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DOOR COMPANY

INSTALLATION GUIDELINES FOR SLIDERS

BEFORE YOU INSTALL YOUR FRANK DOOR, PLEASE REVIEW THESE BASIC GUIDELINES

1. All doors must be installed on plumb walls. Any walls out of plumb will require that the door frames be shimmed back to plumb. All door frames must be installed plumb and square to insure proper operation and warranty.

2. All headers and side casings should be securely fastened to the wall that they are installed on.

3. Doors mounted on insulated panels should have backup headers and side casings to help strengthen the opening.

4. Doors mounted on very tall panel walls will require support steel to be added to the wall around the door opening. Support steel, if required, is to be supplied and specified by others.

5. Check that the inside of the header track is free of any debris that may impede the travel of the wheel assemblies *before* operating door.

6. The exterior and interior edges of headers and side casings should be caulked with silicone to prevent any moisture migration behind the components that may cause frost or sweating.

POWER OPERATED HORIZONTAL SLIDERS

UNDER NO CIRCUMSTANCES SHOULD ANY CHANGES BE MADE TO THE WIRING OF THE OPERATOR OR THE DOOR. IF THERE ARE ANY QUESTIONS, ALWAYS CONTACT THE FACTORY. FAILURE TO DO SO WILL VOID THE DOOR'S WARRANTY.

1. Always consult and comply with all local electrical codes. Ensure that the licensed electrician is aware of the voltage and amperage requirements of the door and uses the proper size wire and power supply. ***All freezer doors should be supplied with an uninterrupted and separate power supply for the anti-frost heaters.***

2. Overhead pull switches which activate the power operator should be positioned far enough away from the door opening to allow the door to be in the full open position before any vehicle arrives at the opening. Doing so will help prevent damage to the door panel.

POWER OPERATED DOORS

INSTALLATION & OPERATION MANUAL

OVERVIEW OF YOUR POWER OPERATED FRANK DOOR

The door is driven by a three phase current motor with a cylinder-worm gear pair which moves a #40 roller-link chain. The door is hung from a track which is unique to this product. Attachment of the door to the chain is accomplished via a wheel bracket assembly. This wheel bracket assembly is connected between the door leaf and the chain. In the event that the door needs to be operated manually, due to a loss of power, the door may simply be opened/closed by hand due to the unique gearing.

All control circuitry is 24 volts.

There are many ways to activate your power operated door - use of two ceiling mounted pull switches (one for the interior and exterior of box) and/or a 2-button (open/close, partial open) station. The pull stations are standard and supplied with each door. For information about other control devices, please contact the factory.

All power operated doors come equipped with a reversing edge. An optional photoelectric retroreflective sensor, which will stop and reverse the door whenever an object breaks the beam while door is closing, is available. On doors that have a partial open feature, the door will stop when the beam is broken, but will not reverse automatically.

BEFORE BEGINNING THE INSTALLATION

Read and be familiar with:

Installation Guidelines for Horizontal Sliders

Verify door has been installed as per:

Manual Horizontal Slider Door Installation Details

An uninterrupted (dedicated) fused circuit must be provided to supply line voltage to the door's control box. Always provide a lockable power shut-off switch in close proximity to the door's control box as per:

TS723 Installation Guidelines

Always keep your hands clear of the drive chain when the door's operator has power or when the door may be moved manually.

IF YOU HAVE ANY QUESTIONS, PLEASE CALL THE FACTORY

BEFORE POWERING UP YOUR DOOR

INSTALLATION PROCEDURE FOR

HORIZONTAL ELECTRIC SLIDE DOORS

01. Check & inspect all crates for damage (see Fig. 1). The freight company is responsible for any damage. The purchaser should file claims with the freight company immediately.

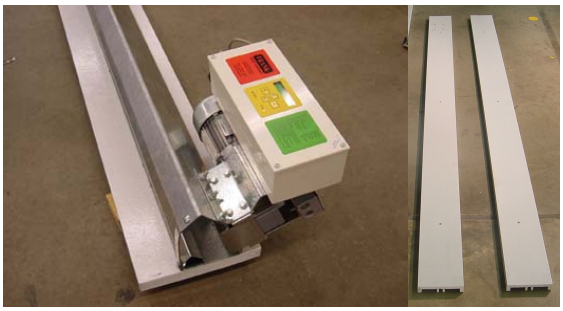

FIG. 1

02. ALL DOORS & DOOR FRAMES MUST BE INSTALLED PLUMB & SQUARE TO ENSURE PROPER OPERATION & WARRANTY VALIDATION. Verify that walls are plumb (see Fig. 2A, 2B & 2C). Any walls out of plumb will require that the door frames be shimmed back to plumb. After it has been established that walls are plumb, installation of side casings, header & door(s) can begin.

FIG. 2A

FIG. 2B

FIG. 2C

03. Place side casings on wall & ensure that inside edge of each casing is flush with sides of door opening (see Fig. 3). Attach each front casing to wall by inserting screws (provided) into each pre-drilled hole (see Fig. 4). If there are backup casings, use carriage bolts (provided). ***Note: Care should be taken when installing heated casings so as not to damage heater wires.***

FIG. 3

FIG. 4

04. Place header with track assembly on top of sides casings (see Fig. 5A). on biparting header, center the header over the opening.Verify that header is level (see Fig. 5B). Attach header to wall with lags or carriage bolts (provided) into each pre-drilled hole spaced evenly along the length of the header. Make sure that lags are placed ABOVE track assembly so that gasket on back of door has free travel (see Fig. 5C & attached drawing). Place one lag or carriage bolt near bottom of header on each end (see Fig. 5D). ***Note: Care should be taken when installing heated headers so as not to damage heater wires.***

FIG. 5A

FIG. 5B

FIG. 5C

FIG. 5D

05. Remove lower nut & two washers on each roller assembly bolt located in header track (see Fig. 6). DO NOT REMOVE METAL PLATES THAT LOCK THE ROLLER ASSEMBLIES TO THE HEADER TRACK! REMOVAL OF METAL PLATES AT THIS TIME MAY RESULT IN PERSONAL INJURY.

FIG. 6

06. Carefully set bottom of door(s) next to bottom of casings, allowing door(s) to rest on two wooden blocks that are attached to Bottom Door Guide Rail. Lift door(s) to its upright position (see Fig. 7A) & place roller assembly bolts into slots of corner door brackets (see Fig. 7B & 7C).

FIG. 7A

FIG. 7B

FIG. 7C

07. Install lock washers & nuts to roller assembly bolts (see Fig. 8A & 8B). Remove metal plates that lock roller assemblies to header track by loosening nuts (see Fig. 8C). Discard metal plates.

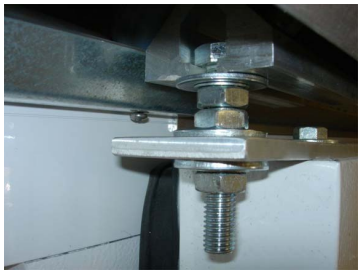

FIG. 8A

FIG. 8B

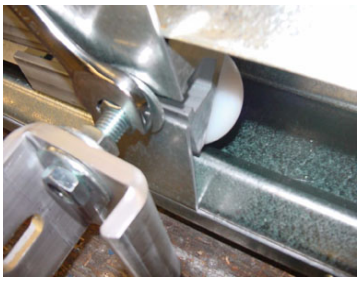

FIG. 8C

08. Raise or lower door(s) by adjusting roller assembly bolts (see Fig. 9) so that Bottom Door Guide Rail is approximately 1/4" off of floor.

FIG. 9

09. After correct door height adjustment has been made, slightly tighten locking nuts on the roller assembly bolts (see Fig. 10). Open door & remove two wooden blocks that are attached to Bottom Door Guide Rail(s). DO NOT DISCARD BLOCKS!

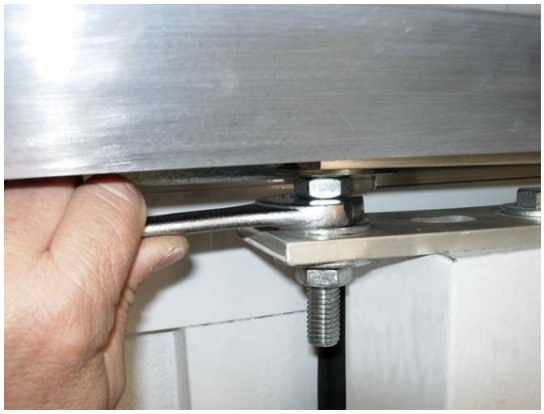

FIG. 10

10. ***CRITICAL STEP!*** With door(s) in closed position, slide Bottom Door Guide(s) underneath trailing edge side of Bottom Door Guide Rail(s) & position as follows: Bottom Door Guide(s) should be positioned approximately 4" away from trailing edge side casing to back of Bottom Door Guide(s) (see Fig. 11). With door(s) in closed position, trailing edge end of Bottom Door Guide(s) should extend approximately 2" beyond trailing edge of door(s). Mark center of two slots of Bottom Door Guide(s) on floor. Insert anchor bolts (provided). DO NOT TIGHTEN ANCHOR BOLTS AT THIS TIME!

FIG. 11

11. ***CRITICAL STEP!*** After Bottom Door Guide(s) has been properly installed, adjust door(s) for proper seal between door gaskets & header & side casings. Open door(s) approximately one-quarter into door opening. Gasket at top of door(s) should be approximately 1/8" from header (see Fig. 12). This dimension will ensure a proper seal once door(s) is fully closed.

FIG. 12

12. Close door(s) & check all four sides for proper seal. Take wooden block (previously removed from Bottom Door Guide Rail) & place between gasket track & at top of one of the side casings (see Fig. 13A). Move block down entire length of casing. Block should fit snug. Repeat step for other side casing. Adjust door as necessary. On **biparting** doors, ensure that both panels are parallel to each other & that they close & seal with each other properly (see Fig. 13B). If door(s) does not seal properly, adjustments can be made by adjusting roller assembly bolts (see Fig. 13C). After correct seal adjustment has been made, tighten locking nuts on roller assembly bolts (see Fig. 13D). Tighten anchor bolts on Bottom Door Guide (see Fig. 13E). Open & close door(s) to ensure smooth operation & to verify that door(s) is properly sealed when in closed position. ***Note: Electric doors will be harder to open & close to make adjustments but it is not necessary to disconnect the doors from the chain. Manually open & close both panels at the same time for ease of operation.***

FIG. 13A

FIG. 13B

FIG. 13C

FIG. 13D

FIG. 13E

13. With door in closed position, LE Hook Striker on leading edge side of door (single sliders only) should fit snugly into casing mounted "hook" (see Fig. 14). If necessary, adjust Hook Striker on door by loosening bolts & sliding it until it becomes snug. Tighten bolts on LE Hook Striker.

FIG. 14

14. On **biparting** doors, open both panels to fully opened positions & ensure that Anti-Lift Devices do not make contact with the header track. There should be approx. 1/8" clearance space between the Anti-Lift Devices & the header track when panels are fully opened (see Fig. 15).

FIG. 15

15. If doors are fitted with an ***OPTIONAL*** Breaker Handle, completely close door & attach Breaker Handle Strike (located in parts bag attached to Breaker Handle) to leading edge casing with screws provided (see Fig. 16A). Position the strike so that the lever on the Breaker Handle is 1/2" above the striker plate (see Fig. 16B). Insert plugs into four holes on Breaker Handle Strike.

FIG. 16A

FIG. 16B

16. If doors are fitted with an ***OPTIONAL*** Floor-Mounted Door Stop, open door to fully opened position & install floor-mounted stop next to trailing edge side of door with anchor bolts provided (see Fig. 17).

FIG. 17

17. If doors are fitted with an ***OPTIONAL*** Lift Device, completely close door & place Lift Device (located in parts box) on leading edge casing & underneath leading edge hanger bracket so that the plunger of the Lift Device is fully depressed (see Fig. 18). Insert four lag bolts in ***center*** of four slots on base of Lift Device & tighten. Open & close door to determine ease of door operation & to ensure that Lift Device is functioning properly. If necessary, raise or lower the Lift Device plunger by turning bolt at bottom of plunger clockwise or counterclockwise for optimal performance.

FIG. 18

18. Caulk exterior, interior & bottom edges of side casings & header with silicone to prevent frost & sweating.

19. FREEZER DOORS SHOULD BE SUPPLIED WITH AN UNINTERRUPTED & SEPARATE POWER SUPPLY. Ensure that licensed electrician is aware of voltage & amperage requirements of freezer door & uses proper wire size & power supply. Always consult & comply with all local electrical codes.

20. SJ cord on freezer door should be routed to an electrical box (not supplied) & should be positioned approximately midway on trailing edge end of header.

POWER OPERATED HORIZONTAL SLIDER

INSTALLATION & OPERATION MANUAL

BEFORE SETTING UP THE POWER OPERATOR, MAKE SURE THAT THE DOOR FUNCTIONS WELL AS A MANUALLY OPERATED DOOR. POWER OPERATION WILL NOT CORRECT OR REMEDY ANY PROBLEMS OF A POORLY INSTALLED OR FUNCTIONING MANUAL DOOR

After you are satisfied that your sliding door is properly adjusted and working well as a manual slider, you are now ready to begin the process of providing for power operation of the door.

Note: All control circuitry is 24 volts. Internal 24 volt supply cannot exceed 1 amp.

PULL SWITCH CONNECTIONS

(TS723 Installation Guide Page 2)

Mount pull switches to ceiling in a convenient location, far enough away from door opening so as to allow sufficient time for door to open fully before any vehicle arrives at the opening. ***Recommended wire size is 16-gauge or less.***

Two (2) pull switches are provided (one each for interior and exterior of box). *Note: Both pull switches should be wired in*

*parallel and "**normally open**". Connect both pull switches to leads labeled "Pull Switch/Push Button".*

REVERSING EDGE

(TS723 Installation Guide Page 2)

Note: When multiple reversing devices are used, i.e. photo eye & reversing edge, they must be wired in series to operate properly.

Plug in leads from reversing edge to connector on trailing edge side of header. On **biparting** doors, there is a connector on each side of header.

When edge is depressed (strikes an object), hose in reversing edge is compressed causing air to be forced against a diaphragm in the air switch which in turn, causes a pair of contacts to open and reverse (open) the door while it is closing.

Adjustment to the sensitivity of the reversing edge can be made by either turning in (more sensitive) or out (less sensitive) the adjusting screw located on the air switch.

PLEASE TAKE EXTRA TIME TO ENSURE THAT YOUR OPERATOR IS WIRED CORRECTLY

IF YOU HAVE ANY QUESTIONS, PLEASE CALL THE FACTORY BEFORE POWERING UP YOUR DOOR

SLIDING DOOR OPERATION & MAINTENANCE SCHEDULE

FRANK DOORS ARE MANUFACTURED TO PROVIDE MANY YEARS OF RELIABLE AND TROUBLE-FREE OPERATION WITH A MINIMUM OF MAINTENANCE, PROVIDED THAT THE DOORS ARE INSTALLED BY QUALIFIED COLD STORAGE DOOR INSTALLERS AND AS PER THE INSTALLATION MANUAL PROVIDED WITH EACH DOOR, HAS NOT BEEN DAMAGED OR ALTERED IN ANY WAY OTHER THAN SPECIFIED BY A FRANK DOOR AUTHORIZED REPRESENTATIVE, AND THAT THE DOORS ARE CHECKED PERIODICALLY USING THE SCHEDULE BELOW.

COOLER & FREEZER DOORS (MANUAL/ELECTRIC)

DAILY:

1. SMOOTH OPERATION

2. POSITIVE SEAL

3. DAMAGE

4. LOOSE, DAMAGED OR MISSING PARTS

WEEKLY:

1. GASKETS FOR TEARS, RIPS OR ANY OTHER DAMAGE

MONTHLY:

1. STAY ROLLERS, BOTTOM DOOR GUIDES, TROLLEYS & WHEEL ASSEMBLIES FOR PROPER ADJUSTMENT & OPERATION

FREEZER DOORS (MANUAL/ELECTRIC)

DAILY:

1. HEATER FOR PROPER OPERATION (SHOULD HAVE UNINTERRUPTED & SEPARATE POWER SUPPLY)

ELECTRIC DOORS

DAILY:

1. REVERSING EDGE FOR PROPER OPERATION

2. PULL SWITCHES FOR PROPER OPERATION

MONTHLY:

1. DRIVE CHAIN TENSION & LUBRICATION

PLEASE MAKE ANY & ALL ADJUSTMENTS TO ENSURE SMOOTH OPERATION & POSITIVE SEAL AS REQUIRED PER INSTALLATION INSTRUCTIONS PROVIDED WITH EACH DOOR. REPAIR AND/OR REPLACE ANY WORN, DAMAGED OR DEFECTIVE PART AS SOON AS DETECTED.