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**2009
360 or Flatback Distributor
Installers Manual**



Lambton Conveyor

1247 Florence Road Florence
Ontario, N0P 1R0
Canada

1 - 888 - 239 - 9713

www.lambtonconveyor.com



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Operation Manual

Start Up Mode

LAMBTON

1 - 888 - 239 - 9713

Start

This screen is the first screen that is displayed when the control unit is energized.

Press the **Start** button to get into operation mode

Encoder Value

BACK
Return to start screen

Port Indicator
The distributor is in position if the **OK**, **GoTo #** and **Pos #** are the same

Pos - Position
Indicating the current position of the Port

Port Selection
Use the (+), (-) buttons to select port position
Note: While the unit is moving the screen will stay wait.

Port Selection
Use the (+), (-) buttons to select port position
Note: While the unit is moving the screen will stay wait.

GOTO
Advance the unit to select port.



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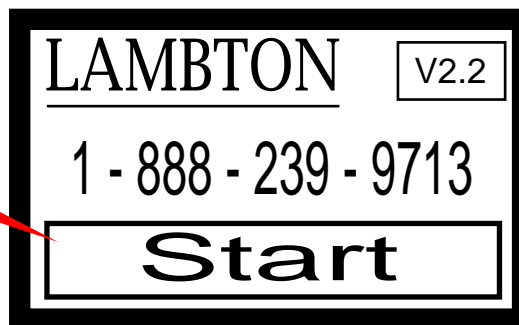


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2009 Flatback Manual - User Guide

This screen is the first screen that is displayed when the control unit is energized.

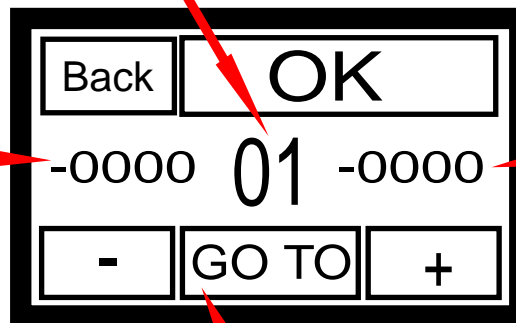
Press "Start"



When "Start" is selected this screen appears

Actual Port Position

Assigned numbers for current position of Port



Current position of arm

Push "-" or "+" to select desired port, then push "GO TO" this will start to move to port position

If you see this screen "Remote Acc ON"
The controller is receiving a Remote Input Command

Remote
Acc ON

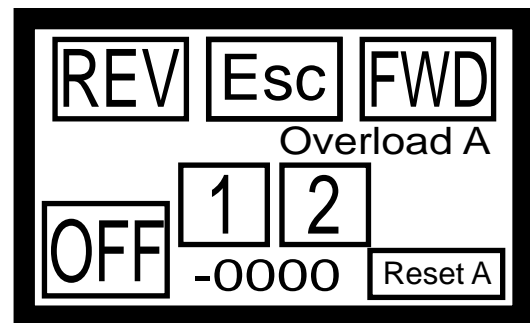


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2009 Flatback Manual - Errors Guide

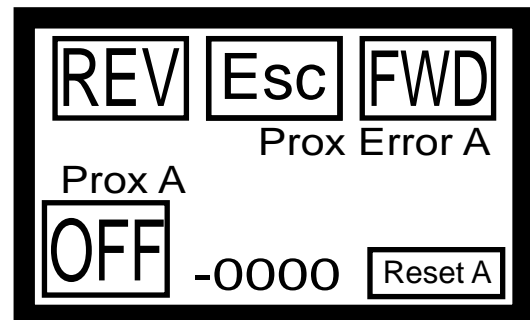
Overload Error

Press **Reset** and **ECS**, if this continues
This could be one of two problems,
1 - motor seized or 2 - encoder failed
Step 1 test motor, check leg for physical obstructions
to motor, then push and hold **FRW** or **REV** to verify
motor is moving, if not then test encoder
Step 2 test encoder
Step 3 Check motor cables



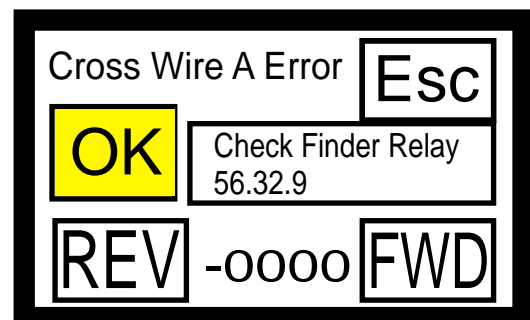
Prox Error

Confirm location of Prox, (visually inspect prox)
physical confirm all positions
refer to page 9 for prox location.
In case of emergency unplug prox



Cross Wire Error

If this error occurs during installation refer to page 6
if occurs after, test Finder Relay
physical confirm all positions
if cross wire has been corrected **OK** will appear while
your holding the **FRW** or **REV** Button





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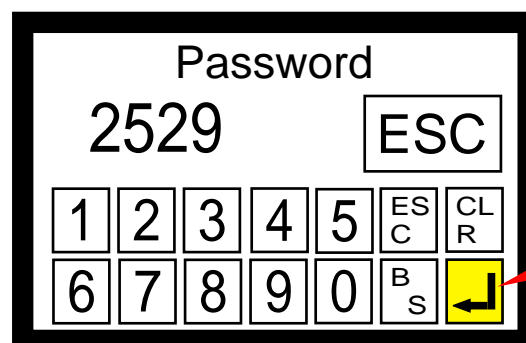
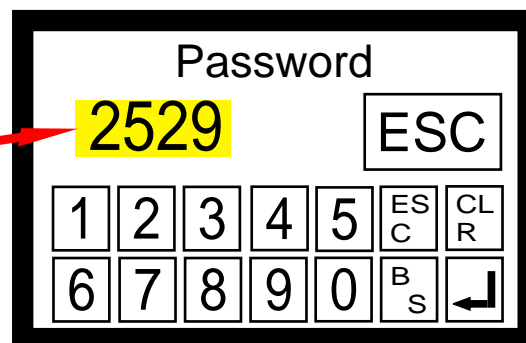
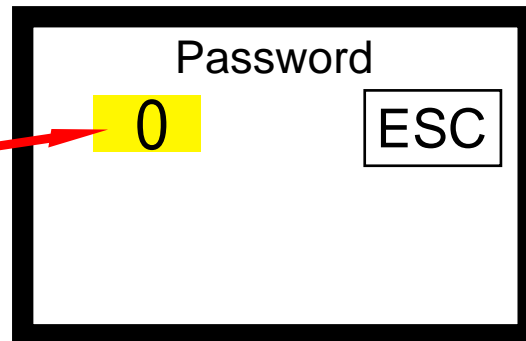
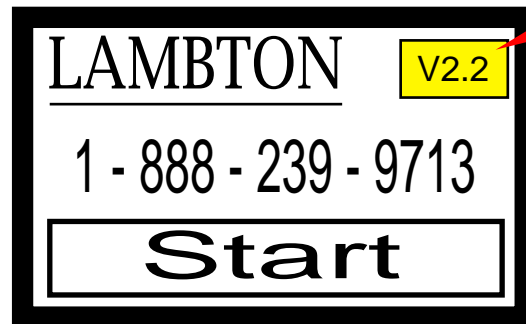
Hidden Button

Press and hold top right for 4 seconds to get into the set up mode

Push on Numbers Keypad will appear

Enter setup password "2529"

After entering password "2529" then press Enter





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Setting up Number of Ports

Step 1

To set the number of ports
Press the **numbers** and a key pad
will appear

Step 2

Enter number of ports
then press "Enter" (↵)

Step 3

This screen appears next, we are
going to set the "Home Prox A"
position, press this button

The first screenshot shows the keypad with 'ESC', 'Save A', and 'Other' at the top. Below is '# of A Ports' with '00' highlighted in yellow. To the right is 'Home Prox A' and a 'Ports' button. A red arrow points to the '00'.

The second screenshot shows a numeric keypad with '7', '8', '9' in the top row, '4', '5', '6' in the middle, and '1', '2', '3' in the bottom. Below the keypad is '0', 'ESC', and a yellow arrow key. To the right, '08' is highlighted in yellow. A red arrow points to the '08'.

The third screenshot shows the keypad with 'ESC', 'Save A', and 'Other' at the top. Below is '# of A Ports' with '08' below it. To the right is 'Home Prox A' highlighted in yellow and a 'Ports' button. A red arrow points to the 'Home Prox A'.



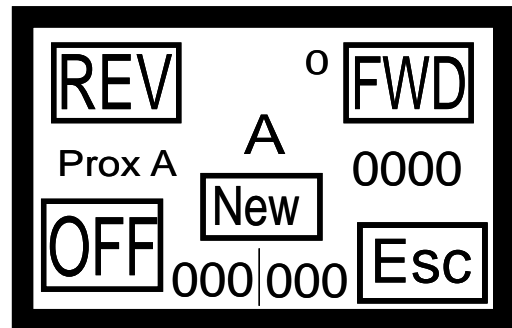
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Setting up Port Positions

Step 5

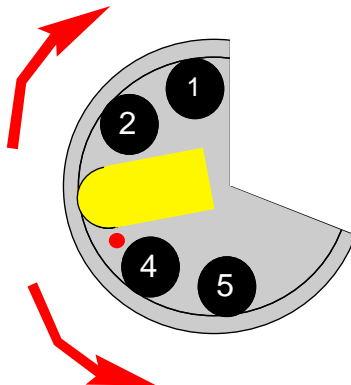
This screen appears next
Don't press any buttons yet,
This next step requires two people
we are first going to check if the
motor and the encoder are wired
correctly



Motor Direction And Wiring

Step 6

The diagram to the right is the flatback,
before beginning confirm that it has room
to move in both directions.





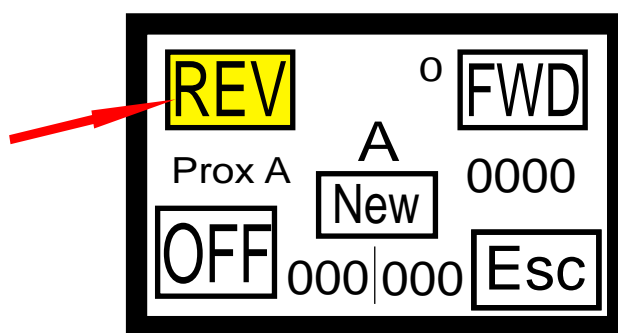
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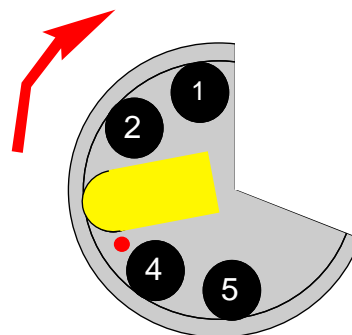
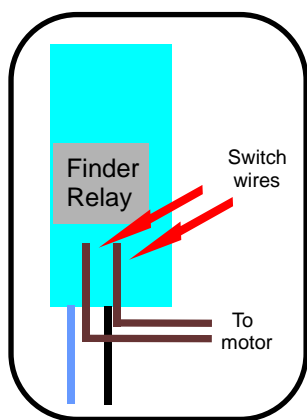
Motor Direction And Wiring

Step 7

If free from obstructions
Press "REV" briefly to confirm
proper direction, it should move
towards Port 1

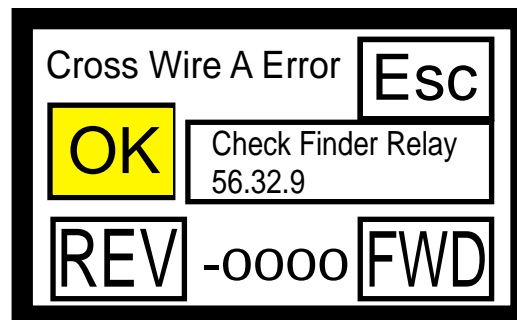


Note: If the arm is moving in the opposite direction, ("rev" arm will move towards "Port 1") in the panel, cross motor leads (Finder Relay) then reconfirm proper direction.



Cross Wire Error

If this error occurs during installation refer to page 5
if occurs after, test Finder Relay
physically confirm all positions
if cross wire has been corrected **OK** will appear while
your holding the **FRW** or **REV** Button





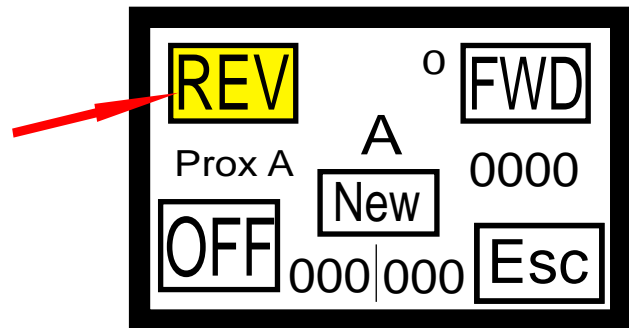
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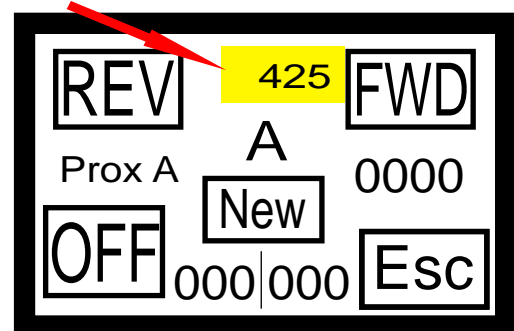
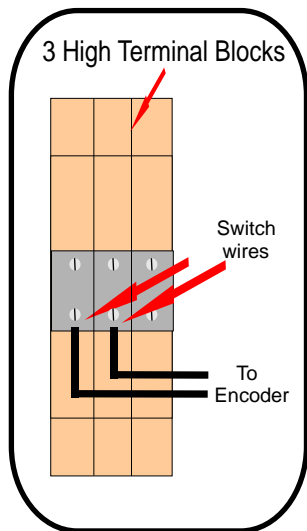
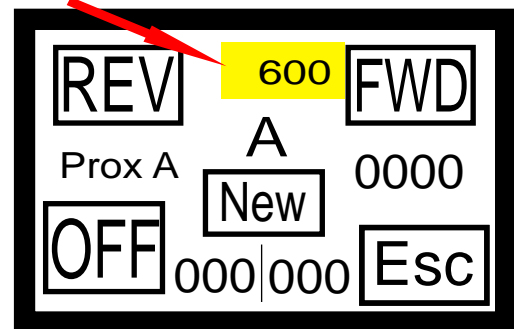
Encoder Values And Wiring

Step 8

Once motor is moving in the proper direction and the arm is free from obstructions Press "REV" briefly to confirm Encoder values are counting down



Note: If the Encoder Values is moving in the opposite direction, in panel cross wires "X0" and "X1" then reconfirm proper direction.





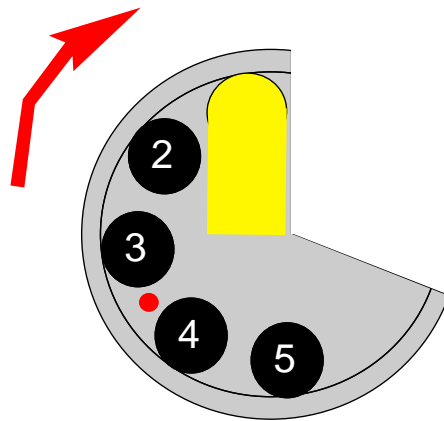
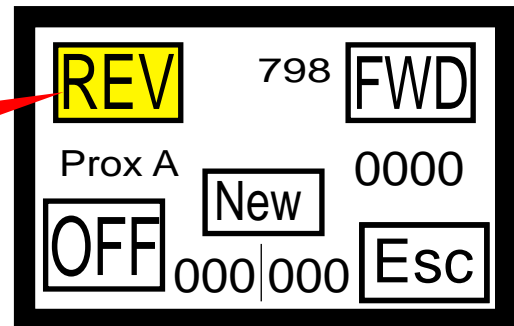
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Setting up Port Positions

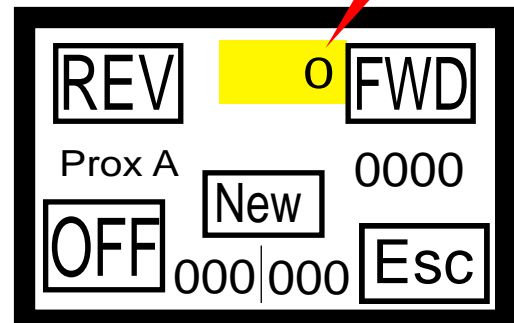
Step 9

Once Encoder is moving in the proper direction and the arm is free from obstructions Press "REV" so that the arm is aligned with Port 1



Step 10

Once the arm is aligned with Port 1 Then push and hold "Reset Encoder" Encoder values should go to zero





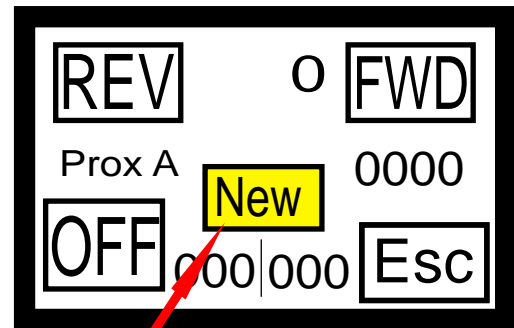
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Setting up Home Prox Position

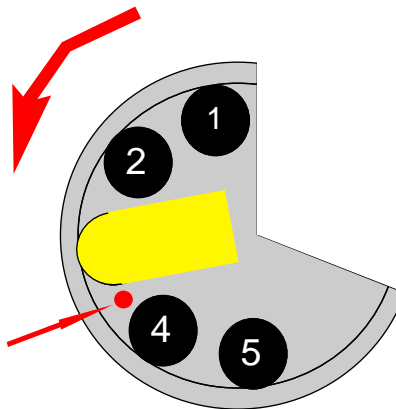
Step 11

Once encoder is reset to zero and aligned to Port 1
Then press and hold "NEW" until you pass the
prox position, this should be near the center of the
flatback unit.



Move past center

approximate prox location

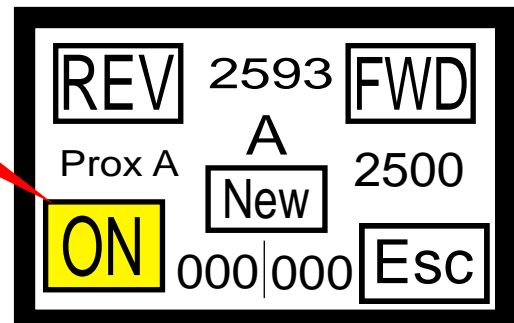


Some units have built in to the encoder
so there is no prox

Note: When the arm passes over the prox the
"OFF" will change to "ON" while in front of the prox.

The home prox location numbers will have changed
in most cases, it will now have been updated.

Please proceed to Step 12 on Page 10





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Setting up Home Prox Window

Note: Setting the Home Prox Window is not necessary in the installation process, as a setting was put in at the factory.

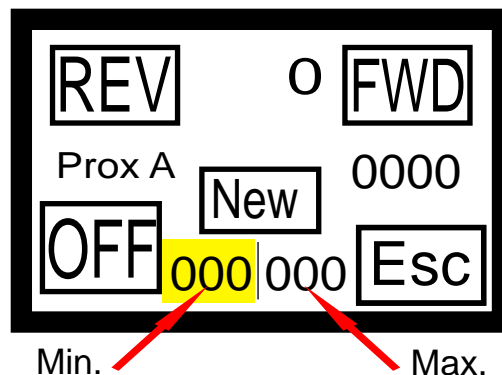
Please proceed to Step 12 on the following page

Please Contact Factory before proceeding with this process

Step 12

Contact Factory before proceeding with this step. To set the **Prox Window**, notice the two number displays, the numbers to the left are the Min. Window to the right are the Max. Window

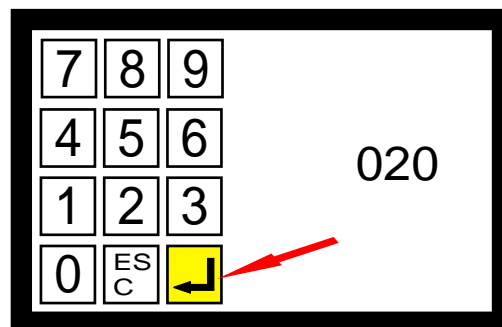
Press the "Min. Number Pad" on the left first



Step 13

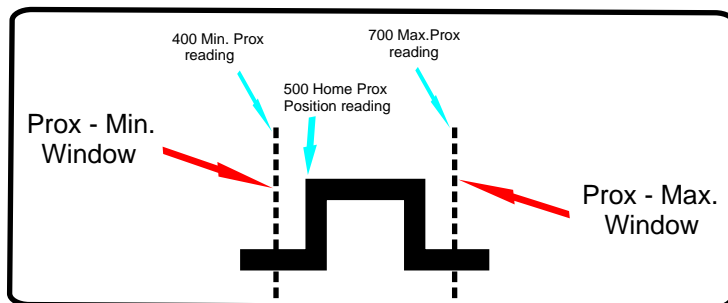
This key pad appears when you push "Min. Number Pad" enter the new Min. Prox Window setting

Then press "Enter" (↵)



Prox Window

"Factory setting for Min. window prox is 100 and Max. is set at 200
For Example if the home Prox Position is 500
Min. window would be 400 and Max is 700

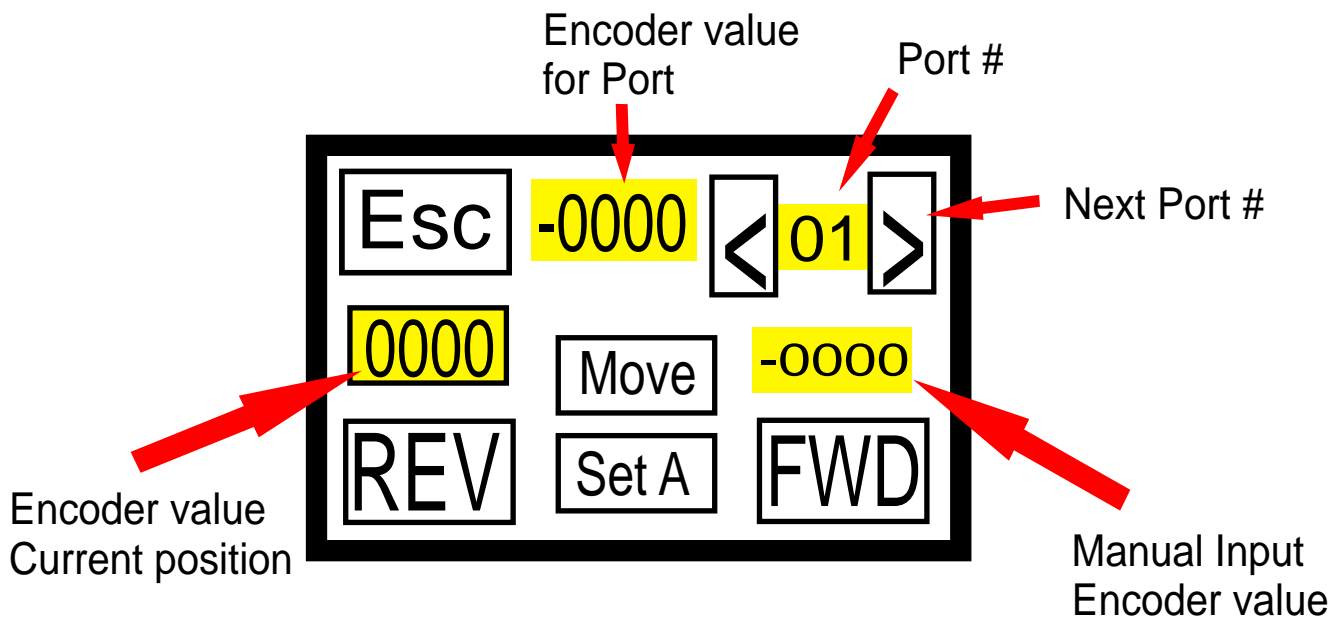




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Setting up Port Positions





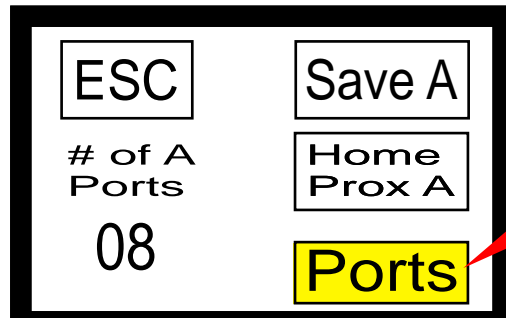
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Setting up Port Positions

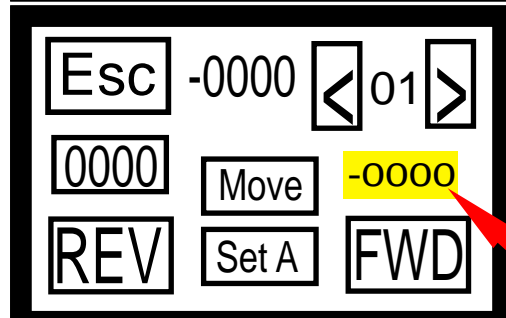
Step 1 Setting up Ports

Press "Ports"



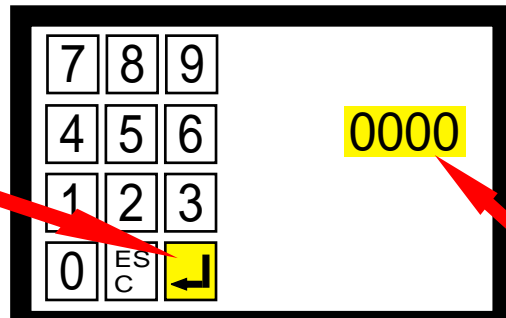
Step 2

To set the number of ports
Press the numbers and a key pad
will appear



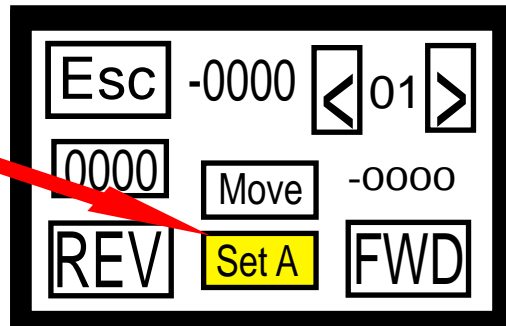
Step 3

Enter the Port 1 position
ex. 0000 Then press enter



Step 4

Then press "Set A"
Now position Port 1 has been
set to 0000





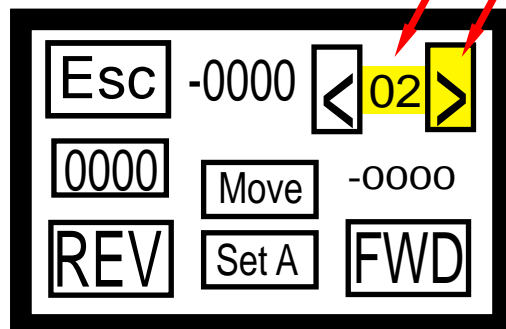
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Setting up Port Positions

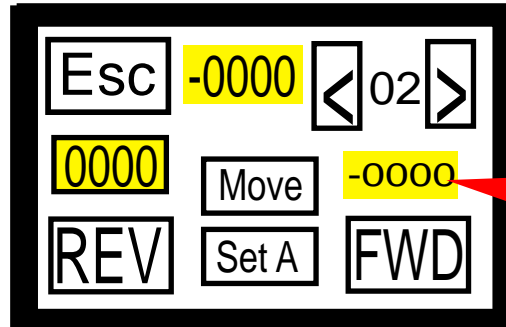
Step 5

Press ">" to port # 2



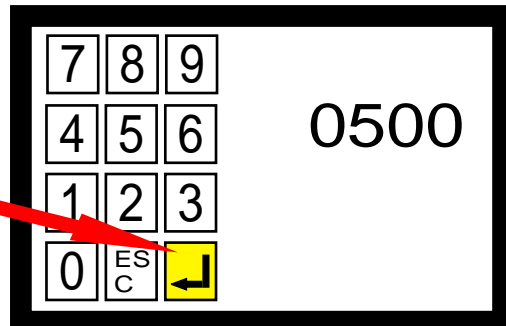
Step 6

Press "0000" a keypad will appear



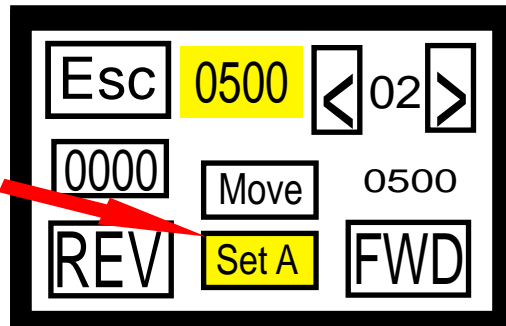
Step 7

Enter port position for
port number 2
(Ex. 500) Then press ↵



Step 8

Then press "Set A"
Now position Port 1 has been
set to 0000



Repeat this process all ports and verify all ports



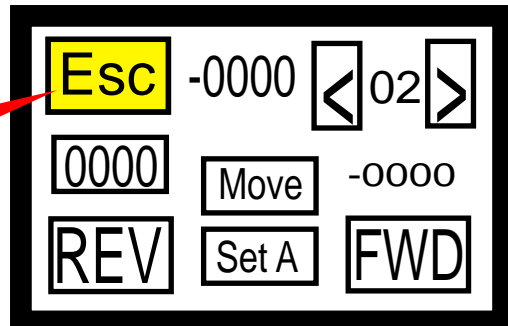
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Setting up Port Positions

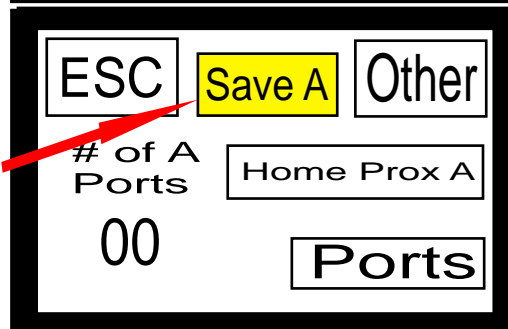
Step 5

Press "ESC"



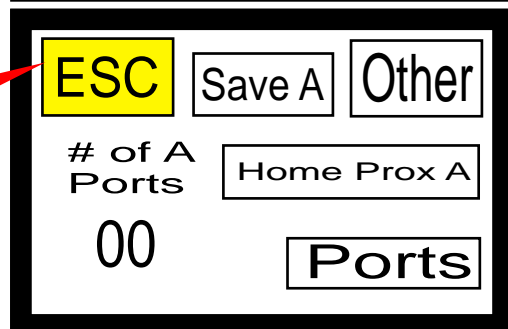
Step 6

Press "Save A"



Step 7

Press "ESC"
test all positions





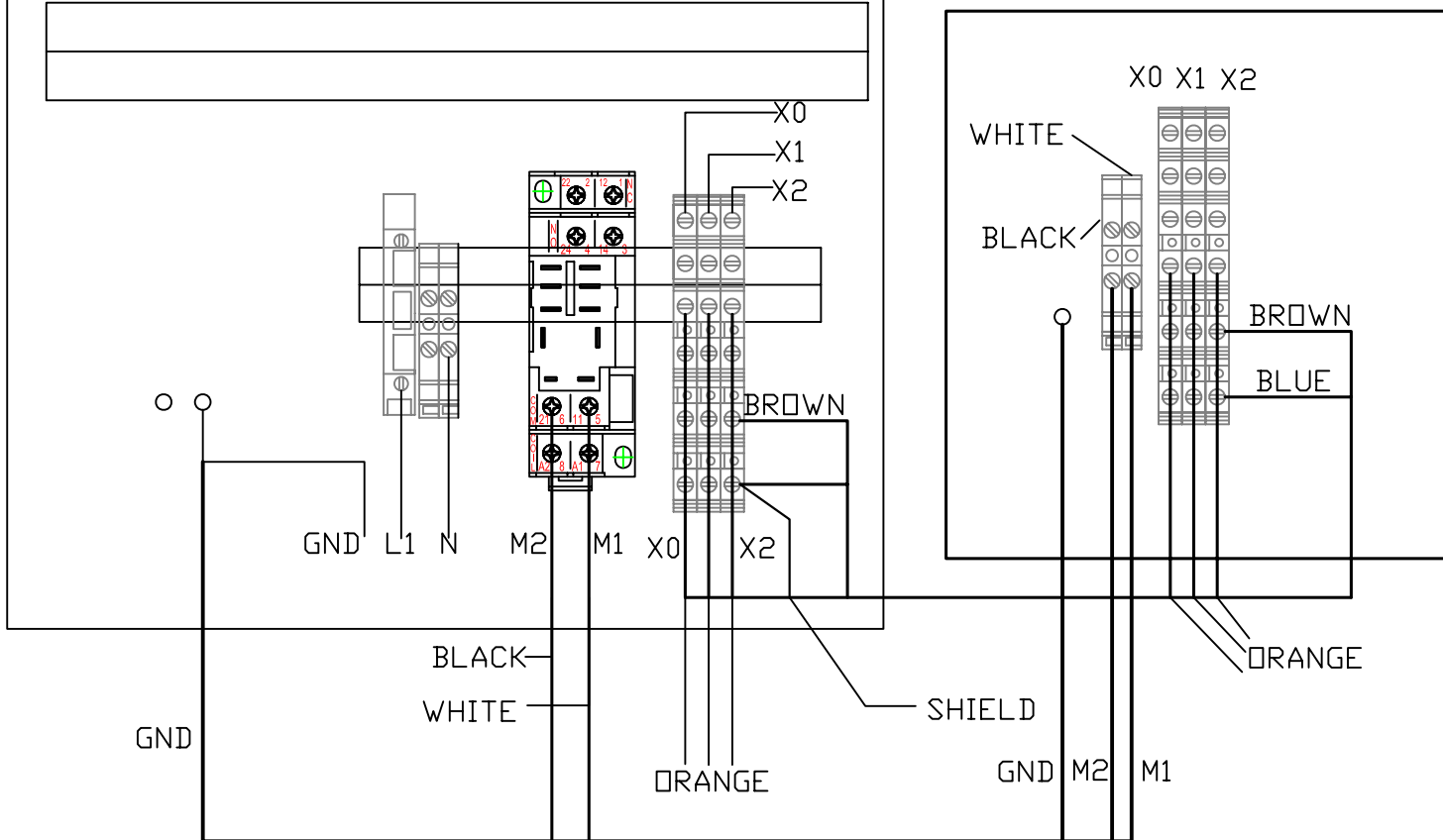
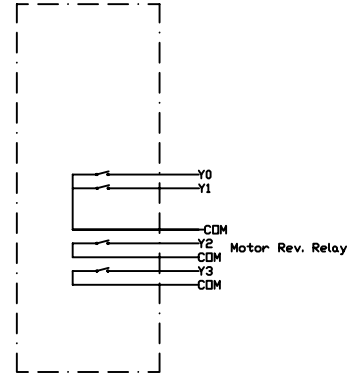
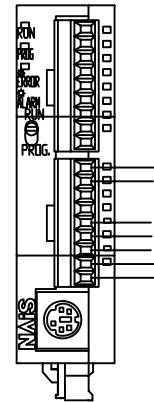
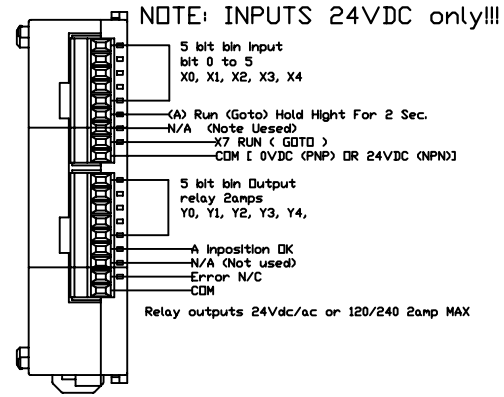
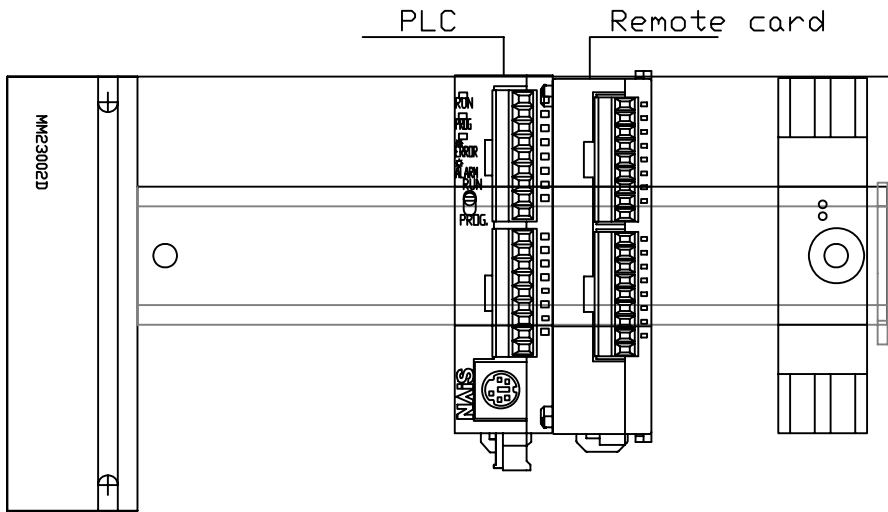
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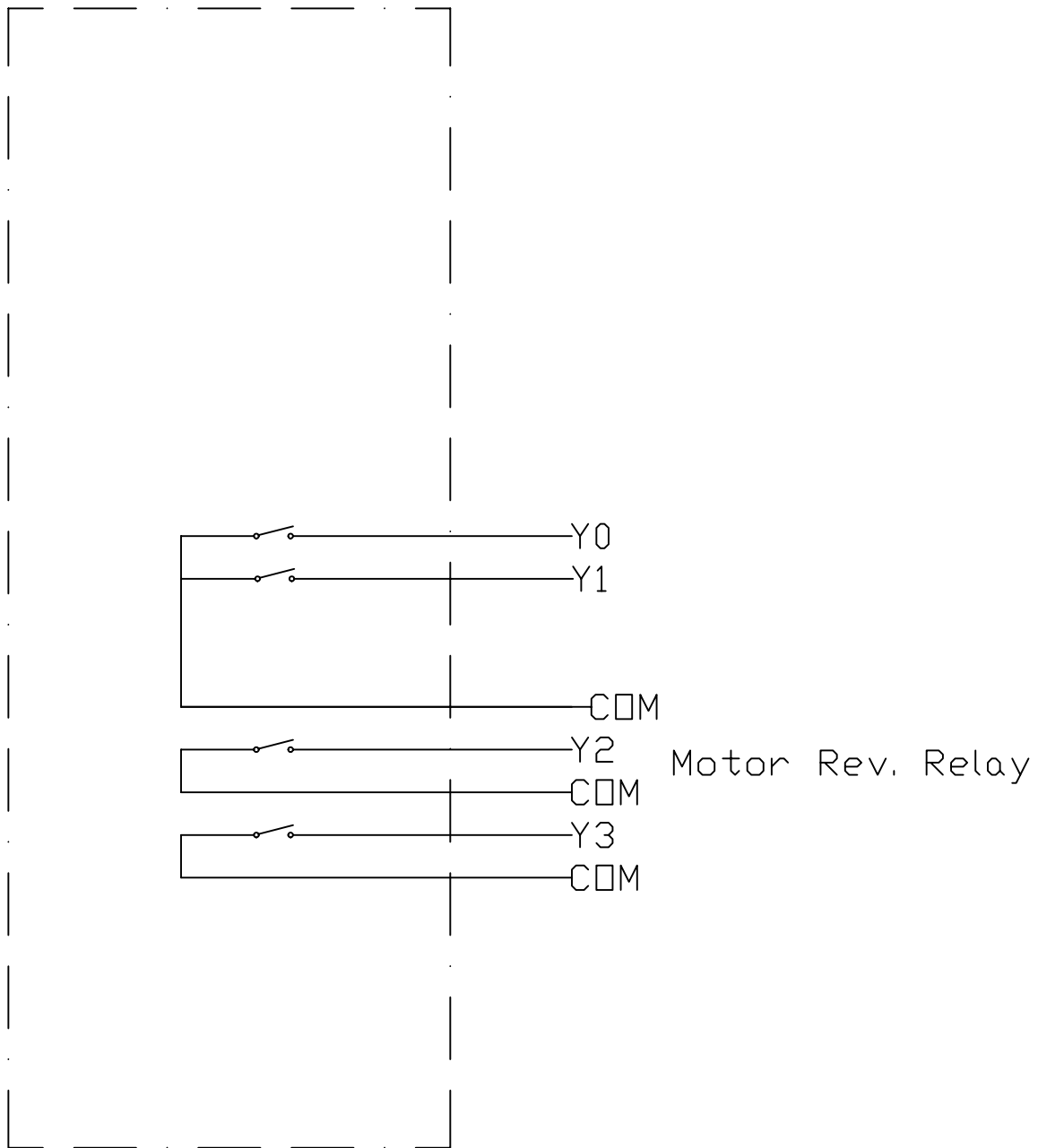
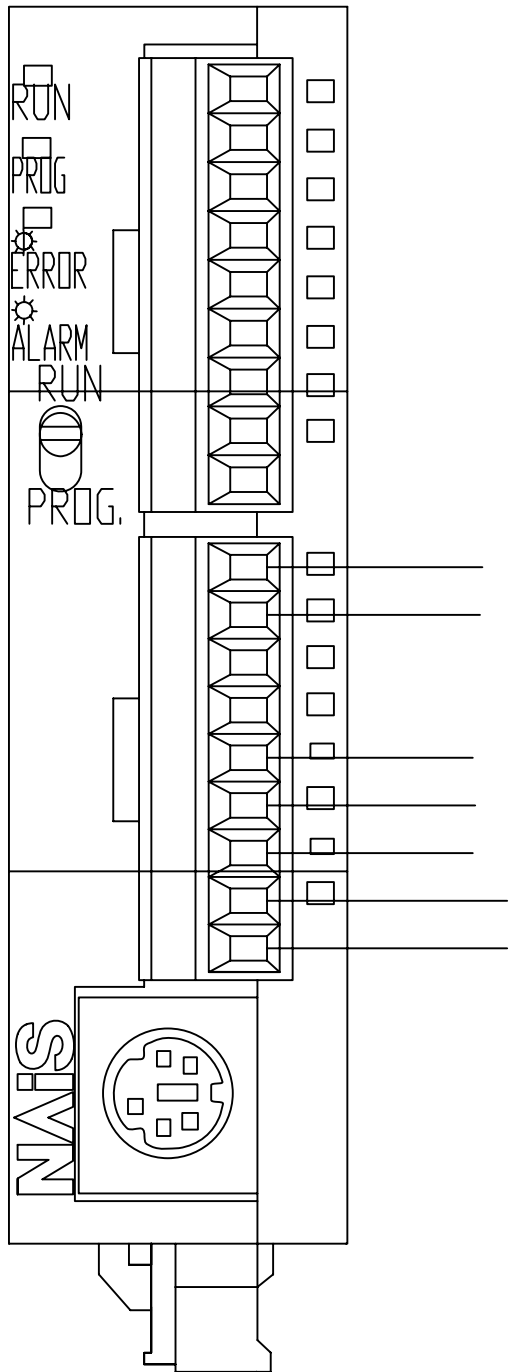
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Encoder Values

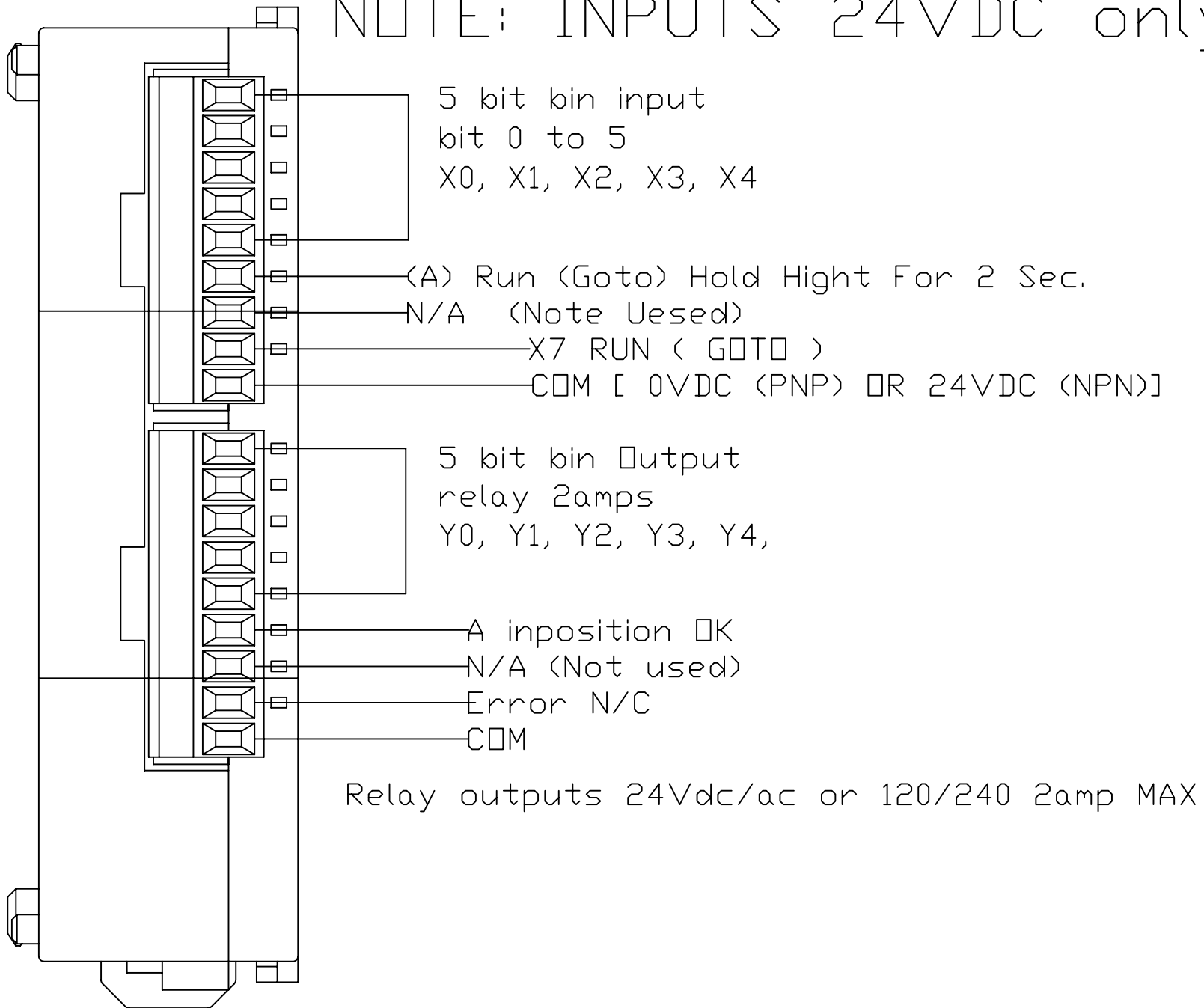
Port Settings

Port #	Factory Default	Actual Encoder Value	User Assigned Port #
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			

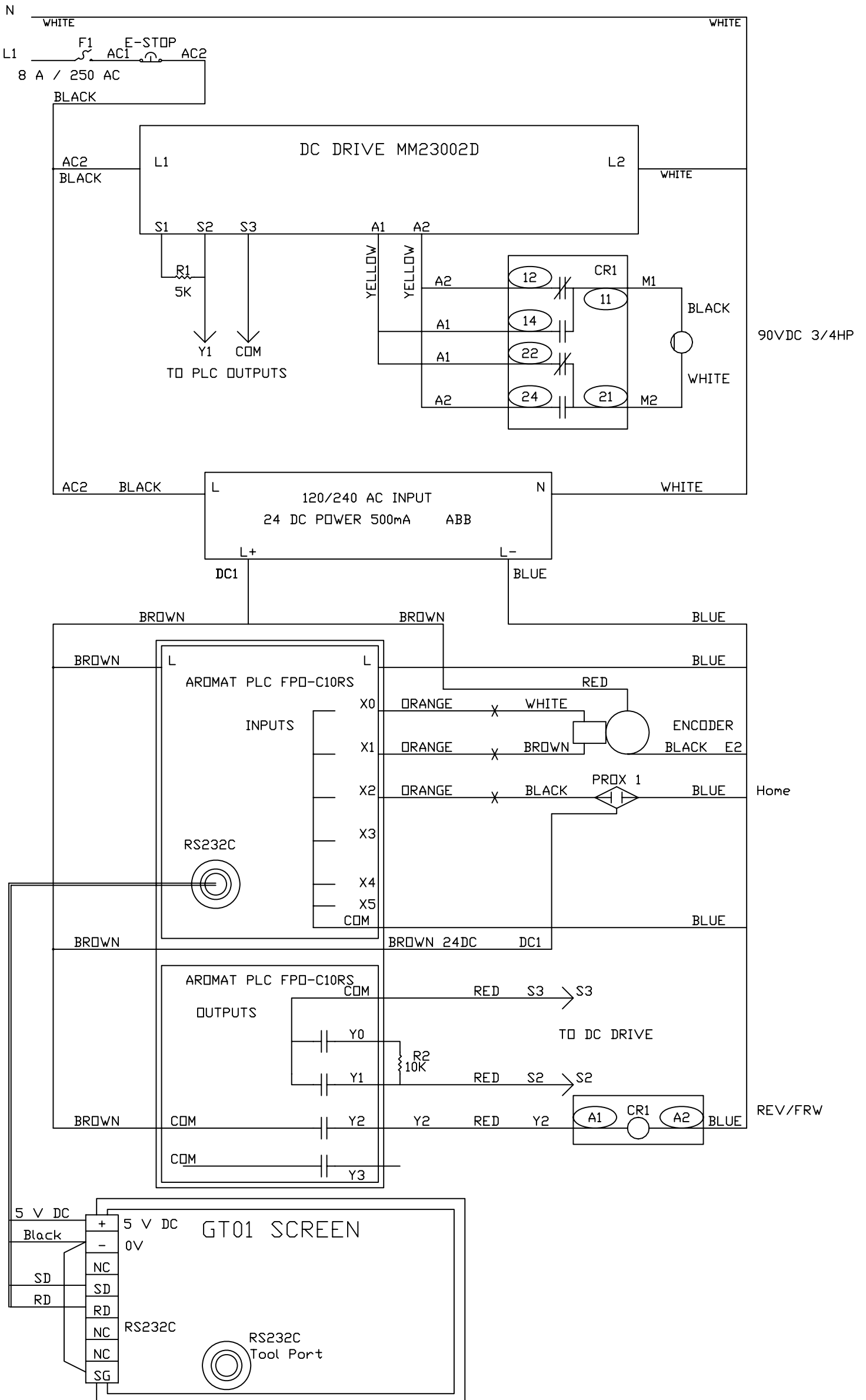




NOTE: INPUTS 24VDC only!!!



S-040610

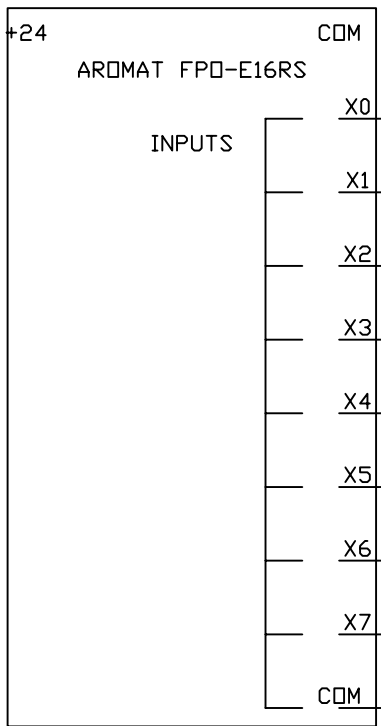


BY: SADHU GILL

24Vdc

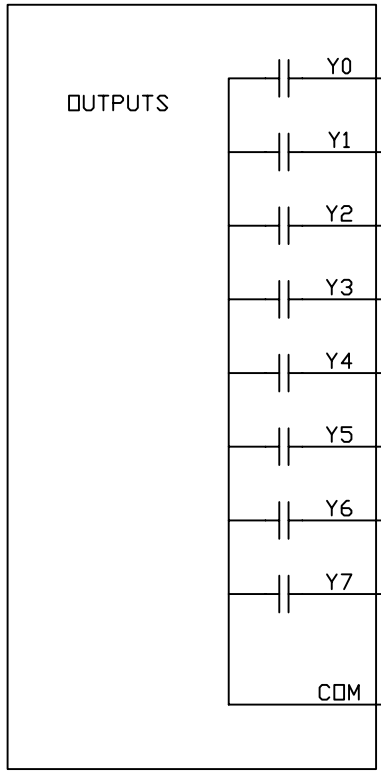
COM

BROWN



ALL INPUTS
24VDC
PNP or NPN
BINARY INPUT

REMOTE GOTO POSITION LEG A (HOLD HIGH FOR 2SEC).



All outputs are
Relays 250Vac 2amp

BINARY OUTPUTS

A Inposition OK

N/A

ERROR

COM