0.1-25
C141	87-010-196-080		CHIP CAPACITOR,0.1-25	C213	87-A10-369-080		C-CAP,S 0.47-16 K B
C142	87-010-182-080		C-CAP,S 2200P-50 B	C214	87-010-405-080		CAP, ELECT 10-50V
C143	87-010-196-080		CHIP CAPACITOR,0.1-25	C215	87-010-405-080		CAP, ELECT 10-50V
C144	87-010-312-080		C-CAP,S 15P-50 CH	C216	87-010-405-080		CAP, ELECT 10-50V
C145	87-012-154-080		C-CAP,S 150P-50 CH	C219	87-010-993-080		C-CAP,S 0.056-25 B
C146	87-012-154-080		C-CAP,S 150P-50 CH	C220	87-A10-369-080		C-CAP,S 0.47-16 K B
C147	87-010-405-080		CAP, ELECT 10-50V	C222	87-010-196-080		CHIP CAPACITOR,0.1-25
C148	87-010-196-080		CHIP CAPACITOR,0.1-25	C224	87-010-196-080		CHIP CAPACITOR,0.1-25
C149	87-010-196-080		CHIP CAPACITOR,0.1-25	C225	87-012-155-080		C-CAP 180P-50CH
				C226	87-012-155-080		C-CAP 180P-50CH

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C227	87-010-405-080		CAP, ELECT 10-50V	C504	87-010-188-080		CAP,CHIP 6800P
C228	87-010-405-080		CAP, ELECT 10-50V	C507	87-018-209-080		CAP, CER 0.1-50V
C230	87-010-196-080		CHIP CAPACITOR,0.1-25	CN401	87-099-758-010		CONN,17P H 9604
C232	87-010-196-080		CHIP CAPACITOR,0.1-25	FB501	87-008-372-080		FILTER, EMI BL OIRNI
C234	87-010-196-080		CHIP CAPACITOR,0.1-25	FB602	87-008-372-080		FILTER, EMI BL OIRNI
C235	87-010-196-080		CHIP CAPACITOR,0.1-25	J501	87-A60-948-010		JACK,PIN 3P R/W/Y GLD
C236	87-010-196-080		CHIP CAPACITOR,0.1-25	J603	87-A60-550-010		JACK,DIA6.3 BLK ST W/SW KM
C237	87-010-196-080		CHIP CAPACITOR,0.1-25	LED401	87-A40-317-080		LED,SLR-342VCT31 RED
C238	87-010-314-080		C-CAP,S 22P-50V	S401	87-A90-095-080		SW,TACT EVQ11G04M
C239	87-010-196-080		CHIP CAPACITOR,0.1-25	S402	87-A90-095-080		SW,TACT EVQ11G04M
C240	87-010-314-080		C-CAP,S 22P-50V	S403	87-A90-095-080		SW,TACT EVQ11G04M
C241	87-010-405-080		CAP, ELECT 10-50V	SW401	87-A91-373-010		SW,RTRY EC16B1220408
C242	87-010-196-080		CHIP CAPACITOR,0.1-25				
C243	87-010-322-080		C-CAP,S 100P-50 CH				
C244	87-010-196-080		CHIP CAPACITOR,0.1-25	GEQ C.B			
C280	87-010-401-080		CAP, ELECT 1-50V	C758	87-010-404-080		CAP, ELECT 4.7-50V
C301	87-012-393-080		C-CAP,S 0.22-16 R K	C759	87-012-368-080		C-CAP,S 0.1-50 F
C302	87-012-393-080		C-CAP,S 0.22-16 R K	C761	87-010-198-080		CAP, CHIP 0.022
C303	87-010-196-080		CHIP CAPACITOR,0.1-25	C762	87-010-197-080		CAP, CHIP 0.01 DM
C304	87-012-393-080		C-CAP,S 0.22-16 R K	C764	87-010-185-080		C-CAP,S 3900P-50 B
C305	87-010-184-080		CHIP CAPACITOR 3300P(K)	C765	87-010-194-080		CAP, CHIP 0.047
C306	87-010-183-080		C-CAP,S 2700P-50 B	C766	87-010-181-080		CAP,CHIP S 1800P
C307	87-016-669-080		C-CAP,S 0.1-25 K B	C767	87-010-198-080		CAP, CHIP 0.022
C308	87-016-669-080		C-CAP,S 0.1-25 K B	C768	87-010-994-080		C-CAP,S 680P-50 CH
C309	87-010-184-080		CHIP CAPACITOR 3300P(K)	C769	87-010-188-080		CAP,CHIP 6800P
C310	87-010-183-080		C-CAP,S 2700P-50 B	C770	87-012-145-080		CAP, CHIP S 270P CH
C311	87-012-393-080		C-CAP,S 0.22-16 R K	C771	87-010-183-080		C-CAP,S 2700P-50 B
C312	87-010-374-080		CAP, ELECT 47-10V	C772	87-012-145-080		CAP, CHIP S 270P CH
C315	87-010-404-080		CAP, ELECT 4.7-50V	C773	87-010-188-080		CAP,CHIP 6800P
C316	87-010-404-080		CAP, ELECT 4.7-50V	C774	87-010-994-080		C-CAP,S 680P-50 CH
C317	87-010-183-080		C-CAP,S 2700P-50 B	C775	87-010-198-080		CAP, CHIP 0.022
C318	87-010-183-080		C-CAP,S 2700P-50 B	C776	87-010-181-080		CAP,CHIP S 1800P
C319	87-010-545-080		CAP, ELECT 0.22-50V	C777	87-010-194-080		CAP, CHIP 0.047
C320	87-010-196-080		CHIP CAPACITOR,0.1-25	C778	87-010-185-080		C-CAP,S 3900P-50 B
C321	87-010-263-080		CAP, ELECT 100-10V	C780	87-010-197-080		CAP, CHIP 0.01 DM
C401	87-010-196-080		CHIP CAPACITOR,0.1-25	C782	87-010-183-080		C-CAP,S 2700P-50 B
C402	87-010-404-080		CAP, ELECT 4.7-50V	C783	87-010-198-080		CAP, CHIP 0.022
C403	87-010-401-080		CAP, ELECT 1-50V	C786	87-010-402-080		CAP, ELECT 2.2-50V
C404	87-018-131-080		CAP, CER 1000P-50V	C787	87-010-402-080		CAP, ELECT 2.2-50V
C405	87-018-131-080		CAP, CER 1000P-50V	C788	87-010-260-080		CAP, ELECT 47-25V
CN101	87-099-561-010		CONN,15P TUC-P15X-B1	C789	87-010-260-080		CAP, ELECT 47-25V
CN102	87-099-561-010		CONN,15P TUC-P15X-B1	C790	87-010-260-080		CAP, ELECT 47-25V
CN103	8Z-AR1-635-010		CONN ASSY,4P (DTS,AC-3)	C791	87-010-405-080		CAP, ELECT 10-50V
FB102	87-008-372-080		FILTER, EMI BL OIRNI	C792	87-010-405-080		CAP, ELECT 10-50V
FB104	87-008-372-080		FILTER, EMI BL OIRNI	C793	87-012-368-080		C-CAP,S 0.1-50 F
FB105	87-008-372-080		FILTER, EMI BL OIRNI	C794	87-012-368-080		C-CAP,S 0.1-50 F
FB106	87-008-372-080		FILTER, EMI BL OIRNI	C797	87-010-322-080		C-CAP,S 100P-50 CH
FB107	87-008-474-080		F-BEAD,EMI BL02RN1	C798	87-010-322-080		C-CAP,S 100P-50 CH
FB108	87-008-474-080		F-BEAD,EMI BL02RN1	C799	87-010-322-080		C-CAP,S 100P-50 CH
FB109	87-008-474-080		F-BEAD,EMI BL02RN1	CN701	87-099-557-010		CONN,11P TUC-P11X-B1
J101	87-A60-573-010		JACK,PIN 1P ORN	R773	87-010-188-080		CAP,CHIP 6800P
JR157	87-005-840-080		C-COIL,BLM21A10				
JR160	87-005-840-080		C-COIL,BLM21A10				
L102	87-A50-095-010		COIL,68UH RCR875D				
L103	87-005-274-080		COIL,68UH K LAL03	OSD/KEY CON C.B			
L104	87-008-501-080		FLTR,DSS306-B101	C652	87-010-196-080		CHIP CAPACITOR,0.1-25
L105	87-008-501-080		FLTR,DSS306-B101	C653	87-012-154-080		C-CAP,S 150P-50 CH
L106	87-003-097-080		COIL,1UH	C654	87-010-183-080		C-CAP,S 2700P-50 B
L107	87-005-840-080		C-COIL,BLM21A10	C655	87-010-196-080		CHIP CAPACITOR,0.1-25
L108	87-008-501-080		FLTR,DSS306-B101	C656	87-012-154-080		C-CAP,S 150P-50 CH
X101	87-A70-116-010		VIB,XTAL 10.00MHZ	C657	87-010-183-080		C-CAP,S 2700P-50 B
X102	87-A70-115-010		VIB,XTAL 12.288MHZ	C658	87-012-145-080		CAP, CHIP S 270P CH
				C659	87-010-177-080		C-CAP,S 820P-50 SL
				C670	87-012-145-080		CAP, CHIP S 270P CH
				C671	87-010-177-080		C-CAP,S 820P-50 SL
VIDEO C.B				C672	87-010-196-080		CHIP CAPACITOR,0.1-25
C101	87-018-131-080		CAP, CER 1000P-50V	C674	87-010-196-080		CHIP CAPACITOR,0.1-25
C102	87-010-186-080		CAP,CHIP 4700P	C675	87-010-263-080		CAP, ELECT 100-10V
C501	87-018-209-080		CAP, CER 0.1-50V	C676	87-010-374-080		CAP, ELECT 47-10V
C502	87-018-209-080		CAP, CER 0.1-50V	CN508	87-099-669-010		CONN,8P TUC-P8X-B1
C503	87-010-188-080		CAP,CHIP 6800P				

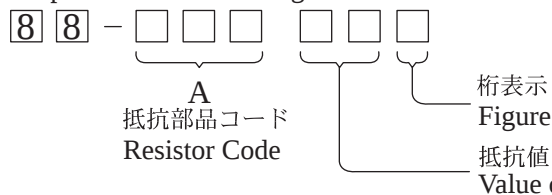
REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
D650	87-070-136-080		ZENER,MTZJ5.1B	C13	87-018-209-080		CAP, CER 0.1-50V
MIC C.B				CN101	88-805-042-690		CONN ASSY,4P
				CN103	87-A60-851-010		CONN,9P V VH
				△PR105	87-A90-195-080		PROTECTOR 7A 125V 49
				△PR106	87-A90-195-080		PROTECTOR 7A 125V 49
				△PR115	87-A90-195-080		PROTECTOR 7A 125V 49
				△PR116	87-A90-195-080		PROTECTOR 7A 125V 49
				△PT2	8Z-NF8-663-010		PT,SUB ZNF-8(H)
				△PT101	8Z-AR1-610-010		PT,ZAR-1(HR)
				△RY1	87-A90-454-010		RELAY,12V DJ12D2-0(M)
C601	87-010-196-080		CHIP CAPACITOR,0.1-25	AC-SW C.B			
C602	87-010-560-040		CAP,E 10-50 GAS	△	87-A60-317-010		TERMINAL, 1P MSC
C603	87-010-491-040		CAP,E 0.22-50 GAS	△	87-033-147-010		FUSE CLAMP
C604	87-A10-189-040		CAP,E 220-10	△F101	87-035-370-010		FUSE, 6.3A 250V
C605	87-010-322-080		C-CAP,S 100P-50 CH	△F102	87-035-370-010		FUSE, 6.3A 250V
C606	87-010-321-080		CHIP CAPACITOR,82P(J)	△SW101	87-A90-165-010		SW,SL 1-2-3 SWS2301
C607	87-010-196-080		CHIP CAPACITOR,0.1-25	SPKR C.B			
C608	87-010-186-080		CAP,CHIP 4700P	CN201	87-099-799-010		CONN,8P B8P-VH
C609	87-010-188-080		CAP,CHIP 6800P	CN202	87-009-663-010		CONN,6P VH V
C610	87-010-560-040		CAP,E 10-50 GAS	J901	87-033-211-010		TERMINAL, 8P SPKR0820
C611	87-010-322-080		C-CAP,S 100P-50 CH	J902	87-A60-965-010		TERMINAL,SP 6P LTS0620
C612	87-010-177-080		C-CAP,S 820P-50 SL				
C613	87-010-552-040		CAP,E 22-16 GAS				
C614	87-015-695-040		E/CAP 1UF 50V TAPG				
CN601	87-009-362-010		CONN,6P,BTMK P-1R				
J601	87-A60-188-010		JACK,6.3 BLK MONO W/SW MIC				
J602	87-A60-188-010		JACK,6.3 BLK MONO W/SW MIC				
PT C.B							
C1	87-010-387-010		CAP, ELECT 25-470SME				
C2	87-010-403-080		CAP, ELECT 3.3-50V				
C3	87-018-209-080		CAP, CER 0.1-50V				
C4	87-018-209-080		CAP, CER 0.1-50V				
C7	87-A10-922-090		CAP,CER 0.01-250 M F KH				

- 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

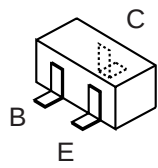
Chip Resistor Part Coding



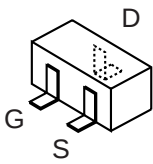
チップ抵抗
Chip resistor

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	RN1410
2SC3052	RT1N141C
2SD1306	RT1N144C
CMBT5401	RT1P141C
CMBT5551	RT1P144C
CSA1362	



2SK2158
2SK2937



E C B

2SA1296
CC5551
CSD1489
DTC114ES
KTA1266GR
KTA1267GR
KTC3198GR



BCE

DTA114YS



BCE

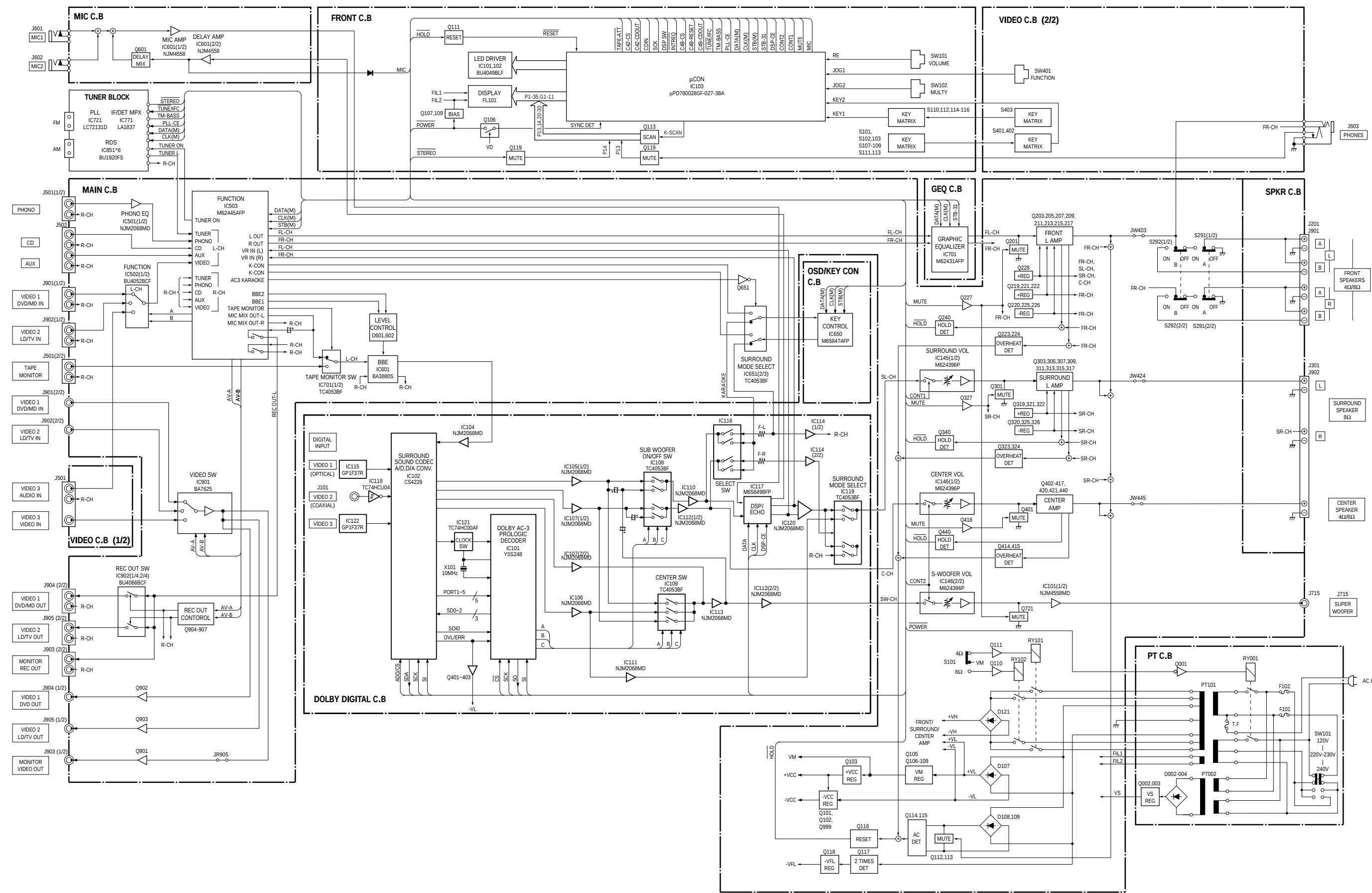
2SB1370
2SB1375
FN 1016
FP 1016
KTC3199GR



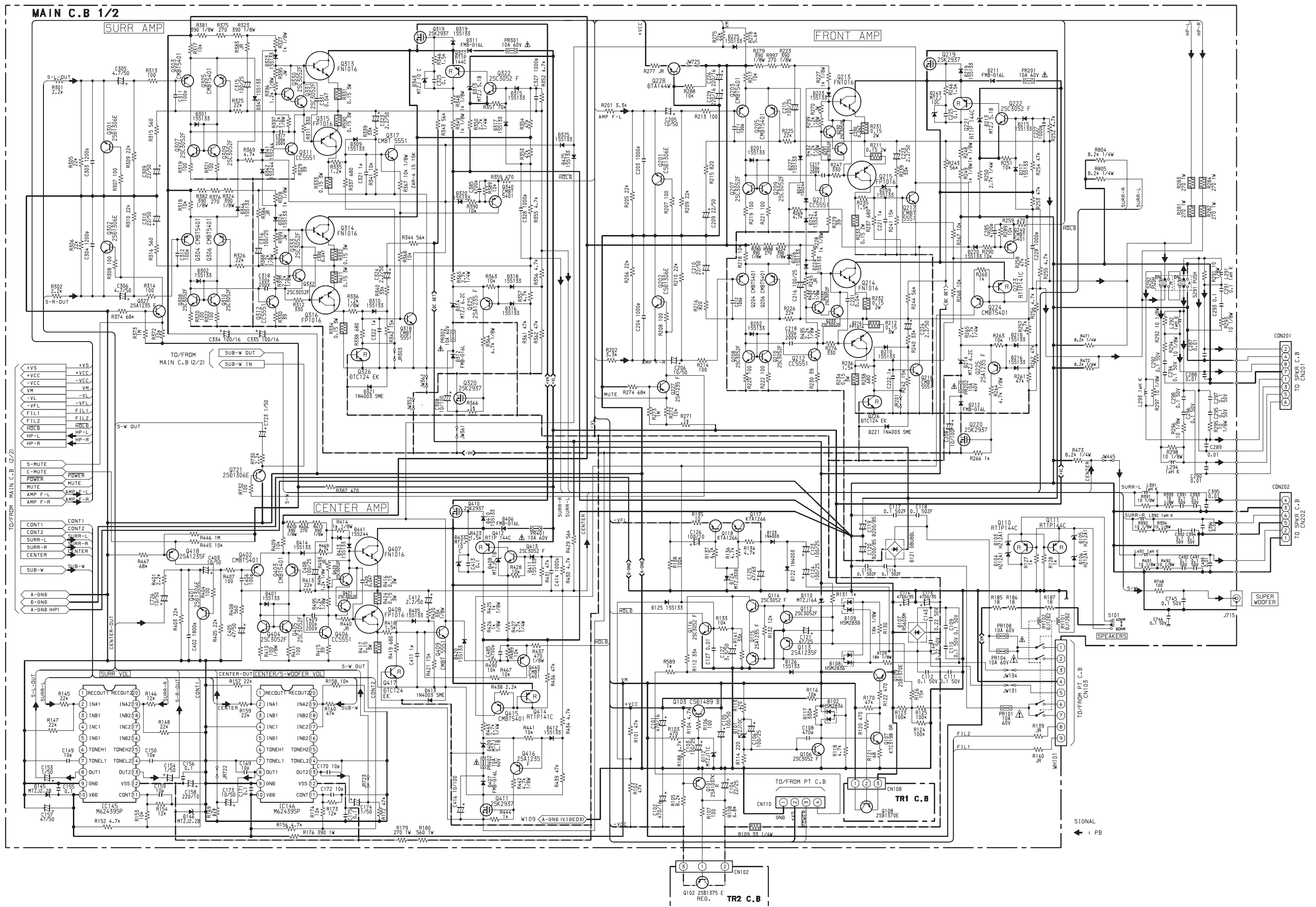
E C B

2SC4115

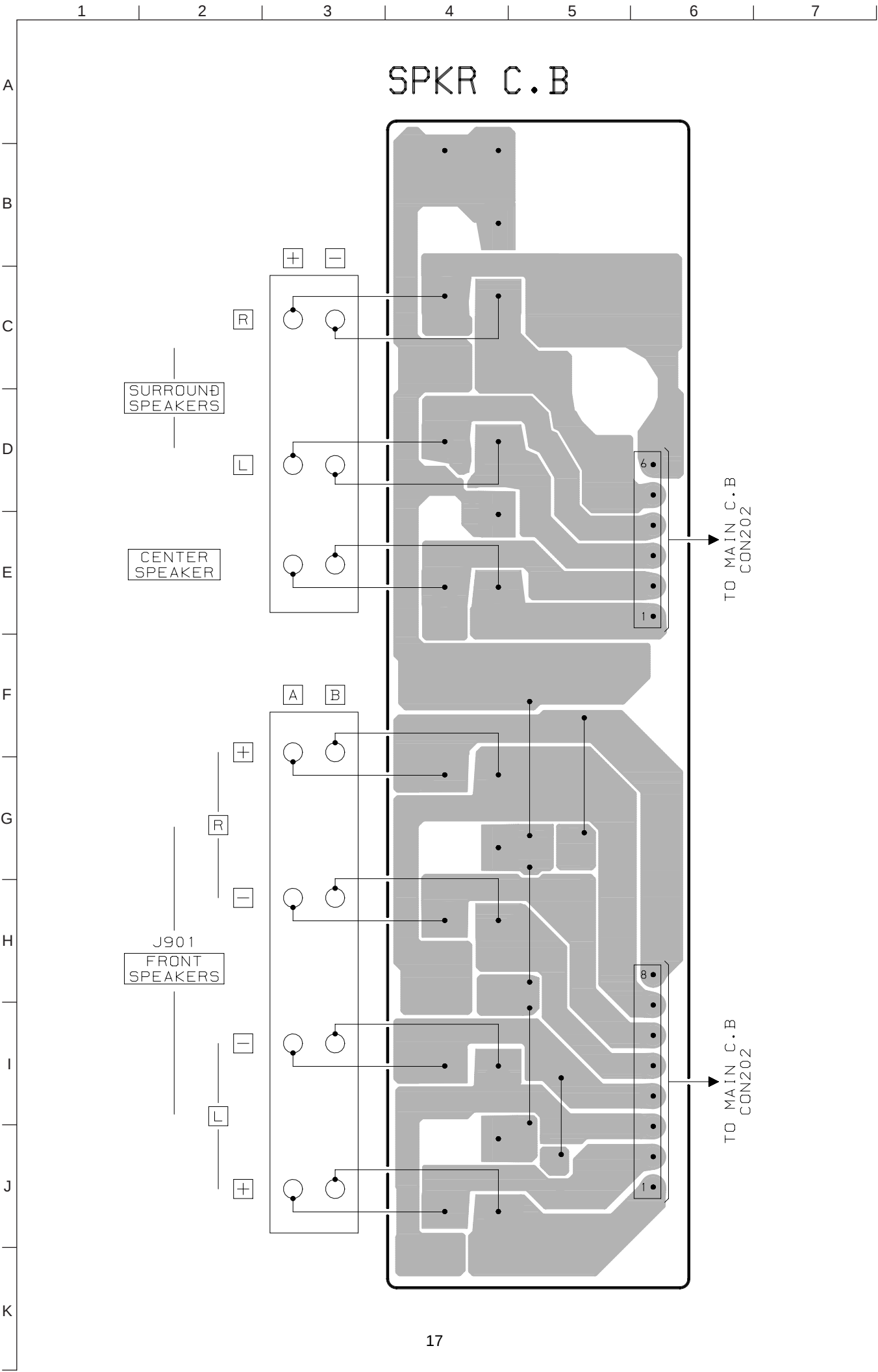
BLOCK DIAGRAM



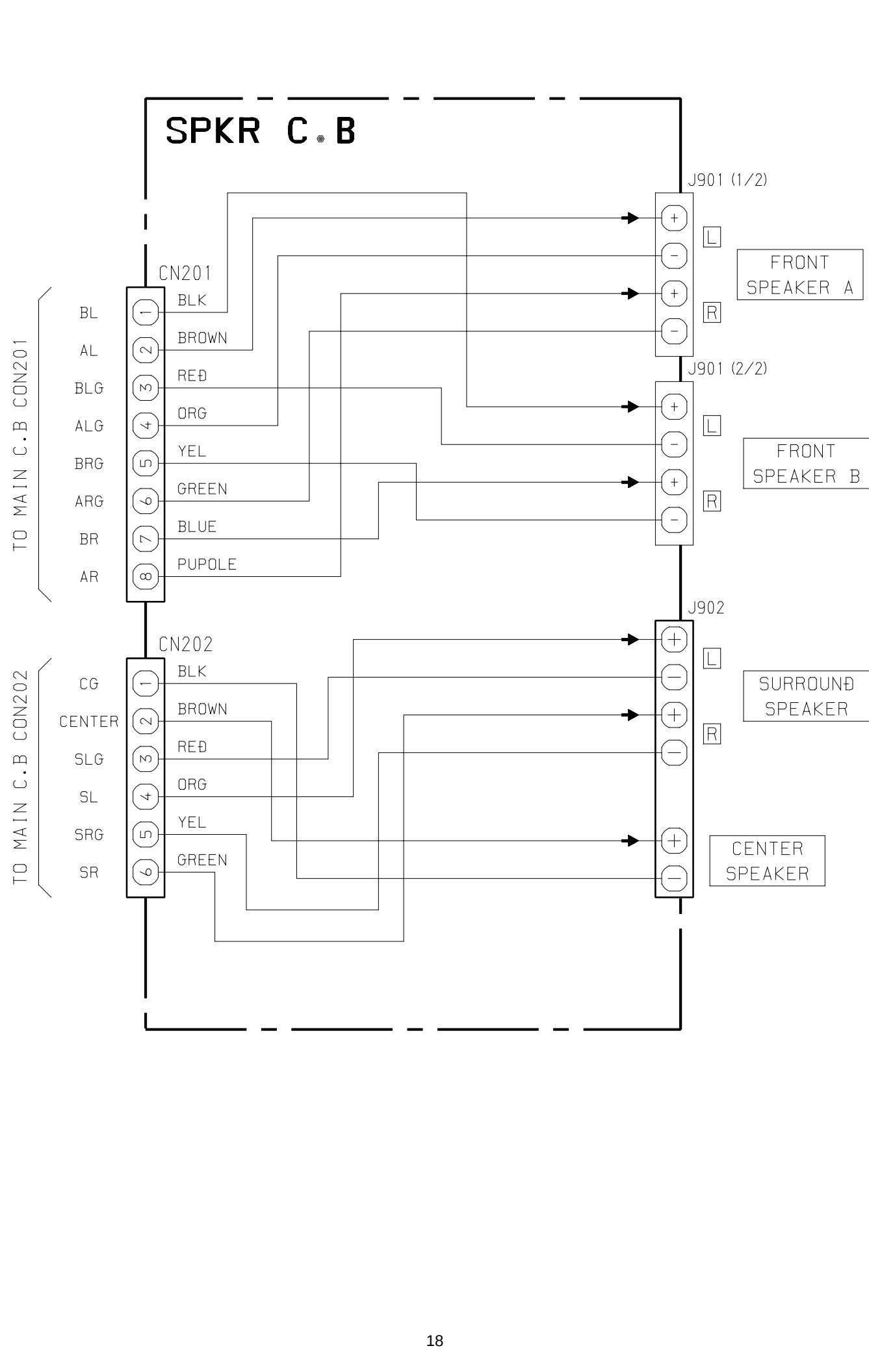
1		2		3		4		5		6		7		8		9		10		11		12		13		14	
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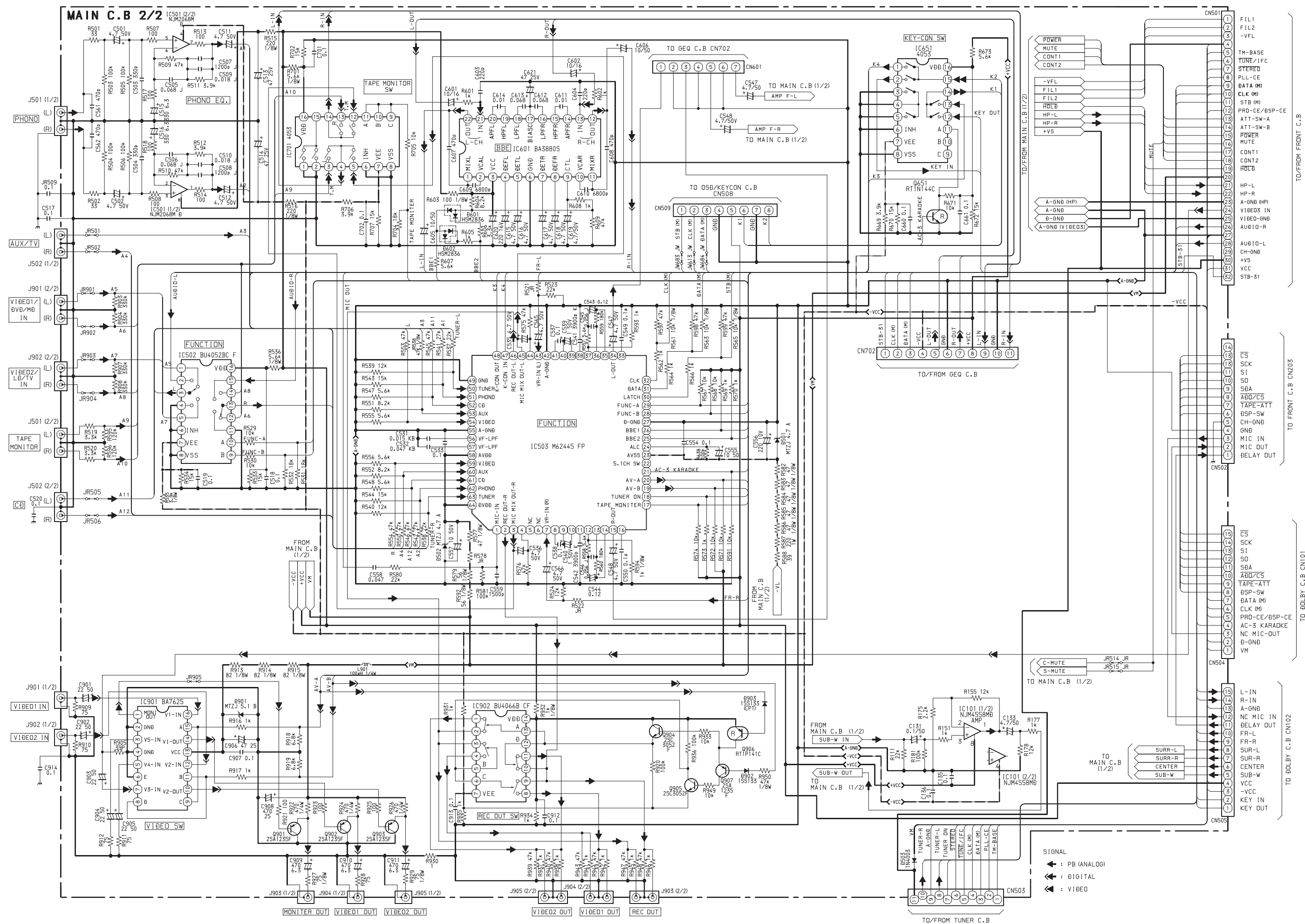
WIRING-2 (SPKR)



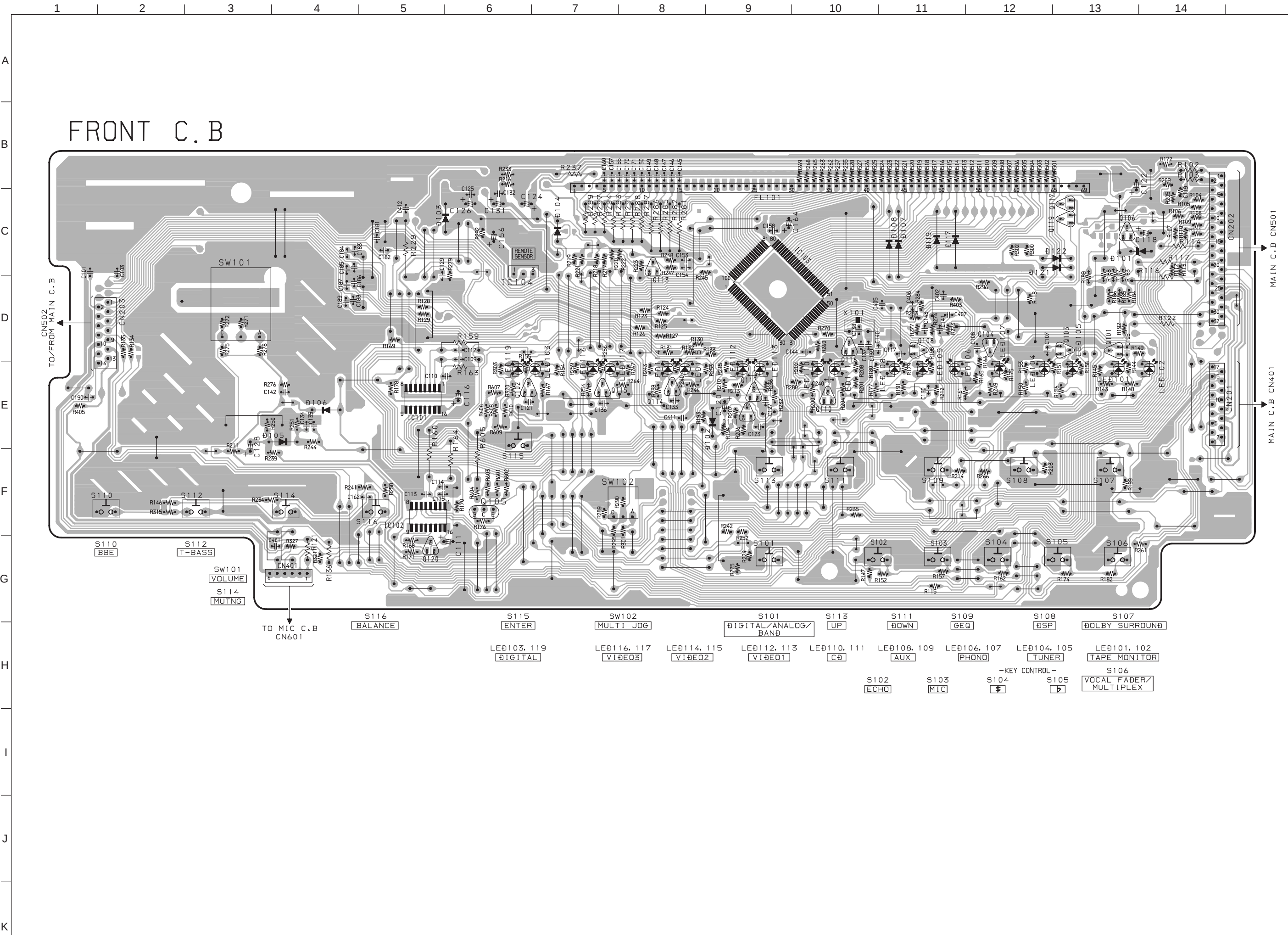
SCHEMATIC DIAGRAM-2 (SPKR)



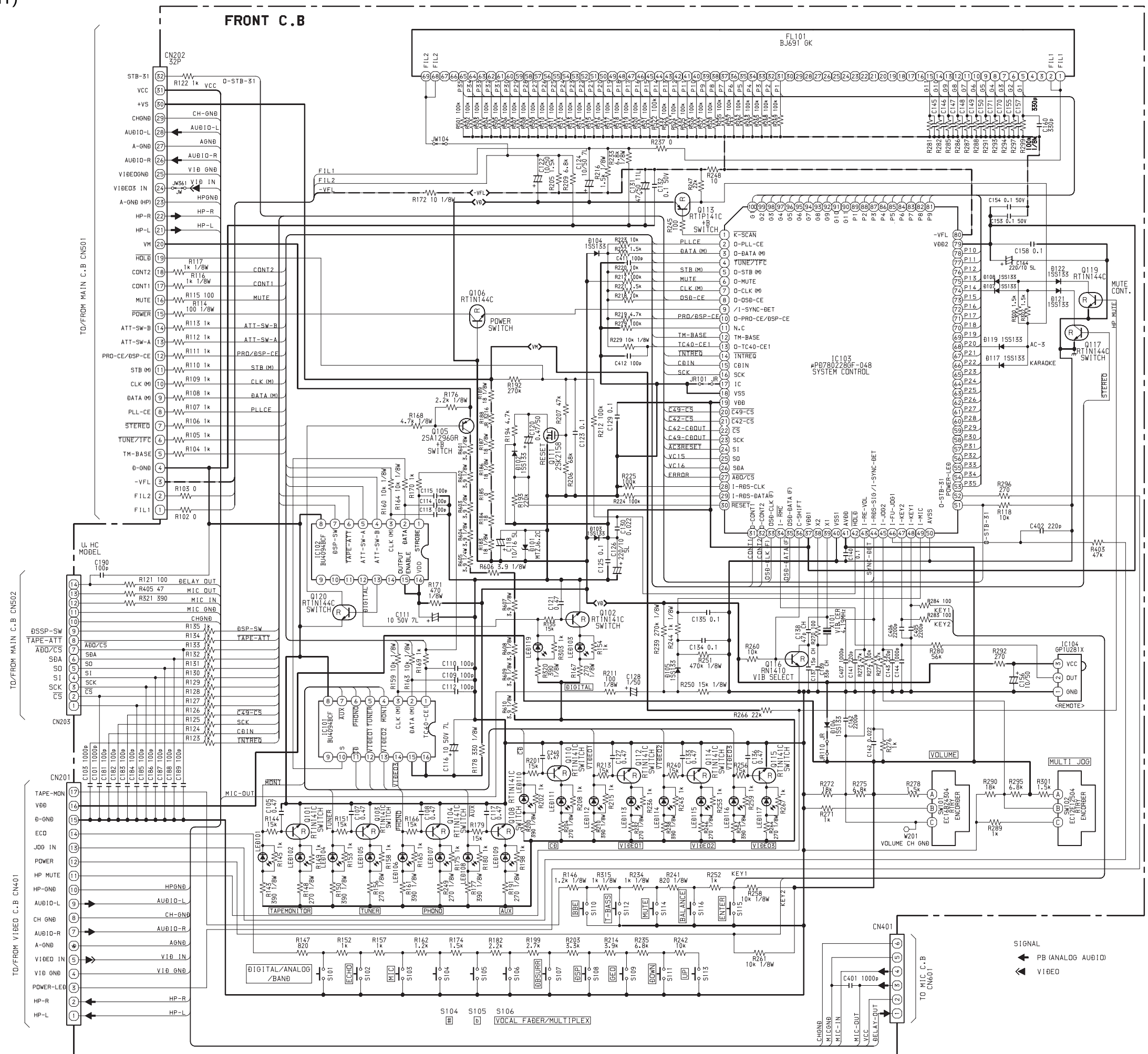
SCHEMATIC DIAGRAM-3 (MAIN 2/2)

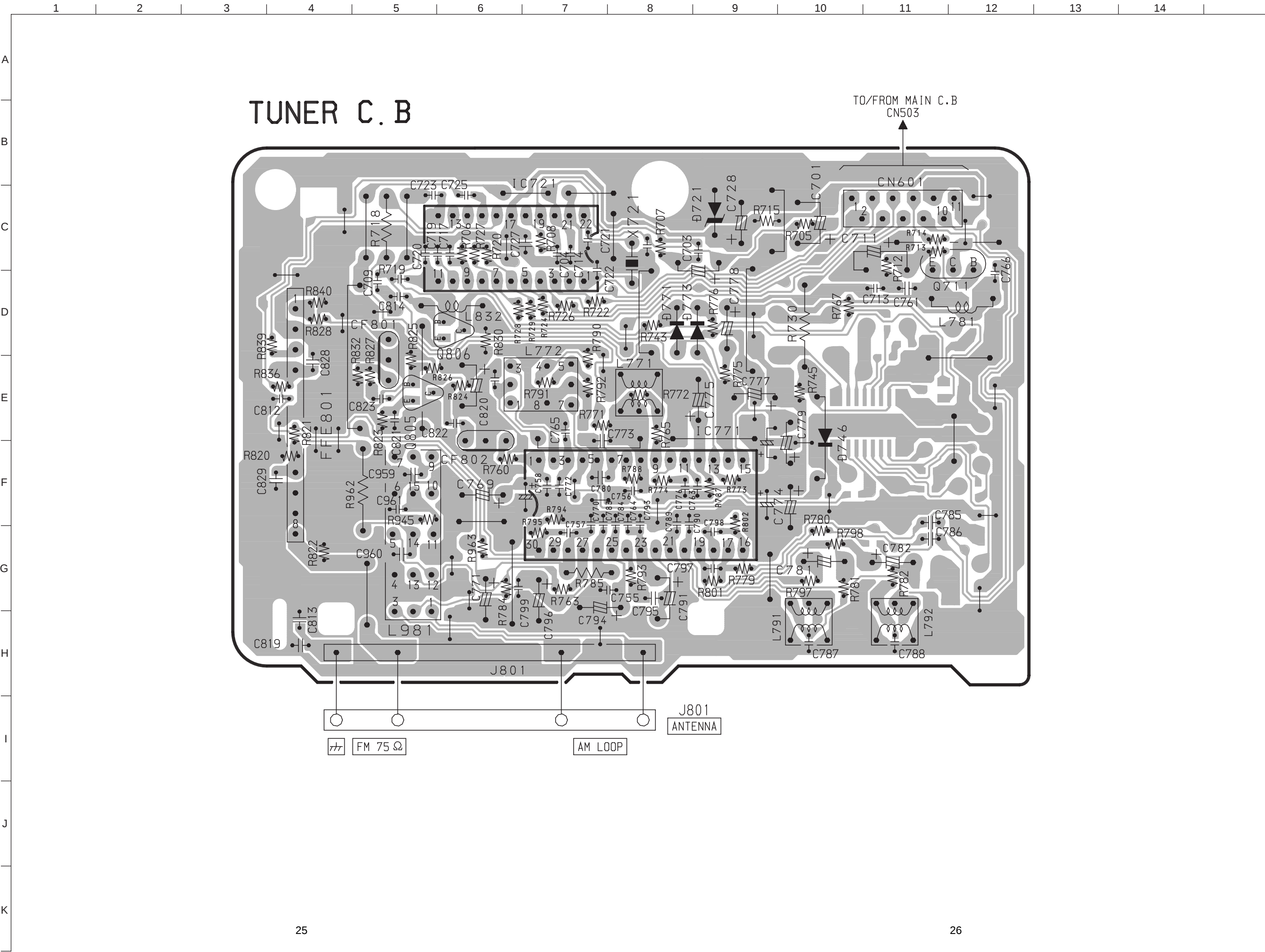


WIRING-3 (FRONT)

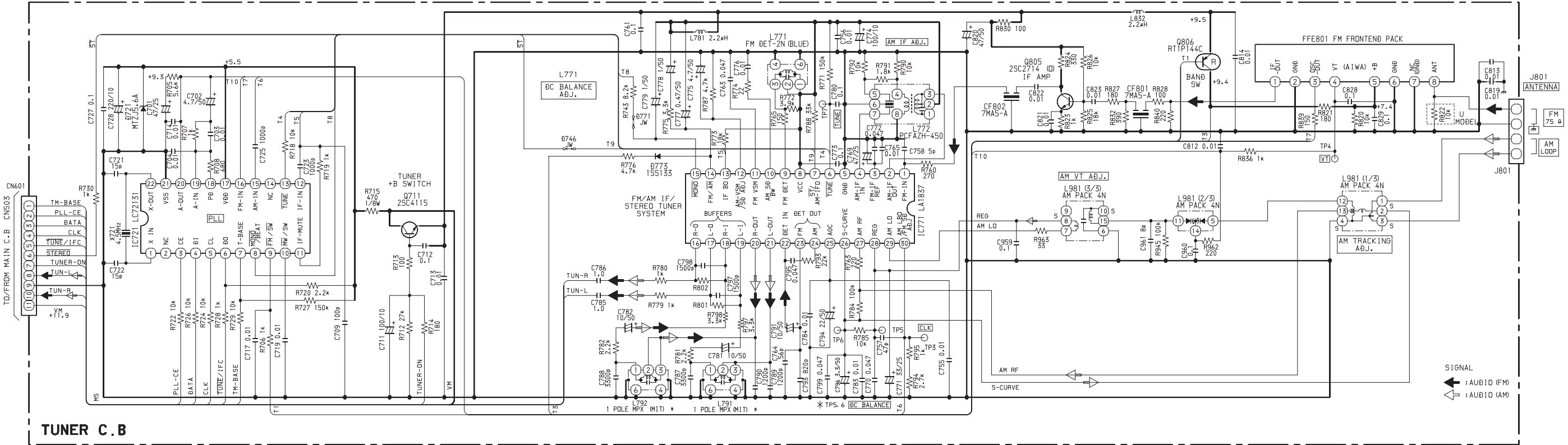


SCHEMATIC DIAGRAM-4 (FRONT)





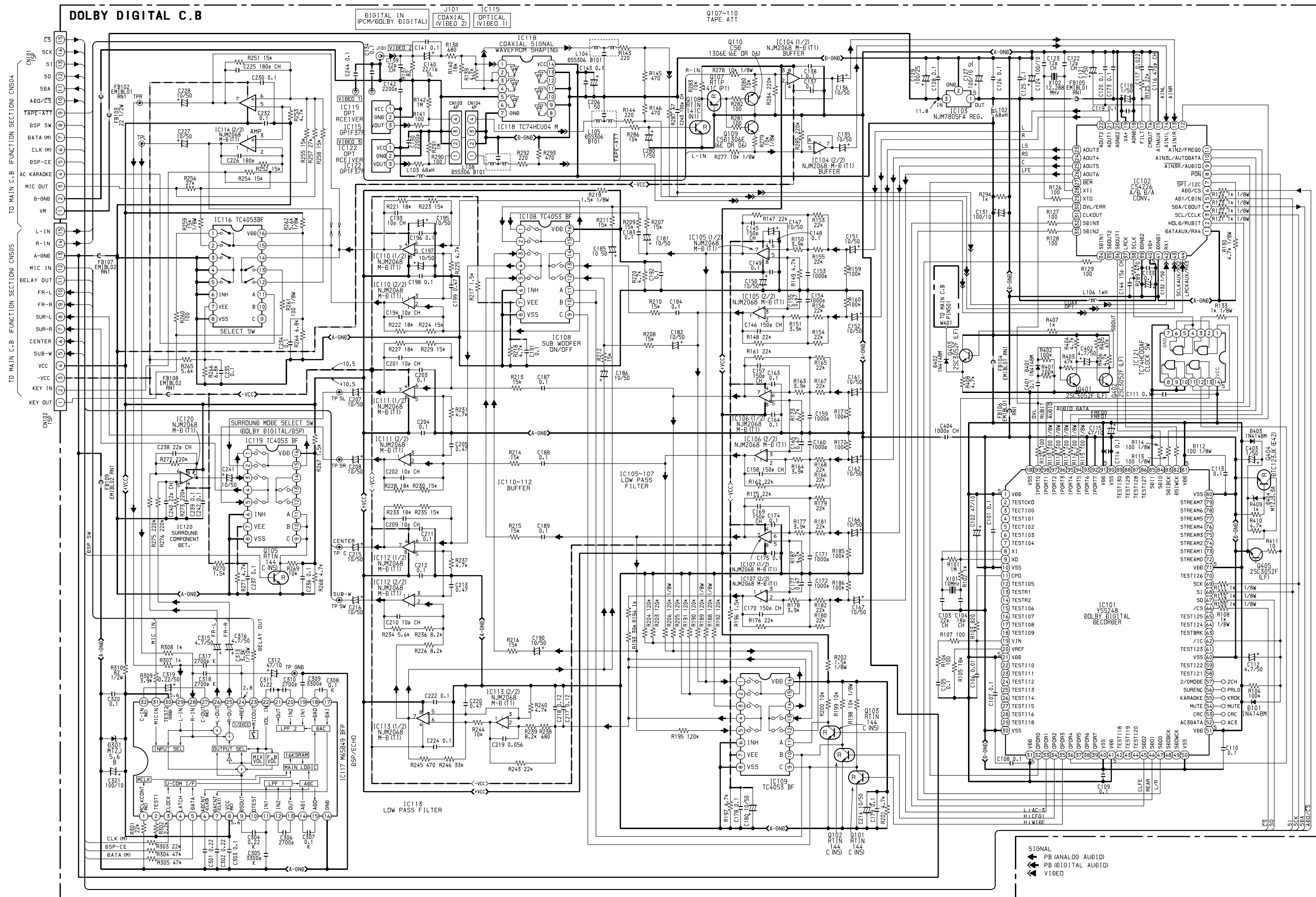
SCHEMATIC DIAGRAM-5 (TUNER)

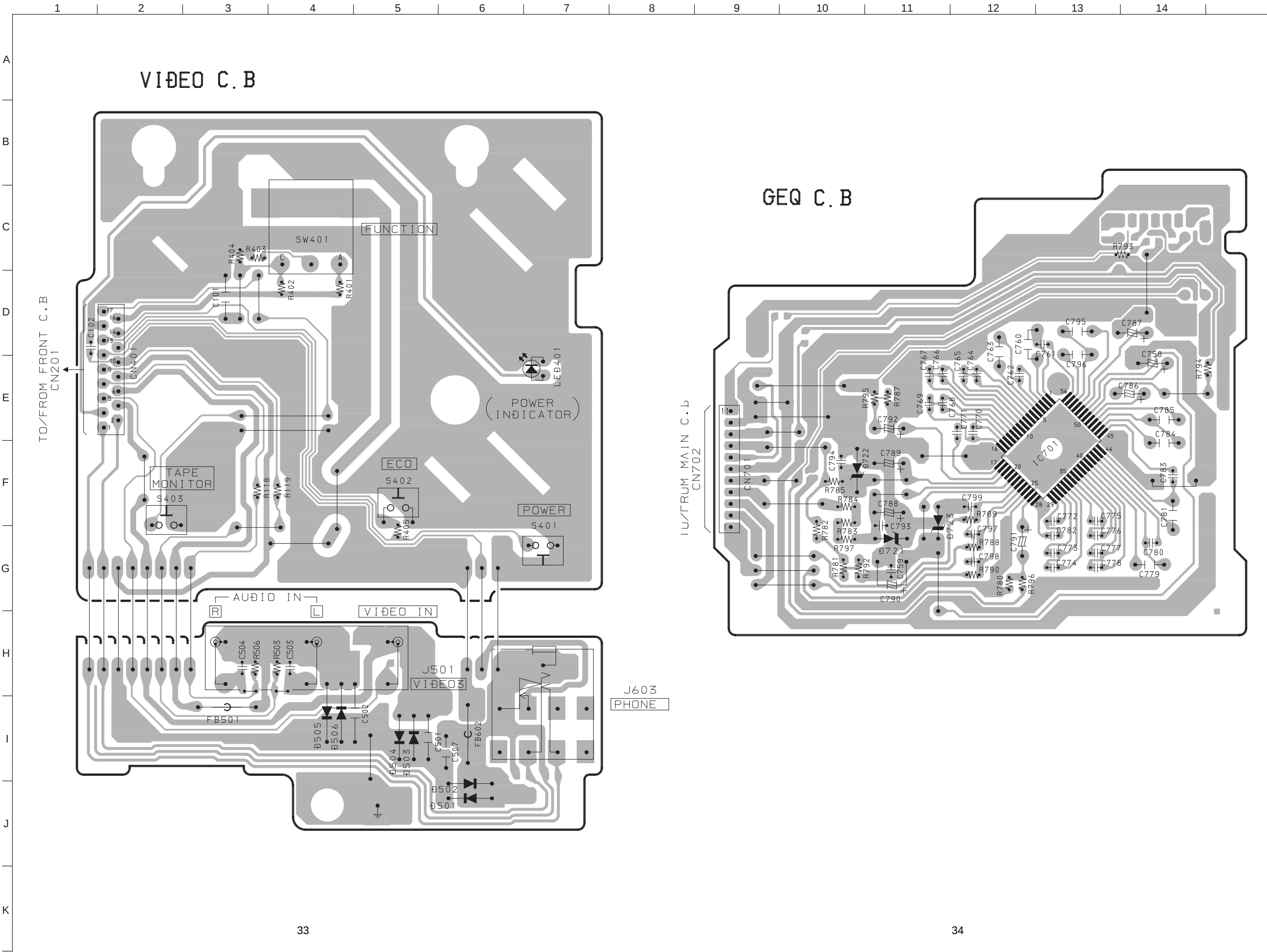


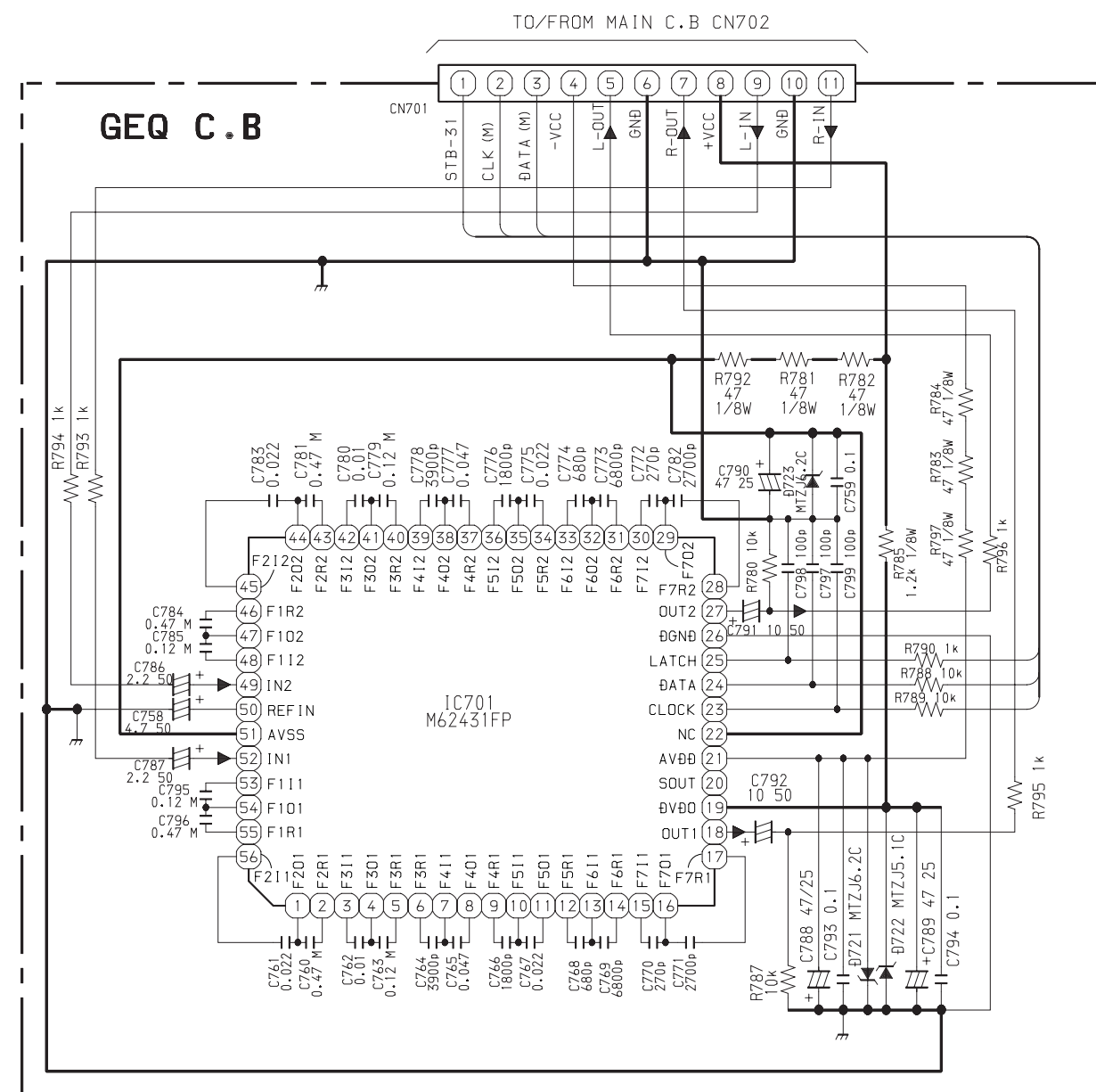
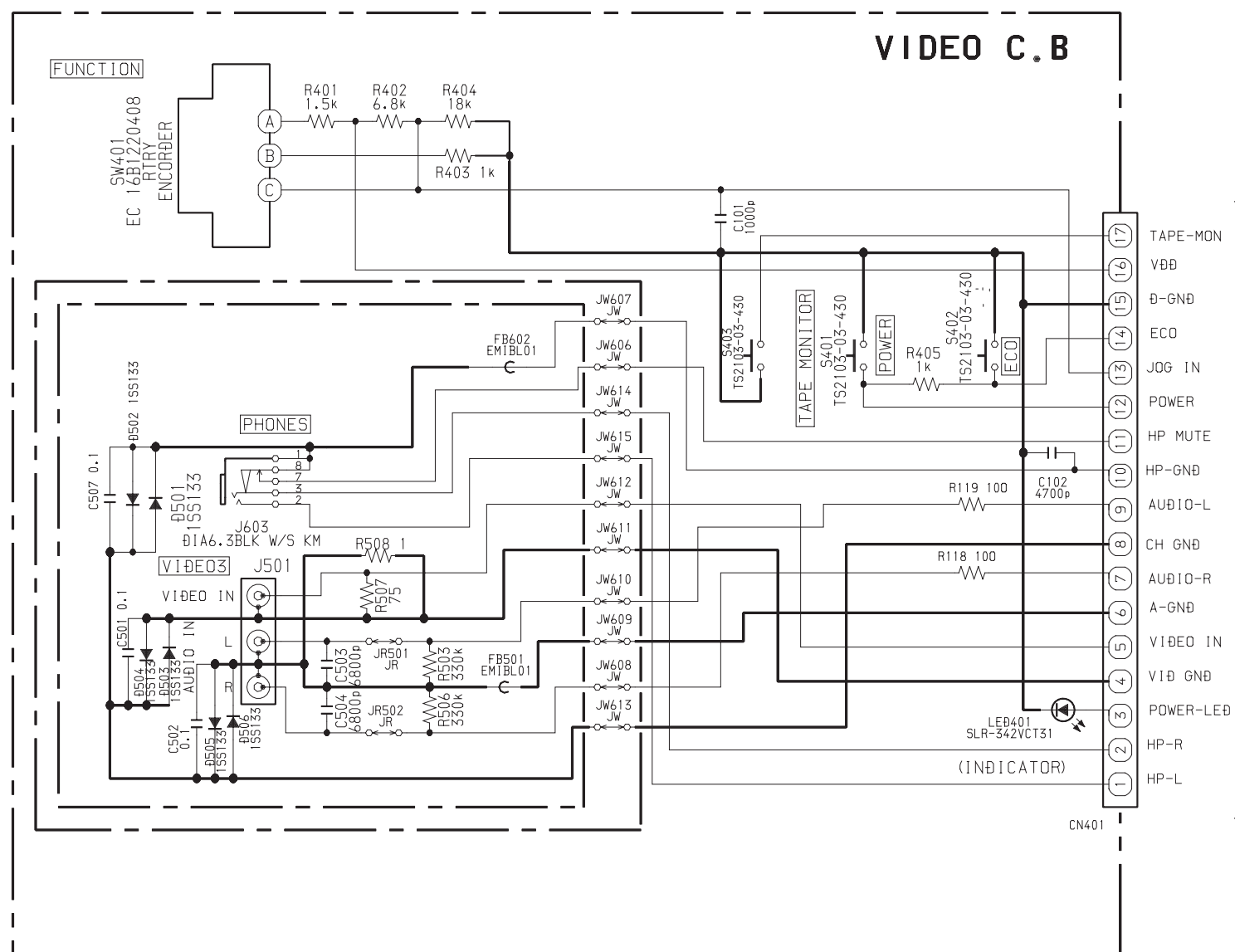
A
—
B
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C
—
D
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E
—
F
—
G
—
H
—
I
—
J
—
K

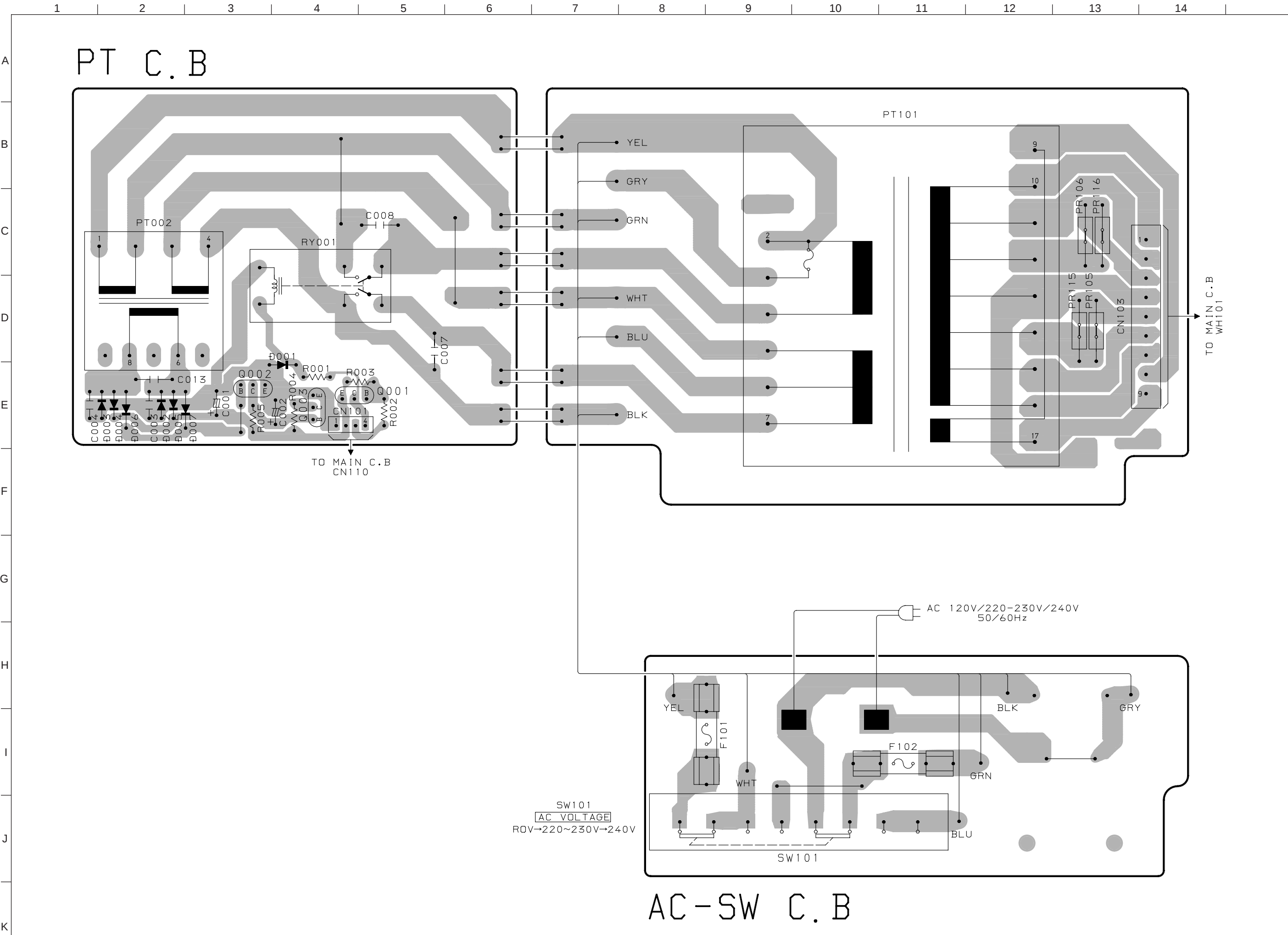


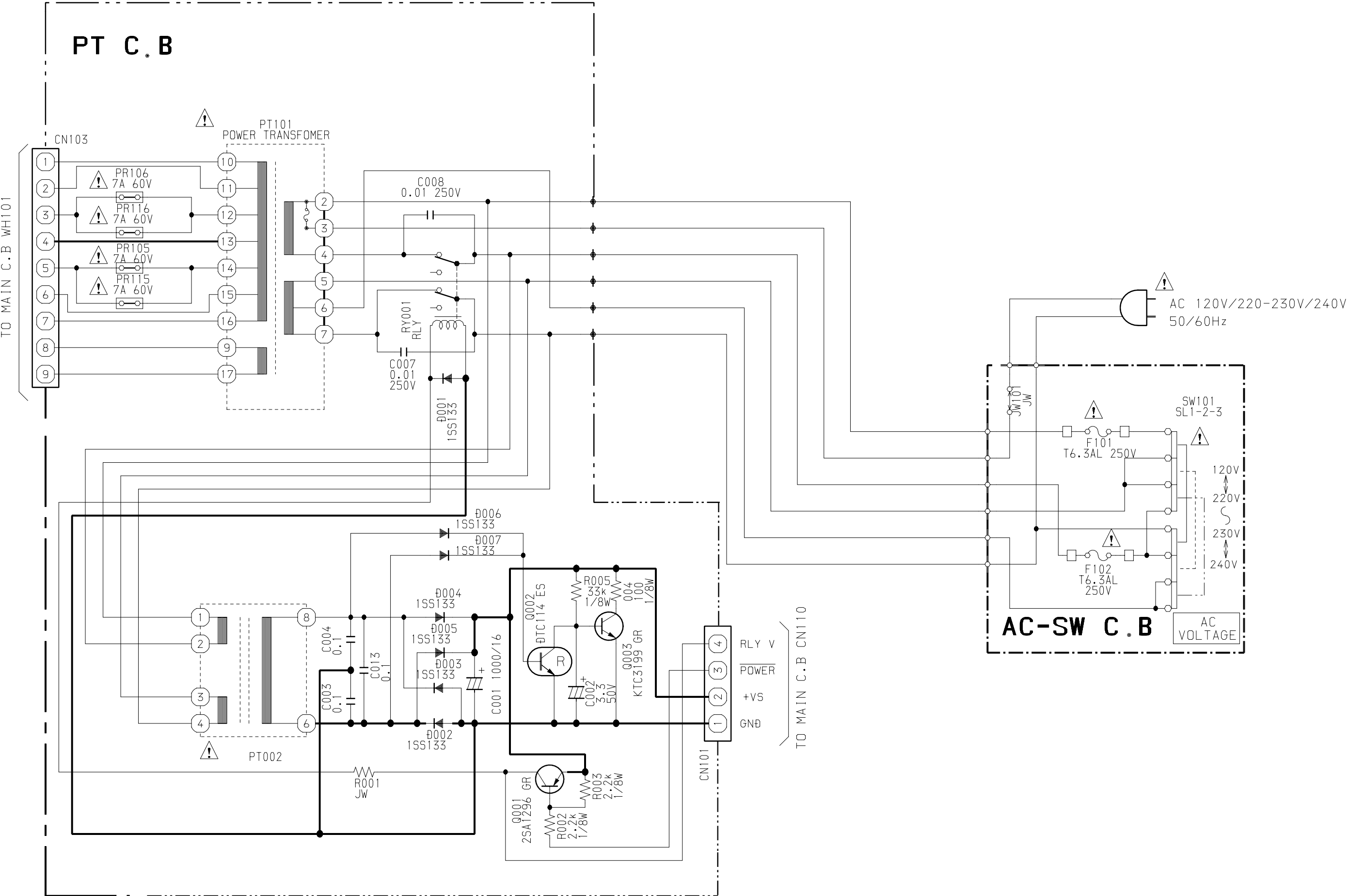
SCHEMATIC DIAGRAM-6 (DOLBY)

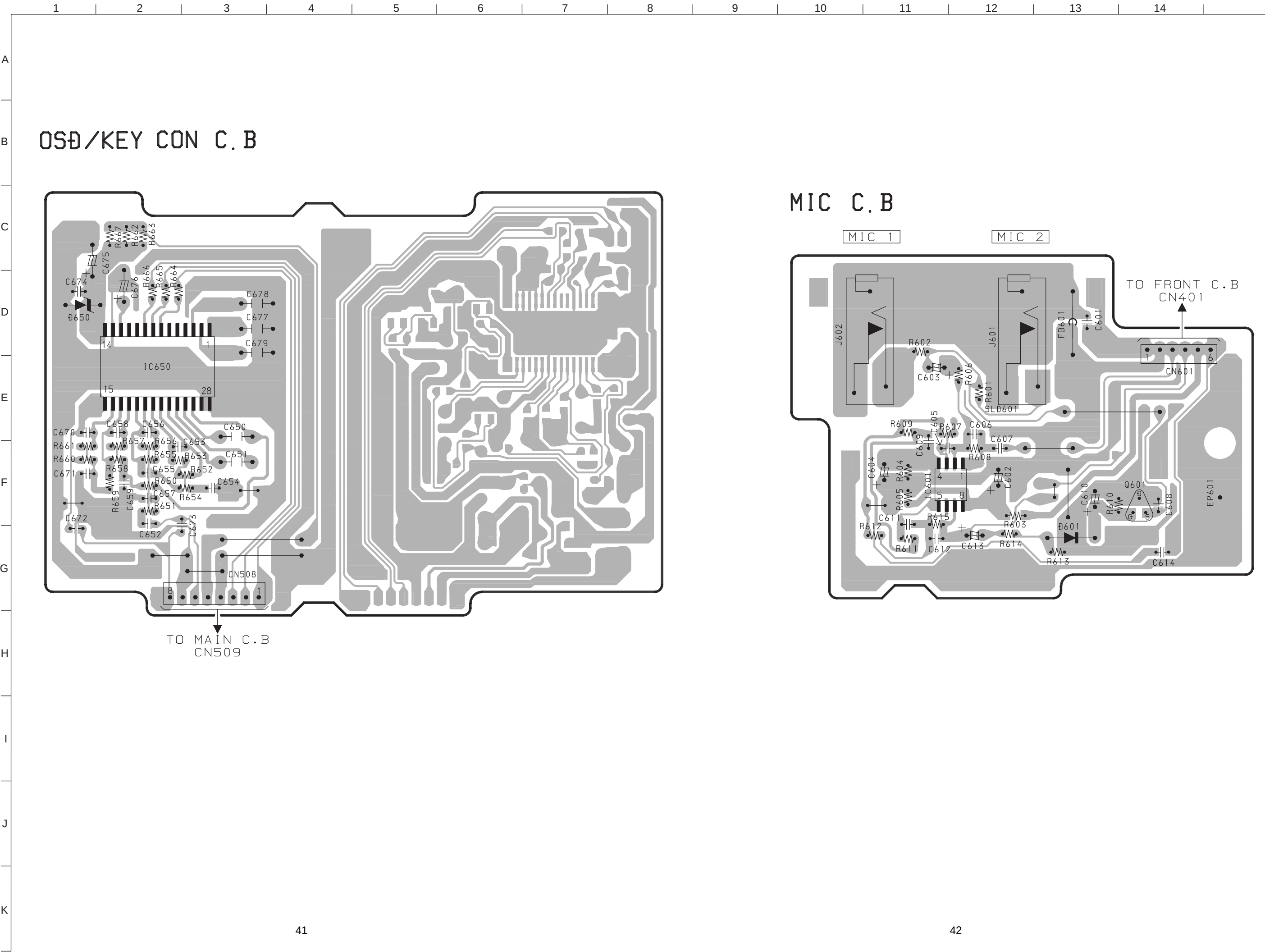


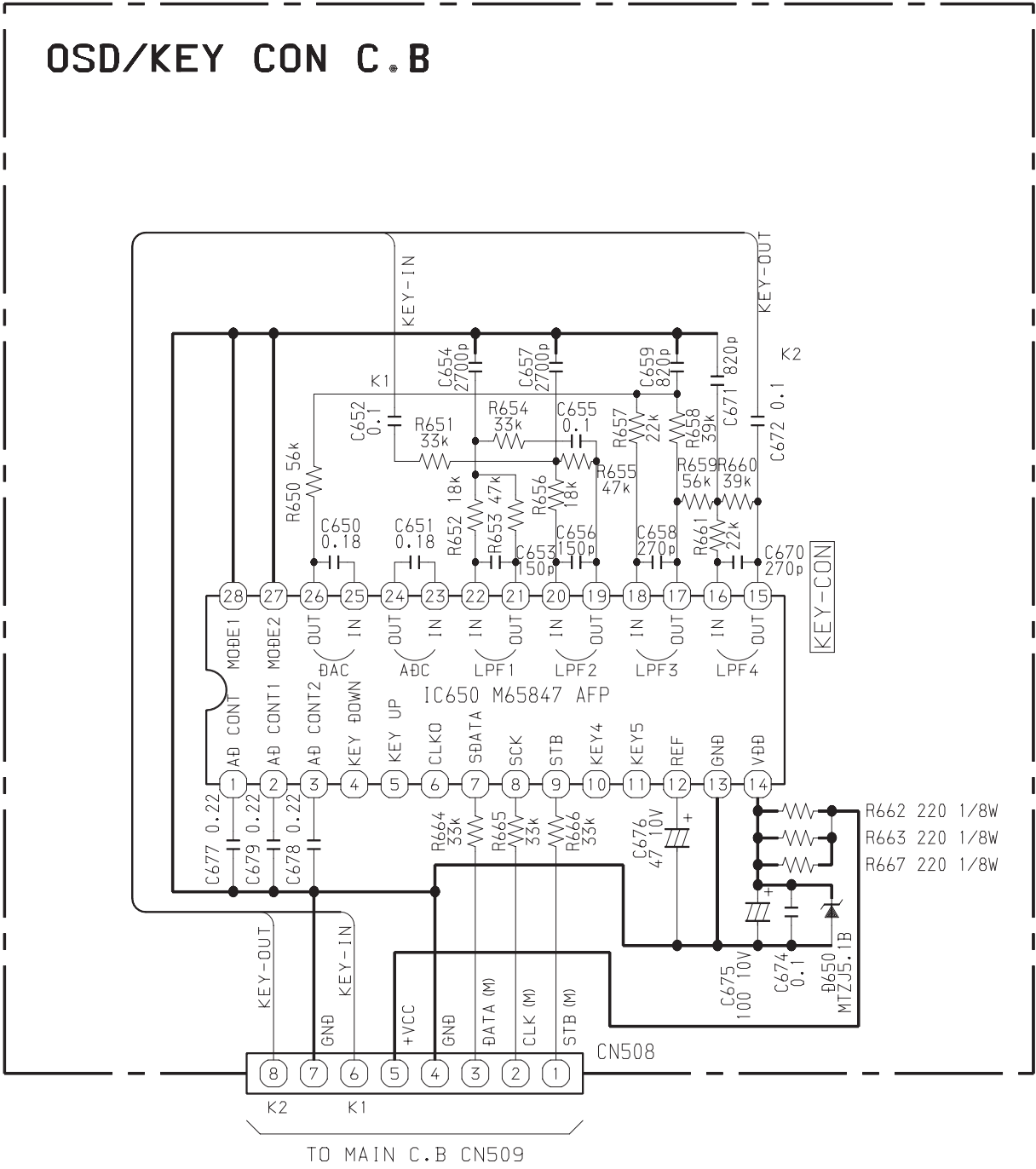
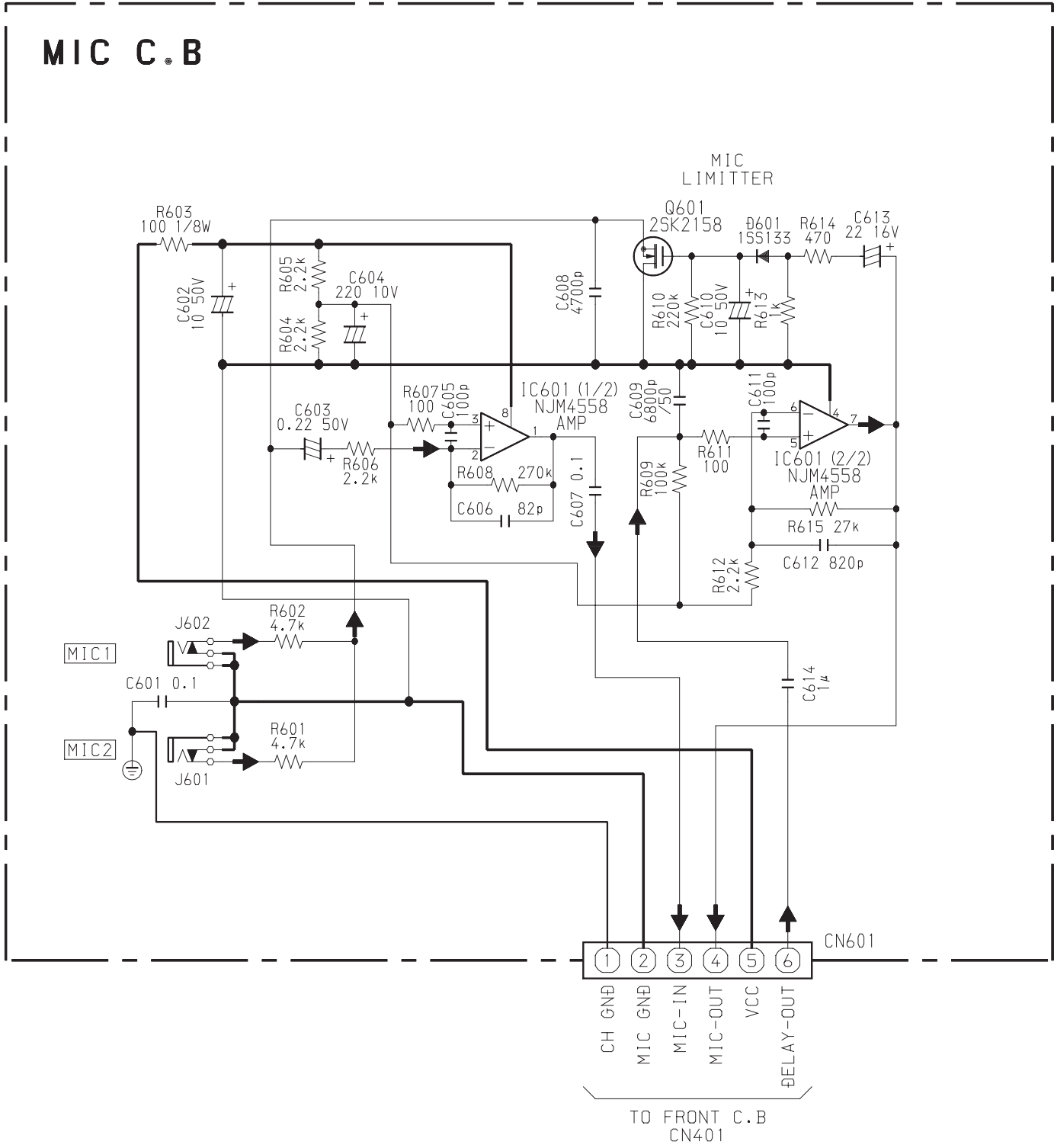




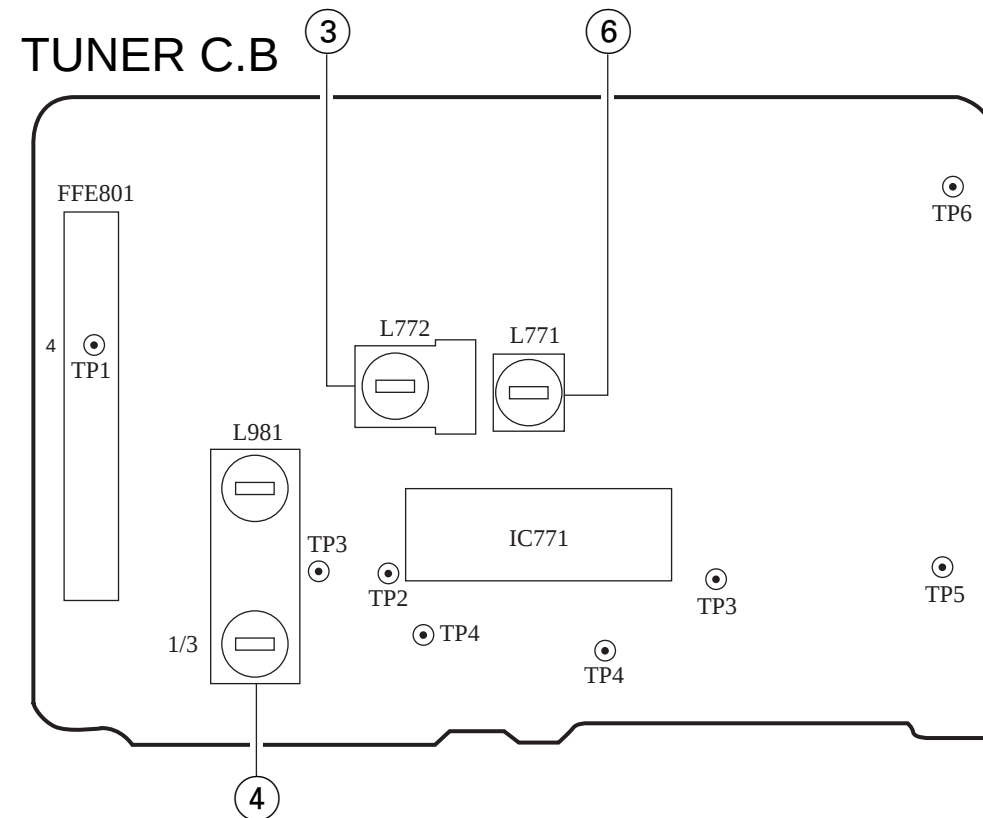








ELECTRICAL ADJUSTMENT



< 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)

Less than 60dB (at 600kHz)

Less than 58dB

(at 1000/1400kHz)

More than 36dB

(at 1000kHz)

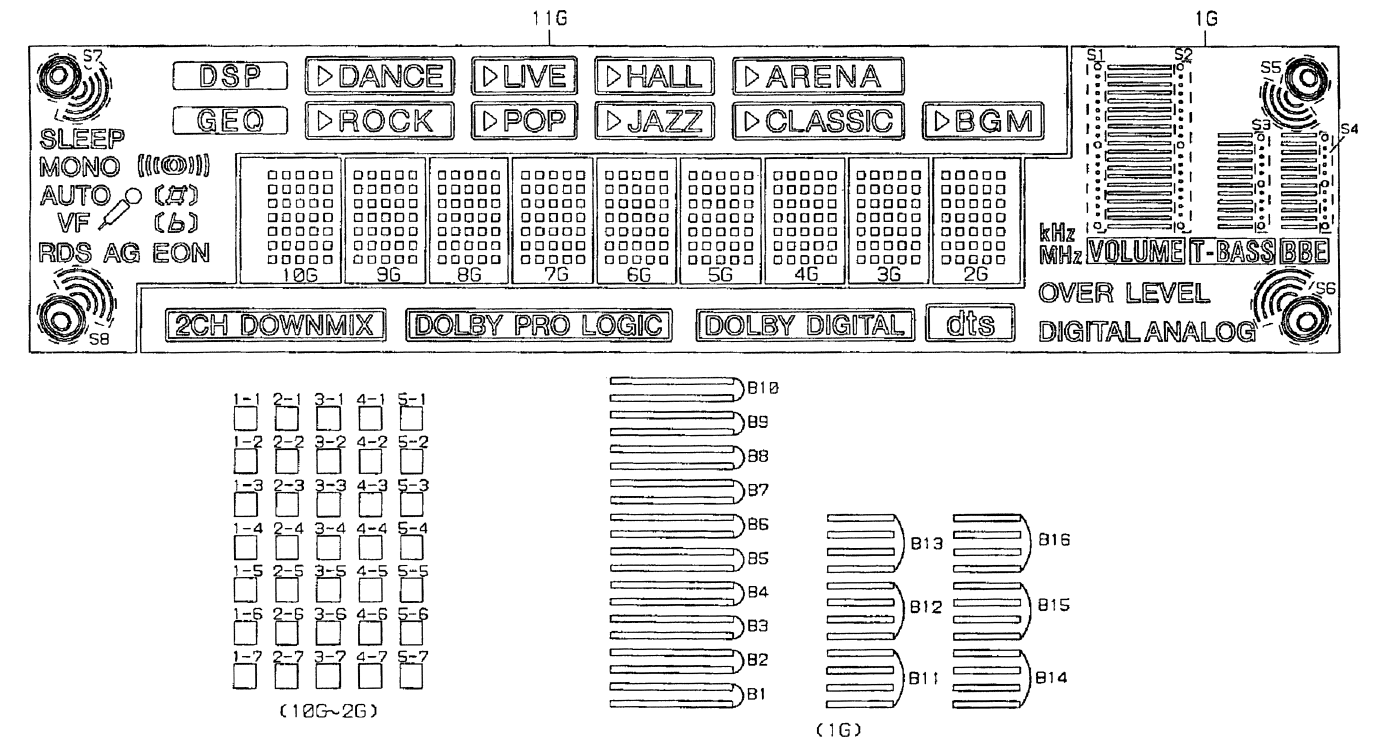
Less than 1.5%

(at 1000kHz)

450kHz

FL (BJ691GK) GRID ASSIGNMENT/ANODE CONNECTION

GRID ASSIGNMENT

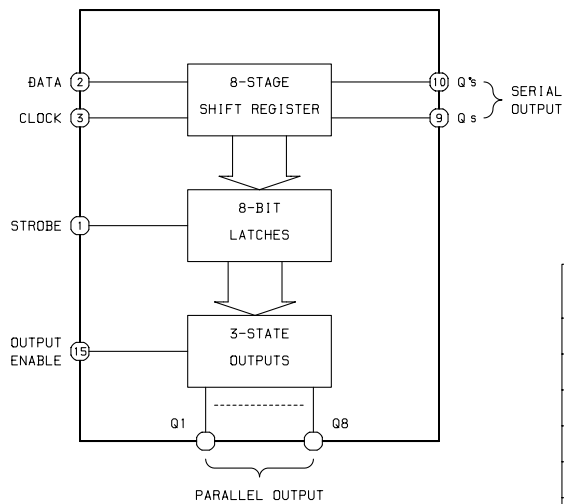


ANODE CONNECTION

[illegible]

IC BLOCK DIAGRAM

IC, BU4094BCF



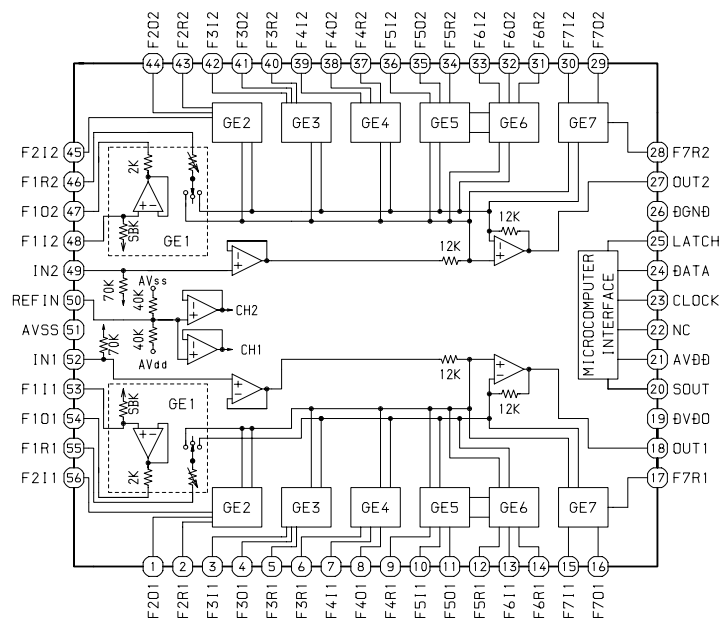
TRUTH TABLE

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

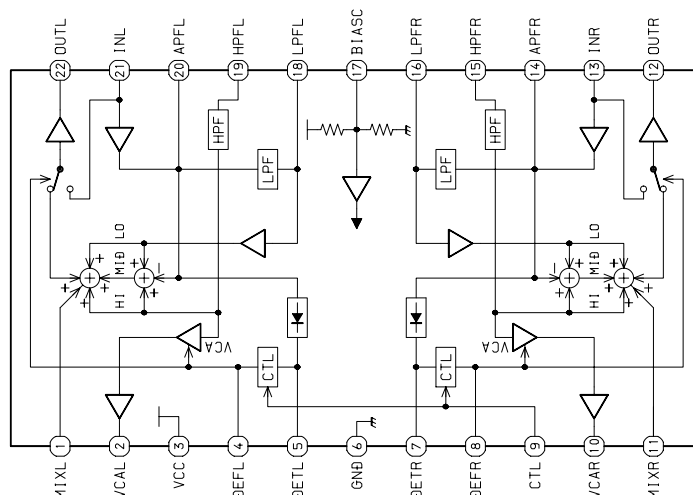
Z=High Impedance

X=Don't Care

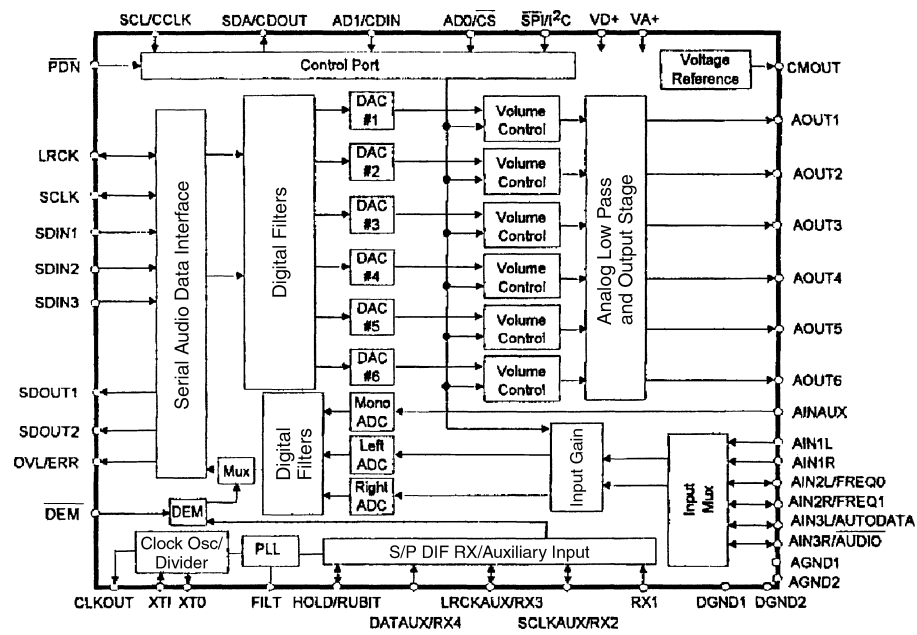
IC, M62431FP



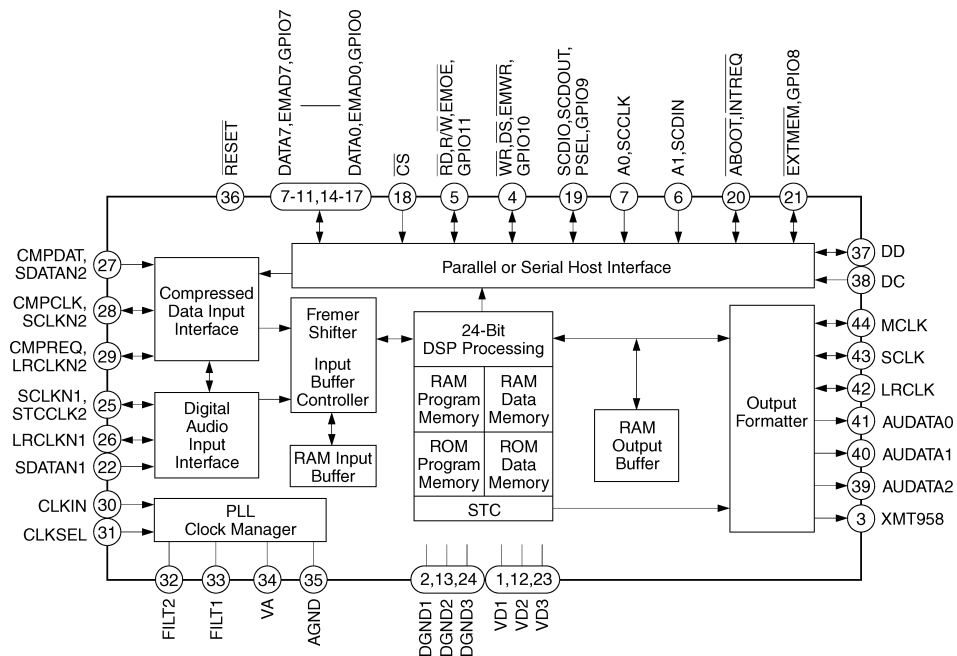
IC, BA3880S



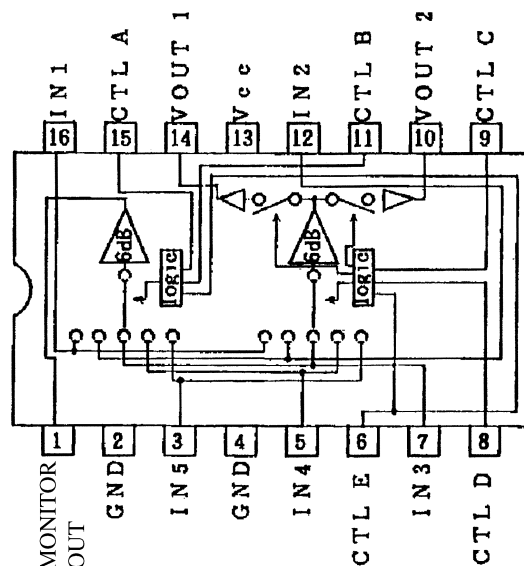
IC, CS4226



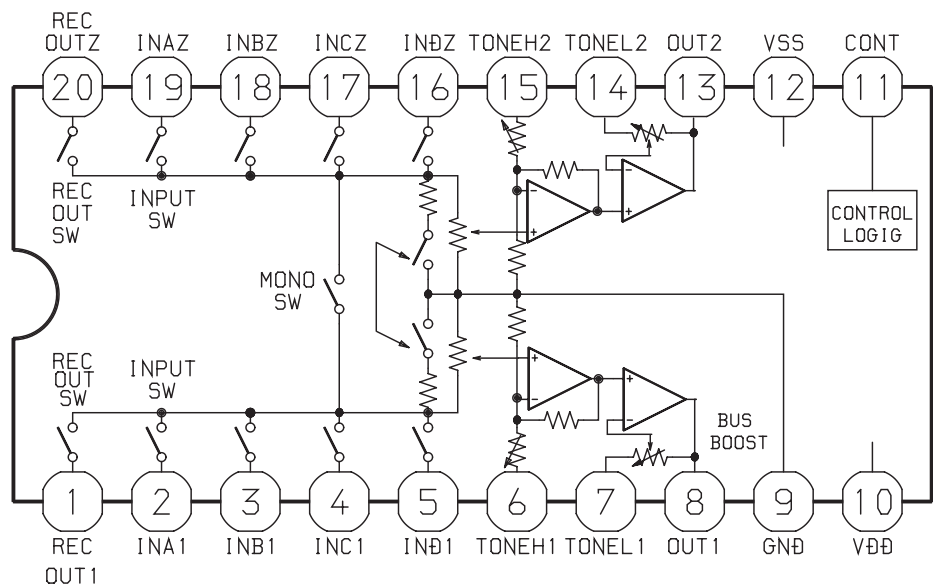
IC, CS4926



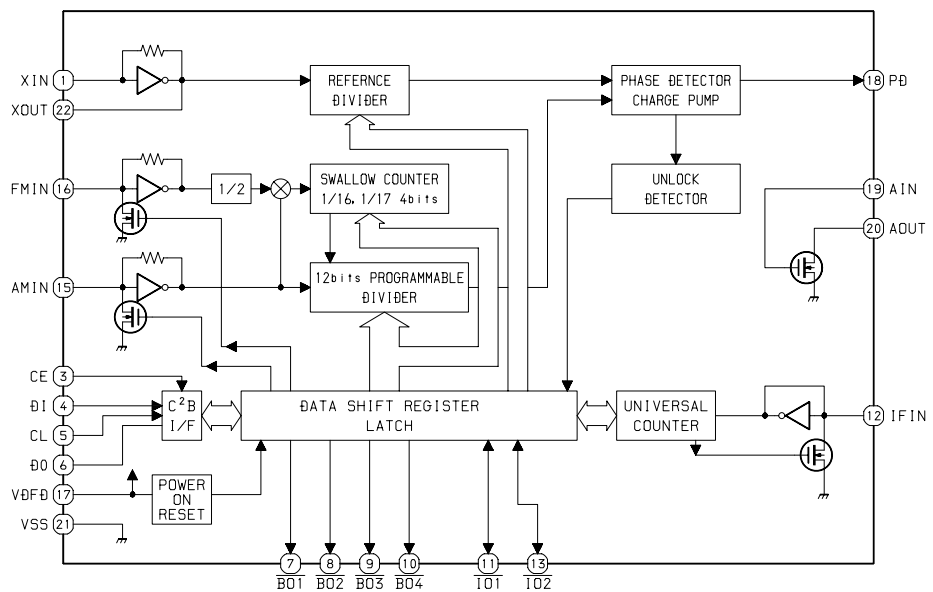
IC, BA7625



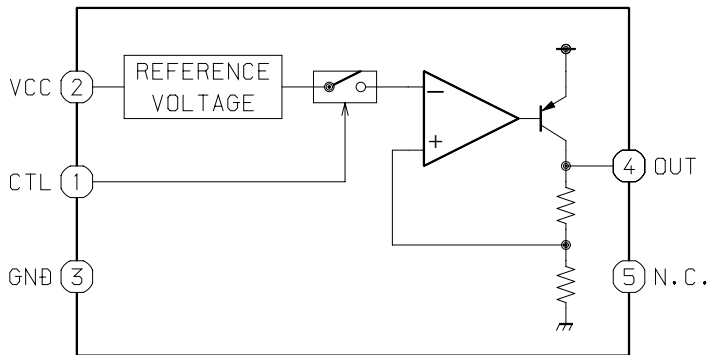
IC, M62439SP



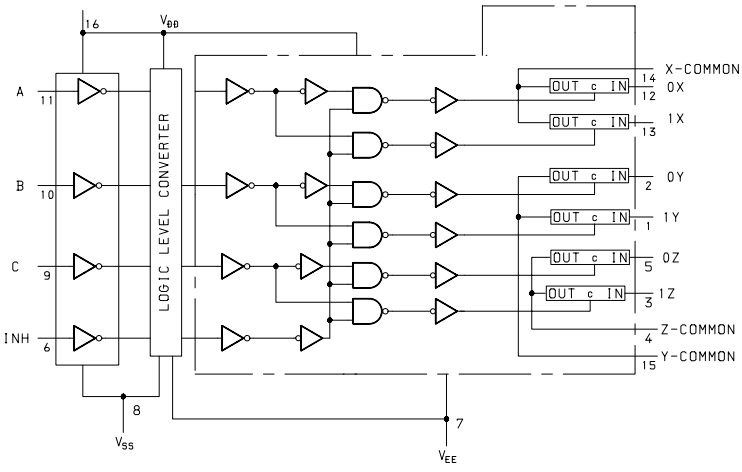
IC, LC72131D



IC, BA033ST



IC, TC4053BF



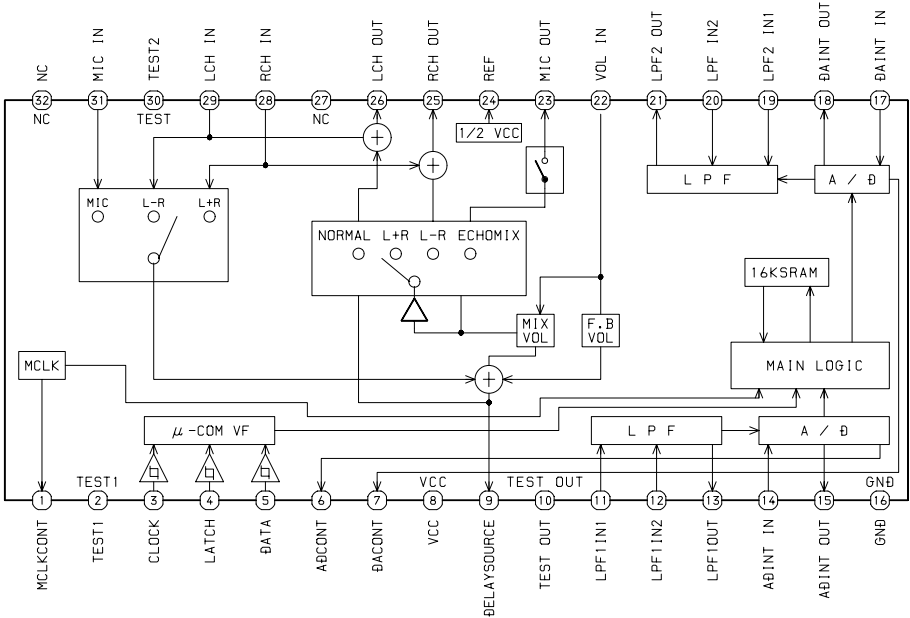
CONTROL C	Impedance Between IN-OUT*
H	$0.5 \sim 5 \times 10^2 \Omega$
L	$> 10^9 \Omega$

* See Electrical Characteristics

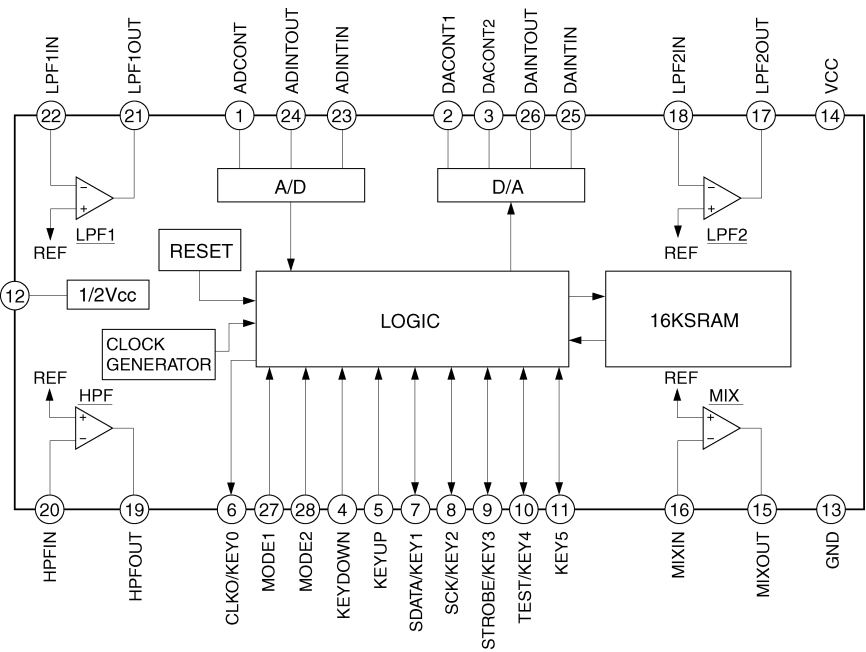
CONTROL INPUTS			
INHIBIT	C $\triangle$	B	A
L	L	L	L
L	L	L	H
L	L	H	L
L	L	H	H
L	H	L	L
L	H	L	H
L	H	H	L
L	H	H	H
H	$\otimes$	$\otimes$	$\otimes$

$\otimes$: DON'T CARE $\triangle$: Expect TC4052B

IC, M65849BFP631D



IC, M65847AFP

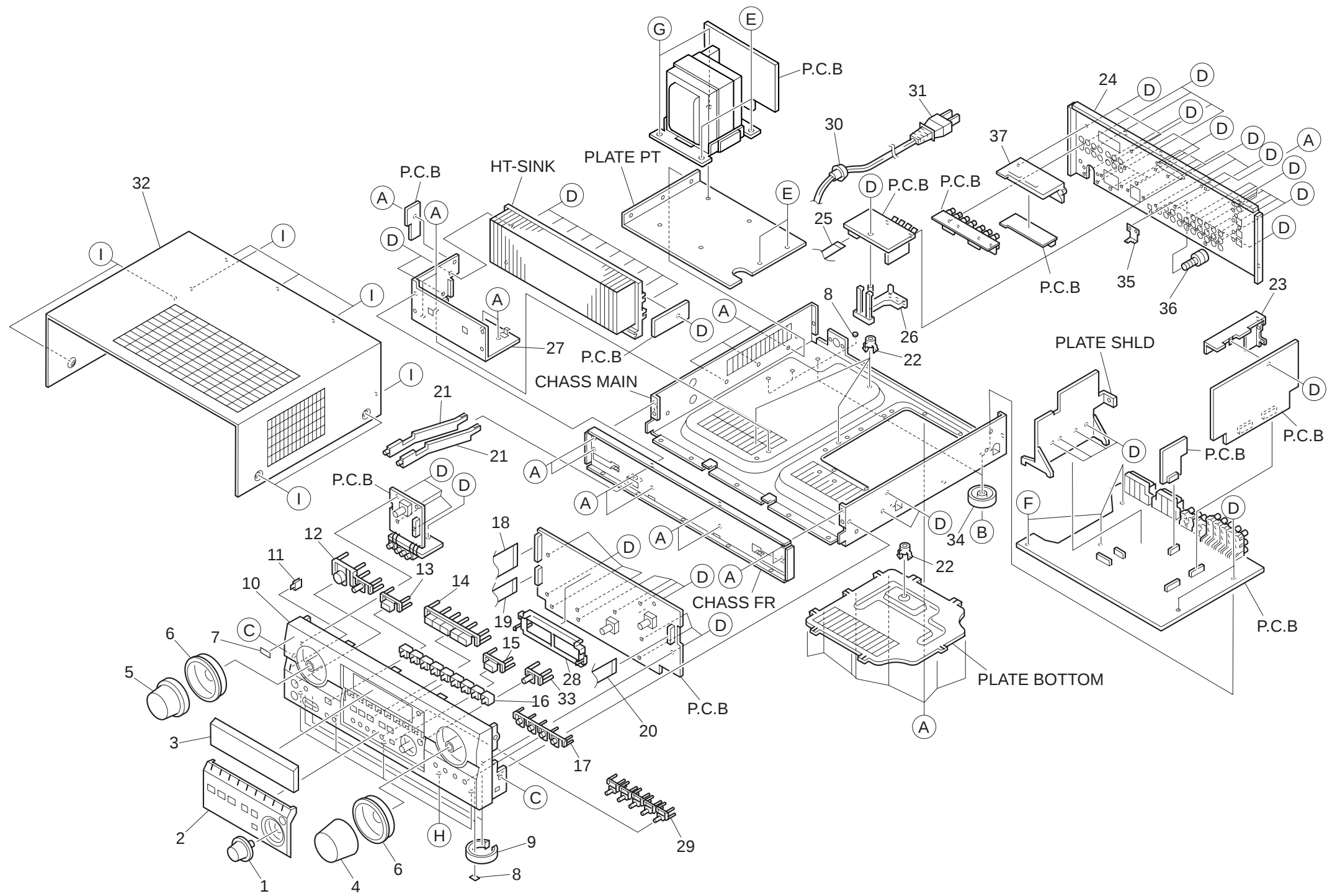


IC DESCRIPTION

IC, UPD780228GF

Pin No.	Pin Name	I/O	Description
1	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 TUNE/IFC detection input.
5	O-STB (M)	O	Sound CTRL, KEYCON strobe output.
6	O-MUTE	O	System mute ON/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. 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	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	ADO/CS	O	CODEC IC (CS4226) control. CS output.
28	I-RDS-CLK	I	RDS clock input (external interrupt).
29	I-RDS-DATA	I	RDS data input.
30	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	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	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/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/I-STEREO	I/O	FL segment output (P14). Turner/stereo detection input (stereo at “L”).
75	P13/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-AR1-032-010		PANEL,FR H	27	8Z-AR1-205-010		HLDR,HT-SINK
3	8Z-AR1-014-010		WINDOW,DISPLAY	28	88-NF6-205-010		GUIDE,FL 40-150- 9
4	8Z-AR1-011-010		KNOB,RTRY VOL	29	8Z-AR1-009-010		KEY,MIC
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-AR1-021-110		FOOT,REAR
10	8Z-AR2-007-010		CABI,FR HC	35	8Z-AR1-210-010		HLDR,PT PWB
11	8Z-AR1-016-010		REFLECTOR,ECO	36	87-033-209-010		TERMINAL, EARTH
12	8Z-AR1-004-010		KEY,POWER	37	88-AR1-211-110		HLDR,AC SW
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	87-067-641-010		UTT2+3-8(W/O SLOT)BL
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	87-067-975-010		S-SCREW,IT+4-8
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	F	87-067-632-010		TAPPING SCREW, BVT2+3-15
20	8Z-AR2-604-010		FF-CABLE, 14P 1.25 340MM	G	87-078-191-010		S-SCREW,IT+4-10
21	8Z-AR1-010-010		BTN,SP	H	87-067-761-010		TAPPING SCREW, BVT2+3-10
22	88-AR1-218-010		HLDR,PWB H8.9	I	87-067-689-010		TAPPING SCREW, BVTT+3-8
23	8Z-AR1-219-010		HLDR,PWB PRO				
24	8Z-AR2-004-010		PANEL,REAR HCBNM				
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		

