









### Digital I/O Board (pg 3 of 8) Connector Pin Callouts

Digital I/O (Dig I/O) to Display

From Dig I/O Bd	To Display	Remarks
J6 - 1	CN1 - 1	D7
J6 - 2	CN1 - 2	DGND
J6 - 3	CN1 - 3	D6
J6 - 4	CN1 - 4	DGND
J6 - 5	CN1 - 5	D5
J6 - 6	CN1 - 6	DGND
J6 - 7	CN1 - 7	D4
J6 - 8	CN1 - 8	DGND
J6 - 9	CN1 - 9	D3
J6 - 10	CN1 - 10	DGND
J6 - 11	CN1 - 11	D2

### Digital I/O to Display (cont)

From Dig I/O Bd	To Display	Remarks
J6 - 12	CN1 - 12	DGND
J6 - 13	CN1 - 13	D1
J6 - 14	CN1 - 14	DGND
J6 - 15	CN1 - 15	D0
J6 - 16	CN1 - 16	DGND
J6 - 17	CN1 - 17	IOW
J6 - 18	CN1 - 18	DGND
J6 - 19	CN1 - 19	NC
J6 - 20	CN1 - 20	DGND
J6 - 21	CN1 - 21	NC
J6 - 22	CN1 - 22	DGND

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## Digital I/O Board (pg 4 of 8) Connector Pin Callouts (cont)

Digital I/O to Display (cont)

From Dig I/O Bd	To Display	Remarks
J6 - 23	CN1 - 23	DISPLAY CS
J6 - 24	CN1 - 24	DGND
J6 - 25	CN1 - 25	NC
J6 - 26	CN1 - 26	DGND
J6 - 27	CN1 - 27	BUSY
J6 - 28	CN1 - 28	DGND
J6 - 29	CN1 - 29	NC
J6 - 30	CN1 - 30	DGND
J6 - 31	CN1 - 31	NC
J6 - 32	CN1 - 32	DGND
J6 - 33	CN1 - 33	NC
J6 - 34	CN1 - 34	DGND

# Digital I/O to Keyboard

From Dig I/O Bd	To Keyboard	Remarks
J7 - 1	KEYB - 1	NC
J7 - 2	KEYB - 2	NC
J7 - 3	KEYB - 3	NC
J7 - 4	KEYB - 4	NC
J7 - 5	KEYB - 5	NC
J7 - 6	KEYB - 6	NC
J7 - 7	KEYB - 7	NC
J7 - 8	KEYB - 8	(S) ARROW1
J7 - 9	KEYB - 9	(R) ARROW1
J7 - 10	KEYB - 10	(S) ARROW2
J7 - 11	KEYB - 11	(R) ARROW2
J7 - 12	KEYB - 12	(S) ARROW3

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### Digital I/O Board (pg 5 of 8) Connector Pin Callouts (cont)

Digital I/O to Keyboard (cont)

From Dig I/O Bd	To Keyboard	Remarks
J7 - 13	KEYB - 13	(R) ARROW3
J7 - 14	KEYB - 14	(S) ARROW4
J7 - 15	KEYB - 15	(R) ARROW4
J7 - 16	KEYB - 16	(S) RUN
J7 - 17	KEYB - 17	(R) RUN
J7 - 18	KEYB - 18	(S) CAL
J7 - 19	KEYB - 19	(R) CAL
J7 - 20	KEYB - 20	(S) MODE1
J7 - 21	KEYB - 21	(R) MODE1
J7 - 22	KEYB - 22	(S) MODE2
J7 - 23	KEYB - 23	(R) MODE2

Digital I/O to Keyboard (cont)

From Dig I/O Bd	To Keyboard	Remarks
J7 - 24	KEYB - 24	KY2
J7 - 25	KEYB - 25	KX3
J7 - 26	KEYB - 26	KX1
J7 - 27	KEYB - 27	KY6
J7 - 28	KEYB - 28	KY5
J7 - 29	KEYB - 29	KY0
J7 - 30	KEYB - 30	KX0
J7 - 31	KEYB - 31	KY1
J7 - 32	KEYB - 32	KX2
J7 - 33	KEYB - 33	KY3
J7 - 34	KEYB - 34	KY4

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### Digital I/O Board (pg 6 of 8) Connector Pin Callouts (cont)

#### **Digital I/O to Motor Driver**

From	To Motor	Remarks
Dig I/O	Driver	
J3 - 1	P1 - 1	DGND
J3 - 2	P1 - 2	DIGCONN
J3 - 3	P1 - 3	R-Boom Home Sense
J3 - 4	P1 - 4	DGND
J3 - 5	P1 - 5	Spare Home Sensor
J3 - 6	P1 - 6	DGND
J3 - 7	P1 - 7	Carousel Home Sensor
J3 - 8	P1 - 8	DGND
J3 - 9	P1 - 9	Z-Boom Home Sense
J3 - 10	P1 - 10	DGND

## Digital I/O to Motor Driver (cont)

From	To Motor	Remarks
Dig I/O	Driver	
J3 - 11	P1 - 11	Valve B Home Sense
J3 - 12	P1 - 12	DGND
J3 - 13	P1 - 13	Valve A Home Sense
J3 - 14	P1 - 14	DGND
J3 - 15	P1 - 15	Left Syringe Home Sense
J3 - 16	P1 - 16	DGND
J3 - 17	P1 - 17	Right Syringe Home Sense
J3 - 18	P1 - 18	DGND
J3 - 19	P1 - 19	DGND
J3 - 20	P1 - 20	DGND
J3 - 21	P1 - 21	DIR3

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## Digital I/O Board (pg 7 of 8) **Connector Pin Callouts (cont)**

Digital I/O to Motor Driver (cont)

From Dig I/O	To Motor Driver	Remarks
J3 - 22	P1 - 22	DIR2
J3 - 23	P1 - 23	DIR1
J3 - 24	P1 - 24	DIR0
J3 - 25	P1 - 25	NC
J3 - 26	P1 - 26	NC
J3 - 27	P1 - 27	HALF/FULL2
J3 - 28	P1 - 28	MSEL2
J3 - 29	P1 - 29	PULSE2
J3 - 30	P1 - 30	FULL PWR2
J3 - 31	P1 - 31	DGND

### Digital I/O to Motor Driver (cont)

From Dig I/O	To Motor Driver	Remarks
J3 - 32	P1 - 32	DGND
J3 - 33	P1 - 33	HALF/FULL3
J3 - 34	P1 - 34	MSEL3
J3 - 35	P1 - 35	PULSE3
J3 - 36	P1 - 36	FULL-PWR3
J3 - 37	P1 - 37	DGND
J3 - 38	P1 - 38	DGND
J3 - 39	P1 - 39	HALF/FULL0
J3 - 40	P1 - 40	MSEL0
J3 - 41	P1 - 41	PULSE0

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A - 22 Digital I/O Board

### Digital I/O Board (pg 8 of 8) Connector Pin Callouts (cont)

### Digital I/O to Motor Driver (cont)

From	To Motor	Remarks
Dig I/O	Driver	
J3 - 42	P1 - 42	FULL PWR0
J3 - 43	P1 - 43	DGND
J3 - 44	P1 - 44	DGND
J3 - 45	P1 - 45	MSEL1
J3 - 46	P1 - 46	FULL PWR1
J3 - 47	P1 - 47	HALF/FULL1
J3 - 48	P1 - 48	PULSE1
J3 - 49	P1 - 49	Beeper
J3 - 50	P1 - 50	DGND
J3 - 51	P1 - 51	AH-CNTRL

#### Digital I/O to Motor Driver (cont)

From	To Motor	Remarks
Dig I/O	Driver	
J3 - 52	P1 - 52	MAIN DOOR1
J3 - 53	P1 - 53	OH-CNTRL
J3 - 54	P1 - 54	Heater#1 (spare)
J3 - 55	P1 - 55	Reagent Pack Heater
J3 - 56	P1 - 56	POR /OR CALLED INIT
J3 - 57	P1 - 57	LH-CNTRL
J3 - 58	P1 - 58	LOCKUP /OR WATCHDOG
J3 - 59	P1 - 59	DOOR2
J3 - 60	P1 - 60	TIMER INTERRUPT

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