



MERLEXI CRAFT

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Turbo Wheelchair Company

10408 Bluegrass Pkwy., Louisville, KY 40299

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Merlexi Craft™ Wheelchair

User Instruction Information and Service Manual & Warranty Turbo Wheelchair Company



Liberty I™ with fixed, multi-position rear mag wheel manual wheelchair footrests and flexible slat panel back. (Removable footrests and air-supported back, optional.)

Liberty II™ I Quick release spoke rear wheel manual wheelchair with removable footrests. (Air-supported back optional.)

Merlexi Craft MRI

Fixed, multi-position rear mag wheel manual wheelchair footrests and flexible slat panel back. Approved as MRI Conditional at 3 Tesla from Dr. Frank Sherlock – Magnetic Resonance Safety Testing Services

Merlexi Craft Tamper Proof

Fixed, multi-position rear mag wheel manual wheelchair footrests. Plastic mesh back. Nylon connecting rods; safety bolts; all parts secured with Loc-Tite; no parts are removable.

I. INTRODUCTION

WE CARE

We care about our customers. We are pleased that you have picked a Merlexi Craft™ Wheelchair. Thank you. We want you to be pleased, proud, and safe. Please contact us if you have questions or comments about the safety or reliability of your chair and/or about this manual.

Please feel free to write or call us at the address and telephone number listed below:

Turbo Wheelchair Company, Inc.

10408 Bluegrass Parkway

Louisville, KY 40299

(800)959-4765 (502)614-8032

www.merlexi.com

support@merlexi.com

Please update your address if you should move.

For future reference fill in the following:

Serial # _____

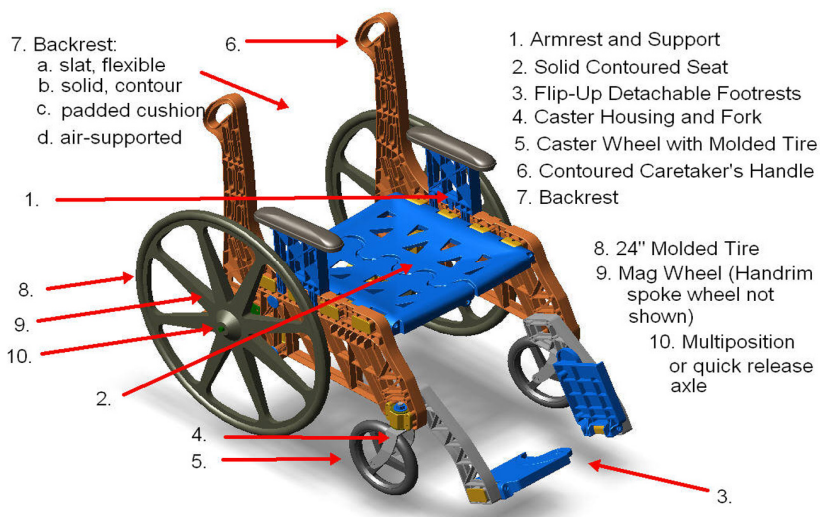
Date Purchased: _____

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III. YOUR MERLEXI CRAFT™ CHAIR AND ITS PARTS

A. SCHEMATIC DRAWING

The illustration below shows a drawing of the Merlexi Craft™ chair and indicates the major components. Detailed information about the chair and its components is accumulated in the following sections. Please refer to the specifications of the Liberty I™ and Liberty II™ Merlexi Craft™ below and in Section IX B.



B. SPECIFICATIONS

Specific Liberty I™ specifications include:

Liberty I™	High Strength, Lightweight, K0004
Weight	33# Reinforced polypropylene body
Folded Width	13.5"
Seat	FormFold™ 16"-18" Solid, contoured
Seat Length	17-18"
Seat Back	Flexible slat, air supported optional
Rear Wheel	24" mag, 5/8" bearing solid urethane tires, fore-aft and up-down adjustable
Caster Size/	8 inch and 5 inch, solid urethane
Footrests	Flip-up, interlocking, bolt release
Armrests	Full support, removable and fore-aft adjustable

Specific Liberty II™ specifications include:

Liberty II™	High Strength, Ultra lightweight, K0005
Weight	30# Reinforced polypropylene body
Weight of Body	19# With rear wheels removed, armrests, front rigging
Folded Width	13"
Seat	FormFold™ 16"-18" Solid, contoured
Seat Length	17-18"
Seat Back	Flexible slat, air supported optional
Rear Wheel	Quick-release, 24" spoke, 1/2" bearing, solid urethane tires
Caster Size	8 inch and 5 inch, solid urethane
Footrests	Quick-release, flip-up, interlocking, quick release optional
Armrests	Full support, removable and fore-aft adjustable

C. TESTING INFORMATION

The Merlexi Craft™ chair has been tested to the ANSI/RESNA WC Standards (ISO 7176), January

1998, Part 8, WC-01, WC-03, WC-05, WC-07, WC-08, WC-15. These tests were carried out with a 100 kg. (220 pound) test dummy. Details of the testing results are available at <http://merlexi.com/iso7176>. The Merlexi Craft™ chair passed six consecutive cycles of the WC-08 double-drum and curb-drop fatigue tests.

IV. READ BEFORE ASSEMBLY OR USE

A. CHOOSE THE CORRECT CHAIR AND SAFETY OPTIONS

The selection of your wheelchair, its options, and its adjustments rests solely with you and your health care advisor. Choosing the best chair and set-up for your comfort and safety depends on such things as:

1. Your disability, strength, balance and coordination.
2. The types of hazards you must overcome in daily use (e.g., where you live and work and other places you are likely to use your chair).
3. The need for options for your comfort and safety (such as anti-tip bars, positioning belts, or special seating systems).

B. READ THIS MANUAL OFTEN

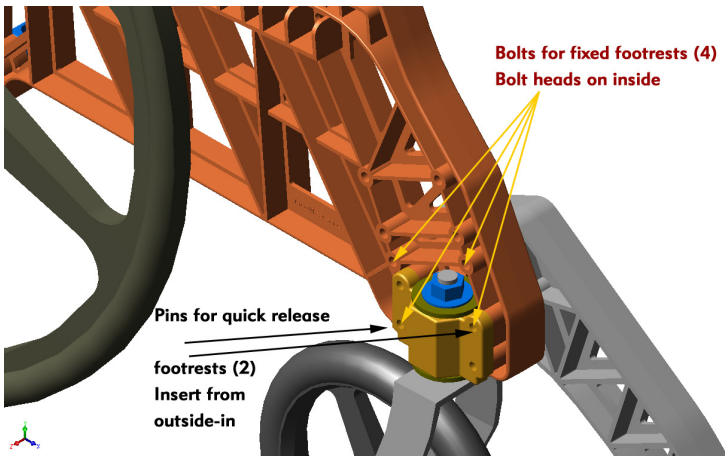
Before using this chair you and every individual who may assist you, should read this entire manual and make sure to follow all instructions. Review the warnings often, until they become second nature to you.

V. ASSEMBLY

Your Merlexi Craft™ manual wheelchair comes in a sturdy box packed with the footrest assembly and the back system separate from the chair body.

A. TO ATTACH FOOTRESTS

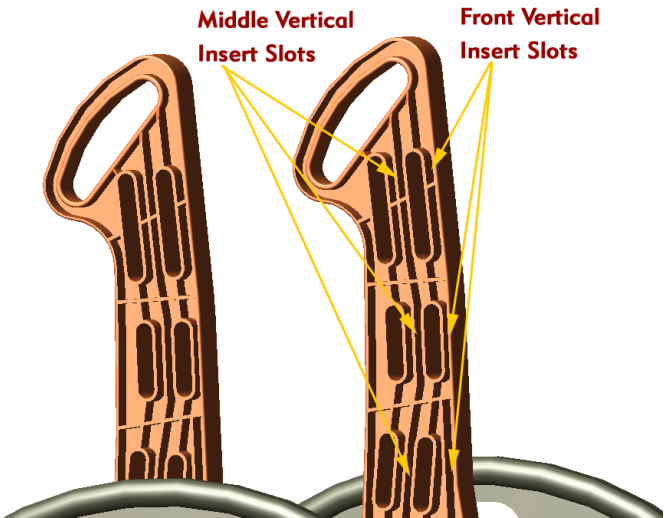
1. Please note that the cover plate over the casters on each side of the chair has two open boltholes.
2. If you are assembling the fixed footrests of the Liberty I™ chair, line the footrest subassembly as shown in the diagram below and insert the four bolts through washers and through the footrest support and chair frame with the bolt head on the inside. Add a washer and tighten on the lock nuts provided. Repeat on the other side of the chair. Check for that the footrests are at the same distance from the floor and that they lock properly by lowering the footrests simultaneously and interlocking them.



3. If you are assembling the quick release footrests, insert the quick release pins in the indicated holes from the outside of the chair and make certain they “click” into place and the button on the pin pops out. To remove the footrests, press the button on the pin, withdraw the pin and repeat for each pin. Insert the pin into the footrest support for safekeeping.

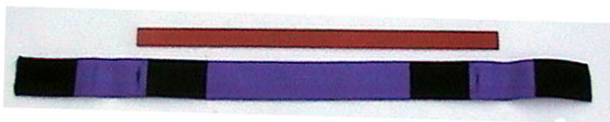
B. TO ATTACH FLEXIBLE SLAT BACK

1. The flexible slat back is designed to support your back with a firm, dynamic action. To operate properly it must be installed properly each time the chair is opened
2. To work properly, the slats must be inserted at each end into the vertical insert slots along the front or middle of the Merlexi Craft™ chair side

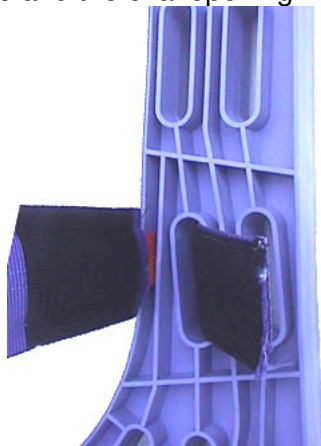


The slats are delivered nested in and protruding from the blue, tubular web.

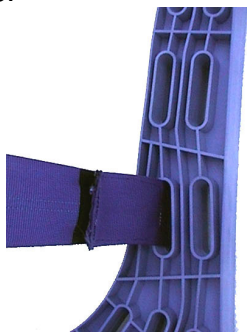




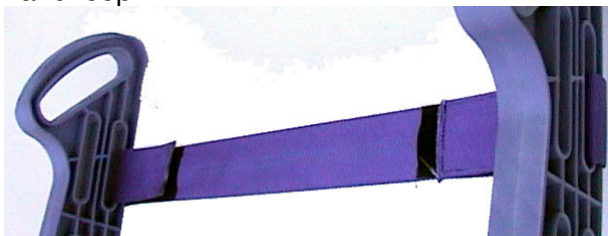
3. Each strap has hook and loop pads that will be installed facing to the back.
4. Begin installation of the strap by sliding the end of the reinforcing batten into the slot between the front face of the side and the oval opening.



5. Bring the end of the web around the front edge of the side and through the oval. Attach hook and loop with finger pressure.



6. Repeat steps (4) and (5) for the other side of the strap. You may need to push the sides apart slightly to insert the batten into the slot on the second side. Tighten by pulling the web through the oval and mating hook and loop.



7. Begin installation of batten straps from the bottom of the chair.



8. You will want to adjust each strap to the front or middle position depending on your needs and comfort.

9. To fold the Merlexi Craft™ chair after the back is installed, pull open the straps on one side of the chair and bend the side away so the batten slides from the slot on the open side. Pull the strap through the opening and fold over the batten. Pull the strap toward the open side so that the batten slides from the closed side. Fold the battens forward and slide them between the side and seat as the chair is folded.

C. WARNINGS

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 four main sections, as follows:

VI – GENERAL WARNINGS

Here you will find safety checklist and summary of risks you and those individuals who assist you need to be aware of before you ride this wheelchair.

A. WEIGHT LIMIT



WARNING

NEVER exceed the weight limit of 250 pounds (113.6 kilograms) 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.

B. WEIGHT TRAINING



WARNING

NEVER use this chair for weight training if total weight (rider plus equipment) exceeds 250 pounds (113.6 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.

C. PINCH POINTS



WARNING

NEVER place fingers, body parts or objects within the center of the seat of the chair while folded. NEVER place fingers, body parts or objects within the center of the chair while taking the seat from a folded to a flat position.

D. INTEGRAL COMPONENTS OF YOUR CHAIR



WARNING

The footrests are an integral component of your chair and are to be fully engaged when the chair is in use.

E. GETTING TO KNOW YOUR CHAIR



WARNING

Every wheelchair is different. Take the time to learn the feel of this chair before you begin riding. Start slowly, with easy, smooth strokes. If you are accustomed to a different chair, you may use too much force and tip over and/or lose control which may cause severe injury to yourself or others.

F. 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 maneuver 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 chair. Look for hazards and learn how to avoid them.
6. Use anti-tip tubes unless you are a skilled rider of the chair and are sure you are not at risk to tip over.

7. Never place fingers or objects within the center of the seat. The seat must fold flat and any obstructions may cause injury or damage. If you fail to heed these warnings, damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control may occur and may cause severe injury to yourself or others.

G. SAFETY CHECKLIST



WARNING

Before Each Use Of Your Chair:

1. Make sure the chair rolls easily and that all parts work smoothly. Check for noise, vibration, or a change in 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 chair 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 chair has anti-tip tubes, lock them in place.

5. Before using the chair, make sure the solid seat is fully engaged. When fully engaged the seat is completely flat and totally unfolded.

6. Before riding in the chair, make sure the footrests are installed and locked together. If you fail to heed these warnings, damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control may occur and may cause severe injury to yourself or others.

H. CHANGES AND ADJUSTMENTS



WARNING

1. If you modify or adjust this chair, it may increase the risk of damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control and may cause injury to yourself or and/or others.

2. We recommend 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 loss of control of the chair.

3. Unauthorized modifications or use of parts not supplied or approved by Turbo Wheelchair Company, Inc. will change the chair structure. This will void any and all warranties associated with the chair.

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

I. ENVIRONMENTAL CONDITIONS



WARNING

1. Use extra care if you must ride your chair on a wet or slick surface. If you are in doubt, ask for help or avoid the surface. If you fail to heed these warnings, damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control may occur and may cause severe injury to yourself or others

J. TERRAIN



WARNING

1. Your chair is designed for use on firm, even surfaces such as concrete, asphalt and indoor floors and carpeting.

2. Do not operate your chair in sand, loose soil or over rough terrain.

This may damage wheels, axles or fasteners of your chair.

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

K. STREET USE



WARNING

In most states it is illegal to use wheelchairs on public roads. Be alert to the danger of motor vehicles on roads or in parking lots.

1. At night, or when lighting is poor, use reflective tape on your chair and clothing.

2. Due to your low position, it may be hard for drivers to see you. Make eye contact with drivers before you go forward. When in doubt, yield until you are sure it is safe.

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

L. MOTOR VEHICLE SAFETY



WARNING

Merlexi Craft™ wheelchairs do not meet federal standards for motor vehicle seating.

1. NEVER let anyone sit in this chair while in a moving vehicle.

a. ALWAYS move the rider to an approved vehicle seat.

b. ALWAYS secure the rider with proper motor vehicle restraints.

2. 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.

3. NEVER transport this chair in the front seat of a vehicle. It may shift and interfere with the driver.

4. ALWAYS secure this chair so that it cannot roll or shift.

5. Do not use any chair that has been involved in a motor accident.

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

M. WHEN YOU NEED HELP



WARNING

FOR THE RIDER:

Make sure that each person who helps you reads and follows all warnings and instructions that apply.

FOR THE ATTENDANT:

1. Work with the rider's doctor, nurse, or therapist 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 to your back, use good posture and proper body mechanics. When you lift or support the rider or tilt the chair, 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 backward.

5. When you descend a curb or single step, slowly lower the chair in one easy movement. Do not let the chair drop the last few inches to the ground. This may damage the chair 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 chair.

If you fail to heed these warnings, damage to your chair, injury to yourself, a fall, a tip-over and/or loss of control may occur and may cause severe injury to the rider and/or yourself.

VII. WARNINGS: FALLS & TIP-OVERS

A. CENTER OF BALANCE



WARNING

The point where this chair will tip forward, back or to the side depends on its center 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 position of the rear wheels. The more you move the rear wheels forward, the more likely your chair will tip over backward.

2. The Center 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 you chair 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 doctor, nurse or therapist to find out what axle and caster position is best for you.

b. Call or email Turbo Wheelchair Company BEFORE you modify or adjust this chair 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 center of balance.

c. Have someone help 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.

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

B. 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 casters until they are as far forward as possible. This makes the chair more stable.

2. If you have anti-tip tubes, lock them in place.

If your chair does not have anti-tip tubes then back your chair up against a wall and lock both rear wheels.

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

C. WHEELIES



WARNING

Doing a "wheelie" means balancing on the rear wheels of your chair while the front casters are in the air. It is dangerous to do a "wheelie" as a fall or tip-over may

occur. However, if you do it safely, a "wheelie" can help you overcome curbs and obstacles.

1. Consult your doctor, nurse or therapist to find out if you are a good candidate to learn to do "wheelies" using this chair.

2. Do not attempt a "wheelie" UNLESS you are a skilled rider of this chair or you have help.

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

D. 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 Center 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.

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

E. REACHING OR LEANING



WARNING

If you reach or lean, it will affect the center 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 back rest 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.

F. 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.
- If you fail to heed these warnings, you may tip over and/or fall and cause severe injury to you or others.

G. RAMPS, SLOPES AND SIDE HILLS



WARNING

Riding on a slope, which includes a ramp or side hill, will change the center 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 center 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:
- Lean or press your body UPHILL. This will help adjust for the change in the center of balance caused by the slope or side hill.
 - Keep pressure on the hand rims to control your speed on the down slope. IF YOU GO TOO FAST YOU MAY LOSE CONTROL.
 - 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:
- Width** should be at least 4 feet wide
 - Install **guardrails** to reduce the risk of a fall. Alternately, raise the **borders** at least 3 inches.
 - Slope** not more than 10% grade.
 - Surface** should be flat and even, with a thin carpet or non-skid material. Make sure there are no lips, bumps or depressions.
 - Brace** your ramp if there is any chance that it isn't sturdy or will bow.
 - Avoid a drop off.** Use a section at the top and bottom to smooth out any transition.

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

H. 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.

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

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

J. 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.
2. Persons who help you should read and follow the warnings "FOR ATTENDANTS" on page xx and the "FOR PROPER USE" section on page xx. If you fail to heed these warnings, damage to your chair, injury to yourself, a fall, a tip-over, and/or loss of control may occur and may cause severe injury to yourself or others.

K. 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.

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

VIII WARNINGS: FOR PROPER USE



WARNING

Before you assist a rider, be sure to read the warnings "FOR ATTENDANTS" page 16" 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.

A. 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 18.
2. Stand at the rear of the chair. You must be able to move with the chair to prevent a tip-over.
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.

If you fail to heed these warnings, damage to the chair, injury to yourself or the rider, a fall, a tip-over, and/or loss of control may occur and may cause severe injury to yourself or others.

B. 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.

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

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

D. 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.

If you fail to heed these warnings, damage to the chair, injury to yourself or others, a fall, a tip-over, and/or loss

of control may occur and may cause severe injury to yourself or others.

E. 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.

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

F. UNFOLDING THE CHAIR



WARNING

1. Grasp handles and spread handles apart until the chair starts to open.
2. Place the palm of your flat open hand on the middle of either or both seat SECTIONS. Press down firmly until the center of the seat is interlocked, flat and secure.
3. DO NOT place fingers or objects into the center interlocking section.

DO NOT place fingers between the seat side and the frame when you fold this chair.

This may cause a pinch or crush-type injury.

4. Install or inflate the backrest as per instructions.
5. Interlock the footrests
6. Replace cushion (if any)
7. DO NOT sit in the seat until it is fully engaged.

If you fail to heed these warnings, damage to the chair, injury to yourself or the rider, a fall, a tip- over and/or loss of control may occur and may cause severe injury to yourself or others

G. FOLDING THE CHAIR



WARNING

1. Flip up foot rests.
2. Remove cushion (if any).
3. Remove or deflate seat back according to directions.
4. Grasp the back center of the left seat section with your left hand.

Grasp the right front center seat section with your right hand.

Lift sharply to disengage seat and fold chair.

5. DO NOT place fingers or objects into the center interlocking section.

DO NOT place fingers between the seat side and the frame when you fold this chair.

This may cause a pinch or crush-type injury.

6. Grasp push handles to further fold chair tightly together.

If you fail to heed these warnings, damage to your chair, injury to yourself or the rider, a fall, a tip- over

and/or loss of control may occur and may cause severe injury to yourself or others

H. MAINTENANCE



WARNING

1. Inspect and maintain this chair strictly per the schedule in Section XII.
2. If you detect a problem, contact Turbo Wheelchair Company by phone or email immediately. Your warrantee will cover most problems.

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

IX WARNINGS: COMPONENTS AND OPTIONS

A. 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.

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

C. CUSHIONS AND MOLDED SEAT



WARNING

1. Merlexi Craft™ molded seat and cushions are not designed for the relief of pressure.
2. If you suffer from pressure sores, or if you are at risk that they will occur, you may need a special seating system or a device to control your posture. Consult your doctor, nurse, or therapist to find out if you need such a device for your well-being.

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

D. 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.

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

E. 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 "hang up" 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.

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

F. PNEUMATIC TIRES (OPTIONAL)



WARNING

Proper inflation extends the life of your tires and makes your chair easier to use.

1. Do not use this chair if any of the tires is under or over inflated. Check weekly for proper inflation level, as listed on the tire sidewall.

2. Low pressure in a rear tire may cause the wheel lock on that side to slip and allow the wheel to turn when you do not expect it.

3. Low pressure in any of the tires may cause the chair to veer to one side and result in a loss of control.

4. Over-inflated tires may burst.

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

G. 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.

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

H. POWER DRIVE



WARNING

Do not install a power drive on any Merlexi Craft™ Series wheelchair.

Doing so will:

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

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

J. QUICK-RELEASE AXLES (OPTIONAL)



WARNING

1. **MAKE SURE** that both quick-release rear axles are locked before you use this chair.
2. An axle is not locked until the quick-release button pops out fully.
3. An unlocked axle may come off during use, resulting in a fall, tip-over and/or loss of control and cause severe injury to the rider or others.

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

K. REAR WHEELS



WARNING

A change in set-up of the rear wheels will affect the center 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 $\frac{1}{4}$ inch(6mm) when locked. Failure to do so may cause the locks not to work.

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

L. 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 $\frac{1}{4}$ inch (6mm) when locked. If you fail to do so, the locks may not work.

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

M. WEBBING OR OTHER FABRIC PARTS



WARNING

1. Replace worn or torn webbing or other fabric parts if you fail to do so, the back may fail.
2. Be aware that laundering or excess moisture will reduce flame retardation of the fabric.

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

X UNFOLDING AND FOLDING, SET UP AND ADJUSTMENT



WARNING

A. UNFOLDING AND FOLDING YOUR CHAIR

1. Your chair will be folded in its shipping box. Lift or roll the chair from the box. For Liberty II™ chairs,

assemble the rear wheels to the frame using the quick release pin

2. Grasp the sides of the chair and slide or pull the sides apart. Push down on the FormFold™ seat after the sides have been pulled apart to make certain full width has been achieved. Do not place hands or fingers in the openings at the seat hinge.
3. After installing footrests, fold footrests down simultaneously so that the two halves interlock.
4. Reverse this process to fold your chair.
5. If any of these operations are difficult or impossible, consult your caretaker or healthcare professional to develop an unfolding/folding plan that most meets your needs.

C. HINGE PINS AND FASTENERS

1. Do not remove the hinge pins that hold the Merlexi Craft™ seat, sides and under-seat support in place.
2. Screws, bolts and washers on this chair are stainless steel. All nuts are stainless steel and have nylon inserts to prevent loosening.
3. If you must replace nuts or bolts, use only equivalent stainless steel screws, bolts, washers and nylon insert nuts.
4. Always replace loosened nuts with new nuts with nylon inserts.
5. Torque all nuts and bolts on the caster plate and footrest to 25ft-pounds.
6. Torque axle hub nuts to 25 ft-pounds.
7. Tighten axle bolts to the extent that the caster fork closes to the spacers but the wheel rolls freely.
8. Tighten caster fork stem bolt so that vertical play is absent but the caster fork rotates freely in the housing.

D. ADJUSTMENTS TO THE MERLEXI CRAFT™ CHAIR

1. The Merlexi Craft™ chair is available in two models; the fixed mag rear wheel, fixed front rigging Liberty I™ and the Quick Release rear wheel and front rigging Liberty II™.
2. The Liberty I™ chair has a patent pending, four-position rear axle hub requiring a mag wheel with 5/8" bearing
3. Quick release front rigging is optional on the Liberty I™ chair.
4. The inflatable cushion back is optional on the Liberty I™ Merlexi Craft™ and Liberty II™ Merlexi Craft™ chair.
5. Table 1 gives the specifications of the Liberty I™ set up alternatives.
6. Table 2 gives the specifications of the Liberty II™ set up alternatives.

Table 1	Liberty I™	
Weight without footrests	33#	
Seat width	16"-18"	
Seat Length	17-18"	
Rear Wheel	24" mag, 5/8" bearing	Solid Urethane Tires
Seat Height		
Axle Position in Rear Hub		Seat Rear Height
Top		15 1/2"
Bottom		17"
Seat Front Height		
Front Caster Wheel Size/Axle Position in Fork		Seat Front Height

8" Caster -	Top Hole	18"
	Middle Hole	19"
	Lower Hole	20"
5" Caster	Top Hole	Do Not Use
	Middle Hole	17 ½"
	Bottom Hole	18 ½"
Seat Angle to Vertical		
Caster Size and Fork Position	Rear Axle Position	Angle
8"Caster-Bottom	Top	15 degrees
8" Caster - Bottom	Bottom	10 degrees
8" Caster - Middle	Top	11 degrees
8" Caster - Middle	Bottom	6 degrees
8" Caster - Top	Top	8 degrees
8" Caster - Top	Bottom	3 degrees
5" Caster - Bottom	Top	10 degrees
5" Caster - Bottom	Bottom	5 degrees
5" Caster - Middle	Top	6 degrees
5" Caster - Middle	Bottom	2 degrees
Footrest Length		
		Seat to Footrest
Bolts - Footrest Support	All Four	
Bolt Locations - Side	Top	15"
	Bottom	17"
Seat Back Height		
All Configurations		16"
Armrest Height and Location		
Height		8"
Front Placement		Extends 15" from Rear
Rear Placement		Extends 11" from rear 11"

Table 2	Liberty II™	
Weight without footrests	30-31#	
Weight of Body Without Wheels	20-21#	
Seat width	16"-18"	
Seat Length	17-18"	
Rear Wheel	24" spoke, 1/2" bearing	Solid Urethane Tires
Seat Height		
Axle Position in Rear Hub		Seat Rear Height
Single Position Quick release		16 ¼"
Front Caster Wheel Size/Axle Position in Fork		Seat Front Height
8" Caster -	Top Hole	18"
	Middle Hole	19"
	Lower Hole	20"
5" Caster	Top Hole	Do Not Use
	Middle Hole	17 ½"
	Bottom Hole	18 ½"
Seat Angle to Vertical		
Caster Size and Fork Position	Rear Axle Position	Angle
8"Caster-Bottom	Single Position	12 degrees
8" Caster - Middle	Single Position	9 degrees
8" Caster - Top	Single Position	5 degrees
5" Caster - Bottom	Single Position	7 degrees
5" Caster - Middle	Single Position	4 degrees

Footrest Length		Seat to Footrest
Quick Release Bolt Locations –Side (2)	Quick Release Bolt Location – Footrest Support (2)	
Top	Top	15
Top	Bottom	13 ½”
Bottom (Not for 5” casters)	Top	19”
Bottom	Bottom	17”
Seat Back Height		
All Configurations		16”
Armrest Height and Location		
Height		8”
Front Placement		Extends 15” from Rear
Rear Placement		Extends 11” from rear11”

E. REAR AXLE CONFIGURATION OF THE LIBERTY I™ MERLEXI CRAFT™ CHAIR

Required Components and Special Tools: 6 nylon insert nuts, 3/8” x 16 thread, 1/4” rod, 5” long, open end wrench, torque wrench, hammer.

1. The rear axle hub of the Liberty I™ chair can be adjusted to change the center of mass and the rear seat height of the Merlexi Craft™. See Table 1 for the specifications of the chair in each position.
2. With the axle hub in the top or bottom, forward position, the Merlexi Craft™ is easier to maneuver for an experienced user with wheelchair experience. The forward position makes “wheelies” more achievable for the user. Correspondingly, the forward position can

lead to instability and allow backward tipping in out-of-control situations. Only riders who are experienced and are capable of dealing with the added risk of rearward tip over should use the forward position. See warnings concerning “wheelies”, p.16.

3. Changing the rear axle position is a shop operation that requires the partial disassembly of the wheelchair.

4. It is not necessary to remove the rear wheels from the axle to modify the axle position.

5. The axle and hub plate are attached with three bolts in three holes in the chair side. An unthreaded axle post extends from the axle and fits snugly in the fourth hole.

6. With the Merlexi Craft™ chair on a raised surface and with the wheel locks engaged, remove the six nylon insert nuts and washers (three on each axle plate) that hold the axle in place.

7. Tap out the six bolts and remove.

8. Release wheel lock. Hold a ¼” OD steel rod (or the threaded end of one of the bolts) to the end of this axle post and hammer smartly to unseat the axle and axle plate.

9. Remove the axle plate and wheel assembly and rotate the axle to the position desired.

10. Remove the hubcap from the wheel and tap on the axle end to insert the axle into the side. Make certain the three boltholes are aligned with the holes in the side. Replace the hubcap.

11. Replace the three bolts and washers and tighten three new 3/8”x 16 nylon insert nuts. Tighten to 25 ft-pounds torque. Engage wheel lock.

12. Repeat steps 8-11 on the other wheel. Make certain the axle is inserted in the SAME hole on each side. Failure to follow this direction can lead to unsafe instability and poor performance.

F. FOOTREST ADJUSTMENT FOR THE LIBERTY I™ MERLEXI CRAFT™ CHAIR

Required Components and Special Tools: 8 nylon insert nuts, 1/4" x 20 thread. 2 - 3" 1/4" 20 pan head screws, (for raised, fixed position), 2 - 1/4" x 3 1/8" push button quick release pins, part T03-156, part T02-039 caster cover for 15" and 13 1/2" footrest length (for removable, adjustable footrests), wrench, torque wrench.

1. After attachment, the footrests of the Liberty I™ Merlexi Craft™ chair in the down position are 17" inches from the contoured seat surface to the footrest.
2. The footrest can be raised to a 15" footrest length. The footrests can also be upgraded to a multiposition removable footrest with seat-to-footrest distance of 13 1/2"-19".
3. With the Merlexi Craft™ chair on a raised surface and with the wheel locks engaged, remove the four nuts, washers and bolts on each installed footrest and remove the footrests.
4. **If you are converting the footrests to a fixed, 15" length**, remove the top, front caster plate bolt from each side. This bolt is not needed in this configuration.
5. Using the shorter, 3" bolts pan head bolts removed from the footrest, reinstall in the top set of four holes on the chair side. Reminder: The footrest support is placed inside the chair frame and the head of the pan head bolts is on the inside.) Tighten to 25 ft-pounds torque.
6. Deploy the footrests simultaneously so they interlock. Test for proper utility. Reminder: Both footrests must be in the same vertical position. Failure to follow this direction can lead to unsafe instability and poor performance.

7. **If you are converting the footrests to an adjustable, 17” or 19” removable footrest**, remove the top, front and bottom rear caster plate bolt from each side. These bolts are not needed in this configuration.
8. For **19” footrest length**, insert the Turbo Wheelchair T03-156 push button pin through the two open screw holes on the caster plate on one side. Position the footrest support so that the push button pin inserts into the **top holes** on the footrest support. Push the assembly – caster cover – side – footrest support together so that the pin on the end of the pushpin clicks up. In this position, the pin securely holds the footrest assembly to the chair.
9. Repeat on the other side of the chair.
10. Deploy the footrests simultaneously so they interlock. Test for proper utility. Reminder: Both footrests must be in the same vertical position. Failure to follow this direction can lead to unsafe instability and poor performance.
11. For **17” footrest length**, insert the Turbo Wheelchair T03-156 push button pin through the two open screw holes on the caster plate on one side. Position the footrest support so that the push button pin inserts into the **bottom holes** on the footrest support. Push the assembly – caster cover – side – footrest support together so that the pin on the end of the push pin clicks up. In this position, the pin securely holds the footrest assembly to the chair.
12. Repeat on the other side of the chair.
13. Deploy the footrests simultaneously so they interlock. Test for proper utility. Reminder: Both footrests must be in the same vertical position. Failure to follow this direction can lead to unsafe instability and poor performance.

14. **If you are converting the footrests to an adjustable, 13 1/2" or 15" removable footrest,** remove the top, front caster plate bolt from each side. This bolt is not needed in this configuration.
15. For **15" footrest length**, insert the Turbo Wheelchair T03-156 push button pin through the top front and bottom rear holes of a Turbo Wheelchair T02-039 caster cover, thence through the top two holes of the Merlexi Craft™ chair side above the caster, thence through the **top holes** of the footrest support. Squeeze assembly until the push button on the pushpin pops up. In this position, the pin securely holds the footrest assembly to the chair.
16. Repeat on the other side of the chair.
17. Deploy the footrests simultaneously so they interlock. Test for proper utility. Reminder: Both footrests must be in the same vertical position. Failure to follow this direction can lead to unsafe instability and poor performance.
18. For **13 1/2" footrest length**, insert the Turbo Wheelchair T03-156 push button pin through the top front and bottom rear holes of a Turbo Wheelchair T02-039 caster cover, thence through the top two holes of the Merlexi Craft™ side above the caster, thence through the **bottom holes** of the footrest support. Squeeze assembly until the push button on the pushpin pops up. In this position, the pin securely holds the footrest assembly to the chair.
19. Repeat on the other side of the chair.
20. Deploy the footrests simultaneously so they interlock. Test for proper utility. Reminder: Both footrests must be in the same vertical position. Failure to follow this direction can lead to unsafe instability and poor performance.

G. CASTER WHEEL AND POSITIONS FOR THE LIBERTY I™ AND LIBERTY II™ MERLEXI CRAFT™ CHAIRS

Required Components and Special Tools: 2 nylon insert nuts, 5/16" x 18 thread, wrench.

1. The Merlexi Craft™ Liberty I™ chair comes standard with 8" caster wheels in the mid position. Caster wheels can be changed to 5" and they can be lowered or raised in the caster fork. See Table 1 for configurations. Please note the 5" caster wheel cannot be placed in the highest bolt hole in the caster fork.
2. To change caster position, tip chair on to back so caster wheels are accessible.
3. Remove wheels, axle bolt, washers, spacers and nuts.
4. Reassemble carefully using new nuts with the caster wheel and bolt position desired. Reminder: Make certain spacers are replaced in the same relative position as they were on the chair. Failure to follow this direction can lead to unsafe instability and poor performance.
5. Tighten bolts only to the point that the caster wheel rotates freely.
6. Make certain the wheels on each side are the same diameter and the axle bolts are in the same holes. Failure to follow this direction can lead to unsafe instability and poor performance.
7. Test the chair for performance.

H. ARMREST POSITIONS FOR THE LIBERTY I™ AND LIBERTY II™ MERLEXI CRAFT™ CHAIRS

1. The armrests can be placed in forward and rear position. In the forward position, the front of the armrest is 15" from the seat. In this position, users will

have an easier time raising from the chair. In the rear position, the armrest ends 11" from the seat of the chair. This position is designed for under desk or under table use.

2. The armrests fit on either side in the front position.

In the rear position the curved undersurface of the armrest support must be toward the back of the chair.

3. To remove armrests, grasp tightly and pull up quickly. The armrest will snap out.

4. To install, align the four alignment pins into two of the saddles on the top of the chair side and push down smartly. The armrest will click into place.

I REAR WHEEL ASSEMBLY FOR THE LIBERTY II™ MERLEXI CRAFT™ CHAIR

1. A push button quick release axle, 4 ¼" x ½" diameter holds the rear wheel of the Liberty II™ chair in place.

2. To remove a wheel, push the button in on the axle and simultaneously pull the wheel off. It will come off easily.

3. Repeat on the other side.

4. To reinstall, push the axle button and insert the axle into the axle sleeve. Make certain the button snaps out upon insertion. Failure to follow this direction can lead to unsafe instability and poor performance.

5. Repeat on the other side.

6. Test for performance.

J FRONT FOOTREST ASSEMBLY OF THE LIBERTY II™ MERLEXI CRAFT™ CHAIR

1. The Liberty II™ Merlexi Craft™ chair has adjustable, removable footrests as standard equipment. The factory setting is at 17" seat to footrest distance.

2. To adjust to 19", remove the footrests and follow Section D 8-10.
3. To adjust to 15", remove the footrests and follow Section D 15-17
4. To adjust to 13 1/2", remove the footrests and follow Section D 18-20.
5. Deploy the footrests simultaneously so they interlock. Test for proper utility. Reminder: Both footrests must be in the same vertical position.
6. Failure to follow this direction can lead to unsafe instability and poor performance.

XI. ADJUSTMENTS AND TROUBLESHOOTING

Your Merlexi Craft™ chair will require few adjustments. However there will be times when you suspect that your Merlexi Craft™ chair is not giving its best performance. The table below outlines some performance observations and the adjustments that will correct any performance issues.

Performance Issue	Adjustments			
Looseness in Chair	1. Make certain all bolts/nuts are tight	2. Check casters for tightness of 1/2" nut on top, play in caster sleeve	3. Make certain all hinge pins are in place	4. Make certain axle hub and quick release axle are seated properly
Difficulty Folding, Unfolding	1. Open and close a number of times to free up the tightness. The molded resin is self lubricating and should become easier to manipulate after a few uses.			

Sluggish Turning	1. Make certain caster wheels roll freely. Adjust axle bolts to improve performance.	2. Make certain the vertical shaft on the fork turns freely in its bearings. Loosen or tighten the top nut to give best action.	3. Make certain rear wheels roll smoothly and freely. Adjust quick release pin on Liberty II™ model, make certain the retaining clip on the Liberty I™ rear wheel is in the slot on the axle end.
Caster Flutter	1. Make certain caster shaft is tightened so that it rotates freely		2. Make certain the vertical shaft on the fork turns freely in its bearings. Loosen or tighten the top nut to give best performance.
Loose Footrests (Liberty II™)	1. Make certain push-button quick release pins are in the proper holes and are fully seated (button pops out)	2. Make certain footrests are set at the same level on each side and interlock in the same plane.	

If these adjustments do not fix your performance problems, please check our web site at <http://merlexi.com/performance>. Call the Company at (800)959-4765 or email support@merlexi.com for further information.

XII. REGULAR MAINTENANCE

You can expect your Merlexi Craft™ chair to give years of trouble free performance if used properly. One of the earliest Merlexi Craft™ chairs produced gave more than 30 years of simulated service without major adjustments or failure.

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. Turbo Wheelchair is available to provide maintenance services if you need major repair to your Merlexi Craft™ chair.



WARNING

Inspect and maintain your Merlexi Craft™ 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 your upholstery every three months.**
- D. **Check all fasteners every six months for tightness.**
- E. **Check the fit and condition of the removable armrests every six months.**
- F. **Check your axles, axle sleeves, wheels, tires and spokes, casters and frame every six months.**

If you have questions about this schedule or seek additional information, please look at the Turbo Wheelchair web site, <http://merlexi.com/maintenance>.

XIII. MERLEXI CRAFT™ CHAIR WARRANTY

A. LIFETIME WARRANTY

Turbo Wheelchair warrants the chair body, including all molded body parts made by the Company and the connecting hinges, against defects in material and workmanship for the life of the original purchaser. We warrant rear and caster wheels, axles and forks for five years from date of purchase by the original purchaser.

B. LIMITATIONS

1. Turbo Wheelchair does not warrant tires and tubes, upholstery and armrests and accessories not sold or installed by Turbo Wheelchair Co., Inc.
2. Turbo Wheelchair does not warrant against any damage from neglect, misuse or damage incidental to any automobile or conveyance incident or accident.
3. Turbo Wheelchair does not warrant against any damage resulting from exceeding the weight limit of 250 pounds (114 kg.).
4. Turbo Wheelchair does not warrant a Merlexi Craft™ chair from which the original serial number tag has been removed.
5. Turbo Wheelchair only warrants the Merlexi Craft™ chair in connection with use in the United States of America.

C. WHAT TURBO WHEELCHAIR WILL DO

1. **Subject to the foregoing limitations, Turbo Wheelchair will repair or replace warranted parts and labor free of charge.** This states Turbo Wheelchair's entire liability and your sole and exclusive remedy pursuant to the Merlexi Craft™ chair warranty.

D. WHAT YOU MUST DO

1. Obtain prior approval for return of the chair or parts to be repaired or replaced.
2. Return the parts or chair to Turbo Wheelchair Co., Inc. at the address given. You are responsible for shipping.
3. You will not have to pay for repair or replacement labor on parts covered by this warranty.

E. NOTICE

1. This section states the full extent of the warranty provided with this Merlexi Craft™ chair. **ALL OTHER WARRANTIES ARE HEREBY DISCLAIMED.** It gives you certain legal rights that may vary from state to state.



MERLEXI CRAFT

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