

iControl® 2 Opto-Input Interface Card Replacement

This instruction sheet is to help guide the procedure needed to replace the iControl® 2 opto-input interface card.



WARNING: Allow only qualified personnel to perform the following tasks. Follow the safety instructions in this document and all other related documentation.



WARNING: Shut off all power to the system before beginning any procedures.

Removing Interface Card

- 1. See Figure 1. Disconnect the 25 conductor cable wiring at interface card. Also disconnect the "conveyor interlock" wiring from input 16 thru 19 of the interface card.
- 2. Disconnect the ribbon cable from the interface card and the computer. Discard the ribbon cable.
- 3. Remove the four screws (1) securing the interface card. Save the screws to install the new interface card.

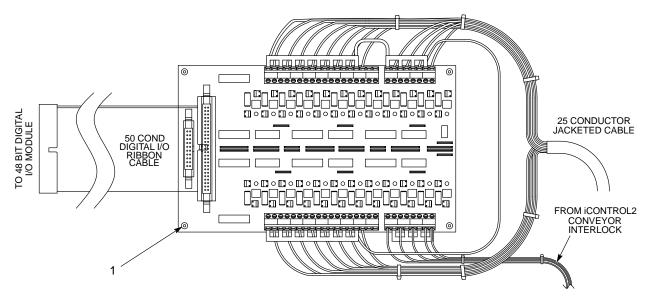


Figure 1 Old Interface Card with Wiring and Ribbon Cable Connections

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Installing New Interface Card

1. See Figure 2. Install the new interface card using the same four screws from the removal procedure.



CAUTION: Plugging in a ribbon cable the wrong way may damage the cable or circuit boards when power is applied. Reversing the ribbon cable polarity of the cable from the iControl computer to the interface card will cause catastrophic failure of the iControl unit. Make sure the cables are connected correctly. The ribbon cables are keyed so that they can only be plugged in one way.

2. The new ribbon cable has a red or blue tracer that designates the pin 1 side of the cable. Plug the cable into the interface card with the tracer aligned with pin 1 on the board. Pin 1 is designated by a 1 printed on the interface card and a square on the computer.

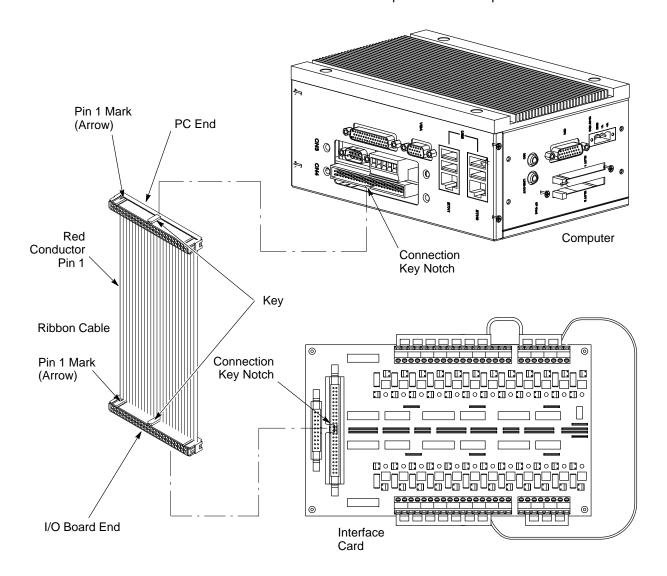


Figure 2 Computer and Interface Card Cable Connections

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Installing New Interface Card (conta)

3. Refer to Table 1 with Figure 3 to complete wiring to the interface card. Reconnect the wires of the 25 conductor cable and Table 2 to connect internally to the iControl 2 for the "Conveyor Interlock".

Table 1 iControl Discrete Input Cable Color Code Assignments

CABLE COLOR	INPUT BOARD TERMINAL	FIELD TERMINAL NUMBER	FUNCTION	NOTE
BLK	8 LO	1	ZONE 1	
WHT	9 LO	2	ZONE 2	
GRN	10 LO	3	ZONE 3	
ORG	11 LO	4	ZONE 4	
BLU	12 LO	5	ZONE 5	
WHT/BLK	13 LO	6	ZONE 6	
RED/BLK	14 LO	7	ZONE 7	
GRN/BLK	15 LO	8	ZONE 8	
ORG/BLK	20 LO	9	PART ID bit 1	
BLU/BLK	21 LO	10	PART ID bit 2	
BLK/WHT	22 LO	11	PART ID bit 3	
RED/WHT	23 LO	12	PART ID bit 4	
GRN/WHT	0 LO	13	PART ID bit 5	
BLU/WHT	1 LO	14	PART ID bit 6	
BLK/RED	2 LO	15	PART ID bit 7	
WHT/RED	3 LO	16	PART ID bit 8	
ORG/RED	4 LO	17	TRIGGER BK 0	
BLU/RED	5 LO	18	TRIGGER BK 1	
RED/GRN	6 LO	19	TRIGGER SEL	
ORG/GRN	7 LO	20	ENCODER A	
	N/C	21		
	N/C	22		
	N/C	23		
RED	8 HI	24	+24 Vdc	
BLK/WHT/RED				
WHT/BLK/RED				
RED/BLK/WHT				
GRN/BLK/WHT				

Table 2 iControl Conveyor Interlock Color Code Assignments

WIRE COLOR	INPUT BOARD TERMINAL	FUNCTION
WHITE	16 HI	LOCKOUT
GREY	17 HI	GUN PWR OK
VIOLET	18 HI	MANUAL MODE
BROWN	19 HI	CONVEYOR
BLACK	19 LO	DCOM

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Installing New Interface Card (contd)

4. Use Figure 3 and 4 to configure jumpers and comb jumpers.

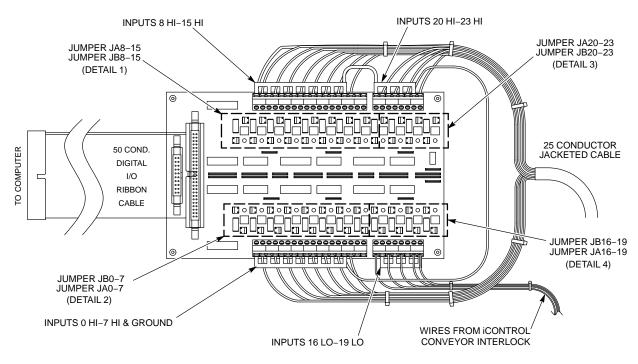


Figure 3 New Interface Card with Wiring and Ribbon Cable Connections

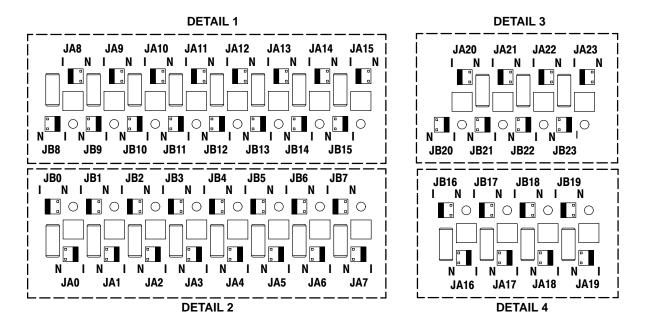


Figure 4 Jumper Detail

Jumper	Position	Jumper	Position
JA8 – JA15, JB8 – JB15	I	JA20 – JA23, JB20 – JB23	I
JB0 – JB7, JA0 – JA7	1	JB16 – JB19, JA16 – JA19	I

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Configure iControl 2 to Digital Interface Card

Verify the new iControl 2 is properly configured for the new digital interface card, go to the *Gun Configuration* screen (see Figure 5) and select the digital input card for *PCLD782*.

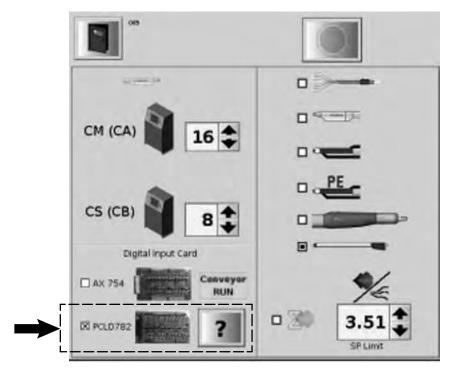


Figure 5 Gun Configuration Screen with Digital Input Card Selected

Parts

To order parts, call the Nordson Finishing Customer Support Center at (800) 433-9319 or your local Nordson representative.

Part	Description	Quantity	Note
1610832	KIT, 24 channel opto-input interface card, iControl 2	1	
1107147	CABLE, ribbon, 20 in, iControl	1	
	MODULE, 24 channel opto isolated DI	1	
1107146	JUMPER, com-style, 12 pole, 10 mm spacing	2	

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