HAND-HELD PENDANT CONTROLLER

CONVERSION KIT INSTRUCTIONS

RBD1019 MONOCHROME (old style)

TO

TRC800 COLOR (new style)



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1) Take multiple photographs of the wiring to the relay board for future reference
2) Make sure the picker is powered down and locked out. (Pneumatics and Electric)
3) Review these instructions in their entirety.
4) Check all wire connections to the relay board and label
    a. CN6 with wire number 1 starting at the bottom and 13 at top. (wire 13 may be connected to terminal 13 on CN6 or X2 on CN3) Wires may be marked with numbers directly on the insulation but can be difficult to read)
    b. CN3. If there is a wire on X2 label it 13 The other terminals on CN3 are for controlling the start and stop of an auxiliary conveyor and may have been installed by the user.
    c. CN2 L+ and AL go to the warning light, B2 and L+ go to the Buzzer. Label as marked. The jumper wire on the two right most terminals on CN2 are to allow for a switch to silence the buzzer. The jumper will not be used on the new board.
    d. CN4 Green and Green and Yellow wires on PE and E Terminals.
    e. CN4 The wires on terminals 4 and 5 from bottom (Note, the board is not labeled here but wires should be labeled SW1 and SW2 and connect to terminals on the power switch.)
    f. CN4 The bottom two connectors are L2 and S1 label accordingly. We will not be connecting these wires to the new board. See step 17



g. All plastic plugs on J1 thru J11. The connectors on J1-J6 should be labeled Y1-Y6. The connectors on J7- J11 should be labeled as follows. X1 on J7, X3 on J8, X4 on J9, X5 on J10, X6 on J11. Note: Y1-Y6 are the outputs to the solenoid valves X1,X3-X6 are the inputs.

Picture of labeled Wiring on Relay board



5) Remove connector at bottom of the relay board that connects to the Control pendant



6) Disconnect wires from the relay board CN6, confirming that they are labeled as you remove them. Wires should be removed from terminal blocks by pressing orange tab with a small screwdriver and pulling wire straight out.



7) Disconnect plugs going to relay board, confirming that they are labeled as you remove them from J1 thru J11. The connectors on J1-J7 may be labeled Y1-Y7. The connectors on J7- J11 may be labeled as follows. X1 on J7, X3 on J8, X4 on J9, X5 on J10, X6 on J11. Depress locking clip as shown to remove plug.



8) Remove old GA28 relay board and set aside. Retain Screws for attaching new board in step 9

9) Install TRC800 relay Board in same spot. Middle screw on right hand side will not be used because new board does not line up with old mounting.

10) Reconnect the white plastic plugs to the TRC800 relay board as per the chart.

Connect to new board
Y1 to J1
Y2 to J2
Y3 & Y4 to Adapter on J3(Adapter is marked)
Y5 to J4
Y6 to J5
Y7 to J6
X1 and X3 to Adapter on J7(Adapter is marked)
X4 to J8
X5 to J9

11) Connect the new hand control and pendant to the new relay board at the bottom.

12) Reconnect the SPI cable wires as per the chart. Proceed slowly starting at bottom of Cn2 with wire 1 working up. Note, these instructions are for Euromap 12 only

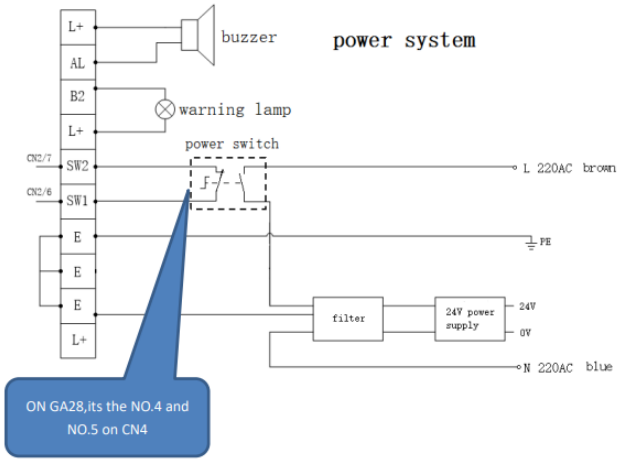
Labeled Wire # from Old GA28	place on CN2 TRC800 new board terminal number 1 starting at bottom	
1	1	Mold Open Signal
2	2	IMM Door Switch
13	3	IMM Auto signal
3	4	E-Stop of IMM
4	5	Signal of Robot L-
7	6	Enable Mold Close Robot to IMM
8	7	Enable Mold Close Robot to IMM
5	8	Mold area Free Robot to IMM
6	9	Mold area Free Robot to IMM
9	10	Enable Ejector Forward Robot to IMM
10	11	Enable Ejector Forward Robot to IMM
11	12	Emergency Stop of Robot
12	13	Emergency Stop of Robot
		Wires 14 and 15 not used

13) CN 3 of new board starting top down Connect the buzzer and the Warning Light per the diagram (L+ and AL to L+ and AL) (BZ and L+ to B2 and L+)

14) Connect the power switch contact SW1 & SW2 Move from 4th and 5th terminals from bottom on CN4 Old board to SW1 & SW2 4th and 5th terminals from bottom on CN3 new board

15) Connect the Ground wires from PE and E on CN4 old board to E terminals on CN3 of new board

CN3 and power supply on TRC800:



CN3 new board

16) Connect the 24V DC power Directly from 24V DC Power Supply by connecting L+(red) and L-(white) to corresponding terminals on CN4 new board. Cut wire tie if needed to allow wire to reach. Jumper between X2 and L- on CN5 should already be in place.

17) Connect L2 and S1 that were connected to terminals 1 and 2 of CN4 using the supplied inline fuse holder assembly. Cut off pin connectors and strip end of wire on L2 and S1. Crimp one to each end of the fuse holder assembly. Use heat to shrink crimp connectors to wire. The Fuse for the incoming power that feeds the power supply will no longer pass thru a fuse on the relay board but rather thru the fuse in the fuse holder. Ther fuse will still be a 2.5-amp fuse.



Completed Installation



18) Power up picker and Verify I/O between picker and IMM

19) Power up picker and test in manual verifying all motions and proximity switches

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