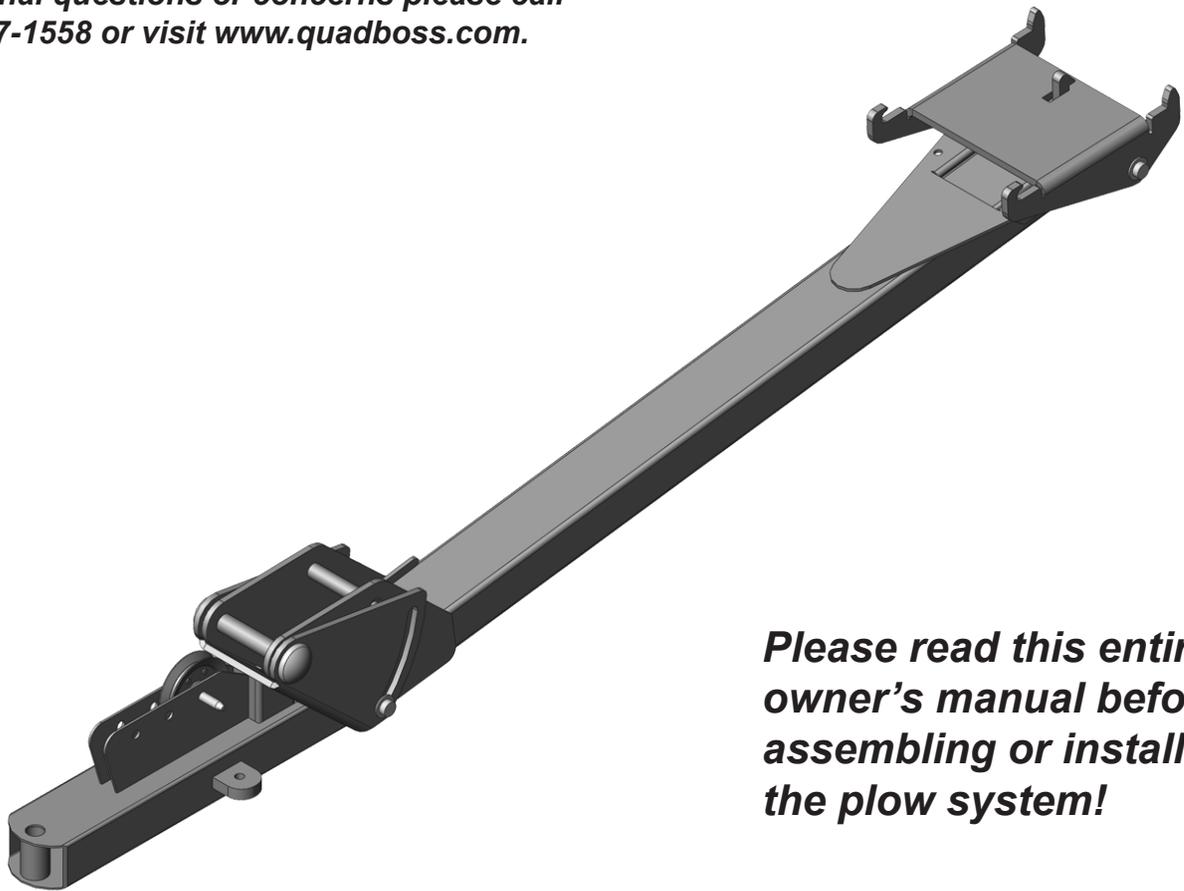




QUADBOSS UTV ARTICULATING PUSH TUBE OWNER'S MANUAL

This owner's manual covers all aspects of your new push tube including assembly, replacement parts, installation, warranty, and troubleshooting. For any additional questions or concerns please call 877-847-1558 or visit www.quadboss.com.



Please read this entire owner's manual before assembling or installing the plow system!



QUADBOSS UTV ARTICULATING PUSH TUBE SAFETY PRECAUTIONS



Read this manual completely. Failure to observe the following safety instructions could result in serious injury or death.

- Read the plow owners manual, UTV manual and all safety labels before operating.
- Do not exceed a speed of 5 MPH (8 KPH) when the blade is installed.
- Use extreme caution when operating the plow on rough terrain, slopes, steep grades or on slippery surfaces.
- Stay away from the blade and all moving parts while moving or stationary.
- When plowing snow or dirt into a pile, slow down before reaching the pile. DO NOT ram the pile with the blade. Start backing up before raising the blade.
- UTV braking and stability may be affected by the addition of an accessory or attachment. Be aware of changing conditions on slopes and wet or slippery surfaces.
- Wear safety glasses, protective head gear and footwear as recommended in the UTV operator's manual.
- Keep bystanders away from the blade and UTV at all times.
- Before adjusting the blade angle, stop the engine, set and lock the brakes. Do not lift the blade by hand. Always use the winch.
- When the blade is not in use, stop the engine, lock the brakes and lower the blade to the down position.
- Beware of objects that may be hidden under the snow.
- Stop and inspect the equipment if you strike an object. Repair if necessary before restarting.
- Do not operate the plow if it has been damaged in any manner. Repair or replace the damaged component(s) before continuing use.

Blade Warning Decal

 WARNING
<p>IMPROPER USE OF PLOW CAN CAUSE INJURY OR DEATH!</p> <ul style="list-style-type: none"> - Do not exceed 5 MPH with plow installed. - Keep bystanders away from plow while moving or stationary. - Do not hit any immovable objects with the plow or ATV. - Operate with extreme caution on slopes, steep grades and rough terrain. - Never put your fingers between the blade and wear bar. - Read plow owner's manual and ATV manual before operating. <p style="text-align: right; font-size: small;">LBTR217</p>

Pinch Point Warning Decal

 WARNING	
	<p>PINCH POINT!</p> <p>Keep hands and feet clear during operation.</p> <p style="text-align: right; font-size: x-small;">LBTR218</p>



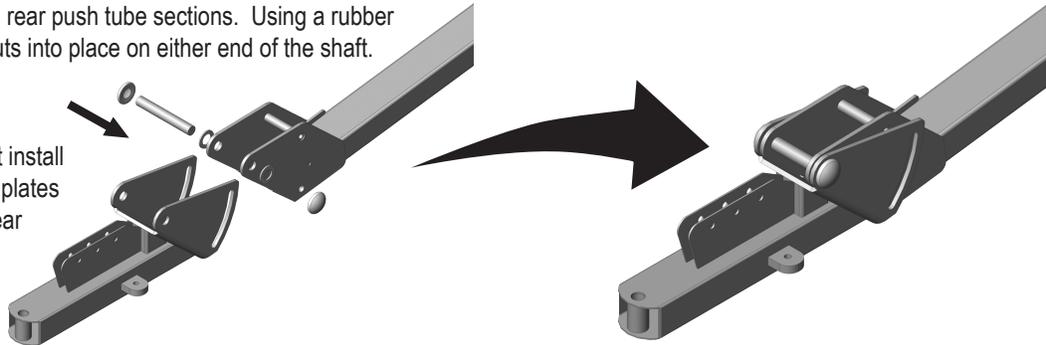
UTV ARTICULATING PUSH TUBE ASSEMBLY

Assembly

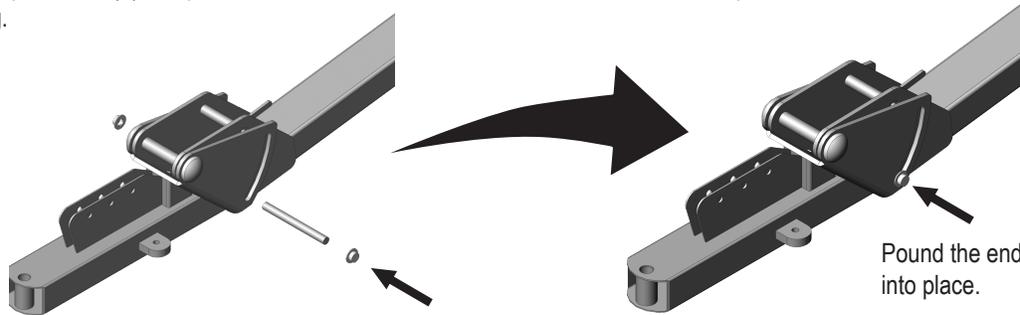
1 The Quad Boss articulating push tubes comes partially assembled for your convenience. You will simply need to attach the front section to the pre-assembled rear portion of the push tube using the following instructions.

2 Slide the front section into the rear section of the push tube. Locate the pivot shaft (N), two 3/4" flat washers (P), and two 3/4" black push nuts (M) that attach through the forwardmost upper holes in the two push tubes. Slide the shaft into place while holding the washers between the steel plates on the front and rear push tube sections. Using a rubber mallet, tap the push nuts into place on either end of the shaft.

The washers must install between the steel plates on the front and rear push tubes.

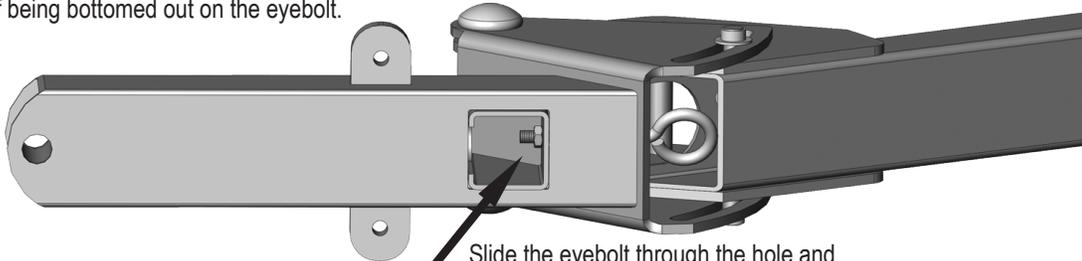


3 Install the guide shaft (Q) through the long slots in the front push tube section and into the lower holes in the rear push tube section. Using a rubber mallet, tap the 1/2" push nuts (F) into place on either end of the shaft. Move the front section up and down to make sure it articulates freely without any binding.



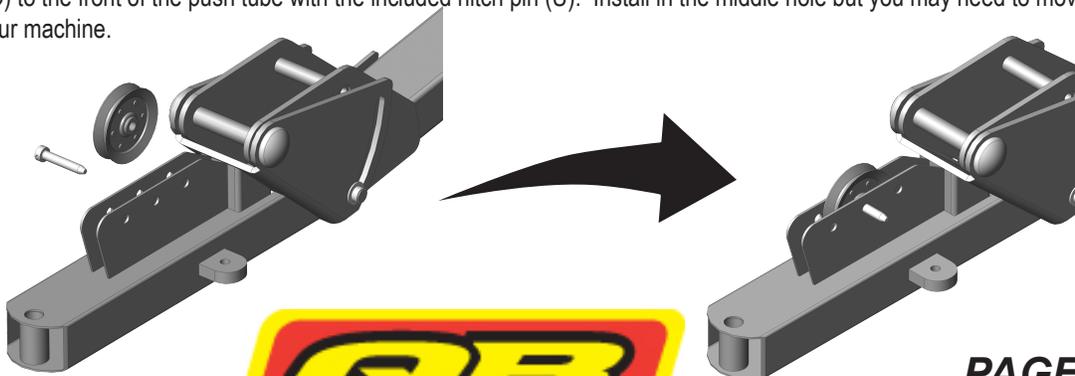
Pound the endcaps into place.

4 Locate the end of the eyebolt attached to the end of the cable (K) inside the rear push tube section. The threaded end of this eyebolt needs to slide inside the hole in the end of the front push tube section. Once through the hole, attach the 5/16" whiz nut (L) on the end from the access hole in the bottom of the front push tube section. This whiz nut will need to be tightened down almost all the way and it may be difficult to access. The easiest way to achieve this is to flip the push tube on it's side, open the front section and put a large screwdriver or prybar into the eye of the eyebolt or steel cable. You can then pry the cable assembly forward allowing you to spin the nut on by hand. For proper tension, have the nut within 1/2" of being bottomed out on the eyebolt.



Slide the eyebolt through the hole and attach the nut. Tighten almost all the way down the eyebolt.

5 Attach the pulley (O) to the front of the push tube with the included hitch pin (U). Install in the middle hole but you may need to move it later depending upon your machine.

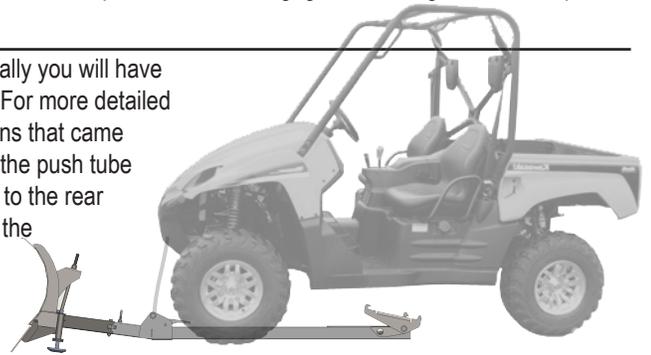


UTV STRAIGHT PUSH TUBE ATTACHMENT

This push tube is designed to attach and detach easily from the front of the machine. The pivoting plate on the back of the push tube has two hooks on the front that attach to the front of the bottom mount plate. Once hooked in the front the blade can be pushed back to engage the locking lever on the pivot plate to the bottom mount. After a few tries this can all be done in one swift motion.

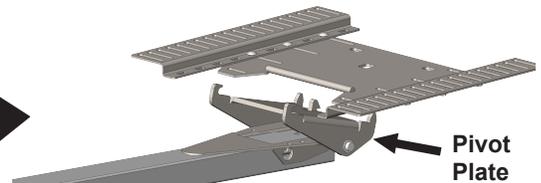
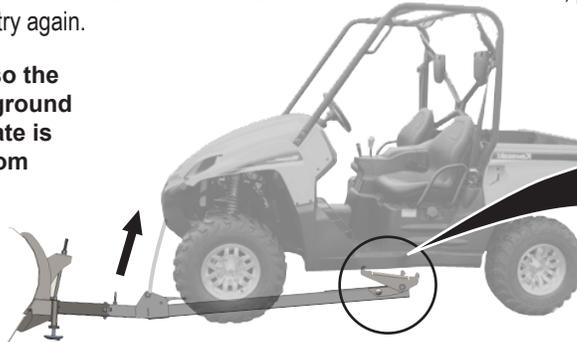
- 1 The key to an easy plow installation is setting the proper winch lifting point. Ideally you will have positioned the bottom mount 30-34 inches back from the winch roller fairlead. (For more detailed information regarding installation of the bottom mount, please see the instructions that came with the bottom mount) Position the plow under the UTV with the pivot plate of the push tube just beneath the bottom mount. Let out some winch cable and attach the cable to the rear lifting rod (Near the release handle). NOT through the pulley or front section of the push tube. This should be close to being directly beneath the roller fairlead.

Plow on ground with winch cable attached to lifting rod on push tube.



- 2 Now raise the plow with the winch until the pivot plate of the push tube hits the bottom of the UTV and the blade is a few inches off the ground. Look under the UTV to determine the placement of the pivot plate versus the bottom mount. Ideally the front pivot plate hooks will be a couple inches in front of the welded rod on the front of the bottom mount. If not, put the plow back on the ground, adjust the lifting or bottom mount location and try again.

Raise the plow so the blade is off the ground and the pivot plate is against the bottom of the UTV.

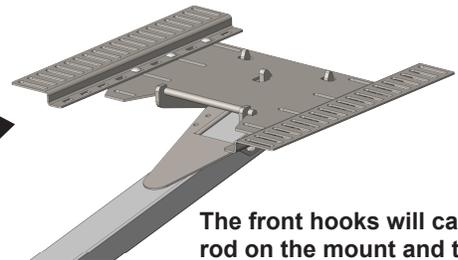
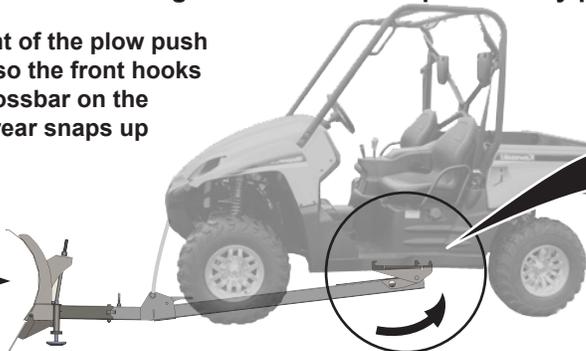


Proper position of the pivot plate and bottom mount for an easy installation.

- 3 Once you have it raised in place and positioned properly in step 2, you need to attach the plow to the bottom mount. Standing in front of the plow, pull the system back towards the front of the machine a few inches then forcefully push it backwards in one swift motion until you hear/feel it click into place. It may take you a few tries the first time you do it until you get the "feel" for it. **NOTE: Keep your feet positioned behind the plow while attaching to the machine to prevent any possible accidents!**

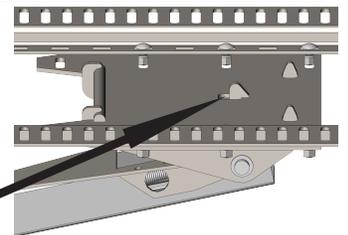
Standing in front of the plow push the blade back so the front hooks attach to the crossbar on the mount and the rear snaps up into place.

PUSH →



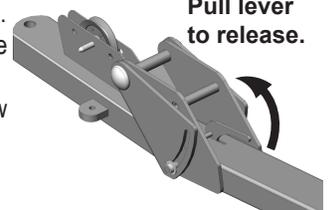
The front hooks will catch the rod on the mount and the rear of the push tube will rotate up into place.

- 4 Visually look under the UTV to confirm the push tube has fully snapped into place. **NOTE: Failure to confirm the plow is securely attached could cause damage to your plow, UTV, or person!!** Let out the winch and place the plow back on the ground. Remove the winch hook from the lifting rod. Reinstall the winch hook through the pulley and back up to the strap placed around the rack or front bumper. Raise the plow up and down to make sure it articulates properly and does not contact the machine. Do not raise the winch too high. You are now ready to plow! **REMOVAL** **The latch MUST be hooked over the bottom mount.**



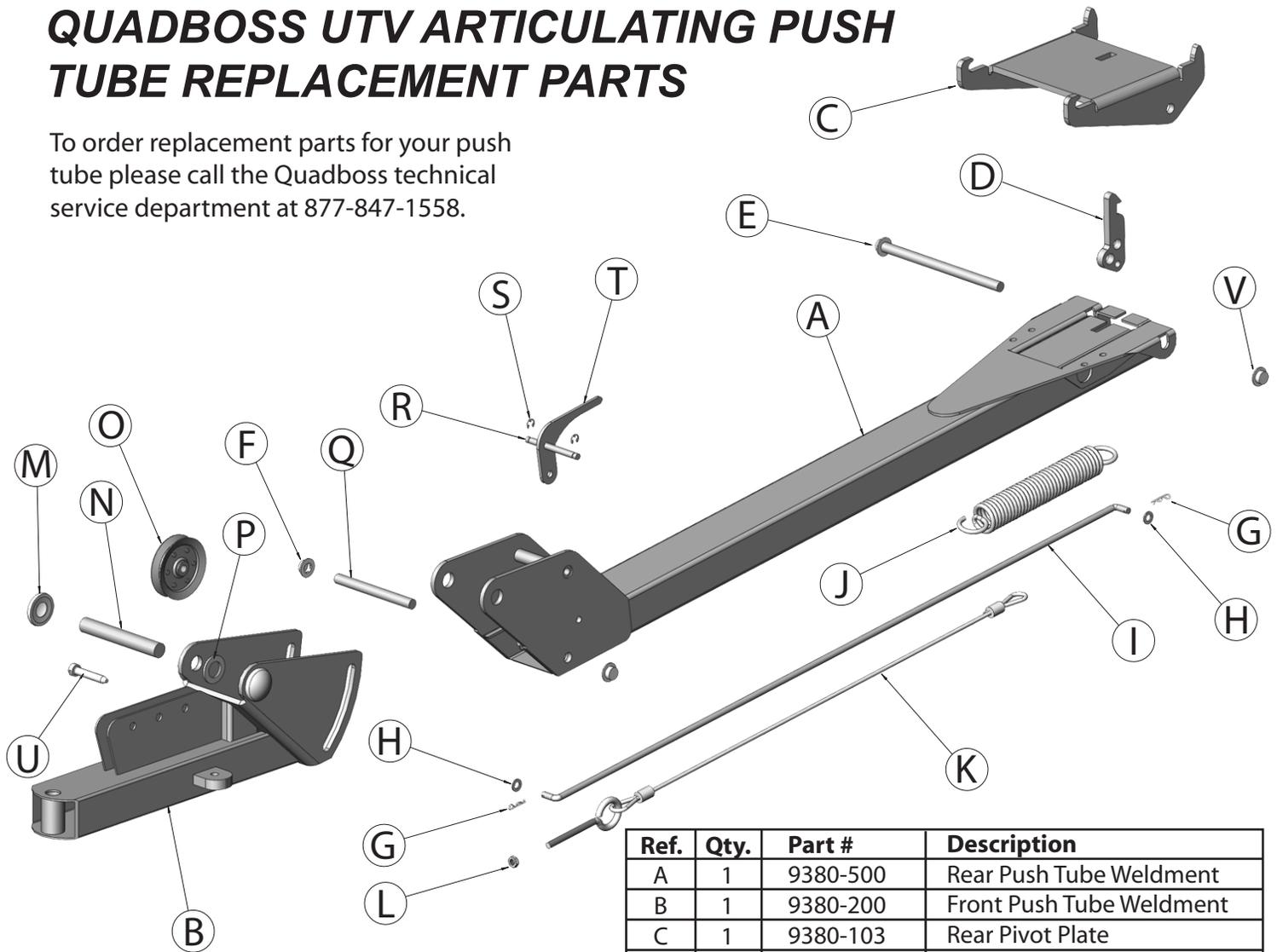
- 1 To remove the plow system, let out the winch cable so the blade is on the ground and there is some excess cable. Simply pull the release lever on the push tube while pulling forward on the blade and the pivot plate will disengage from the mount. The plow system is quite heavy so it will drop to the ground with some force. Be careful not to pinch your fingers, toes, or anything else between the push tube and ground. Remove your winch cable and draw it back up into the winch. You can now drive backwards away from the plow.

Pull lever to release.



QUADBOSS UTV ARTICULATING PUSH TUBE REPLACEMENT PARTS

To order replacement parts for your push tube please call the Quadboss technical service department at 877-847-1558.



Ref.	Qty.	Part #	Description
A	1	9380-500	Rear Push Tube Weldment
B	1	9380-200	Front Push Tube Weldment
C	1	9380-103	Rear Pivot Plate
D	1	9380-102	Latch Pawl
E	1	9380-104	Rear Attach Shaft
F	2	HDW9201	1/2" Push Nut
G	2	HDW9202	Hairpin Cotter
H	2	HDW9003	5/16" Flat Washer
I	1	9330-110	Linkage Rod
J	1	HDW2369	Spring
K	1	9330-400	Cable with Eyebolt
L	1	HDW7056	5/16" Whiz Nut
M	2	HDW2331	3/4" Push Nut
N	1	9330-106	Pivot Shaft
O	1	HDW2360	Pulley
P	2	HDW9017	3/4" Flat Washer
Q	1	9330-107	Guide Shaft
R	1	9330-108	Handle Shaft
S	2	HDW9161	1/4" E-Clip
T	1	9330-104	Release Handle
U	1	HDW2323	Wire Loop Pin
V	2	HDW9215	3/8" Push Nut



QUADBOSS ATV ARTICULATING PUSH TUBE TROUBLESHOOTING GUIDE

Below are some tips to help you resolve any problems and keep your Quadboss plow system in proper working order. After reviewing, if you still need technical assistance please call 877-847-1558.

PLOW ASSEMBLY WILL NOT ATTACH OR DISCONNECTS FROM THE BOTTOM MOUNT ON THE ATV.

1. Plow is not positioned properly. Lift the plow with the winch until the pivot plate of the push tube hits the bottom of the UTV and the blade is a couple inches off the ground. Now look under the UTV to verify the hooks on the pivot plate are centered and in front of the bottom mount. If not re-position the winch lifting eyebolt until the plow is properly positioned. Using a firm swift motion push the plow back until it engages into the mount.
2. Spring for the pivot plate on the push tube is worn or broken. The pivot plate needs to be angled upwards for the hooks to engage the bottom mount. Replace the spring.
3. Linkage rod is bent or disconnected. Inspect to determine the problem and repair or replace the linkage rod.
4. Pivot plate is bent or damaged. The ears of the pivot plate must be straight. Straighten if possible or replace the pivot plate.
5. Latch pawl is worn or bent. Replace pawl.
6. Release lever is in the open position. Close lever which will position the pivot plate at the proper angle. If the lever will not close, inspect the linkage rod, pivot plate, spring, and latch pawl for any damage.
7. Ice or snow buildup on either the pivot plate or bottom mount.
8. Bottom mount is bent or damaged. Inspect for any bending, shifting, warping, twisting or any other damage. The welded on rod must be straight. Replace the bottom mount if damage is found.
9. Bottom mount plate is installed upside down. The rod is welded to the plate off center and must be facing upwards. The bottom of the mount should be flush for the pivot plate to attach to.

BLADE IS STUCK OR IS DIFFICULT TO SWIVEL SIDE TO SIDE.

1. Pivot pin is still in the plow. Remove pin to swivel plow.
2. Ice, snow, dirt or other debris packed in the back channel of the blade. Thoroughly clean out any debris.
3. One or both struts broke. Carefully inspect both struts as the ends may tear open without coming loose from the plow. Replace as necessary.
4. Strut bolts bent or washers missing. Inspect for bent bolts or missing washers. See illustration for correct washer orientation.
5. Sliding lock plates inside back channel of blade are bent. Inspect for damage and replace where applicable.
6. Back channel of the blade is bent or the slots are pulled open. Repair or replace blade.

WEARBAR WILL NOT TRIP PROPERLY.

1. Wearbar, blade, or trip rod bent or damaged. Inspect for any bending, twisting, denting of the components and repair or replace. If there is no obvious sign of damage, remove both trip spring assemblies and move the wear bar back and forth by hand to help pinpoint the problem area.
2. Rocks or other debris caught between the blade and wear bar. Remove the springs or VERY CAREFULLY force the wearbar open with a prybar to let the debris fall out. NEVER pull it out using your hands!
3. Springs not installed correctly. Refer to the blade diagram to confirm all spring and spring rod parts are in the proper location. Verify the top 1/2" nuts on the spring rod are tightened almost all the way down.
4. Springs broke or worn out. Replace if necessary.

WEARBAR TRIPS TOO EASILY OR CHATTERS DURING OPERATION.

1. Depending upon surface type and snow conditions some chatter is normal with this system to quickly hop over packed snow/ice. Simply make one or two more passes to help clear the snow/ice. This chatter helps you keep plowing where the competitors plows trip forward forcing you to stop, back up, and try again.
2. Springs are too loose or worn out. Verify the top 1/2" nuts on the spring rod are tightened almost all the way down. Replace springs if worn.

PUSH TUBE IS NOT ARTICULATING PROPERLY

1. Front and rear push tube sections are binding. Inspect for any bent or damaged components. Repair or replace as necessary.
2. Push on caps on the guide shaft could be rubbing on the front push tube. Remove and reinstall being careful not to pound them on too far.
3. Washers missing or damaged between the front and rear push tubes on the pivot shaft. Replace washers.
4. Internal spring is damaged or not tight enough. Inspect spring and replace if damaged or stretched. Make sure spring is properly tensioned as shown on page 3.
5. Guide shaft or pivot shaft bent. Inspect and replace as necessary.
6. Push tube not positioned properly on the UTV. The front section of the push tube may be hitting the machine, adjust the push tube accordingly for clearance.

QUADBOSS UTV ARTICULATING PUSH TUBE WARRANTY INFORMATION

Warranty

The manufacturer's warranty to the original consumer purchaser is: This product is free from defects in materials and workmanship for a period of one (1) year from the date of purchase by the original consumer purchaser. We will repair or replace, at our discretion, parts found to be defective due to materials or workmanship. This warranty is subject to the following limitations and exclusions:

- 1) Commercial Use This product is not intended for commercial or rental use.
- 2) Limitations This warranty applies only to products which have been properly assembled, adjusted, designed by the original manufacturer to work in conjunction together, and operated in accordance with the instructions contained within this manual. This warranty does not apply to any product of Quadboss, that has been subject to alteration, misuse, abuse, improper assembly or installation, or shipping damage.
- 3) Exclusions Excluded from this warranty are normal wear items, normal adjustments, and normal maintenance. The blade and hardware were designed with safety in mind. To protect you and your ATV, certain parts were designed to fail when the equipment is over stressed. For this reason, the struts and related hardware are not warranted.

In the event you have a claim under this warranty, you must return the product to an authorized service dealer. All transportation charges, damage, or loss incurred during transportation of parts submitted for replacement or repair under this warranty shall be borne by the purchaser. Should you have any question concerning this warranty, please contact us at 877-847-1558. The model number, date of purchase, and name of authorized Quadboss dealer from whom you purchased the product will be needed before any warranty claim can be processed.

THIS WARRANTY DOES NOT APPLY TO ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES AND ANY IMPLIED WARRANTIES ARE LIMITED TO THE SAME TIME PERIODS STATED HEREIN FOR ALL EXPRESSED WARRANTIES.

Some states do not allow the limitation of consequential damages or limitations on how long an implied warranty may last, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you have other right, which vary from state-to-state. This is a limited warranty as defined by Magnuson-Moss ACT of 1975.

