

## <u>Ten Toboggan Reminders</u>

25-26

The **10 Toboggan Reminders** review the NSP Central Division Practices & Procedures for safely operating toboggans. Please review this page before teaching patrollers. Scan or click the QR code for video.

1. <u>Inspect the toboggan:</u> Check all attachment points, nuts, bolts, and tail rope condition, especially on older toboggan models where the tail rope or carry ropes might pull through the body, & for loose or missing parts. Also, inspect handles, handle locks, fins, patient straps, chain, & chain brake release.

## 2. Fanny Packs and Backpacks must not be worn while in the lead position.

3. <u>Approach: Handles Unlocked</u>: The safest, most efficient, and direct route to the accident scene should be taken. An athletic stance allows you to manipulate your skis or board more easily and quickly. Hands are on the handles, approximately at hip height, and slightly in front of the body with a slightly lose grip to reduce the transfer of motion from you to the sled. Ski & Telemark Alpine Basics will use of the wedge, parallel skiing, sideslip, and/or falling leaf for the approach, Alpine Basic snowboarders will use the sideslip. *Senior-level patrollers* will ski (with short-swing turns) the toboggan to the accident scene. Snowboarders will ride to the accident scene and may ride with one hand on the crossbar or both hands on one handle. The goal is to minimize the toboggan's lateral movement so it follows you smoothly and consistently as you descend the slope.

The Patroller stops a safe distance uphill and to the patient's side to assess the scene and communicate with the patroller on the scene to determine the positioning of the toboggan. The final approach can involve pulling in or backing in the toboggan. *Senior Patrollers* will back the toboggan in. When beginning the final approach, initiate a "J" shape sideslip pulling the toboggan backward across the slope and away from the patient. Then, utilize your inertia to slide the toboggan forward and below the patient. Tipping the toboggan onto the downhill fin makes it easier to maneuver. The Central Division believes that all patrollers should be taught to position a toboggan for patient pickup without locking a handle. A snowboarder may choose to lock one handle to aid in positioning, but must remain in contact with the body of the toboggan. In deep snow, it is acceptable for a skier to lock one handle to prevent the toboggan from filling with snow.

- 4. Loading a Patient: The toboggan must be securely anchored when loading the patient. This can be done by having a patroller hold the toboggan with the handles locked, dropping the chain under the bow, or pushing the handles into the snow. Alternatively, skis or poles can be placed through carry ropes, or slide arrest anchors built into newer toboggans can be used. The operator can decide if it is more prudent to lock the handles before or after loading the patient; however, it is usually easier to lock the handles prior to loading the patient. Once the lead has operational control of the toboggan (with the handles locked), the anchor can be removed. Effective communication is crucial for safety.
- 5. Lead Operator: Position in the handles: As a skilled OET operator, you'll discover the advantages of working in all areas of the handles, both inside and outside. The key is understanding how positioning in the handles affects your performance. An athletic stance provides optimal control, and braking. Patrollers should be cautious when using the crossbar while in the handles on steep slopes, as pushing against it (backward, uphill) can reduce friction for the nose of the toboggan and chain, causing you to lose balance. An athletic stance allows for greater control in applying downward *pressure* on the handles, generating more friction. The lead operator's responsibilities include selecting a fall line route that is safe for the patient and customers. Provide a smooth and continuous pace and provide effective braking, including feathering of the chain if used, throughout the run and maintain the ability to execute an emergency stop if necessary. A secondary brake is essential for the patroller, patient, and public safety. This can be a tail rope or a readily deployable chain brake. While the sideslip is our primary method of transporting a toboggan downhill, it may be necessary to switch to the opposite side. The goal for all alpine and telemark patrollers should be to perform a quality pivot slip with simultaneous edge change and without lifting a ski. Snowboards should utilize torsional flex to pivot the board.
- 6. <u>The Chain Brake</u> Use of the chain brake is always at the operator's discretion unless operating alone. Feathering the chain enhances the efficiency of running the toboggan. Adjust your position in the handles and primarily use your legs to manipulate the chain pressure. Always inspect the chain to ensure it is hanging freely on the toboggan's bow so it can drop without interference.
- 7. Deployable Chain Release: When operating a toboggan alone, the chain brake must be in a deployable position, usually held in, or in front of the hand, off the handle stop (dead-man position). This ensures that the chain activates if the operator loses contact with the handles. Depending on the conditions, the skill level of the operators, or the size of the occupant, having the chain in a deployable position can be advantageous. In case the lead falls, the chain deploying automatically can help the tail person regain control of the toboggan. The primary objective is always to prioritize the safety of the patient, the public, and the team.







Tele Approach



Tipping the Toboggan









Tele Lead



Pivot Slip: Ski



Pivot Slip: Tele





## ren toboggan reminders

## B. Tail Rope:

**Role:** The Tail Rope operator's responsibilities are to monitor the patient's safety, observe the uphill traffic, assist in secondary braking, assist with control when the toboggan deviates from the fall line, and maintain communication with the lead operator.

**<u>Positioning</u>**: The tail rope operator should be positioned uphill of the rear of the toboggan, in the fall line. Maintaining functional tension on the rope helps control the toboggan. When the lead performs a direction change down the fall line, an alpine/tele skiing tail operator waits until the lead completes their maneuver and becomes stable before performing their transition. Snowboarders should stay on their heel sideslip and will <u>never transition</u> while on the tail rope. When traversing across the hill, the Tail Rope Operator should maintain control and position themselves above and slightly behind the rear of the toboggan to minimize the toboggan slipping. The tail rope remains in the fall line with slight tensioning.

**Rope Handling:** The tail rope should be held with both hands in front of the body, at the waist to mid-thigh level (the center of mass). This position helps maintain pressure on the downhill ski or the edge of the board. Be careful that the uphill hand doesn't extend behind the uphill front pocket as that can alter your athletic stance, moving you more aft. The exception would be in belaying the toboggan. For the alpine/ tele patroller, the downhill hand, closest to the toboggan, controls the functional tension of the tail rope. To achieve this, the operator manages the appropriate length of rope by gathering and releasing it. This maintains functional tension to assist the Lead Operator. A Snowboarder may hold the rope with either hand. It's recommended to have a maximum of one coil of rope in the hands. The other hand loosely holds the looped end of the tail rope.

9. <u>Traversing the Hill:</u> Traversing the hill requires utmost caution due to the toboggan's length, the slopes' pitch, and the limited visibility to the public. Be vigilant for uphill traffic and communicate with the tail operator. Pressure and tip your ankles & knees in to the hill to create sharp lines in the snow. <u>To prevent the toboggan from slipping</u>, press the downhill handle firmly to engage the downhill fin more <u>effectively</u>. There are two methods for executing a direction change.

**Type 1:** The lead operator will set an edge to initiate the downhill <u>traverse</u> across the hill by pressing the downhill handle. The tail rope operator should position the tail rope in the fall line, above and slightly behind the rear of the toboggan. Once a point is reached on the other side of the hill, the lead operator will prepare for the transition. They will release the edge set and initiate a sideslip to position the toboggan and the tail rope in the fall line. Falling leaf and edging skills can be employed to maneuver the toboggan into the fall line. Once the toboggan and tail rope are in the fall line, the lead operator will transition and continue the sideslip, maintaining it until the tail rope operator completes their transition and assumes a stable sideslip position.

**<u>Type 2</u>**: This variation enables a swift change in direction for the team. The transition happens during the traverse before the toboggan enters the fall line. The lead operator initiates an edge set to begin the traverse across the hill, pressing down on the **downhill** handle. The tail rope operator positions the tail rope in the fall line, slightly above and behind the rear of the toboggan. To prepare for the direction change, the lead operator transitions while the toboggan is in the traverse and before entering the fall line. The lead operator then sideslips down the fall line in a stable sideslip position. The falling leaf and edging skills are utilized to maneuver the toboggan into the fall line. Once the toboggan and tail rope are in the fall line, the tail operator transitions and continues the sideslip, maintaining the sideslip until the tail rope operator completes their transition and assumes a stable sideslip position.

When operating a toboggan alone, refrain from attempting to traverse moderate to steep slopes due to the inherent risk of the toboggan slipping.

10. <u>Completing a Run</u>: The most efficient way to transport the toboggan to its final destination is to use the most suitable path and technique. An alpine patroller can employ a combination of a wedge or a power wedge. On the other hand, more advanced or senior-level patrollers should "ski" the toboggan, executing short turns with minimal impact on the toboggan's track. Additionally, having the tail operator come alongside the lead on flat terrain can assist in pulling the toboggan. Lifting the handles can reduce friction, helping the toboggan slide smoothly on shallow terrain. Communication is key. rev. 3/16/2025









Tob Moguls: Tele



Tob Moguls: Whisker Gates



SB Tail



