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1. **FORWARD**

   The following Installation Guide is for a standard Peelle product assembly. However, Peelle products are designed-built to suit many elevator conditions such as very large openings, limited elevator shaft dimensions, hoistway conditions and unique lift designs. Therefore special designs, arrangements or add-ons may not be covered in this manual. Refer to the installation drawings provided with your order for instructions on special components or arrangements.

   If you have any questions, concerns or require further details regarding your installation please call 1 (905) 846-4545 x 275, please have your Peelle Job Number handy. A Peelle technical support expert will help you save time and keep the installation moving.

2. **ELEVATOR CONTRACTOR RESPONSIBILITIES**

   PRIOR TO THE START OF PEELLE INSTALLATION, THE FOLLOWING SHALL BE PROVIDED BY OTHERS

   1) A running and operational elevator with platform, car safeties and a temporary run box. There should be no hot wires running to the equipment that Peelle will be replacing. This includes hall push buttons even if not being replaced by others.

   2) Clearances in conformance with Peelle layout drawings.

   3) Unless furnished by Peelle, all necessary electrical piping and wiring material required for the Peelle equipment.

   4) Electrical power in the machine room adequate for Peelle equipment and Peelle control system.

   5) 115V (230V where applicable), single phase power adequate for power tools.

   6) A suitable, secure, and conveniently located storage area for Peelle furnished materials, tools, and other equipment necessary to the installation of Peelle equipment. This area should be as close to the elevator as possible.

   7) Completed hoistway walls with entrance frames installed in conformance with Peelle requirements. Refer to Peelle Entrance Frame Installation Guide 208.

3. **BEFORE STARTING INSTALLATION**

   1) This is a two person job

   2) Safety Equipment

      ▶ Personal Protective Equipment

      ▶ Workplace Barricades

      ▶ Fall Protection

   3) Hoist or Crane - 2 required

      ▶ Mounted at top of hoistway

      ▶ Located at each side of the doorway
4) Tools required
- Measuring Tape
- Level
- Set Square
- Carpenters Clamps 24” [610mm]
- Hammer
- High Speed Drill
- Drill Bits HSS 11/32” [9mm] (5 per landing)
- Hammer Drill
- Masonry Bits 5/16” [8mm]
- Masonry Bits 1/2” [14mm]
- Impact Wrench
- 9/16” [14mm] socket
- Angle Grinder
- Chain Pin Extractor (Chain Breaker) (Peelle Part No. 0608)
- Open and closed ended wrenches (3/8” to 7/8”) [10mm to 22mm]
- Socket set (3/8” to 7/8”) [10mm to 22mm]
- Screwdriver Set
- Pliers

4. JOB NUMBER IDENTIFICATION

- Locate the peelle job number on the rails and door panels.
- Job numbers should match and include the line designation.
- Example: 100000 1A
  - 100000 = Job Number
  - 1 = Floor Designation
  - A = Front Line (C = Rear Line)

5. HANDING

- The following is an illustration of a typical freight elevator hoistway. The left and right hands (LH and RH) of door/gate hardware are viewed from inside the car looking out.
- Instructions shown here are typical for a car gate with a Peelle right hand mounted interlock and retiring cam. For left hand installations opposite configuration will be used.
- Line “A” Front and Line “C” Rear/Opposite are used by Peelle. Where there is more than one line of doors, the front is usually the side with the most doors.
6. SLIDE-UP LANDING DOOR INSTALLATION

6.1. GENERAL

Install hoistway landing doors before the car door(gate). If possible, install doors before the freight car enclosure (cab) is installed.

Use the moving elevator car platform for door installation. A full kit of hand tools will be required, including open-end wrenches, socket wrenches, screwdrivers, and various types of pliers. In addition, a good supply of drills (especially 9mm [11/32 in]) will be needed since these become dull rapidly from contact with concrete which is unavoidable when drilling into the channel steel entrance frame for door rail installation.

A heavy duty drill will be required. An electric impact wrench should be used for installing the self-tapping rail bolts.

Hoisting equipment will be required. Chain fall or electric hoist rated 1/2-ton [500 kg] are needed for door panels and counterweights. Make sure hoists and slings are in good condition.

6.2. DOOR GUIDE RAIL TYPES

The doors are guided in parallel door tracks on each side of the opening.

Single track rails are for one section slide-up doors. Double track rails are for two section slide-up doors and triple track for three section slide-up doors (see pg 3, Figure 1) & (see pg 3, Figure 2)

Door guide rails extend from the building sill up past the opening for a distance that depends on the telescopic panel configuration.

Door guide shoes often travel across a split in the rails for long rails that need to be split for manufacturing and shipping purposes.

Guide Rails are identified with the Peelle Job Number and floor designation (see pg 2, sec 4).

Figure 1 - Door Rail Types - depending on door size and configuration

The dimensions are for reference only and specific job requirements may alter what is shown.
6.3. DOOR GUIDE RAILS - LOCATION

The first step in the installation of freight elevator doors is the determination of the best horizontal location for rails on the flange of the vertical jambs. Take a survey of the actual jamb positions compared to the Peelle L-1 layout drawing.

This can be done by in one of the following ways:

a) Using the moving platform as a plumb mark if the car is operating, (see pg 12, sec 9).

b) Drop a plumb line or laser plumb guide.

For (a), a mark is made on the movable platform to simulate a plumb line. Take a measurement from that line as you would from a plumb line. For (b), a plumb line (wire) may be dropped near one side of the door frames. It is to extend from above the top door head jamb to within a few inches of the pit floor. A self-leveling laser plumb bob is worth the investment. Sit the device on the floor of the pit.

Check the vertical alignment of the vertical jambs. Take measurements at each floor to both jambs from the car platform mark or from the plumb wire. Fill out the chart provided (see pg 11, sec 8). Using these measurements and a comparison to the Peelle L-1 layout drawing, get an average guide rail setting for all floors in that line. Rails are to be set one above the other (in vertical alignment) from the bottom to the top of the hoistway.

Slide-up doors have independent operation and therefore perfect vertical alignment from opening to opening is not necessary. Misalignment of frames not exceeding 25mm[1in] is tolerable and does not require fixing or reseting of the frames.

Check the following clearances ensuring the door will fit in the required space. (see pg 11, sec 9)

- Car Clearance
- Running Clearance
- Building Sill

If frames are not parallel with the elevator platform use the rail shims to keep the rail straight and plumb. If more than 6mm [1/4"] of rail shims is required, weld a steel flat / bar (min. 6mm x 65mm [1/4” x 2 1/2”]) to the full length of the jamb flange, in order to make up the space.

Doors require that the distance between guides (DBG) dimension be 3mm [1/8 in] longer than the dimension between the base of the throats of the guide shoes. This should be checked on two or more door panels. Care in using the door gauge rod is important because at the same time the rails must be set exactly plumb. If you are careful with this procedure, you will install free running doors as the overall side-to-side play movement (left-right) will be 3mm [1/8 in] as recommended.

6.4. DOOR GUIDE RAILS – INSTALLATION

Position the center of the gauge rod on the center of the opening. Use this to position your first rail. (see pg 13, sec 11)
Install the door rails, beginning with the rails on the lowest landing.

Ensure the building sill is level across each opening (see pg 14, sec 12). The rail is to be placed even with the sill.

After the door is installed, the door astragal must be level from one side of the door to the other.

Set the interlock rail on the building sill and secure the rail to the entrance frame using two 610mm [24"] steel carpenter clamps (see pg 16, sec 14) Set the rail plumb. The top of the rail should not interfere with the opening above. Drill and bolt the rail using the self-tapping, locking, washer head bolts (see pg 17, sec 15).

The opposite rail, at each opening, should be located with the door gauge rod to maintain the proper door DBG (Distance between Guides) (see pg 18, sec 16). Use the door gauge rod at the top and bottom of the opposite rail. Check the opposite rail with a level or plumb line. Hold the rail with clamps (see pg 19, sec 17).

The holes to fasten the rails should be drilled using a 9mm [11/32"] high speed drill bit for the self-tapping bolts. Holes are drilled with the rails clamped in place. Bolts may be driven with an electric impact tool. The self-tapping bolts supplied have a washer head with locking. Additional washers are never used with rail mounting bolts. Rail mounting holes are slotted vertically and the bolts should be located at the top of the vertical slots.

Fasten the rail clips to the wall using masonry anchors (see pg 21, sec 19).

6.5. DOOR OPERATORS INTERLOCKS & OTHER COMPONENTS

A pair of door operators is necessary at each opening to support the chain (and thus the doors). The operators allow movement for opening and closing. Holes are provided in the door rails above the head-of-frame to bolt the operators in place. (see pg 22, sec 20)

Slide-up Peelle doors are equipped with an interlock on one side of the opening.

Interlock plug rods are shipped loose and must be installed before the interlock. Make sure the correct length of plug rod is used on the proper opening as lengths could vary for different openings. (see pg 23, sec 21)

Temporarily mount the interlock and mechanical lock using the top and bottom holes / slots provided (see pg 24, sec 22) exact vertical position will be set later

Install the position encoder in the predefined holes below the operator on the interlock side (see pg 25, sec 23)

6.6. DOOR PANELS

There are single or multiple door panels provided for each opening. Door panels for most openings are too heavy to move into place by hand and will require the use of a heavy duty drywall cart to move about. They will have to be set in place with a chain fall or electric hoist. If door panels are bowed from shipment, straighten before installing. Handle with care and protect fascia surface until completion. To check if the door panels have been twisted during
shipment, place panel on hoistway side of door rails, check if all four corners touch (not twisted).

Door panels are identified by the same system of factory markings as the rails (see pg 2, sec 4).

Before installing a door panel, be sure that no excess concrete mortar protrudes from the hoistway shaft wall that could scrape the door face and slow it down. Break off any suspected pieces with a hammer.

6.7. UPPER PANEL

Install the upper panel first. Unbolt the shoes opposite the interlock side. Peelle door guide shoes are solid, adjustable, fire-rated shoes.

The side of the panel with the largest (extended) shoe bar is the interlock side. The shoes are to be removed from the side opposite the interlock in order to install the upper panel.

Pick up the upper panel. The chain hoist must be securely placed high enough in the hoistway shaft to prevent being hit by the top landing upper panel. Use a sling around the upper panel (see pg 31, sec 25). Hoist the upper panel. Push the upper door panel into its approximate position, allowing the shoes to enter the guide rail. Push the other side (with the shoes removed) into position. Holding the upper panel in its correct location, slide the removed shoes along the rail into their positions on the upper panel. Bolt shoes onto the door panel. Use wood blocks to hold the upper panel in its closed position.

6.8. LOWER PANELS

Remove the shoes from either side of the lower panel. Using the chain hoist, start to pick up the lower panel with a sling. Take the slack out of the hoisting chain and sling (see pg 32, sec 26). Push the lower panel into the rails. Reinstall the shoes. Drop the lower panel (to its fully closed position), panels should overlap 50mm[2in]

6.9. COUNTERWEIGHT INSTALLATION

Remove the counterweight guide shoes, slide the guide shoes into the rail from the top down. Position and re-attach the counterweight to the shoes.

Hoist the counterweight up to the top of the track and secure the counterweight. The top of the counterweight shoe should be set flush with the top of the counterweight track (rail) (see pg 33, sec 27)

Install the chains (see pg 34, sec 28)

6.10. DOOR CHAINS & CHAIN RODS

LOWER PANEL

A pair of chains and chain rods are provided for each lower panel. Their function is to couple the door panels and counterweight together.
One end of each chain is connected to a chain stud on top of the counterweight, which is connected to the lower panel chain rod. The chain rods are threaded to allow for chain adjustment, when needed later.

Install the threaded end of the chain rod into the chain rod holder. Put one nut, a lock washer and second nut onto the threads, then cotter pin; move nuts and lock washer down to cotter pin, hold rod up temporarily with vice grips (see pg 37, sec 31).

Next attach the chain to the counterweight stud using connecting links. Pass the chain up and over the sheave and down to the lower panel chain rod mark and cut the chain to length at the top of the chain rod. Grind of the end of the pin and hammer out the pins. Use a chain breaker device if you have one. Attach the free end of the chain to the rod using chain connector link (see pg 37, sec 31).

UPPER PANEL

A pair of chains and chain studs are provided for each upper panel. Their function is to couple the upper panels to the top spreader (dead end hitch).

One end of each chain is connected to a chain stud on the spreader (dead end hitch), the other end is routed around a roller on the lower panel to the panel pickup.

Install the threaded end of the chain stud into the spreader. Put one nut, a lock washer and second nut onto the threads, then cotter pin, ensure nuts are backed off against the cotter pin.

Next attach the chain to the upper panel pickup using connecting links, pass the chain around and up to the spreader (dead end hitch). Mark and cut the chain to length. Grind of the end of the pin and hammer out the pins. Use a chain breaker device if you have one. Attach the free end of the chain to the rod using chain connector link.

Use the hoist to lower the counterweight until it is held up by the chains. Make sure that all chain connecting links are properly connected. Chain connector clip should have legs pointing downward. Wrap connecting links and connector clips at each end of the chain with the nylon tie-wraps provided (see pg 34, sec 28).

Peelle chains are lubricated by the manufacturer. NO OIL or GREASE is required upon initial installation.

6.11. TO ADJUST DOOR CHAINS AND DOOR PANELS

After the chains are connected, the door panels must be properly adjusted. Most of the adjustment, if necessary, is accomplished by moving the nuts up on the chain as rod (see pg 37, sec 31) & (see pg 38, sec 32). Some links of chain may have to be removed to achieve desired adjustment.

TO ADJUST COUNTERWEIGHT POSITION

When the doors are fully closed the counterweight should not extend beyond the rails or interfere with the door operators. When the doors are fully open the counterweight should not....
extend beyond the rail. Adjust the position of the counterweight using the chain rods located on the lower panel. Remove chain links as necessary.

**ADJUST THE UPPER PANEL**
Upper panel should overlap the lintel and lower panel by 50mm[2in]. Adjust the panels with the doors fully closed using the chain studs. Remove links as necessary. Open doors to ensure all panels fully clear the opening.

**TO REMOVE CHAIN LINKS**
Fully close the panels, and relieve tension on the door chains, by hoisting the counterweights, using a chain hoist.

Make sure the nuts are almost touching the cotter pins near bottom of each chain rod, clamp the rods with vice grips positioned on top of the rod holders, disconnect the chains, remove links from both chains with a chain breaker.

Reconnect the chains. Carefully remove the chain hoist from the counterweight and remove the temporary clamps (vise grips) from the chain rods.

6.12. **ADJUST PANEL BETWEEN GUIDES**
Allow 3mm [1/8 in] overall side-to-side play. The side-to-side play should be the same at the top and bottom shoes of each panel to make sure the doors operate freely. There should be little need for chain adjustment if the rails are plumb and the panels are an equal distance apart vertically, both sides, when fully open. If necessary, adjust the “adjustable” shoes inward or outward to achieve 3mm [1/8 in] side-to-side play. *(see pg 50, sec 40.3)*

Do not leave the doors in an open position without a barricade. Bolt the doors closed or lock them with an interlock.

6.13. **FOR INTERLOCKS, OPERATORS AND OTHER COMPONENTS**
*(see pg 47, sec 40)*
7. DOOR ASSEMBLY

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2 SECTION
## 8. FLOOR HEIGHT CHECK

- Check floor height against layout drawings (Peelle L-1).
- Ensure rails fit between floors.

### ELEVATION

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9. CLEARANCE CHECK

Measure the distance between the platform & entrance frames “car clearance” (both sides) see dimension A and B. Dimensions will be used later for adjusting and shimming the rails.

![Diagram of clearance check]

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10. AVERAGE OPENING CENTERLINE

Openings are generally not perfectly centered. Follow these steps to get entrance aligned at each floor.

10.1. MARK JAMB POSITION AT EACH FLOOR

Mark platform showing the position of the frame at each floor.

10.2. AVERAGE OPENING CENTERLINE

Determine your “Average Opening Centerline”. Measure the distance between the 2 farthest marks on your platform and mark the center.

Slide-up doors have independent operation and therefore perfect vertical alignment from opening to opening is not necessary. Misalignment of frames not exceeding 25mm[1in] is tolerable and does not require fixing or resetting of the frames.
11. LOCATING CENTER OF THE OPENINGS

DBG = Distance Between Guides

11.1. POSITION THE CENTER OF THE GAUGE ROD ONTO THE AVERAGE OPENING CENTERLINE.

11.2. NEXT TRANSFER THE DBG TO THE PLATFORM.
12. BUILDING SILL LEVEL CHECK

12.1. LEVEL THE SILL

Ensure Building Sill is Level +/- 3/8” [6mm]. If sill is out more than 1/4in [6mm] have sill corrected.

12.2. POSITION THE RAIL

Always install the bottom of the rail sitting on the building sill.
13. GUIDE RAIL INSTALLATION - OVERVIEW

- SPREADER
- GUIDE RAIL
- COUNTERWEIGHT TRACK
- HEADER
- JAMB
- BUILDING SILL
- LEFT HAND RAIL
- RIGHT HAND RAIL
- RAIL BOLT
- CLIP ANGLE
14. RAIL INSTALLATION

1) Locate the job number and floor designation on the rail
2) Set rail on building sill
3) Clamp the rail to the entrance frame
4) Set the DBG using set square and markings
5) Ensure the rail is level in the vertical direction

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15. RAIL BOLTING

15.1. RAIL BOLTING

1) Drill 11/32" [8.5mm] hole into steel entrance frame. Approximately 1/2in [13mm] deep. Avoid drilling into masonry wall. When drilling through rail slot ensure hole is in top of slot.

2) Drill 5/16in [8mm] hole into masonry wall. Approximately 1 1/2in [38mm] deep.

3) Use 9/16" [14 mm] impact driver to install #06004 Rail Bolt. Do not use washers. Only install rail bolts into steel entrance frames.

15.2. SHIM RAIL AS NECESSARY.

Refer back to “Car Clearance Check”.

15.3. IN ORDER TO KEEP RAILS PLUMB AND MAINTAIN THE CORRECT CAR CLEARANCE USE “0629 RAIL SHIMS”

1) Loosen rail bolt
2) Hook the rail shim onto the rail bolt
3) Tighten rail bolt
4) Check rail is plumb

Maximum of 6 shims per bolt, if you require more than 6 shims weld flat bar to frame.

DOOR RAIL TYPES DEPENDING ON DOOR SIZE AND CONFIGURATION

<table>
<thead>
<tr>
<th>RAIL A</th>
<th>RAIL B</th>
<th>RAIL C</th>
<th>RAIL D</th>
<th>RAIL E</th>
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</thead>
</table>

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16. HOW TO USE GAUGE ROD - OVERVIEW

 DBG = Distance Between Guides

 DOOR RAIL GUIDE = Is the leading edge of the guide rail

 - The gauge rod is used to correctly space the left rail from the right rail, this will allow your door panel to fit perfectly between the rails and operate smoothly.
 - We will be using the gauge rod to locate the center of our door rails onto the center of our opening.
 - After installing one side of your rail, position and clamp the opposite rail onto the entrance frame.
 - Using the gauge rod, position the door rail guides against the gauge rod.
 - Before drilling and bolting the rail hold the gauge rod level between the two rail guides.
 - Slowly move the gauge rod up and down the rail, keeping the rod gauge level.

 DOOR RAIL TYPES - DEPENDING ON DOOR SIZE AND CONFIGURATION

![Diagram of guide rail and gauge rod]
17. RAIL INSTALLATION - OPPOSITE SIDE

1) Locate the job number and floor designation on the rail
2) Set rail on building sill
3) Clamp the rail to the entrance frame
4) Use a level to ensure upright vertical position
5) Use gauge rod to ensure rails ARE CORRECT distance apart (DBG)
6) Drill and bolt rail into position

---

<table>
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<td>1</td>
<td>770274</td>
<td>RAIL B - DESIGN 2</td>
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</table>

---

Do not increase the DBG, the doors will not install or operate properly.

Locate job number and floor designation.

---

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18. **SPREADER INSTALLATION**

Install spreader between rails with hardware provided.

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<td>3/8&quot;-16 x 1 1/2&quot; Lg HEX HD BOLT ZP</td>
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</table>
19. ATTACH CLIP ANGLES TO WALL

After all rails are installed, use gauge rod at top and bottom of rails to ensure correct distance apart is maintained.

Use masonry anchor bolts to secure rails to wall, wherever rail clips are provided.

<table>
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<td>800061</td>
<td>3/8-16 x 1 HH BOLT ZP</td>
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<tr>
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<td>1</td>
<td>770279</td>
<td>SPREDER ANGLE</td>
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</table>
20. OPERATORS

Slide up doors require two power operators for power doors or manual sheaves for manually operated doors.

1) To start, position operators in the center of the slots.
2) Tighten bolts, adjustments will be made later.

<table>
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<tr>
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<tr>
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<td>4</td>
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<td>1/2&quot;-13 x 1 1/4&quot; Lg HEX HD BOLT ZP</td>
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<tr>
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<td>1</td>
<td>0569RM</td>
<td>OPERATOR ASSY</td>
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</table>
21. PLUG ROD INSTALLATION

The tamper resistant plugging device is made up of two components, the plug rod and the plug proof trigger.

The plug rod must be installed before the interlock.

1) Locate the plug proof trigger, you will find this already mounted to the door rail.
2) Insert plug rod into the plug proof trigger, screw rod all the way in.
3) Adjust collar so spring is fully compressed when door opens.

Do not tighten, adjustment will be made later.

---

23 | 1 | 235620 | PLUG ROD GUIDE ANGLE
23 | 1 | 033005 | SPRING
23 | 1 | 235619 | PLUG ROD COLLAR
23 | 4 | 1133618 | 1/4 MEDIUM SPLIT LOCK WASHER Z
23 | 4 | 110120300 | 1/4"-20 x 1/2" Lg HEX HD BOLT ZP
23 | 2 | 1136106 | 3/8"-16 HEX NUT Z
23 | 1 | 235615 | LOCKING BAR TOP ADJUSTABLE BAR
23 | 1 | 23561 | CONTACT PLUGGING DEVICE ASSEMBLY

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22. INTERLOCK INSTALLATION

1) Insert the interlock onto the plug rod and align interlock slots with mounting holes.
2) Loosely tighten the bolts. Vertical position of interlock will be set later.
3) Where provided install adjustable extended roller arm without filler.

**TABLE**

<table>
<thead>
<tr>
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<td>2356-67R</td>
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<tr>
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<td>235615</td>
<td>PLUG ROD</td>
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</table>

**Diagram**

- Insert the interlock onto the plug rod.
- Loosely tighten the bolts. Vertical position will be set later.
- Where provided, install the adjustable extended roller arm without filler.
23. POSITION ENCODER INSTALLATION

For power doors with wireless controllers install the positional encoder on the interlock side.

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<td>1137337</td>
<td>1/4-20 SERRATED HEX NUT Z</td>
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<td>1</td>
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<td>DOOR ENCODER IDLER</td>
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24. PANEL INSTALLATION

24.1. INSTALL A HOIST OR CHAIN FALL

- Mount the chain fall directly to the hoistway wall above the opening.
- Center hoist above the opening
- Mount hoist high enough to lift upper panel to open position (i.e. > 1 1/2 Opening height from the floor)

![Diagram showing installation of a hoist or chain fall with dimensions labeled.](image)
24.2. POSITION PANEL CRATE AND CONNECT STRAPS

- Locate the correct panel for the opening.
- All panels are marked on the shoebar with the Job Number and floor designation.
- Center the crate in the opening.
- Secure two straps to the panel.
- Use the choke method.
- Connect each strap to the chain fall.
24.3. LIFT PANEL AND REMOVE CRATE

- Hoist panel off the crate.
- Remove the crate from the opening.
- Position two support blocks on floor.

*Note: #0606 Door Dolly may be required to help position panel.*
24.4. ROTATE THE PANEL

Panels are shipped upside down (heavy side down)

- Lower the panel onto the blocks.
- Reposition the straps, to pickup from the top of the panel.
- Lift the panel into the upright position.
- Lift panel to upright position.
24.5. HOIST THE PANEL INTO POSITION

➤ Hoist the panel into position ready for insertion into landing door rails.
25. INSTALL THE UPPER DOOR PANEL

Skip this step if you are installing a single section door

1) Remove shoes from one side
2) Install the upper panel and support with wood blocks

 PLAN VIEW SHOWING UPPER PANEL

To Chain Fall Device

Plan View Showing Upper Panel

To Chain Fall Device

Swing the shoebar into the rail and engage the shoe onto the guide. Re-attach the shoes.

Use blocks to support the upper panel.

Ensure panels lap opening and each other minimum 50mm [2in]

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26. LOWER PANEL INSTALLATION (OR SINGLE SECTION)

1) Remove the lower panel pickups
2) Remove guide shoes from one side
3) Install the lower panel and rest panel on sill

1. Peelle Job Number and Floor Designation

Remove shoes on small shoebar side.

Note:
Re-attach shoes to the same location.

2. REMOVE THE LOWER PANEL PICKUPS


4. SIT PANEL ON THE SILL

RE-ATTACH THE LOWER PANEL PICKUPS
27. COUNTERWEIGHT INSTALLATION

1) Attach the counterweight guide shoes
2) Hoist counterweight into place
3) Set the top of the counterweight flush with the track
4) Support the counterweight using wood blocks

<table>
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<td>3/8-16 x 3/4&quot; HEX CAP SCREW Z</td>
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<tr>
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<td>3/8&quot; FLAT WASHER Z</td>
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<td>8</td>
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<td>3/8&quot; LOCK WASHER Z</td>
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<td>COUNTERWEIGHT</td>
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USE BLOCKS TO SUPPORT THE COUNTERWEIGHT
28. 2 SECTION - CHAIN SUSPENSION OVERVIEW

UPPER PANEL

LOWER PANEL

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30. CHAIN CONNECTION DETAIL

To remove links you will need to grind off the head of the pin. Then use the Peelle #0608 Chain Pin Extractor to pop out the pin.

Ensure clips are always facing down as shown.

Always use tie wraps to secure the connection link.
### 31. LOWER PANEL ROPING (OR SINGLE SECTION)

#### STEP 1

**Use vice grips to secure chain rod while connecting the chain.**

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<td>1/8&quot; x 1&quot; Lg COTTER PIN</td>
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<td>1/2&quot; MEDIUM SPLIT LOCK WASHER Z</td>
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Skip this step if you are installing a single section door.

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33. PULL STRAPS (MANUAL OPERATION)

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34. **RATCHET PIECE**

Install ratchet piece. Use two shims for initial installation.
Position will be adjusted later.

---

**DESCRIPTION**

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</table>

035501 SHIM MAY BE REQUIRED BETWEEN RATCHET PIECE AND HANGERBAR
35. FILLER ANGLES

Adjust filler angles to maintain 6 mm [1/4 in] gaps between panels.

<table>
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36. EMERGENCY UNLOCKING DEVICES

Door Emergency Unlocking Devices are provided for each landing except jurisdictions which restrict their use. Check local code and Peelle layout Drawing L-1. The unlocking device is used to unlock a hoistway landing door for access to the hoistway shaft by authorized personnel. It is mounted on the wall next to the door. It is operated by a key that unlocks a box and exposes a chain. The chain is pulled to unlock the door. See below figures.

To install the unlocking device, a hole must be drilled through the building wall for the chain. Use an electric hammer drill. Make sure the hole is drilled so that the unlocking device pull chain will meet the interlock roller. Attach the chain to the interlock roller arm with a 1/2 in nut. When the device cover is locked in closed position, there should be enough slack in the chain to let the locking arm rest in its locked position.

For power doors, a switch inside the unlocking device prevents power door operation when the door unlocking device is unlocked. Make sure power for door operation is not available after the key that unlocks the device is turned and the chain is pulled. Manual re-activation of door operation is required. If power is available at this time, check the electrical connection of the wires to the unlocking device and the door zone contacts.

The door unlocking device is not to be confused with an access switch, as elevator operation must be completely unavailable when the door unlocking device is in use. Unlocking devices are used instead of access switches when certain requirements are met.
- Drill 1” [25mm] hole though wall directly behind roller arm connection
- Attach chain with “S” hook and leave slack in chain
- Make electrical connections to controller

- For installations on large doors or interlocks mounted low, use the chain redirection kit provided #230068.
<table>
<thead>
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## 38. DOF (DOOR OPEN FINAL LIMIT)

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**Guide No. 245-EN**

1 & 2 SECTION SLIDE-UP DOOR INSTALLATION GUIDE

Date: Jan 23/2020
### 39. MICRO SWITCH LIMIT ARRANGEMENT

<table>
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<td>1/4-20 x 1 1/4 CARRIAGE BOLT ZP</td>
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<td>1/4-20 SERRATED FLANGE HEX NUT ZP</td>
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<td>MICROSWITCH CAM</td>
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<td>4</td>
<td>1133614</td>
<td>#10 SPLIT LOCK WASHER Z</td>
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<td>#10-24 x 1 1/2&quot; Lg ROUND HD SCREW ZP</td>
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<td>DOF / ASO BRACKET</td>
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Guide No. 245-EN
1 & 2 SECTION SLIDE-UP DOOR INSTALLATION GUIDE

Date: Jan 23/2020
40. FINAL ADJUSTMENTS

PERFORM THE FINAL ADJUSTMENTS ON THE LISTED COMPONENTS.

OPERATORS & ENCODER
(see pg 48, sec 40.1)

LEVEL THE PANELS
(see pg 49, sec 40.2)

SIDE TO SIDE PLAY
(see pg 50, sec 40.3)

PLUGGING DEVICE
(see pg 55, sec 40.9)

INTERLOCK SETTINGS
(see pg 51, sec 40.4)
40.1. OPERATOR ADJUSTMENT

1) Adjust the door operator using the mounting slots, ensure the center of sheave and chain rod are in line (keep door chain perfectly vertical).

2) Adjust the door encoder (if supplied), ensure the encoder sprocket rides smooth along the chain.
40.2. LEVEL THE PANELS

TO BEGIN

- Close the door panels.
- Adjust nuts on all rods & studs so they are against the cotter pin.
- This allows for the easy future chain stretch adjustment
- If there is slack in the chain, remove chain links.

CHECK OPENING AND CLOSING SEQUENCE

Ensure panels are level and parallel with each other during the full open and close operation.

ADJUSTMENTS

UPPER PANEL ADJUSTMENTS

With doors in the closed position, adjust the chain stud nuts (on the spreader) to raise and lower the upper panel.

COUNTERWEIGHT ADJUSTMENT

With doors in the closed position, adjust the chain rod nuts (on the lower panel) to raise and lower the counterweight position.

CHAIN STUD NUTS (SPREADER)

CHAIN ROD NUTS (LOWER PANEL)
40.3. SIDE TO SIDE PLAY

- Guide shoes have angled slots.
- Adjust the gap between Guide Shoe and rail to 1/16” [1.58 mm] each side.
- Allow Maximum panel movement between guides 1/8” [3.175 mm].
40.4. INSTALL KEEPER HOOK, UPPER PANEL HOOK AND SET POSITION OF THE INTERLOCK

The keeper hook for the interlock must be bolted to the hanger bar on the lower panel. This lower panel lock keeper hook and the upper panel lock keeper, prevent the door panels from being opened when the interlock roller is extended (locked).

Set the interlock ratchet 8mm [5/16in] below the lower keeper hook with the doors closed, chains adjusted and side-tension-latches working; set the 8mm [5/16in] dimension by moving the interlock plate up or down in the slots, then securely tightening the bolts.

Ensure the keeper hook has at least 8mm [5/16in] locking engagement with the top of the ratchet. (see pg 51, Figure 3). Ensure keeper hook clears the ratchet teeth while opening the door. Use shims to space the hook in or out to obtain clearance if necessary.

Attach/adjust upper panel keeper hook to side-tension-latch on interlock side as shown in (Figure 3). There is one style keeper for regular doors (066975) and another for pass-type doors (066976). If door has side-opposite-lock (mechanical lock for wide doors) on the side opposite the interlock, attach/adjust an upper panel lock keeper also on that side, in addition to a lower panel keeper hook.

Add pinning bolts (see pg 52, Figure 4) drill 8mm [5/16in] holes (through the holes supplied in the rail) into the interlock plate, near the middle. Then tap interlock plate M10 or 3/8 UNC. Insert 20mm or 3/4in long roundhead bolts (see pg 52, Figure 4). The interlock vertical position should never change. From this point on only the panel position can be adjusted.
40.6. PIN THE INTERLOCK

1) Drill through existing 3/8” [10mm] rail holes.
2) Bolt and pin interlock in place.
3) Interlock will not be adjusted again in live of product. Only the panels will be adjusted.

Figure 4 - Pining the Lock
40.7. ADJUST THE DOOR CLOSE CAM AND KICK-OUT ARM

Set the door closed cam to open the DC contact when the door panels are more than 20mm [3/4 in] apart. A handy guide for the DC contact setting is to put the hook in the “first” notch see (see pg 53, Figure 5) step 1. The DC contact should be slightly open. At this setting, the contact should be definitely made (closed) when the doors are closed. Check that the contact is still made when the door is pushed toward the hoistway shaft from the room side approximately 3mm [1/8 in]. The cam should have 2mm [1/16 in] horizontal free movement away from the hanger bar when the doors are closed (see pg 53, Figure 5) step 2 for normal door closed position see (see pg 53, Figure 5) step 3.

Adjust kick-out arm separately to positively open DC contact when the door panels move more than 20mm [3/4 in] apart (see pg 53, Figure 5) step 4, the DC contact should never make when the door keeper hook is in an unlocked position. The DC contact is to be held mechanically open by the tamper resistant plugging device. Replace the DC contact cover on the contact box as soon as possible to make sure the insulating paper does not get torn.
40.8. SET THE ROLLER ARM

The roller arm of the interlock is normally attached in the factory. Make sure locking arm spring is in place and working.

Ensure locking arm falls forward, easily and fully and rests on the mechanical stop (see pg 54, Figure 6). Stop block (located on the contact shaft, in the upper interlock box) should just touch the bottom fixed guide block, when the locking arm is fully dropped (see pg 54, Figure 7).

Contact shaft should drop enough to allow the locking arm to fall forwards fully and rest on the mechanical stop. Adjust the stop block and/or raise the upper interlock box to hold the factory 60mm [2-1/2 in] dimension.

Stand on landing side and make sure the door panels cannot be shaken open when they are closed and locked (retiring cam held up or elevator away). Try again while you are pushing the lower panel toward the elevator (retiring cam held up or elevator away).

Figure 6 - Roller Arm Setting

Figure 7 - Contact Switch Assembly
40.9. TAMPER RESISTANT PLUGGING DEVICE

The tamper resistant plugging device is made up of two components, the plugging rod and the plugging trigger.

The trigger portion of the device is actuated by the opening movement of the lower door panel, the trigger then pushes the rod into the DC contact (lower box). The rod movement keeps the DC contact open which prevents the DC contact from being closed until the lower panel is returned to the closed position. The rod should be set to lock the contact arm immediately after the contact arm moves to the full open position. The rod should hold “Door Closed” DC contact open as soon as the contact opens.
**Figure 8 - Plug Rod Setting Closed**

**Figure 9 - Plug Rod Setting Open**