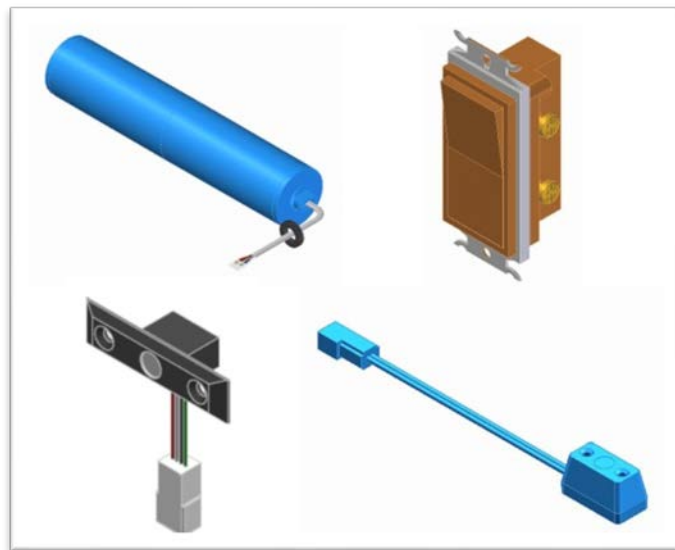




CHECKLANE TROUBLE SHOOTING & REPLACEMENT PARTS GUIDE



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REQUIRED TOOLS:

Tape
String
Ohm meter

TROUBLE SHOOTING



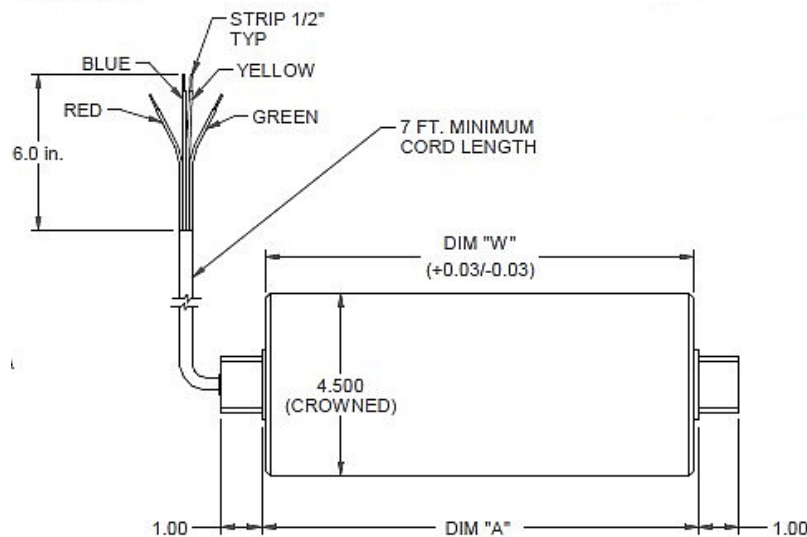
WARNING

TO REDUCE THE RISK OF ELECTRIC SHOCK OR PERSONAL INJURY, DISCONNECT ELECTRICAL POWER AND DISCHARGE MOTOR CAPACITOR BEFORE WORKING ON ELECTRICAL SYSTEM.

<u>PROBLEM</u>	<u>POSSIBLE CAUSE</u>	<u>SOLUTION</u>
Motor will not run	Electrical power is off	Replace blown fuse or reset circuit breaker
	Loose wire connections	Check wires and tighten loose connections
	Defective rocker switch	Check continuity, replace bad switch
	Defective motor capacitor	Check continuity, replace bad motor capacitor
	Defective motor	Check continuity, replace bad motor
	Connector plugged into wrong socket	Check per electrical drawing and move if necessary
Excessive Belt wear	Belt not aligned	Readjust belt alignment
	Transport is not level	Adjust leveling screws
Belt will not move, but Motor runs	Belt is too loose	Readjust belt tension and alignment
Belt / Motor squeals	Belt too tight	Readjust belt tension and alignment

CHANGE 4-WIRE MOTOR TO 5-WIRE MOTOR

1. Tie the yellow and the black together and hook into the white wire in the grey box.
2. Locate the black wire in the grey box with the piggyback connector and attach it to the capacitor.
3. Attach the blue wire to the piggyback with the black wire. The red wire is left alone (not attached to other wires).
4. Attach the green wire to the green wire.



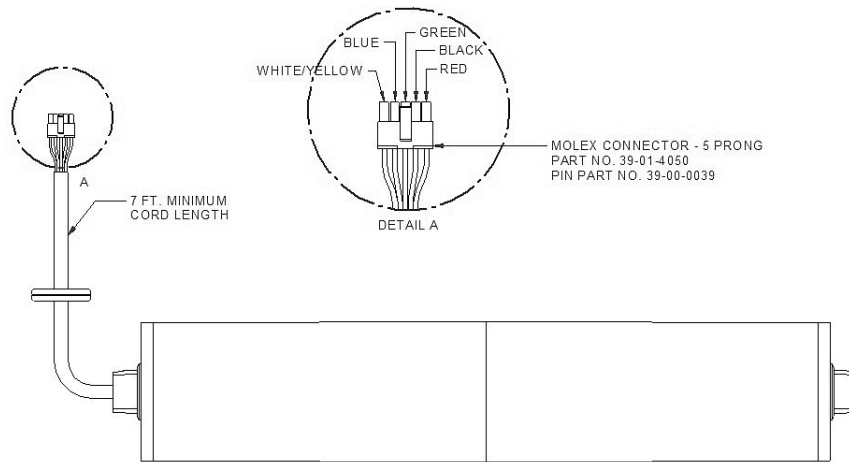
PROCEDURE TO DETERMINE THE HEALTH OF A MOL MOTOR

(NOTE: Testing is performed using an Ohm meter, requiring an operator familiar with its use and best practices.)

Winding Resistance Test

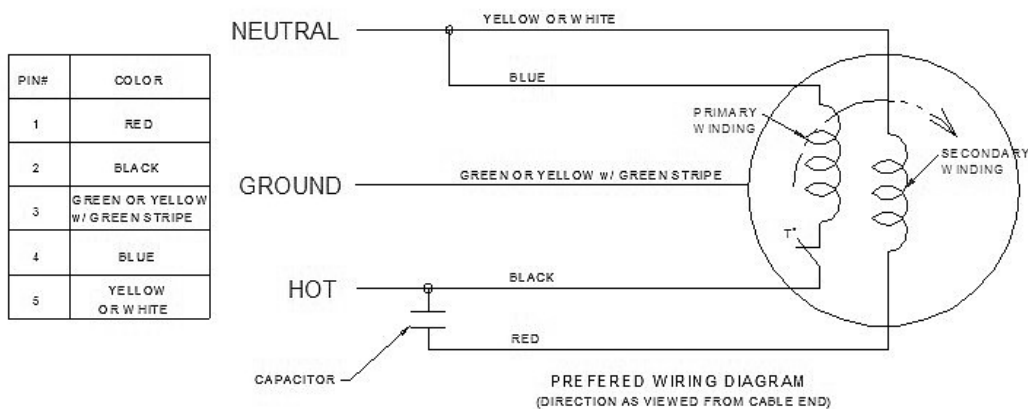
1. Disconnect the incoming power lead from the MOL motor at the Molex connector (the capacitor must be disconnected for proper testing).
2. Measure the resistance of the Primary winding (use the blue and black wires on the Molex connector). Reading must be in the range of 6.21 - 7.59 Ohms.

3. Measure the resistance of the Secondary winding (use the red and yellow [white] wires on the Molex connector). Reading must be in the range of 12.06 - 14.74 Ohms.



Winding Short Circuit Test

1. Check the ground continuity of the Primary winding (use the black and green wires on the Molex connector). There should be no continuity (infinite resistance=open circuit).
2. Check the ground continuity of the Primary winding (use the red and green wires on the Molex connector). There should be no continuity (infinite resistance=open circuit).
3. Check the continuity between the Primary and Secondary windings. (use the red and black wires on the Molex connector). There should be no continuity (infinite resistance=open circuit).
4. If the winding resistances are outside of the prescribed range or if any continuity test is positive, the motor is bad and should be replaced.



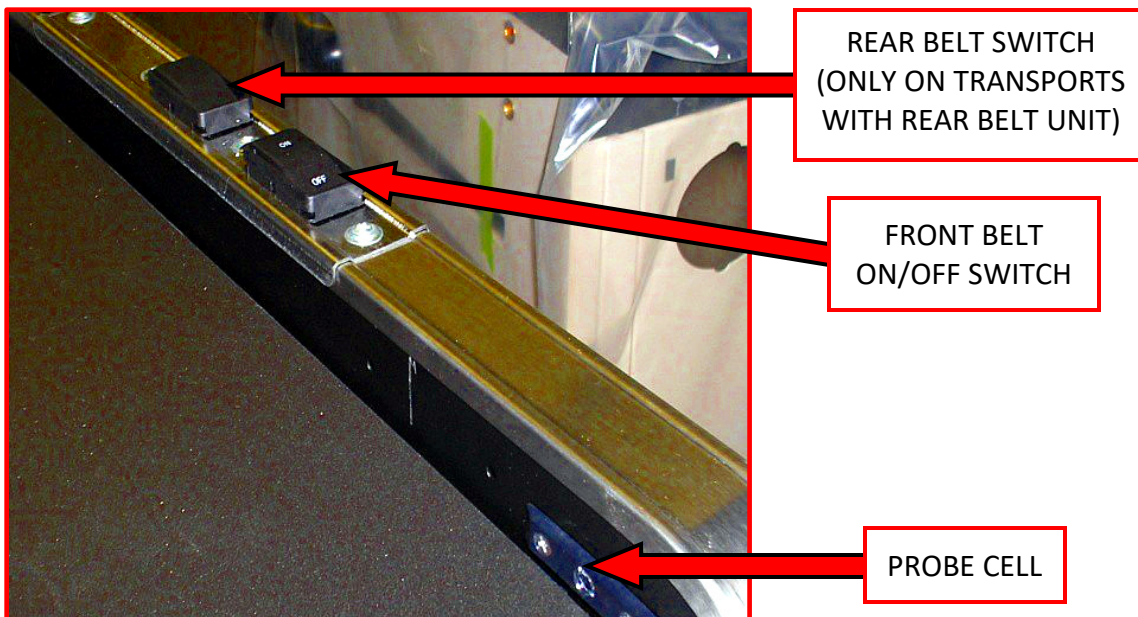
TO REVERSE ROTATION INTERCHANGE
BLACK AND BLUE WIRES OR USE REVERSING CLIP 70024327

PHOTOELECTRIC MAINTENANCE

Transports with Photoelectric Belt Control are designed to provide maximum cashier efficiency. The Photoelectric System operates with invisible light being beamed into a Photoelectric Probe Cell. If this light beam is interrupted, the belt motor will stop.

The Photoelectric System consists of three main components:

1. A Probe Light (sender) located in the Cashier's side of the Transport and connected to the gray cable.
2. A Probe Cell (receiver) located in the Customer's side of the Transport and connected to the black cable.
3. A Photoelectric Control (PM Control Module) on the Control Box located inside the body of the Transport (on the electrical panel).



FRONT BELT WON'T START

1. Ensure front belt is turned on.
2. Ensure eye beam path is clear.
3. Check footswitch operation (if included).
4. Open the electrical access door and check the following:

- Does the green light on the Tri-tronics control module turn on and off when a hand is passed through the eye beam path?

Yes – Eye is OK.

Ensure the circuit breaker is not tripped at the store's power source.

Call a certified electrician to perform all other steps listed below.

Check all wiring connections. Replace Tri-tronics control module.

No - Replace electric eyes.

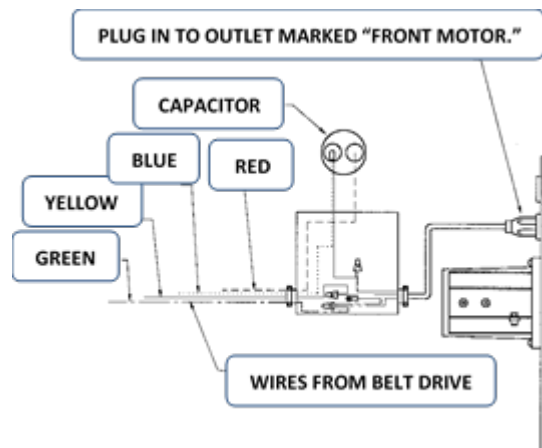
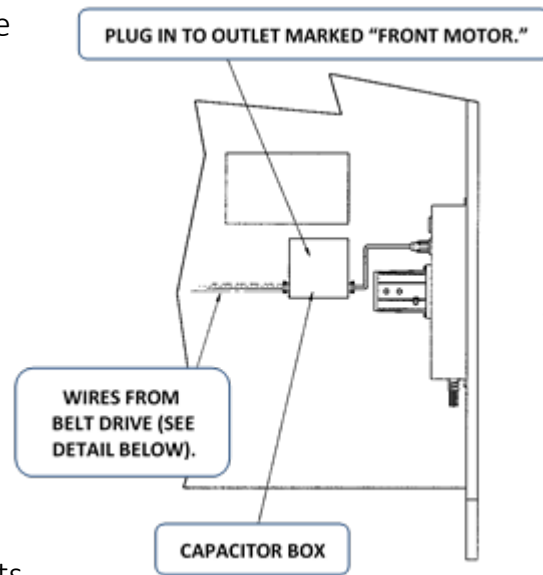
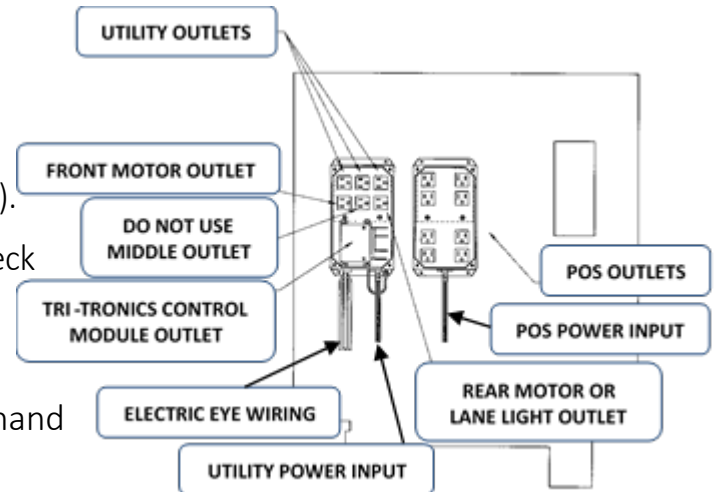
- Is the red light on the Tri-tronics control module on?

Yes - unplug cord running from capacitor box (should be plugged into outlet marked front motor) and plug into one of the outlets marked utility.

If plugging into utility outlet makes belt run, replace Tri-tronics control module - be sure to plug cord back into outlet marked front motor.

If belt doesn't run after plugging into utility outlet:

1. Check all wiring connections in capacitor box.
2. Replace motor and capacitor.

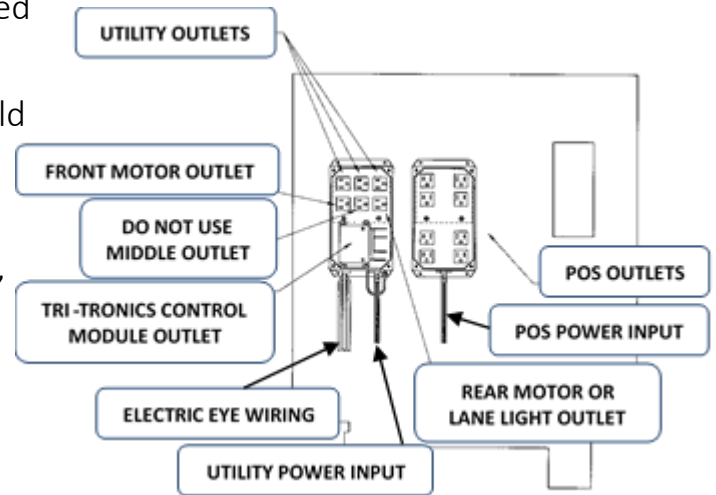


No - ensure the circuit breaker is not tripped at the store's power source.

Plug cord running from capacitor box (should be plugged into outlet marked front motor) into one of the outlets marked utility.

If plugging into utility outlet makes belt run, replace Tri-tronics control module - be sure to plug cord back into outlet marked front motor.

If belt doesn't run after plugging into utility outlet, use a circuit tester to verify the checkstand is receiving power.



FRONT BELT WON'T STOP

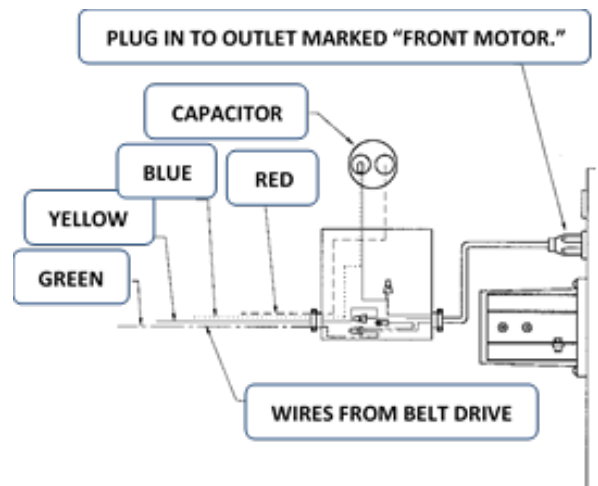
1. Wait long enough for the belt to automatically shut-off - this should take from 30 seconds to 2 minutes.
 2. Cover electric eye beam path to see if that will stop the belt.
 3. Open the electrical access door and check the following:
- Does the green light on the Tri-tronics control module turn on and off when a hand is passed through the eye beam path?

Yes – Eye is OK.

Call a certified electrician to perform all other steps listed below.

Ensure cord running from capacitor box is plugged into outlet marked "Front Motor."

Replace Tri-tronics control module



No - Replace Tri-tronics control module.

If belt won't stop after replacing Tri-tronics control module, ensure the ends of the black S.O. cord running out of the capacitor box are NOT wired.

REAR BELT WON'T START

1. Ensure rear belt is turned on.
2. Check the courtesy clerk override switch at the rear.
3. Ensure the circuit breaker at the store's power source is not tripped.
4. Make sure cord running from rear wiring harness is plugged into outlet marked rear motor on front module wiring harness.

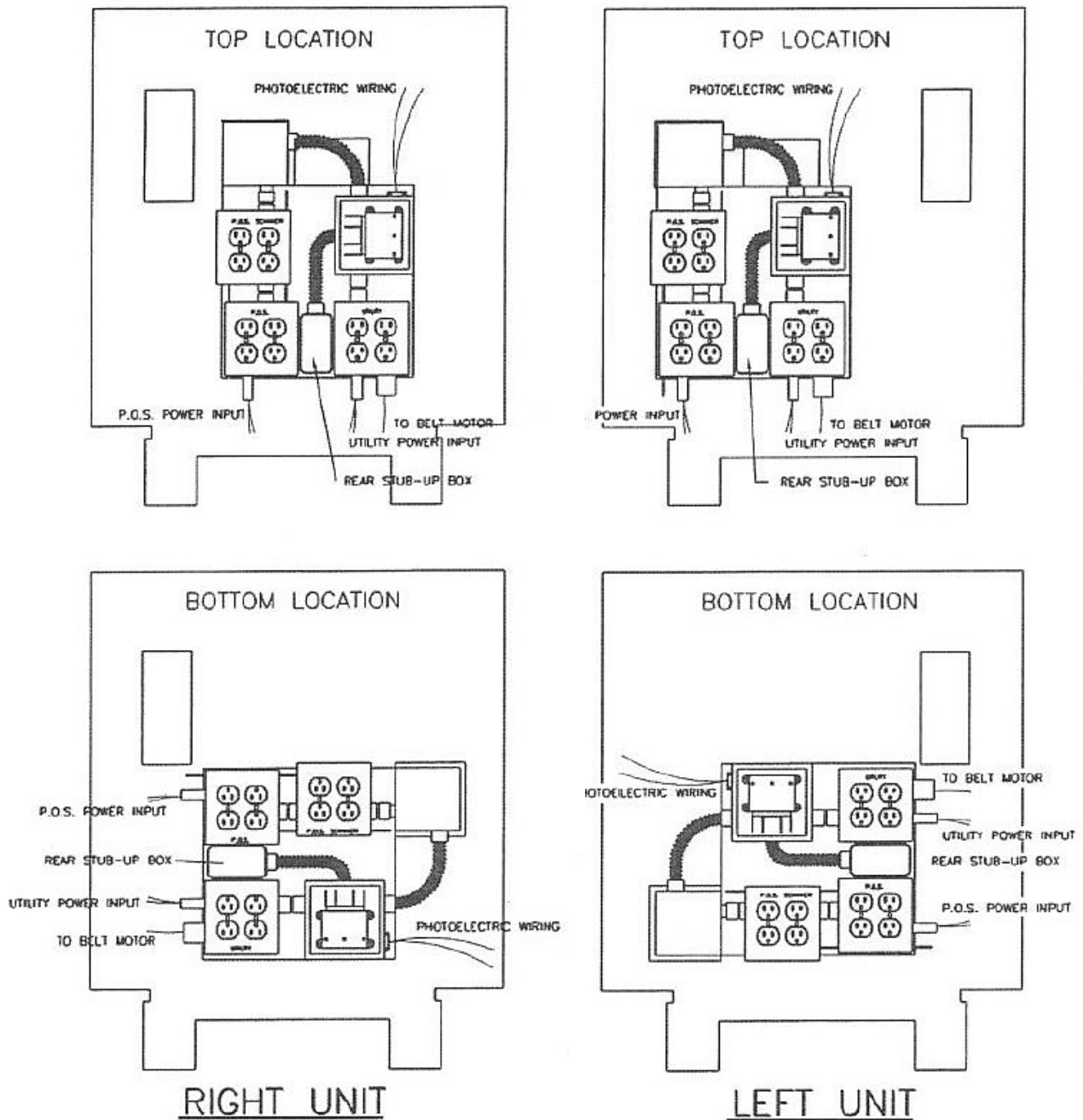
Call a certified electrician to perform all other steps listed below.

5. Check all wiring connections and voltage levels in rear module capacitor box.
6. Check all wiring connections and voltage levels in the 3- way switches (checker and courtesy clerk switches).
7. If all connections are OK, replace capacitor.
8. If replacing capacitor doesn't make the belt run, replace motor.

REAR BELT WON'T STOP

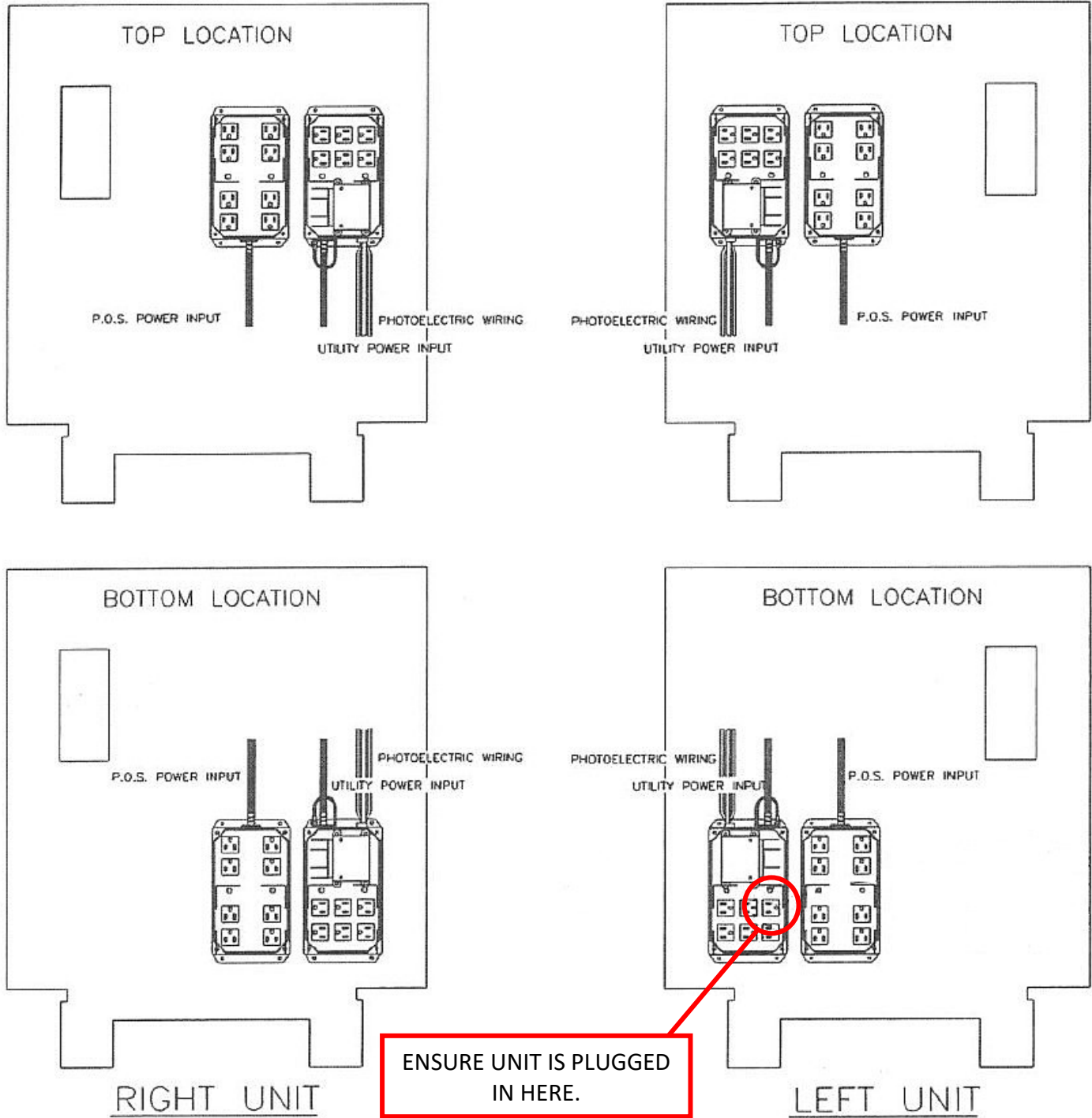
Check all switches - it's possible that more than one switch could be malfunctioning.

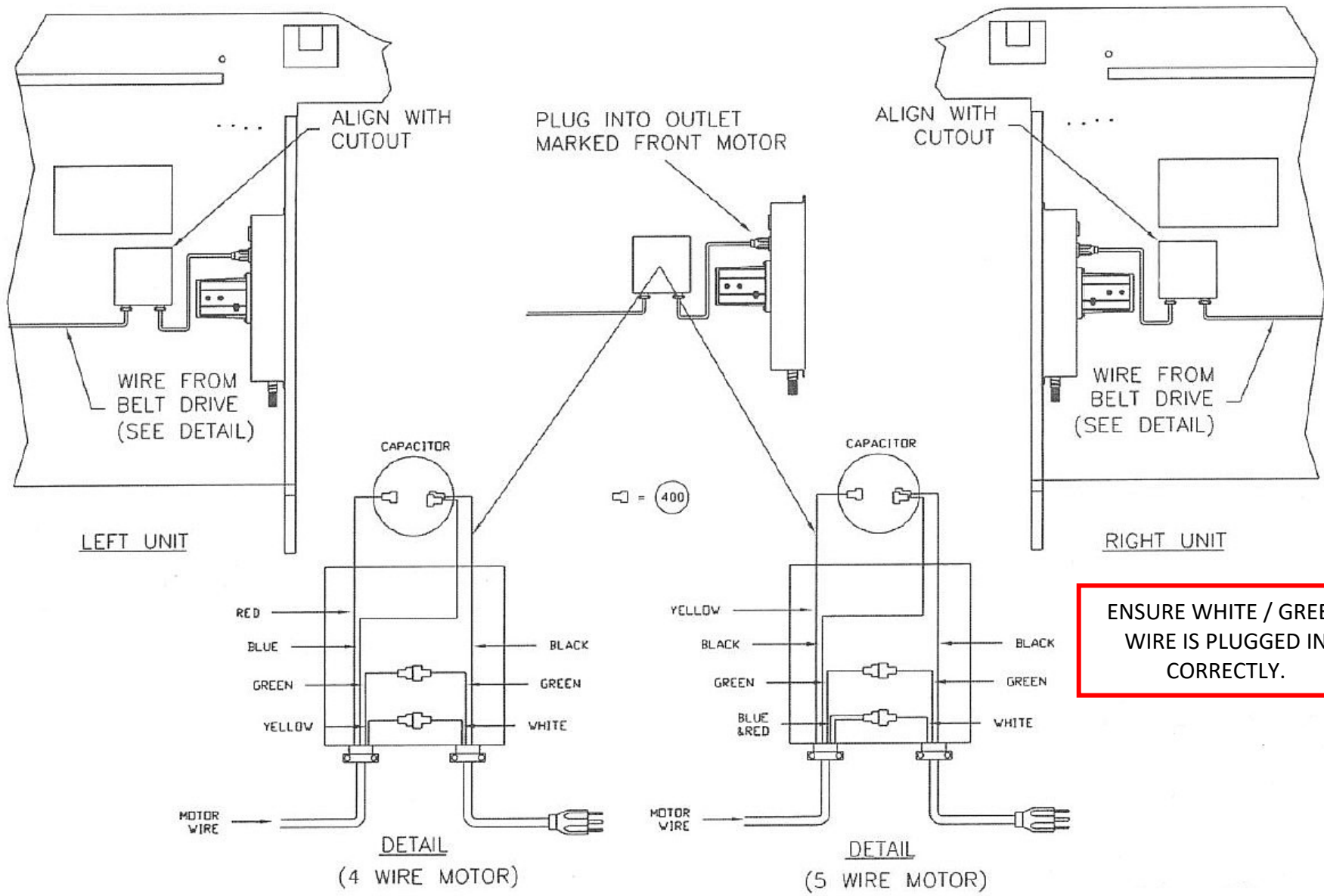
CONTROLLER LOCATION / WIRING



See Page 12 for wiring details.

1. Exchange crimp on connectors (400) for wire nuts with Duren style harness.
2. Capacitor is located in the utility box.



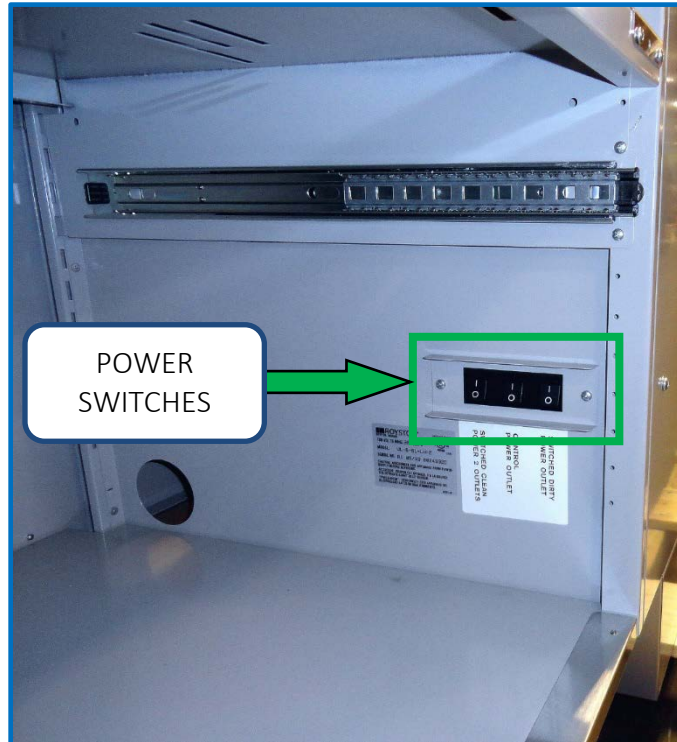


ENSURE WHITE / GREEN WIRE IS PLUGGED IN CORRECTLY.

TROUBLE SHOOTING EXTEND-A-BELT

If Extend-A-Belt will not operate normally, there are a few simple checks which you can perform before seeking technical assistance.

1. Make sure unit is connected to power and power switches are in the ON position.



2. Ensure that the Extend-A-Belt power cable (marked with pink tape) is plugged into the pink receptacle on the main power control panel within the Lead-In. See below.



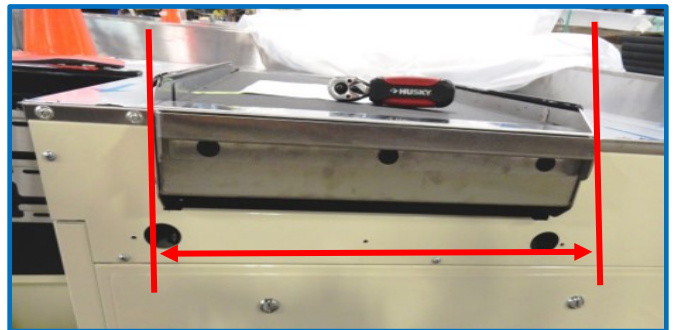
3. Check that wire connections on the wire harness are correct (yellow, blue, green, black, red). See example below.



4. Ensure that wire harnesses have not been damaged. Exercise caution when snipping the wire ties which keep the harnesses coiled during shipment. Tools such as tin snips can nick the harnesses.



5. If the belt does not run properly, it could be that it has shifted from center. There should be a small gap between the belt and the unit on each side to prevent the belt from rubbing and wearing. When the belt is centered, these gaps should be of equal size.



6. To center the belt, remove the access panel and loosen the two ¼-20 bolts directly under the belt using a 7/16" wrench. Center the belt assembly by hand and tighten the ¼-20 bolts. Replace access panel.



PARTS GUIDE

The following parts guide provides detailed information that will allow you to verify the parts required prior to placing your order.

In the event that an item is ordered incorrectly, you will need to contact customer service to verify that your order is eligible for return.

customersupport@roystonllc.com

In accordance with Royston LLC's Returned Goods Policy, you must receive a written Returned Goods Authorization. Authorized returns will be assessed a 15% restocking fee.

All return freight is to be paid by the customer.

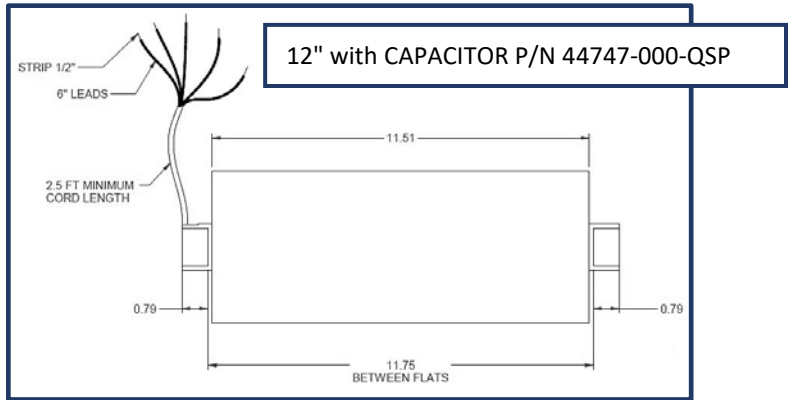
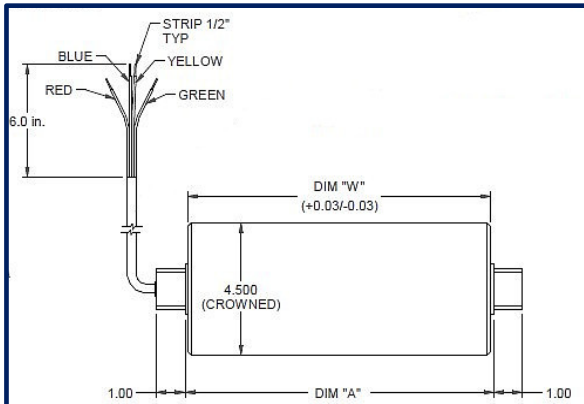
Credit for an authorized RGA will be given once product is returned and found to be in good condition.

Returns require that RGA number must be prominently displayed on the returned product.

Please obtain the tracking number for the returned shipment.

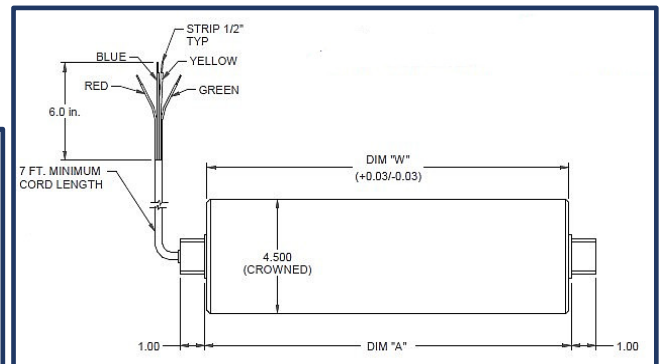
Purchaser assumes responsibility for selection of parts.

MOTORS

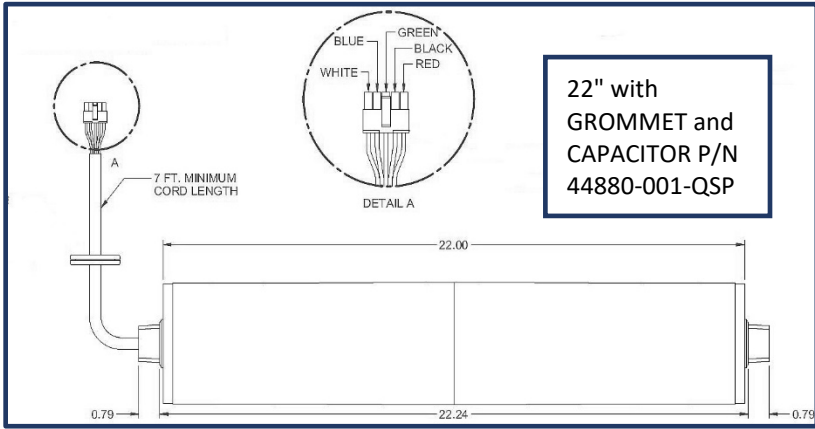


12" with CAPACITOR P/N 44747-000-QSP

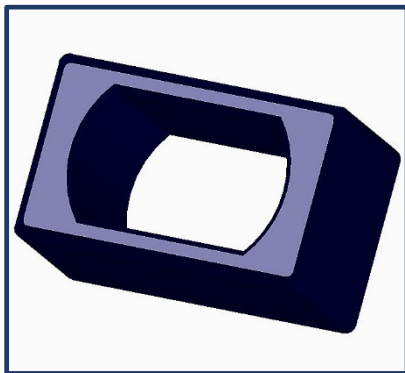
PART NUMBER	DIM "A"	DIM "W"
16566-000-QSP (REPLACES 30053)	12.00	11.77
16566-003-QSP	13.63	13.40



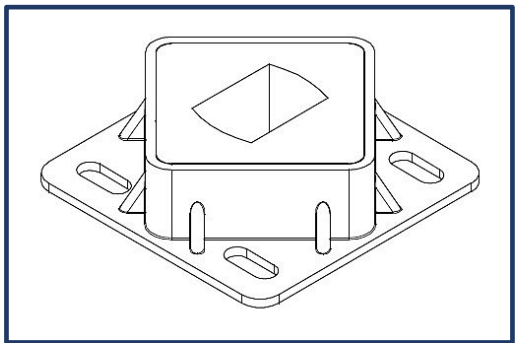
22" with GROMMET and CAPACITOR P/N 44880-001-QSP



PART NUMBER	DIM "A"	DIM "W"
16565-001-QSP (REPLACES 30052)	22.00	21.77
16565-004-QSP	19.50	19.27
16565-007-QSP	20.06	19.83
16565-008-QSP	24.00	23.77

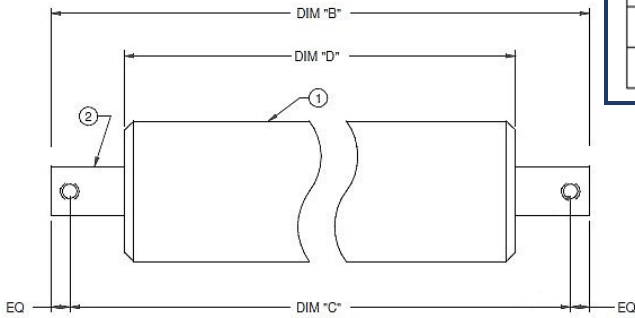


MOUNT STD G-635-RECTANGLE
P/N 40-25093-000

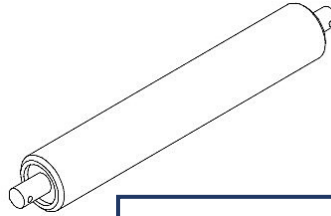


MOUNT STD SQUARE
P/N 00067-000-QSP

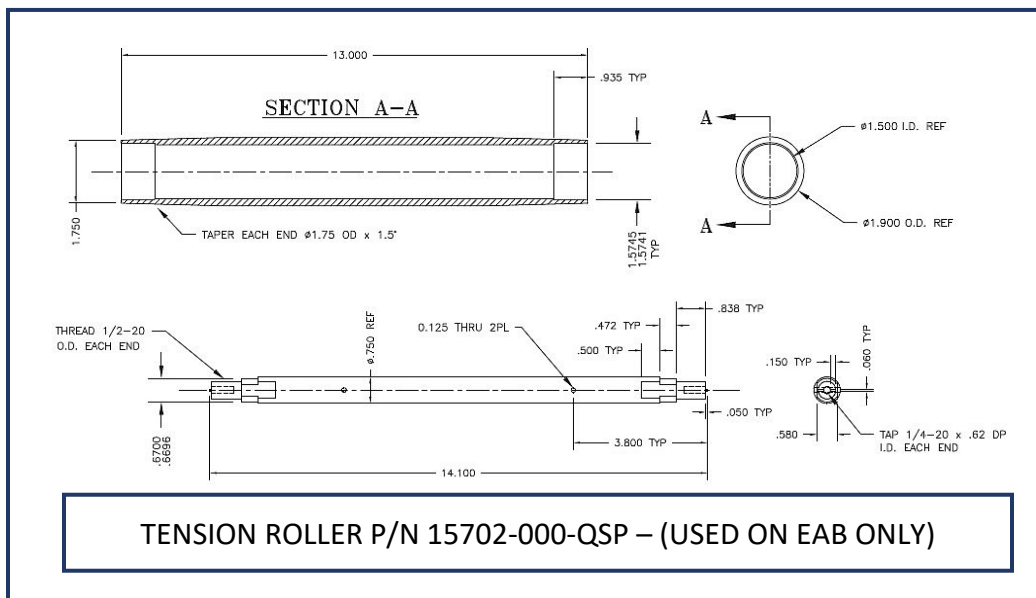
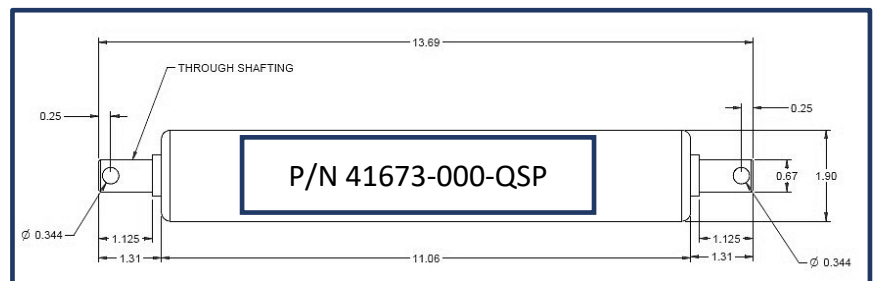
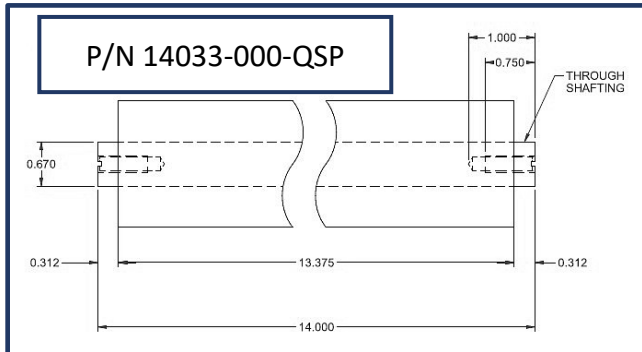
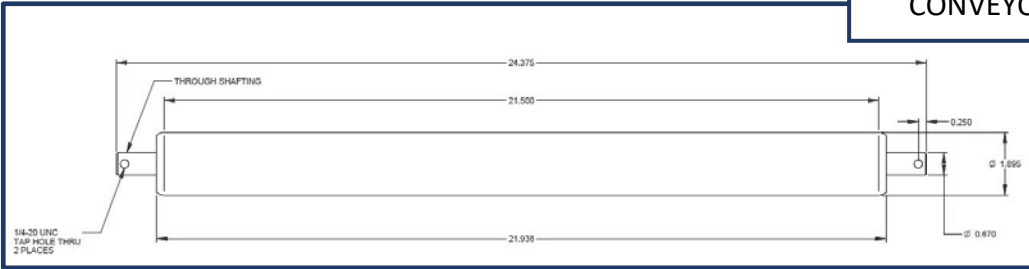
ROLLERS



PART NUMBER	DIM "B"	DIM "C"	DIM "D"
16553-002-QSP	13.43	12.93	11.43
16553-003-QSP	23.31	22.81	21.31
16553-005-QSP	15.25	14.75	13.25



CONVEYOR ROLLER P/N 41164-002-QSP



TENSION ROLLER P/N 15702-000-QSP – (USED ON EAB ONLY)

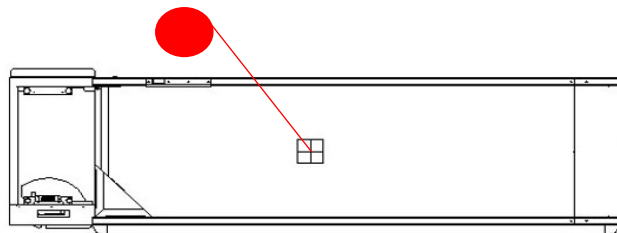
BELTS

FRONT BELTS	DIMENSIONS
70017369	22 X 125.125
70018751-QSP	22.188 X 147.344
70017966	22.19 X 157.791
70018805-QSP	23.75 X 226
REAR BELTS	DIMENSIONS
70018776-QSP	11.875 X 87.38
70018754-QSP	11.875 X 95.375
70017965-QSP	11.875 X 103.25
70018787-QSP	11.875 X 104.75
70018755-QSP	13.375 X 112.25
70017368	13.375 X 116.756

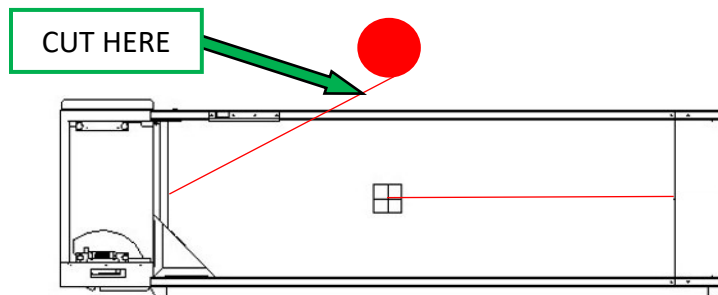
IF THE BELT YOU REQUIRE IS NOT LISTED, PLEASE PROVIDE THE WIDTH AND FULL LENGTH OF YOUR BELT TO ROYSTON.

HOW TO MEASURE THE BELT

1. Tape one end of a length of string to the center of the belt as shown below.



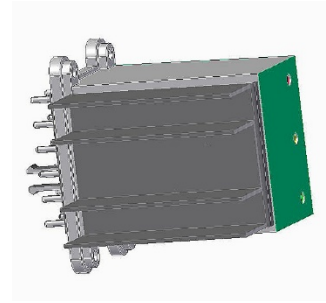
2. Run the belt, allowing the string to travel around the transport. When the taped end returns, stop the belt and cut the string where it meets the taped end.



3. Remove the string from the transport and measure its length. This is the length of your belt.

CONTROLLERS

PM7200 P/N 42123-000-QSP



PM7400 P/N 10022419



FM7510 OR FM7511 – FIRST MATE
SINGLE BELT LANES P/N 10031928-QSP



EYES

SET 1



COVER – CUSTOMER SIDE
P/N 20-13058-000

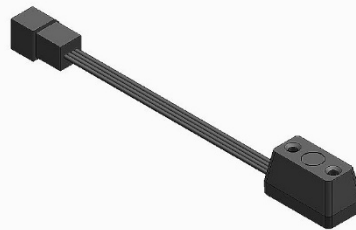


COVER – CASHIER SIDE
P/N 20-13058-001

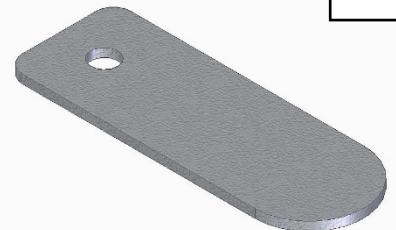
SET 2



SENDER
P/N 29198-000-QSP

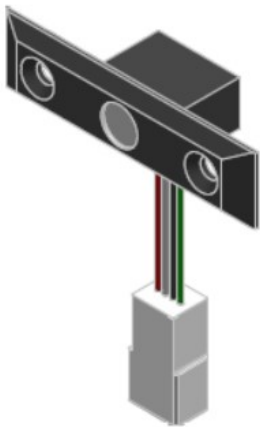


RECEIVER
P/N 42125-000-QSP

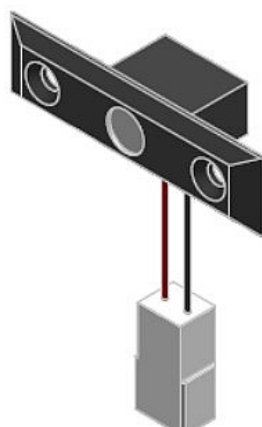


COVER
P/N 30059173

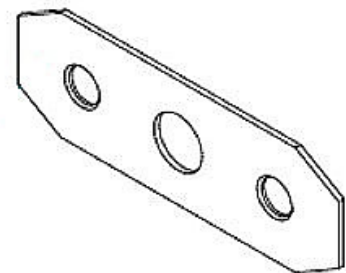
SET 3



4-WIRE RECEIVER
CUSTOMER SIDE
P/N 50019548-QSP

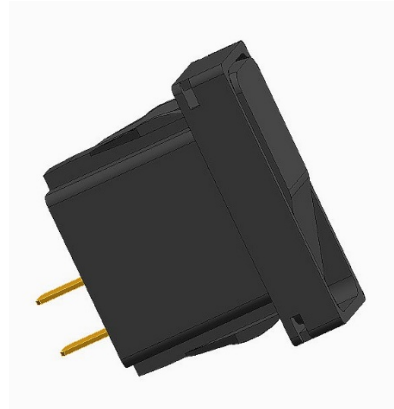


2-WIRE SENDER
CASHIER SIDE
P/N 50019549-QSP

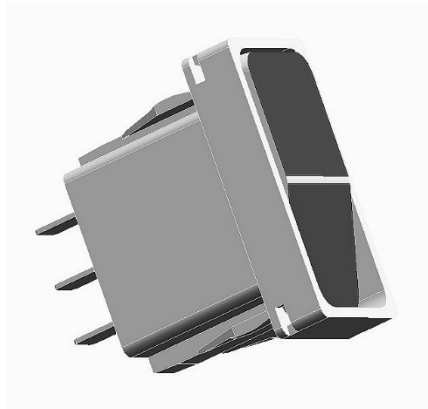


STAINLESS COVER
P/N 50019130

SWITCHES



S-100 FRONT SWITCH
P/N 47653-000-QSP



S-100 REAR SWITCH
P/N 47654-000-QSP



EAB EXTEND / RELEASE
SWITCH ON/OFF/ON
P/N 10026952



CARLING ON / OFF
SWITCH (WM/FL)
P/N 10031691



EAB ON/OFF SWITCH
3-WAY ROCKER
P/N 70016682

McCUE BUMPERS, TRACKS & END CAPS

McCUE BUMPER - Sold by the foot.

Part # provided is Black.

Please contact Royston for additional color availability.



1" FLEX BUMPER – P/N 10018759-Q07
2" FLEX BUMPER – P/N - 10018236-Q07



1" RIGID BUMPER - P/N 10022591-Q07



1" RIGID or FLEX TRACK – P/N 44444-00
2" RIGID or FLEX TRACK – P/N - 101374

STANDARD END CAPS	90° CORNER END CAPS
10018760-Q07 – 1" RIGID OR FLEX	10022593-Q07 – 1" RIGID OR FLEX
10018237-Q07 – 2" RIGID OR FLEX	10025204-Q07 – 2" RIGID OR FLEX

CONTACT INFORMATION

Inquiries and orders may be sent to:

customersupport@roystonllc.com

(Preferred contact method)

Your dedicated Royston customer service team is ready to assist you.

1-800-334-1766

Purchaser assumes responsibility for selection of parts.