

ONE SOURCE. ONE SOLUTION.

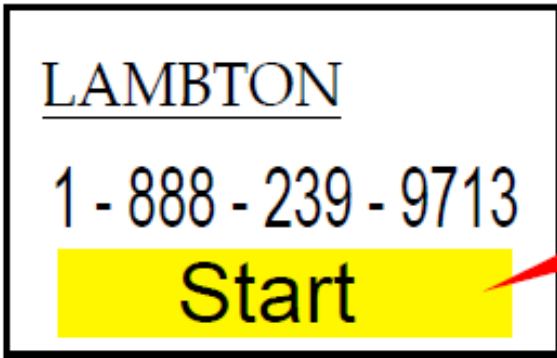


V 2010

**Electric Controls for Turn-head or
Single inlet Pendulum Distributor
Installers Manual**

Operation Manual

Start Up Mode



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

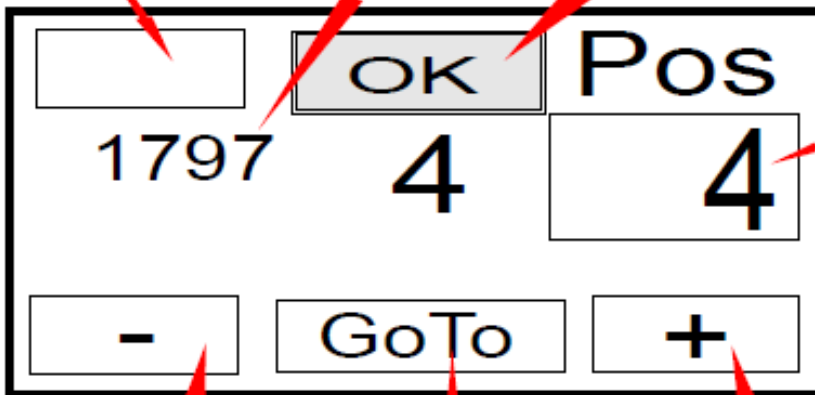
Press the **Start** button to get into operation mode

BACK
Return to start screen

Encoder Value

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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Setting Home Prox P9

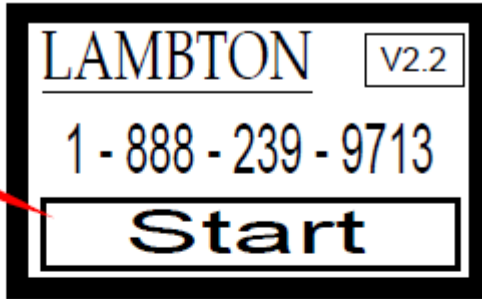
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User Guide

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

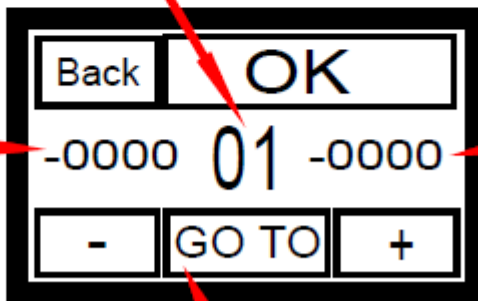
Press **"Start"**



Actual Port Position

When **"Start"** is selected this screen appears

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



Errors guide

Overload Error

Press **Reset** and **ECS**, if this continues

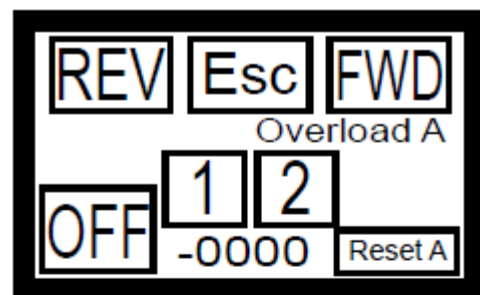
This could be one of two problems,

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



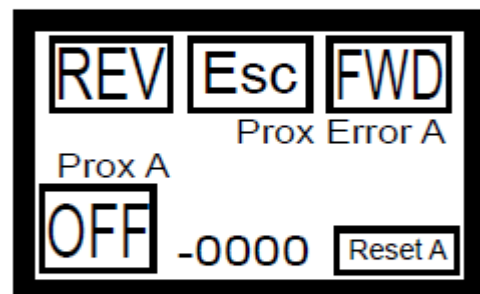
Prox Error

Confirm location of Prox, (visually inspect prox)

physical confirm all positions

refer to page 9 for prox location.

In case of emergency unplug prox



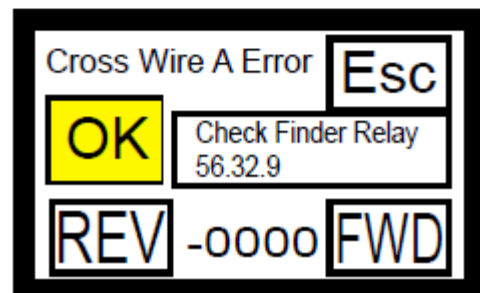
Cross Wire Error

If this error occurs during installation refer to page 6

if occurs after, test Finder Relay

physically confirm all positions

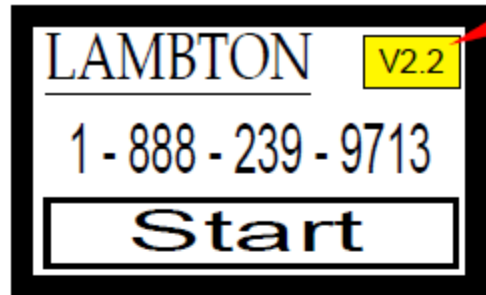
if cross wire has been corrected **OK** will appear while your holding the **FRW** or **REV** Button



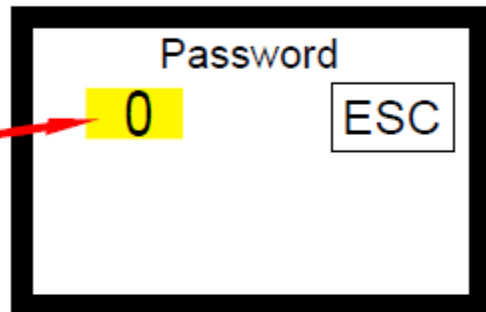
Installation Guide

Hidden Button

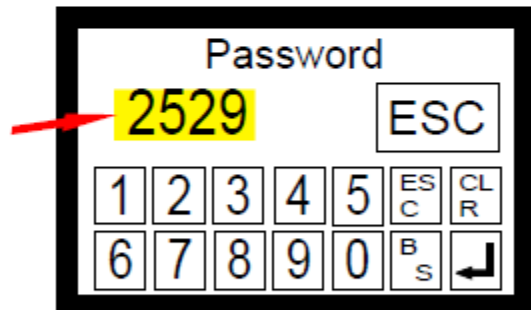
Press and hold top right for
4 seconds to get into the
set up mode



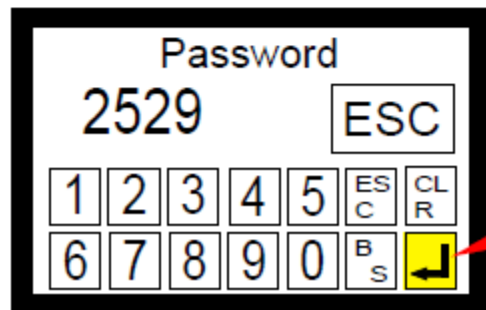
Push on Numbers
Keypad will appear



Enter setup password
2529



After entering password
2529 then press Enter



Setting up Number of Ports

Step 1

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

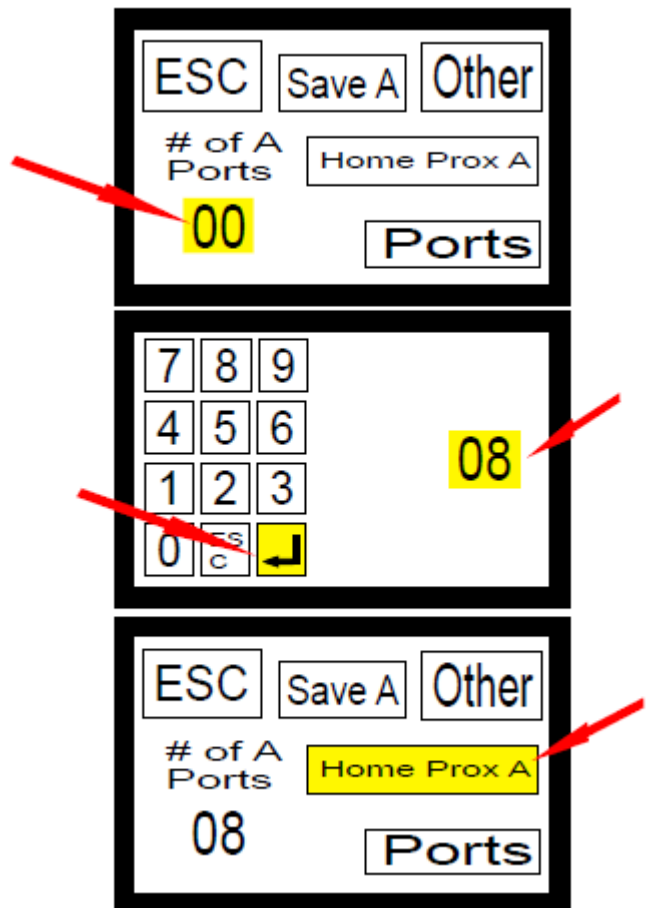
Step 2

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

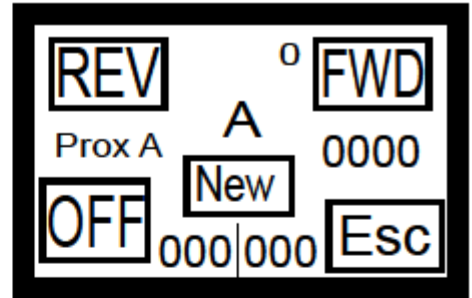
(Note that some models do
not include a proximity sensor
and rely only on the encoder
for positioning)



Setting up Port Positions

Step 5

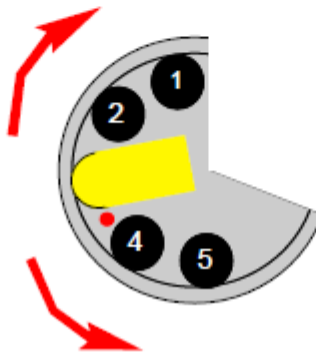
This screen appears next
Don't press any buttons yet,
This next step requires two people
we are first going to check if the
motor and the encoder are wired
correctly



Motor Direction And Wiring

Step 6

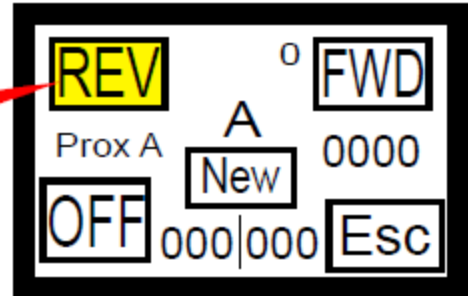
The diagram to the right is the pendulum,
before beginning confirm that it has room
to move in both directions.



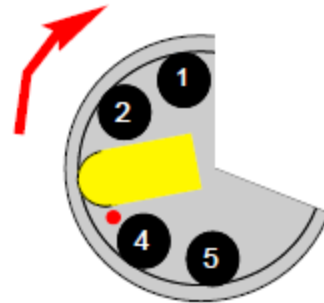
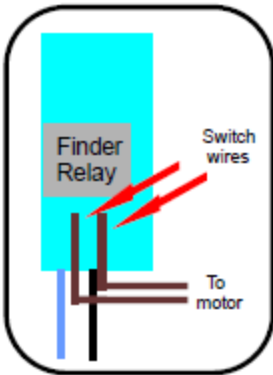
Motor Direction And Wiring

Step 7

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

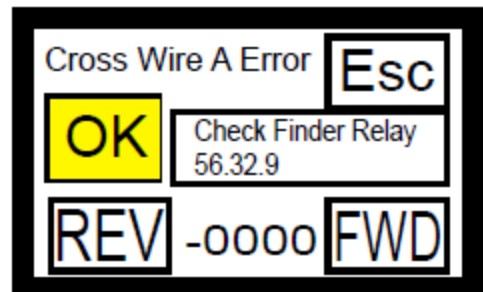


Note: If the arm is moving in the opposite direction, (rev arm will move towards Port 1) in the panel, cross motor leads (Finder Relay) then reconfirm proper direction.



Cross Wire Error

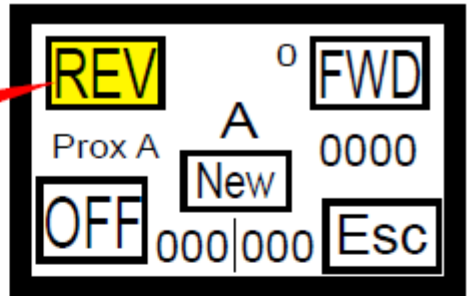
If this error occurs during installation refer to page 5
if occurs after, test Finder Relay
physically confirm all positions
if cross wire has been corrected **OK** will appear while
your holding the **FRW** or **REV** Button



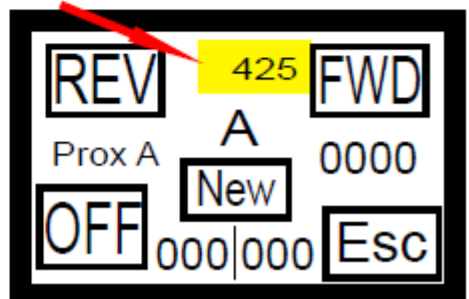
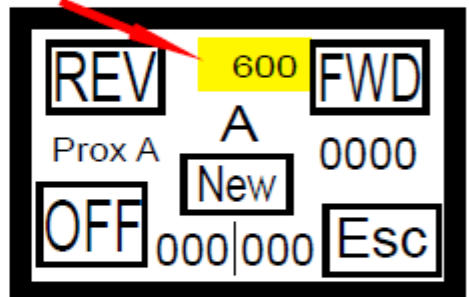
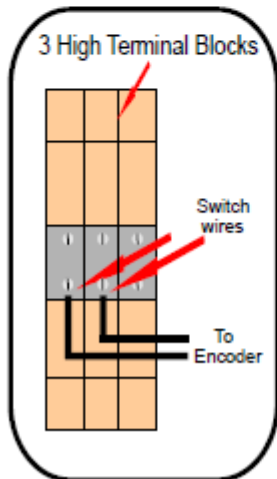
Encoder Values And Wiring

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**



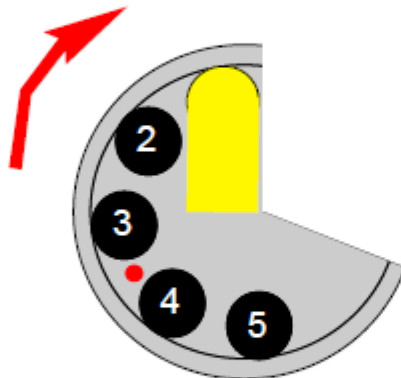
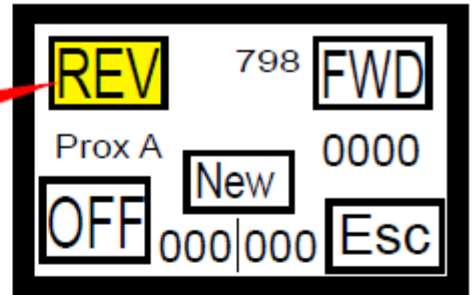
Note: If the Encoder Values is moving in the opposite direction, in panel cross wires **"X0"** and **"X1"** then reconfirm proper direction.



Setting up Port Positions

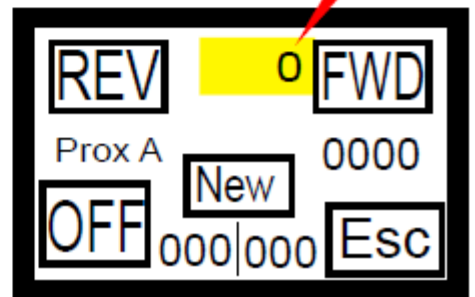
Step 9

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

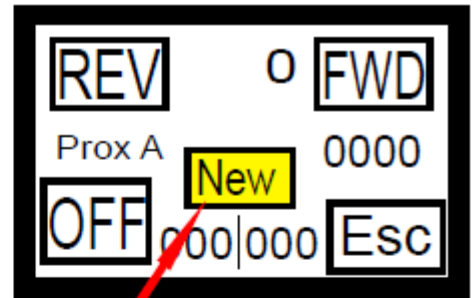
Once the arm is aligned with Port 1
Then push and hold **"Reset Encoder"**
Encoder values should go to zero



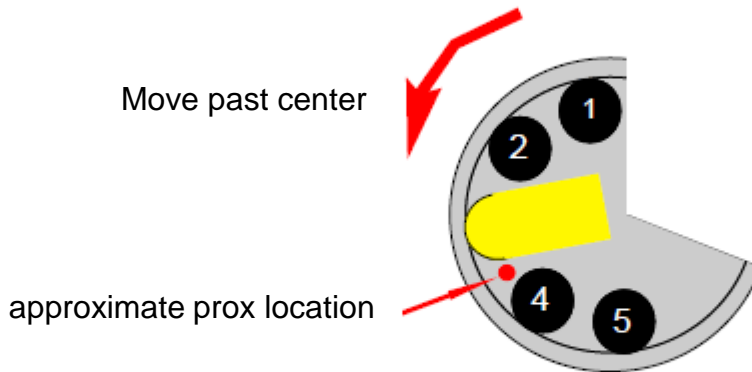
Setting up Home Prox Position

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.



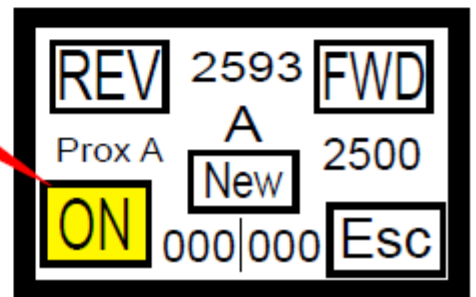
Move past center



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

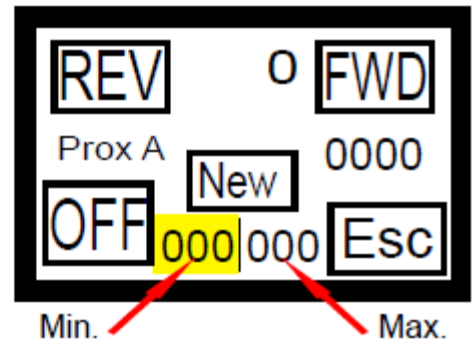
Setting up Home Prox Window

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

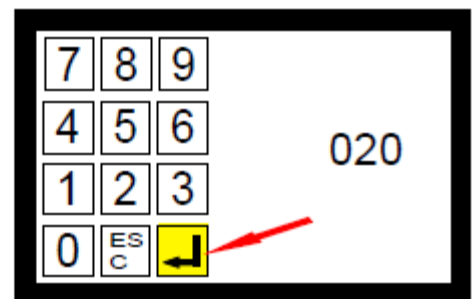
Contact Factory before proceeding with this step. To set the **Prox Window**, notice the two number displays, the numbers to the left are the Min. Window to the right are the Max. Window

Press the “ **Min. Number Pad**” on the left first



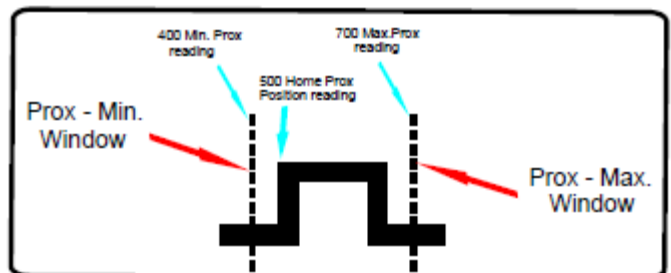
Step 13

This key pad appears when you push Min. Number Pad
enter the new Min. Prox Window setting
Then press “**Enter**” ()



Prox Window

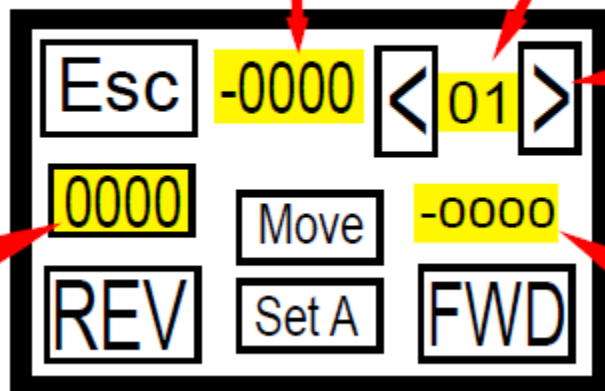
Factory setting for Min. window prox is 100 and Max. is set at 200
For Example if the home Prox Position is 500
Min. window would be 400 and Max is 700



Setting up Port Positions

Encoder value
for Port

Port #



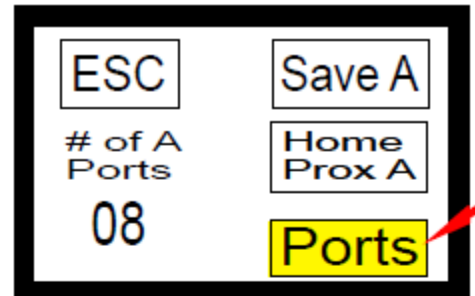
Next Port #

Encoder value
Current position

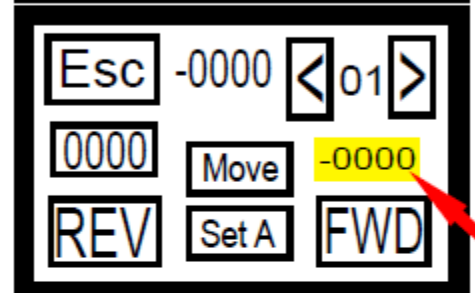
Manual Input
Encoder value


Setting up Port Positions

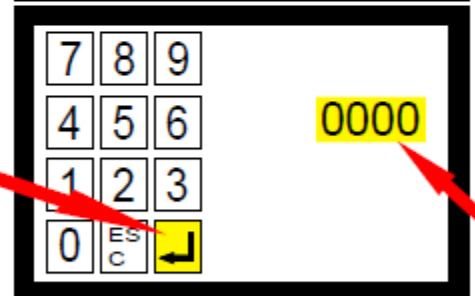
Step 1 Setting up Ports
Press “Ports”



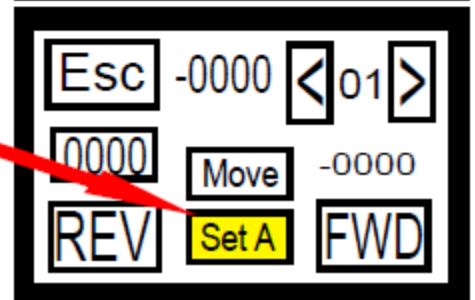
Step 2
To set the number of ports for A
Press the **numbers** and a key pad
will appear



Step 3
Enter the Port 1 position
ex. **0000** Then press enter 



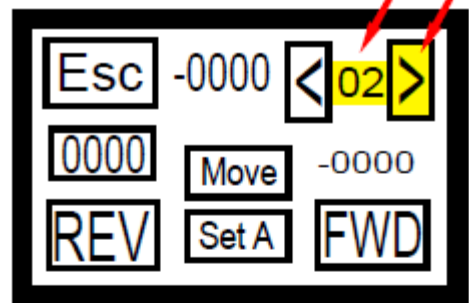
Step 4
Then press “Set A”
Now position **Port 1** has been
set to **0000**



Setting up Port Positions

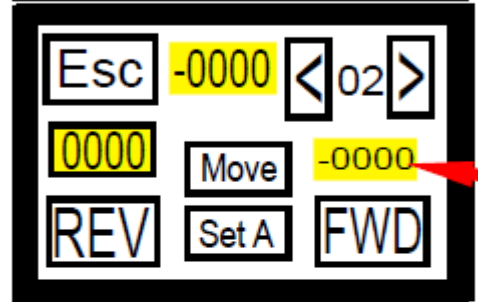
Step 5

Press ">" to port # 2




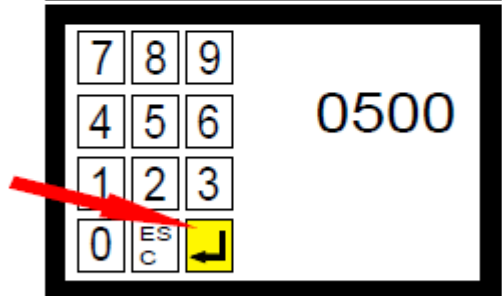
Step 6

Press **0000** a keypad will appear



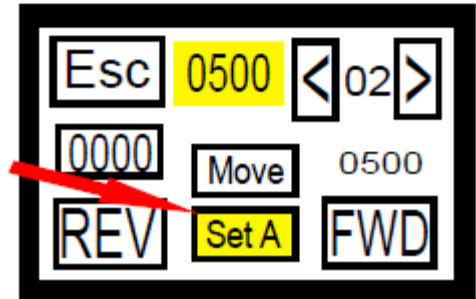
Step 7

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



Step 8

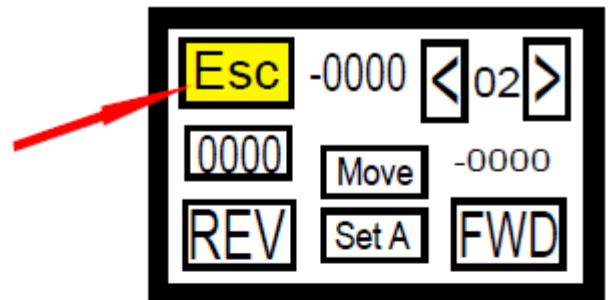
Then press "**Set A**"
Now position **Port 1** has been
set to **0000**



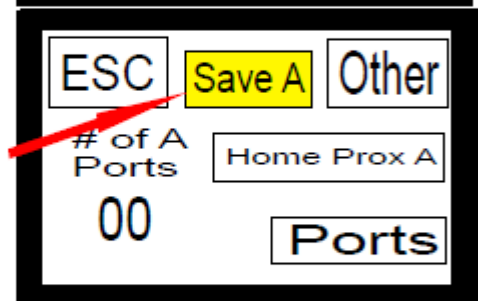
Repeat this process all ports and verify all ports

Setting up Port Positions

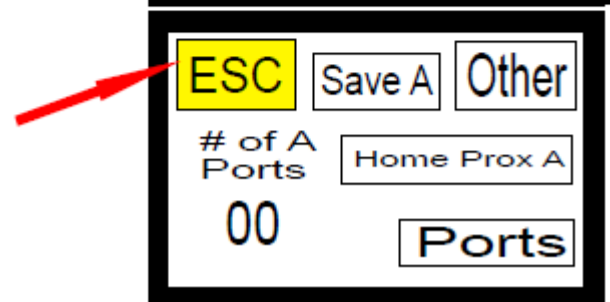
Step 9
Press "ESC"



Step 10
Press "Save A"



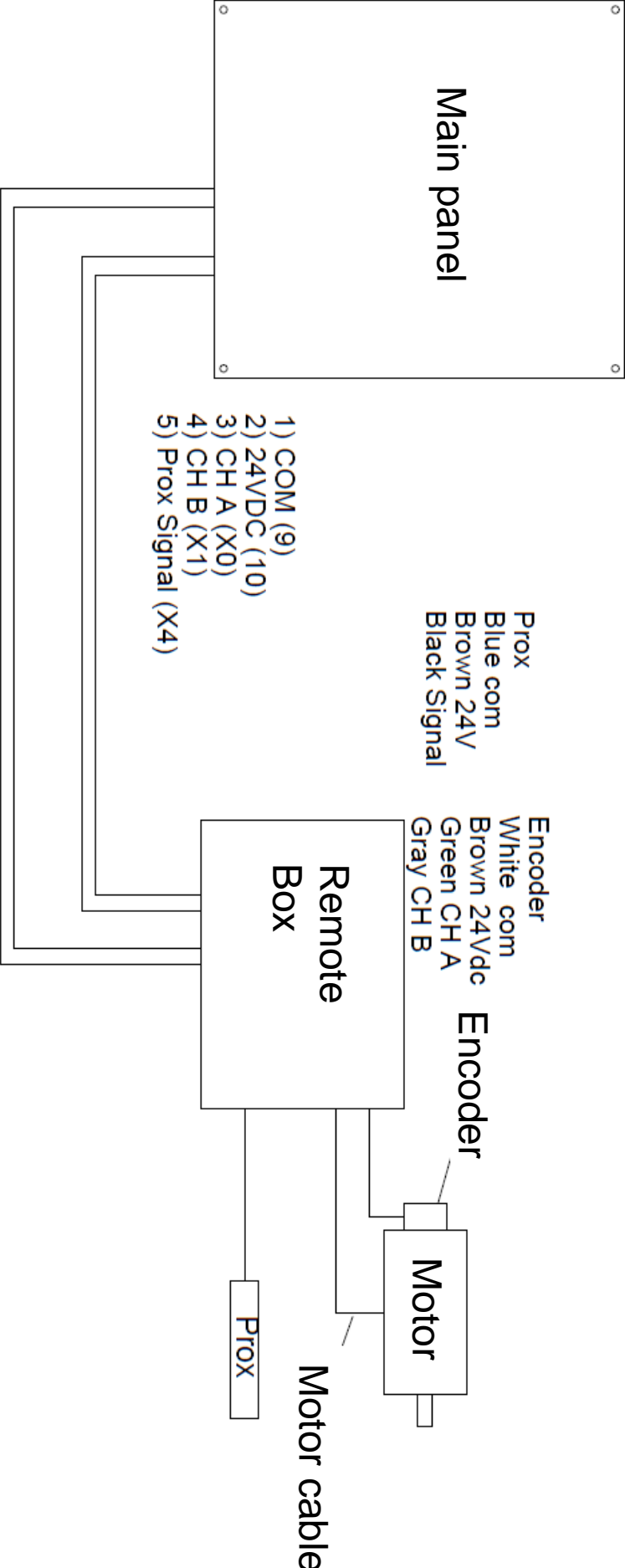
Step 11
Press "ESC"
test all positions



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			



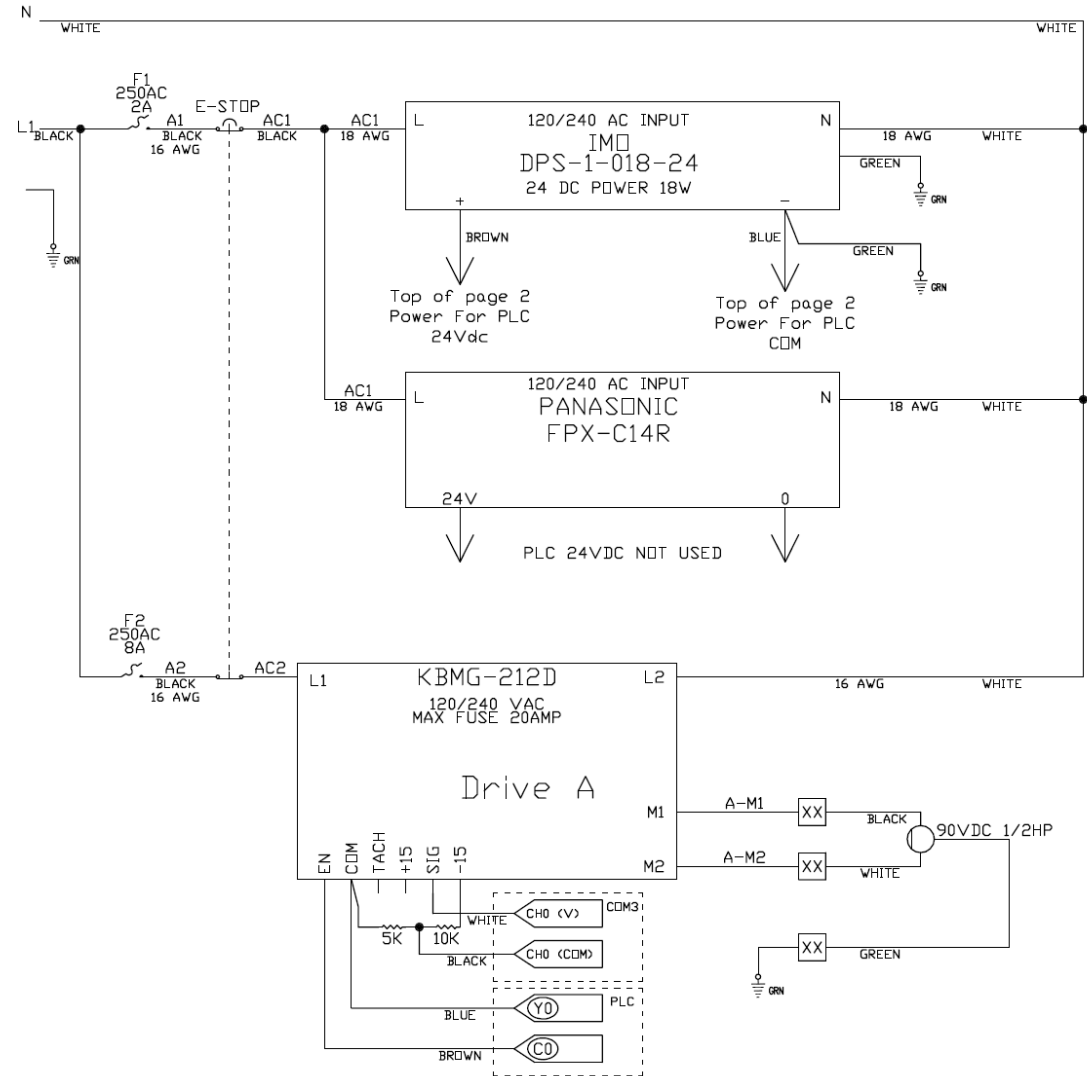
NAME:

LAMBTON CONVEYOR

DATE:

SG-360-120-2013-V0.1

2013-01-01



BY:

SADHU GILL

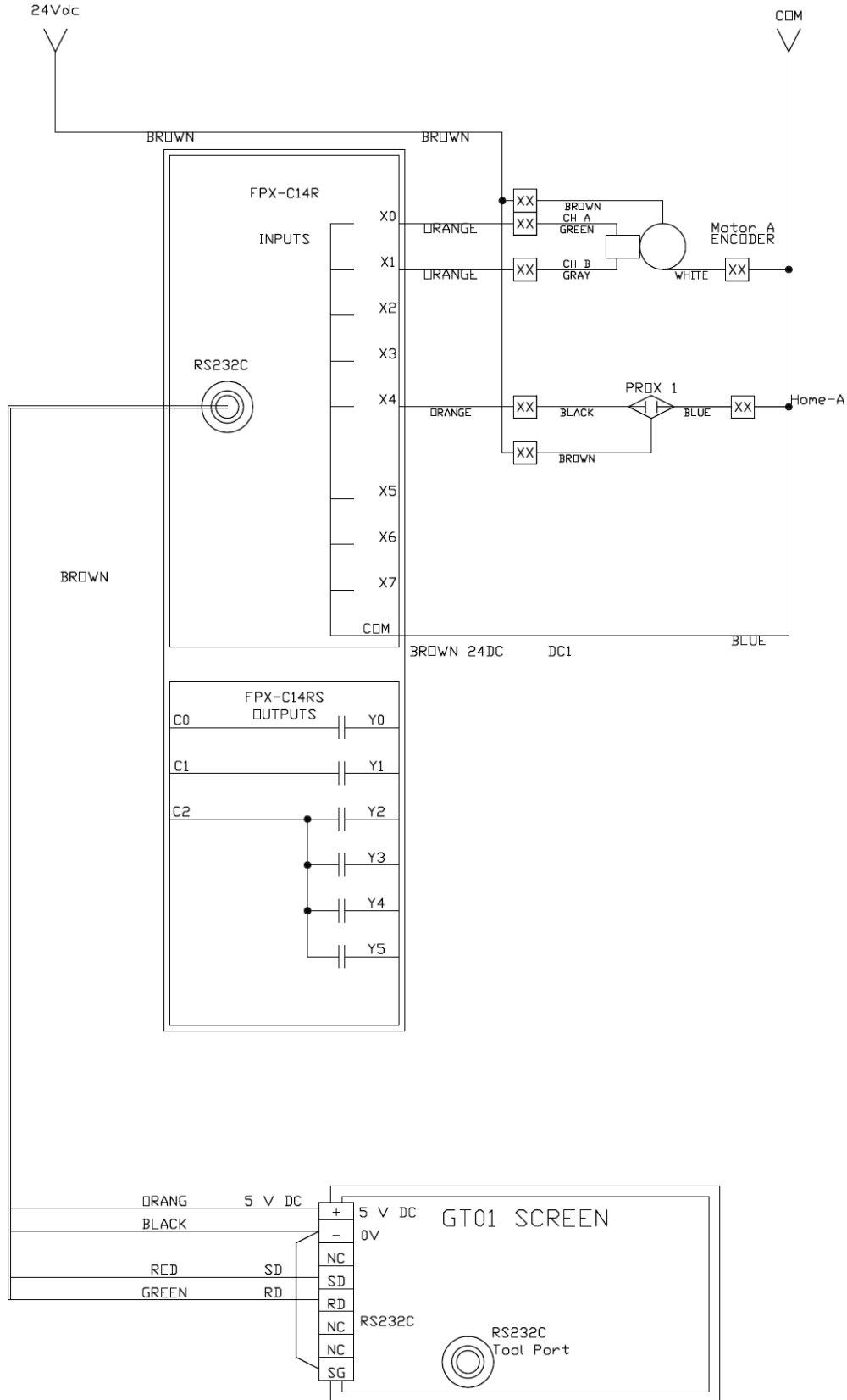
NAME:

LAMBTON CONVEYOR

DATE:

SG-P-2-120-2013-V0.1

2013-01-01



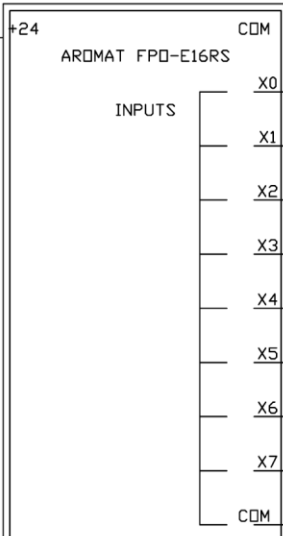
BY:

SADHU GILL

24Vdc

COM

BROWN



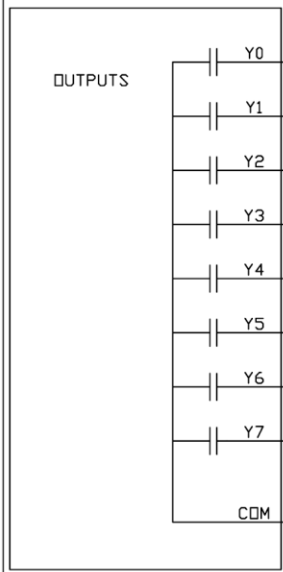
ALL INPUTS
24VDC
PNP or NPN
BINARY INPUT

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

N/A

N/A

COM 0VDC



All outputs are
Relays 250Vac 2amp

BINARY OUTPUTS

A Inposition OK

N/A

ERROR

COM

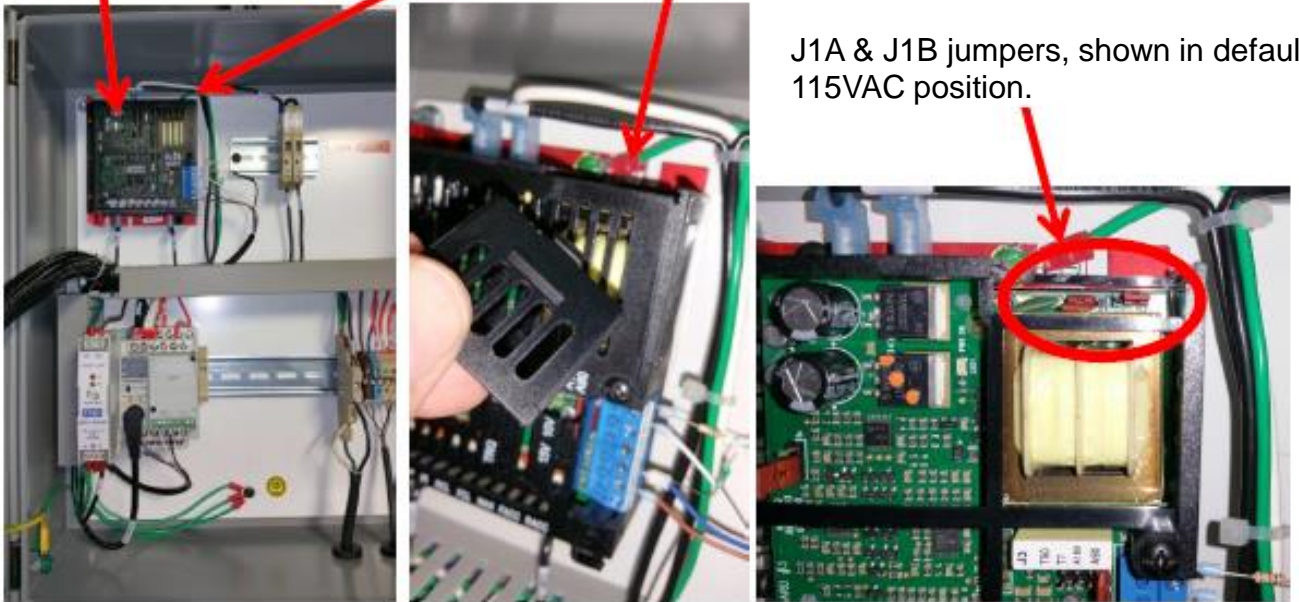
INSTRUCTION TO CHANGE AC LINE INPUT VOLTAGE TO 230VAC

115 VAC is the default setting from the factory. To change to 230VAC input voltage, follow the steps outlined below.

1. Locate J1A & J1B jumpers on the DC Drive

Open the small door on top of the drive (typical drive placement) to reveal the J1A & J1B jumpers. The door has a tab near the base of the drive that needs to be released in order to remove the door. If greater access is needed the face plate can also be removed.

DC Drive



2. To change input voltage to 230VAC move both jumpers to the inside position, as shown below. No other changes are required.

115VAC JUMPER CONFIGURATION
(TYPICAL FACTORY DEFAULT SETTING)

230VAC JUMPER CONFIGURATION

