

LIFT AND SLIDE DOOR - FOR FACTORY ASSEMBLED JAMBS WITH APPLIED SILL

READ SPECIFIC INSTALLATION INSTRUCTIONS COMPLETELY BEFORE STARTING ANY INSTALLATION

Failure to install and maintain our product according to these instructions will VOID any warranty, written or implied. The installer is responsible for consulting the contractor, structural engineer, architect, or consumer, for proper installation according to local codes and/or ordinances.

WARNING Every assembly and installation is different from Parrett Windows & Doors. Parrett strongly recommends consultation with a Parrett supplier or an experienced contractor, architect, or structural engineer prior to the assembly and installation of any Parrett product. **PARRETT HAS NO RESPONSIBILITY IN REGARD TO POST-MANUFACTURED ASSEMBLY AND INSTALLATION OF PARRETT PRODUCTS.**

CAUTION Factory applied exterior Brickmould and casing **DO NOT** take the place of standard window flashing. Each unit must be properly flashed and sealed with silicone for protection against water and air infiltration.

WARNING TO INSTALLER

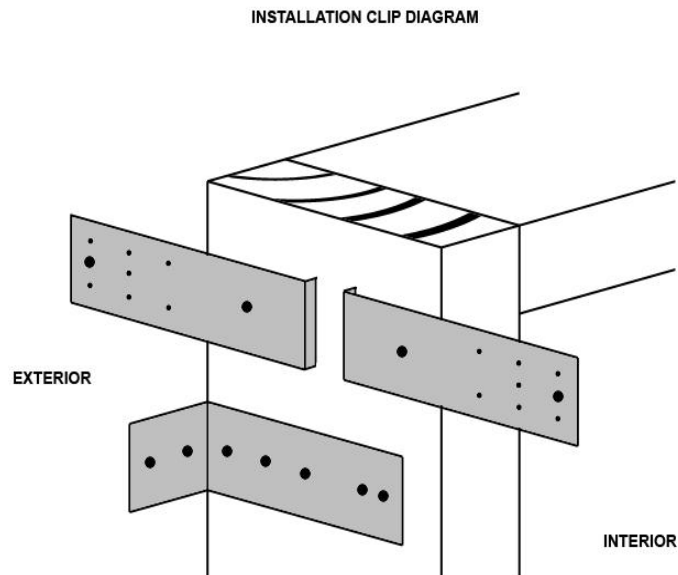
- Using ladders and/or scaffolding and working at elevated levels can be very dangerous. Follow the manufacturer's instructions for all equipment used in order for safe operation. Please use extreme caution when working around window or door openings. Falling from opening may result in injury or death.
- Improper use of hand/power tools could result in injury and/or product damage. Again, follow manufacturer's instructions for safe operation of equipment. ALWAYS WEAR SAFETY GLASSES.
- Windows and doors can be very heavy and improper lifting techniques can result in serious injury. Use safe lifting techniques and a reasonable number of people with enough strength to lift, carry, and install any Parrett window and door products to avoid injury and/or damage to any product.

ITEMS REQUIRED BY INSTALLER

- Safety Glasses
- Tape Measure
- Level
- Hammer
- Putty Knife
- Carpenter's Square
- Caulk Gun
- Phillips Screwdriver
- Power Drill
- 3/16" Drill Bit
- Foam Backer Rod
- UV Resistant Exterior Sealant
- Shims
- 9" Adhesive Backed Rubber Membrane

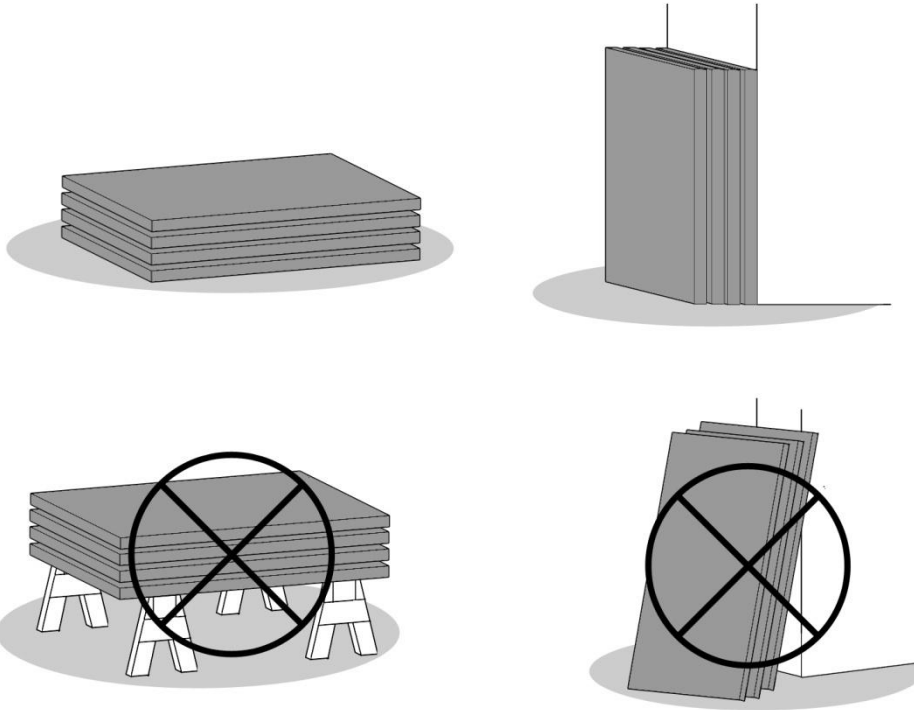
1. Jamb Preparation

- Remove any diagonal bracing or other packaging from unit exterior only. Place unit exterior side down on a clean flat work surface.
- Remove all remaining bracing and packing from unit making sure to not damage the unit.
- Remove any loose items. Extension jamb will be factory applied unless ordered loose.
- Identifying the exterior of the jamb can vary depending on your configuration. Standard units will have a sloping edge on only one side of the sill. This side is your exterior. On designs without the sloping sill other identifiers should be used such as; exterior color/ finish, operation direction/ configuration, metal cladding, or wood species when species differs from interior to exterior.
- Install clips on side jambs. Proceed as follows:
 - Two types of clips are provided. The clips can be differentiated by one having a longer leg.
 - Apply the clips with the longer leg on the side jamb. The clips are oriented with the long strap end against the jamb and the leg protruding away from the jamb. The leg should be flush to the exterior of the jamb. Position these equally spaced along the side jamb, and a maximum of 8" from the top and bottom. These clips are not the main means of installation fastening. They are provided as an aid in the installation.
 - Fasten the clips using three #10 x 1" pan head screws.
 - Apply the clips with the short leg on the same side of the jamb as the clips with the long leg. These clips are oriented with the short leg towards the center of the jamb and protruding towards it. Approximately 3 ½" of the flat end of the clip should be sticking out from the exterior of the jamb. Fasten using a #10 x 1" pan head screw. When installed properly the end with the small leg will be slightly bent to stop the clip from spinning.
 - Space these clips 12" on center along the side and a maximum of 4" from the top and the bottom.
 - Repeat these steps to install clips that extend to the interior side of the jamb as well.
 - Clips should be installed on both the left and right side jamb.



2. Panel Storage

- Due to the nature and size of many of these units, panels are often shipped separately from the frame. Panels must be stored laying **fully supported** on a clean surface, or standing **completely vertical**.



WARNING- DO NOT store panels in a standing/ leaning position, or laying flat on saw bucks or blocks of any fashion. Improper storage can diminish the performance and life of the units.

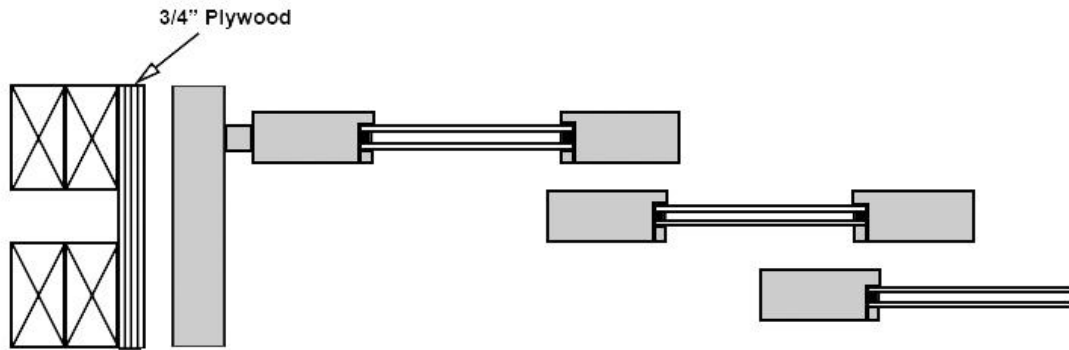
- Panels supplied unfinished should have the finish applied as soon as possible, and within 24 hours of installation into jamb frame.
- Panels should be placed in an area completely protected from the elements or other damage until needed.
- DO NOT** install hardware or handles on panels at this point. Damage can occur to these parts during installation or storage.
- DO NOT** actuate the hardware mechanisms. The hardware is shipped in the correct position for installation from the factory. Actuating the hardware prior to install can lead to improper installation and hardware damage.

3. Opening Preparation- Head and Sides

- The side and head rough framing should be at least as wide as the supplied jamb frame.
- An ideal installation would provide a continuous plane of $\frac{3}{4}$ " or greater thick plywood the width of the jamb to side studs and header securely fastened to accommodate installation hardware. Installation can be completed without this layer if the side studs and header align centered over the fastening locations.



Ideal Side Opening Preparation



- A proper rough opening should provide $\frac{1}{2}$ " of unobstructed clearance on both sides and top of the unit.
- The head track of a lift and slide unit does not need special reinforcement or additional structural support, as the track only provides a guide to the panels. The weight of the panels are not hung or supported by this track.

4. Opening Preparation- Sill

- The sill preparation of these units is the most important area most critical to proper unit performance. Great care should be taken to make sure the subfloor or masonry opening is completely smooth, flat, and level. The removal or addition of material or shimming may be required to obtain the proper surface for installation.
- The surface should provide full support along the entire length and width of the sill.
- Consideration should be made at this point as to the final intended height of the sill relative to the finished floor surface. Removal of material or further shimming may be needed to achieve your desired height.
- Any and all shimming done on the sill should provide full support to the entire bottom. Spaces in sill shimming will result in poor performance when completed.
- If layered shimming is used, be sure to seal between layers with caulk to prevent water infiltration between shim layers.
- A completed sill opening will be a single smooth, flat, level plane on which the jamb will rest.

5. Jamb Installation

WARNING- UV resistant exterior sealant must be used and be compatible with all materials it comes in contact with. Follow sealant manufacturer's instructions regarding surface cleaning, preparation, application, and temperature requirements when applying sealant. Failure to do so may result in water infiltration, property or product damage.

Metal fasteners and other hardware components may corrode when exposed to preservative treated or fire retardant lumber. Failure to use appropriate materials for installation may cause component failure resulting in injury, property or product damage.

DO NOT install wood products directly in contact with masonry or concrete openings. Apply a proper finish or barrier (i.e. tar paper or ice/ water membrane) between all wood and masonry/ concrete surfaces. Failure to do so may result in water infiltration, property or product damage.

SILL

- Apply the adhesive backed rubber membrane to the sill opening allowing approximately 4" to wrap around and down onto the exterior sheeting to prevent water infiltration. The rubber membrane should also extend approximately 4" up the side of the opening and wrap to the exterior just as the bottom.
*If a Sill Pan is desired, one can be fabricated from sheet metal and installed as necessary.
- Apply 3 heavy beads of caulk (1/2" is sufficient) along the length of the sill opening. With one bead near the interior edge, one bead on the exterior edge, and one bead down the center.
- At the ends of the sill opening, apply a patch of caulk the entire depth of the sill at least 3 inches wide.
- Lift jamb into opening. Center the unit in opening side to side. Secure temporarily with clamps to prevent from falling out of opening.
- Double check sill level and flatness. A string line can be used to verify sill track straightness.
- Use provided 2 1/2" stainless steel screws to secure jamb sill into opening through holes with missing screws in bottom track. If fastening is desired in more locations, other existing track screws can be replaced with longer stainless screws. On units with excessively wide jambs, multiple tracks will be missing screws to be secured to prevent cupping. Be sure that at a minimum all holes left open by the factory are utilized for securing the sill.

SIDE JAMB

- Starting on one side, plumb and shim the side jamb. Plumb should be checked both side to side and front to back on the side jamb. Shims can be placed behind the bent clips with the larger leg and tacked in to temporarily hold the side in place.
- Place shims above or below positions where the straight clips extend out.
- **DO NOT** fully secure the side jamb until the unit is checked for square.
- Check for square by measuring diagonally from the upper left corner to the lower right corner. Then measure from the lower left corner to the upper right corner. When compared, these two measurements should vary by no more than 1/8". Shimming the top over left or right will adjust if out of square.
- Once the entire side is plumb, Bend the straight clips to lay flat on the exterior framing or masonry. Fasten using a minimum of a #10 x 1 screw.
- Repeat this on the interior side as well.

WARNING- DO NOT fasten the jamb through any factory applied finish that will have contact with the elements. Installing fasteners through a factory finish will **VOID** any warranty written or implied on the finish and life of the unit.

HEAD

The head jamb does not support the weight of the panels. It only serves as a guide for the panel tops. No extra stiffing, beams, or support needs to be installed to carry any extra load other than that specified by your local building code.

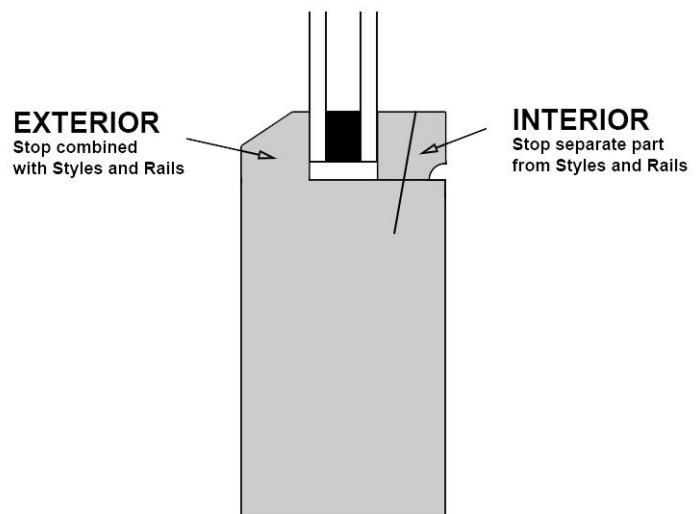
- Use a level and string line to check the level and straightness of the head jamb. **DO NOT** allow for any deflection greater than 1/8" in any direction; forward, back, up, or down. Deflection greater than 1/8" will result in poor operation of the unit.
- Shim at locations where the head track has open pre-drilled holes.
- Fasten through the track and shims using the provided 2 ½" stainless steel screws.
- If more shim and screw locations are necessary to keep within straightness tolerances, more track screws may be removed and replaced with longer stainless steel screws being sure to place shims at these locations as well.

SEALING- SIDES AND HEAD

- Seal the voids between the jamb and opening on the head and sides by inserting backer rod or other insulation. **DO NOT** use expanding foam.
- On the exterior side, cover the void against the backer with silicone to seal the jamb to the opening.

6. Panel Installation

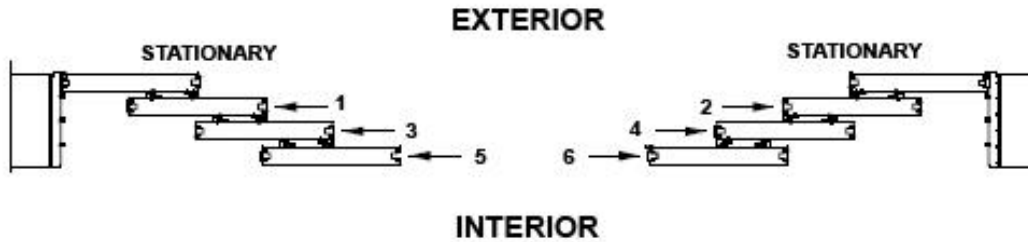
- All panels arrive from the factory with the hardware actuated to an installation position. **DO NOT** action the mechanism until told to do so by this instruction.
- Units that utilize stationary panels on either or both sides will be factory installed unless special circumstances exist. In this case, install per your architect's design or contact Parrett directly for more information.
- Remove the upper track guides located in the ends of the top groove on the panels. Set these aside being careful not to lose the fastening hardware.
- Identify the interior from the exterior of the panels. On standard panels this can be identified by locating the glass or panel stops. The stop on the exterior side of the panel will **NOT** be a separate part from the styles and rails of the panel. The interior stop will be a separate part. On custom configurations other means of identification may be necessary such as; exterior color/ finish, operation direction/ configuration, metal cladding, or wood species when species differs from interior to exterior.
- Panels are designed to be installed in a specific configuration. From the interior panels in multiple panel configurations are numbered per track from left to right from



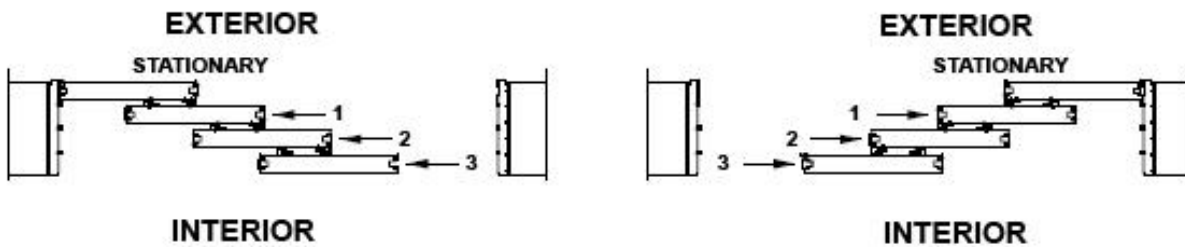


the exterior track in, with the left starting at “1”. From this point on all “left” and “right” instructions are to be interpreted from the interior looking out.

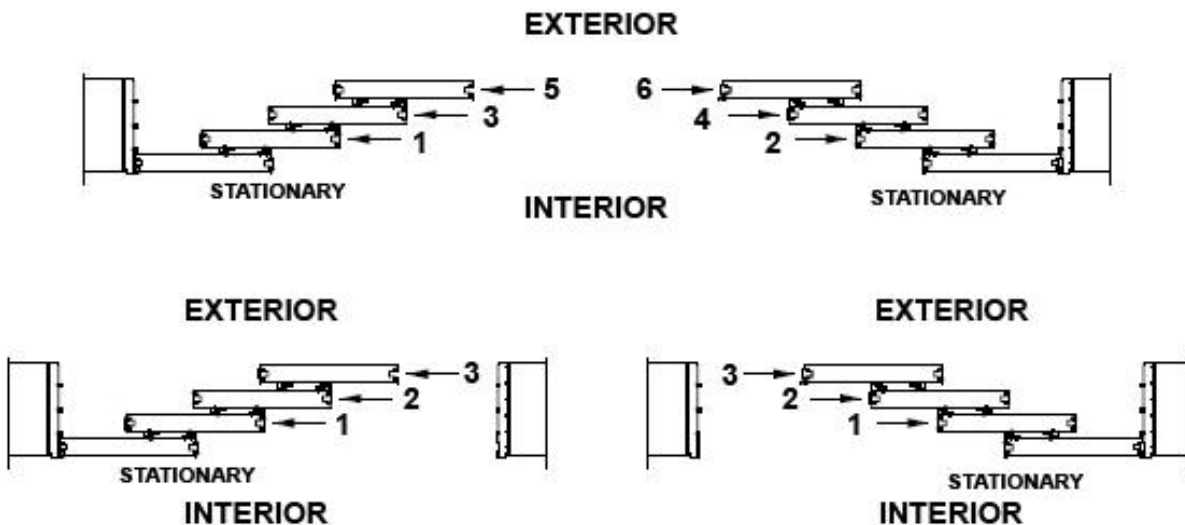
EX. On an 8 panel unit, the first track to the exterior would contain panels 1 and 2, left and right respectively. The middle track would contain panels 3 and 4. And the interior most track would contain panels 7 and 8.



- Units with a stationary panel only on one side are numbered in a similar fashion. These units will only have one panel per track and will be numbered starting with “1” counting inward from the exterior. This numbering is the same regardless of the location of the stationary panel on either the left or right side.

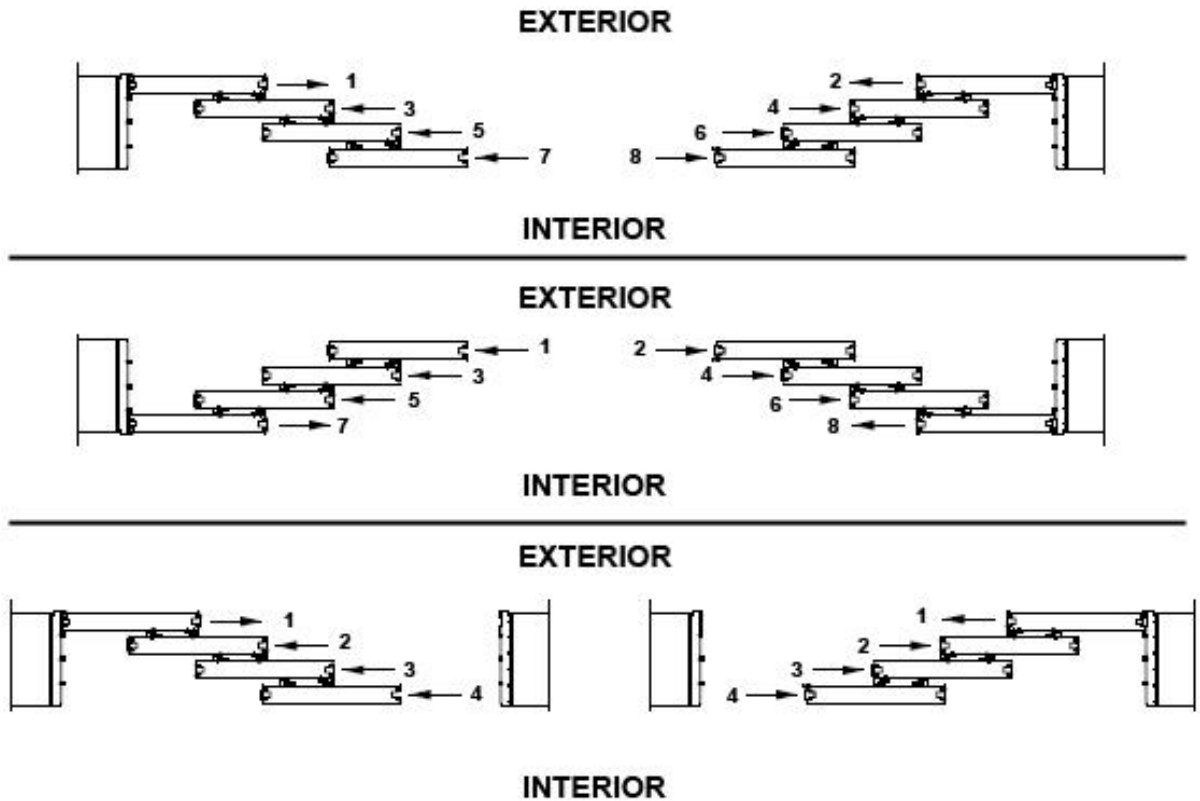


- Units with stationary panels on the interior most track will need to be assembled in a reverse order than described here. Installation is the same, but the first panel to be installed is on the interior most track working outward with panels.





•Units may also be in a configuration where there are no stationary panels. There are many configuration options available, but panel installation order will generally be similar on all units. These units are numbered as in the first instance with panel 1 on the exterior most track.



NOTE- All units have panels factory pre-fitted and adjusted. The hardware does not provide for any adjustment in the field or during installation. Poor operation conditions are a result of improper jamb or panel installation. Double check installed jambs for plumb, level, flat, and straightness. Extra shimming may be needed to keep jambs within tolerance. Also misalignment of panel rollers onto track, or non installation of top guides can cause improper operation. If after verification of these key points you still find the unit operation unsatisfactory please call for assistance at **(800) 541-9527** from 8:00 a.m. to 5:00 p.m. Central time or e-mail info@parrettwindows.com

UNITS WITH STATIONARY PANELS ON TWO SIDES

NOTE- Units with stationary panels on the interior most track will need to be assembled in a reverse order than described here. Installation is the same, but the first panel to be installed is on the interior most track working outward with the panels.

- To install the first panel locate panel 1. From the interior, approach the jamb aligning the center of panel 1 with the edge of the stationary panel. Be sure that the exterior of the panel is facing to the exterior.
- Insert the groove in the top of panel 1 over the track directly next to the stationary panel.
- Lift the panel until it stops and slide the bottom of the panel over the bottom corresponding track. Set the panel down.

- Reinstall the upper track guides into the top groove of the track. Note the difference in the two required parts. The guide with a rubber bumper and 3 hole fastening pattern will be installed on the end of the top groove toward the jamb. The track guide without a bumper and single fastener mounting will be located on the opposite end of the groove toward the center of the jamb opening.

NOTE- These guides must be reinstalled for proper performance of the units. Non-installation of these parts can result in panel derailment, sloppy operation, and poor weather sealing.

- At this point the panel will not slide on the rollers because the hardware is in the locked position. Insert the handle in the upward position and rotate it 180 degrees downward. This action will lift the panel onto the rollers. Slide the panel side to side a few times to verify smooth operation, the panel rollers are in fact seated on the track, and there is no misalignment.

- Slide the panel to align with the stationary panel. **DO NOT** lower/ lock the panel.

- Install panel 2 on the other side in the same manner.

- The top rail guides on panel 2 will be on opposite ends compared to panel 1. The guide with the bumper will be located on the right end towards the right stationary panel.

- All panels with operation left as panel 1 will have the bumper guides installed on the left end of the groove. All panels with operation right as panel 2 will be a mirror of the panels on the left and have the bumpers on the right end of the top groove.

- Slide the panel to align with the stationary panel. **DO NOT** lower/ lock the panel.

- Locate panel 3. Approach the jamb with the panel. Approximately align the center of panel 3 with the edge of panel 1. Insert the top of panel 3 over the next track inward from the track the prior panels were installed on.

- Install track guides as necessary.

- Panel 3 is in the downward and locked position. Actuate the hardware to lift the panel and slide it to the jamb to align with the other panels. **DO NOT** lower/ lock the panel.

- Repeat installation with panel 4 as panel 3 but this time centering panel 4 on the edge of panel 2.

- Repeat installation with the remainder of the panels as with panels 3 and 4 working your way to the interior most track.

- Upon a correct panel installation, when pulled toward the center, the other panels should also follow. If the panels are not operating in a chain-like fashion, remove the panels to the section that is not following properly and attempt to reinstall. Be sure the correct panel number is in the correct position, the alignment is centered on the prior panel before fitting on the track, and that the rollers are properly seated and rolling on the track.

- Operate the units several times to ensure proper operation.

- Install all loose parts and hardware.

UNITS WITH STATIONARY PANEL ON ONE SIDE

NOTE- Units with stationary panels on the interior most track will need to be assembled in a reverse order than described here. Installation is the same, but the first panel to be installed is on the interior most track working outward with panels.

- To install the first panel locate panel 1. From the interior, approach the jamb aligning the center of panel 1 with the edge of the stationary panel. Be sure that the exterior of the panel is facing to the exterior.

- Insert the groove in the top of panel 1 over the track directly next to the stationary panel.

- Lift the panel until it stops and slide the bottom of the panel over the bottom outermost track. Set the panel down.
 - Reinstall the upper track guides into the top groove of the track. Note the difference in the two required parts. The guide with a rubber bumper and 3 hole fastening pattern will be installed on the end of the top groove toward the jamb. The track guide without a bumper and single fastener mounting will be located on the opposite end of the groove toward the center of the jamb opening.
- NOTE-** These guides must be reinstalled for proper performance of the units. Non-installation of these parts can result in panel derailment, sloppy operation, and poor weather sealing.
- At this point the panel will not slide on the rollers because the hardware is in the locked position. Insert the handle in the upward position and rotate it 180 degrees downward. This action will lift the panel onto the rollers. Slide the panel side to side a few times to verify smooth operation, the panel rollers are in fact seated on the track, and there is no misalignment.
 - Slide the panel to align with the stationary panel. **DO NOT** lower/ lock the panel.
 - Locate panel 2. Approach the jamb with the panel. Approximately align the center of panel 2 with the edge of panel 1 just as you did installing panel 1. Insert the top of panel 2 over the next track from the track the prior panel was installed.
 - Lift the panel until it stops and place the bottom of the panel over the corresponding lower track.
 - Install top track guides as necessary with bumper guides in the groove on the end nearest the stationary panel.
 - Panel 2 is in the downward and locked position. Actuate the hardware to lift the panel and slide it to the jamb to align with the other panels. **DO NOT** lower/ lock the panel.
 - Repeat installation with the remainder of the panels as with panels 2 working your way to the interior one track at a time.
 - Pull the last panel to the opposite side of the jamb. Upon a correct panel installation, when pulled toward the center, the other panels should also follow. If the panels are not operating in a chain-like fashion, remove the panels to the section that is not following properly and attempt to reinstall. Be sure the correct panel number is in the correct position, the alignment is centered on the prior panel's edge before fitting on the track, and that the rollers are properly seated and rolling on the track.
 - Operate the units several times to ensure proper operation.
 - Install all hardware and any parts ordered loose.

UNITS WITHOUT STATIONARY PANELS

- To install panels on units without any stationary panels you need to first identify the panel configuration for the unit.
- Locate panel 1 and find its exterior side.
- Identify the interior from the exterior of the panels. On standard panels this can be identified by locating the glass or panel stops. The stop on the exterior side of the panel will NOT be a separate part from the styles and rails of the panel. The interior stop will be a separate part. On custom configurations other means of identification may be necessary such as; exterior color/ finish, operation direction/ configuration, metal cladding, or wood species when species differs from interior to exterior.
- Identify and take note of the position of the seal interlock on panel 1. This is a part holding a seal applied to one vertical style of the panel on the exterior of the panel. The location of this part will determine which direction the unit operates and where to start the installation.

NOTE- The panels on the interior most and exterior most tracks will have only one interlock on one face of the panels. All other panels will have two interlocks; one located on the exterior face and one located on the interior face.

- Approach the opening with panel 1 at approximately the center of the exterior most track. Make sure to have the exterior of the panel to the exterior of the opening.
- Insert the groove in the top of panel 1 over the exterior most track.
- Lift the panel until it stops and slide the bottom of the panel over the bottom corresponding track. Set the panel down.
- Reinstall the upper track guides into the top groove of the track. Note the difference in the two required parts. The guide with a rubber bumper and 3 hole fastening pattern will be installed on the end of the top groove toward the panel style with the interlock. The track guide without a bumper and single fastener mounting will be located on the opposite end of the groove.

NOTE- These guides must be reinstalled for proper performance of the units. Non-installation of these parts can result in panel derailment, sloppy operation, and poor weather sealing.

- At this point the panel will not slide on the rollers because the hardware is in the locked position. Insert the handle in the upward position and rotate it 180 degrees downward. This action will lift the panel onto the rollers. Slide the panel side to side a few times to verify smooth operation, the panel rollers are in fact seated on the track, and there is no misalignment.
- Slide the panel to the direction of the jamb side with the locking bolts applied. On units with panels going in both directions, this direction for panel 1 will always be to the left even in the cased where no locking bolts align with the interior most track. On some units with a single panel per track, panel 1 may be on the right side.
- If **locking bolts** exist **DO** lower/ lock the hardware of panel 1 at this point applied and aligned with the panel.
- If **no locking bolts** exist, **DO NOT** lower/ lock the hardware of panel 1 at this point. If you have already, raise the panel back onto the rollers so it is free sliding. Slide this panel to the center of the opening instead of to the side.
- Locate panel 2.

- For units operating in both directions **without locking bolts** aligned with the exterior track, insert panel 2 right of panel 1 on the same track as panel 1 in the same manner. Slide towards panel 1 in the center of the opening. Keep the panels approximately one panel width apart in the center of the opening. Do not lower/ lock either panel at this point.

- Install panel 3 as per following instructions for single panel per track, aligning centered with the edge of panel 1. Panels on this side will be installed working from the center to the jamb.
- Install panel 4 as per following instructions for single panel per track, aligning centered with the edge of panel 2. Panels on this side will be installed working from the center to the jamb.

- For units operating in both directions **with locking bolts** aligned with the exterior track, insert panel 2 right of panel 1 on the same track as panel 1 in the same manner. Slide towards the opposite side of the jamb. **DO** lower/ lock the panel.

- Install panel 3 as per following instructions for single panel per track, aligning centered with the edge of panel 1. Panels on this side will be installed working from the jamb to the center.

- Install panel 4 as per following instructions for single panel per track, aligning centered with the edge of panel 2. Panels on this side will be installed working from the jamb to the center.
 - For units with a **single panel** per track. Approach panel 1 from the interior with panel 2, approximately align the center of panel 2 with the edge of panel 1.
 - Insert the groove in the top of panel 2 over the track closest to panel 1.
 - Lift the panel until it stops and slide the bottom of the panel over the bottom corresponding track. Set the panel down.
 - Reinstall the upper track guides into the top groove of the track. Note the difference in the two required parts. The guide with a rubber bumper and 3 hole fastening pattern will be installed on the end of the top groove away from the panel style containing the handle hardware. The track guide without a bumper and single fastener mounting will be located on the opposite end of the groove.
- NOTE-** These guides must be reinstalled for proper performance of the units. Non-installation of these parts can result in panel derailment, sloppy operation, and poor weather sealing.
- At this point the panel will not slide on the rollers because the hardware is in the locked position. Insert the handle in the upward position and rotate it 180 degrees downward. This action will lift the panel onto the rollers. Slide the panel side to side a few times to verify smooth operation, the panel rollers are in fact seated on the track, and there is no misalignment.
 - Slide the panel to align with the prior installed panel. **DO NOT** lower/ lock the panel.
- Continue to install panels as necessary until all panels are installed.
 - Pull the last panel to the opposite side of the jamb. Upon a correct panel installation, when pulled toward the center, the other panels should also follow. If the panels are not operating in a chain-like fashion, remove the panels to the section that is not following properly and attempt to reinstall. Be sure the correct panel number is in the correct position, the alignment is centered on the prior panel's edge before fitting on the track, and that the rollers are properly seated and rolling on the track.
 - Units operating in both directions will be pulled from each side to meet in the center.
 - Operate the units several times to ensure proper operation.
 - Install all loose parts and hardware.

7. Finishing Installation

- When applying trim and casing make sure all fasteners are of proper length to prevent interference with the track, rollers, or seals.
- All exterior trim, casing, wall, sheeting, or other finishing materials should be properly caulked with a UV safe sealant exterior sealant.

WARNING- UV resistant exterior sealant must be used and be compatible with all materials it comes in contact with. Follow sealant manufacturer's instructions regarding surface cleaning, preparation, application, and temperature requirements when applying sealant. Failure to do so may result in water infiltration, property or product damage.

•Refer to *Parrett's Care and Maintenance Instructions* for all cleaning and maintenance. For finishing instructions refer to *Parrett's Homeowner's Manual* at www.parrettwindows.com or contact customer service at **(800) 541-9527**.

Parrett will not under any circumstances be responsible for installation, repainting, refinishing, or other similar activities necessary to completing any replacement. It is the customer's responsibility for installation, finishing, cleaning, maintenance, re-painting, refinishing, or other similar activities necessary to maintain the performance of each product.

Troubleshooting

NOTE- All units have panels factory pre-fitted and adjusted. The hardware does not provide for any adjustment in the field or during installation. Poor operation conditions are a result of improper jamb or panel installation. Double check installed jambs for plumb, level, flat, and straightness. Extra shimming may be needed to keep jambs within tolerance. Also misalignment of panel rollers onto track, or non installation of top guides can cause improper operation.

If after verification of these key points you still find the unit operation unsatisfactory please call for assistance at **(800) 541-9527** from 8:00 a.m. to 5:00 p.m. Central time or e-mail info@parrettwindows.com