

ICON

W H E E L C H A I R S



Icon A1 Adult Manual Wheelchair

Owner's Manual

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Introduction

Introduction

Thank you for choosing the Icon A1 Adult Manual Wheelchair.

This manual is designed to assist you with the operation of the Icon A1 Adult Manual Wheelchair. Before operating this wheelchair, it is important to read and understand all information in this manual in order to be able to use and operate the Icon Adult Manual Wheelchair safely and effectively.

Introduction

Specifications

Maximum Weight Capacity	265 lbs./120 kg
Seat Width	12"-19"
Seat Depth	14"-18"
Rear Seat to Floor Height	14.5"-23"
Front Seat to Floor Height	16"-23"
Rear Wheels	24", 25"

Testing Information

The Icon Adult Manual Wheelchair has undergone testing to meet selected applicable standards specified in Rehabilitation Engineering Society of North America (RESNA) Standard ANSI/RESNA WC/Vol. 1-1998 "Requirements and Test Methods for Wheelchairs."; specifically the sections addressing drop tests, double drum fatigue test, and flame retardant upholstery.

The Icon A1 Adult Manual Wheelchair complies to these voluntary standards.

In addition to the RESNA drop tests and double drum test, the Icon A1 has been tested through computer assisted Finite Element Analysis (FEA).

Read Before Assembly or Use

Choose the Correct Safety Options

The selection of your wheelchair, its options, and its adjustments is a shared responsibility with you and your health care advisor. Making decisions in absence of guidance from a trained health care advisor is not recommended. Choosing the best wheelchair and set up for your comfort and safety depends on a variety of issues, such as:

- Your functional muscle mass, strength, balance, and co-ordination.
- The types of hazards you face in daily use, such as where you live, work, other places you are likely to use your wheelchair.

- The need for optional equipment to increase your comfort and safety, such as anti-tip bars, positioning belts, or special seating systems.

Read This Manual Often

Before using your Icon Adult Manual Wheelchair, you and those who may assist you should read this entire manual and make sure to follow all instructions. Review the warnings often, until they become second nature to you, like children's stories read to you by a loved one.

Warning/Caution/Note Definition

The words WARNING, CAUTION, and NOTE carry special meanings and should be carefully reviewed.

WARNING

The personal safety of the wheelchair user may be affected. Disregarding this information could result in an injury.

CAUTION

These instructions point out special procedures or precautions that must be followed to avoid damaging the equipment.

NOTE

This provides special information to make maintenance easier or important instructions clearer.

General Warnings

Here you will find a safety checklist and summary of risks you and those individuals who may assist you need to be aware of before you ride the Icon Adult Manual Wheelchair. The word “WARNING” refers to a hazard or unsafe practice that may cause severe injury or death to you or to other persons. The “WARNINGS” are in five main sections, as follows:

Weight Limit

WARNING: Never exceed the weight limit of 265 lbs. (120 kg) for combined weight of rider and items carried. If you do exceed the limit, damage to your chair, a fall, tip-over, and/or loss of control may occur and cause severe injury to the rider or others.

Weight Training

WARNING: Never use this chair for weight training if total weight (rider plus equipment) exceeds 265 lbs. (120 kg). If you do exceed the limit, damage to your chair, a fall, tip-over, and/or loss of control may occur and cause severe injury to the rider or others.

Additional Riders

WARNING: Never allow more than one person to sit on or ride on the Icon Adult Manual Wheelchair, even if the additional rider would still keep you under the 265 lbs. (120 kg) weight limit.

Integral Components of Your Wheelchair

WARNING: The footrest of your wheelchair is an integral component, and must be secure and properly positioned when the chair is in use.

To Reduce the Risk of an Accident

WARNING:

1. Before riding, you should be trained in the proper and safe use of this chair by your health care advisor.
2. Practice bending, reaching and transfers until you know the limit of your ability. Have someone help you until you know what can cause a fall or tip-over and how to avoid doing so.
3. Be aware that you must identify and/or develop your own methods for use that are best suited to your level of function and ability.
4. NEVER try a new manoeuvre on your own unless and until you are sure you can do it safely.

5. Get to know the areas where you plan to use your wheelchair. Look for hazards and learn how to avoid them.
6. Use anti-tip bars unless you are a skilled rider and are sure you are not at risk to tip over.
7. Never place fingers or objects within the center of the seat or any of the moving parts associated with the suspension option.

Failure to heed these warnings could cause damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control, causing severe injury to yourself or others.

Safety Checklist

WARNING: Before Each Use of Your Wheelchair:

1. Make sure the wheelchair rolls easily and that all parts work smoothly. Check for noise, vibration, or a change in the ease of use. (They may indicate low tire pressure, loose fasteners, or damage to your chair).
2. Repair any problem. If you are unable to find the problem call or email for assistance or you can contact your health care advisor. Do not continue to use the chair until any problems have been identified and corrected.
3. If your wheelchair has quick-release axles, check to see that both quick-release rear axles are locked. When locked, the axle button will “pop out” fully. If not locked, the wheel may come off and cause you to fall.
4. If your wheelchair has anti-tip tubes, lock them in place.
5. Before using the wheelchair, make sure the solid seat is fully engaged.
6. Before riding the wheelchair, make sure the footrest is installed securely.

Changes and Adjustments

WARNING:

1. If you modify or adjust your wheelchair, it may increase the risk of damage to it, injury to yourself, a fall, a tip-over and/or loss of control and may cause injury to yourself and/or others.
2. It is recommended that you use anti-tip tubes until you adapt to the change, and are sure you are not at risk to tip over and/or lose control of the chair.

3. Unauthorized modifications or use of parts not supplied or approved by Icon will change the wheelchair, and void any and all warranties associated with the wheelchair.

Failure to heed these warnings could cause damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control, causing severe injury to yourself or others.

Environmental Conditions

WARNING: Use extra care if you must ride your chair on a wet, uneven, irregular or slick surface. If you are in doubt, ask for help or avoid the surface.

Failure to heed these warnings could cause damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control, causing severe injury to yourself or others.

Terrain

WARNING:

1. Your wheelchair is designed for use on firm, regular, even surfaces such as concrete, asphalt and indoor floors.
2. Operating your wheelchair in sand, loose soil or over rough terrain may damage wheels, axles, or other components of your wheelchair.

Failure to heed these warnings could cause damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control, causing severe injury to yourself or others.

Street Use

WARNING:

For The Rider

Ensure that you and all those who assist you read and follow all warnings and instructions.

For The Assistant

1. Work with the rider, and the rider's health care professional team to identify and learn methods best suited to your abilities and those of the rider.
2. Tell the rider what you plan to do, and explain what you expect the rider to do. This will put the rider at ease and reduce the risk of accident.
3. To prevent injury, use good posture and proper body mechanics. When you lift or support the rider or tilt the wheelchair, bend your knees slightly and keep your back as straight as you can.

4. Remind the rider to lean back when you tilt the chair backwards.
5. When you descend a curb or single step, slowly lower the wheelchair in one easy movement. Do not let the wheelchair drop the last few inches to the ground. This may damage the wheelchair or injure the rider.
6. Always lock the rear wheels and lock anti-tip tubes in place if you must leave the rider alone, even for a moment. This will reduce the risk of a tip-over and/or loss of control of the wheelchair.

Failure to heed these warnings could cause damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control, causing severe injury to yourself or others.

Warnings: Falls & Tip-Overs

Centre of Balance

WARNING: The point at which the wheelchair will tip forward, backward, or to the side depends on its centre of balance and stability. How your chair is set up, the options you select and the changes you make may affect the risk of a fall or tip-over.

1. The most important adjustment is the center of gravity. The more you move the seat assembly back, the more likely your wheelchair will be to tip over backwards.
2. The centre of balance is also affected by:
 - a. A change in the set-up of your chair, including the seat height and the seat angle and the backrest angle.
 - b. A change in your body position, posture or weight distribution.
 - c. Riding your wheelchair on a ramp or slope.
 - d. The use of a backpack and/or other options, and the amount of added weight.
3. To Reduce the Risk of An Accident:
 - a. Consult your health care professional team to find out chair geometry is best for you.
 - b. Contact Icon BEFORE you modify or adjust your wheelchair in any way that is not described in this Manual. Be aware, that based on the foregoing factors, you may need to make other changes to correct the centre of balance.

- c. Have someone assist you until you know the balance points of your chair and how to avoid a tip-over.
- d. If you have anti-tip tubes, use them.

Failure to heed these warnings could cause damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control, causing severe injury to yourself or others.

Dressing or Changing Clothes

WARNING: Your weight may shift if you dress or change clothes while seated in this chair. To reduce the risk of a fall or tip-over:

1. Rotate the front castors until they are as far forward as possible. This makes the wheelchair more stable.
2. If you have anti-tip tubes, lock them in place. If your wheelchair does not have anti-tip tubes then back your wheelchair up against the wall and lock both rear wheels.

Failure to heed these warnings could cause damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control, causing severe injury to yourself or others.

Wheelies

WARNING: Doing a “wheelie” means balancing on the rear wheels of your wheelchair while the front castors are in the air. It is dangerous to do a “wheelie” as a fall or tip-over may occur. Performed correctly and safely, a “wheelie” can help you overcome curbs and obstacles.

1. Consult your health care team to find out if you are a good candidate to learn to do “wheelies” using this wheelchair.
2. Do not attempt a “wheelie” UNLESS you are a skilled rider of this wheelchair and/or if you have assistance.

Failure to heed these warnings could cause damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control, causing severe injury to yourself or others.

Obstacles

WARNING: Obstacles and road hazards (such as potholes and broken pavement) can damage your chair and may cause a fall, tip-over and/or loss of control.

To avoid these risks:

1. Keep a lookout for danger; periodically scan the area well ahead of your chair as you ride.
2. Make sure the floor areas where you live and work are level and free of obstacles.
3. Remove the cover threshold strips between rooms.
4. Install a ramp to avoid steps or drop offs. Make sure there is not a drop off at the end of the ramp.
5. To help correct your centre of balance:
 - a. Lean your upper body FORWARD slightly as you go UP over an obstacle.
 - b. Press your upper body BACKWARD as you go DOWN from a higher to a lower level.
6. If your chair has anti-tip tubes, lock them in place as you go over an obstacle.
7. Keep both hands on the wheel hand rims as you go over the obstacle.
8. Never push or pull on an object (such as furniture or a door) to propel your chair.

Failure to heed these warnings could result in damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control, causing severe injury to yourself or others.

Reaching or Leaning

WARNING: If you reach or lean, it will affect the centre of balance of your chair. This may cause you to fall or tip over. When in doubt, ask for help or use a device to extend your reach.

1. NEVER reach or lean if you must shift your weight sideways or rise up off the seat.
2. NEVER reach or lean if you must move forward in your seat to do so. Always keep your buttocks in contact with the backrest.
3. NEVER reach with both hands because you may not be able to catch yourself to prevent a fall if the chair should tip.
4. NEVER reach or lean to the rear unless your chair has anti-tip tubes locked into place.

5. NEVER reach or lean over the top of the seat back. This may damage or destroy the backrest and cause you to fall.
6. If you must reach or lean forward, do not put pressure on the footrests because leaning forward already puts pressure on the footrests and may cause the chair to tip if you lean too far.

Moving Backwards

WARNING: You must exert extra care when propelling backwards. If the rear wheels hit an obstacle or catch on any protrusion, your chair could tip backwards if one or more of the rear wheels stops moving.

1. Move slowly and smoothly when pushing backwards.
2. If you have anti-tip components, lock them in place.
3. Make certain the area is clear behind you.

Failure to heed these warnings could result in damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control, causing severe injury to yourself or others.

Ramps, Slopes and Side Hills

WARNING: Riding on a slope, which includes a ramp or side hill, will change the centre of balance of your chair. Your chair is less stable when it is at an angle. Anti-tip tubes may not prevent a fall or tip-over.

1. Do not use your chair on a slope steeper than 10%. (A 10% slope means: one foot in elevation for every ten feet of slope length.)
2. Always go as straight up and as straight down as you can. Do not cut the corner on a slope or ramp.
3. Do not turn or change direction on a slope.
4. Always stay in the centre of the ramp. Make sure the ramp is wide enough that you are not at risk of a wheel going over the edge.
5. Do not stop on a steep slope. Stopping may cause you to lose control of your chair.
6. NEVER use rear wheel locks to try to slow or stop your chair. Your chair might veer out of control.

7. BEWARE OF:
 - a. Wet or slippery surfaces.
 - b. A change in grade on a slope, or a bump, a depression, or a lip. Any of those may cause a fall or tip-over.
 - c. A drop-off at the bottom of a slope. Just $\frac{3}{4}$ of an inch can stop your front caster and cause the chair to tip forward.
8. TO REDUCE THE RISK OF A FALL OR TIP-OVER:
 - a. Lean or press your body UPHILL. This will help adjust for the change in the centre of balance caused by the slope or side hill.
 - b. Keep pressure on the hand rims to control your speed on the down slope. IF YOU GO TOO FAST YOU MAY LOSE CONTROL.
 - c. Ask for help any time you are in doubt.
9. Ramps at home and work must meet all legal requirements for your area. Some ramp recommendations include:
 - a. **Width** should be at least 4 feet wide.
 - b. Install **guardrails** to reduce the risk of a fall. Alternately, raise the **borders** at least 3 inches.
 - c. **Slope** not more than 10% grade.
 - d. **Surface** should be flat and even, with a thin carpet or non-skid material. Make sure there are no lips, bumps or depressions.
 - e. **Brace** your ramp if there is any chance that it isn't sturdy or will bow.
 - f. **Avoid a drop off**. Use a section at the top and bottom to smooth out any transition.

Failure to heed these warnings could result in damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control, causing severe injury to yourself or others.

Transfer

WARNING: It is dangerous to transfer on your own. It requires good balance and agility. Be aware that there is a point during every transfer when the wheelchair seat is not below you.

TO AVOID A FALL

1. Work with your health care advisor to learn safe methods.

- a. Learn how to position your body and how to support yourself during a transfer.
 - b. Have someone help you until you know how to do a safe transfer on your own.
2. Lock the rear wheels before you transfer. The rear wheels will not roll but this will NOT keep you chair from sliding away from you or tipping.
 3. Make sure to keep pneumatic tires properly inflated. Low tire pressure may cause the rear wheel locks to slip.
 4. Move your chair as close as you can to the seat you are transferring to or from the chair. Use a transfer board, if one is available.
 5. Rotate the front casters until they are forward.
 6. Swing the footrests out of the way.
 - a. Make sure your feet do not catch in the space between the footrests.
 - b. Avoid putting weight on the footrests as this may cause the chair to tip.
 7. Make sure the armrests are not interfering with the process. They can be removed.

Failure to heed these warnings could result in damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control, causing severe injury to yourself or others.

Curbs and Steps

WARNING:

1. Do not try to climb or descend a curb or step alone UNLESS you are a skilled rider of this chair and you can
 - a. Safely do a wheelie and
 - b. You are sure that you have the strength and balance to do so.
2. If you have anti-tip tubes, unlock and rotate the out of the way so that they will not interfere.
3. Do not try to climb a high curb or step more than 4 inches high.
4. Go straight up and straight down a curb or step. If you climb or descend at an angle, it is likely that you will fall or tip-over
5. Be aware that the impact of dropping down from a curb or step may damage parts of your chair.

Failure to heed these warnings could result in damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control, causing severe injury to yourself or others.

Stairs

WARNING:

1. NEVER use this chair on stairs UNLESS you have someone to help you. Doing so is likely to cause a fall or tip-over.

If you fail to heed these warnings, damage to your chair, injury to yourself, a fall, a tipover, and/or loss of control may occur and may cause severe injury to yourself or others.

Escalators

WARNING: NEVER use this chair on an escalator, even with an attendant. If you do, a fall or tip-over is likely. This is extremely dangerous.

Failure to heed these warnings could result in damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control, causing severe injury to yourself or others.

Warnings: For Proper Use

WARNING: Before you assist a rider, be sure to read the warnings and follow all instructions that apply. Be aware that you will need to learn methods for use of this chair that are best suited to your abilities.

Learning to do a "Wheelie"

WARNING: Follow these steps to help the rider learn to do a "wheelie."

1. Read and follow the warnings for "WHEELIES" on page 10.
2. Stand at the rear of the chair. You must be able to move with the chair to prevent a tipover.
3. Keep your hands BENEATH the push handles, ready to catch the rider if the chair tips back.
4. When you are ready, have the rider place his or her hands on the forward part of the hand rims.
5. Have the rider make a quick backward movement of the rear wheels, quickly followed by a hard forward thrust. This will tilt the chair up on the balance point of the rear wheels.

6. Have the rider make small movements of the hand rims to stay in balance.

Failure to heed these warnings could result in damage to the chair, a fall, a tip-over and/or loss of control, causing severe injury to the rider, yourself or others.

Descending A Curb Or Single Step

WARNING: Follow these steps to help a rider descend a curb or single step going *backward*:

1. Stay at the rear of the chair.
2. Several feet before you reach the edge of the curb or step, turn the chair around and pull it backward.
3. While looking over your shoulder, carefully step back until you are off the curb or stair and standing on the lower level.
4. Pull the chair toward you until the rear wheels reach the edge of the curb or step. Then allow the rear wheels to slowly roll down onto the lower level.
5. When the rear wheels are safely on the lower level, tilt the chair back to its balance point. This will lift the front casters off the curb or step.
6. Keep the chair in balance and take small steps backward. Turn the chair around and gently lower front casters to the ground.

Failure to heed these warnings could result in damage to the chair, a fall, a tip-over and/or loss of control, causing severe injury to the rider, yourself or others.

Climbing a Curb or Single Step

WARNING: Follow these steps to help the rider climb a curb or single step going *forward*.

1. Stay behind the chair.
2. Face the curb and tilt the chair up on the rear wheels so that the front casters clear the curb or step.
3. Move forward, placing the front casters on the upper level as soon as you are sure they are past the edge.
4. Continue forward until the rear wheels contact the face of the curb or step. Lift and roll the rear wheels to the upper level.

Failure to heed these warnings could result in damage to the chair, a fall, a tip-over and/or loss of control, causing severe injury to the rider, yourself or others.

Climbing Stairs

WARNING:

1. Use at least two attendants to move a chair and rider up stairs.
2. Move the chair and rider BACKWARDS up the stairs.
3. The person at the rear is in control. S/he tilts the chair back to its balance points.
4. A second attendant at the front firmly grasps a non-detachable part of the front frame and lifts the chair up and over one stair at a time.
5. The attendants move to the next stair up. Repeat for each stair, until you reach the landing.

Failure to heed these warnings could result in damage to the chair, a fall, a tip-over and/or loss of control, causing severe injury to the rider, you or others.

Descending Stairs

WARNING:

1. Use at least two attendants to move a chair and rider down stairs.
2. Move the chair and rider *forward* down the stairs.
3. The person at the rear is in control. S/he tilts the chair to the balance point of the rear wheels and rolls it to the edge of the top step.
4. A second attendant stands on the third step from the top and grasps the chair frame. S/he lowers the chair one step at a time by letting the rear wheels roll over the stair edge.
5. The attendants move to the next stair down. Repeat for each stair until reaching the landing.

Failure to heed these warnings could result in damage to the chair, a fall, a tip-over and/or loss of control, causing severe injury to the rider, yourself or others.

Maintenance

WARNING:

1. If you detect a problem, contact Icon by phone or email immediately. Your warrantee will cover most problems.

Failure to heed these warnings could result in damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control, causing severe injury to yourself or others.

Warnings: Components and Options

Armrests

WARNING: Armrests detach and will not bear the weight of this chair.

1. Never lift this chair by its armrests. They may come loose or break and the chair will fall.
2. Lift this chair only by the non-detachable parts of the main frame.

Failure to heed these warnings could result in damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control, causing severe injury to yourself or others.

Fasteners

WARNING: USE ONLY THE FASTENERS SUPPLIED WITH THIS CHAIR.

1. If a bolt becomes loose, the associated nut may be defective. You must replace the nylon insert nut before tightening the bolt.

Failure to heed these warnings could result in damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control, causing severe injury to yourself or others.

Footrests

WARNING:

1. At the lowest point, footrests should be AT LEAST 2 ½ inches (64mm) off the ground. If set too low, they may catch on obstacles during normal use. This may cause the chair to stop suddenly and tip forward.
2. The footrests must be interlocked when the chair is in use.

3. To avoid a trip or fall when you transfer
 - a. Make sure your feet do not "Hang up" or get caught in the space between the footrests.
 - b. Avoid putting weight on the footrests. If you do, the chair may tip forward.

Failure to heed these warnings could result in damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control, causing severe injury to yourself or others.

Positioning Belts

WARNING: Use positioning belts only to help support the rider's posture. Improper use of these belts may cause severe injury to the rider.

1. Make sure the rider does not slide down in the wheelchair seat. If this occurs, the rider may suffer chest compression or suffocation due to pressure from the belts.
2. The belts must be snug, but must not be so tight that they interfere with breathing. You should be able to slide your open hand, flat, between the belt and the rider.
3. A pelvic wedge or a similar device can help keep the rider from sliding down in the seat. Consult with the rider's doctor, nurse or therapist to find out if the rider needs such a device.
4. Use positioning belts only with a rider who can cooperate. Make sure the rider can easily remove the belts in an emergency.
5. NEVER USE POSITIONING BELTS:
 - a. as a patient restraint without a doctor's order.
 - b. on a rider who is comatose or agitated.
 - c. as a motor vehicle restraint. In an accident or sudden stop the rider may be thrown from the chair. Wheelchair seat belts will not prevent this, and further injury may result from the belts or straps.

Failure to heed these warnings could result in damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control, causing severe injury to yourself or others.

Power Drive

WARNING: Do not install a power drive on the Icon wheelchair. Doing so will:

1. Affect the centre of balance of your chair and may cause a fall or tip-over.
2. Alter the frame.
3. Void the warranty.

Failure to heed these warnings could result in damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control, causing severe injury to yourself or others.

Rear Wheels

WARNING: A change in set-up of the rear wheels will affect the centre of balance of your chair.

1. The farther you move the rear axles forward, the more likely it is that your chair will tip over backward.
2. Consult with your doctor, nurse or therapist to find the best rear axle set-up for your chair. Do not change the set-up unless you are SURE that you are not at risk to tip over.
3. Adjust the rear wheel locks/brakes after you make any change to the rear axles. Make sure the lock arms embed the tires at least ¼ inch(6mm) when locked. Failure to do so may cause the locks not to work.

Failure to heed these warnings could result in damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control, causing severe injury to yourself or others.

Rear Wheel Locks

WARNING: Rear wheel locks are NOT designed to slow or stop a moving wheelchair. Use them only to keep the rear wheels from rolling when your chair is at a complete stop.

1. NEVER use the rear wheel locks to try to slow or stop your chair when it is moving. Doing so may cause you to veer out of control.
2. To keep the rear wheels from rolling, always set both rear wheel locks when you transfer to or from your chair.
3. Low pressure in a rear tire may cause the wheel lock on that side to slip and may allow the wheel to turn when you do not expect it.

4. Make sure the lock arms embed in the tires at least ¼ inch (6mm) when locked. If you fail to do so, the locks may not work.

Failure to heed these warnings could result in damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control, causing severe injury to yourself or others.

ASSEMBLY AND MAINTENANCE

Assembly

NOTE: Your Icon wheelchair comes in a sturdy box packed with the footrest assembly and the seat system separate from the chair's central frame.

To adjust your chair you will need a 5 mm hex key, a 4 mm hex key and a 1" socket wrench. You may also want a level for making adjustments to the caster pod height.

Base Chair Components

Seat Height

Using the 4 mm hex key, loosen the set screws on both locking collar rings, located on the seat post on either side of the Icon's A1 frame. Raise or lower the seat to the desired height. Re-tighten the set screws so that they tighten on the threads of the set post, rather than the flats. To help loosen or tighten the collar rings, the hex key can be inserted into one of the three keyholes on each collar ring for extra leverage.

Seat Angle

Using the 1" socket wrench, turn the knob at the bottom of the seat tube. This will raise or lower the back of the seat while the front of the seat remains static.

Specific Front and Rear Seat Heights measurements can be made through a combination of adjustments to the Seat Height and Seat Angle.

Footprint (width)

Loosen the axle clamps using the 5 mm hex key and adjust the telescoping axle the desired width. Re-tighten the axle clamps.

To adjust Wheel Spacing, combine adjustments to the Footprint with adjustments to the Seat Width.

Wheelbase (length)

With either the 5 mm hex key or the optional quick release, loosen the two frontend clamps which,. Adjust the telescoping front end to the desired length. Re-tighten the frontend clamps.

Back Angle

Rotate the angle-adjusting turnbuckle, which connects the wheelchair's back to the seat.

Footrest Height

With the 5 mm hex key, loosen the two bolts located at the back of the caster wing. Raise or lower the telescoping footrest to the desired height. Re-tighten the bolts.

Back Height

Remove the bolts at the top of the back rest tubes. Extend the telescopic backrest posts to the desired height. Reinsert and tighten the back rest tube bolts.

Caster Pod Adjustment

To ensure the caster wheels are properly aligned and roll without "fluttering" or "diving", the fork stem bolts need to be perpendicular to the ground. The fork stem bolts will be perpendicular to the ground when the frame of the chair is level (parallel to the ground) or when the frontwing downtubes are perpendicular to the ground. The caster pods can be raised or lowered on the frontwing downtube to adjust the angle of the frame and frontwing.

To adjust the position of the caster pods, use the 5 mm hex key and loosen the caster pod bolts, which hold the caster pod in place on the caster wing. Using the optional level, raise or lower the caster pod until the Icon's frame is level (parallel to the ground). When the frame is level, the caster pods will be perpendicular to the ground and will roll without fluttering or diving. Re-tighten the bolts.

When loosened, the castor pods can also be adjusted on a horizontal axis. Remember to re-tighten the bolts.

Center of Gravity

On the underside of the seat, use the 5 mm hex key to loosen the four bolts which connect the seat bracket to the seat rails. Slide the seat forward or backward, to the desired position. Re-tighten the seat bracket bolts.

Seat Width

If you are using a tension adjustable back, loosen the straps. If you are using a hard back, remove the back completely.

Using the 4 mm hex key, loosen the eight bolts on the upper side of the seat that fix the side supports to the seat. Next, using the 5 mm hex key loosen the clamps at bottom of the telescoping back frame. Adjust the side supports and telescoping back frame to the desired width. Re-tighten the side support and back frame clamps. Re-attach the hard back or re-tighten the tension adjustable back.

Camber

Using the 5 mm hex key, remove the retaining bolts from the rear of each of the camber adjustment assemblies. Replace the bolts in desired camber-setting hole. Re-tighten the retaining bolts.

Attaching and Adjusting Accessories

Push Handles

Attach a split clamp to each vertical backrest tube and push handle. Gently tighten the clamps using the 5 mm hex key. Note that the half of the split clamp with the larger diameter should attach to the backrest tube. Adjust push handles to desired height. Fully tighten the clamps.

Transfer Handles

Attach a split clamp to each frontwing downtube and transfer handle. Gently tighten the clamps using the 5 mm hex key. Note that the half of the split clamp with the larger diameter should attach to the frontwing downtube. Adjust transfer handles to desired position. Fully tighten the clamps.

Brakes (Scissor or Push-to-Lock)

Adjustment: Using the 5 mm hex key, loosen split clamps which attach the brakes to the seat. Adjust brakes to the desired position. Re-tighten the clamps

Push Bar

Remove your solid or tension adjustable back. Slide the push bar arms over the backrest tubes to the desired height. If applicable, insure the push bar position will not interfere with the adjustment straps. Using the 5 mm hex key, tighten the push bar bolts. Re-install your back.

MAINTENANCE

CAUTION: You can expect your Icon chair to give years of trouble free performance if used properly. However a regular schedule of maintenance will make certain that your chair is ready when you are ready for it.

- A. Clean your chair regularly. You can use any household cleaners; you can use spray clean your chair with hot water or steam. Allow the chair to dry for 3-6 hours after washing.
- B. Do not use harsh abrasives or solvents on your chair and remove fabric components such as cushions and straps before cleaning.
- C. Repair or replace worn components immediately before you use the chair.
- D. Icon is available to provide maintenance services if you need major repair to your Icon chair.

WARNING: Inspect and maintain your Icon chair as indicated below. Your safety depends on it. Repair any problems before use.

- A. **If you have pneumatic tires, check and refill weekly.** Wheelchair tires do not retain air as well as automotive tires because of their high surface area/air content ratio.
- B. **Check your wheel locks weekly.** As tires wear, the locks must be adjusted.
- C. **Check all fasteners every six months for tightness.**
- D. **Check the fit and condition of the removable armrests every six months.**
- E. **Check your axles, axle sleeves, wheels, tires and spokes, casters and frame every six months.**

Cleaning

Main Frame and Footrest

1. Wipe down your wheelchair with a clean, damp rag
2. When the wheelchair is thoroughly clean, apply car wax to the frame. This will protect the finish and make future cleanings easier.
3. It is suggested that cleaning be conducted on a monthly basis. However, depending on type and extent of use, the wheelchair may have to be cleaned more often.

Axles and Moving Parts

1. Keep quick/quad release axles free of dirt and lint to ensure proper operations.
2. Clean quick-release axles and camber inserts once per week with a Teflon® lubricant.

Backrest Upholstery

1. Clean backrest fabric with mild soap and water. Do not machine wash. Drip dry only.

ICON MANUAL WHEELCHAIR WARRANTY

A. LIFETIME WARRANTY

Icon warrants the chair body, including all moulded body parts made by the Company and the connecting hinges, against defects in material and workmanship for the life of the original purchaser.

B. LIMITATIONS

1. Icon does not warrant tires and tubes, upholstery and armrests and accessories or any other aftermarket part.
2. Icon does not warrant against any damage from neglect, misuse or damage incidental to any automobile or conveyance incident or accident.
3. Icon does not warrant against any damage resulting from exceeding the weight limit of 265 pounds (120 kg.).
4. Icon does not warrant an Icon chair from which the original serial number tag has been removed.