

SAFETY AND OPERATING PROCEDURES FOR THE RENOVATING LEVELER

To achieve optimum performance from your Advance Track Setting Systems (ATS) Renovating Leveler 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 Renovating Leveler to/from truck or trailer.
- Reduce risk of strain or slipping when pulling on the Renovating Leveler loaded with weights manually by using two people or removing the weights or snow first.
- Do not place weights on the Renovating Leveler in a manner where one or more could fall off.
- It is recommended to use weights with a one and one quarter inch 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 or ball style hitch connector when attaching the Renovating Leveler to your towing vehicle.

ASSEMBLY

- There is very minimal assembly required after shipment. At most, installation of the Tow Bar which is typically shipped underneath the Renovating Leveler.
- Remove the 3/16" lynch pins on both the Tow Bar Pins and tap them out with a soft face hammer. Do not lose the washers.



- Set the Tow Bar in position and reinstall the Tow Bar Pins. Again, use a soft face hammer to drive the pins back in place through the Tow Bar clips. Put the washer over the pin and reinstall the 3/16" lynch pins.



RENOVATING AND LEVELING

- The Renovating Leveler is designed to pack new snow or renovate the existing base by either grinding new snow into the base to add air (decrease density) or remove air (increase density).
- When packing, lower the cutting bed using a combination of the rear jack and adjusting the front of the cutting bed with the mounting pins only as far as necessary to “mechanically age” new snow while towing. If there is too much resistance, raise the cutting bed to a height where towing is possible. Some experimentation will be required to obtain desired results as there are a number of variables at play (snow conditions, temperature, and speed being the main three).
- Under very deep snow conditions you may have to prepack some of the new snow with just the towing vehicle or a roller.
- To mix new snow into the base or tear up an older base, (renovating), lower the cutting bed as far as needed using both front mounts and rear jack. **Multiple passes may be required and will depend on your desired results.** Some experimentation will be required to obtain desired results as there are a number of variables at play (snow conditions, temperature, and speed being the main three)
- Addition of supplemental weights (up to 200lbs) on the Weight Pins is recommended to apply downward force on the base for renovating, packing and grooming
- Maximum recommended towing speed for packing and leveling is 5 to 10 kpm. For best results, the slower the better.



- Do not be alarmed with snow build up on top of the Renovating Leveler. In fact, it adds more weight and produces better results.



MAINTENANCE AND STORAGE

- Do not use sharp tools to remove any buildup of ice on the Renovating Leveler. Gently tap ice with a hammer or piece of wood.
- Use a plastic shovel to remove excess snow off the Renovating Leveler to avoid damaging the painted surfaces.
- If desired, remove snow from the pan before storing the Renovating Leveler 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 is protected from ultraviolet rays during long term storage.