



F.A.S.T. TRACK[®] SLIDE-OUT OEM INSTALLATION MANUAL

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Introduction

The F.A.S.T. Track® Slide-out is intended 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

This manual provides general instructions. Many variables can change the circumstances of the instructions, i.e., the degree of difficulty, operation and ability of the individual performing the instructions. This manual cannot begin to plot out instructions for every possibility, but provides the general instructions, as necessary, for effectively interfacing with the device, product or system. Failure to correctly follow the provided instructions may result in death, serious personal injury, severe product and/or property damage.

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 gear racks 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

NOTE: 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 system.

Laminate Builds

For a laminate build where rollers are mounted to the floor, Lippert 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. For laminate builds where there is at least 6" of wall structure (Fig. 2) and rollers are mounted on the wall, only standard outrigger placement will apply.

Fig. 1

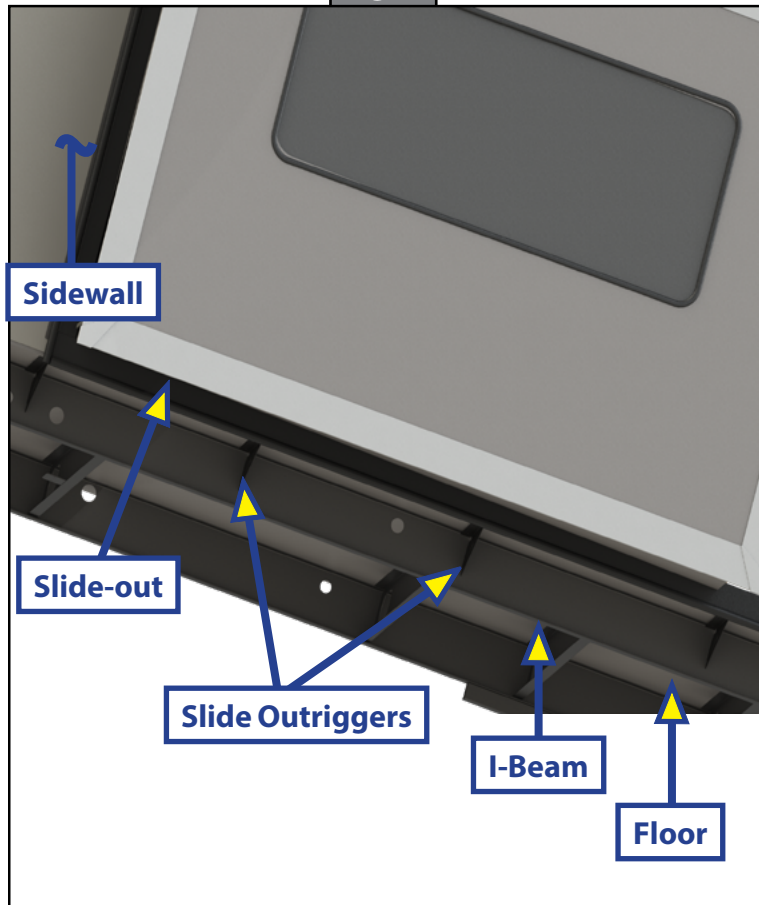
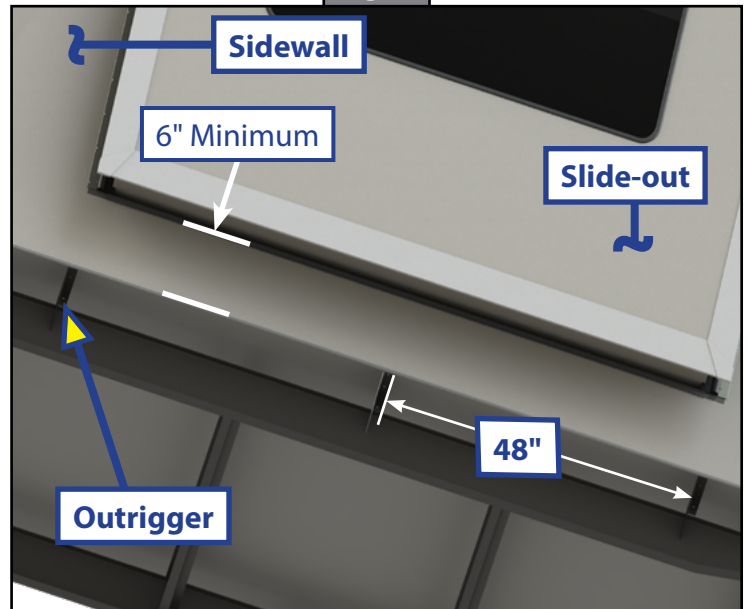


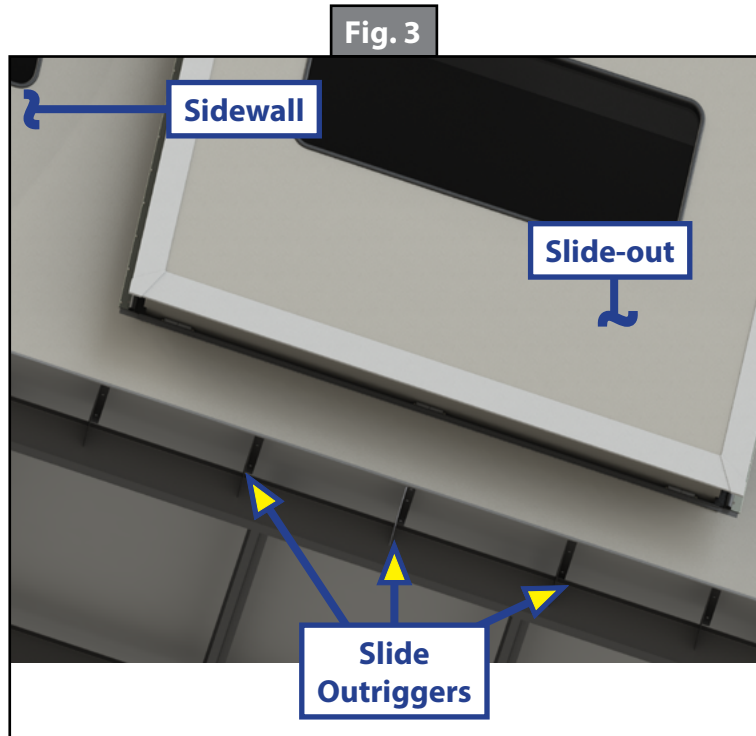
Fig. 2



Stick and Tin Builds

For all stick and tin builds (Fig. 3), 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.

NOTE: For stick and tin builds, Lippert recommends that the header and footer mirror each other in size, if mounting rollers on the sidewall. Reference your supplier's span table for header size and length.



Recommended Wall Construction or Equivalent

NOTE: 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. 4). 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.

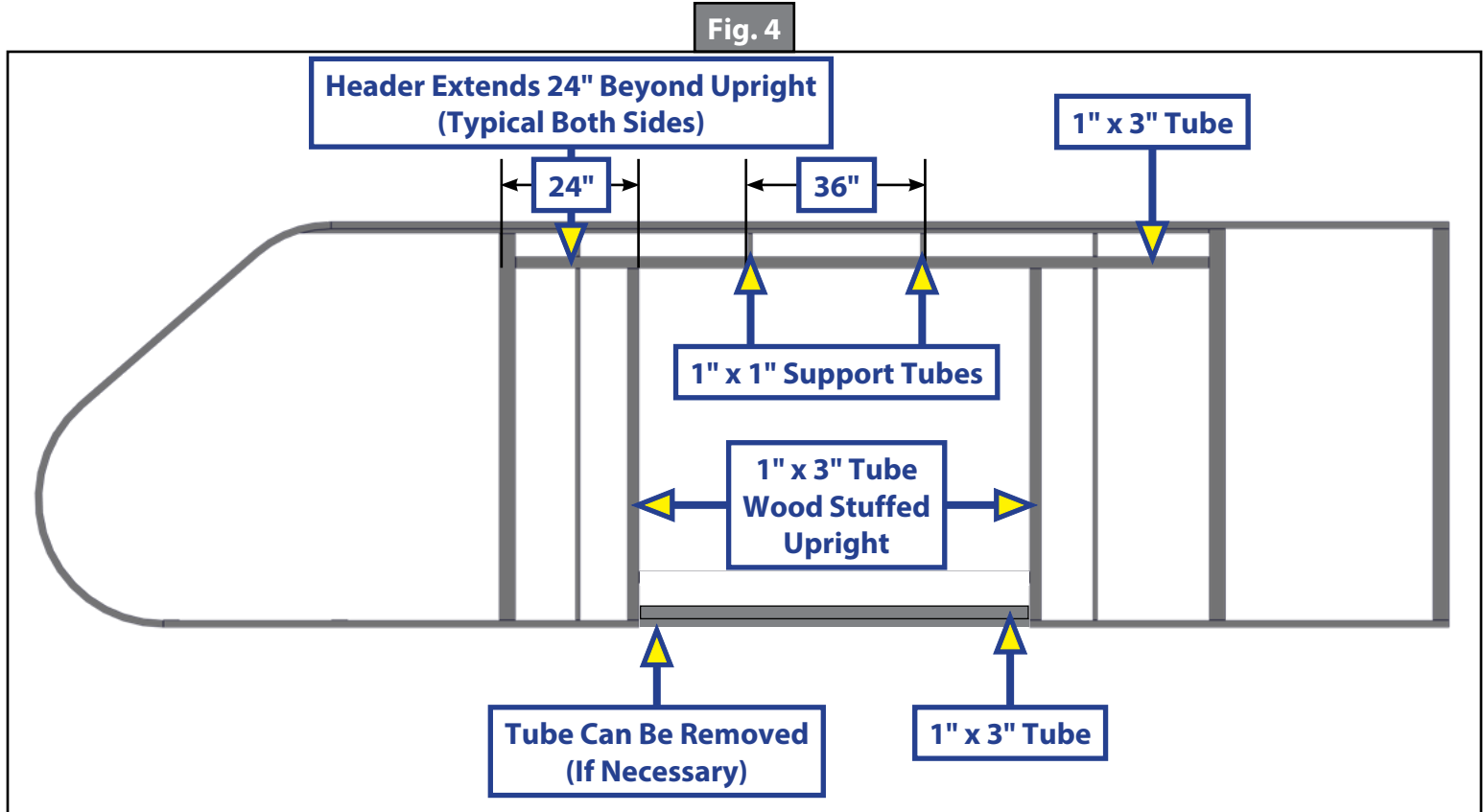
5th Wheel

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. 4) 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 the Top of the Slide-out Room

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. Any room that is more than 4' and up to under 8' needs to have one support centered on the room. Every room that is over 8' up to 12' needs to have two vertical supports evenly spaced over the top of the room. For example, a 9' opening would have a vertical support 36" in from each upright. For every 4' in room width, one more vertical support will be needed.

NOTE: These instructions are based off a 1" sidewall thickness. For example, a 1 1/2" x 3" tube may be used if walls are 1 1/2" thick.



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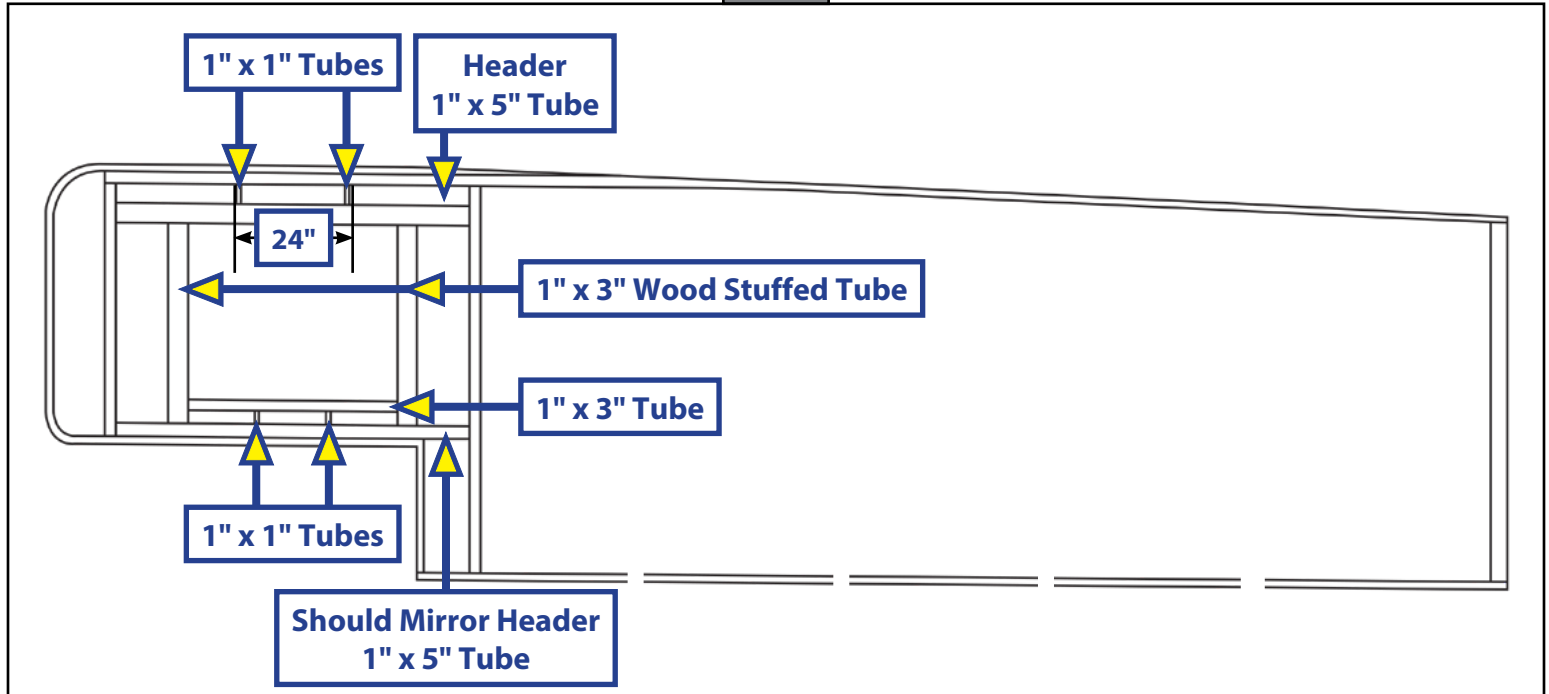
Slide-out Room Opening - Upper Deck

If a 5th Wheel has an upper deck slide opening, the bottom cross tube should mirror the header tube in length at a minimum. If additional height is needed, the manufacturer will need to add another cross tube that is 0.060" gauge minimum and add vertical supports for strength. The supports must be a minimum 1" x 1" aluminum tube and placed accordingly. This goes for both the top and bottom supports only in the upper deck area (Fig. 5).

1. Room is 5' and under, two evenly spaced vertical supports are needed.
2. Room is 5' to 7', three evenly spaced vertical supports are needed.
3. Room is 7' to 9', four evenly spaced vertical supports are needed, etc.

NOTE: Vertical supports need to be 0.040" gauge minimum.

Fig. 5

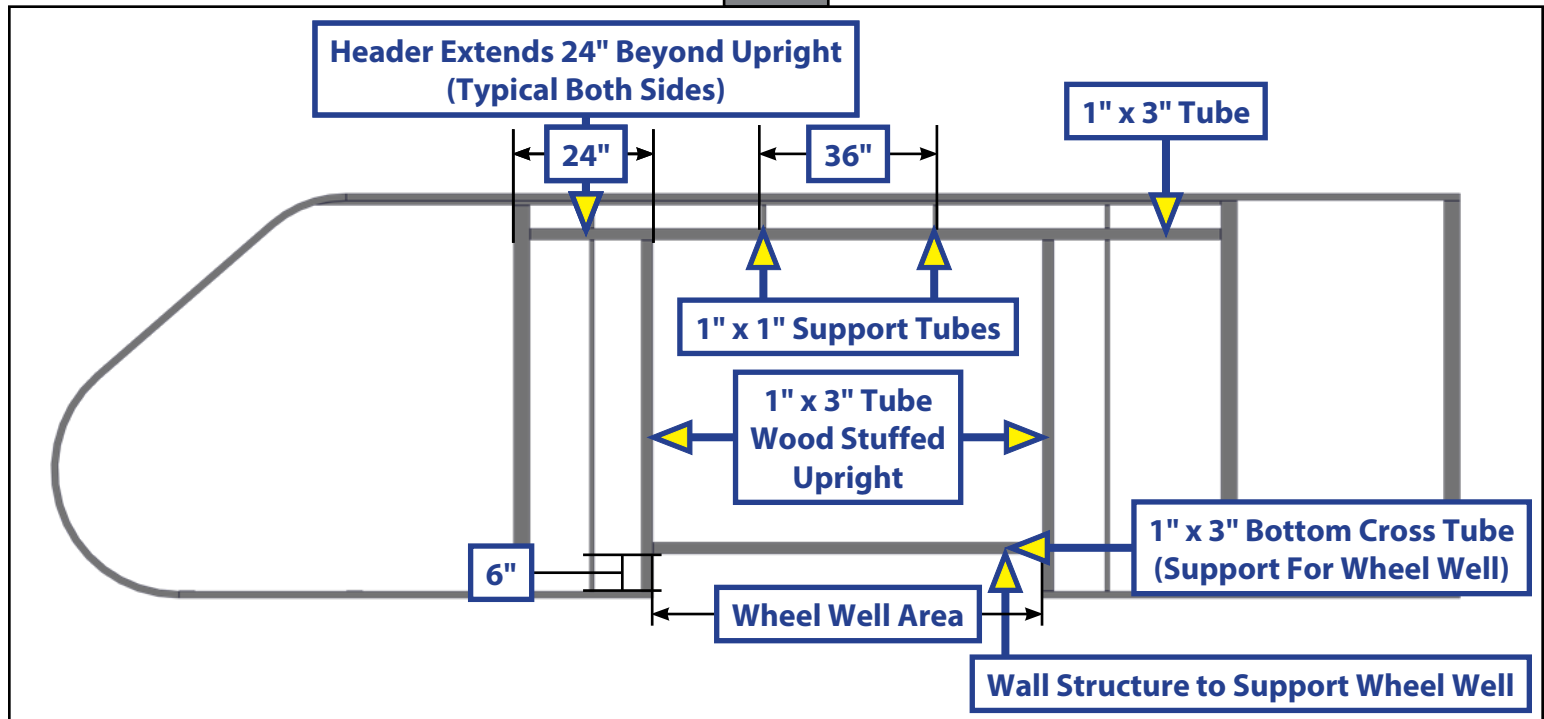


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Slide-out Room Opening - Bottom Section

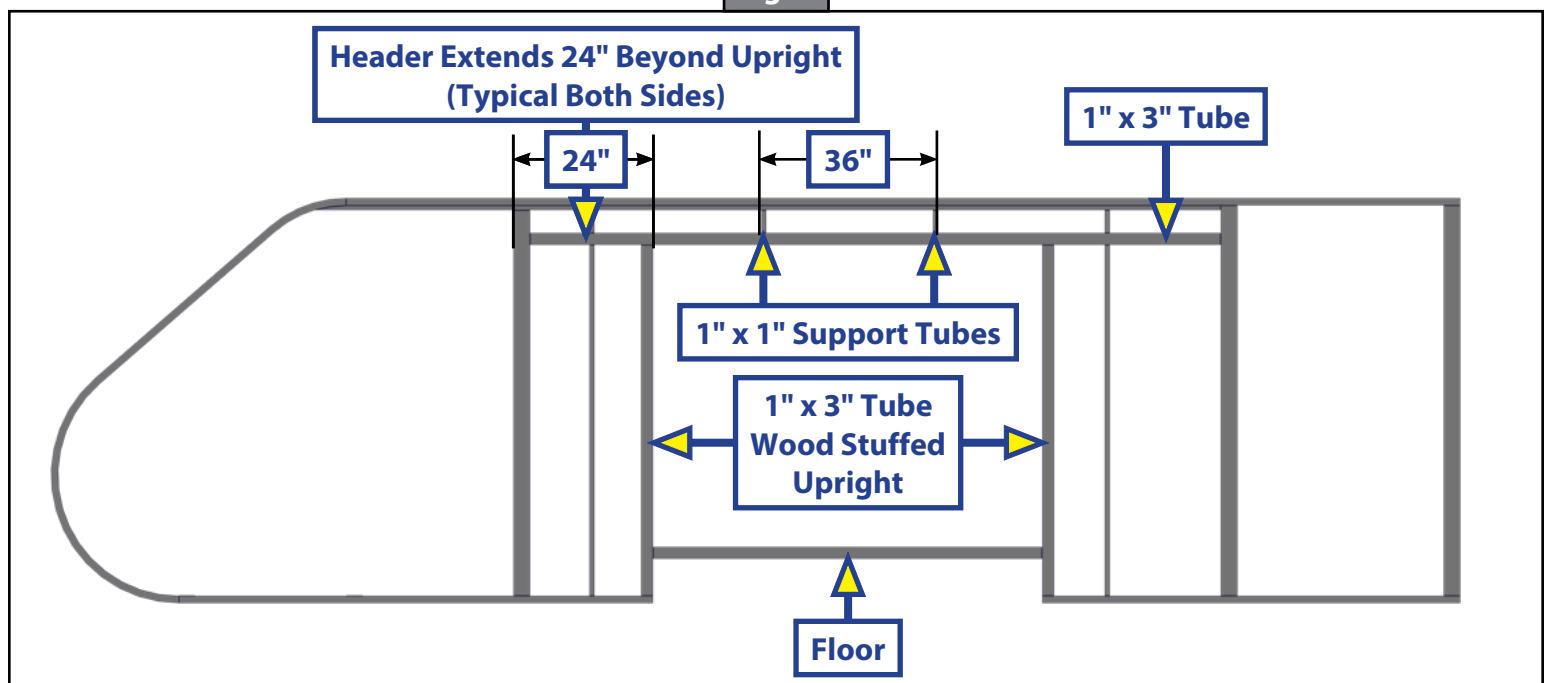
When the bottom support tube is left in place, it is because the wall opening may fall into a wheel well area that sets higher than the floor (Fig. 6). The bottom tube needs to be 0.060" aluminum for travel trailers and 0.070" aluminum for 5th Wheels, only when a tube is needed for the wheel well area. The bottom tube in the slide room can be 0.040" aluminum, unless it falls into the wheel well or upper deck area as explained previously. This piece is typically removed when installing the F.A.S.T. Track Slide-out, depending on how the sidewall sets in relation to the floor (Fig. 7). If the slide room is in the wheel well area, the slide wall structure should start at least 6" above the bottom of the rest of the wall. Slide outriggers will not be recommended in this case.

Fig. 6



Drawing not to scale.

Fig. 7



Drawing not to scale.

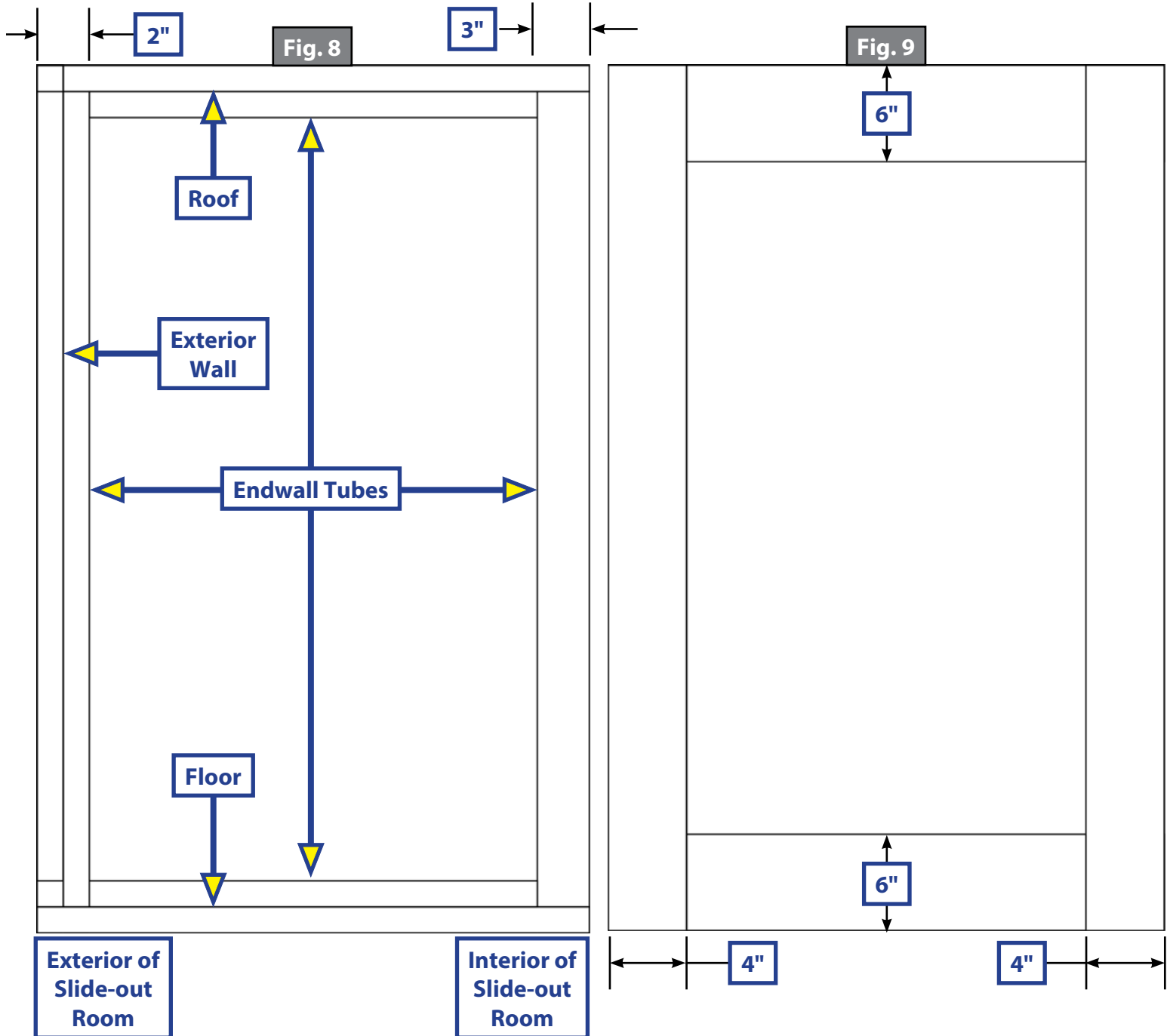
Square

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

Slide-out Room Endwalls

The outside wall of the room must not be tapered.

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. For laminate builds (Fig. 8), Lippert requires aluminum tubes be used as backers. The dimensions of these tubes can vary; however, the exterior wall when combined with the endwall tube must be at least 2" wide. The interior tube must be a minimum of 3" wide. For stick and tin builds (Fig. 9), Lippert 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.



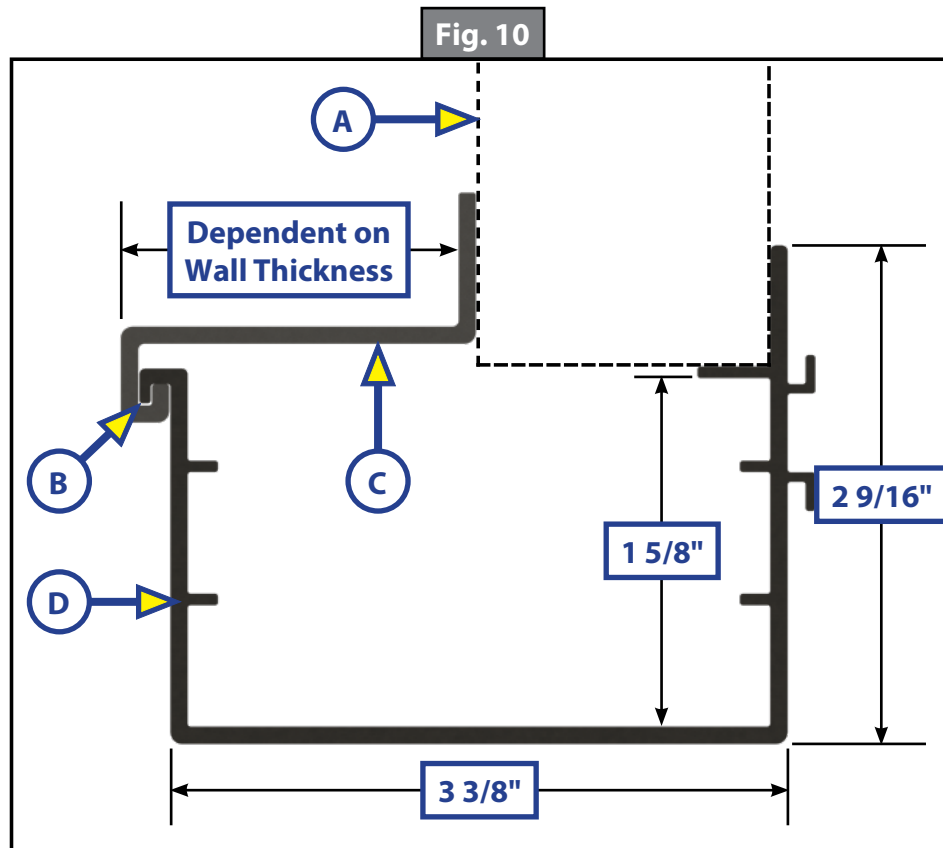
Prior to Installation

Resources Required

- Cordless or electric drill or screw gun
- Staple gun
- Rivet gun
- Adjustable wrench
- #10 x 1" self-tapping flat head screws (lamine builds)
- #10 x 1" wood screws (stick and tin builds)
- Putty tape
- Closed cell foam tape (if necessary)
- Silicon sealant

Measurements For Wall Cutout

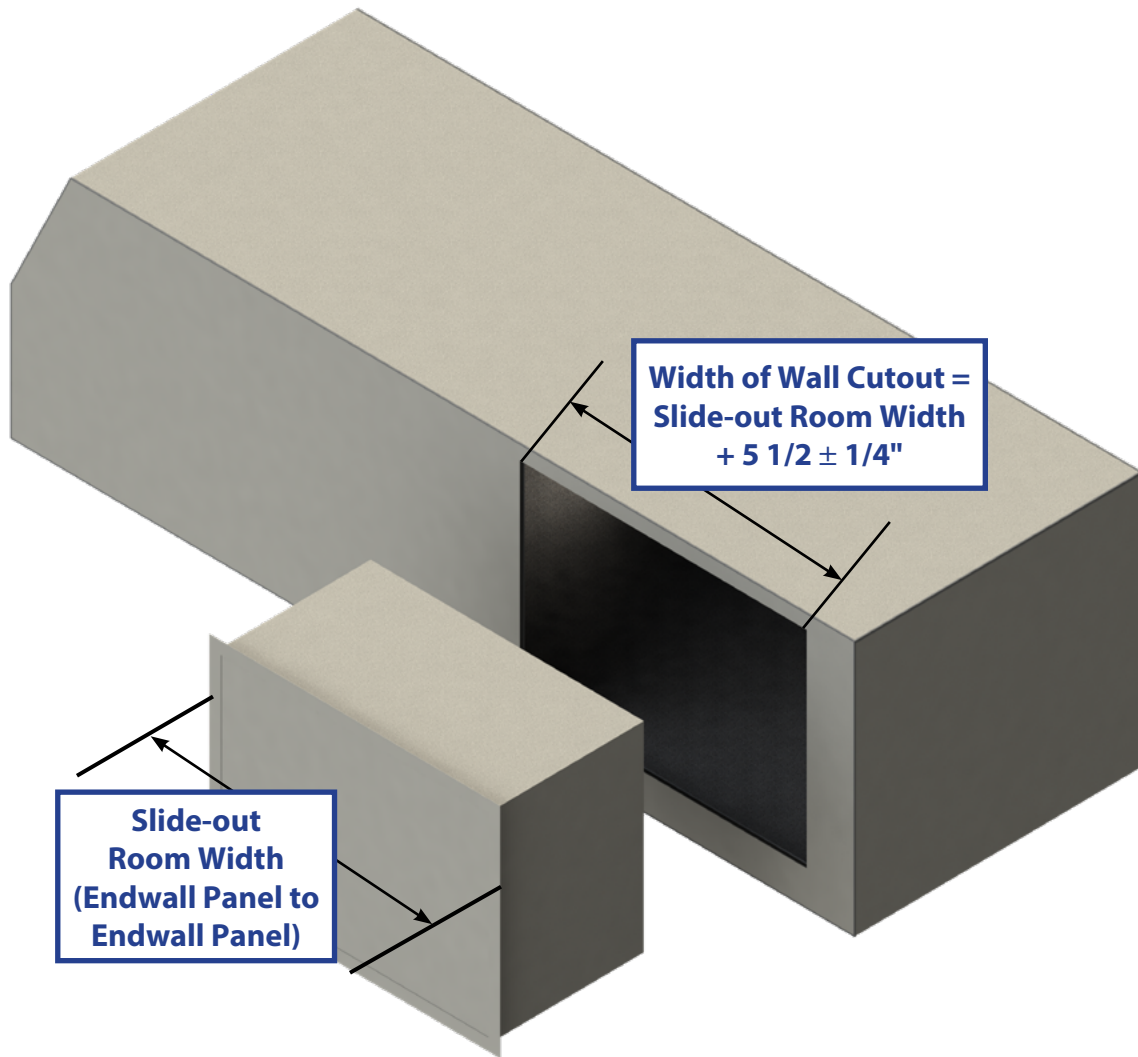
1. The F.A.S.T. Track Slide-out column (Fig. 10D) is 3 3/8" in depth with all protrusions. The exterior width of the column is 2 9/16" and the interior width is 1 5/8".
2. The size of the F.A.S.T. Track Slide-out interior column clamp (Fig. 10C) is dependent on the thickness of the exterior wall (Fig. 10A) of the unit in which the system is being installed. The clamp can be used on walls with the following thicknesses: 1 3/8", 1 1/2", 1 3/4" and 2".
3. There is a 1/4" lip on both the F.A.S.T. Track Slide-out column (Fig. 10D) and interior column clamp (Fig. 10C). These sections should interlock (Fig. 10B) 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.



NOTE: 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. 11).

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. 11).

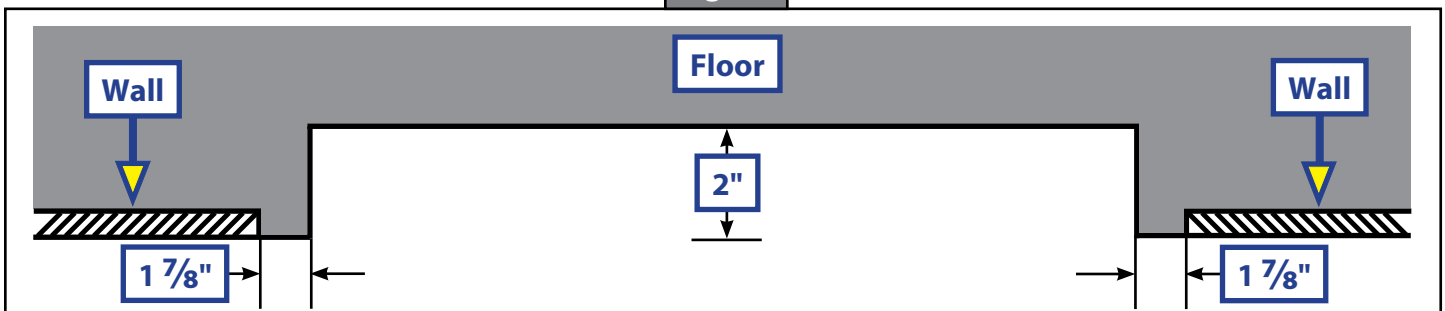
Fig. 11



Slide-out Room Floor Cutout

The main floor can be notched to allow the running of wire carriers. 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. 12). Tape the edges of the rough opening with fiberglass tape.

Fig. 12



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. 13A) to the top exterior of the wall cutout according to manufacturer's specifications.
4. Thread the bulb seal (Fig. 14A) along the upper wipe seal track (Fig14B).

NOTE: Do Not install the upper interior wipe seal at this time.

Fig. 13

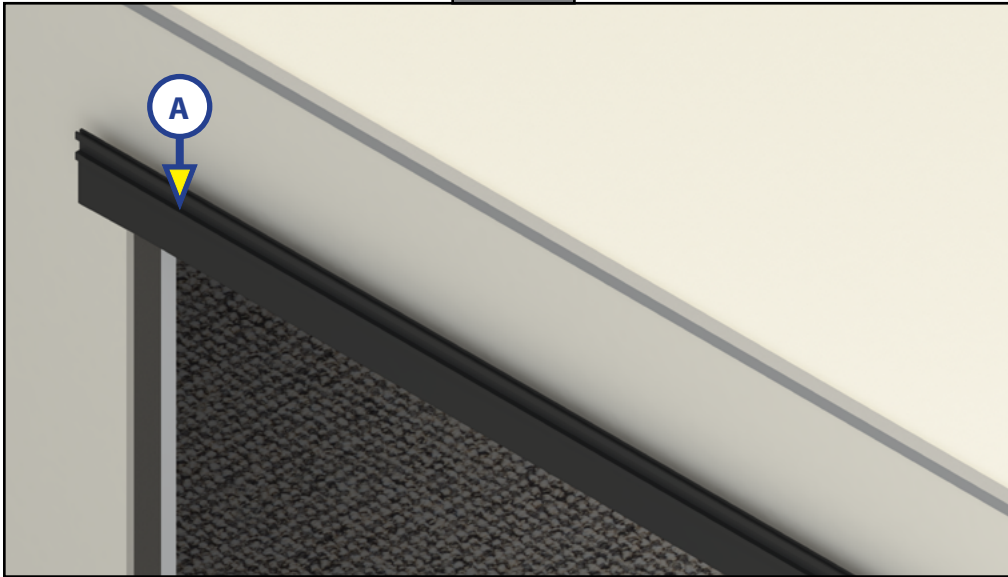
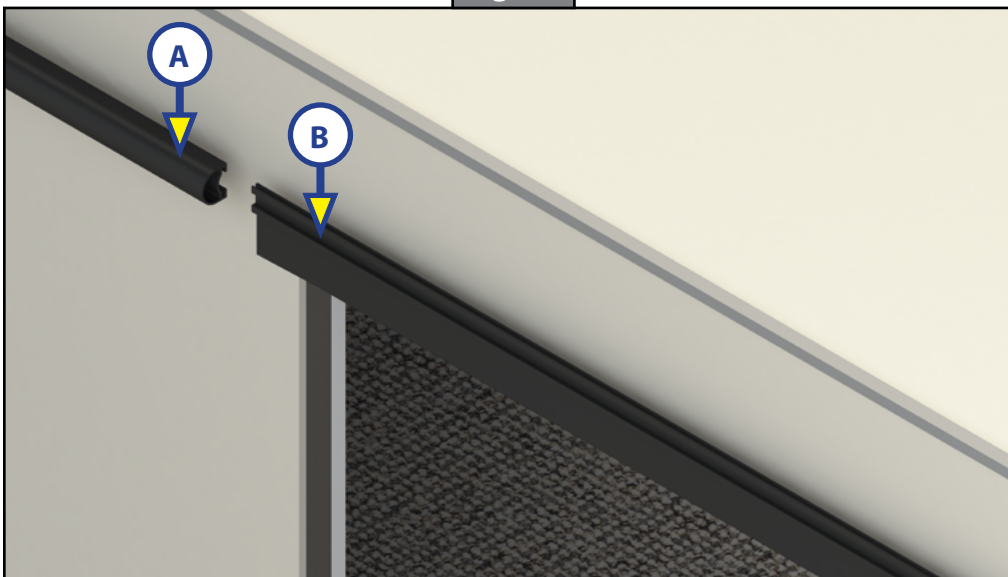


Fig. 14



Lower Wipe Seal and Drip Pans

NOTE: Corners **MUST** be at 90 degrees with no obstructions.

NOTE: In order to install the lower wipe seal and drip pans, a wood nailer **MUST** first be installed along the lower interior edge of the wall cutout. The lower sill **MUST** be built out to fully support the lower wipe seal and drip pans. The dimensions of the wood nailer will be dependent on the wall thickness.

NOTE: Steps 1 and 2 only apply if the slide is mounted in the wall instead of the on the floor.

1. Place the drip pan (Fig. 15B) on the lower sill (Fig. 15A) to determine the dimensions needed for the wood nailer (Fig. 15C).
2. Install the wood nailer (Fig. 15C) to the interior of the lower sill (Fig. 16A) along the entire length of the wall cutout.
3. Prepare the lower wall surfaces and sill using adhesion promoter or a 50/50 alcohol-to-water mix to clean and prepare area for complete adhesion of sealant.
4. Apply silicon sealant to the bottom of the drip pans (Fig. 16A) and press firmly into the lower corners of the wall cutout, on top of the sill (Fig. 16C) and wood backer (Fig. 16B).
5. Remove the liner from the adhesive tape on the backside of the lower wipe seal (Fig. 17B) and press firmly into place along the lower sill of the wall cutout and on top of the drip pans (Fig. 17A).
6. Secure the lower wipe seal (Fig. 17B) to the unit according to manufacturer's specifications.
7. Apply silicon sealant to the edges of the lower wipe seal that are overlapping the drip pans.
8. Thread the bulb seal (Fig. 18A) along the lower wipe seal track (Fig. 18B) on the exterior of the unit.

Fig. 15

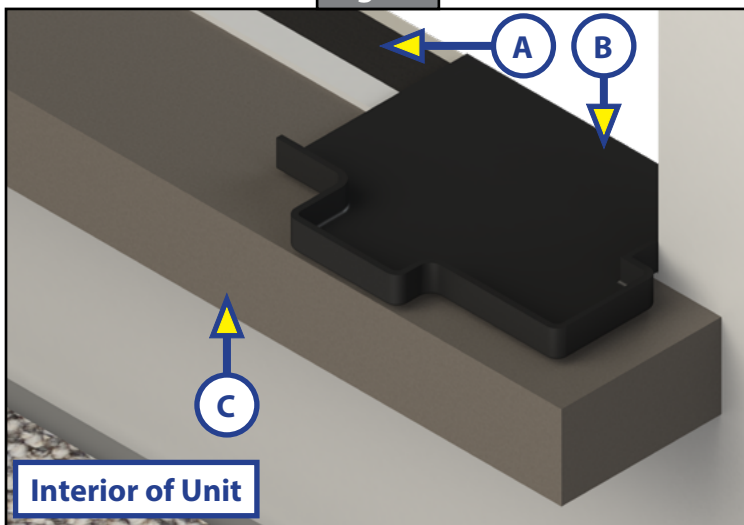


Fig. 16

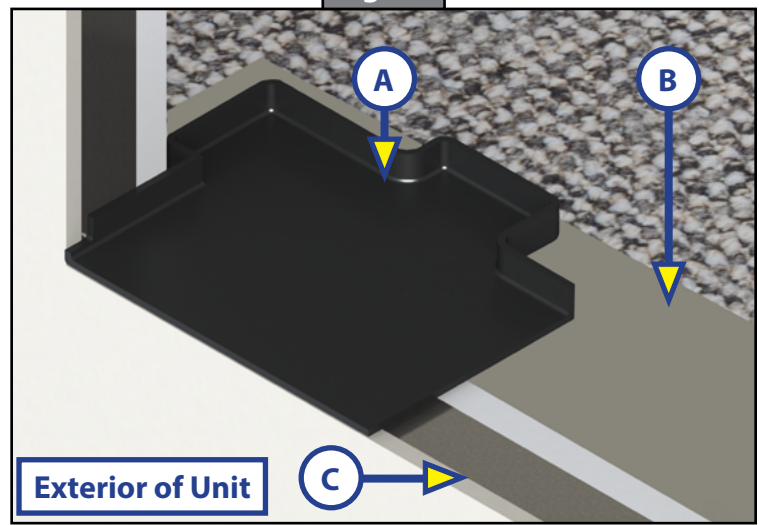


Fig. 17

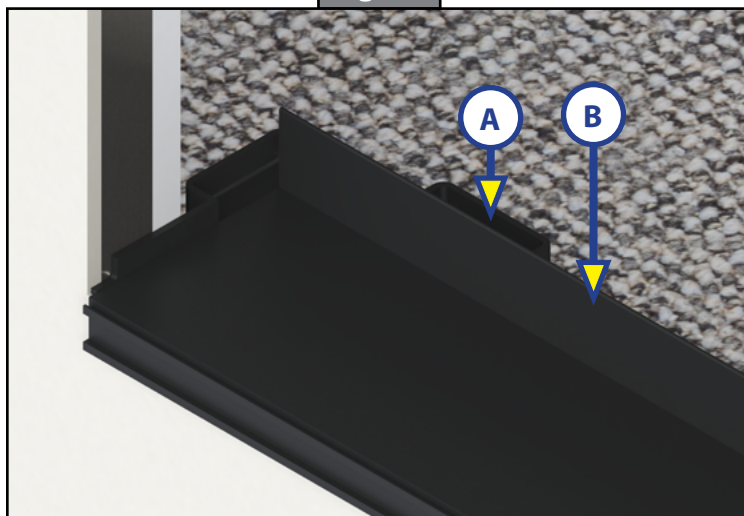
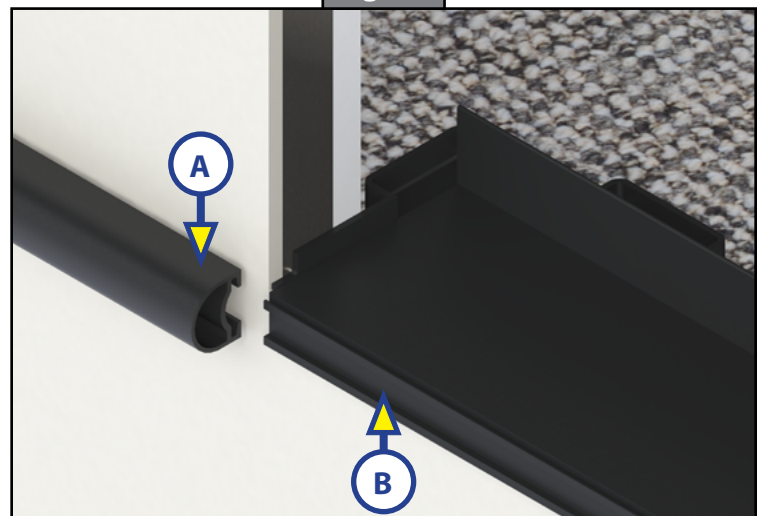


Fig. 18



Rollers

NOTE: Rollers are recommended by Lippert unless using other methods/applications approved by Lippert.

NOTE: The weight of the slide-out room **MUST NOT** exceed the roller's maximum weight capacity established by the manufacturer's specifications.

1. Place each end roller 6" from the sidewall. Span remaining rollers along the lower sill of the wall cutout every 24"-36" (Fig. 19). Be sure the rollers are at least 1/4" from the exterior edge of the lower sill (Fig. 20).
2. Apply silicon sealant over the pre-drilled holes on the bottom surface of the rollers.
3. Secure the rollers with four #10 x 1" wood screws (Fig. 20A) through pre-drilled holes on roller bracket.

Fig. 19

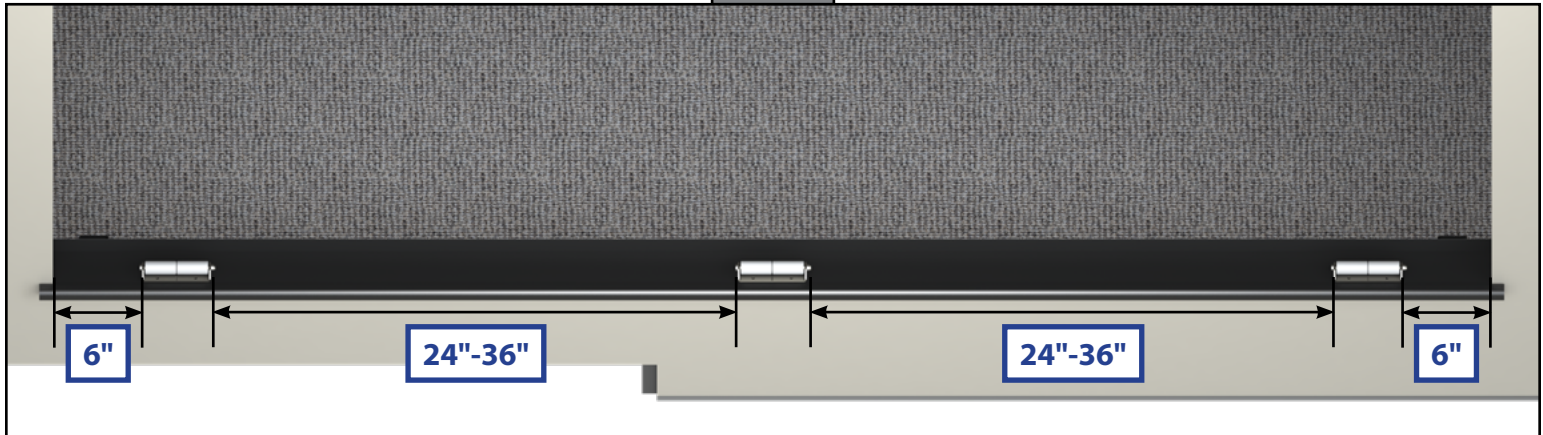
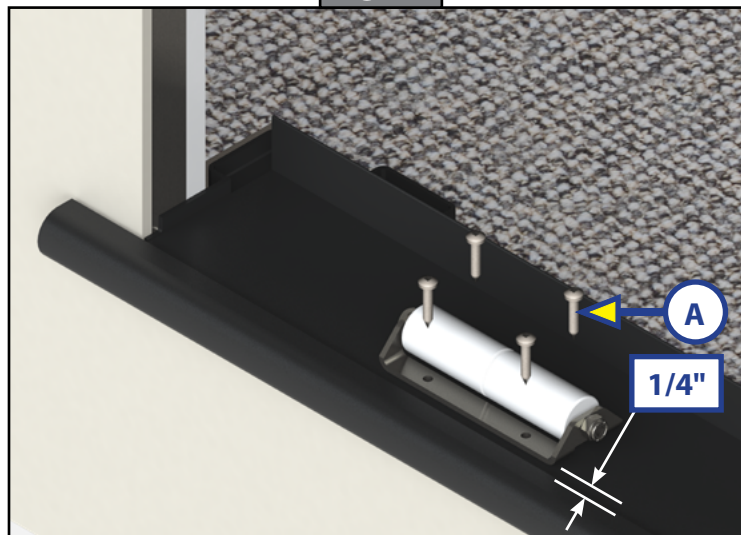


Fig. 20



Columns

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

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

NOTE: Notch both ends of the upper exterior wipe seal 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 (Fig. 21).

1. Remove the liner from the putty tape or closed cell foam tape.
2. 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. 22).
3. Working from the floor of the unit up to the ceiling, apply gradual pressure to adhere the column to the exterior wall, ensuring that the column seats properly into the wall cutout (Fig. 22).
4. Holding the column in place, secure the column to the exterior of the unit using #10 x 1" screws (Fig. 23A) through the pre-drilled holes in the slide-out column.

Fig. 21

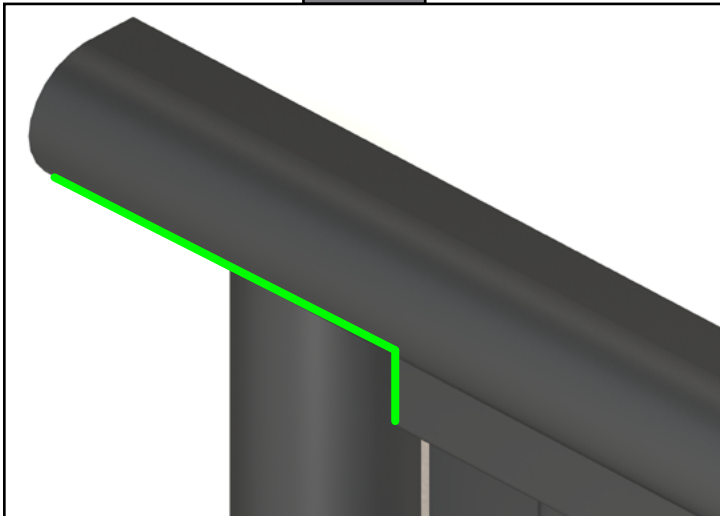
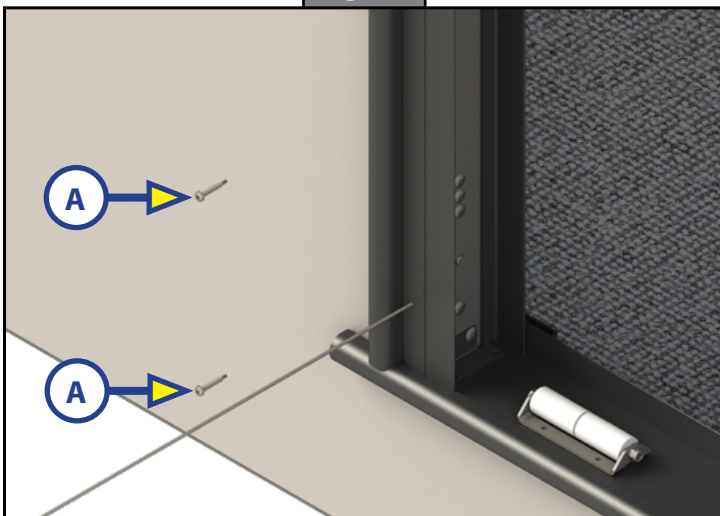


Fig. 22



Fig. 23



Upper Interior Wipe Seal

NOTE: 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, determine the dimensions needed for the wood nailer.
2. Install the wood nailer (Fig. 24A) 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. 25) for complete adhesion of sealant.
4. Remove the liner from the adhesive tape on the backside of the upper interior wipe seal (Fig. 25B) and press firmly into place along wood nailer (Fig. 25A)

NOTE: Notch both ends of the upper interior wipe seal as needed and be sure the seal is on the outside of the slide-out column (Fig. 25).

5. Secure the upper interior wipe seal to the unit according to manufacturer's specifications.
6. Thread optional bulb seal (Fig. 26A) 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. 24

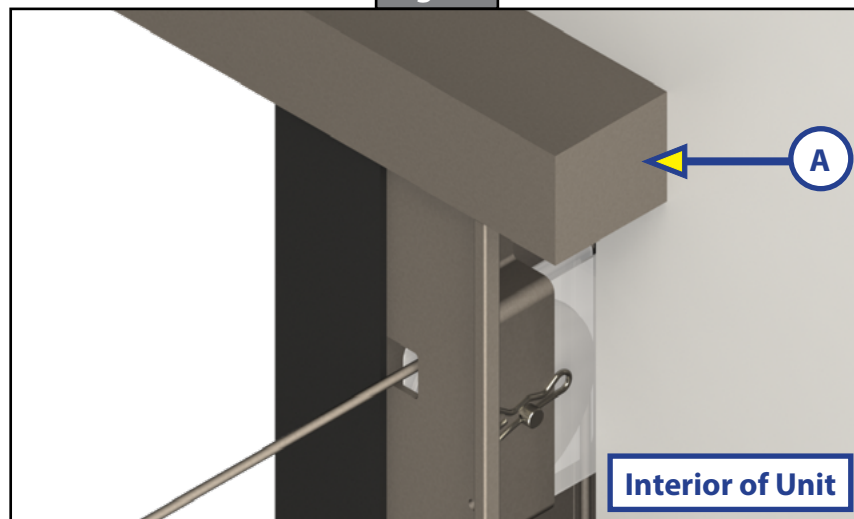


Fig. 25

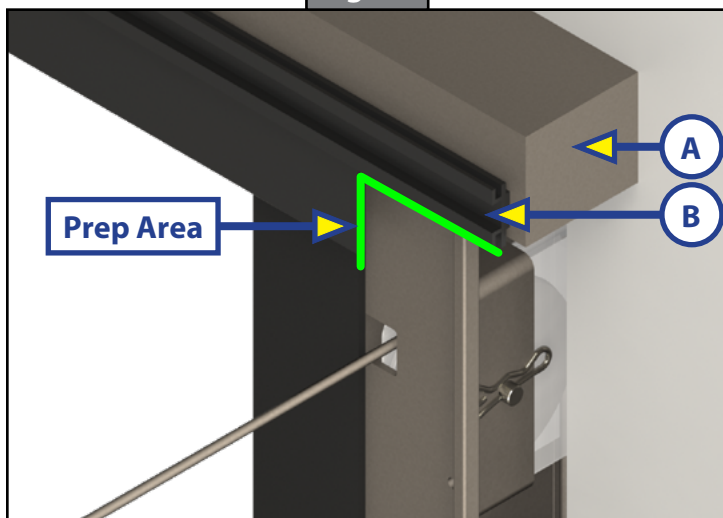
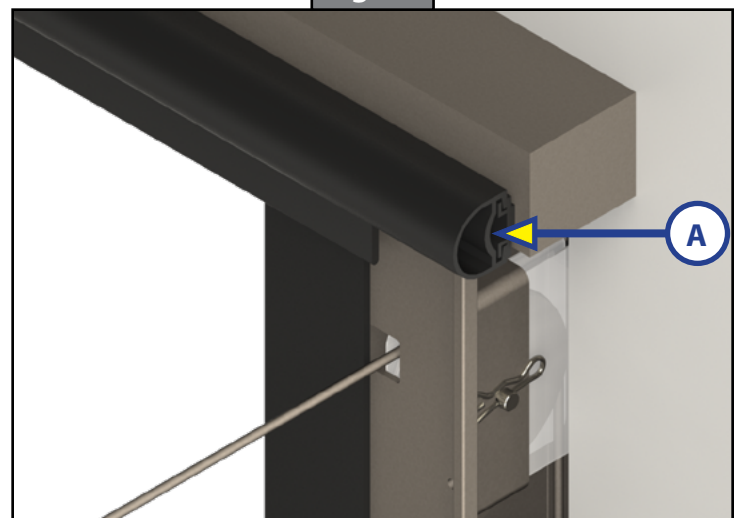


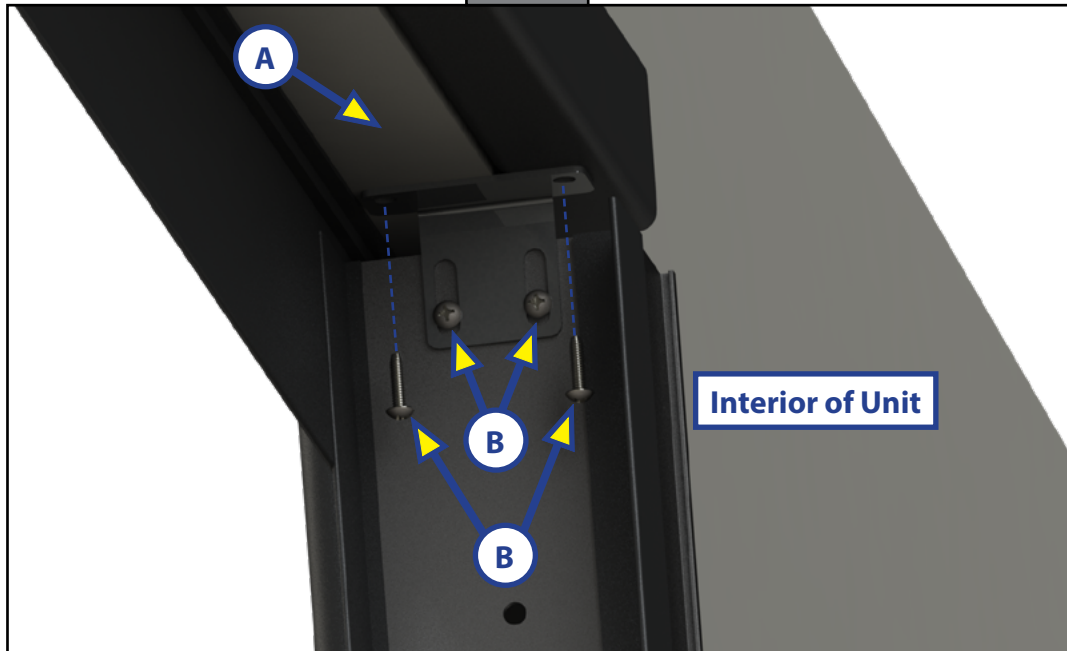
Fig. 26



Anchor Tabs

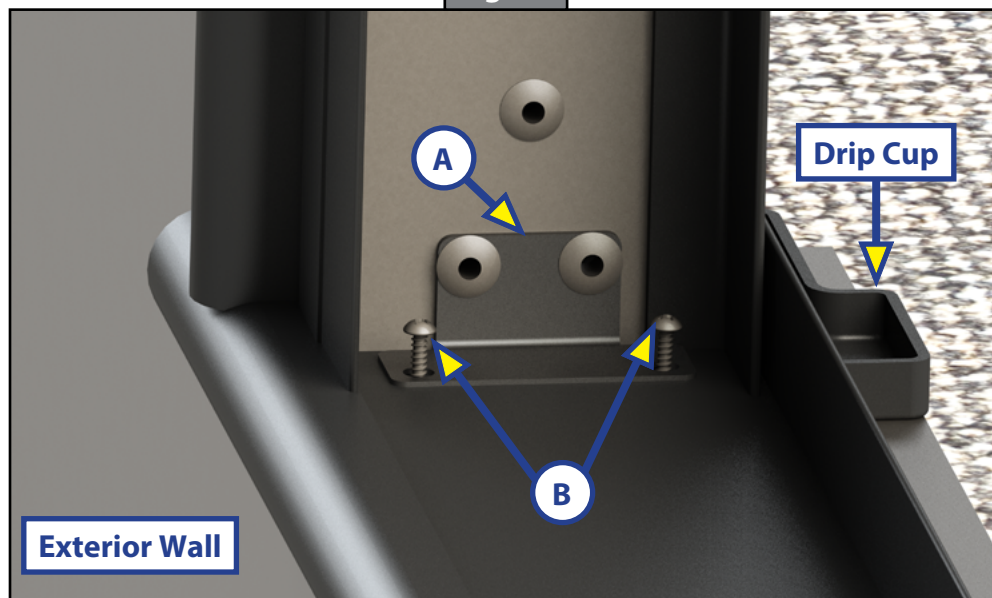
1. Attach the anchor tab (Fig. 27A) to the upper end of the F.A.S.T. Track Slide-out column inside the opening with four #10 x 1" wood screws (Fig. 27B).

Fig. 27



2. Locate the anchor tab (Fig. 28A) 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. 28B).

Fig. 28



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.

NOTE: For laminate builds, Lippert 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. 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.
2. Holding the column clamp in place, secure the clamp to the interior wall using #10 x 1" screws (Fig. 29). 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.
3. 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 (Figs. 30), 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. 29

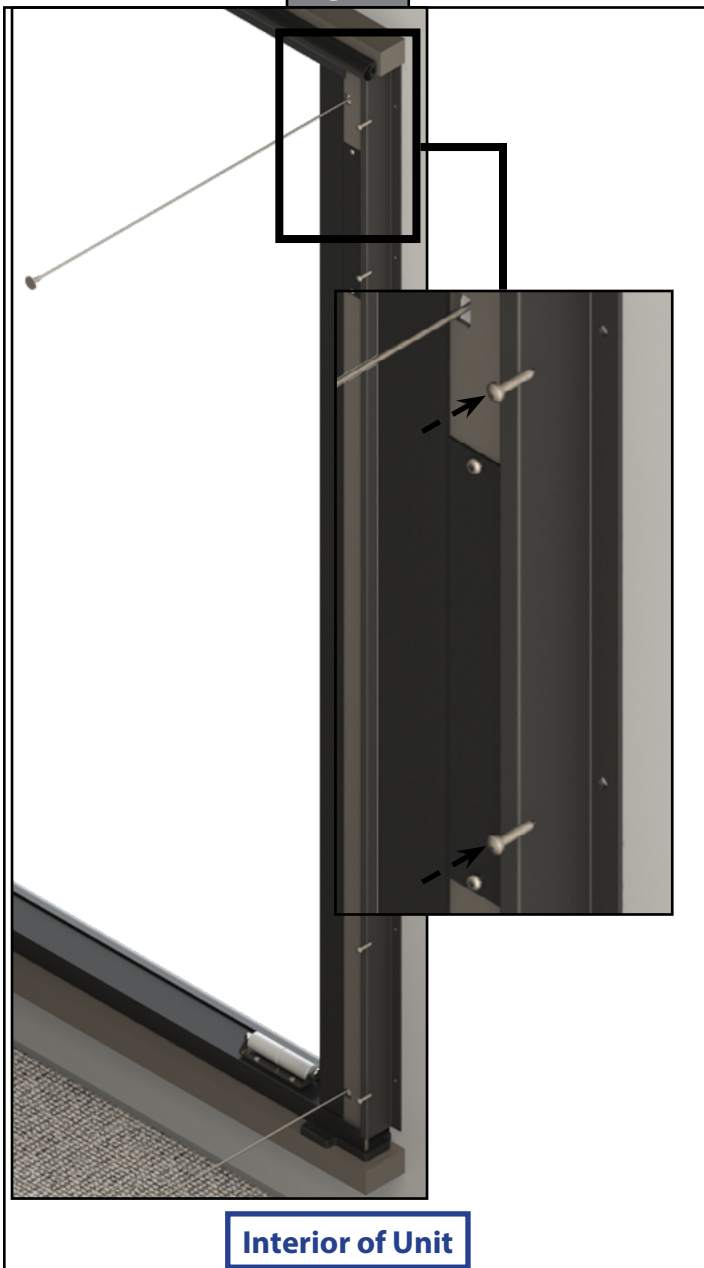
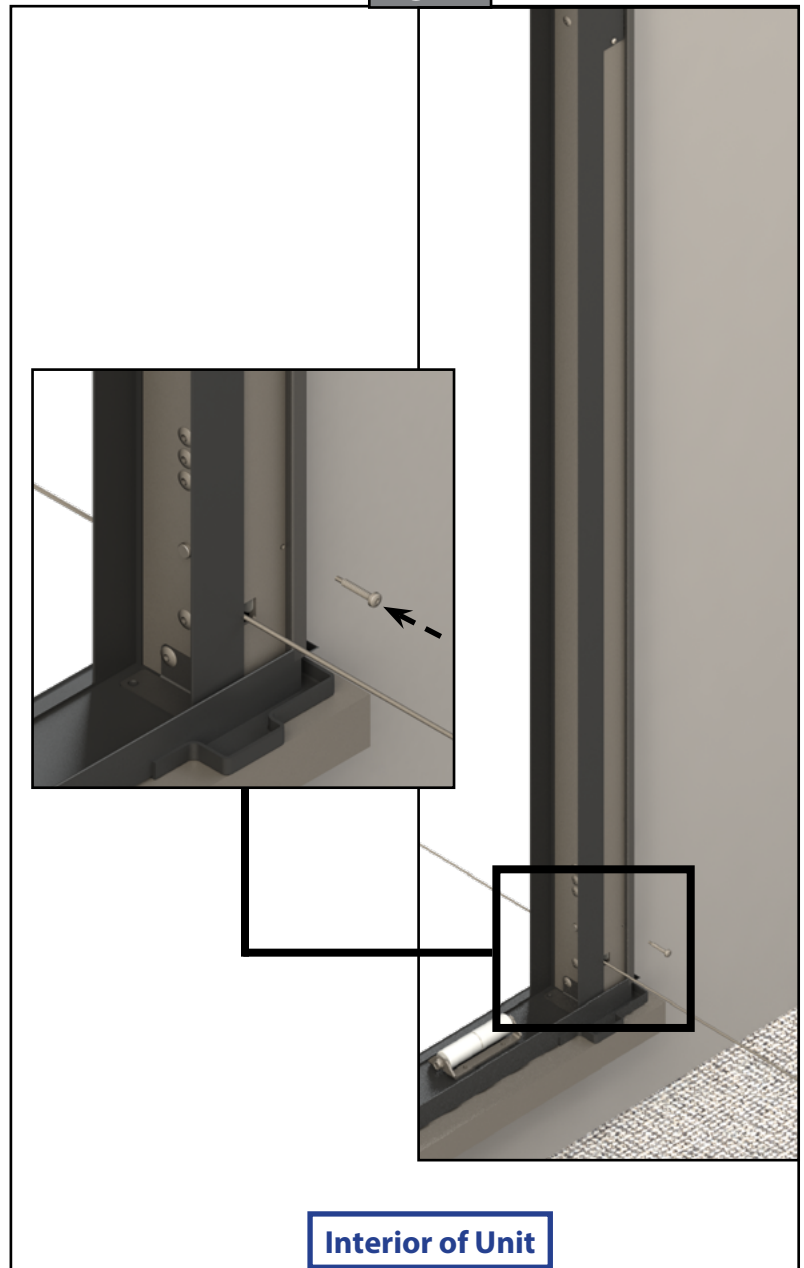


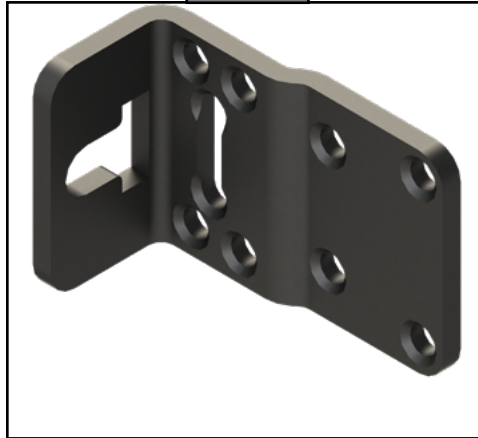
Fig. 30



Exterior Anchor Brackets

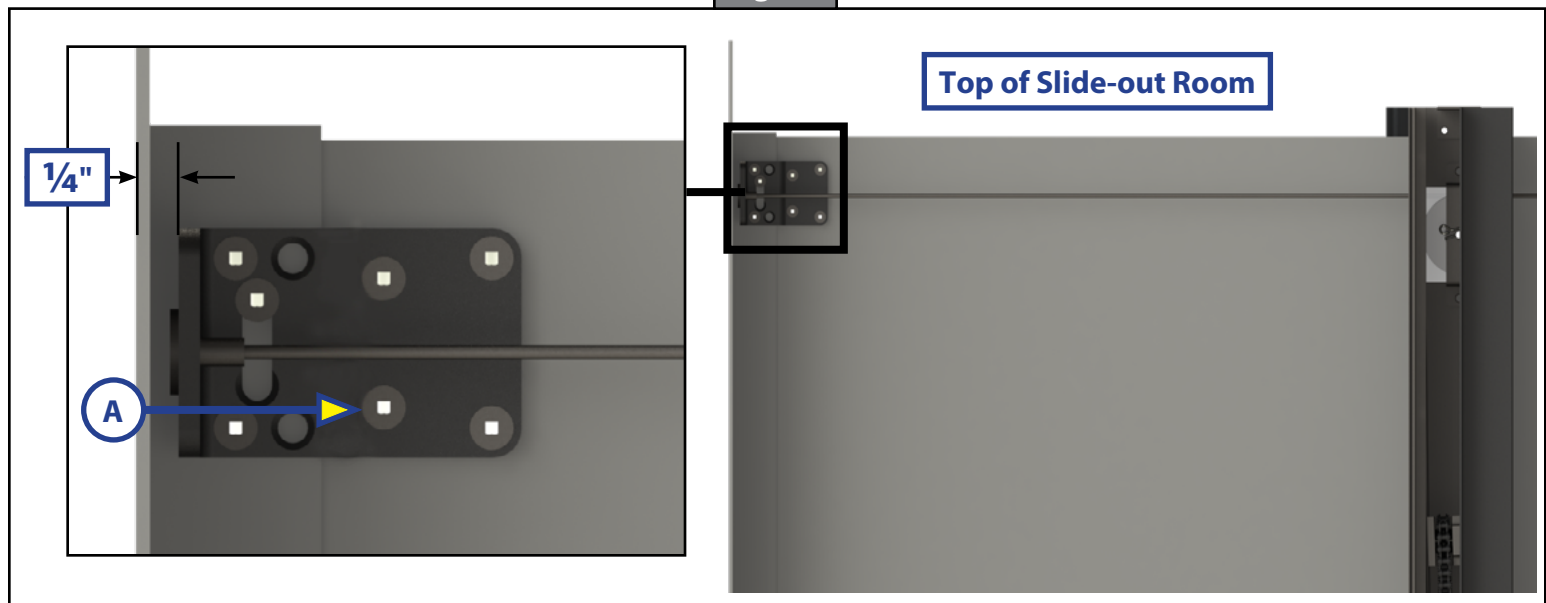
Laminate builds and stick and tin builds will use the same type of exterior anchor brackets (Fig. 31). Additionally, the types of screws used for installation will differ. For laminate builds, Lippert requires the use of #10 self-tapping flat head screws and #10 flat head wood screws for stick and tin builds..

Fig. 31



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. Starting at the top exterior of the slide-out room, thread the exposed cable anchor and cable through the slot in the anchor bracket.
3. Place the bracket on the slide-out room T-molding, 1/4" from the outer edge (Fig. 32).
4. Secure the bracket with a minimum of six #10 screws (Fig. 32A).
5. 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. 32



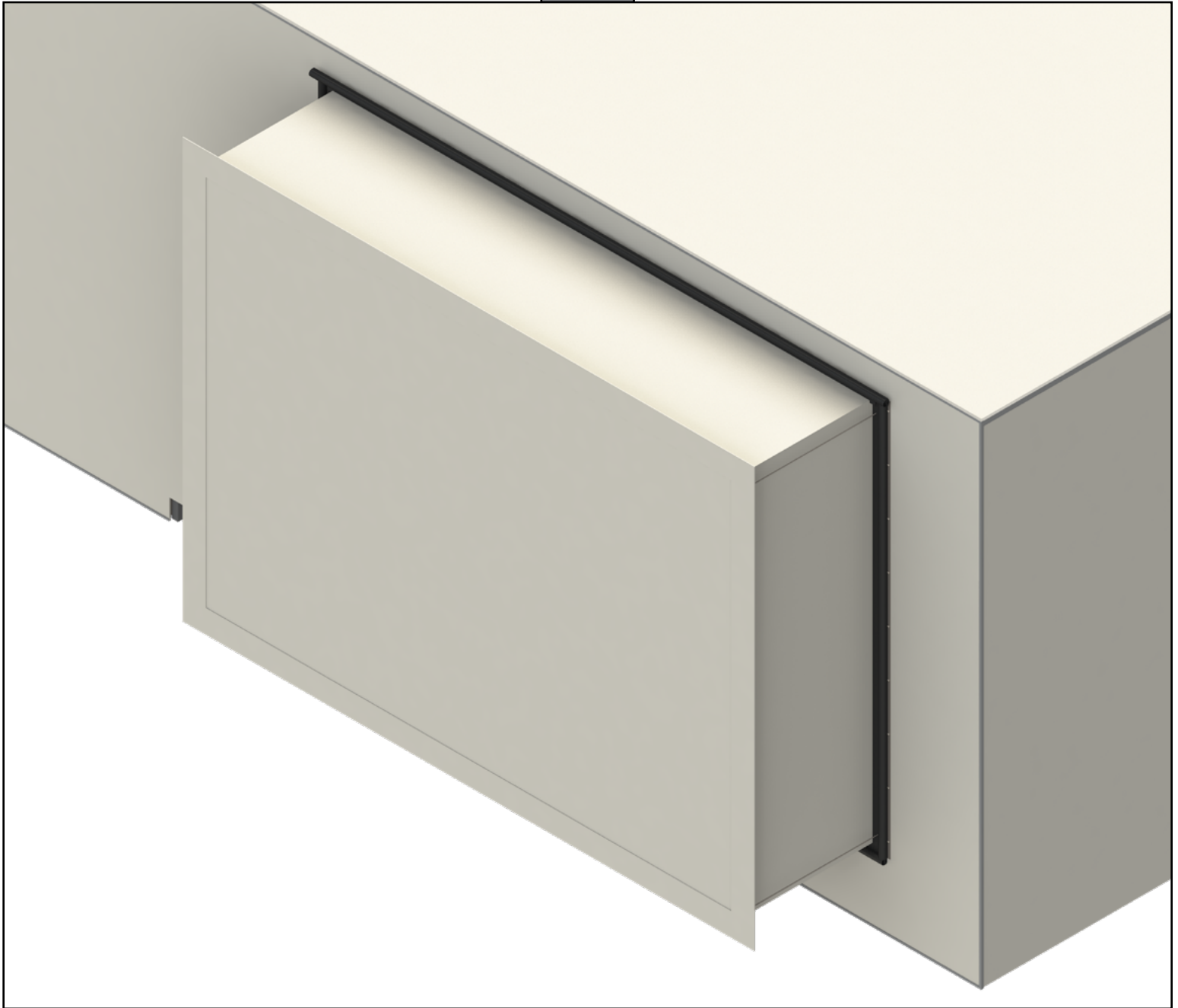
NOTE: Images illustrate an exterior bracket (Fig. 26) being installed on a laminate build with #10 self-tapping flat head screws. The length of the screw is dependent on the backer construction.

Slide-out Room

NOTE: 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, with the brackets and F.A.S.T. Track slide-out system installed, 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. 33).

Fig. 33



Interior Anchor Brackets

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

When installing the interior anchor brackets (Fig. 34), tension **MUST** be placed on the cables during installation. This is accomplished by using an adjustable wrench for leverage (Fig. 35).

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 1/4" in from the edge of the slide-out room (Fig. 35A). Keep in mind that once the bracket is pivoted, the cable (Fig. 35B) must be perpendicular to the slide-out column (Fig. 35C) and in line with the cable exit hole (Fig. 35D).
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. 35). 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 six per bracket.
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. 34

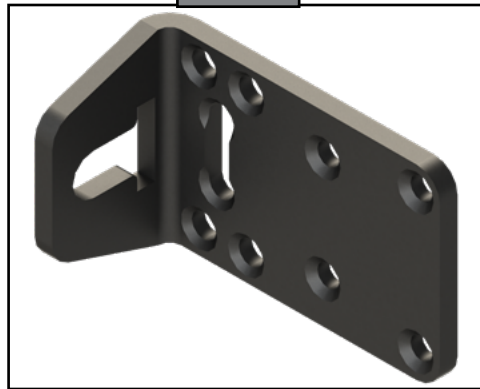
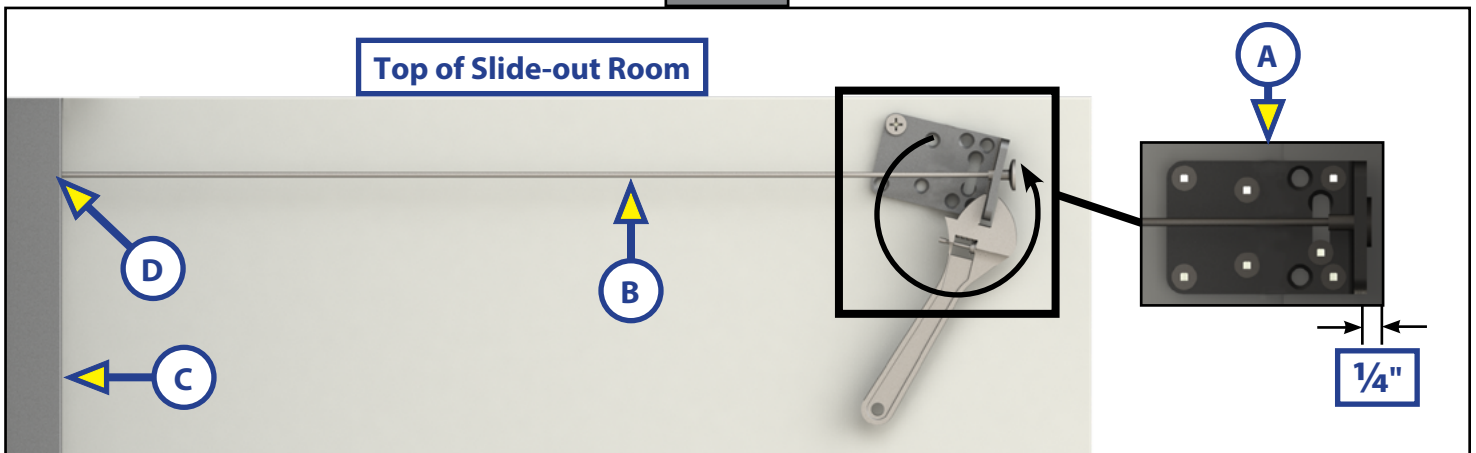


Fig. 35



NOTE: Image illustrates an interior bracket (Fig. 34) 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. 36A) 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. 36A) **MUST** be mounted with the face visible, allowing for indicator lights (Fig. 36E) accessibility for resetting and troubleshooting purposes.

2. Determine a location to mount the OEM-supplied switch.
3. Route and attach the switch harness (Fig. 36B) from the controller to switch mount location.
4. Mount the switch according to OEM specifications.
5. Route and attach the motor 1 harness (Fig. 36F) and motor 2 harness (Fig. 36G) from the controller to the corresponding slide-out motors.

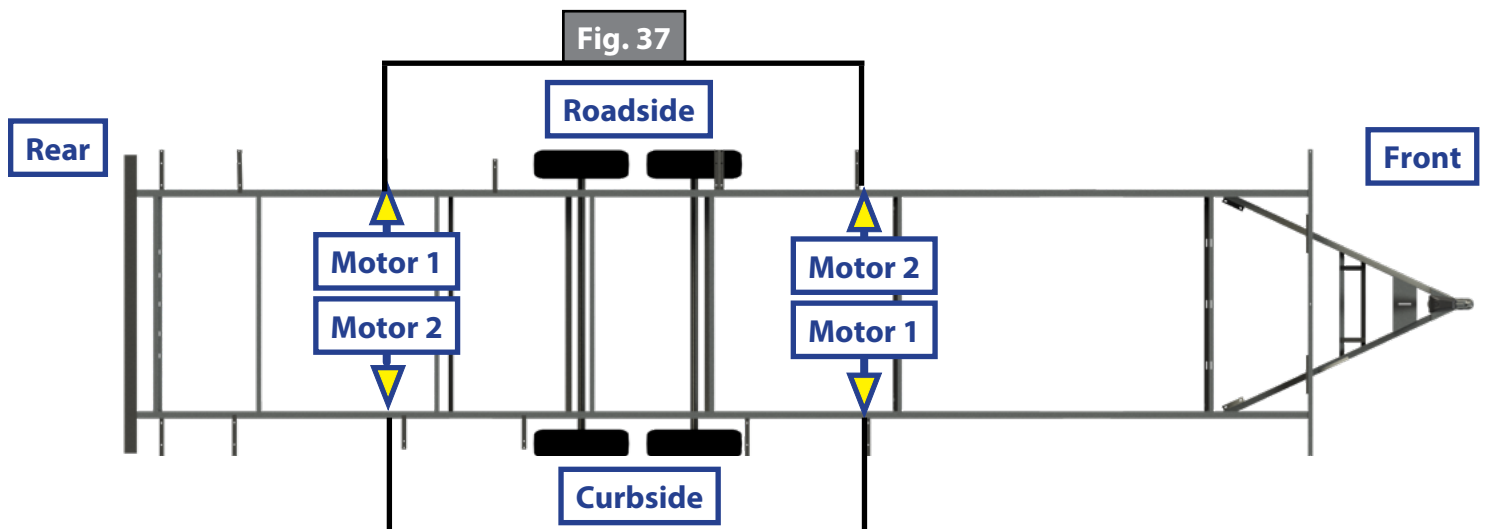
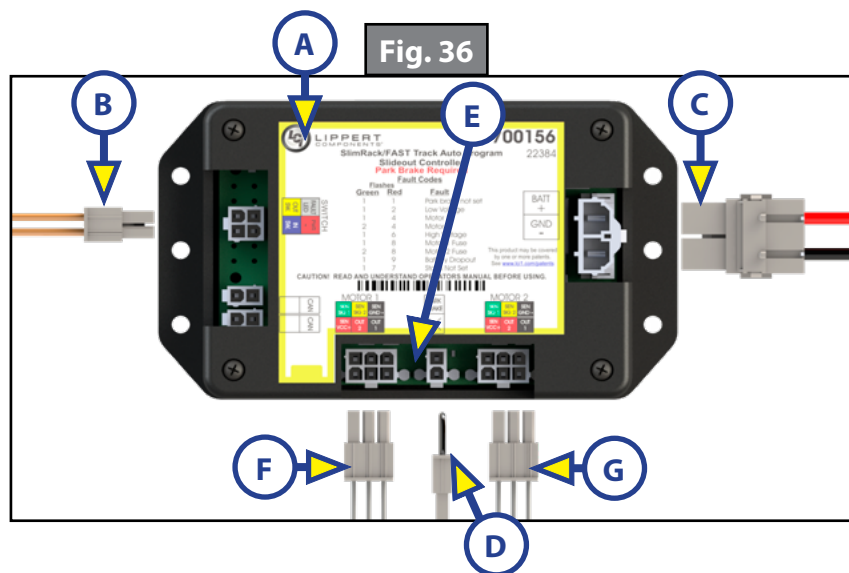
NOTE: When identifying motor 1 and motor 2, refer to Fig. 37.

6. Route and attach the park brake input harness (Fig. 36D) from controller to the park brake signal source, if using control 700156 (Fig. 36A) and installing on a motorized unit.

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

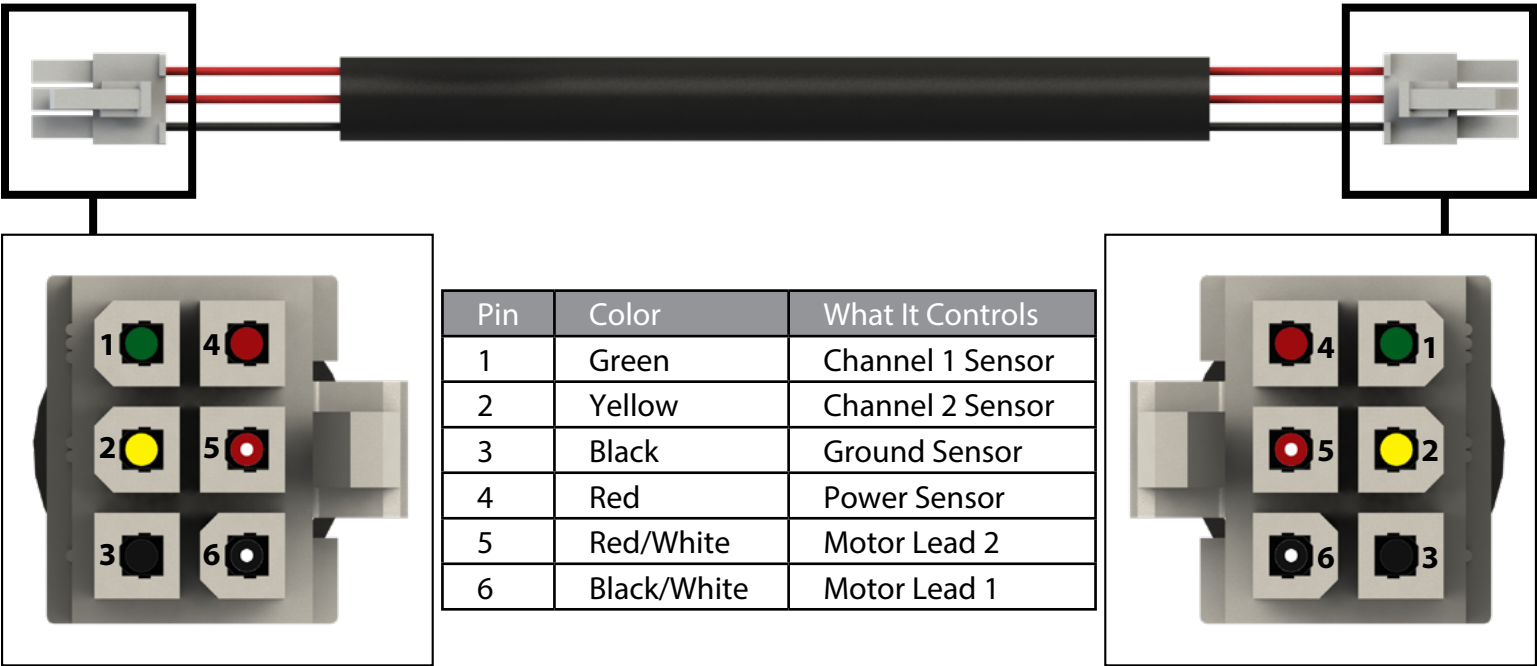
7. Route and attach the proper gauge wire (Fig. 36C) from the controller to the 12V DC battery.

NOTE: System must be wired using 10 AWG wire minimum. Power to the slide-out controller is to be protected by the OEM-supplied 30 amp resettable breaker.

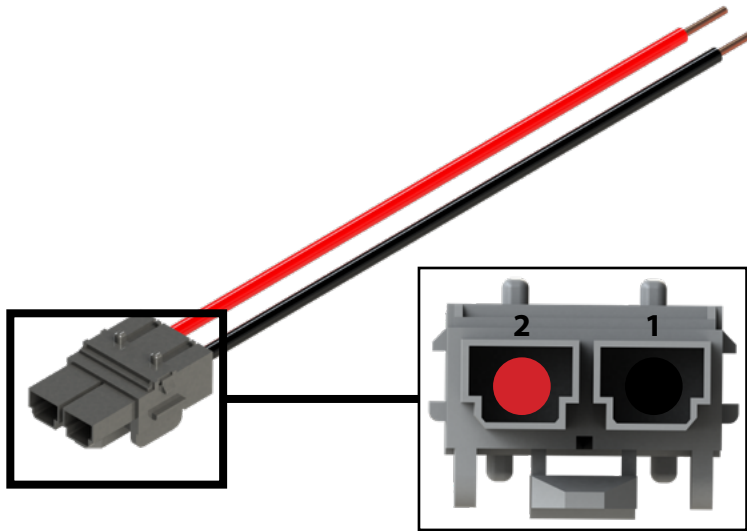


Wiring

Motor Harness

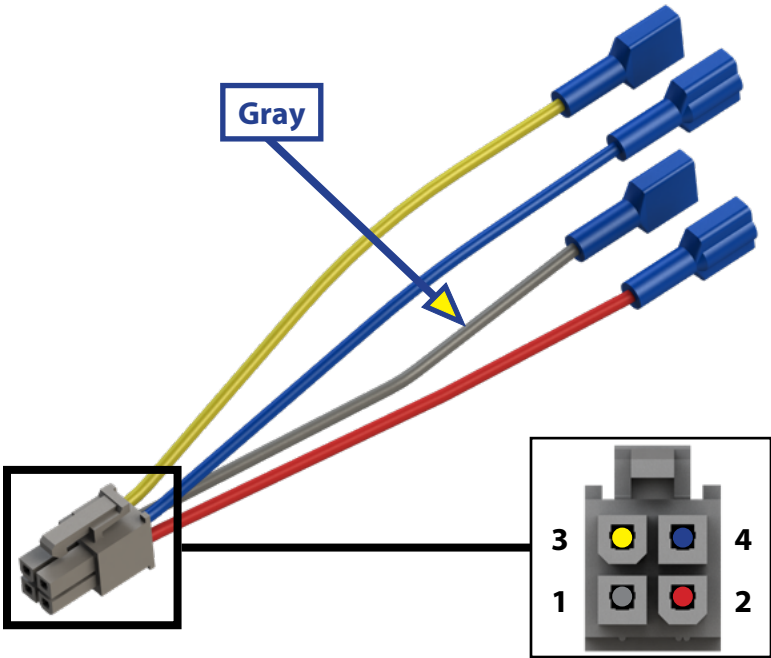


Power Harness



Pin	Color	What It Controls
1	Black	Ground
2	Red	Power

Switch Harness



Pin	Color	What It Controls
1	Gray	Fault Code LED
2	Red	Switch Power
3	Yellow	Switch Out
4	Blue	Switch In

If the slide-out operation rocker switch is not supplied by LCI, the gray wire on the 4 wire switch harness is not utilized.

Programming

NOTE: 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.

CAUTION

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 cables when the room is being operated.

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 cables when the room is being operated.

Extending the Slide-out Room

1. If equipped, remove the transit bars.
2. If equipped, turn "ON" the 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 on/off switch or key.

Retracting the Slide-out Room

1. If equipped, turn "ON" the 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 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 Codes 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 TIP Sheet 82-SO533 for troubleshooting.
	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. Attach upper spacer on the interior of the wall.
3. Attach Header seal, pan, wear bar and drip cups.
4. Place columns in opening, attach to the outside of unit.
5. Attach anchor tabs, top and bottom.
6. Attach Exterior brackets.
7. Insert room into opening.
8. Attach Interior clamps on each column.
9. Connect motor harness.
10. Attach cables to exterior brackets.
11. Attach interior brackets.
12. Run room/set stops



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