OWNERS MANUAL

&

ASSEMBLY INSTRUCTIONS

NEED HELP? Visit us at ABIsupport.com or call 877.788.7253

Caution:
Read Safety Rules, Warnings & Assembly Instructions Carefully!
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 owner’s manual before attempting to assemble or operate trailer.
◆ Read the tow vehicle’s owner’s 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.
◆ Don’t allow adults to operate tow vehicle or trailer 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 owner’s manual on tow capacity limitations.
◆ Before operating vehicle on any sloped surface or hill, refer to the safety rules in the vehicles owner’s 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 terrain, weather and lighting conditions deteriorate.

WARNING

Improper tire pressure can result in 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 the hitch, use 2” ball hitch only;
- The coupler is adjusted properly to fit the towing vehicle 2” 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 (1,600 lbs. GVWR)
- Tie down all loads with proper sized fasteners, ropes, straps, etc. (Not included)
- Never disconnect trailer from tow vehicle while on an incline.
- Distribute the load front-to-rear and provide proper tongue weight;
- Distribute load evenly, right to left, and 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 electric lift and electric brakes, and can lead to collision. Before each use:
- Check tail/brake light for proper functioning; and
- Check electric brakes (if applicable) for proper functioning by operating the brake controller on the tow vehicle.

**WARNING**

Stay clear of dump trailer when in use. Improper use could cause pinch points and material being dumped out of the trailer to cause death or serious injury.
- Never operate the dump system, up or down, without first visually and audibly ensuring people, animals and other objects are clear of the trailer and the contents it is dumping.
- Tailgate may be under pressure or helping to secure the contents of trailer bed, use caution when opening and keep feet clear.
- Always disconnect the electrical connection between the trailer and tow vehicle, when not in use, to prevent inadvertent operation of the dump bed.
**Routine Maintenance**

Trailer Lubrication:

- **Wheel Hubs**: Grease the hubs once a year, or before long periods of storage. There are grease fittings located on the back of each hub for this purpose. If your hub does not have a grease fitting, you will have to hand pack your bearings. When greasing or packing your bearings you will want to use Hi-Temp Wheel Bearing grease only. If using a grease gun, we recommend a couple pumps for this.
- **Trailer Bed Pivot Point**: Grease the pivot points for the trailer’s bed once a month, or before long periods of storage. To reach the grease fitting you will raise the bed, and use the grease fittings located at the pivot point. We recommend multipurpose grease for the pivot points.
- **Ball Hitch**: Use spray lithium grease as needed.

Trailer Cleaning:

- Use mild dish soap or automotive car wash and water for routine cleaning.
- If using to haul manure clean after every use. Do NOT store manure in trailer bed.

**Operational Tips**

- Read and abide by the safety rules and warnings on pages 2 and 3.
- The tailgate has 4 positions. 1) All 4 pins connected = Closed Tailgate. 2) All 4 pins removed = Open Bed. 3) Top 2 pins connected and bottom two released = Dump Position. 4) Top 2 pins released and bottom two connected = Fold Down Tailgate (Like on a pickup truck.)
- Before attempting to dump material, either remove the tail gate or release the two bottom pins to allow material to flow.
- Use wheel chocks, when trailer is not connected to a tow vehicle, to prevent it from rolling on inclines. Brakes are not active when electrical power is disconnected.
- Keep tow vehicle motor running while operating the electric lift to prevent battery drainage.
- Do not place, optional, wireless key fob in pants pockets or other constrictive areas to avoid inadvertent operation of the electric lift.

**Tools Needed for Assembly**

- Two strong individuals
- 13mm socket or box wrench
- 18mm socket or box wrench
- 10mm socket or box wrench
- 21mm deep well socket for tires
- Standard set of pliers
- 9” adjustable wrench
- Air Pump
- Electrical tape
- Lithium grease

**Assembly Time Is About 2 Hours**

**Limited Warranty For Consumers**: ABI warrants the goods to be new and free from material defect for one (1) year from the date of ABI’s delivery of goods to Buyer. This warranty will be satisfied by ABI’s repairing the goods or furnishing replacement goods or parts, at its option. To take advantage of this warranty, Buyer must immediately notify ABI of the claimed defect. ABI shall have no obligation under this warranty for (a) goods which have been repaired or altered by any party other than ABI, 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 THIS WARRANTY. ABI 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.
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) Bolt 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 Points” near the taillight are points up in the same direction as the mounted “Bed Rest.”

BEFORE OPERATING YOUR WORKMAN TRAILER, read, understand and follow the safety rules on page 2 and the warnings listed on page 2 & 3 as well as the cautions listed throughout this manual.
6) Install black box on “Bed Rest,” use bolts from package labeled C.

7) With two people, take assembly portion from STEP 5 and turn it upside-down. Hold it over the trailer bed and align the “V shaped” struts with the “Strut Mounts.” Place on trailer bed with the taillight pointing toward the tailgate or back of the bed. Use pivot bolts from package labeled D to secure the bed struts to the frame. Tighten these bolts only.

8) Install lift top mount “Cross Bar” as shown with the direction of the “Bracket” 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 “Cross Bar” from Step 8.

11) Mount the electric lift to the “Front Frame Bracket.” Bolt the end with the cylindrical motor to the “Bracket” on the “Front Frame” with the motor down toward the trailer bed. When bolting, center the lift between spacers on the inside of the bracket and washers on the outside. Use hardware package labeled F.

12) Before installing the “Piston End” (small end) of the electric lift, manually turn the shaft two complete revolutions. Next, install the “Piston End” of the lift to the “Cross Bar.” When bolting, center the “Lift” between “Spacers” on the inside of the “Bracket” and washers on the outside. Use package labeled G.

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

To secure the trailer wiring, wrap the connections with black electrical tape to prevent the wires from becoming unplugged.
14) Bolt the “Brake Axle” in the front mounting holes with the swing arm pointing to the rear or taillight of the trailer. Use the 4 bolts from package labeled H. Evenly & securely tighten.

Connect the brake wires to either of the frame wires. Secure connections with black electrical tape. **Push excess wire into frame.**

15) Bolt “Idler Axle” in the rear mounting holes with the swing arm pointing to the rear or taillight of the trailer. Use the 4 bolts from package labeled H. Evenly & securely tighten.

**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. The taper of the lug nuts must face toward the wheel. 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.
17) On the tongue assembly, connect the male electrical connectors to the female electrical connectors, ensuring that the colors of the wires match. Use electrical tape as shown below. Push excess wiring back into the frame. **BE CAREFUL NOT TO DAMAGE WIRES.**

18) Bolt the tongue assembly to the frame. Tighten to 50-71 ft-lbs (68-96nm). Ensure the open side of the ball coupler is facing up. **Be sure the wires DO NOT BECOME PINCHED between the frame and the tongue.** Use bolts from package labeled H.

19) Place tongue wires in hook on coupler.

To secure the trailer wiring, wrap the connections with black electrical tape and use ZIP-TIES in a loop to prevent the wires from unplugging.

20) Place cardboard as shown above This is to provide protection for the trailer powder coating during the next step.

21) With the help of 2 people, turn the trailer on to it's side. Then gently push it onto it's tires. **Be careful not to damage tailgate pins or D-rings on the side of the trailer.**
**Tow Vehicle Wiring Installation**

The tow vehicle 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 tow vehicle wires as shown below. **NOTE:** Be sure to install a 30 amp fuse on the black wire.

**Connecting Wire Harness To Tow Vehicle**

- **Brown wire** connects to the vehicle stop wire using “A”
- **Yellow wire** connects to vehicle running light wire using “A”
- **Black wire** connects to the vehicle battery (+) positive terminal using “A” and a 30 amp fuse
- **White wire** connects to the vehicle battery (-) negative terminal using “A”

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 vehicle. Be sure to leave enough wire to accommodate the turning requirements of your Workman trailer. 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.

If you haven’t already, upgrade to a wireless dump today! The is an easy upgrade that works with any Workman XL trailer. Now you can dump from anywhere within about 100 ft range of the trailer. Ideal for precision dump control as the operator can stand near the back of the trailer to visually see the material being dumped. Also great when a stubborn load sticks to the trailer bed. Our wireless system has 2 key fob remote controllers for use with multiple tow vehicles or multiple operators at the job site.

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 operator’s 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.

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**CAUTION:** AN IMPROPERLY COUPLED TRAILER CAN RESULT IN DEATH OR SERIOUS INJURY. TIGHTEN THE COUPLING ADJUSTMENT REGULARLY.
**Brake Controller Adjustments**

NOTE: The electronic braking system is not compatible with ALL tow vehicles. Please contact us for more information: 877-788-7253 or log on to ABIsupport.com.

ABI offers power brakes as a standard feature on the dual axle Workman XL only. Mounted within the black box, (please see diagram on page 7) of the Workman Trailer 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 Workman 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. The factory default is set to instant stopping or no delay.

**Brake Shoe Manual Adjustments**

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 brake spoon or 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 to be like a coin rolling on a table towards you, that is the direction of ‘down’.
1) Open the Black Box located on the trailer just above the electric lift.

2) Locate the preinstalled 4 pole connector inside the Black Box, which has yellow, green, black, and white wires connected to it.

3) Connect the Wireless Receiver plug to the 4 pole connector in the Black Box. Be sure to align and match the colored wires correctly. Push the connectors together until it clicks.

4) Carefully place the new Wireless Receiver on top of the brake controller in the Black Box. Close Black Box.
Wireless Dump Transmitter / Receiver - Complete System
The wireless dump upgrade works with any Workman XL trailer. Now you can dump from anywhere within about 100 ft range of the trailer. No need to walk back to the trailer after you release the tailgate pins. Also, ideal for precision dump control as the operator can stand near the back of the trailer to visually see the material being dumped. Also great when a stubborn load sticks to the trailer bed. Our wireless system has 2 key chain, all weather sealed, remote controllers for use with multiple tow vehicles or multiple operators at the same job site. Easy to install complete kit with everything you need.

3 Year Extended Warranty
Extend your standard 1 year warranty to 3 years with this optional warranty! Enjoy peace of mind and extend your warranty to a full 3 years from the date of purchase. The Workman trailer’s optional Extended Warranty applies to the original purchaser only and may not be assigned or transferred to subsequent owners. Extended warranty adds two additional years to the included one year warranty giving the owner a total 3 years of coverage. Coverage is identical to the standard manufacturer’s warranty. During the period of warranty, ABI will repair or replace any parts covered by the warranty that are deemed by us to be defective in materials or workmanship. Periodic replacement of normally wearing parts is the responsibility of the owner. During the warranty period the warranty holder is responsible for machine transportation charges, if required. Does not cover damage from neglect, abuse, or use that is inconsistent with instructions in the Owner’s Manual. Attachments and accessories not included. * Normally wearing parts include: tires, brakes, etc. U.S. customers only.

Controller Wiring Kit (For Second Tow Vehicle)
If you need to have more than one tow vehicle operate the trailer brakes or use the electric lift on the Workman XL, this kit provides everything you need to wire a second vehicle.

Positive Ground Relay (Required For CanAm & Ranger)
The electric braking system of the Workman XL is not “out-of-the-box” compatible with a small number of ATVs. Because the Workman XL has its own brake controller onboard, all it needs from the ATV to trigger the trailer brakes is an electrical signal. Some ATVs send the wrong signal that causes the brakes not to function. To correct this, for the vast majority of ATVs, ABI has created an option for the trailers called the “Positive Ground Relay”. Any “Positive Ground” electrical system will need this option for the brakes to work. This option may not work for a few older ATVs, this is very rare, in which case the customer will need to take his / her ATV to his powersports dealer to have the braking system modified. This is a required option for CanAm and Polaris Ranger vehicles.

Stake Pockets (D.I.Y. Sidewall Extension Mounts)
Stake pockets enable you to mount “do-it-yourself” wooden sidewall extensions. Use these pockets to secure your own sidewall extensions that you custom build to suit your own needs. The pocket has 2 pre-drilled holes for mounting to the sidewall of the trailer. The owner must drill through the 14 Ga. steel of the sidewall and secure the bracket as needed. No mounting hardware is provided. The pocket is designed to receive a 1” x 4” piece of lumber. It is common for 6 pockets to be used a trailer. 2 right side, 2 left side, 2 front...some even add 2 to the tailgate.

Tire Wheel Combo (Spare or Replacement)
Don’t allow your work or adventure to be stopped with a flat tire! Add confidence and security with a matching spare tire and wheel combo assembly. This is not a donut spare, but the a matching replacement to that which came on the trailer. The tires are not for highway use. Don’t forget to add an optional spare tire mounting kit if you want your tire/wheel combo to mount to the tongue of your trailer. Tire mounting kit, tools and jack not included.

Spare Tire Mounting Kit
This spare tire mounting kit secures a tire and wheel combo (sold separately) to the front of the trailer frame for secure and out of the way storage of a spare tire. Enjoy the piece of mind of knowing a flat tire won’t stop you on the trail or at the back of your property. Bring a spare tire along for the ride, yet don’t loose any dump bed capacity! Spare tire mounting kit attaches to the trailer tongue of Workman Trailer.