

XV-5080

128 VOICES 8x EXPANSION/SAMPLE PLAYBACK

SERVICE NOTES

First Edition
Issued by RJA

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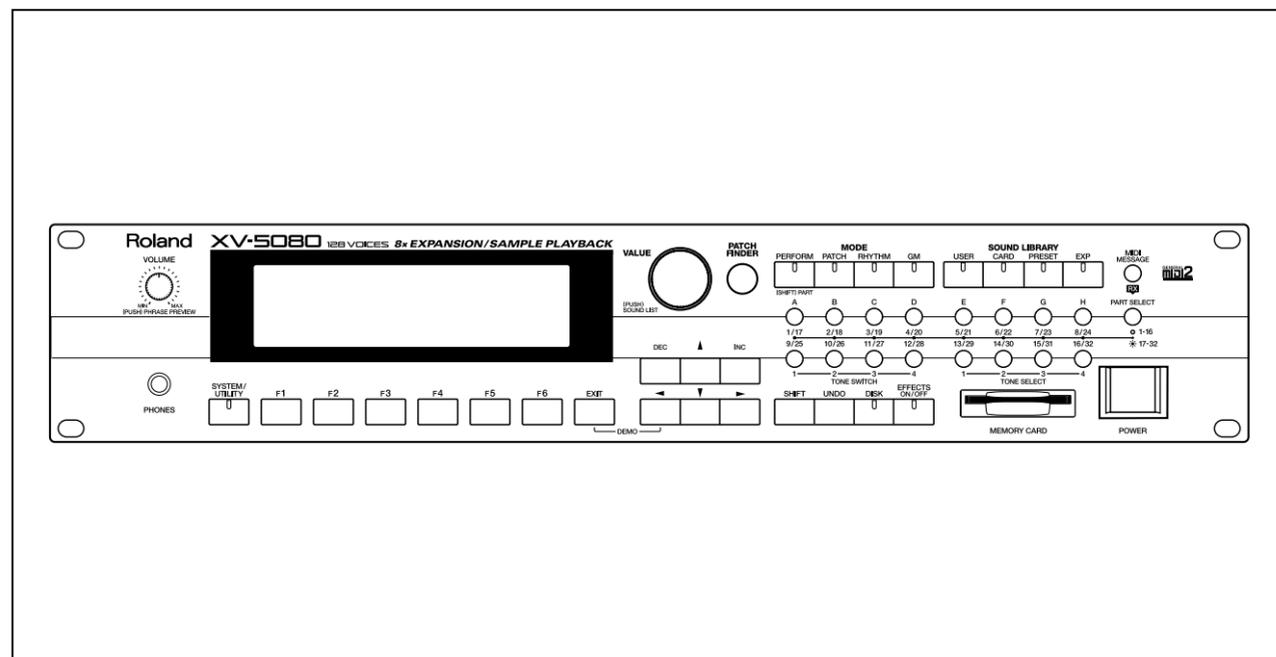
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SPECIFICATIONS

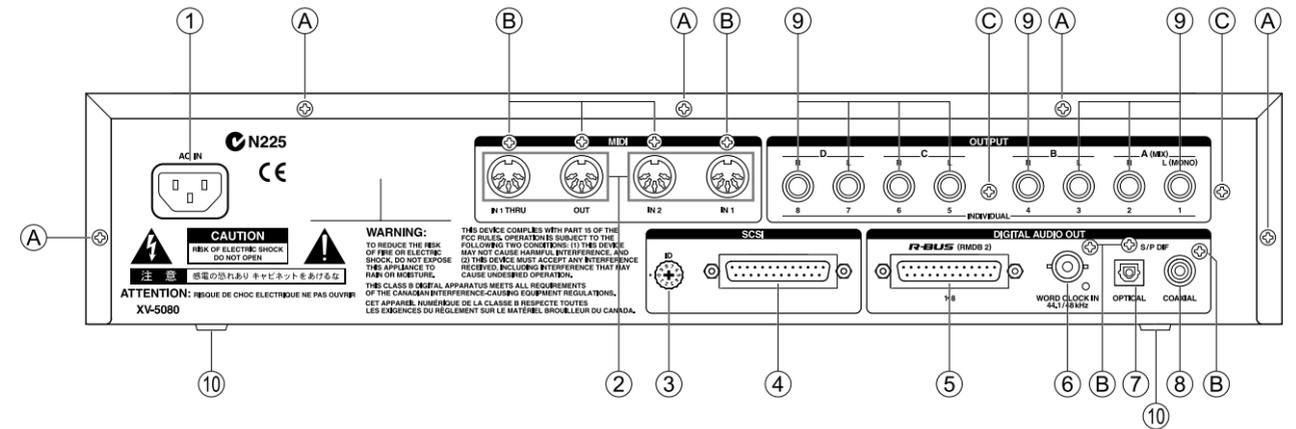
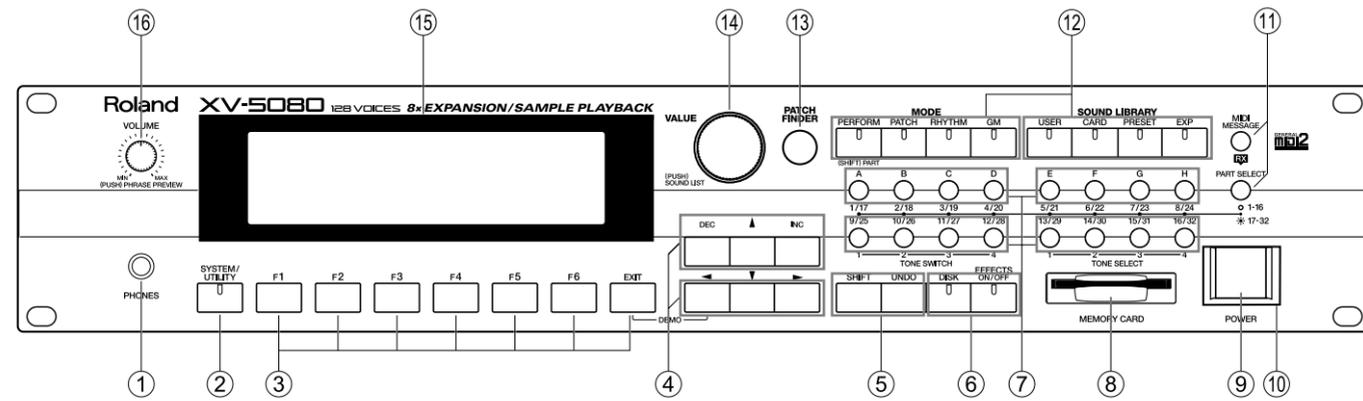
XV-5080 128 voice sound module
GM Level 2 system Compatible

- **Parts**
32
- **Maximum Polyphony**
128 voices
- **Wave memory**
64MB (16-bit linear format)
- **Expansion slots**
Wave Expansion Board
SR-JV80 Series: 4slots
New Wave Expansion Board
SRX Series: 4slots
Two SIMM Slots (Compatible with 72-pin FP/EDO 16/32/64 MB SIMMs for a maximum expansion of 128 MB)
Preset memory
Patch: 896 (128 x 7 banks) + GM Level 2 Patch: 256
Performance: 64 (32 x 2 banks)
Rhythm Sets: 14 (2 x 7 banks) + GMLevel 2 Rhythm Set: 9
- **User memory**
Patch: 128
Performance: 64
Rhythm Set: 4
- **External memory**
SmartMedia card 1slot
(2 - 128 MB, 5 or 3.3 V)
- **Effects**
Multi Effects (MFX): 90 type
(Three different multi-effects can be used simultaneously in Performance mode)
Reverb: 4 type
Chorus: 2 type
2 Band EQ
(can be sent to eight separate outputs when used as system EQ)
- **Display**
320 x 80 dot Graphic LCD (with Backlit)
- **Connectors**
A (MIX) Output (L(MONO), R)
B Output (L, R)
C Output (L, R)
D Output (L, R)
(or Individual 1 - 8)
Digital Audio Out S/P DIF 44.1/48kHz (COAXIAL 1, OPTICAL 1)
Word Clock In (BNC)
SCSI Connector (D-SUB 25pin)
R-BUS Connector (Output Only)
MIDI connector (IN, OUT, THRU)
Phones Jack (Stereo)
- **Power supply**
AC117, 230, 240 V
- **Power Consumption**
25 W
- **Dimensions**
482 (W) x 281 (D) x 88 (H) mm
19 (W) x 11-1/16 (D) x 3-1/2 (H) inches
(EIA-2U rack mount type)
- **Weight**
4.9 kg / 10lbs 13oz
- **Accessories**
Owner's manual
English:(71566556)
Japanese:(71563812)
Owner's manual includes the following parts.
Quickstart manual
Q&A, Sound List

Power cord
100V:(00894367)
120V:(00894378)
230V:(00894389)
240VE:(00907001)
240VA:(23495124)
- **Options**
Wave Expansion Board (SRX series, SR-JV80 series)
* In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.



LOCATION OF CONTROLS



LOCATION OF CONTROLS PARTS LIST

Front panel parts list

NO.	PART CODE	PART NAME	DESCRIPTION	Q'TY
①	01129145	6.5MM JACK STEREO	YKB21-5268(=YKB21-5255)	1
	12199556	JACK SNAP	MET41-0105	1
②	02011412	Y S-KEYTOP	SD1H BLK	1
	00348490	LED (RED)	SLR-325VCT31	1
	02125945	TACT SWITCH	EVQ 11G 05R	1
③	02011456	Y S-KEYTOP	SX1H BLK	7
	02125945	TACT SWITCH	EVQ 11G 05R	7
④	02011478	Y S-KEYTOP	SX3H BLK	2
	02125945	TACT SWITCH	EVQ 11G 05R	6
⑤	02011467	Y S-KEYTOP	SX2H BLK	1
	02125945	TACT SWITCH	EVQ 11G 05R	2
⑥	02011423	Y S-KEYTOP	SD2H BLK	1
	02125945	TACT SWITCH	EVQ 11G 05R	2
⑦	01780834	F C-KEYTOP	SX4H CLR	4
	02125945	TACT SWITCH	EVQ 11G 05R	1
	00560745	LED (GREEN)	SLR-325MCT31	16
⑧	01786712	ESCUTCHEON		1
	01780712	CARD CONECTR	CN015P-3013-0	1
⑨	22495565	F S-BUTTON	MX BLK	1
	02013567	PUSH SWITCH	ESB92S21B TV-5 5A/250V	1
⑩	01459789	BUTTON ESCUTCHEON	F B-ESCT MX1H-A BLK	1
⑪	01670490	F C-KEYTOP	SX1H CLR	2
	02125945	TACT SWITCH	EVQ 11G 05R	1
	00560745	LED (GREEN)	SLR-325MCT31	2
⑫	02011445	Y S-KEYTOP	SD4H BLK	4
	02125945	TACT SWITCH	EVQ 11G 05R	1
	00348490	LED (RED)	SLR-325VCT31	16
⑬	02013090	F C-KEYTOP	MX1H CLR	1
	02125945	TACT SWITCH	EVQ 11G 05R	1
	02011856	LED (ORG)	SLR-56DCT32	1
⑭	22480321	S R-KNOB	L BLK 248-321	1
	02014145	ROTARY ENCODER	EC16B36244 (L=20.DCUT=7)	1
⑮	02128689	LCD	RCM6048T-A	1
	22065240	DISPLAY COVER	206-240	1
⑯	01899212	P R-KNOB	MF-A BLK/LCG	1
	02013656	9M/M ROTARY POTENTIOMETER	RK0971224 10KBX2 W/SW	1

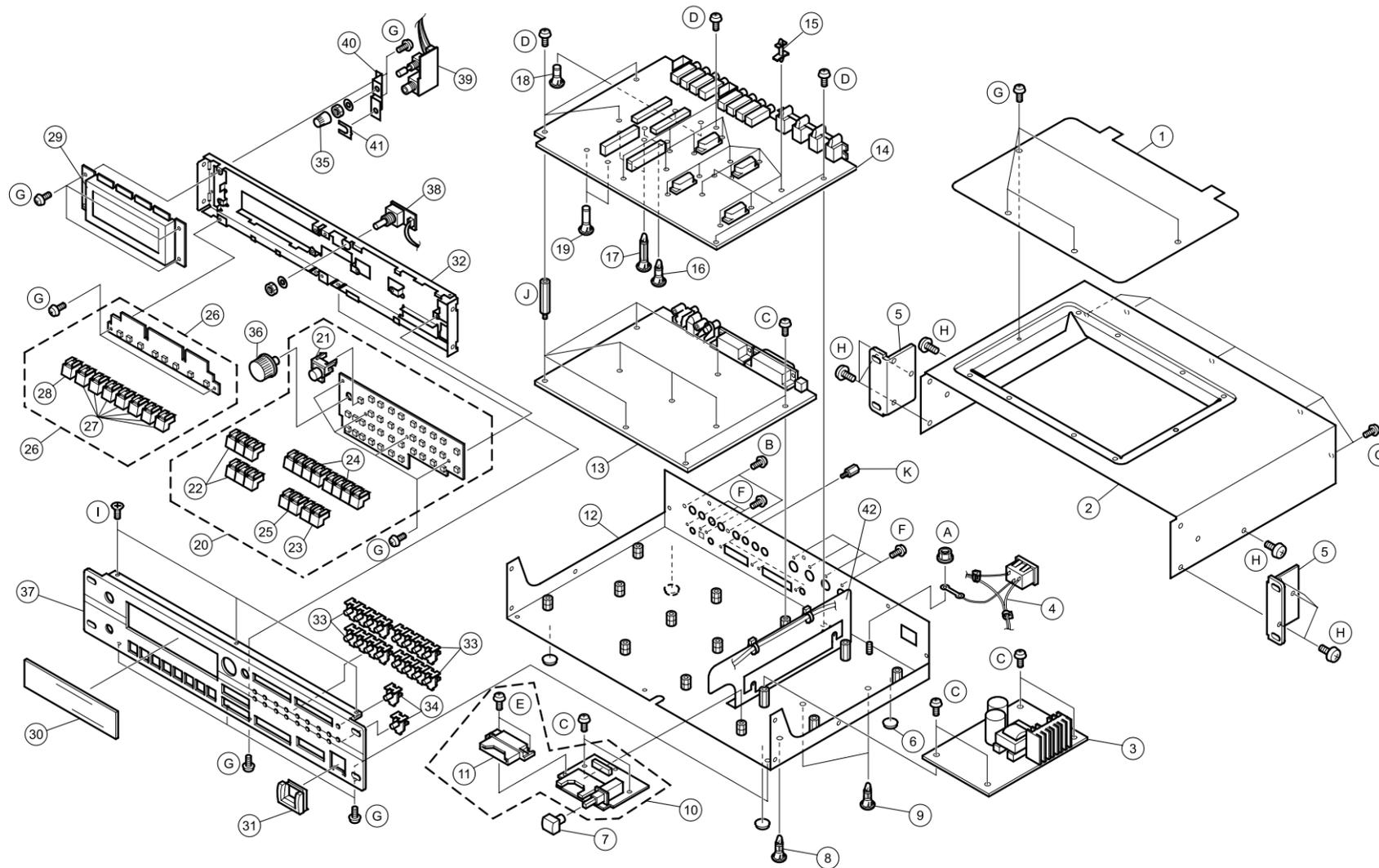
Rear panel parts list

No.	PART CODE	PART NAME	DESCRIPTION	Q'TY
①	01901801	WIRING	W7	1
②	13429676	MIDI CONNECTOR	YKF51-5048 (TWIN)	2
③	02128367	ROTARY DIGITAL SWITCH	KWC10H	1
④	02019667	D-SUB CONNECTOR	YKF42-8035	1
⑤	01898389	D-SUB CONNECTOR	YKF42-8034	1
⑥	02120734	BNC CONNECTOR	COH2201-A	1
⑦	01239078	IC (OPTICAL DIGITAL OUT)	TOTX178A	1
⑧	01343723	RCA(PIN) JACK	YKC21-3117(ORANGE)	1
⑨	13449283	6.5MM JACK	HLJ7101-01-3010	8
⑩	12359137	RUBBER FOOT	SJ-5012 BLK	4

[SCREW]

No.	PART CODE	PART NAME	DESCRIPTION	Q'TY
Ⓐ	40011090	SCREW 3X6	BINDING TAPTITE B BZC	5
Ⓑ	40011312	SCREW 3X8	BINDING TAPTITE P BZC	7
Ⓒ	40011501	SCREW M3X8	PAN MACHINE W/SW+PW BZC	2

EXPLODED VIEW



[SCREW]

NO.	PART CODE	PART NAME	DESCRIPTION	Q'TY
(A)	40011745	HEX NUT M4	SPRING NUT ZC	1
(B)	40011501	SCREW M3X8	PAN MACHINE W/SW+PW BZC	2
(C)	40013067	SCREW M3X8	PAN MACHINE W/SW+SMALL PW ZC	8
(D)	40015945	SCREW 3X8	BINDING TAPTITE S ZC	9
(E)	40011278	SCREW 3X8	BINDING TAPTITE P ZC	2
(F)	40011312	SCREW 3X8	BINDING TAPTITE P BZC	7
(G)	40011090	SCREW 3X6	BINDING TAPTITE B BZC	25
(H)	40012345	SCREW 4X10	BINDING TAPTITE B BZC	8
(I)	40011156	SCREW 3X8	FLAT TAPTITE B BZC	3
(J)	02126734	BOSS NUT M3/M3	L28.6	7
(K)	This part is included the following part.			
	02019667	YKF12-8035	D-SUB CONNECTOR	
	01898389	YKF42-8034	D-SUB CONNECTOR	

EXPLODED VIEW PARTS LIST

[PART]

NO.	PART CODE	PART NAME	DESCRIPTION	Q'TY
(1)	02013212	EXP COVER		1
(2)	02013201	TOP COVER		1
(3)	01121234	SWITCHING REGULATOR	RH2	1
(4)	01901801	WIRING	W7	1
(5)	22125586	RACK ANGLE	2U	2
(6)	12359137	RUBBER FOOT	SJ-5012 BLK	4
(7)	22495565	F S-BUTTON	MX BLK	1
(8)	12199562	PCB SPACER	KGLS-10R (BLACK)	1
(9)	02236456	PCB SPACER	KGLS-14RT	2
(10)	71563878	MEDIA ASSY		1
	MEDIA ASSY include the following parts			
(11)	01786712	ESCUTCHEON		1
(12)	71672990	BOTTOM CHASSIS ASSY		1
	BOTTOM CHASSIS ASSY include the following parts			
(42)	02013078	PWR SPLY COVER		1
(13)	71563845	MAIN BOARD ASSY	(EXG)	1
(14)	71563867	EXP BASE BOARD ASSY		1
	EXP BASE BOARD ASSY includes the following parts.			
(15)	12189810	PCB SPACER	WLS-14-094VO	12
(16)	02019034	PWB SPACER	RSPLS-12L	2
(17)	02120434	PWB SPACER	RSPLS-18L	2
(18)	01902756	PWB SPACER	RSPS-12L	2
(19)	02120445	PWB SPACER	RSPS-18L	2
(20)	71563901	PANEL-A KEYTOP ASSY		1
	PANEL-A KEYTOP ASSY includes the following parts.			
(21)	02013090	F C-KEYTOP	MX1H CLR	1
(22)	02011478	Y S-KEYTOP	SX3H BLK	2
(23)	02011423	Y S-KEYTOP	SD2H BLK	1
(24)	02011445	Y S-KEYTOP	SD4H BLK	2
(25)	02011467	Y S-KEYTOP	SX2H BLK	1
(26)	71563923	PANEL-B KEYTOP ASSY		1
	PANEL-B KEYTOP ASSY includes the following parts.			
(27)	02011456	Y S-KEYTOP	SX1H BLK	7
(28)	02011412	Y S-KEYTOP	SD1H BLK	1
(29)	02128689	LCD	RCM6048T-A	1
(30)	22065240	DISPLAY COVER	206-240	1
(31)	01459789	BUTTON ESCUTCHEON	F B-ESCT MX1H-A BLK	1
(32)	02019745	FRONT HOLDER		1
(33)	01780834	F C-KEYTOP	SX4H CLR	4
(34)	01670490	F C-KEYTOP	SX1H CLR	2
(35)	01899212	P R-KNOB	MF-A BLK/LCG	1
(36)	22480321	S R-KNOB	L BLK 248-321	1
(37)	02019734	FRONT PANEL		1
(38)	71563945	ENCODER BOARD ASSY		1
(39)	71563956	PHONES HOLDER ASSY		1
	PHONES HOLDER ASSY includes the following parts.			
(40)	02236567	PHONES HOLDER		1
(41)	12199556	JACK SNAP	MET41-0105	

PARTS LIST

SAFETY PRECAUTION:*1
 The parts marked Δ have safety-related characteristics. Use only listed parts for replacement.

The parts marked # are new (initial parts). *2

CONSIDERATIONS ON PARTS ORDERING
 When ordering any parts listed in the parts list, please specify the following items in the order sheet.
 QTY PART NUMBER DESCRIPTION MODEL NUMBER
 Ex 10 22575241 Sharp key C-20/50
 15 2247017300 Knob (orange) DAC-15D
 Failure to completely fill the above items with correct number and description will result in delayed or even undelivered replacement.

NOTE: Consider about the natural environment carefully before through the old lithium battery away when you exchange to the new one.

*1 *2
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				Q'ty
CASING				
#	22125586	RACK ANGLE	2U	2
	02013212	EXP COVER		1
	02013201	TOP COVER		1
	22065240	DISPLAY COVER	206-240	1
	01459789	BUTTON ESCUTCHEON	F B-ESCT MX1H-A BLK	1
#	02019734	FRONT PANEL		1
CHASSIS				
#	71672990	BOTTOM CHASSIS ASSY		1
	NOTE: 'BOTTOM CHASSIS ASSY' includes the following parts.			
#	02019756	BOTTOM CHASSIS		1
	02013078	PWR SPLY COVER		1
	40011090	SCREW 3X6	BINDING TAPTITE B FE BZC	2
#	02019745	FRONT HOLDER		1
KNOB, BUTTON				
	22495565	F S-BUTTON	MX BLK	1
	01670490	F C-KEYTOP	SX1H CLR	2
	01780834	F C-KEYTOP	SX4H CLR	4
	01899212	P R-KNOB	MF-A BLK/LCG	1
	22480321	S R-KNOB	L BLK 248-321	1
SWITCH				
#	02128367	KWC10H	ROTARY DIGITAL SWITCH	1
			SW2 on Main Board	
Δ	02013567	ESB92S21B TV-5 5A/250V	PUSH SWITCH	1
			SW46 on Media Board	
#	02125945	EVQ 11G 05R	TACT SWITCH	37+8
			on Panel A, on PanelB	
JACK, EXP TERMINAL				
#	02120734	BNC CONNECTOR	COH2201-A	1
			JK2 on Main Board	
	01343723	YKC21-3117(ORANGE)	RCA(PIN) JACK	1
			JK1 on Main Board	
#	02019667	YKF42-8035	D-SUB CONNECTOR	1
			CN9 on Main Board	
	01898389	YKF42-8034	D-SUB CONNECTOR	1
			CN8 on Main Board	
	13429676	YKF51-5048 (TWIN)	MIDI CONNECTOR	2
			JK8,JK4 on EXP Base Board	
	13449283	HLJ7101-01-3010	6.5MM JACK	8
			JK1,JK10,JK9,JK7,JK6,JK5,JK2,JK3 on EXP Base Board	
	01780712	CN015P-3013-0	CARD CONECTR	1
			CN7 on Media Board	
	01129145	YKB21-5268(=YKB21-5255)	6.5MM JACK STEREO	1
			JK1 on Phones Board	

DISPLAY UNIT

#	Δ 02128689	RCM6048T-A	LCD	1
	NOTE: Replacement RCM6048T-A should be made on a unit base.			

POWER SUPPLY UNIT

#	Δ 01121234	RH2	SWITCHING REGULATOR	1
	NOTE: Replacement RH2 should be made on a unit base.			

PCB ASSY

#	\square 71563845	MAIN BOARD ASSY	(EXG)	1
	NOTE: 'MAIN BOARD ASSY' includes the following parts.			
#	02233178	RIBBON CABLE	6X120-P2.0	1
	40342856	COATING CLIP	CP-1S	1
#	71563867	EXP BASE BOARD ASSY		1
	NOTE: 'EXP BASE BOARD ASSY' includes the following parts.			
	12189810	PCB SPACER	WLS-14-094VO	12
	02019034	PWB SPACER	RSPLS-12L	2
#	02120434	PWB SPACER	RSPLS-18L	2
#	02120445	PWB SPACER	RSPS-18L	2
	01902756	PWB SPACER	RSPS-12L	2
	12199584	GROUNDING TERMINAL	M1698	2
			TER2,TER1 on EXP Base Board	
	40342856	COATING CLIP	CP-1S	1
#	71563878	MEDIA ASSY		1
	NOTE: 'MEDIA ASSY' includes the following parts.			
	01786712	ESCUTCHEON		1
	40011278	SCREW 3X8	BINDING TAPTITE P FE ZC	2
#	71563901	PANEL-A KEYTOP ASSY		1
	NOTE: 'PANEL-A KEYTOP ASSY' includes the following parts.			
#	02011423	Y S-KEYTOP	SD2H BLK	1
	02011445	Y S-KEYTOP	SD4H BLK	2
#	02011467	Y S-KEYTOP	SX2H BLK	1
	02011478	Y S-KEYTOP	SX3H BLK	2
	02013090	F C-KEYTOP	MX1H CLR	1
#	71563956	PHONES HOLDER ASSY		1
	NOTE: 'PHONES HOLDER ASSY' includes the following parts.			
#	02236567	PHONES HOLDER		1
	12199556	JACK SNAP	MET41-0105	1
#	02019689	WIRING	11X125-P2.0-SB20-JB20-F	1
			CN5 on Phones Board	
	40342856	COATING CLIP	CP-1S	1
#	71563923	PANEL-B KEYTOP ASSY		1
	NOTE: 'PANEL-B KEYTOP ASSY' includes the following parts.			
	02011412	Y S-KEYTOP	SD1H BLK	1
#	02011456	Y S-KEYTOP	SX1H BLK	7
#	71563945	ENCODER BOARD ASSY		1
	NOTE: 'ENCODER BOARD ASSY' includes the following parts.			
#	02019678	WIRING	4X125-P2.0-SB20-JB20-F	1
			CN2 on Encoder Board	

IC				
	01672867	M38881M2-069FP	IC CPU	IC107 on Main Board 1
#	02015556	HD6437042AA13F VER1.00	IC (32BIT CPU)	IC3 on Main Board 1
	00893356	SYM53CF92	IC (SIO)	IC53 on Main Board 1
#	01455956	TC223C660CF-503	IC (RA08-503)	IC12,IC13 on Main Board 2
	01342978	TC160G22AF-1253	IC (CUSTOM)	IC4 on Main Board 1
	01902212	UPD431000AGW-70LL-E2	IC (SRAM)	IC6,IC84 on Main Board 2
	01125112	TC55257DFL-70L(EL)	IC (SRAM)	IC52 on Main Board 1
	02010290	VG2618165CJ-6-EL-10	IC (DRAM)	IC19,IC18 on Main Board 2
#	01784023	MSM5117805D-60JSR1	IC (DRAM)	IC118,IC117 on Main Board 2
	02010056	UPD23C128040LGY-850-MJH	IC (MASK ROM)	IC29 on Main Board 1
	02010023	UPD23C128040LGY-849-MJH	IC (MASK ROM)	IC26 on Main Board 1
	01561945	LH28F160S5T-L70	IC (FLASH MEMORY)	IC1 on Main Board 1
	01451578	AK4324-VF-E2	IC (DAC)	IC71,IC74,IC79,IC82 on Main Board 4
	01901989	TC7SET04F(TE85L)	IC (CMOS)	IC112,IC113 on Main Board 2
	15259884	TC7S08F(TE85L)	IC (CMOS)	IC50,IC76 on Main Board 2
	15259823T0	TC74HC574AF(EL)	IC (CMOS)	IC58 on Main Board 1
	15259809T0	TC74HC393AF(EL)	IC (CMOS)	IC86 on Main Board 1
#	02017034	TC7W53FU(TE12L)	IC (COMS)	IC30,IC32 on EXP Base Board ,IC45 on Main Board 1+2
	15249111	TC7WU04F(TE12L)	IC (CMOS)	IC17,IC15,IC7,IC55 on Main Board 4
	15249104	TC7S04F(TE85L)	IC (CMOS)	IC54,IC111 on Main Board 2
	15249112	TC7W32F(TE12L)	IC (CMOS)	IC85,IC110 on Main Board 2
	15259708T0	TC74HC08AF(TP2)	IC	IC116 on Main Board 1
	15259720T0	TC74HC74AF(TP2)	IC (HS-CMOS)	IC115 on Main Board 1
	15259726T0	TC74HC107AF	IC	IC23 on Main Board 1
	15259769T0	TC74HC238AF(EL)	IC (CMOS)	IC57 on Main Board 1
	00232645	TC7W14F(TE12L)	IC (CMOS)	IC114 on Main Board 1
	15259706T0	TC74HCU04AF(EL)	IC (HS-CMOS)	IC41 on Main Board 1
	15259716T0	TC74HC32AF(TP2)	IC (HS-CMOS)	IC63 on Main Board 1
#	15259752T0	TC74HC163AF(EL)	IC (COMS)	IC40,IC39 on Main Board 2
	00346490	TC3W01F(TE12L)	IC (CMOS)	IC25 on Main Board 1
	00893967	TC74VHC153F(EL)	IC (CMOS)	IC16 on Main Board 1
	01121845	TC7W04FU TE12L	IC (CMOS)	IC101 on Main Board 1
	01341578	TC74VHC14F(EL)	IC (TTL SCHMITT TRIGGER INV.)	IC48 on Main Board 1
	00127490	TC7W08F(TE12L)	IC (CMOS)	IC105,IC8 on Main Board 2
#	02017056	TC74VHC126F(EL)	IC (COMS)	IC43 on Main Board 1
	00564545	TC74VHC04F(EL)	IC (CMOS)	IC16,IC38 on EXP Base Board ,IC46 on Main Board 1+2
#	02017045	TC74VHCT541AFT(EL)	IC (COMS)	IC28,IC27 on Main Board 2
	01670789	TC74VHCT08AF	IC (CMOS)	IC60 on Main Board 1
	00893978	TC74VHC393F(EL)	IC (CMOS)	IC20 on Main Board 1
	01348956	TC7SH00FU(TE85L)	IC (CMOS)	IC109 on Main Board 1
	01455312	TC7WH74FU	IC (CMOS)	IC37 on Main Board 1
	00236878	TC74VHC74F-EL	IC (CMOS)	IC21,IC49,IC108 on Main Board 3
	01783523	TC74VHCT245AFT(EL)	IC (CMOS)	IC9,IC11 on EXP Base Board ,IC104 on Main Board 1+2
	02124934	TC74VHC541FTEL	IC (CMOS)	IC103,IC62 on Main Board 2
	15289106	M5238AFP-600C	IC (JFET OP AMP)	IC9 on Main Board 1
	15289117	NJM5532MD-TE1	IC (OP AMP)	IC73,IC70,IC83,IC81,IC80,IC78,IC75,IC72 8+1 on Main Board ,IC1 on Phones Board
	15189261	M5218AFP-600E	IC (BIPOLAR OP AMP)	IC69,IC11 on Main Board 2
	15199137	AN7805F	IC (V.RGL)	IC77,IC68 on Main Board 2
	15199286	AN78L05M-(E1)	IC (REGULATOR)	IC36,IC22 on Main Board 2
	01899790	UPC29L33T-E2	IC (REGULATOR)	IC66 on Main Board 1
	01678512	UPC2933T-T2	IC REGULATOR	IC14 on Main Board 1
	15199284	PQ30RV1	IC (V.RGL)	IC56 on Main Board 1
	15199944	SED1335F0B	IC (DRIVER)	IC51 on Main Board 1
	00892512	TLC2932IPW	IC (PLL)	IC24,IC42 on Main Board 2
	01785178	TC9271FS	IC	IC38 on Main Board 1
	15289123	M51953AFP-600C	IC (RESET)	IC10 on Main Board 1
	01239078	TOTX178A	IC (OPTICAL DIGITAL OUT)	CN7 on Main Board 1
	15269219H0	HD74LS05FPEL	IC (TTL)	IC37 on EXP Base Board 1
	15259864T0	TC74HC4052AF(EL)	IC (CMOS)	IC15 on EXP Base Board 1
	15249121	TC7W04F(TE12L)	IC (CMOS)	IC18 on EXP Base Board 1

	01670734	TC74VHC541F	IC (CMOS)	IC26,IC24 on EXP Base Board 2
	01906534	TC74VHCT32AF(EL)	IC (CMOS)	IC3,IC39 on EXP Base Board 2
	01122267	TC74VHCT245F(EL)	IC	IC25,IC2,IC27 on EXP Base Board 3
#	02120367	TC74VHC11F(EL)	IC (COMS)	IC28,IC34 on EXP Base Board 2
	00231889	TC74VHC32F(EL)	IC (CMOS)	IC22,IC19,IC33,IC12 on EXP Base Board 4
	00236834	TC74VHC21F(EL)	IC	IC14 on EXP Base Board 1
	00567534	TC74VHC138F(EL)	IC (CMOS)	IC4,IC1 on EXP Base Board 2
	00670290	TC74VHC139F(EL)	IC (CMOS)	IC20,IC21,IC29,IC17 on EXP Base Board 4
	00236845	TC74VHC245F(EL)	IC (CMOS)	IC10,IC13,IC8,IC7,IC6,IC5 on EXP Base Board 6
#	02016745	BA033FP-E2	IC (REGULATOR)	IC23 on EXP Base Board 1
	15289125	PC-410KT 178FAY	IC (PHOTO COUPLER)	IC36,IC35 on EXP Base Board 2

TRANSISTOR

	15309113	2SA1213-O(TE12R.C)	TRANSISTOR	Q32 on Main Board 1
	01121278	2SA1576A T106 QRS	TRANSISTOR	Q1 on Main Board 1
	00901523	2SA1681 (SC-62)(POW SW)	TRANSISTOR	Q23 on Main Board 1
	15319101	2SC2412KR T146	TRANSISTOR	Q24,Q25 on Main Board 2
	15319105	2SC3326-A	TRANSISTOR	Q17,Q20,Q19,Q30,Q18,Q29,Q21, Q22,Q27,Q28 on Main Board 10
	15319114	2SC2873-Y(TE12R.C)	TRANSISTOR	Q31 on Main Board 1
	01783612	RN2426(TE85L)	TRANSISTOR	Q3,Q4,Q5,Q6,Q16 on Main Board 5
	15329521	RN1307(TE85R)	TRANSISTOR	Q2,Q26 on Main Board 2
	01451245	RN1414(TE85L)	TRANSISTOR	Q8,Q11,Q9,Q13,Q12,Q14,Q7,Q10 on Main Board 8
	15329503	DTA124EK T146	DIGITAL TRANSISTOR	Q1 on EXP Base Board 1

DIODE

	01780045	RB051L-40	SCHOTTKY DIODE	D4,D3 on Main Board 2
	01017512	RB411D T146	SCHOTTKY DIODE	D8 on Main Board 1
	02233890	DCB010-TB	ARRAY DIODE	D1 on Main Board 1
	15339130	MA142WK-(TX)	ARRAY DIODE	DA4,DA15 on Main Board 2
	01897189	MA147-(TX)	ARRAY DIODE	DA18,DA17,DA16,DA14,DA13,DA12, DA3,DA2,DA11,DA1,DA6,DA7,DA8, DA9,DA10 on Main Board 15
	01456456	UDZ TE-17 13B	ZENER DIODE	D5 on Main Board 1
	15339119T0	1SS352(TPH3)	SWITCHING DIODE	D1,D2 on EXP Base Board 2
	15339109	DAP202K T146 (CHIP)	ARRAY DIODE	DA4,DA1,DA2,DA3,DA5,DA6,DA7, DA8,DA9,DA10,DA11,DA12,DA13, DA14,DA15,DA16,DA17,DA19,DA18 on Panel-A Board,DA21,DA22,DA23, DA20 on Panel-B Board 19+4
	00348490	SLR-325VCT31	LED (RED)	LED5,LED26,LED8,LED6,LED27,LED4, 10+1 LED3,LED2,LED1,LED7 on Panel-A Board,LED30 on Panel-B Board
	00560745	SLR-325MCT31	LED (GREEN)	LED18,LED28,LED24,LED23,LED22, LED21,LED20,LED19,LED16,LED14, LED13,LED12,LED11,LED29,LED9,L ED17,LED10,LED15 on Panel-A Board
	02011856	SLR-56DCT32	LED (ORG)	LED25 on Panel-A Board 1

RESISTOR

	00566867	RPC05T 100 J	MTL.FILM RESISTOR	R374,R402,R42,R41,R39,R24,R11, R10,R40,R403 on Main Board 10
	15399713	MCR25 JZH J 101	MTL.FILM RESISTOR	R141,R147,R140,R142,R143,R144, R145,R146 on Main Board 8
	01011856	RPC05T 0R0 J	MTL.FILM RESISTOR	R56,R21,R20,R16,R9,R57,R112,R118, R383,R360,R270,R224 on Main Board 12
	00566934	RPC05T 330 J	MTL.FILM RESISTOR	R22,R59 on Main Board 2
	00567023	RPC05T 101 J	MTL.FILM RESISTOR	R151,R338,R339,R385 on Main Board 4
	00567289	RPC05T 103 J	MTL.FILM RESISTOR	R149,R36,R155,R160,R154,R150,R158, R148,R114,R106,R54,R288,R382,R55, R30,R405,R404,R401,R387,R379,R381, R290,R378,R375,R373,R372,R371,R294, R292,R159,R25,R23,R19,R7,R6,R5,R1, R29,R284 on Main Board 39
	15399301	RPC10T 0R0 J	MTL.FILM RESISTOR	C89,C101,R29,C121,C120,C119,C118,R2, C104,C99,C96,C94,C87,R28,R5,R4,R3,C106 on EXP Base Board ,R179 on Main Board 1+18
	00566912	RPC05T 220 J	MTL.FILM RESISTOR	R116 on Main Board 1

15399349	RPC10T 100 J 1/10W	MTL.FILM RESISTOR	R227,R197,R248,R165 on Main Board	4
15399469	RPC10T 105 J 1/10W	MTL.FILM RESISTOR	R393,R394 on Main Board	2
00566967	RPC05T 470 J	MTL.FILM RESISTOR	R103,R287,R286,R285,R283,R282, R280,R279,R281,R98 on Main Board	10
00567001	RPC05T 750 J	MTL.FILM RESISTOR	R95,R109 on Main Board	2
00567067	RPC05T 221 J	MTL.FILM RESISTOR	R110,R97,R12 on Main Board	3
00567556	RPC05T 105 J	MTL.FILM RESISTOR	R48,R52,R115,R15 on Main Board	4
00567201	RPC05T 272 J	MTL.FILM RESISTOR	R60 on Main Board	1
00567178	RPC05T 152 J	MTL.FILM RESISTOR	R96 on Main Board	1
00567134	RPC05T 681 J	MTL.FILM RESISTOR	R26 on Main Board	1
00567112	RPC05T 471 J	MTL.FILM RESISTOR	R117,R53,R49,R17 on Main Board	4
00567101	RPC05T 391 J	MTL.FILM RESISTOR	R139 on Main Board	1
00567089	RPC05T 331 J	MTL.FILM RESISTOR	R62 on Main Board	1
00567290	RPC05T 123 J	MTL.FILM RESISTOR	R27 on Main Board	1
15399373	RPC10T 101 J 1/10W	MTL.FILM RESISTOR	R6,R16,R17,R18,R12,R21,R23,R8,R13, R9,R7 on EXP Base Board , R219,R220 on Main Board ,R1,R5 on Phones Board	2+1 +2
15399381	RPC10T 221 J 1/10W	MTL.FILM RESISTOR	R26,R19,R24,R22 on EXP Base Board ,R216 on Main Board	1 +4
15399393	RPC10T 681 J 1/10W	MTL.FILM RESISTOR	R187,R200,R209,R229,R240,R250, R259,R192 on Main Board	8
15399397	RPC10T 102 J 1/10W	MTL.FILM RESISTOR	R183,R169,R222 on Main Board,R3, R6 on Phones Board	3+2
15399401	RPC10T 152 J 1/10W	MTL.FILM RESISTOR	R221 on Main Board	1
15399409	RPC10T 332 J 1/10W	MTL.FILM RESISTOR	R234,R196,R205,R214,R245,R264, R191,R255 on Main Board	8
15399411	RPC10T 392 J 1/10W	MTL.FILM RESISTOR	R199,R208,R212,R232,R203,R185, R184,R171,R170,R228,R243,R239, R258,R262,R249,R253 on Main Board	16
15399415	RPC10T 562 J 1/10W	MTL.FILM RESISTOR	R163,R174 on Main Board	2
15399419	RPC10T 822 J 8.2K OHM 1/10W	MTL.FILM RESISTOR	R251,R164,R188,R189,R193,R194,R201, R202,R210,R211,R230,R231,R241,R175, R261,R242,R252,R260 on Main Board	18
15399421	RPC10T 103 J 1/10W	MTL.FILM RESISTOR	R1,R25,R20,R14,R10 on EXP Base Board, R254,R182,R168,R213,R217,R244,R204, R195,R263,R190,R233 on Main Board,R4, R8 on Phones Board	11+ 5+2
15399425	RPC10T 153 J	MTL.FILM RESISTOR	R198,R235,R186,R167,R172,R206, R207,R226,R238,R246,R247,R181, R256,R257,R265,R215 on Main Board	16
15399445	RPC10T 104 J 1/10W	MTL.FILM RESISTOR	R218 on Main Board	1
15399952	MCR50JZH470 1/2W	CHIP RESISTOR	R180,R166 on Main Board ,R2,R7 on Phones Board	2+2
00567312	RPC05T 183 J	MTL.FILM RESISTOR	R43,R44 on Main Board	2
00567378	RPC05T 473 J	MTL.FILM RESISTOR	R223,R108 on Main Board	2
# 00567367	RPC05T 393 J	MTL.FILM RESISTOR	R61 on Main Board	1
00567323	RPC05T 223 J	MTL.FILM RESISTOR	R4,R28,R33,R3,R295,R63,R296, R399,R400,R113 on Main Board	10
00567412	RPC05T 104 J	MTL.FILM RESISTOR	R35 on Main Board	1
00783812	RPC10T 111 J	MTL.FILM RESISTOR	R136,R130,R131,R132,R133,R135,R127, R134,R128,R126,R125,R124,R123,R122, R121,R120,R119,R129 on Main Board	18
00908389	MCR100JZH J 331	MTL.FILM RESISTOR	R269,R268,R267,R266 on Main Board	4
00567212	RPC05T 332 J	MTL.FILM RESISTOR	R13,R152,R153,R384 on Main Board	4
00567245	RPC05T 472 J	MTL.FILM RESISTOR	R396,R395 on Main Board	2
00567156	RPC05T 102 J	MTL.FILM RESISTOR	R32,R34,R137,R138,R8 on Main Board	5
01898345	ERY43SA125VA	THERMISTOR	R406 on Main Board	1
01450490	NTH5G1M33B103J	THERMISTOR RESISTOR	R31 on Main Board	1
01457145	EXBE10C103J	RESISTOR ARRAY	RA22,RA80,RA78,RA61,RA62,RA25, RA19,RA35,RA40,RA17,RA2,RA3, RA30,RA16 on Main Board	14
01013923	EXBV8V100JV	RESISTOR ARRAY	RA36,RA28,RA29,RA31,RA27,RA33, RA34,RA38,RA39,RA41,RA42,RA74, RA75,RA21,RA20,RA32,RA24,RA23, RA26,RA37 on Main Board	20
15409113	EXBV8V103JV	RESISTOR ARRAY	RA81,RA50,RA56,RA53,RA54,RA55,RA52, RA57,RA58,RA60,RA82,RA59 on Main Board	12
00909801	EXBV8V220JV	RESISTOR ARRAY	RA15,RA14 on Main Board	2

15409115	EXBV8V223JV	RESISTOR ARRAY	RA69 on Main Board	1
01457156	EXBE10C332J	RESISTOR ARRAY	RA76 on Main Board	1
00126112	EXBV8V101JV	RESISTOR ARRAY	RA70,RA73,RA71 on Main Board	3
15399365	RPC10T 470 J 1/10W	MTL.FILM RESISTOR	R32,R33,R27 on EXP Base Board	3
15399375	RPC10T 121 J	MTL.FILM RESISTOR	R11,R15 on EXP Base Board	2
# 02238367	MNR34J5ABJ000	RESISTOR-ARRAY	RA56,RA54,RA52 on EXP Base Board	3
15399917	MNR34J5ABJ103	RESISTOR ARRAY	RA14,RA33 on EXP Base Board	2
02013489	MNR35J5RJ103	RESISTOR ARRAY	RA3,RA4,RA50,RA7,RA11,RA13,RA31,RA32, RA1,RA8,RA51 on EXP Base Board	11
00126490	MNR34J5AJ470	RESISTOR ARRAY	RA49,RA48 on EXP Base Board	2

POTENTIOMETER

02013656	RK0971224 10KBX2 W/SW	9M/M ROTARY POTENTIOME- TER	VR1 on Phones Board	1
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CAPACITOR

01674167	ECUV1H100DCV	CERAMIC CAPACITOR	C451,C450 on Main Board	2
15359707R0	GRM40F104Z50PT85 0.1UF/50V	CERAMIC CAPACITOR	C243,C268,C241,C236,C250,C260,C263, C273,C266,C238,C279,C321,C318,C309, C304,C302,C300,C298,C296,C325,C327, C338,C284,C323,C278,C275,C208,C209, C215,C329,C219,C334,C223,C227,C231, C271,C293 on Main Board,C6, C2 on Phones Board	37+2
# 02230290	MCH185C102KK	CERAMIC CAPACITOR	C182,C183,C178,C179,C181,C180 on Main Board	6
01675278	GRM39CH101J50PT	CERAMIC CAPACITOR	C449,C187,C186,C185,C184,C452, C39 on Main Board	7
00567978	GRM39F104Z25PT	CERAMIC CAPACITOR	C1,C11,C10,C9,C8,C47,C440,C7,C6,C5,C3, C46,C439,C438,C437,C436,C435,C434,C433, C4,C20,C44,C43,C34,C30,C28,C448,C447, C15,C432,C13,C444,C56,C443,C441,C17, C45,C16,C27,C14,C446,C177,C431,C158, C159,C160,C163,C165,C169,C170,C171, C155,C175,C152,C188,C192,C194,C195, C196,C87,C84,C83,C80,C198,C54,C201, C173,C133,C98,C99,C100,C101,C103,C104, C105,C106,C107,C108,C157,C132,C203, C134,C135,C136,C137,C140,C141,C142, C144,C145,C148,C149,C151,C131,C72,C63, C200,C61,C60,C78,C76,C421,C59,C58,C341, C74,C64,C57,C96,C55,C53,C52,C51,C50, C49,C48,C425,C427,C430,C70,C66,C67,C68, C343,C69,C344,C420,C65,C62 on Main Board	129
01672423	GRM40CH101J50PT	CERAMIC CAPACITOR	C276 on Main Board ,C1,C5 on Phones Board	1+2
00567867	GRM39B222K50PT	CERAMIC CAPACITOR	C77,C73 on Main Board	2
01674190	ECUV1H150JCV	CERAMIC CAPACITOR	C85,C33,C82,C86,C161,C162,C166, C167,C422,C423,C81 on Main Board	11
01674189	ECUV1H120JCV	CERAMIC CAPACITOR	C32 on Main Board	1
01349312	GRM39F105Z10PT	CERAMIC CAPACITOR	C156,C88,C41,C40,C89,C90,C91, C92,C93 on Main Board	9
00567945	GRM39B103K50PT	CERAMIC CAPACITOR	C143,C153,C139,C191,C190,C189, C19 on Main Board	7
01675190	GRM39CH220J50PT	CERAMIC CAPACITOR	C428 on Main Board	1
01675234	GRM39CH470J50PT	CERAMIC CAPACITOR	C38 on Main Board	1
01675367	GRM39CH471J50PT	CERAMIC CAPACITOR	C29 on Main Board	1
00239412	AMZV0050J122 0200	POLYEST. CAPACITOR	C258,C249,C232,C282,C291,C307, C316,C244 on Main Board	8
00239390	AMZV0050J561 0200	POLYEST. CAPACITOR	C312,C294,C287,C261,C254,C246, C234,C319 on Main Board	8
01564778	RV2-16V100MZ7-R 10UF/16V	CHEMICAL CAPACITOR	C44,C41,C45,C46,C47,C48,C7,C6,C4, C5 on EXP Base Board,C75,C202, C442,C199,C174,C71,C37,C26, C18 on Main Board	9+10
01783467	RV2-16V101MZ7-R	CHEMICAL CAPACITOR	C24 on EXP Base Board,C264,C418, 3+1 C269 on Main Board	3+1
01454889	RA2-16V470MT2 470UF/16V	CHEMICAL CAPACITOR	C335,C339 on Main Board	2

01900834	RA2-16V101M-T2	CHEMICAL CAPACITOR	C253,C245,C331,C317,C308,C292, C233,C259,C210,C228,C226,C220, C214,C211,C283 on Main Board	15+2
02124923	RV3-25V470MZ7-R	CHEMICAL CAPACITOR	C274 on Main Board	1
01893656	ROS-16V101M-T2	CHEMICAL CAPACITOR	C337,C333 on Main Board	2
01783489	RV2-16V470MZ7-R	CHEMICAL CAPACITOR	C66,C65,C90 on EXP Base Board, C2,C429 on Main Board	2+3
01900823	RA2-16V100M-T2	CHEMICAL CAPACITOR	C310,C252,C311,C207,C216,C286, C251,C277,C285,C217 on Main Board	10
01455845	16CV22NP	CHEMICAL CAPACITOR	C138,C154 on Main Board	2
01784412	RV2-16V220MZ7-R	CHEMICAL CAPACITOR	C130,C424,C97 on Main Board	3
01347778	6.3CV220BS 220UF/6.3V	CAPACITOR CHEMICAL	C176,C172 on Main Board	2
01784478	RV2-6V470MZ7-R	CHEMICAL CAPACITOR	C79 on Main Board	1
# 02231323	ECJ2VF1C105Z	CERAMIC CAPACITOR	C70,C78,C77,C76,C75,C73,C69, C74 on EXP Base Board	8
15359206R0	GRM40F104Z25PT10	CERAMIC CAPACITOR	C49,C56,C55,C54,C53,C52,C58,C50,C59, C43,C109,C42,C40,C39,C38,C37,C36, C51,C83,C67,C63,C68,C62,C71,C72,C79, C57,C82,C64,C84,C85,C91,C93,C97, C102,C107,C61,C60,C81,C12,C20,C28, C18,C17,C16,C15,C112,C13,C21,C11, C10,C9,C35,C1,C2,C3,C8,C14,C32,C19, C33,C34,C31,C30,C29,C27,C26,C25,C23, C22 on EXP Base Board	70
# 15359439	ECJ2VB1H182K	CERAMIC CAPACITOR	C95,C86,C88,C92,C98,C100,C105, C103 on EXP Base Board	8
15359615R0	GRM40CH680J50PT10	CERAMIC CAPACITOR	C8,C4 on Phones Board	2

INDUCTOR, COIL, FILTER

00903167	N2012Z601T02 (CHIP)	FERRITE-BEAD	L8,L9,L10,L11,L13,L5,L14,L17,L16,L12, L6,L4,L3,L2,L1,L15,L7 on EXP Base Board,L29,L30,L31,L32,L33,L34,L35, L36,L28,L38,L25,L39,L40,L41,L47,L46, L45,L44,L43,L37,L20,L26,L19,L24,L23, L22,L21,L27,L42 on Main Board	29+ 17
00907856	BLM21A601SPT	FERRITE-BEAD	L1,L3,L2 on Phones Board	3

CRYSTAL, RESONATOR

# 01560001	MA-406 11.2886MHZ	CRYSTAL	X3 on Main Board	1
# 01560012	MA-406 12.2868MHZ	CRYSTAL	X2 on Main Board	1
01893790	MA-406 8.25MHZ	CRYSTAL	X1 on Main Board	1
01124812	MA-406 10MHZ	CRYSTAL	X4 on Main Board	1
01340745	MA-406 12MHZ	CRYSTAL	X6 on Main Board	1
01342145	MA-406 25.000MHZ TE24	CRYSTAL	X5 on Main Board	1

ENCODER

02014145	EC16B36244 (L=20.DCUT=7)	ROTARY ENCODER	EN1 on Encoder Board	1
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CONNECTOR

02019012	26FE-BT-VK-N	CONNECTOR	CN11 on Main Board,CN1 on Panel-A Board	1+1
02120056	24FE-BT-VK-N	CONNECTOR	CN2 on EXP Base Board ,CN2 on Main Board	1+1
01908634	14FE-BT-VK-N	CONNECTOR	CN10 on Main Board	1
13429295	51048-0600(6P)	CABLE HOLDER	CN1 on Main Board	1
# 02120212	28FE-BT-VK-N	CONNECTOR	CN3,CN4 on EXP Base Board,CN6 on Media Board,CN4,CN3,CN14 on Main Board	3+2 +1
# 02233156	SB20-11WS	CONNECTOR	CN16 on Main Board	1
# 02233134	SB20-04WS	CONNECTOR	CN12 on Main Board	1
# 02233123	SB20-12WS	CONNECTOR	CN18 on Main Board	1
02129623	SB20-10WS FOR PCB	CONNECTOR	CN15 on EXP Base Board ,CN17 on Main Board	1+1
# 01909601	12FE-BT-VK-N	CONNECTOR	CN19 on Main Board ,CN4 on Panel-B Board	1+1
# 02232001	SB20-8WS	CONNECTOR	CN1 on EXP Base Board	1
13369601	52147-0610(6P)	WIRE TRAP	CN16 on EXP Base Board	1
13429833	52411-0402 40P	CONNECTOR	CN6,CN7,CN8,CN5 on EXP Base Board	4
# 02010089	TX25-80P-12ST-E1	CONNECTOR	CN11,CN12 on EXP Base Board	2
02010078	TX25-80P-6ST-E1	CONNECTOR	CN10,CN9 on EXP Base Board	2
△ 01901745	B2P4-VH 7A/250V	CONNECTOR	CN3 on Media Board	1

WIRING, CABLE

#	02019690	WIRING	10X175-P2.0-SB20-SB20-F	1
#	△ 02019701	WIRING	8X225-P2.0-SB20-IL-S-F	1
#	△ 02019712	WIRING	12X600-P2.0-SB20-IL-S-F	1
#	△ 01901801	WIRING	W7	1
#	02019834	BAN CARD	BNCD-P=1.25-K-24-120	1
#	02019845	BAN CARD	BNCD-P=1.25-K-28-120	2
#	02121456	BAN CARD	BNCD-P=1.25-K-14-220	1
#	02120667	BAN CARD	BNCD-P=1.25-K-26-100	1
#	02120678	BAN CARD	BNCD-P=1.25-K-12-100	1
#	02232745	BAN CARD	BNCD-S-P=1.25-K-28-280 (W/OGS)	1

TRANSFORMER

12449615	PT-10244-615	PULSE TRANSFORMER	FL1 on Main Board	1
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SCREW

40011090	SCREW 3X6	BINDING TAPTITE B BZC	25
40012345	SCREW 4X10	BINDING TAPTITE B BZC	8
40011312	SCREW 3X8	BINDING TAPTITE P BZC	7
40015945	SCREW 3X8	BINDING TAPTITE S ZC	9
40013067	SCREW M3X8	PAN MACHINE W/SW+SMALL PW ZC	8
40011501	SCREW M3X8	PAN MACHINE W/SW+PW BZC	2
02126734	BOSS NUT M3/M3	L28.6	7
40011745	HEX NUT M4	SPRING NUT ZC	1
40011156	SCREW 3X8	FLAT TAPTITE B BZC	3

PACKING

01122178	PAD FOR PACKING	LOWER PAD	1
01122167	PAD FOR PACKING	UPPER PAD	1
# 02019789	PACKING CASE		1

MISCELLANEOUS

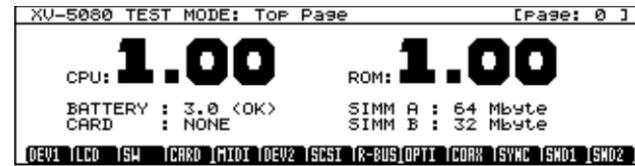
△ 12569249S0	LITHIUM BATTERY	CR2032 220MAH/3V	1
12359137	RUBBER FOOT	SJ-5012 BLK	4
40126812	CAUTION LABEL	BARRIER(100V/117V ONLY)	1
12199562	PCB SPACER	KGLS-10R (BLACK)	1
# 02236456	PCB SPACER	KGLS-14RT	2
40016512	INSULOK TIE	80M/M T-18S	3
13459171	CHECKER CHIP	RCS00000C	1
△ 12569420	LITHIUM BATTERY HOLDER	(HL32-A2) FOR CR2032	1
01126034	IC SOCKET	52706-7220	2
40122812	ACETATE TAPE	NITTO NO.5 BLK W15MM 30M	6
40122934	DOUBLE FACED ADHESHIVE TAPE	#501F W5MM 20M (CM)	33
40014589	WARNING SEAL	102-103	1

ACCESSORIES (STANDARD)

△ 00894367	AC CORD SET	100V SP18A+IS14 VCTF2X0.75	1
△ 00894378	AC CORD SET	120V SP301+IS14 SJT18/3	1
△ 00894389	AC CORD SET	230V SP22+IS14 H05VV-F3G1.0	1
△ 00907001	AC CORD SET	240VE KP-610 GTTBS-3 KS-31A	1
△ 23495124	AC CORD SET	240VA SC-144-JO1 ES303-10HMA	1
# 71563812	OWNER'S MANUAL	JAPANESE	1
# 71566556	OWNER'S MANUAL	ENGLISH	1

IDENTIFYING THE VERSION NUMBER

1. Turn on the power while pressing [EXIT].
2. Pressing [PHRASE PREVIEW] (VOLUME) while the opening message is displayed enables TEST MODE where the Top page appears. The version numbers of the CPU and ROM will appear on the display.



SAVING AND LOADING THE USER DATA

○ Using the SmartMedia

* Before beginning the operation, format the SmartMedia.

• Formatting Procedure

1. Insert the SmartMedia in the memory card slot.
2. Press [DISK].



3. Press [F5](Tool).



4. Press [F1](Format).



5. Press [F1](Drive).
6. Press the cursor key to select "CARD"
7. Press [F6](OK).
 - If desired, you can change the Volume Label by pressing [F4](V.Label).
8. Press [F5](Full) or [F6](Quick), the program will ask you whether to format it.
9. When you press [F6 (OK)], the format is executed.



10. When the formatting ends, the display will show the message "Format Completed!" and press [F6](Accept), the display will return to showing the screen in step4. Pressing [DISK] causes the format screen to disappear.

• Saving the User Data

1. Check that the SmartMedia is inserted in the memory card slot.
2. Press [DISK].
3. Press [F2](Save).
4. Press [F1] (Drive).
5. Press the cursor key to select "CARD".
6. Press [F6](OK).
7. Press [F6](Save). The Save File window will appear. Here, give the file a name.
8. Press [F6](OK). The message "Save, OK?" appears.
9. When you press [F6](OK), the particular file was saved.
 - * If a file with the same name has already been written on the SmartMedia, the program will ask you whether to overwrite it. To keep the oldfile, enter a new file name and then save the file.
10. When the saving ends, the display will show return to showing the screen in step3. Pressing [DISK] causes the save screen to disappear.

• Loading the User Data

1. Check that the SmartMedia is inserted in the memory card slot.
2. Press [DISK].
3. Press [F1](Load).
4. Press [F1](Drive).
5. Press the cursor key to select "CARD".
6. Press [F6](OK).
7. Move the cursor to the file (.SVD) to be loaded and press [F6](Select).
8. When you press [F6](Load), press [F6] (OK) again, the particular file was saved are loaded.
9. When the loading ends, the display will show return to showing the screen in step3. Pressing [DISK] causes the load screen to disappear.

○ Bulk Dump Procedure

Items Required:

- MIDI cable
- Sequencer (Recordable)

• Saving the User Data

1. Connect the MIDI OUT terminal of the XV-5080 to MIDI IN terminal of the sequencer with a MIDI cable.
2. Press [SYSTEM/UTILITY] two times.



3. Press [F6](Menu) to select Menu 2. Press [F1](Data Xfer).
4. Press [F1](to MIDI)
5. Set the setting to Type = ALL, Block = USER.
6. Begin recording with the sequencer.
7. Press [F6](Trans) to begin the transfer of data.



• Loading the User Data

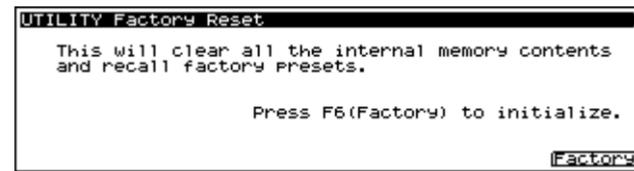
1. Connect the MIDI IN terminal of the XV-5080 to the MIDI OUT terminal of the sequencer with a MIDI cable.
2. Send the bulk dump from the sequencer.

FACTORY RESET

1. Press [SYSTEM/UTILITY] two times.

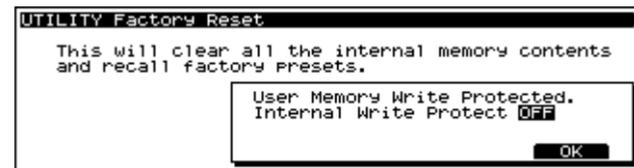


2. Press the [F6](Menu), and select "Menu 3". Then press [F1](Factory).



3. The program will ask you whether to factory reset and then press [F6](Factory).

- If Internal Write Protect is ON, a warning will be issued and then the display will show the following screen. Press [DEC] to turn Internal Write Protect OFF.



Press [F6](OK), and the display will return to showing the screen in step 2. Press [F6](Factory), and perform factory reset.



4. Factory reset is performed, the display will show the message "COMPLETE" and automatically return to showing the original screen.

VERSION UP

The XV-5080 uses a flash memory for the program ROM. The version of the program ROM can be upgraded by loading MIDI data into the XV-5080.

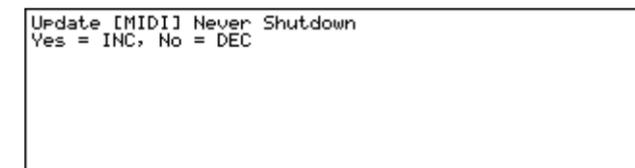
After upgrading the version, factory reset must be performed. If important data is written in the user memory, save the data on a card before upgrading the version.

Required Items:

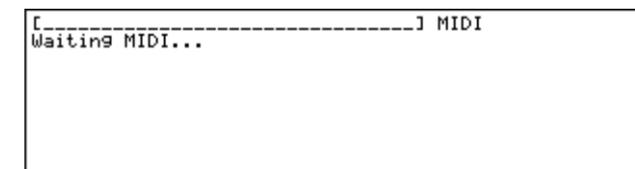
- XV-5080 Ver. Up Disk (2DD: Two disks)(17048561)
- Sequencer capable of regenerating SMF (Also possible using a synthesizer with a sequencer)
- MIDI cable

Version Up Procedure

1. Connect the MIDI cable from MIDI OUT of the external sequencer to MIDI IN of the XV-5080.
2. Turn on the XV-5080 power while holding down [DEC] and [A] at the same time, and the display will show the following MIDI update screen.



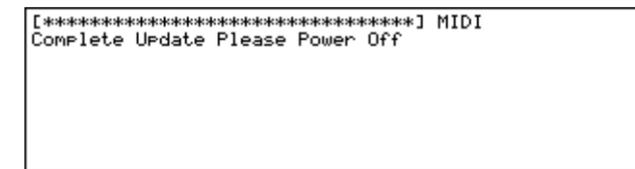
3. Press [INC], and the display will show the following screen, waiting for the reception of MIDI data.



4. After confirming the display in step 3, regenerate all the ".mid" files in the XV-5080 Ver. Up Disks 1 and 2 from the external sequencer (the order does not matter). During the reception of MIDI data, the "MIDI message" LED blinks and the message "Waiting" changes to the message "Receiving." When the data transfer of one file ends, the message "Waiting" will appear on the display. Then regenerate the next file.

The use of a sequencer with a chain play function, such as the XP-80, allows the version to be upgraded even more easily. Load and play the ".svc" file (chain file), and all the ".mid" files found on Disk 1 will be auto-matically regenerated. When regenerating Disk 1 all ends, replace with Disk 2 and play it again.

5. When the update ends normally, the display will show the following screen and the [A] to [H] LED's will blink.



6. After playing all the ".mid" files on the two Ver. Up Disks, turn on the XV-5080 power again to ensure that the version has been upgraded correctly.

7. Lastly, perform factory reset. This completes the version up.

◎NOTES:

Number of SMF's

- One SMF is created for one block of flash memory.
- Thirty-two SMF's, p00001.mid to p00032.mid, are created.
- Some files may be omitted depending on the size of the program.
- SMF is always created in p00032.mid because checksum data is placed in it.

Ending the update

- When p00032.mid has been received, it is judged that all the update data has been received. Any block, which has not been updated at this point of time, will be erased. This is performed to properly control the checksum data in the external ROM. Therefore, some blocks only cannot be updated.

TEST MODE

◎Preparation

- Audio cables: 1 to 8
- MIDI cable: 1
- SmartMedia: 3
(Not protected: one each for 5V and 3.3V
Protected: one for 5V or 3.3V)
- Monitor speaker (e.g. MA-12)
- Headphone
- Oscilloscope
- Wave expansion board, SR-JV80 Series: 4
- Wave expansion board, SRX Series: 4
- SIMMs: 2
- VM-3100Pro or the following equipments.
Equipment that accepts digital audio signals from the R-BUS.
Equipment that accepts digital audio signals from the coaxial lines.
Equipment that accepts digital audio signals from the optical lines.
- R-BUS cable
- COAXIAL cable
- OPTICAL cable
- SCSI-type ZIP drive
- Oscillator

Caution: Since entering the Test mode may erase the user data, always back up the data before doing so.

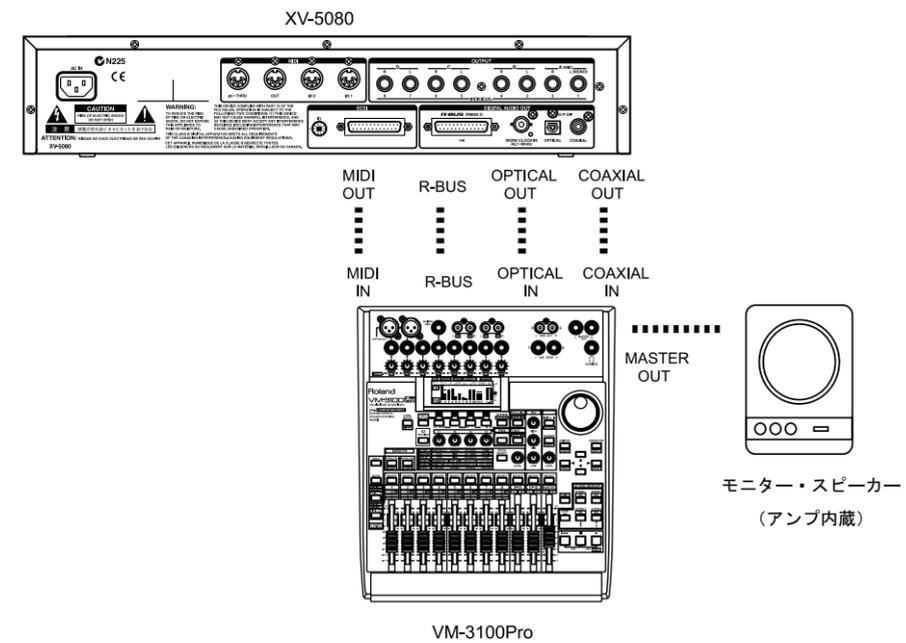
Caution: Conducting the card test causes the contents of the Smartmedia card to be lost. So prepare and use a dedicated card for the test.

Note: Mount the wave expansion board and SIMM on the unit before turning the power on.
Mounting them with the power on may damage the board.

Note: Initialize the VM-3100Pro before testing.

Note: Connect the VM-3100Pro and the ZIP drive to the R-BUS and SCSI, respectively, and turn the power on before testing.

* When testing the R-BUS, Optical, and Coaxial interfaces, connect the XV-5080 and the VM-3100Pro as shown on the figure below:



◎Tests

The tests to be done on the XV-5080 are as listed below. Detailed procedures for each test are explained in the corresponding sections.

- 0 : Top Page
(Identifying the version number, battery check, memory card check)
- 1 : Device Test 1
- 2 : LCD&Encoder Test
- 3 : Switch&LED Test
- 4 : Card Test
- 5 : MIDI Test
- 6 : Device Test 2
- 7 : SCSI Test
- 8 : Digital/R-BUS Test
- 9 : Digital/Optical Test
- 10 : Digital/Coaxial Test
- 11 : Digital/Sync Test
- 12 : Sound Test 1
- 13 : Sound Test 2
- 14 : Factory Reset

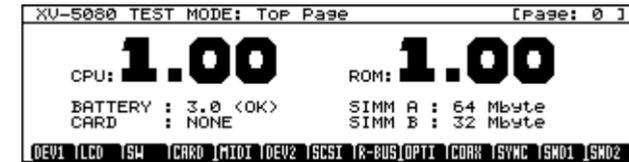
◎Operation of Buttons

- How to Enter the Test Mode
 - 1) Turn on the power while pressing [EXIT].
 - 2) Press [PHRASE PREVIEW] while the opening message is displayed, and the top page will appear.
- How to Exit the Test Mode
 - Press [EXIT] in each test mode to return to the top page.
- * In the Switch&LED test mode, however, press both the [SHIFT] and [EXIT] buttons simultaneously.
Press [EXIT] on the top page to exit the Test mode.
- How to Move to the Next Test
 - When a test is completed successfully, the system will bring you to the next test automatically.
 - Press [↓] in a current test to move to the next text even if the current test is not over yet.
- * In the Switch&LED test mode, however, press both the [SHIFT] and [↓] buttons simultaneously.
- How to Return to the Previous Test
 - Press the [↑] cursor to return to the last test.
- * In the Switch&LED test mode, however, press both the [SHIFT] and [↑] buttons simultaneously.
- How to Jump to a Test Mode
 - You can go to the test you want directly by selecting from [1/9] to [8/16] and [PART SELECT] while pressing [SHIFT].

- [SHIFT] + [1/17] 1. Device Test 1
- [SHIFT] + [2/18] 2. LCD&Encoder Test
- [SHIFT] + [3/19] 3. Switch&LED Test
- [SHIFT] + [4/20] 4. Card Test
- [SHIFT] + [5/21] 5. MIDI Test
- [SHIFT] + [6/22] 6. Device Test 2
- [SHIFT] + [7/23] 7. SCSI Test
- [SHIFT] + [8/24] 8. Digital/R-BUS Test
- [SHIFT] + [9/25] 9. Digital/Optical Test
- [SHIFT] + [10/26] 10. Digital/Coaxial Test
- [SHIFT] + [11/27] 11. Digital/Sync Test
- [SHIFT] + [12/28] 12. Sound Test 1
- [SHIFT] + [13/29] 13. Sound Test 2
- [SHIFT] + [PART SELECT] 14. Factory Reset

◎Explanation of Tests Details

0 : Top Page



- Check the versions of the CPU and the Program ROM.
If the version is not current, update it.
Refer to "How to Update a Version" for how to do it.
- Check the voltage of the SRAM battery.
Battery: OK : Voltage normal
NG : Voltage abnormal

* "OK" will be displayed if the battery voltage is 2.5V to 4.0V.

If "NG" is displayed, check BT1, IC2, IC9, and DA4 on the main board.

- Check the status of the memory-card slot and the SmartMedia inserted.
NONE : No SmartMedia card is inserted.
PROTECTED : The SmartMedia card is protected.
NON-PROTECT : The SmartMedia card is not protected.
If the display is not correct, check Q16, IC66 and CN14 on the main board.
- Check the capacity of the SIMMs inserted in SIMM slots A and B.
If the display is not correct, check CN13, CN14 and IC24 to 27 on the EXP base board.
- Check that you can adjust the contrast of the LCD by turning the Encoder control.
If you cannot, check IC4 and IC11 on the main board.
- If all the checks were completed successfully, press [VALUE] to proceed to the next test.

1 : Device Test 1

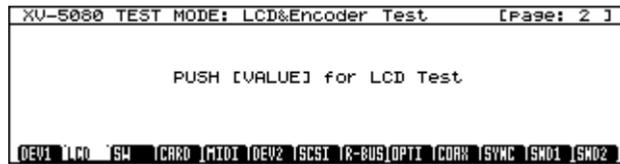


- CPU-RAM/ROM, Program ROM, DRAM, SRAM, XV-DSP/RAM and Wave ROM are tested automatically.

- 1. CPU: OK : The RAM and ROM are operating normally.
NG : Abnormal. Check IC3 on the main board.
- 2. ROM: OK : The Program ROM is operating normally.
NG : Abnormal. Check IC1, IC117 and IC106 on the main board.
- 3. DRAM: OK : The DRAM is operating normally.
NG : Abnormal. Check IC117 and IC118 on the main board.
- 4. SRAM: OK : The SRAM is operating normally.
NG : Abnormal. Check IC84 and IC6 on the main board.
- 5. DSP0: OK : Both the DSP and RAM of XV0 are operating normally.
I0-NG : The internal RAM of XV0 is abnormal. Check IC13 on the main board.
E0-NG : The external RAM of XV0 is abnormal. Check IC19 on the main board.
- 6. DSP1: OK : Both DSP and RAM of XV1 are operating normally.
I1-NG : The internal RAM of XV1 is abnormal. Check IC12 on the main board.
E1-NG : The external RAM of XV1 is abnormal. Check IC18 on the main board.
- 7. Wave: OK : The Wave ROM is operating normally.
NG : Abnormal. Check IC26 and IC29 on the main board.

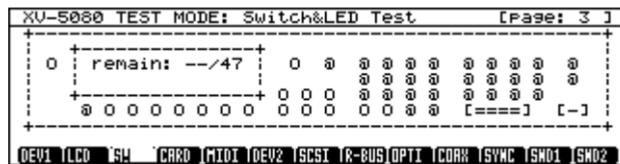
- If all the checks are completed successfully, the system will move on to the next test automatically.

2 : LCD&Encoder Test



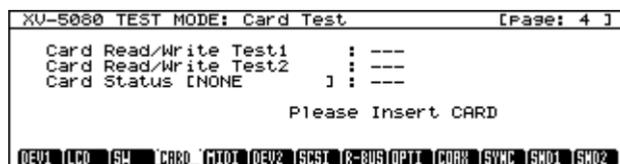
- Confirm that you can adjust the contrast of the LCD by turning the Encoder control. Confirm that changing the contrast value causes the LED number to light up.
 - Confirm that pressing [VALUE] for the first time causes all the LCD dots to light up.
 - Confirm that pressing [VALUE] for the second time causes all the LCD dots to go off.
 - Confirm that pressing [VALUE] for the third time causes a pattern to be displayed.
 - Confirm that pressing [VALUE] for the fourth time causes the pattern to appear in reverse video.
- If any of the tests listed above fail, check IC4, IC51, RA70 and RA71 on the main board.
- Pressing [VALUE] for the fifth time will bring you to the next test.

3 : Switch&LED Test



- Confirm that all the LEDs are lit.
 - Press the switches one by one. The LED will go off when the switch with an LED is pressed, and the display will change from "0" to ".". If a switch without an LED is pressed, the display will change from "@" to "X".
- Note: Pressing more than one switch simultaneously has no effect.
- The display "remain: **/47" shows the number of the switches not yet pressed. (** stands for such number.)
- If the LED does not turn on or off, or the display is not correct, check LED, SW and DA on the panel board, as well as IC57, IC58, Q3 to 14, CN11 and CN19 on the main board.
- When "remain" reaches "0", "Complete!" will be displayed, and the next test mode entered.

4 : Card Test



Caution: Conducting this test causes, the contents of the SmartMedia to be lost. So prepare and use a dedicated card for the test.

- Insert an unprotected SmartMedia (for 5V or 3.3V) into the card slot, and press [PATCH FINDER]. Confirm that the Card Status display changes to [NON-PROTECT], and that "OK" is displayed for "Card Read/Write test1".
- Insert another unprotected card into the card slot, and press [PATCH FINDER]. Confirm that the Card Status display changes to [NON-PROTECT], and that "OK" is displayed for "Card Read/Write test2".

- Change the inserted card with the protected one, and press [PATCH FINDER]. Confirm that the Card Status display changes to [PROTECTED].
- The system will display "OK" to the right of "Card Status" after recognizing both [PROTECTED] and [NON-PROTECT].
- OK : Operating normally
- WRITE-ERR : Write failed
- READ-ERR : Read failed
- CARD-ERR : Inserted SmartMedia is not correct.

* Unprotected SmartMedia cards are used in Read/Write Test 1 and 2.

If a WRITE-ERR or READ-ERR occurs, check CN6 and 7 on the media board, as well as IC62, IC103 and IC104 on the main board.

- If all the checks are "OK", the system will move on to the next test automatically.

Caution: If the SmartMedia card was inserted or removed while data was being read or written to it, the card may be damaged. ("Card Status [UNFORMAT]" will be displayed.) In this case, reformat the card and resume the test. Press [SYSTEM/UTILITY] in this test to bring up the format screen.

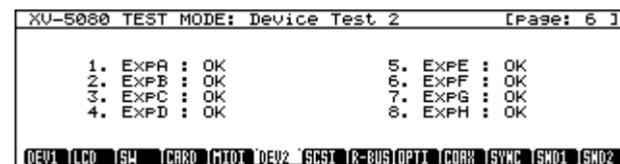
- Press [VALUE] to format the card. After formatting, the display will return to the card test.
- If formatting fails, "Error!" will be displayed. Try reformatting, or use another card.

5 : MIDI Test



- Connect MIDI IN 1 and MIDI OUT using a MIDI cable. If a MIDI cable is already connected to the VM-3100Pro, change the connection only during this test. Confirm that "MIDI 1" is displayed "OK".
- Change the MIDI cable connection to MIDI IN 1 to MIDI IN 2. Confirm that "OK" is displayed for "MIDI 2". If any of the displays are not correct, check IC35 and IC36 on the EXP base board.
- Removing the MIDI cable will bring you to the next test. If you want to proceed with the test in order, reconnect the MIDI cable to the VM-3100Pro.

6 : Device Test 2



- In device test 2, the expansion board slots are tested. This test requires that all slots be mounted with expansion boards.

If you mount the boards at this time, turn off the power first, mount the boards, and resume the test mode.

If you mount the boards with the power on they may be damaged.

- Each slot is checked automatically.
A/B/C/D/E/F/G/H : OK : Operating normally
NG : Abnormal

If "NG" occurs, check the following depending on the slot:
A,B,C,or D : IC1 to 7 on the EXP base board
E,F,G, or H : IC8 to 17 on the EXP base board

- If all the slots are "OK", the system will move on to the next test automatically.

7 : SCSI Test

```
XV-5080 TEST MODE: SCSI Test [Page: 7 ]
>>1. SCSI ID Switch : - 1 - - - - -
   2. SCSI Read/Write : ---
      Please Select SCSI ID
DEVI LCO SW CARD MIDI DEV2 SCSI R-BUS OPTI CORX SYNC SMO1 SMO2
```

- Connect the ZIP drive to SCSI.
- Confirm that the ZIP drive is powered on.
- Turning the SCSI ID Switch changes the ID number, and "-" displays the number selected.
Change the number from 0 through 7, and confirm that the numbers are displayed.
- Turning the VALUE control starts the Read/Write test.

- DEV-NOT-FOUND : No device found
- DISK-NOT-FOUND : No disk found
- MEM-ERR : Memory abnormal
- READ-ERR : Read failed
- WRITE-ERR : Write failed
- COMPARE-ERR : Compare failed

If an error is displayed, check IC3, IC4, IC53 and IC56.
If DEV-NOT-FOUND is displayed, check the SCSI cable connection and CN9 on the main board.

- * In the Test mode, the SCSI ID of the machine being tested is set at "7" irrespective of the SW setting.
- * Set the SCSI ID on the ZIP side at 5 or 6.

- If the Read/Write test was "OK", the system will proceed to the next test.

8 : Digital/R-BUS Test

In tests 8 through 10, procedures are described for both cases where the VM-3100pro is used and not used.

The VM-3100pro, which sends MIDI signals, performs tests 8 through 10 automatically. When the VM-3100pro is used before starting this test, check the connection to the VM-3100Pro.

If you connect the unit at this time, go back to the previous test first, connect the unit, and then enter this test again.

```
XV-5080 TEST MODE: Digital/R-BUS Test [Page: 8 ]
1. OUTPUT1 : ----- 5. OUTPUT5 : -----
2. OUTPUT2 : ----- 6. OUTPUT6 : -----
3. OUTPUT3 : ----- 7. OUTPUT7 : -----
4. OUTPUT4 : ----- 8. OUTPUT8 : -----
      PUSH [VALUE] for Next Output
DEVI LCO SW CARD MIDI DEV2 SCSI R-BUS OPTI CORX SYNC SMO1 SMO2
```

- Repeat pressing [VALUE] to output several types of sounds in the following order:
 - 1) OUTPUT A-L (sine wave)
 - 2) OUTPUT A-R (sine wave)
 - 3) OUTPUT B-L (square wave)
 - 4) OUTPUT B-R (square wave)
 - 5) OUTPUT C-L (sawtooth wave)
 - 6) OUTPUT C-R (sawtooth wave)
 - 7) OUTPUT D-L (sine wave)
 - 8) OUTPUT D-R (sine wave)

- Pressing [9/25] to [16/32] allows you to select the output destination directly.
- DONE : Output normally
- IPC NG : Abnormal IPC found. Check IC107 on the main board.
If DONE is displayed and a defective sound is still output, check IC13, IC46 and CN8 on the main board.
- After all the sounds are OK, press [VALUE] to proceed to the next test.

When the VM-3100 Pro is unavailable, use VM-7100, VM-7200, VSR-880, ADA-7000 or other equipment that accepts digital audio signals from the R-BUS. Take the following steps to test the R-BUS lines.

- Using a R-BUS cable, connect the equipment with the XV-5080.
- Connect the equipment with speakers or headphones.
- Set the equipment so that it externally synchronizes with the R-BUS.
- Press the [VALUE] and [9/25] through [16/32] keys to check that sound is output from each output terminal.

9 : Digital/Optical Test

```
XV-5080 TEST MODE: Digital/Optical Test [Page: 9 ]
1. OUTPUT-L : ----
2. OUTPUT-R : ----
      PUSH [VALUE] for Next Output
DEVI LCO SW CARD MIDI DEV2 SCSI R-BUS OPTI CORX SYNC SMO1 SMO2
```

- Repeat pressing [VALUE] to output the sounds in the following order:
 - 1) OUTPUT A-L (sine wave)
 - 2) OUTPUT A-R (sine wave)
- "DONE" is displayed for the sound being output.
- Pressing [9/25], [10/26] allows you to select the output destination directly.
If DONE is displayed and a defective sound is still output, check IC38 and CN7.
- After all the sounds are OK, press [VALUE] to proceed to the next test.

When the VM-3100Pro is unavailable, use VM-7100, VM-7200, VSR-880, DS-90 or other equipment that accepts digital audio signals from the optical lines. Take the following steps to test the digital/optical lines.

- Using an optical cable, connect the optical input terminal on the equipment with the XV-5080.
- When the equipment is a mixer or recorder, connect speakers or headphones.
- Set the equipment so that it externally synchronizes with the optical line.
- Press the [VALUE], [9/25] and [10/26] keys to check that sound is output from each output terminal.

10 : Digital/Coaxial Test

```
XV-5080 TEST MODE: Digital/Coaxial Test [Page: 10 ]
1. OUTPUT-L : ----
2. OUTPUT-R : ----
      PUSH [VALUE] for Next Output
DEVI LCO SW CARD MIDI DEV2 SCSI R-BUS OPTI CORX SYNC SMO1 SMO2
```

- Repeat pressing [VALUE] to output the sounds in the following order:
 - 1) OUTPUT A-L (sine wave)
 - 2) OUTPUT A-R (sine wave)
- "DONE" is displayed for the sound being output.
- Pressing [9/25], [10/26] allows you to select the output destination directly.
If DONE is displayed and a defective sound is still output, check IC41 and FL1.
- After all the sounds are OK, press [VALUE] to proceed to the next test.

When the VM-3100Pro is unavailable, use VM-7100, VM-7200, VSR-880, DS-90 or other equipment that accepts digital audio signals from the coaxial lines. Take the following steps to test the digital/coaxial lines.

- Using a coaxial cable, connect the coaxial input terminal on the equipment with the XV-5080.
- When the equipment is a mixer or recorder, connect speakers or headphones.
- Set the equipment so that it externally synchronizes with the Coaxial line.
- Press the [VALUE] and [9/25] through [10/26] keys to check that sound is output from each output terminal.

11 : Digital/Sync Test

```

XV-5080 TEST MODE: Digital/Sync Test [Page: 11]
[ 44223Hz]
>>1. Check Clock 44.1KHz : ---
2. Check Clock 48.0KHz : ---
      PUSH [VALUE] for Next Check
DEVI LCD SW CARD MIDI DEV2 SCSI IR-BUS OPTI CORN SYNC SMD1 SMD2

```

- Connect an oscillator to the WORD CLOCK IN terminal.
- Set the oscillator at 44.1kHz. The system will display "OK" after confirming sync, and output a sine wave sound from OUTPUT A-L.
- Press VALUE.
- Set the oscillator at 48.0kHz. The system will display "OK" after confirming sync, and output a sine wave sound from OUTPUT A-R.

* [Hz] on the right upper section of the display shows the Clock input status.

If "OK" is not displayed, check IC37, IC39 to 43, IC45, IC49, IC50 and IC113.

- After all outputs are OK, press [VALUE] to proceed to the next test.

12 : Sound Test 1

```

XV-5080 TEST MODE: Sound Test #1 [Page: 12]
1. OUTPUT1 : ---- 5. OUTPUT5 : ----
2. OUTPUT2 : ---- 6. OUTPUT6 : ----
3. OUTPUT3 : ---- 7. OUTPUT7 : ----
4. OUTPUT4 : ---- 8. OUTPUT8 : ----
      PUSH [VALUE] for Next Output
DEVI LCD SW CARD MIDI DEV2 SCSI IR-BUS OPTI CORN SYNC SMD1 SMD2

```

- Repeat pressing [VALUE] to output the sounds from each output terminal in the following order:
Confirm the output sound with the monitor speaker or headphones.

* Sound is output from different terminals. Reconnect the audio cable as required.

- 1) OUTPUT A-L & headphone L (sine wave)
- 2) OUTPUT A-R & headphone R (sine wave)
- 3) OUTPUT B-L (square wave)
- 4) OUTPUT B-R (square wave)
- 5) OUTPUT C-L (sawtooth wave)
- 6) OUTPUT C-R (sawtooth wave)
- 7) OUTPUT D-L (sine wave)
- 8) OUTPUT D-R (sine wave)

- "DONE" is displayed for the output destination.
- Pressing [9/25] to [16/32] allows you to select the output destination directly.

If the sound is not output correctly, check the following points depending on the destination:

No output	: CN17, Q23 to 26, and IC76 on the main board
OUTPUT A & headphone L,R	: CN16, IC70, and IC71 on the main board; CN5 of the phones board
OUTPUT A	: IC70 to 72 or the main board; IC1 on the phones board
OUTPUT A-L only	: Q19, C233 and C220 on the main board; C3 of the phones board
OUTPUT A-R only	: Q20, C245 and C228 on the main board; C7 of the phones board
Headphone L,R	: IC69 on the main board
Headphone L only	: Q17 and C214 on the main board
Headphone R only	: Q18 and C226 on the main board
OUTPUT B	: IC73 to 75 on the main board
OUTPUT B-L only	: Q21 and C253 on the main board
OUTPUT B-R only	: Q22 and C259 on the main board
OUTPUT C	: IC78 to 80 on the main board
OUTPUT C-L only	: Q27 and C283 on the main board
OUTPUT C-R only	: Q28 and C292 on the main board
OUTPUT D	: IC81 to 83 on the main board
OUTPUT D-L only	: Q29 and C308 on the main board
OUTPUT D-R	: Q29 and C317 on the main board

- After all the sounds are OK, press [VALUE] to proceed to the next test.

13 : Sound Test 2

```

XV-5080 TEST MODE: Sound Test #2 [Page: 13]
>>1. Stop
2. Playing
      PUSH [VALUE] for Next Step
DEVI LCD SW CARD MIDI DEV2 SCSI IR-BUS OPTI CORN SYNC SMD1 SMD2

```

- In this test, the sound is output from OUTPUT A and headphone L and R. Confirm that the monitor speaker is connected correctly.
- Pressing [VALUE] starts the test sounding.
- Pressing [VALUE] again stops the test sounding and goes on to the next text.

If no sound is output or stopped, check IC4, IC12 and IC13 on the main board.

14 : Factory Reset

```

XV-5080 TEST MODE: Factory Reset [Page: 14]
Execute Factory Reset, OK ?
[VALUE] / exec
[EXIT ] / exit
DEVI LCD SW CARD MIDI DEV2 SCSI IR-BUS OPTI CORN SYNC SMD1 SMD2

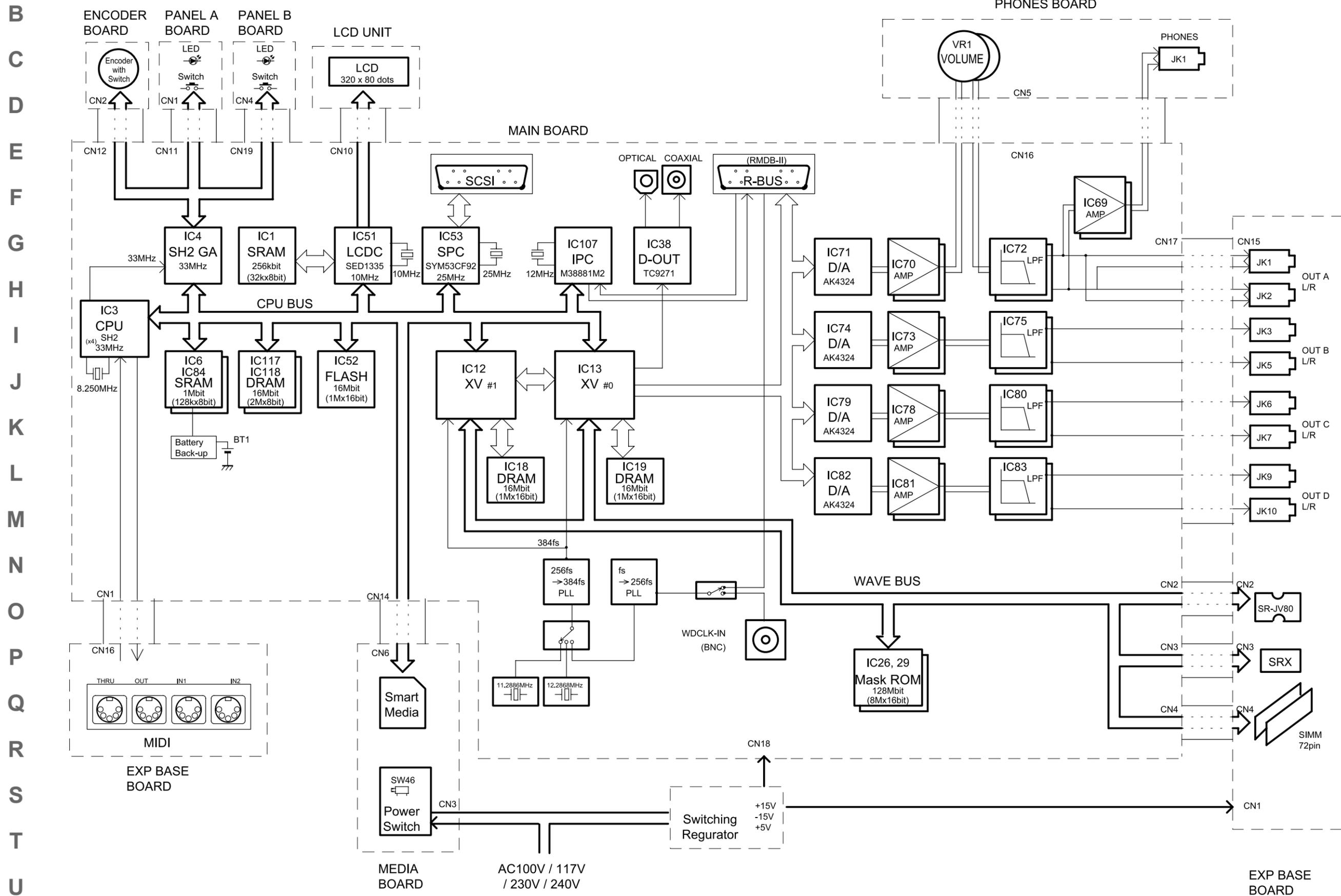
```

- Pressing [VALUE] makes the system perform the factory reset and exits the test mode.

* Be sure to perform the factory reset after you completed the Test mode.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

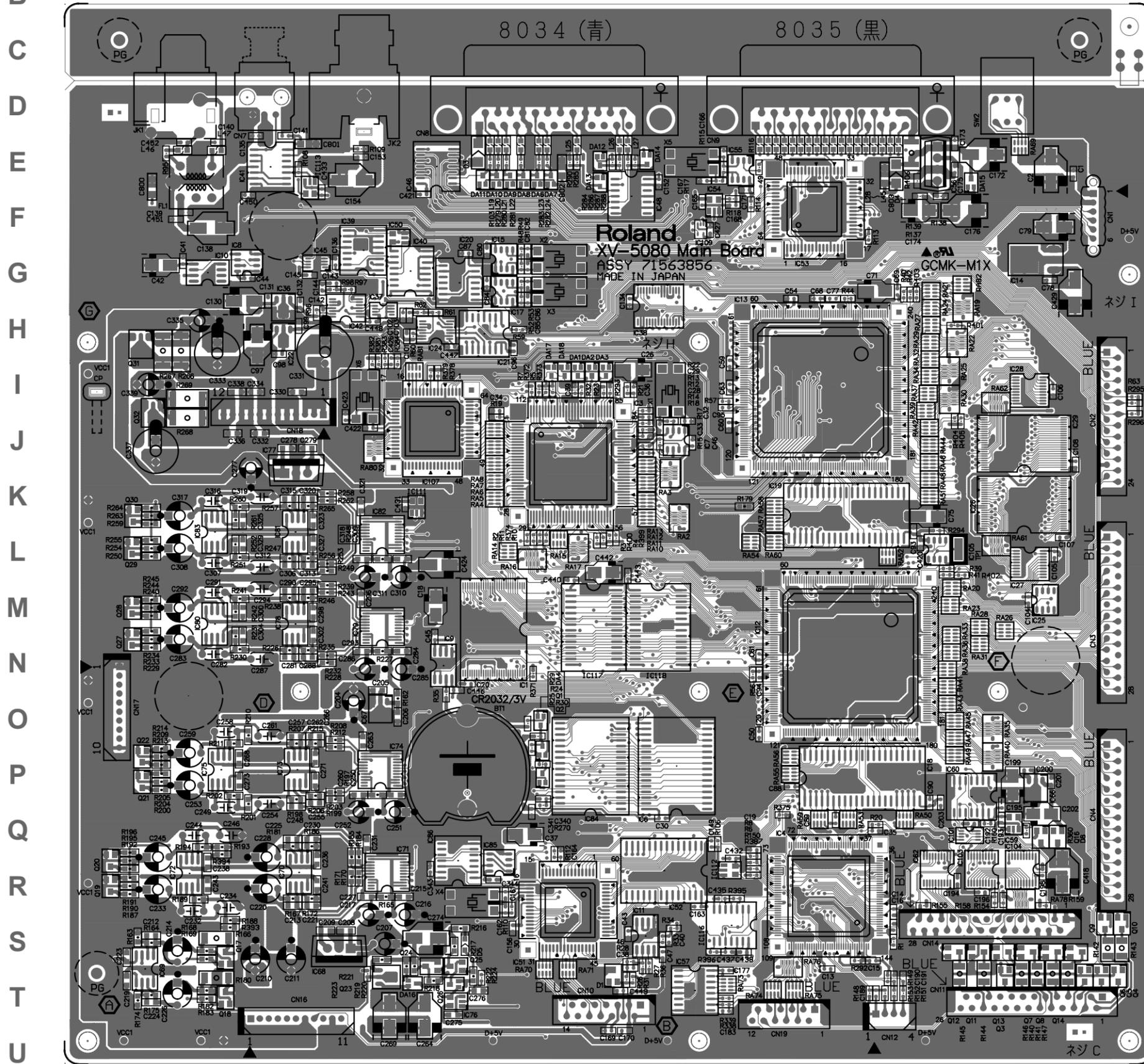
A BLOCK DIAGRAM



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

A CIRCUIT BOARD

B MAIN BOARD



For EU Countries

Apparatus containing Lithium batteries

CAUTION
 Danger of explosion if battery is incorrectly replaced.
 Replace only with the same or equivalent type recommended by the manufacturer.
 Discard used batteries according to the manufacturer's instructions.

ADVARSEL!
 Lithiumbatteri - Eksplosionsfare ved fejlagtig håndtering.
 Udskiftning må kun ske med batteri af samme fabrikat og type.
 Levér det brugte batteri tilbage til leverandøren.

VARNING
 Explosionsfare ved fejlagtigt batteriudskiftning.
 Anvnd samme batterityp eller en ekvivalent typ som rekommanderes af apparatfabrikanten.
 Kasserer anvnt batteri enligt fabrikantens instruktion.

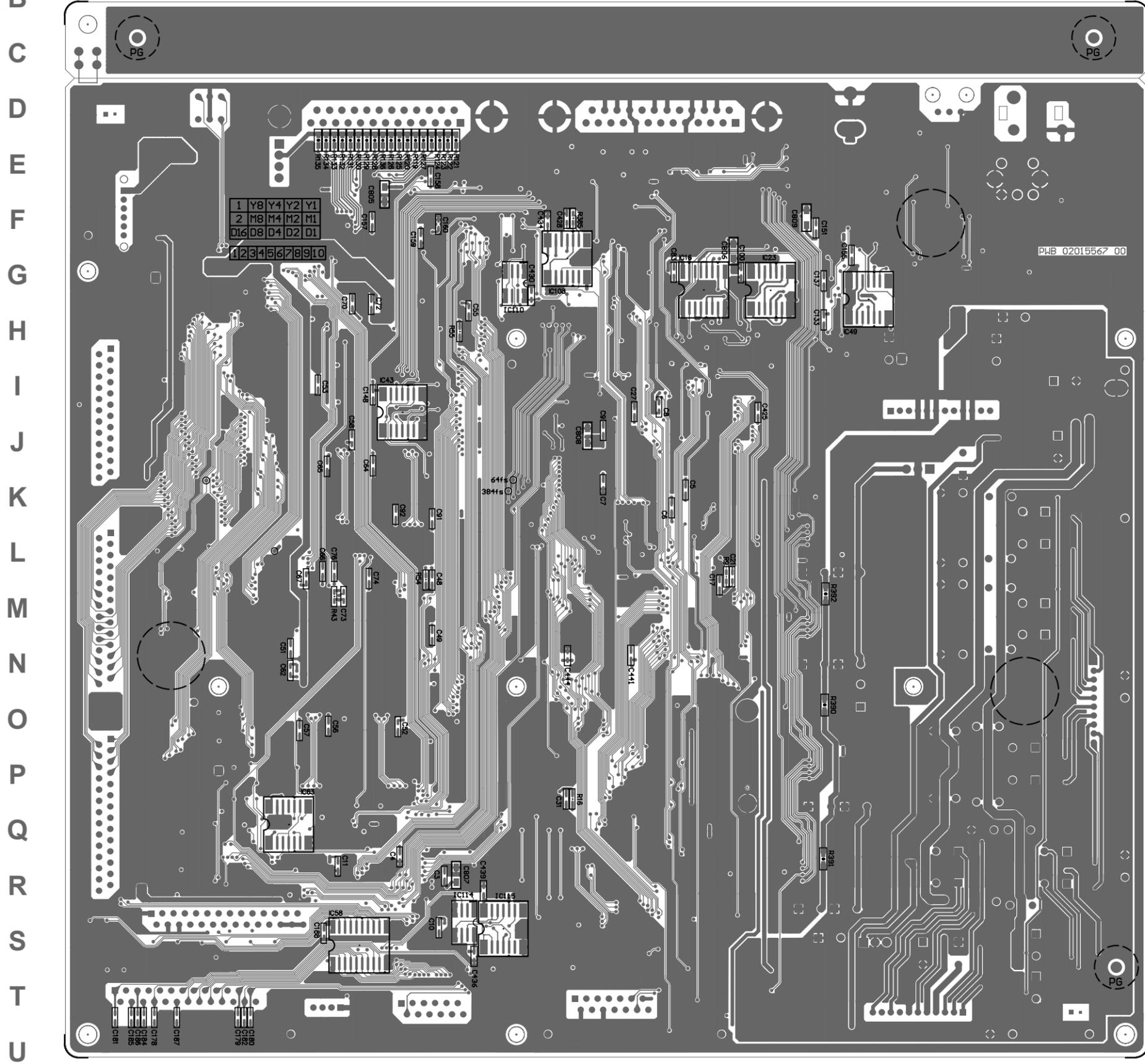
ADVARSEL
 Eksplosjonsfare ved feilaktig skifte av batteri.
 Benytt samme batteritype eller en tilsvarende type anbefalt av apparatfabrikanten.
 Brukte batterier kasseres i henhold til fabrikantens instruks joner.

VAROITUS
 Paristo voi räjähtää, jos se on virheellisesti asennettu.
 Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

A **CIRCUIT BOARD**

B **MAIN BOARD**



For EU Countries

Apparatus containing Lithium batteries

CAUTION
 Danger of explosion if battery is incorrectly replaced.
 Replace only with the same or equivalent type recommended by the manufacturer.
 Discard used batteries according to the manufacturer's instructions.

ADVARSEL!
 Lithiumbatteri - Eksplosjonsfare ved feilagtig håndtering.
 Udskiftning må kun ske med batteri af samme fabrikat og type.
 Levér det brugte batteri tilbage til leverandøren.

VARNING
 Explosionsfara vid felaktigt batteribyte.
 Använd samma batterityp eller en ekvivalent typ som rekommenderas av apparattillverkaren.
 Kassera använt batteri enligt fabrikantens instruktion.

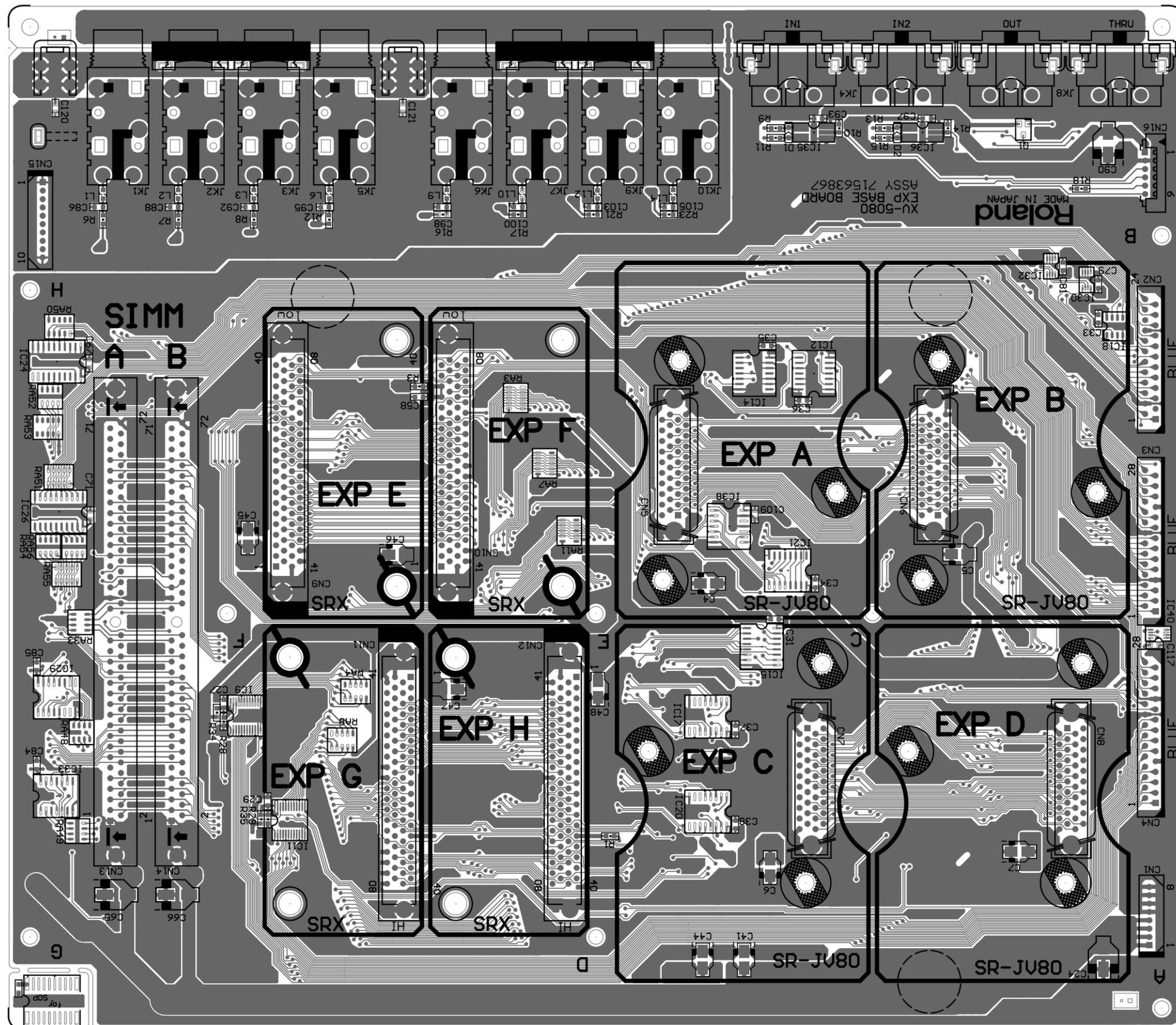
ADVARSEL
 Eksplosjonsfare ved feilaktig skifte av batteri.
 Benytt samme batteritype eller en tilsvarende type anbefalt av apparatfabrikanten.
 Brukte batterier kasseres i henhold til fabrikantens instruksjoner.

VAROITUS
 Paristo voi räjähtää, jos se on virheellisesti asennettu.
 Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin. Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

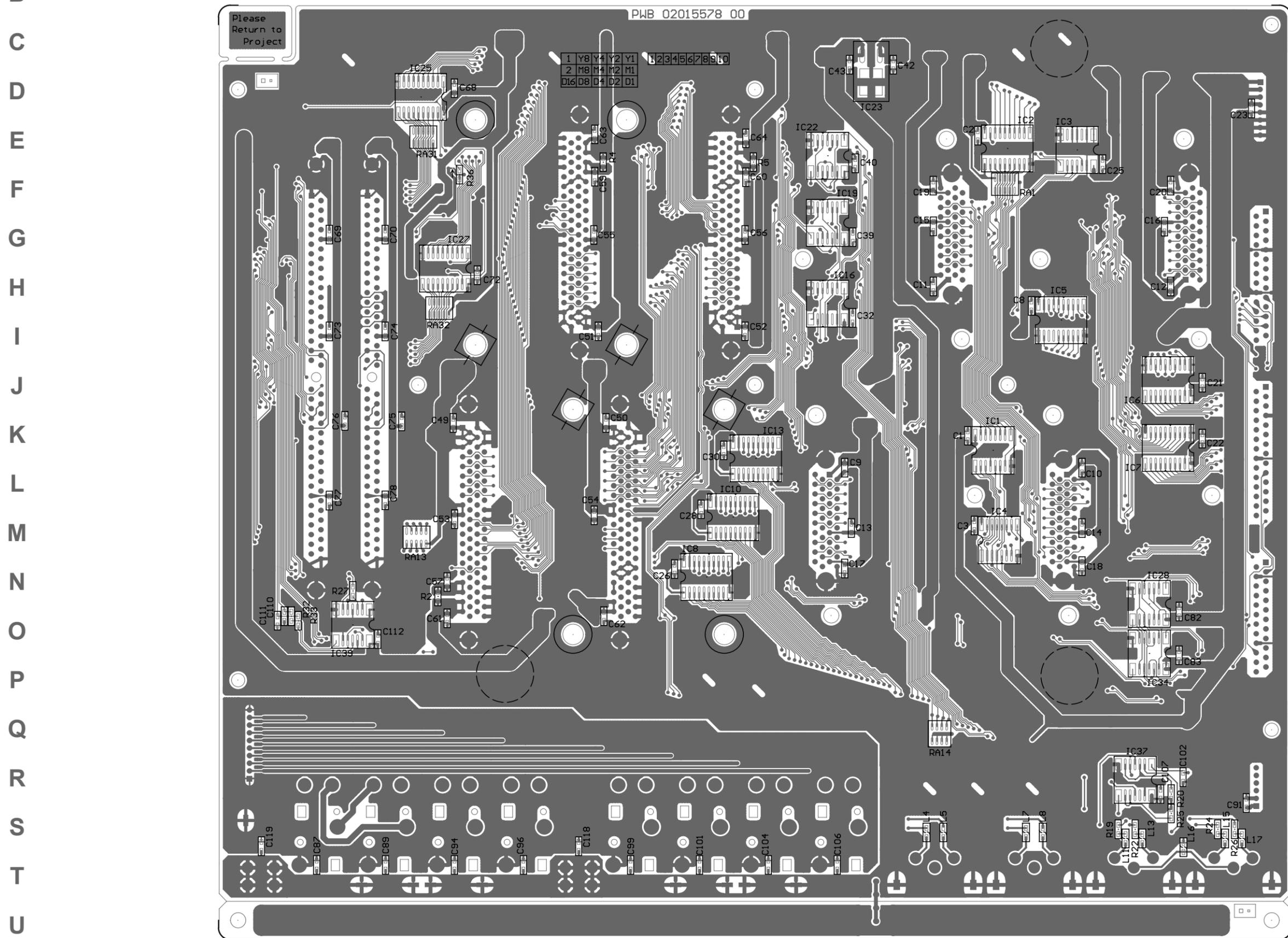
A CIRCUIT BOARD
B EXP BASE BOARD

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A CIRCUIT BOARD
B EXP BASE BOARD



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

A CIRCUIT BOARD

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ENCODER BOARD ASSY (71563945)

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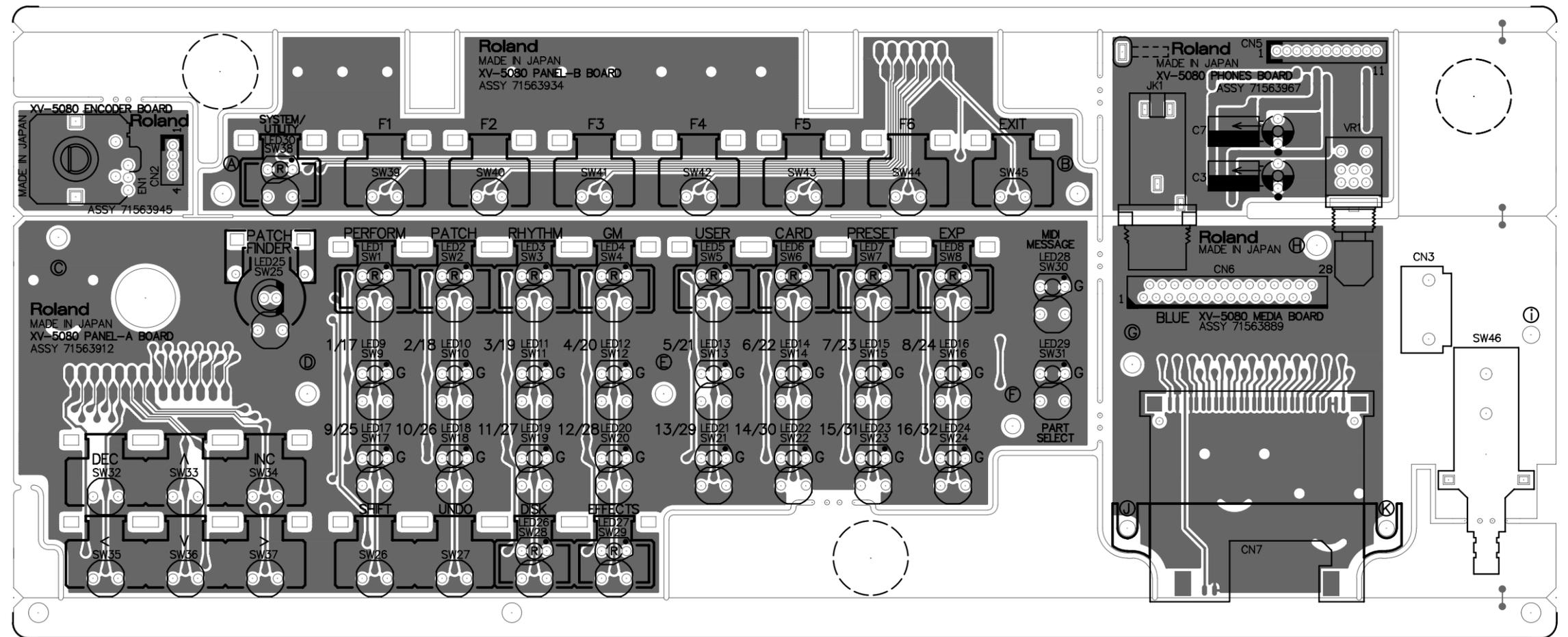
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PANEL-B BOARD ASSY (71563923)

PHONES BOARD ASSY (71563956)



PANEL-A BOARD ASSY (71563901)

MEDIA BOARD ASSY (71563878)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

A **CIRCUIT BOARD**

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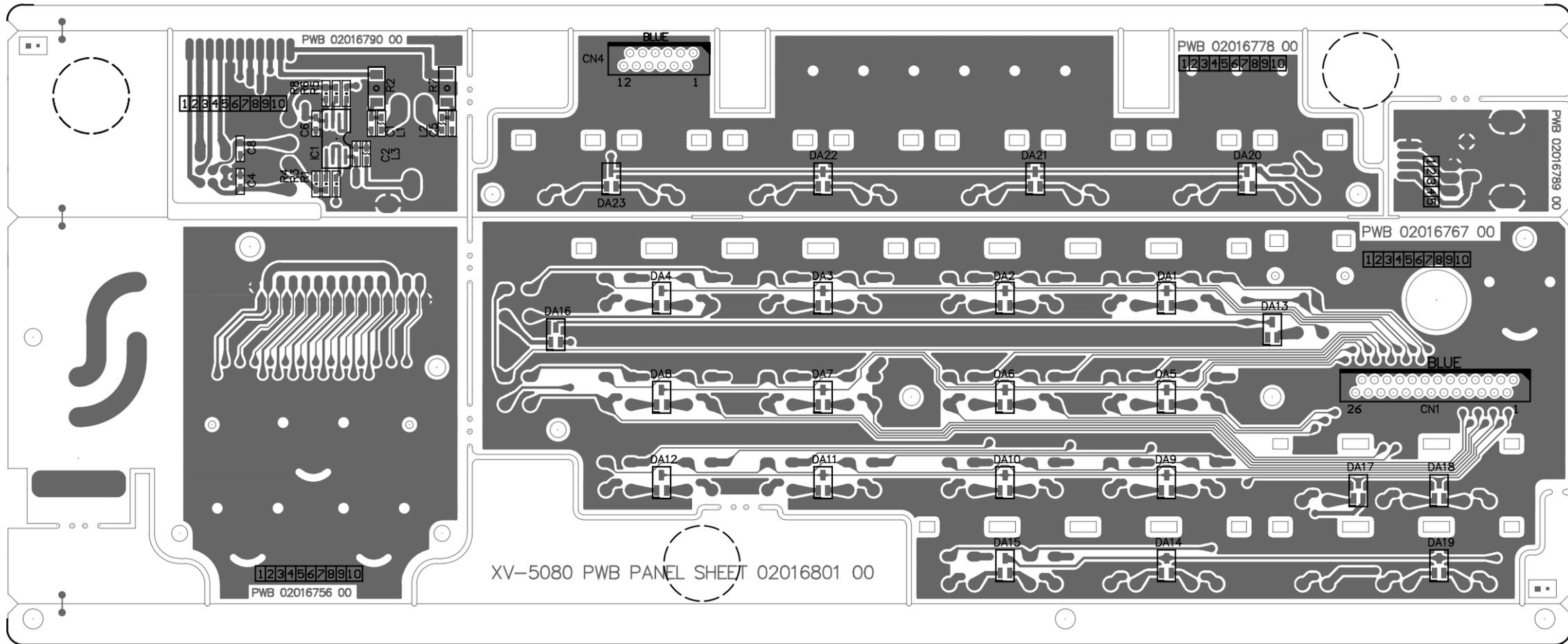
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PHONES BOARD ASSY (71563956)



PANEL-B BOARD ASSY (71563923)



ENCODER BOARD ASSY (71563945)



MEDIA BOARD ASSY (71563878)

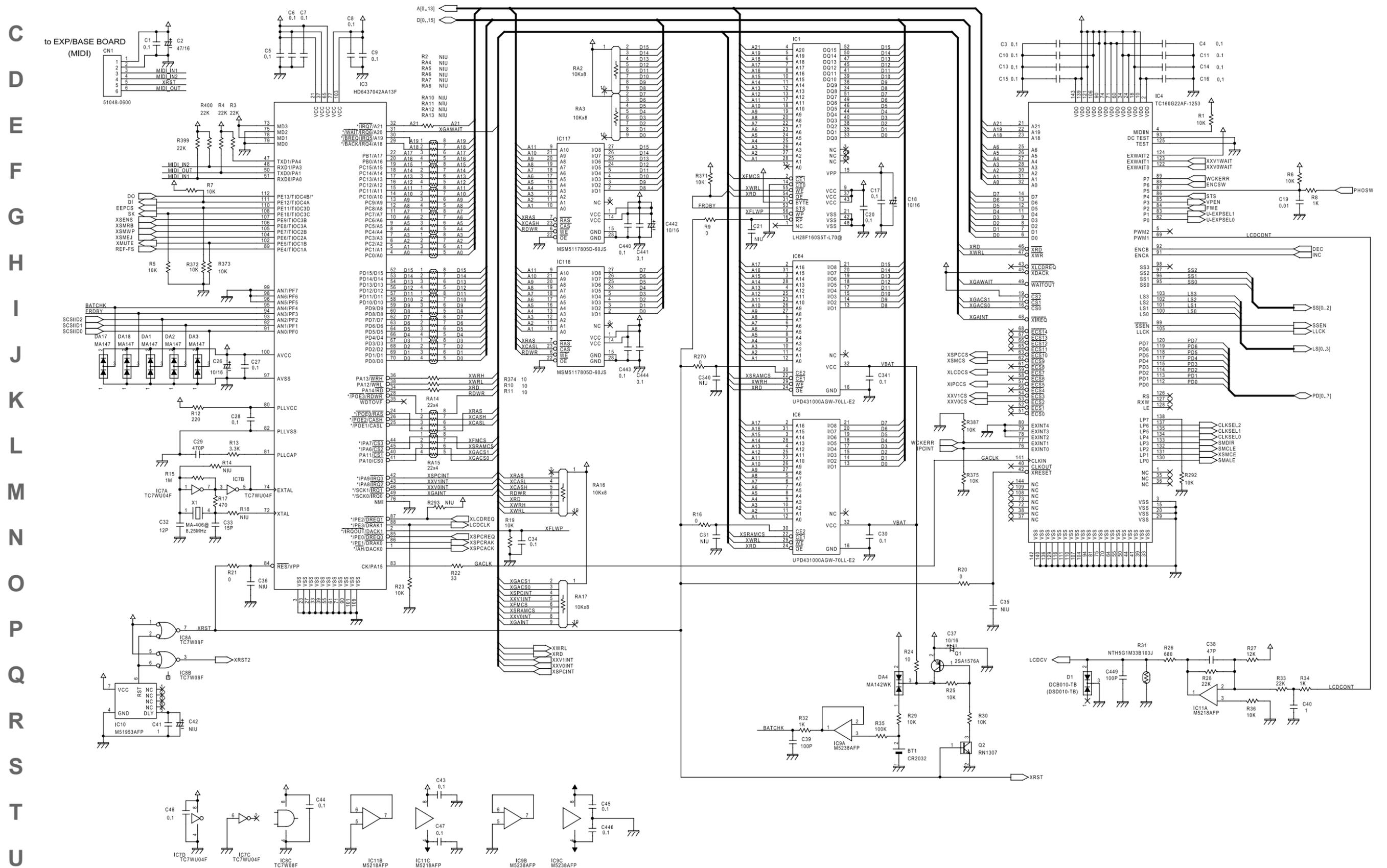


PANEL-A BOARD ASSY (71563901)



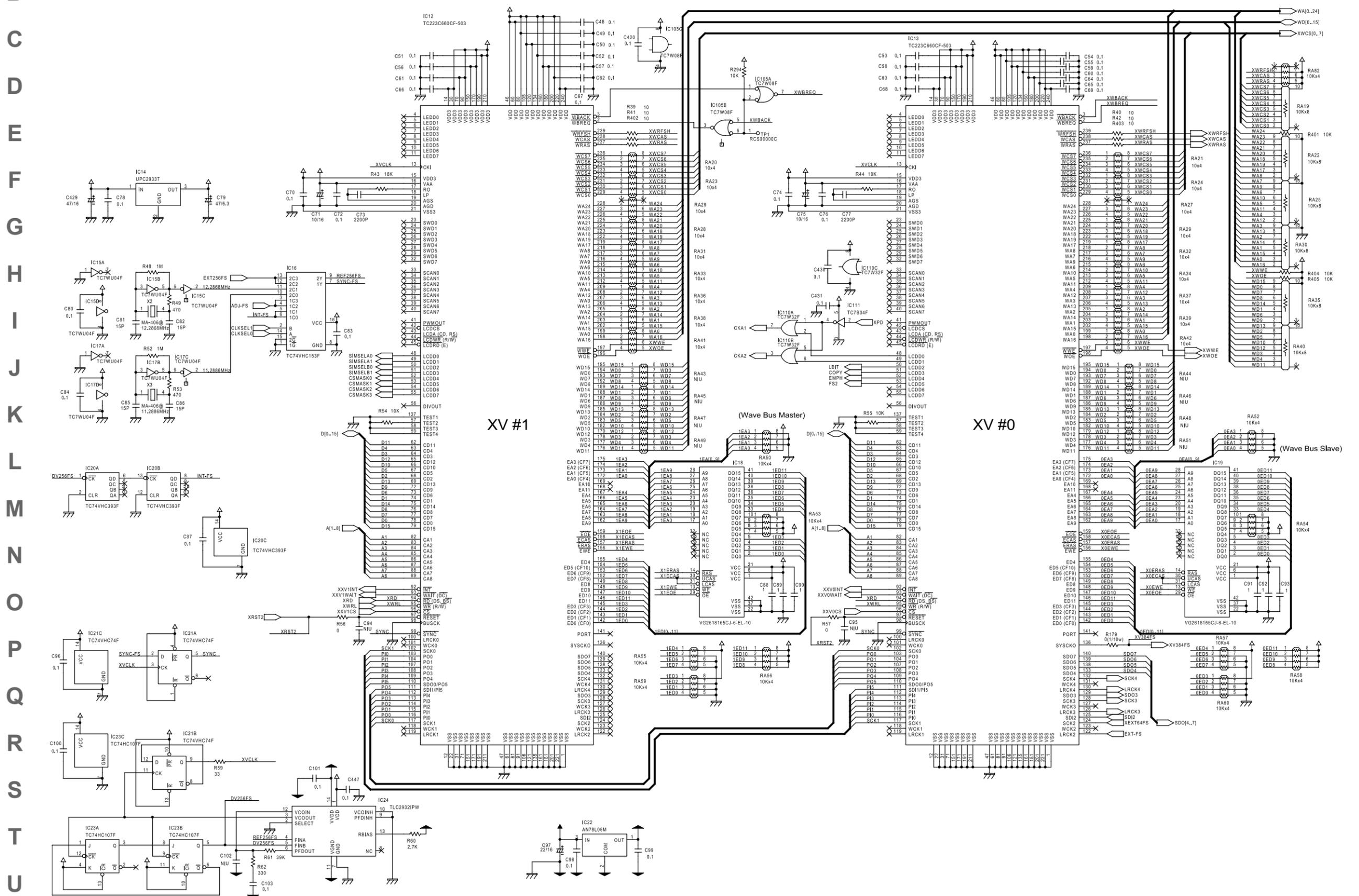
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

A CIRCUIT DIAGRAM B MAIN BOARD



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

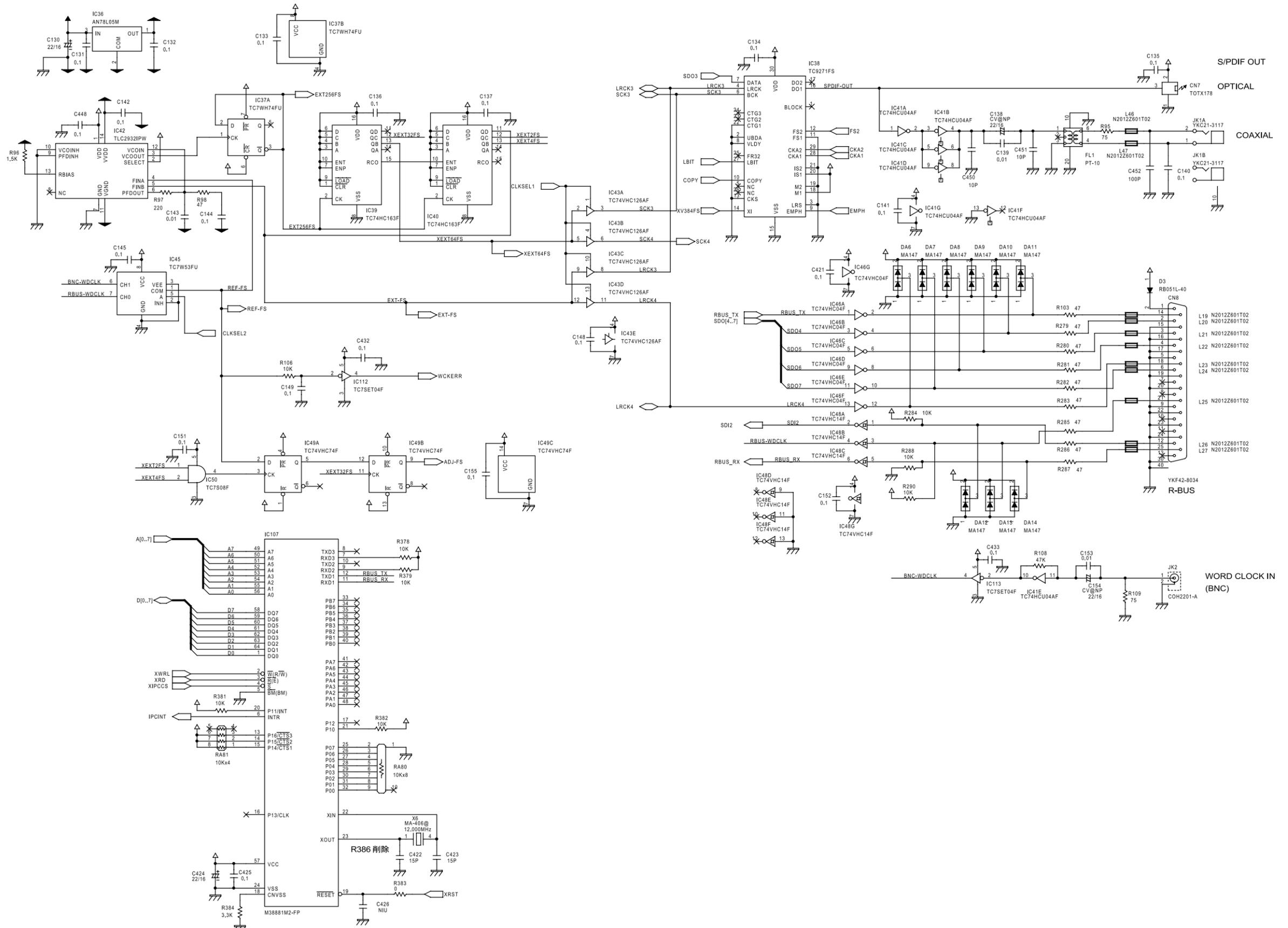
A **CIRCUIT DIAGRAM**
B **MAIN BOARD**



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

A CIRCUIT DIAGRAM B MAIN BOARD

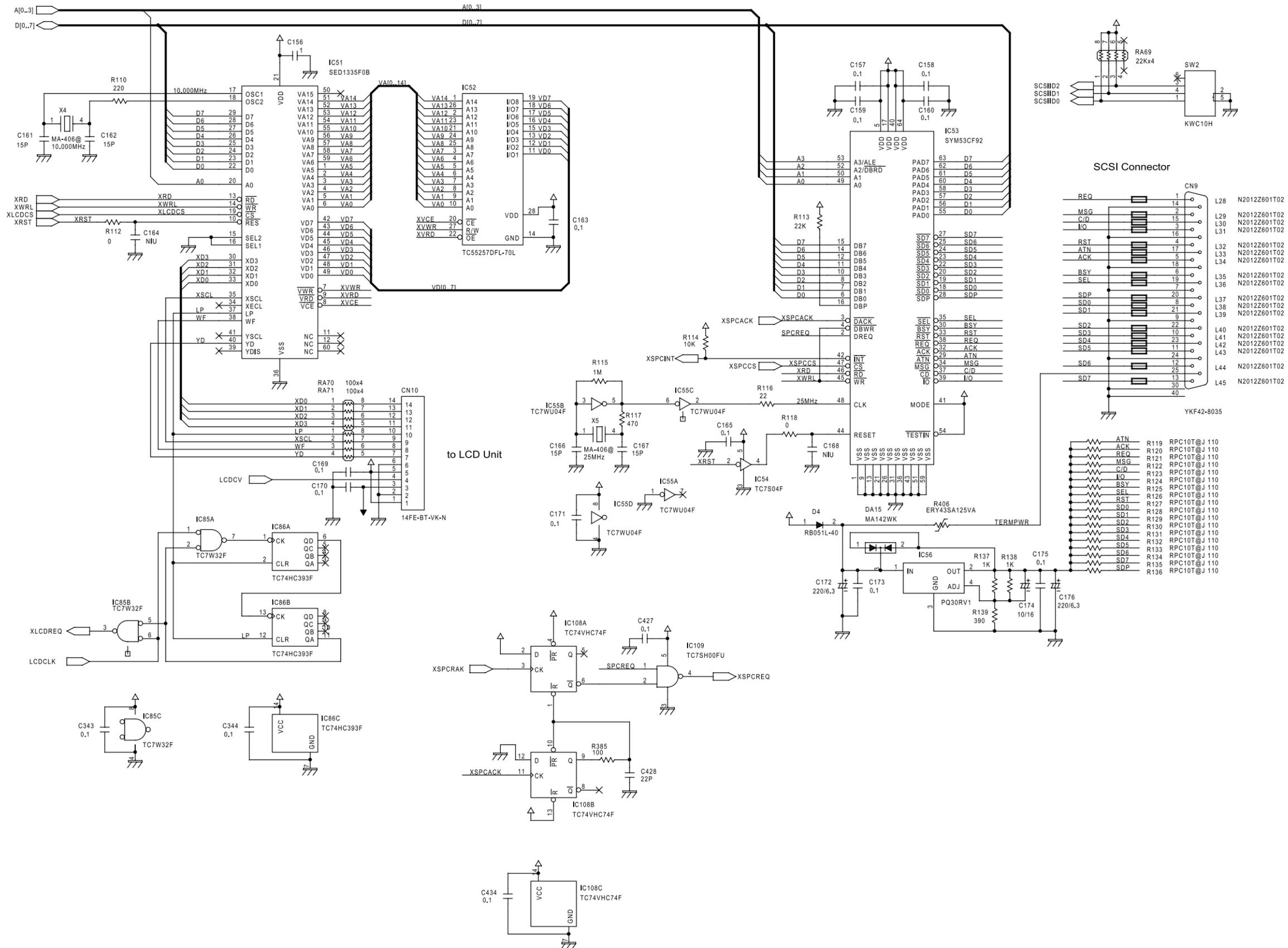
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

A CIRCUIT DIAGRAM
B MAIN BOARD

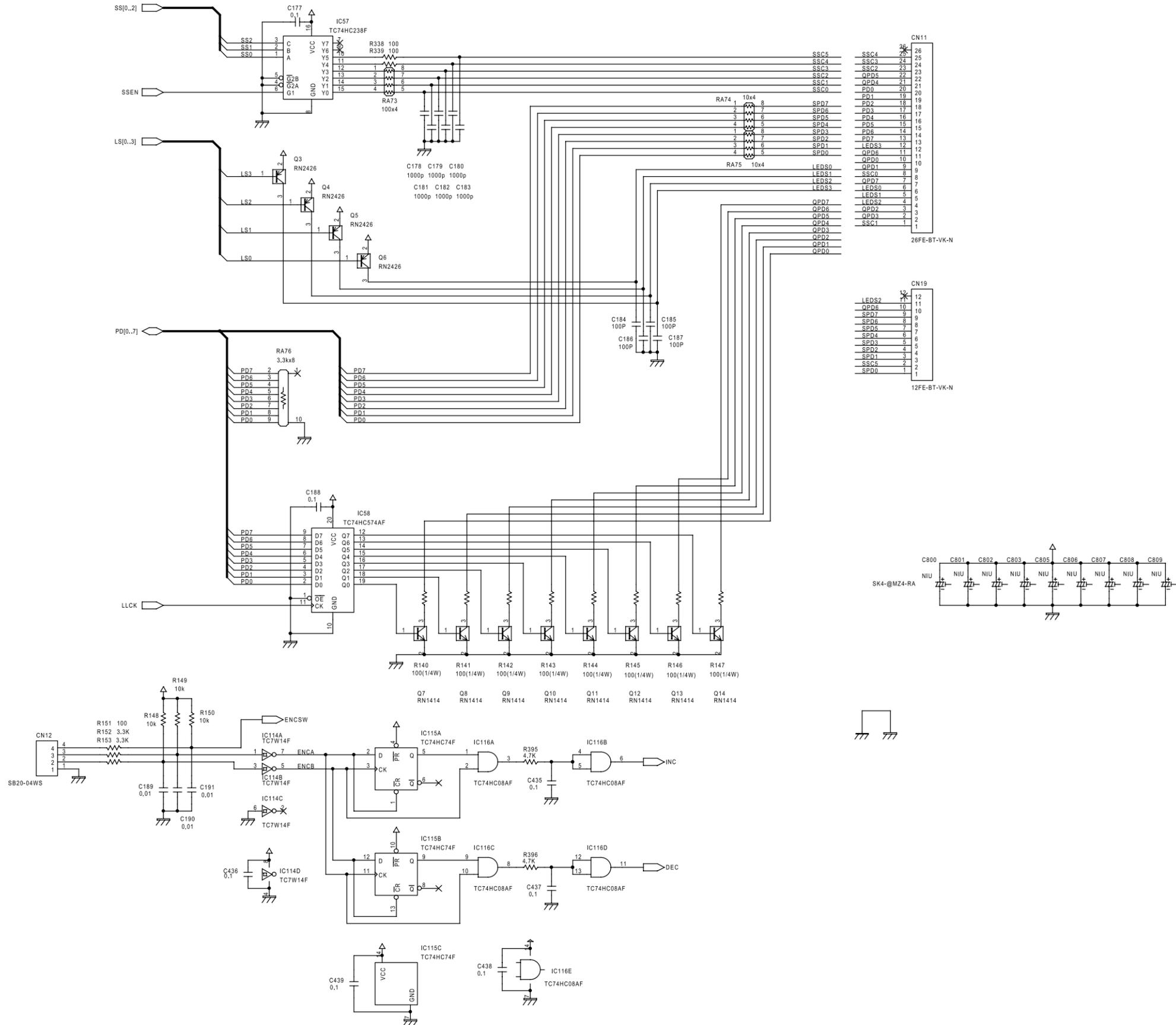
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A CIRCUIT DIAGRAM
B MAIN BOARD

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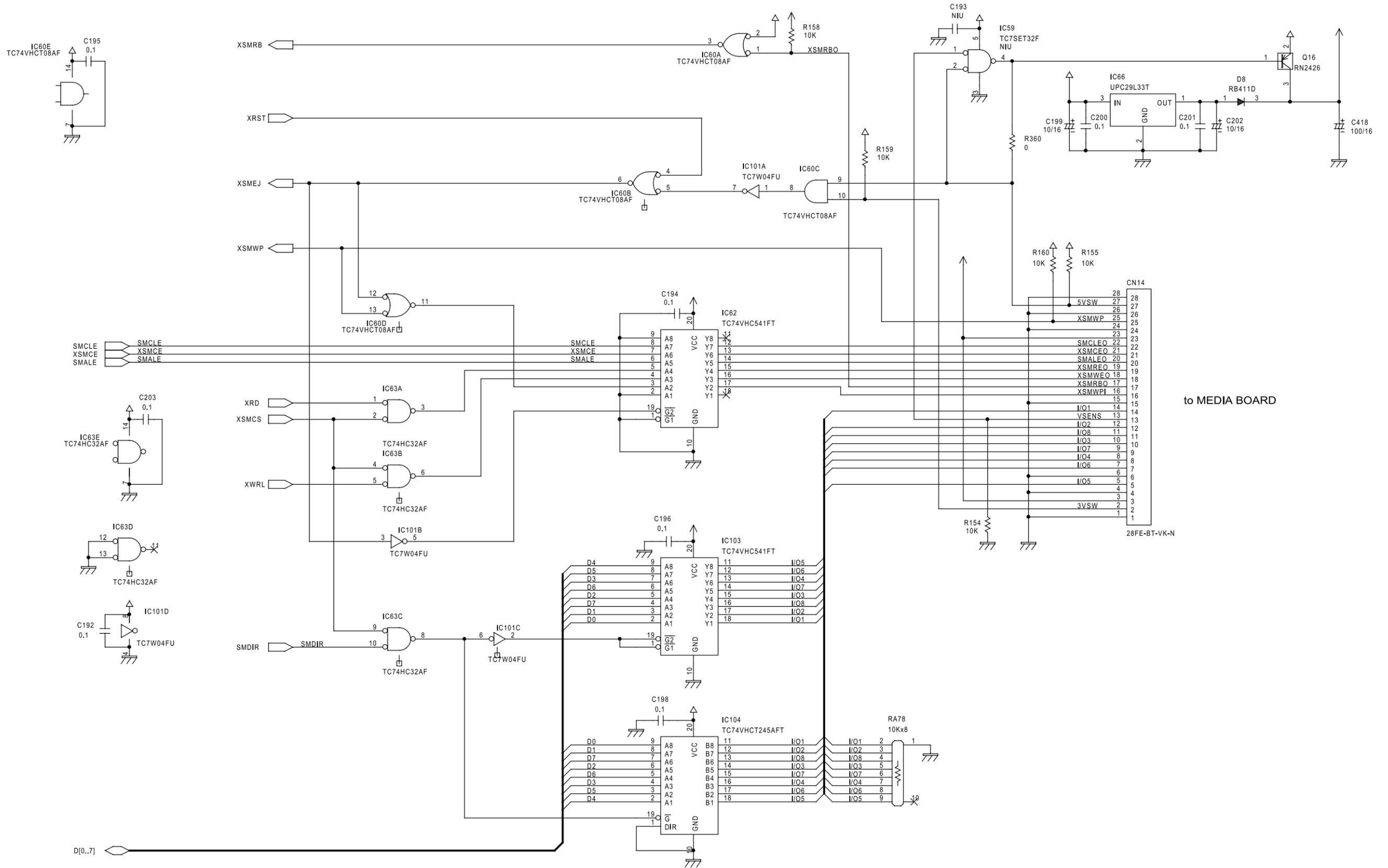


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

A CIRCUIT DIAGRAM

B MAIN BOARD

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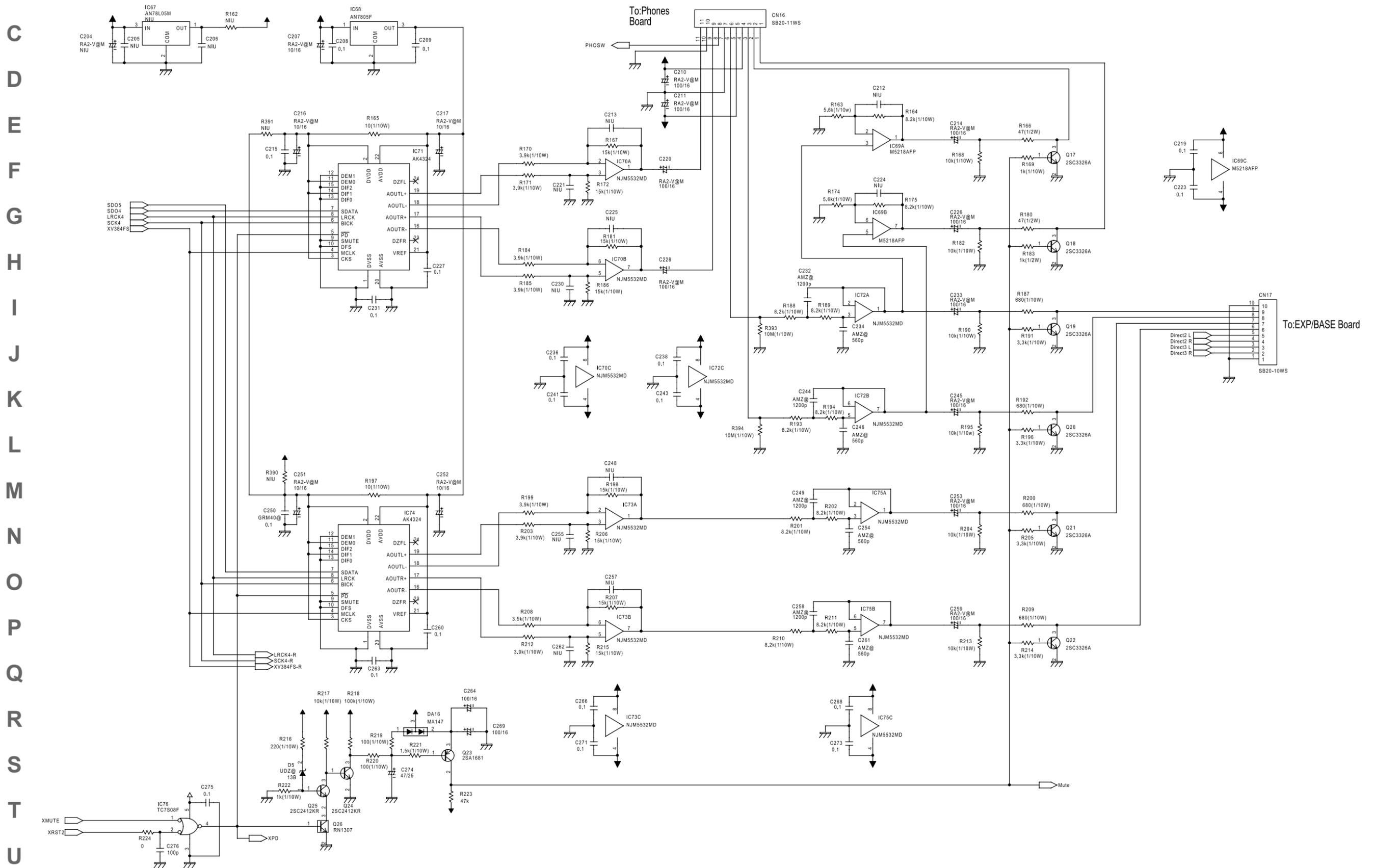


to MEDIA BOARD

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

A CIRCUIT DIAGRAM

B MAIN BOARD

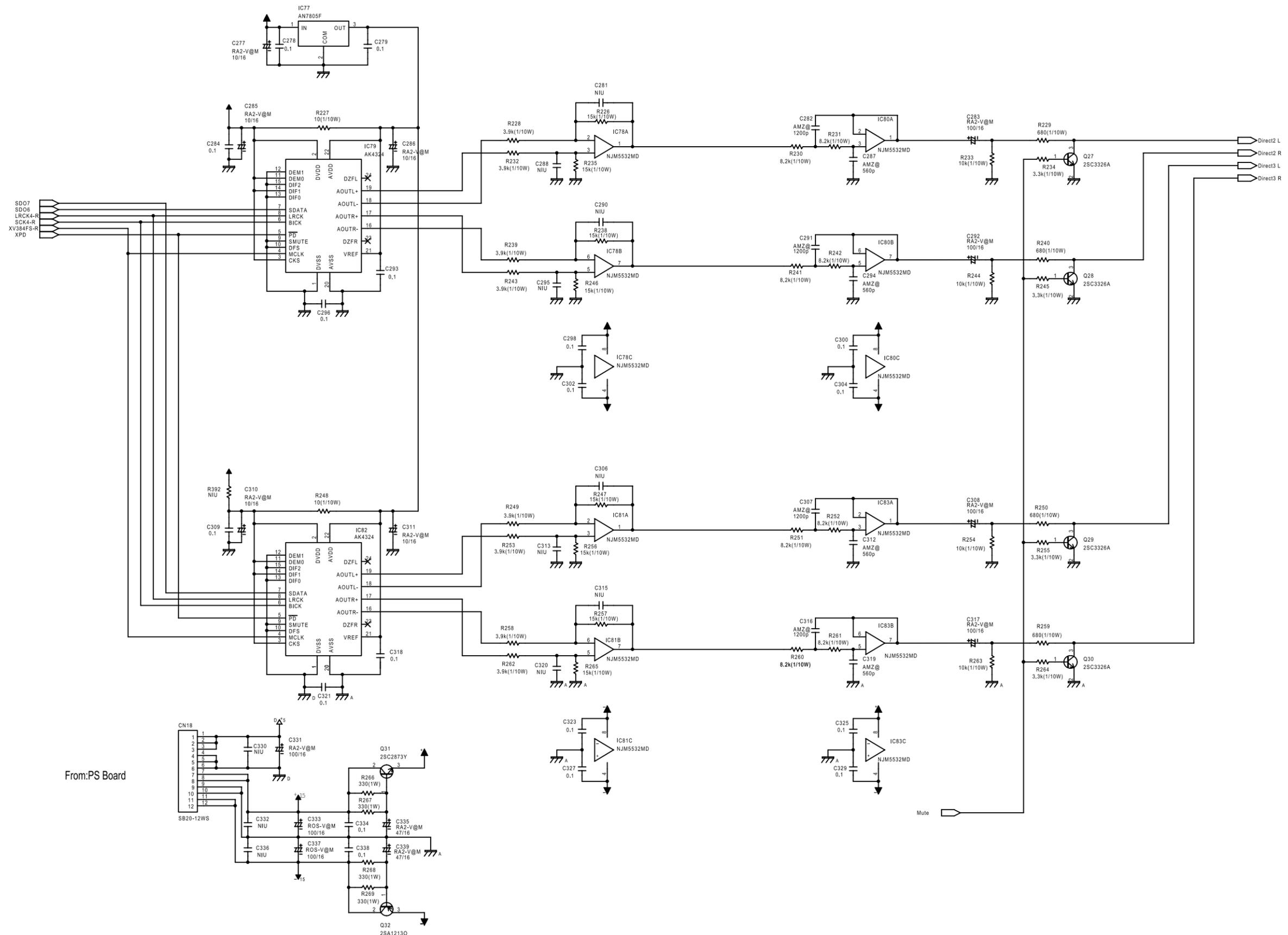


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

A CIRCUIT DIAGRAM

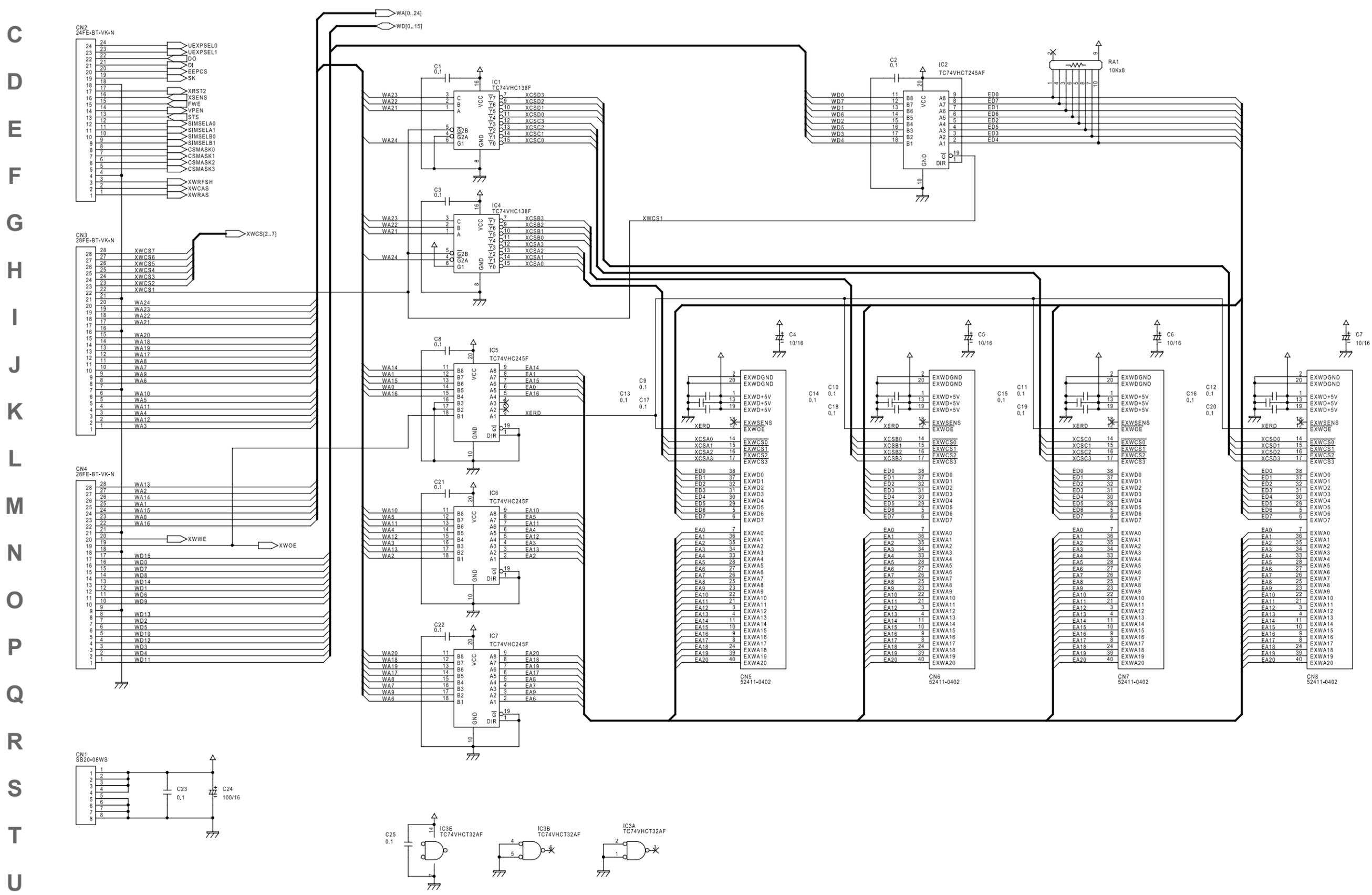
B MAIN BOARD

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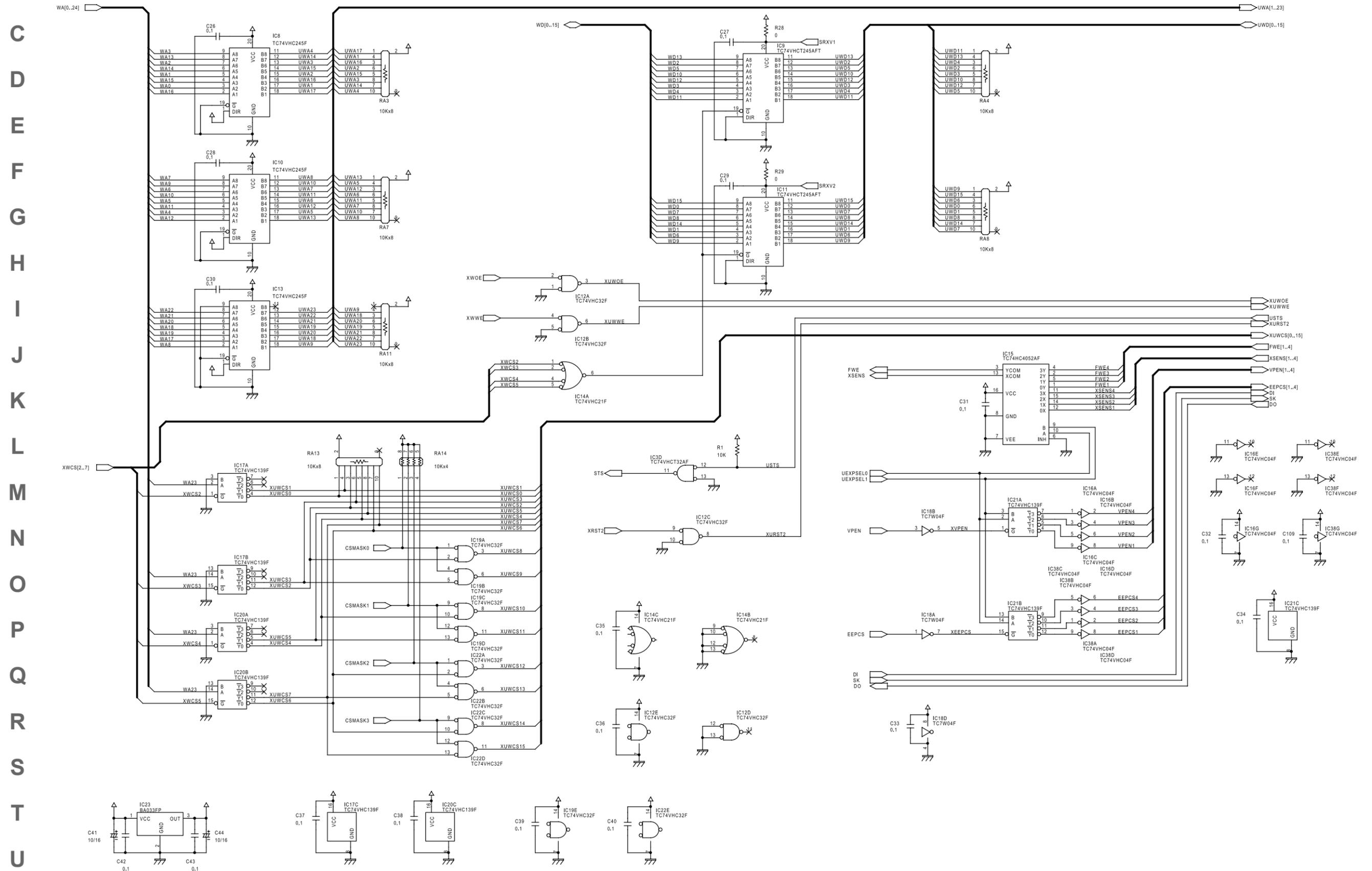
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

A CIRCUIT DIAGRAM B EXP BASE BOARD



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

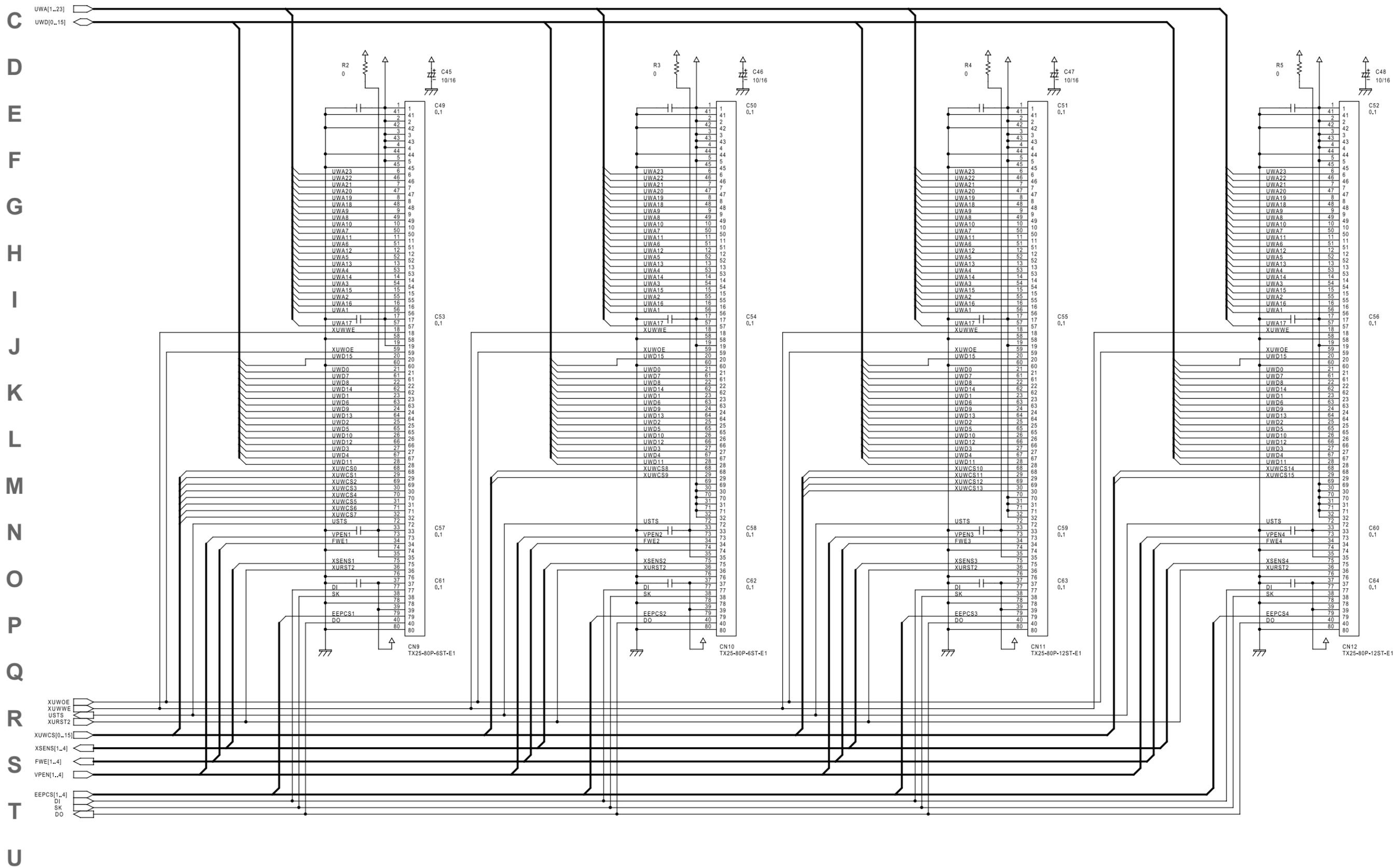
A CIRCUIT DIAGRAM B EXP BASE BOARD



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

A CIRCUIT DIAGRAM

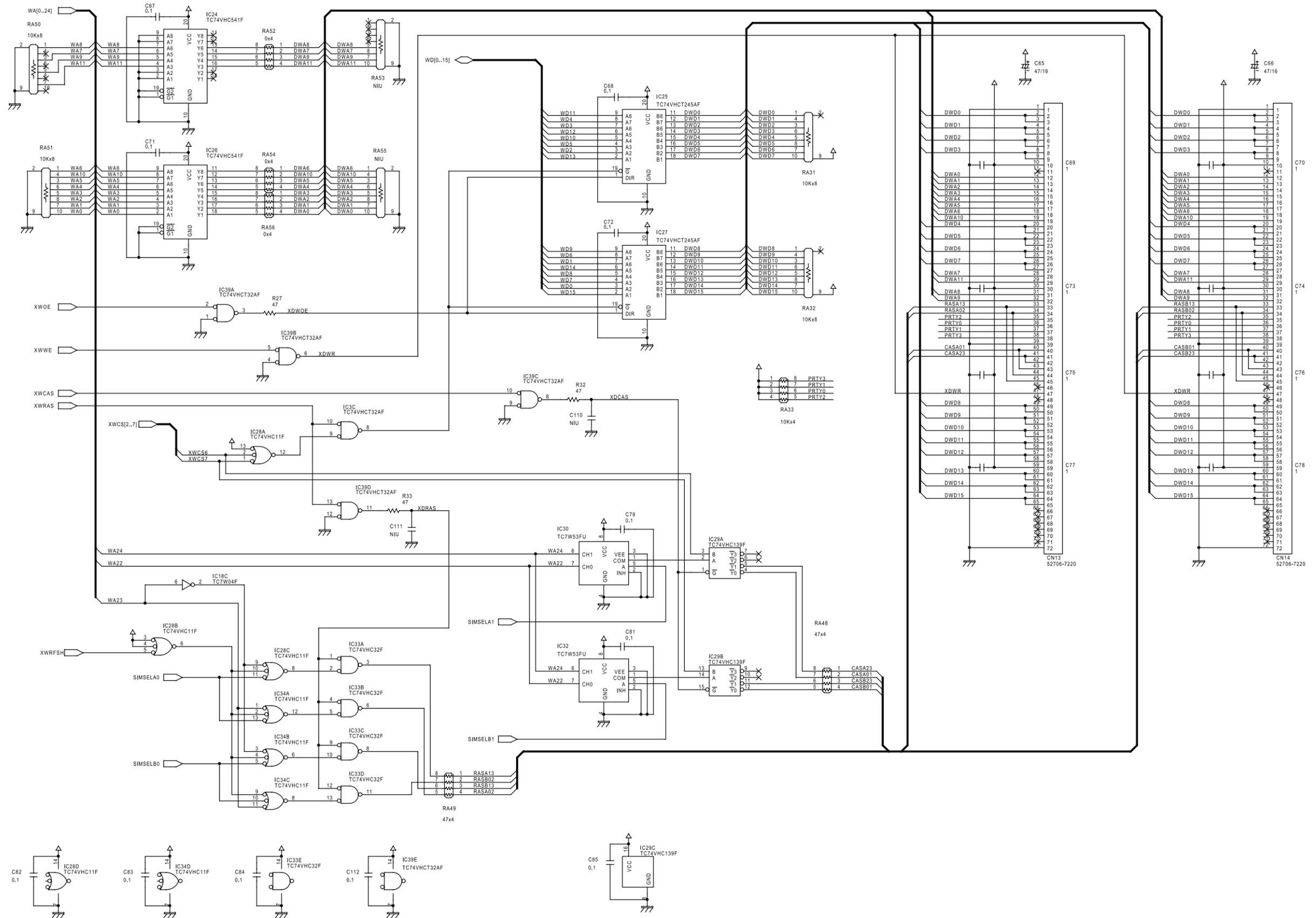
B EXP BASE BOARD



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

A CIRCUIT DIAGRAM
B EXP BASE BOARD

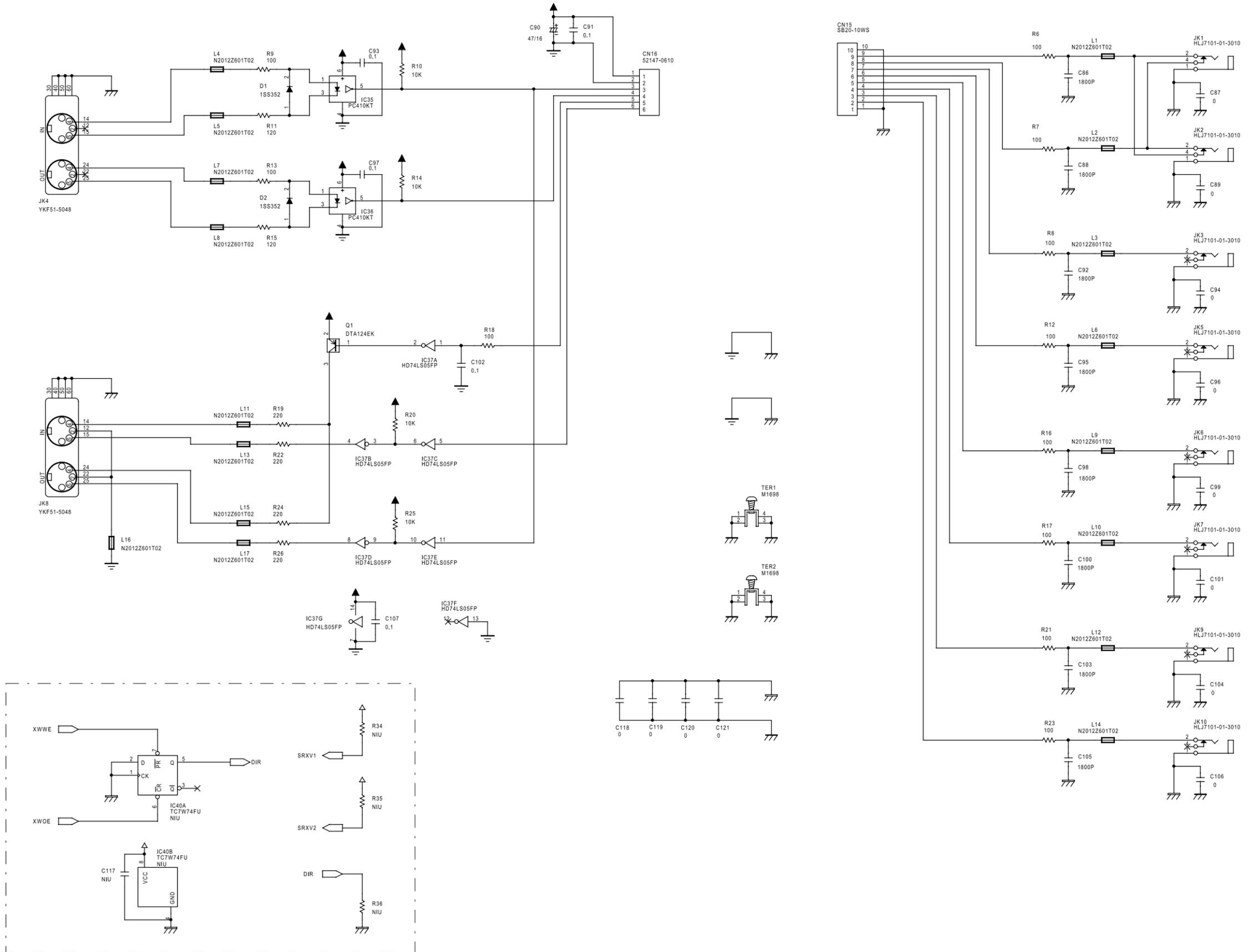
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A CIRCUIT DIAGRAM
B EXP BASE BOARD

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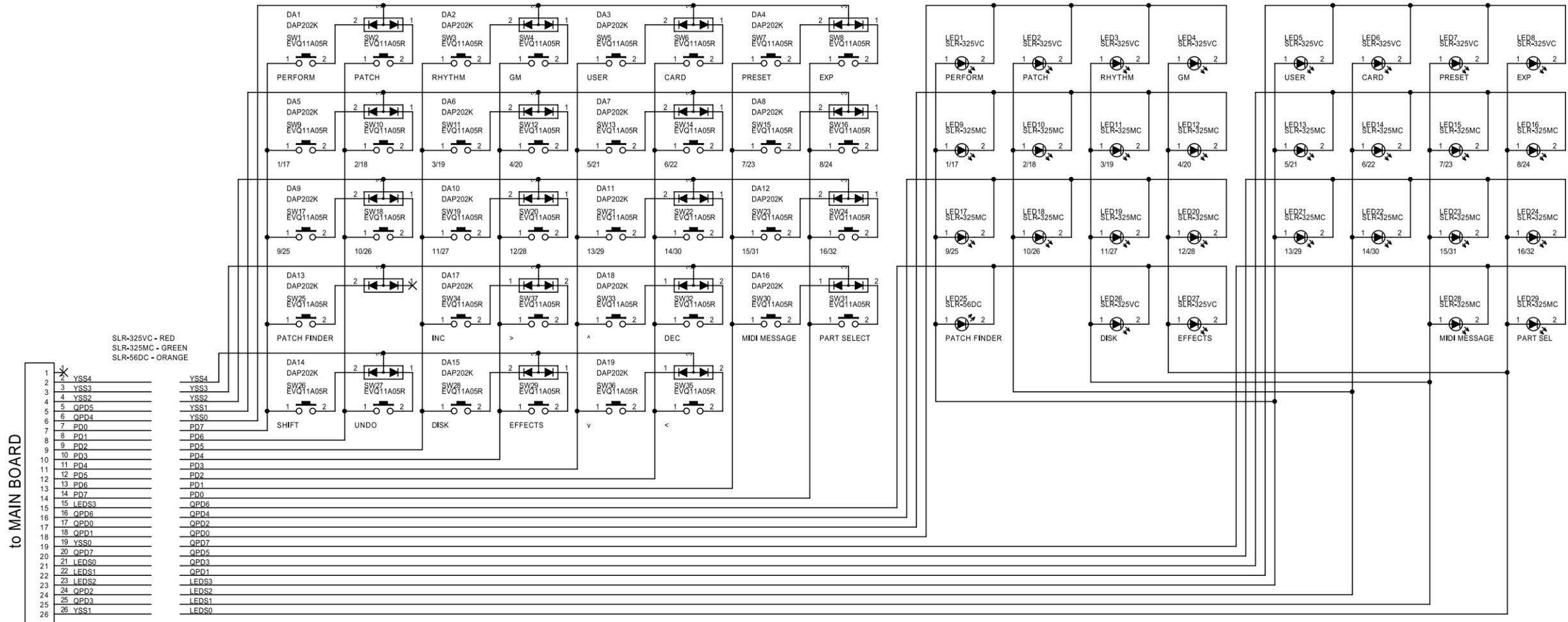


1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

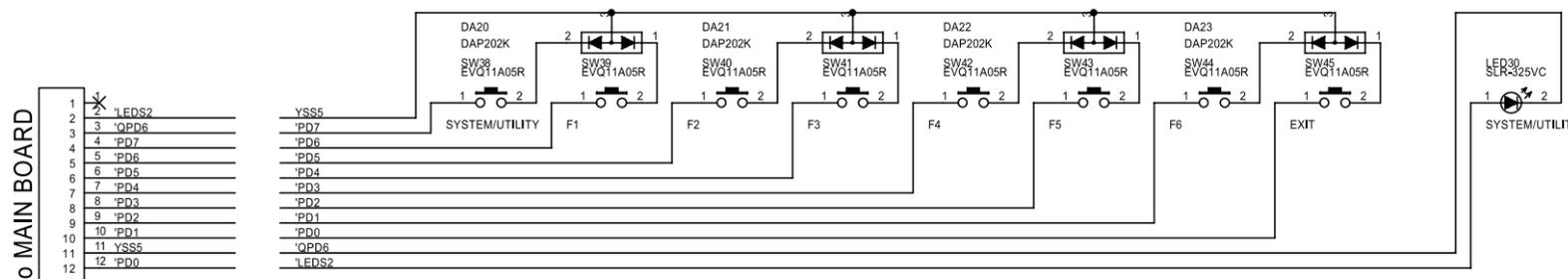
A CIRCUIT DIAGRAM

B PANEL-A BOARD, PANEL-B BOARD, ENCODER BOARD

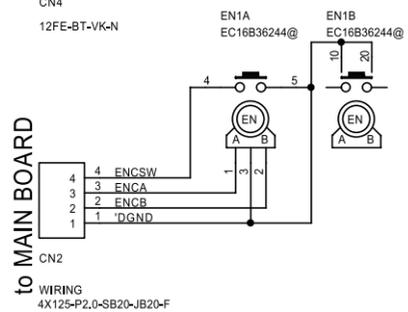
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PANEL-A BOARD



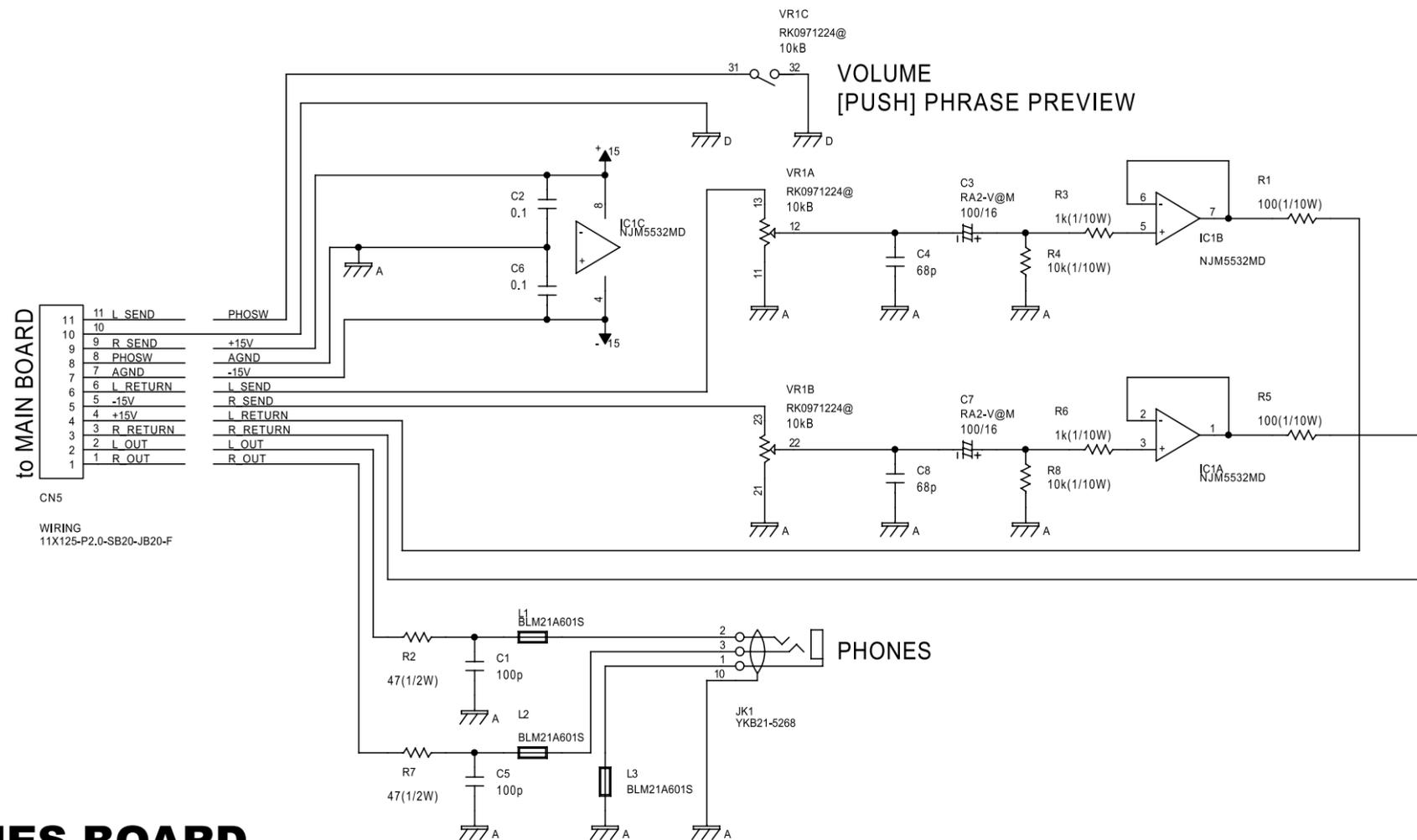
PANEL-B BOARD



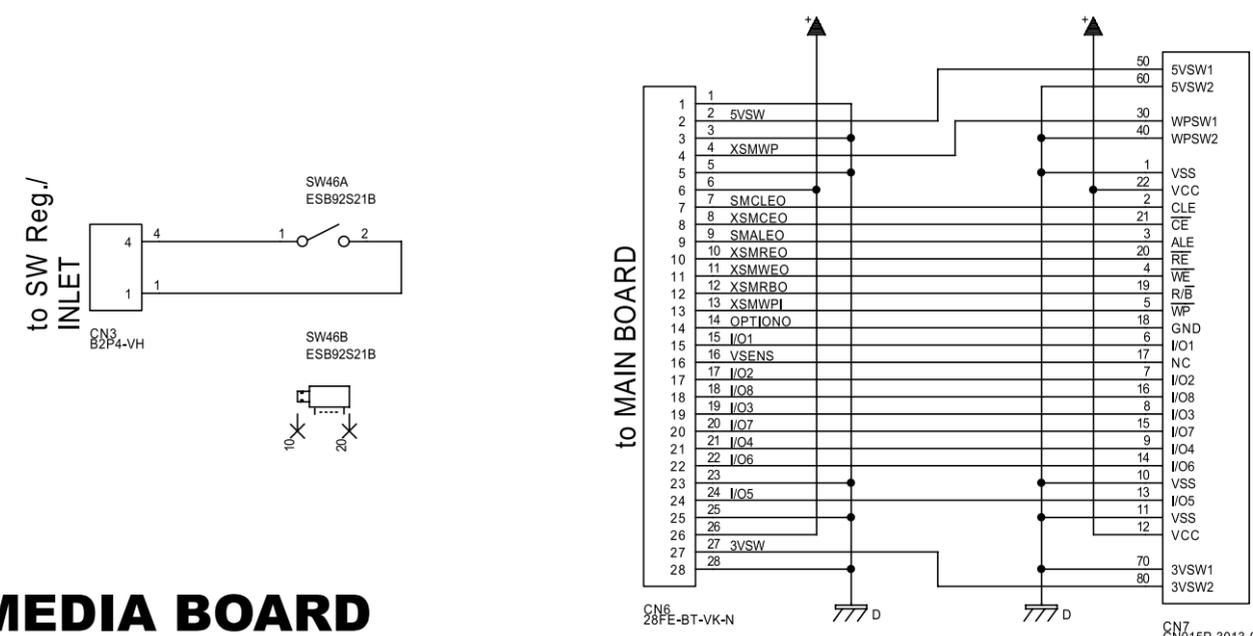
ENCODER BOARD

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

A CIRCUIT DIAGRAM
B PHONES BOARD, MEDIA BOARD



PHONES BOARD



MEDIA BOARD

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ERROR MESSAGES

If there has been a mistake in operation, or if the XV-5080 is unable to continue processing as you directed, an error message will appear in the display. Take the appropriate action for the displayed error message. This section gives the error messages in alphabetical order.

All Data on the Drive Will Be Lost.It Will Take a Long Time.Are You Sure?

Condition: When you execute a Full Format, all data on the disk will be lost. Also, a substantial length of time is required for a full format. Is it OK to execute the operation?

Action: To cancel the operation, press [EXIT].To execute the full format, press [F6 (OK)].

All Data on the Drive Will Be Lost.AreYou Sure?

Condition: When you execute a Quick Format, all data on the disk will be lost. Is it OK to execute the operation?

Action: To cancel the operation, press [EXIT]. To execute the full format, press [F6 (OK)].

Battery Low

Situation: The internal backup battery that is preserving the contents of user memory has run down.

Action: Consult your dealer or a nearby Roland service station to have the battery replaced.

Cannot Find Target File!

Condition:The performance specified for Auto Load was not found.

Action 1: Make sure that the drive you specified for Auto Performance Load is connected.

Action 2: In the case of a Zip disk, insert it into the drive.

Dest Disk Incorrect!

Cause: The media is of a format that cannot be written by the XV-5080.

Action: Prepare media of a format that the XV-5080 is able to write.

Disk Full!

Cause: The media is full.

Action: Either delete unneeded files (p. 198), or prepare another media.

Disk Not Ready!

Cause: The media is not ready.

Action: Insert another media.

DISK, Read Error!

Situation: An error occurred during read of the disk.

Action: This disk cannot be used.

DISK, Write Error!

Situation: An error occurred during writing to the disk.

Action: This disk cannot be used.

File Format Error

Situation: The XV-5080 cannot handle this file.

File I/O Error

Situation: It was not possible to save/load a file.

Action: Try the operation once again. If the same message appears, that file has been damaged. Delete the damaged file.

FILE NAME DUPLICATE, File (file name) Already Exists!

Situation: A folder with the same name already exists.

Action: Delete the file bearing the same name from the disk, and if over-writing and saving the data, merely save the file. If you do not want to delete the file with the same name from the disk, either save the file with a different name or save it to a different disk.

File Name (Folder, Volume)Format Error

Situation: A file name has not been assigned.

Action: Assign a file name.

File not Found

Situation: The specified file was not found.

Action: Insert the memory card that contains the specified file, and try the operation once again.

File Read Error!

Cause 1: The data is damaged, and cannot be loaded.

Action 1: Do not use this file.

Cause 2: A problem has occurred with the connected SCSI device.

Action 2: Check the connections and power supply of the SCSI device.

File Write Error!

Cause 1: The media is of a format to which the XV-5080 cannot write.

Action 1: Prepare a media that is of a format to which the XV-5080 is able to write.

Cause 2: A problem has occurred with the connected SCSI device.

Action 2: Check the connections and power supply of the SCSI device.

Folder Level Too Deep!

Cause: You have exceeded the allowable depth to which folders can be created.

Action: Create the folder at a shallower level of the folder hierarchy.

Format Completed!

Condition: Formatting has been completed.

Action: Press [F6 (ACCEPT)] to erase the message.

IMPROPER DISK, This Disk is not for the XV-5080.

Situation: The disk format is not one that can be used by the XV-5080.

Action: Exchange the disk with one in a format that the XV-5080 can use, or initialize the disk for use with the XV-5080.

Illegal Format!

Cause: Since the format of this file is incorrect, it cannot be loaded.

Action: Do not use this file.

Illegal PCM Wave! Cannot Load This Wave.

Cause: This file uses a type of compression that the XV-5080 is unable to read.

Action: Use the device that created the file to convert the data into an 8 bit or 16 bit wave.

Memory Card Full

Situation: There is insufficient space available on the memory card to save the data.

Action: Either insert a different memory card, or delete unnecessary data and try the operation once again.

Memory Card I/O Error

Situation: It is possible that the memory card has been scratched or otherwise damaged.

Action: If the memory card has been damaged, do not use that memory card. If the same error message appears repeatedly, consult your dealer or a nearby Roland service station.

Memory Card not Ready

Situation: A memory card is not inserted in the MEMORY CARD slot.

Action: Turn off the power, and insert a memory card.

Memory Card Write Protected

Situation: Since a write protect sticker is affixed to the memory card, data cannot be saved to the card bank.

Action: Remove the write protect sticker from the memory card.

Memory Error!

Cause: For some reason, wave memory cannot be read or written.

Action: The SIMM may be damaged. If the same message appears even after reinstallation, use a different SIMM.

Memory Full!

Cause: Due to insufficient wave memory, Reading is not possible.

Action: Delete unwanted samples from the XV-5080's memory .

MIDI Buffer Full

Situation: Due to an inordinate volume of MIDI messages received, the XV-5080 has failed to process them properly.

Action: Reduce the amount of MIDI messages to be transmitted.

MIDI Communication Error

Situation: A problem has occurred with the MIDI cable connections.

Action: Check that MIDI cables are not broken or pulled out.

Number '***' Will Be Deleted. Are You Sure?**

Condition: The sample at internal sample number '*****' will be deleted. Is it OK to execute?

Action: To cancel the operation, press [EXIT]. To execute the deletion, press [F6 (OK)].

PASSWORD PROTECTED, This Zip Disk is Protected by Password!

Situation: This disk is write-protected by password. The write protection cannot be removed with the XV-5080.

Action: Either use the device with which the password protection was applied to remove the protection, or prepare a Zip disk that is not write-protected.

Path Duplicate!

Cause: You are attempting to write to the same hierarchical level.

Action: Change the writing destination.

Path Name Too Long!

Cause: The path name is too long.

Action: Shorten the names of each folder. Alternatively, move the entire folder to a shallower level of the hierarchy .

* The "path" indicates the hierarchical level at which the file is located. It is given together with the folder name.

Performance (Patch/Partial/Sample) Full!

Situation: Although the specified data was loaded, the required free space for the Performance (Patch/Partial/Sample) is not available.

Action: Try loading again after deleting any unneeded Performances (Patches/Partials/Samples).

Receive Data Error

Situation: A MIDI message was received incorrectly.

Action: If the same error message is displayed repeatedly, there is a problem with the MIDI messages that are being transmitted to the XV-5080.

Source Disk Incorrect!

Cause: The operation you are attempting to execute does not support this media.

Action: Do not select this media as the object of the operation.

This Will Clear the File(s)/Folder(s).Are You Sure?

Condition: The file(s) or folder(s) will be deleted from the disk. Is it OK to execute?

Action: To cancel the operation, press [EXIT]. To execute the operation, press [F6 (OK)].

Too Many Files!

Cause: The maximum number of files that can be created in a folder has been exceeded.

Action: Either delete unneeded files , or write the file to a different folder.

Too Many Folders!

Cause: The maximum number of folders that can be created in a folder has been exceeded.

Action: Either delete unneeded folders , or create the folder in a different folder.

Unformatted Memory Card

Situation: This memory card cannot be used by the XV-5080.

Action: Format the memory card on the XV-5080.

Unknown Disk Error!

Cause: A disk error of unknown causes has occurred.

Action: Contact your dealer or a nearby Roland service center for service.

User Memory Damaged

Situation: The data in user memory has been lost.

Action: Use the Factor Reset function (UTILITY/FACTORY (MENU3)) to initialize the memory to the factory settings.

User Memory Write Protected

Situation 1: The Internal parameter (UTILITY/PROTECT (MENU1)) is turned ON.

Action 1: Turn the Internal parameter OFF.

Situation 2: The Exclusive parameter (UTILITY/PROTECT (MENU1)) is turned ON, and Exclusive messages cannot be received.

Action 2: Turn the Exclusive parameter OFF.

Write Protected!

Cause: The Zip disk is write protected.

Action: Provide a different media that can be written.

You Cannot Use This Device!

Cause: The operation you attempted to execute does not support this media

Action: Do not select this media for this operation.

