

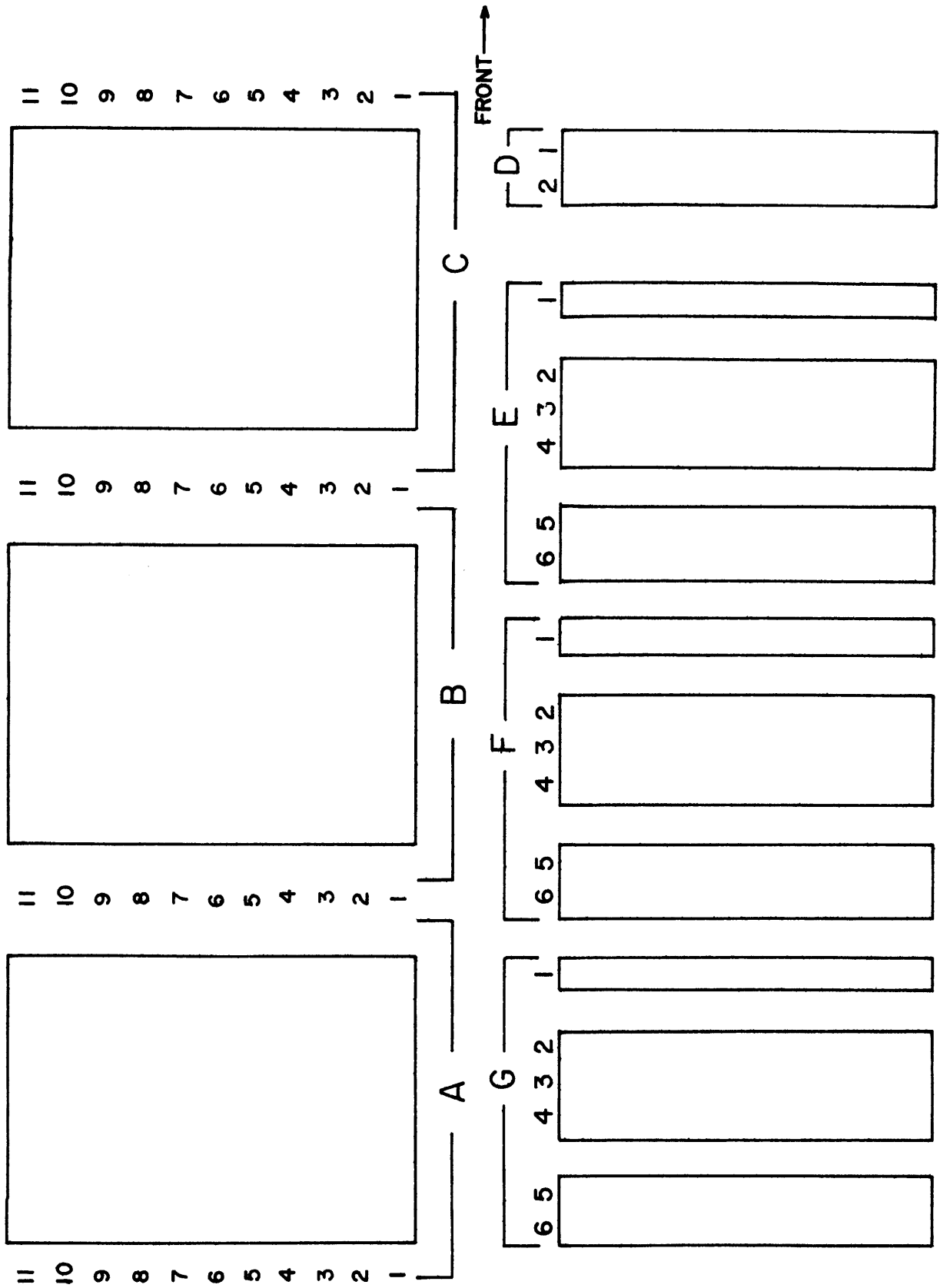
BNC SERIES AND SERIES 1080 SCHEMATICS

BNC AND 1080 WIRING LIST

The following wiring list contains an alphabetical list of signals by mnemonic followed by the pin positions in the wire wrap bed where they can be found.

The numbers to the left of the hyphen refer to the coordinates of the pin row and those to the right to the actual pin number in that row. The attached diagram shows the 1080 bed, containing the seven blocks A - G. Blocks A, B and C each contain 11 rows of pins, Block D contains two rows, and Blocks E, F and G six rows each.

As an example, BACØ, bit Ø of the buffered AC, can be found at 5C-60, or Block C, Row 5, Pin 60. Each of these numbers is actually printed on the wire wrap bed. Connector R refers to the rear connector.



BNC & 1080 LOGIC CONVENTIONS

All logic levels are DTL or TTL compatible. A logical one, a true, or a high is +3 to +5 volts and a logical zero, a false, or a low is 0 to +.4 volts. A signal is true if its assertion slate is high. A "not" signal is indicated by a minus sign and asserts by going low.

Fig. 1 shows the two kinds of gate symbols used. A small circle indicates that a signal is negated. Flip Flops are shown as rectangles. Anything that doesn't fit into this scheme, such as an adder, is drawn as a rectangle with an explanation written in it.

Signals are given mnemonic names which appear on circuit diagrams and printed circuit boards. Blocked signals (signal name is in a rectangle) on schematics leave the board, others do not.



AND GATE



OR GATE



NAND GATE

Fig. 1

ALPHABETICAL LIST 1080 WIRING

AAUS-	1D-18	2D-75	9A-70	10A-70		
A14	2A-38	GND				
ACTIVE-	3R-64	3C-42	4C-26	5C-22	9A-78	10A-78
AC0	1C-10	4A-58	3A-55			
AC0-	1C-8	5C-62	11C-12	3A-75		
AC1-	1C-18	5C-64	11C-14	3A-73		
AC2-	1C-26	5C-70	11C-18	3A-71		
AC3-	1C-44	5C-72	11C-20	3A-69		
AC4-	1C-56	5B-2	11C-28	3A-67		
AC5-	1C-72	5B-4	11C-30	3A-65		
AC6-	1B-2	5B-10	11C-34	3A-63		
AC7-	1B-12	5B-12	11C-36	3A-61		
AC8-	1B-18	5B-18	3A-59			
AC9-	1B-30	5B-20	3A-57			
AC10-	1B-44	5B-26	3A-19			
AC11-	1B-58	5B-28	3A-17			
AC12-	1B-68	5B-42	3A-15			
AC13-	1A-2	5B-44	3A-13			
AC14-	1A-8	5A-23	3A-11			
AC15-	1A-18	5A-25	3A-9			
AC16-	1A-30	5A-27	3A-7			
AC17-	1A-42	5A-29	3A-5			
AC18-	1A-52	5A-31	3A-3			
AC19	1A-68	4A-64				
AC19-	1A-66	4A-74	5A-33	3A-1		
ADA	2C-69	4B-24				
ADD	2D-6	9A-46	10A-46			
ADD1-	2A-34	9A-72	10A-72			
ADD2-	2A-36	9A-74	10A-74			
ADIA	2C-67	4B-20				
ADIR	2C-71	4B-28				
ADPCL	2C-73	4B-26				
ADPCU	2C-75	4B-22				
AMAS	2B-22	9A-1	10A-1			
AND	4B-58	1A-58				
ARAS	9A-11	10A-11	2B-24	3C-66		
AUSOF	1D-14	9A-76	10A-76			
AUTOSLEW		3C-3	1D-70			
AXD-	3C-62	5C-34	9A-9	10A-9		
BAC0	5C-60	9A-55	10A-55	3R-2		
BAC1	5C-66	3R-4				
BAC2	5C-68	3R-6				
BAC3	5C-74	3R-8				
BAC4	5C-76	3R-10				
BAC5	5B-6	3R-12				
BAC6	5B-8	3R-14				
BAC7	5B-14	3R-16				
BAC8	5B-16	3R-18				
BAC9	5B-22	3R-20				
BAC10	5B-24	3R-22				
BAC11	5B-30	3R-24				
BAC12	5B-32	3R-26				
BAC13	5B-46	3R-28				
BAC14	5A-14	3R-30				
BAC15	5A-16	3R-32				

BAC16	5A-18	3R-34						
BAC17	5A-20	3R-36						
BAC18	5A-22	3R-38						
BAC19	5A-24	3R-42						
BIR3	5B-76	9A-57	10A-57	3R-44				
BIR4	5B-50	9A-59	10A-59	3R-46				
BIR5	5B-52	9A-61	10A-61	3R-48				
BIR6	5B-60	9A-63	10A-63	3R-50				
BIR7	5A-4	9A-65	10A-65	3R-52				
BL	5A-42	3R-54						
CAL-	5C-16	1D-62						
CIN	1C-3	4B-56						
CLAMP	5A-63	1D-64						
CMAS-	2B-36	9A-3	10A-3					
CM01	5C-52							
CONT-	3C-10	2D-31						
COUT	1A-72	4A-68	3B-42					
CRAS-	9A-13	10A-13	2B-38	3C-48				
CRT	3C-4	1D-66						
CRTREAL	3C-1	1D-68						
DIGIN-	1D-72							
DIGOUT-	1D-74							
DISABLE-		3C-24	9A-15	10A-15				
DISVD-	1D-44	9A-62	10A-62					
DP	2A-49	3B-22	4C-24					
DPLITE	2D-33	4C-28	4R-41					
DPSHIF-	4A-14	3B-16						
DPSTOPLITE		2D-35	4C-30	4R-43				
DWELL	3C-7	9A-17	10A-17					
ENABTTY	11B-60	TTY-4						
ERASE-	3C-26	2D-27						
FDATA-	11B-42	TTY-2						
GDB	1A-71	3C-68						
GND	PINS	39-40-79-80		ALL BOARDS				
IN ADDITION:								
1E, 1F, 1G, 3E, 3F, 3G, 6E, 6F, 6G				41-42				
2E, 2F, 2G		1-2-41-42		1SD-27	1SD-28			
1SW-27	1SW-28	PWR-3-5-7		TTY-5				
GO	3C-2	5A-56						
HDP	3A-60	4B-5						
HOLD	3A-62	4C-34						
HP	3A-70	4A-49						
HQGND	5A-60-62-64-66	PWR-11-14						
ICO	4A-10	9A-64	10A-64	5B-64	2D-53	3A-66		
IMHER-	2E-52	2F-52	2G-52	2A-10	1R-52			
INPUT-	2D-14	9A-50	10A-50					
INTENSIFY		5A-65	5C-44					
IOP	3R-56	4A-17	11B-56					
IOP1	3R-58	4A-43	9A-66	10A-66	11C-6	2D-55	5C-26	3B-74
IOP2	5C-32	11C-68	9A-75	10A-75	4A-45	3R-60	3B-60	
IOP3	3R-62	4A-47	9A-77	10A-77	11C-64	5C-56	3B-70	
IOP1	3B-74	4A-43						
IOP2	3B-60	4A-45						
IOP3	3B-70	4A-47						
IPC	2C-49	4B-63	4A-34	3B-64				
IR0	2C-15	3B-24	4A-70	4R-76				
IR0-	2C-30							

IR1	2C-11	3B-28	4A-66	4R-74		
IR1-	2C-20					
IR2	2C-13	3B-26	4A-62	4R-72		
IR2-	2C-22					
IR3	2D-41	2C-9	3B-30	11B-46	4A-60	4R-70
IR3-	2C-18	5B-74	11B-44			
IR4	2D-57	2C-7	4C-74	3B-4	4A-46	4R-68
IR4-	2C-16	3B-6	5B-72	11B-48		
IR5	2C-3	3B-14	11B-50	4A-52	4R-66	
IR5-	2D-59	2C-8	5B-70	4A-44		
IR6	2C-5	4A-26	4R-64	3B-56		
IR6-	2D-61	2C-10	5B-68	11B-52	4A-20	
IR7	2C-1	4A-18	4R-62	3B-54		
IR7-	2D-63	2C-2	11B-54	5A-2	4A-22	
IR8	2B-17	4A-12	4R-60			
IR8-	2B-14	4A-19	3B-50			
IR9	2B-15	4A-16	4R-58	3B-48		
IR9-	2C-76	4A-31				
IR10	2B-6	4A-32	4R-56			
IR10-	2B-4	4B-60				
IR11	2C-74	4B-73	4R-54	3B-46		
IR11-	2C-72	4B-62	4A-28			
IR12	2C-64	4A-24	4R-52			
IR12-	2C-70	4B-64				
IR13	2B-3	4B-72	4R-50			
IR13-	2C-58	4B-66				
IR14	2C-62	4B-74	4A-72	4R-48		
IR14-	2C-60	4B-68				
IR15	2B-1	3B-20	4B-76	4R-46		
IR15-	2C-52	3B-18	4B-70			
IR16	4B-69	4R-44				
IR17	4B-71	4R-42				
IR18	4B-11	4R-38				
IR19	4R-36	4A-30	4B-67			
IR19-	3B-44	4B-9				
ISAC19-	1A-64	4A-4				
IZ	5C-58					
L	4A-54	5A-44				
LAC	1A-74	4B-48	3B-1			
LCAC	1A-60	4B-50				
LCMB-	1C-24	4B-52				
LINK1	1SD-1	1SW-1				
LINK2	1SD-2	1SW-2				
LINK3	1SD-3	1SW-3				
LINK4	1SD-4	1SW-4				
LINK5	1SD-5	1SW-5				
LINK6	1SD-6	1SW-6				
LINK7	1SD-7	1SW-7				
LINK8	1SD-8	1SW-8				
LINK9	1SD-9	1SW-9				
LINK10	1SD-10	1SW-10				
LLSH	1C-4	3C-72				
LMB-	1B-66	4B-54				
LONE	3A-64	1C-1				
LP0	1C-20	4R-75				
LP1	1C-21	4R-73				
LP2	1C-28	4R-71				
LP3	1C-42	4R-69				

LP4	1C-58	4R-67				
LP5	1C-60	4R-65				
LP6	1B-4	4R-63				
LP7	1B-14	4R-61				
LP8	1B-20	4R-59				
LP9	1B-32	4R-57				
LP10	1B-46	4R-55				
LP11	1B-60	4R-53				
LP12	1B-70	4R-51				
LP13	1A-4	4R-49				
LP14	1A-20	4R-47				
LP15	1A-10	4R-45				
LPC	1C-6	4B-57				
LREAD	2E-19	3E-17	6E-17			
LREAD	2F-19	3F-17	6F-17			
LREAD	2G-19	3G-17	6G-17			
LSH	1A-75	3C-70				
LWRITE	2E-33	3E-15	6E-15			
LWRITE	2F-33	3F-15	6F-15			
LWRITE	2G-33	3G-15	6G-15			
LSTROBE	1E-56	2E-23				
LSTROBE	1F-56	2F-23				
LSTROBE	1G-56	2G-23				
M-	3C-9	9A-19	10A-19			
MA0-	2C-65	3E-3	3F-3	3G-3	IR-47	
MA1-	2C-63	3E-5	3F-5	3G-5	IR-49	
MA2-	2C-47	3E-7	3F-7	3G-7	IR-51	
MA3-	2C-37	6E-3	6F-3	6G-3	IR-53	
MA4-	2C-61	6E-5	6F-5	6G-5	IR-55	
MA5-	2C-59	6E-7	6F-7	6G-7	IR-57	
MA6-	2C-35	6E-9	6F-9	6G-9	IR-59	
MA7-	2C-31	6E-11	6F-11	6G-11	IR-61	
MA8-	2B-55	6E-13	6F-13	6G-13	IR-63	
MA9-	2B-53	3E-9	3F-9	3G-9	IR-65	
MA10-	2B-45	3E-11	3F-11	3G-11	IR-67	
MA11-	2B-29	3E-13	3F-13	3G-13	IR-69	
MACRY	2A-32					
MASOF	2B-62	9A-5	10A-5			
MAS1	2A-47	2D-42				
MAS2	2B-54	2D-38				
MAS4	2A-45	2D-48				
MAS8	2B-56	2D-32				
MB0	2C-32	1C-12	2E-6	2F-6	2G-6	IR-6
MB1	2C-26	1C-22	2E-8	2F-8	2G-8	IR-8
MB2	2C-28	1C-30	2E-10	2F-10	2G-10	IR-10
MB3	2C-24	1C-52	2E-12	2F-12	2G-12	IR-12
MB4	2C-14	1C-64	2E-14	2F-14	2G-14	IR-14
MB5	2C-6	1C-76	2E-16	2F-16	2G-16	IR-16
MB6	1B-6	2C-12	2E-18	2F-18	2G-18	IR-18
MB7	1B-16	2C-4	2E-20	2F-20	2G-20	IR-20
MB8	1B-22	2B-16	2E-22	2F-22	2G-22	IR-22
MB9	2B-10	1B-34	2E-24	2F-24	2G-24	IR-24
MB10	2B-12	1B-48	2E-56	2F-56	2G-56	IR-26
MB11	2B-8	1B-62	2E-58	2F-58	2G-58	IR-28
MB12	1B-72	2C-68	2E-60	2F-60	2G-60	IR-30
MB13	1A-6	2C-56	2E-62	2F-62	2G-62	IR-32
MB14	1A-12	2C-66	2E-64	2F-64	2G-64	IR-34
MB15	1A-22	2C-54	2E-66	2F-66	2G-66	IR-36

MB16	4B-32	1A-34	2E-68	2F-68	2G-68	IR-38
MB17	2E-70	2F-70	2G-70	1A-46	4B-36	IR-56
MB18	2E-72	2F-72	2G-72	1A-56	4B-30	IR-58
MB19	2E-74	2F-74	2G-74	1A-70	4B-38	IR-60
MEM-	2D-8	9A-48	10A-48			
MIDX	5A-6	2D-19				
MIDY	5B-48	2D-13				
MLITE	3C-56	1D-58				
MNO	2D-3	9A-42	10A-42			
MNC	2D-5	9A-44	10A-44			
NXMLIT	2A-6	1D-60				
P6	3B-52	4C-32				
PC0	1C-14	2C-57				
PC1	1C-16	2C-55				
PC2	1C-34	2C-45				
PC3	1C-36	2C-43				
PC4	1C-68	2C-53				
PC5	1C-70	2C-51				
PC6	1B-8	2C-33				
PC7	1B-10	2C-29				
PC8	1B-26	2B-59				
PC9	1B-28	2B-51				
PC10	1B-52	2B-35				
PC11	1B-54	2B-33				
PC12	1B-74	2B-49				
PC13	1B-76	2B-47				
PC14	1A-14	2B-27				
PC15	1A-16	2B-25				
PROT-	2A-51	2D-25				
PSTART-	2D-67	4C-72	3R-67			
R-	3C-22	9A-21	10A-21			
RAC-	1C-54	4A-6				
RAC19-	1A-62	4A-8				
RASH	1A-73	3C-76				
RASOF	3C-6	2B-26	9A-7	10A-7		
RAS1	2B-52	2D-71				
RAS2	2B-58	2D-74				
RAS4	2B-50	2D-50				
RAS8	2B-60	2D-72				
RAUS-	1D-12	2D-29	9A-60	10A-60		
REALPLOT		3C-5	1D-52			
READ	2E-54	2F-54	2G-54	2A-14	4B-16	IR-54
REAR1	5A-43					
REAR2	5A-45					
REAR3	5A-47					
REAR4	5A-59					
REAR5	5A-61					
REAR6	5A-67					
REAR7	5A-69					
RLITE	3C-50	1D-54				
RLSH	1A-76	3C-74				
RMBL-	2A-18	1B-38	4B-3	3C-16		
RMBU-	1A-36	4B-1	3C-14			
RNO	3C-46	2D-7				
RPC-	2B-23	2C-27	4C-17			
RSH	1C-2	3B-2				
RX	5C-12	2D-17				
RXD-	3C-58	5C-10	9A-79	10A-79		

RY	5A-12	2D-11					
SAC0-	3R-1	9A-2	10A-2	11B-2	1C-5	2D-73	3A-16
SAC1-	3R-3	9A-4	10A-4	11B-1	1C-15	2D-76	3A-18
SAC2-	3R-5	9A-6	10A-6	11B-3	1C-27	2D-54	3A-20
SAC3-	3R-7	9A-8	10A-8	11B-4	1C-43	2D-70	3A-22
SAC4-	3R-9	9A-10	10A-10	11B-8	1C-55	2D-62	3A-24
SAC5-	3R-11	9A-12	10A-12	11B-5	1C-69	2D-68	3A-26
SAC6-	3R-13	9A-14	10A-14	11B-7	1C-75	2D-60	3A-28
SAC7-	3R-15	9A-16	10A-16	11B-10	1B-3	2D-52	3A-30
SAC8-	3R-17	9A-18	10A-18	1B-13	2D-44	3A-32	
SAC9-	3R-19	9A-20	10A-20	1B-29	2D-36	3A-34	
SAC10-	3R-21	9A-22	10A-22	1B-41	2D-46	3A-36	
SAC11-	3R-23	9A-24	10A-24	1B-57	2D-34	3A-38	
SAC12-	3R-25	9A-26	10A-26	1B-69	2D-26	3A-42	
SAC13-	3R-27	9A-28	10A-28	1A-1	2D-28	3A-44	
SAC14-	3R-29	9A-30	10A-30	1A-5	2D-20	3A-46	
SAC15-	3R-31	9A-32	10A-32	1A-15	2D-18	3A-48	
SAC16-	3R-33	9A-34	10A-34	1A-27	2D-4	3A-50	
SAC17-	3R-35	9A-36	10A-36	1A-43	2D-12	3A-52	
SAC18-	3R-37	9A-38	10A-38	1A-55	2D-10	3A-54	
SAC19-	3R-41	9A-40	10A-40	4A-27	2D-2	3A-56	
SELECT	11B-62	TTY-1					
SEL0	2A-60	2E-50					
SEL1	2A-62	1R-62					
SEL10	2A-59	2G-50					
SEL11	2A-61	2F-50					
SEL12	2A-63	1R-64					
SEL13	2A-65	1R-66					
SEL14	2A-67	1R-68					
SEL15	2A-69	1R-70					
SEL16	2A-71	1R-72					
SEL17	2A-73	1R-74					
SHIFT-	3C-34	9A-23	10A-23				
SKIP-	11C-58	9A-33	10A-33	4A-29	3R-66		
SMB0-	1C-7	1E-2	1F-2	1G-2	IR-3		
SMB1-	1C-23	1E-4	1F-4	1G-4	IR-5		
SMB2-	1C-35	1E-6	1F-6	1G-6	IR-7		
SMB3-	1C-49	1E-8	1F-8	1G-8	IR-9		
SMB4-	1C-63	1E-20	1F-20	1G-20	IR-11		
SMB5-	1C-73	1E-22	1F-22	1G-22	IR-13		
SMB6-	1B-1	1E-24	1F-24	1G-24	IR-15		
SMB7-	1B-9	1E-26	1F-26	1G-26	IR-17		
SMB8-	1B-21	1E-32	1F-32	1G-32	IR-19		
SMB9-	1B-37	1E-34	1F-34	1G-34	IR-21		
SMB10-	1B-49	1E-36	1F-36	1G-36	IR-23		
SMB11-	1B-65	1E-38	1F-38	1G-38	IR-25		
SMB12-	1B-75	1E-58	1F-58	1G-58	IR-27		
SMB13-	1A-3	1E-60	1F-60	1G-60	IR-29		
SMB14-	1A-7	1E-62	1F-62	1G-62	IR-31		
SMB15-	1A-23	1E-64	1F-64	1G-64	IR-33		
SMB16-	1A-35	1E-68	1F-68	1G-68	IR-35		
SMB17-	1A-51	1E-70	1F-70	1G-70	IR-37		
SMB18-	1A-63	1E-72	1F-72	1G-72	IR-43		
SMB19-	1A-69	1E-74	1F-74	1G-74	IR-45		
SPARE1	4R-31						
SPARE2	4R-33						
SPARE3	4R-35						
SPARE4	4R-32						

SPARE5	4R-34							
START-	4C-70	2D-65						
STOP-	9A-68	10A-68	3C-64	1D-50				
STOPCAL	5C-14	2D-15						
SX	5C-8	2D-21						
SY	5A-41	2D-23						
TAC	1B-56	3B-12						
TACXD-	5C-24	9A-67	10A-67					
TACYD-	3C-60	5C-30	9A-69	10A-69				
TDBAC-	3B-10	4A-25						
TDBMB	1A-26	4B-46						
TIAPCL-	2C-41	4B-61						
TIAPCU-	2B-31	4B-44						
TMBIA-	2C-19	2B-21	4B-65					
TMBIR	2C-17	2B-19	4B-34					
TRAA	2A-58	3C-20						
VD0	9A-52	10A-52	3B-38	1D-46				
VD1	9A-54	10A-54	3B-34	1D-42				
VD2	9A-56	10A-56	3B-36	1D-48				
VD3	9A-58	10A-58	3B-32	1D-28				
WRITE	4B-12	2E-48	2F-48	2G-48	IR-48			
WSTOPLITE		3C-30	1D-56					
XADPC-	4B-7	3R-57	9A-35	10A-35	3B-76			
XCIN-	4B-75	9A-37	10A-37					
XIPC-	4A-13	3R-59						
XLAC-	4A-7	3R-49	9A-39	10A-39				
XLCAC-	4A-5	9A-41	10A-41					
XLCMB-	4A-1	9A-43	10A-43					
XLMB-	3C-18	4A-3	3R-51	9A-25	10A-25			
XPNDISP-		5A-8	9A-71	10A-71				
XRAC-	4A-15	3R-43	9A-45	10A-45	3B-62			
XREAD-	3C-12	4B-18	3R-45	9A-27	10A-27			
XSTART-	4C-68	3R-63	9A-47	10A-47				
XSTOP-	2D-69	4C-66	3R-65					
XTDBAC-	3C-38	3B-8	3R-55	9A-29	10A-29			
XTDBMB-	3R-53	4A-9	9A-49	10A-49				
XTMBPC-	3R-61	4A-11	9A-51	10A-51				
XWRITE-	3C-36	4B-14	9A-31	10A-31	3R-47			
YPOSDISP-		5A-10	9A-73	10A-73				
ZERO	1A-38	4A-2						
1KM-	2B-64	2D-24						
2KM-	2B-66	2D-30						
4KM-	2B-68	2D-22						
8KM-	2B-70	2D-16						
1KR-	2B-28	2D-64						
2KR-	2B-34	2D-66						
4KR-	2B-32	2D-58						
8KR-	2B-30	2D-56						
1KXD	5C-5	1D-38						
2KXD	5C-7	1D-36						
4KXD	5C-9	1D-34						
8KXD	5C-11	1D-32						
16KXD	5C-13	1D-30						
2MHZ	3C-8	4C-36	9A-53	10A-53				
+5	PINS 77-78		EXCEPT	9A AND 10A				
PWR-4-6-8		1SD-25	1SD-26	1SW-25	1SW-26			
+14	3E-36	3F-36	3G-36	6E-36	6F-36	6G-36	Z14	
+15	5A-72	1SD-24	1SW-24	PWR-10				

+24	2E-3-4-75-76		2F-3-4-75-76		2G-3-4-75-76		PWR-15
3E-1	3F-1	3G-1	6E-1	6F-1	6G-1	1R-44	PWR-9
+50	5A-76	1SD-23	1SW-23	PWR-16			
-5	1E-1	1F-1	1G-1	5A-46	1SD-29	1SW-29	PWR-2
-15	5A-70	1SD-30	1SW-30	TTY-3	PWR-12		
-50	5A-74	1SD-31	1SW-31	PWR-13			

ALPHABETICAL LIST BNC-12 WIRING

A14	2A-38	GND				
ACTIVE-	3R-64	3C-42	4C-26	5C-22	7C-76	FB-04
AC0	1C-10	4A-58	3A-55			
AC0-	1C-8	5C-62	11C-12	3A-75		
AC1-	1C-18	5C-64	11C-14	3A-73		
AC2-	1C-26	5C-70	11C-18	3A-71		
AC3-	1C-44	5C-72	11C-20	3A-69		
AC4-	1C-56	5B-2	11C-28	3A-67		
AC5-	1C-72	5B-4	11C-30	3A-65		
AC6-	1B-2	5B-10	11C-34	3A-63		
AC7-	1B-12	5B-12	11C-36	3A-61		
AC8-	1B-18	5B-18	3A-59			
AC9-	1B-30	5B-20	3A-57			
AC10-	1B-44	5B-26	3A-19			
AC11-	1B-58	5B-28	3A-17			
AC12-	1B-68	5B-42	3A-15			
AC13-	1A-2	5B-44	3A-13			
AC14-	1A-8	5A-23	3A-11			
AC15-	1A-18	5A-25	3A-9			
AC16-	1A-30	5A-27	3A-7			
AC17-	1A-42	5A-29	3A-5			
AC18-	1A-52	5A-31	3A-3			
AC19	1A-68	4A-64				
AC19-	1A-66	4A-74	5A-33	3A-1		
ADA	2C-69	4B-24				
ADD1-	2A-34	7B-30	9A-09			
ADIA	2C-67	4B-20				
ADIR	2C-71	4B-28				
ADPCL	2C-73	4B-26				
ADPCU	2C-75	4B-22				
AMAS	2B-22	7B-58	9A-19			
AND	4B-58	1A-58				
ARAS	2B-24	3C-66				
ASEL	9B-08	2D-15				
AUTOSLEW		3C-3	1D-70			
AXD-	3C-62	5C-34	7B-36			
BAC0	5C-60	7C-56	9A-15	7A-70	3R-2	FA-01
BAC1	5C-66	7C-54	7A-72	3R-4	FA-02	
BAC2	5C-68	7C-52	7A-74	3R-6	FA-03	
BAC3	5C-74	7C-50	7A-76	3R-8	FA-04	
BAC4	5C-76	7C-46	7A-62	3R-10	FA-05	
BAC5	7C-44	5B-6	7A-64	3R-12	FA-06	
BAC6	7C-42	5B-8	7A-66	3R-14	FA-07	
BAC7	7C-38	5B-14	7A-68	3R-16	FA-08	
BAC8	7C-34	5B-16	7A-54	3R-18	FA-09	
BAC9	7C-32	5B-22	7A-56	3R-20	FA-10	
BAC10	7C-30	5B-24	7A-60	3R-22	FA-11	
BAC11	7C-28	5B-30	7A-58	3R-24	FA-12	
BAC12	7C-22	5B-32	7A-46	3R-26	FA-13	
BAC13	7C-20	5B-46	7A-48	3R-28	FA-14	
BAC14	7C-18	5A-14	7A-50	3R-30	FA-15	
BAC15	7C-16	5A-16	7A-52	3R-32	FA-16	
BAC16	7C-10	5A-18	7A-20	3R-34	FA-17	

BAC17	7C-08	5A-20	3R-36	FA-18				
BAC18	7C-06	5A-22	3R-38	FA-19				
BAC19	7C-04	5A-24	3R-42	FA-20				
BIR3	3R-44	7A-44	5B-76	7C-66				
BIR4	3R-46	7A-42	5B-50	7C-74				
BIR5	3R-48	7A-34	5B-52	7C-72				
BIR6	3R-50	7A-36	5B-60	7C-62				
BIR7	3R-52	7A-32	5A-04	7C-60				
BL	5A-42	3R-54	FA-40					
BSEL	9B-06	2D-27						
CAL	5C-16	GND						
CIN	1C-3	4B-56						
CMAS-	2B-36	7B-56						
CM01	5C-52							
COMPLITE-		7A-55	1D-56					
CONVCOMND-		7B-26	9B-04					
CONT-	3C-10	7B-45						
COUT	1A-72	4A-68	3B-42					
CRAS-	2B-38	3C-48						
CRT	3C-4	1D-66						
CRTREAL	3C-1	1D-68						
DIGIN-	1D-72							
DIGOUT-	1D-74							
DISABLE-		3C-24	7B-46					
DISVD-	1D-44							
DP	2A-49	3B-22	4C-24					
DPASEL	7A-63	2D-23						
DPBSEL	7A-61	2D-25						
DPLITE	2D-33	4C-28	FA-46					
DPSHIF-	4A-14	3B-16						
DPSTOPLITE		2D-35	4C-30	FA-47				
DUAL	7B-32	9A-25						
DWELL	3C-7	7A-18						
DWELLCLK		7C-48	9A-60					
ENABTTY	11B-60	TTY-4						
FDATA-	11B-42	TTY-2						
GDB	1A-71	3C-68						
GO	3C-2	5A-56						
HDP	3A-60	4B-5						
HOLD	3A-62	4C-34						
HP	3A-70	4A-49						
HQGND	5A-60-62-64-66	PWR-11-14						
ICO	3A-66	4A-10	7A-30	5B-64	7C-64	2D-53		
IMHER-	2E-52	2F-52	2G-52	2A-10	1R-52			
INTENSIFY		5A-65	5C-44					
IOP	3R-56	4A-17	11B-56	FB-07				
IOP1	3R-58	4A-43	3B-74	7A-10	11C-06	7C-70	5C-26	2D-55
IOP2	3R-60	4A-45	3B-60	7A-12	7B-1	11C-68	5C-32	2D-45
IOP3	3R-62	4A-47	3B-70	7A-04	11C-64	7C-58	5C-56	2D-47
IOP1	3B-74	4A-43	FB-40					
IOP2	3B-60	4A-45						
IOP3	3B-70	4A-47	FB-44					
IPA	7A-59	9A-23						
IPC	2C-49	4B-63	4A-34	3B-64				
IR0	2C-15	3B-24	4A-70	FB-21				
IR0-	2C-30							

IR1	2C-11	3B-28	4A-66	FB-22		
IR1-	2C-20					
IR2	2C-13	3B-26	4A-62	FB-24		
IR2-	2C-22					
IR3	2D-41	2C-9	3B-30	11B-46	4A-60	FB-11
IR3-	2C-18	5B-74	11B-44			
IR4	2D-57	2C-7	4C-74	3B-4	4A-46	FB-02
IR4-	2C-16	3B-6	5B-72	11B-48		
IR5	2C-3	3B-14	11B-50	4A-52	FB-01	
IR5-	2D-59	2C-8	5B-70	4A-44		
IR6	2C-5	4A-26	3B-56	FB-05		
IR6-	2D-61	2C-10	5B-68	11B-52	4A-20	
IR7	2C-1	4A-18	3B-54	FB-06		
IR7-	2D-63	2C-2	11B-54	5A-2	4A-22	
IR8	2B-17	4A-12	FB-25			
IR8-	2B-14	4A-19	3B-50			
IR9	2B-15	4A-16	3B-48	FB-28		
IR9-	2C-76	4A-31				
IR10	2B-6	4A-32	FB-31			
IR10-	2B-4	4B-60				
IR11	2C-74	4B-73	3B-46	FB-32		
IR11-	2C-72	4B-62	4A-28			
IR12	2C-64	4A-24	FB-35			
IR12-	2C-70	4B-64				
IR13	2B-3	4B-72	FB-36			
IR13-	2C-58	4B-66				
IR14	2C-62	4B-74	4A-72	FB-39		
IR14-	2C-60	4B-68				
IR15	2B-1	3B-20	4B-76	FB-43		
IR15-	2C-52	3B-18	4B-70			
IR16	4B-69	FB-47				
IR17	4B-71	FA-37				
IR18	4B-11	FA-38				
IR19	4A-30	4B-67	FA-39			
IR19-	3B-44	4B-9				
ISAC19-	1A-64	4A-4				
IZ	5C-58					
KA	9A-43	2D-11				
KB	9A-59	2D-3				
L	4A-54	5A-44				
LAC	1A-74	4B-48	3B-1			
LCAC	1A-60	4B-50				
LCMB-	1C-24	4B-52				
LDMX-	7B-76	9A-21				
LLSH	1C-4	3C-72				
LMB-	1B-66	4B-54				
LONE	3A-64	1C-1				
LP0	1C-20	FA-21				
LP1	1C-21	FA-22				
LP2	1C-28	FA-23				
LP3	1C-42	FA-24				
LP4	1C-58	FA-25				
LP5	1C-60	FA-26				
LP6	1B-4	FA-27				
LP7	1B-14	FA-28				
LP8	1B-20	FA-29				

LP9	1B-32	FA-30					
LP10	1B-46	FA-31					
LP11	1B-60	FA-32					
LP12	1B-70	FA-33					
LP13	1A-4	FA-34					
LP14	1A-20	FA-35					
LP15	1A-10	FA-36					
LPC	1C-6	4B-57					
LREAD	2E-19	3E-17	6E-17				
LREAD	2F-19	3F-17	6F-17				
LREAD	2G-19	3G-17	6G-17				
LSH	1A-75	3C-70					
LWRITE	2E-33	3E-15	6E-15				
LWRITE	2F-33	3F-15	6F-15				
LWRITE	2G-33	3G-15	6G-15				
LSTROBE	1E-56	2E-23					
LSTROBE	1F-56	2F-23					
LSTROBE	1G-56	2G-23					
M-	3C-9	7B-74	9A-17				
MA0-	2C-65	3E-3	3F-3	3G-3	IR-47		
MA1-	2C-63	3E-5	3F-5	3G-5	IR-49		
MA2-	2C-47	3E-7	3F-7	3G-7	IR-51		
MA3-	2C-37	6E-3	6F-3	6G-3	IR-53		
MA4-	2C-61	6E-5	6F-5	6G-5	IR-55		
MA5-	2C-59	6E-7	6F-7	6G-7	IR-57		
MA6-	2C-35	6E-9	6F-9	6G-9	IR-59		
MA7-	2C-31	6E-11	6F-11	6G-11	IR-61		
MA8-	2B-55	6E-13	6F-13	6G-13	IR-63		
MA9-	2B-53	3E-9	3F-9	3G-9	IR-65		
MA10-	2B-45	3E-11	3F-11	3G-11	IR-67		
MA11-	2B-29	3E-13	3F-13	3G-13	IR-69		
MACRY	2A-32						
MASOF	2B-62	7B-70					
MAS1	2A-47	2D-42					
MAS2	2B-54	2D-38					
MAS4	2A-45	2D-48					
MAS8	2B-56	2D-32					
MB0	2C-32	1C-12	2E-6	2F-6	2G-6	IR-6	
MB1	2C-26	1C-22	2E-8	2F-8	2G-8	IR-8	
MB2	2C-28	1C-30	2E-10	2F-10	2G-10	IR-10	
MB3	2C-24	1C-52	2E-12	2F-12	2G-12	IR-12	
MB4	2C-14	1C-64	2E-14	2F-14	2G-14	IR-14	
MB5	2C-6	1C-76	2E-16	2F-16	2G-16	IR-16	
MB6	1B-6	2C-12	2E-18	2F-18	2G-18	IR-18	
MB7	1B-16	2C-4	2E-20	2F-20	2G-20	IR-20	
MB8	1B-22	2B-16	2E-22	2F-22	2G-22	IR-22	
MB9	2B-10	1B-34	2E-24	2F-24	2G-24	IR-24	
MB10	2B-12	1B-48	2E-56	2F-56	2G-56	IR-26	
MB11	2B-8	1B-62	2E-58	2F-58	2G-58	IR-28	
MB12	1B-72	2C-68	2E-60	2F-60	2G-60	IR-30	
MB13	1A-6	2C-56	2E-62	2F-62	2G-62	IR-32	
MB14	1A-12	2C-66	2E-64	2F-64	2G-64	IR-34	
MB15	7A-67	1A-22	2C-54	2E-66	2F-66	2G-66	IR-36
MB16	7A-69	1A-34	4B-32	2E-68	2F-68	2G-68	IR-38
MB17	7A-71	1A-46	4B-36	2E-70	2F-70	2G-70	IR-56
MB18	7A-73	1A-56	4B-30	2E-72	2F-72	2G-72	IR-58

MB19	7A-75	1A-70	4B-38	2E-74	2F-74	2G-74	IR-60
MLITE	3C-56	1D-58					
NXMLIT	2A-6	1D-60					
P6	3B-52	4C-32					
PC0	1C-14	2C-57					
PC1	1C-16	2C-55					
PC2	1C-34	2C-45					
PC3	1C-36	2C-43					
PC4	1C-68	2C-53					
PC5	1C-70	2C-51					
PC6	1B-8	2C-33					
PC7	1B-10	2C-29					
PC8	1B-26	2B-59					
PC9	1B-28	2B-51					
PC10	1B-52	2B-35					
PC11	1B-54	2B-33					
PC12	1B-74	2B-49					
PC13	1B-76	2B-47					
PC14	1A-14	2B-27					
PC15	1A-16	2B-25					
PP1-	9B-57	7B-69					
PSTART-	2D-67	4C-72	3R-67	FA-45			
RAC-	1C-54	4A-6					
RAC19-	1A-62	4A-8					
RASH	1A-73	3C-76					
RASOF	3C-6	2B-26					
RAS1	2B-52	2D-71					
RAS2	2B-58	2D-74					
RAS4	2B-50	2D-50					
RAS8	2B-60	2D-72					
REALPLOT		3C-5	1D-52				
READ	2E-54	2F-54	2G-54	2A-14	4B-16	IR-54	
REAR1	5A-43						
REAR2	5A-45						
REAR3	5A-47						
REAR4	5A-59						
REAR5	5A-61						
REAR6	5A-67						
REAR7	5A-69						
RECV DATA		11B-74	RS-02				
RECV DATA1		11B-72					
RECORD-	7B-72	9A-74					
REMADDSUB		7A-65	9A-64				
REMSTOP	7A-24	9A-62					
RLSH	1A-76	3C-74					
RMBL-	2A-18	1B-38	4B-3	3C-16			
RMBU-	1A-36	4B-1	3C-14				
RPC-	2B-23	2C-27	4C-17				
RS FLG OUT		11B-66					
RS FLG IN		11B-64					
RS JMP	RS-06	RS-08	RS-20				
RSH	1C-2	3B-2					
RXD-	3C-58	5C-10	7B-44				
SAC0-	3R-1	3A-16	9B-13	11B-2	1C-5	2D-73	FB-50
SAC1-	3R-3	3A-18	9B-9	11B-1	1C-15	2D-76	FB-49
SAC2-	3R-5	3A-20	9B-11	11B-3	1C-27	2D-54	FB-45

SAC3-	3R-7	3A-22	9B-5	11B-4	1C-43	2D-70	FB-38
SAC4-	3R-9	3A-24	9B-7	11B-8	1C-55	2D-62	FB-46
SAC5-	3R-11	3A-26	9B-1	11B-5	1C-69	2D-68	FB-42
SAC6-	3R-13	3A-28	9B-3	11B-7	1C-75	2D-60	FB-41
SAC7-	3R-15	3A-30	9B-15	11B-10	1B-3	2D-52	FB-34
SAC8-	3R-17	3A-32	9B-17	1B-13	2D-44	FB-37	
SAC9-	3R-19	3A-34	9B-19	1B-29	2D-36	FB-33	
SAC10-	3R-21	3A-36	9B-21	1B-41	2D-46	FB-26	
SAC11-	3R-23	3A-38	9B-23	1B-57	2D-34	FB-30	
SAC12-	3R-25	3A-42	9B-25	1B-69	2D-26	FB-27	
SAC13-	3R-27	1A-1	3A-44	9B-27	2D-28	FB-29	
SAC14-	3R-29	1A-05	3A-46	9B-29	2D-20	FB-20	
SAC15-	3R-31	1A-15	3A-48	9B-31	2D-18	FB-23	
SAC16-	3R-33	1A-27	3A-50	9B-33	2D-04	FB-19	
SAC17-	3R-35	1A-43	3A-52	9B-35	2D-12	FB-15	
SAC18-	3R-37	1A-55	3A-54	9B-37	2D-10	FB-12	
SAC19-	3R-41	3A-56	4A-27	9B-41	2D-02	FB-16	
SELECT	11B-62	TTY-1					
SEL0	2A-60	2E-50					
SEL1	2A-62	1R-62					
SEL10	2A-59	2G-50					
SEL11	2A-61	2F-50					
SEL12	2A-63	1R-64					
SEL13	2A-65	1R-66					
SEL14	2A-67	1R-68					
SEL15	2A-69	1R-70					
SEL16	2A-71	1R-72					
SEL17	2A-73	1R-74					
SHIFT-	3C-34	7B-34					
SKIP-	11C-58	7A-08	4A-29	3R-66	FB-10		
SMB0-	1C-7	1E-2	1F-2	1G-2	IR-3		
SMB1-	1C-23	1E-4	1F-4	1G-4	IR-5		
SMB2-	1C-35	1E-6	1F-6	1G-6	IR-7		
SMB3-	1C-49	1E-8	1F-8	1G-8	IR-9		
SMB4-	1C-63	1E-20	1F-20	1G-20	IR-11		
SMB5-	1C-73	1E-22	1F-22	1G-22	IR-13		
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