



## BL400 Bed Lift

**Warning!** This bed lift is a very powerful tool and if used improperly could result in serious injury or death.

Be aware that this bed will raise and also lower with crushing force, and has the capability to inflict serious injury to the operator or bystanders if proper precautions are not followed.

Never allow children to operate this lift, or be around the Chuckwagon while the bed lift is being used.

Keep hands, feet, etc, and loose clothing out of the way while operating the lift.

Never operate this lift while under the influence of drugs or alcohol.

Always distribute the load evenly.

Never exceed the weight capacity of 400 lbs in the bed.

Reduce speed accordingly when your Chuckwagon is loaded, and while dumping the load. Use extreme caution when on hills or grades. The center of gravity will change when dumping or carrying loads. Never exceed 5 mph when loaded.

Parts list;

(1) Cylinder

(1) Upper bracket

(2) 3/8" Bolts with (2) 3/8" Flange nuts

(1) Lower bracket

(2) U-bolts with (4) 5/16" nuts

(2) 1/2 X 2 1/2" bolts

(2) 1/2" Nuts

(2) 1/2" Nylock Nuts

(1) Wire Harness

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## Installation Instructions

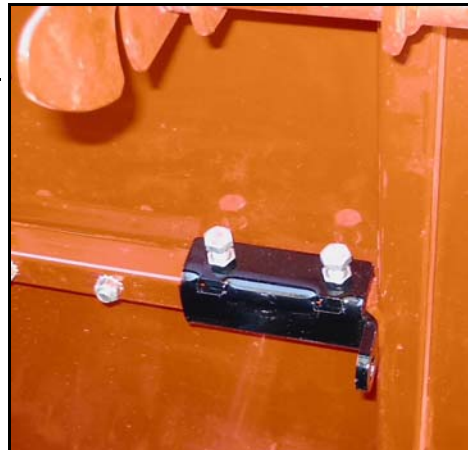
Installation of this bed lift requires some technical skill. If you are uncomfortable with any part of this installation you should seek professional help from your Authorized Service Center, or Brister's Dealer. If this bed lift is improperly installed; injury to yourself, or damage to the bed lift and / or Chuckwagon may result.

Remove the seat and the tray under the seat. Remove left fender.

Remove and discard the 3/8" latch bolt from the left side of the chassis. This bolt **must not** be used with the lift. See photo below.



Install upper bed bracket. See photos below. The photo on the left depicts the top bracket with the flange nuts and bolts assembled, and ready to mount. The photo on the right depicts a properly installed bracket. Note that the nuts install into the bracket from the **inside**. Make sure the bracket is positioned exactly as shown below, and snug against the driver's side square tube. Tighten to 31 ft-lbs.



Install lower bed bracket, but **do not tighten**. Bracket must be left loose for final adjustment. See photos below. The photo on the left shows a properly installed lower bracket. The upper U-bolt must install above the bed-lift strap as in the photo on the right. **If your bed bracket has slots to receive the U-bolts; position bracket so that it is as far away from the engine as possible.**



Install 1/2" bolts in both eyes of the cylinder. See photos below. Run the 1/2" nuts down to the cylinder eye, but **do not** tighten. Do **not** use the Nylock nuts for this step.



Fasten the cylinder to the lower bracket with the Nylock nut as shown in photo below. A cutaway has been provided for clarity in the photo. The two ½” nuts (¾” wrench) should tighten against each other, and secure the cylinder to the bracket, but the bolt **must remain free** in the eye of the cylinder. This is necessary to allow the bed to move freely up and down. Tighten these nuts to 76 ft-lbs. Do not fasten to the top (bed) bracket yet. Let the top of the cylinder rest on the tire.



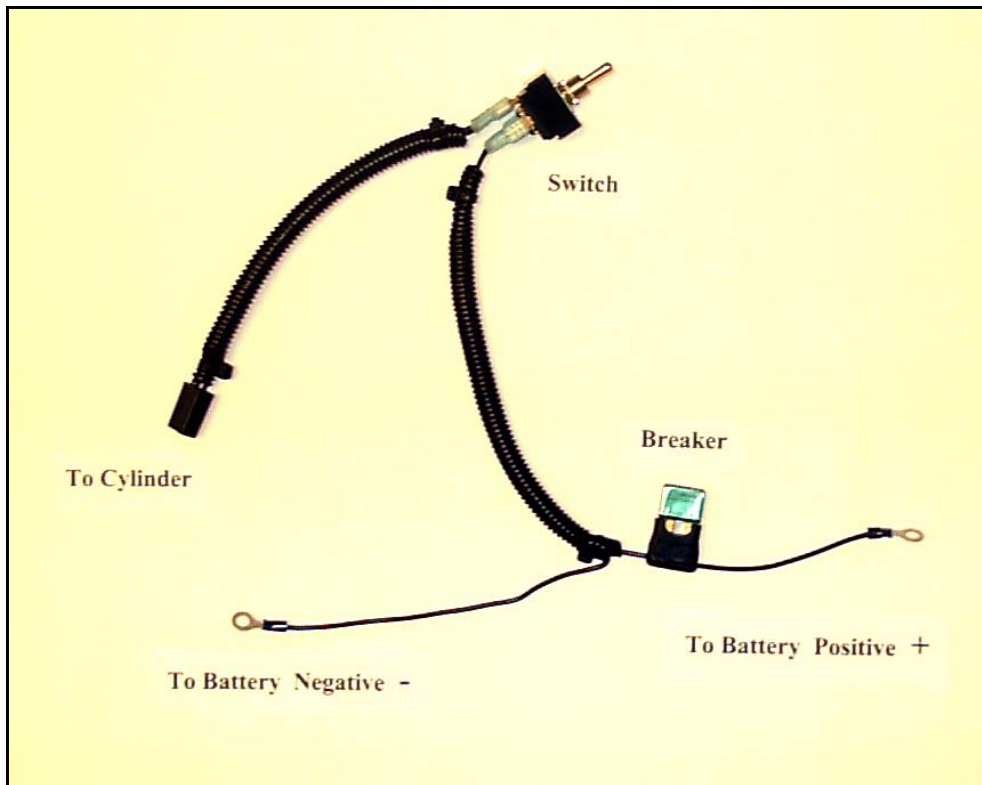
The plastic below, and on the left side of the seat, receives a ½” hole. The “X” in the photo below shows the location of that hole. The black plastic is depicted as white in the photo. The ½” hole locates 1½ inches below the arm rest and 1½ inches forward of the frame tube.



Using a 1/2" drill bit; drill the hole in the plastic, and install the toggle switch. The photo on the right shows a properly installed toggle switch.

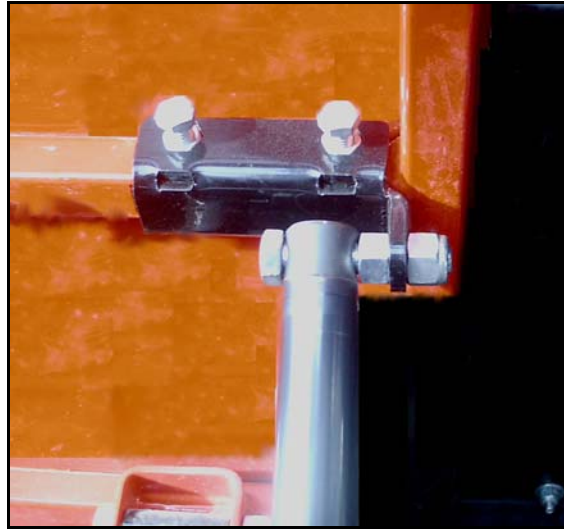


Install the lead of the wire **with the breaker** to the positive (+) post on the battery, and then install the remaining lead to the minus (-) post. Plug the appropriate leads into the cylinder motor. See diagram below.



Extend the cylinder fully by operating the switch. The rod may have to be held by hand to prevent turning, and allow the cylinder to fully extend. The switch should be oriented so that the cylinder extends when the switch is held in the “up” position. Loosen and rotate the switch if necessary to orient the switch properly.

With the cylinder extended; the bed can now be fastened to the cylinder. Bolt the upper end of the cylinder to the bed in the same manner as the lower mount. Upon completion, the bolt **must be free** in the bore of the cylinder. Torque this fastener to 76 ft-lbs.



Lower the bed by retracting the cylinder. With the bed lowered, and the cylinder fully retracted; the lower bed bracket may **only now** be tightened. This step is important, as the positioning of the lower bracket is fundamental to the proper lowering of the bed. If the bracket is positioned too low; the cylinder will not be able to fully retract and damage to the brackets will occur. If the bracket is positioned too high, the bed will not fully lower, and the bed may rattle or move around.

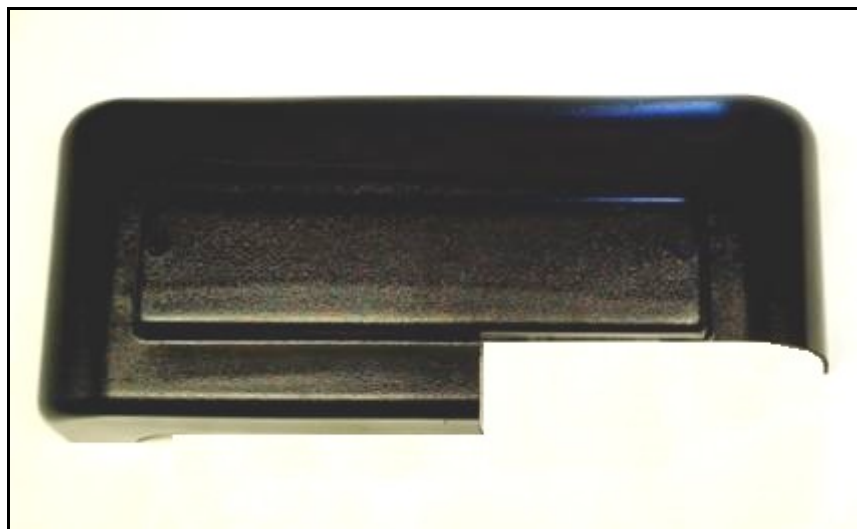
When properly positioned, the cylinder will reach the bottom of its stroke and “ratchet” just as the bed is snug against the chassis.

The cylinder has clutches that make a “ratcheting noise” in the fully extended and fully retracted position. This ratcheting noise is normal, do not be alarmed.

The left fender will need to be trimmed. Note the offset (the bolt holes are **not** in the center of the mounting boss) of the mounting holes (there is a bolt inserted into the hole for clarity in the photo), and position the fender as shown in photo below. Carefully measure 6" along the edge of the mounting boss, and mark the fender as shown. A silver Sharpie, or a white-out pen works very well to mark the black plastic.



Using a jigsaw, or other appropriate tool; carefully trim the fender along these lines. Upon completion, the fender should appear as in the photo below. The fender may now be re-installed.



Run the bed up and down several times, looking for any binding or interference. After the unit has been installed and run a few times, re-torque all the mounting hardware.