

# Easy Slider

## Installation, Operation, Service & Maintenance Guide

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### INSTALLATION:

The Easy Slider requires a minimum of 6 1/2" operating height. Check that the trailer has 6 1/2" between the bolster (bottom) plate and the trailer floor.

The Easy Slider unit is factory assembled by tack welds only. This prevents warping of the bolster plate prior to installation in the trailer. Follow the instructions below during Easy Slider installation.

**CAUTION:** Installation diagrams are for illustrative purposes only. Ensure adequate engineering is done to maintain the original strength of the trailer.

1. If retrofitting, remove the floor in the area above the Easy Slider bolster plate. Check for the minimum height requirement. Remove the existing bolster plate and kingpin.
  2. Using a straight edge, ensure that the trailer rails and cross members are true. The Easy Slider is designed and tested to operate in a true mounting surface only. If the Easy Slider is installed onto a trailer where the mounting surface is not true, binding will occur. Position the Easy Slider bolster plate against the underside of the trailer, and note which cross members must be notched/reinforced to allow the assembly to fit flush with bottom of the trailer. Either notch and reinforce cross members or replace cross members with ones of appropriate size and strength. Cross member centers, in the Easy Slider area, must be spaced no greater than 22 inches apart. DO NOT weld or position a cross member above the Easy Slider housing. This area must be accessible for maintenance purposes.
  3. Refer to Figure 1.
    - a) Position the Easy Slider assembly so that the kingpin is in the correct desired position.
    - b) DO NOT weld or position a cross member above the Easy Slider housing. This area must be accessible for maintenance purposes.
    - c) Weld the Easy Slider bolster plate to the trailer cross members and rails.
    - d) Weld the cross members to the channel covering the slide bar.
  4. Weld the Easy Slider housing and channels to the bolster plate. The unit is only tack welded at the factory to prevent the bolster plate from warping prior to installation. Stitch weld the channel and housing as shown by the red lines in Figure 1.
  5. Install a third gladhand on the trailer in a location that is easily identifiable from the other gladhands. Label the gladhand with the label provided. Connect an airline from the third gladhand to the Easy Slider air pot. (For Easy Sliders with two lockpins, run the airline to a tee on the front air pot, then from the tee to the rear air pot). Tie-wrap the airline to the frame to prevent it from being damaged.
  6. If the Easy Slider is to be completely enclosed (ie. covered with a floor) proceed with step 6. Otherwise, proceed to step 7.
  7. Install a grease zerk on the outside of the frame rail opposite the Easy Slider housing grease zerk. Install a grease line between the two zerks. Grease the lockpin using the outside zerk.
  8. Attach an airline to the third gladhand in order to raise the lockpin. Thoroughly grease the lockpin sides by hand.
  9. Test installation by following instructions in the Operation section (below).
  10. Install or replace the floor. If possible, construct a small (2' x 2'), removable, sealed hatch above the housing area to allow for any future maintenance.
  11. In environments where debris or ice could collect under or around the lifting mechanism, the entire mechanism should be enclosed. This will protect all parts and allow the lift fork to completely lift the lockpin. For example, an ice build up or large log chip will prevent the lockpin from raising completely.
  12. Attach the OPERATING INSTRUCTIONS label to front of trailer near the Easy Slider gladhand.
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**OPERATION:**

The Easy Slider allows you to change the kingpin position without having to disconnect the trailer from the fifth wheel or remove the load. To change kingpin position, follow the below instructions.

1. Dynamite the trailer brakes with the trailer loading valve. Remove the air supply from the trailer brake gladhand and connect it to the third (Easy Slider) gladhand.
2. Release the trailer loading valve. This will apply air to the Easy Slider air pot, which will raise the lockpin. The kingpin is now free to slide.
3. Pull the tractor ahead or back until you have reached the desired kingpin position. Apply trailer loading valve to drop the lockpin.
4. Switch the air supply from the third gladhand back to the trailer brake gladhand. Gently pull the tractor ahead or back until you hear/feel the lockpin drop into place.

**Dos and Don'ts**

The Easy Slider is a well-engineered piece of equipment and can stand up to the rigors of everyday operating conditions. However, there are precautions to take to ensure that premature kingpin wear does not occur.

DO idle the truck ahead or back when changing kingpin positions. Do not slide the kingpin to the end positions too quickly. Changing kingpin position “on the fly” will result in damage to the entire assembly and kingpin. This constitutes abuse and voids the Easy Slider warranty.

DO grease the lockpin regularly. Failure to do so will cause lockpin to seize into place.

DO NOT use a greaseless nylon (or similar) plate on your fifth wheel. Using such a device essentially changes the thickness of the bolster plate and requires the installation of a longer kingpin. Use of such device constitutes misuse and voids Easy Slider warranty.

**SERVICE:****Replacing a kingpin slide bar assembly**

Follow these steps when the kingpin slide bar assembly is worn out and needs to be replaced:

1. Check that the Easy Slider is accessible from the floor of the trailer. You will need access to the easy slider casting and channels.
2. Using a grinder with a cut off wheel, remove the weld around the Easy Slider Casting until you can remove the Easy Slider Housing (Item 5, Fig. 1) from the bolster plate. Set casting aside.
3. Using a grinder with a cut off wheel, remove the weld around the rear channel weldment (Item 3, Figure 1). Completely remove the channel weldment from the bolster plate and set it aside.
4. Remove the worn king pin slide bar assembly from the bolster plate. Inspect the bolster plate for debris and if necessary remove any debris present. Check the bolster plate for excess wear. If the bolster plate integrity has been compromised contact your Easy Slider dealer.
5. Apply grease liberally to the new king pin slide bar assembly and place it on the bolster plate in its normal functioning position.
6. Place the original casting back on top of the king pin bar assembly, mating it with the forward channel weldment that is still welded to the bolster plate.
7. Place the original rear channel weldment into place mating it up with the original casting.
8. With both the casting and rear channel in place make sure that the lock pin is free and can drop in to all slots on the sliding king pin assembly.
9. Tack-weld the rear channel weldment and the casting into place.
10. Recheck that the lock pin is free and can drop in to all slots on the sliding king pin assembly.
11. Finish weld around the rear channel and the casting.

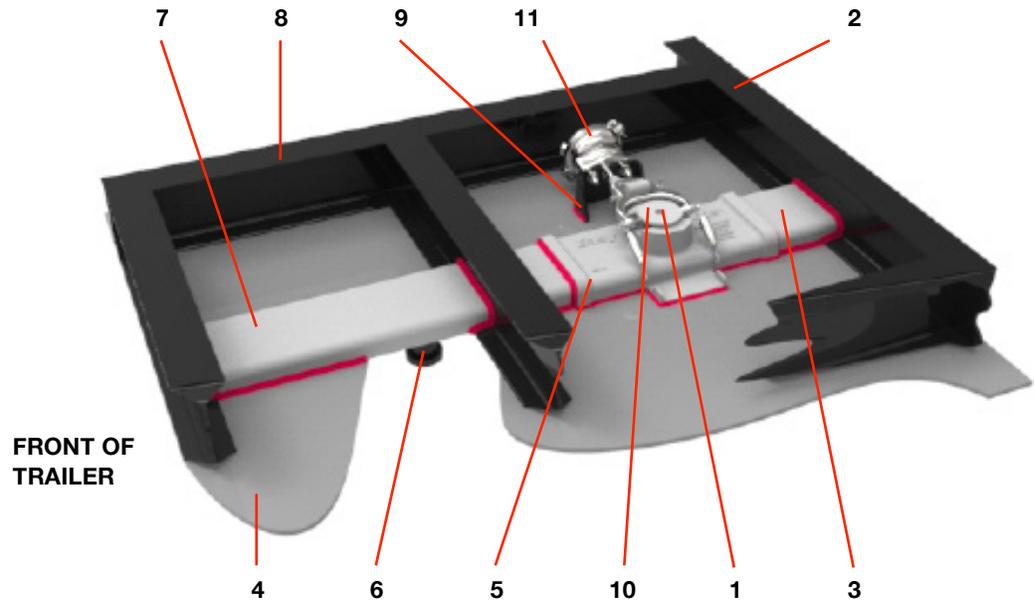
## MAINTENANCE

**At every regularly scheduled trailer service, or at a maximum of 250 hours, perform the following maintenance checks:**

1. Apply grease to the lock pin grease zerk
  - a. You cannot over grease the lock pin. Failure to grease the lockpin will result in lockpin seizure. Visually inspect the king pin for wear
  - a. The king pin wear tolerance is as per SAE J2228. The leading face of the king pin at the bolster plate height should also be examined for excess grooving and wear.
2. Visually inspect that the lock pin drops fully down to engage bolster plate.
3. Activate the lock pin to ensure that the easy slider operates properly.
4. Cycle the lock pin up and down. Listen for any air system leaks.

**At yearly commercial vehicle inspection intervals perform the following maintenance checks:**

1. Review the trailer per CVIP requirements which includes evaluating the wear and movement of the Easy Slider king pin assembly
  - a. If any excessive motion or wear is identified on the kingpin assembly, refer to the Link Mfg. Easy Slider Wear Guide for details on how to proceed. For immediate assistance contact Link Mfg. customer service: 800-222-6283 *toll-free* | 712-722-4874 *phone*.
2. Complete all regularly scheduled maintenance checks listed above.

**FIGURE 1: EASY SLIDER INSTALLATION WELDING DIAGRAM**

1. GREASE ZERK
2. TRAILER CROSSMEMBER
3. REAR CHANNEL
4. BOLSTER PLATE
5. EASY SLIDER HOUSING
6. KING PIN
7. FORWARD CHANNEL
8. TRAILER RAIL
9. AIR CHAMBER MOUNTING BRACKET
10. LOCK PIN
11. AIR POT

**WELD SEQUENCE:**

1. TRAILER CROSSMEMBERS AND TRAILER RAILS TO BOLSTER PLATE.
2. TRAILER CROSSMEMBERS TO CHANNELS.
3. CHANNELS AND EASY SLIDER HOUSING TO BOLSTER PLATE.
4. AIR CHAMBER MOUNTING BRACKET TO BOLSTER PLATE.

