

Master Owner's Manual

Doors



LIPPERT
COMPONENTS®

User notice

The Table of Contents is an interactive field. Click on the desired section to be taken immediately to the corresponding page.

Master Owner's Manual

The Master Owner's Manual is intended to provide information on Lippert Components Inc.'s most widely-used products. Products described in the Master Owner's Manual may not be on every trailer. The trailer may also have products not included in this manual. All manual information is subject to change without notice. Revised editions will be available for free download at lci1.com/support. Manual information is considered factual until made obsolete by a revised version. Manual information may be distributed as a complete document only, unless Lippert Components provides explicit consent to distribute individual parts.

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F.A.S.T. REAR RAMP DOOR

DOORS

Introduction

The Force Assisted Spring Tension or F.A.S.T. Rear Ramp Door incorporates either a single or dual cinch latch mechanism for a tight ramp door seal. For information on the assembly or individual components of this product, please visit:

<https://support.lci1.com/ramp-doors>

NOTE: Images used in this document are for reference only when assembling, installing and/or operating this product. Actual appearance of provided and/or purchased parts and assemblies may differ.

Safety

Read and understand all instructions before installing or operating this product. Adhere to all safety labels.

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, including voiding of the LCI limited warranty

NOTE: Cables are not always shown in the images for clarity purposes.

NOTE: Some trailers are equipped with an optional adjustable cable system for the ramp door. Follow applicable tensioning bolt warning for use of the adjustable cable. The adjustable cable system allows for up to +/- 2.5" of adjustment in order to achieve a 90 degree angle for the ramp door while in patio mode.

WARNING

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

WARNING

Failure to follow instructions provided in this manual may result in death, serious personal injury and/or severe product and property damage, including voiding of the component warranty.

WARNING

The maximum weight for the F.A.S.T. (Force Assisted Spring Tension) Rear Ramp Door in ramp configuration is 3,000 lbs. The maximum weight for the F.A.S.T. Rear Ramp Door in patio configuration is 1,500 lbs. Exceeding the maximum weight ratings can cause death, serious injury or damage to the trailer. Do NOT allow the ramp door to free fall while being lowered into the horizontal position, as this could cause injury or damage to the trailer or door.

⚠ CAUTION

The “CAUTION” symbol above is a sign that a safety risk is involved and may cause personal injury and/or product or property damage if not safely adhered to and within the parameters set forth in this manual

⚠ CAUTION

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

⚠ CAUTION

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

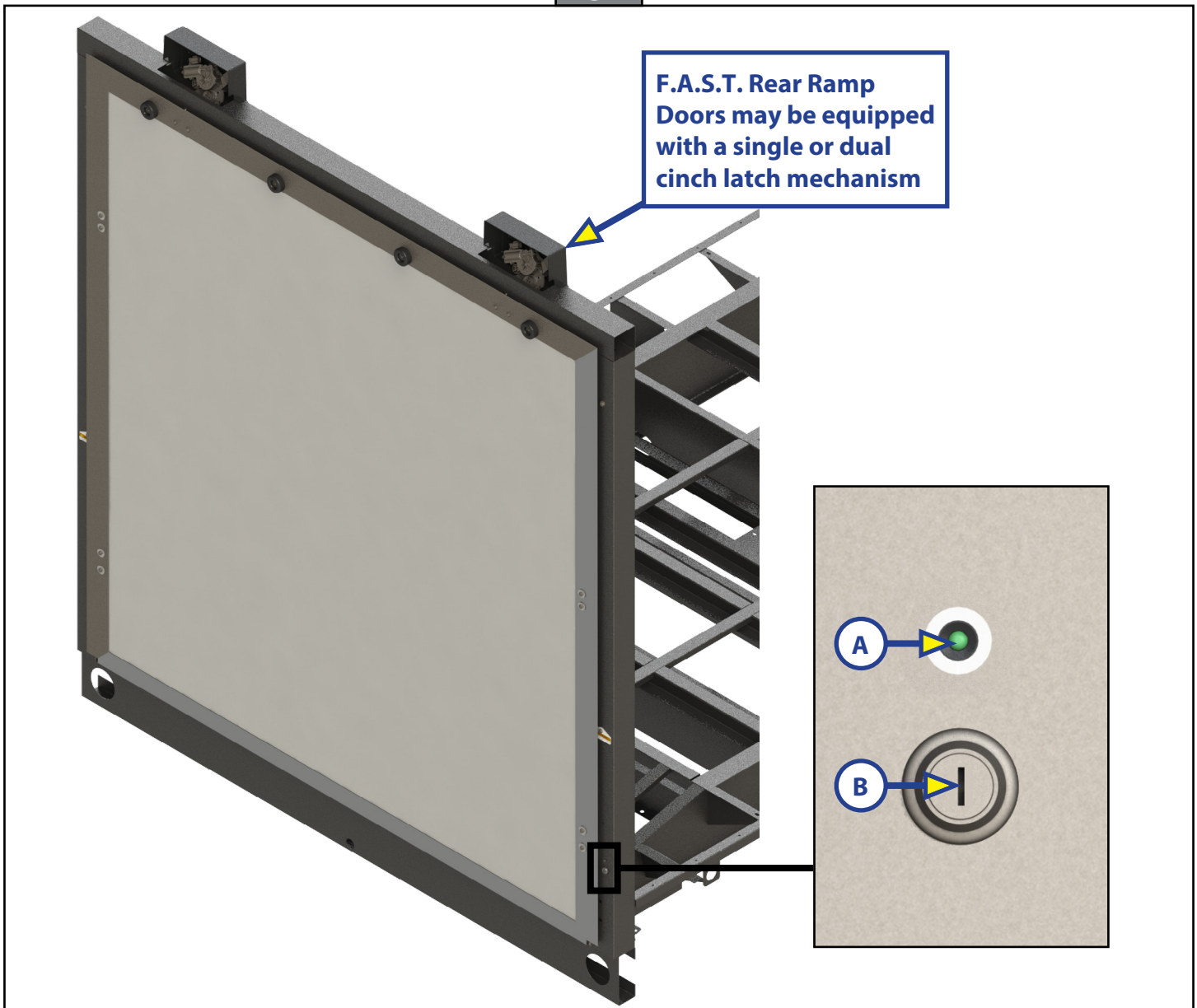
Operation

Stowed Position to Extended Position

Make sure the unit is connected to a power source.

1. Insert the key into the keyed access point located in the door jamb of the rear ramp door (Fig. 1B).

Fig. 1



2. Turn the lock mechanism to the right. The door will visibly pop open slightly, releasing pressure on the seals.
3. After the lock mechanisms have been released, the rear ramp door is ready to extend. Slowly extend the patio door. The F.A.S.T. technology actively counterbalances the weight of the door, allowing for one handed operation of the rear ramp door.

NOTE: If the door does not visibly open try the key again. If still does not open then refer to the manual override on the latch itself inside the trailer. If applicable, the controller is designed in such a way that if one latch is cinched and the other is not it will automatically release the cinched latch. The only way this will not happen is in the event that power is failing to reach the system properly.

4. Figure 2 depicts the F.A.S.T. Rear Ramp Door open. The key can now be removed.

Fig. 2



Extended Position to Stowed Position

NOTE: The keyed access does **NOT** need the key inserted into the lock to close the door. When closing the door, do **NOT** slam or force the door closed. Slowly close the door, allowing the cinch latch to function as intended. If the door is forced closed too quickly, the door will “bounce” away from the header and the cinch latch will not latch.

1. Slowly retract the rear ramp door, when the cinch latch pin (Fig. 3A) comes in contact with the cinch latch (Fig. 4A), positive pressure must be maintained until the cinch latch has cycled and engaged the locking mechanism.
2. If the cinch latch pin properly engages into the cinch latch, the LED light (Fig. 1A) will turn green.

NOTE: If applicable, If both cinch latches do not actuate, the controller will automatically reset the closed latch and will open the door slightly. Close the door again to get both latches to engage. If both latches engage the LED next to the key access will turn green.

Fig. 3

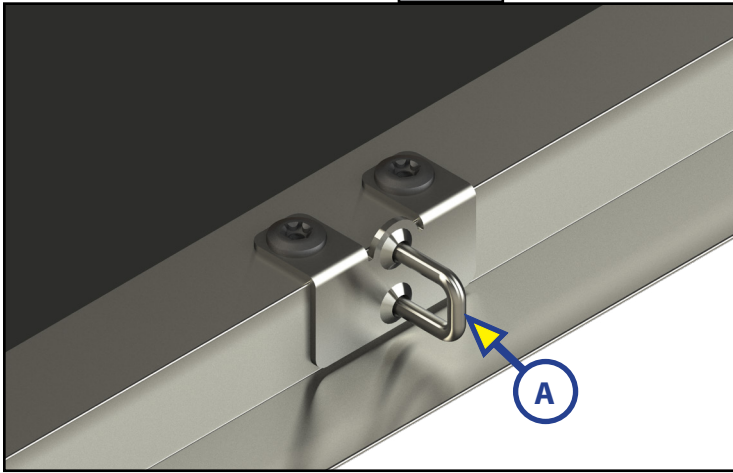
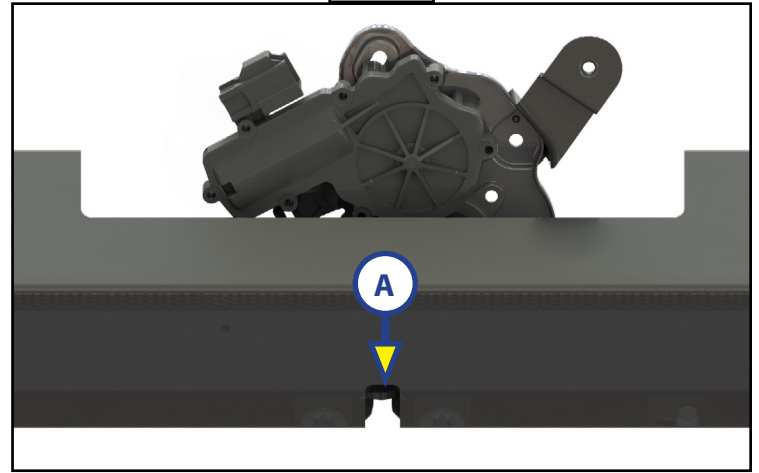


Fig. 4



Maintenance

To maintain smooth F.A.S.T. Rear Ramp Door operation, perform the following checks and maintenance.

1. During operation of the ramp door, make sure the safety cables are extending straight and not coming in contact with any obstructions.
2. Check to make sure that all cables are in good condition—that none of the cables are frayed or damaged. If cable replacement is needed, contact an OEM-authorized service center.
3. Check for loose fasteners. Tighten as needed.
4. Check the doorjamb location where the tension cables exit the columns for excessive wear.
5. Check the doorjamb for loose debris that would interfere with the function of the door.
6. Check the latch pin to make sure that it is not bent and is properly aligned with the cinch latch mechanism.
7. Inspect hinge points.
8. Lubricate all moving parts every 30 days with a good quality moisture and heat resistant penetrating grease.

NOTE: Silicone lubricants and WD-40® are not recommended for use. They evaporate and dry the mating surfaces, which leaves them vulnerable to the elements.

NOTE: Prior to long periods of storage, LCI recommends that all moving parts be lubricated to prevent possible corrosion.

SOUTHCO KEYLESS ENTRY DOOR LATCH

DOORS

1. Southco® Inc. door latches are used in Lippert's Keyless Entry Door systems.
2. All Southco units are black and the door handle is slightly curved, as opposed to the straight door handle on the Fastec.
3. Keypad (Fig. 1)
4. Keyfob (Fig. 2)
5. The Southco key code is a 3-digit code stamped onto the key (Fig. 3). The key handle has black molded plastic on the key handle and is rounded at the end. The Master Key bears no keycode.
6. If the key or key fob is lost, the keycode can be found on the latch plate (Fig. 4) by removing the 4 screws on the inside latch handle.
7. Southco can be contacted directly for key - 610-459-4000.
8. The receiver is mounted just below the entry door window.
9. The keypad and the keyfob are all matched directly to the receiver. A small black sticker with the Southco Inc. door latches are used in Lippert's Keyless Entry Door systems.
10. All Southco units are black and the door handle is slightly curved, as opposed to the straight door handle on the Fastec.
11. The keypad and the keyfob are all matched directly to the receiver. A small black sticker with the code number is affixed directly to each component. On the keypad, the sticker is located under the 9 - 0 button (Fig. 5). On the keyfob, the sticker is in the middle of the backside of the fob (Fig. 6). The matching code will be located on the receiver next to the antenna (Fig. 7).
12. The default entry code is 1-2-3-4.

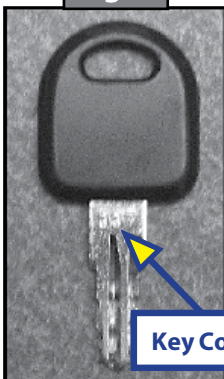
Fig. 1



Fig. 2

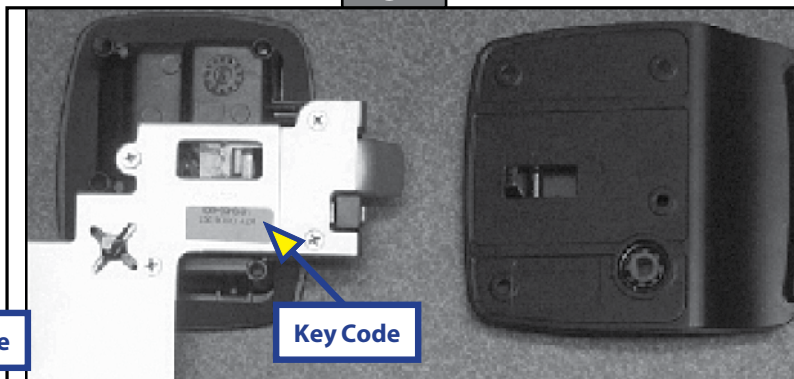


Fig. 3



Key Code

Fig. 4



Key Code

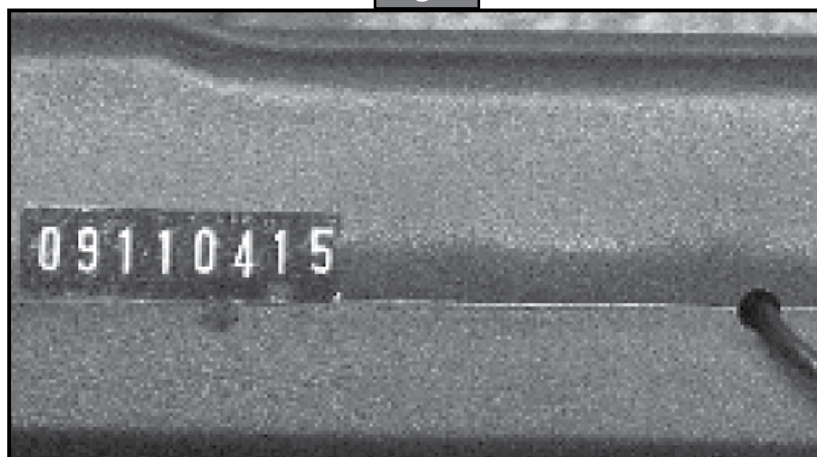
Fig. 5



Fig. 6



Fig. 7



Product Information

Features

Thank-you for purchasing the Bauer NE. We have developed the Bauer NE with the idea to increase your convenience and security. We are a family owned company with over 50 years of service in the locking hardware industry, and we are grateful for the opportunity to serve you. Please review and follow the Installation, Programming and Operating Instructions to ensure proper function.

- The first self-contained electronic RV latch with Capacitive Touch Technology.
- An integral touch pad to the latch which controls the dead bolt.
- Powered by 4 AA batteries.
- Retrofit-able in most RV entry doors and easy to install.
- Programmable with a 4-digit PIN number.
- The large buttons are easy to see and use.
- Proximity sensing, which illuminates the buttons.
- An Intelligent Keyless Entry System, which knows the position of the deadbolt and indicates low battery strength, as well as provides audible feedback to successful locking and unlocking functions.
- The key will always be able to operate the paddle or dead bolt lock in case the user forgets the code or the battery is dead.

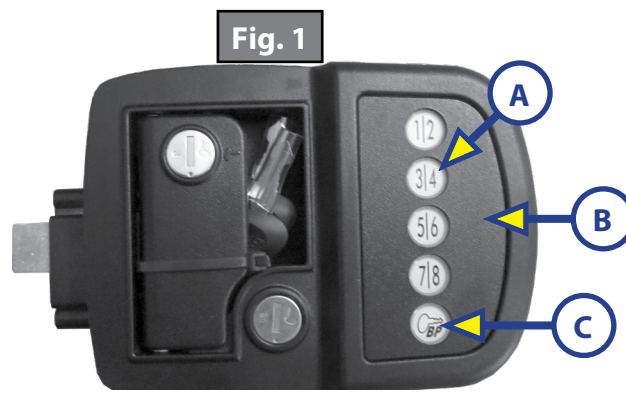
Operation

The Bauer NE is a 4 touch pad button programmable deadbolt lock (Fig. 1). The 4 buttons are labeled "1|2", "3|4", "5|6", "7|8". The button labeled "1|2" is the same button whether the number 1 or 2 is desired. Please note this handle uses Touch Technology. The buttons are activated by Touch and do not require pressing. Touch the button and lift finger from button for proper code entry. The following steps show how to operate the Bauer Lock:

1. Touch the area next to the buttons to "Wake Up" the lock (Fig. 1B).
2. The buttons will illuminate when the lock is "awake" and will be ready to accept the code.
3. The factory default code is 3, 7, 1, 5 and is followed by the Enter button (Fig. 1C).
4. Touch and hold the 3/4 button (Fig. 1A) and Enter button (Fig. 1C) for 2 seconds. The lock will beep 3 times to accept a new code. Enter a 4-digit code followed by the Enter button (Fig. 1C). The lock will beep 4 times to indicate a new code acceptance. This is now your new code.

NOTE: Enter your Personal Code upon installation of lock (Step 4) to prevent inadvertent programming.

NOTE: The touch pad only activates the Dead Bolt. The Paddle Lock is Master Keyed for Dealer and Service Center use. The Dead Bolt provides Maximum Security.



Calibration and Programming

Preset Factory Code

The Bauer NE has a factory set code of 3,7,1,5 followed by the Enter button. The button with the or the "*" is the Enter button, and is required to be touched after the code is entered. The factory code resets every time the batteries are removed for at least 10 seconds.

Programming New Code

To set a new code, touch and hold the "3|4" button and the Enter Buttons for 2 seconds. The Bauer NE will provide three short beeps, indicating it is ready to accept a new code. Enter the new 4 digit code followed by the "*". The Bauer NE will provide four short beeps to indicate new code acceptance. This new code will now activate the lock.

To reset the code, remove the batteries for at least 10 seconds. Re-install the batteries and follow the steps to Programming New Code.

Maintenance

- Install fresh batteries as necessary. The Bauer NE is designed to function for months of normal usage with fresh, high quality AA batteries. Battery life is highly dependent upon battery quality, usage, and environment (temperature).
- Make sure there are no obstructions in the door frame to prevent Dead Bolt extension.
- Do not wash with power washer or high pressure cleaner. The Bauer NE is designed to resist water intrusion to protect its electrical components from normal water encounter such as rain.
- The Bauer NE uses Touch Technology. The buttons are activated by touching not pressing.
- Remove batteries when storing or not using this lock for extended periods of time.

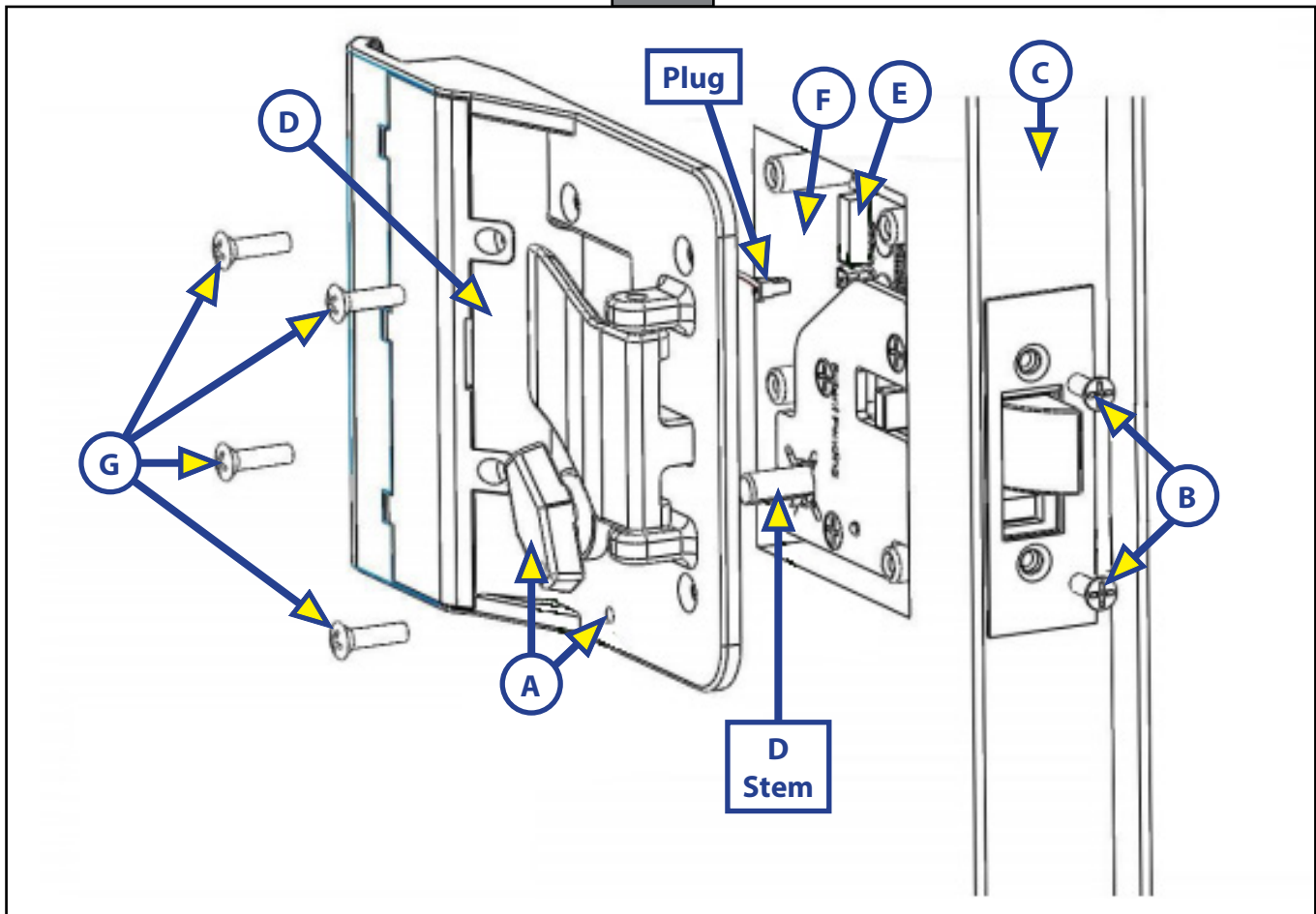
Installation

Bauer NE Installation

The following steps are graphically shown on the enclosed Bauer NE Installation schematic.

1. Remove old lock.
2. Clean cut-out. Remove any dirt, loose material, etc.
3. Install outside housing (the portion that includes the Touch Pad) with the dead bolt in the unlocked position (Fig. 2A).
4. Attach the (2) 8x32 screws (Fig. 2B) into the portion of the handle that has the Plunger and Dead Bolt. This is on the edge (Fig. 2C) of the door.
5. Plug wire from Inside Plate Assembly (Fig. 2D) into the receptacle (Fig. 2E) on the housing. Make sure to align the tab on the plug properly with the slot on the receptacle. The plug should make a slight click when properly engaged.
6. Tuck Battery Wires into pocket (Fig. 2F) next to Stamped Steel Plate. Do not allow Battery Wires to get between Inside Plate Assembly and Stamped Steel Plate, as it will cause the motor to bind.
7. Align the Dead Bolt Knob in the unlocked position. The Red Dots on the Dead Bolt Knob and the Inside Plate Assembly should be aligned to indicate the unlocked position of the Dead Bolt. Slide Dead Bolt Knob over D-Stem and align the 4 screw bosses on the housing with the attaching holes on the Inside Plate Assembly. When Inside Plate Assembly is in position with Housing, install the (4) 8x32 Screws. Secure but do not over tighten screws (Fig. 2G).

Fig. 2



Battery Installation

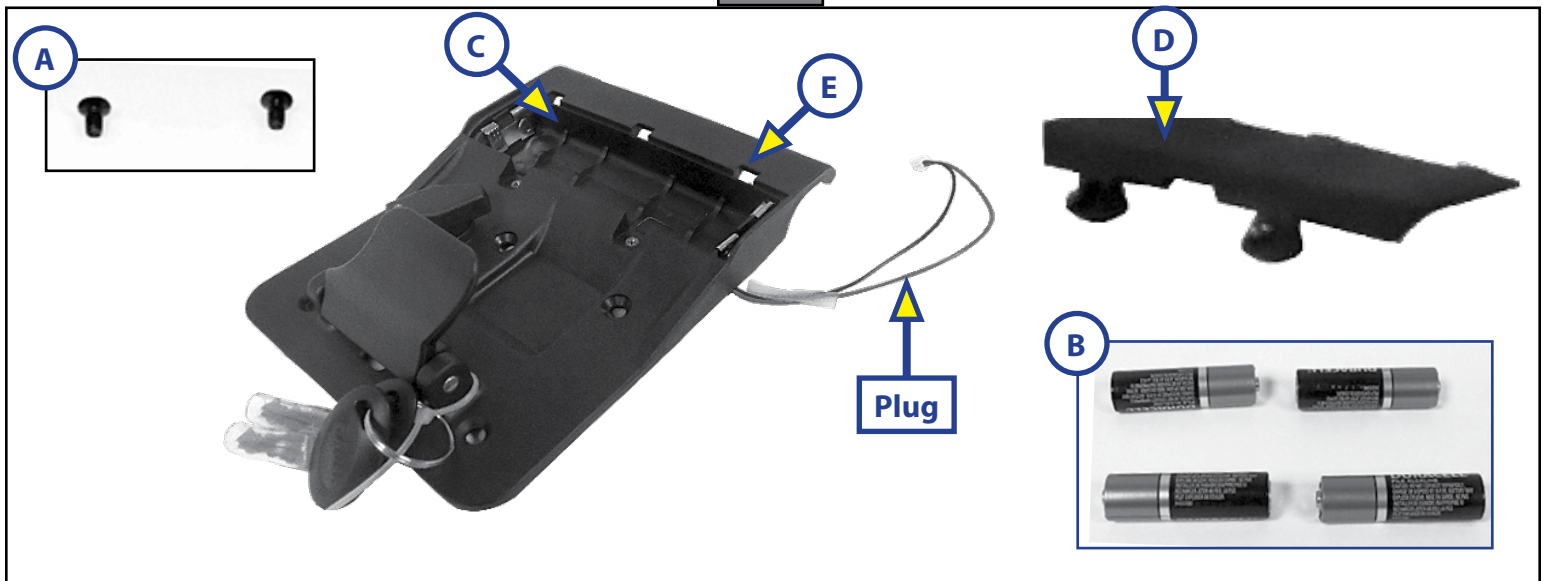
The Bauer NE uses 4 AA batteries for operation. We do not recommend zinc carbon batteries for this application. Batteries not included.

NOTE: Fresh batteries should be installed as necessary. Battery Life is highly dependent upon battery quality, usage, and environment (temperature). Remove batteries if the lock will not be used for extended periods of time.

The following steps are shown on the enclosed Battery Installation diagram:

1. Remove (2) 4x40 screws (Fig. 3A) from Battery Compartment Lid. These screws are very small so please take care in removal and installation. A magnetic tip #0 point Phillips Screwdriver is recommended.
2. Install the AA batteries (Fig. 3B) in accordance with the orientation shown in the Battery Compartment (Fig. 3C). The batteries will fit tightly.
3. Install Battery Compartment Lid (Fig. 3D) by aligning the (3) tabs on the lid with the (3) slots (Fig. 3E) on the Inside Plate Assembly. These tabs act as a hinge for closing the Battery Compartment Lid.
4. Install the (2) 4x40 screws (Fig. 3A) back to attach the Battery Compartment Lid to the Inside Plate Assembly.

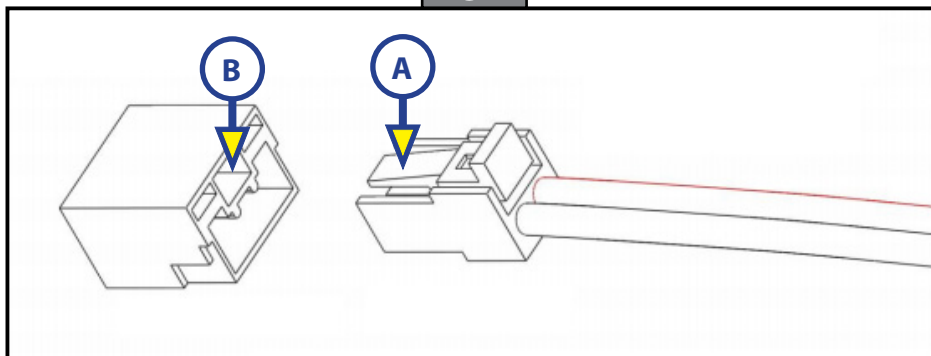
Fig. 3



Battery Plug Instructions

The following image shows a detailed view of the plug and receptacle for plugging the inside plate assembly into the receptacle on the Bauer housing.

Fig. 4



1. Align tab (Fig. 4A) with small, square slot in receptacle (Fig. 4B).
2. With plug aligned, insert into receptacle until a click is heard.

Troubleshooting

NOTE: If the problem is not found on this list please call 1-866-682-2837 for assistance.

Problem	Possible Fixes
After installation, the touch pad does not work.	Batteries are dead or are not installed properly. Plug is not engaged properly.
Dead bolt not engaging into door frame.	Obstructions in the door frame.
Code is not working.	Remove batteries for 10 seconds then program a new code.
Inside paddle is not opening the latch.	Inside screws are not secured to the housing.
Buttons light but the dead bolt does not activate.	Replace the batteries.

Bauer NE Fault Logic

NOTE: The lock will cycle up to 10 more times once the low battery indication occurs. After this, the final electric function in a low battery condition will be unlock and not lock until the batteries have been replaced. Please note that if the deadbolt is in the locked position and the batteries die the deadbolt will remain locked. The key will always be able to activate the deadbolt lock.

Action	Bauer NE Response
Low Battery	1 long beep after the lock/unlock beeps
Ready to accept new code	3 short beeps
New code entered	4 short beeps
Wrong code entered	1 long beep
Dead bolt locks	2 short beeps
Dead bolt unlocks	2 short beeps
Dead bolt fails to lock	1 long beep
Dead bolt fails to unlock	1 long beep

Limited Warranty

Bauer's warranty is limited. At its sole discretion, Bauer may either replace or repair any defective parts. In no event shall Bauer have any liability to customer for paying incidental, special or consequential damages including (without limitation) damages resulting from personal or bodily injury or death or damages to, or loss of use of, any property. Notwithstanding any provision to the contrary, this limited warranty is made upon the express understanding that shall apply in connection with the sale of the product by Bauer and is in lieu of all other warranties (Express, implied or statutory) including the separate warranties of merchantability and fitness for a particular purpose or use.

RAMP DOOR PATIO KIT

DOORS

Introduction

Lippert Components Patio Railing Kits are designed to help make the ramp door a comfortable, additional living space. The self-storing design stays attached to ramp door at all times and provides additional entertaining space on the toy hauler ramp door. The easy to follow instructions in this manual will describe the process of setting up the Ramp Door Patio Kit.

⚠ WARNING

The maximum weight rating for the Ramp Door is 3,000 pounds. The maximum weight rating for the Party Deck is 1,500 pounds. Exceeding the maximum weight ratings can cause death, serious injury or damage to the unit. DO NOT allow the ramp door to fall while lowering into level position, as this could cause injury or damage to the unit or door.

⚠ CAUTION

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

⚠ WARNING

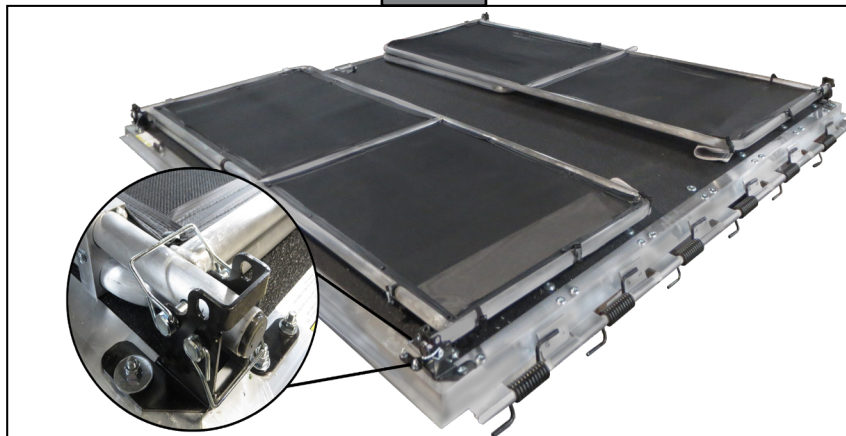
Do not remove set screw. Failure to follow this warning may result in death, serious personal injury and/or property damage. See owner's manual for instructions on use of adjustable cable.

NOTE: Cables are not always shown in the images for clarity purposes.

Operation

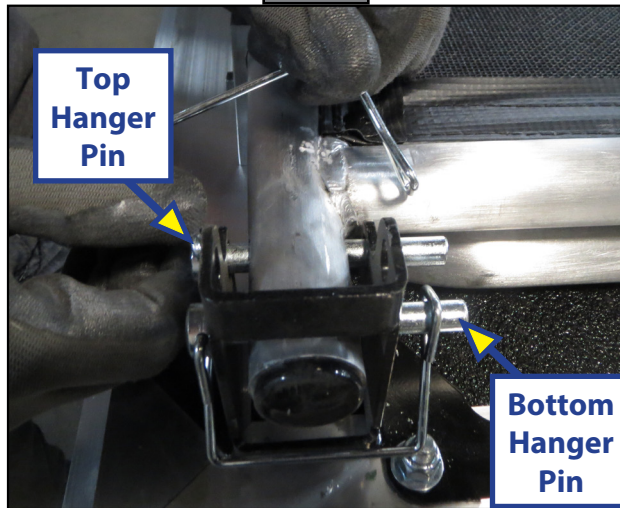
1. Lower Ramp Door to level position. Patio Kit should be folded in the storage position (Fig. 1).

Fig. 1



2. Starting with the hanger pin closest to the coach, unpin the top (4) hanger pins from foot brackets in corners (Fig. 2).

Fig. 2



3. Firmly grasp both the top and bottom of the patio frames (Fig. 3).

Fig. 3



4. The gate moves vertically. While SUPPORTING frame, pull towards yourself, lifting before it is rotated into either the setup or tear down position (Fig. 4).

NOTE: DO NOT scrape the boot and frame leg on the ramp door. Doing so may damage the coating on the floor and the frame.

Fig. 4



5. Replace top hanger pins (4) to secure the railing. Swing the patio kit doors away from the rest of the frame and link together in the middle (Fig. 5).

Fig. 5



6. Be sure to slide legs into guide plate (Fig. 6).
7. Apply thumb screws to secure the gate in a locked position (Fig. 7).

Fig. 6

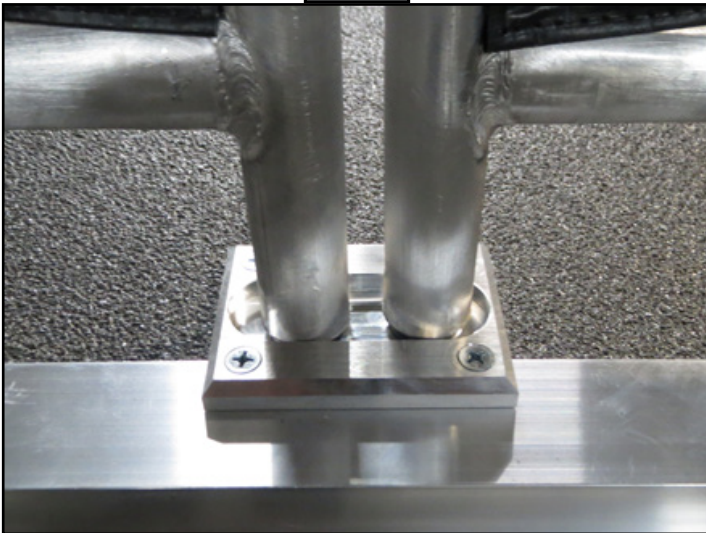


Fig. 7



Fig. 8

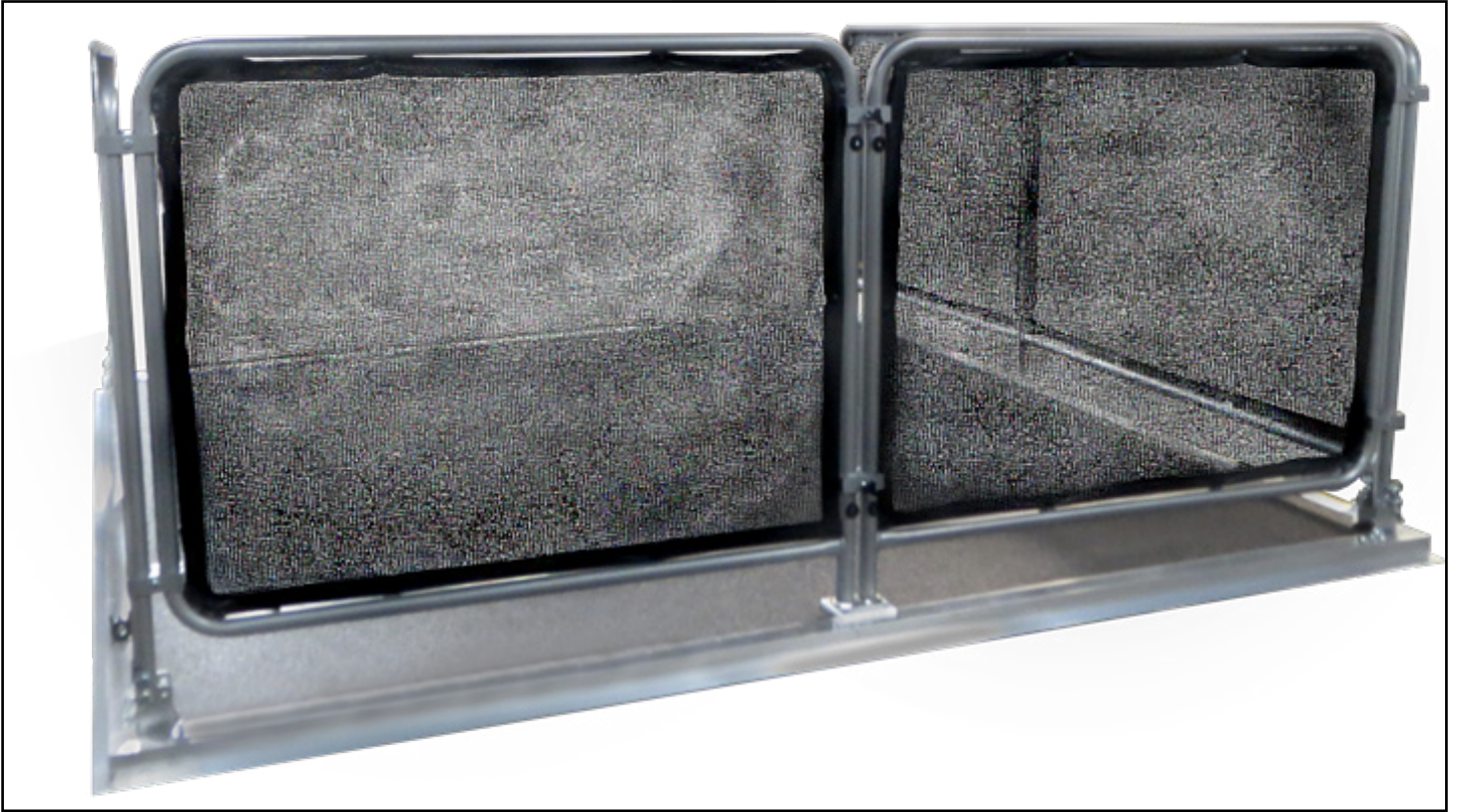


Fig. 9



LCI PARTY DECK

DOORS

Introduction

Lippert Components Party Decks are designed to help transform the ramp door of a coach into a comfortable, additional living space. The LCI Party Deck takes previously unavailable space and maximizes it, converting the ramp door into a fully functional outdoor deck in minutes. The easy-to-follow instructions in this manual will describe the process of setting up the LCI Party Deck.

NOTE: While the product is water resistant, it is recommended to store the door in the closed position during periods of rain to reduce the risk of water intrusion, which may result in delamination.

⚠ WARNING

The maximum weight rating for the Ramp Door is 3,000 pounds. The maximum weight rating for the Party Deck is 1,500 pounds. Exceeding the maximum weight ratings can cause death, serious injury or damage to the unit. DO NOT allow the ramp door to fall while lowering into level position, as this could cause injury or damage to the unit or door.

⚠ CAUTION

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

⚠ WARNING

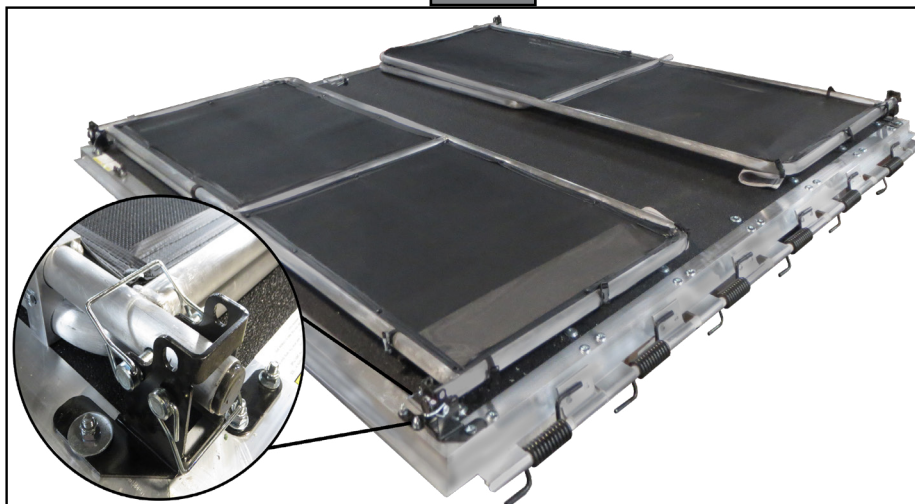
Do not remove set screw. Failure to follow this warning may result in death, serious personal injury and/or property damage. See owner's manual for instructions on use of adjustable cable.

NOTE: Cables are not always shown in the images for clarity purposes.

NOTE: Some trailers are equipped with an optional adjustable cable system for the ramp door. Follow applicable set screw warning for use of the adjustable cable. The adjustable cable system allows for up to +/- 2.5" of adjustment, in order to achieve a 90° angle for the ramp door while in patio mode.

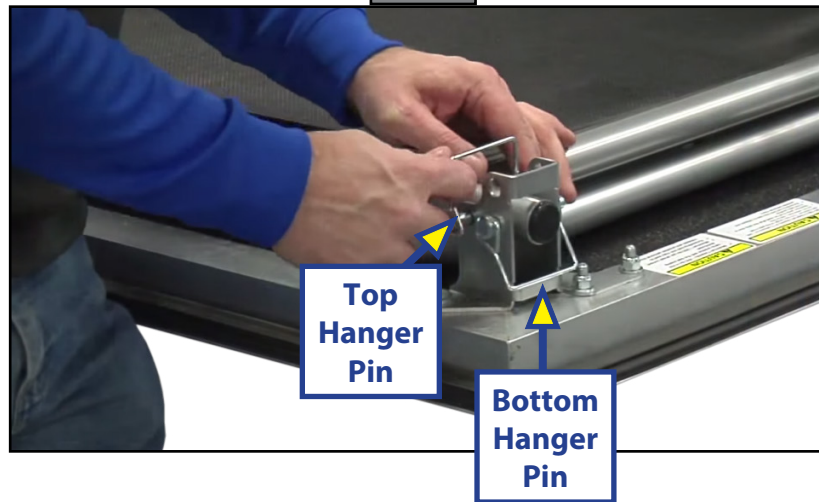
Operation

Fig. 1



1. Lower Ramp Door to level position. Patio Kit should be folded in the storage position (Fig. 1).
2. Starting with the hanger pin closest to the coach, unpin the top (4) hanger pins from foot brackets in the corners (Fig. 2).

Fig. 2



3. Firmly grasp both the top and bottom of the patio frames (Fig. 3).

Fig. 3



⚠ CAUTION

NOTE: Do not scrape the boot and frame leg on the ramp door. Doing so may damage the coating on the floor and the frame.

4. The gate moves vertically. While SUPPORTING frame, pull towards yourself, lifting before it is rotated into either the setup or tear down position (Fig. 4).

Fig. 4



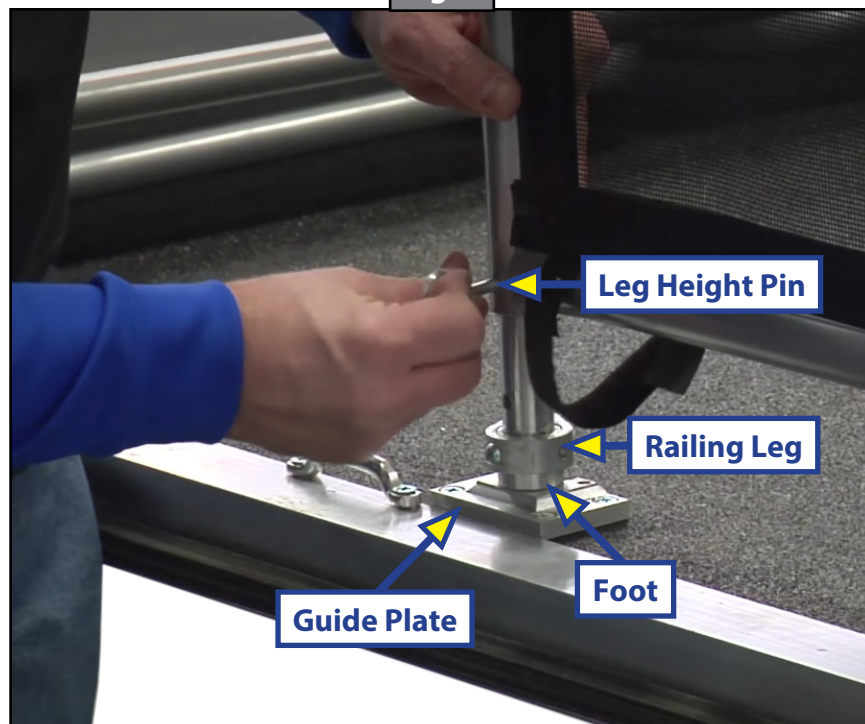
5. Replace top hanger pins (4) to secure the railing. Swing the patio kit doors away from the rest of the frame and link together in the middle (Fig. 5).

Fig. 5

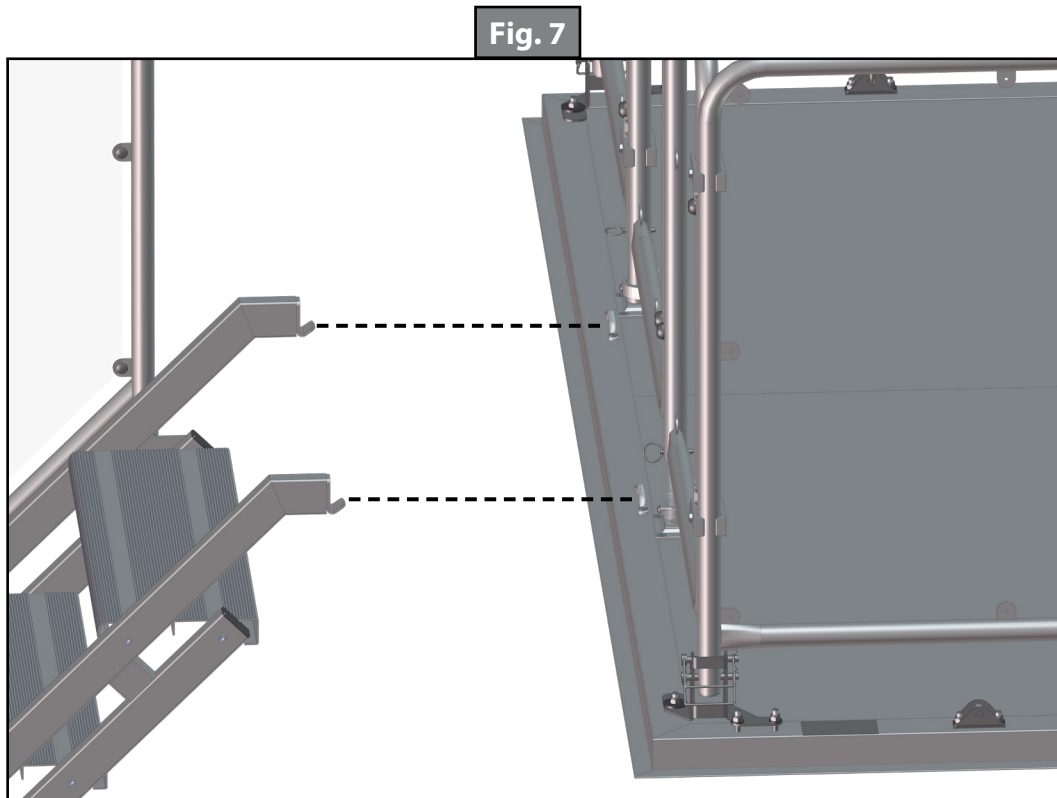


6. Release leg height pin and extend leg until the foot is secured into the guide plate (Fig. 6). Replace leg height pin to secure the leg in the railing.

Fig. 6



7. Attach the party deck steps and railing to the end of the deck (Fig. 7).



8. Insert the transition plate between the deck and the rear floor of the coach (Fig. 8).



9. Slide canopy fabric cord into awning cord rail on rear of coach. Roll out the Party Deck canopy (Fig. 9).

Fig. 9



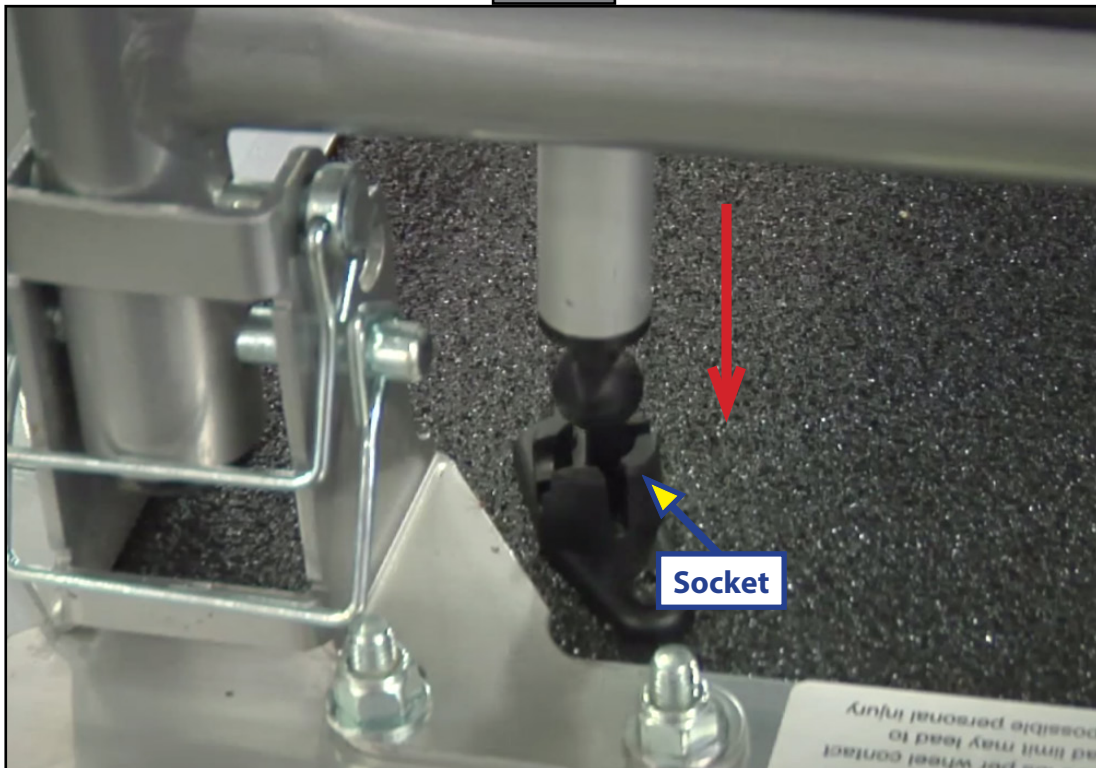
10. Fold the canopy legs (Fig. 10A) out from the canopy and telescope them to the floor (Fig. 10).

Fig. 10



11. Once fully extended, snap the bottom of the legs into the sockets (Fig. 11).

Fig. 11



12. Fold out the side supports (Fig. 12) from the canopy. Unlatch tensioner, telescope out, and insert the hook into the triangular gusset (Fig. 13). This will support the canopy.

Fig. 12

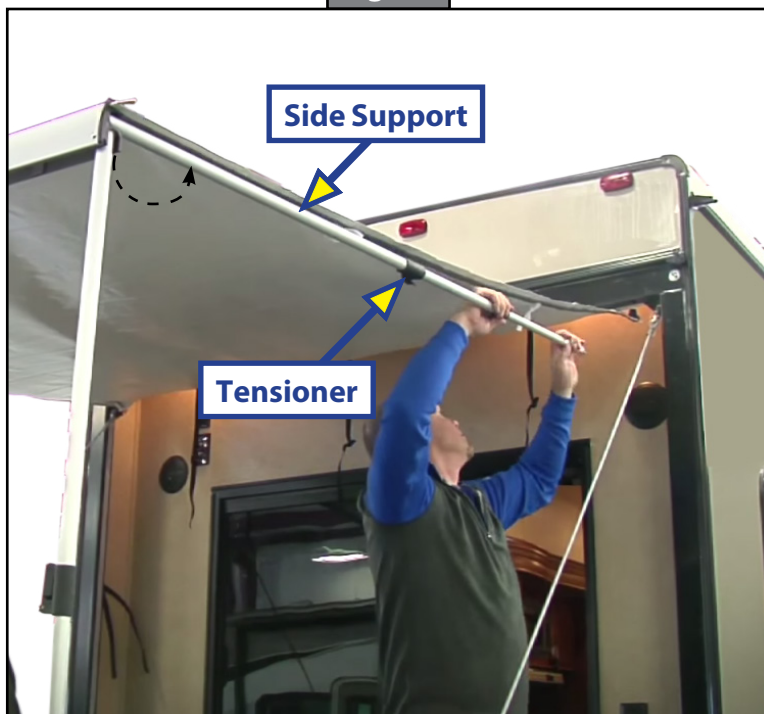
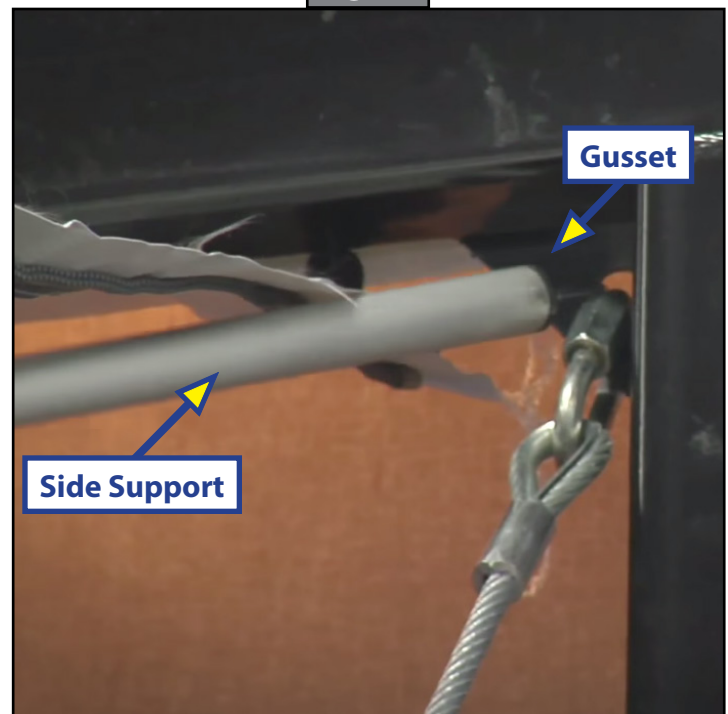


Fig. 13

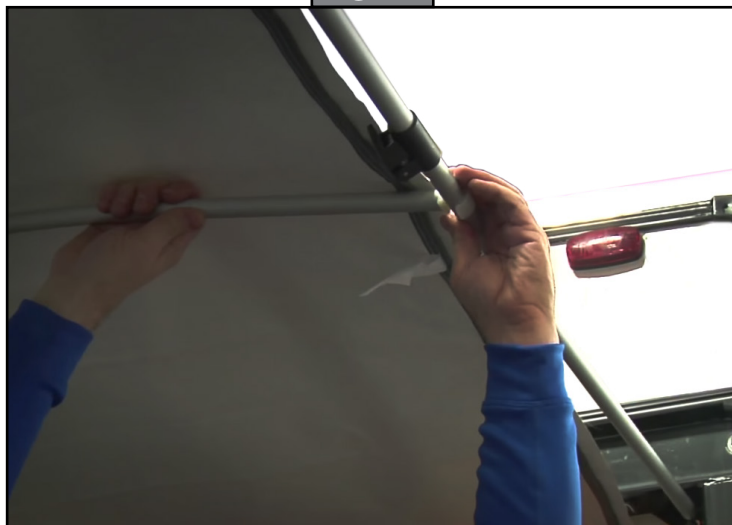


- 13.** Assemble the roof bow supports by inserting the end sections of the support into the middle section (Fig. 14), and position them evenly under the canopy to ensure proper water runoff. Press the clips into the side supports as shown (Fig. 15).

Fig. 14



Fig. 15



- 14.** Unfold the side panels, and zip them onto the roof's left and right side (Figs. 16 and 17).

Fig. 16



Fig. 17



- 15.** Slide the rear canopy cord into the cord rail (Fig. 18).
16. Zip the corners to the left and right side panels (Fig. 19).

Fig. 18

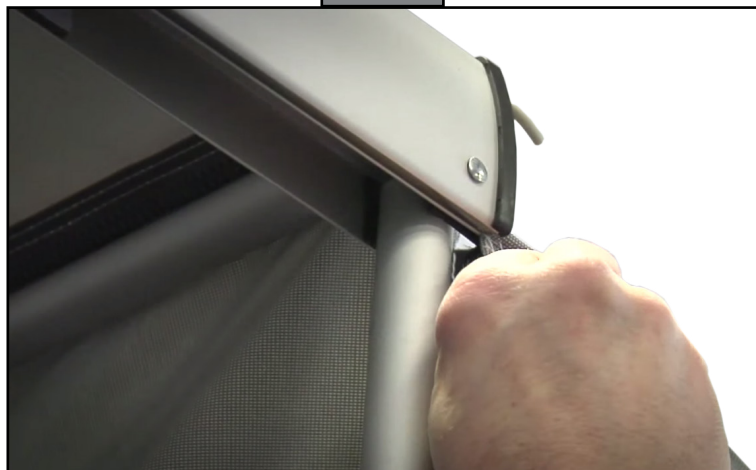


Fig. 19



17. Secure the bungee cords to the eyelets underneath the deck (Fig. 20).

⚠ CAUTION

Ensure the bungee cords do not snap back, which could cause injury.

Fig. 20



Fig. 21 - Finished Assembly



Maintenance

Prior to long periods of storage, it is recommended that the foot brackets and hanger pins of the patio railing assembly be lubricated to prevent rust.

Product Information

The Patio Rail Kits 2.0 are designed for either a rear ramp door or side patio installation allowing for a comfortable and additional living space. The rail kits utilize an existing rear ramp or side patio door. The patio rail kits can be easily extended and then stowed within the door jamb of the door assembly when not in use.

Adjustable Cable System

NOTE: Some trailers are equipped with an optional adjustable cable system for the patio door. Follow applicable set screw warning for use of the adjustable cable.

The optional adjustable cable system assists in maintaining the position of the door at a 90-degree angle from the door jamb. This will allow the rail kit to lock more securely into the keeper bases.

Adjustment of the door is done by lengthening or shortening the adjustable cable. By turning the turnbuckle and holding the other end, the cable can be shortened or lengthened to adjust the angle of the door. When the cable is lengthened, the angle of the door relative to the jamb will increase. When the cable is shortened, the angle of the door relative to the jamb will decrease.

NOTE: The adjustable cable system allows for up to +/- 2.5" of adjustment in order to achieve a 90-degree angle for the patio door while in patio mode.

Safety

⚠ WARNING

The maximum weight rating for the rear door in ramp mode is 3,000 pounds. The maximum weight rating for the side door in patio mode is 1,500 pounds. Exceeding the maximum weight ratings can cause death, serious personal injury, severe product or unit damage. **DO NOT** allow the door to fall while lowering into level position. This could cause serious personal injury, severe product or trailer damage.

⚠ CAUTION

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

Preparation

Make sure that the door support cables are attached and secure in the patio position prior to operation.

⚠ WARNING

Do not remove set screw. Failure to follow this warning may result in death, serious personal injury and/or severe property damage.

Product Safety Labels

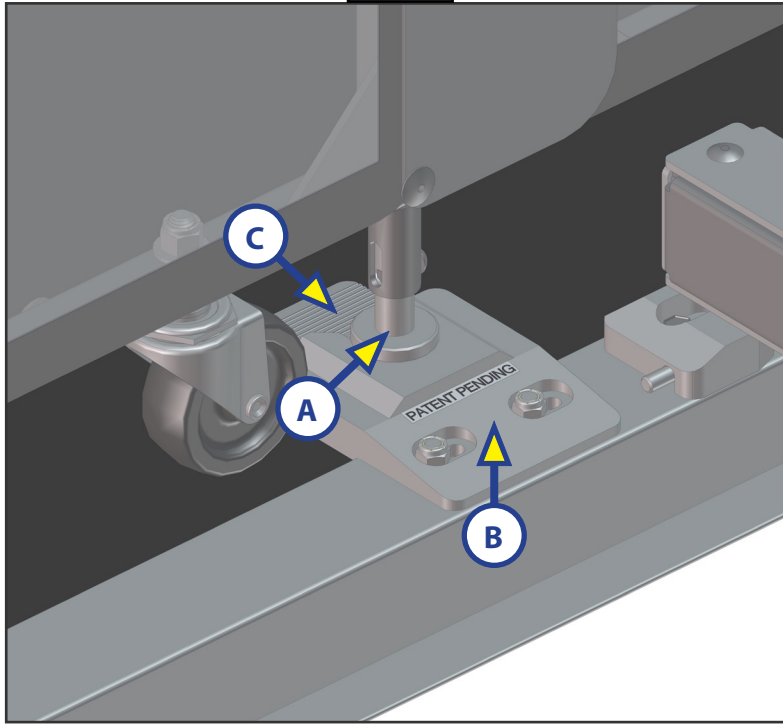
⚠ WARNING	⚠ CAUTION
• Failure to follow these instructions may result in death, serious injury or property damage. • Always secure the ramp door in either the closed, ramp or patio position. • Never use the ramp door while anything is obstructing operation. • Keep hands away from all openings, rollers and cables when operating the ramp door.	• Failure to follow these instructions may result in serious injury or property damage. • Read the instructions before installation or operation. • Never force the ramp door in any direction. • Always make sure the cables are pulling out straight, staying in the grooved portion of the rollers and not coming in contact with any obstructions. • Do not operate the ramp door if the cable is frayed or damaged.

Patio Railing Operation

Extending Patio Rail

1. Remove the hook and loop fabric strap securing the railing in the closed position.
2. Unfold the railing so that the keeper feet (Fig.1A) slide into the keeper bases (Fig. 1B) and lock in place.
3. Close and secure the gate with the latch.

Fig. 1



⚠ CAUTION

Properly stow rails to make sure that patio door closure does not compromise caster wheels. If patio railing is not properly stowed, caster wheels may get caught and be damaged by the hinge of the patio door when door is closed. Damage to caster wheels due to improper stowage of the patio rail kit is not covered under warranty.

⚠ CAUTION

To prevent damage to the rails and screen panels, always make sure to properly stow the rails when not in use and prior to travel. Failure to do so may result in personal injury or property damage.

Retracting Patio Rail

1. Open the latch on the gate.
2. Depress the foot release (Fig. 1C) on the keeper bases (Fig. 1B).
3. While facing the patio door opening, fold the right railing back onto itself so it rests flush inside the door opening.
4. Make sure no caster wheels are in the hinge space between the patio door and the door jamb.
5. Fold the left railing back onto itself so it rests flush inside the door opening.
6. Make sure no caster wheels are in the hinge space between the patio door and the door jamb.
7. When caster wheels are clear of the hinge area and the railings are folded inside the door opening, secure with attached hook and loop fabric strap to prevent shifting when railing is in the closed position.

Optional Step Operation

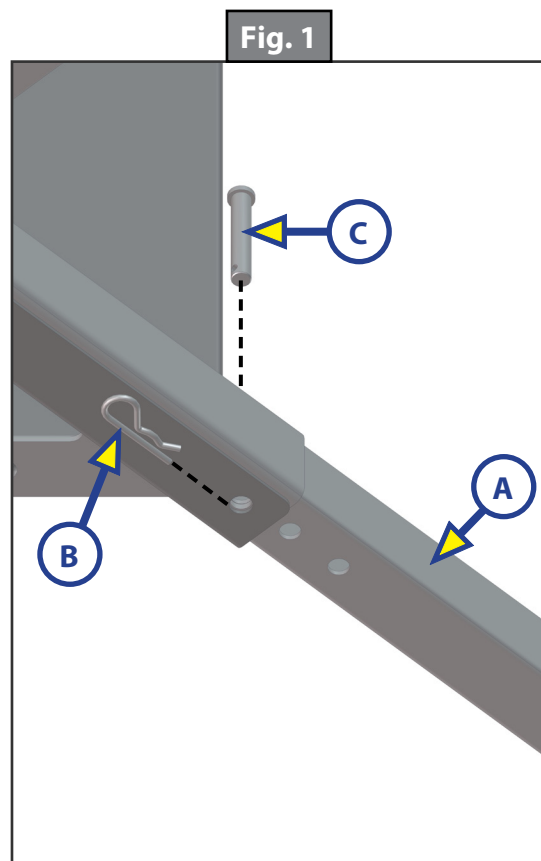
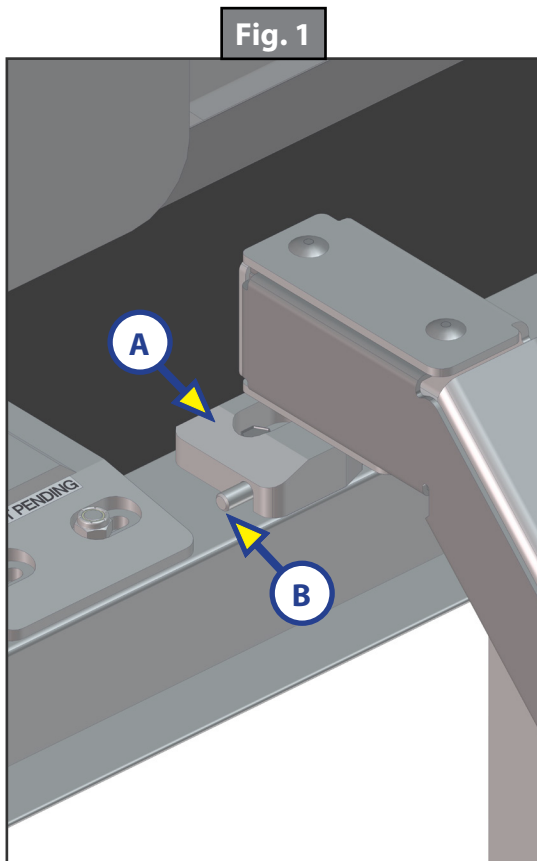
NOTE: Steps are an optional component in Patio Railing Kits 2.0.

Steps Set-Up

1. Attach the steps to the door by locking them into the step keeper bases (Fig. 2A).
2. Extend the feet (Fig. 3A) by removing the cotter pin (Fig. 3B) from the clevis pin (Fig. 3C).
3. Remove clevis pin from the foot rail.
4. Adjust the steps to a level position and secure by inserting the clevis pin into the nearest aligned foot holes, then insert the cotter pin into the clevis pin (Fig. 3).

Steps Storage

1. Remove the steps from the door by pushing in the pins (Fig. 2B) on the side of the step keeper bases (Fig. 2A).
2. Retract the feet (Fig. 3A) by removing the cotter pin (Fig. 3B) from the clevis pin (Fig. 3C).
3. Remove clevis pin from the foot rail.
4. Adjust the steps to a storage position and secure by inserting the clevis pin into the nearest aligned foot holes, then insert the cotter pin into the clevis pin (Fig. 3).



Maintenance

To maintain smooth operation of the rail kits,

1. Lubricate all moving parts every 30 days with a good quality moisture and heat resistant penetrating grease.

NOTE: Silicone lubricants and WD-40® are not recommended for use. They have a tendency to evaporate and dry the mating surfaces which leave them vulnerable to the elements.

NOTE: Prior to long periods of storage, LCI recommends that the keeper bases and keeper feet of the patio railing assembly be lubricated to prevent rust.

2. Check to make sure that the cable is not frayed or damaged. Replace as needed.
3. Check for loose or missing fasteners. Tighten or replace as needed.
4. Check for any visible signs of wear on caster wheels.
5. Inspect hinge points.
6. Check rail screen panels for tears.
7. Clean step assembly before lubricating.

REAR RAMP DOOR (CABLE-LESS)

DOORS

Introduction

The Cable-Less Rear Ramp Door created by LCI is designed to be a mobile door for loading and unloading toys and other heavy equipment. **DO NOT** exceed the maximum weight capacity. The maximum weight capacity for the door is 150 lbs per square foot or 2,000 lbs maximum weight capacity.

Additional information about this product can be obtained from lci.com/support or by using the [MyLCI](#) app. Replacement components can be ordered from <https://store.lci1.com/> or by using the MyLCI app. The MyLCI app is available for free on iTunes® for iPhone® and iPad® and also on Google Play™ for Android™ users.

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Google Play™ and Android™ are trademarks of Google Inc.

Safety

Read and understand all instructions before starting any procedures stated in this manual. Adhere to all safety labels to prevent personal injury and/or product damage. Failure to follow instructions and safety labels may void product warranty.

WARNING

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

WARNING

- Do not operate the ramp door on uneven ground.
- Always lower ramp door onto level ground.
- Do not release the ramp door until it rests completely on the ground.
- Do not stand behind the ramp door while operating.
- Keep all body parts clear of the ramp door while closing.
- Do not lower ramp door into a ditch or gully.
- Failure to heed WARNING may result in serious bodily injury or component and/or property damage.

NOTE: Although the product is water resistant, LCI recommends storing the door in the closed position during periods of rain to reduce the risk of water intrusion, which may result in delamination.

CAUTION

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

⚠ CAUTION

The system is not built with a preventative measure from overdriving the system. Failure to stop extending the door when it reaches the ground could result in damage of the product or personal property.

⚠ CAUTION

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

Operation

Extending - With Cinch Latch

1. Insert the key into the system key switch (Fig. 1).
2. Activate power to the drive system by turning the key to the "on" position. This will cause the cinch latch to release the door.
3. Press and hold the EXTEND button (Fig. 2A) on the rocker switch (Fig. 2) or keyfob until the door reaches the ground.
4. When the door reaches the ground, release the rocker switch/keyfob.
5. Turn the key to the "off" position.
6. Remove the key from the system key switch (Fig. 1).

Fig. 1

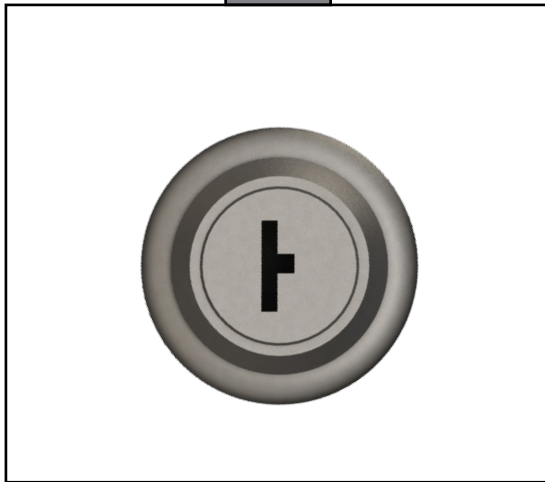
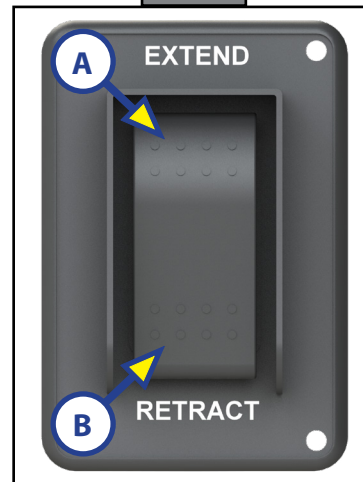


Fig. 2



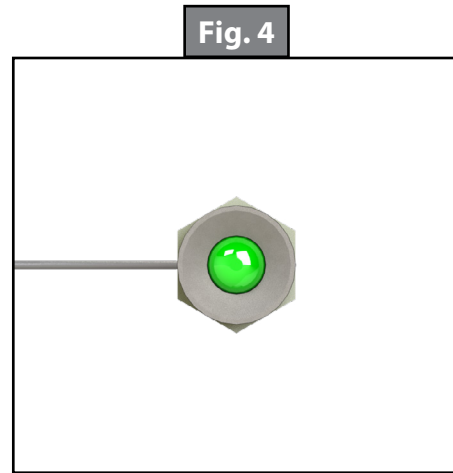
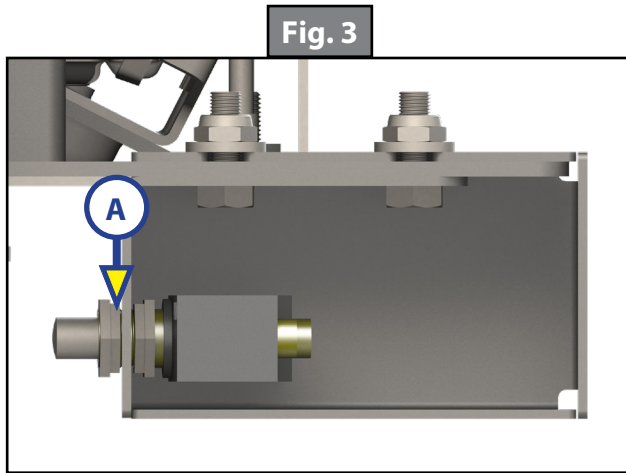
Retracting - With Cinch Latch

1. Insert the key into the system key switch (Fig. 1).
2. Activate power to the drive system by turning the key to the "on" position.
3. Press and hold the RETRACT button (Fig. 2B) on the rocker switch or keyfob until the door closes.

NOTE: When the door is closed, the drive system will stop on its own.

NOTE: Watch the drive mechanism arms to verify that they stop when the door is closed. If they do not stop, release the rocker switch and check that the limit switches (Fig. 3A) have not shifted position.

4. When door is cinched, the LED will light green (Fig. 4) signifying a proper cinch.
5. Turn the key to the "off" position.
6. Remove the key from the system key switch (Fig. 1).



Extending - Without Cinch Latch

⚠ CAUTION

Failure to unlock and move the bar latches or cam latches to the "open" position could cause damage to the system or personal property.

1. Unlock the bar latches or cam latches and move them into the "open" position.
2. Insert the key into the system key switch (Fig. 1).
3. Activate power to the drive system by turning the key to the "on" position.
4. Press and hold the EXTEND button (Fig. 2A) on the rocker switch or keyfob until the door reaches the ground.

⚠ CAUTION

The system is not built with a preventative measure from overdriving the system. Failure to stop extending the door when it reaches the ground could result in damage of the product or personal property.

5. When the door reaches the ground, release the rocker switch/keyfob.
6. Turn the key to the "off" position.
7. Remove the key from the system key switch.

Retracting - Without Cinch Latch

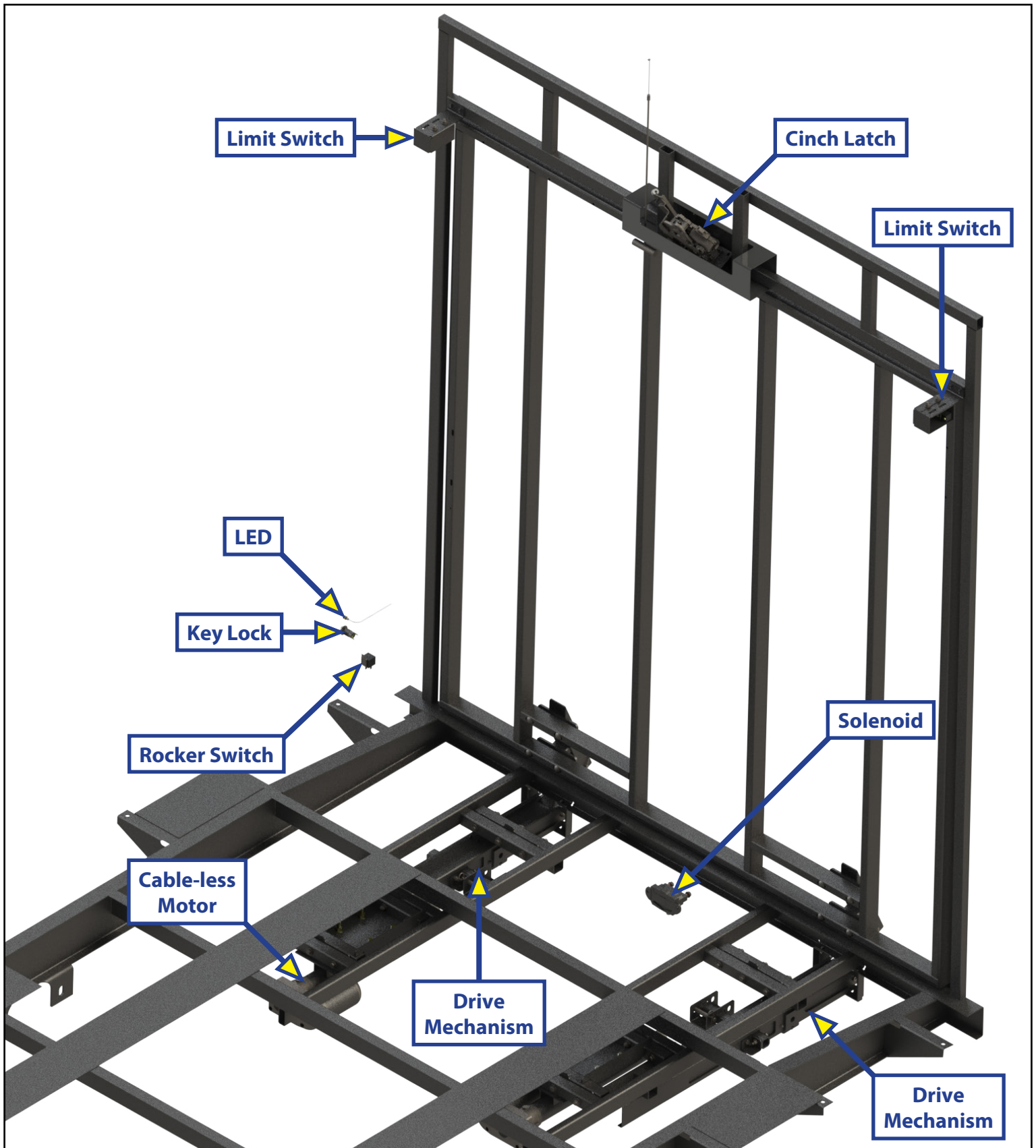
1. Insert the key into the system key switch (Fig. 1).
2. Activate power to the drive system by turning the key to the "on" position.
3. Press and hold the RETRACT button (Fig. 2B) on the rocker switch or keyfob until the door closes.

NOTE: When the door is closed, the drive system will stop on its own.

NOTE: Watch the drive mechanism arms to verify that they stop when the door is closed. If they do not stop, release the rocker switch/keyfob and check that the limit switches (Fig. 3A) have not shifted position.

4. Turn the key to the "off" position.
5. Remove the key from the system key switch.
6. Move the bar latches or cam latches to the "closed" position and lock them.

CABLE-LESS REAR RAMP DOOR ASSEMBLY



Notes



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