

## **SAFETY AND OPERATING PROCEDURES FOR THE ELECTRICALLY ACTUATED TRACK SETTER**

To achieve optimum performance from your Advance Track Setting Systems (ATS) Electrically Actuated Track Setter and to ensure your personal safety and the safety of others, please follow the recommended safety and operating procedures.

### **SAFETY FIRST!**

- **Always conduct a pre-use hazard assessment and ensure appropriate controls are considered before grooming.**
- **Always be aware and respectful of all trail users while grooming and that you may not be able to control their behaviors. Expect the unexpected.**
- **Do not allow riders on this implement while in tow.**
- This equipment is intended for grooming snow covered surfaces only.
- Be sure the surface to be groomed is free from obstacles that may interfere with the various grooming procedures such as rocks, trees trunks, tree stumps, protruding pipes, culverts, posts or any steel markers.
- Use proper body mechanics when loading, unloading or maneuvering any ATS implement.
- Always get assistance to load or unload the Electrically Actuated Track Setter to/from truck or trailer.
- Reduce risk of strain or slipping when pulling on the Electrically Actuated Track Setter loaded with weights manually by using two people or removing the weights or snow first.
- Do not place weights on the Electrically Actuated Track Setter in a manner where one or more could fall off.
- It is recommended to use weights with a 1-1/4"/3cm hole in them where they can easily slide over the weight pin.
- Be aware of pinch points when adding or removing weights.
- Always remove any weights before attempting to lift onto its side for storage.
- Use only the supplied flat plate, pintle hitch or ball style hitch connector when attaching the Electrically Actuated Track Setter to your towing vehicle.

## ASSEMBLING THE ELECTRICALLY ACTUATED TRACK SETTER AFTER SHIPMENT

- The Electrically Actuated Track Setter will require only minor reassembly after receipt and unpacking. The procedure is straight forward.
- Remove the tie down straps and carefully lift the Electrically Actuated Track Setter off of the crate base. You will require a Philips and Robertson screw driver or electric screw gun and snips.
  - It is recommended to use two people for this little operation



- Install the Tow Bar with supplied lynch pins. Ensure washers are installed. Use a soft face hammer to drive the pins out and in as they are a snug fit.

## ELECTRICAL CONNECTION FOR THE ELECTRIC ACTUATOR

- Towing machines will be varied so the electrical connection procedure will be kept general.
- Using supplied toggle switch, fuse holder, electrical connectors and conductor cable to provide 12V DC power from the towing machine to the actuator. Follow the attached 12V DC linear actuator wiring diagram in the instruction manual. **Failure to do so may cause damage to the actuator and void the warranty.**
  - It is recommended to solder all connections
  - It is recommended to heat shrink connections
- Some towing machines may have a spare 12V DC terminal/fuse available while other machines will require connections directly to the 12V battery.
- Mount toggle switch in appropriate/convenient location for the operator.
  - Creativity will be required as each towing machine will be different.
- Ensure the conductor cable has enough length to allow for turning.
- Ensure the conductor cable is secured to prevent being caught on moving parts or dragged on the ground.
- It is recommended to use tie wraps.

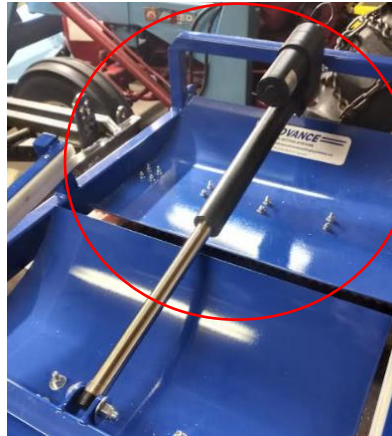
### **OPERATING THE ELECTRICALLY ACTUATED TRACK SETTER**

*There are critical operating requirements/procedures that must be followed to prevent damaged to the Electrically Actuated Track Setter and get satisfactory grooming and track setting results.*

- **ALWAYS RETRACT THE SLIDING PAN ELECTRICALLY ACTUATED TRACK SETTER BEFORE MAKING ANY (90 deg) SHARP TURNS**



- **ALWAYS RETRACT THE SLIDING PAN ELECTRICALLY ACTUATED TRACK SETTER BEFORE PROCEEDING THROUGH ANY DEEP DITCHES**
- **ALWAYS RETRACT THE SLIDING PAN ELECTRICALLY ACTUATED TRACK SETTER BEFORE BACKING UP**
- **ALWAYS RETRACT THE SLIDING PAN ON THE ELECTRICALLY ACTUATED TRACK SETTER FULLY BEFORE CROSSING GRAVELLED, ASPHALT, CONCRETE ROADS OR SIDEWALKS**
- **ALWAYS PROTECT THE ELECTRONIC ACTUATOR FROM BEING STRUCK, BENT OR SCRATCHED.**
- **DO NOT OPERATE THE ELECTRICALLY ACTUATED TRACK SETTER IN TEMPERATURES LOWER THAN -26 DEG.C AS DAMAGE TO LINEAR ACTUATOR MAY OCCUR**



- ***ALWAYS DISCONNECT THE ELECTRICAL CONDUCTOR TO THE ELECTRICALLY ACTUATED TRACK SETTER WHEN UNHOOKING FROM THE TOWING MACHINE.***

## **SETTING TRACKS**

- For best results set tracks over a previously packed surface. Packing can be accomplished by simply driving the towing vehicle over the complete trail, or rolling or grooming with an ATS Trail Roller Groomer or Renovating Leveler
- The Electrically Actuated Track Setter get its track setting compaction and forming capability (downward force) imparted by the weights added/stacked on the weight pin.
- Load at least up to 200 pounds/90kgs of weight on the Sliding Pan Weight Pin for best snow compression.



**Note: make sure the weights are no larger than 10” in diameter as they will contact the rear cross member damaging the track setter**

- Under optimal snow conditions, where the packed base is at least 2-3 inches deep, extend the Sliding Pan of the Electrically Actuated Track Setter into the snow surface until the actuator reaches the end of its stroke.



- For conditions where the base is less than 2-3 inches deep, it is possible to set shallower tracks by only lowering the Electrically Actuated Track Setter only sufficiently enough to match available snow depth.  
This can be accomplished by extending the actuator only sufficiently enough to form tracks
- ***Caution: for packed bases less than 2-3 inches, the pre-cutters may dig up grass and roots. Damage may occur.***
- Ensure the power cable is connected to the 12 V DC supply on the towing machine.
- Using the toggle switch, extended the Electric Actuator.
- Tow at low speeds to allow the Electrically Actuated Track Setter to compress and form a more solid and lasting track, about 5 to 8 km per hour if possible.
- It is recommended to allow the freshly set tracks to “set/rest/setup” for a time period if possible preferably over night to allow the snow crystals to bond/stabilize/sinter. This however is not always practical.

### **MAINTENANCE AND STORAGE**

- Do not use sharp tools to remove any buildup of ice on the Electrically Actuated Track Setter. Gently tap ice with a soft face tool, plastic tool/shovel or piece of wood.
- If desired, remove snow from the pan before storing the Electrically Actuated Track Setter on its side or off the snow.
- Place wooden blocks under runners to prevent sticking to snow.
- Store in a dry area to help prevent rusting over time if possible.
- It is recommended that the implement be tarped for long term off-season storage.
- Ensure the polyurethane comb and track shoes are protected from ultraviolet rays during long term storage.
- Check the wiring connections regularly.
- Ensure tow bar and cutting bed retaining pins are in place and secured with lynch pins.
- Lubricate the pivot points on the Electrically Actuated Track Setter monthly during grooming season with a moly spray or silicon lubricant.
- Lubricate the HDPE slides on the sliding pan with a silicon lubricant on the Electrically Actuated Track Setter monthly during grooming season.