Owner's Manual & Installation Instructions - Lift and Slide Systems

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This Owner's Manual contains directions on the installation, operation and maintenance of your Panda Window's & Door's Lift And Slide System(s), TS19, S85.S10,S14.S11,TS87,TS13.S12.S15. This set of instructions is to be used by the installer(s) during the installation process and needs to be kept by the system(s) Owner for reference and normal maintenance.

If replacement parts need to be ordered, the owner can you this manual and contact Panda Window's & Door's Directly for the parts needed. You can refer to Parts List included with this manual to insure a correct and easier ordering process. Questions & Concerns; Visit our web site or Contact the your sales representative for assistance.

*The system shown above is a TS19, Which is a thermally broken system. It is shown above with a full header track and side frames, but is typically built with a staggered header, side frames and bottom track. Please reassure your installation area and assure that you have ordered the correct configuration prior to installation.
null
## Lift and Slides Technical Data Per System:

### Lift and Slides Configuration and Color Options

- Panel sizes can be in excess of 137.5 sq. ft. (some up to 19 ft. wide and 20 ft. tall).
- Each panel weighs approximately 1000 lbs. per square foot depending on overall panel size.

### Lift and Slides Technical Data Per System:

#### Lift and Slides Configuration and Color Options

- Panoramic (with rail system):
  - Common Colors:
    - Cream
    - Tan
    - Camel
    - Grey
    - Black
    - Brown
    - Black Glazed

- Corner 45° and 90°:
  - Common Colors:
    - Grey
    - Black
    - Brown
    - Black Glazed

- Straight:
  - Common Colors:
    - Grey
    - Black
    - Brown
    - Black Glazed

*Note: These colors are available in the following 15 standard colors. These colors cover the most popular options, and are readily available at the manufacturer. All standard colors are certified AAMA 2016.01. All non-standard colors are made to order. For additional options, please contact the manufacturer.*

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**Drawings No:**

- Lift & Slide:
  - Lift & Slide Configuration and Color Options

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**System Testing and Information**

**Drawings No:**

- Lift & Slide:
  - Owner Manual & Install Instructions

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**Owner Manual & Install Instructions**

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**Title:** Lift & Slide Owner Manual & Install Instructions

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Always practice safety! Make sure to wear the right Personal Protection Equipment when working with power tools and Glazing. In accordance with State and Federal Safety Laws, this system is glazed with a Tempered safety glass and if it needs to be replaced for any reason, it should be replaced with the same time and size of glazing.

It will be the responsibility of the Owner, Builder, Installer or Sub Contractor which whom will install this Panda Product, to protect the System in its entirety during the installation process. Panda Windows and Doors, will not be responsible for damage which occurred the system while being installed.

At no time should any modifications be made to your system, this will Void any warranty on this system.

Please read these instructions in their entirety before starting install

Carpenters Level
Wrench or Rachet
Rubber Mallet
Tape Measure
Caulking Gun & Sealant
Self Leveling Epoxy
Power Drill

In accordance with State and Federal Safety Laws, this system is glazed with a Tempered safety glass and if it needs to be replaced for any reason, it should be replaced with the same time and size of glazing.

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At no time should any modifications be made to your system, this will Void any warranty on this system.
Panda Windows and Doors has spent countless hours on designing many different types of systems with specially designed panels. Above you will notice the wide selection of Lift and Slide panels. You will find systems that offer thermal control and still will offer the look that you desire. Each Panel profile has a wall thickness that will allow for the strength and security that you would look for in our systems.

### Lift and Slide Panel Selection / Types

Lift and Slide Glazing removal & Glazing Replacement:

**Steps to Replace Glazing: (Butted Rails)**
1. First you will need to lay panel down on table or something soft to allow the panel to remain un-damaged.
2. Then you will need to remove all glazing gaskets from the panel itself.
3. Finally you will need to remove the bottom rail from the panel by removing the screws anchoring the rail. Slide down and then you will be able to replace the glazing, follow these instructions in reverse to re-assemble the panel.

**Steps to Replace Glazing: (45° Rails)**
1. First you will need to lay panel down on table or something soft to allow the panel to remain un-damaged.
2. Then you will need to remove all glazing gaskets from the panel itself.
3. Finally you will need to remove all glazing clips. These are held in by compression and can be removed by a soft tap with a rubber mallet. Now you will be able to remove glazing, follow instruction in reverse to re-assemble.
Installation Step 1 - (Lift and Slide Systems):

First before checking the dimensions for your systems, Ensure that your opening is square and plumb. Then go use a tape measure and check the dimensions of the height, width and your dimension across your opening as shown in (figure 1) above.

After this step is complete then it will be time to dry fit your system to assure that it will fit in the opening per the dimensions that were given to your sales assistant at the time of ordering. Go ahead and take the Header track and and side frames into the opening. After those are in you should have at least 1/2" shim space on both ends. Once you have tested to assure the header and side frames fit, then if your system is Equipped with a bottom track, go ahead and place that in the opening as well. The bottom track is cut to the exact same size of your overall system width, Panda Window's & Door's does not recommend you to modify this system. These Lift and Slide systems are made to the order and are custom to the customer's specified's.

Any alterations made to this system by an unlicensed representative, will void the warranty...
Installation Step 3: System Bottom Track Installation

**Track Installation Step A:** Double check your trench depth and width with the actual bottom track provided. Your trench depth should have an extra 1/2" shim space provided below the track system setup. *(Depth varies due to different track types)*

**Track Installation Step B:** Insert track into floor depression to assure the sizing is correct (make sure the track is the same size all the way from end to end from edge of slab). Also check the track height to assure that you can still achieve the 3/16" lip required.

**Track Installation Step C:** Use the track and the provided pilot holes in the track arms as a guides and drill holes for anchor bolts (holes must be 3/8" dia. and 1" Deep) into the concrete trench to make ready for installation of your anchors.

**Track Installation Step D:** Remove track and drop your anchors receivers into there holes. *(1/4" x 20 Drop In-Anchors), next you will have to cut your threaded 1/4" rod to be inserted into your inserted anchors.*

**Track Installation Step E:** Insert your precut 1/4" threaded rod into the installed anchor receivers and then attach flat washer and nut, adjust height to achieve 3/16" from finish floor. Reinstall track after complete

**Track Installation Step F:** Adjust and tighten the nuts shown above to anchor the track in place, assure that the system is level as your are tightening the track down.

**Track Installation Step H:** Once track is placed on to leveled and the anchor bolts have been secured into there proper place and height. Then your will have to use a level (Laser Level recommended) to assure the track is completely leveled. *(See Below for finishing)*

**Basic Tools Required For These Steps:**

- Carpenters Level
- Wrench/Ratchet
- Power Drill
- Caulking Gun & Sealant
- Epoxy
- Tape Measure

Please read these instructions in their entirety before starting Bottom Track install

The anchorage and leveling of the bottom track is highly important to ensure proper operation and life span of your Lift and Slide System(s). Double check all bottom track and upper tracks to ensure proper anchorage and proper leveling, that way the panels slide as they were designed to do. Please keep in mind that pilot holes are already pre-drilled in the headers, side frames and bottom tracks. It is highly important that the your rough opening and substrate that the system track will be installed to is level and clean and free of debris. Do not drill any new support holes into the systems tracks. Be sure that you use proper size anchorage bolts, to allow clearance for the Lift and slide wheels to glide freely throughout the Systems tracks. *(4" Installation screws will be provided with this system:* Other anchorage bolts will be customers expense)

When installing a system equipped with a Panda certified bottom track, it is most important to insure proper installation and sealing of the bottom track. Assure the trench that the bottom track will be set into, is clean and free of any sort of debris. Dry fit your bottom track to assure proper trench and track size. Then fill your trench with the proper amount of self leveling epoxy or equivalent. Once the track is set into the trench you will want to install the proper track screws *(Which are provided with the System)*.

Note: Different anchors may be required depending on substrate.

Bottom Track installation With Drain Ports

Tracks with drainage ports are available, Make sure when cutting your slab or preparing your substrate that you account for the routing of the drainage tubes. *(Drain Ports are pre-installed at factory, choose port type when ordering)*

Bottom Track Types & Drain Tube Types

- "Straight Drain Port and tube"
- "90" Drain Port and tube"
Installation Step 5A: System Side Frame Installation

Side Frame Note:
Header can be attached to side frames and tilted into opening if install choses to install in this manner.

Basic Tools Required For These Steps:
- Carpenters Level
- Power/Impact Drill
- Caulking Gun & Sealant
- Epoxy

Installation Step 5B: At Header Track

Installation Step 5C: At Bottom Track

Installation Step 5D: Side Frame Sealing At bottom Track

Please read these instructions in their entirety before starting Header Install

Panda Window's And Door's is not responsible for the support structure which the system will be attached to. The structure that the system will be attached to, should be specified by a licensed engineer which is not in Panda's Window's and Door's Scope of work.

Please read these instructions in their entirety before installing bottom Track

Once the previous steps are completed, you will want to apply a consistent bead of construction sealant at each end of the track. Then you will set the side frames into the sealant and drill screw into each pilot hole provided. The screws for you side frame will be provided by Panda as well. Check to make sure the side frames and bottom tracks are level. (Laser Level recommended)

When installing the side frames, review the side frames that are included with your system, there are a few different types. Make sure that you are installing the right side frame in the correct location, install the frame using the anchor screws included. Apply a small bead of sealant around the track where the side frame will be installed. Then set the side frame into the bead of sealant and anchor the side frames to the structure.

Installation of Header & Side Frames

Basic Tools Required For These Steps:
- Carpenters Level
- Power/Impact Drill
- Caulking Gun & Sealant
- Epoxy

Please read before the installation of the Side Frames @ Bottom Tracks

When installing these system side frames, please assure that you have a good seal at the bottom and the top of the track before screwing them into place with provided anchor screws. Dry fit the side frames provided to assure that they fit to the dimensions that you provided to us at the time of ordering. If the bottom track is recessed, apply sealant to conrete at time of placement.

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Install Instructions

DRAWING NO:
Lift & Slide
Installation of Header & Side Frames
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Installation Step 6: Typical Lift and Slide Panel Installation For all Systems

Basic Tools Required For These Steps:
- Carpenters Level
- Tape Measure
- Power Drill

This Section Will Require Assistance

During the Installation of each panel, proper lifting and safety measure should be taken. That way the Ultra Panels, System and adjacent area are not subjected to any sort of damage. Also the person's installing the system are kept safe.

Please read these instructions entirety before installation of panels

Once the Header, Side frames and Bottom Track are installed, then it will be time for the installation of each panel. This is the part that Panda advises you to ask for assistance from a fellow coworker. Each one of these system panel's can way upwards of 300lbs and can be very difficult to maneuver. Also, when installing each panel you will need to assure that you are setting the panels wheel sets onto the lower track, otherwise the system will not operate correctly.

Each panel comes from the factory already tested to ensure proper operation of each panel and wheel mechanism. When installing the panel you will need to make sure that you insert the panels to where the panel interlocks will be on the proper sides of each other, (refer to diagram). If the panels are inserted to the were the interlocks are on the incorrect sides of the panels. The system will not operate correctly and may cause damage to the system if you try to operate.

Step A: Insert your first panel and either lock or screw to side jamb (To secure first panel in place)(Opt)

Step B: Insert your second panel and make sure that your interlocks overlap (that way the interlocks catch)

Step C: Insert your final panel and engage your handle by rotating 180° (Make sure your interlocks overlap)

Optional Handle Hardware:

- Please insure that the wheel mechanism is level and equal on the track

Mechanisms
- Handle Mechanism
- Wheel Mechanism

Power Drill

The slot in the upper panel allows the panel to slide into the upper track. Slot cover provided

These interlocks allow the panels to catch the next panel during operation. It also allows the panel to stay securely closed.

Lift and Slide Hardware is Specially Designed to go hand and hand with supplied optional handles. Other handle options would have to be approved by designed team to insure operation use.
Installation Step: System With Pocket Installation

Bottom track of Pocket: Follow typical bottom track install instructions, track runs depth of pocket

Header track of Pocket: Follow typical Header track install instructions, track runs depth of pocket

Basic Tools Required For These Steps:
- Carpenters Level
- Wrench/Ratchet
- Power Drill
- Caulking Gun & Sealant
- Epoxy
- Tape Measure

Please read these instructions in their entirety before starting Pocket system install

The installation of your pocketing system is similar to a normal system installation. But there are certain other steps and procedures that need to be followed. First when installing your bottom track, side frame and header you will follow the standard installation steps since there is no difference between these installations. If you have a bi-parting pocketing system you will have no side frames, instead you will have two (2) pocket board interlock setups for each side of the system. Follow the steps as if you were installing one (1) pocket. Steps for this type of installation is the same.

Pocketing systems can be setup many different configurations and needs to be determined during the design process. A normal install requires an extra five (5) inches added onto your panel length for determining your pocket depth. For your pocket width you will have to review back to your design drawings, since all systems pocket widths will vary. Also for a standard pocket install your handle will not recess into the pocket unless asked for at the time of ordering. Follow each step on this page for the installation of your pocket interlock setup and enjoy.

Installation Step: Pocket Installation Details

Track Installation Step A: After you follow the normal steps for the header and bottom track install. You will then want to insert your first pocket panel. This panel will have the pocket board combo piece already attached. Follow typical panel installation.

Track Installation Step B: Once your panels are installed correctly and as instructions specify, then you will want to install the exterior side interlock clip. This piece will anchor straight to your wall, and can be covered with a finish per adjacent wall.

Track Installation Step C: Finally, you will have to attach your pocket board to the rest of the system. Place the pocket board against the 2x4 triangle anchorage pieces, use provided #4 screws to attach. The Brushed gasket side goes to the interior wall side. This completes your pocket system install.

Pocket Board Parts: Above you will see all the parts that make-up the pocket board interlock combo for this system. Some Parts are pre-installed at factory.
**Instruction Step 7A: System Finishing**

* Install construction grade backer rod into the joint around the system to fill those caulk joints before applying sealant (Optional).

**Basic Tools Required For These Steps:**

- Caulking Gun & Sealant
- Sealant Backer Rod

Please read these instructions in their entirety before sealing your System

Once all of the steps are completed and your new systems is installed, It is time to properly seal your system. Panda Windows and Door's Recommends the use of a solvent release butyl rubber sealant or equal. (Sealant Recommendation: DAP DyanFlex 230)

**Regular Operation of This is system**

All the Lift and slide systems that Panda Window's and Door's have created are very simple and easy to operate. After the installation process is completed and the system is sealed in it's entirety, it will be time to test the system for first time.

First, You will want to unlock the system and open the system all the way. During this process, you will want to assure that the system open's with no rubbing and/or grinding. Simply rotate the installed handle and slide the system to the open position. The system should glide real easily along the installed bottom track. If there is any resistance, please remove the panels and assure that the system was installed properly. Level installation of this system is highly important to ensure proper normal operation. To lock the system, Simply slide end panel against side frame and rotate the handle, which will drop the panel and lock the panel to the side frame.
Final Installation Step: System Maintenance

Please read these instructions below for System Maintenance

Typical Area Maintenance:
Areas located within in normal weather areas are not subject to the salted water of coastal areas, but still require some maintenance to ensure a longer life for the system. There are still the harsh environments were you will have the cold and snow, which will take its toll on any products and materials over an extended period of time.

Follow these steps below to ensure a longer life span of your system:

1.) Inspect your system once a while and if you notice that the finish on your system has scratched, nicked or chipped. Please make sure that you contact your sales manager. That way you can see your options to get them fixed as soon as possible.

2.) At least every 6 months look over your system and clean debris from the bottom track and header track. That way you can ensure there is nothing blocking the systems wheels. As well, check the caulking and sealant to ensure the system is still sealed properly. If you need to replace the sealant, cut and remove old sealant and reapply.

3.) At least every 6 months you should go over your system and use Teflon spray to lubricate wheels and bearings of the system.

4.) Shifting of the building may make need to have your certified installer adjust the panels.

Glass Care:
Use a non-abrasive soft Terry Cloth and ammonia free cleaner on the glass as needed.

Costal Area Maintenance:
Areas that are located within a 2 mile radius of a coastal area, can be extremely corrosive. Any type of material or products that are located in this radius, tend to get corrosive sooner then your typical environment. That is why Maintenance once and while is recommended.

Follow these steps below to ensure a longer life span of your system:

1.) Inspect your system once a while and if you notice that the finish on your system has scratched, nicked or chipped. Please make sure that you contact your sales manager. That way you can see your options to get them fixed as soon as possible.

2.) At least every 6 months look over your system and clean debris from the bottom track and header track. That way you can ensure there is nothing blocking the systems wheels.

3.) Spray down your system with mild soap fresh water to clean and free any salted water or residue that remains on your system, at this same time you should use a Teflon spray to lubricate wheels and bearings of the system.

4.) Shifting of the building may make need to have your certified installer adjust the panels.