

PSX2® (Power Stabilizing System)

Installation and Owner's Manual

(For Aftermarket Applications)

Table of Contents

Introduction 2
Safety 2
Parts List 3
Resources Required 3
Installation 4
Determine Stabilizer Locations 4
Attaching stabilizers 4
Wiring Diagram 5
Operation 6
Preparation 6
Extending Stabilizers 6
Retracting Stabilizers 6
Stabilizer System 7
System Maintenance 7
Mechanical Maintenance 7
Electrical Maintenance 7
Troubleshooting 8
Manual Override 8

PSX2 Stabilizer Kit	
Part #	**Description**
2025049967	PSX2® w/Waterproof Black Switch

NOTE: PSX2 Stabilizers beginning in 2025 will be equipped with orange arms and may be substituted for PSX2 with yellow arms.

PSX2® (Power Stabilizing System)

Installation and Owner's Manual

(For Aftermarket Applications)

Introduction

Please read and study the Operation section of the manual before operating the PSX2. The PSX2 is a 12V DC electric motor-driven system. The electric motors drive Acme-threaded screws to extend and retract the stabilizer legs to stabilize the trailer.

The stabilizing system can be installed on travel trailers and 5th Wheels. Travel trailer options include both front and rear stabilizers or a rear stabilizer only, while 5th Wheels typically utilize only a front stabilizer. The PSX2 has two motors per stabilizer.

There are no serviceable parts within the electric motors. If either motor fails, it must be replaced. Disassembly of the motor voids the warranty. Mechanical portions of the PSX2 are replaceable. Contact Lippert to obtain replacement parts.

Additional information about this product can be obtained from lci1.com/support or by using the LippertNOW app. Replacement kits can be ordered from https://store.lci1.com/ or by using the LippertNOW app.

The LippertNOW app is available for free on Apple App Store® for iPhone® and iPad® and also on Google Play™ for Android™ users.

App Store® and iPad® are registered trademarks of Apple Inc.
Google Play™ and Android™ are trademarks of Google Inc.

For additional support on this product, scan this QR code or go to: https://support.lci1.com/stabilization-support-electric-stabilizer

Safety

Read and fully understand all instructions before installing or operating this product.

Adhere to all safety labels.

The PSX2 is intended for the purpose of stabilizing the trailer. The use of this system for any reason other than which it is intended is prohibited by Lippert's Limited Warranty and may result in serious personal injury or death. The PSX2 is designed as a stabilizing component system and should not be used to provide service for any reason under the trailer such as changing tires or repairing or replacing any components beneath the trailer.

⚠WARNING

THE "WARNING" SYMBOL ABOVE IS A SIGN THAT AN INSTALLATION PROCEDURE HAS A SAFETY RISK INVOLVED AND MAY CAUSE DEATH, SERIOUS PERSONAL INJURY OR SEVERE PRODUCT OR PROPERTY DAMAGE IF NOT PERFORMED SAFELY AND WITHIN THE PARAMETERS SET FORTH IN THIS MANUAL. ALWAYS WEAR EYE PROTECTION WHEN PERFORMING THIS INSTALLATION PROCEDURE. OTHER SAFETY EQUIPMENT TO CONSIDER WOULD BE HEARING PROTECTION, GLOVES AND POSSIBLY A FULL FACE SHIELD, DEPENDING ON THE NATURE OF THE INSTALLATION PROCEDURE.

⚠WARNING

LIPPERT RECOMMENDS THAT A TRAINED PROFESSIONAL BE EMPLOYED TO CHANGE THE TIRES ON THE TRAILER. ANY ATTEMPTS TO CHANGE TIRES OR PERFORM OTHER SERVICES WHILE TRAILER IS SUPPORTED BY THE PSX2 COULD RESULT IN DEATH, SERIOUS PERSONAL INJURY OR SEVERE PRODUCT OR PROPERTY DAMAGE.

⚠WARNING

THE PSX2 IS DESIGNED AS A STABILIZING COMPONENT SYSTEM. DO NOT USE THIS STABILIZING SYSTEM TO ATTEMPT TO LEVEL THE TRAILER. FAILURE TO FOLLOW INSTRUCTIONS IN THIS MANUAL COULD RESULT IN DEATH, SERIOUS PERSONAL INJURY OR SEVERE PRODUCT OR PROPERTY DAMAGE.

⚠CAUTION

FLYING DUST, DIRT AND DEBRIS CAN CAUSE SEVERE IRRITATION AND DAMAGE TO SOFT TISSUE. USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE), SUCH AS SAFETY GLASSES, BEFORE PERFORMING BRAKE SERVICE.

⚠CAUTION

MOVING PARTS CAN PINCH, CRUSH OR CUT. KEEP CLEAR AND USE CAUTION.

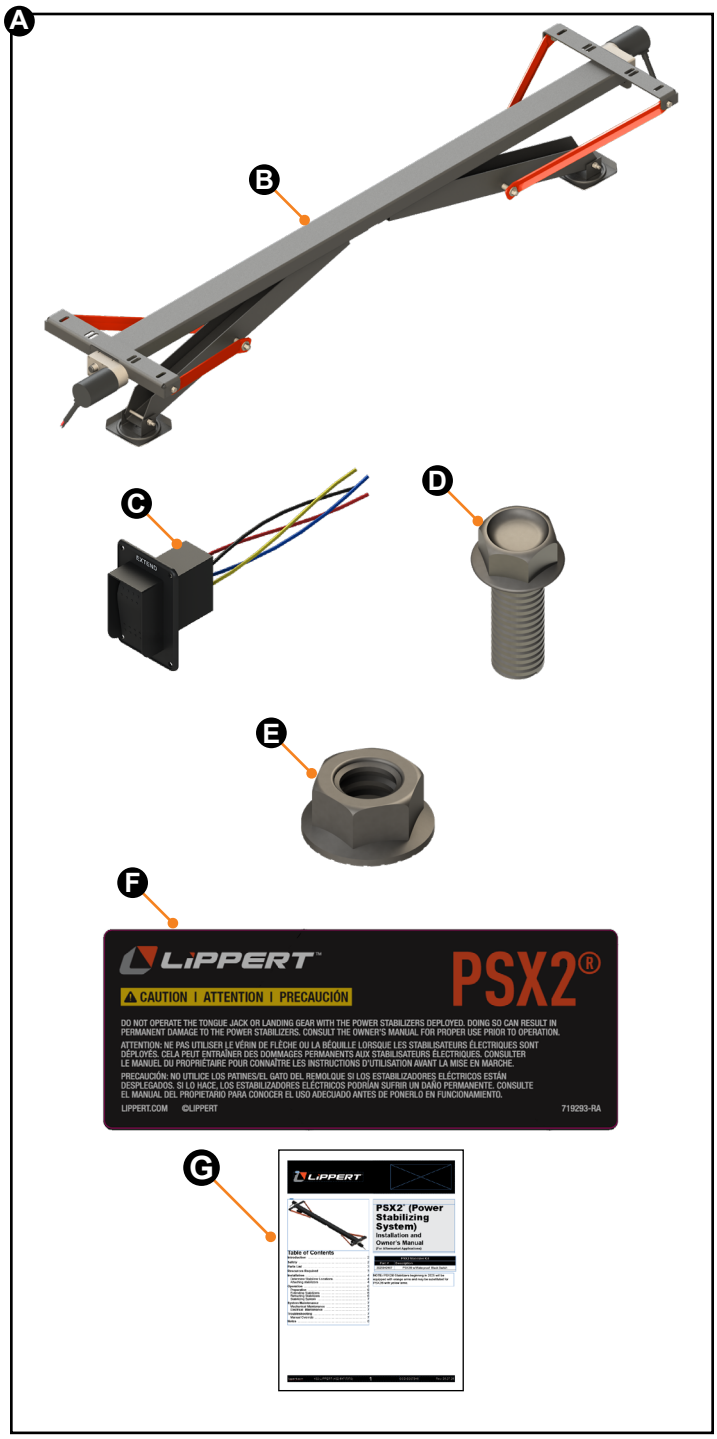
PSX2® (Power Stabilizing System)

Installation and Owner's Manual

(For Aftermarket Applications)

Parts List

Letter	PN	Description	Qty
Kit A	2025049967	PSX2 w/Waterproof Black Switch	1
B	2022453575	Power Stabilizer	1
C	387874	Power Stabilizer Switch (Black)	1
D	117919	Bolt, Serrated Flange 3/8" - 16 x 1"	4
E	119072	Flange Nut with Etched Bottom, 3/8" - 16	4
F	719293	Label, Power Unit Caution	1
G	CCD-0007346	Installation and Owner's Manual	1



NOTE: Part numbers are shown for identification purposes only. Not all parts are available for individual sale. All parts with a link to the Lippert Store can be purchased.

Resources Required

- Cordless or electric drill or screw gun
- Appropriate drive bits
- Appropriate drill bits
- 9⁄16" Wrench
- 9⁄16" Socket
- 5⁄16" Socket
- 5⁄16" Nut driver
- Ratchet
- C-Clamp

PSX2® (Power Stabilizing System)

Installation and Owner's Manual

(For Aftermarket Applications)

Installation

Determine Stabilizer Locations

1. Measure approach and departure angles by running a string line from the meeting point of the tire and ground up at an angle to the lowest point on the front and rear of the trailer. These string lines are shown as dotted lines **(Fig. 1)**.

2. The rear stabilizer can be mounted at any point between the rear axle hanger and the bumper while making sure the system stays within the departure angle **(Fig. 1)**.

3. The front stabilizer can be mounted anywhere as long as the system remains within the approach angle **(Fig. 1)**.

NOTE: The stabilizing systems are shown for reference only to help mark proper locations. Any location outside these guidelines will need Lippert engineering approval.

⚠WARNING

BEFORE WORKING UNDERNEATH THE TRAILER, MAKE SURE IT IS SUPPORTED PER MANUFACTURER'S RECOMMENDATIONS. FAILURE TO DO SO MAY RESULT IN DEATH OR SERIOUS PERSONAL INJURY OR SEVERE PRODUCT OR PROPERTY DAMAGE.

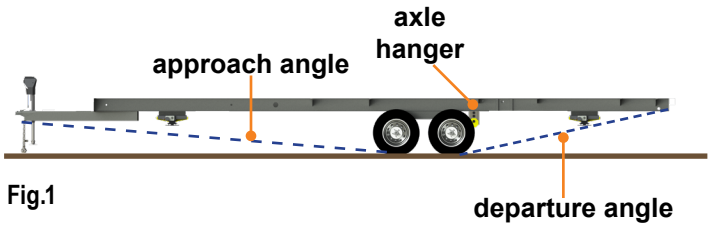


Fig.1



Fig.2

Attaching stabilizers

NOTE: Do not weld the system to the trailer. Welding the system to the trailer voids all warranty claims.

NOTE: Support framework in accordance with the manufacturer's recommendations.

1. Place the stabilizer under the main frame rails.

2. Manually crank the system upward so the mounting brackets match up to the main frame rails. See "Manual Override" in the Troubleshooting section.

3. Using locking C-clamps, secure the mounting brackets in place prior to drilling holes.

4. Drill four ⅜" diameter mounting holes in the main frame rails in the **(Fig.2A)** locations.

5. Using four ⅜" flange bolts and flange nuts, securely fasten the stabilizer to the main frame rails with two bolts and nuts per end in the **(Fig.2A)** locations. Torque nuts to 23 ft-lb.

6. Install switch (front or rear) inside a compartment or on the exterior of the trailer within view of the related stabilizer legs.

7. Power feed for the stabilizer must be on a minimum 20A circuit. The power feed should not experience more than a 10% voltage drop between the power source and the motor connections while the circuit is under load.

8. Circuit protection of power feed wires must be per RVIA code standards.

NOTE: A minimum 10 AWG is required for wiring the stabilizers.

NOTE: Auto-reset circuit protection is contained internally in the motors. If tripped, it will reset after a delay.

Wiring Diagram

NOTE: Use heat-shrink butt connectors on all connections.

NOTE: Minimum 10 awg for red and black wires.

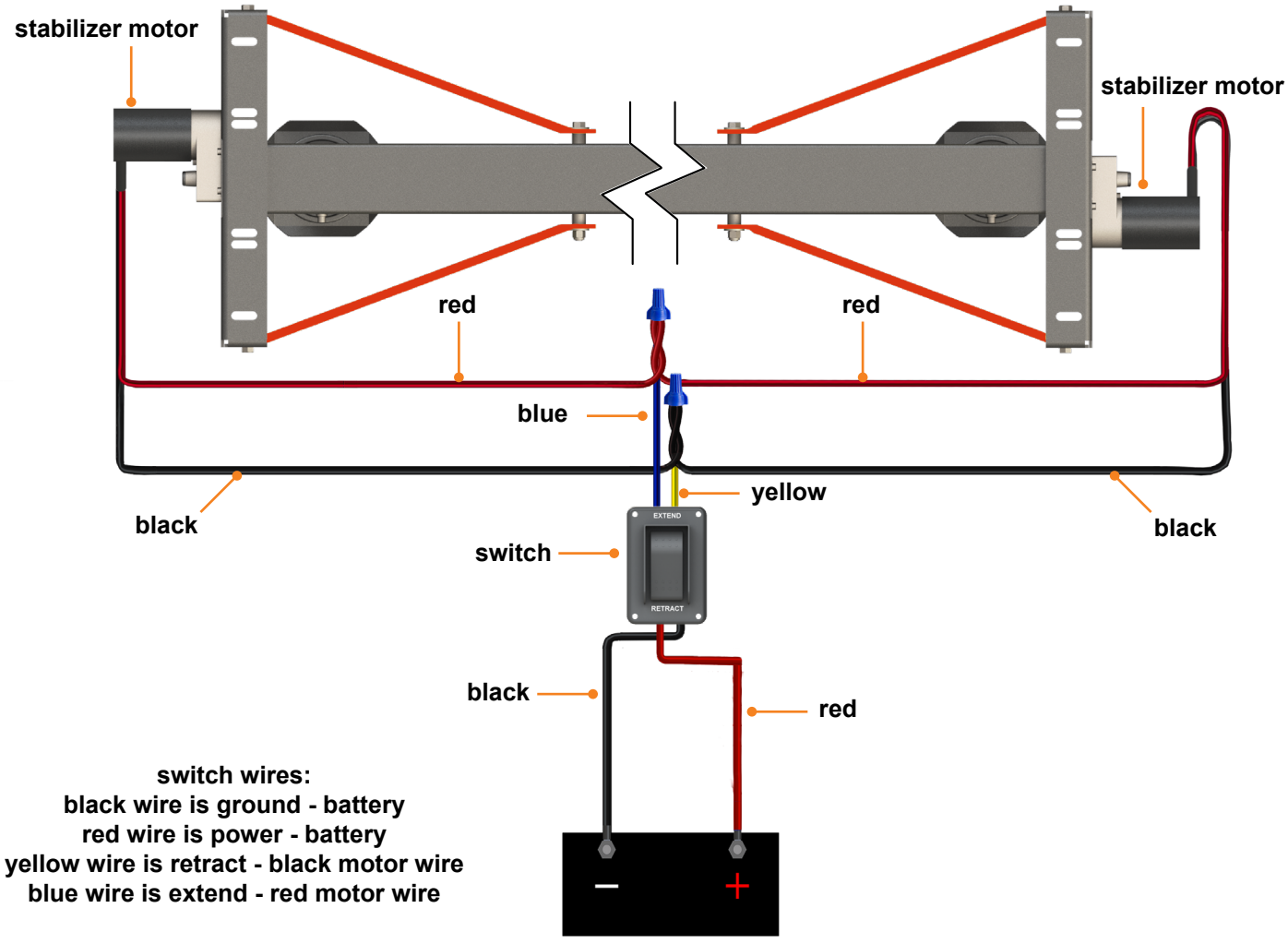


Fig.3 - Wiring Diagram

Operation

⚠WARNING

FAILURE TO ACT IN ACCORDANCE WITH THE FOLLOWING MAY RESULT IN DEATH, SERIOUS PERSONAL INJURY OR SEVERE PRODUCT OR PROPERTY DAMAGE. ALWAYS MAKE SURE THAT THE STABILIZER AREA IS CLEAR OF PEOPLE, PETS, AND OBJECTS BEFORE AND DURING OPERATION OF THE SYSTEM. ALWAYS KEEP AWAY FROM THE STABILIZER LEGS IN OPERATION.

⚠CAUTION

THE PSX2 IS TO BE USED FOR STABILIZING THE TRAILER, NOT LEVELING THE TRAILER. THE STABILIZER LEGS SHOULD NEVER BE EXTENDED LONGER THAN TWO SECONDS BEYOND INITIAL CONTACT WITH THE GROUND.

⚠CAUTION

MOVING PARTS CAN PINCH, CRUSH OR CUT. KEEP CLEAR AND USE CAUTION.

Preparation

The PSX2 is intended for the purpose of stabilizing the trailer after the trailer is leveled.

⚠CAUTION

NEVER LIFT THE TRAILER COMPLETELY OFF THE GROUND. LIFTING THE TRAILER COMPLETELY OFF THE GROUND CREATES AN UNSTABLE CONDITION THAT COULD RESULT IN PROPERTY DAMAGE AND PERSONAL INJURY.

1. Be sure to park the trailer on solid, level ground.

2. Clear all stabilizer leg landing locations of debris and obstructions. Locations should also be free of depressions.

3. When parking the trailer on extremely soft surfaces, utilize load distribution pads under each stabilizer leg.

4. People and pets should be clear of trailer while operating the stabilizers.

Extending Stabilizers

1. Make sure the trailer is level.

2. Verify the battery is fully charged and hooked up to the electrical system.

NOTE: If the ground beneath the stabilizer is not level, it is possible that one of the stabilizer legs will reach the ground first. If this happens, continue pressing EXTEND until the second stabilizer leg reaches the ground and stabilizes the trailer.

3. Press and hold EXTEND on the switch **(Fig. 4A)** for the rear stabilizer until the footpads of the stabilizer legs contact the ground and the rear of the trailer is stabilized. Then release the switch.

4. If a front stabilizer is installed, press and hold EXTEND on the switch **(Fig. 4A)** for the front stabilizer until the footpads of the stabilizer legs contact the ground and the front of the trailer is stabilized. Then release the switch.

⚠CAUTION

ONCE THE STABILIZER LEGS HAVE BEEN EXTENDED, DO NOT USE THE TONGUE JACK ON THE TRAILER OR THE LANDING GEAR ON A 5TH WHEEL. DAMAGE TO THE STABILIZER LEGS CAN OCCUR WHEN LIFTING OR LEVELING THE TRAILER AFTER THE STABILIZER LEGS HAVE BEEN EXTENDED. DOING SO WILL VOID THE WARRANTY OF THE STABILIZERS.

Retracting Stabilizers

1. Verify the battery is fully charged and hooked up to the electrical system.

2. If a front stabilizer is installed, press and hold "RETRACT" on the switch **(Fig. 4B)** for the front stabilizer until the stabilizer legs are fully retracted. Then release the switch.

3. Press and hold "RETRACT" on the switch **(Fig. 4B)** for the rear stabilizer until the stabilizer legs are fully retracted. Then release the switch.

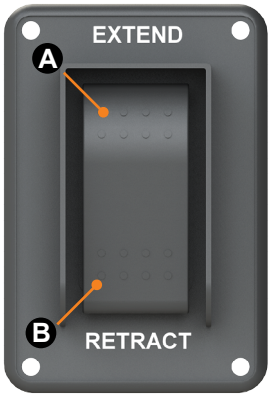


Fig.4

Stabilizer System

By pressing and holding the EXTEND switch **(Fig. 4A)** for one to two seconds after the stabilizer legs' footpads make contact with the ground, the trailer will be stabilized and ready for use.

In the event the system shuts off while trying to stabilize the trailer, the auto-reset circuit protection contained within the motors has tripped and will reset within 10 seconds. The internal circuit protection is included to prevent the stabilizer from lifting the trailer. If the circuit protection trips, then the stabilizer legs should not be extended farther.

If the stabilizer legs are not synchronized and are extending unevenly, press and hold RETRACT **(Fig. 4B)** on the switch until both legs are fully retracted. The circuit protection will trip. After the circuit protection resets, the stabilization sequence can be restarted.

NOTE: Make sure the stabilizer legs are fully retracted before moving the trailer.

System Maintenance

⚠WARNING

DO NOT WORK ON THE STABILIZER UNLESS THE BATTERY IS DISCONNECTED. FAILURE TO ACT IN ACCORDANCE WITH THE FOLLOWING MAY RESULT IN DEATH, SERIOUS PERSONAL INJURY OR SEVERE PRODUCT OR PROPERTY DAMAGE.

Mechanical Maintenance

It is recommended that when operating in harsh environments, e.g. road salt or ice buildup, the moving parts be kept clean. Parts can be washed with mild soap and water. The ACME screw is pre-coated with grease. If the screw is cleaned, it may be necessary to add grease to the screw to ensure smooth stabilizer operation.

Electrical Maintenance

For optimum performance, the system requires full battery current and voltage. Maintain battery at full capacity. Also, check the terminals and other connections at the battery, the control switch and the electric motors for corrosion and loose or damaged terminals. Check motor leads under the trailer chassis. Since these connections are subject to damage from road debris, make sure they are in good condition.

Troubleshooting

Manual Override

The PSX2 comes with a manual override system located on the side of each motor.

⚠ CAUTION

THE GEARS CAN BE STRIPPED IF THE STABILIZER LEGS ARE MANUALLY RETRACTED/EXTENDED TO THE FULLEST EXTENT AND THE OPERATOR CONTINUES TO ROTATE THE MANUAL OVERRIDE. USE OF A POWER TOOL COULD CAUSE HARM TO THE USER OR DAMAGE THE STABILIZER MOTOR.

NOTE: Use of a ratchet with a 5⁄16" socket or 5⁄16" nut driver is recommended to manually override the system. Do not use an impact tool to perform any of the override procedures, because this may damage the motor.

To manually operate the stabilizers:

1. Disconnect one of the wire leads from each motor to prevent back feeding the motors.

NOTE: The manual override procedure must be performed individually on each motor of PSX2 in order to manually extend or retract the legs.

2. Find the access port on the side of the leg motor **(Fig. 5A)**.

3. Remove the rubber plug.

4. Place the 5⁄16" socket or 5⁄16" nut driver over the manual override nut **(Fig. 5A)**.

5. Turn the override nut until the leg extends or retracts to the desired position. A clockwise rotation will extend the leg and counterclockwise will retract the leg.

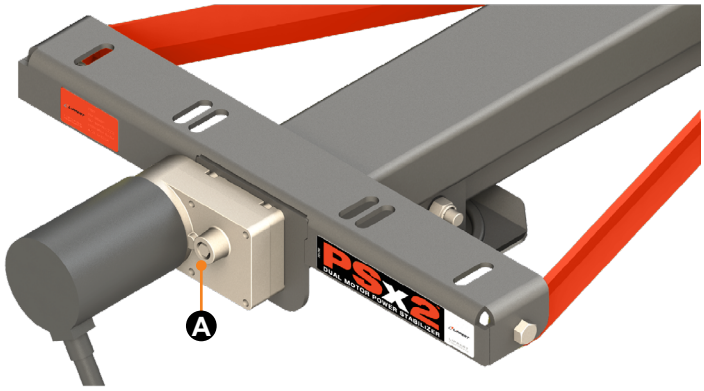


Fig.5

What's Happening?	What Should Be Done?
Legs out of sync due to uneven ground or legs extended unevenly.	Fully retract both stabilizer legs to synchronize.
System shuts off due to too much weight.	Internal circuit protection will reset in 10 seconds.
Switch does not activate system due to low voltage or damaged or disconnected wiring.	Check wiring. Repair or replace.

Manual information may be distributed as a complete document only, unless Lippert provides explicit consent to distribute individual parts.

All manual information is subject to change without notice. Revised editions will be available for free download at lippert.com. Manual information is considered factual until made obsolete by a revised version.

Please recycle all obsolete materials and contact Lippert with concerns or questions.