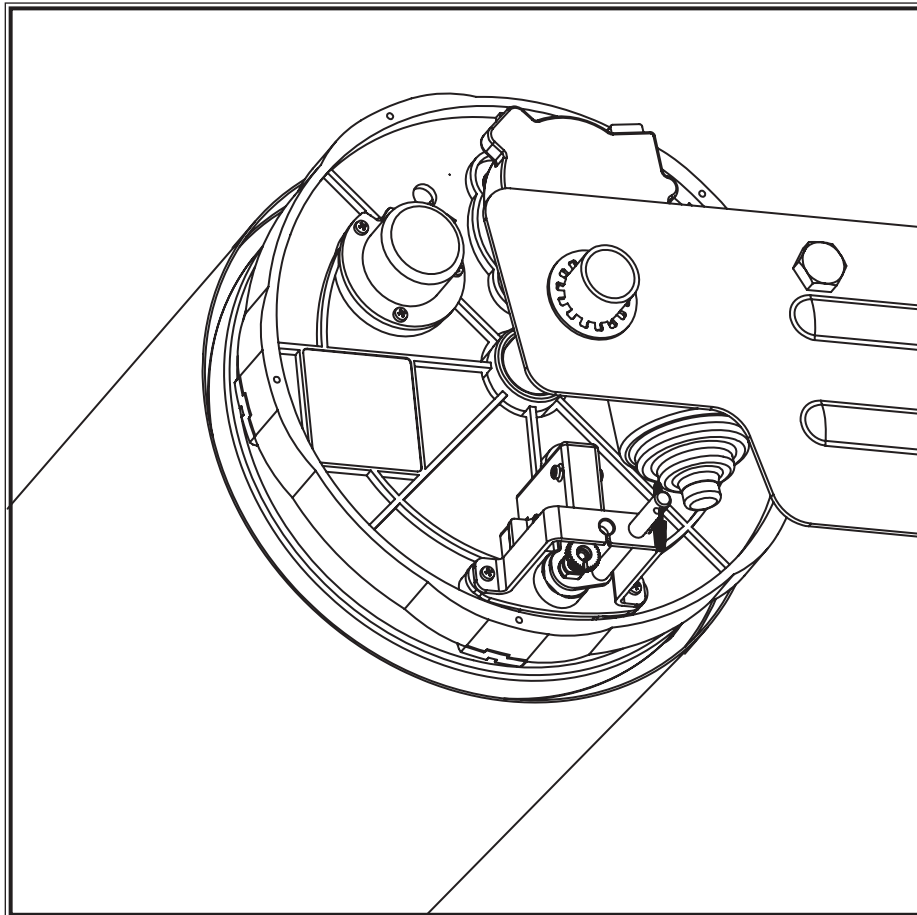


JANUS INTERNATIONAL CORPORATION
INSTALLATION INSTRUCTIONS
Pantheon "Mini" Operator



The Janus Pantheon "mini" operator does not typically require the provision of any additional site requirements other than those which are required for the normal installation of the Janus "mini" rolling door.

IMPORTANT INSTALLATION INSTRUCTIONS

WARNING - To reduce the risk of severe injury or death:

- 1) READ AND FOLLOW ALL INSTALLATION INSTRUCTIONS.
- 2) Install only on a properly operating and balanced door. A door that is operating improperly could cause severe injury. Have qualified service personnel make repairs to cables, spring assemblies, and other hardware before installing the operator.
- 3) Remove all pull ropes and remove, or make inoperative, all locks (unless mechanically and/or electrically interlocked to the power unit) that are connected to the door before installing the operator.
- 4) Install the door operator at least 8 ft (2.44 m) or more above the floor if the operator has exposed moving parts. If the operator must be installed less than 8 ft (2.44 m) above the floor, then exposed moving parts must be protected by covers or guarding, provided by the operator manufacturer.
- 5) Do not connect the door operator to the source of power until instructed to do so.
- 6) Locate the control station: (a) within sight of the door, and (b) at a minimum height of 5 feet so small children cannot reach it.
- 7) Install the Entrapment Warning Placard next to the control station in a prominent location.
- 8) For products having a manual release, instruct the end user on the operation of the manual release.

IMPORTANT INSTALLATION SAFETY

THE FOLLOWING SAFETY INSTRUCTIONS RELATE TO THE INSTALLATION OF THE PANTHEON MINI ROLLING DOOR OPERATOR

WARNING! - TO REDUCE THE RISK OF DEATH OR SERIOUS INJURY, ALL OF THE FOLLOWING INSTRUCTIONS MUST BE READ, ACKNOWLEDGED, AND ADHERED TO.

- **DO NOT** permit children or unauthorized persons in or about the work area during installation or testing of the rolling door and operator.
- **DO NOT** attempt to install the rolling door unless you have read, understood, and acknowledged the installation instructions provided for the mini rolling door.
- **DO NOT** attempt to install or place in service the Pantheon operator or any accessories unless you have read, understood, and acknowledged the instructions provided.
- **ENSURE** that all electrical connections for main power supply are made in accordance with local and NEC wiring codes.
- **ENSURE** that the mini rolling door is installed with correct spring tension and side clearances - the rolling door must operate in the manual condition without binding or sticking in the guides.
- **INSTALL** the logic controller in a suitable location - at a minimum of five (5) feet from the ground and maximum of three (3) feet from the edge of the opening and in clear sight of the surrounding areas.
- **OBSERVE** local and national safety codes, including but not limited to, UL 325, when connecting external accessories and any requirement for the installation of an external entrapment device.
- **REMOVE** or render inoperable any manually operated locks that may be installed on the mini rolling door.
- **REMOVE** the factory fitted "test plug" unless required for the purposes of supervised operation and testing during the installation process.
- **ALWAYS** complete the commissioning and handover check list and ensure that the client, site manager, or authorized representative is fully instructed in the safe operation of the mini rolling door and operator.
- **REFER** any technical problems or enquiries relating to the rolling door or the operator to the manufacturer (Janus International Corporation).

IMPORTANT OPERATION SAFETY

THE FOLLOWING SAFETY INSTRUCTIONS RELATE TO THE OPERATION OF THE PANTHEON MINI ROLLING DOOR OPERATOR

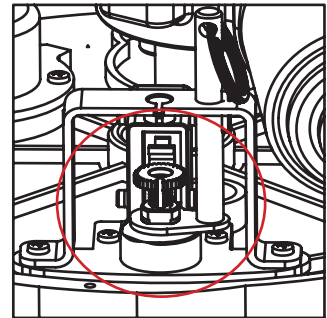
WARNING! - TO REDUCE THE RISK OF DEATH OR SERIOUS INJURY, ALL OF THE FOLLOWING INSTRUCTIONS MUST BE READ, ACKNOWLEDGED, AND ADHERED TO.

- **DO NOT** permit children to operate the control panel, wall switch , or any remote control device connected to or designed to operate the rolling door.
- **DO NOT** attempt to operate the rolling door unless you have a clear and unobstructed view of the door and the surrounding area.
- **DO NOT** operate the rolling door if there are children or persons in the vicinity of the opening - wait until the area is clear before operating.
- **DO NOT** stand or walk under a moving rolling door.
- **TEST** any safety features of the operator on a regular monthly basis and in the event that a fault is determined, discontinue use of the door and operator until such time as the problem is rectified by a qualified technician.
- **LOCAL AND STATE** safety regulations may require the connection of an external entrapment protection device when certain optional operational features of the operator are selected. These include the use of timer devices, auto close feature, momentary contact to close, and the use of remote control transmitters.
- **PRIOR TO OPERATING** the door - ensure that you are familiar with the full operational characteristics of the rolling door and operator and understand the safety requirements.
- **DO NOT** attempt any repairs, modifications, or adjustments to the door or operator - all such issues should be attended to by a trained door systems technician using proper tools and instructions.
- **IF POSSIBLE** only activate the manual release lever when the rolling door is in the closed position because weak or broken springs could allow the door to fall rapidly. In all cases, use caution when using the manual release.
- **IF ANY DOUBT** exists with any feature or function of the door or operator, consult the manufacturer, agent, distributor, or authorized installation technician.
- **KEEP** these instructions in a safe and suitable location for reference and ensure that all personnel are advised accordingly.

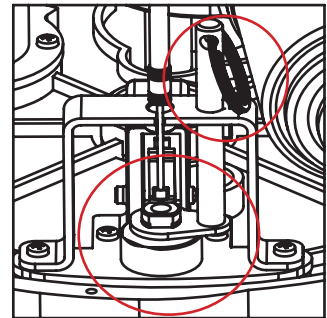
STEP 1

Connecting the manual release cable to the drive unit. (To be done before door is installed)

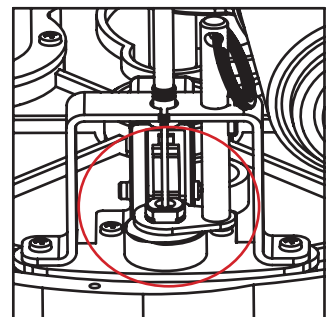
Remove the knurled split nut.



Pull ring on spring loaded pin and twist to disengage auto (electric) mode.



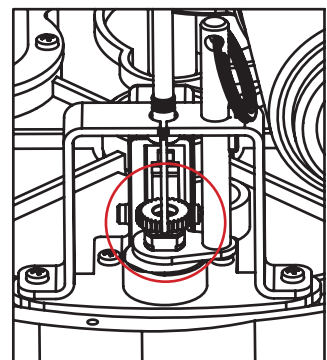
Uncoil the manual release cable and insert the free end of the cable into the threaded recess where the knurled split nut was removed.



Reinstall knurled split nut and tighten.

Carefully coil release cable and motor electric cables together and secure to each other in order to prevent uncoiling or damage during installation of the door.

Remove RH bracket from end of door.



STEP 2

Installing drive unit and door

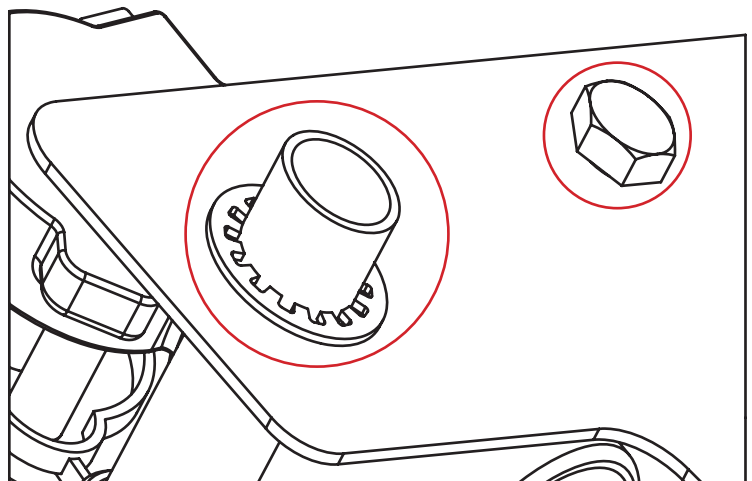
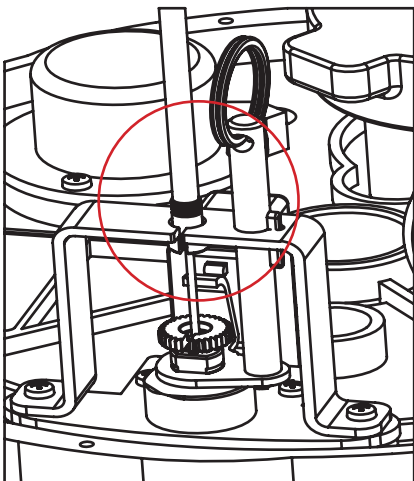
Place the drive unit inside the door drum assembly and verify the three studs on the back of the drive unit are fully engaged in the three holes in the steel drum wheel.

Note: Release pin must be in manual operation position.

Locate 2 3/8" long spacer tube. Slide RH bracket over axle. Place 3" long bolt with lock washer thru hole in bracket and spacer tube and thread into hole in drive unit. Tighten bolt securely. Press new gold colored retaining ring over axle and position next to bracket.

Install door per series 650/1000 installation guide.

Spring tension and curtain clearances should be maintained as per normal installation.



Take care to ensure that the cables from the drive unit are not damaged or permitted to bind on any part of the structure or the door during the installation.

STEP 3

Installing the logic controller

With the door fully installed, carefully uncoil the cables from the drive unit and arrange so they are protected from damage.

Locate a suitable place for the installation of the logic controller, ensuring adequate free cable length.

The logic controller shall be installed on the same side of the opening as the drive unit and at a location that has a clear view of the door operating area.

Remove the controller's cover by removing the four captive screws. Mount controller to wall using four self-tapping screws, one at each corner.



Connect the main power in accordance with all local and NEC wiring codes.

STEP 3 (continued)

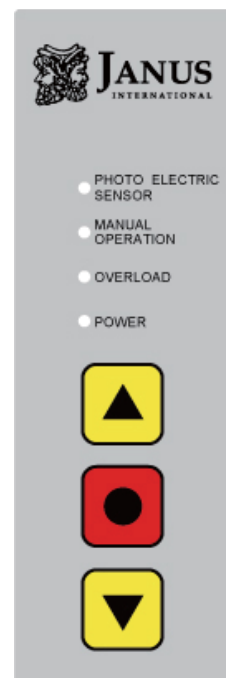
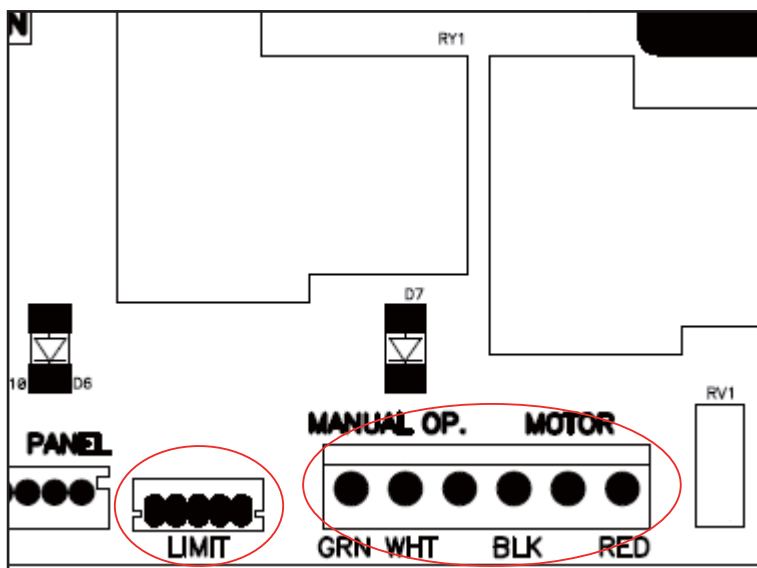
Installing the logic controller

Once the logic controller enclosure is attached to the structure, locate the **drive unit** (larger) cable and the **electronic limit** (smaller) cable.

Insert the electronic limit cable plug through the small hole provided at the bottom of the enclosure and plug into the receptacle marked "LIMIT" at bottom of the board. Use care to ensure plug is installed properly.

Locate cable strain relief bushing. Loosen large bottom gland nut and remove flat nut. Slide bushing over four wire drive unit cable, being careful to place gland nut end first over wire. Insert wire thru hole at bottom of enclosure. Put strain relief bushing in large enclosure hole. Place flat nut over wire and tighten to bushing. Remove green plug (MANUAL OP. MOTOR) from bottom right of board. Attach four wires to plug, being certain to follow color coding on the board. Insert plug with wires to board receptacle. Tighten gland nut on outside of strain relief.

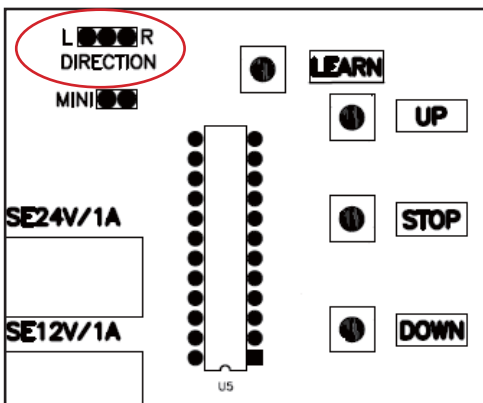
As per factory issue, the logic controller is designed to operate with Momentary Contact to OPEN and Constant Contact to CLOSE.



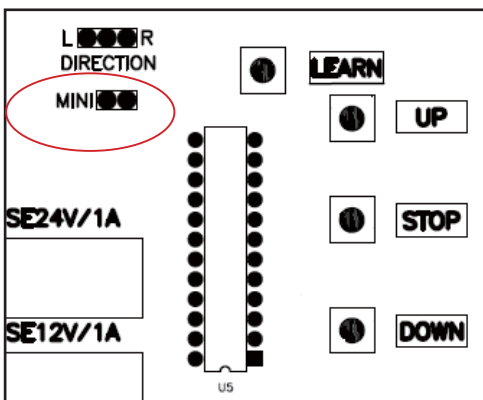
STEP 4

Verifying the handing of the operator

The "mini" logic controller is designed to operate only on RH (right hand) drive installations, as viewed from inside (coil side) looking out. A jumper is NOT required on the DIRECTION terminal.



All "mini" logic controllers shall have the jumper positioned as shown on the JSS(MINI) terminal.



Always switch line power OFF when handing the operator.

STEP 5

Setting the electronic door limits

Reengage the drive unit from manual to auto (electric) operation. Rotate door barrel assembly slowly until pin fully engages. Connect input power line and turn unit switch to on. Unit will beep when switched on.

1. Press and hold **LEARN** button until three **BEEP** sounds are heard.

The logic controller will now learn the **OPEN** position **FIRST**.

2. Press and hold the **UP** button until the door moves. Release button at the required **OPEN** position.

Small adjustments may be made by momentary pressing of the **UP** or **DOWN** button to move the door to the required position.

DO NOT ALLOW BOTTOM BAR TO CONTACT THE HEAD STOPS.

3. When the **OPEN** position is reached, press the **LEARN** button once. Two **BEEP** sounds will confirm the setting.

The logic controller is now ready to learn the **CLOSED** position.

4. Press and hold the **DOWN** button until the door moves. Release button at the required **CLOSED** position.

Small adjustments may be made by momentary pressing of the **UP** or **DOWN** button to move the door to the required position.

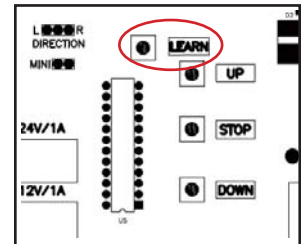
DO NOT ALLOW DOOR TO OVER-TRAVEL ONCE CONTACT HAS BEEN MADE BY THE BOTTOM BAR TO THE FLOOR.

5. When the **CLOSED** position is reached, press the **LEARN** button once. Two **BEEP** sounds will confirm the **CLOSED** setting. After settings completion, the operator will perform an automatic check of both open and closed settings.

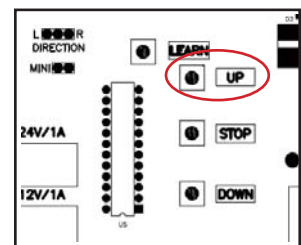


Door will immediately travel up and then down on its own. Keep away from moving door.

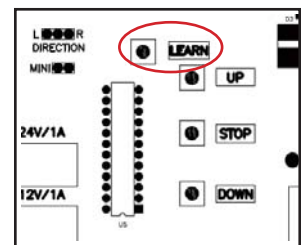
1. Learn



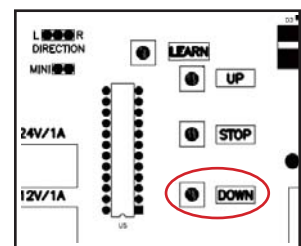
2. Open Position



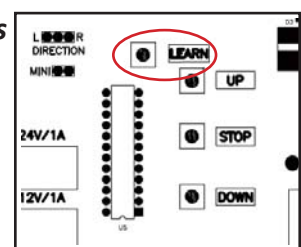
3. Confirm & Learn



4. Closed Position



5. Confirm Settings



STEP 6

Setting the DOOR SIZE jumper

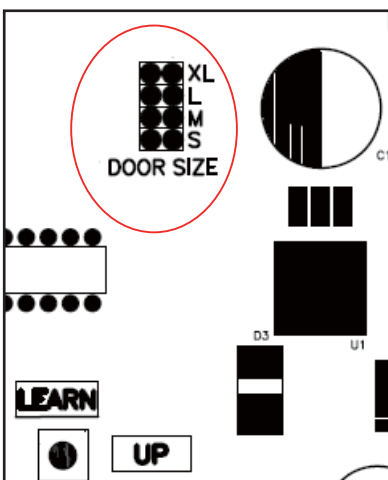
The logic controller is designed to electronically detect and monitor the normal operation of the door.

This assures that the operator will automatically stop and reverse its closing motion or alternately stall its opening motion if an obstruction is detected.

To set the DOOR SIZE adjustment, begin with the jumper at **S** and check that the door will operate down without reversing and up without stalling.

If required, move the jumper through the ranges **M**, **L**, & **XL** until satisfactory operation is achieved.

Final adjustment of the sensitivity setting is performed by following the instructions as set out under the heading, "ADJUSTING the SENSITIVITY" , step 7.



XL :144-168 Sq Ft
L :120-144 Sq Ft
M :100-120 Sq Ft
S :≤100 Sq Ft



**Install Warning
 Label on wall next
 to Logic Controller**



It is essential that this reversal feature is not recognized as an external entrapment protection device, as may be required to satisfy national safety codes including, but not limited to, UL 325.

STEP 7

ADJUSTING the SENSITIVITY

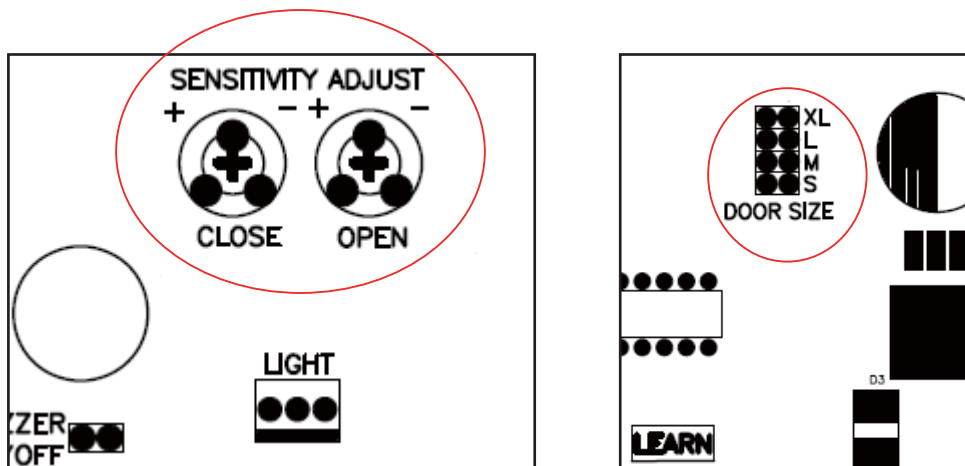
This feature allows the logic controller to be adjusted for small operational imbalances, in conjunction with the door size jumper setting, and permit the door to operate as required in both directions.

Adjustments **shall be made** once the door size setting is complete. Refer to instructions under the heading, "Setting the DOOR SIZE jumper", step 6.

Fine tuning is performed by **careful** rotation of the corresponding Open or Close Sensitivity Adjust screw, as required.

To **Increase** + the sensitivity of the operator, rotate the required (Open or Close) setting **Counterclockwise**.

To **Decrease** - the sensitivity of the operator, rotate the required (Open or Close) setting **Clockwise**.



STEP 8

Installing the manual release control

Route the manual release cable, verifying that smooth lever operation is maintained. Avoid tight bends so the inner cable will move freely.

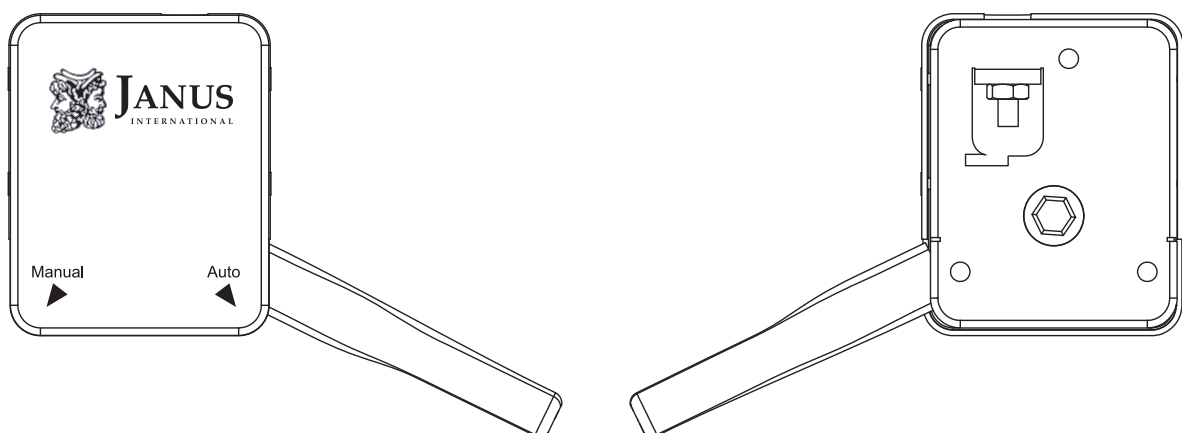
Locate a suitable position for the lever control.

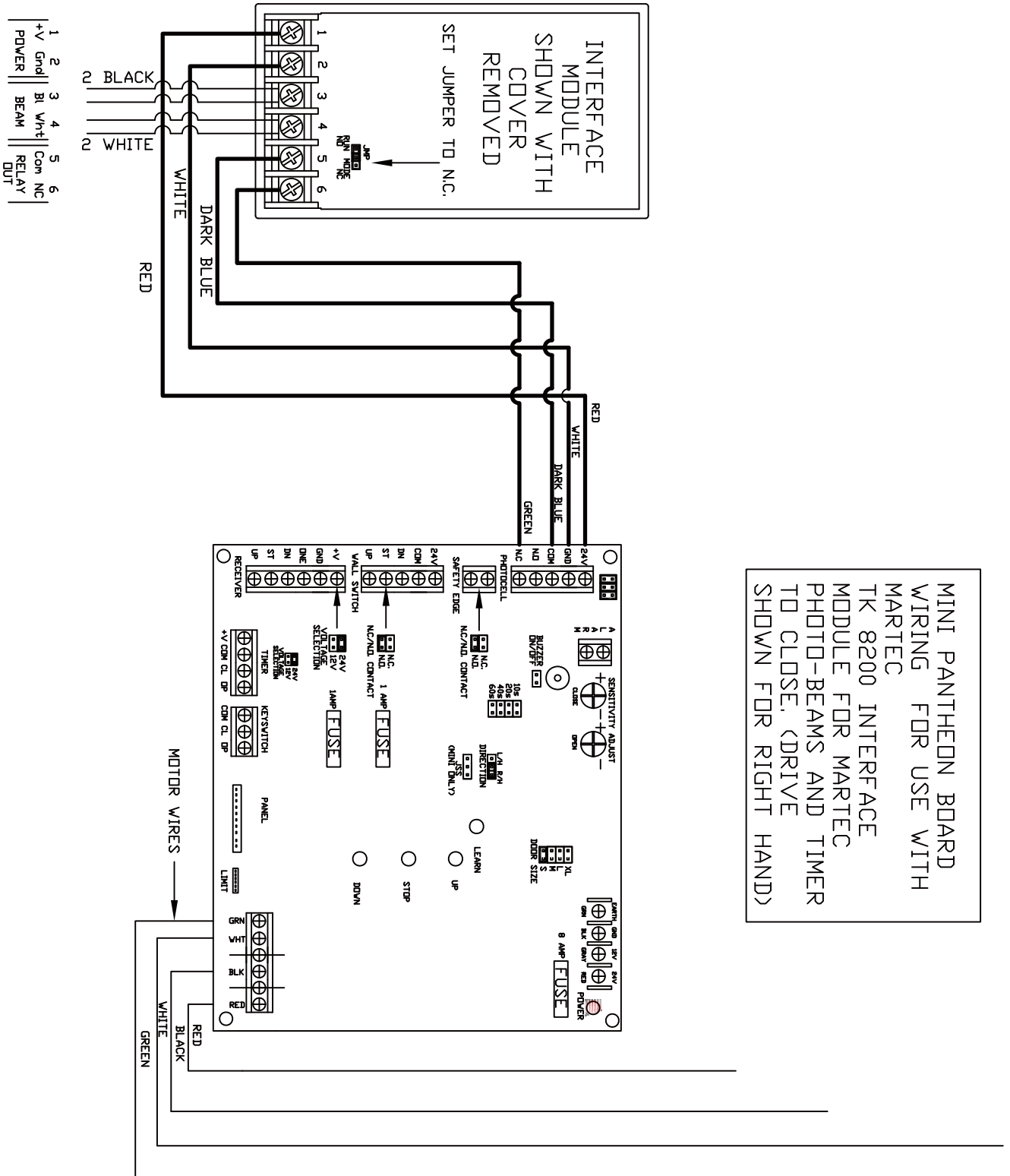
Attach the lever control to the wall with the lever moved toward the right to actuate the Auto (electric) operation.

Make sure the drive unit is fully engaged by gently moving the curtain of the door in either direction (*up or down*) until the pin is locked into position.

Check to be sure the lever is able to withdraw the manual release pin and reengage it as required.

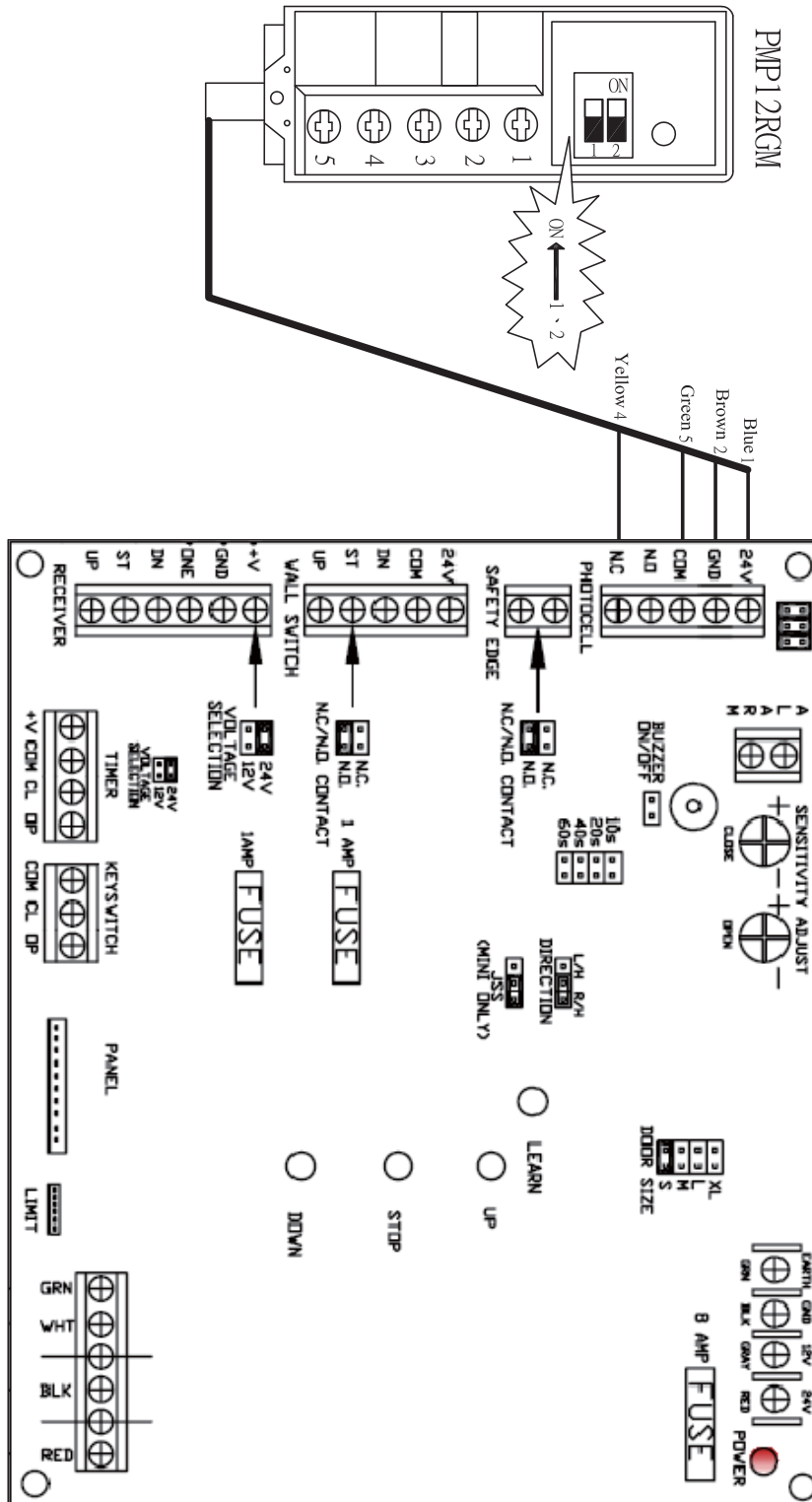
Adjust the internal lever tension screw, if required, to hold the manual release pin in the manual condition. Install control cover.





STEP 9

Photo Sensor Wiring Diagram.



PROBLEM	POSSIBLE CAUSE	SOLUTION
Pressing UP or DOWN on front cover, beeps twice, nothing happens. No Power indicator light on front cover.	8 AMP fuse located in top right hand corner of logic board blown.	Check 8 AMP fuse located in top right corner of logic board. If blown, replace with spare 8 AMP fuse located inside front cover.
MANUAL OP light on but cannot manually operate door.	Release cable connection at motor head too taught or motor studs not fully engaged in drum holes.	Remove split nut where cable enters motor head. Place door in manual operation condition by pulling and twisting grenade pin to lock in place. Manually operate door. Re-engage grenade pin. Rotate curtain slightly up or down until motor pin snaps into place. Check front cover for MANUAL OP light. If OFF, re-attach release cable.
Pressing UP or DOWN on front cover, nothing happens. Power indicator light on front cover is ON.	Operator is in Manual Operation Condition.	Check front cover for MANUAL OP indicator light. If ON, move lever to AUTO position. Rotate curtain slightly up or down until motor pin "snaps" into place.
No Beeps when pressing UP, DOWN, STOP or LEARN button on circuit board.	Limit Plug Lead Wire damaged.	Check Limit Plug Lead Wire for damage. If damaged beyond repair, consult factory for further assistance.
Able to set the UP/OPEN limit but can't get the DOWN/CLOSE command to function; beeps twice.	Motor lead cables, GREEN, WHITE, BLACK, AND RED, not connected to corresponding board connections.	Check Motor Lead Cable. Assure that GREEN, WHITE, BLACK and RED wires are connected to corresponding connections on logic board. Check L/R direction jumper for proper handling.
OVERLOAD light ON, front cover.	Improper tension, door binding during operation, or voltage spike.	Place door in manual operation condition, raise door, adjust tension. Inspect guides, brackets, for any potential binding locations. Check 8 AMP fuse and re-set limits.
After setting OPEN & CLOSE limits, door does not cycle up and down.	Contact Jumper is set at N/C position.	Move Contact Jumper to the N/O position
After setting OPEN & CLOSE limits, door does not cycle up and down.	Contact Jumper is set at N/C position.	Move Contact Jumper to the N/O position

STEP 10

Commissioning and handover of the door and operator

Once all the steps in the installation process have been successfully followed and any external accessories have been correctly connected, the door, operator, and any external accessories should be fully tested prior to handover and demonstration to the customer or authorized representative.

The handover process should include the exchange of any owner manuals, instruction manuals, warranty cards or documents, remote control transmitters together with a complete demonstration of the fully functioning door, operator, and any external accessories.

Contact:

Janus International Corporation
134 Janus International Blvd.
Temple, GA 30179
770.562.2850
770.562.2264 fax
www.janusintl.com

Checklist

With door in manual mode, check door operation

Check activation of manual release lever

Check auto reverse operation

Check auto close- if selected

Check timer device- if connected

Check photo electric sensor function- if connected

Check edge sensor function - if connected

Check wall switch- if connected

Check remote control transmitter operation- if connected

Check that all manual locks are inoperable

Remove "test plug" at photo electric sensor terminal- if fitted

Demonstrate all functions to client and hand over any accessory items or documentation