



F.A.S.T. TRACK®
FLUSH FLOOR SLIDE-OUT
OEM INSTALLATION MANUAL

TABLE OF CONTENTS

Introduction	3
Safety	3
Slide-Out Chassis Specification	4
Laminate Builds	4
Stick and Tin Builds	4
Recommended Wall Construction or Equivalent	5
Travel Trailer	5
5 th Wheel	5
Main Frame Supports on Topside Slide-Out Room	5
Square	6
Slide-Out Room Endwalls	6
Slide-Out Room Floor Cutout	7
Slide-Out Room Underside	7
Prior to Installation	8
Resources Required	8
Measurements For Wall Cutout	8
Installation	10
Upper Exterior Wipe Seal	10
Floor Pan and Drip Pans	11
Columns	12
Upper Interior Wipe Seal	13
Anchor Tabs	14
Interior Column Clamps	15
Front Wipe Seal	16
Exterior Anchor Brackets	16
Slide-Out Room	17
Interior Anchor Bracket	18
Controller	19
Wiring Harness Definitions	20
Motor Harness	20
Power Harness	20
Switch Harness	20
Programming	21
Setting the Retract Stop Point	21
Setting the Extend Stop Point	21
Prior to Operation	21
Operation	22
Extending the Slide-Out Room	22
Retracting the Slide-Out Room	22
Troubleshooting	22
Fault Codes	22
Manual Override	23
Installation Checklist	23

Introduction

The F.A.S.T. Track® (Fast Assembly Self Tensioning) Flush Floor Slide-out is for the sole purpose of extending and retracting the slide-out room. Its function should not be used for any other purpose or reason other than to actuate the slide-out room. To use the system for any reason other than what it is designed for may result in death, serious injury or damage to the unit.

Safety

WARNING

The "WARNING" symbol above is a sign that an installation procedure has a safety risk involved and may cause death, serious personal injury, severe product or property damage if not performed safely and within the parameters set forth in this manual.

WARNING

The frame and chassis **MUST** be supported per manufacturer's recommendations before working underneath. Failure to do so may result in death, serious personal injury, severe product or property damage.

WARNING

Always make sure that the slide-out room path is clear of people and objects before and during operation of the slide-out to avoid serious personal injury. Always keep away from the cables when the room is being operated.

CAUTION

Always wear eye protection when performing service or maintenance to the chassis/frame. Other safety equipment to consider would be hearing protection, gloves and possibly a full face shield, depending on the nature of the service.

CAUTION

Moving parts can pinch, crush or cut. Keep clear and use caution.

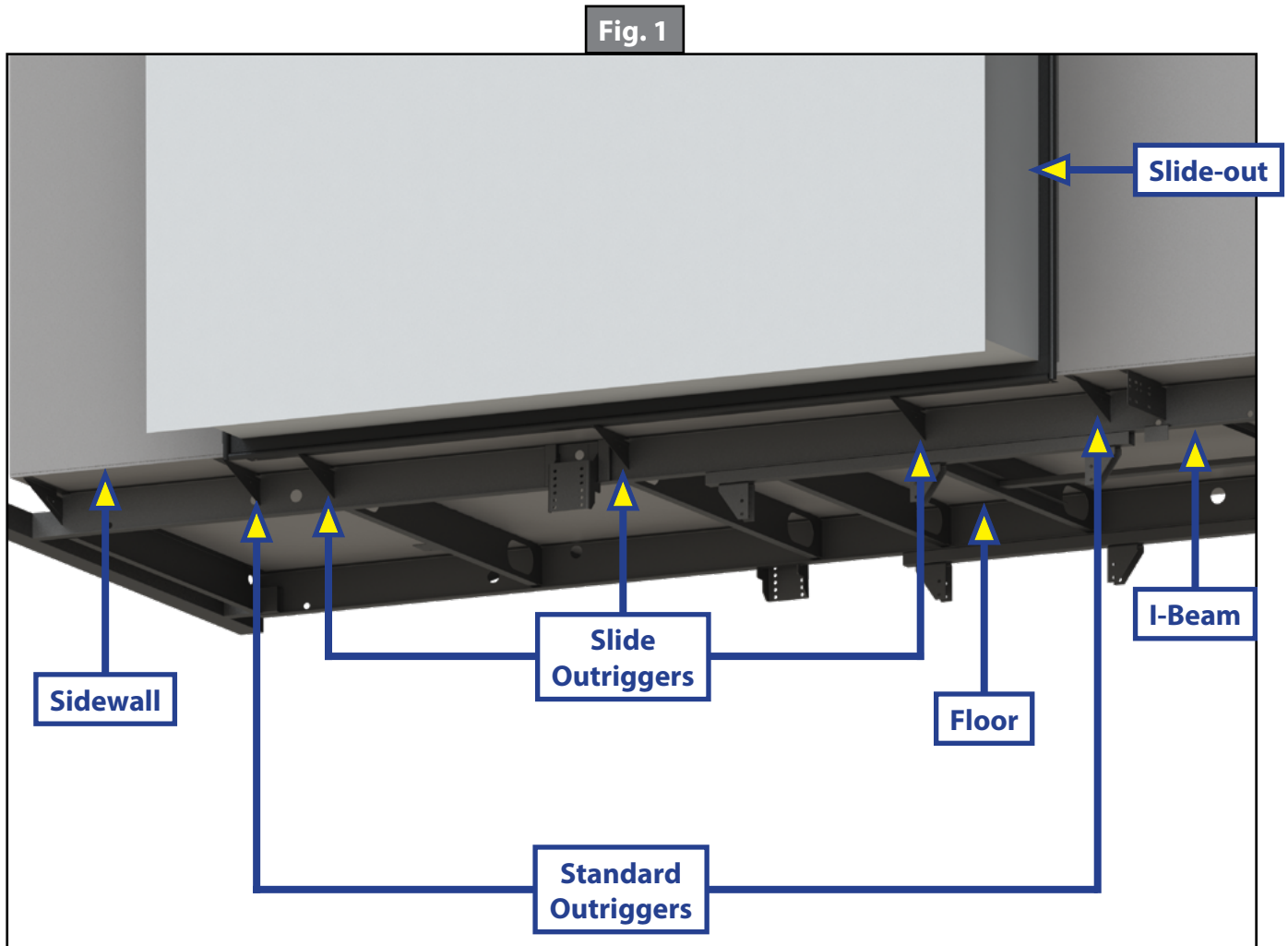
Slide-Out Chassis Specification

This section will show F.A.S.T. Track Slide-out systems for laminate and stick and tin builds. Any alteration to these specifications must be tested and approved by Lippert.

NOTE: Water tanks **MUST NOT** be attached to the F.A.S.T. Track Slide-out room.

Laminate Builds

For a laminate build, LCI requires at least two slide outriggers, regardless of the length or size of the room (Fig. 1). Slide outriggers should be placed under the heaviest points of the room. If the slide room is at least 144", a third outrigger is required. Add an additional outrigger for every 48" thereafter.



Stick and Tin Builds

For all stick and tin builds (Fig. 1), one standard outrigger is to be placed at the beginning and end of each slide room opening. Two slide outriggers are required under each slide room. Slide outriggers should be placed under the heaviest points of the room. If the slide room is at least 72" in width, a third outrigger is required. Add an additional outrigger for every 36" thereafter.

Recommended Wall Construction or Equivalent

Vertical uprights stuffed with wood may not be required if using an alternate method tested and approved by Lippert.

Travel Trailer

The slide-out opening perimeter needs to be 1" x 3" x 0.060" aluminum for the header and vertical uprights. The header should extend 24" beyond the vertical uprights for extra support (Fig. 2). The vertical uprights need to be stuffed with wood for securing F.A.S.T. Track Slide-out columns. If the vertical uprights have a minimum wall thickness of $\frac{1}{8}$ ", the uprights do not need to be stuffed with wood.

5th Wheel

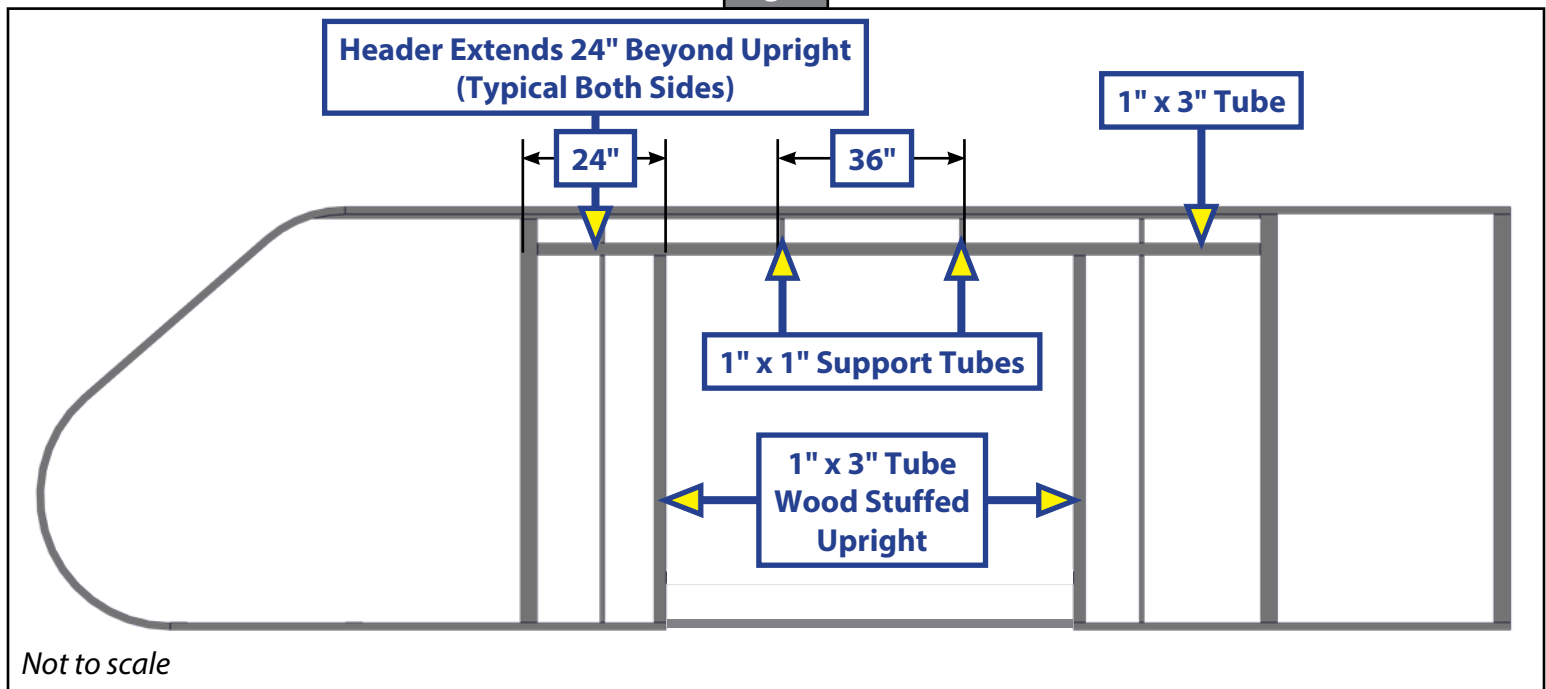
The slide-out opening perimeter needs to be 1" x 5" x 0.070" aluminum for the header and 1" x 3" x 0.070" for the vertical uprights. The header should extend 24" beyond the room opening. Vertical uprights should be stuffed with wood (Fig. 2) for securing F.A.S.T. Track Slide-out columns. If the vertical uprights are at least $\frac{1}{8}$ " thick, the uprights do not need to be stuffed with wood.

Main Frame Supports on Topside Slide-Out Room

The following instructions are based off a 1" sidewall thickness. For example, a 1 $\frac{1}{2}$ " x 3" tube may be used if walls are 1 $\frac{1}{2}$ " thick.

1. Supports need to be at least 0.040" aluminum and 1" x 1" aluminum tube and should extend from the header up into a cross tube. If the room size in the slide wall is less than 4' wide, no vertical supports are needed above the header.
2. Any room that is more than 4' and up to under 8' needs to have one support centered on the room.
3. Every room that is over 8' up to 12' needs to have two vertical supports evenly spaced over the top of the room.
 - A. For example, a 9' opening would have a vertical support 36" in from each upright.
 - B. For every 4' in room width, one more vertical support will be needed.

Fig. 2



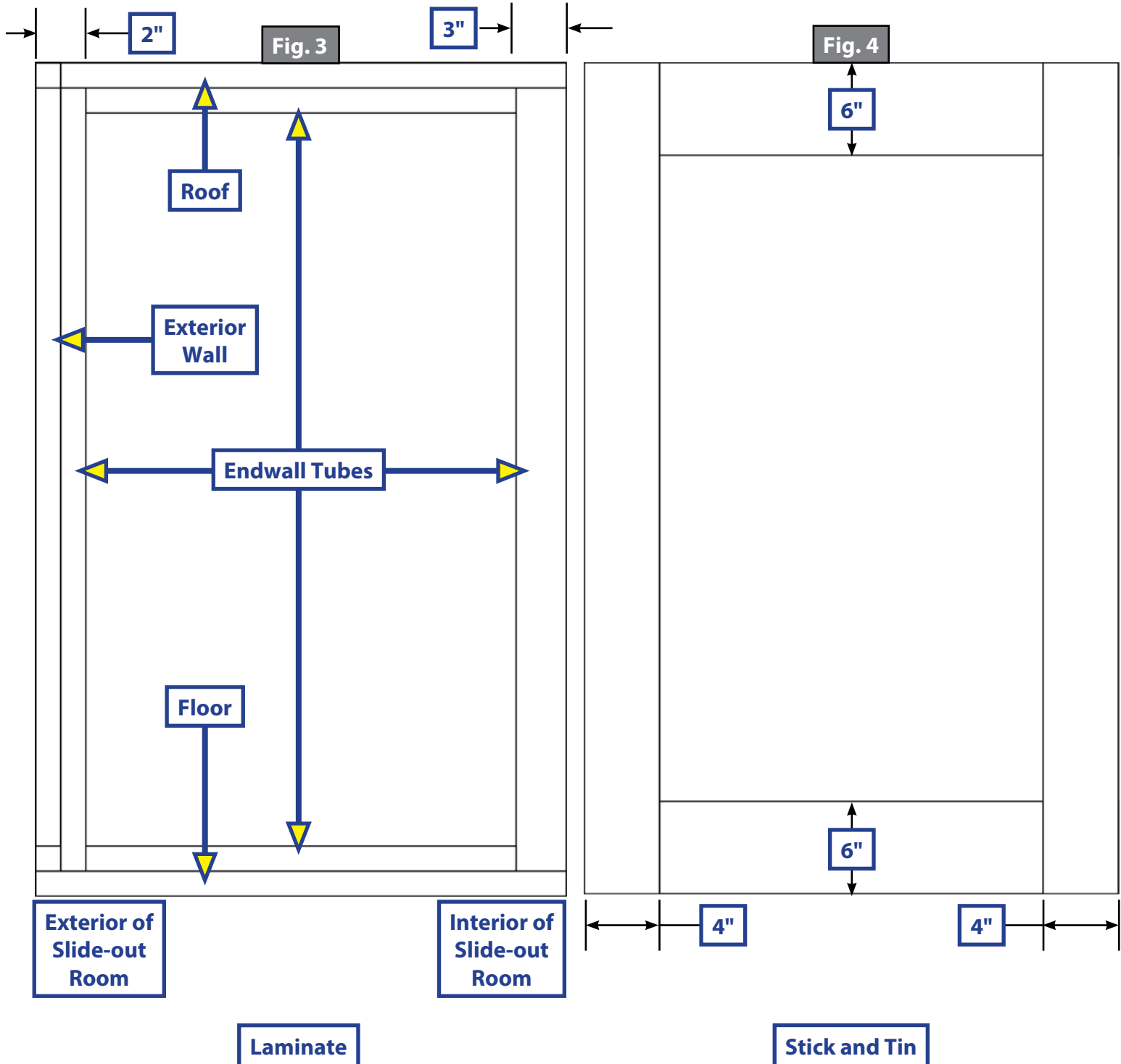
Square

The wall cutout and slide-out box **MUST NOT** be more than $\frac{1}{2}$ " total out-of-square.

Slide-Out Room Endwalls

The endwalls of the slide-out box must have a framing that will support the F.A.S.T. Track Slide-out cable anchor brackets.

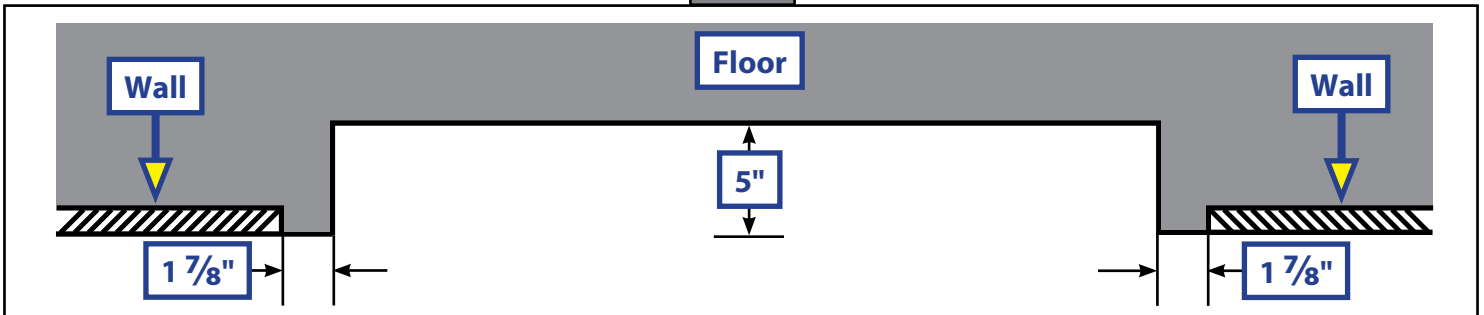
1. For laminate builds (Fig. 3), LCI requires aluminum tubes be used as backers.
 - A. The dimensions of these tubes can vary; however, the exterior wall when combined with the endwall tube must be at least 2" wide.
 - B. The interior tube must be a minimum of 3" wide.
2. For stick and tin builds (Fig. 4), LCI requires a 1" x 4" laminated wood backer on the sides of the endwall and a 1" x 6" laminate wood backer for the header and footer of the endwall.



Slide-Out Room Floor Cutout

When cutting the opening for the F.A.S.T. Track Slide-out room, the opening should be $2\frac{3}{4}$ " wider than the box on either side to accommodate the drip cups and columns. A recessed area will then need to be cut into the floor. The recessed area should be $1\frac{7}{8}$ " narrower than the rough opening on either side (Fig. 5). Tape the edges of the rough opening with fiberglass tape.

Fig. 5

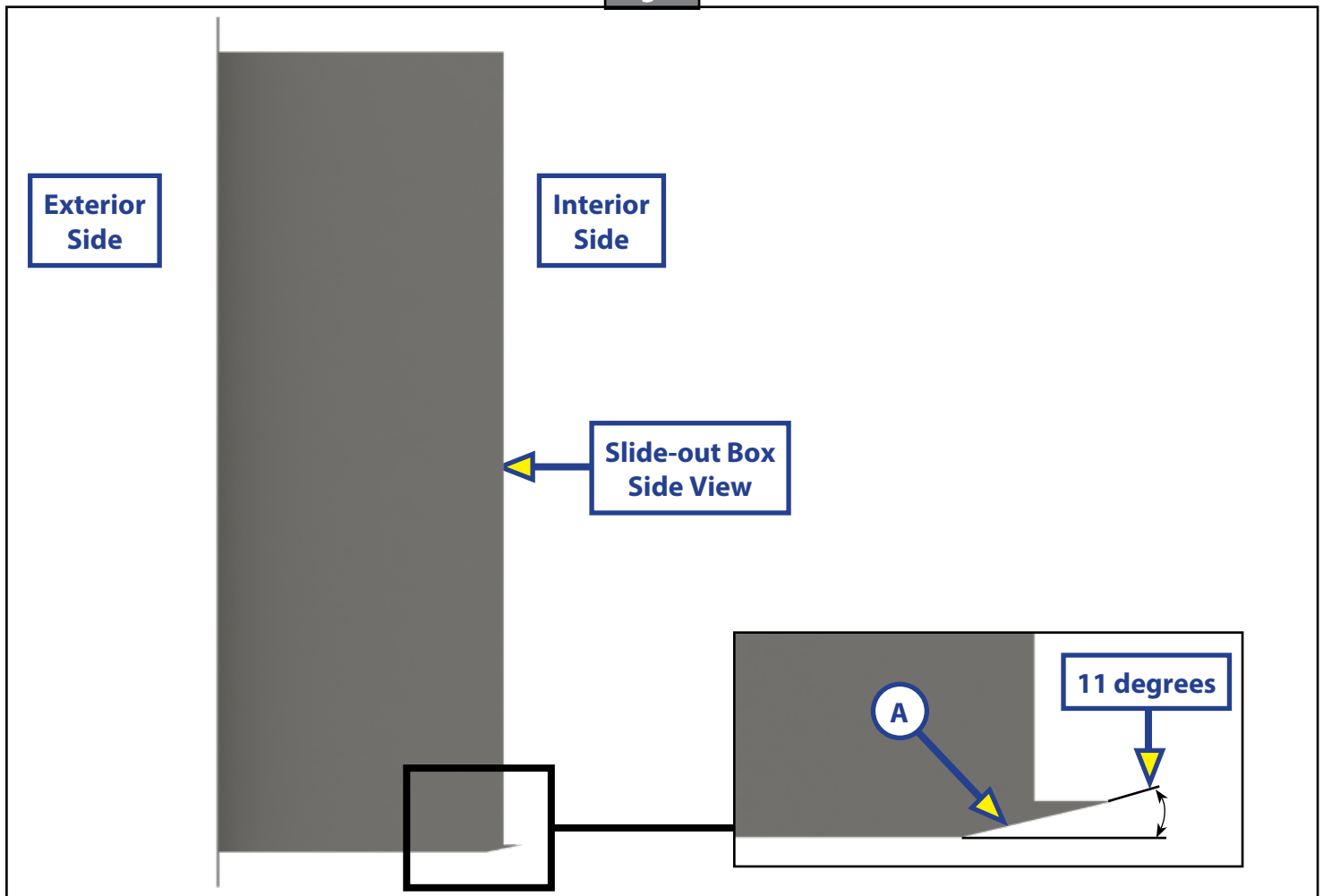


Slide-Out Room Underside

The slide-out box needs to have an 11-degree angle on the bottom edge (Fig. 6A) to allow the box to slide into the opening.

NOTE: LCI recommends that the wood floor of the box ride directly on the flush floor wear bar.

Fig. 6



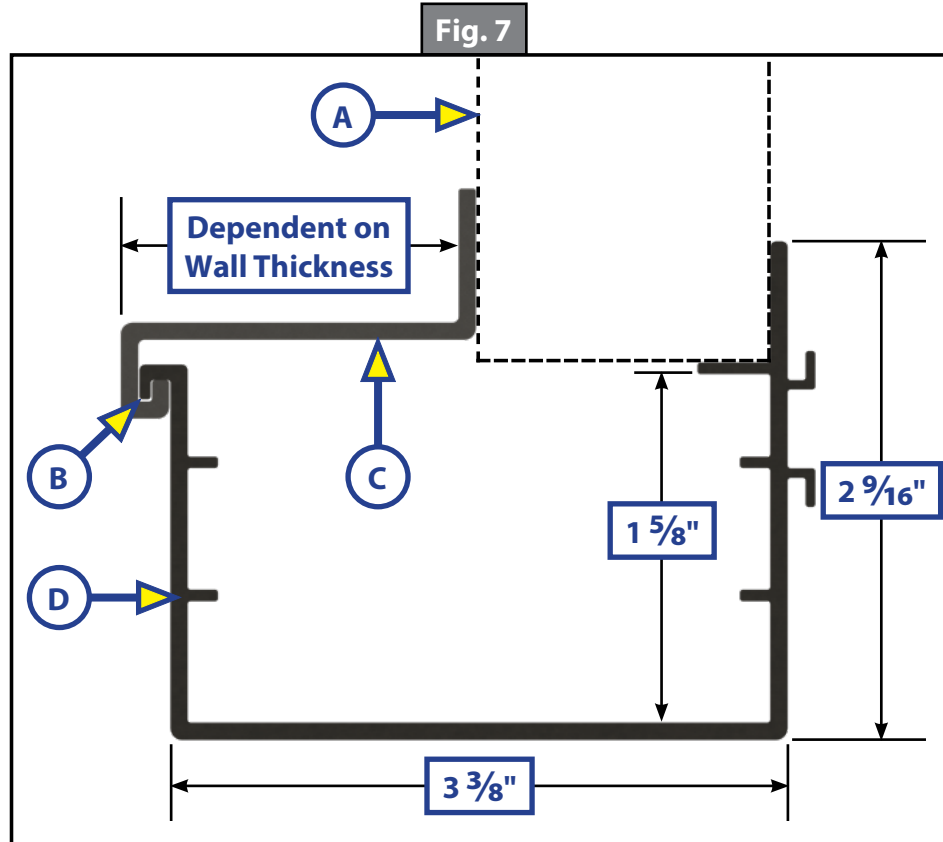
Prior to Installation

Resources Required

- Cordless or electric drill or screw gun
- Staple gun
- Rivet gun
- Adjustable wrench
- #10 x 1" self-tapping flat head screws (laminated builds)
- #10 x 1" wood screws (stick and tin builds)
- #10 x 1 self-tapping button head screws
- #12 X 1 self-tapping button head screws
- Putty tape
- Closed cell foam tape (if necessary)
- Silicone seal

Measurements For Wall Cutout

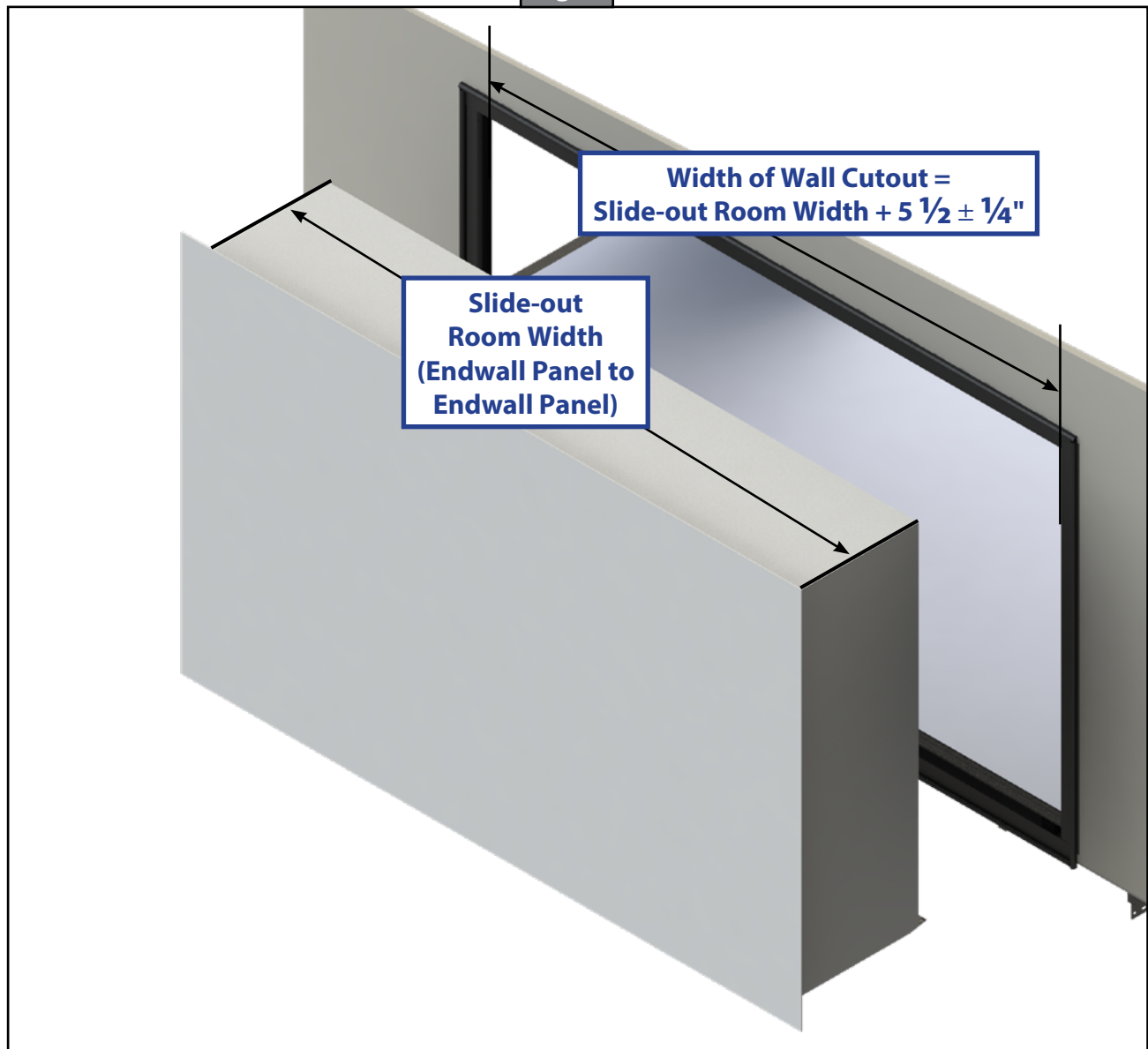
1. The F.A.S.T. Track Slide-out column (Fig. 7D) is $3 \frac{3}{8}$ " in depth with all protrusions. The exterior width of the column is $2 \frac{9}{16}$ " and the interior width is $1 \frac{5}{8}$ ".
2. The size of the F.A.S.T. Track Slide-out interior column clamp (Fig. 7C) is dependent on the thickness of the exterior wall (Fig. 7A) of the unit in which the system is being installed. The clamp can be used on walls with the following thicknesses: $1 \frac{3}{8}$ ", $1 \frac{1}{2}$ ", $1 \frac{3}{4}$ " and 2".
3. There is a $\frac{1}{4}$ " lip on both the F.A.S.T. Track Slide-out column (Fig. 7D) and interior column clamp (Fig. 7C). These sections should interlock (Fig. 7B) with each other when installed, providing a secure clamping surface, resistant to torque twist when the F.A.S.T. Track Slide-out motor is operating.



4. The width of the rough wall cutout **MUST** be $5\frac{1}{2}" \pm \frac{1}{4}"$ larger than the width of the slide-out room (Fig. 8).

NOTE: Do **NOT** begin the installation process if the wall cutout is not $5\frac{1}{2}" \pm \frac{1}{4}"$ larger than the width of the slide-out room that is being installed (Fig. 8).

Fig. 8

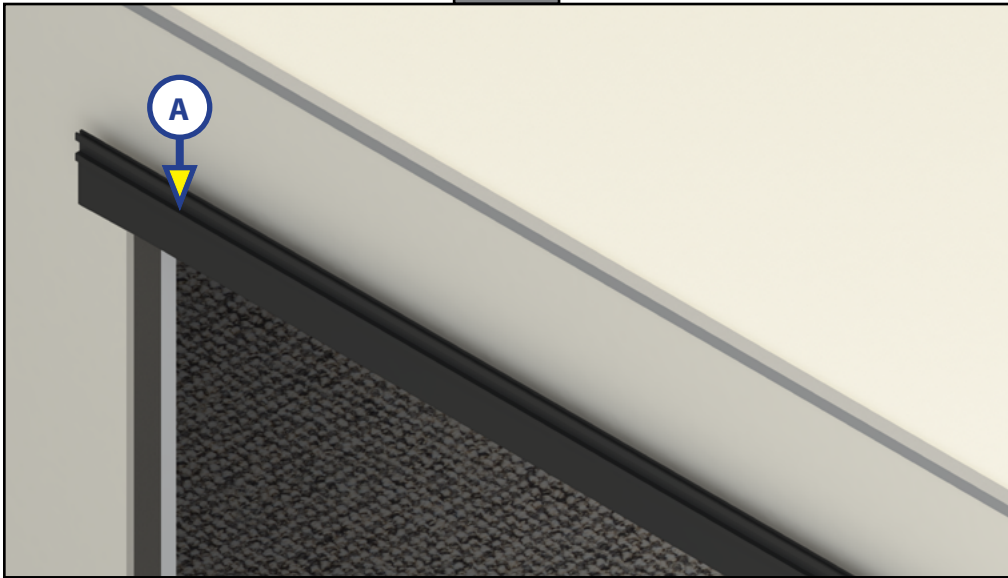


Installation

Upper Exterior Wipe Seal

1. Prepare upper outer wall surface using adhesion promoter or a 50/50 alcohol-to-water mix to clean and prepare area for complete adhesion of sealant.
2. Remove the liner from the adhesive tape on the backside of the upper wipe seal and press firmly into place along the top exterior of the wall cutout.
3. Secure the upper wipe seal (Fig. 9A) to the top exterior of the wall cutout according to manufacturer's specifications.

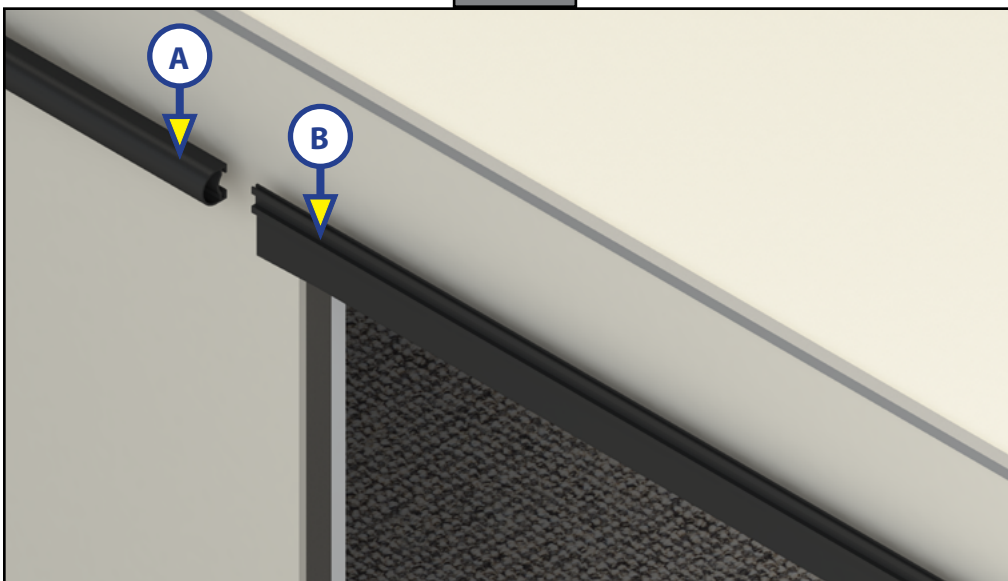
Fig. 9



4. Thread the bulb seal (Fig. 10A) along the upper wipe seal track (Fig. 10B).

NOTE: DO NOT install the upper interior wipe seal at this time.

Fig. 10



Floor Pan and Drip Pans

1. Using a silicone sealant, affix drip cups into place (Fig. 11A) on the floor between the recessed area and the wall of the trailer.
2. Place the two-piece steel pan onto the prepared floor of the opening that is resting on the outriggers.
3. Attach the steel pan to the side of the cutout with two #12 screws at each end bracket (Fig. 12A) and one screw into both pieces to secure to the floor.

Fig. 11

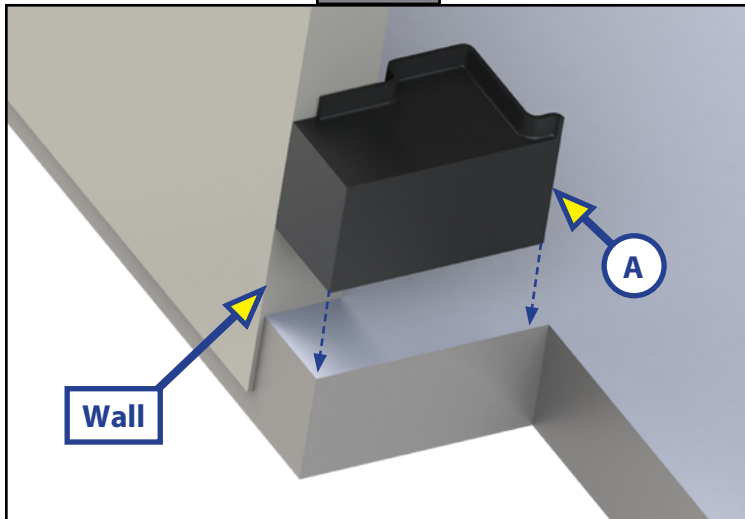
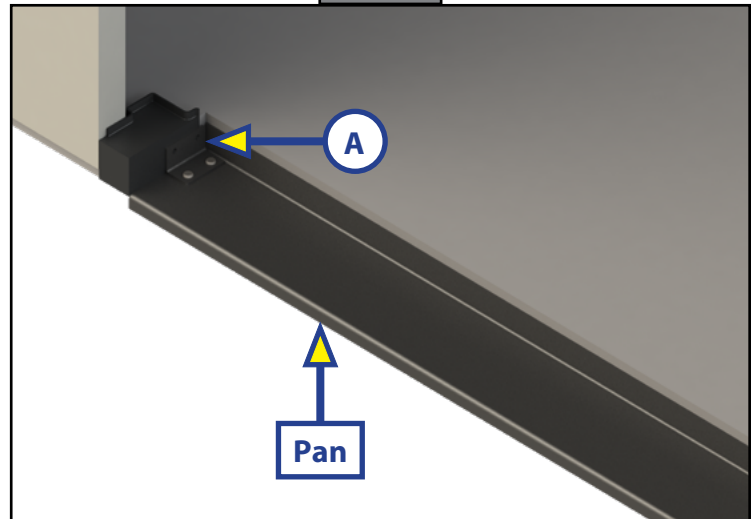


Fig. 12



4. Add the wear bar (Fig. 13A) by pushing it down over the back edge of the steel pan until the edge fits into the channel on the underside of the wear bar. Secure to the floor through the rear channel (Fig. 13B) with #12 screws at the ends, then every 12".
5. Slide high-density foam blocks (Fig. 14A) under the wear bar in both corners of the steel pan.

Fig. 13

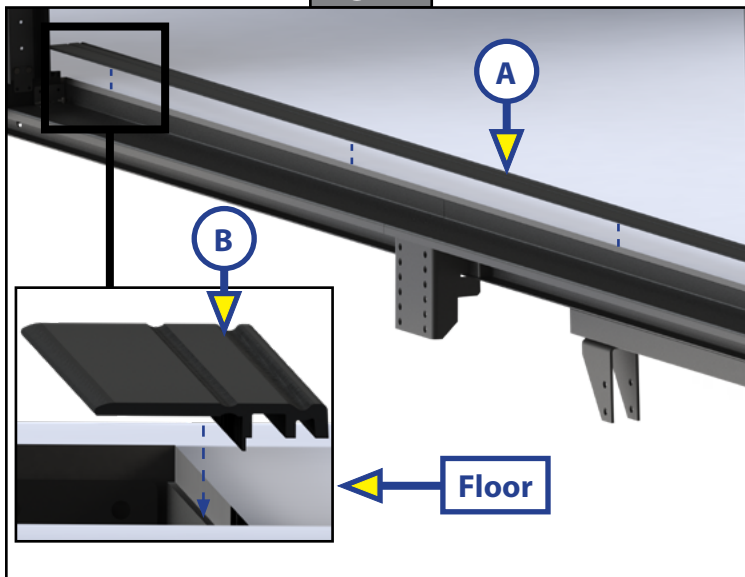
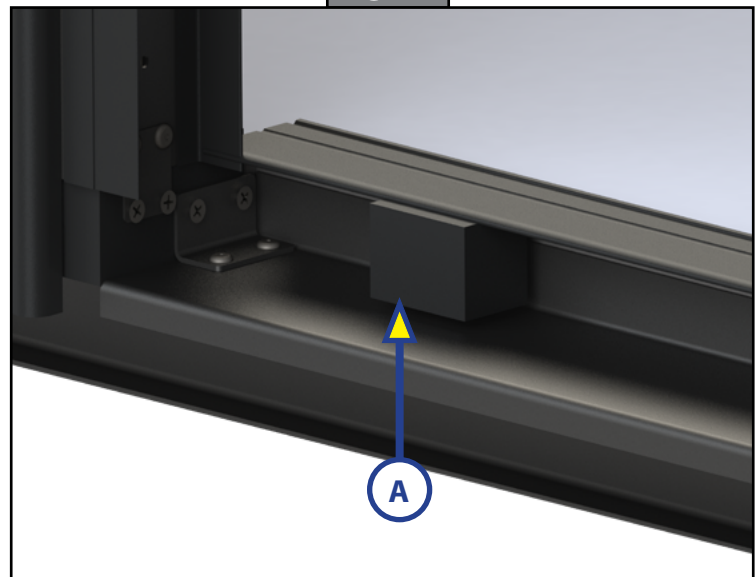


Fig. 14



Columns

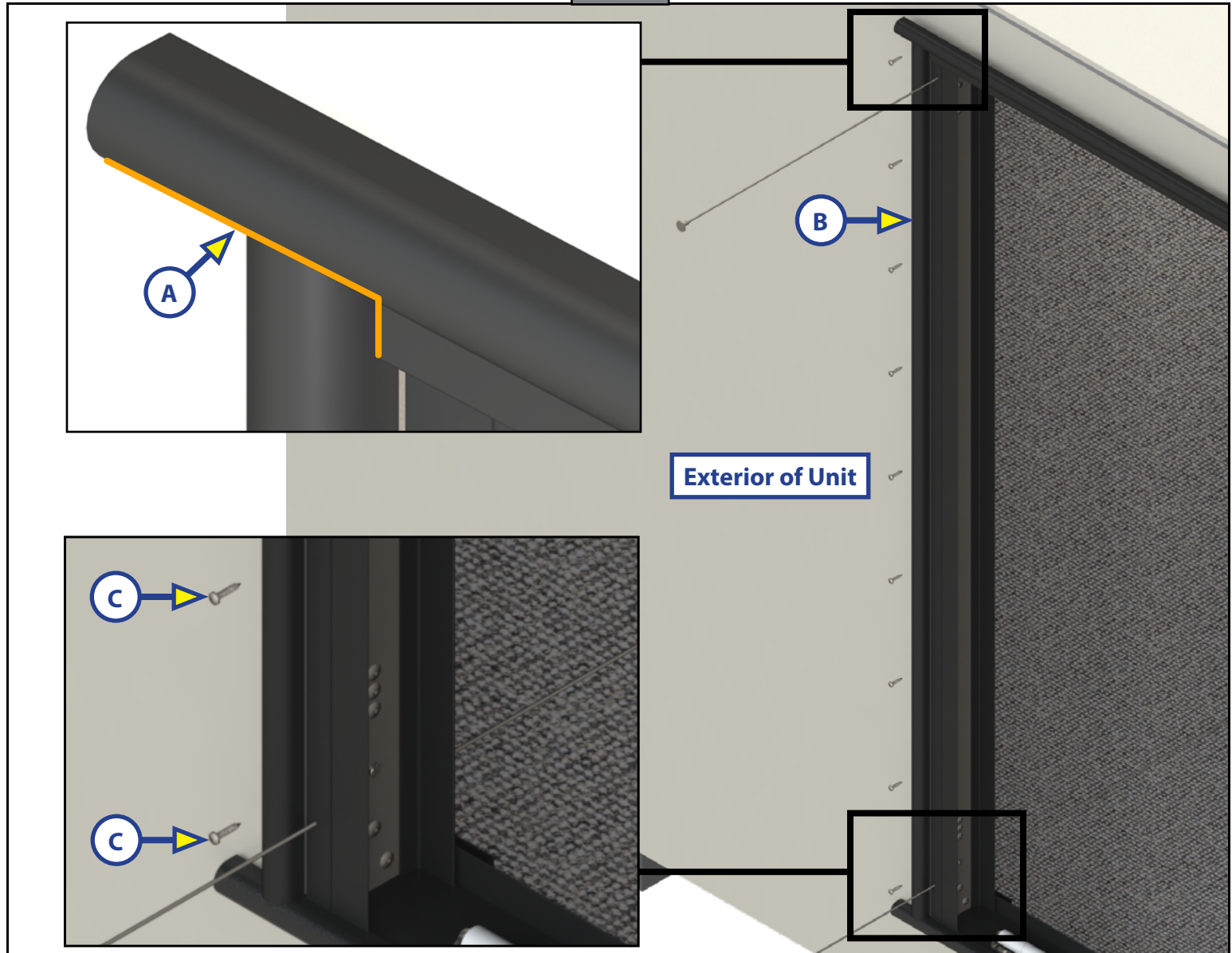
For laminate builds, LCI requires the use of #10 x 1" self-tapping screws for securing the F.A.S.T. Track Slide-out column to the unit.

For stick and tin builds, LCI requires the use of #10 x 1" wood screws for securing the F.A.S.T. Track Slide-out column to the unit.

For units with rolled aluminum siding, LCI requires the use of closed cell foam tape instead of putty tape when lining the inner lip of the slide-out column.

1. Notch both ends of the upper exterior wipe seal (Fig. 15A - orange lines) as needed to allow for proper seating of the slide-out column and be sure the seal is on the outside of the slide-out column.
2. Remove the liner from the putty tape or closed cell foam tape.
3. With the motor at the top of the column and located on the interior of the unit, place the lower portion of the F.A.S.T. Track Slide-out column into the wall cutout, resting on top of the previously installed drip pan and lower wipe seal (Fig. 15B).
4. Working from the floor of the unit up to the ceiling, apply gradual pressure to adhere the column to the exterior wall, making sure that the column seats properly into the wall cutout (Fig. 15B).
5. Holding the column in place, secure the column to the exterior of the unit using #10 x 1" screws (Fig. 15C) through the pre-drilled holes in the slide-out column.

Fig. 15



Upper Interior Wipe Seal

In order to install the upper interior wipe seal, a wood nailer **MUST** first be installed to the upper interior edge of the wall cutout. The upper sill must be built out so that the edge of the wood nailer is flush with the edge of the interior wall of the column. The dimensions of the wood nailer will be dependent on the wall thickness.

1. With the F.A.S.T. Track Slide-out column secured in place, measure the interior of the upper side to determine the dimensions needed for the wood nailer.
2. Install the wood nailer (Fig. 16A) to the interior of the upper sill along the entire length of the wall cutout.
3. Prepare the upper interior wall surface using adhesion promoter or a 50/50 alcohol-to-water mix to clean and prepare area (Fig. 17 - green lines) for complete adhesion of sealant.

NOTE: Green lines indicate a designated area.

4. Remove the liner from the adhesive tape on the backside of the upper interior wipe seal (Fig. 17B) and press firmly into place along wood nailer (Fig. 17A).

NOTE: Notch both ends of the upper interior wipe seal as needed and make sure the seal is on the outside of the slide-out column (Fig. 17).

5. Secure the upper interior wipe seal to the unit according to manufacturer's specifications.
6. Thread the optional bulb seal (Fig. 18A) along the upper interior wipe seal track on the interior of the unit.

NOTE: The bulb seal is a non-standard component with this system.

Fig. 16

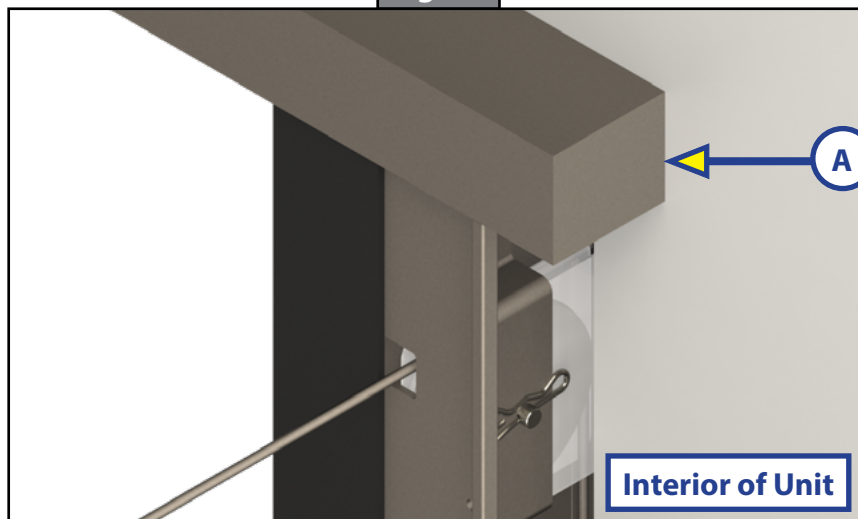


Fig. 17

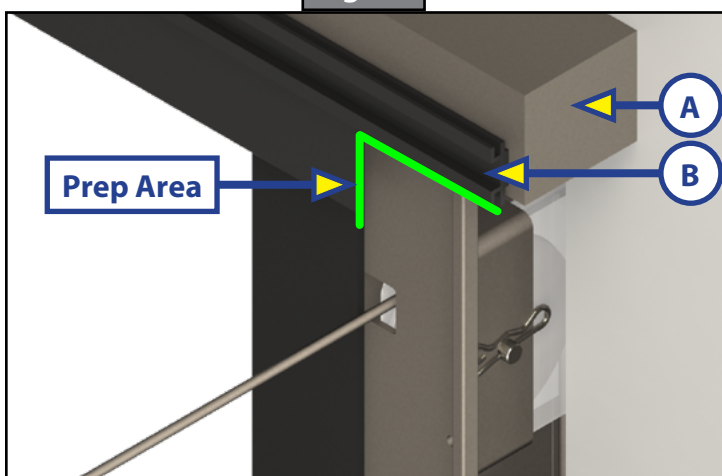
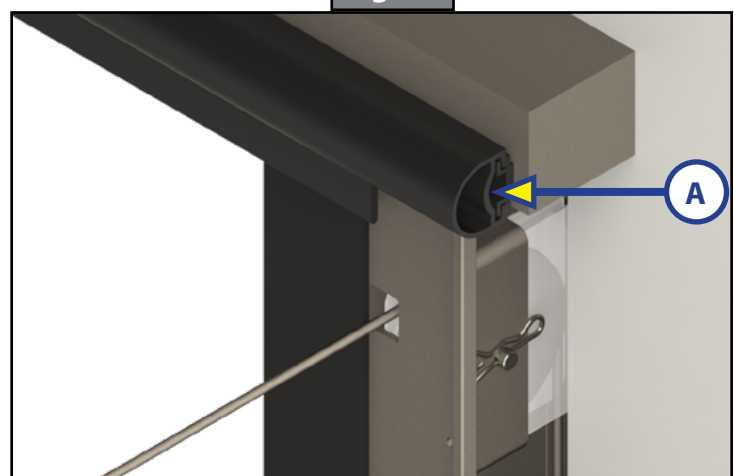


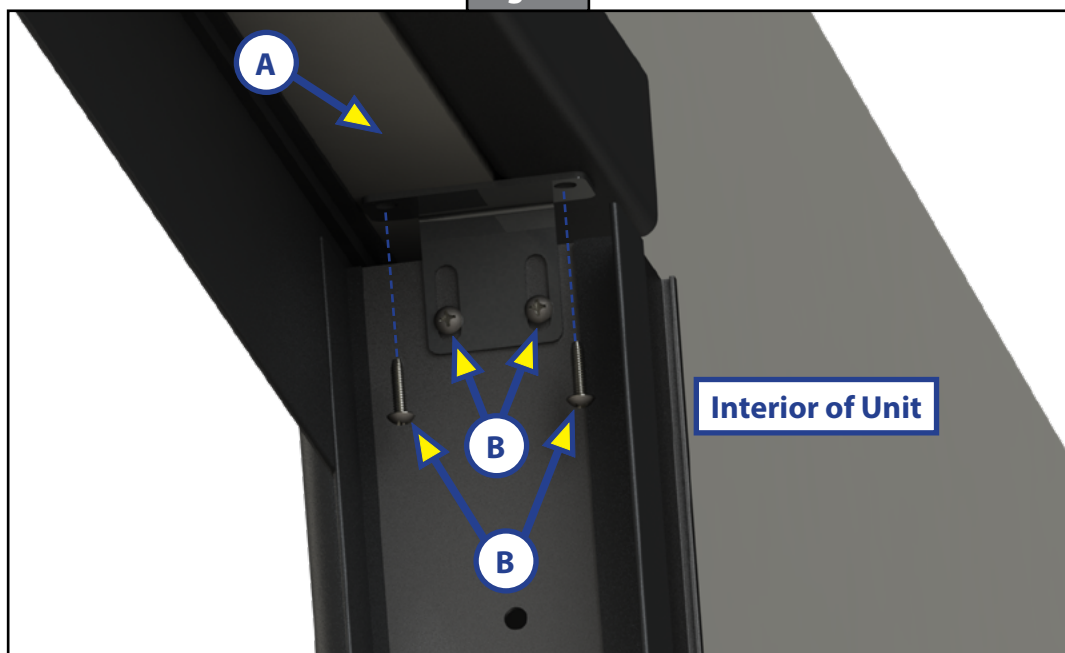
Fig. 18



Anchor Tabs

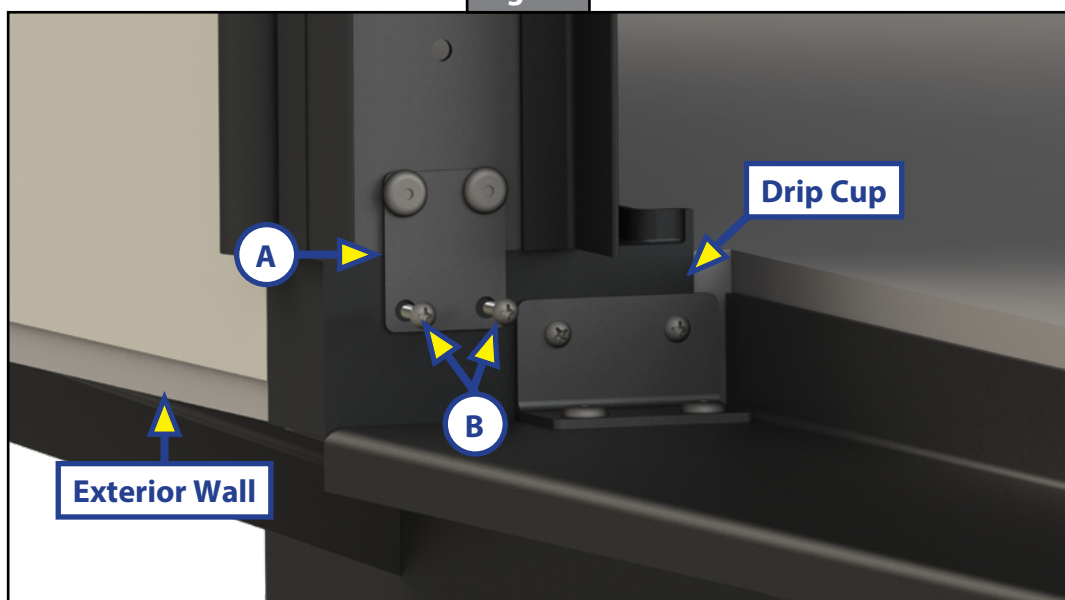
1. Attach the anchor tab (Fig. 19A) to the upper end of the F.A.S.T. Track Slide-out column inside the opening with four #10 x 1" wood screws (Fig. 19B).

Fig. 19



2. Locate the anchor tab (Fig. 20A) at the lower end of the F.A.S.T. Track Slide-out column. Secure to the wall, through the drip cup, with two #10 x 1" wood screws (Fig. 20B).

Fig. 20



Interior Column Clamps

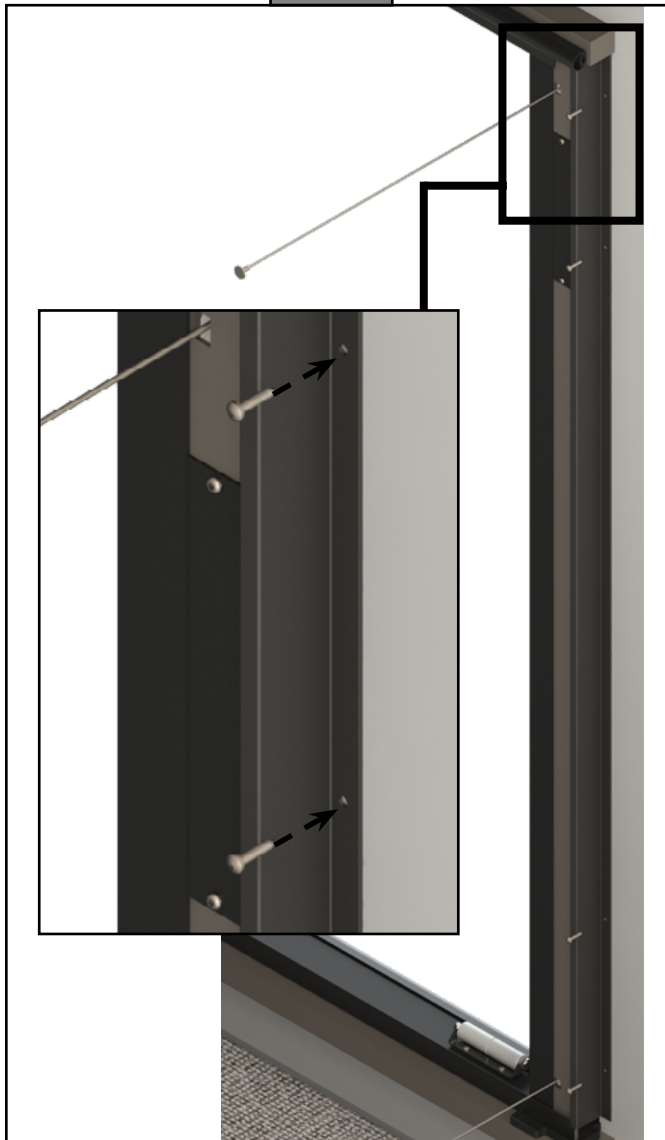
NOTE: The F.A.S.T. Track Slide-out column clamps are available in varying widths, based on the width of the unit's exterior wall thickness.

For laminate builds, LCI requires the use of #10 x 1" self-tapping screws for securing the F.A.S.T. Track Slide-out column to the unit.

For stick and tin builds, LCI requires the use of #10 x 1" wood screws for securing the F.A.S.T. Track Slide-out column to the unit.

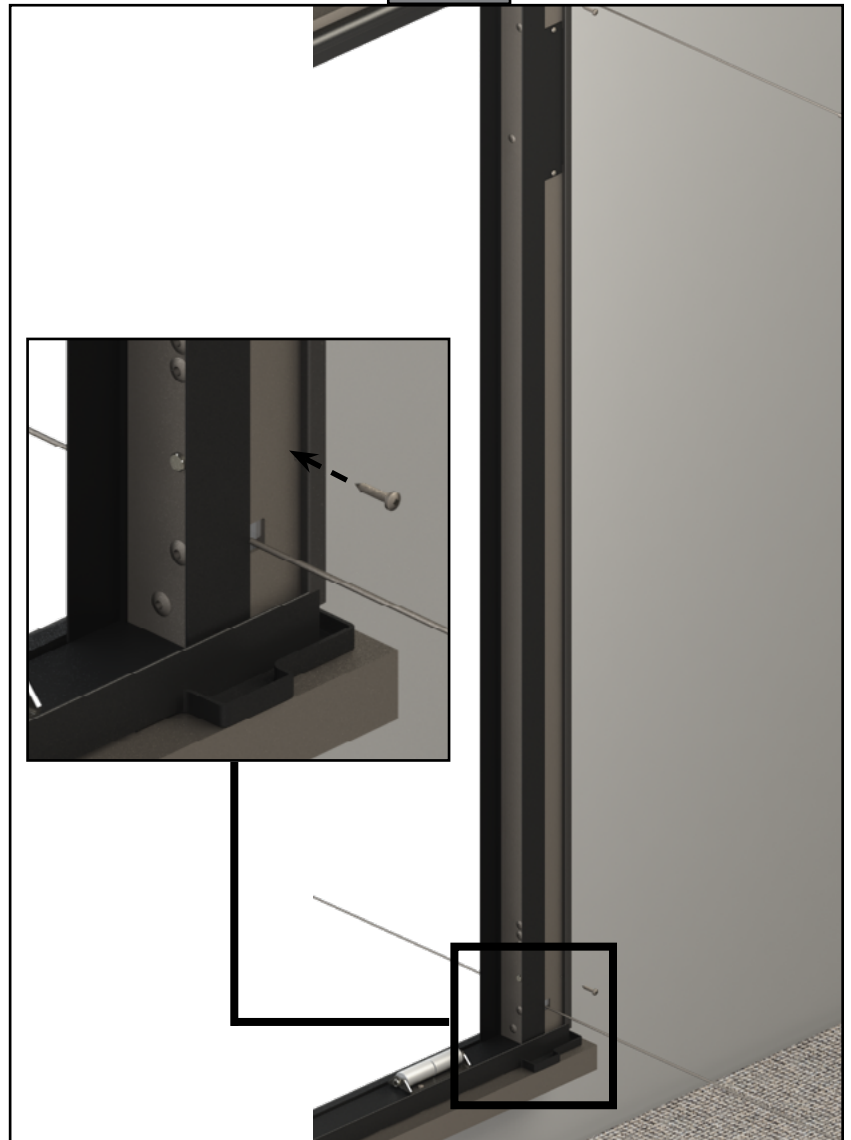
1. Connect the wiring harnesses to the motors.
2. Working from the inside of the unit, place the column clamp in the corresponding channel on the interior edge of the F.A.S.T. Track Slide-out column. For proper functioning, ensure a uniform seat throughout the length of the clamp.
3. Holding the column clamp in place, secure the clamp to the interior wall using #10 x 1" screws (Fig. 21). Begin with securing one at the top and one on the bottom of the column clamp, and then securing the midsection. Holes are pre-drilled.
4. Once secure, apply two #10 x 1" self-tapping screws to the seam of the F.A.S.T. Track Slide-out column and the column clamp (Fig. 22), one located at the top and one located at the bottom of the F.A.S.T. Track Slide-out column. Holes are pre-drilled.

Fig. 21



Interior of Unit

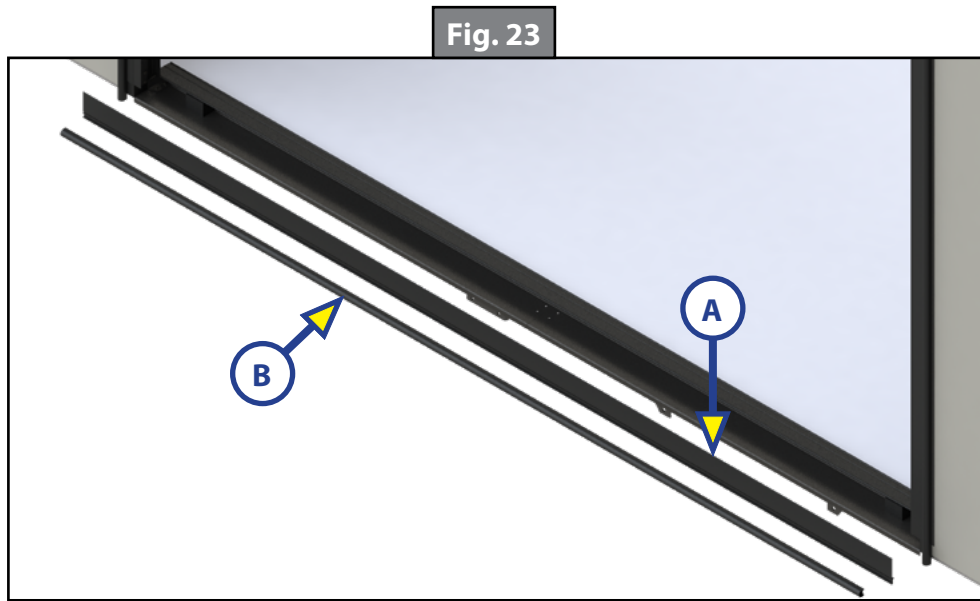
Fig. 22



Interior of Unit

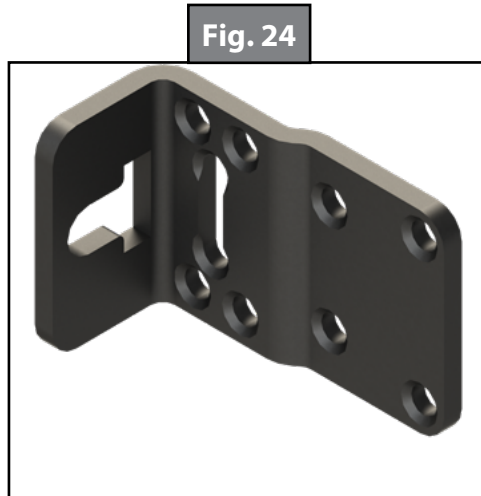
Front Wipe Seal

1. Cut to fit then, peel and stick the front wipe seal to the front of the pan (Fig. 23A). Then screw to the pan every 12" with a self-tapping #10 screw, at least 1" minimum. This seal goes in front of the side seals.
2. Cut to fit the bulb seal (Fig. 23B) and then slide it onto the front of the wipe seal.



Exterior Anchor Brackets

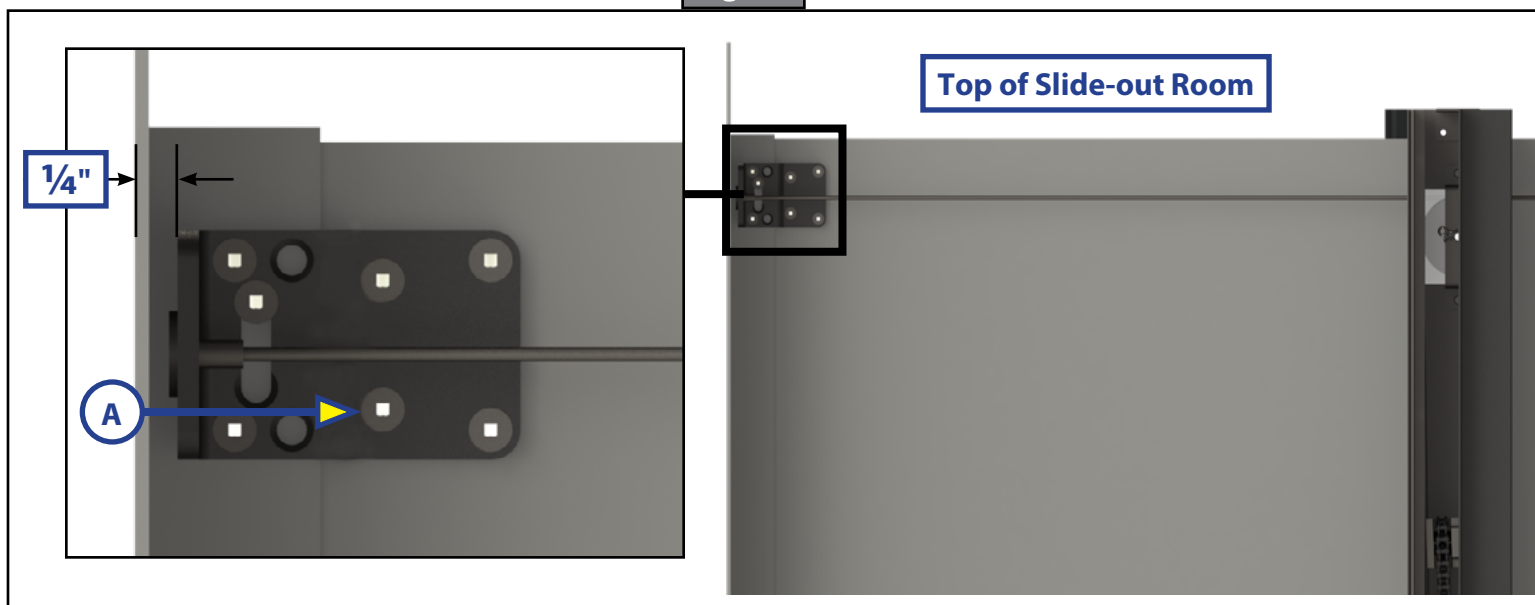
Laminate builds and stick and tin builds will use the same type of exterior anchor brackets (Fig. 24). Additionally, the types of screws used for installation will differ. For laminate builds, Lippert requires the use of #10 self-tapping flat head screws and #10 flat head wood screws for stick and tin builds.



1. Starting at the top exterior of the slide-out room, thread the exposed cable anchor and cable through the slot in the anchor bracket.

2. Place the bracket on the slide-out room T-molding, $\frac{1}{4}$ " from the outer edge (Fig. 25).
3. Secure the bracket with a minimum of six #10 screws (Fig. 25A).
4. Repeat the steps 1-3 for the top exterior anchor bracket at the other end of the slide-out room and then repeat steps 1-3 for the two bottom exterior anchor brackets.

Fig. 25



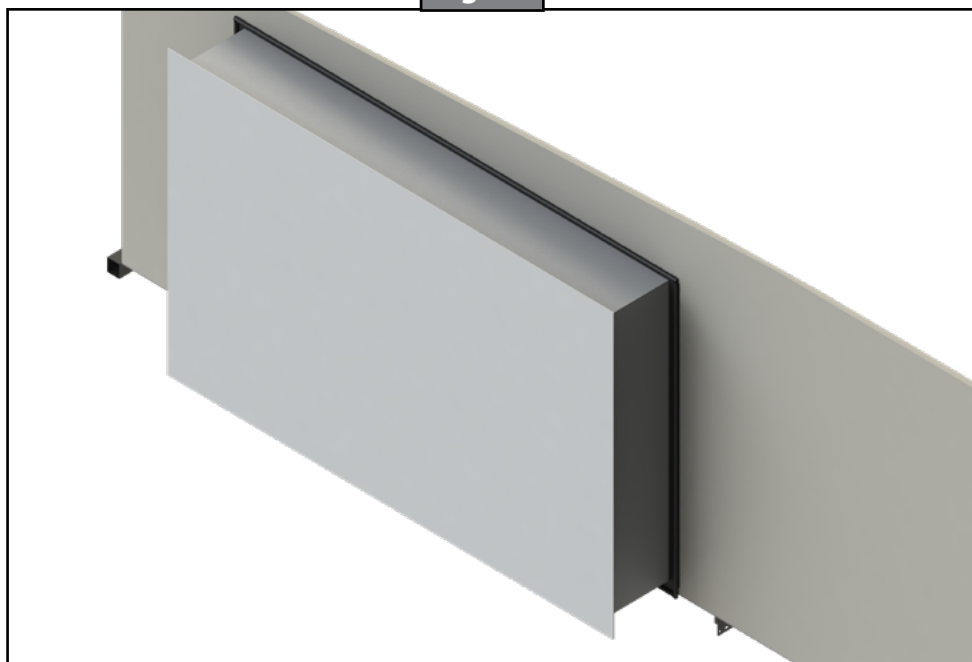
NOTE: Images illustrate an exterior bracket (Fig. 25) being installed on a laminate build with #10 self-tapping flat head screws. The length of the screw is dependent on the backer construction.

Slide-Out Room

Prior to installation of the slide-out room, it is important to make sure that there are no protrusions from the bottom of the slide-out room that will interfere with the slide-out rollers. This will ensure smooth travel of the slide-out room and an easier installation process.

1. Insert the completed slide-out room into the wall cutout.
2. Center the slide-out room inside the wall opening, so that the slide-out is halfway extended and halfway retracted (Fig. 26).

Fig. 26



Interior Anchor Bracket

Depending on wall construction, the types of screws used for installation will differ. For laminate builds, LCI requires the use of #10 self-tapping flat head screws. For stick and tin builds, LCI requires the use of #10 flat head wood screws.

When installing the interior anchor brackets (Fig. 27), tension **MUST** be placed on the cables during installation. This is accomplished by using an adjustable wrench for leverage (Fig. 28).

1. Starting at the top interior of the slide-out room, thread the exposed cable anchor and cable through the slot in the interior anchor bracket.
2. Place the bracket at an angle approximately $\frac{1}{4}$ " in from the edge of the slide-out room (Fig. 28A). Keep in mind that once the bracket is pivoted, the cable (Fig. 28B) must be perpendicular to the slide-out column (Fig. 28C) and in line with the cable exit hole (Fig. 28D).
3. Secure with one #10 screw in the upper corner of the interior cable slide anchor bracket.
4. Using an adjustable wrench for leverage, pivot the anchor bracket away from the slide-out room in order to place tension on the cable (Fig. 28). Secure with another #10 x 1" screw in the lower corner.
5. Secure with more #10 screws in opposite corners, for a total of at least four per bracket.

NOTE: For proper installation, Lippert requires a minimum of six screws to be used with the bracket in figure 27.

6. Repeat the steps 1-5 for the top interior anchor bracket at the other end of the slide-out room and repeat steps 1-5 for the two bottom interior brackets.

Fig. 27

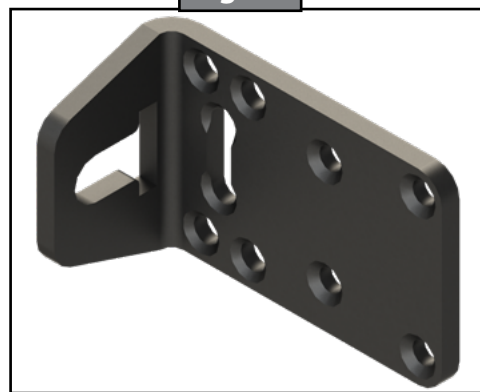
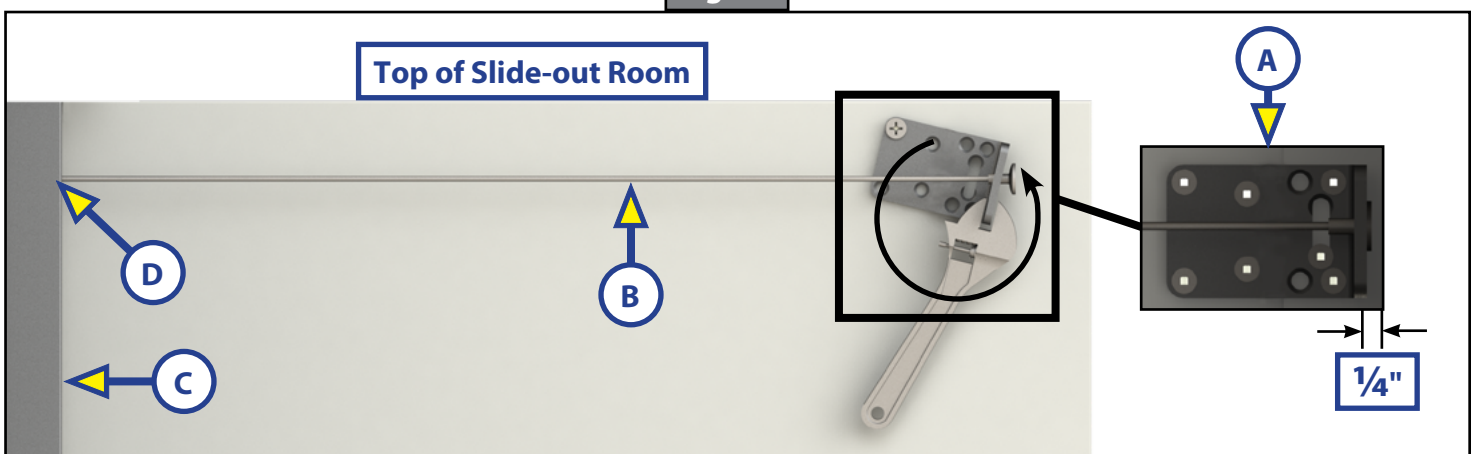


Fig. 28



NOTE: Image illustrates an interior bracket (Fig. 28) being installed on a laminate build with #10 self-tapping flat head screws. The length of the screw is dependent on the backer construction.

Controller

1. Mount the controller (Fig. 29A) in a clean and dry, weather-tight location that will keep it from being damaged, but is easily accessible for service.

NOTE: The controller is **NOT** waterproof.

NOTE: The controller (Fig. 29A) **MUST** be mounted with the face visible, allowing for indicator lights (Fig. 29E) accessibility for resetting and troubleshooting purposes.

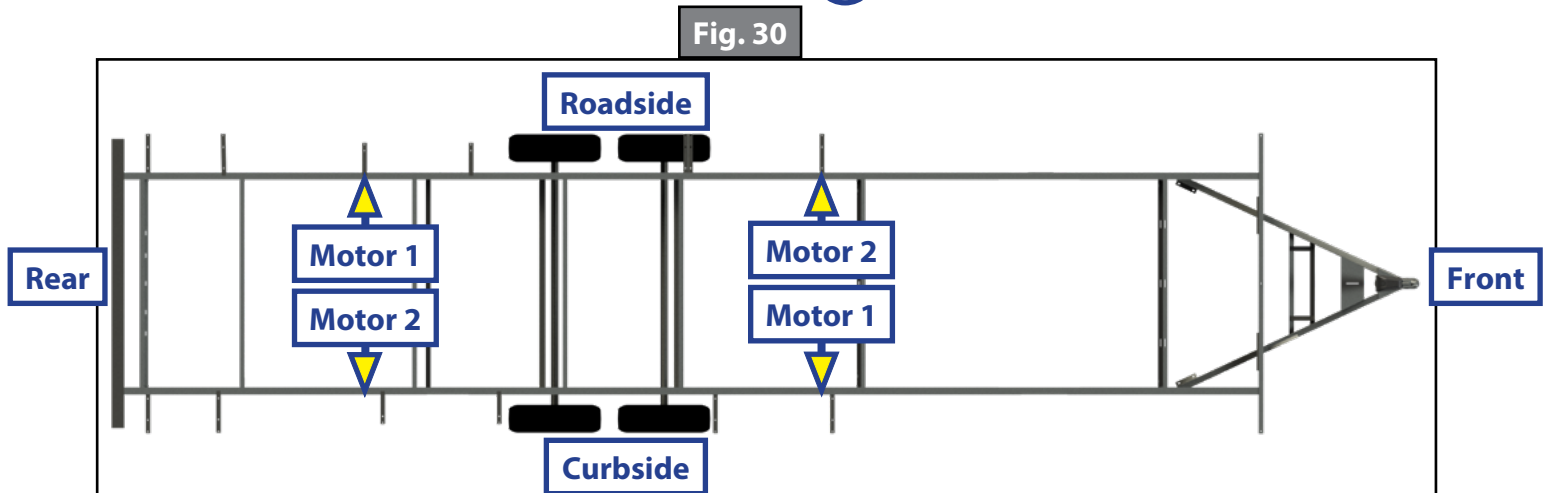
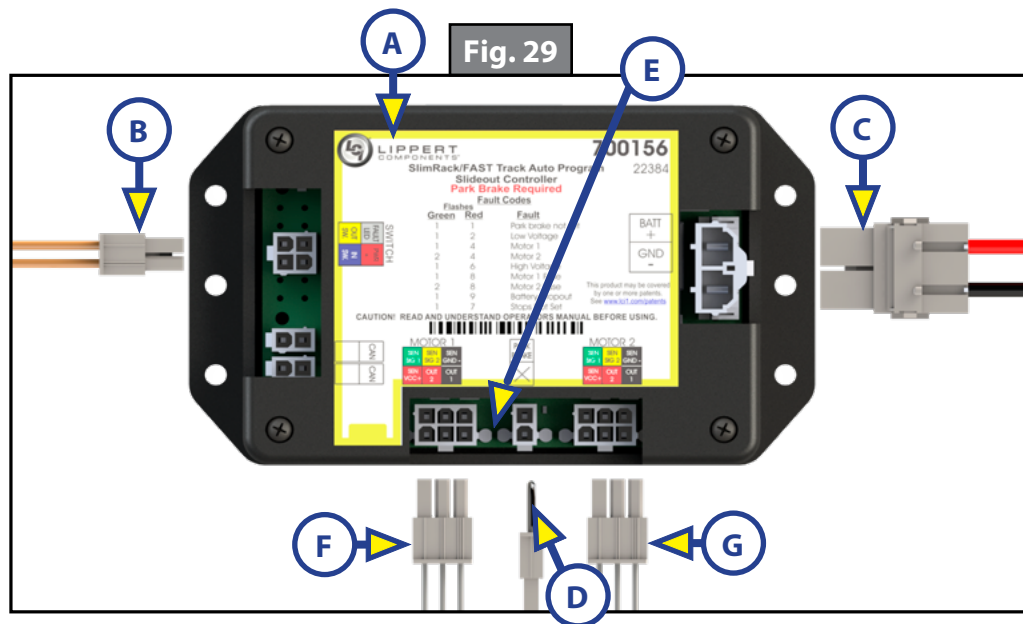
2. Determine a location to mount the OEM-supplied switch.
3. Route and attach the switch harness (Fig. 29B) from the controller to where the switch will be mounted.
4. Mount the switch according to OEM specifications.
5. Route and attach the motor 1 harness (Fig. 29F) and motor 2 harness (Fig. 29G) from the controller to the corresponding slide-out motors.

NOTE: When identifying motor 1 and motor 2, refer to figure 30.

6. Route and attach the park brake input harness (Fig. 29D) from controller to the park brake signal source, if applicable.

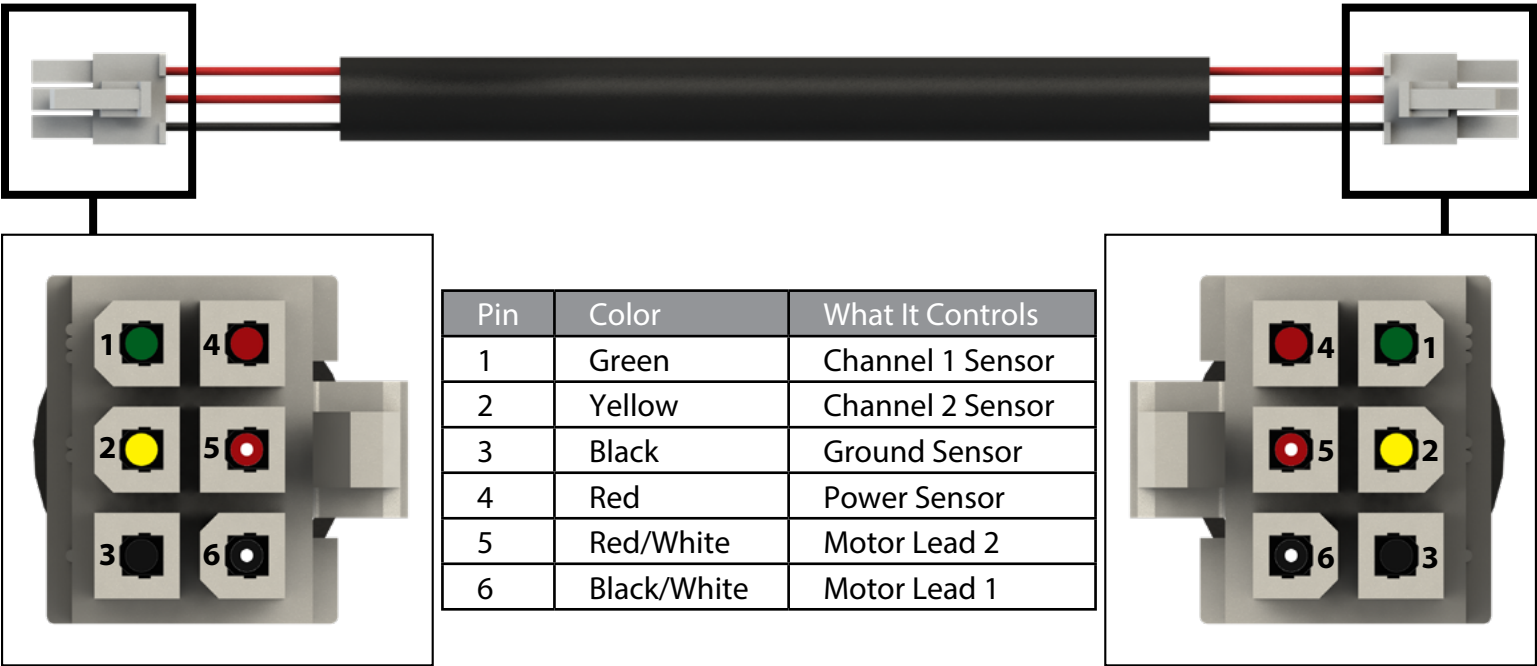
NOTE: If installing on a towable unit and using control 697096, park brake switch harness and signal are not required.

7. Route and attach the proper gauge wire (Fig. 29C) from the controller to the 12V DC battery. System must be wired using 10 AWG minimum. Power to the slide-out controller is to be protected by the OEM-supplied 30 amp resettable breaker.

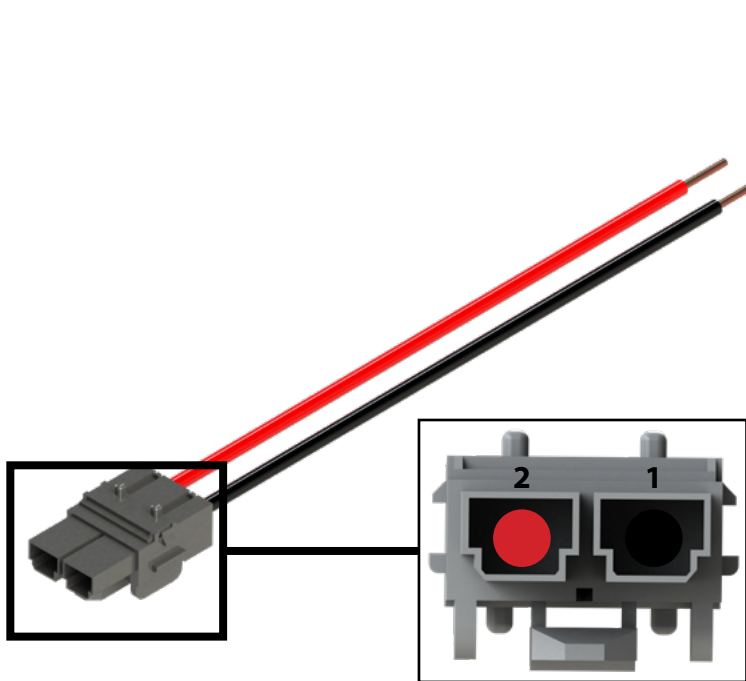


Wiring Harness Definitions

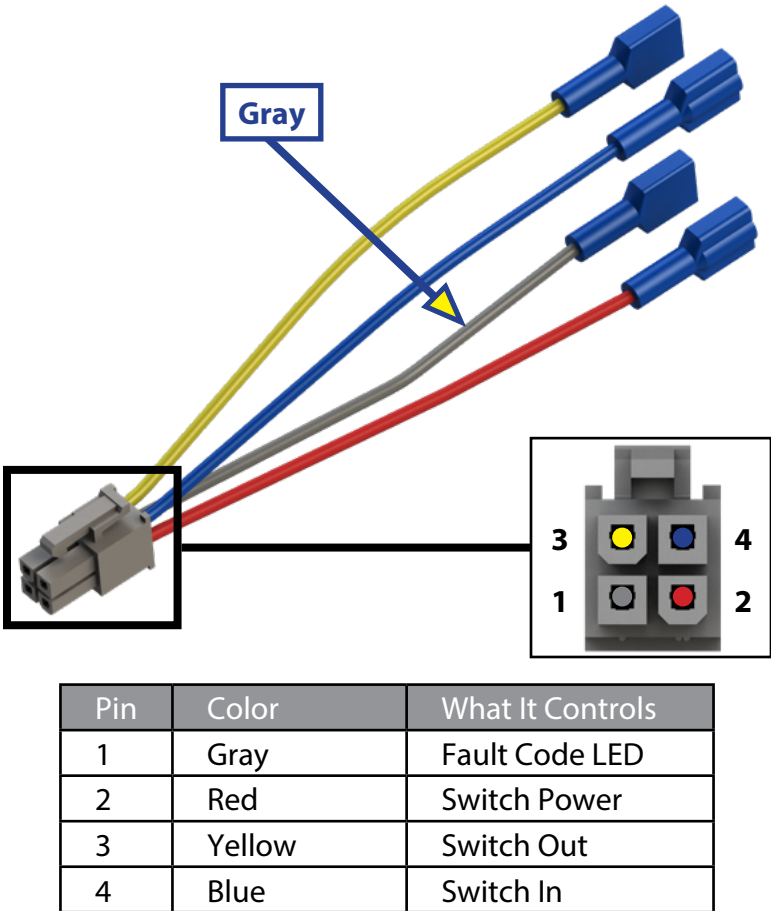
Motor Harness



Power Harness



Switch Harness



NOTE: If the slide-out operation rocker switch is not supplied by Lippert the gray wire on the switch harness is not utilized.

Programming

When retracting or extending, the switch will need to be depressed and held for two seconds after the room stops moving. Failure to do so will cause the stops not to set.

WARNING

Always make sure that the slide-out room path is clear of people and objects before and during operation of the slide-out. Always keep away from the gear racks when the room is being operated.

CAUTION

Moving parts can pinch, crush or cut. Keep clear and use caution.

Setting the Retract Stop Point

1. Press and hold the "IN" or "RET" button on the wall rocker switch.
2. Move the room to the fully retracted position. Press and hold the "IN" or "RET" button for two seconds after the room stops moving. Release the wall switch.
3. Visually inspect the room seal to make certain the room is fully retracted. If it is not, push and hold the "IN" or "RET" button until fully retracted. This procedure may need to be repeated until both sides of the slide-out are fully retracted.

Setting the Extend Stop Point

1. Press and hold the "OUT" or "EXT" button on the wall rocker switch.
2. Move the room to the fully extended position. Press and hold the "OUT" or "EXT" switch for two seconds after the room stops moving. Release the wall switch.
3. Visually inspect the room seal to make certain the room is fully extended. If it is not, push and hold the "OUT" or "EXT" button until fully extended. This procedure may need to be repeated until both sides of the slide-out are fully extended.

Prior to Operation

1. To optimize slide-out actuation, the unit **MUST** be parked on solid, level ground.
2. Inspect all connections at the controller and verify they are securely attached.
3. Verify there are no obstructions that could hinder normal movement of the slide-out room.
4. Make sure there is ample voltage being supplied to the slide-out controller.
5. Set the parking brake, if applicable.
6. The ignition of the unit **MUST** be turned off in order to operate the slide-out system, if applicable.

Operation

WARNING

Failure to act in accordance with the following may result in death, serious personal injury, severe product, unit or property damage.

WARNING

Always make sure that the slide-out room path is clear of people and objects before and during operation of the slide-out to avoid serious personal injury. Always keep away from the gear racks when the room is being operated.

Extending the Slide-Out Room

1. If equipped, remove the transit bars.
2. If equipped, turn "ON" the unit's on/off switch or key.
3. Press and hold the "OUT" or "EXT" button.

NOTE: There will be a slight delay before the slide-out room will begin to move. This is normal.

4. Release the button when the slide-out room is fully extended and stops moving.
5. If equipped, turn "OFF" the unit's on/off switch or key.

Retracting the Slide-Out Room

1. If equipped, turn "ON" the unit's on/off switch or key.
2. Press and hold the "IN" or "RET" button.

NOTE: There will be a slight delay before the slide-out room will begin to move. This is normal.

3. Release the button when the slide-out room is fully retracted and stops moving.
4. If equipped, turn "OFF" the unit's on/off switch or key.
5. If equipped, replace the transit bars.

Troubleshooting

Fault Codes

The controller has the ability to detect and display several faults within the slide-out system. When a fault is detected, the room movement may stop and two different LED lights on the controller will flash in a particular pattern indicating the proper action needed to clear the fault, such as;

1. When the Motor LED flashes GREEN 1 or 2 times, it indicates which motor is experiencing the associated fault, i.e. 1 GREEN flash indicates Motor 1 and 2 GREEN flashes indicates Motor 2.
2. When the Fault Code LED flashes RED a number of times, it indicates the determined fault. Refer to the Error Code Chart to best determine the cause of the fault.

NOTE: When motor movement is not detected by the control box in either direction during room actuation, the controller will automatically enter into "Emergency Jog" mode. When in Emergency Jog mode, the controller will jog both motors in the direction the switch is pressed, i.e. "IN" or "OUT." The switch may need to be pressed multiple times to fully retract or extend the slide-out room. Take the unit to an OEM-authorized dealer for service.

NOTE: The control box will return to normal mode after five minutes of inactivity or by cycling power to the control box.

Error Code Chart		
What Is Happening?	Why?	What Should Be Done?
1 Red Flash	Parking brake (if applicable) is not set.	Set parking brake (if applicable).
	Ground signal is lost at parking brake receptacle at control box.	Check for continuity to ground on wire plugged into parking brake receptacle at control box.
2 Red Flashes	Incoming voltage to control is below 12V DC. The room will not move if the voltage is 10.5V DC or below.	Start vehicle, generator, or make sure the unit is plugged into shore power. Check 2-pin power connector at the control box at BATT + and GND. Consult manufacturer of unit charging system for troubleshooting assistance.
4 Red Flashes	Bad wire connection.	Refer to Technical Information Sheets: Troubleshooting Control Box for SlimRack Systems 82-S0533 . If necessary, copy and paste or type the following path into a browser; https://www.lci1.com/slide-outs-/support-slimrack then look for the specified document among the listing.
	Bad motor.	
6 Red Flashes	Supply voltage to control box is 17V DC or greater.	Consult manufacturer of unit charging system for troubleshooting assistance.
7 Red Flashes	• Stops have not been set • Stops were cleared • Stops were improperly set	Stops need to be programmed according to the programming instructions in this document.
8 Red Flashes	Motor fuse concern.	Contact Lippert Representative.
9 Red Flashes	Battery dropped below 8.5V while extending or retracting slide.	Charge battery, start vehicle, generator, or make sure unit is plugged into shore power.

Manual Override

1. Remove the two screws along the seam of the column and the interior column clamp.
2. Remove the screws anchoring the interior column clamp to the wall.
3. Detach the interior column clamp from the column and set aside.
4. Remove the cover of the motor.
5. Remove the drive shaft of the motor from the drive sprocket shaft adapter.
6. Once disconnected, the cable pulley system is free to move manually and the slide-out room can now be retracted for safe travel.

Installation Checklist

1. Install control and run harnesses
2. Steel pan into floor cutout
3. Upper spacer on the interior of the wall
4. Header seal, pan, wear bar and drip cups
5. Place columns in opening, attach to outside of the unit
6. Anchor tabs, top and bottom
7. Interior clamps on each column
8. Connect motor harness
9. Exterior brackets
10. Insert room into opening
11. Attach cables to exterior brackets
12. Interior brackets (Note: these should be shifted up to the thickness of the room floor)
13. Run room/set stops



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