

Mega Series Board

***E2** – The operator senses 2 obstructions before triggering a limit, it shuts down and alarms. Inputs with “Y” for “E2” will reset this condition.

All open commands override any other command (timer, close, safety, etc...)

Current Models (MA, MAT,MAS,MAST,MSW,MSL,MSLX) Old models (Mega Arm, Mega Sprint, Mega Swing, Mega Slide, Mega Slide-X)

J5 Plug	Input Name	LED	Function	TT C On	E2	Recommended External Devices
1,2,3	Open	D15,D16,D17	Open only from any position in travel	Y	N	Open Button, TES, Exit Loop
4	Aux. Open	D18	Will open gate from any position in travel, will close gate if appropriate dip switch is on	Y	N	Radio Receiver
5	Safety	D19	Reverses a closing gate to the open position	Y	N	Photo Eyes, Safety Loop
6	Close	D22	Closes gate once command is released	Y	N	Close Button, Close Loop
7	Back Away	D23	Opens gate from any position, closes immediately if safety/open is not held. This command is triggered with MANUAL OPEN/CLOSE switch	N	N	Exit Loop
8	Shadow	D24	Mega SW/SL Will prevent gate from closing only when gate is on open limit	Y	N	Shadow Loop, Interlock Wire from Other Operator
			Mega Arm Will prevent gate from opening while LED is lit (to be used only for SAMS applications)			
9,10,11,12 JP4	Common Stop	N/A N/A	Common terminals for all inputs	N/A	N/A	Common wire for each input
			Pauses gate and sounds audible alarm while triggered, once released will continue travel	Y	N	Back travel Photo Eyes, Stop Button

Main Board and Auxiliary Connections		Function/use
Aux Limits	Limit switches for slide & swing	Commands the board to stop the motor
J3 IRD	Connects to J3 IRD on 2 nd operator (terminals 1, 2, 4)	Sends obstruction sense command to 2 nd operator
ACC+,-	Accessory device power	24VDC output voltage for powering external accessory devices max 500mA
Bat -	Positive and Negative terminal for Batteries. Polarity MATTERS	+ & - terminals without batteries connected should read 27.5, batteries should read 25.5. Use unlabeled pot on right side of board to adjust charging voltage
Bat +		
24v AC XFMR	Yellow wires from Transformer should connect here.	Polarity does not matter for AC input. Should be above 22vac
Motor Motor	motor wires (Blue and Orange wires)	Reverse wires to change direction (follow complete “reverse direction” procedure in manual)

LEDs		Description	Dip Switch Settings – When switched on					
AC PWR	D14	AC power is being supplied to the board	Mega Arm Dip Switches			Mega SW/SL Dip Switches		
LOW BATT	D12	Battery Voltage is below 24vdc	SW1		SW2	SW1		SW2
HBEAT	D11	(Flashing) Main Processor is functioning	1	Fast Run 1 Sec	TTC 1 Sec	1	Fast Run 1 Sec	TTC 1 Sec
K1 Relay	D1	(Optional) K1 Relay energized	2	Fast Run 2 Sec	TTC 2 Sec	2	Fast Run 2 Sec	TTC 2 Sec
IRD	D2	(Flashing) MRT expired, (ON) force reversal	3	Fast Run 4 Sec	TTC 4 Sec	3	Fast Run 4 Sec	TTC 4 Sec
CLS	D3	Close Limit Switch Activated	4	Fast Run 8 Sec	TTC 8 Sec	4	Fast Run 8 Sec	TTC 8 Sec
CLOSE	D4	Close relay energized to send voltage to the motor	5	J5 #4 SBC	TTC 16 Sec	5	Fast Run 16 Sec	TTC 16 Sec
BRAKE	D5	Brake has been energized	6	ATG W/ Clutch	Input Memory	6	Fail Secure-if off=auto open when batt low	JP #4 SBC
OPEN	D6	Open relay energized to send voltage to the motor	7	Rev. Direction	Enable TTC	7	No Longer Used	Enable TTC
OLS	D7	Open Limit Switch Activated	8	K1 Function	Auto Open	8	No Longer Used	Auto Open
TX	13	Normally on, flashes when comm w/ 2 nd operator						

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