

# ATV WAGON

BY BOSSKI

High Performance ATV Trailers



## 1600 UTILITY OWNERS MANUAL & ASSEMBLY INSTRUCTIONS

### CAUTION:

Read Rules for Safe  
Operation and Assembly  
Instructions Carefully



**NEED HELP? Please visit us at [www.ATVWAGON.com](http://www.ATVWAGON.com)**

# Safety Rules

Remember, any piece of equipment like an ATV trailer can cause injury if operated improperly or if the user does not understand how to operate the equipment. Exercise caution at all times when using your tow vehicle and tow trailer.



**LOOK FOR THIS SYMBOL TO POINT OUT IMPORTANT SAFETY PRECAUTIONS. IT MEANS -- ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED.**

## **Please exercise caution at ALL times when using the trailer on your tow vehicle:**

- Read this owners manual before attempting to assemble or operate trailer.
- Read the tow vehicle's owners manual and know how to operate your tow vehicle before using the trailer.
- Do not transport people on or inside the trailer. The transport of people puts their lives at risk and may be illegal as the trailer has not been designed to carry passengers.
- Do not allow adults to operate tow vehicles or trailers without proper instructions and experience.
- Never allow children to operate the tow vehicle or the trailer.
- Recommended tow vehicle engine size is 350 cc or larger with four-wheel drive in order to allow safe operation when towing the trailer.
- Use caution when towing the trailer over rough terrain and hillsides to prevent rolling over and loss of control. Be careful towing the trailer in icy, wet, or snowy conditions which could impair the braking ability of the trailer and the tow vehicle.
- Tow Vehicle braking and stability may be affected when towing this trailer.
- Using the trailer with a heavy load may inhibit the towing capacity of the tow vehicle. Do not exceed the maximum towing capacity of your vehicle. Check the vehicle's owners manual on tow capacity limitations.
- Before operating vehicle on any sloped surface or hill, refer to the safety rules in the vehicles owners manual on proper operation on slopes. Use extreme caution on steep slopes.
- Do not tow trailer on highways or on public thoroughfares. The trailer is designed for off road use only.



**CAUTION: VEHICLE BRAKING AND STABILITY MAY BE AFFECTED WITH THE ADDITION OF THIS TRAILER. BE AWARE OF CHANGING CONDITIONS ON SLOPES AT ALL TIMES.**



**CAUTION: AN IMPROPERLY COUPLED TRAILER CAN RESULT IN DEATH OR SERIOUS INJURY. TIGHTEN THE COUPLER ADJUSTMENT REGULARLY.**

## **WARNING**

Driving too fast for conditions can result in loss of control and cause death or serious injury.

- Decrease your speed as road, weather and lighting conditions deteriorate.

## **WARNING**

Improper tire pressure can result in a blowout and loss of control, which can lead to death or serious injury.

- Be sure tires are inflated to pressure indicated on sidewall before towing trailer.

## **WARNING**

An improperly coupled trailer can result in death or serious injury.

Do not tow the trailer until:

- The coupler is secured and locked to hitch;
- **The coupler is adjusted properly to fit the towing vehicle ball**
- Tires and wheels are checked;
- The trailer brakes (if applicable) are checked;
- The load is secured to the trailer; and
- The trailer lights are connected and checked

## **WARNING**

Lug nuts are prone to loosen after initial installation, and if improperly tightened can lead to death or serious injury.

- Check lug nuts for tightness on a new trailer or when wheel(s) have been remounted after the first 10, 25 and 50 miles of use. Tighten lug nuts before each use.

## **WARNING**

An overloaded trailer or improper distribution of load weight or shifting cargo can result in loss of control of the trailer, leading to death or serious injury.

- Do not exceed the trailer Gross Vehicle Weight Rating (GVWR).
- Tie down all loads with proper sized fasteners, ropes, straps, etc.

Be sure to:

- Distribute the load front-to-rear and provide proper tongue weight;
- Distribute the load evenly, right and left, to avoid tire overload; and
- Keep the center of gravity low.

## **WARNING**

Improper electrical connection between the tow vehicle and the trailer will result in inoperable lights and electric brakes, and can lead to collision.

Before each use:

- Check tail/brake light functions properly
- Check electric brakes (if applicable) function properly by operating the brake controller on the tow vehicle.

### **LIMITED WARRANTY TO CONSUMERS**

Bosski warrants the goods to be new and free from material defect for one (1) year from the date of Bosski's delivery of the goods to Buyer. This warranty will be satisfied by Bosski's repairing the goods or furnishing replacement goods or parts, at its option. To take advantage of this warranty, Buyer must immediately notify Bosski of the claimed defect. Bosski shall have no obligation under this warranty for (a) goods which have been repaired or altered by any party other than Bosski, and or (b) defects which result from misuse, accident, or improper connection of the goods to a tow vehicle, and or (c) commercial use of the product. **THIS IS BUYER'S EXCLUSIVE REMEDY UNDER WARRANTY. BOSSKI DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND AGAINST INFRINGEMENT. THIS WARRANTY IS NOT TRANSFERABLE.**

## Assembly instructions for 1600UT knock down



1. Unpack parts from inside trailer bed, saving the cardboard lid to be used in **Step 20**.



2. With the help of 2 people, turn trailer bed upside down for assembly. Use cardboard from packaging to protect bed rails- be careful not to damage tailgate pins or D-rings.

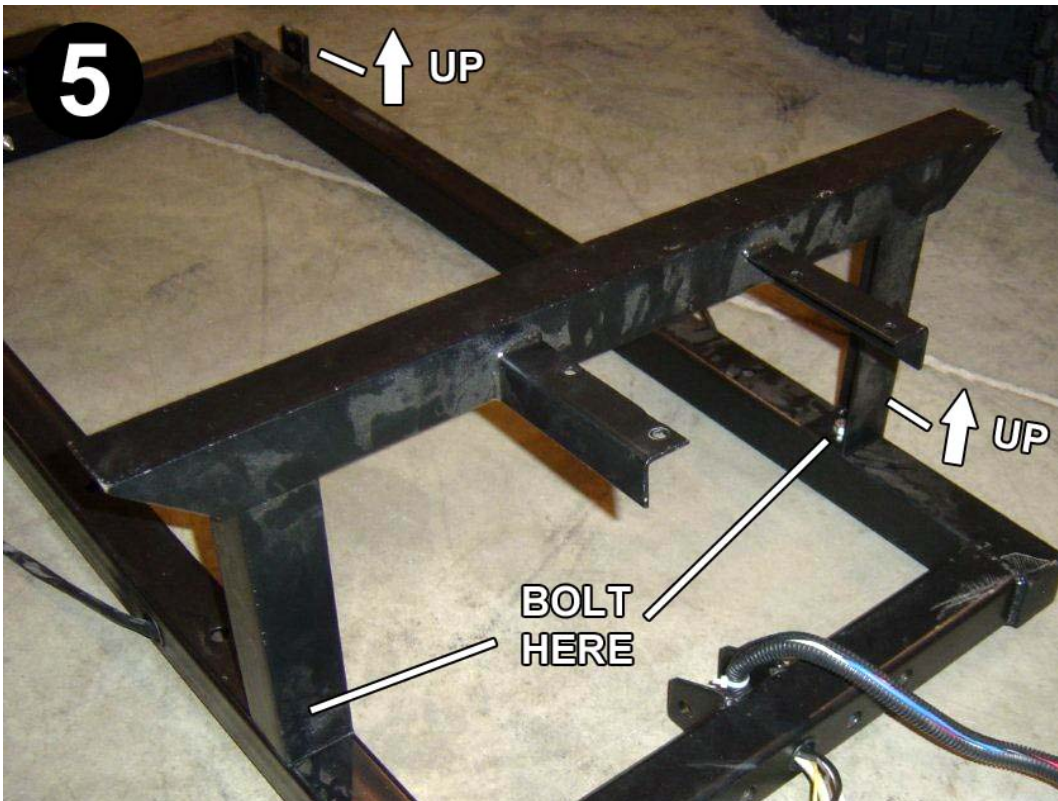


3. Remove the 4 wooden blocks used for shipping and discard/recycle as shown in the photo left.



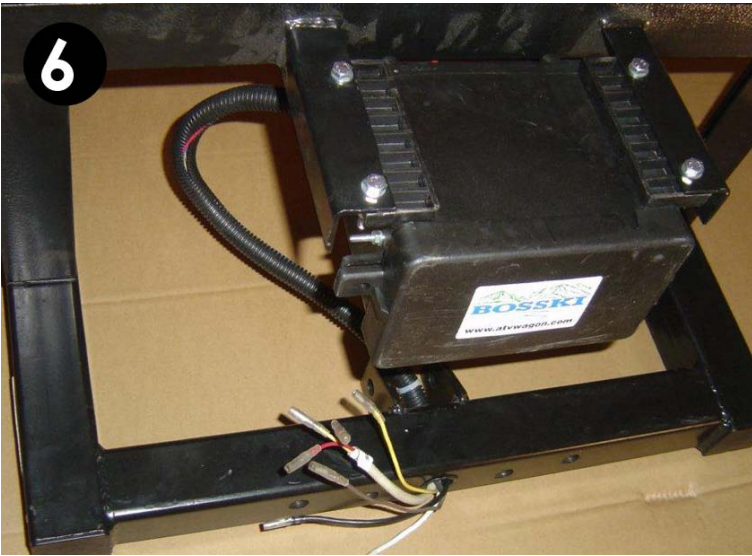
4. Mount subframe struts to bed with triangle section closest to tailgate, photo left. Each strut is either *Right* or *Left*. Place each strut on the inside portion, flush with the bed, use bolts from package labeled A.

**Leave bolts loose-** do NOT tighten until **Step 9**.

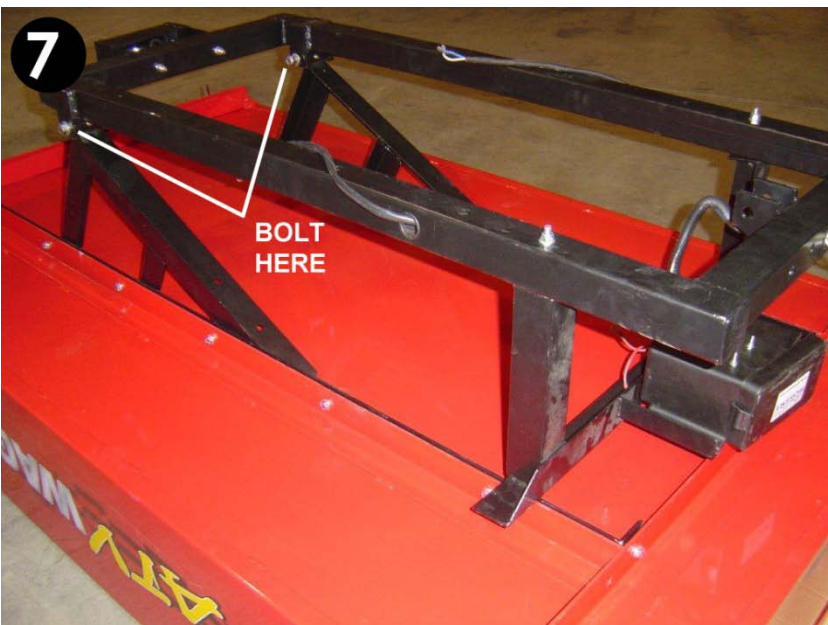


5. Install bed rest to rectangular frame as shown in the photo above, use bolts from package labeled B. Notice the direction of the pivot point near the taillight points up in the same direction as the mounted bed rest.

**BEFORE OPERATING YOUR ATV WAGON**, read, understand, and follow the safety rules on page 2 and the warnings listed on page 3 as well as the cautions listed throughout the manual.



6. Install black box on bed rest, use bolts from package labeled C.



7. Take assembly portion from **STEP 5 & 6** and install to struts as shown in photo above, use pivot bolts from package labeled D.

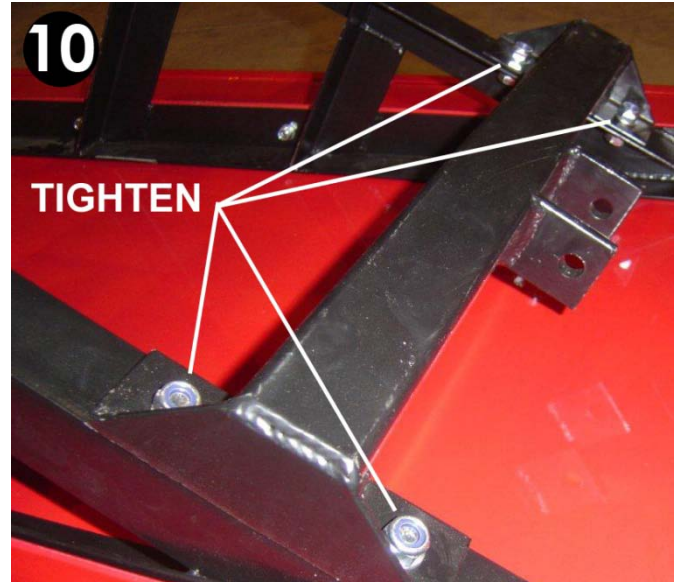


8. Install lift top mount cross bar as shown with direction of Brackets pointing to the front, use bolts from package labeled E. **Leave bolts loose.**





9. Tighten bolts that join bed and sub frame struts from Step 4.



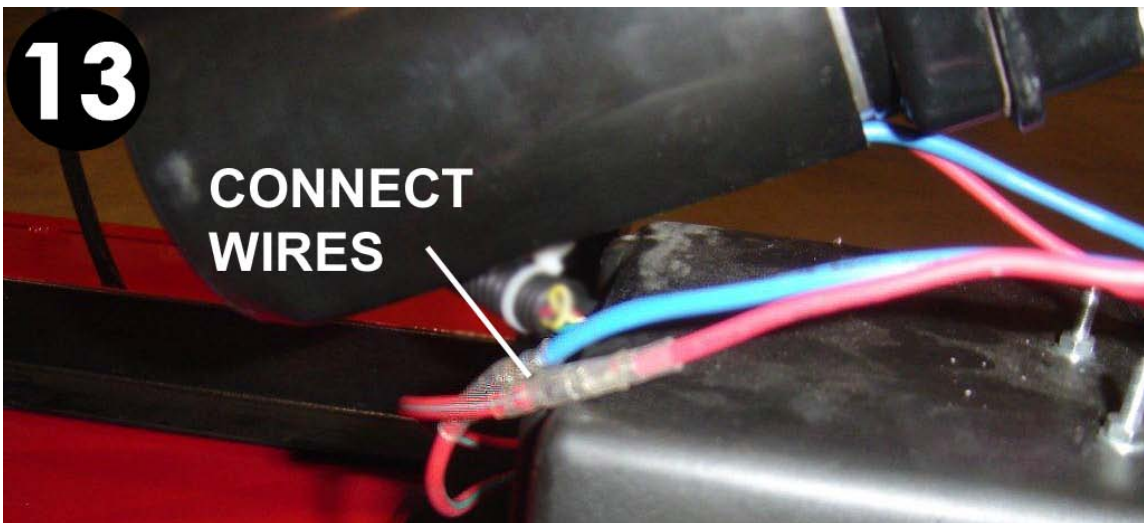
10. Tighten bolts on lift top mount cross bar from Step 8.



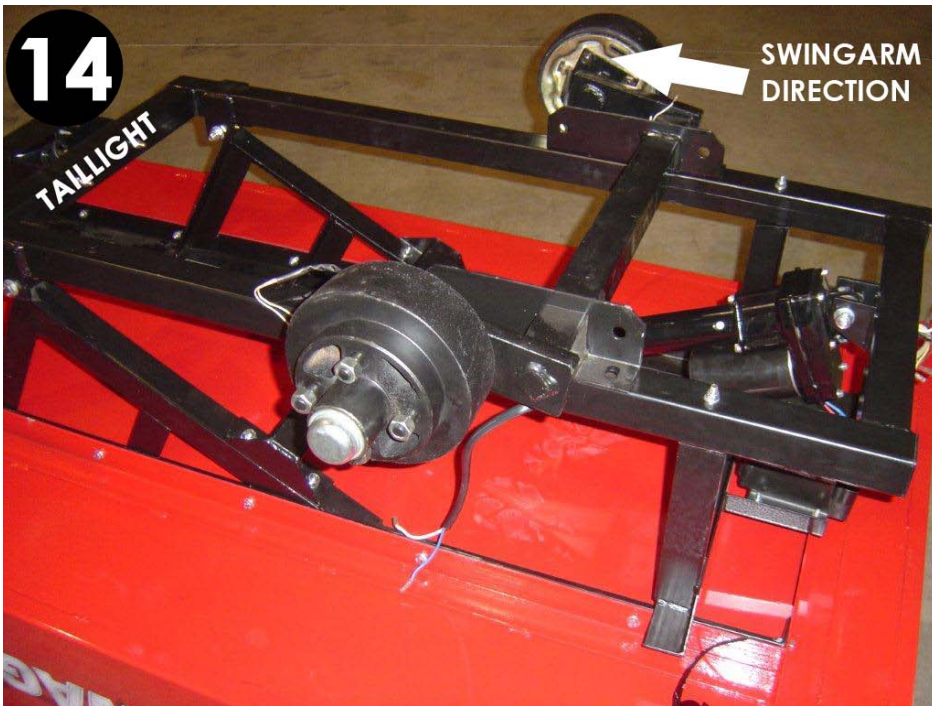
11. Install lift, with motor closest to frame. Be sure to use the shorter spacers from package labeled F.



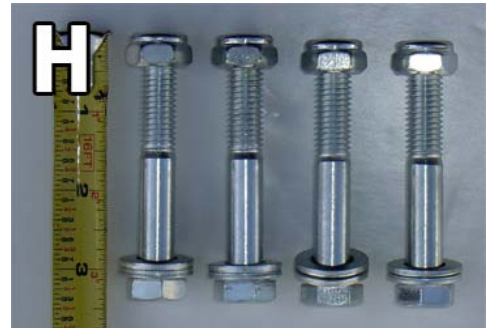
12. Install piston end of lift to cross bar using the wider spacers from package labeled G.



13. Connect the 2 wires from lift motor to black plastic box wires as shown in photo left.

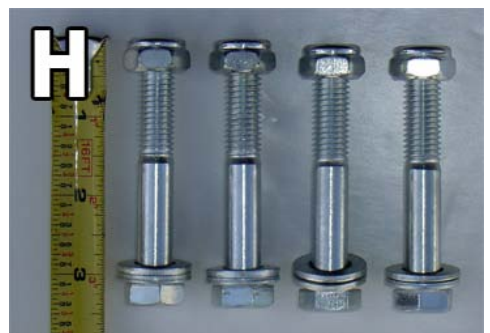


14. Mount brake axle in front mounting holes with the swing arm pointing to the rear or taillight, use bolts from package labeled H. Connect the brake wires to either of the frame wires. Push excess wire into frame.



15. Mount idler axle in rear with the swing arm pointing to the rear or taillight, use bolts from package labeled H.

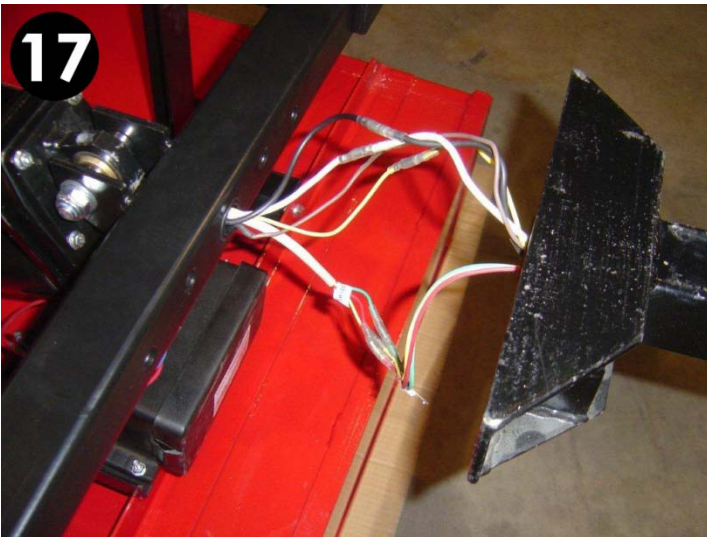
**Note:** There are 3 packages of bolts labeled H which are used in steps 14, 15, & 18.



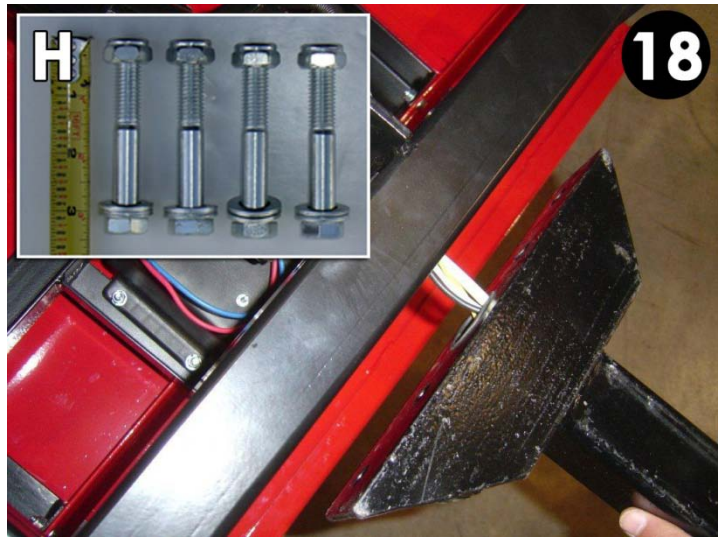
16. Mount each wheel/tire assembly to the hubs with the 4 tapered lug nuts. Install with the valve stems facing away from the frame. Tighten the nuts gradually, alternating between nuts opposite each other to assure even seating of the wheel onto the axle.

Inflate tire to recommended pressure on sidewall of tire (3-5 P.S.I.)





17. On the tongue assembly, connect the male electrical connectors to the female electrical connectors, ensuring that the colors of the wires match. **BE CAREFUL NOT TO DAMAGE WIRES.**



18. Install the tongue assembly to the frame. Tighten to 50-71 ft-lbs (68-96nm). Be sure the wires do not become pinched between the frame and the tongue. Use bolts from package labeled H.



## TECH GUY TIP

TO BULLET PROOF YOUR TRAILER WIRING, WRAP THE CONNECTIONS WITH BLACK ELECTRICAL TAPE AND OR ZIP-TIE A LOOP TO PREVENT THE WIRES FROM UNPLUGGING.



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19. Place tongue wires in hook on coupler.



20. Use cardboard and position as shown above to protect sides and wheels.

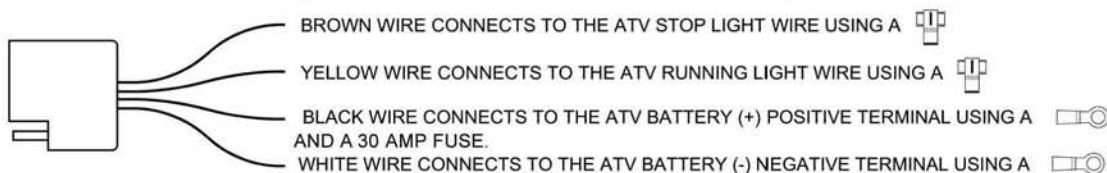


21. With the help of 2 people, carefully turn trailer over onto tires. Be careful not to damage tailgate pins or D-rings.

## ATV WIRING INSTALLATION

The ATV wiring harness has a 4-pole connector at one end and bare end wires at the other end. Splice these wires, using the supplied connectors, into the appropriate ATV/tow vehicle wires as shown below. *NOTE: Be sure to install a 30 amp fuse on the black wire.*

### WIRING HARNESS-TO-ATV



Please refer to the owner's manual or wiring schematic for the specifics of your tow vehicle. Next route the connector-end of the wire to the rear of the ATV. Be sure to leave enough wire to accommodate the turning requirements of your ATV Wagon. Seal all splices to insure that water does not corrode or short the electrical wiring. When you are ready to use the trailer, plug the connector end into the 4 pole connector at the trailer coupler.



Upgrade to a wireless dump today- perfect when you want to stay at the trailer for precision dump control or when a stubborn load sticks to the trailer bed. Speed and ease of use makes this a must have. Or if you have more than one ATV that will use the trailer, purchase additional handlebar switch kits for each of your ATVs.

- Wireless Remote Control for 1600 UT.....part # 1865
- ATV Side Wiring Kit for 1600 UT.....part # 1836

Contact your local dealer or Bosski today.

Mount the Electric Lift Controller on the left side of the ATV handlebar—see the photo at right for visual assistance. Position the (2) C-brackets on the handlebar and bolt together—mount the extension piece on the top C-bracket bolt before tightening. Next using the (2) black nuts, mount the L-bracket to the bottom of the switch. Now bolt the switch to the extension piece using the short bolt and nut.

Make sure the switch is positioned so that the wires are below the handlebar, and the controls are accessible with the operators thumb. Once a comfortable position is found, tighten all the nuts and bolts.

Route the wire from the switch down the handlebar and connect to the 3-pole connector. Route these wires along a similar path of the 4-pole connector so it finally reaches the back of the ATV. Conceal and secure any excess wire to the ATV. Be sure to leave enough extra wire to accommodate the turning requirements when pulling your trailer. When you are ready to use the ATV Wagon, plug the 3-pole male connector into the 3-pole female connector at the trailer coupler.



USE A 2" BALL ONLY



Tighten in direction shown here



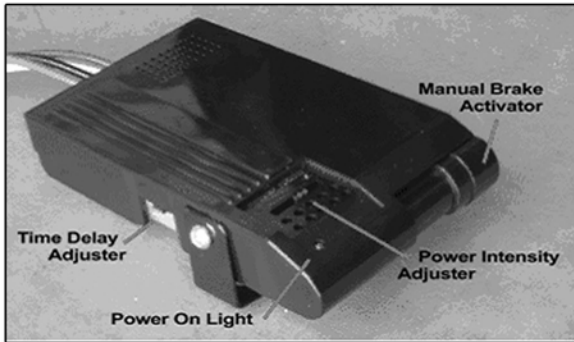
**CAUTION: AN IMPROPERLY COUPLED TRAILER CAN RESULT IN DEATH OR SERIOUS INJURY. TIGHTEN THE COUPLER ADJUSTMENT REGULARLY.**

## BRAKE CONTROLLER

ATV Wagon offers power brakes as a standard feature on models 1600 AL and 1600 UT.

**NOTE:** The electronic braking system is not compatible with ALL tow vehicles. Please contact us for more information: 208-455-8433 or log on to [www.atvwagon.com](http://www.atvwagon.com) and visit the Tech Guy section.

Mounted within the black box, (please see diagram on page 6) of the ATV Wagon is a Brake Controller, which allows you to adjust the time delay and power intensity of the trailer brakes.



First, make sure power is being supplied to the brake controller by hooking up the 4-pole wire connection to the ATV (see page 8) and turning on the ATV ignition. NOTE: Be sure you have a strong, well charged battery for full braking power. Squeeze the Manual Brake Activator and note that red lights appear by the Power Intensity Adjuster. The more lights that activate, the more stopping power you apply to the ATV Wagon trailer brakes.

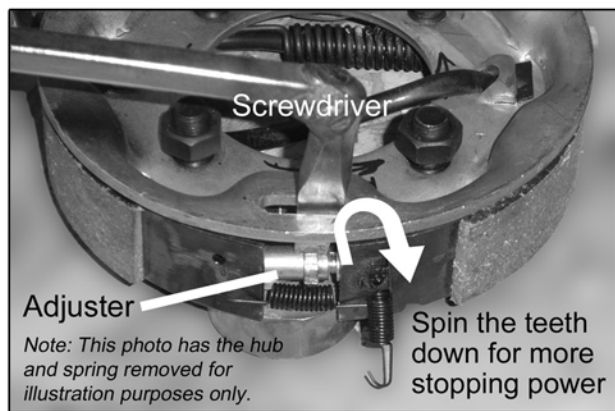
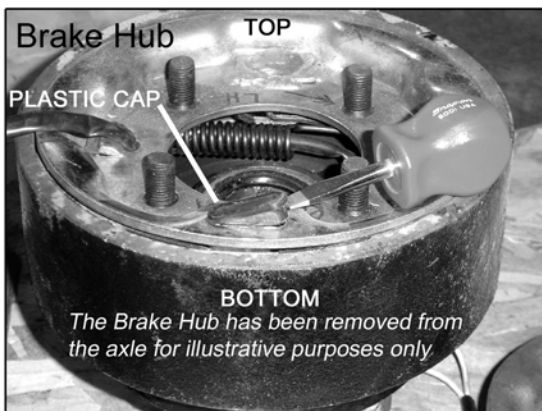
**More Stopping Power:** Move the Power Intensity Adjuster to the Left, towards the (+) positive symbol.

**Less Stopping Power:** Move the adjuster to the Right towards the (-) negative symbol.

The Time Delay Adjuster allows you to place a 1-3 second delay when applying the trailer brakes. Check that the switch is pushed to the back, in the opposite direction of the Power On Light, for instant stopping power.

## BRAKE SHOE- MANUAL ADJUSTMENT

After using your trailer for some time, you may need to manually adjust the brake shoes located within the brake drum. At the bottom, inside portion of each brake hub you will note an elongated plastic cap. Remove this cap as indicated in the left photo below:



Inside the hole of the hub, you will note a silver adjuster. Insert a screwdriver into the hole, and spin the teeth down to expand or add more stopping power to each hub, as seen in the right photo above. Spin the teeth up to contract or decrease the brake pads from contacting the brake drum. The direction 'down' would be to spin the circular adjuster in a direction towards you. Imagine the adjuster like a coin rolling on a table towards you, that is the direction of 'down'.

# WIRING SCHEMATIC FOR 1600 UTILITY

