



**One Source...  
One Solution!**

**2009  
360 or Flatback Distributor  
Installers Manual**



**Lambton Conveyor**

1247 Florence Road Florence  
Ontario, N0P 1R0  
Canada

1 - 888 - 239 - 9713

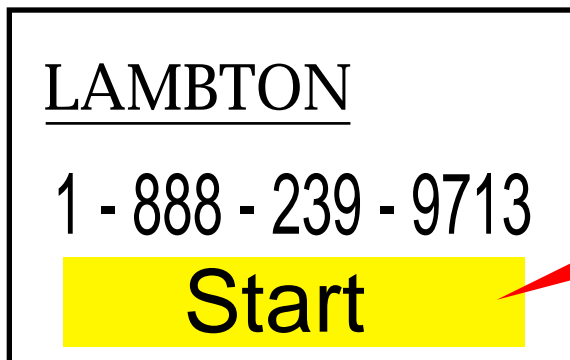
[www.lambtonconveyor.com](http://www.lambtonconveyor.com)



One Source...  
One Solution!

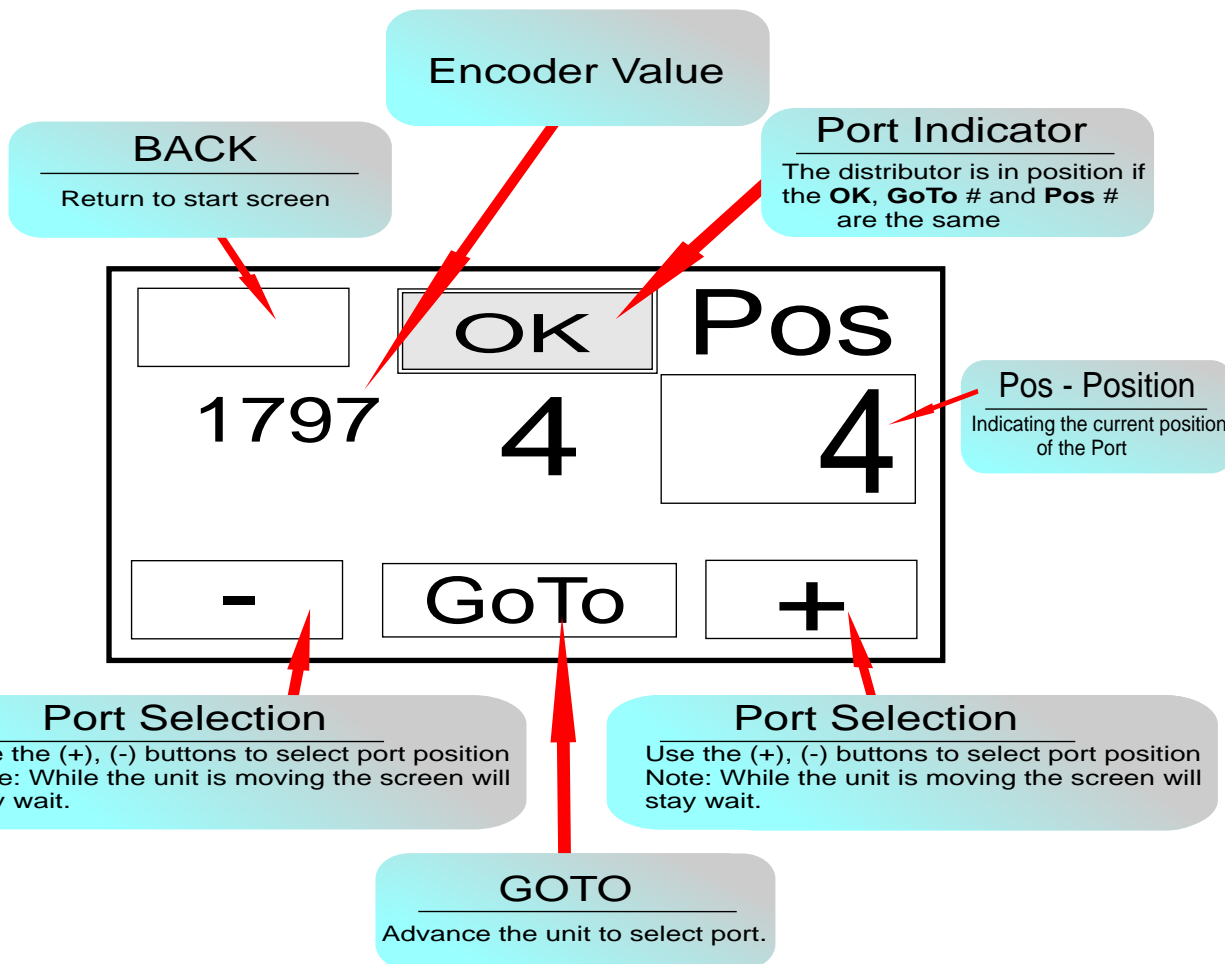
Operation Manual

## Start Up Mode



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

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





**One Source...  
One Solution!**

## Table of Contents

---

### **User Guide**

Port Positioning ..... P1

Remote Acc ..... P1

### **Errors Guide**

Overload Error ..... P2

Prox Error ..... P2

Cross Wire Error ..... P2

### **Installers Guide**

Invisible Button ..... P3

Setting Home Prox ..... P4-8

Encoder Values & Wiring ..... P7

Setting Home Prox ..... P9

Setting Port Positions ..... P11-14

Encoder Values ..... P15

## **Lambton Conveyor**

1247 Florence Road Florence

Ontario, N0P 1R0

Canada

1 - 888 - 239 - 9713

[www.lambtonconveyor.com](http://www.lambtonconveyor.com)

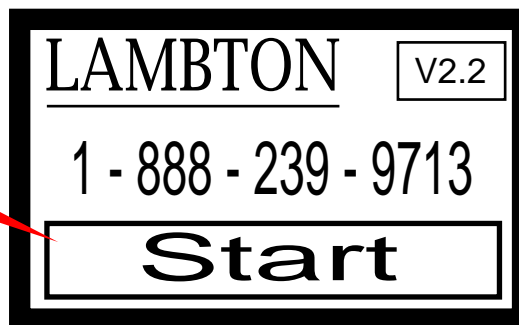


One Source...  
One Solution!

## 2009 Flatback Manual - User Guide

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

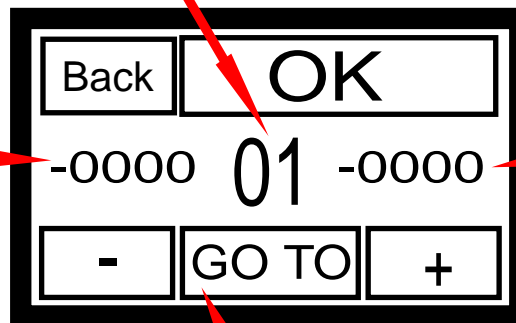
Press "Start"



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

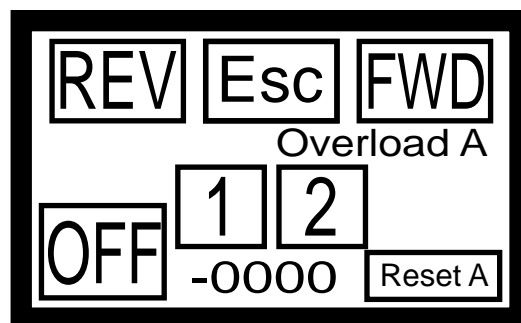


**One Source...  
One Solution!**

## 2009 Flatback Manual - Errors Guide

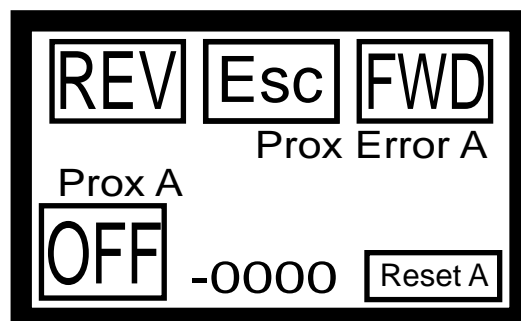
### Overload Error

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



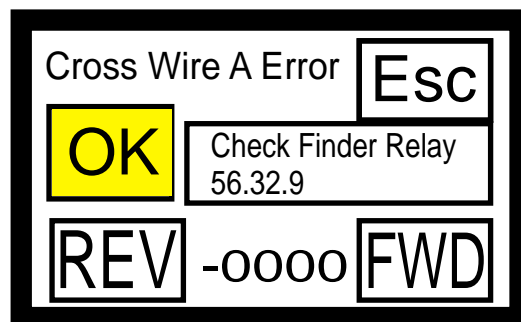
### Prox Error

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





**One Source...  
One Solution!**

## 2009 Flatback Manual - Installers Guide

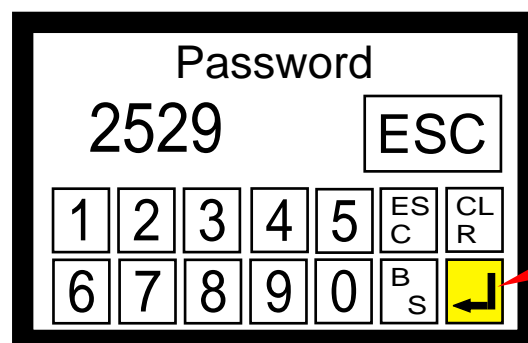
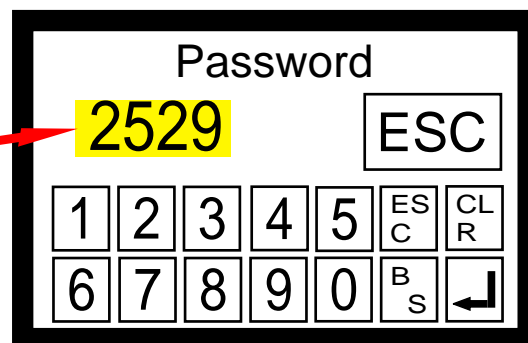
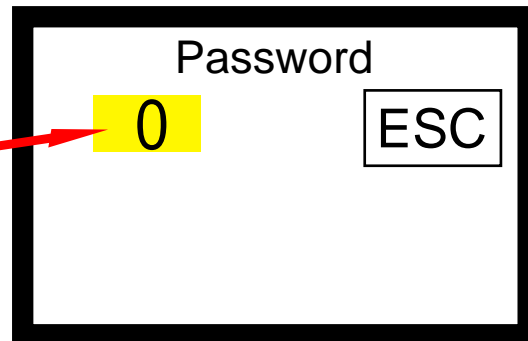
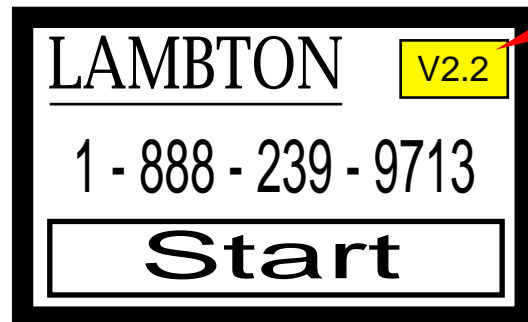
### Hidden Button

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





One Source...  
One Solution!

## 2009 Flatback Manual - Installers Guide

### 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 at the bottom right. 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 second row, '1', '2', '3' in the third row, and '0', 'ESC', and an arrow key in the bottom row. '08' is highlighted in yellow on the right side. 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. Below that is another '08' and a 'Ports' button at the bottom right. A red arrow points to the highlighted 'Home Prox A'.



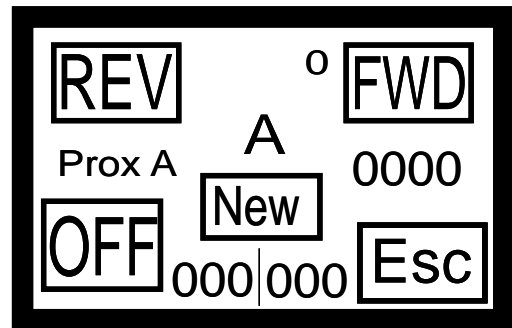
**One Source...  
One Solution!**

## 2009 Flatback Manual - Installers Guide

### Setting up Port Positions

#### Step 5

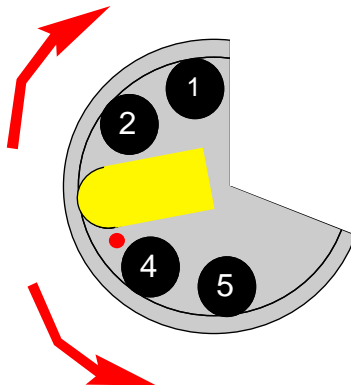
This screen appears next  
Don't press any buttons yet,  
This next step requires two people  
we are first going to check if the  
motor and the encoder are wired  
correctly



### 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.







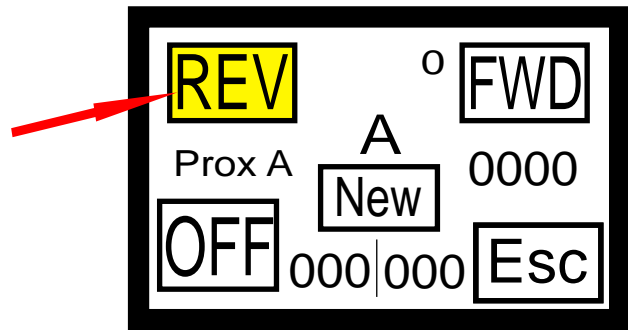
**One Source...  
One Solution!**

## 2009 Flatback Manual - Installers Guide

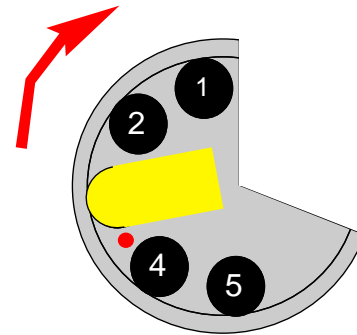
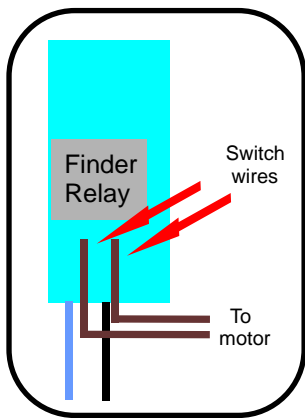
### Motor Direction And Wiring

#### Step 7

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

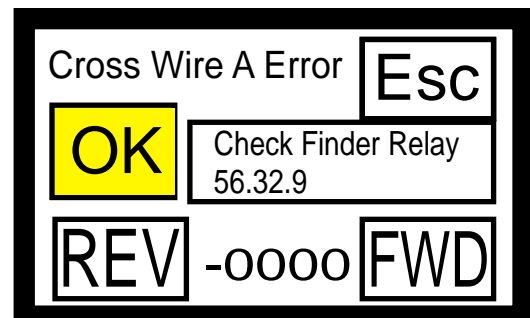


**Note:** If the arm is moving in the opposite direction, ("rev" arm will move towards "Port 1") in the panel, cross motor leads (Finder Relay) then reconfirm proper direction.



#### 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





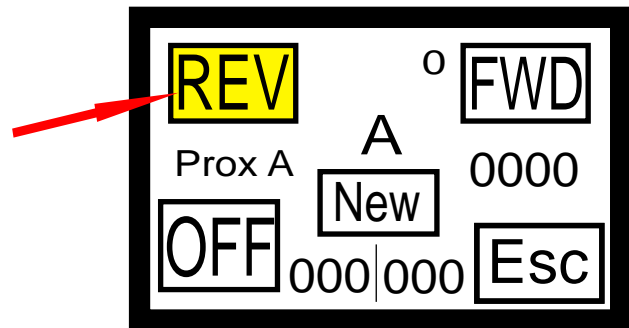
One Source...  
One Solution!

## 2009 Flatback Manual - Installers Guide

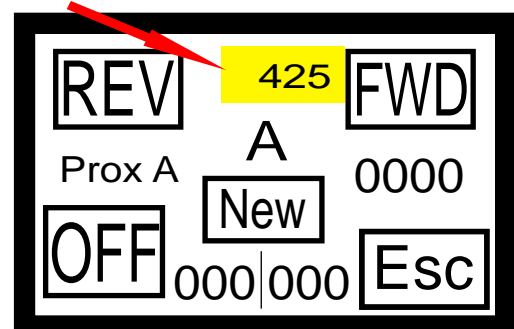
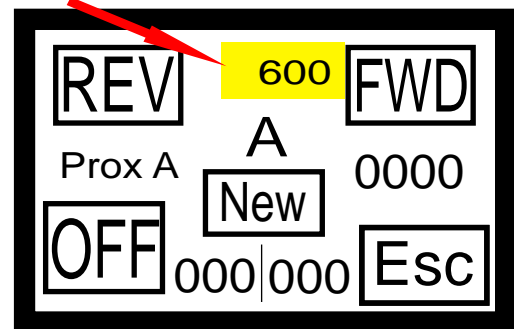
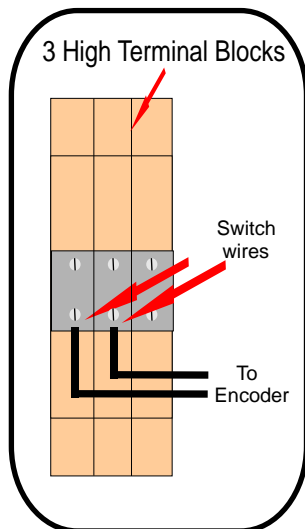
### Encoder Values And Wiring

#### 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.





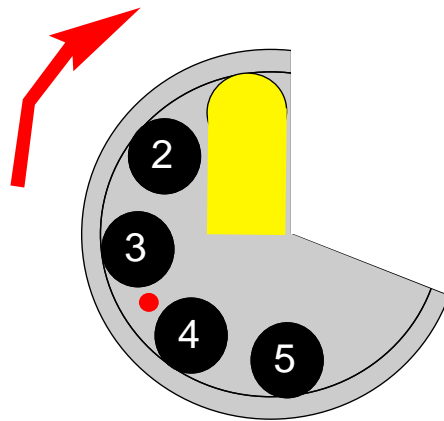
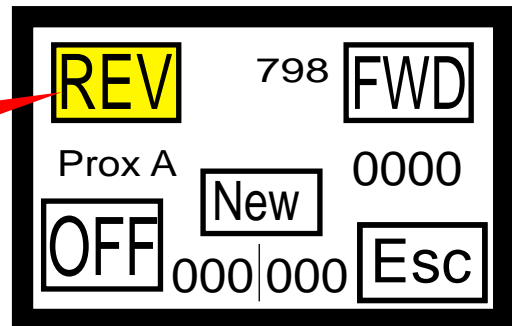
One Source...  
One Solution!

## 2009 Flatback Manual - Installers Guide

### Setting up Port Positions

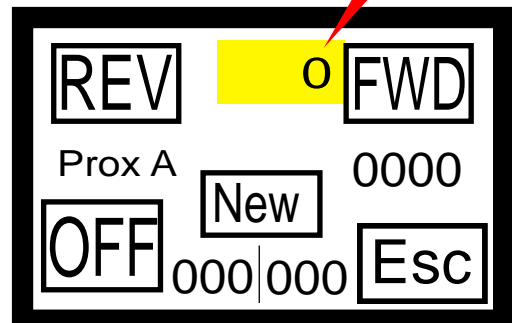
#### Step 9

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





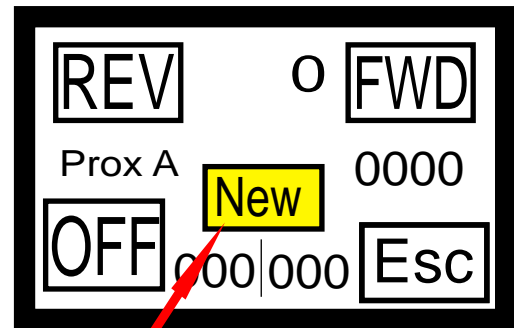
One Source...  
One Solution!

## 2009 Flatback Manual - Installers Guide

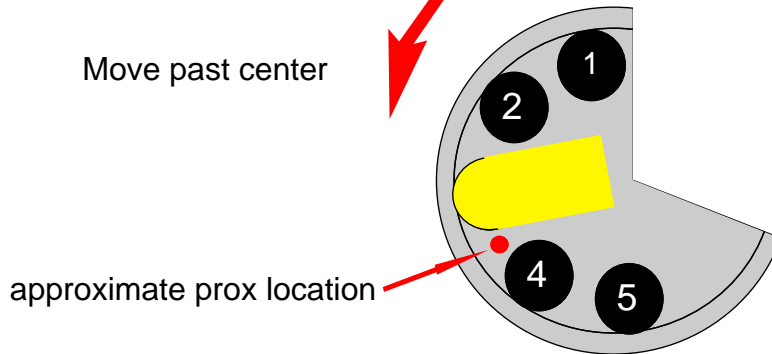
### Setting up Home Prox Position

#### 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



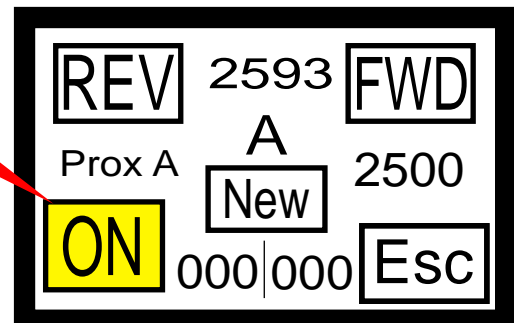
approximate prox location

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





One Source...  
One Solution!

## 2009 Flatback Manual - Installers Guide

### 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.

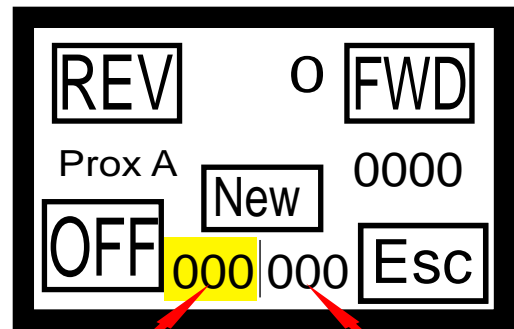
Please proceed to Step 12 on the following page

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

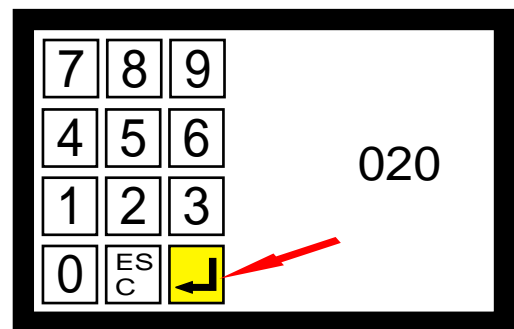


Min. Max.

#### Step 13

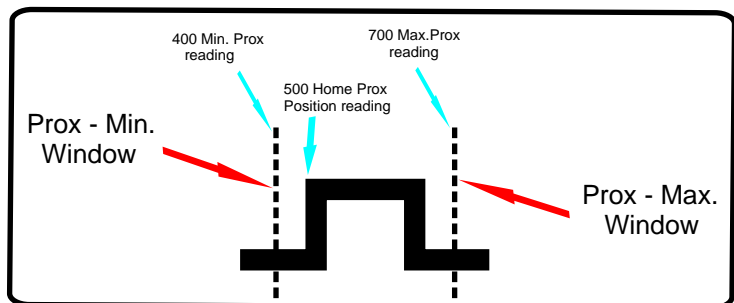
This key pad appears when you push "Min. Number Pad" enter the new Min. Prox Window setting

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

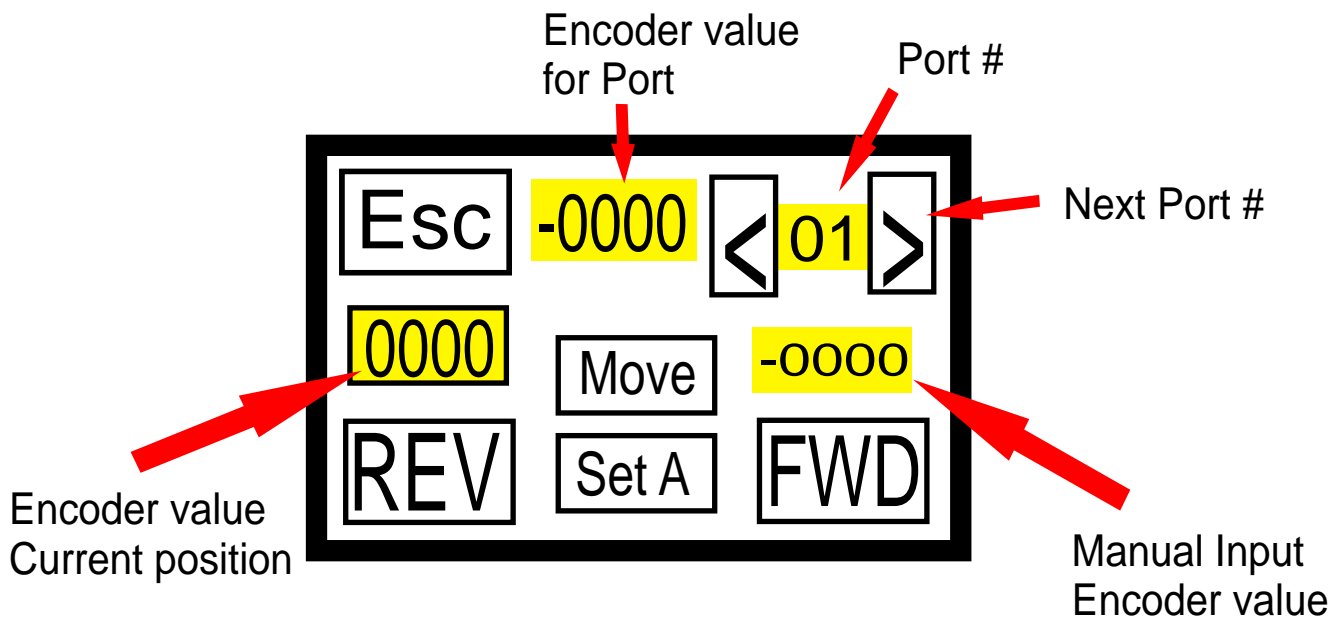




One Source...  
One Solution!

## 2009 Flatback Manual - Installers Guide

### Setting up Port Positions





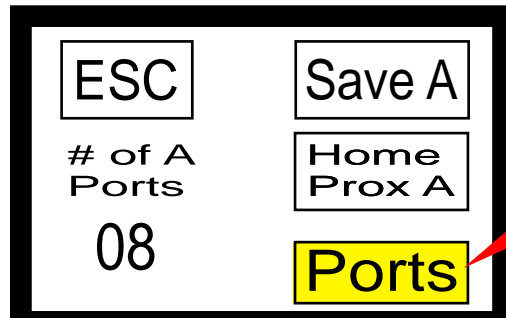
One Source...  
One Solution!

## 2009 Pendulum Manual - Installers Guide

### Setting up Port Positions

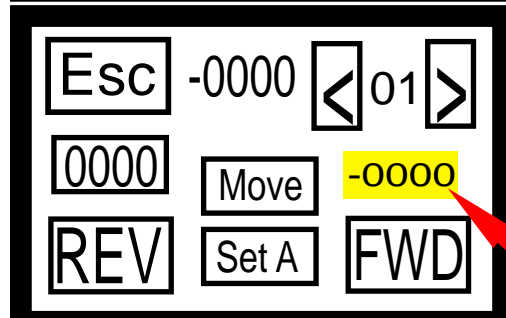
#### Step 1 Setting up Ports

Press "Ports"



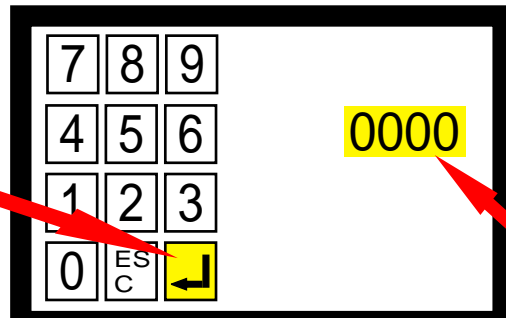
#### Step 2

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



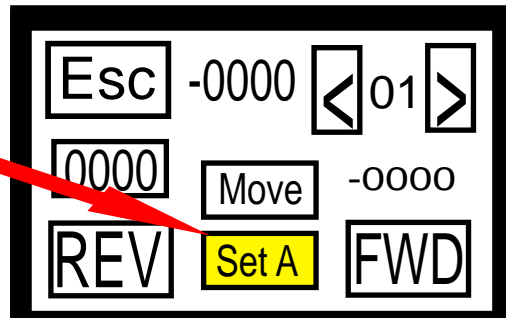
#### Step 3

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





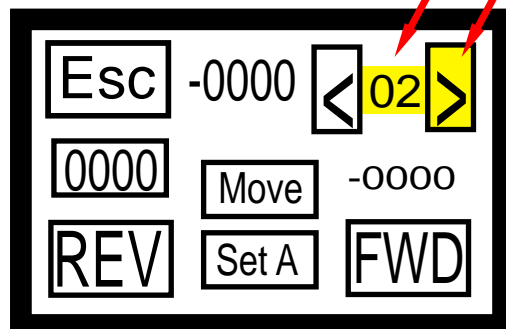
One Source...  
One Solution!

## 2009 Pendulum Manual - Installers Guide

### Setting up Port Positions

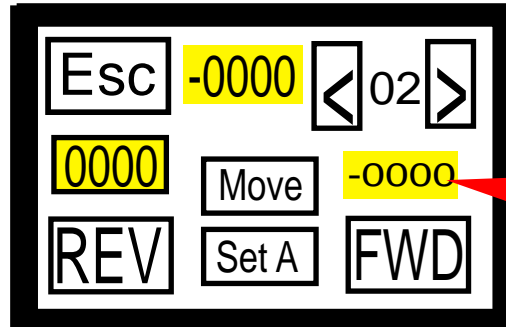
#### Step 5

Press ">" to port # 2



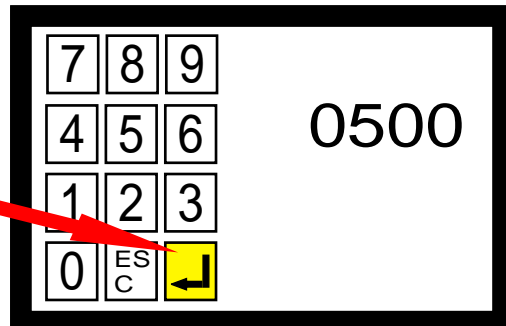
#### Step 6

Press "0000" a keypad will appear



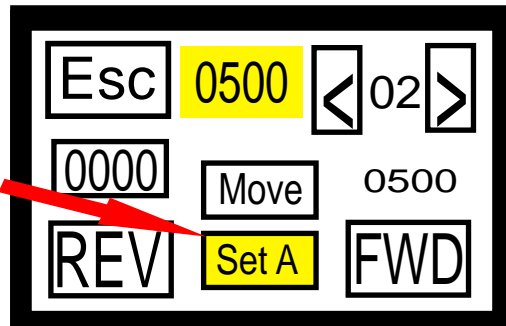
#### Step 7

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





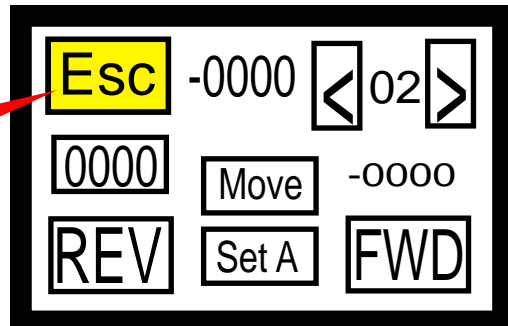
One Source...  
One Solution!

## 2009 Pendulum Manual - Installers Guide

### Setting up Port Positions

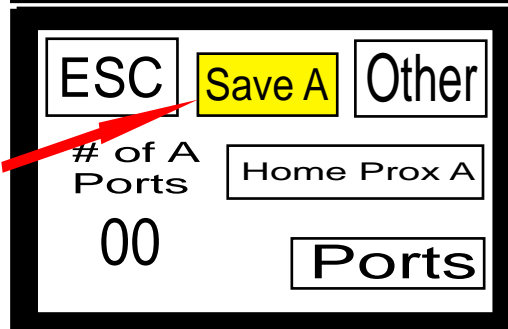
#### Step 5

Press "ESC"



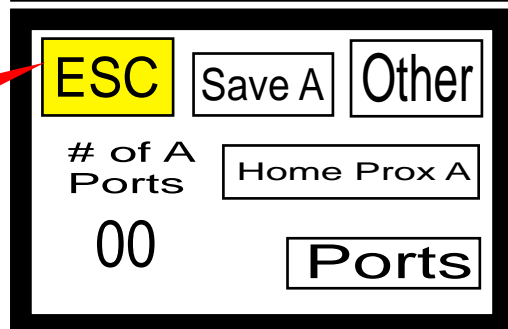
#### Step 6

Press "Save A"



#### Step 7

Press "ESC"  
test all positions





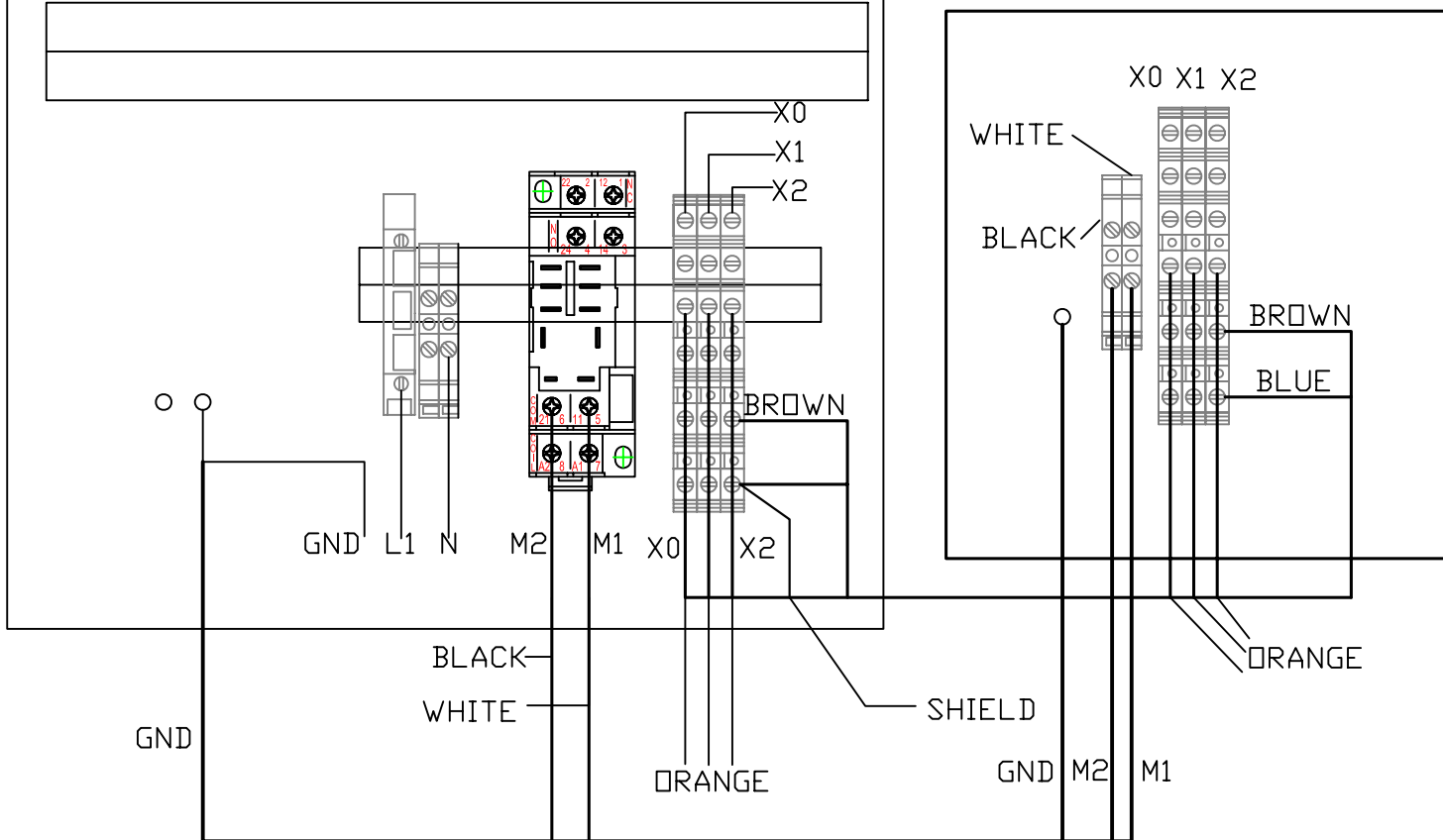
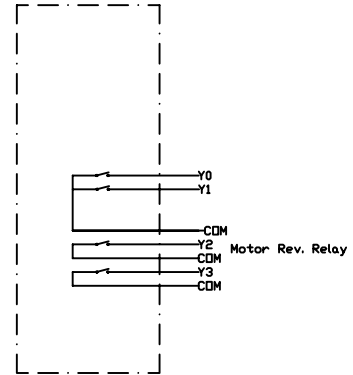
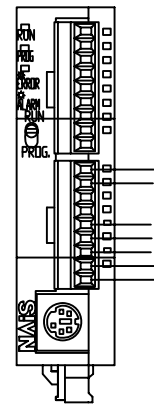
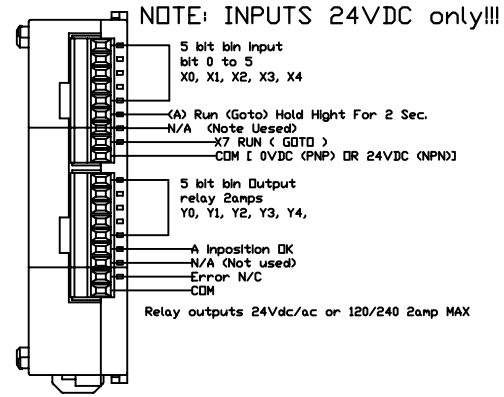
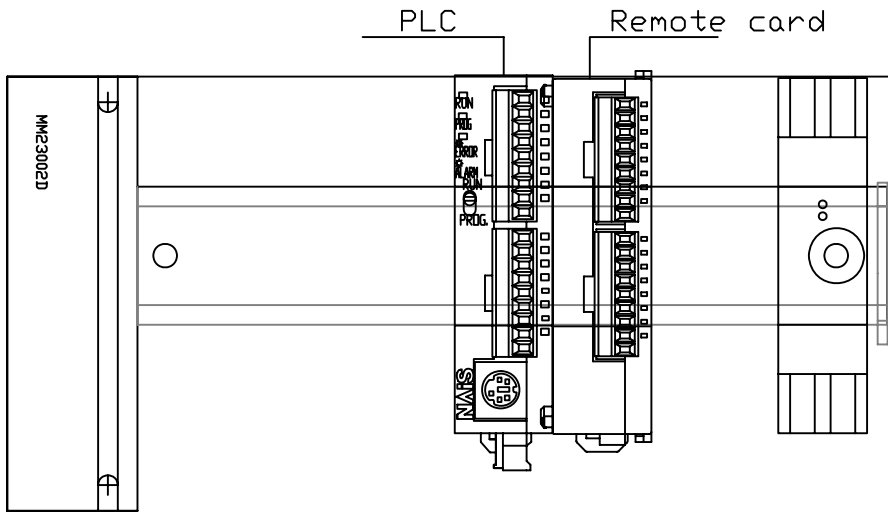
**One Source...  
One Solution!**

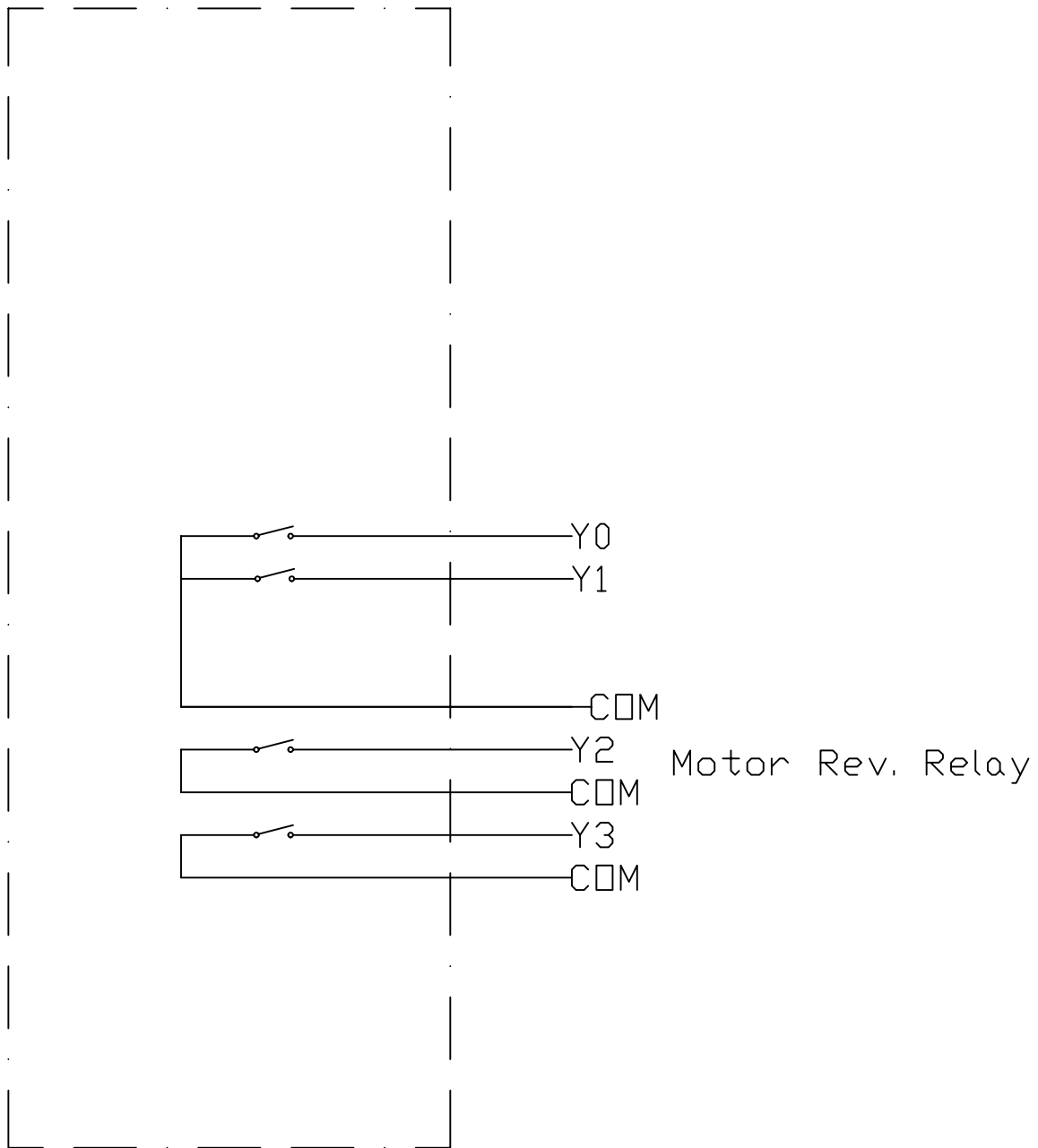
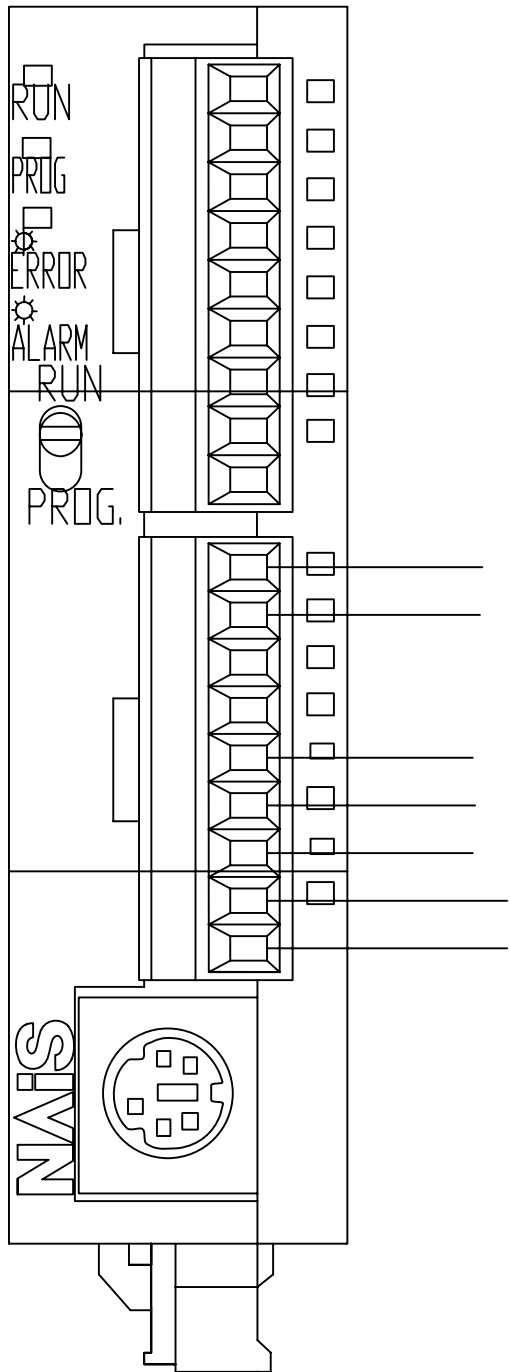
## 2009 Flatback Manual - Installers Guide

### Encoder Values

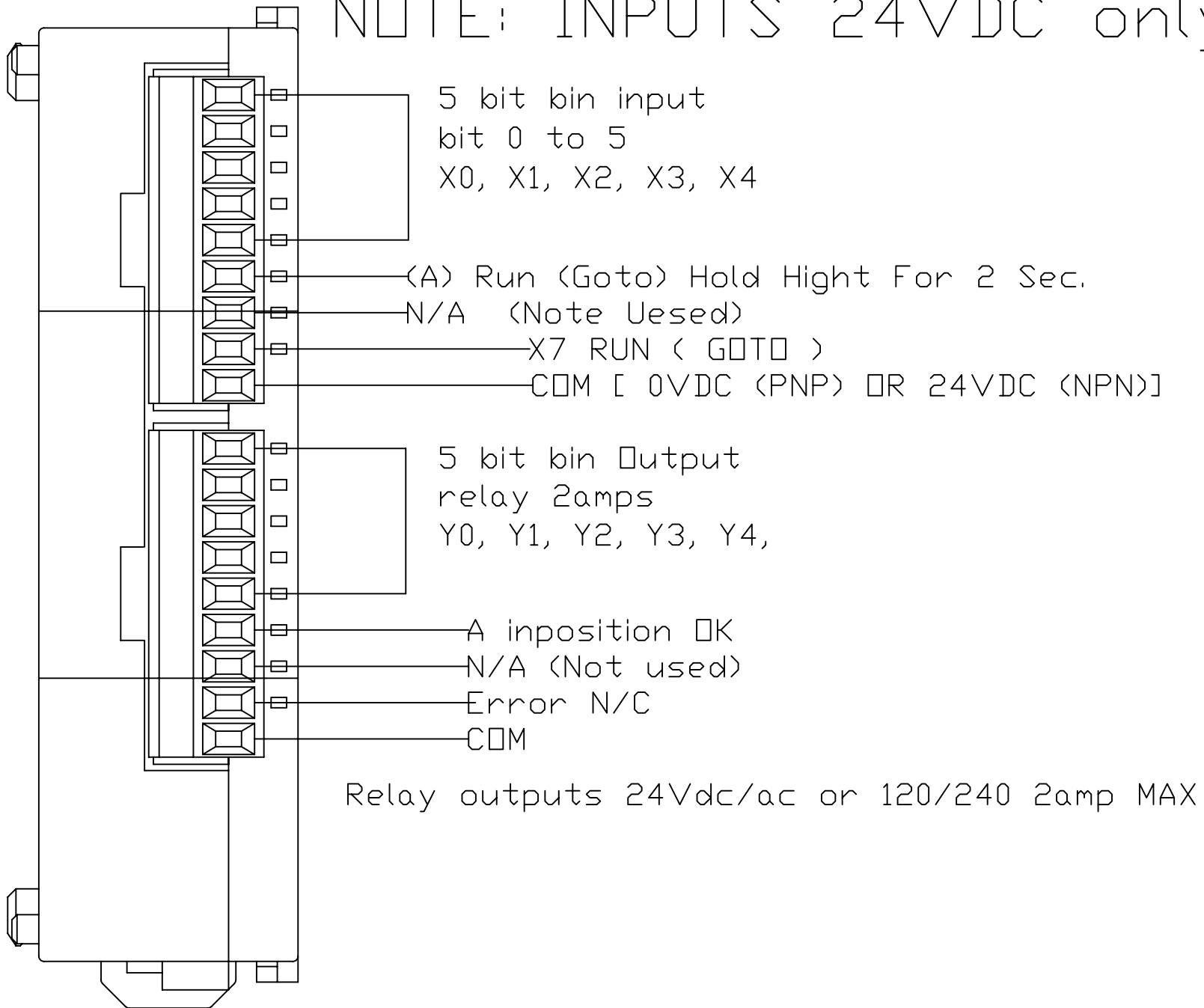
# Port Settings

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			

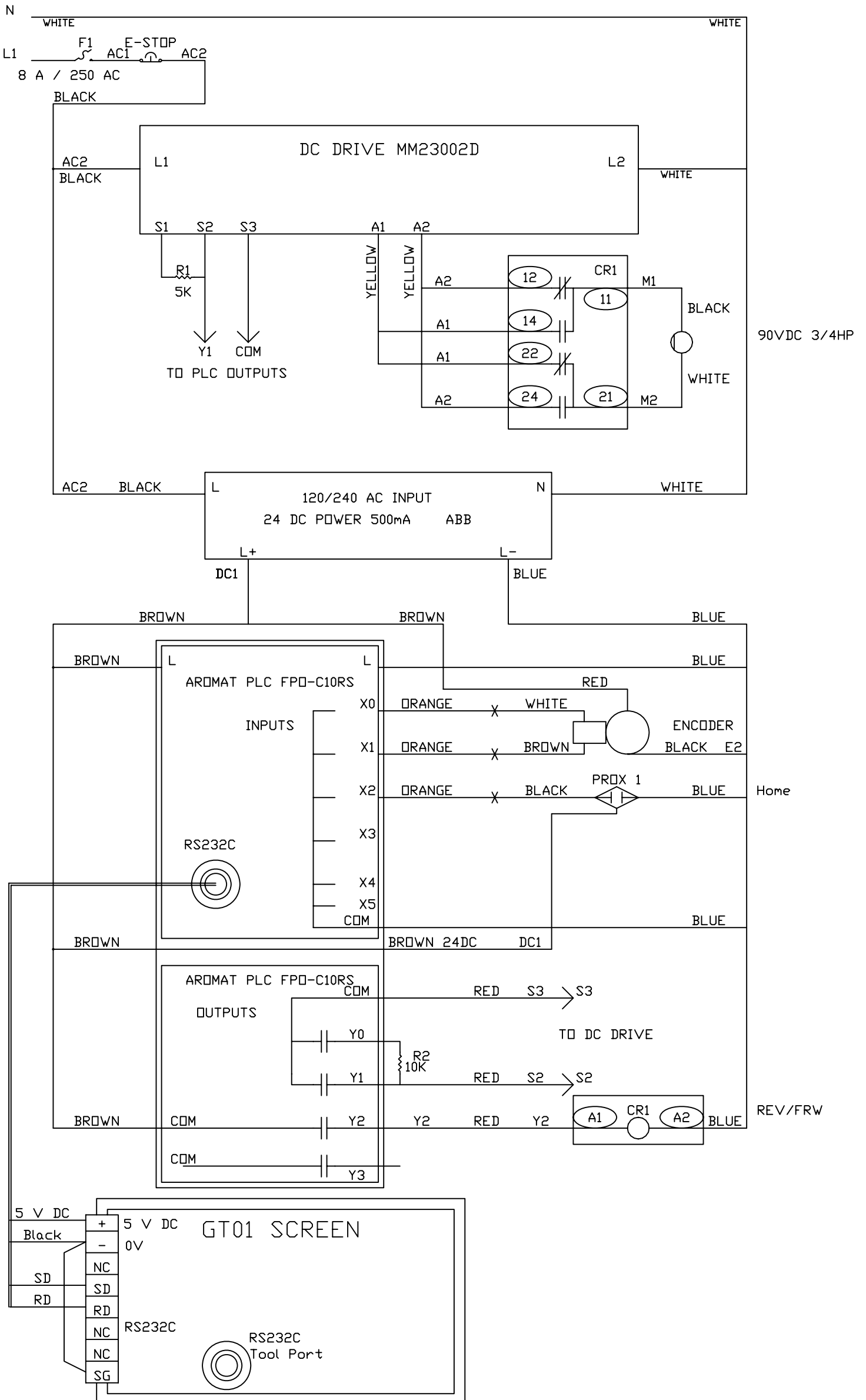




NOTE: INPUTS 24VDC only!!!



S-040610

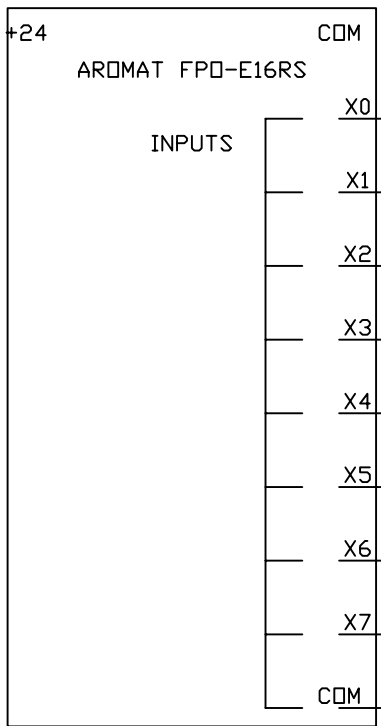


BY: SADHU GILL

24Vdc

COM

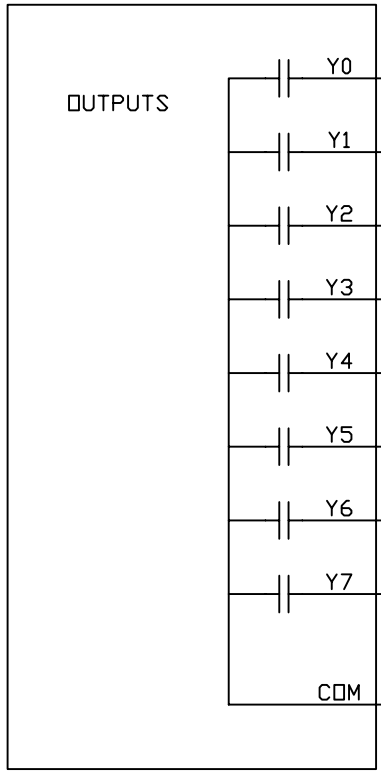
BROWN



ALL INPUTS  
24VDC  
PNP or NPN  
BINARY INPUT

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

COM 0VDC



All outputs are  
Relays 250Vac 2amp

BINARY OUTPUTS

A Inposition OK

N/A

ERROR

COM