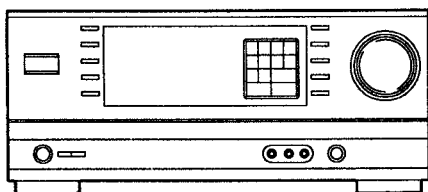


aiwa



AV-DV500



STEREO RECEIVER

• TYPE: U,HE

SERVICE MANUAL

SPECIFICATIONS

<FM tuner section>

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

<AM tuner section>

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

<Amplifier section>

Power output **[Stereo mode]**
Front
 U : 75 watts per channel, Min.
 RMS at 4 or 8 ohms, from 40 Hz to 20 kHz, with no more than 0.9% Total Harmonic Distortion
 HE : Rated : 85W + 85W (8 ohms, T.H.D. 1%, 1 kHz)
 Reference : 100W + 100W (8 ohms, T.H.D. 10%, 1 kHz)
[Dolby Pro Logic or 5 CH Surround mode]
Front
 U : 70 watts per channel, Min.
 RMS at 4 or 8 ohms, from 40 Hz to 20 kHz, with no more than 0.9% Total Harmonic Distortion
 HE : Rated : 65W + 65W (8 ohms, T.H.D. 1%, 1 kHz)
 Reference : 75W + 75W (8 ohms, T.H.D. 10%, 1 kHz)
Rear (Surround)
 U : 70 watts per channel, Min.
 RMS at 8 ohms, 1kHz, with no more than 0.9% Total Harmonic Distortion
 HE : Rated : 65W + 65W (8 ohms, T.H.D. 1%, 1 kHz)
 Reference : 75W + 75W (8 ohms, T.H.D. 10%, 1 kHz)
Center
 U : 70 watts, Min. RMS at 4 or 8 ohms, 1kHz, with no more than 0.9% Total Harmonic Distortion
 HE : Rated : 65W (8 ohms, T.H.D. 1%, 1 kHz)
 Reference : 75W (8 ohms, T.H.D. 10%, 1 kHz)
Total Harmonic distortion 0.09 % (60 W, 1 kHz, 8 ohms, Front)

Inputs

AUDIO IN
 PHONO : 2.8mV (50 kohms)
 CD : 370 mV (50 kohms) (U)
 CD : 400 mV (50 kohms) (HE)
 TAPE MONITOR : 200 mV (25 kohms) (U)
 TAPE MONITOR : 400 mV (25 kohms) (HE)
 VIDEO 1, VIDEO 2/LD/MD, VIDEO 3, AUX/TV : 400 mV (50 kohms)
 SURROUND IN : 400 mV (50 kohms)
 CENTER : 400 mV (50 kohms)
 VIDEO IN : 1Vp-p (75 ohms)
 MIC 1, MIC 2 : 1mV (20 kohms)

Outputs

AUDIO OUT (REC OUT) : 230mV (2 kohms) (U)
AUDIO OUT (REC OUT) : 250mV (2 kohms) (HE)
VIDEO OUT (MONITOR) :
 1 Vp-p (75 ohms)
SUPER WOOFER : 3.1 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 SPEAKERS 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

U : 120 V AC, 60 Hz
 HE : 120 V/220-230/240 V AC, switchable, 50/60 Hz

Power consumption

U : 180 W
 HE : 200 W

Dimensions

(W x H x D)

Weight

360 x 153.5 x 341 mm
 (14 $\frac{1}{4}$ x 6 $\frac{1}{8}$ x 13 $\frac{1}{2}$ in.)
 U : 8.9 kg (19 lb 10 oz.)
 HE : 10.2 kg

• Design and specifications are subject to change without notice.

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• Manufactured under license from Dolby Laboratories Licensing Corporation.

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ELECTRICAL MAIN PARTS LIST

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				87-017-931-080			ZENER,MTZJ5.6B<HE>
	87-A20-514-010		C-IC,M62460FP	87-A40-246-080			DIODE,1N4148 T-72
	87-A20-107-010		IC,BA3836<HE>	87-A40-270-080			C-DIODE,MC2838
	87-A20-068-040		C-IC,M65847FP<HE>	87-A40-438-080			ZENER,MTZJ4.7A
	87-017-022-080		IC,NJM2068M-D(T1)<HE>	87-001-731-080			ZENER,HZS6C2L
	87-001-222-080		IC,NJU4051BM				
	87-002-779-010		IC,LA7956	87-A40-291-080			DIODE,1N4148 (CPT)
	87-017-917-080		IC,BU4066BCF	87-A40-274-010			DIODE,FMB-G16L
	87-A20-056-010		IC,BA3880S	87-070-136-080			ZENER,MTZJ5.1B
	87-017-726-080		IC,BU4052 BCF				
	87-070-127-110		IC,LC72131 D	MAIN C.B			
	87-017-714-110		IC,LA1836L	C102	87-012-368-080		C-CAP,S 0.1-50 F
	87-AR3-600-010		C-IC,LC866440W-5G16	C103	87-012-368-080		C-CAP,S 0.1-50 F
	87-070-083-010		IC,GP1U281X	C104	87-012-368-080		C-CAP,S 0.1-50 F
	87-017-915-080		IC,BU4094BCF	C105	87-012-368-080		C-CAP,S 0.1-50 F
	87-070-205-010		IC,TC9299P	C106	87-012-368-080		C-CAP,S 0.1-50 F
	87-020-784-080		IC,TC4053BF	C107	87-012-368-080		C-CAP,S 0.1-50 F
	87-017-888-080		IC,NJM4558MD	C108	87-A10-461-090		CAP,E 6800-71 SMG VB
	87-A20-069-040		C-IC,BA3842F	C109	87-A10-461-090		CAP,E 6800-71 SMG VB
TRANSISTOR				C110	87-A10-056-090		CAP,E 4700-35
	89-213-702-010		TR,2SB1370E(1.8W)	C111	87-A10-056-090		CAP,E 4700-35
	89-332-665-080		TR,2SC3266GR (0.75W)	C113	87-010-112-080		CAP,E 100-16 SME
	87-026-610-080		TR,KTC3198GR	C114	87-012-368-080		C-CAP,S 0.1-50 F<HE>
	87-026-230-080		CHIP-TR,DTA114YK	C115	87-012-368-080		C-CAP,S 0.1-50 F<HE>
	87-026-236-080		TR,DTC124EK	C116	87-012-368-080		C-CAP,S 0.1-50 F<HE>
	87-A30-132-070		TR,2SC2235Y	C117	87-012-368-080		C-CAP,S 0.1-50 F<HE>
	87-A30-087-080		C-FET,2SK2158<HE>	C123	87-010-260-080		CAP, ELECT 47-25V
	89-421-141-280		C-TR,2SD2114K,UV	C124	87-010-403-080		CAP, ELECT 3.3-50V
	87-026-232-080		TR,DTA144WK	C201	87-010-405-080		CAP, ELECT 10-50
	89-327-143-080		TR,2SC2714(O)(0.1W)	C202	87-010-405-080		CAP, ELECT 10-50
	87-026-214-080		TR,DTA114YS (0.3W)	C205	87-015-629-080		CHIP CAPACITOR, 0.0022
	89-110-155-080		TR,2SA1015GR<U>	C206	87-010-179-080		CAP,CHIP S B1200P
	89-505-434-540		C-FET,2SK543(4/5)	C207	87-010-406-080		CAP, ELECT 22-50
	89-324-122-080		TR,2SC2412K	C208	87-010-406-080		CAP, ELECT 22-50
	87-A30-066-080		TR,2SA1175FE	C209	87-010-406-080		CAP, ELECT 22-50
	87-026-263-080		C-TR,RN1410	C210	87-010-406-080		CAP, ELECT 22-50
	87-026-238-080		TR,DTC144WK	C211	87-010-179-080		CAP,CHIP S B1200P
	87-026-580-080		C-TR,DTA123JK	C212	87-010-179-080		CAP,CHIP S B1200P
	87-A30-047-080		TR,CSD655E	C213	87-010-260-080		CAP, ELECT 47-25V
	89-109-521-080		TR,2SA952 (0.6W)	C214	87-010-260-080		CAP, ELECT 47-25V
	87-A30-086-070		C-TR,CSD1306E	C215	87-012-358-080		C-CAP,S 0.47-10 F Z
	87-A30-106-070		C-TR,CMBT5551	C217	87-010-247-080		CAP, ELECT 100-50V
	89-110-372-080		TR,2SA1037Y(140MHZ 200MW)	C218	87-012-368-080		C-CAP,S 0.1-50 F
	87-A30-076-080		C-TR,2SC3052F	C220	87-010-247-080		CAP, ELECT 100-50V
	87-A30-075-080		C-TR,2SA1235F	C223	87-015-835-080		C-CAP,0.047 D
	87-A30-111-080		TR,C2N5401	C225	87-A10-516-080		C-CAP,S 100P-200 J CH
	87-A30-097-010		TR,FN 1016	C226	87-A10-516-080		C-CAP,S 100P-200 J CH
	87-A30-098-010		TR,FP 1016	C229	87-016-462-080		C-CAP,S 1-16 F
	87-A30-089-010		FET,2SK2723	C230	87-016-462-080		C-CAP,S 1-16 F
	87-A30-072-080		C-TR,RT1P 144C	C231	87-016-462-080		C-CAP,S 1-16 F
	87-A30-073-080		C-TR,RT1N 141C	C232	87-016-462-080		C-CAP,S 1-16 F
	89-503-685-080		C-FET 2SK 368GR	C239	87-010-305-080		C-CAP 470P-50CH
DIODE				C240	87-010-305-080		C-CAP 470P-50CH
	87-A40-002-080		ZENER,MTZJ5.1C	C241	87-010-178-080		CHIP CAP 1000P
	87-017-437-080		DIODE,1N4148M	C242	87-018-131-080		CAP, CER 1000P-50V
	87-A40-115-060		DIODE,RS603M	C301	87-010-405-080		CAP, ELECT 10-50V
	87-027-686-080		ZENER,HZ12A1	C302	87-010-405-080		CAP, ELECT 10-50V
	87-A40-224-010		DIODE,GBU8DL	C305	87-010-179-080		CAP,CHIP S B1200P
	87-070-136-080		ZENER,MTZJ5.1B	C306	87-010-179-080		CAP,CHIP S B1200P
	87-070-274-080		DIODE,1N4003 SEM	C307	87-010-406-080		CAP, ELECT 22-50
	87-A40-269-080		C-DIODE,MC2836	C308	87-010-406-080		CAP, ELECT 22-50
	87-017-436-080		ZENER,UZ4.7BSA	C309	87-010-406-080		CAP, ELECT 22-50
	87-A40-345-080		ZENER,MTZJ10C	C310	87-010-406-080		CAP, ELECT 22-50
	87-A40-199-080		ZENER,UZL6H2	C311	87-010-179-080		CAP,CHIP S B1200P
	87-A40-336-080		ZENER,MTZJ27D	C312	87-010-179-080		CAP,CHIP S B1200P
				C313	87-010-260-080		CAP, ELECT 47-25V
				C314	87-010-260-080		CAP, ELECT 47-25V
				C315	87-012-358-080		C-CAP,S 0.47-10 F Z
				C316	87-010-408-080		CAP,E 47-50SME

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C317	87-010-247-080		CAP, ELECT 100-50V	C532	87-010-196-080		CHIP CAPACITOR,0.1-25
C318	87-012-368-080		C-CAP,S 0.1-50 F	C533	87-010-196-080		CHIP CAPACITOR,0.1-25
C320	87-010-247-080		CAP, ELECT 100-50V	C534	87-010-196-080		CHIP CAPACITOR,0.1-25
C323	87-010-194-080		CAP, CHIP 0.047	C541	87-010-196-080		CHIP CAPACITOR,0.1-25
C325	87-A10-516-080		C-CAP,S 100P-200 J CH	C549	87-010-196-080		CHIP CAPACITOR,0.1-25
C326	87-A10-516-080		C-CAP,S 100P-200 J CH	C551	87-010-406-080		CAP, ELECT 22-50
C329	87-010-805-080		C-CAP,S 1-16 ZF	C552	87-010-406-080		CAP, ELECT 22-50
C330	87-010-805-080		C-CAP,S 1-16 ZF	C553	87-010-406-080		CAP, ELECT 22-50
C331	87-010-805-080		C-CAP,S 1-16 ZF	C554	87-010-406-080		CAP, ELECT 22-50
C332	87-010-805-080		C-CAP,S 1-16 ZF	C555	87-010-406-080		CAP, ELECT 22-50
C339	87-012-140-080		CAP 470P	C556	87-010-196-080		CHIP CAPACITOR,0.1-25
C340	87-012-140-080		CAP 470P	C557	87-010-196-080		CHIP CAPACITOR,0.1-25
C341	87-010-178-080		CHIP CAP 1000P	C558	87-010-384-080		CAP, ELECT 100-25V
C342	87-010-178-080		CHIP CAP 1000P	C559	87-010-371-080		CAP, ELECT 470-6.3V
C345	87-010-408-080		CAP,E 47-50SME	C560	87-010-371-080		CAP, ELECT 470-6.3V
C402	87-010-405-080		CAP, ELECT 10-50V<HE>	C561	87-010-371-080		CAP, ELECT 470-6.3V
C403	87-010-405-080		CAP, ELECT 10-50V<HE>	C604	87-010-196-080		CHIP CAPACITOR,0.1-25
C404	87-010-402-080		CAP, ELECT 2.2-50V<HE>	C605	87-010-196-080		CHIP CAPACITOR,0.1-25
C405	87-010-402-080		CAP, ELECT 2.2-50V<HE>	C621	87-010-196-080		CHIP CAPACITOR,0.1-25
C406	87-010-263-080		CAP, ELECT 100-10V<HE>	C631	87-010-322-080		C-CAP,S 100P-50 CH
C407	87-010-196-080		CHIP CAPACITOR,0.1-25<HE>	C632	87-018-209-080		CAP, CER 0.1-50V
C408	87-010-382-080		CAP, ELECT 22-25V<HE>	C641	87-010-405-080		CAP, ELECT 10-50V
C409	87-010-194-080		CAP, CHIP 0.047<HE>	C642	87-010-405-080		CAP, ELECT 10-50V
C410	87-016-492-080		C-CAP,S 0.33-16 FZ<HE>	C643	87-012-140-080		C-CAP,S 470P-50 CH<HE>
C411	87-010-545-080		CAP, ELECT 0.22-50V<HE>	C643	87-012-154-080		C-CAP,S 150P-50 CH<U>
C412	87-010-194-080		CAP, CHIP 0.047<HE>	C644	87-012-140-080		C-CAP,S 470P-50 CH<HE>
C413	87-010-196-080		CHIP CAPACITOR,0.1-25<HE>	C644	87-012-154-080		C-CAP,S 150P-50 CH<U>
C420	87-010-260-080		CAP, ELECT 47-25V<HE>	C645	87-010-197-080		CAP, CHIP 0.01 DM
C421	87-010-263-080		CAP, ELECT 100-10V<HE>	C646	87-010-197-080		CAP, CHIP 0.01 DM
C422	87-010-196-080		CHIP CAPACITOR,0.1-25<HE>	C647	87-010-195-080		C-CAP,S 0.068-25 F
C423	87-A10-060-080		C-CAP,S 0.18-16 K B<HE>	C648	87-010-195-080		C-CAP,S 0.068-25 F
C424	87-A10-060-080		C-CAP,S 0.18-16 K B<HE>	C649	87-010-260-080		CAP, ELECT 47-25V
C425	87-012-156-080		C-CAP,S 220P-50 CH<HE>	C651	87-010-378-080		CAP,ELECT 10P-16V<U>
C426	87-012-156-080		C-CAP,S 220P-50 CH<HE>	C652	87-010-378-080		CAP,ELECT 10P-16V<U>
C427	87-012-145-080		CAP, CHIP S 270P CH<HE>	C661	87-012-140-080		CAP 470P
C428	87-012-145-080		CAP, CHIP S 270P CH<HE>	C662	87-018-127-080		CAP, CER 470P-50V
C429	87-010-196-080		CHIP CAPACITOR,0.1-25<HE>	C663	87-010-188-080		CAP,CHIP 6800P
C430	87-010-177-080		CHIP CAPACITOR 820P-50 SL<HE>	C664	87-010-188-080		CAP,CHIP 6800P
C431	87-010-177-080		C-CAP,S 820P-50 SL<HE>	C665	87-010-101-080		CAP, ELECT 220-16
C432	87-010-183-080		C-CAP,S 2700P-50 B<HE>	C666	87-010-404-080		CAP, ELECT 4.7-50V
C434	87-010-196-080		CHIP CAPACITOR,0.1-25<HE>	C667	87-010-404-080		CAP, ELECT 4.7-50V
C435	87-010-183-080		C-CAP,S 2700P-50 B<HE>	C668	87-010-404-080		CAP, ELECT 4.7-50V
C436	87-010-314-080		C-CAP,S 22P-50V<HE>	C669	87-010-404-080		CAP, ELECT 4.7-50V
C437	87-010-314-080		C-CAP,S 22P-50V<HE>	C670	87-010-404-080		CAP, ELECT 4.7-50V
C451	87-010-186-080		CAP,CHIP 4700P<HE>	C671	87-010-196-080		CHIP CAPACITOR,0.1-25
C452	87-010-321-080		CHIP CAPACITOR,82P(J)<HE>	C672	87-010-196-080		CHIP CAPACITOR,0.1-25
C453	87-010-260-080		CAP, ELECT 47-25V<HE>	C700	87-018-131-080		CAP, TC-U 100P-50V
C454	87-018-209-080		CAP, CER 0.1-50V<HE>	C701	87-010-404-080		CAP, ELECT 4.7-50V
C455	87-010-177-080		C-CAP,S 820P-50 SL<HE>	C702	87-010-197-080		CAP, CHIP 0.01 DM
C456	87-010-401-080		CAP, ELECT 1-50V<HE>	C703	87-010-197-080		CAP, CHIP 0.01 DM
C457	87-010-260-080		CAP, ELECT 47-25V<HE>	C704	87-018-131-080		CAP, CER 1000P-50V
C458	87-018-209-080		CAP, CER 0.1-50V<HE>	C707	87-010-546-080		CAP, ELECT 0.33-50V
C459	87-010-405-080		CAP, ELECT 10-50V<HE>	C708	87-010-546-080		CAP, ELECT 0.33-50V
C460	87-010-545-080		CAP, ELECT 0.22-50V<HE>	C711	87-010-263-080		CAP, ELECT 100-10V
C463	87-010-196-080		CHIP CAPACITOR,0.1-25<HE>	C712	87-010-112-080		CAP, ELECT 100-16V
C465	87-018-133-080		CAPACITOR,CER 4700P-16V<HE>	C722	87-010-152-080		C-CAP,S 8P-50 CH
C470	87-010-183-080		C-CAP,S 2700P-50 B<HE>	C723	87-010-178-080		CHIP CAP 1000P
C501	87-010-404-080		CAP, ELECT 4.7-50V	C725	87-010-178-080		CHIP CAP 1000P
C502	87-010-404-080		CAP, ELECT 4.7-50V	C727	87-010-196-080		CHIP CAPACITOR,0.1-25
C503	87-012-157-080		C-CAP,S 330P-50 CH	C728	87-010-248-080		CAP, ELECT 220-10V
C504	87-012-157-080		C-CAP,S 330P-50 CH	C729	87-018-134-080		CAPACITOR,TC-U 0.01-16
C511	87-010-404-080		CAP, ELECT 4.7-50V	C731	87-012-153-080		C-CAP,S 120P-50 CH
C512	87-010-404-080		CAP, ELECT 4.7-50V	C732	87-012-155-080		C-CAP 180P-50CH
C513	87-010-260-080		CAP, ELECT 47-25V	C733	87-012-155-080		C-CAP 180P-50CH
C514	87-010-260-080		CAP, ELECT 47-25V	C771	87-010-405-080		CAP, ELECT 10-50V
C515	87-010-370-080		CAP,E 330-6.3 SME	C772	87-010-194-080		CAP, CHIP 0.047
C516	87-010-370-080		CAP,E 330-6.3 SME	C774	87-010-263-080		CAP, ELECT 100-10V
C525	87-010-184-080		CHIP CAPACITOR 3300P(K)	C775	87-010-405-080		CAP, ELECT 10-50V
C526	87-010-184-080		CHIP CAPACITOR 3300P(K)	C776	87-010-197-080		CAP, CHIP 0.01 DM
C531	87-010-196-080		CHIP CAPACITOR,0.1-25	C777	87-010-400-080		CAP, ELECT 0.47-50V

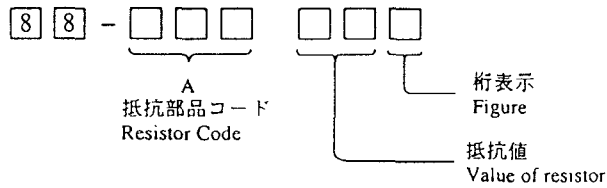
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C778	87-010-401-080		CAP, ELECT 1-50V	△ PR301	87-026-691-080		FUSE, 10A 125V 251<U>
C779	87-010-401-080		CAP, ELECT 1-50V	△ PR302	87-026-682-080		PROTECTOR, 10A 60V491<HE>
C780	87-010-197-080		CAP, CHIP 0.01 DM	△ PR302	87-026-691-080		FUSE, 10A 125V 251<U>
C789	87-010-369-080		C-CAP,S 0.033-25 K B<HE>	R229	87-022-184-080		RES,METAL 0.33-1W
C789	87-010-596-080		C-CAP,S 0.047-16<U>	R230	87-022-184-080		RES,METAL 0.33-1W
C790	87-010-369-080		C-CAP,S 0.033-25 K B<HE>	R231	87-022-184-080		RES,METAL 0.33-1W
C790	87-010-596-080		C-CAP,S 0.047-16<U>	R232	87-022-184-080		RES,METAL 0.33-1W
C791	87-010-401-080		CAP, ELECT 1-50V	R295	87-A00-126-080		RES M/F 220-1/WJ VIP
C792	87-010-180-080		C-CER 1500P	R296	87-A00-126-080		RES M/F 220-1/WJ VIP
C793	87-010-189-080		C-CAP,S 8200P-50 B	R297	87-A00-126-080		RES M/F 220-1/WJ VIP
C794	87-010-260-080		CAP, ELECT 47-25V	R298	87-A00-126-080		RES M/F 220-1/WJ VIP
C795	87-010-194-080		CAP, CHIP 0.047	R329	87-022-184-080		RES,METAL 0.33-1W
C796	87-010-403-080		CAP, ELECT 3.3-50V	R330	87-022-184-080		RES,METAL 0.33-1W
C797	87-010-197-080		CAP, CHIP 0.01 DM	R331	87-022-184-080		RES,METAL 0.33-1W
C799	87-010-405-080		CAP, ELECT 10-50V	R332	87-022-184-080		RES,METAL 0.33-1W
C817	87-010-196-080		CHIP CAPACITOR,0.1-25<HE>	SFR722	87-024-171-080		SEMI-FIXED RESISTOR, 4.7K
C820	87-010-260-080		CAP, ELECT 47-25V	SW261	87-A90-174-010		SW,PUSH 2-2-2
C821	87-010-197-080		CAP, CHIP 0.01 DM	SW262	87-A90-174-010		SW,PUSH 2-2-2
C823	87-010-197-080		CAP, CHIP 0.01 DM	TC721	87-011-253-080		TRIMER,30P LAR
C825	87-010-196-080		CHIP CAPACITOR,0.1-25	TH201	87-A90-221-080		C-THMS,100K
C833	87-010-196-080		CHIP CAPACITOR,0.1-25<HE>	TH202	87-A90-221-080		C-THMS,100K
C835	87-016-461-080		C-CAP,S 0.47-16F	TH301	87-A90-221-080		C-THMS,100K
C836	87-010-401-080		CAP, ELECT 1-50V	TH302	87-A90-221-080		C-THMS,100K
C837	87-010-197-080		CAP, CHIP 0.01 DM	VR451	86-AR4-652-010		VR,RTRY 10KBX1 1 H<HE>
C849	87-010-197-080		CAP, CHIP 0.01 DM	VR452	86-AR4-651-010		VR,RTRY 10KAX1 1 H<HE>
C850	87-010-196-080		CHIP CAPACITOR,0.1-25	W101	87-AR4-676-010		F-CABLE,8P 2.5 400MM BL
C901	87-010-197-080		CAP, CHIP 0.01 DM	W102	87-AR4-693-010		F-CABLE,2P 2.5 230MM
C920	87-010-196-080		CHIP CAPACITOR,0.1-25	W201	87-AR4-686-010		F-CABLE,8P 2.5 500MM BL
C955	87-010-197-080		CAP, CHIP 0.01 DM	W301	86-AR4-642-110		F-CABLE,4P 2.5 300MM
C960	87-016-461-080		CHIP CAPACITOR,0.47-16 ZF	X703	84-508-618-010		VIBRATER CSB456 F15
C988	87-010-198-080		CAP, CHIP 0.022	X721	87-030-372-010		VIB,XTAL 7.2MHZ
C989	87-010-154-080		CAP CHIP 10P				
C996	87-010-196-080		CHIP CAPACITOR,0.1-25				
CF801	87-008-261-080		FLTR SFE 10.7 MA5-A				
CF802	87-008-261-080		FLTR SFE 10.7 MA5-A				
EMI451	87-008-372-080		FILTER, EMI BL OIRNI<HE>	C101	87-018-209-010		CAP 0.1
EMI501	87-008-372-080		FILTER, EMI BL OIRNI	C103	87-010-316-080		C-CAP,S 33P-50 CH
FB101	87-608-372-080		FLTR,EMIBL1 PN1<HE>	C104	87-A10-224-040		CAP,E 10-10 7L BP
FFE801	A8-7ZA-291-030		7ZA-2 YFEUNM	C105	87-010-196-080		CHIP CAPACITOR,0.1-25
J261	87-A60-198-010		JACK,6.3 BLK ST W/O SW HPJ	C106	87-010-196-080		CHIP CAPACITOR,0.1-25
J451	87-A60-188-010		JACK,6.3 BLK MONO W/SW MIC<HE>	C107	87-015-692-040		E/CAP 0.22-

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
LED308	87-070-199-080		LED,SLP738F-81-S-T1	C514	87-A10-516-080		C-CAP,S 100P-200 J CH
LED309	87-070-199-080		LED,SLP738F-81-S-T1	C515	87-010-805-080		CAP, S 1-16
LED310	87-070-199-080		LED,SLP738F-81-S-T1	C516	87-010-805-080		CAP, S 1-16
LED311	87-070-199-080		LED,SLP738F-81-S-T1	C517	87-010-260-040		CAP,E 47-25 SME
LED312	87-070-199-080		LED,SLP738F-81-S-T1	C518	87-016-461-080		C-CAP,S 0.47-16F
LED313	87-070-199-080		LED,SLP738F-81-S-T1	C519	87-010-178-080		CHIP CAP 1000P
LED314	87-070-199-080		LED,SLP738F-81-S-T1	△ PR501	87-026-691-080		FUSE,10A 125V 251<U>
LED315	87-070-199-080		LED,SLP738F-81-S-T1	△ PR501	87-026-682-080		PROTECTOR,10A 60V491<HE>
LED316	87-070-199-080		LED,SLP738F-81-S-T1	△ PR502	87-026-691-080		FUSE,10A 125V 251<U>
LED317	87-001-123-080		LED, SLZ981C-02	△ PR502	87-026-682-080		PROTECTOR,10A 60V491<HE>
LED318	87-001-123-080		LED, SLZ981C-02	R525	87-022-184-080		RES,METAL 0.33-1W
LED319	87-001-123-080		LED, SLZ981C-02	R526	87-022-184-080		RES,METAL 0.33-1W
LED320	87-001-123-080		LED, SLZ981C-02	TH501	87-A90-221-080		C-THMS,100K
LED321	87-001-123-080		LED, SLZ981C-02				
LED322	87-001-123-080		LED, SLZ981C-02				
LED323	87-001-123-080		LED, SLZ981C-02	VR C.B			
LED324	87-001-123-080		LED, SLZ981C-02				
S201	87-A90-095-080		SW,TACT EVQ11G04M	C605	87-010-260-040		CAP,E 47-25 SME
S202	87-A90-095-080		SW,TACT EVQ11G04M	C606	87-010-196-080		CHIP CAPACITOR,0.1-25
S203	87-A90-095-080		SW,TACT EVQ11G04M	C607	87-010-263-040		CAP,E 100-10
				C608	87-010-263-040		CAP,E 100-10
				C609	87-010-263-040		CAP,E 100-10
S204	87-A90-095-080		SW,TACT EVQ11G04M				
S205	87-A90-095-080		SW,TACT EVQ11G04M	C610	87-010-196-080		CHIP CAPACITOR,0.1-25
S206	87-A90-095-080		SW,TACT EVQ11G04M	C611	87-010-402-040		CAP,E 2.2-50 SME
S207	87-A90-095-080		SW,TACT EVQ11G04M	C612	87-010-402-040		CAP,E 2.2-50 SME
S208	87-A90-095-080		SW,TACT EVQ11G04M	C613	87-010-260-040		CAP,E 47-25 SME
				C614	87-010-402-040		CAP,E 2.2-50 SME
S209	87-A90-095-080		SW,TACT EVQ11G04M				
S210	87-A90-095-080		SW,TACT EVQ11G04M	C615	87-010-196-080		CHIP CAPACITOR,0.1-25
S211	87-A90-095-080		SW,TACT EVQ11G04M	C617	87-010-402-040		CAP,E 2.2-50 SME
S212	87-A90-095-080		SW,TACT EVQ11G04M	C618	87-010-402-040		CAP,E 2.2-50 SME
S213	87-A90-095-080		SW,TACT EVQ11G04M	C619	87-010-178-080		CHIP CAP 1000P
				C620	87-010-196-080		CHIP CAPACITOR,0.1-25
S214	87-A90-095-080		SW,TACT EVQ11G04M				
S221	87-A90-095-080		SW,TACT EVQ11G04M	C621	87-010-402-040		CAP,E 2.2-50 SME
S222	87-A90-095-080		SW,TACT EVQ11G04M	C623	87-018-119-080		CAP, CER 100P-50V
S223	87-A90-095-080		SW,TACT EVQ11G04M	C624	87-018-111-080		CAP, CERA-SOL SS 27P
S224	87-A90-095-080		SW,TACT EVQ11G04M	C650	87-010-400-040		CAP,E 0.47-50
				C651	87-010-400-040		CAP,E 0.47-50
S225	87-A90-095-080		SW,TACT EVQ11G04M				
S226	87-A90-095-080		SW,TACT EVQ11G04M	C654	87-010-322-080		C-CAP,S 100P-50 CH
S227	87-A90-095-080		SW,TACT EVQ11G04M	C655	87-010-322-080		C-CAP,S 100P-50 CH
S228	87-A90-095-080		SW,TACT EVQ11G04M	C656	87-010-400-040		CAP,E 0.47-50
S229	87-A90-095-080		SW,TACT EVQ11G04M	C658	87-010-322-080		C-CAP,S 100P-50 CH
				C659	87-010-263-040		CAP,E 100-10
S230	87-A90-095-080		SW,TACT EVQ11G04M				
S231	87-A90-095-080		SW,TACT EVQ11G04M	C660	87-010-384-040		CAP,E 100-25 SME
S232	87-A90-095-080		SW,TACT EVQ11G04M	C661	87-010-196-080		CHIP CAPACITOR,0.1-25
S233	87-A90-095-080		SW,TACT EVQ11G04M<HE>	C701	87-010-402-040		CAP,E 2.2-50 SME
S234	87-A90-095-080		SW,TACT EVQ11G04M<HE>	C702	87-010-402-040		CAP,E 2.2-50 SME
				C703	87-012-154-080		C-CAP,S 150P-50 CH
S241	87-A90-095-080		SW,TACT EVQ11G04M				
S242	87-A90-095-080		SW,TACT EVQ11G04M	C704	87-012-154-080		C-CAP,S 150P-50 CH
S243	87-A90-095-080		SW,TACT EVQ11G04M	C705	87-016-460-080		C-CAP,S 0.22-16 B
S244	87-A90-095-080		SW,TACT EVQ11G04M	C706	87-016-460-080		C-CAP,S 0.22-16 B
S245	87-A90-095-080		SW,TACT EVQ11G04M	C707	87-010-182-080		C-CAP,S 2200P-50 B
				C708	87-010-182-080		C-CAP,S 2200P-50 B
S246	87-A90-095-080		SW,TACT EVQ11G04M				
S247	87-A90-095-080		SW,TACT EVQ11G04M	C709	87-010-597-080		C-CAP,S 0.056-16V,RK
S248	87-A90-095-080		SW,TACT EVQ11G04M	C710	87-010-597-080		C-CAP,S 0.056-16V,RK
S249	87-A90-095-080		SW,TACT EVQ11G04M	C711	87-016-460-080		C-CAP,S 0.22-16 B
S250	87-A90-095-080		SW,TACT EVQ11G04M	C712	87-016-460-080		C-CAP,S 0.22-16 B
				C713	87-010-805-080		C-CAP,S 1-16 2F
S251	87-A90-095-080		SW,TACT EVQ11G04M<HE>				
VR101	86-AR4-653-010		VR,RTYR 100K3BM 1H	C714	87-010-260-040		CAP,E 47-25 SME
X101	87-A70-070-080		VIB,CER 5.76MHZ CRHF	C715	87-010-405-040		CAP,E 10-50
				C716	87-010-260-040		CAP,E 47-25 SME
				C717	87-016-081-080		C-CAP,S 0.1-16 RK
				C718	87-010-196-080		CHIP CAPACITOR,0.1-25
AMP C.B							
C501	87-010-405-040		CAP,E 10-50	MVR601	87-AR3-605-010		VR,MOT 50KBX6 1 V 54B
C502	87-010-179-080		CAP,CHIP S B1200P				
C503	87-010-406-040		CAP,E 22-50 SME				
C504	87-012-140-080		CAP 470P	PRO C.B			
C505	87-010-406-040		CAP,E 22-50 SME				
C506	87-010-179-080		CAP,CHIP S B1200P	C1	87-010-405-040		CAP,E 10-50
C511	87-010-247-080		CAP, ELECT 100-50V	C2	87-010-405-040		CAP,E 10-50
C512	87-010-247-080		CAP, ELECT 100-50V	C3	87-010-405-040		CAP,E 10-50
C513	87-018-208-080		CAP 0.047-50F	C4	87-010-260-040		CAP,E 47-25 SME
				C5	87-010-405-040		CAP,E 10-50

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION	REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C6	87-016-081-080		C-CAP,S 0.1-16 RK	C455	87-010-196-080		CHIP CAPACITOR,0.1-25
C7	87-010-401-040		CAP,E 1-50 SME	C456	87-010-196-080		CHIP CAPACITOR,0.1-25
C8	87-010-318-080		C-CAP,S 47P-50 CH	C457	87-010-196-080		CHIP CAPACITOR,0.1-25
C9	87-010-318-080		C-CAP,S 47P-50 CH	C458	87-010-196-080		CHIP CAPACITOR,0.1-25
C10	87-012-368-080		C-CAP,S 0.1-50 F	J401	87-A60-244-010		JACK,PIN 1P BLK
C11	87-010-263-040		CAP,E 100-10	J402	87-A60-199-010		TERMINAL,SP 8P CJ-9034-07 V0
C12	87-016-456-040		CAP,E 22-16 SME	J403	87-A60-200-110		TERMINAL,SP 6P CJ-9033
C13	87-010-213-080		C-CAP,S 0.015-25 K B	L401	87-003-383-010		COIL,1UH-S
C22	87-016-081-080		C-CAP,S 0.1-16 RK	L402	87-003-383-010		COIL,1UH-S
C23	87-016-081-080		C-CAP,S 0.1-16 RK	L403	87-003-383-010		COIL,1UH-S
C24	87-016-081-080		C-CAP,S 0.1-16 RK	L404	87-003-383-010		COIL,1UH-S
C25	87-012-140-080		CAP 470P	L405	87-003-383-010		COIL,1UH-S
C27	87-010-401-040		CAP,E 1-50 SME	L406	87-003-383-010		COIL,1UH-S
C28	87-010-177-080		C-CAP,S 820P-50 SL	L407	87-003-383-010		COIL,1UH-S
C31	87-A10-229-080		C-CAP,S 0.68-10 K W5	S401	86-SP8-611-010		SW,SL 1-1-2
C32	87-012-393-080		C-CAP,S 0.22-16 R K				
C33	87-012-393-080		C-CAP,S 0.22-16 R K	JACK C.B			
C34	87-010-404-040		CAP,E 4.7-50 SME		86-NF2-222-010		PIN,DIA1-6.5
C35	87-010-404-040		CAP,E 4.7-50 SME	C601	87-010-401-040		CAP,E 1-50 SME
C36	87-012-393-080		C-CAP,S 0.22-16 R K	C602	87-010-401-040		CAP,E 1-50 SME
C37	87-012-393-080		C-CAP,S 0.22-16 R K	C603	87-010-401-040		CAP,E 1-50 SME
C38	87-016-081-080		C-CAP,S 0.1-16 RK	C604	87-012-368-080		C-CAP,S 0.1-50 F
C41	87-016-081-080		C-CAP,S 0.1-16 RK				
C42	87-016-081-080		C-CAP,S 0.1-16 RK	J600	87-AR3-608-010		JACK,PIN 3P W/W/R W/O SW H
C45	87-016-081-080		C-CAP,S 0.1-16 RK				
C47	87-010-176-080		C-CAP,S 680P-50 SL	AC1 C.B			
C49	87-010-176-080		C-CAP,S 680P-50 SL				
C52	87-016-456-040		CAP,E 22-16 LLA	△ PT101	87-AR3-662-010		PT, U EI85-58 7AR-3<U>
C53	87-016-251-040		CAP,E 220-16 SMG	△ PT101	87-AR3-661-010		PT,HE EI85-80 7AR-3<HE>
C54	87-016-471-080		CAP, ELECT 10-50V K	△ F106	87-035-368-010		FUSE, 4A 250V T<HE>
C56	87-018-115-080		CAP,TC-U 47P-50 J	△ F106	87-035-493-010		FUSE, 8A 125VT237<U>
C57	87-010-405-080		CAP, ELECT 10-50V	△ F107	87-035-368-010		FUSE, 4A 250V T<HE>
C58	87-010-405-080		CAP, ELECT 10-50V	△ F107	87-035-493-010		FUSE, 8A 125VT237<U>
C61	87-010-384-040		CAP,E 100-25 SME	△ FC101	87-033-147-010		FUSE CLAMP
C62	87-012-368-080		C-CAP,S 0.1-50 F	△ FC102	87-033-147-010		FUSE CLAMP
C63	87-010-315-080		C-CAP,S 27P-50 CH	△ FC103	87-033-147-010		FUSE CLAMP
C64	87-010-315-080		C-CAP,S 27P-50 CH	△ FC104	87-033-147-010		FUSE CLAMP
C65	87-010-315-080		C-CAP,S 27P-50 CH				
C112	87-010-382-080		CAP, ELECT 22-25V	△ P1	87-A60-317-010		TERMINAL, 1P MSC
C114	87-010-384-080		CAP, ELECT 100-25V	△ P2	87-A60-317-010		TERMINAL, 1P MSC
C115	87-012-140-080		CAP 470P				
C116	87-010-263-080		CAP,ELECT 100-10V<U>	AC2 C.B			
C117	87-010-235-080		CAP,E 470-16 SME	C101	87-018-209-080		CAP,TC-U 0.1-50<HE>
C118	87-010-235-080		CAP,E 470-16 SME	C102	87-018-209-080		CAP,TC-U 0.1-50<HE>
C119	87-010-407-080		CAP, ELECT 33-50V	C103	87-018-209-080		CAP,TC-U 0.1-50<HE>
C120	87-010-407-080		CAP, ELECT 33-50V	△ PR11	87-026-682-080		PROTECTOR,10A 60V491<HE>
C121	87-010-408-080		CAP, ELECT 47-50V	△ PR11	87-026-691-080		FUSE,10A 125V 251<U>
C122	87-010-263-080		CAP, ELECT 100-10V				
C123	87-010-112-080		CAP, ELECT 100-16V	△ PR12	87-026-682-080		PROTECTOR,10A 60V491<HE>
L1	87-005-481-080		COIL,47UH J FLR50	△ PR12	87-026-691-080		FUSE,10A 125V 251<U>
R27	87-025-407-080		RES,100K-1/8W	△ PR13	87-026-682-080		PROTECTOR,10A 60V491<HE>
R144	87-029-060-010		FUSING RESISTOR, 33,1/4W	△ PR13	87-026-691-080		FUSE,10A 125V 251<U>
				△ PR14	87-026-682-080		PROTECTOR,10A 60V491<HE>
				△ PR14	87-026-691-080		FUSE,10A 125V 251<U>
				△ PR15	87-026-682-080		PROTECTOR,10A 60V491<HE>
SW C.B				△ PR15	87-026-691-080		FUSE,10A 125V 251<U>
S11	87-036-173-010		SW,SL 2-2-4 SDKG(*)<HE>	△ PR16	87-026-682-080		PROTECTOR,10A 60V491<HE>
				△ PR16	87-026-691-080		FUSE,10A 125V 251<U>
SP C.B							
				RY101	87-A90-454-010		RELAY,12V DJ12D2-0(M)
				RY102	87-A90-454-010		RELAY,12V DJ12D2-0(M)
C421	87-010-196-080		CHIP CAPACITOR,0.1-25				
C422	87-010-196-080		CHIP CAPACITOR,0.1-25				
C423	87-010-196-080		CHIP CAPACITOR,0.1-25				
C424	87-010-196-080		CHIP CAPACITOR,0.1-25				
C425	87-010-196-080		CHIP CAPACITOR,0.1-25				
C426	87-010-196-080		CHIP CAPACITOR,0.1-25				
C451	87-010-196-080		CHIP CAPACITOR,0.1-25				
C452	87-010-196-080		CHIP CAPACITOR,0.1-25				
C453	87-010-196-080		CHIP CAPACITOR,0.1-25				
C454	87-010-196-080		CHIP CAPACITOR,0.1-25				

○ 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	1608	± 5 %	CJ		1.6	0.8	0.45	108
1／10W	2125	± 5 %	CJ		2	1.25	0.45	118
1／8W	3216	± 5 %	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



E C B

2SB1370



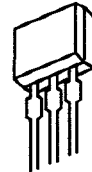
E C B

2SA952
2SC2235
2SC3266
C2N5401
CSD655
KTC3198



G D S

2SK2723



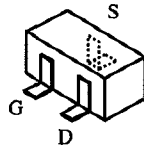
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DTA114YS

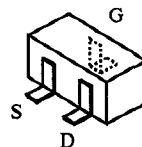


B C E

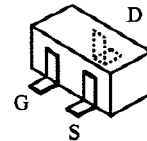
FN1016
FP1016



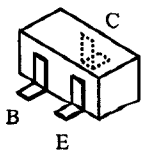
2SK543



2SK368



2SK2158



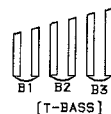
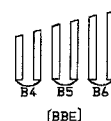
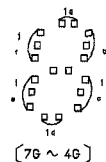
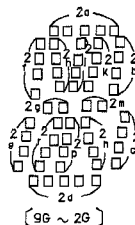
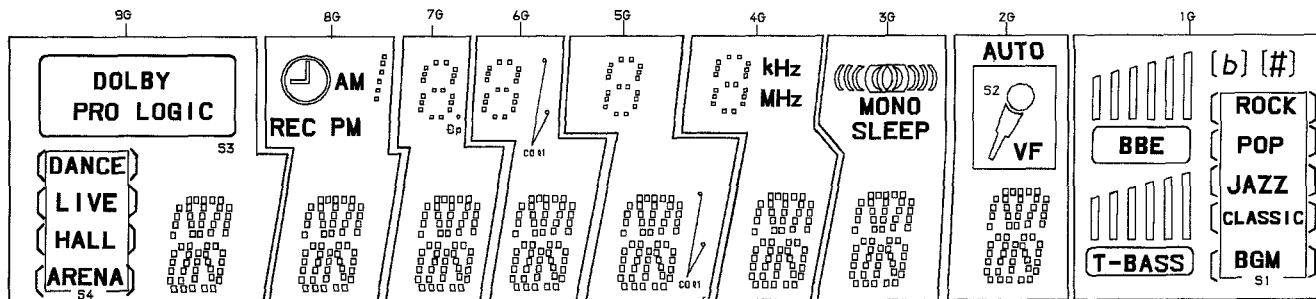
E

2SA1015 DTA114YK
2SA1037 DTA123JK
2SA1235 DTA144WK
2SC2412 DTC124EK
2SC2714 DTC144WK
2SC3052 RN1410
2SD2114 RTIN141C
CMBT5551 RTIP144C
CSD1306E

FL GRID ASSIGNMENT AND ANODE CONNECTION

FL, 9-BT-153GK

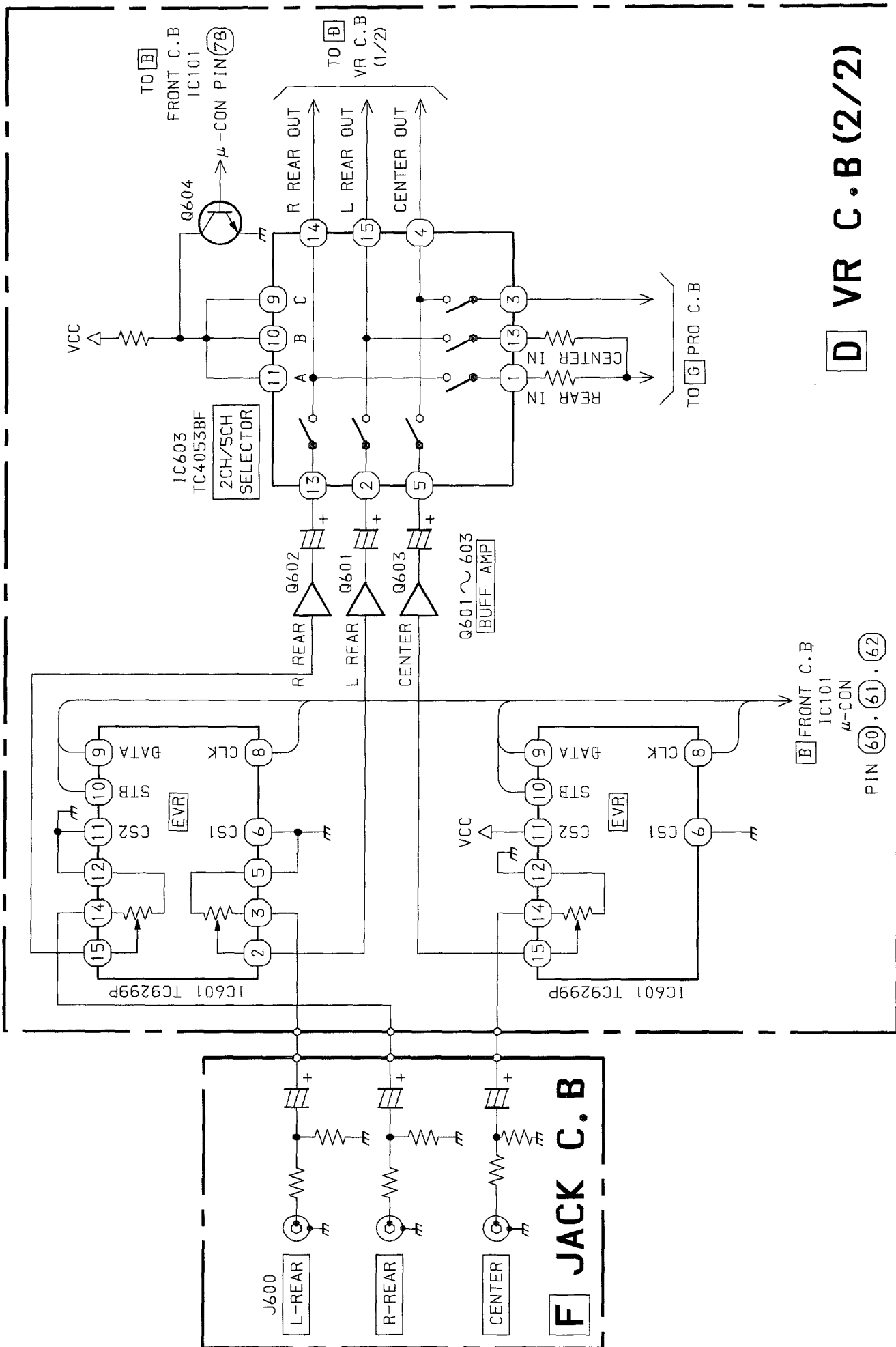
GRID ASSIGNMENT



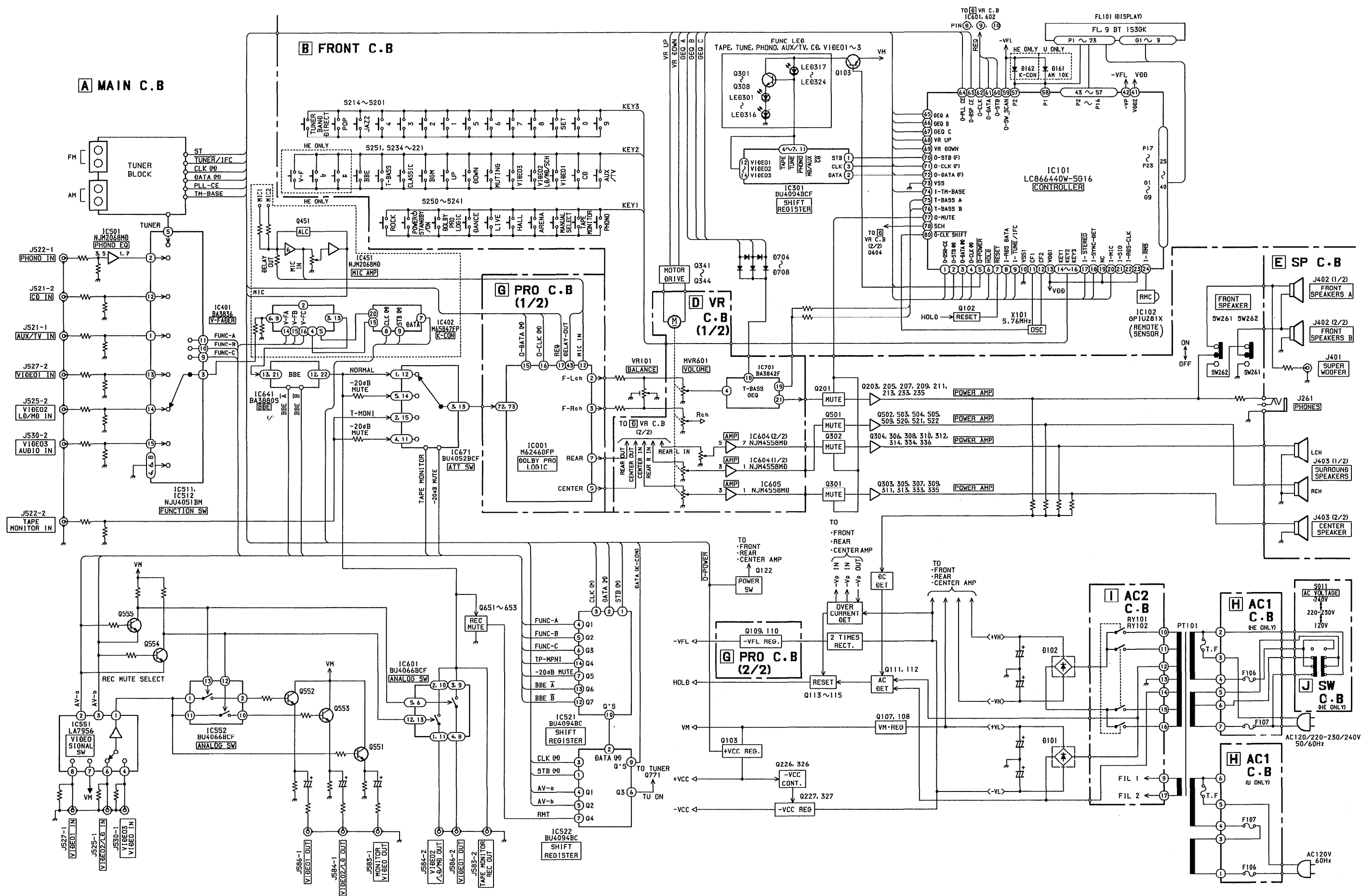
ANODE CONNECTION

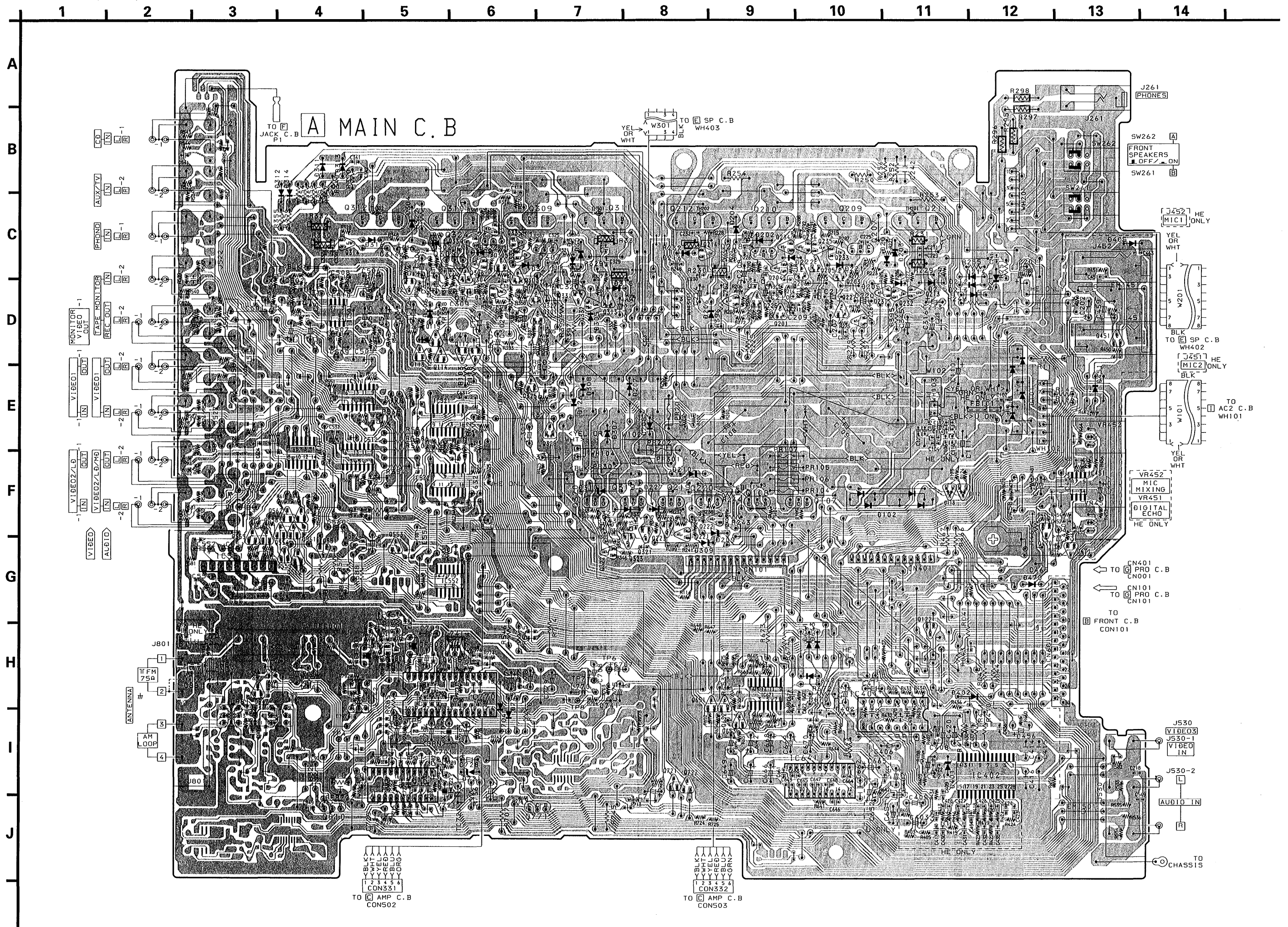
	9G	8G	7G	6G	5G	4G	3G	2G	1G
P1	2d	2d	2d	2d	2d	2d	2d	2d	T-BASS
P2	2n	2n	2n	2n	2n	2n	2n	2n	B3
P3	2p	2p	2p	2p	2p	2p	2p	2p	B2
P4	2r	2r	2r	2r	2r	2r	2r	2r	B1
P5	2e	2e	2e	2e	2e	2e	2e	2e	S1
P6	2c	2c	2c	2c	2c	2c	2c	2c	{ BGM }
P7	2g	2g	2g	2g	2g	2g	2g	2g	{ CLASSIC }
P8	2m	2m	2m	2m	2m	2m	2m	2m	{ JAZZ }
P9	2f	2f	2f	2f	2f	2f	2f	2f	{ POP }
P10	2b	2b	2b	2b	2b	2b	2b	2b	{ ROCK }
P11	2k	2k	2k	2k	2k	2k	2k	2k	{ (#) }
P12	2j	2j	2j	2j	2j	2j	2j	2j	#
P13	2h	2h	2h	2h	2h	2h	2h	2h	{ (b) }
P14	2a	2a	2a	2a	2a	2a	2a	2a	b
P15	S4		1d	1d	1d	1d	SLEEP	S2	BBE
P16	{ ARENA }	PM	1e	1e	1e	1e	MONO	AUTO	B6
P17	{ HALL }	AM	1c	1c	1c	1c	{ (((()))) }	—	B5
P18	{ LIVE }	REC	1g	1g	1g	1g	—	—	B4
P19	{ DANCE }		1f	1f	1f	1f	—	—	—
P20	S3	—	1b	1b	1b	1b	—	—	—
P21	—	—	1a	1a	1a	1a	—	—	—
P22	—	—	0p1	col1 { DOWN }	col2	MHz	—	—	—
P23	—	—	—	col1 { UP }	—	kHz	—	—	—

BLOCK DIAGRAM - 1 (JACK / VR)

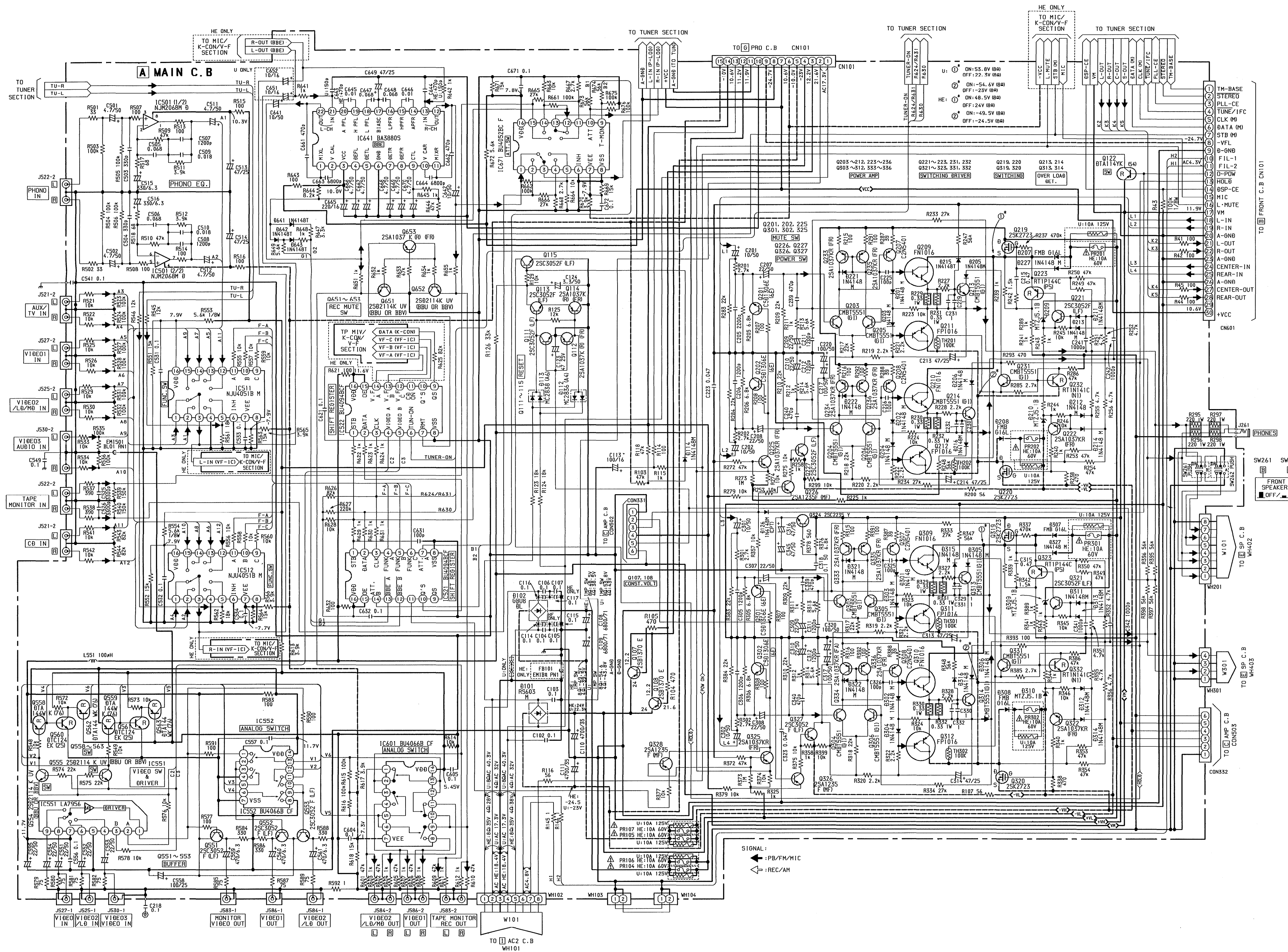


BLOCK DIAGRAM - 2 (MAIN / FRONT)



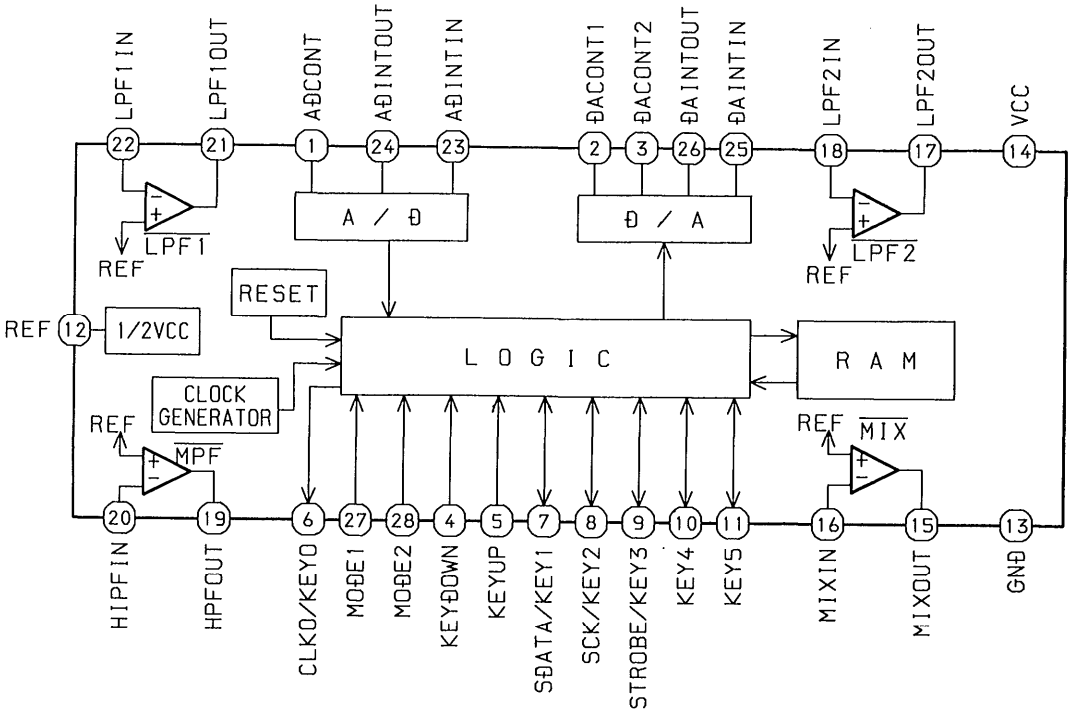


SCHEMATIC DIAGRAM - 1 (MAIN 1 / 2)

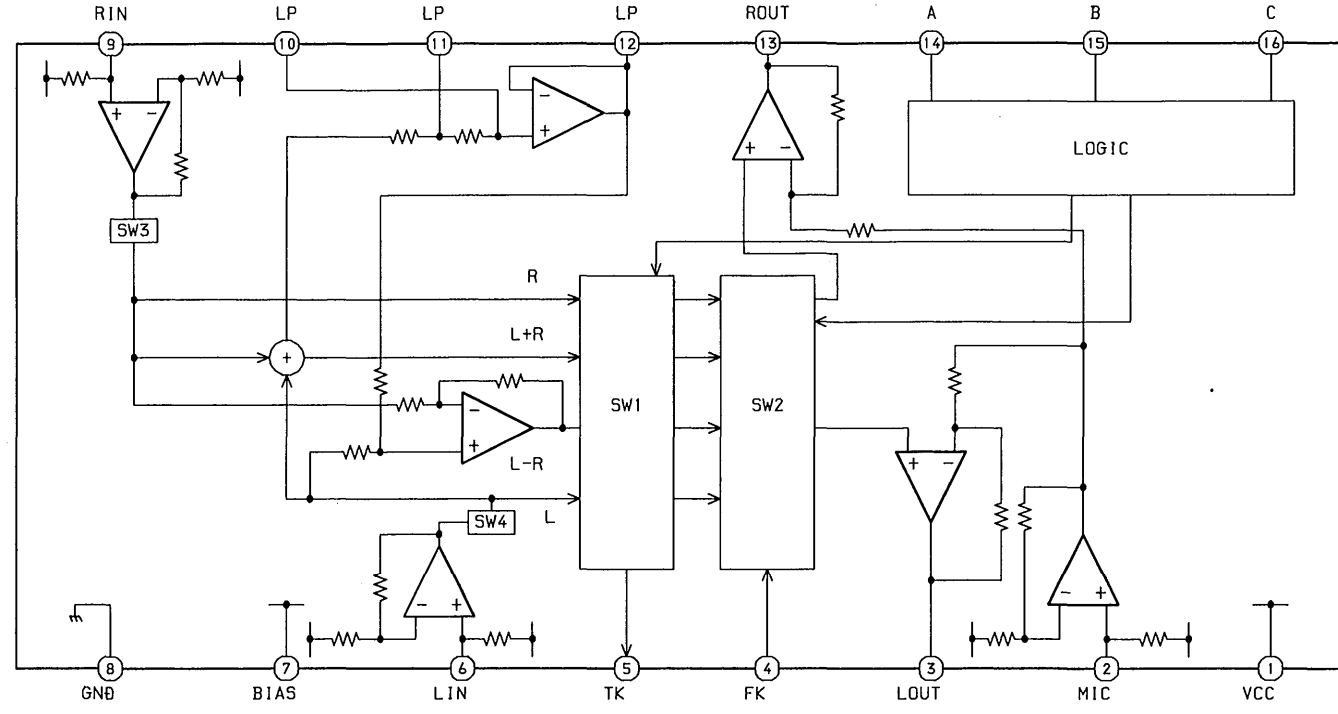


IC BLOCK DIAGRAM – 1

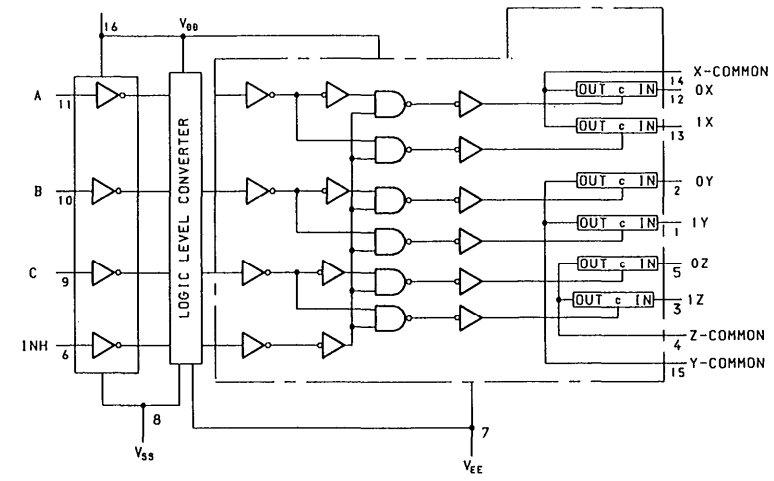
IC, M65847FP



IC, BA3836



IC, TC4053BF

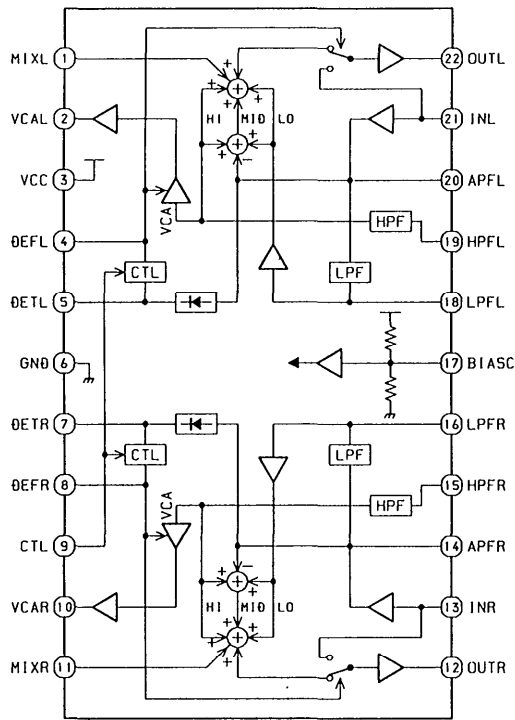


TRUTH TABLE

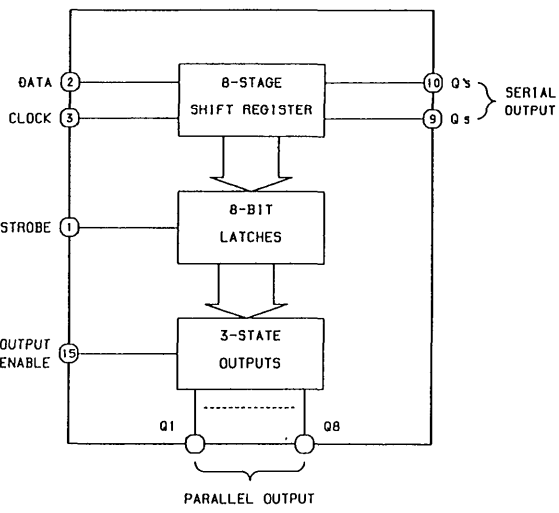
CONTROL INPUTS			
INHIBIT	C Δ	B	A
L	L	L	L
L	L	L	H
L	L	H	L
L	L	H	H
L	H	L	L
L	H	L	H
L	H	H	L
L	H	H	H
H	H	H	H

※:BDN*1 Core Δ Expect TC4052B

IC, BA3880S



IC, BU4094BCF

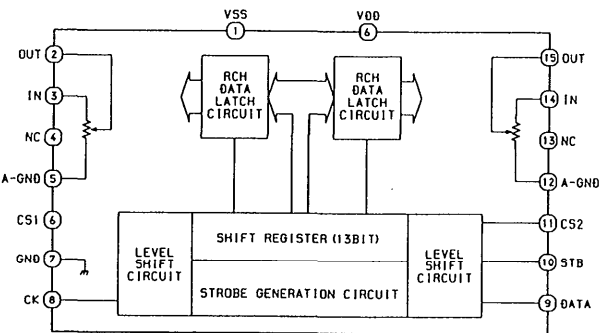


TRUTH TABLE

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, TC9299P

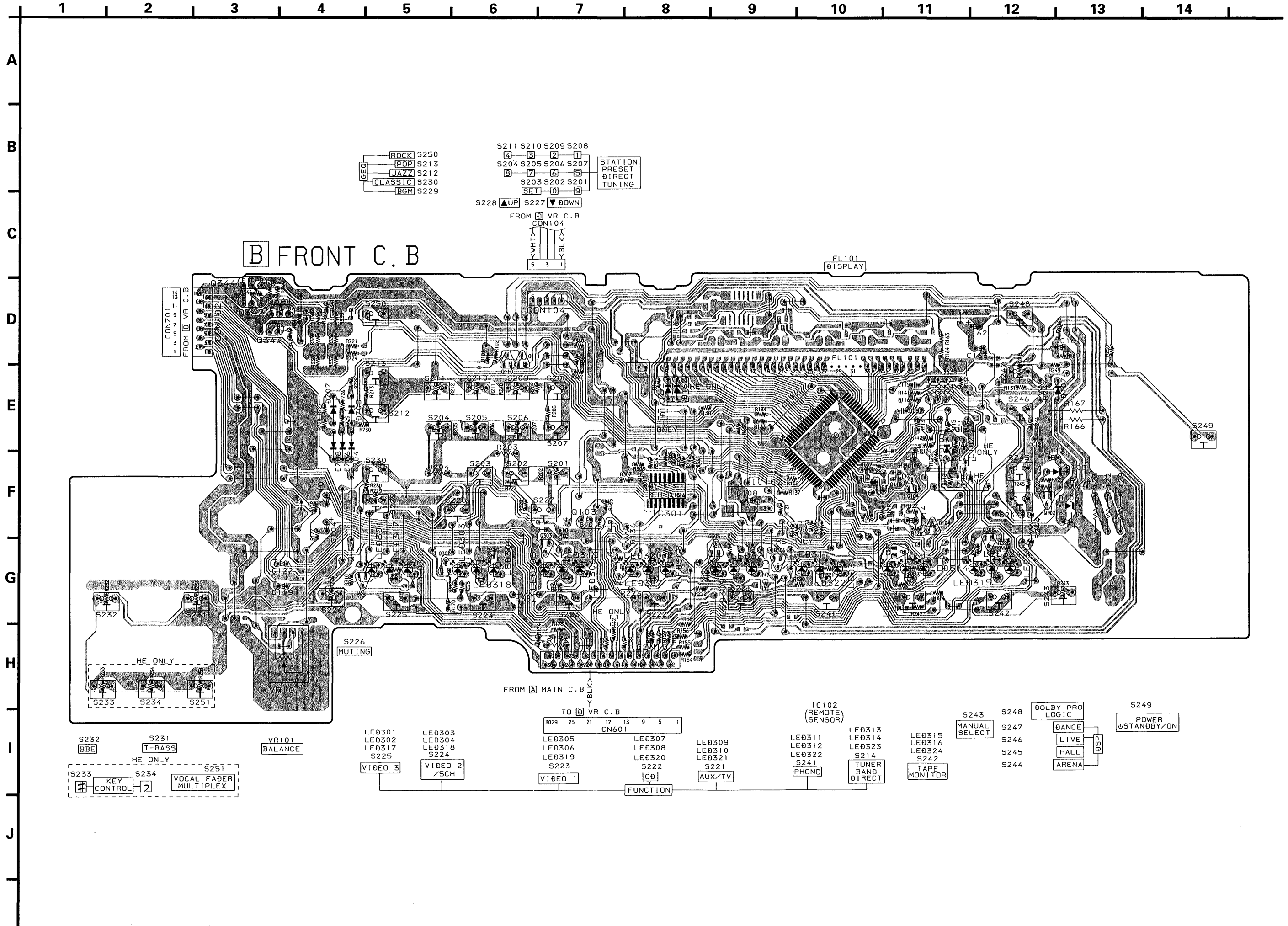


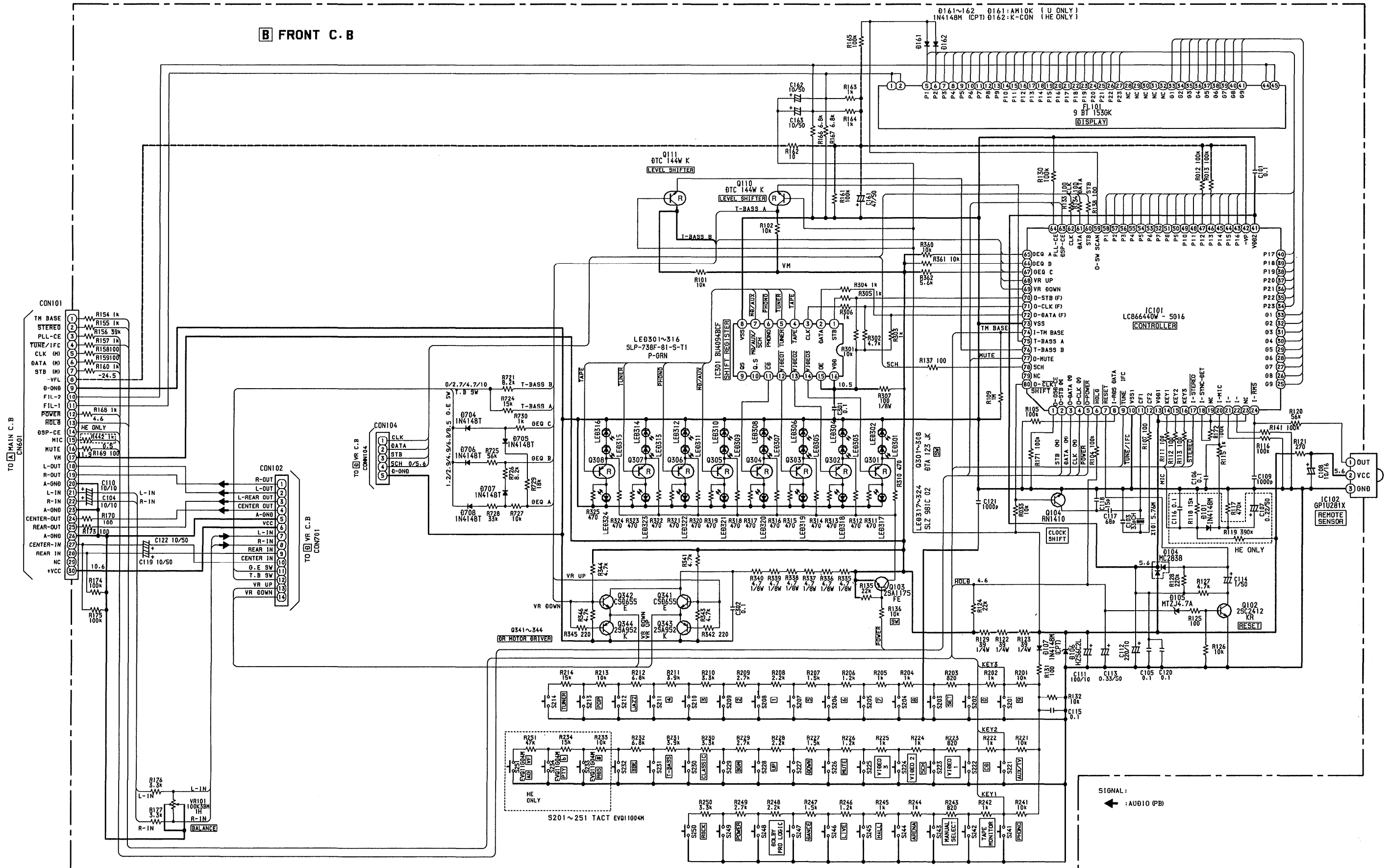
TRUTH TABLE

CLOCK	OUTPUT ENABLE	STROBE	DATA	PARALLEL OUTPUT		SERIAL OUTPUT	
				Q1	Q2	Q1	Q2
	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

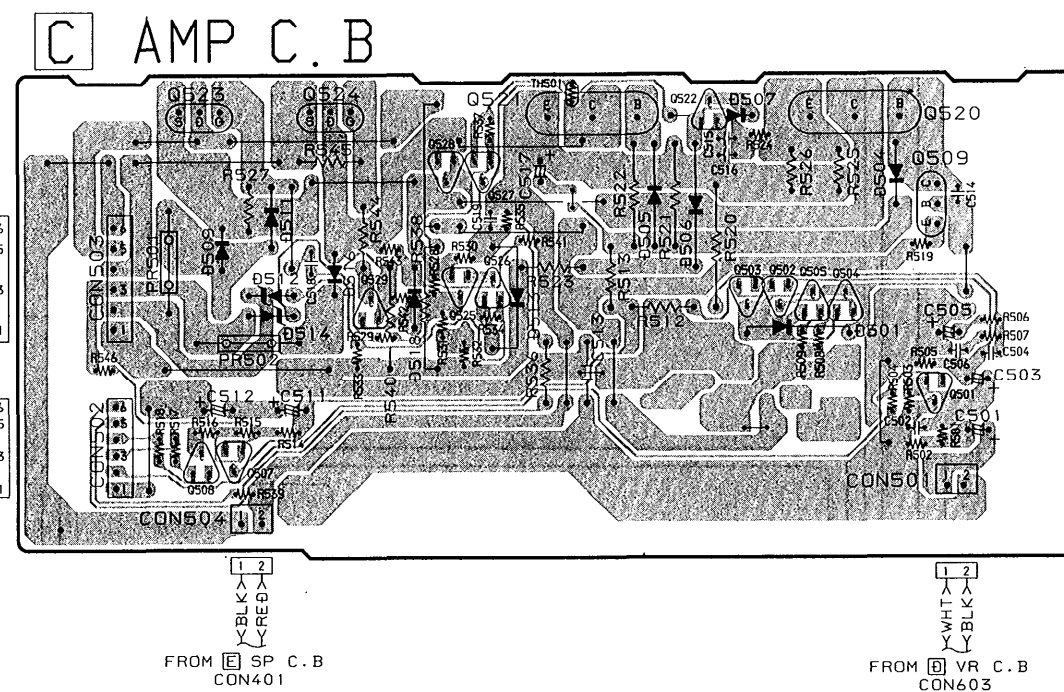
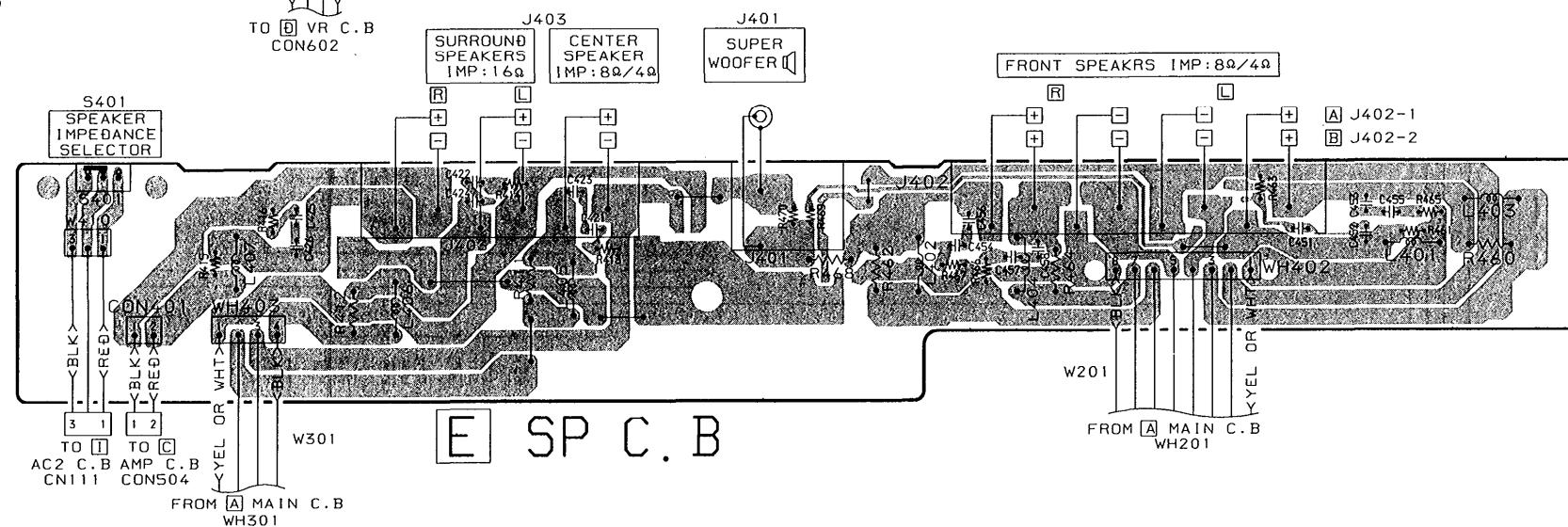
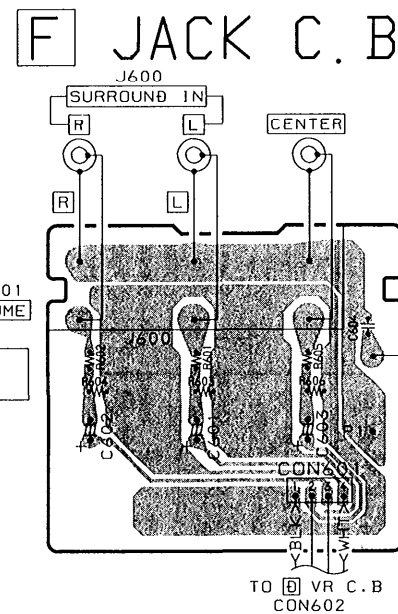
Z= High Impedance
X= Don't Care

WIRING – 2 (FRONT)





A vertical scale with labels A through J. The labels are positioned to the left of a vertical line, and horizontal tick marks extend from the line to the right. The labels are: A, B, C, D, E, F, G, H, I, J.



F JACK C.B.

D VR C.B.

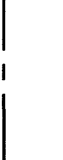
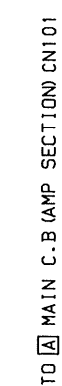
E SP C.B.

C AMP C.B.

A MAIN C.B.

Pinout Table:

Pin	Signal
1	R-REAR
2	L-REAR
3	CENTER
4	10.6
5	1.2/2.9/4.9/6.8/8.5
6	0/2.7/4.7/10
7	VCC
8	L-IN
9	R-IN
10	REAR-IN
11	CENTER-IN
12	G.E. SW
13	T.B. SW
14	VR UP
15	VR DOWN
16	CLK
17	DATA
18	STB
19	SCH
20	0-GND



IC DESCRIPTION

IC, LC866440W-5G16

Pin No.	Pin Name	I/O	Description
1	O-OSD-CE	O	OSD data latch CE output.
2	O-STB(M)	O	Main shift register data latch strobe outputgy.
3	O-DATA(M)	O	Main shift register data doutput.
4	O-CLK(M)	O	Main shift register clock output.
5	O-POWER	O	System power supply ON/OFF output.
6	HOLD	I	Power failure detected input “ L ” to stop clock and maintain memory.
7	RESET	I	Reset input.
8	I-RDS DATA	I	RDS data input (TUNER).
9	I-TUNE/IFC	I	Tuner SD detect input. IF count serial data input.
10	VSS1	—	GND.
11, 12	CF1, 2	—	5.7 MHz oscillator circuit.
13	VDD1	—	Power supply input.
14 ~ 16	I-KEY1 ~ 3	I	Key input. (A/D).
17	I-STEREO	I	TUNER stereo signal input.
18	I-SYNC DET	I	VIDEO signal level input.
19	—	—	Not used.
20	I-MIC	I	Microphone input for auto VF display.
21	I-SIG	I	RDS signal input (TUNER).
22	I-RDS CLK	I	RDS clock input (TUNER).
23	—	—	Not used.
24	I-RMS	I	System remote control signal input.
25 ~ 33	G9 ~ G1	O	FL grid output G9 to G1.
34 ~ 40	P23 ~ P17	O	FL segment output.
41	VDD2	—	Power supply input.
42	-VP	—	Power supply input for FL display. (-34.5 V)
43 ~ 54	P16 ~ P5	O	FL segment output P16~P5.
55	P4	O	FL segment output P4, AM stereo, FM-WIDE mode data input to diode.
56	P3	O	FL segment output P3, RDS mode data input to diode.
57	P2	O	FL segment output P2, K-CON mode data input to diode.
58	P1	O	FL segment output I, AM 10kHz step data input to diode.
59	O-SW SCAN	O	Switch scan timing output.
60	O-STB	O	EVR shift registor data latch strobe output.
61	O-DATA	O	EVR shift registor data output.
62	O-CLK	O	EVR shift registor data output.
63	DSP-CE	O	DSP data latch strobe output.
64	PLL-CE	I/O	PLL IC chip enable.
65	GEQ A	O	GEQ control output.
66	GEQ B	O	GEQ control output.
67	GEQ-C	O	GEQ/T-BASS IC GEQ control output.
68	VR-UP	O	MVR motor control (up) output.
69	VR-DOWN	O	MVR motor control (down) output.

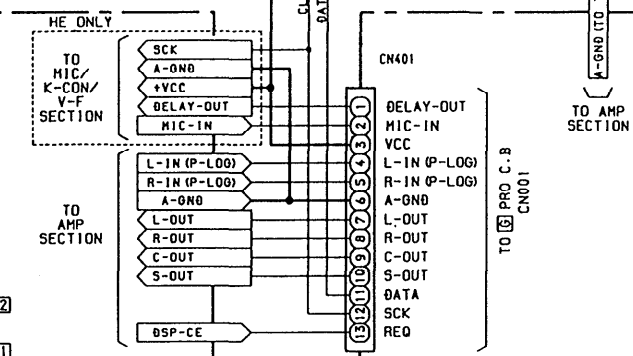
Pin No.	Pin Name	I/O	Description
70	O-STB(F)	O	Front shift register, data latch strobe output.
71	O-CLK(F)	O	Front shift register, data transfer clock output.
72	O-DATA(F)	O	Front shift register, data output.
73	VSS2	—	GND.
74	I-TM BASE	I	Reference clock input for timer watch.
75	T-BSS A	O	GEQ/T-BASS IC T-BASS control output.
76	T-BSS B	O	GEQ/T-BASS IC T-BASS control output.
77	O-MUTE	O	System mute output.
78	5CH	O	2CH / 5CH selector data.
79	—	O	NC.
80	O-CLK SHIFT	O	Micro clock shift output.

PRACTICAL SERVICE FIGURE

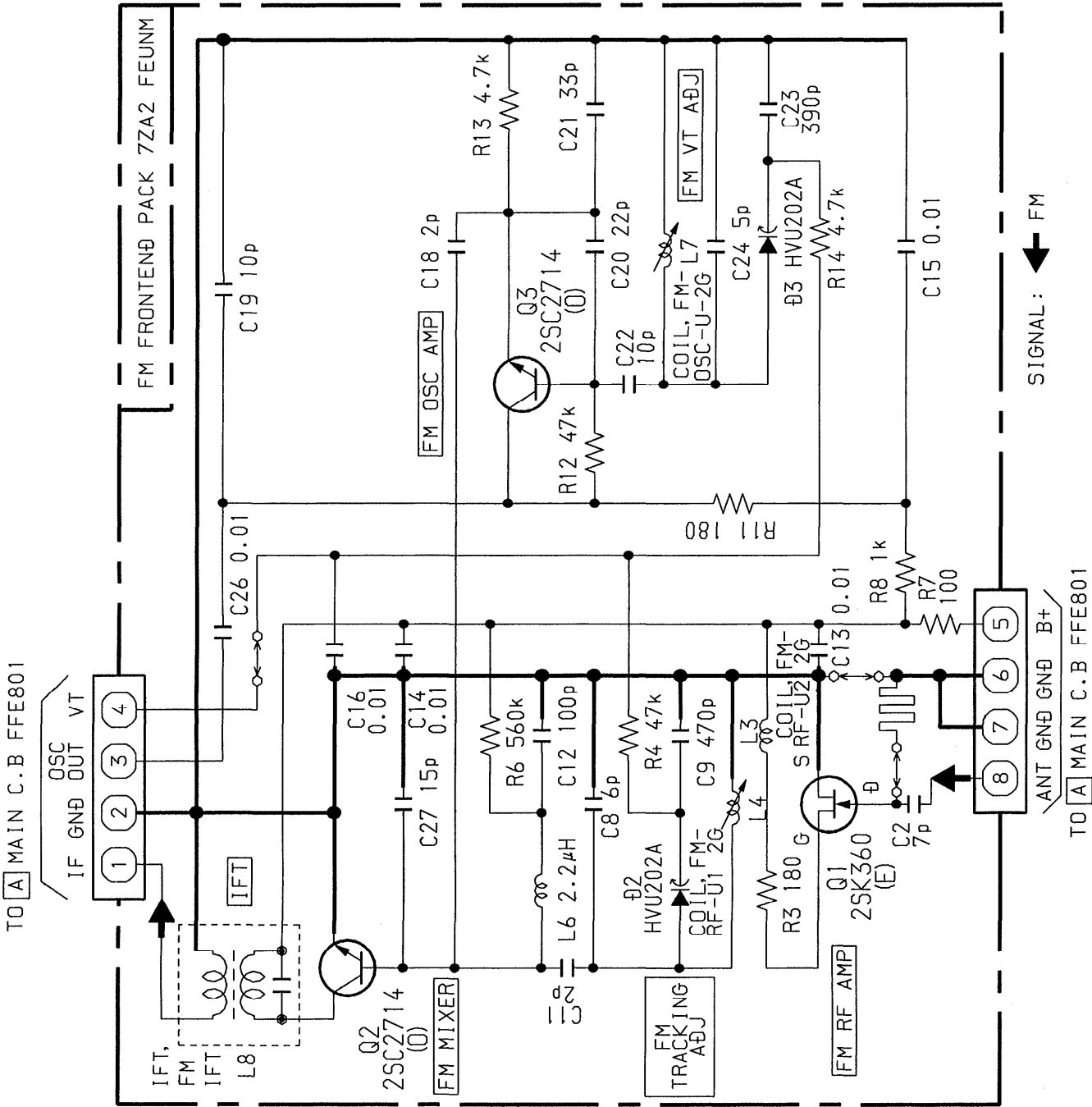
<TUNER SECTION>

<FM SECTION>	
IHF Sensitivity : (THD 3%)	6dB ± 6dB [at 87.5 / 98.0MHz] 8dB ± 6dB [at 108.0MHz]
S/N 50dB Quieting sensitivity :	31dB ± 5dB [at 87.5 / 98.0 / 108.0MHz]
Signal to noise ratio :	More than 64dB [at 98.0MHz]
Distortion :	Less than 1.3 % [at 98.0MHz]
Stereo separation :	More than 25dB [at 98.0MHz]
Intermediate frequency :	10.7MHz

<AM SECTION>	
Sensitivity : (S/N 20 dB)	57dB ± 6dB [at 600kHz]<U> [at 603kHz]<HE> 53dB ± 6dB [at 999 / 1404kHz]<HE> [at 1000 / 1400kHz]<U>
Distortion :	Less than 1.5% [at 1000kHz]<U> [at 999kHz]<HE>
Auto stop level :	50dB ± 10dB [at 999kHz]<HE> [at 1000kHz]<U>
Intermediate frequency :	450kHz

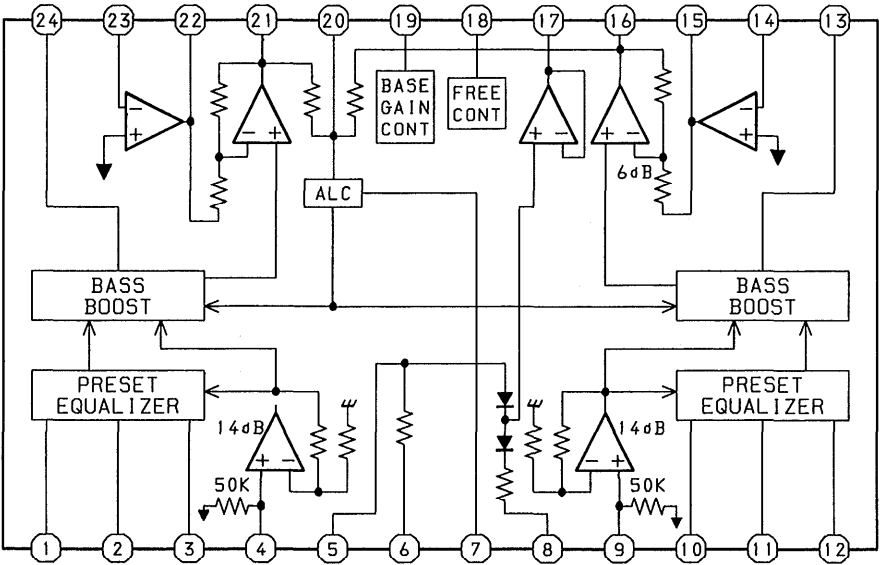


SCHEMATIC DIAGRAM – 6 (TUNER FRONT END)

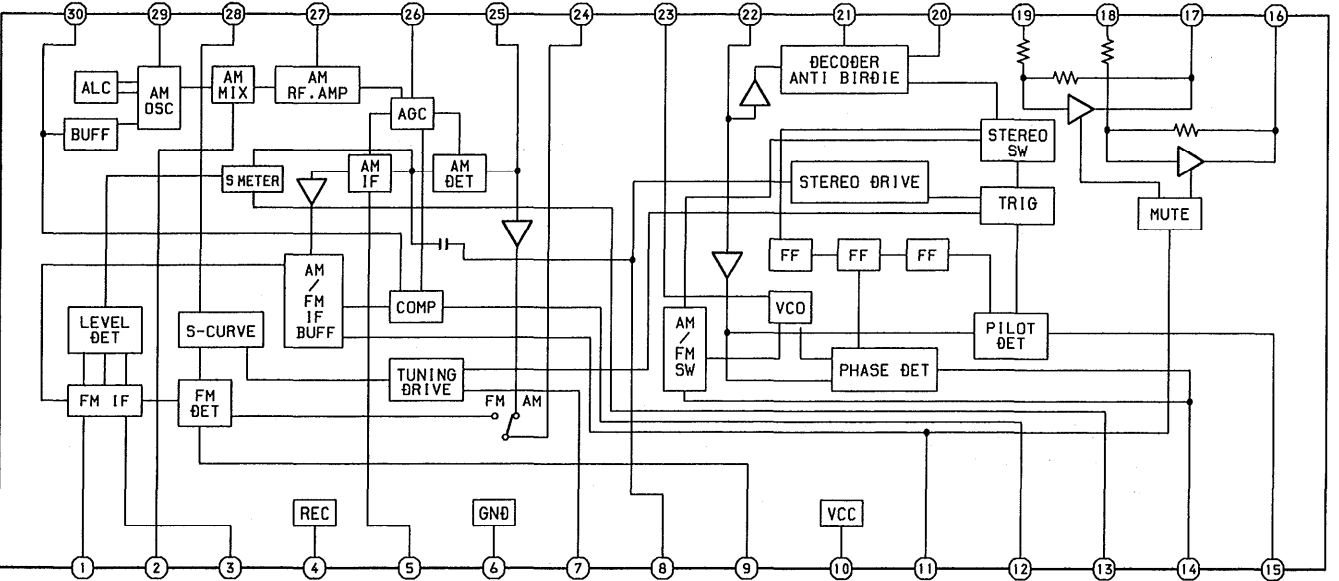


IC BLOCK DIAGRAM – 2

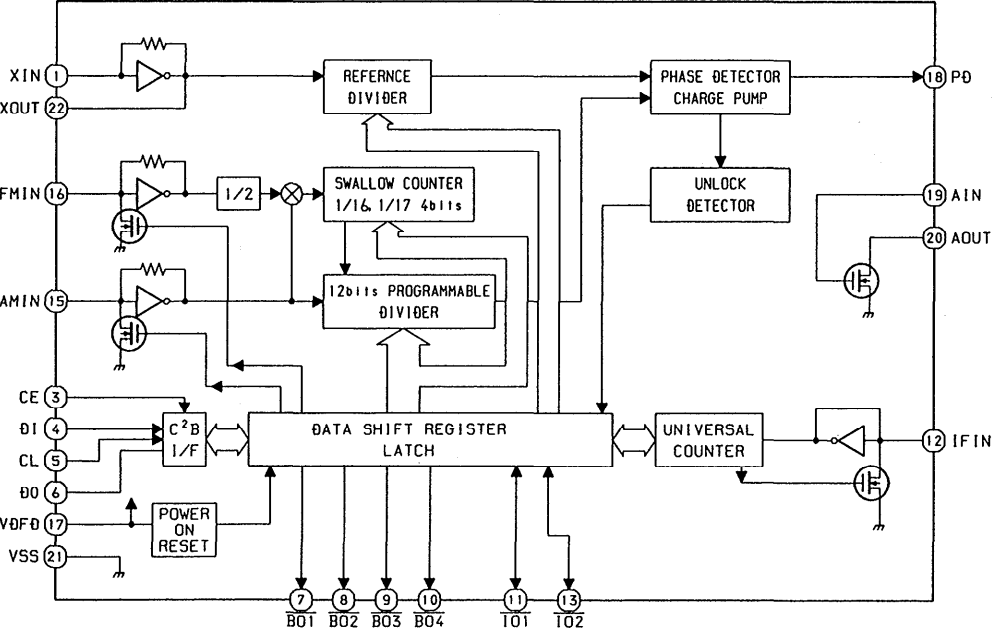
IC, BA3842F



IC, LA1836L

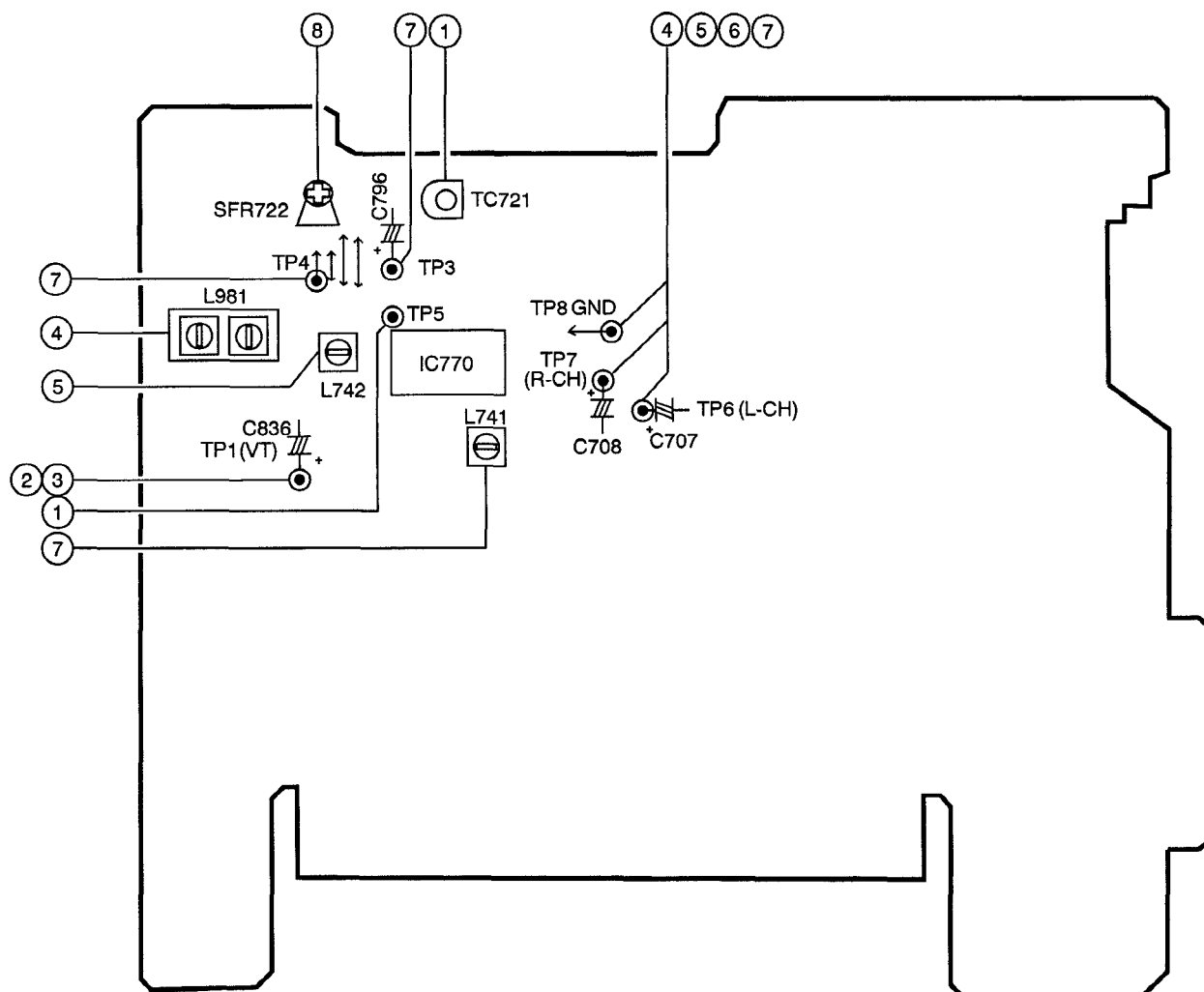


IC, LC72131D



ADJUSTMENT <TUNER>

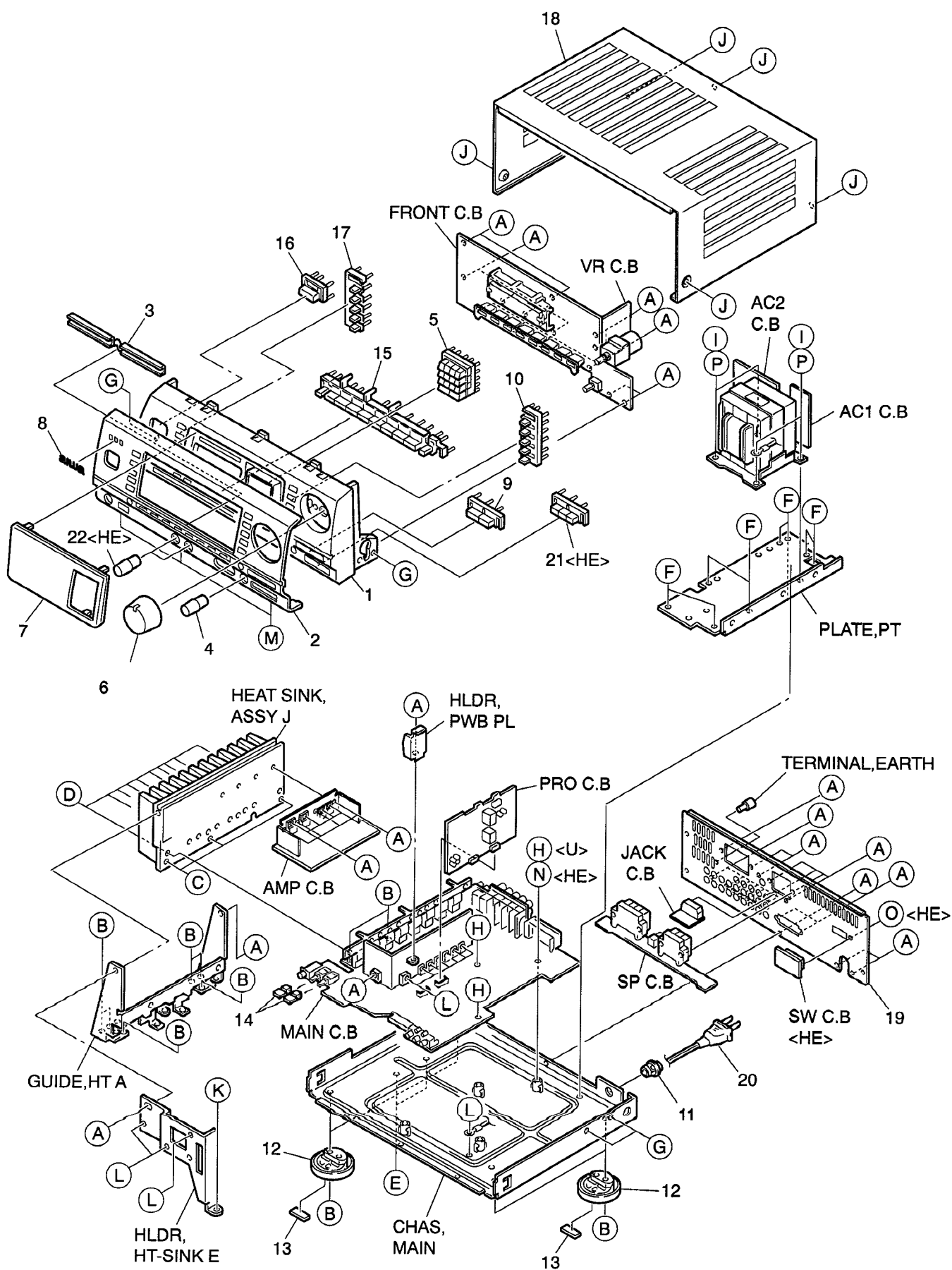
A MAIN C.B



< TUNER SECTION >

1. Clock Frequency Adjustment
 Settings : • Test point : TP5 (CLK IC770 pin30)
 • Adjustment location : TC721
 Method : Set to AM 1710kHz<U> , 1602kHz<HE> and adjust TC721 so that the test point becomes 2160kHz ± 0.01 kHz <U> , 2025 ± 0.01 <HE>.
2. AM VT Check
 Settings : • Test point : TP1 (VT)
 Method : Set to AM 530kHz<U> , 531kHz<HE> and check the test point is 1.1V ± 0.20 V.
3. FM VT Check
 Settings : • Test point : TP1 (VT)
 Method : Set to FM 108.0MHz and check that the test point is 7.5V ± 1.0 V. Then set to FM 87.5MHz and check that the test point is 2.9 ± 1.0 V.
4. AM Tracking Adjustment
 Settings : • Test point : TP6(Lch), TP7(Rch),TP8(GND)
 • Adjustment location : L981
 Method : Set to AM 1000kHz<U> , 999kHz<HE> and adjust L981 so that the test point becomes maximum.
5. AM IF Adjustment
 Settings : • Test point : TP6(Lch), TP7(Rch),TP8(GND)
 L742450kHz
6. FM Tracking Check
 Settings : • Test point : TP6(Lch), TP7(Rch),TP8(GND)
 Method : Set to FM 87.5MHz and 108.0MHz and check that the test point is 4 ± 4 dB and 6 ± 4 dB.
7. DC Balance / Mono Distortion Adjustment
 Settings : • Test point : TP3, TP4 (DC Balance)
 TP6(Lch), TP7(Rch),TP8(GND) (Distortion)
 • Adjustment location : L741
 • Input level : 60dB
 Method : Set to FM 98.0MHz and adjust L741 so that the voltage between TP3 and TP4 becomes 0V ± 0.01 V. Next, check that the distortion is less than 1.3%.
8. Auto Stop Level Adjustment
 Settings : • Adjustment location : SFR722
 • Input level : 20dB
 Method : Set to FM 98.0MHz and adjust voltage low (about 0.01V) by SFR722. After that voltage high (about 7.0V) out by 2dB down.

MECHANICAL EXPLODED VIEW 1 / 1



MECHANICAL PARTS LIST 1 / 1

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	87-AR4-038-010		CABI,FR H	△ 20	87-050-079-010		AC-CORD ASSY,E<HE>
2	87-AR3-001-010		PANEL,FR HE<HE>	21	87-AR4-044-010		KEY,RDS SIL<HE>
2	87-AR3-002-010		PANEL,FR U<U>	22	87-AR4-047-010		KNOB,RTRY MIC SIL<HE>
3	87-AR4-022-010		LENS,FUN	A	87-067-703-010		TAPPING SCREW, BVT2+3-10
4	87-AR4-048-010		KNOB,RTRY BAL SIL	B	87-067-688-010		BVTT+3-6
5	87-AR4-049-010		KEY,10 ASSY	C	87-067-758-010		BVT2+3-12 W/O SLOT
6	87-AR4-046-010		KNOB,RTRY VOL SIL	D	87-B10-098-010		BVIT3B+3-16 GOLD
7	87-AR4-023-010		WINDOW,DISPLAY<U>	E	87-067-585-010		TAPPING SCREW, BVTT+4-6
7	87-AR4-028-010		WINDOW,DISPLAY H<HE>	F	87-067-586-010		TAPPING SCREW, BVT2+4-8
8	87-B00-002-010		BADGE,AIWA 30 ABS SIL	G	87-591-095-410		TAPPING SCREW, QIT+3-8 (GLD)
9	87-AR4-043-010		KEY,BBE SIL	H	87-067-581-010		TAPPING SCREW, BVT2+3-15
10	87-AR4-006-010		KEY,GEQ	I	87-067-975-010		S-SCREW,IT+4-8
11	87-085-185-010		BUSHING, AC CORD (E)<HE>	J	87-067-641-010		UTT2+3-8(W/O SLOT)BL
11	87-085-189-010		BUSHING, CORD (U)<U>	K	87-067-698-010		BVT2+3-18(W/O,SLOT)
12	86-AR5-023-010		FOOT,FR	L	87-067-579-010		TAPPING SCREW, BVT2+3-8
13	82-VW2-211-010		FELT 20-7.5-2	M	87-067-673-010		TAPPING SCREW, BUTT+3-8 (B)
14	87-AR4-045-010		BTN,SP SIL	N	87-067-632-010		TAPPING SCREW, BVT2+3-15<HE>
15	87-AR3-008-010		KEY,FUN 3<HE>	O	81-653-215-010		SPECIAL SCREW, VT2.6-8<HE>
15	87-AR3-009-010		KEY,FUN 3U<U>	P	87-067-747-010		W,4.3-14-1
16	87-AR4-041-010		KEY,POWER SIL				
17	87-AR4-005-110		KEY,DSP				
18	87-AR4-036-010		CABI,STEEL H				
19	87-AR3-003-010		PANEL,REAR HEJSN<HE>				
19	87-AR3-004-010		PANEL,REAR USN<U>				
△ 20	87-050-053-010		AC CORD ASSY,U-2<U>				

ACCESSORIES / PACKAGE LIST

If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	87-AR3-901-010		IB,H(EC-HN)N<HE>
1	87-AR3-903-010		IB,U(ESF)N<U>
2	87-AR7-650-110		RC UNIT,RC-7AR02
3	87-006-225-010		AM LOOP ANT NC2
4	87-043-115-010		ANT,FEEDER FM
△ 5	87-A90-312-010		PLUG,CONVERSION WTN-1157R1<HE>

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

サービス技術ニュース	
番号	連絡内容
G- --	
G- --	
G- --	

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