



LBI-38941

Mobile Communications

**DELAY UNIT
SHELF ASSEMBLY
19D902531G2, 5**

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DIGITAL DELAY MODULE LBI-38474

Maintenance Manual



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SPECIFICATIONS

Dimensions	267 mm X 426 mm
Input Voltage	+5 Vdc
Number Of Cards Per Shelf	20
Backplane Connectors:	
J1-J20	64 Pins
P1-P20	50 Pin Header Type
TB1	Molex,12 Pin

DIGITAL DELAY UNIT SHELF
ASSEMBLY
19D902531G2,5

OPTION CP5F/CP5P

The Delay Unit Shelf Assembly is provided in two groups to accommodate 10 site, 20 channel configuration or a 10 site, 24 channel configuration. The card cage housing the delay modules is six rack units high and accommodates up to 15 delay modules. The table below identifies the option and group numbers of the shelf configuration.

OPTION	PART NUMBER	CONFIGURATION
CP5F	19D902531G2	10 Site, 20 Channel (One 20 Channel Backplane)
CP5P	19D902531G5	10 Site, 24 Channel (Two 20 Channel Backplanes)

The backplane provides jacks, printed wire patterns, and wire-wrap connectors to interface the digital modules used in the EDACS Simulcast System. Each module plugs into two 64-pin jacks on the backplane. A 12-pin Molex terminal block is used to provide connections for the +5 Vdc power source.

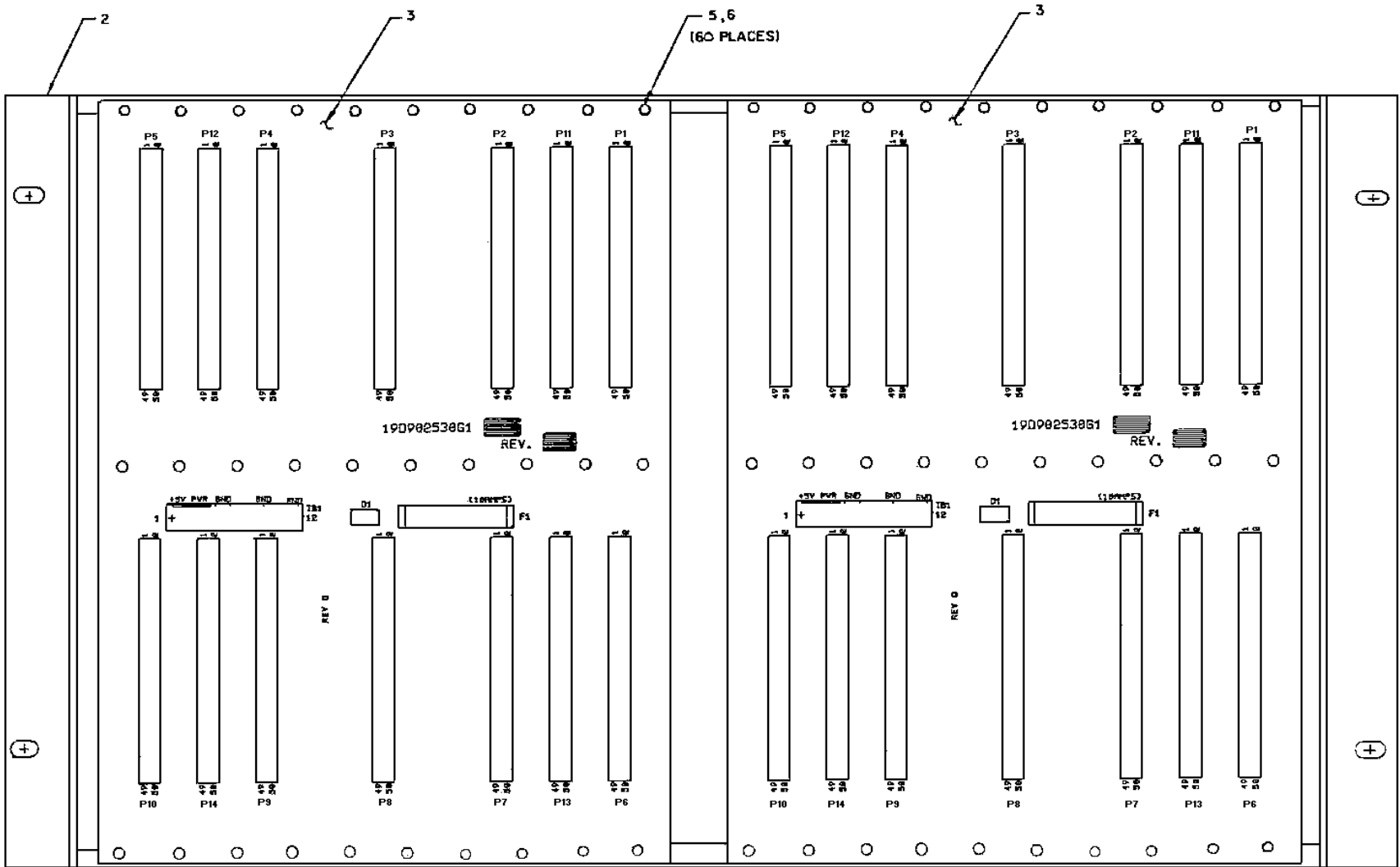
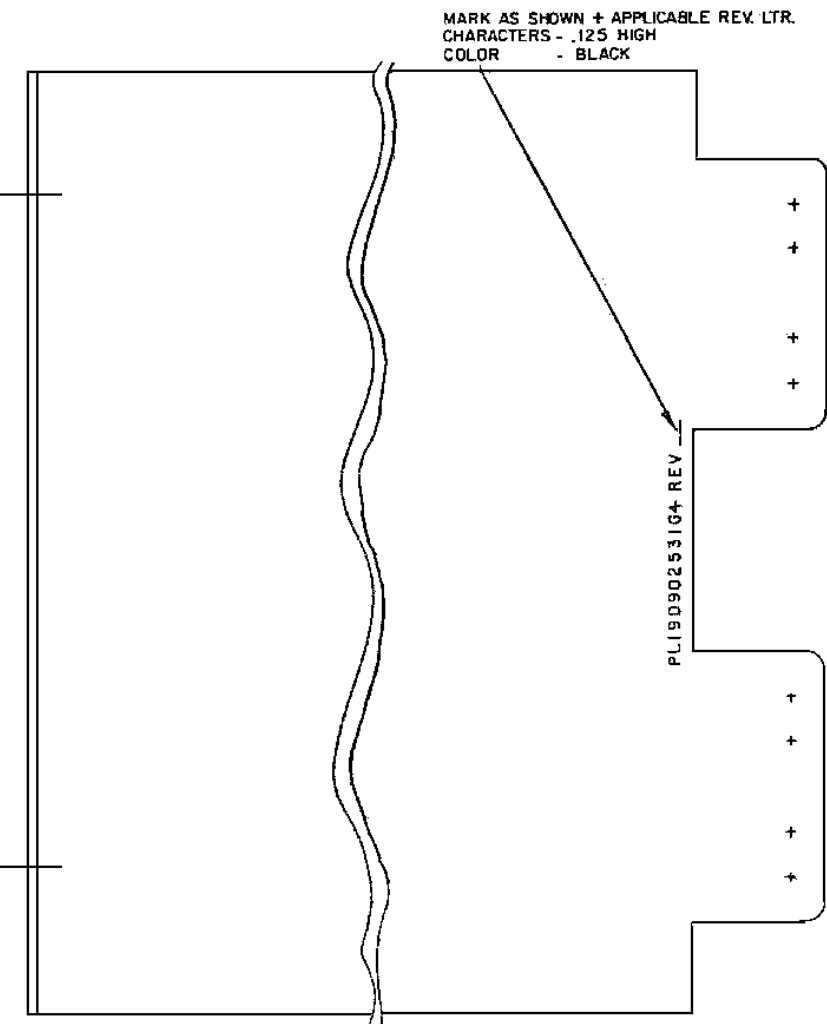
The + 5 volt source provided to the digital delay assembly is fused with a 10 Ampere fuse. In addition, overvoltage/spike suppression protection is provided by a zener diode.

CIRCUIT DESCRIPTION

The digital delay assembly is required only at the Control Point Site

Delayed data is provided to the Transmit Sites from the Control Point.

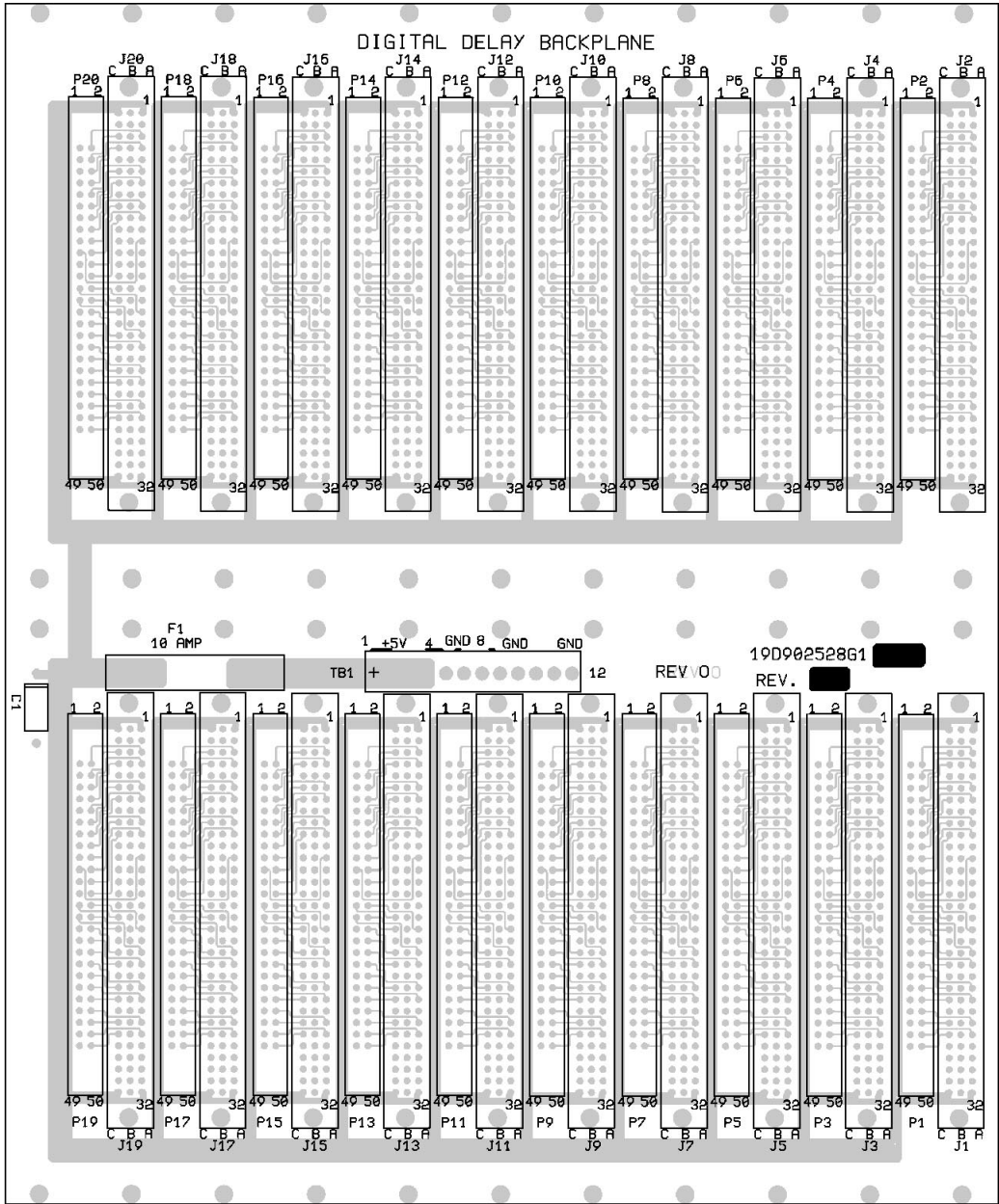
The digital delay module performs the 9.6 data, 300 Hz timing tone and clock delay for two transmit sites. Each transmit site receives the digital delay signals from one-half of a digital delay module. The number of digital delay modules in a delay unit assembly is equal to one-half the number of transmit sites in the simulcast system for systems equipped with 10 channels or less. For systems with 11-20 channels the number of modules equal the number of Transmit Sites. For systems with 21-25 channels the number of modules equal 1.5 times the number of Transmit Sites (refer to maintenance manual (LBI-38474).



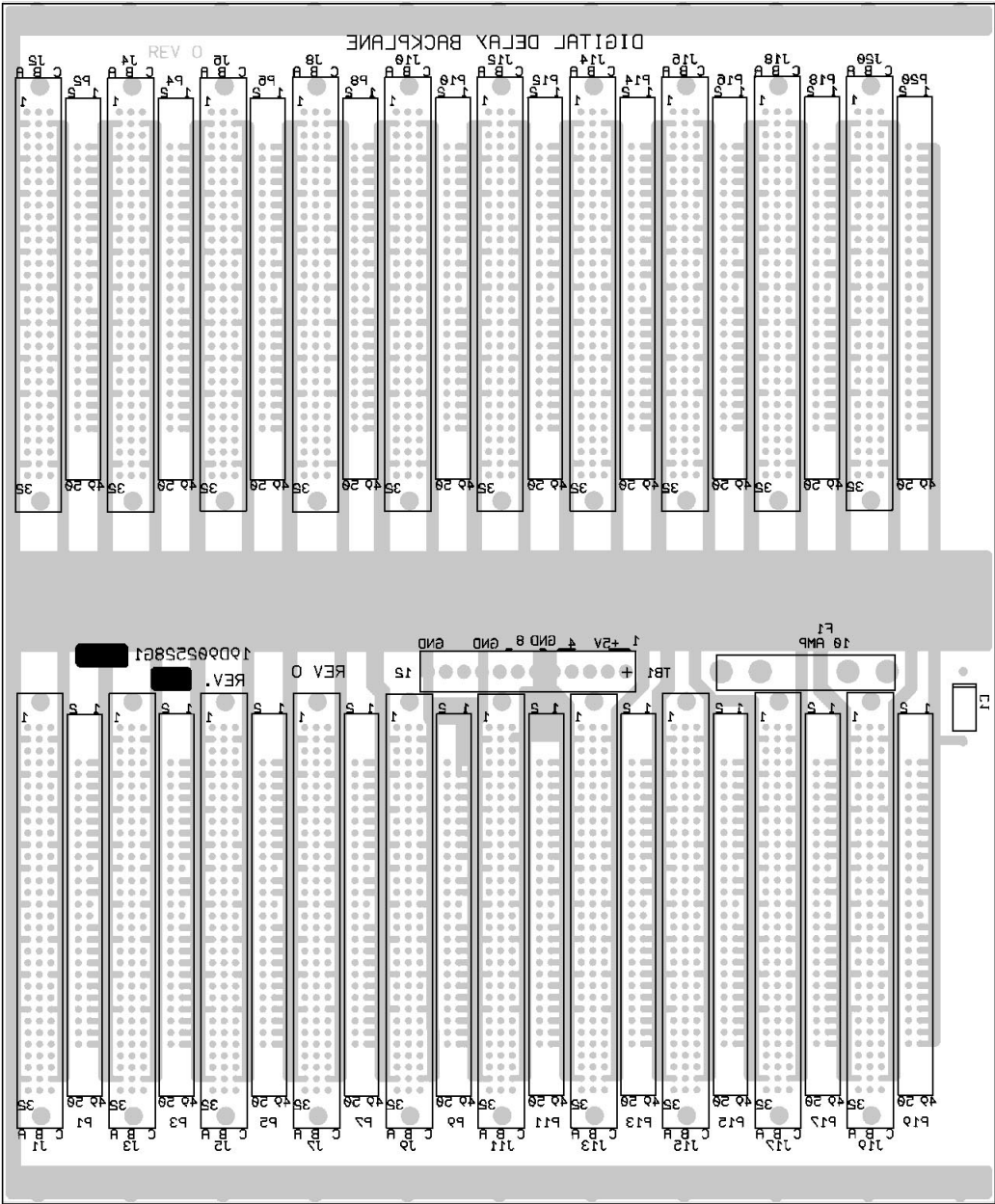
DIGITAL DELAY SHELF
19D902531G2, 5

(19D902531, Sh. 2, Rev. 3)

COMPONENT SIDE

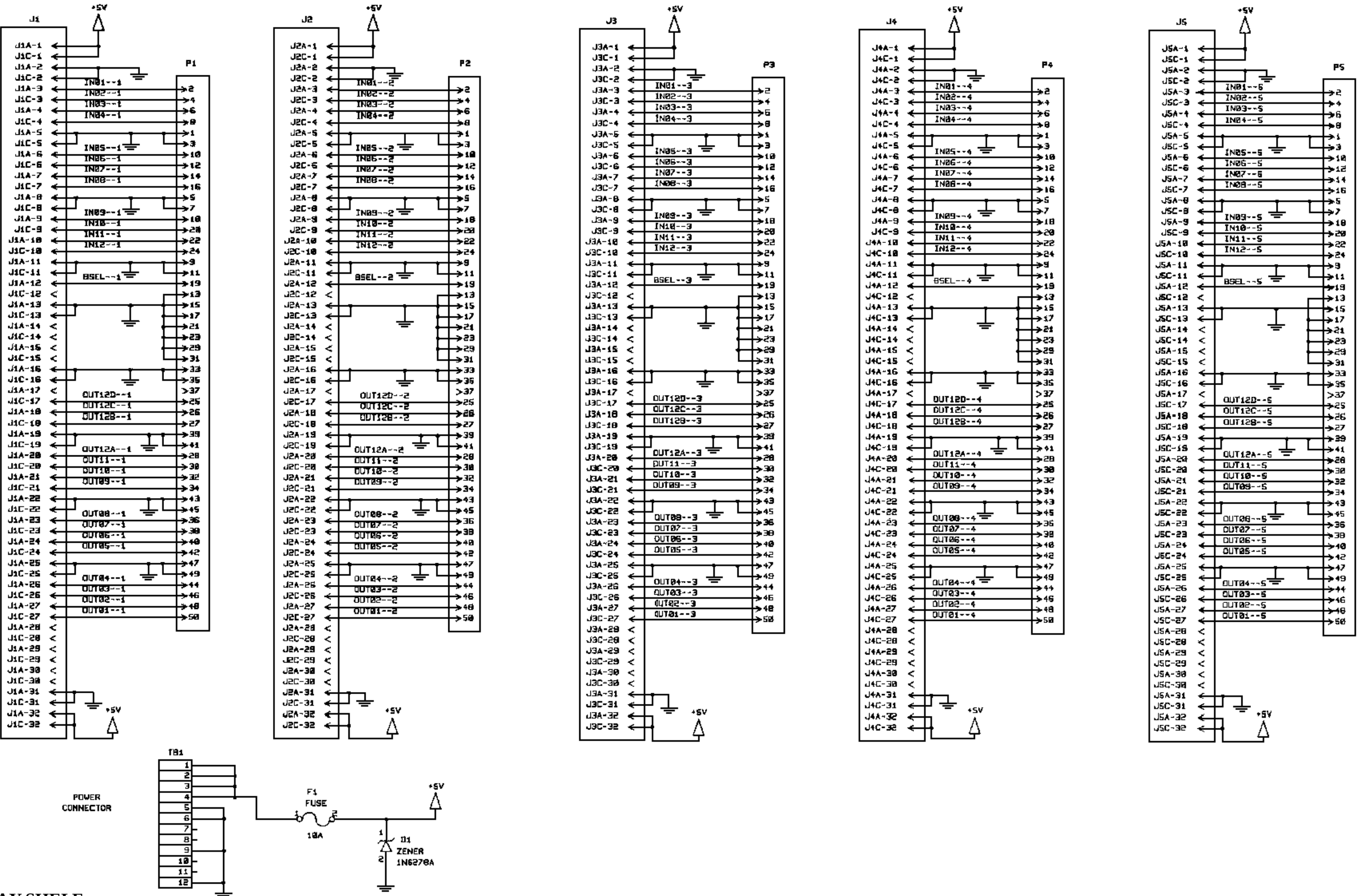


SOLDER SIDE



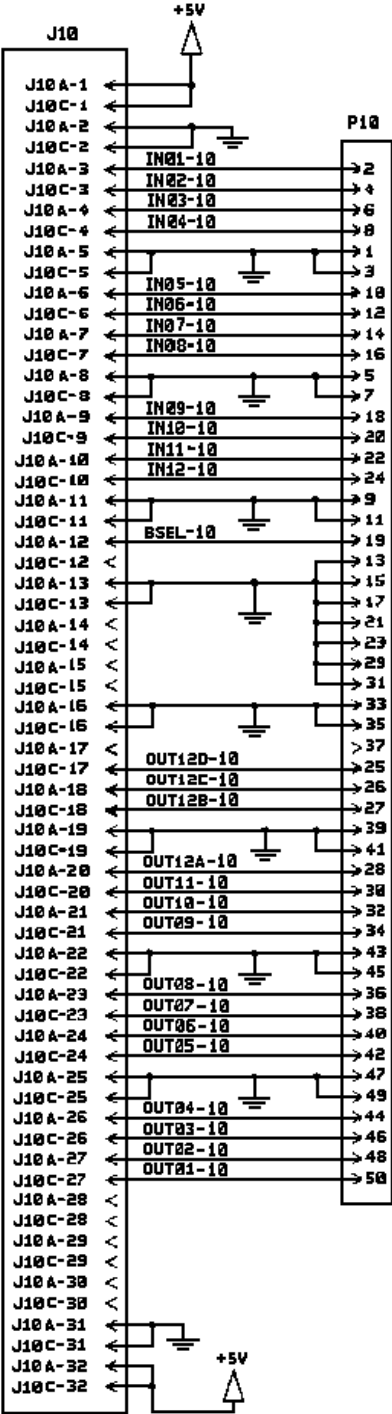
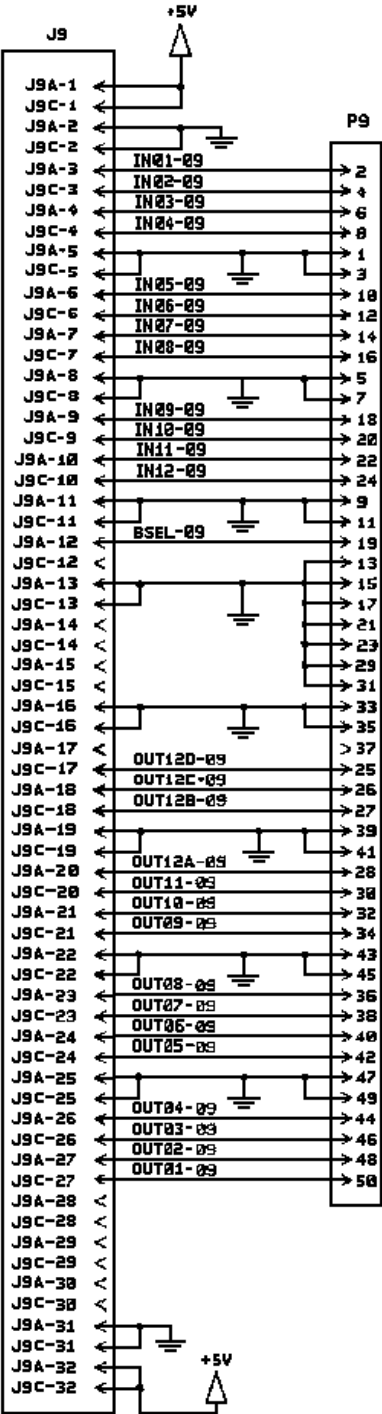
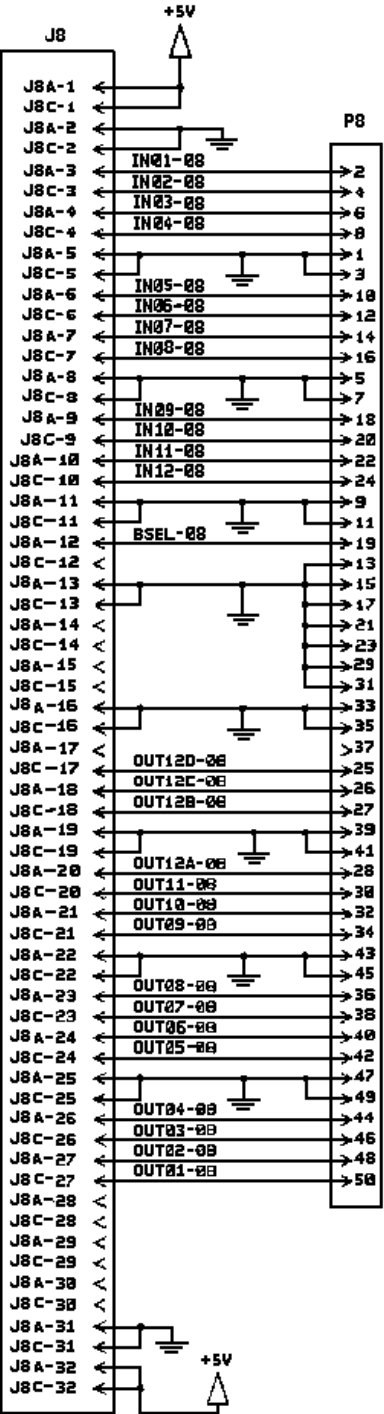
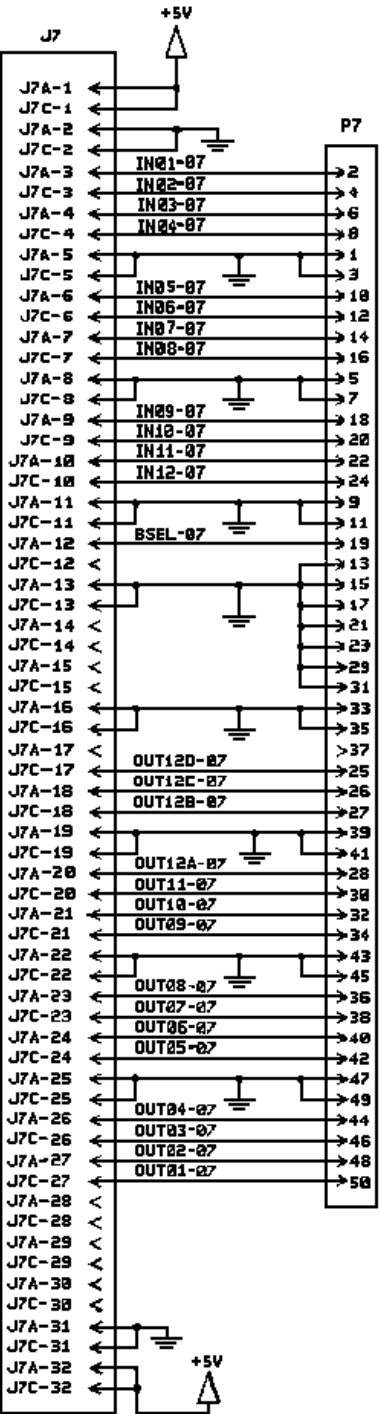
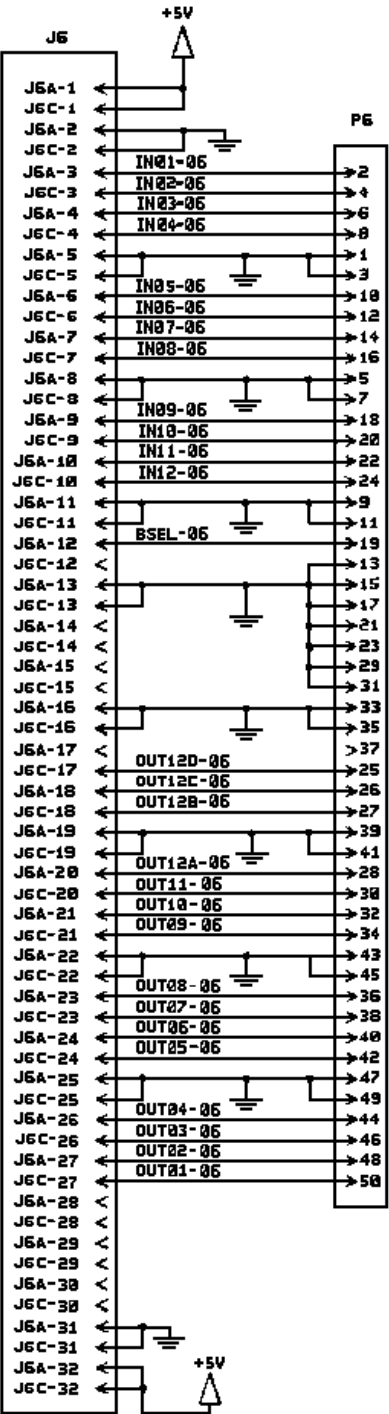
DIGITAL DELAY SHELF BACKPLANE
19D902528G1

(19D902528, Sh. 1, Rev. 3)



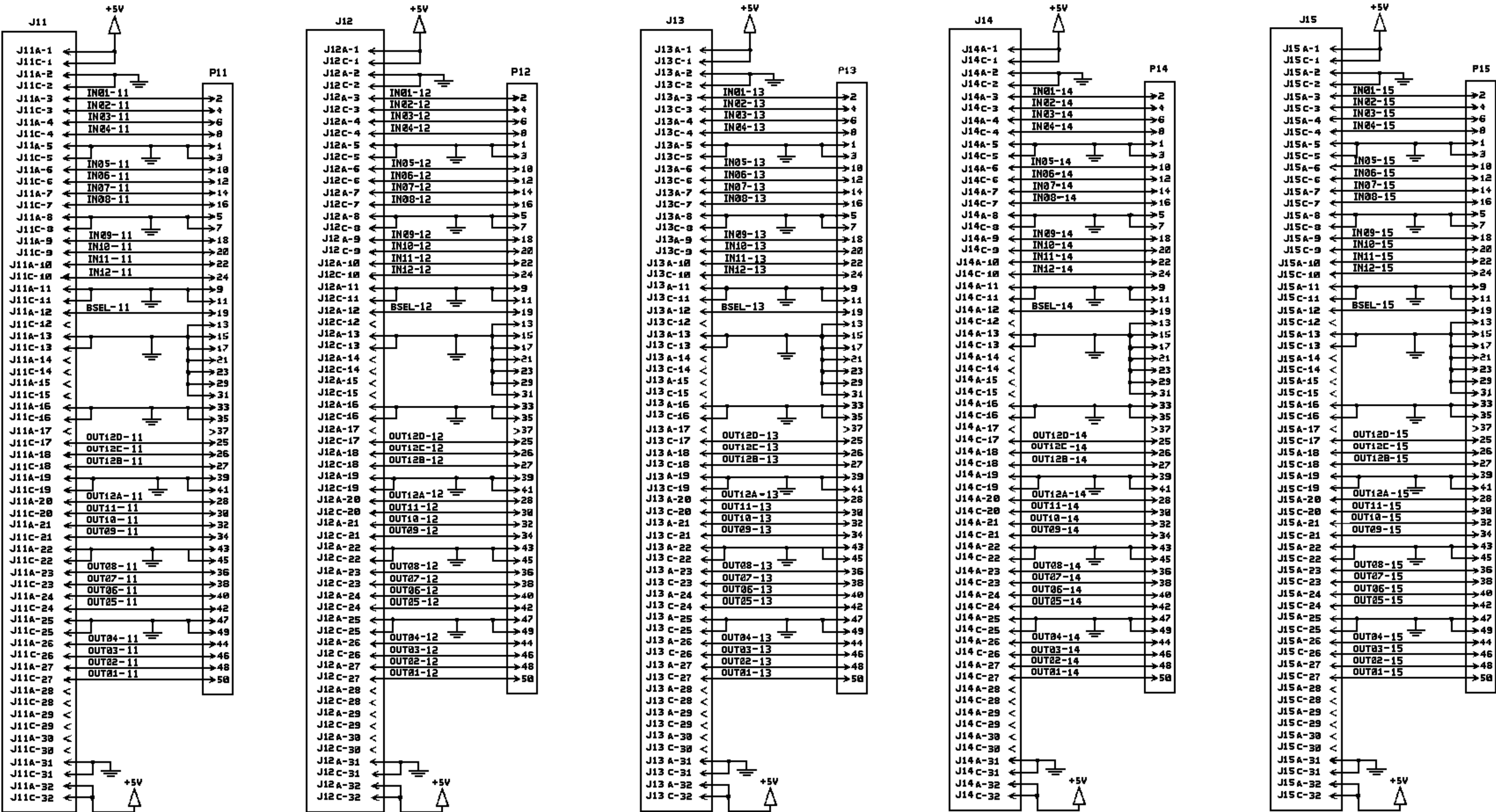
DIGITAL DELAY SHELF
19D902528G1

(19C851930, Sh. 1, Rev. 1)



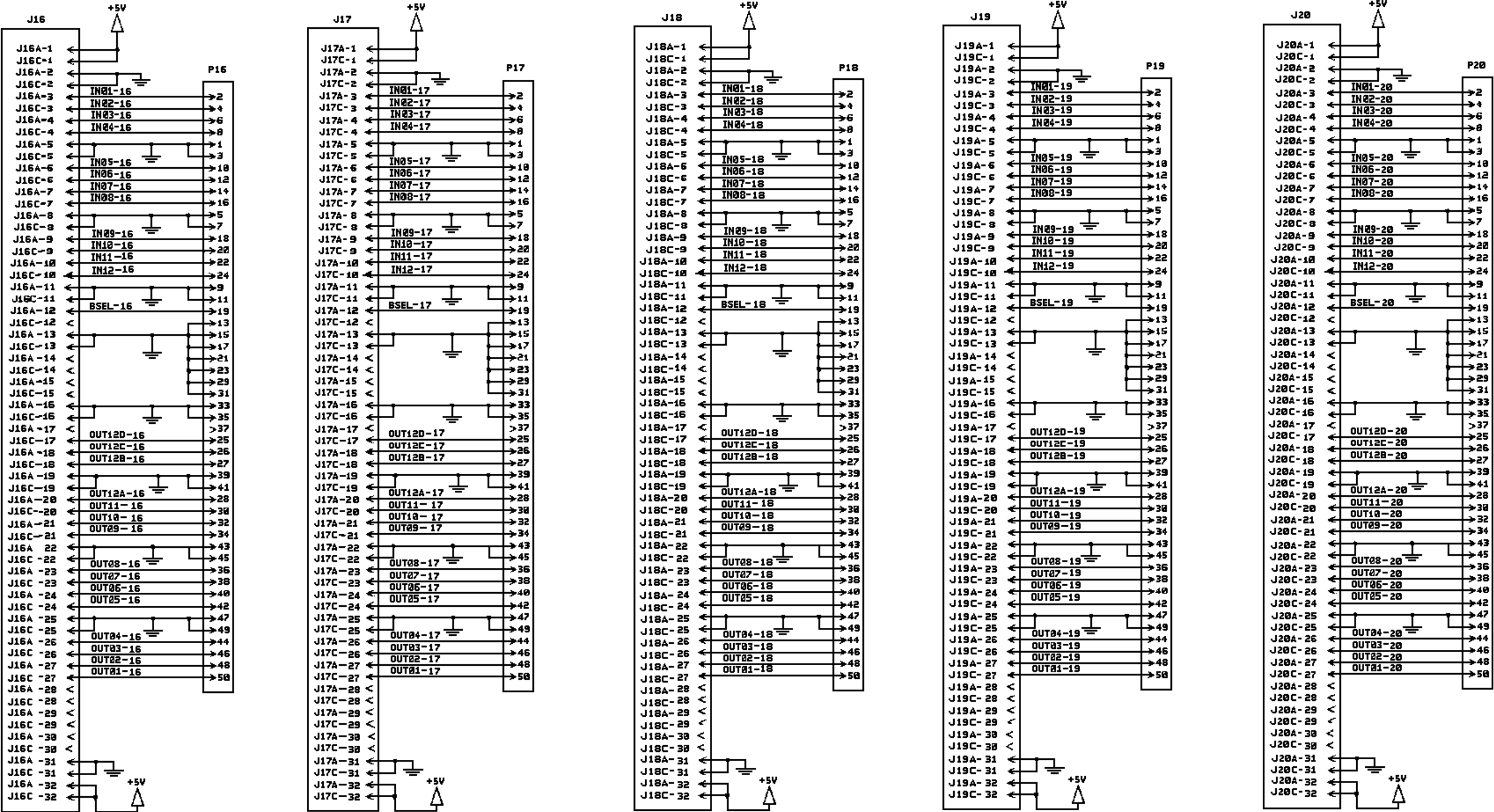
DIGITAL DELAY SHELF
19D902528G1

(19C851930, Sh. 2, Rev. 1)



DIGITAL DELAY SHELF
19D902528G1

(19C851930, Sh. 3, Rev. 1)



DIGITAL DELAY SHELF
19D902528G1

(19C851930, Sh. 4, Rev. 1)

DIGITAL DELAY SHELF
19D902531G2, 5

SYMBOL	PART NUMBER	DESCRIPTION
	19C337341P1	VME Shelf.
	19A700031P305	Screw: M2.5.
	19A700032P3	Lockwasher, tooth, steel, metric: 2.5.
		DIGITAL DELAY BACKPLANE 19D902528P1
		----- DIODES -----
D1	19A703588P3	Diode,zener: 17.1 PIV; sim to 1N6278A..
F1	LTTLF314010	10 Amp, fast blow.
		-----CONNECTORS-----
J1 thru J20	AMP535032-4	Connector, 64 pin: printed wire.
		----- PLUGS -----
P1 thru P20	AMPL-499582-0	Connector, 50 pin header: printed wire.
		-----TERMINALS-----
TB1	19A116659P58	Terminal Board.
		----- MISCELLANEOUS -----
		Fuse clip, BUSSMAN 1A1119-05.
	AMP102320-1	Latch.

WIRING LIST

DIGITAL DELAY BACKPLANE

<u>FROM</u>	<u>TO</u>	<u>FUNCTION</u>	<u>PUNCH BLOCK</u>
D01 - 01	#	+5V	
D01 - 02	*	GND	
F01 - 01	F01 - 02	+5VIN	
	TB1 - 01		
	TB1 - 02		
	TB1 - 03		
	TB1 - 04		
F01 - 02	F01 - 01	+5VIN	
	TB1 - 01		
	TB1 - 02		
	TB1 - 03		
	TB1 - 04		
F01 - 03	#	+5V	
F01 - 04	#	+5V	
J01 - 01A	#	+5V	
J01 - 01C	#	+5V	
J01 - 02A	*	GND	
J01 - 02C	*	GND	
J01 - 03A	P01 - 02	IN01-_1	
J01 - 03C	P01 - 04	IN02-_1	
J01 - 04A	P01 - 06	IN03-_1	
J01 - 04C	P01 - 08	IN04-_1	
J01 - 05A	*	GND	
J01 - 05C	*	GND	
J01 - 06A	P01 - 10	IN05-_1	
J01 - 06C	P01 - 12	IN06-_1	
J01 - 07A	P01 - 14	IN07-_1	
J01 - 07C	P01 - 16	IN08-_1	
J01 - 08A	*	GND	
J01 - 08C	*	GND	
J01 - 09A	P01 - 18	IN09-_1	
J01 - 09C	P01 - 20	IN10-_1	
J01 - 10A	P01 - 22	IN11-_1	
J01 - 10C	P01 - 24	IN12-_1	
J01 - 11A	*	GND	
J01 - 11C	*	GND	
J01 - 12A	P01 - 19	BSEL-_1	
J01 - 13A	*	GND	
J01 - 13C	*	GND	
J01 - 16A	*	GND	
J01 - 16C	*	GND	
J01 - 17C	P01 - 25	OUT12D-_1	
J01 - 18A	P01 - 26	OUT12C-_1	
J01 - 18C	P01 - 27	OUT12B-_1	
J01 - 19A	*	GND	
J01 - 19C	*	GND	

Continued

WIRING LIST

NOTES

General Notes:

1. All "*" points are tied to each other (GND).
2. All "#" points are tied to each other (+5V).
3. For all "Functions" with _1 thru _5, the _ can stand for a 0 or a 2 depending on which Digital Delay Backplane you are referring to. The first unit covers channels 1 thru 20, with 21 thru 25 being covered by the second unit if needed.

CAUTION

The **FUNCTION** "n/c" means that signal is not used in this application, but it does **NOT** mean that no signal is present.

Continued

Continued

DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
J01 - 20A	P01 - 28	OUT12A-_1	
J01 - 20C	P01 - 30	OUT11-_1	
J01 - 21A	P01 - 32	OUT10-_1	
J01 - 21C	P01 - 34	OUT09-_1	
J01 - 22A	*	GND	
J01 - 22C	*	GND	
J01 - 23A	P01 - 36	OUT08-_1	
J01 - 23C	P01 - 38	OUT07-_1	
J01 - 24A	P01 - 40	OUT06-_1	
J01 - 24C	P01 - 42	OUT05-_1	
J01 - 25A	*	GND	
J01 - 25C	*	GND	
J01 - 26A	P01 - 44	OUT04-_1	
J01 - 26C	P01 - 46	OUT03-_1	
J01 - 27A	P01 - 48	OUT02-_1	
J01 - 27C	P01 - 50	OUT01-_1	
J01 - 31A	*	GND	
J01 - 31C	*	GND	
J01 - 32A	#	+5V	
J01 - 32C	#	+5V	
J02 - 01A	#	+5V	
J02 - 01C	#	+5V	
J02 - 02A	*	GND	
J02 - 02C	*	GND	
J02 - 03A	P02 - 02	IN01-_2	
J02 - 03C	P02 - 04	IN02-_2	
J02 - 04A	P02 - 06	IN03-_2	
J02 - 04C	P02 - 08	IN04-_2	
J02 - 05A	*	GND	
J02 - 05C	*	GND	
J02 - 06A	P02 - 10	IN05-_2	
J02 - 06C	P02 - 12	IN06-_2	
J02 - 07A	P02 - 14	IN07-_2	
J02 - 07C	P02 - 16	IN08-_2	
J02 - 08A	*	GND	
J02 - 08C	*	GND	
J02 - 09A	P02 - 18	IN09-_2	
J02 - 09C	P02 - 20	IN10-_2	
J02 - 10A	P02 - 22	IN11-_2	
J02 - 10C	P02 - 24	IN12-_2	
J02 - 11A	*	GND	
J02 - 11C	*	GND	
J02 - 12A	P02 - 19	BSEL-_2	
J02 - 13A	*	GND	
J02 - 13C	*	GND	
J02 - 16A	*	GND	

Continued

DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
J02 - 16C	*	GND	
J02 - 17C	P02 - 25	OUT12D-_2	
J02 - 18A	P02 - 26	OUT12C-_2	
J02 - 18C	P02 - 27	OUT12B-_2	
J02 - 19A	*	GND	
J02 - 19C	*	GND	
J02 - 20A	P02 - 28	OUT12A-_2	
J02 - 20C	P02 - 30	OUT11-_2	
J02 - 21A	P02 - 32	OUT10-_2	
J02 - 21C	P02 - 34	OUT09-_2	
J02 - 22A	*	GND	
J02 - 22C	*	GND	
J02 - 23A	P02 - 36	OUT08-_2	
J02 - 23C	P02 - 38	OUT07-_2	
J02 - 24A	P02 - 40	OUT06-_2	
J02 - 24C	P02 - 42	OUT05-_2	
J02 - 25A	*	GND	
J02 - 25C	*	GND	
J02 - 26A	P02 - 44	OUT04-_2	
J02 - 26C	P02 - 46	OUT03-_2	
J02 - 27A	P02 - 48	OUT02-_2	
J02 - 27C	P02 - 50	OUT01-_2	
J02 - 31A	*	GND	
J02 - 31C	*	GND	
J02 - 32A	#	+5V	
J02 - 32C	#	+5V	
J03 - 01A	#	+5V	
J03 - 01C	#	+5V	
J03 - 02A	*	GND	
J03 - 02C	*	GND	
J03 - 03A	P03 - 02	IN01-_3	
J03 - 03C	P03 - 04	IN02-_3	
J03 - 04A	P03 - 06	IN03-_3	
J03 - 04C	P03 - 08	IN04-_3	
J03 - 05A	*	GND	
J03 - 05C	*	GND	
J03 - 06A	P03 - 10	IN05-_3	
J03 - 06C	P03 - 12	IN06-_3	
J03 - 07A	P03 - 14	IN07-_3	
J03 - 07C	P03 - 16	IN08-_3	
J03 - 08A	*	GND	
J03 - 08C	*	GND	
J03 - 09A	P03 - 18	IN09-_3	
J03 - 09C	P03 - 20	IN10-_3	
J03 - 10A	P03 - 22	IN11-_3	
J03 - 10C	P03 - 24	IN12-_3	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
J03 - 11A	*	GND	
J03 - 11C	*	GND	
J03 - 12A	P03 - 19	BSEL-_3	
J03 - 13A	*	GND	
J03 - 13C	*	GND	
J03 - 16A	*	GND	
J03 - 16C	*	GND	
J03 - 17C	P03 - 25	OUT12D-_3	
J03 - 18A	P03 - 26	OUT12C-_3	
J03 - 18C	P03 - 27	OUT12B-_3	
J03 - 19A	*	GND	
J03 - 19C	*	GND	
J03 - 20A	P03 - 28	OUT12A-_3	
J03 - 20C	P03 - 30	OUT11-_3	
J03 - 21A	P03 - 32	OUT10-_3	
J03 - 21C	P03 - 34	OUT09-_3	
J03 - 22A	*	GND	
J03 - 22C	*	GND	
J03 - 23A	P03 - 36	OUT08-_3	
J03 - 23C	P03 - 38	OUT07-_3	
J03 - 24A	P03 - 40	OUT06-_3	
J03 - 24C	P03 - 42	OUT05-_3	
J03 - 25A	*	GND	
J03 - 25C	*	GND	
J03 - 26A	P03 - 44	OUT04-_3	
J03 - 26C	P03 - 46	OUT03-_3	
J03 - 27A	P03 - 48	OUT02-_3	
J03 - 27C	P03 - 50	OUT01-_3	
J03 - 31A	*	GND	
J03 - 31C	*	GND	
J03 - 32A	#	+5V	
J03 - 32C	#	+5V	
J04 - 01A	#	+5V	
J04 - 01C	#	+5V	
J04 - 02A	*	GND	
J04 - 02C	*	GND	
J04 - 03A	P04 - 02	IN01-_4	
J04 - 03C	P04 - 04	IN02-_4	
J04 - 04A	P04 - 06	IN03-_4	
J04 - 04C	P04 - 08	IN04-_4	
J04 - 05A	*	GND	
J04 - 05C	*	GND	
J04 - 06A	P04 - 10	IN05-_4	
J04 - 06C	P04 - 12	IN06-_4	
J04 - 07A	P04 - 14	IN07-_4	
J04 - 07C	P04 - 16	IN08-_4	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
J04 - 08A	*	GND	
J04 - 08C	*	GND	
J04 - 09A	P04 - 18	IN09-_4	
J04 - 09C	P04 - 20	IN10-_4	
J04 - 10A	P04 - 22	IN11-_4	
J04 - 10C	P04 - 24	IN12-_4	
J04 - 11A	*	GND	
J04 - 11C	*	GND	
J04 - 12A	P04 - 19	BSEL-_4	
J04 - 13A	*	GND	
J04 - 13C	*	GND	
J04 - 16A	*	GND	
J04 - 16C	*	GND	
J04 - 17C	P04 - 25	OUT12D-_4	
J04 - 18A	P04 - 26	OUT12C-_4	
J04 - 18C	P04 - 27	OUT12B-_4	
J04 - 19A	*	GND	
J04 - 19C	*	GND	
J04 - 20A	P04 - 28	OUT12A-_4	
J04 - 20C	P04 - 30	OUT11-_4	
J04 - 21A	P04 - 32	OUT10-_4	
J04 - 21C	P04 - 34	OUT09-_4	
J04 - 22A	*	GND	
J04 - 22C	*	GND	
J04 - 23A	P04 - 36	OUT08-_4	
J04 - 23C	P04 - 38	OUT07-_4	
J04 - 24A	P04 - 40	OUT06-_4	
J04 - 24C	P04 - 42	OUT05-_4	
J04 - 25A	*	GND	
J04 - 25C	*	GND	
J04 - 26A	P04 - 44	OUT04-_4	
J04 - 26C	P04 - 46	OUT03-_4	
J04 - 27A	P04 - 48	OUT02-_4	
J04 - 27C	P04 - 50	OUT01-_4	
J04 - 31A	*	GND	
J04 - 31C	*	GND	
J04 - 32A	#	+5V	
J04 - 32C	#	+5V	
J05 - 01A	#	+5V	
J05 - 01C	#	+5V	
J05 - 02A	*	GND	
J05 - 02C	*	GND	
J05 - 03A	P05 - 02	IN01-_5	
J05 - 03C	P05 - 04	IN02-_5	
J05 - 04A	P05 - 06	IN03-_5	
J05 - 04C	P05 - 08	IN04-_5	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
J05 - 05A	*	GND	
J05 - 05C	*	GND	
J05 - 06A	P05 - 10	IN05-_5	
J05 - 06C	P05 - 12	IN06-_5	
J05 - 07A	P05 - 14	IN07-_5	
J05 - 07C	P05 - 16	IN08-_5	
J05 - 08A	*	GND	
J05 - 08C	*	GND	
J05 - 09A	P05 - 18	IN09-_5	
J05 - 09C	P05 - 20	IN10-_5	
J05 - 10A	P05 - 22	IN11-_5	
J05 - 10C	P05 - 24	IN12-_5	
J05 - 11A	*	GND	
J05 - 11C	*	GND	
J05 - 12A	P05 - 19	BSEL-_5	
J05 - 13A	*	GND	
J05 - 13C	*	GND	
J05 - 16A	*	GND	
J05 - 16C	*	GND	
J05 - 17C	P05 - 25	OUT12D-_5	
J05 - 18A	P05 - 26	OUT12C-_5	
J05 - 18C	P05 - 27	OUT12B-_5	
J05 - 19A	*	GND	
J05 - 19C	*	GND	
J05 - 20A	P05 - 28	OUT12A-_5	
J05 - 20C	P05 - 30	OUT11-_5	
J05 - 21A	P05 - 32	OUT10-_5	
J05 - 21C	P05 - 34	OUT09-_5	
J05 - 22A	*	GND	
J05 - 22C	*	GND	
J05 - 23A	P05 - 36	OUT08-_5	
J05 - 23C	P05 - 38	OUT07-_5	
J05 - 24A	P05 - 40	OUT06-_5	
J05 - 24C	P05 - 42	OUT05-_5	
J05 - 25A	*	GND	
J05 - 25C	*	GND	
J05 - 26A	P05 - 44	OUT04-_5	
J05 - 26C	P05 - 46	OUT03-_5	
J05 - 27A	P05 - 48	OUT02-_5	
J05 - 27C	P05 - 50	OUT01-_5	
J05 - 31A	*	GND	
J05 - 31C	*	GND	
J05 - 32A	#	+5V	
J05 - 32C	#	+5V	

Continued

DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
J06 - 01A	#	+5V	
J06 - 01C	#	+5V	
J06 - 02A	*	GND	
J06 - 02C	*	GND	
J06 - 03A	P06 - 02	IN01-06	
J06 - 03C	P06 - 04	IN02-06	
J06 - 04A	P06 - 06	IN03-06	
J06 - 04C	P06 - 08	IN04-06	
J06 - 05A	*	GND	
J06 - 05C	*	GND	
J06 - 06A	P06 - 10	IN05-06	
J06 - 06C	P06 - 12	IN06-06	
J06 - 07A	P06 - 14	IN07-06	
J06 - 07C	P06 - 16	IN08-06	
J06 - 08A	*	GND	
J06 - 08C	*	GND	
J06 - 09A	P06 - 18	IN09-06	
J06 - 09C	P06 - 20	IN10-06	
J06 - 10A	P06 - 22	IN11-06	
J06 - 10C	P06 - 24	IN12-06	
J06 - 11A	*	GND	
J06 - 11C	*	GND	
J06 - 12A	P06 - 19	BSEL-06	
J06 - 13A	*	GND	
J06 - 13C	*	GND	
J06 - 16A	*	GND	
J06 - 16C	*	GND	
J06 - 17C	P06 - 25	OUT12D-06	
J06 - 18A	P06 - 26	OUT12C-06	
J06 - 18C	P06 - 27	OUT12B-06	
J06 - 19A	*	GND	
J06 - 19C	*	GND	
J06 - 20A	P06 - 28	OUT12A-06	
J06 - 20C	P06 - 30	OUT11-06	
J06 - 21A	P06 - 32	OUT10-06	
J06 - 21C	P06 - 34	OUT09-06	
J06 - 22A	*	GND	
J06 - 22C	*	GND	
J06 - 23A	P06 - 36	OUT08-06	
J06 - 23C	P06 - 38	OUT07-06	
J06 - 24A	P06 - 40	OUT06-06	
J06 - 24C	P06 - 42	OUT05-06	
J06 - 25A	*	GND	
J06 - 25C	*	GND	
J06 - 26A	P06 - 44	OUT04-06	
J06 - 26C	P06 - 46	OUT03-06	
J06 - 27A	P06 - 48	OUT02-06	

Continued

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
J06 - 27C	P06 - 50	OUT01-06	
J06 - 31A	*	GND	
J06 - 31C	*	GND	
J06 - 32A	#	+5V	
J06 - 32C	#	+5V	
J07 - 01A	#	+5V	
J07 - 01C	#	+5V	
J07 - 02A	*	GND	
J07 - 02C	*	GND	
J07 - 03A	P07 - 02	IN01-07	
J07 - 03C	P07 - 04	IN02-07	
J07 - 04A	P07 - 06	IN03-07	
J07 - 04C	P07 - 08	IN04-07	
J07 - 05A	*	GND	
J07 - 05C	*	GND	
J07 - 06A	P07 - 10	IN05-07	
J07 - 06C	P07 - 12	IN06-07	
J07 - 07A	P07 - 14	IN07-07	
J07 - 07C	P07 - 16	IN08-07	
J07 - 08A	*	GND	
J07 - 08C	*	GND	
J07 - 09A	P07 - 18	IN09-07	
J07 - 09C	P07 - 20	IN10-07	
J07 - 10A	P07 - 22	IN11-07	
J07 - 10C	P07 - 24	IN12-07	
J07 - 11A	*	GND	
J07 - 11C	*	GND	
J07 - 12A	P07 - 19	BSEL-07	
J07 - 13A	*	GND	
J07 - 13C	*	GND	
J07 - 16A	*	GND	
J07 - 16C	*	GND	
J07 - 17C	P07 - 25	OUT12D-07	
J07 - 18A	P07 - 26	OUT12C-07	
J07 - 18C	P07 - 27	OUT12B-07	
J07 - 19A	*	GND	
J07 - 19C	*	GND	
J07 - 20A	P07 - 28	OUT12A-07	
J07 - 20C	P07 - 30	OUT11-07	
J07 - 21A	P07 - 32	OUT10-07	
J07 - 21C	P07 - 34	OUT09-07	
J07 - 22A	*	GND	
J07 - 22C	*	GND	
J07 - 23A	P07 - 36	OUT08-07	
J07 - 23C	P07 - 38	OUT07-07	
J07 - 24A	P07 - 40	OUT06-07	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
J07 - 24C	P07 - 42	OUT05-07	
J07 - 25A	*	GND	
J07 - 25C	*	GND	
J07 - 26A	P07 - 44	OUT04-07	
J07 - 26C	P07 - 46	OUT03-07	
J07 - 27A	P07 - 48	OUT02-07	
J07 - 27C	P07 - 50	OUT01-07	
J07 - 31A	*	GND	
J07 - 31C	*	GND	
J07 - 32A	#	+5V	
J07 - 32C	#	+5V	
J08 - 01A	#	+5V	
J08 - 01C	#	+5V	
J08 - 02A	*	GND	
J08 - 02C	*	GND	
J08 - 03A	P08 - 02	IN01-08	
J08 - 03C	P08 - 04	IN02-08	
J08 - 04A	P08 - 06	IN03-08	
J08 - 04C	P08 - 08	IN04-08	
J08 - 05A	*	GND	
J08 - 05C	*	GND	
J08 - 06A	P08 - 10	IN05-08	
J08 - 06C	P08 - 12	IN06-08	
J08 - 07A	P08 - 14	IN07-08	
J08 - 07C	P08 - 16	IN08-08	
J08 - 08A	*	GND	
J08 - 08C	*	GND	
J08 - 09A	P08 - 18	IN09-08	
J08 - 09C	P08 - 20	IN10-08	
J08 - 10A	P08 - 22	IN11-08	
J08 - 10C	P08 - 24	IN12-08	
J08 - 11A	*	GND	
J08 - 11C	*	GND	
J08 - 12A	P08 - 19	BSEL-08	
J08 - 13A	*	GND	
J08 - 13C	*	GND	
J08 - 16A	*	GND	
J08 - 16C	*	GND	
J08 - 17C	P08 - 25	OUT12D-08	
J08 - 18A	P08 - 26	OUT12C-08	
J08 - 18C	P08 - 27	OUT12B-08	
J08 - 19A	*	GND	
J08 - 19C	*	GND	
J08 - 20A	P08 - 28	OUT12A-08	
J08 - 20C	P08 - 30	OUT11-08	
J08 - 21A	P08 - 32	OUT10-08	

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DIGITAL DELAY BACKPLANE				DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK	FROM	TO	FUNCTION	PUNCH BLOCK
J08 - 21C	P08 - 34	OUT09-08		J09 - 18C	P09 - 27	OUT12B-09	
J08 - 22A	*	GND		J09 - 19A	*	GND	
J08 - 22C	*	GND		J09 - 19C	*	GND	
J08 - 23A	P08 - 36	OUT08-08		J09 - 20A	P09 - 28	OUT12A-09	
J08 - 23C	P08 - 38	OUT07-08		J09 - 20C	P09 - 30	OUT11-09	
J08 - 24A	P08 - 40	OUT06-08		J09 - 21A	P09 - 32	OUT10-09	
J08 - 24C	P08 - 42	OUT05-08		J09 - 21C	P09 - 34	OUT09-09	
J08 - 25A	*	GND		J09 - 22A	*	GND	
J08 - 25C	*	GND		J09 - 22C	*	GND	
J08 - 26A	P08 - 44	OUT04-08		J09 - 23A	P09 - 36	OUT08-09	
J08 - 26C	P08 - 46	OUT03-08		J09 - 23C	P09 - 38	OUT07-09	
J08 - 27A	P08 - 48	OUT02-08		J09 - 24A	P09 - 40	OUT06-09	
J08 - 27C	P08 - 50	OUT01-08		J09 - 24C	P09 - 42	OUT05-09	
J08 - 31A	*	GND		J09 - 25A	*	GND	
J08 - 31C	*	GND		J09 - 25C	*	GND	
J08 - 32A	#	+5V		J09 - 26A	P09 - 44	OUT04-09	
J08 - 32C	#	+5V		J09 - 26C	P09 - 46	OUT03-09	
				J09 - 27A	P09 - 48	OUT02-09	
J09 - 01A	#	+5V		J09 - 27C	P09 - 50	OUT01-09	
J09 - 01C	#	+5V		J09 - 31A	*	GND	
J09 - 02A	*	GND		J09 - 31C	*	GND	
J09 - 02C	*	GND		J09 - 32A	#	+5V	
J09 - 03A	P09 - 02	IN01-09		J09 - 32C	#	+5V	
J09 - 03C	P09 - 04	IN02-09					
J09 - 04A	P09 - 06	IN03-09		J10 - 01A	#	+5V	
J09 - 04C	P09 - 08	IN04-09		J10 - 01C	#	+5V	
J09 - 05A	*	GND		J10 - 02A	*	GND	
J09 - 05C	*	GND		J10 - 02C	*	GND	
J09 - 06A	P09 - 10	IN05-09		J10 - 03A	P10 - 02	IN01-10	
J09 - 06C	P09 - 12	IN06-09		J10 - 03C	P10 - 04	IN02-10	
J09 - 07A	P09 - 14	IN07-09		J10 - 04A	P10 - 06	IN03-10	
J09 - 07C	P09 - 16	IN08-09		J10 - 04C	P10 - 08	IN04-10	
J09 - 08A	*	GND		J10 - 05A	*	GND	
J09 - 08C	*	GND		J10 - 05C	*	GND	
J09 - 09A	P09 - 18	IN09-09		J10 - 06A	P10 - 10	IN05-10	
J09 - 09C	P09 - 20	IN10-09		J10 - 06C	P10 - 12	IN06-10	
J09 - 10A	P09 - 22	IN11-09		J10 - 07A	P10 - 14	IN07-10	
J09 - 10C	P09 - 24	IN12-09		J10 - 07C	P10 - 16	IN08-10	
J09 - 11A	*	GND		J10 - 08A	*	GND	
J09 - 11C	*	GND		J10 - 08C	*	GND	
J09 - 12A	P09 - 19	BSEL-09		J10 - 09A	P10 - 18	IN09-10	
J09 - 13A	*	GND		J10 - 09C	P10 - 20	IN10-10	
J09 - 13C	*	GND		J10 - 10A	P10 - 22	IN11-10	
J09 - 16A	*	GND		J10 - 10C	P10 - 24	IN12-10	
J09 - 16C	*	GND		J10 - 11A	*	GND	
J09 - 17C	P09 - 25	OUT12D-09		J10 - 11C	*	GND	
J09 - 18A	P09 - 26	OUT12C-09		J10 - 12A	P10 - 19	BSEL-10	
Continued				Continued			

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
J10 - 13A	*	GND	
J10 - 13C	*	GND	
J10 - 16A	*	GND	
J10 - 16C	*	GND	
J10 - 17C	P10 - 25	OUT12D-10	
J10 - 18A	P10 - 26	OUT12C-10	
J10 - 18C	P10 - 27	OUT12B-10	
J10 - 19A	*	GND	
J10 - 19C	*	GND	
J10 - 20A	P10 - 28	OUT12A-10	
J10 - 20C	P10 - 30	OUT11-10	
J10 - 21A	P10 - 32	OUT10-10	
J10 - 21C	P10 - 34	OUT09-10	
J10 - 22A	*	GND	
J10 - 22C	*	GND	
J10 - 23A	P10 - 36	OUT08-10	
J10 - 23C	P10 - 38	OUT07-10	
J10 - 24A	P10 - 40	OUT06-10	
J10 - 24C	P10 - 42	OUT05-10	
J10 - 25A	*	GND	
J10 - 25C	*	GND	
J10 - 26A	P10 - 44	OUT04-10	
J10 - 26C	P10 - 46	OUT03-10	
J10 - 27A	P10 - 48	OUT02-10	
J10 - 27C	P10 - 50	OUT01-10	
J10 - 31A	*	GND	
J10 - 31C	*	GND	
J10 - 32A	#	+5V	
J10 - 32C	#	+5V	
J11 - 01A	#	+5V	
J11 - 01C	#	+5V	
J11 - 02A	*	GND	
J11 - 02C	*	GND	
J11 - 03A	P11 - 02	IN01-11	
J11 - 03C	P11 - 04	IN02-11	
J11 - 04A	P11 - 06	IN03-11	
J11 - 04C	P11 - 08	IN04-11	
J11 - 05A	*	GND	
J11 - 05C	*	GND	
J11 - 06A	P11 - 10	IN05-11	
J11 - 06C	P11 - 12	IN06-11	
J11 - 07A	P11 - 14	IN07-11	
J11 - 07C	P11 - 16	IN08-11	
J11 - 08A	*	GND	
J11 - 08C	*	GND	
J11 - 09A	P11 - 18	IN09-11	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
J11 - 09C	P11 - 20	IN10-11	
J11 - 10A	P11 - 22	IN11-11	
J11 - 10C	P11 - 24	IN12-11	
J11 - 11A	*	GND	
J11 - 11C	*	GND	
J11 - 12A	P11 - 19	BSEL-11	
J11 - 13A	*	GND	
J11 - 13C	*	GND	
J11 - 16A	*	GND	
J11 - 16C	*	GND	
J11 - 17C	P11 - 25	OUT12D-11	
J11 - 18A	P11 - 26	OUT12C-11	
J11 - 18C	P11 - 27	OUT12B-11	
J11 - 19A	*	GND	
J11 - 19C	*	GND	
J11 - 20A	P11 - 28	OUT12A-11	
J11 - 20C	P11 - 30	OUT11-11	
J11 - 21A	P11 - 32	OUT10-11	
J11 - 21C	P11 - 34	OUT09-11	
J11 - 22A	*	GND	
J11 - 22C	*	GND	
J11 - 23A	P11 - 36	OUT08-11	
J11 - 23C	P11 - 38	OUT07-11	
J11 - 24A	P11 - 40	OUT06-11	
J11 - 24C	P11 - 42	OUT05-11	
J11 - 25A	*	GND	
J11 - 25C	*	GND	
J11 - 26A	P11 - 44	OUT04-11	
J11 - 26C	P11 - 46	OUT03-11	
J11 - 27A	P11 - 48	OUT02-11	
J11 - 27C	P11 - 50	OUT01-11	
J11 - 31A	*	GND	
J11 - 31C	*	GND	
J11 - 32A	#	+5V	
J11 - 32C	#	+5V	
J12 - 01A	#	+5V	
J12 - 01C	#	+5V	
J12 - 02A	*	GND	
J12 - 02C	*	GND	
J12 - 03A	P12 - 02	IN01-12	
J12 - 03C	P12 - 04	IN02-12	
J12 - 04A	P12 - 06	IN03-12	
J12 - 04C	P12 - 08	IN04-12	
J12 - 05A	*	GND	
J12 - 05C	*	GND	
J12 - 06A	P12 - 10	IN05-12	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
J12 - 06C	P12 - 12	IN06-12	
J12 - 07A	P12 - 14	IN07-12	
J12 - 07C	P12 - 16	IN08-12	
J12 - 08A	*	GND	
J12 - 08C	*	GND	
J12 - 09A	P12 - 18	IN09-12	
J12 - 09C	P12 - 20	IN10-12	
J12 - 10A	P12 - 22	IN11-12	
J12 - 10C	P12 - 24	IN12-12	
J12 - 11A	*	GND	
J12 - 11C	*	GND	
J12 - 12A	P12 - 19	BSEL-12	
J12 - 13A	*	GND	
J12 - 13C	*	GND	
J12 - 16A	*	GND	
J12 - 16C	*	GND	
J12 - 17C	P12 - 25	OUT12D-12	
J12 - 18A	P12 - 26	OUT12C-12	
J12 - 18C	P12 - 27	OUT12B-12	
J12 - 19A	*	GND	
J12 - 19C	*	GND	
J12 - 20A	P12 - 28	OUT12A-12	
J12 - 20C	P12 - 30	OUT11-12	
J12 - 21A	P12 - 32	OUT10-12	
J12 - 21C	P12 - 34	OUT09-12	
J12 - 22A	*	GND	
J12 - 22C	*	GND	
J12 - 23A	P12 - 36	OUT08-12	
J12 - 23C	P12 - 38	OUT07-12	
J12 - 24A	P12 - 40	OUT06-12	
J12 - 24C	P12 - 42	OUT05-12	
J12 - 25A	*	GND	
J12 - 25C	*	GND	
J12 - 26A	P12 - 44	OUT04-12	
J12 - 26C	P12 - 46	OUT03-12	
J12 - 27A	P12 - 48	OUT02-12	
J12 - 27C	P12 - 50	OUT01-12	
J12 - 31A	*	GND	
J12 - 31C	*	GND	
J12 - 32A	#	+5V	
J12 - 32C	#	+5V	
J13 - 01A	#	+5V	
J13 - 01C	#	+5V	
J13 - 02A	*	GND	
J13 - 02C	*	GND	
J13 - 03A	P13 - 02	IN01-13	

DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
J13 - 03C	P13 - 04	IN02-13	
J13 - 04A	P13 - 06	IN03-13	
J13 - 04C	P13 - 08	IN04-13	
J13 - 05A	*	GND	
J13 - 05C	*	GND	
J13 - 06A	P13 - 10	IN05-13	
J13 - 06C	P13 - 12	IN06-13	
J13 - 07A	P13 - 14	IN07-13	
J13 - 07C	P13 - 16	IN08-13	
J13 - 08A	*	GND	
J13 - 08C	*	GND	
J13 - 09A	P13 - 18	IN09-13	
J13 - 09C	P13 - 20	IN10-13	
J13 - 10A	P13 - 22	IN11-13	
J13 - 10C	P13 - 24	IN12-13	
J13 - 11A	*	GND	
J13 - 11C	*	GND	
J13 - 12A	P13 - 19	BSEL-13	
J13 - 13A	*	GND	
J13 - 13C	*	GND	
J13 - 16A	*	GND	
J13 - 16C	*	GND	
J13 - 17C	P13 - 25	OUT12D-13	
J13 - 18A	P13 - 26	OUT12C-13	
J13 - 18C	P13 - 27	OUT12B-13	
J13 - 19A	*	GND	
J13 - 19C	*	GND	
J13 - 20A	P13 - 28	OUT12A-13	
J13 - 20C	P13 - 30	OUT11-13	
J13 - 21A	P13 - 32	OUT10-13	
J13 - 21C	P13 - 34	OUT09-13	
J13 - 22A	*	GND	
J13 - 22C	*	GND	
J13 - 23A	P13 - 36	OUT08-13	
J13 - 23C	P13 - 38	OUT07-13	
J13 - 24A	P13 - 40	OUT06-13	
J13 - 24C	P13 - 42	OUT05-13	
J13 - 25A	*	GND	
J13 - 25C	*	GND	
J13 - 26A	P13 - 44	OUT04-13	
J13 - 26C	P13 - 46	OUT03-13	
J13 - 27A	P13 - 48	OUT02-13	
J13 - 27C	P13 - 50	OUT01-13	
J13 - 31A	*	GND	
J13 - 31C	*	GND	
J13 - 32A	#	+5V	
J13 - 32C	#	+5V	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
J14 - 01A	#	+5V	
J14 - 01C	#	+5V	
J14 - 02A	*	GND	
J14 - 02C	*	GND	
J14 - 03A	P14 - 02	IN01-14	
J14 - 03C	P14 - 04	IN02-14	
J14 - 04A	P14 - 06	IN03-14	
J14 - 04C	P14 - 08	IN04-14	
J14 - 05A	*	GND	
J14 - 05C	*	GND	
J14 - 06A	P14 - 10	IN05-14	
J14 - 06C	P14 - 12	IN06-14	
J14 - 07A	P14 - 14	IN07-14	
J14 - 07C	P14 - 16	IN08-14	
J14 - 08A	*	GND	
J14 - 08C	*	GND	
J14 - 09A	P14 - 18	IN09-14	
J14 - 09C	P14 - 20	IN10-14	
J14 - 10A	P14 - 22	IN11-14	
J14 - 10C	P14 - 24	IN12-14	
J14 - 11A	*	GND	
J14 - 11C	*	GND	
J14 - 12A	P14 - 19	BSEL-14	
J14 - 13A	*	GND	
J14 - 13C	*	GND	
J14 - 16A	*	GND	
J14 - 16C	*	GND	
J14 - 17C	P14 - 25	OUT12D-14	
J14 - 18A	P14 - 26	OUT12C-14	
J14 - 18C	P14 - 27	OUT12B-14	
J14 - 19A	*	GND	
J14 - 19C	*	GND	
J14 - 20A	P14 - 28	OUT12A-14	
J14 - 20C	P14 - 30	OUT11-14	
J14 - 21A	P14 - 32	OUT10-14	
J14 - 21C	P14 - 34	OUT09-14	
J14 - 22A	*	GND	
J14 - 22C	*	GND	
J14 - 23A	P14 - 36	OUT08-14	
J14 - 23C	P14 - 38	OUT07-14	
J14 - 24A	P14 - 40	OUT06-14	
J14 - 24C	P14 - 42	OUT05-14	
J14 - 25A	*	GND	
J14 - 25C	*	GND	
J14 - 26A	P14 - 44	OUT04-14	
J14 - 26C	P14 - 46	OUT03-14	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
J14 - 27A	P14 - 48	OUT02-14	
J14 - 27C	P14 - 50	OUT01-14	
J14 - 31A	*	GND	
J14 - 31C	*	GND	
J14 - 32A	#	+5V	
J14 - 32C	#	+5V	
J15 - 01A	#	+5V	
J15 - 01C	#	+5V	
J15 - 02A	*	GND	
J15 - 02C	*	GND	
J15 - 03A	P15 - 02	IN01-15	
J15 - 03C	P15 - 04	IN02-15	
J15 - 04A	P15 - 06	IN03-15	
J15 - 04C	P15 - 08	IN04-15	
J15 - 05A	*	GND	
J15 - 05C	*	GND	
J15 - 06A	P15 - 10	IN05-15	
J15 - 06C	P15 - 12	IN06-15	
J15 - 07A	P15 - 14	IN07-15	
J15 - 07C	P15 - 16	IN08-15	
J15 - 08A	*	GND	
J15 - 08C	*	GND	
J15 - 09A	P15 - 18	IN09-15	
J15 - 09C	P15 - 20	IN10-15	
J15 - 10A	P15 - 22	IN11-15	
J15 - 10C	P15 - 24	IN12-15	
J15 - 11A	*	GND	
J15 - 11C	*	GND	
J15 - 12A	P15 - 19	BSEL-15	
J15 - 13A	*	GND	
J15 - 13C	*	GND	
J15 - 16A	*	GND	
J15 - 16C	*	GND	
J15 - 17C	P15 - 25	OUT12D-15	
J15 - 18A	P15 - 26	OUT12C-15	
J15 - 18C	P15 - 27	OUT12B-15	
J15 - 19A	*	GND	
J15 - 19C	*	GND	
J15 - 20A	P15 - 28	OUT12A-15	
J15 - 20C	P15 - 30	OUT11-15	
J15 - 21A	P15 - 32	OUT10-15	
J15 - 21C	P15 - 34	OUT09-15	
J15 - 22A	*	GND	
J15 - 22C	*	GND	
J15 - 23A	P15 - 36	OUT08-15	
J15 - 23C	P15 - 38	OUT07-15	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
J15 - 24A	P15 - 40	OUT06-15	
J15 - 24C	P15 - 42	OUT05-15	
J15 - 25A	*	GND	
J15 - 25C	*	GND	
J15 - 26A	P15 - 44	OUT04-15	
J15 - 26C	P15 - 46	OUT03-15	
J15 - 27A	P15 - 48	OUT02-15	
J15 - 27C	P15 - 50	OUT01-15	
J15 - 31A	*	GND	
J15 - 31C	*	GND	
J15 - 32A	#	+5V	
J15 - 32C	#	+5V	
J16 - 01A	#	+5V	
J16 - 01C	#	+5V	
J16 - 02A	*	GND	
J16 - 02C	*	GND	
J16 - 03A	P16 - 02	IN01-16	
J16 - 03C	P16 - 04	IN02-16	
J16 - 04A	P16 - 06	IN03-16	
J16 - 04C	P16 - 08	IN04-16	
J16 - 05A	*	GND	
J16 - 05C	*	GND	
J16 - 06A	P16 - 10	N05-16	
J16 - 06C	P16 - 12	IN06-16	
J16 - 07A	P16 - 14	IN07-16	
J16 - 07C	P16 - 16	IN08-16	
J16 - 08A	*	GND	
J16 - 08C	*	GND	
J16 - 09A	P16 - 18	IN09-16	
J16 - 09C	P16 - 20	IN10-16	
J16 - 10A	P16 - 22	IN11-16	
J16 - 10C	P16 - 24	IN12-16	
J16 - 11A	*	GND	
J16 - 11C	*	GND	
J16 - 12A	P16 - 19	BSEL-16	
J16 - 13A	*	GND	
J16 - 13C	*	GND	
J16 - 16A	*	GND	
J16 - 16C	*	GND	
J16 - 17C		OUT12D-16	
J16 - 18A	P16 - 26	OUT12C-16	
J16 - 18C	P16 - 27	OUT12B-16	
J16 - 19A	*	GND	
J16 - 19C	*	GND	
J16 - 20A	P16 - 28	OUT12A-16	
J16 - 20C	P16 - 30	OUT11-16	

Continued

DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
J16 - 21A	P16 - 32	OUT10-16	
J16 - 21C	P16 - 34	OUT09-16	
J16 - 22A	*	GND	
J16 - 22C	*	GND	
J16 - 23A	P16 - 36	OUT08-16	
J16 - 23C	P16 - 38	OUT07-16	
J16 - 24A	P16 - 40	OUT06-16	
J16 - 24C	P16 - 42	OUT05-16	
J16 - 25A	*	GND	
J16 - 25C	*	GND	
J16 - 26A	P16 - 44	OUT04-16	
J16 - 26C	P16 - 46	OUT03-16	
J16 - 27A	P16 - 48	OUT02-16	
J16 - 27C	P16 - 50	OUT01-16	
J16 - 31A	*	GND	
J16 - 31C	*	GND	
J16 - 32A	#	+5V	
J16 - 32C	#	+5V	
J17 - 01A	#	+5V	
J17 - 01C	#	+5V	
J17 - 02A	*	GND	
J17 - 02C	*	GND	
J17 - 03A	P17 - 02	IN01-17	
J17 - 03C	P17 - 04	IN02-17	
J17 - 04A	P17 - 06	IN03-17	
J17 - 04C	P17 - 08	IN04-17	
J17 - 05A	*	GND	
J17 - 05C	*	GND	
J17 - 06A	P17 - 10	IN05-17	
J17 - 06C	P17 - 12	IN06-17	
J17 - 07A	P17 - 14	IN07-17	
J17 - 07C	P17 - 16	IN08-17	
J17 - 08A	*	GND	
J17 - 08C	*	GND	
J17 - 09A	P17 - 18	IN09-17	
J17 - 09C	P17 - 20	IN10-17	
J17 - 10A	P17 - 22	IN11-17	
J17 - 10C	P17 - 24	IN12-17	
J17 - 11A	*	GND	
J17 - 11C	*	GND	
J17 - 12A	P17 - 19	BSEL-17	
J17 - 13A	*	GND	
J17 - 13C	*	GND	
J17 - 16A	*	GND	
J17 - 16C	*	GND	
J17 - 17C	P17 - 25	OUT12D-17	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
J17 - 18A	P17 - 26	OUT12C-17	
J17 - 18C	P17 - 27	OUT12B-17	
J17 - 19A	*	GND	
J17 - 19C	*	GND	
J17 - 20A	P17 - 28	OUT12A-17	
J17 - 20C	P17 - 30	OUT11-17	
J17 - 21A	P17 - 32	OUT10-17	
J17 - 21C	P17 - 34	OUT09-17	
J17 - 22A	*	GND	
J17 - 22C	*	GND	
J17 - 23A	P17 - 36	OUT08-17	
J17 - 23C	P17 - 38	OUT07-17	
J17 - 24A	P17 - 40	OUT06-17	
J17 - 24C	P17 - 42	OUT05-17	
J17 - 25A	*	GND	
J17 - 25C	*	GND	
J17 - 26A	P17 - 44	OUT04-17	
J17 - 26C	P17 - 46	OUT03-17	
J17 - 27A	P17 - 48	OUT02-17	
J17 - 27C	P17 - 50	OUT01-17	
J17 - 31A	*	GND	
J17 - 31C	*	GND	
J17 - 32A	#	+5V	
J17 - 32C	#	+5V	
J18 - 01A	#	+5V	
J18 - 01C	#	+5V	
J18 - 02A	*	GND	
J18 - 02C	*	GND	
J18 - 03A	P18 - 02	IN01-18	
J18 - 03C	P18 - 04	IN02-18	
J18 - 04A	P18 - 06	IN03-18	
J18 - 04C	P18 - 08	IN04-18	
J18 - 05A	*	GND	
J18 - 05C	*	GND	
J18 - 06A	P18 - 10	IN05-18	
J18 - 06C	P18 - 12	IN06-18	
J18 - 07A	P18 - 14	IN07-18	
J18 - 07C	P18 - 16	IN08-18	
J18 - 08A	*	GND	
J18 - 08C	*	GND	
J18 - 09A	P18 - 18	IN09-18	
J18 - 09C	P18 - 20	IN10-18	
J18 - 10A	P18 - 22	IN11-18	
J18 - 10C	P18 - 24	IN12-18	
J18 - 11A	*	GND	
J18 - 11C	*	GND	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
J18 - 12A	P18 - 19	BSEL-18	
J18 - 13A	*	GND	
J18 - 13C	*	GND	
J18 - 16A	*	GND	
J18 - 16C	*	GND	
J18 - 17C	P18 - 25	OUT12D-18	
J18 - 18A	P18 - 26	OUT12C-18	
J18 - 18C	P18 - 27	OUT12B-18	
J18 - 19A	*	GND	
J18 - 19C	*	GND	
J18 - 20A	P18 - 28	OUT12A-18	
J18 - 20C	P18 - 30	OUT11-18	
J18 - 21A	P18 - 32	OUT10-18	
J18 - 21C	P18 - 34	OUT09-18	
J18 - 22A	*	GND	
J18 - 22C	*	GND	
J18 - 23A	P18 - 36	OUT08-18	
J18 - 23C	P18 - 38	OUT07-18	
J18 - 24A	P18 - 40	OUT06-18	
J18 - 24C	P18 - 42	OUT05-18	
J18 - 25A	*	GND	
J18 - 25C	*	GND	
J18 - 26A	P18 - 44	OUT04-18	
J18 - 26C	P18 - 46	OUT03-18	
J18 - 27A	P18 - 48	OUT02-18	
J18 - 27C	P18 - 50	OUT01-18	
J18 - 31A	*	GND	
J18 - 31C	*	GND	
J18 - 32A	#	+5V	
J18 - 32C	#	+5V	
J19 - 01A	#	+5V	
J19 - 01C	#	+5V	
J19 - 02A	*	GND	
J19 - 02C	*	GND	
J19 - 03A	P19 - 02	IN01-19	
J19 - 03C	P19 - 04	IN02-19	
J19 - 04A	P19 - 06	IN03-19	
J19 - 04C	P19 - 08	IN04-19	
J19 - 05A	*	GND	
J19 - 05C	*	GND	
J19 - 06A	P19 - 10	IN05-19	
J19 - 06C	P19 - 12	IN06-19	
J19 - 07A	P19 - 14	IN07-19	
J19 - 07C	P19 - 16	IN08-19	
J19 - 08A	*	GND	
J19 - 08C	*	GND	

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DIGITAL DELAY BACKPLANE				DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK	FROM	TO	FUNCTION	PUNCH BLOCK
J19 - 09A	P19 - 18	IN09-19		J20 - 06A	P20 - 10	IN05-20	
J19 - 09C	P19 - 20	IN10-19		J20 - 06C	P20 - 12	IN06-20	
J19 - 10A	P19 - 22	IN11-19		J20 - 07A	P20 - 14	IN07-20	
J19 - 10C	P19 - 24	IN12-19		J20 - 07C	P20 - 16	IN08-20	
J19 - 11A	*	GND		J20 - 08A	*	GND	
J19 - 11C	*	GND		J20 - 08C	*	GND	
J19 - 12A	P19 - 19	BSEL-19		J20 - 09A	P20 - 18	IN09-20	
J19 - 13A	*	GND		J20 - 09C	P20 - 20	IN10-20	
J19 - 13C	*	GND		J20 - 10A	P20 - 22	IN11-20	
J19 - 16A	*	GND		J20 - 10C	P20 - 24	IN12-20	
J19 - 16C	*	GND		J20 - 11A	*	GND	
J19 - 17C	P19 - 25	OUT12D-19		J20 - 11C	*	GND	
J19 - 18A	P19 - 26	OUT12C-19		J20 - 12A	P20 - 19	BSEL-20	
J19 - 18C	P19 - 27	OUT12B-19		J20 - 13A	*	GND	
J19 - 19A	*	GND		J20 - 13C	*	GND	
J19 - 19C	*	GND		J20 - 16A	*	GND	
J19 - 20A	P19 - 28	OUT12A-19		J20 - 16C	*	GND	
J19 - 20C	P19 - 30	OUT11-19		J20 - 17C	P20 - 25	OUT12D-20	
J19 - 21A	P19 - 32	OUT10-19		J20 - 18A	P20 - 26	OUT12C-20	
J19 - 21C	P19 - 34	OUT09-19		J20 - 18C	P20 - 27	OUT12B-20	
J19 - 22A	*	GND		J20 - 19A	*	GND	
J19 - 22C	*	GND		J20 - 19C	*	GND	
J19 - 23A	P19 - 36	OUT08-19		J20 - 20A	P20 - 28	OUT12A-20	
J19 - 23C	P19 - 38	OUT07-19		J20 - 20C	P20 - 30	OUT11-20	
J19 - 24A	P19 - 40	OUT06-19		J20 - 21A	P20 - 32	OUT10-20	
J19 - 24C	P19 - 42	OUT05-19		J20 - 21C	P20 - 34	OUT09-20	
J19 - 25A	*	GND		J20 - 22A	*	GND	
J19 - 25C	*	GND		J20 - 22C	*	GND	
J19 - 26A	P19 - 44	OUT04-19		J20 - 23A	P20 - 36	OUT08-20	
J19 - 26C	P19 - 46	OUT03-19		J20 - 23C	P20 - 38	OUT07-20	
J19 - 27A	P19 - 48	OUT02-19		J20 - 24A	P20 - 40	OUT06-20	
J19 - 27C	P19 - 50	OUT01-19		J20 - 24C	P20 - 42	OUT05-20	
J19 - 31A	*	GND		J20 - 25A	*	GND	
J19 - 31C	*	GND		J20 - 25C	*	GND	
J19 - 32A	#	+5V		J20 - 26A	P20 - 44	OUT04-20	
J19 - 32C	#	+5V		J20 - 26C	P20 - 46	OUT03-20	
				J20 - 27A	P20 - 48	OUT02-20	
J20 - 01A	#	+5V		J20 - 27C	P20 - 50	OUT01-20	
J20 - 01C	#	+5V		J20 - 31A	*	GND	
J20 - 02A	*	GND		J20 - 31C	*	GND	
J20 - 02C	*	GND		J20 - 32A	#	+5V	
J20 - 03A	P20 - 02	IN01-20		J20 - 32C	#	+5V	
J20 - 03C	P20 - 04	IN02-20					
J20 - 04A	P20 - 06	IN03-20		P01 - 01	*	GND	
J20 - 04C	P20 - 08	IN04-20		P01 - 02	J01 - 03A	IN01-_1	
J20 - 05A	*	GND		P01 - 03	*	GND	
J20 - 05C	*	GND		P01 - 04	J01 - 03C	IN02-_1	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
P01 - 05	*	GND	
P01 - 06	J01 - 04A	IN03-_1	
P01 - 07	*	GND	
P01 - 08	J01 - 04C	IN04-_1	
P01 - 09	*	GND	
P01 - 10	J01 - 06A	IN05-_1	
P01 - 11	*	GND	
P01 - 12	J01 - 06C	IN06-_1	
P01 - 13	*	GND	
P01 - 14	J01 - 07A	IN07-_1	
P01 - 15	*	GND	
P01 - 16	J01 - 07C	IN08-_1	
P01 - 17	*	GND	
P01 - 18	J01 - 09A	IN09-_1	
P01 - 19	J01 - 12A	BSEL-_1	
P01 - 20	J01 - 09C	IN10-_1	
P01 - 21	*	GND	
P01 - 22	J01 - 10A	IN11-_1	
P01 - 23	*	GND	
P01 - 24	J01 - 10C	IN12-_1	
P01 - 25	J01 - 17C	OUT12D-_1	
P01 - 26	J01 - 18A	OUT12C-_1	
P01 - 27	J01 - 18C	OUT12B-_1	
P01 - 28	J01 - 20A	OUT12A-_1	
P01 - 29	*	GND	
P01 - 30	J01 - 20C	OUT11-_1	
P01 - 31	*	GND	
P01 - 32	J01 - 21A	OUT10-_1	
P01 - 33	*	GND	
P01 - 34	J01 - 21C	OUT09-_1	
P01 - 35	*	GND	
P01 - 36	J01 - 23A	OUT08-_1	
P01 - 37	*	GND	
P01 - 38	J01 - 23C	OUT07-_1	
P01 - 39	*	GND	
P01 - 40	J01 - 24A	OUT06-_1	
P01 - 41	*	GND	
P01 - 42	J01 - 24C	OUT05-_1	
P01 - 43	*	GND	
P01 - 44	J01 - 26A	OUT04-_1	
P01 - 45	*	GND	
P01 - 46	J01 - 26C	OUT03-_1	
P01 - 47	*	GND	
P01 - 48	J01 - 27A	OUT02-_1	
P01 - 49	*	GND	
P01 - 50	J01 - 27C	OUT01-_1	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
P02 - 01	*	GND	
P02 - 02	J02 - 03A	IN01-_2	
P02 - 03	*	GND	
P02 - 04	J02 - 03C	IN02-_2	
P02 - 05	*	GND	
P02 - 06	J02 - 04A	IN03-_2	
P02 - 07	*	GND	
P02 - 08	J02 - 04C	IN04-_2	
P02 - 09	*	GND	
P02 - 10	J02 - 06A	IN05-_2	
P02 - 11	*	GND	
P02 - 12	J02 - 06C	IN06-_2	
P02 - 13	*	GND	
P02 - 14	J02 - 07A	IN07-_2	
P02 - 15	*	GND	
P02 - 16	J02 - 07C	IN08-_2	
P02 - 17	*	GND	
P02 - 18	J02 - 09A	IN09-_2	
P02 - 19	J02 - 12A	BSEL-_2	
P02 - 20	J02 - 09C	IN10-_2	
P02 - 21	*	GND	
P02 - 22	J02 - 10A	IN11-_2	
P02 - 23	*	GND	
P02 - 24	J02 - 10C	IN12-_2	
P02 - 25	J02 - 17C	OUT12D-_2	
P02 - 26	J02 - 18A	OUT12C-_2	
P02 - 27	J02 - 18C	OUT12B-_2	
P02 - 28	J02 - 20A	OUT12A-_2	
P02 - 29	*	GND	
P02 - 30	J02 - 20C	OUT11-_2	
P02 - 31	*	GND	
P02 - 32	J02 - 21A	OUT10-_2	
P02 - 33	*	GND	
P02 - 34	J02 - 21C	OUT09-_2	
P02 - 35	*	GND	
P02 - 36	J02 - 23A	OUT08-_2	
P02 - 37	*	GND	
P02 - 38	J02 - 23C	OUT07-_2	
P02 - 39	*	GND	
P02 - 40	J02 - 24A	OUT06-_2	
P02 - 41	*	GND	
P02 - 42	J02 - 24C	OUT05-_2	
P02 - 43	*	GND	
P02 - 44	J02 - 26A	OUT04-_2	
P02 - 45	*	GND	
P02 - 46	J02 - 26C	OUT03-_2	

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DIGITAL DELAY BACKPLANE				DIGITAL DELAY BACKPLANE			
<u>FROM</u>	<u>TO</u>	<u>FUNCTION</u>	<u>PUNCH BLOCK</u>	<u>FROM</u>	<u>TO</u>	<u>FUNCTION</u>	<u>PUNCH BLOCK</u>
P02 - 47	*	GND		P03 - 43	*	GND	
P02 - 48	J02 - 27A	OUT02-_2		P03 - 44	J03 - 26A	OUT04-_3	
P02 - 49	*	GND		P03 - 45	*	GND	
P02 - 50	J02 - 27C	OUT01-_2		P03 - 46	J03 - 26C	OUT03-_3	
				P03 - 47	*	GND	
P03 - 01	*	GND		P03 - 48	J03 - 27A	OUT02-_3	
P03 - 02	J03 - 03A	IN01-_3		P03 - 49	*	GND	
P03 - 03	*	GND		P03 - 50	J03 - 27C	OUT01-_3	
P03 - 04	J03 - 03C	IN02-_3					
P03 - 05	*	GND		P04 - 01	*	GND	
P03 - 06	J03 - 04A	IN03-_3		P04 - 02	J04 - 03A	IN01-_4	
P03 - 07	*	GND		P04 - 03	*	GND	
P03 - 08	J03 - 04C	IN04-_3		P04 - 04	J04 - 03C	IN02-_4	
P03 - 09	*	GND		P04 - 05	*	GND	
P03 - 10	J03 - 06A	IN05-_3		P04 - 06	J04 - 04A	IN03-_4	
P03 - 11	*	GND		P04 - 07	*	GND	
P03 - 12	J03 - 06C	IN06-_3		P04 - 08	J04 - 04C	IN04-_4	
P03 - 13	*	GND		P04 - 09	*	GND	
P03 - 14	J03 - 07A	IN07-_3		P04 - 10	J04 - 06A	IN05-_4	
P03 - 15	*	GND		P04 - 11	*	GND	
P03 - 16	J03 - 07C	IN08-_3		P04 - 12	J04 - 06C	IN06-_4	
P03 - 17	*	GND		P04 - 13	*	GND	
P03 - 18	J03 - 09A	IN09-_3		P04 - 14	J04 - 07A	IN07-_4	
P03 - 19	J03 - 12A	BSEL-_3		P04 - 15	*	GND	
P03 - 20	J03 - 09C	IN10-_3		P04 - 16	J04 - 07C	IN08-_4	
P03 - 21	*	GND		P04 - 17	*	GND	
P03 - 22	J03 - 10A	IN11-_3		P04 - 18	J04 - 09A	IN09-_4	
P03 - 23	*	GND		P04 - 19	J04 - 12A	BSEL-_4	
P03 - 24	J03 - 10C	IN12-_3		P04 - 20	J04 - 09C	IN10-_4	
P03 - 25	J03 - 17C	OUT12D-_3		P04 - 21	*	GND	
P03 - 26	J03 - 18A	OUT12C-_3		P04 - 22	J04 - 10A	IN11-_4	
P03 - 27	J03 - 18C	OUT12B-_3		P04 - 23	*	GND	
P03 - 28	J03 - 20A	OUT12A-_3		P04 - 24	J04 - 10C	IN12-_4	
P03 - 29	*	GND		P04 - 25	J04 - 17C	OUT12D-_4	
P03 - 30	J03 - 20C	OUT11-_3		P04 - 26	J04 - 18A	OUT12C-_4	
P03 - 31	*	GND		P04 - 27	J04 - 18C	OUT12B-_4	
P03 - 32	J03 - 21A	OUT10-_3		P04 - 28	J04 - 20A	OUT12A-_4	
P03 - 33	*	GND		P04 - 29	*	GND	
P03 - 34	J03 - 21C	OUT09-_3		P04 - 30	J04 - 20C	OUT11-_4	
P03 - 35	*	GND		P04 - 31	*	GND	
P03 - 36	J03 - 23A	OUT08-_3		P04 - 32	J04 - 21A	OUT10-_4	
P03 - 37	*	GND		P04 - 33	*	GND	
P03 - 38	J03 - 23C	OUT07-_3		P04 - 34	J04 - 21C	OUT09-_4	
P03 - 39	*	GND		P04 - 35	*	GND	
P03 - 40	J03 - 24A	OUT06-_3		P04 - 36	J04 - 23A	OUT08-_4	
P03 - 41	*	GND		P04 - 37	*	GND	
P03 - 42	J03 - 24C	OUT05-_3		P04 - 38	J04 - 23C	OUT07-_4	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
P04 - 39	*	GND	
P04 - 40	J04 - 24A	OUT06-_4	
P04 - 41	*	GND	
P04 - 42	J04 - 24C	OUT05-_4	
P04 - 43	*	GND	
P04 - 44	J04 - 26A	OUT04-_4	
P04 - 45	*	GND	
P04 - 46	J04 - 26C	OUT03-_4	
P04 - 47	*	GND	
P04 - 48	J04 - 27A	OUT02-_4	
P04 - 49	*	GND	
P04 - 50	J04 - 27C	OUT01-_4	
P05 TO B400 DIGITAL CROSS CONNECT J31/51			
P05 - 01	*	GND	
P05 - 02	J05 - 03A	IN01-_5	
P05 - 03	*	GND	
P05 - 04	J05 - 03C	IN02-_5	
P05 - 05	*	GND	
P05 - 06	J05 - 04A	IN03-_5	
P05 - 07	*	GND	
P05 - 08	J05 - 04C	IN04-_5	
P05 - 09	*	GND	
P05 - 10	J05 - 06A	IN05-_5	
P05 - 11	*	GND	
P05 - 12	J05 - 06C	IN06-_5	
P05 - 13	*	GND	
P05 - 14	J05 - 07A	IN07-_5	
P05 - 15	*	GND	
P05 - 16	J05 - 07C	IN08-_5	
P05 - 17	*	GND	
P05 - 18	J05 - 09A	IN09-_5	
P05 - 19	J05 - 12A	BSEL-_5	
P05 - 20	J05 - 09C	IN10-_5	
P05 - 21	*	GND	
P05 - 22	J05 - 10A	IN11-_5	
P05 - 23	*	GND	
P05 - 24	J05 - 10C	IN12-_5	
P05 - 25	J05 - 17C	OUT12D-_5	
P05 - 26	J05 - 18A	OUT12C-_5	
P05 - 27	J05 - 18C	OUT12B-_5	
P05 - 28	J05 - 20A	OUT12A-_5	
P05 - 29	*	GND	
P05 - 30	J05 - 20C	OUT11-_5	
P05 - 31	*	GND	
P05 - 32	J05 - 21A	OUT10-_5	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
P05 - 33	*	GND	
P05 - 34	J05 - 21C	OUT09-_5	
P05 - 35	*	GND	
P05 - 36	J05 - 23A	OUT08-_5	
P05 - 37	*	GND	
P05 - 38	J05 - 23C	OUT07-_5	
P05 - 39	*	GND	
P05 - 40	J05 - 24A	OUT06-_5	
P05 - 41	*	GND	
P05 - 42	J05 - 24C	OUT05-_5	
P05 - 43	*	GND	
P05 - 44	J05 - 26A	OUT04-_5	
P05 - 45	*	GND	
P05 - 46	J05 - 26C	OUT03-_5	
P05 - 47	*	GND	
P05 - 48	J05 - 27A	OUT02-_5	
P05 - 49	*	GND	
P05 - 50	J05 - 27C	OUT01-_5	
P06 TO B400 DIGITAL CROSS CONNECT J32/52			
P06 - 01	*	GND	
P06 - 02	J06 - 03A	IN01-06	
P06 - 03	*	GND	
P06 - 04	J06 - 03C	IN02-06	
P06 - 05	*	GND	
P06 - 06	J06 - 04A	IN03-06	
P06 - 07	*	GND	
P06 - 08	J06 - 04C	IN04-06	
P06 - 09	*	GND	
P06 - 10	J06 - 06A	IN05-06	
P06 - 11	*	GND	
P06 - 12	J06 - 06C	IN06-06	
P06 - 13	*	GND	
P06 - 14	J06 - 07A	IN07-06	
P06 - 15	*	GND	
P06 - 16	J06 - 07C	IN08-06	
P06 - 17	*	GND	
P06 - 18	J06 - 09A	IN09-06	
P06 - 19	J06 - 12A	BSEL-06	
P06 - 20	J06 - 09C	IN10-06	
P06 - 21	*	GND	
P06 - 22	J06 - 10A	IN11-06	
P06 - 23	*	GND	
P06 - 24	J06 - 10C	IN12-06	
P06 - 25	J06 - 17C	OUT12D-06	
P06 - 26	J06 - 18A	OUT12C-06	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
P06 - 27	J06 - 18C	OUT12B-06	
P06 - 28	J06 - 20A	OUT12A-06	
P06 - 29	*	GND	
P06 - 30	J06 - 20C	OUT11-06	
P06 - 31	*	GND	
P06 - 32	J06 - 21A	OUT10-06	
P06 - 33	*	GND	
P06 - 34	J06 - 21C	OUT09-06	
P06 - 35	*	GND	
P06 - 36	J06 - 23A	OUT08-06	
P06 - 37	*	GND	
P06 - 38	J06 - 23C	OUT07-06	
P06 - 39	*	GND	
P06 - 40	J06 - 24A	OUT06-06	
P06 - 41	*	GND	
P06 - 42	J06 - 24C	OUT05-06	
P06 - 43	*	GND	
P06 - 44	J06 - 26A	OUT04-06	
P06 - 45	*	GND	
P06 - 46	J06 - 26C	OUT03-06	
P06 - 47	*	GND	
P06 - 48	J06 - 27A	OUT02-06	
P06 - 49	*	GND	
P06 - 50	J06 - 27C	OUT01-06	
P07 TO B400 DIGITAL CROSS CONNECT J33/53			
P07 - 01	*	GND	
P07 - 02	J07 - 03A	IN01-07	
P07 - 03	*	GND	
P07 - 04	J07 - 03C	IN02-07	
P07 - 05	*	GND	
P07 - 06	J07 - 04A	IN03-07	
P07 - 07	*	GND	
P07 - 08	J07 - 04C	IN04-07	
P07 - 09	*	GND	
P07 - 10	J07 - 06A	IN05-07	
P07 - 11	*	GND	
P07 - 12	J07 - 06C	IN06-07	
P07 - 13	*	GND	
P07 - 14	J07 - 07A	IN07-07	
P07 - 15	*	GND	
P07 - 16	J07 - 07C	IN08-07	
P07 - 17	*	GND	
P07 - 18	J07 - 09A	IN09-07	
P07 - 19	J07 - 12A	BSEL-07	
P07 - 20	J07 - 09C	IN10-07	

DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
P07 - 21	*	GND	
P07 - 22	J07 - 10A	IN11-07	
P07 - 23	*	GND	
P07 - 24	J07 - 10C	IN12-07	
P07 - 25	J07 - 17C	OUT12D-07	
P07 - 26	J07 - 18A	OUT12C-07	
P07 - 27	J07 - 18C	OUT12B-07	
P07 - 28	J07 - 20A	OUT12A-07	
P07 - 29	*	GND	
P07 - 30	J07 - 20C	OUT11-07	
P07 - 31	*	GND	
P07 - 32	J07 - 21A	OUT10-07	
P07 - 33	*	GND	
P07 - 34	J07 - 21C	OUT09-07	
P07 - 35	*	GND	
P07 - 36	J07 - 23A	OUT08-07	
P07 - 37	*	GND	
P07 - 38	J07 - 23C	OUT07-07	
P07 - 39	*	GND	
P07 - 40	J07 - 24A	OUT06-07	
P07 - 41	*	GND	
P07 - 42	J07 - 24C	OUT05-07	
P07 - 43	*	GND	
P07 - 44	J07 - 26A	OUT04-07	
P07 - 45	*	GND	
P07 - 46	J07 - 26C	OUT03-07	
P07 - 47	*	GND	
P07 - 48	J07 - 27A	OUT02-07	
P07 - 49	*	GND	
P07 - 50	J07 - 27C	OUT01-07	
P08 TO B400 DIGITAL CROSS CONNECT J34/54			
P08 - 01	*	GND	
P08 - 02	J08 - 03A	IN01-08	
P08 - 03	*	GND	
P08 - 04	J08 - 03C	IN02-08	
P08 - 05	*	GND	
P08 - 06	J08 - 04A	IN03-08	
P08 - 07	*	GND	
P08 - 08	J08 - 04C	IN04-08	
P08 - 09	*	GND	
P08 - 10	J08 - 06A	IN05-08	
P08 - 11	*	GND	
P08 - 12	J08 - 06C	IN06-08	
P08 - 13	*	GND	
P08 - 14	J08 - 07A	IN07-08	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
P08 - 15	*	GND	
P08 - 16	J08 - 07C	IN08-08	
P08 - 17	*	GND	
P08 - 18	J08 - 09A	IN09-08	
P08 - 19	J08 - 12A	BSEL-08	
P08 - 20	J08 - 09C	IN10-08	
P08 - 21	*	GND	
P08 - 22	J08 - 10A	IN11-08	
P08 - 23	*	GND	
P08 - 24	J08 - 10C	IN12-08	
P08 - 25	J08 - 17C	OUT12D-08	
P08 - 26	J08 - 18A	OUT12C-08	
P08 - 27	J08 - 18C	OUT12B-08	
P08 - 28	J08 - 20A	OUT12A-08	
P08 - 29	*	GND	
P08 - 30	J08 - 20C	OUT11-08	
P08 - 31	*	GND	
P08 - 32	J08 - 21A	OUT10-08	
P08 - 33	*	GND	
P08 - 34	J08 - 21C	OUT09-08	
P08 - 35	*	GND	
P08 - 36	J08 - 23A	OUT08-08	
P08 - 37	*	GND	
P08 - 38	J08 - 23C	OUT07-08	
P08 - 39	*	GND	
P08 - 40	J08 - 24A	OUT06-08	
P08 - 41	*	GND	
P08 - 42	J08 - 24C	OUT05-08	
P08 - 43	*	GND	
P08 - 44	J08 - 26A	OUT04-08	
P08 - 45	*	GND	
P08 - 46	J08 - 26C	OUT03-08	
P08 - 47	*	GND	
P08 - 48	J08 - 27A	OUT02-08	
P08 - 49	*	GND	
P08 - 50	J08 - 27C	OUT01-08	
P09 TO B400 DIGITAL CROSS CONNECT J35/55			
P09 - 01	*	GND	
P09 - 02	J09 - 03A	IN01-09	
P09 - 03	*	GND	
P09 - 04	J09 - 03C	IN02-09	
P09 - 05	*	GND	
P09 - 06	J09 - 04A	IN03-09	
P09 - 07	*	GND	
P09 - 08	J09 - 04C	IN04-09	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
P09 - 09	*	GND	
P09 - 10	J09 - 06A	IN05-09	
P09 - 11	*	GND	
P09 - 12	J09 - 06C	IN06-09	
P09 - 13	*	GND	
P09 - 14	J09 - 07A	IN07-09	
P09 - 15	*	GND	
P09 - 16	J09 - 07C	IN08-09	
P09 - 17	*	GND	
P09 - 18	J09 - 09A	IN09-09	
P09 - 19	J09 - 12A	BSEL-09	
P09 - 20	J09 - 09C	IN10-09	
P09 - 21	*	GND	
P09 - 22	J09 - 10A	IN11-09	
P09 - 23	*	GND	
P09 - 24	J09 - 10C	IN12-09	
P09 - 25	J09 - 17C	OUT12D-09	
P09 - 26	J09 - 18A	OUT12C-09	
P09 - 27	J09 - 18C	OUT12B-09	
P09 - 28	J09 - 20A	OUT12A-09	
P09 - 29	*	GND	
P09 - 30	J09 - 20C	OUT11-09	
P09 - 31	*	GND	
P09 - 32	J09 - 21A	OUT10-09	
P09 - 33	*	GND	
P09 - 34	J09 - 21C	OUT09-09	
P09 - 35	*	GND	
P09 - 36	J09 - 23A	OUT08-09	
P09 - 37	*	GND	
P09 - 38	J09 - 23C	OUT07-09	
P09 - 39	*	GND	
P09 - 40	J09 - 24A	OUT06-09	
P09 - 41	*	GND	
P09 - 42	J09 - 24C	OUT05-09	
P09 - 43	*	GND	
P09 - 44	J09 - 26A	OUT04-09	
P09 - 45	*	GND	
P09 - 46	J09 - 26C	OUT03-09	
P09 - 47	*	GND	
P09 - 48	J09 - 27A	OUT02-09	
P09 - 49	*	GND	
P09 - 50	J09 - 27C	OUT01-09	
P10 TO B400 DIGITAL CROSS CONNECT J36/56			
P10 - 01	*	GND	
P10 - 02	J10 - 03A	IN01-10	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
P10 - 03	*	GND	
P10 - 04	J10 - 03C	IN02-10	
P10 - 05	*	GND	
P10 - 06	J10 - 04A	IN03-10	
P10 - 07	*	GND	
P10 - 08	J10 - 04C	IN04-10	
P10 - 09	*	GND	
P10 - 10	J10 - 06A	IN05-10	
P10 - 11	*	GND	
P10 - 12	J10 - 06C	IN06-10	
P10 - 13	*	GND	
P10 - 14	J10 - 07A	IN07-10	
P10 - 15	*	GND	
P10 - 16	J10 - 07C	IN08-10	
P10 - 17	*	GND	
P10 - 18	J10 - 09A	IN09-10	
P10 - 19	J10 - 12A	BSEL-10	
P10 - 20	J10 - 09C	IN10-10	
P10 - 21	*	GND	
P10 - 22	J10 - 10A	IN11-10	
P10 - 23	*	GND	
P10 - 24	J10 - 10C	IN12-10	
P10 - 25	J10 - 17C	OUT12D-10	
P10 - 26	J10 - 18A	OUT12C-10	
P10 - 27	J10 - 18C	OUT12B-10	
P10 - 28	J10 - 20A	OUT12A-10	
P10 - 29	*	GND	
P10 - 30	J10 - 20C	OUT11-10	
P10 - 31	*	GND	
P10 - 32	J10 - 21A	OUT10-10	
P10 - 33	*	GND	
P10 - 34	J10 - 21C	OUT09-10	
P10 - 35	*	GND	
P10 - 36	J10 - 23A	OUT08-10	
P10 - 37	*	GND	
P10 - 38	J10 - 23C	OUT07-10	
P10 - 39	*	GND	
P10 - 40	J10 - 24A	OUT06-10	
P10 - 41	*	GND	
P10 - 42	J10 - 24C	OUT05-10	
P10 - 43	*	GND	
P10 - 44	J10 - 26A	OUT04-10	
P10 - 45	*	GND	
P10 - 46	J10 - 26C	OUT03-10	
P10 - 47	*	GND	
P10 - 48	J10 - 27A	OUT02-10	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
P10 - 49	*	GND	
P10 - 50	J10 - 27C	OUT01-10	
P11 TO B400 DIGITAL CROSS CONNECT J37			
P11 - 01	*	GND	
P11 - 02	J11 - 03A	IN01-11	
P11 - 03	*	GND	
P11 - 04	J11 - 03C	IN02-11	
P11 - 05	*	GND	
P11 - 06	J11 - 04A	IN03-11	
P11 - 07	*	GND	
P11 - 08	J11 - 04C	IN04-11	
P11 - 09	*	GND	
P11 - 10	J11 - 06A	IN05-11	
P11 - 11	*	GND	
P11 - 12	J11 - 06C	IN06-11	
P11 - 13	*	GND	
P11 - 14	J11 - 07A	IN07-11	
P11 - 15	*	GND	
P11 - 16	J11 - 07C	IN08-11	
P11 - 17	*	GND	
P11 - 18	J11 - 09A	IN09-11	
P11 - 19	J11 - 12A	BSEL-11	
P11 - 20	J11 - 09C	IN10-11	
P11 - 21	*	GND	
P11 - 22	J11 - 10A	IN11-11	
P11 - 23	*	GND	
P11 - 24	J11 - 10C	IN12-11	
P11 - 25	J11 - 17C	OUT12D-11	
P11 - 26	J11 - 18A	OUT12C-11	
P11 - 27	J11 - 18C	OUT12B-11	
P11 - 28	J11 - 20A	OUT12A-11	
P11 - 29	*	GND	
P11 - 30	J11 - 20C	OUT11-11	
P11 - 31	*	GND	
P11 - 32	J11 - 21A	OUT10-11	
P11 - 33	*	GND	
P11 - 34	J11 - 21C	OUT09-11	
P11 - 35	*	GND	
P11 - 36	J11 - 23A	OUT08-11	
P11 - 37	*	GND	
P11 - 38	J11 - 23C	OUT07-11	
P11 - 39	*	GND	
P11 - 40	J11 - 24A	OUT06-11	
P11 - 41	*	GND	
P11 - 42	J11 - 24C	OUT05-11	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
P11 - 43	*	GND	
P11 - 44	J11 - 26A	OUT04-11	
P11 - 45	*	GND	
P11 - 46	J11 - 26C	OUT03-11	
P11 - 47	*	GND	
P11 - 48	J11 - 27A	OUT02-11	
P11 - 49	*	GND	
P11 - 50	J11 - 27C	OUT01-11	
P12 TO B400 DIGITAL CROSS CONNECT J38			
P12 - 01	*	GND	
P12 - 02	J12 - 03A	IN01-12	
P12 - 03	*	GND	
P12 - 04	J12 - 03C	IN02-12	
P12 - 05	*	GND	
P12 - 06	J12 - 04A	IN03-12	
P12 - 07	*	GND	
P12 - 08	J12 - 04C	IN04-12	
P12 - 09	*	GND	
P12 - 10	J12 - 06A	IN05-12	
P12 - 11	*	GND	
P12 - 12	J12 - 06C	IN06-12	
P12 - 13	*	GND	
P12 - 14	J12 - 07A	IN07-12	
P12 - 15	*	GND	
P12 - 16	J12 - 07C	IN08-12	
P12 - 17	*	GND	
P12 - 18	J12 - 09A	IN09-12	
P12 - 19	J12 - 12A	BSEL-12	
P12 - 20	J12 - 09C	IN10-12	
P12 - 21	*	GND	
P12 - 22	J12 - 10A	IN11-12	
P12 - 23	*	GND	
P12 - 24	J12 - 10C	IN12-12	
P12 - 25	J12 - 17C	OUT12D-12	
P12 - 26	J12 - 18A	OUT12C-12	
P12 - 27	J12 - 18C	OUT12B-12	
P12 - 28	J12 - 20A	OUT12A-12	
P12 - 29	*	GND	
P12 - 30	J12 - 20C	OUT11-12	
P12 - 31	*	GND	
P12 - 32	J12 - 21A	OUT10-12	
P12 - 33	*	GND	
P12 - 34	J12 - 21C	OUT09-12	
P12 - 35	*	GND	
P12 - 36	J12 - 23A	OUT08-12	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
P12 - 37	*	GND	
P12 - 38	J12 - 23C	OUT07-12	
P12 - 39	*	GND	
P12 - 40	J12 - 24A	OUT06-12	
P12 - 41	*	GND	
P12 - 42	J12 - 24C	OUT05-12	
P12 - 43	*	GND	
P12 - 44	J12 - 26A	OUT04-12	
P12 - 45	*	GND	
P12 - 46	J12 - 26C	OUT03-12	
P12 - 47	*	GND	
P12 - 48	J12 - 27A	OUT02-12	
P12 - 49	*	GND	
P12 - 50	J12 - 27C	OUT01-12	
P13 TO B400 DIGITAL CROSS CONNECT J39			
P13 - 01	*	GND	
P13 - 02	J13 - 03A	IN01-13	
P13 - 03	*	GND	
P13 - 04	J13 - 03C	IN02-13	
P13 - 05	*	GND	
P13 - 06	J13 - 04A	IN03-13	
P13 - 07	*	GND	
P13 - 08	J13 - 04C	IN04-13	
P13 - 09	*	GND	
P13 - 10	J13 - 06A	IN05-13	
P13 - 11	*	GND	
P13 - 12	J13 - 06C	IN06-13	
P13 - 13	*	GND	
P13 - 14	J13 - 07A	IN07-13	
P13 - 15	*	GND	
P13 - 16	J13 - 07C	IN08-13	
P13 - 17	*	GND	
P13 - 18	J13 - 09A	IN09-13	
P13 - 19	J13 - 12A	BSEL-13	
P13 - 20	J13 - 09C	IN10-13	
P13 - 21	*	GND	
P13 - 22	J13 - 10A	IN11-13	
P13 - 23	*	GND	
P13 - 24	J13 - 10C	IN12-13	
P13 - 25	J13 - 17C	OUT12D-13	
P13 - 26	J13 - 18A	OUT12C-13	
P13 - 27	J13 - 18C	OUT12B-13	
P13 - 28	J13 - 20A	OUT12A-13	
P13 - 29	*	GND	
P13 - 30	J13 - 20C	OUT11-13	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
P13 - 31	*	GND	
P13 - 32	J13 - 21A	OUT10-13	
P13 - 33	*	GND	
P13 - 34	J13 - 21C	OUT09-13	
P13 - 35	*	GND	
P13 - 36	J13 - 23A	OUT08-13	
P13 - 37	*	GND	
P13 - 38	J13 - 23C	OUT07-13	
P13 - 39	*	GND	
P13 - 40	J13 - 24A	OUT06-13	
P13 - 41	*	GND	
P13 - 42	J13 - 24C	OUT05-13	
P13 - 43	*	GND	
P13 - 44	J13 - 26A	OUT04-13	
P13 - 45	*	GND	
P13 - 46	J13 - 26C	OUT03-13	
P13 - 47	*	GND	
P13 - 48	J13 - 27A	OUT02-13	
P13 - 49	*	GND	
P13 - 50	J13 - 27C	OUT01-13	
P14 TO B400 DIGITAL CROSS CONNECT J40			
P14 - 01	*	GND	
P14 - 02	J14 - 03A	IN01-14	
P14 - 03	*	GND	
P14 - 04	J14 - 03C	IN02-14	
P14 - 05	*	GND	
P14 - 06	J14 - 04A	IN03-14	
P14 - 07	*	GND	
P14 - 08	J14 - 04C	IN04-14	
P14 - 09	*	GND	
P14 - 10	J14 - 06A	IN05-14	
P14 - 11	*	GND	
P14 - 12	J14 - 06C	IN06-14	
P14 - 13	*	GND	
P14 - 14	J14 - 07A	IN07-14	
P14 - 15	*	GND	
P14 - 16	J14 - 07C	IN08-14	
P14 - 17	*	GND	
P14 - 18	J14 - 09A	IN09-14	
P14 - 19	J14 - 12A	BSEL-14	
P14 - 20	J14 - 09C	IN10-14	
P14 - 21	*	GND	
P14 - 22	J14 - 10A	IN11-14	
P14 - 23	*	GND	
P14 - 24	J14 - 10C	IN12-14	

DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
P14 - 25	J14 - 17C	OUT12D-14	
P14 - 26	J14 - 18A	OUT12C-14	
P14 - 27	J14 - 18C	OUT12B-14	
P14 - 28	J14 - 20A	OUT12A-14	
P14 - 29	*	GND	
P14 - 30	J14 - 20C	OUT11-14	
P14 - 31	*	GND	
P14 - 32	J14 - 21A	OUT10-14	
P14 - 33	*	GND	
P14 - 34	J14 - 21C	OUT09-14	
P14 - 35	*	GND	
P14 - 36	J14 - 23A	OUT08-14	
P14 - 37	*	GND	
P14 - 38	J14 - 23C	OUT07-14	
P14 - 39	*	GND	
P14 - 40	J14 - 24A	OUT06-14	
P14 - 41	*	GND	
P14 - 42	J14 - 24C	OUT05-14	
P14 - 43	*	GND	
P14 - 44	J14 - 26A	OUT04-14	
P14 - 45	*	GND	
P14 - 46	J14 - 26C	OUT03-14	
P14 - 47	*	GND	
P14 - 48	J14 - 27A	OUT02-14	
P14 - 49	*	GND	
P14 - 50	J14 - 27C	OUT01-14	
P15 TO B400 DIGITAL CROSS CONNECT J41			
P15 - 01	*	GND	
P15 - 02	J15 - 03A	IN01-15	
P15 - 03	*	GND	
P15 - 04	J15 - 03C	IN02-15	
P15 - 05	*	GND	
P15 - 06	J15 - 04A	IN03-15	
P15 - 07	*	GND	
P15 - 08	J15 - 04C	IN04-15	
P15 - 09	*	GND	
P15 - 10	J15 - 06A	IN05-15	
P15 - 11	*	GND	
P15 - 12	J15 - 06C	IN06-15	
P15 - 13	*	GND	
P15 - 14	J15 - 07A	IN07-15	
P15 - 15	*	GND	
P15 - 16	J15 - 07C	IN08-15	
P15 - 17	*	GND	
P15 - 18	J15 - 09A	IN09-15	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
P15 - 19	J15 - 12A	BSEL-15	
P15 - 20	J15 - 09C	IN10-15	
P15 - 21	*	GND	
P15 - 22	J15 - 10A	IN11-15	
P15 - 23	*	GND	
P15 - 24	J15 - 10C	IN12-15	
P15 - 25	J15 - 17C	OUT12D-15	
P15 - 26	J15 - 18A	OUT12C-15	
P15 - 27	J15 - 18C	OUT12B-15	
P15 - 28	J15 - 20A	OUT12A-15	
P15 - 29	*	GND	
P15 - 30	J15 - 20C	OUT11-15	
P15 - 31	*	GND	
P15 - 32	J15 - 21A	OUT10-15	
P15 - 33	*	GND	
P15 - 34	J15 - 21C	OUT09-15	
P15 - 35	*	GND	
P15 - 36	J15 - 23A	OUT08-15	
P15 - 37	*	GND	
P15 - 38	J15 - 23C	OUT07-15	
P15 - 39	*	GND	
P15 - 40	J15 - 24A	OUT06-15	
P15 - 41	*	GND	
P15 - 42	J15 - 24C	OUT05-15	
P15 - 43	*	GND	
P15 - 44	J15 - 26A	OUT04-15	
P15 - 45	*	GND	
P15 - 46	J15 - 26C	OUT03-15	
P15 - 47	*	GND	
P15 - 48	J15 - 27A	OUT02-15	
P15 - 49	*	GND	
P15 - 50	J15 - 27C	OUT01-15	
P16 TO B400 DIGITAL CROSS CONNECT J42			
P16 - 01	*	GND	
P16 - 02	J16 - 03A	IN01-16	
P16 - 03	*	GND	
P16 - 04	J16 - 03C	IN02-16	
P16 - 05	*	GND	
P16 - 06	J16 - 04A	IN03-16	
P16 - 07	*	GND	
P16 - 08	J16 - 04C	IN04-16	
P16 - 09	*	GND	
P16 - 10	J16 - 06A	IN05-16	
P16 - 11	*	GND	
P16 - 12	J16 - 06C	IN06-16	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
P16 - 13	*	GND	
P16 - 14	J16 - 07A	IN07-16	
P16 - 15	*	GND	
P16 - 16	J16 - 07C	IN08-16	
P16 - 17	*	GND	
P16 - 18	J16 - 09A	IN09-16	
P16 - 19	J16 - 12A	BSEL-16	
P16 - 20	J16 - 09C	IN10-16	
P16 - 21	*	GND	
P16 - 22	J16 - 10A	IN11-16	
P16 - 23	*	GND	
P16 - 24	J16 - 10C	IN12-16	
P16 - 25		OUT120-16	
P16 - 26	J16 - 18A	OUT12C-16	
P16 - 27	J16 - 18C	OUT12B-16	
P16 - 28	J16 - 20A	OUT12A-16	
P16 - 29	*	GND	
P16 - 30	J16 - 20C	OUT11-16	
P16 - 31	*	GND	
P16 - 32	J16 - 21A	OUT10-16	
P16 - 33	*	GND	
P16 - 34	J16 - 21C	OUT09-16	
P16 - 35	*	GND	
P16 - 36	J16 - 23A	OUT08-16	
P16 - 37	*	GND	
P16 - 38	J16 - 23C	OUT07-16	
P16 - 39	*	GND	
P16 - 40	J16 - 24A	OUT06-16	
P16 - 41	*	GND	
P16 - 42	J16 - 24C	OUT05-16	
P16 - 43	*	GND	
P16 - 44	J16 - 26A	OUT04-16	
P16 - 45	*	GND	
P16 - 46	J16 - 26C	OUT03-16	
P16 - 47	*	GND	
P16 - 48	J16 - 27A	OUT02-16	
P16 - 49	*	GND	
P16 - 50	J16 - 27C	OUT01-16	
P17 TO B400 DIGITAL CROSS CONNECT J43			
P17 - 01	*	GND	
P17 - 02	J17 - 03A	IN01-17	
P17 - 03	*	GND	
P17 - 04	J17 - 03C	IN02-17	
P17 - 05	*	GND	
P17 - 06	J17 - 04A	IN03-17	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
P17 - 07	*	GND	
P17 - 08	J17 - 04C	IN04-17	
P17 - 09	*	GND	
P17 - 10	J17 - 06A	IN05-17	
P17 - 11	*	GND	
P17 - 12	J17 - 06C	IN06-17	
P17 - 13	*	GND	
P17 - 14	J17 - 07A	IN07-17	
P17 - 15	*	GND	
P17 - 16	J17 - 07C	IN08-17	
P17 - 17	*	GND	
P17 - 18	J17 - 09A	IN09-17	
P17 - 19	J17 - 12A	BSEL-17	
P17 - 20	J17 - 09C	IN10-17	
P17 - 21	*	GND	
P17 - 22	J17 - 10A	IN11-17	
P17 - 23	*	GND	
P17 - 24	J17 - 10C	IN12-17	
P17 - 25	J17 - 17C	OUT12D-17	
P17 - 26	J17 - 18A	OUT12C-17	
P17 - 27	J17 - 18C	OUT12B-17	
P17 - 28	J17 - 20A	OUT12A-17	
P17 - 29	*	GND	
P17 - 30	J17 - 20C	OUT11-17	
P17 - 31	*	GND	
P17 - 32	J17 - 21A	OUT10-17	
P17 - 33	*	GND	
P17 - 34	J17 - 21C	OUT09-17	
P17 - 35	*	GND	
P17 - 36	J17 - 23A	OUT08-17	
P17 - 37	*	GND	
P17 - 38	J17 - 23C	OUT07-17	
P17 - 39	*	GND	
P17 - 40	J17 - 24A	OUT06-17	
P17 - 41	*	GND	
P17 - 42	J17 - 24C	OUT05-17	
P17 - 43	*	GND	
P17 - 44	J17 - 26A	OUT04-17	
P17 - 45	*	GND	
P17 - 46	J17 - 26C	OUT03-17	
P17 - 47	*	GND	
P17 - 48	J17 - 27A	OUT02-17	
P17 - 49	*	GND	
P17 - 50	J17 - 27C	OUT01-17	

DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
P18 TO B400 DIGITAL CROSS CONNECT J44			
P18 - 01	*	GND	
P18 - 02	J18 - 03A	IN01-18	
P18 - 03	*	GND	
P18 - 04	J18 - 03C	IN02-18	
P18 - 05	*	GND	
P18 - 06	J18 - 04A	IN03-18	
P18 - 07	*	GND	
P18 - 08	J18 - 04C	IN04-18	
P18 - 09	*	GND	
P18 - 10	J18 - 06A	IN05-18	
P18 - 11	*	GND	
P18 - 12	J18 - 06C	IN06-18	
P18 - 13	*	GND	
P18 - 14	J18 - 07A	IN07-18	
P18 - 15	*	GND	
P18 - 16	J18 - 07C	IN08-18	
P18 - 17	*	GND	
P18 - 18	J18 - 09A	IN09-18	
P18 - 19	J18 - 12A	BSEL-18	
P18 - 20	J18 - 09C	IN10-18	
P18 - 21	*	GND	
P18 - 22	J18 - 10A	IN11-18	
P18 - 23	*	GND	
P18 - 24	J18 - 10C	IN12-18	
P18 - 25	J18 - 17C	OUT12D-18	
P18 - 26	J18 - 18A	OUT12C-18	
P18 - 27	J18 - 18C	OUT12B-18	
P18 - 28	J18 - 20A	OUT12A-18	
P18 - 29	*	GND	
P18 - 30	J18 - 20C	OUT11-18	
P18 - 31	*	GND	
P18 - 32	J18 - 21A	OUT10-18	
P18 - 33	*	GND	
P18 - 34	J18 - 21C	OUT09-18	
P18 - 35	*	GND	
P18 - 36	J18 - 23A	OUT08-18	
P18 - 37	*	GND	
P18 - 38	J18 - 23C	OUT07-18	
P18 - 39	*	GND	
P18 - 40	J18 - 24A	OUT06-18	
P18 - 41	*	GND	
P18 - 42	J18 - 24C	OUT05-18	
P18 - 43	*	GND	
P18 - 44	J18 - 26A	OUT04-18	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
P18 - 45	*	GND	
P18 - 46	J18 - 26C	OUT03-18	
P18 - 47	*	GND	
P18 - 48	J18 - 27A	OUT02-18	
P18 - 49	*	GND	
P18 - 50	J18 - 27C	OUT01-18	
P19 TO B400 DIGITAL CROSS CONNECT J45			
P19 - 01	*	GND	
P19 - 02	J19 - 03A	IN01-19	
P19 - 03	*	GND	
P19 - 04	J19 - 03C	IN02-19	
P19 - 05	*	GND	
P19 - 06	J19 - 04A	IN03-19	
P19 - 07	*	GND	
P19 - 08	J19 - 04C	IN04-19	
P19 - 09	*	GND	
P19 - 10	J19 - 06A	IN05-19	
P19 - 11	*	GND	
P19 - 12	J19 - 06C	IN06-19	
P19 - 13	*	GND	
P19 - 14	J19 - 07A	IN07-19	
P19 - 15	*	GND	
P19 - 16	J19 - 07C	IN08-19	
P19 - 17	*	GND	
P19 - 18	J19 - 09A	IN09-19	
P19 - 19	J19 - 12A	BSEL-19	
P19 - 20	J19 - 09C	IN10-19	
P19 - 21	*	GND	
P19 - 22	J19 - 10A	IN11-19	
P19 - 23	*	GND	
P19 - 24	J19 - 10C	IN12-19	
P19 - 25	J19 - 17C	OUT12D-19	
P19 - 26	J19 - 18A	OUT12C-19	
P19 - 27	J19 - 18C	OUT12B-19	
P19 - 28	J19 - 20A	OUT12A-19	
P19 - 29	*	GND	
P19 - 30	J19 - 20C	OUT11-19	
P19 - 31	*	GND	
P19 - 32	J19 - 21A	OUT10-19	
P19 - 33	*	GND	
P19 - 34	J19 - 21C	OUT09-19	
P19 - 35	*	GND	
P19 - 36	J19 - 23A	OUT08-19	
P19 - 37	*	GND	
P19 - 38	J19 - 23C	OUT07-19	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
P19 - 39	*	GND	
P19 - 40	J19 - 24A	OUT06-19	
P19 - 41	*	GND	
P19 - 42	J19 - 24C	OUT05-19	
P19 - 43	*	GND	
P19 - 44	J19 - 26A	OUT04-19	
P19 - 45	*	GND	
P19 - 46	J19 - 26C	OUT03-19	
P19 - 47	*	GND	
P19 - 48	J19 - 27A	OUT02-19	
P19 - 49	*	GND	
P19 - 50	J19 - 27C	OUT01-19	
P20 TO B400 DIGITAL CROSS CONNECT J46			
P20 - 01	*	GND	
P20 - 02	J20 - 03A	IN01-20	
P20 - 03	*	GND	
P20 - 04	J20 - 03C	IN02-20	
P20 - 05	*	GND	
P20 - 06	J20 - 04A	IN03-20	
P20 - 07	*	GND	
P20 - 08	J20 - 04C	IN04-20	
P20 - 09	*	GND	
P20 - 10	J20 - 06A	IN05-20	
P20 - 11	*	GND	
P20 - 12	J20 - 06C	IN06-20	
P20 - 13	*	GND	
P20 - 14	J20 - 07A	IN07-20	
P20 - 15	*	GND	
P20 - 16	J20 - 07C	IN08-20	
P20 - 17	*	GND	
P20 - 18	J20 - 09A	IN09-20	
P20 - 19	J20 - 12A	BSEL-20	
P20 - 20	J20 - 09C	IN10-20	
P20 - 21	*	GND	
P20 - 22	J20 - 10A	IN11-20	
P20 - 23	*	GND	
P20 - 24	J20 - 10C	IN12-20	
P20 - 25	J20 - 17C	OUT12D-20	
P20 - 26	J20 - 18A	OUT12C-20	
P20 - 27	J20 - 18C	OUT12B-20	
P20 - 28	J20 - 20A	OUT12A-20	
P20 - 29	*	GND	
P20 - 30	J20 - 20C	OUT11-20	
P20 - 31	*	GND	
P20 - 32	J20 - 21A	OUT10-20	

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DIGITAL DELAY BACKPLANE			
FROM	TO	FUNCTION	PUNCH BLOCK
P20 - 33	*	GND	
P20 - 34	J20 - 21C	OUT09-20	
P20 - 35	*	GND	
P20 - 36	J20 - 23A	OUT08-20	
P20 - 37	*	GND	
P20 - 38	J20 - 23C	OUT07-20	
P20 - 39	*	GND	
P20 - 40	J20 - 24A	OUT06-20	
P20 - 41	*	GND	
P20 - 42	J20 - 24C	OUT05-20	
P20 - 43	*	GND	
P20 - 44	J20 - 26A	OUT04-20	
P20 - 45	*	GND	
P20 - 46	J20 - 26C	OUT03-20	
P20 - 47	*	GND	
P20 - 48	J20 - 27A	OUT02-20	
P20 - 49	*	GND	
P20 - 50	J20 - 27C	OUT01-20	
TB1 - 01	F01 - 01	+5VIN	
F01 - 02			
TB1 - 02			
TB1 - 03			
TB1 - 04			
TB1 - 02	F01 - 01	+5VIN	
F01 - 02			
TB1 - 01			
TB1 - 03			
TB1 - 04			
TB1 - 03	F01 - 01	+5VIN	
	F01 - 02		
	TB1 - 01		
	TB1 - 02		
	TB1 - 04		
TB1 - 04	F01 - 01	+5VIN	
	F01 - 02		
	TB1 - 01		
	TB1 - 02		
	TB1 - 03		
TB1 - 05	*	GND	
TB1 - 06	*	GND	
TB1 - 09	*	GND	
TB1 - 12	*	GND	

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FUNCTION LIST

DIGITAL DELAY BACKPLANE/FUNCTION LIST REV. __	
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+5VIN	F01(01),F01(02),TB1(01),TB1(02), TB1(03),TB1(04);
BSEL-06	J06A(12),P06(19);
BSEL-07	J07A(12),P07(19);
BSEL-08	J08A(12),P08(19);
BSEL-09	J09A(12),P09(19);
BSEL-10	J10A(12),P10(19);
BSEL-11	J11A(12),P11(19);
BSEL-12	J12A(12),P12(19);
BSEL-13	J13A(12),P13(19);
BSEL-14	J14A(12),P14(19);
BSEL-15	J15A(12),P15(19);

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BSEL-16	J16A(12),P16(19);
BSEL-17	J17A(12),P17(19);
BSEL-18	J18A(12),P18(19);
BSEL-19	J19A(12),P19(19);
BSEL-20	J20A(12),P20(19);
BSEL-_1	J01A(12),P01(19);
BSEL-_2	J02A(12),P02(19);
BSEL-_3	J03A(12),P03(19);
BSEL-_4	J04A(12),P04(19);
BSEL-_5	J05A(12),P05(19);
GND	BD1(02),BD1(03),BD1(04),BD1(05),BD1(06), BD1(07),BD1(08),BD1(09),BD1(10),BD1(11), BD1(12),BD1(13),BD1(14),BD1(15),BD1(16), BD1(17),BD1(18),BD1(19),BD1(20),BD1(21), BD1(22),BD1(23),BD1(24),BD1(25),BD1(26), BD1(27),BD1(28),BD1(29),BD1(30),BD1(31), BD1(32),BD1(33),BD1(34),BD1(35),BD1(36), BD1(37),BD1(38),BD1(39),BD1(40),BD1(41), BD1(42),BD1(43),BD1(44),D01(02),J01A(02), J01C(02),J01A(05),J01C(05),J01A(08), J01C(08),J01A(11),J01C(11),J01A(13), J01C(13),J01A(16),J01C(16),J01A(19), J01C(19),J01A(22),J01C(22),J01A(25), J01C(25),J01A(31),J01C(31),J02A(02), J02C(02),J02A(05),J02C(05),J02A(08), J02C(08),J02A(11),J02C(11),J02A(13), J02C(13),J02A(16),J02C(16),J02A(19), J02C(19),J02A(22),J02C(22),J02A(25), J02C(25),J02A(31),J02C(31),J03A(02), J03C(02),J03A(05),J03C(05),J03A(08), J03C(08),J03A(11),J03C(11),J03A(13), J03C(13),J03A(16),J03C(16),J03A(19), J03C(19),J03A(22),J03C(22),J03A(25), J03C(25),J03A(31),J03C(31),J04A(02), J04C(02),J04A(05),J04C(05),J04A(08), J04C(08),J04A(11),J04C(11),J04A(13), J04C(13),J04A(16),J04C(16),J04A(19),

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P20(07),P20(09),P20(11),P20(13),P20(15),
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P20(33),P20(35),P20(37),P20(39),P20(41),
P20(43),P20(45),P20(47),P20(49),TB1(05),
TB1(06),TB1(09),TB1(12);

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J06A(03),P06(02);

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J07A(03),P07(02);

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J08A(03),P08(02);

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IN01-11	J11A(03),P11(02);	IN02-17	J17C(03),P17(04);
IN01-12	J12A(03),P12(02);	IN02-18	J18C(03),P18(04);
IN01-13	J13A(03),P13(02);	IN02-19	J19C(03),P19(04);
IN01-14	J14A(03),P14(02);	IN02-20	J20C(03),P20(04);
IN01-15	J15A(03),P15(02);	IN02-_1	J01C(03),P01(04);
IN01-16	J16A(03),P16(02);	IN02-_2	J02C(03),P02(04);
IN01-17	J17A(03),P17(02);	IN02-_3	J03C(03),P03(04);
IN01-18	J18A(03),P18(02);	IN02-_4	J04C(03),P04(04);
IN01-19	J19A(03),P19(02);	IN02-_5	J05C(03),P05(04);
IN01-20	J20A(03),P20(02);	IN03-06	J06A(04),P06(06);
IN01-_1	J01A(03),P01(02);	IN03-07	J07A(04),P07(06);
IN01-_2	J02A(03),P02(02);	IN03-08	J08A(04),P08(06);
IN01-_3	J03A(03),P03(02);	IN03-09	J09A(04),P09(06);
IN01-_4	J04A(03),P04(02);	IN03-10	J10A(04),P10(06);
IN01-_5	J05A(03),P05(02);	IN03-11	J11A(04),P11(06);
IN02-06	J06C(03),P06(04);	IN03-12	J12A(04),P12(06);
IN02-07	J07C(03),P07(04);	IN03-13	J13A(04),P13(06);
IN02-08	J08C(03),P08(04);	IN03-14	J14A(04),P14(06);
IN02-09	J09C(03),P09(04);	IN03-15	J15A(04),P15(06);
IN02-10	J10C(03),P10(04);	IN03-16	J16A(04),P16(06);
IN02-11	J11C(03),P11(04);	IN03-17	J17A(04),P17(06);
IN02-12	J12C(03),P12(04);	IN03-18	J18A(04),P18(06);
IN02-13	J13C(03),P13(04);	IN03-19	J19A(04),P19(06);
IN02-14	J14C(03),P14(04);	IN03-20	J20A(04),P20(06);
IN02-15	J15C(03),P15(04);	IN03-_1	J01A(04),P01(06);

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IN03-_2	J02A(04),P02(06);
IN03-_3	J03A(04),P03(06);
IN03-_4	J04A(04),P04(06);
IN03-_5	J05A(04),P05(06);
IN04-06	J06C(04),P06(08);
IN04-07	J07C(04),P07(08);
IN04-08	J08C(04),P08(08);
IN04-09	J09C(04),P09(08);
IN04-10	J10C(04),P10(08);
IN04-11	J11C(04),P11(08);
IN04-12	J12C(04),P12(08);
IN04-13	J13C(04),P13(08);
IN04-14	J14C(04),P14(08);
IN04-15	J15C(04),P15(08);
IN04-16	J16C(04),P16(08);
IN04-17	J17C(04),P17(08);
IN04-18	J18C(04),P18(08);
IN04-19	J19C(04),P19(08);
IN04-20	J20C(04),P20(08);
IN04-_1	J01C(04),P01(08);
IN04-_2	J02C(04),P02(08);
IN04-_3	J03C(04),P03(08);
IN04-_4	J04C(04),P04(08);
IN04-_5	J05C(04),P05(08);
IN05-06	J06A(06),P06(10);
IN05-07	J07A(06),P07(10);

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IN05-08	J08A(06),P08(10);
IN05-09	J09A(06),P09(10);
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IN05-11	J11A(06),P11(10);
IN05-12	J12A(06),P12(10);
IN05-13	J13A(06),P13(10);
IN05-14	J14A(06),P14(10);
IN05-15	J15A(06),P15(10);
IN05-16	J16A(06),P16(10);
IN05-17	J17A(06),P17(10);
IN05-18	J18A(06),P18(10);
IN05-19	J19A(06),P19(10);
IN05-20	J20A(06),P20(10);
IN05-_1	J01A(06),P01(10);
IN05-_2	J02A(06),P02(10);
IN05-_3	J03A(06),P03(10);
IN05-_4	J04A(06),P04(10);
IN05-_5	J05A(06),P05(10);
IN06-06	J06C(06),P06(12);
IN06-07	J07C(06),P07(12);
IN06-08	J08C(06),P08(12);
IN06-09	J09C(06),P09(12);
IN06-10	J10C(06),P10(12);
IN06-11	J11C(06),P11(12);
IN06-12	J12C(06),P12(12);
IN06-13	J13C(06),P13(12);

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IN06-14	J14C(06),P14(12);	IN07-20	J20A(07),P20(14);
IN06-15	J15C(06),P15(12);	IN07-_1	J01A(07),P01(14);
IN06-16	J16C(06),P16(12);	IN07-_2	J02A(07),P02(14);
IN06-17	J17C(06),P17(12);	IN07-_3	J03A(07),P03(14);
IN06-18	J18C(06),P18(12);	IN07-_4	J04A(07),P04(14);
IN06-19	J19C(06),P19(12);	IN07-_5	J05A(07),P05(14);
IN06-20	J20C(06),P20(12);	IN08-06	J06C(07),P06(16);
IN06-_1	J01C(06),P01(12);	IN08-07	J07C(07),P07(16);
IN06-_2	J02C(06),P02(12);	IN08-08	J08C(07),P08(16);
IN06-_3	J03C(06),P03(12);	IN08-09	J09C(07),P09(16);
IN06-_4	J04C(06),P04(12);	IN08-10	J10C(07),P10(16);
IN06-_5	J05C(06),P05(12);	IN08-11	J11C(07),P11(16);
IN07-06	J06A(07),P06(14);	IN08-12	J12C(07),P12(16);
IN07-07	J07A(07),P07(14);	IN08-13	J13C(07),P13(16);
IN07-08	J08A(07),P08(14);	IN08-14	J14C(07),P14(16);
IN07-09	J09A(07),P09(14);	IN08-15	J15C(07),P15(16);
IN07-10	J10A(07),P10(14);	IN08-16	J16C(07),P16(16);
IN07-11	J11A(07),P11(14);	IN08-17	J17C(07),P17(16);
IN07-12	J12A(07),P12(14);	IN08-18	J18C(07),P18(16);
IN07-13	J13A(07),P13(14);	IN08-19	J19C(07),P19(16);
IN07-14	J14A(07),P14(14);	IN08-20	J20C(07),P20(16);
IN07-15	J15A(07),P15(14);	IN08-_1	J01C(07),P01(16);
IN07-16	J16A(07),P16(14);	IN08-_2	J02C(07),P02(16);
IN07-17	J17A(07),P17(14);	IN08-_3	J03C(07),P03(16);
IN07-18	J18A(07),P18(14);	IN08-_4	J04C(07),P04(16);
IN07-19	J19A(07),P19(14);	IN08-_5	J05C(07),P05(16);

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IN09-07	J07A(09),P07(18);
IN09-08	J08A(09),P08(18);
IN09-09	J09A(09),P09(18);
IN09-10	J10A(09),P10(18);
IN09-11	J11A(09),P11(18);
IN09-12	J12A(09),P12(18);
IN09-13	J13A(09),P13(18);
IN09-14	J14A(09),P14(18);
IN09-15	J15A(09),P15(18);
IN09-16	J16A(09),P16(18);
IN09-17	J17A(09),P17(18);
IN09-18	J18A(09),P18(18);
IN09-19	J19A(09),P19(18);
IN09-20	J20A(09),P20(18);
IN09-_1	J01A(09),P01(18);
IN09-_2	J02A(09),P02(18);
IN09-_3	J03A(09),P03(18);
IN09-_4	J04A(09),P04(18);
IN09-_5	J05A(09),P05(18);
IN10-06	J06C(09),P06(20);
IN10-07	J07C(09),P07(20);
IN10-08	J08C(09),P08(20);
IN10-09	J09C(09),P09(20);
IN10-10	J10C(09),P10(20);
IN10-11	J11C(09),P11(20);

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IN10-13	J13C(09),P13(20);
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IN10-16	J16C(09),P16(20);
IN10-17	J17C(09),P17(20);
IN10-18	J18C(09),P18(20);
IN10-19	J19C(09),P19(20);
IN10-20	J20C(09),P20(20);
IN10-_1	J01C(09),P01(20);
IN10-_2	J02C(09),P02(20);
IN10-_3	J03C(09),P03(20);
IN10-_4	J04C(09),P04(20);
IN10-_5	J05C(09),P05(20);
IN11-06	J06A(10),P06(22);
IN11-07	J07A(10),P07(22);
IN11-08	J08A(10),P08(22);
IN11-09	J09A(10),P09(22);
IN11-10	J10A(10),P10(22);
IN11-11	J11A(10),P11(22);
IN11-12	J12A(10),P12(22);
IN11-13	J13A(10),P13(22);
IN11-14	J14A(10),P14(22);
IN11-15	J15A(10),P15(22);
IN11-16	J16A(10),P16(22);
IN11-17	J17A(10),P17(22);

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IN11-18	J18A(10),P18(22);	IN12-_4	J04C(10),P04(24);
IN11-19	J19A(10),P19(22);	IN12-_5	J05C(10),P05(24);
IN11-20	J20A(10),P20(22);	OUT01-06	J06C(27),P06(50);
IN11-_1	J01A(10),P01(22);	OUT01-07	J07C(27),P07(50);
IN11-_2	J02A(10),P02(22);	OUT01-08	J08C(27),P08(50);
IN11-_3	J03A(10),P03(22);	OUT01-09	J09C(27),P09(50);
IN11-_4	J04A(10),P04(22);	OUT01-10	J10C(27),P10(50);
IN11-_5	J05A(10),P05(22);	OUT01-11	J11C(27),P11(50);
IN12-06	J06C(10),P06(24);	OUT01-12	J12C(27),P12(50);
IN12-07	J07C(10),P07(24);	OUT01-13	J13C(27),P13(50);
IN12-08	J08C(10),P08(24);	OUT01-14	J14C(27),P14(50);
IN12-09	J09C(10),P09(24);	OUT01-15	J15C(27),P15(50);
IN12-10	J10C(10),P10(24);	OUT01-16	J16C(27),P16(50);
IN12-11	J11C(10),P11(24);	OUT01-17	J17C(27),P17(50);
IN12-12	J12C(10),P12(24);	OUT01-18	J18C(27),P18(50);
IN12-13	J13C(10),P13(24);	OUT01-19	J19C(27),P19(50);
IN12-14	J14C(10),P14(24);	OUT01-20	J20C(27),P20(50);
IN12-15	J15C(10),P15(24);	OUT01-_1	J01C(27),P01(50);
IN12-16	J16C(10),P16(24);	OUT01-_2	J02C(27),P02(50);
IN12-17	J17C(10),P17(24);	OUT01-_3	J03C(27),P03(50);
IN12-18	J18C(10),P18(24);	OUT01-_4	J04C(27),P04(50);
IN12-19	J19C(10),P19(24);	OUT01-_5	J05C(27),P05(50);
IN12-20	J20C(10),P20(24);	OUT02-06	J06A(27),P06(48);
IN12-_1	J01C(10),P01(24);	OUT02-07	J07A(27),P07(48);
IN12-_2	J02C(10),P02(24);	OUT02-08	J08A(27),P08(48);
IN12-_3	J03C(10),P03(24);	OUT02-09	J09A(27),P09(48);

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OUT02-10	J10A(27),P10(48);
OUT02-11	J11A(27),P11(48);
OUT02-12	J12A(27),P12(48);
OUT02-13	J13A(27),P13(48);
OUT02-14	J14A(27),P14(48);
OUT02-15	J15A(27),P15(48);
OUT02-16	J16A(27),P16(48);
OUT02-17	J17A(27),P17(48);
OUT02-18	J18A(27),P18(48);
OUT02-19	J19A(27),P19(48);
OUT02-20	J20A(27),P20(48);
OUT02-_1	J01A(27),P01(48);
OUT02-_2	J02A(27),P02(48);
OUT02-_3	J03A(27),P03(48);
OUT02-_4	J04A(27),P04(48);
OUT02-_5	J05A(27),P05(48);
OUT03-06	J06C(26),P06(46);
OUT03-07	J07C(26),P07(46);
OUT03-08	J08C(26),P08(46);
OUT03-09	J09C(26),P09(46);
OUT03-10	J10C(26),P10(46);
OUT03-11	J11C(26),P11(46);
OUT03-12	J12C(26),P12(46);
OUT03-13	J13C(26),P13(46);
OUT03-14	J14C(26),P14(46);
OUT03-15	J15C(26),P15(46);

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OUT03-16	J16C(26),P16(46);
OUT03-17	J17C(26),P17(46);
OUT03-18	J18C(26),P18(46);
OUT03-19	J19C(26),P19(46);
OUT03-20	J20C(26),P20(46);
OUT03-_1	J01C(26),P01(46);
OUT03-_2	J02C(26),P02(46);
OUT03-_3	J03C(26),P03(46);
OUT03-_4	J04C(26),P04(46);
OUT03-_5	J05C(26),P05(46);
OUT04-06	J06A(26),P06(44);
OUT04-07	J07A(26),P07(44);
OUT04-08	J08A(26),P08(44);
OUT04-09	J09A(26),P09(44);
OUT04-10	J10A(26),P10(44);
OUT04-11	J11A(26),P11(44);
OUT04-12	J12A(26),P12(44);
OUT04-13	J13A(26),P13(44);
OUT04-14	J14A(26),P14(44);
OUT04-15	J15A(26),P15(44);
OUT04-16	J16A(26),P16(44);
OUT04-17	J17A(26),P17(44);
OUT04-18	J18A(26),P18(44);
OUT04-19	J19A(26),P19(44);
OUT04-20	J20A(26),P20(44);
OUT04-_1	J01A(26),P01(44);

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OUT04-_3	J03A(26),P03(44);	OUT06-09	J09A(24),P09(40);
OUT04-_4	J04A(26),P04(44);	OUT06-10	J10A(24),P10(40);
OUT04-_5	J05A(26),P05(44);	OUT06-11	J11A(24),P11(40);
OUT05-06	J06C(24),P06(42);	OUT06-12	J12A(24),P12(40);
OUT05-07	J07C(24),P07(42);	OUT06-13	J13A(24),P13(40);
OUT05-08	J08C(24),P08(42);	OUT06-14	J14A(24),P14(40);
OUT05-09	J09C(24),P09(42);	OUT06-15	J15A(24),P15(40);
OUT05-10	J10C(24),P10(42);	OUT06-16	J16A(24),P16(40);
OUT05-11	J11C(24),P11(42);	OUT06-17	J17A(24),P17(40);
OUT05-12	J12C(24),P12(42);	OUT06-18	J18A(24),P18(40);
OUT05-13	J13C(24),P13(42);	OUT06-19	J19A(24),P19(40);
OUT05-14	J14C(24),P14(42);	OUT06-20	J20A(24),P20(40);
OUT05-15	J15C(24),P15(42);	OUT06-_1	J01A(24),P01(40);
OUT05-16	J16C(24),P16(42);	OUT06-_2	J02A(24),P02(40);
OUT05-17	J17C(24),P17(42);	OUT06-_3	J03A(24),P03(40);
OUT05-18	J18C(24),P18(42);	OUT06-_4	J04A(24),P04(40);
OUT05-19	J19C(24),P19(42);	OUT06-_5	J05A(24),P05(40);
OUT05-20	J20C(24),P20(42);	OUT07-06	J06C(23),P06(38);
OUT05-_1	J01C(24),P01(42);	OUT07-07	J07C(23),P07(38);
OUT05-_2	J02C(24),P02(42);	OUT07-08	J08C(23),P08(38);
OUT05-_3	J03C(24),P03(42);	OUT07-09	J09C(23),P09(38);
OUT05-_4	J04C(24),P04(42);	OUT07-10	J10C(23),P10(38);
OUT05-_5	J05C(24),P05(42);	OUT07-11	J11C(23),P11(38);
OUT06-06	J06A(24),P06(40);	OUT07-12	J12C(23),P12(38);
OUT06-07	J07A(24),P07(40);	OUT07-13	J13C(23),P13(38);

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OUT07-14	J14C(23),P14(38);
OUT07-15	J15C(23),P15(38);
OUT07-16	J16C(23),P16(38);
OUT07-17	J17C(23),P17(38);
OUT07-18	J18C(23),P18(38);
OUT07-19	J19C(23),P19(38);
OUT07-20	J20C(23),P20(38);
OUT07-_1	J01C(23),P01(38);
OUT07-_2	J02C(23),P02(38);
OUT07-_3	J03C(23),P03(38);
OUT07-_4	J04C(23),P04(38);
OUT07-_5	J05C(23),P05(38);
OUT08-06	J06A(23),P06(36);
OUT08-07	J07A(23),P07(36);
OUT08-08	J08A(23),P08(36);
OUT08-09	J09A(23),P09(36);
OUT08-10	J10A(23),P10(36);
OUT08-11	J11A(23),P11(36);
OUT08-12	J12A(23),P12(36);
OUT08-13	J13A(23),P13(36);
OUT08-14	J14A(23),P14(36);
OUT08-15	J15A(23),P15(36);
OUT08-16	J16A(23),P16(36);
OUT08-17	J17A(23),P17(36);
OUT08-18	J18A(23),P18(36);
OUT08-19	J19A(23),P19(36);

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OUT08-20	J20A(23),P20(36);
OUT08-_1	J01A(23),P01(36);
OUT08-_2	J02A(23),P02(36);
OUT08-_3	J03A(23),P03(36);
OUT08-_4	J04A(23),P04(36);
OUT08-_5	J05A(23),P05(36);
OUT09-06	J06C(21),P06(34);
OUT09-07	J07C(21),P07(34);
OUT09-08	J08C(21),P08(34);
OUT09-09	J09C(21),P09(34);
OUT09-10	J10C(21),P10(34);
OUT09-11	J11C(21),P11(34);
OUT09-12	J12C(21),P12(34);
OUT09-13	J13C(21),P13(34);
OUT09-14	J14C(21),P14(34);
OUT09-15	J15C(21),P15(34);
OUT09-16	J16C(21),P16(34);
OUT09-17	J17C(21),P17(34);
OUT09-18	J18C(21),P18(34);
OUT09-19	J19C(21),P19(34);
OUT09-20	J20C(21),P20(34);
OUT09-_1	J01C(21),P01(34);
OUT09-_2	J02C(21),P02(34);
OUT09-_3	J03C(21),P03(34);
OUT09-_4	J04C(21),P04(34);
OUT09-_5	J05C(21),P05(34);

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OUT10-06	J06A(21),P06(32);	OUT11-12	J12C(20),P12(30);
OUT10-07	J07A(21),P07(32);	OUT11-13	J13C(20),P13(30);
OUT10-08	J08A(21),P08(32);	OUT11-14	J14C(20),P14(30);
OUT10-09	J09A(21),P09(32);	OUT11-15	J15C(20),P15(30);
OUT10-10	J10A(21),P10(32);	OUT11-16	J16C(20),P16(30);
OUT10-11	J11A(21),P11(32);	OUT11-17	J17C(20),P17(30);
OUT10-12	J12A(21),P12(32);	OUT11-18	J18C(20),P18(30);
OUT10-13	J13A(21),P13(32);	OUT11-19	J19C(20),P19(30);
OUT10-14	J14A(21),P14(32);	OUT11-20	J20C(20),P20(30);
OUT10-15	J15A(21),P15(32);	OUT11-_1	J01C(20),P01(30);
OUT10-16	J16A(21),P16(32);	OUT11-_2	J02C(20),P02(30);
OUT10-17	J17A(21),P17(32);	OUT11-_3	J03C(20),P03(30);
OUT10-18	J18A(21),P18(32);	OUT11-_4	J04C(20),P04(30);
OUT10-19	J19A(21),P19(32);	OUT11-_5	J05C(20),P05(30);
OUT10-20	J20A(21),P20(32);	OUT12A-06	J06A(20),P06(28);
OUT10-_1	J01A(21),P01(32);	OUT12A-07	J07A(20),P07(28);
OUT10-_2	J02A(21),P02(32);	OUT12A-08	J08A(20),P08(28);
OUT10-_3	J03A(21),P03(32);	OUT12A-09	J09A(20),P09(28);
OUT10-_4	J04A(21),P04(32);	OUT12A-10	J10A(20),P10(28);
OUT10-_5	J05A(21),P05(32);	OUT12A-11	J11A(20),P11(28);
OUT11-06	J06C(20),P06(30);	OUT12A-12	J12A(20),P12(28);
OUT11-07	J07C(20),P07(30);	OUT12A-13	J13A(20),P13(28);
OUT11-08	J08C(20),P08(30);	OUT12A-14	J14A(20),P14(28);
OUT11-09	J09C(20),P09(30);	OUT12A-15	J15A(20),P15(28);
OUT11-10	J10C(20),P10(30);	OUT12A-16	J16A(20),P16(28);
OUT11-11	J11C(20),P11(30);	OUT12A-17	J17A(20),P17(28);

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OUT12A-18	J18A(20),P18(28);
OUT12A-19	J19A(20),P19(28);
OUT12A-20	J20A(20),P20(28);
OUT12A-_1	J01A(20),P01(28);
OUT12A-_2	J02A(20),P02(28);
OUT12A-_3	J03A(20),P03(28);
OUT12A-_4	J04A(20),P04(28);
OUT12A-_5	J05A(20),P05(28);
OUT12B-06	J06C(18),P06(27);
OUT12B-07	J07C(18),P07(27);
OUT12B-08	J08C(18),P08(27);
OUT12B-09	J09C(18),P09(27);
OUT12B-10	J10C(18),P10(27);
OUT12B-11	J11C(18),P11(27);
OUT12B-12	J12C(18),P12(27);
OUT12B-13	J13C(18),P13(27);
OUT12B-14	J14C(18),P14(27);
OUT12B-15	J15C(18),P15(27);
OUT12B-16	J16C(18),P16(27);
OUT12B-17	J17C(18),P17(27);
OUT12B-18	J18C(18),P18(27);
OUT12B-19	J19C(18),P19(27);
OUT12B-20	J20C(18),P20(27);
OUT12B-_1	J01C(18),P01(27);
OUT12B-_2	J02C(18),P02(27);
OUT12B-_3	J03C(18),P03(27);

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OUT12B-_4	J04C(18),P04(27);
OUT12B-_5	J05C(18),P05(27);
OUT12C-06	J06A(18),P06(26);
OUT12C-07	J07A(18),P07(26);
OUT12C-08	J08A(18),P08(26);
OUT12C-09	J09A(18),P09(26);
OUT12C-10	J10A(18),P10(26);
OUT12C-11	J11A(18),P11(26);
OUT12C-12	J12A(18),P12(26);
OUT12C-13	J13A(18),P13(26);
OUT12C-14	J14A(18),P14(26);
OUT12C-15	J15A(18),P15(26);
OUT12C-16	J16A(18),P16(26);
OUT12C-17	J17A(18),P17(26);
OUT12C-18	J18A(18),P18(26);
OUT12C-19	J19A(18),P19(26);
OUT12C-20	J20A(18),P20(26);
OUT12C-_1	J01A(18),P01(26);
OUT12C-_2	J02A(18),P02(26);
OUT12C-_3	J03A(18),P03(26);
OUT12C-_4	J04A(18),P04(26);
OUT12C-_5	J05A(18),P05(26);
OUT12D-06	J06C(17),P06(25);
OUT12D-07	J07C(17),P07(25);
OUT12D-08	J08C(17),P08(25);
OUT12D-09	J09C(17),P09(25);

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OUT12D-10	J10C(17),P10(25);
OUT12D-11	J11C(17),P11(25);
OUT12D-12	J12C(17),P12(25);
OUT12D-13	J13C(17),P13(25);
OUT12D-14	J14C(17),P14(25);
OUT12D-15	J15C(17),P15(25);
OUT12D-17	J17C(17),P17(25);
OUT12D-18	J18C(17),P18(25);
OUT12D-19	J19C(17),P19(25);
OUT12D-20	J20C(17),P20(25);
OUT12D-_1	J01C(17),P01(25);
OUT12D-_2	J02C(17),P02(25);
OUT12D-_3	J03C(17),P03(25);
OUT12D-_4	J04C(17),P04(25);
OUT12D-_5	J05C(17),P05(25);