BOARBUSTER™

Feral Hog Trap
Assembly Instructions

www.boarbuster.com



LIVESTOCK SYSTEMS

www.wwmanufacturing.com

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WW Manufacturing

Dear Customer,

Thank you for your purchase of the BoarBuster Feral Hog trap.

This trap has been under development through extensive research, for the past four years. We are confident you will discover that you have purchased one of the most advanced trapping systems for the eradication of feral hog that has ever been developed.

We wish you great success, and if there are any questions that the team at WW Manufacturing can answer for you please contact us at any time.

Marc Popejoy

General Manager
WW Livestock Systems

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All videos referenced in this manual may be found on the WW Livestock Systems YouTube channel. To find us go to YouTube.com and search for WW Livestock Systems, or follow this link -

WW Livestock Systems YouTube Channel

For BoarBuster information go to the community page

HERE

What is included



Three Legs – note the holes in one side, these will face the latch.





Three Inner Ring Latch Panels
note the Latch on the top right end



Three Inner Ring Panels w/o Latch



Five Outer Ring Panels



One Gate Panel

Tools You will need for initial set-up

1. ¾ wrench with ¾ socket & ratchet
   to bolt inner and outer rings together
2. 3/16 hex or allen key
   to install Gate latch on winch stand
3. Screw Driver or ¼ nut driver
4. two 9/16 wrenches
   to install winch on winch stand
5. two 3/8 wrenches
   to install winch cable on winch
6. 15/16 wrench or large crescent wrench
   to tighten retaining nuts on rollers

7. White Lithium Grease or equivalent lubricant for roller spindles and latch. We've had good success with WD-40 Protective White Lithium Grease. Penetrating Oils such as standard WD-40 should be avoided – they can break down the roller material.

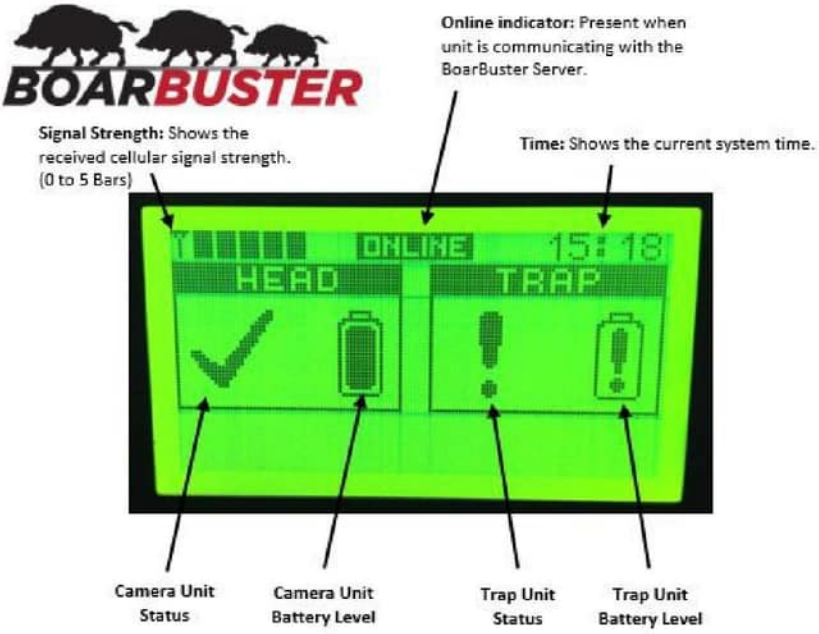


Tools 2-6 are only used at the time of the first set up. Once installed there is no need for them to be used when disassembling for transport.

After first set up all that is required to move the BoarBuster trap is the ¾ wrench and socket.

Before you set up your BoarBuster

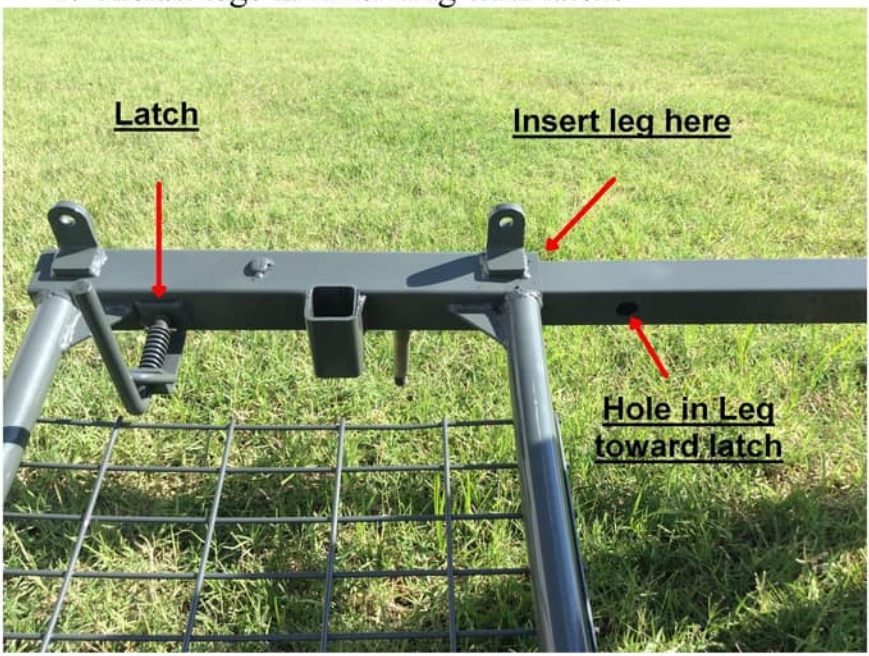
1. Install Antenna, Camera batteries and turn on the camera.
2. Verify your signal strength at the location you want to set up the trap. You will need at least least two bars – three is better.



3. If your only receiving one bar of signal strength – picking a different location for the trap will be best.

Leg Installation

1. Install legs in inner ring with latch.

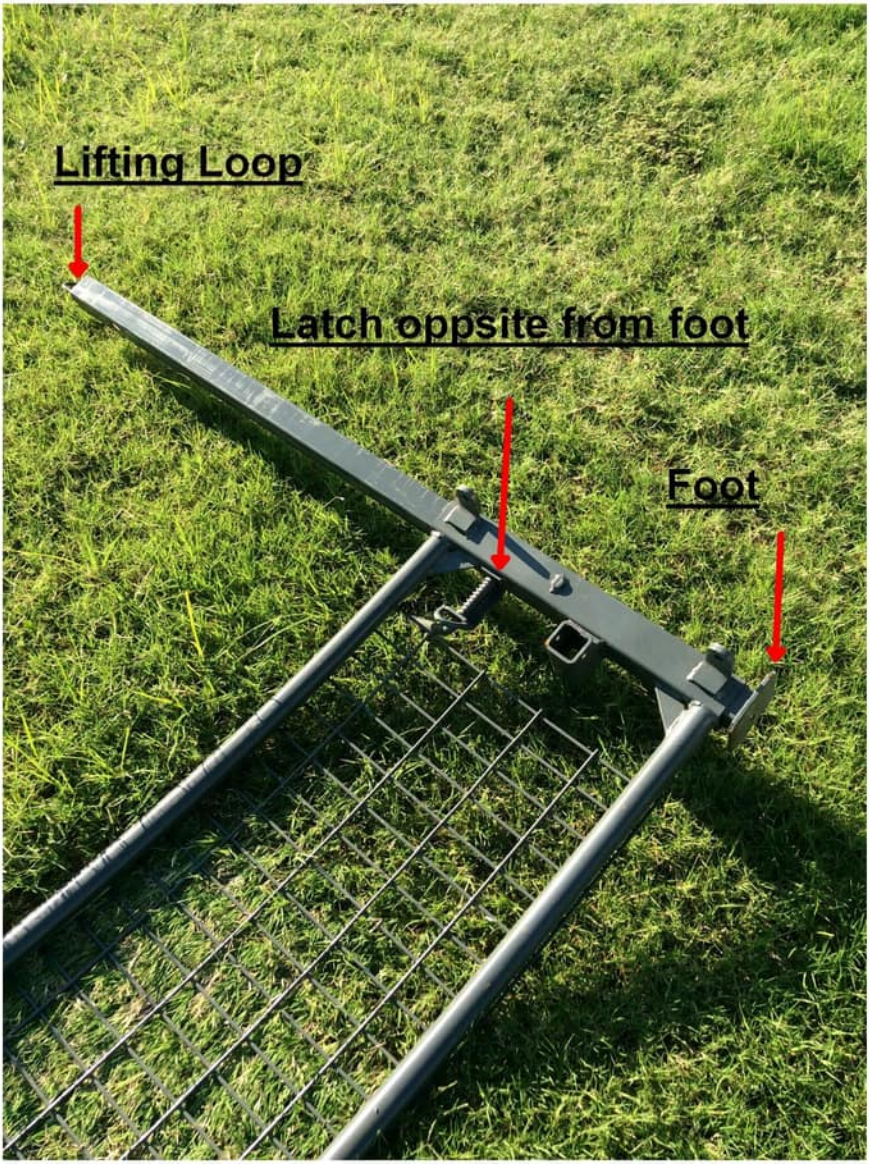


With latch in center detent, **slide the leg in the opposite end of the tube from the latch.** The metal 'loop' goes in first.

Caution – it is imperative the holes in the leg face the latch. Note red arrow.

Once the top hole is past the latch move the latch from the center detent position and continue to slide the leg until the bottom hole is secured by the latch.

Install all three legs in the inner ring with the latches.


Lifting Loop
Latch oppsite from foot
Foot

Inner Ring Assembly



Begin setting up the inner ring panels – alternating one latch panel and a leg, and one panel without a latch and leg. 2X4 wire mesh always to the outside. Foot on the leg at the bottom and spindle on the lower portion of the leg assembly.

It's ok to start the ½ bolts in the ears – but leave them loose as it will make aligning the other holes easier.



Alternate one latch panel and one without a latch until all six panels are used. At which point the inner ring will look like this picture.



The three legs will be evenly spaced around the ring.



At this point you can tighten the ¾ bolts – these are designed to be tightened firmly so the ears are pulled together.

While a slight gap is acceptable – this one needs to be tightened more.



Raising the inner ring

This can be performed two ways.

With the winch, see video at this link, by clicking picture, or the link below.

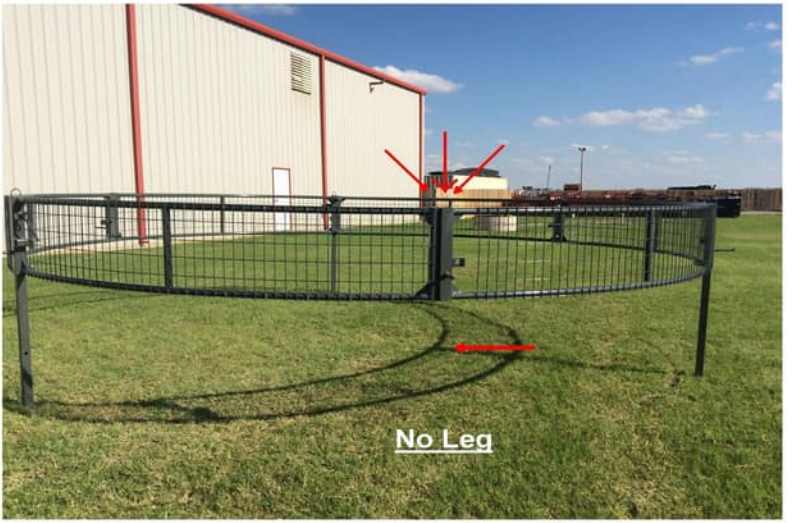


BoarBuster Raising the Inner Ring

If you use the winch to raise the Inner Ring you will need to assemble the Outer as shown in the next section, before you can raise the Inner Ring.

Or you may also with assistance, unlock one of the posts (latch in center position) and lift the ring by hand at that spot until the leg can be locked in place w/the latch. Then move to each post and raise until the Inner Ring has been raised at all 3 leg positions.

Installing the First Outer Ring Panel & Roller



Locate one of the spindles **between** the legs (see red arrow). This will allow the winch to be at a panel with a leg.

Install the 4” flat washer first then the 4” poly washer on that spindle.



At this point for best performance you will need to apply a premium quality lubricant to the spindle (such as a white lithium grease). Penetrating oils should be avoided.

You are ready for one of the five outer ring panels. Place the roller track over the spindle.



Carefully slide the roller track for the roller over the spindle.



Then, slide the blue roller, flange facing out, on to the spindle.

Follow the roller with a 3/4 washer then the 5/8 nyloc nut. Make sure the washer is on the shank – tighten the



Remaining Outer Panels and Rollers

The remaining 5 rollers may be all be installed now as follows. These 5 rollers do not need to be removed to disassemble and transport the trap. Once installed they can be left installed on the spindles.

Roller Installation

1. Place a ¾ flat washer over each remaining spindle.
2. Apply lubricant to spindle.



3. Slide the roller -with flange in- followed by a 5/8 nyloc nut. It is -not- necessary to put a flat washer on prior to the nut. Insure all rollers turn freely. Don't forget to lubricate the spindle.



You are now install the remaining five rollers and nyloc nuts, your ready to begin installing the other panels.

Install the gate panel next. It will install to the left (clockwise) of the first panel that is on the trap. It is on this spindle you will install the inner ring lifting eye.

Here is what you will see.





Make sure all other rollers are in place, then you may install the remaining outer panels.

This is what the Outer Ring panel will look like in place on the roller.



Notice the bolts are loose – you'll find getting all the bolts in place w/nut is easier if they are all left loose until all 14 are in place.

Here is the fully assembled BoarBuster trap ready to raise.



Attaching the Inner Ring Lifting/Lowering eye.

The Inner Ring Lifting eye goes on the gate panel roller track after the roller. Remove the nut and slide the small hole on the spindle.



Then re-install the nut.

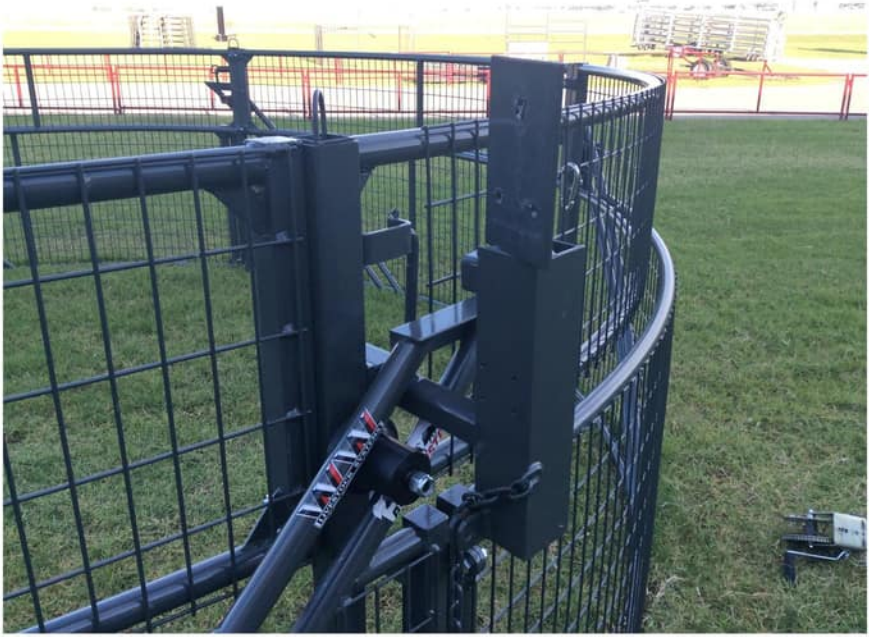


Assembling the Winch Stand

Components you will need.



The easiest way to assemble the winch stand is on the trap. Slide in a receiver marked 'outer ring'



Then attach the winch with the three 3/8 bolts, flat washer on the head side, lock washer on the nut side.



You are now ready to install the cable. Run cable under the hub then thru the hole in side plate. Use the clamp and washers to attach to the outside of the hub.





Latch Arm Installation

Install latch arm on winch stand using clevis pin and cotter key.





Installation of rotary latch for the BoarBuster

Tools required: two 7/16 wrenches, one small (#3) straight screw driver.

Place both ¼ -20 bolts through the two hole in the mounting plate – the bolt head -must- be on the outside of the bracket or toward the trap.



Slide latch over bolts with wiring harness to the top, and release to the front of the mounting plate.



Install cover plate with nyloc nuts. Note manual release for latch on the top rear of latch, see yellow arrow. Do not tighten nuts yet. Release latch, and swing latch arm in to the the latch



With latch arm in the latch you can now tight the nuts – as your tightening insure that the latch arm releases and closes freely. Do not overtighten or you could damage the latch. The nyloc nut will prevent loosening. Connect cable w/sealed connector to latch.



You may need to remove the existing cable from the trap unit. You will need a small straight screw driver. Then wire cable as follows,

Red & Orange – Out+
Brown -Out-
Blue – NC
Black – Com
Gray – not used



With latch closed and batteries installed you can now press test button in trap unit to open the latch.

-IMPORTANT-

Once the latch has been released with the app, or the test button – you will have to again press the test button to reset the latch to lock the latch arm in place. If you do not reset the latch by pressing the test button the latch will not lock closed.

Attaching the trap unit.

Use the four 10-32 screws to attach the trap unit to the

winch stand.

The trap unit will connect to the Gate Latch with the supplied cable from both units. These are pre-wired, with a weather-tite connection.



Completed Winch Stand



Safety chain and hook.

- Any time the trap is raised for personal entry it is

imperative that the safety chain be attached to the lift point on the outer ring.- We also recommend leaving the lift cable attached & the latch arm engaged.





Raising the Outer Ring

Click on picture or the link below for a short video on raising the BoarBuster Outer Ring.



Raising the BoarBuster Outer Ring

1. Move winch to Outer Ring receiver.
2. Connect cable hook to outer ring lift eye (both are red)
3. Make sure latch arm is in upright position and captured by the Gate Latch
4. Raise Outer Ring w/winch until striker is resting in the latch arm.



-Warning-

Continuing to raise the trap beyond the point in the picture -will- cause damage to the trap.

If you are raising the trap for deployment you are ready to deploy and the cable may be removed.

If anyone is going to enter the trap for baiting or any other purpose the safety chain must be attached and also leave the cable attached until any personnel are clear of the trap.

Lowering the Inner Ring for disassembly

You can see the video for lowering the Inner Ring here, click on picture or the link.



BoarBuster Lowering the Inner Ring

1. Lower Outer Ring using the app, the trip button in the trap unit or the manual release on the Gate Latch.
2. Insure winch stand is in “Inner Ring Receiver”



3. Connect cable to lifting eye on roller.



4. Raise the Inner Ring a bit to unload legs.
5. Release latch by moving to center detent, grasp loop on top of leg raise leg. Move latch to lock position, and raise leg until latch locks in lower hole on leg. Raise all three legs.
6. Using winch lower inner ring until lowered on to the ground.

Disassembly of the BoarBuster

1. Make sure the outer ring in on the ground
2. Remove the bolts from the outer ring panels.
3. Remove the single, short, reversed roller. All other rollers may remain on their spindles.
4. With Inner Ring on the ground remove the bolts. The Legs may stay in place in the panels.
5. With adequate help and appropriate trailer the Inner Ring and Outer Rings only need to be unbolted into only three sections each.

Common Mistakes

Leg Latch

It is imperative the the Leg Latches be seated fully – DO NOT rely the the spring to seat the latch. You -MUST- visual verify the the latch is fully fully seated.



The picture above is correct, cotter pin is against the latch base.



This latch is not seated in the leg, the cotter pin is not against the base – it must be manually pushed in by physically pushing on the latch. It not safe to raise the trap in this condition.

Winch Stand Location

For best performance the winch stand should be located over a leg.



<u>This is best, winch is mounted at a leg.</u>



Not a best practice, while it will 'work' the weight of the trap is now supported -between- the legs, when raising and in a armed position.

Winch Cable Clamp



Correct – carriage bolt head to inside of winch.



Incorrect – bolt thread to inside of winch the cable will hang up on the bolts as being raised. Cable hangs on bolt and shortens cable life & makes it difficult to raise trap.

Appendix

Install the original GL1 Gate Latch

Four allen/hex screws are include with the latch. You'll use two in the upper holes on the Gate Latch base, tighten securely.



While installing the latch note the location of this pin – it is a manual release for the latch.



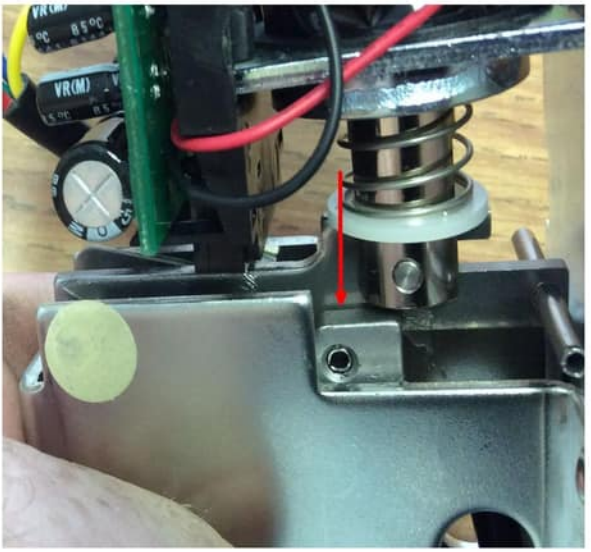
Now you will need to install the cover – the latch mechanism must be in a closed state to do so. You'll need two more allen/hex screws. The cover will catch on the top rear lip of the latch.

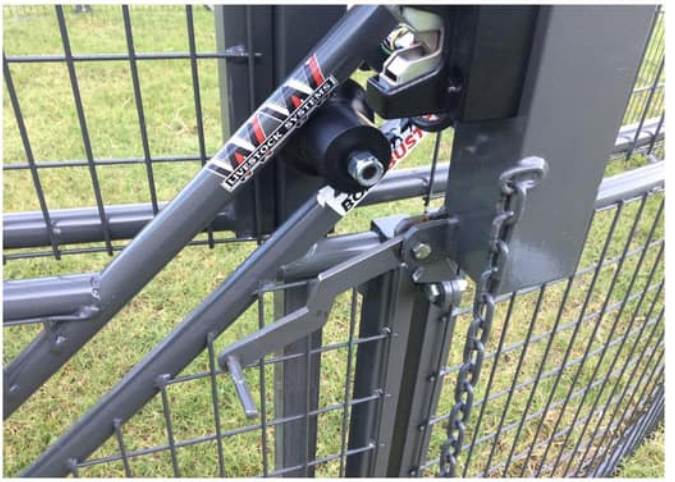


It is -imperative- that all four screws are used and tighten correctly for safe and correct operation of the trap and the latch.

Lubricating the latch.

The latch has been lubricated when you receive it – however should it not release properly you can lubricate as follows – the latch manufacturer recommends White Lithium grease at the location of the red arrow.





Time for the latch arm – use the 3/8 clevis pin and 1/8 cotter pin. At this point you can release the gate latch using the pin pointed out earlier. Once the gate latch is open you can rotate the latch arm clockwise to capture the 3/8 rod in the latch.



You want to make sure the latch arm rotates smoothly by opening and closing the latch a few times.



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