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For Additional Information,
Please contact DynAccess:



Torque Monoski Owner's Manual

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Introduction

Thank you for purchasing a DynAccess Torque monoski. We appreciate your business and are committed to providing you with not only a quality product, but excellent service. The following pages will provide you with basic information for your new monoski.



Warning!

It is essential that you read this manual and make sure you fully understand your new monoski and its features before using it. Please pay special attention to the safety information and cautions to help you avoid serious injury. If you have any questions or do not understand something, please contact DynAccess directly.

Note: This manual is not intended as a comprehensive use, service, repair or maintenance manual. Please contact DynAccess for all service, repairs or maintenance.

Disclaimer: DynAccess Ltd is not responsible for any damages to you or others arising from riding, transporting, or other use of your Torque monoski. In the event that your monoski breaks or malfunctions, DynAccess shall have no liability beyond the repair or replacement of your monoski pursuant to the terms outlined in the warranty provisions of this manual.

Safety First



Warning!

Like any sport, riding a monoski involves risk of injury and death. By deciding to ride a monoski, you assume the responsibility for that risk. In order to reduce that risk, we strongly urge you to read and follow the safety information and cautions in this manual.

Please note that it is impossible to anticipate every situation or condition that can occur while riding a monoski. This manual makes no representation about the safe use of your monoski under any condition. There are risks associated with the use of any monoski which cannot be predicted or avoided, and which are the sole responsibility of the monoskier.

1. Correct Fitting

- Make sure that your monoski fits correctly to your body, riding style and riding conditions. If your monoski does not fit properly, it increases the risk that you may lose control. Making the proper adjustments to your monoski requires experience and skills. If you are unsure about how to adjust your monoski, we recommend you take it to a specialized workshop or contact us directly before riding.
- For fitting you in the bucket seat, see p.6
- For foot rest adjustment, see p.6

- For adjusting the center of gravity, see p.5
- For adjusting the ride height, spring rate, rebound and compression damping, please see the *Shock Manual*.

2. Mechanical Safety Check

- Routinely check the condition of your monoski before each use (e.g. loose bolts and nuts, cracks, fraying straps, etc.).
- In tightening the fasteners (e.g. nuts, bolts, and screws) on your monoski, use correct tightening torque. Incorrect tightening torque can result in component damage or failure.
- Make sure that the triglides used for both sides of non-sewn side-release buckles prevent the belts from slipping out of the buckles.
- Check the condition of the shock absorber for any visible damage and oil leakage.
- Check the air pressure in the Chamber 1 and 2 of the shock absorber. Please see the *Shock Manual*

3. General Safety on the slope

- Spend considerable time and effort to learn how to get on a chair lift, to sit on it safely, and to get off safely. Some chair lift seats are very thick and lead to you sit closer to the edge. Make sure you sit in a stable and secure manner without any risk of falling off. See “Using the Chair lift” section of this manual for details.
- If you are a beginner and/or are not familiar with ski slopes, always ski with a certified instructor.
- If you ride the monoski independently, make sure that you have enough knowledge and skills to ride it safely and under full control at all times.
- Ski on properly prepared ski slopes.
- Observe the rules on the slopes.
- Always wear a helmet which meets the latest certification standards and is appropriate for the type of skiing you do.
- Always wear ski gloves and goggles.
- Start slowly on easier terrain and build up your skills.
- Be familiar with how your suspension works as it changes the way your monoski performs.
- Avoid skiing alone, especially taking the chairlift.
- If you want to adjust the shock absorber on the slope, find a relatively flat place where there is no heavy traffic.
- Ride at speeds appropriate for the conditions. Higher speed in general means higher risk.
- Ride defensively and always under full control.
- Always assume that others do not see you.
- Don't do stunts or jumps.
- If you intend to do stunts or jumps with your monoski despite our advice not to, think carefully about your skills before deciding to take the large risks involved with this kind of riding.

- If possible, avoid riding in bad weather, at night, and anytime when visibility is limited.
- Pay attention to the snow conditions, which affects your ride significantly.

National Ski Areas Association “Your Responsibility Code”:

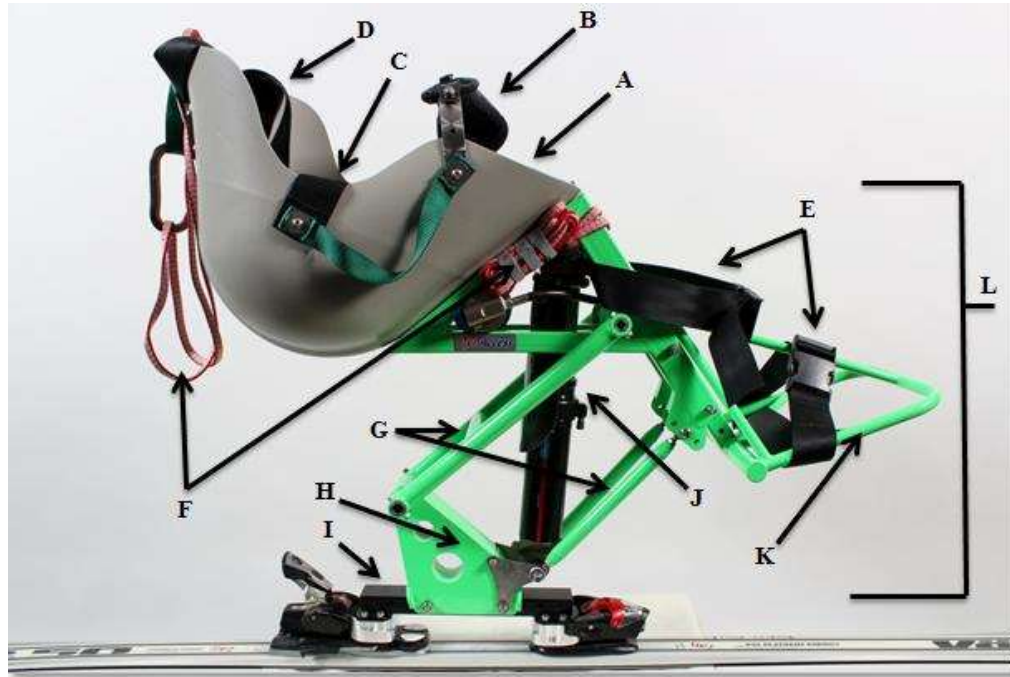
DynAccess is a member of the Rehabilitation Engineering and Assistive Technology Society of North America (RESNA). As a provider of adaptive sports equipment, we ask that you abide by the RESNA Adaptive Sports Equipment standard for responsible use:

Your Responsibility Code:

- 1.) Always stay in control – Be able to stop or avoid other people or objects.
- 2.) People ahead have the right of way. It is your responsibility to avoid them.
- 3.) You shall not stop where you obstruct a trail or are not visible from above.
- 4.) Whenever starting downhill or merging into a trail, look uphill and yield to others.
- 5.) Always use devices to help prevent runaway equipment (e.g., SMBs)
- 6.) Observe all posted signs and warnings. Keep off of closed trails and out of closed areas.
- 7.) Prior to using any lift, you shall have the knowledge and ability with or without personal assistance to load and unload safely.

General Description

Upon receiving your monoski, read the information below and become familiar with your monoski. The Torque consists of a frame, suspension links, and boot tower made of aircraft grade chromoly steel welded by licensed welders. The dual-stage air spring hydraulic shock is a product of Penske Racing Shocks and is highly adjustable (see *Shock Manual* for details). Various seat buckets can be mounted on the Torque, including DynAccess' thermoformed bucket seat complete with seat belts and bucket straps.



- A. Bucket Seat
- B. Ratchet Thigh Belt
- C. Lap Belt
- D. Chest Strap
- E. Leg & Foot Straps
- F. Evacuation Straps
- G. Suspension Links
- H. Boot Tower
- I. Foot Piece
- J. Shock Absorber
- K. Foot Rest
- L. Frame

Mounting the Seat:

A seat of your choice is already mounted on the Torque when delivered. If you should change to a different seat for the Torque, please contact DynAccess regarding its compatibility with the Torque.

In general, bolts and nuts have three different means of preventing getting loose: Nylon insert, lock nuts, and “nylock” should be discarded after each use. All-metal deformed-thread locknuts as well as the bolts should be discarded after each use. Thread locker such as “Loctite”, nuts and bolts can be reused with new thread locker applied.



Warning!

It is important to read **Manual for non DynAccess Seat on Torque** to properly mount your seat on the Torque. Failure to do so may result in serious injury or death.



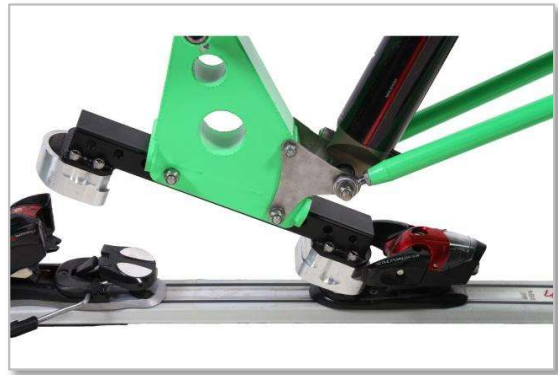
Warning!

Please be advised that some non DynAccess Seats are not optimal for the Torque, and mounting such a seat on the Torque may result in serious injury or death.

Mounting your Ski and Adjusting the Foot Piece:

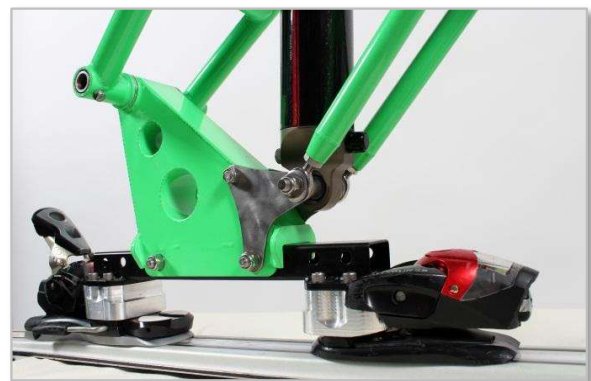
The DynAccess Torque can be fitted to the snow ski using conventional high-strength bindings. The standard length of a DynAccess foot piece is 325 mm, but other lengths (e.g. 300 mm as used by some Paralympic skiers) are also available upon request. To fit the Torque into your ski:

1. Make sure you completely understand your particular bindings and how they are adjusted.
2. Remove any snow or ice from your monoski's foot piece and the ski's bindings.
3. Secure the ski so that it does not slide, then raise the monoski to about a 45 degree angle and fit the tip of the foot piece into the front binding (see image).
4. Center the monoski over the ski and binding, keeping the tip of the foot piece in the front binding, and push down until the rear binding locks.
5. Check to ensure that the foot piece has locked into the bindings.
6. Many programs and skiers pin the front binding and block the rear binding such that they cannot release.



The frame can be adjusted forward or backward over the foot piece to change **your center of gravity**. To do this:

1. Locate the two screws connecting the boot tower to the foot piece.
2. Remove the two screws and put them in a safe place.
3. Slide the frame forward or backward to adjust for your center of gravity and center it with the proper holes. Align the holes perfectly, using for example a drift (tapered alignment pin).
4. Replace the screws to reconnect the boot tower to the foot piece. Take care to ensure that all screws are tightened properly. Do not over-torque the bolts.



Sitting in the Seat:

When sitting in the bucket seat, sit deeply so that it is snug throughout your entire hips and bottom. You may want to lean forward and wiggle down into the seat, adjusting so that your pelvis is as far into the rear of the seat as possible.

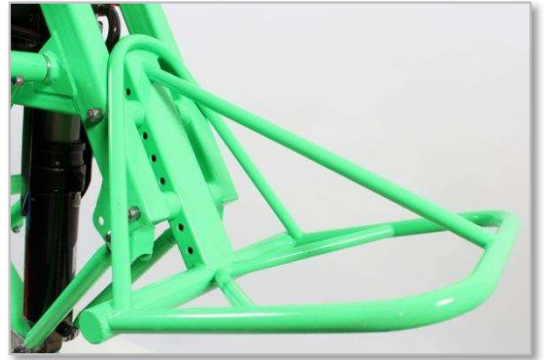
Once you are seated properly adjust the height of the footrest. You may want your thighs to contact the seat edge slightly, but not so hard that you could not slide a finger under your thighs.

Adjusting the Foot Rest:

DynAccess monoski comes with a wide foot rest as a standard. A narrower footrest is available as an option. You can adjust the height of the monoski's foot rest.

To do this:

1. Locate the two long screws attaching the foot rest to the rest of the frame.
2. Remove the screws and put them in a safe place.
3. Move the foot rest up or down as desired and center it with the proper holes.
4. Replace the screws to reconnect the foot rest to the rest of the frame. Take care to ensure that all screws are tightened properly!



Warning!

It is important to always have the footrest mounted on the monoski. The foot rest is a structural load-carrying member of the monoski. Thus, even skier who do not need the footrest should have it mounted.

Buckling your belts:

Your monoski comes with four strap belts and one ratchet belt. The buckles for the strap belts are non-sewn type that are easy to adjust. Straps are secured with a triglide on each side to prevent the straps from slipping out of the buckle.



Caution!

Before using the belts, make sure that the belt straps are threaded correctly through the buckles and are secured with a triglide on each side.

Once your feet are positioned on the foot rest, use the two straps to secure your legs just below the knees and at the ankles (see image).



Next, buckle in using the chest and lap straps. These should fit snugly across your chest and lap, securing your body to the seat. The lap belt should be relatively snug without causing discomfort. The chest belt can be snug or loose depending on the skier's disability.



The Shock:

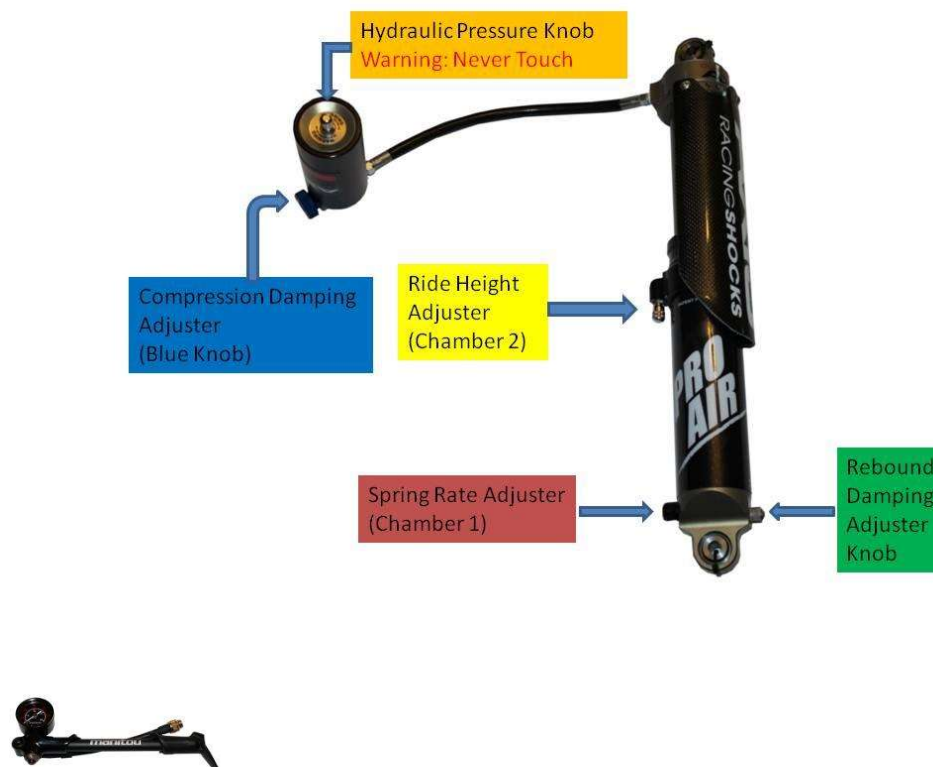
Penske Racing Shock's "Custom Axis Pro Air Monoski Shock"

DynAccess monoskis, such as the Torque 1 and Torque 2, are equipped with "Custom Axis Pro-Air Monoski Shocks". Custom Axis is an off-road division of Penske Racing Shocks.

DynAccess is the sole source for their monoski shocks.

Please refer to a separate Shock Manual on how to adjust the shock to your riding style and your preferences. There is quite a range of adjustment possibilities.

The shock has a dual chamber air spring (Chamber 1 and 2) and hydraulic damping (3), making our monoski fit for skiers with a wide variety of the weights and levels. Spring stiffness (spring rate), ride height, and compression and rebound damping can be easily and quickly adjusted by an air pump and easy-to-turn knobs.



Using the Chairlift without a lift mechanism:

The standard Torque is not equipped with a lift mechanism. The lift mechanism is available as an option. Due to the unique height of the bucket seat above the ski, loading onto a lift is in most cases simple and can be done with the use of outriggers or with the assistance of one or two ski buddies. Please note that you sit differently on different chairlifts. Pay special attention when you ride the chairlift at ski resorts that you are not familiar with. Always check any chairlift slowly and carefully before committing to ride it.

When using a chairlift:

1. Inform the lift attendants if you have any specific needs. They can slow down or stop the chair if desired.
2. Position your outriggers upright at your sides. As the chair approaches, push down on your outriggers to lift yourself up and back onto the seat.

PLEASE NOTE: The seat of the Torque is equipped with yellow side and rear handles for assistance in maneuvering the rig. These can be used for ski buddies and lift attendants to assist in lifting the Torque onto the chairlift.



Warning!

Never use the (red or purple) evacuation straps as handles.

3. Once on the lift, sit back as far as possible in your chair, lean back, and hold on to the chairlift. You may want to loop a strap through the monoski frame and around the lift chair to prevent you from falling off.



Warning!

Some chairs may use thick seat cushions, causing you to sit on the front part of the seat cushions. Make sure to push you in and sit back as far as possible and hold onto the lift chair.

4. To unload, unbuckle the carabiner and wait until you are as close as possible to the off-load ramp.
5. Push off the chair and ski away from the off-load area.

PLEASE NOTE: If you are a beginner skier, you may ask a ski buddy or instructor to help balance your rig using the side straps when first skiing away from the off-load area.

Evacuation:



Warning!

Never rely on the evacuation system of the monoski alone. It should always be used together with the main evacuation system equipped with the chairlift system. Failure to do so may cause serious injuries or death.



Caution!

For shipping, zip ties as well as Velcro straps are sometimes used over the evacuation straps. It may be a good idea to remove the zip ties carefully before using the monoski since they can be difficult to remove on the chair lift.

DynAccess uses a three-point evacuation strap system to distribute the weight from the rider and rig in the event of an evacuation. Three straps are currently used as evacuation straps.

In the event of an evacuation:

1. Always use a backup evacuation system together with the monoski evacuation system
2. Inform the rescue team that your monoski is equipped with an evacuation system.
3. Locate the evacuation line as directed by the rescue team.
4. Locate your rig's rear evacuation strap, found on the back of the bucket seat.
5. Release the carabineer and pull the evacuation strap up over your head. Attach it to the evacuation line. (If you are on the chairlift with another rider, ask for assistance to locate the rear strap).
6. Locate the two evacuation straps found on the frame beneath your knees, one on the left and one on the right side.
7. Release the Velcro straps securing the evacuation straps to the frame. Once the straps are free, pull them up and attach them to the evacuation line using the carabineer.
8. Screw the carabiner tight so it cannot open.
9. Once the evacuation line is taut, hold on to the evacuation straps and ride down with the rescue team.



Maintenance and Service

Frequent inspection of your monoski is important for your safety. Periodic, more detailed maintenance and service is also important. The frequency of the service and maintenance depends upon the use of your monoski, how hard you use it and where you use it. Because we can not track your use, you must take responsibility for periodically maintaining and servicing your monoski.

DynAccess recommends having the monoski professionally serviced at least once per year. DynAccess can check the monoski, replace worn hardware (bearings, rod ends, nuts and bolts, etc), repair any damage, and service the shock.



Warning!

Replacing any component on your monoski with other than genuine replacement parts and components is not recommended and may compromise the safety of your monoski and may void the warranty. It can result in serious injury or death.

Limited Warranty:

DynAccess Ltd. warrants all products to be free of defects in material or workmanship for a period of one year from the date of purchase.

This warranty applies only to the product's original owner and is non-transferrable. DynAccess Ltd. will, at its discretion, repair or replace any component that is deemed to be defective. DynAccess Ltd. is not responsible for the transportation or shipment costs associated with transporting the product to be repaired.

NOTE: These limited warranties do not apply to normal wear and tear, misuses, improper assembly, or neglect of the product.