

PRO-TECH SNO PUSHER®

PULL BACK BACKHOE (PBB) & SKID STEER (PBS) MODELS



Operating your PBB or PBS Unit

The Pro-Tech Sno Pusher® is designed with several exclusive features to ensure safe and efficient snow removal. The heavy duty rubber cutting edge is combined with front and rear angled wear shoes. This minimizes potential damage to your machine by enabling the Sno Pusher to move over raised manhole covers, low curbs and other obstructions. At the same time you will maintain surface contact close enough for superior snow, flood and waste water removal purposes.

To ensure your unit will provide you with years of service with minimal maintenance follow these simple instructions:

1. Once the Sno Pusher is properly attached to your machine it **MUST** be leveled **BEFORE** plowing.
2. To level the unit set it down and adjust the curl of your bucket, making sure that **BOTH** wear shoes are resting squarely on your plowing surface. In addition, Pro-Tech also sells a level gauge and self-leveling shoes that assist in keeping the unit level.
3. To ensure proper contact drive your machine forward approximately 20', check surface area under your machine to ensure that plowing area is clean. If your plowing area is not completely clear, feel free to loosen the tension of binder(s) to allow your Sno Pusher to vertically adjust for maximum surface contact. Your Sno Pusher will not remove hard-pack; therefore clear this with the steel edge of your bucket after snow removal.

IMPORTANT: Binders must be properly tightened prior to transportation or high speed use.

4. **DO NOT** apply down force to the unit while plowing. This will considerably shorten the life of your wear shoes and this is **NOT** necessary for proper plowing.
5. **FOR PBB OWNERS:** To use the second edge on your pusher, tilt your bucket forward until the second edge becomes flush with the surface. Once the second edge is level with the surface put the backhoe in reverse and you will begin to pull snow away with the pusher.

USER'S GUIDE

Pull Back Backhoe (PBB) & Skid Steer (PBS)

6. FOR PBS OWNERS: To use the second edge on your pusher, extend your skid steer arms all the way. This will bring the second cutting edge flush with the surface. Once arms are extended and the cutting edge is flush on the ground put the skid steer in reverse and you will begin to pull snow away with the pusher.

Attaching your Sno Pusher PBB Model

(See next page for illustrations)

Attaching the Sno Pusher to your machine is made easy with Pro-Tech's Quick Change™ Design.

1. Drive the cutting edge of machine's bucket into the post receptacle on the back of the Sno Pusher. (Figure 1)

The bucket will come to rest against the 12" structural steel channel reinforcement. The upper posts will fit inside the bucket and should be centered. The lower posts will be positioned under the bucket.

2. Attach the chains and binders to secure the Sno Pusher to your machine.

Installing the Binder Kit

(See next page for illustrations)

1. Grab hooks are to be welded to the side or back corners of your machine's bucket.

The location you choose MUST allow chains to be positioned parallel to the ground when attached. This will ensure easy centering of the Sno Pusher to your machine.

2. Attach one section of transport chain to the left side of the Sno Pusher using a 3/8" clevis.

Drop opposite end of this chain into grab hook on the left side of the bucket. Leave enough slack in the chain to allow centering of the unit.

3. Attach additional section of transport chain to the right side of the Sno Pusher using a 3/8" clevis. (Figure 2)

Drop opposite end of this chain into grab hook on the right side of the bucket. Leave enough slack in the chain to attach the ratchet binder and allow centering of the unit.

4. Now that both chains are in place, lift the Sno Pusher off the ground by raising the bucket then tighten the ratchet binder.

Add or remove slack in the chains to center the Sno Pusher on your machine. Once centered, chains MUST be tightened with the binders.

CAUTION: Do not use the lift hooks located at the top and rear of the Sno Pusher for chain attachment. These hooks are designed for lifting the unit only and not for plowing.

For PBB, Binder Kit Includes:

2 – 5' sections of 3/8" P-70 Transport Chain

2 – 5/16" Grab Hooks

1 – 3/8" CM Heavy Duty Ratchet Binder

2 – 3/8" Clevis Attachments

Attaching your Sno Pusher PBS Model

Your Pro-Tech Sno Pusher® Skidsteer Model (SPS) is equipped with the manufacturer's OEM Quick Coupler

1. Remove the bucket from your skid-steer
2. Drive machine into the adapter located on the back of the Sno Pusher.
3. Engage the locking pins

Maintenance

Your Pro-Tech Sno Pusher® requires only minimal service to remain in top condition. Follow these simple guidelines to ensure proper plowing and long life:

RUBBER

The heavy duty rubber cutting edge on every Sno Pusher is both reversible and adjustable. On the PBB models this rubber is 1 ½" x 10" thick and on the PBS models the rubber is 1" x 6". To ensure several years of service perform periodic inspections and adjustments following these simple guidelines:

IMPORTANT: A warm piece of rubber is much easier to adjust than one that is cold. It is highly recommended that your machine be placed in a warm place whenever making adjustments.

1. Always begin by placing the Sno Pusher on a smooth, flat surface when making any adjustments. Then place a ¼ inch object under the wear shoes to raise the Sno Pusher a ¼ inch above the level surface.
2. Loosen all bolts fastening the rubber to the Sno Pusher. It is NOT necessary to completely remove the bolts.
3. Using a large mallet or pry bar, adjust the rubber so that the rear, bottom edge just touches the ground.
4. Once rubber is properly positioned begin tightening the bolts. Starting in the center, work toward the side plates tightening the bolts enough to create a substantial bow in the 4" flatstock hold down.

IMPORTANT: We recommend using a ¾" impact gun to ensure proper bolt torque (120 ft-lb).



Figure 1



Figure 2

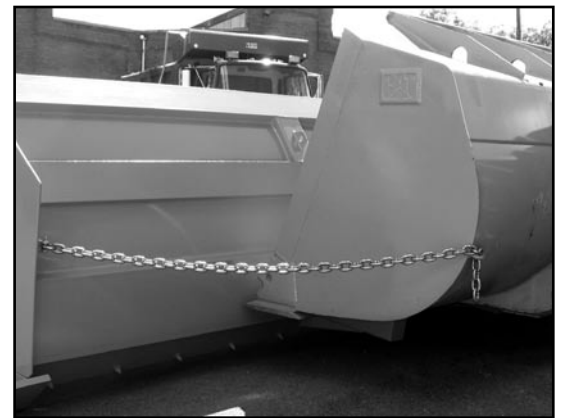


Figure 3

WEAR SHOES

Every Sno Pusher is equipped with two High-carbon Alloy Wear Shoes that are bolted-on and replaceable to provide seasons of use by offering superior protection against wear and tear. When replacement is required, follow these guidelines:

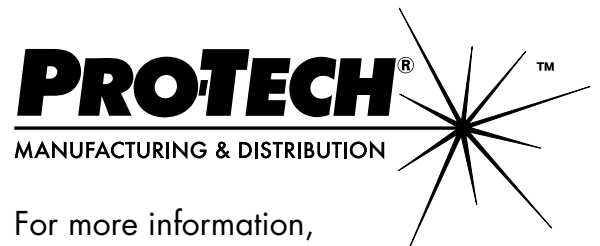
1. Raise your Sno Pusher off the ground and secure the unit under the lower, rear receptacle posts and the side plate reinforcement angles using dunnage or jack standards.
2. Loosen all six bolts fastening the wear shoe to the unit and carefully remove.

IMPORTANT: Wear shoes are very heavy, please use caution during the removal and installation.

3. Position new wear shoe on left side and right side.
4. Install bolts, washers and locking nuts. Tighten bolts slightly, only enough to ensure that they won't fall off.
5. Lower unit on level surface and torque bolts (120 ft-lb) securely into place.

Be sure to always use Pro-Tech replacement parts.

RP1001 – PBB Binder Kit
RP2011 – Standard wear shoe for PBB/PBS
RP2031 – Heavy Duty wear shoe for PBB/PBS
RP2051 – Super Duty wear shoe for PBB/PBS
RP2091 – Self Leveling shoe for PBB/PBS
RP2013 – Standard Front wear shoe for PBB/PBS
RP2033 – Heavy Duty Front wear shoe for PBB/PBS
RP2053 – Super Duty Front wear shoe for PBB/PBS
RP2250 – 6' Rubber Cutting Edge for PBS
RP2252 – 8' Rubber Cutting Edge for PBS
RP2254 – 10' Rubber Cutting Edge for PBS
RP2255 – 12' Rubber Cutting Edge for PBS
RP2202 – 10' Rubber Cutting Edge for PBB
RP2203 – 12' Rubber Cutting Edge for PBB
RP1200 – Level Gauge



For more information,
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