WORLD electronics

800-523-0427

Phone: 610-939-9800

Fax: 610-939-9895

E-mail: service@world-electronics.com

Replacement Product Document

Product Name: WORLD electronics 4 Lane Stepper Mother Board
WORLD's Part Number: 7501.9090
Purpose: To provide an alternative product that replaces existing steppers
Date Completed: 10/22/97
Revision Level: 0.1
Original Manufacturer's Part Number:
Pages: 3 pages plus cover sheet

INPUT TERMINAL	SIGNAL NAME	DESCRIPTION
TB1-1 & 2	POWER SUPPLY	This input must be 120VAC in order to power the motherboard.
TB1-3	UFA / DFA	This is the "one floor run" input. It overrides the notch input and is direction dependent. It may only be necessary in Haughton elevator applications.
TB1-4	RT	This is the "reset top" input. Firing it will automatically move stepper to a predetermined floor set by switch pack SW1 (switches 5-10, see chart). It is very useful to keep stepper from notching outside of the floor count.
TB1-5	DN	This is the "down direction" input. The stepper unit will default in the UP direction. It only needs to be high or hot when running DOWN.
TB1-6	RB	This is the "reset bottom" input. Firing it will automatically move stepper to a predetermined floor set by switch pack SW1 (switches 1-4, see chart). It is very useful to keep stepper from notching outside of the floor count.
TB1-7	NOTCH	This is the "notching" input. Firing this input will increment or decrement floor count depending upon the direction selected. (HINT: it is the same as pushing the red push button on the side of the motherboard.)
TB1-8	COMMON	This is the ground, common, or return to all of the above inputs. If taking any measurements of inputs, reference this pin.
TB2-1	LANE "A"	This is the lane "A" common input. The input voltage is determined by the device that need to be switched. (see typical hook up for diagram)
TB2-2	LANE "B"	This is the lane "B" common input. The input voltage is determined by the device that need to be switched. (see typical hook up for diagram)
TB2-3	LANE "C"	This is the lane "C" common input. The input voltage is determined by the device that need to be switched. (see typical hook up for diagram)
TB2-4	LANE "D"	This is the lane "D" common input. The input voltage is determined by the device that need to be switched. (see typical hook up for diagram)

Note: WORLD electronics' steppers are customized per order for proper input voltage. Please have this information available when ordering. This setup range can be anywhere from 12 to 120VAC or DC. If replacing an existing stepper (7501.9090), be sure both are configured the same. Thanks for choosing WORLD electronics for your elevator electronics needs.

WORLD electronics Solid State Stepper 7501.9090

This stepping switch assembly 7501.9090 uses relay board 7501.9091. It will support from one to four relay boards. Please observe polarity when installing any relay board.

Each relay board has a capacity of 8 positions:

1 to 8 positions - 1 relay board plugged into J1 of motherboard
9 to 16 positions - 2 relay boards plugged into J1 and J2 of motherboard
17 to 24 positions - 3 relay boards plugged into J1, J2 and J3 of motherboard
25 to 32 positions – 4 relay boards plugged into J1, J2, J3, and J4 of the motherboard

Programming of top and bottom floors on solid state stepper motherboard:

For bottom floor, set dip switch 1 pins 1-4 as follows:

Bottom floor settings:

Floor #	1	2	3	4
1				
2	On			
3		On		
4	On	On		
5			On	
6	On		On	
7		On	On	
8	On	On	On	
9				On
10	On			On
11		On		On
12	On	On		On
13			On	On
14	On		On	On
15		On	On	On
16	On	On	On	On

For top floor, set dip switch 1 pins 5-10 as follows:

Top Floor Settings

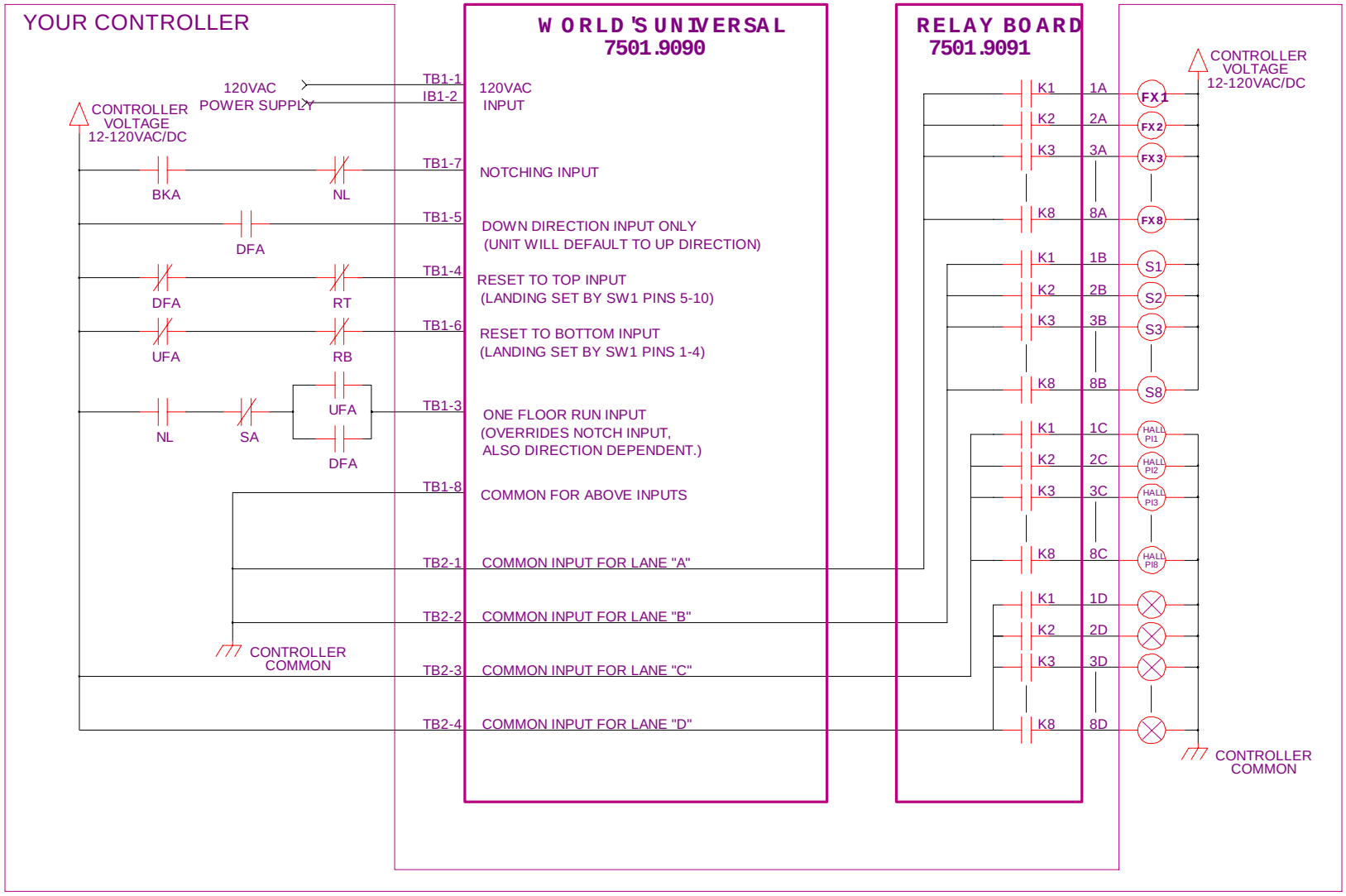
Switch Settings

Floor No.	Sw5	Sw6	Sw7	Sw8	Sw9
2	On				
3		On			
4	On	On			
5			On		
6	On		On		
7		On	On		
8	On	On	On		
9				On	
10	On			On	
11		On		On	
12	On	On		On	
13			On	On	
14	On		On	On	
15		On	On	On	
16	On	On	On	On	
17					On
18	On				On
19		On			On
20	On	On			On
21			On		On
22	On		On		On
23		On	On		On
24	On	On	On		On
25				On	On
26	On			On	On
27		On		On	On
28	On	On		On	On
29			On	On	On
30	On		On	On	On
31		On	On	On	On
32	On	On	On	On	On

NOTE:

Sw10 is not used on this PCB. Please leave this switch at the factory setting, which is off.

TYPICAL HOOK-UP FOR UNIVERSAL STEPPER



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