QUICK DROP STABILIZER

OEM INSTALLATION MANUAL

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System Description

Quick Drop Stabilizers 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 rear stabilizer.

Additional information about this product can be obtained from lci1.com/support or by downloading the free LippertNOW app. The app is available on Apple App Store® 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.

For information on the assembly or individual components of this product, please visit:
https://support.lci1.com/stabilization

Safety Information

Quick Drop Stabilizers are intended for the purpose of stabilizing the trailer after the trailer has been leveled. 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. Quick Drop Stabilizers are 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

Quick Drop Stabilizers are 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.

⚠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.

⚠CAUTION

The Quick Drop Stabilizers require a minimum of 16" ground clearance from ground to mounting plate to operate properly and provide optimal stabilization.

⚠CAUTION

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

Installation, Variation 1: 2 Quick Drop Stabilizer Legs with Center Piece

Resources Required

- Cordless or electric drill or screw gun
- Appropriate drive bits
- Appropriate drill bits
- Tape measure
- Torque wrench
- 3/8" x 1" self-drilling screws
- 3/8" x 1" bolts
- 3/8" x 1" flange nuts

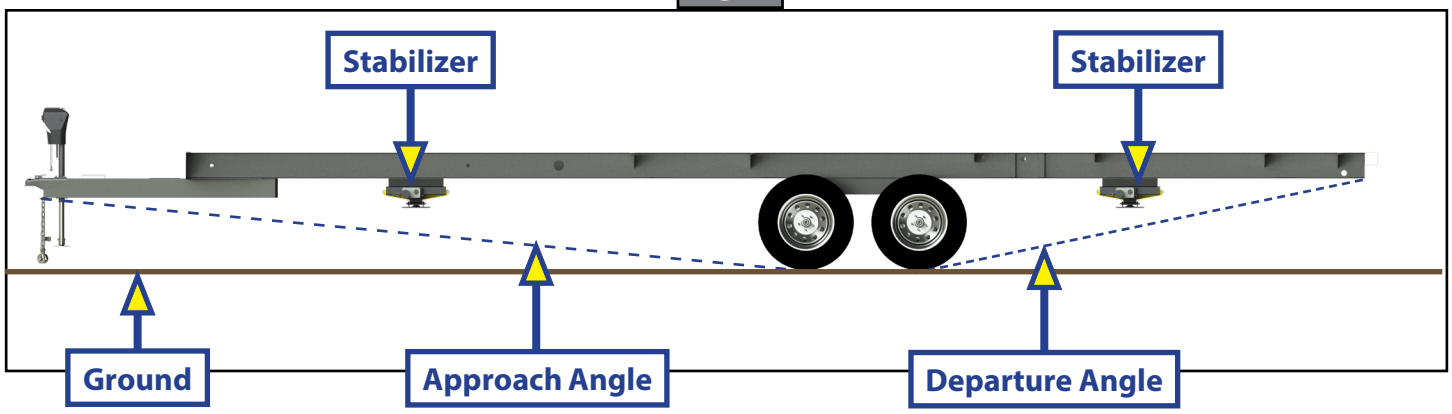
Small Hardware Parts Breakdown			
Part	Single (1) Leg	Two (2) Legs	Four (4) Legs
3/8" x 1" self-drilling screws	3	6	12
3/8" x 1" bolts	1	2	4
3/8" x 1" flange nuts	1	2	4

Determine Stabilizer Locations

1. The stabilizers can be mounted at any point between the rear axle hanger and the bumper while making sure they stay within the departure angle while also maintaining at least 16″ of clearance between ground and mounting plate. The front stabilizer can be mounted anywhere as long as the system remains within the approach angle while also maintaining at least 16″ of clearance between ground and mounting plate.
2. To measure approach and departure angle, run 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).

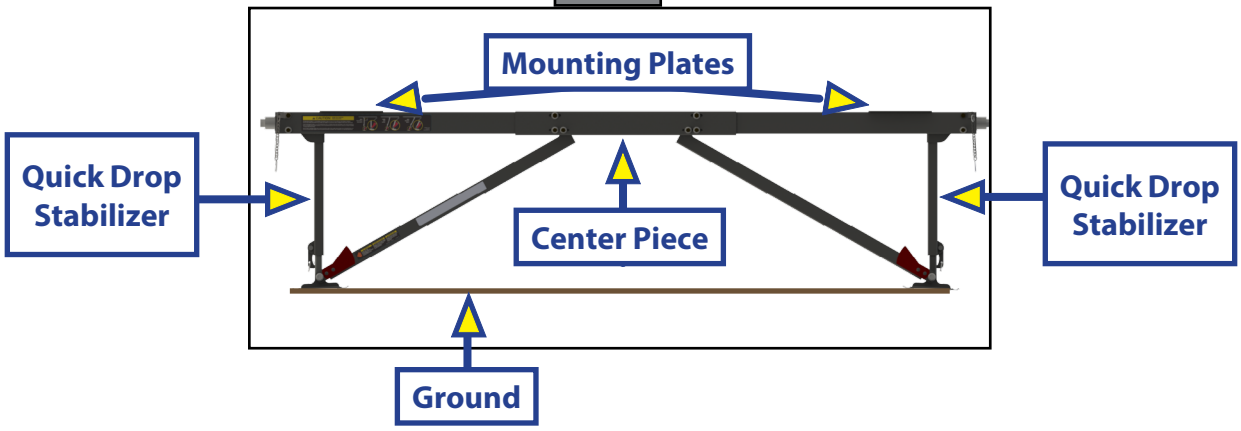
Note: The stabilizing systems are shown for reference only to help mark proper locations. Any location outside these guidelines will need Lippert engineering approval.

Fig. 1



Note: Figure 2 shows the Quick Drop Stabilizers extended to the ground as if facing the front or the back of the chassis.

Fig. 2



Attaching Stabilizers

Note: Do not weld Quick Drop Stabilizers system to the trailer. Welding the system to the trailer voids all warranty claims.

Note: Support chassis in accordance with the manufacturer's recommendations.

1. Consider the following depending on the placement of chassis during assembly:
   A. If chassis is not inverted (right side up), manually crank the system upward so the mounting brackets match up to the main frame rails. Once safely secure, place the stabilizer under the main frame rails (Fig. 3).
   B. If chassis is inverted (upside down), place the stabilizer under the main frame rails (Fig. 5).
2. Lay or mount stabilizer assembly across the unit, from frame to frame, and center. The stabilizers mounting brackets should equally extend over and outward from the frame outer web (Fig. 3 and 4). Make sure stabilizer is center and mounting brackets are extending equal distance.

Fig. 3

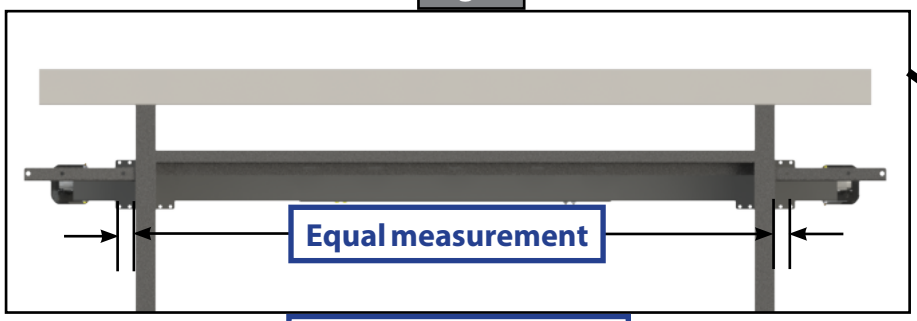
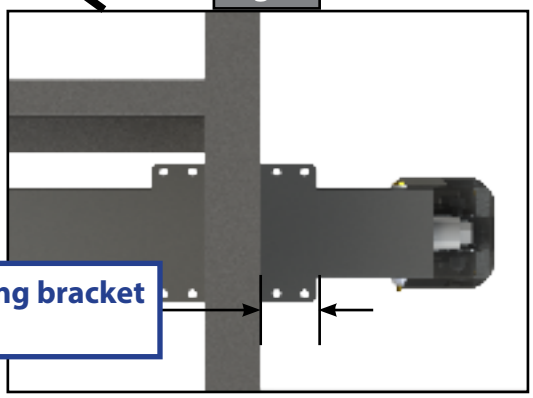
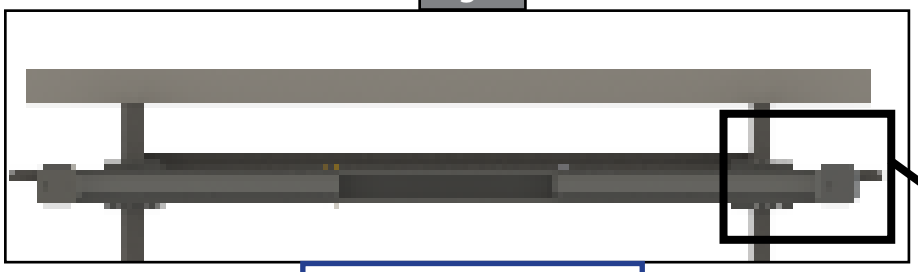


Fig. 4



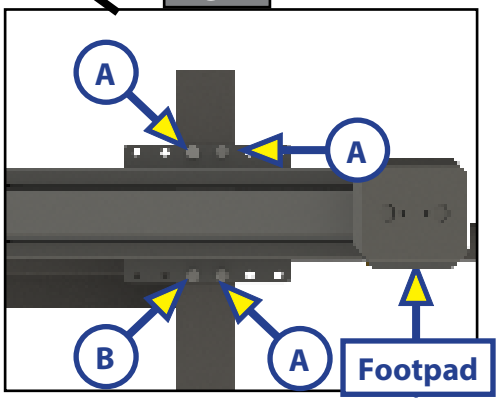
3. Install six (6), 3⁄8" self-drilling screws, three (3) per end, in the Fig. 6A positions.
4. Drill two (2) 7⁄16" diameter mounting holes in the main frame rails (Fig. 6B).

Fig. 5



Quick Drop Stabilizer, upside down

Fig. 6



5. Using two (2) 3⁄8" bolts and flange nuts, securely fasten the stabilizer to the main frame rails with one (1) bolt and flange nut per mounting bracket in the Fig. 6B locations. Torque nuts to 23 ft-lbs.

Adjusting Overall Width of Installation

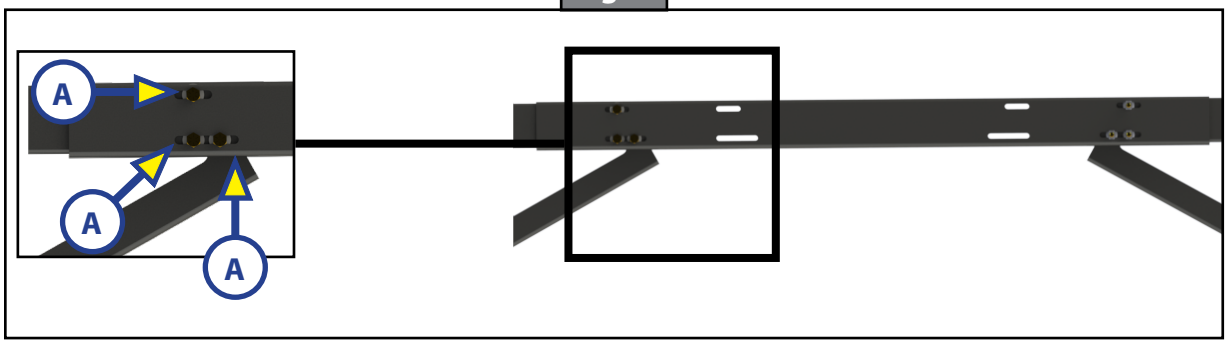
The Quick Drop Stabilizer system width can be adjusted to better accommodate the frame rails. It may be necessary to adjust to get equal measurements and/or to get better alignment of the holes to the I-Beam.

1. Loosen 3 bolts (Fig. 7A).
2. Do not fully remove the nut.
3. Slide the jack leg in the slots to the required position.
4. Re-tighten the nuts and bolts (Fig. 7A).

Note: Do not over tighten the nuts as this can cause the system to bind.

Note: It may be necessary to repeat process on other side depending on size needs.

Fig. 7



Installation, Variation 2: 1 Quick Drop Stabilizer Leg Angled Application w/ no center piece

Resources Required

- Cordless or electric drill or screw gun
- Appropriate drive bits
- Appropriate drill bits
- Tape measure
- Torque wrench
- 3/8" x 1" self-drilling screws
- 3/8" x 1" bolts
- 3/8" x 1" flange nuts
- 1/4" x 1" tek screws

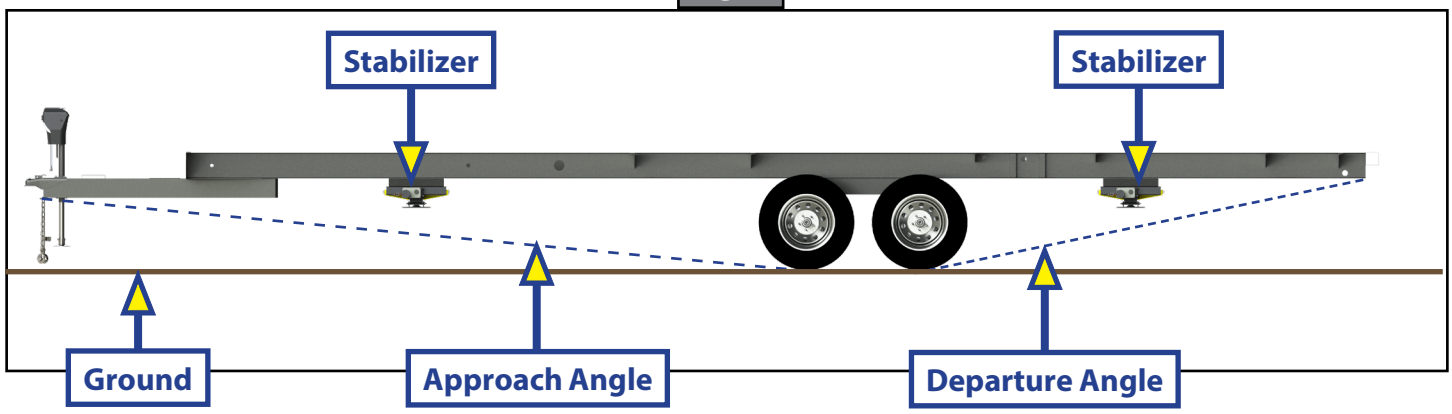
Small Hardware Parts Breakdown			
Part	Single (1) Leg	Two (2) Legs	Four (4) Legs
3/8" x 1" self-drilling screws	3	6	12
3/8" x 1" bolts	1	2	4
3/8" x 1" flange nuts	1	2	4
1/4" x 1" tek screws	1	2	4

Determine Stabilizer Location(s)

1. The stabilizers can be mounted at any point between the rear axle hanger and the bumper while making sure they stay within the departure angle while also maintaining at least 16" of clearance between ground and mounting plate. The front stabilizer can be mounted anywhere as long as the system remains within the approach angle while also maintaining at least 16" of clearance between ground and mounting plate.
2. To measure approach and departure angle, run 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. 8).

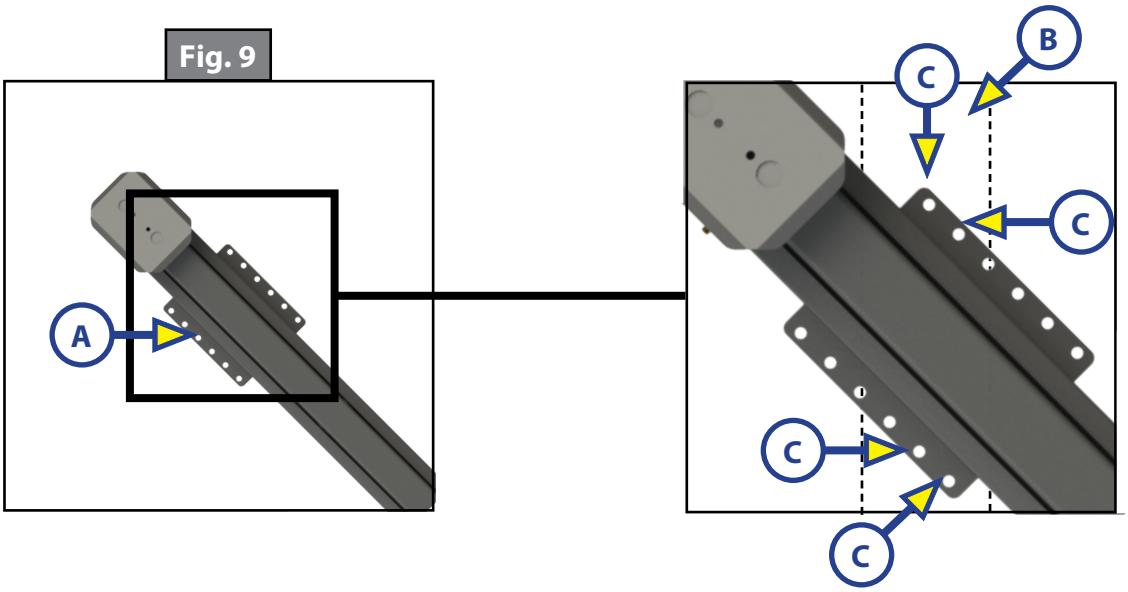
Note: The stabilizing systems are shown for reference only to help mark proper locations. Any location outside these guidelines will need Lippert engineering approval.

Fig. 8



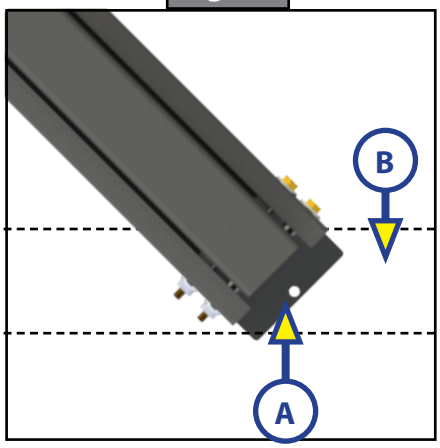
3. The mounting brackets (Figure 9A at the end of the Quick Drop Stabilizer where the legs are lowered) will have to be attached to the frame (Fig. 9B). Four (4) of the mounting holes (Fig. 9C) will be used, two (2) on each side and across from one another.

Fig. 9



4. The end mounting hole (Fig. 10A) (at the other end of the Quick Drop Stabilizer that is inside the frame and under the unit) will need to be attached to a cross beam (Fig. 10B).

Fig. 10



Attaching Stabilizers

Note: Do not weld Quick Drop Stabilizers system to the trailer. Welding the system to the trailer voids all warranty claims.

Note: Support chassis in accordance with the manufacturer's recommendations.

1. Using determined position, visually determine that the mounting bracket end and the center mounting hole will actually attach to frame and cross member.
2. Install three (3), ⅜" self-drilling screws in the Fig. 11A positions; attaching mounting bracket to the frame.
3. Drill one (1) 7⁄16" diameter mounting hole in the main frame rails (Fig. 11B).
4. In that location, use one (1) ⅜" bolt and flange nut to securely fasten the stabilizer to the main frame rails with one (1) bolt and flange nut per mounting bracket in the Fig. 11B locations. Torque nuts to 23 ft-lbs.
5. Drill 1/4" tek screw through the mounting hole into the cross member (Fig. 12A).
6. Repeat process if additional Quick Drop Stabilizer legs are being installed.

Fig. 11

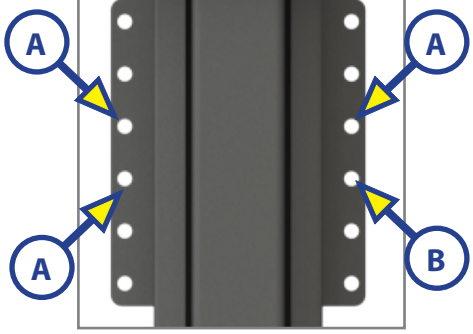
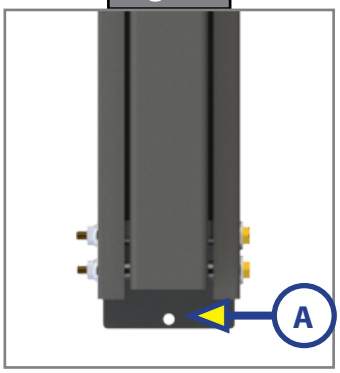
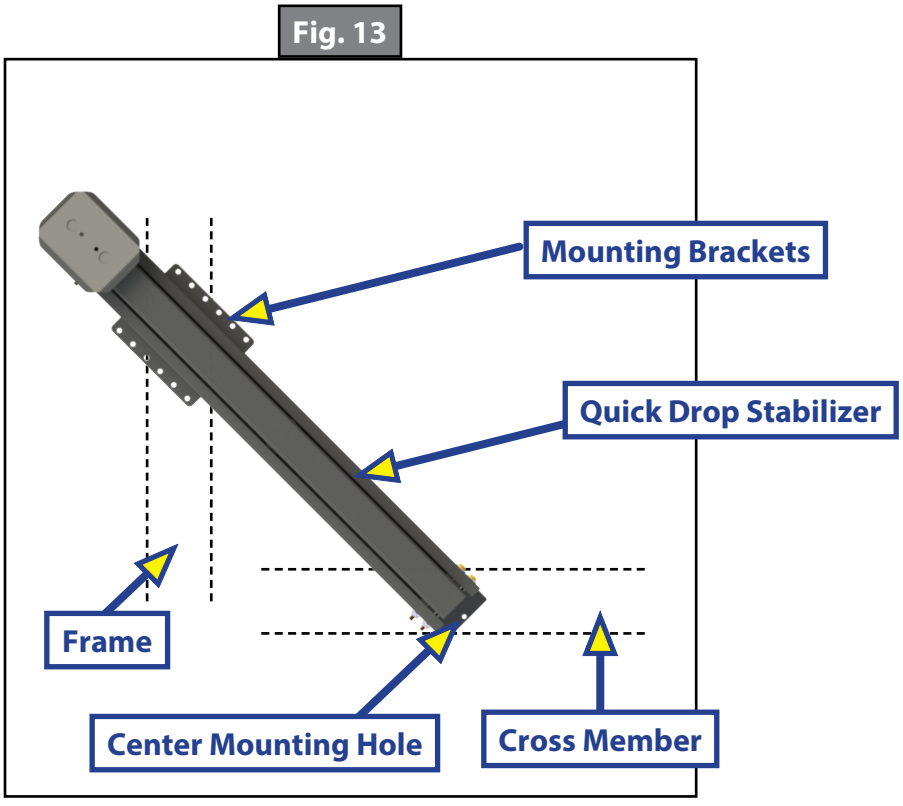


Fig. 12



Note: Figure 13 shows mounting location with more clarity.

Fig. 13



Installation, Variation 3: 1 Quick Drop Stabilizer Leg Straight Application w/ no center piece

Resources Required

- Cordless or electric drill or screw gun
- Appropriate drive bits
- Appropriate drill bits
- Tape measure
- Torque wrench
- 3/8" x 1" self-drilling screws
- 3/8" x 1" bolts
- 3/8" x 1" flange nuts
- 1/4" x 1" tek screws

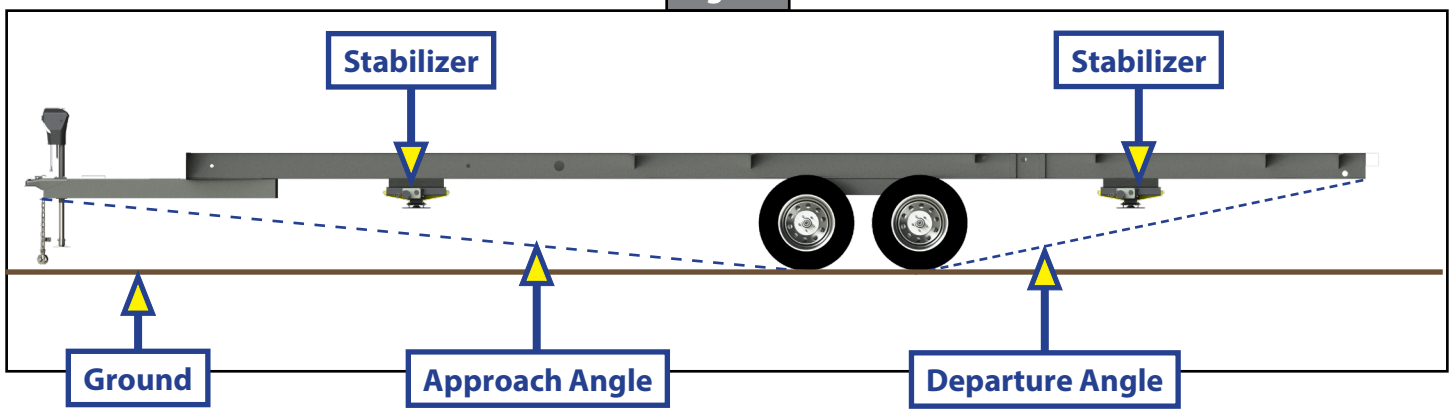
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3/8" x 1" self-drilling screws	3	6	12
3/8" x 1" bolts	1	2	4
3/8" x 1" flange nuts	1	2	4
1/4" x 1" tek screws	1	2	4

Determine Stabilizer Location(s)

1. The stabilizers can be mounted at any point between the rear axle hanger and the bumper while making sure they stay within the departure angle while also maintaining at least 16" of clearance between ground and mounting plate. The front stabilizer can be mounted anywhere as long as the system remains within the approach angle while also maintaining at least 16" of clearance between ground and mounting plate.
2. To measure approach and departure angle, run 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. 14).

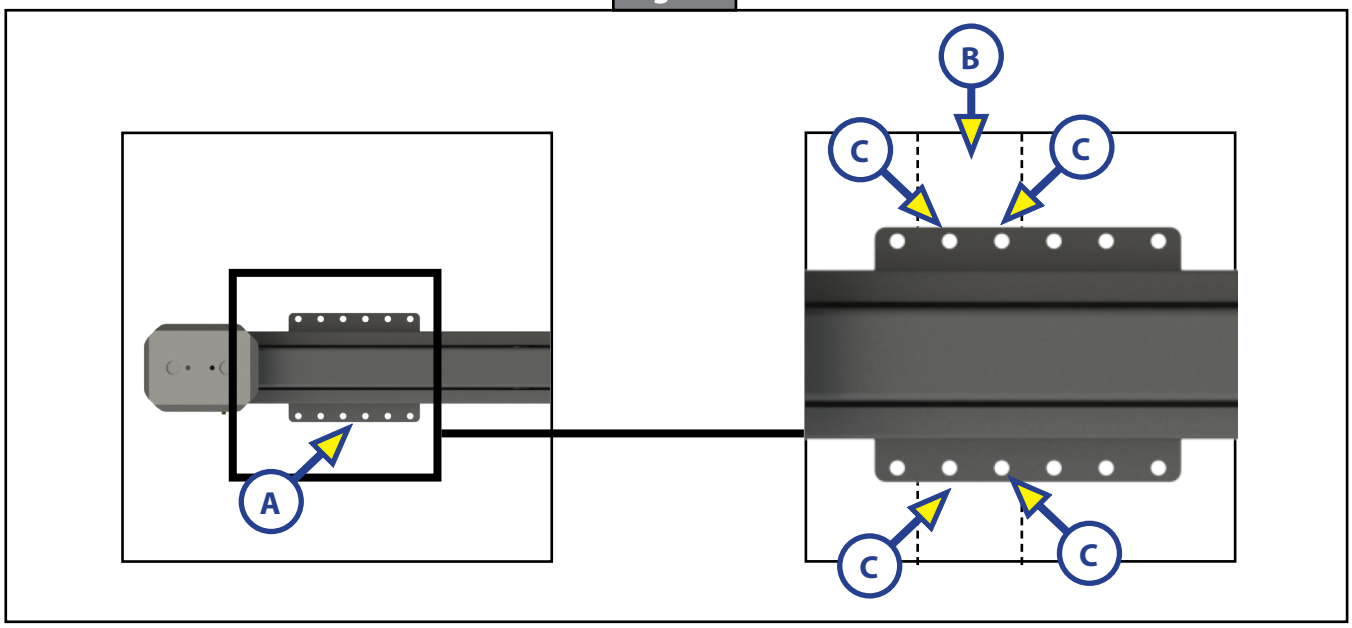
Note: The stabilizing systems are shown for reference only to help mark proper locations. Any location outside these guidelines will need Lippert engineering approval.

Fig. 14



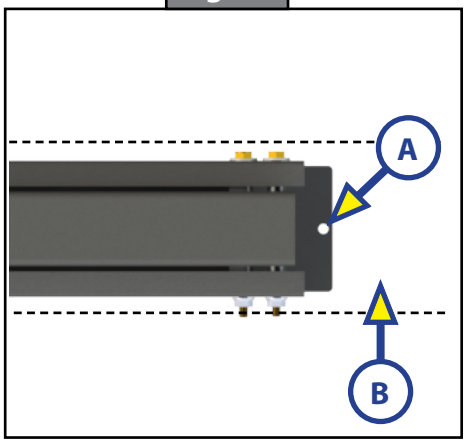
3. The mounting brackets (Figure 15A at the end of the Quick Drop Stabilizer where the legs are lowered) will have to be attached to the frame (Fig. 15B). Four (4) of the mounting holes (Fig. 15C) will be used; two (2) on each side and across from one another.

Fig. 15



4. The end mounting hole (Fig. 16A) (at the other end of the Quick Drop Stabilizer that is inside the frame and under the unit) will need to be attached to a cross beam (Fig. 16B).

Fig. 16



Attaching Stabilizers

Note: Do not weld Quick Drop Stabilizers system to the trailer. Welding the system to the trailer voids all warranty claims.

Note: Support chassis in accordance with the manufacturer's recommendations.

1. Using determined position, visually determine that the mounting bracket end and the center mounting hole will actually attach to frame and cross member.
2. Install three (3), ⅜" self-drilling screws in the Fig. 17A positions; attaching mounting bracket to the frame.
3. Drill one (1) 7⁄16" diameter mounting hole in the main frame rails (Fig. 17B).
4. In that location, use one (1) ⅜" bolt and flange nut to securely fasten the stabilizer to the main frame rails with one (1) bolt and flange nut per mounting bracket in the Fig. 17B locations. Torque nuts to 23 ft-lbs.
5. Drill 1/4" tek screw through the mounting hole into the cross member (Fig. 18A).
6. Repeat process if additional Quick Drop Stabilizer legs are being installed.

Fig. 17

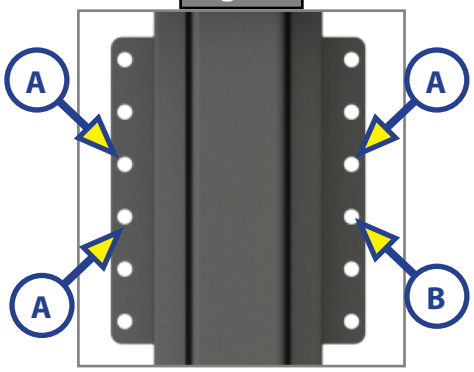
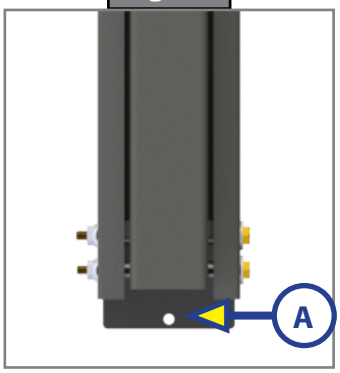
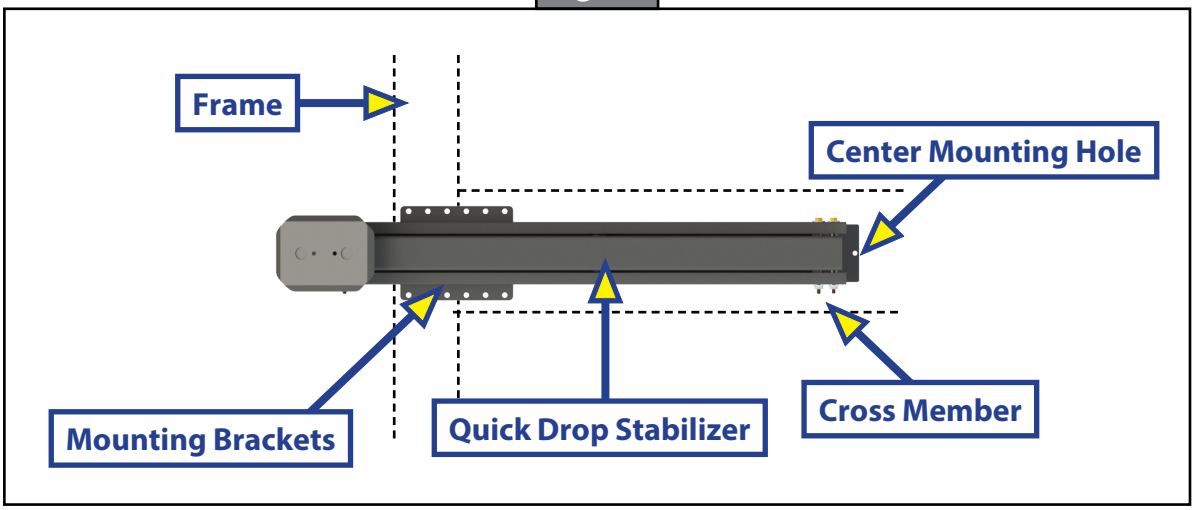


Fig. 18



Note: Figure 19 shows mounting location with more clarity.

Fig. 19



Post Installation Verification

⚠ CAUTION

Quick Drop Stabilizers are 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.

⚠ 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.

Resources Required

- 3/4" socket
- Ratchet (optional)
- Cordless drill (optional)
- Appropriate drive bits (optional)

Note: The Quick Drop stabilizer is extended and retracted with the use of a 3/4" socket on the hex coupler (FIg. 21A). A ratchet or cordless drill may be used, however an impact drill is not recommended and can cause damage to the mechanism.

Extending the Quick Drop Stabilizer

1. Disconnect the safety chain (Fig. 20A) from the footpad (Fig. 20B).
2. Crank the hex coupler (Fig. 21A) clockwise to begin lowering the footpad towards the ground.

Fig. 20

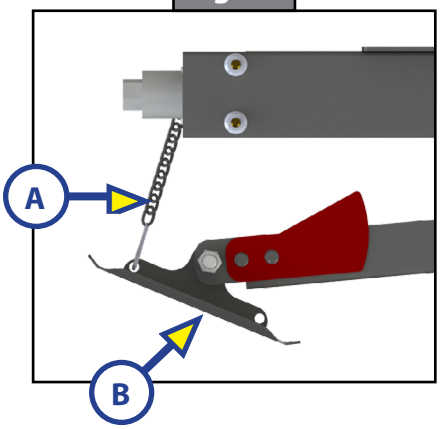
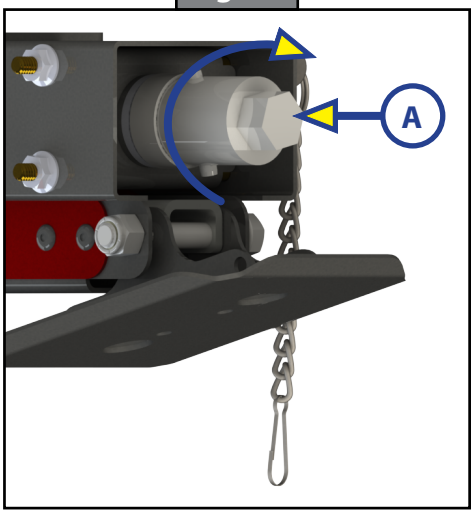


Fig. 21



⚠ CAUTION

Use of an impact drill is not recommended and will cause damage to the mechanism.

3. The catch pawl (Fig. 22A) holds the Quick Drop leg (Fig. 22B) in place. Pull the catch pawl to maneuver the quick drop leg into position and release when desired position is achieved (Fig. 23A).

Fig. 22

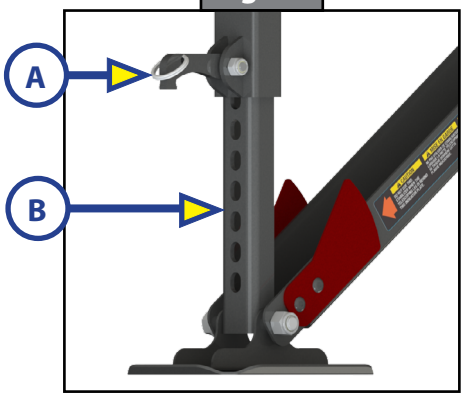
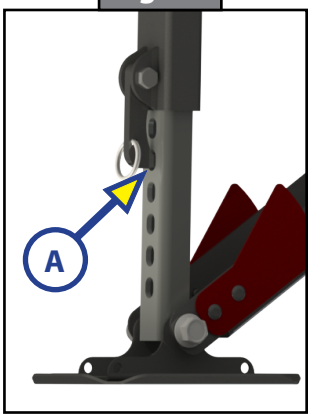


Fig. 23



⚠WARNING

Quick retracting stabilizers can pinch, cut, scratch or injure fingers and hands. Keep clear and use caution when operating stabilizers to avoid personal injury.

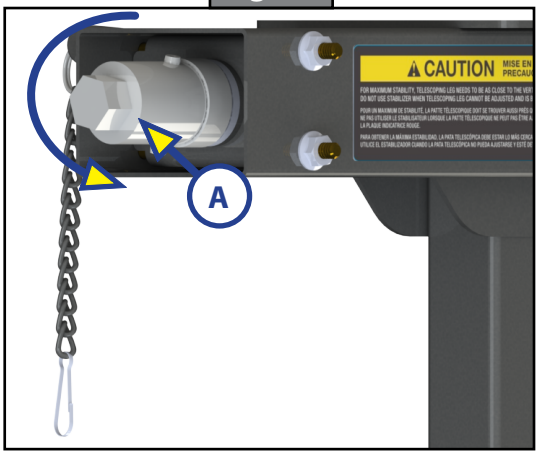
⚠CAUTION

Once the stabilizer legs have been extended, do not use the tongue jack on a travel 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 the Quick Drop Stabilizer

1. Turn the hex coupler counterclockwise (Fig. 24A) to begin retracting the footpad.

Fig. 24



2. Pull the catch pawl, and return the Quick Drop leg to the fully retracted position. Release the latch and finish retracting the footpad by turning the hex coupler counterclockwise.
3. Allow the Quick Drop Leg and Inner Arm to fold up into the Assembly Body, followed by the Outer Arm so the Quick Drop Stabilizer is fully retracted.
4. Loop the spring hook (Fig. 20A) into one of the four holes on the footpad.
5. Repeat process for other stabilizer legs.

⚠CAUTION

Do not over tighten the hex coupler while retracting the Quick Drop Stabilizer.

Troubleshooting

What Is Happening?	Why?	What Should Be Done?
Binding at the ends of stroke of the system and all debris has been cleared from the lead screw.	5 bolts might have been overtightened and have begun to collapse the sheet metal which is causing the rollers to be bound.	Check the 5 bolts and make sure that they are not over tightened.
Hex coupler is difficult to turn.	Debris in mechanism.	Remove debris and clean mechanism with mild soap and water. Apply a light coating of lithium-based lubricant to the acme screw and pivot points.

Notes

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