

Stealth Products[®]

Mobility Bases



OWNER'S MANUAL



Lightning Pushchair

Lightning Pushchair Owner's Manual

Stealth Products strives for 100% customer satisfaction. Your complete satisfaction is important. Please contact us with feedback or to suggest changes which may help improve the quality and usability of our products. You may reach us at:



Stealth Products, LLC

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General

Read and understand all instructions prior to the use of the product. Failure to adhere to instructions and warnings in this document may result in property damage, injury, or death. Product misuse due to failure to adhere to the following instructions will void its warranty.

Immediately discontinue use if any function is compromised, if parts are missing or loose, or if any component shows signs of excessive wear. Consult with your supplier for repair, adjustment, or replacement.

Important Information!

All persons responsible for fitting, adjustment, and daily use of the devices discussed in these instructions must be familiar with and understand all safety aspects of the devices mentioned. In order for our products to be used successfully, you must:

- read and understand all instructions and warnings;
- maintain our products according to our instructions on care and maintenance; and
- ensure devices are installed and adjusted by a trained technician.

Supplier Reference

Supplier: _____

Telephone: _____

Address: _____

Purchase Date: _____

Model: _____

These installation instructions will guide you through your product's options and possibilities. They are written with the expressed intent of use with standard configurations. They also contain important safety and maintenance information and describe possible problems that may arise during use. For further assistance or more advanced applications, please contact your supplier or Stealth Products, LLC at (512) 715-9995 or toll free at (800) 965-9229.

Always keep the operating instructions in a safe place so they may be referenced as necessary.

All information, pictures, illustrations, and specifications are based on the product information that was available at the time of printing. Pictures and illustrations shown in these instructions are representative examples and are not intended to be exact depictions of the various parts of the product.

CAUTION

These products are designed to be fitted, applied, and installed exclusively by a healthcare professional trained for these purposes. The fitting, application and installation by a non-qualified individual could result in serious injury.

Ordering Documentation

You can download additional copies of this user manual by accessing the Stealth website (www.stealthproducts.com) and searching "Lightning Pushchair Owner's Manual" in the search bar at the top of the page.

Our products are designed, manufactured, and produced to the highest of standards. If any defect in material or workmanship is found, Stealth Products, LLC will repair or replace the product at our discretion. Any implied warranty, including the implied warranties of merchantability and fitness for a particular purpose, shall not extend beyond the duration of this warranty. Stealth Products, LLC does not warrant damage due to, but not limited to:

- misuse, abuse, or misapplication of products; and/or
- modification of products without written approval from Stealth Products, LLC.

Any lack or alteration of serial number, where applicable, will automatically void this warranty.

Stealth Products, LLC is liable for replacement parts only. Stealth Products, LLC is not liable for any incurred labor costs.

No person is authorized to alter, extend, or waive the warranties of Stealth Products, LLC.

Stealth Products warrants against failure due to defective materials or workmanship for a period of:

Covers: 180 days
Hardware: 5 years
Electronics: 3 years

In Case of Product Failure

In the event of product failure covered by our warranty, please follow the procedures outlined below:

1. Call Stealth Products at (512) 715-9995 or toll free at (800) 965-9229.
2. Request a Return Authorization form (RA) from the Returns Department and follow the instructions on the document.

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Warning Labels

6.1

Warnings are included for the safety of the user, client, operator and property. Please read and understand what the signal words **DANGER, WARNING, CAUTION, NOTICE** and **SAFETY** mean, and how they could affect the user, those around the user, and property.

DANGER

Identifies an **imminent** situation which, if not avoided, may result in **severe injury, death, and/or property damage**.

WARNING

Identifies a **potential** situation which, if not avoided, may result in **severe injury, death, and/or property damage**.

CAUTION

Identifies a **potential** situation which, if not avoided, may result in **minor to moderate injury and/or property damage**.

NOTICE

Identifies important information not related to injury, but possible **property damage**.

SAFETY

Indicates steps or instructions for safe practices, reminders of safe procedures, or important safety equipment that may be necessary.

Limited Liability

6.2

Stealth Products, LLC accepts no liability for personal injury or damage to property that may arise from the failure of the user or other persons to follow the recommendations, warnings, and instructions in this manual.

Stealth Products, LLC does not hold responsibility for final integration or final assembly of product to end user. Stealth Products, LLC is not liable for user death or injury.

Testing

6.3

Initial setup and driving should be done in an open area free of obstacles until the user is fully capable of driving safely.

Safety Rules

7.1

- Immediately discard any plastic wrapping.
- Never allow children to fold, assemble, or disassemble the push chair.
- Do not exceed the push chair's weight capacity. Excessive weight may cause a hazardous, unstable condition if the approved load is exceeded.
- Falling or sliding out of the chair presents risks for serious injury. Exercise caution.
- Always use a seat belt.
- Never leave the chair user unattended.
- Never use the push chair if it becomes damaged. Discontinue use immediately.
- Always engage the brakes when stopping or releasing the chair handle.
- Accessories or parcels placed in or on the push chair may render it unstable. Exercise caution.
- Avoid burn risks by never putting hot liquids on the working tray.
- Folding and unfolding the chair poses risks of finger entrapment. Exercise caution.

WARNING

Incorrect installation of the **Lightning** push chair or its accessories may cause damage to the hardware and/or injury to the user.

Intended Use

8.1

The **Lightning** push chair is intended for use as a pediatric mobility base. Designed to be highly durable while remaining portable and convenient, the **Lightning** is lightweight and easily folded, transported, and stored.

Crafted with 7000 series aluminum, commonly used for aircraft structural members because of its excellent strength-to-weight properties, the **Lightning** is available in two models, three sizes, and two colors.

Lightning Standard Push Chair Features

8.2

Heavy-duty upholstery includes ductile stiffeners and is easily cleaned

Back angle adjustment:

- 85°
- 90°
- 95°

Wheel Locks

Storage Basket

Front rigging includes swing-away, flip-up adjustments for these areas:

- Extension
- Fore/Aft
- Angle
- Lateral

Adjustable seat depth accommodates growth

Off-set arms provide additional width

Removable, adjustable swing-away footrests



Features of all Lightning Models

Both the **Lightning** Standard and **Lightning** Special Edition models come in three sizes (11", 14", and 16") and two color options, Red Glow or Navy Blue.

11" Lightning Standard:

- Frame weighs only 25lbs.
- Folds easily for transport
- Can support up to 75lbs.
- Adjustable seat and back angle to accommodate clients' needs

14" Lightning Standard:

- Frame weighs only 27lbs.
- Folds easily for transport
- Can support up to 125lbs.
- Adjustable seat and back angle to accommodate clients' needs

16" Lightning Standard:

- Frame weighs only 28lbs.
- Folds easily for transport
- Can support up to 150lbs.
- Adjustable seat and back angle to accommodate clients' needs

Special Edition Features

8.4

The **Lightning** Special Edition model features all of the options of the **Lightning** Standard model, plus additional add-ons, including:

Canopy	
Padded Covers for Harness	
Heel-Loop/ Ankle Cuffs	
Headrest Extension* & Headrest Pad*	
Adjustable Single* & Double* Flap Lateral Support with Scoli Pad	

Specifications for all Models

8.5

	11" Model	14" Model	16" Model
<i>Overall Height (Push Handle)</i>	36"	36"	38"
<i>Overall Width</i>	19.5"	24"	25"
<i>Seat Angle Settings</i>	30°	30°	30°
<i>Seat Depth</i>	10-12"	12-14"	16-18"
<i>Seat to Floor</i>	20"	21"	22"
<i>Seat to Foot Plate (Standard Extension Range in 1" Increments)</i>	1-12"	1-17"	1-17"
<i>Back Angle Settings</i>	85°, 90°, 95°	85°, 90°, 95°	85°, 90°, 95°
<i>Headrest Extension</i>	+ 6" height	+ 6" height	+ 6" height
<i>Front Wheels</i>	6"	6"	6"
<i>Rear Wheels</i>	10"	10"	10"
<i>Overall Weight of Chair (Without Rigging)</i>	25lbs.	27lbs.	28lbs.
<i>Weight Capacity</i>	75lbs.	100lbs.	150lbs.

Installation Instructions

Preparations

9.1

Only a qualified service technician should install the **Lightning** and its accessories.

WARNING

Incorrect installation of the **Lightning** push chair or its accessories may cause damage to the hardware and/or injury to the user.

Tools

9.2

Use the proper tools to install and adjust the **Lightning** push chair to the desired position for the user. Ensure all torque specifications are followed.

CAUTION

The use of improper tools may cause damage to the device. Not tightening to the torque specification can cause components to fail or cause discomfort to the user.

Installation Plan

9.3

Set up an installation plan before beginning the installation. This plan should take into account:

- Where the **Lightning** will be placed as well as applicable laterals and support cushions.
- How the **Lightning** will be operated, including the folding and locking functions.
- Sufficient clearance of and for other hardware and accessories

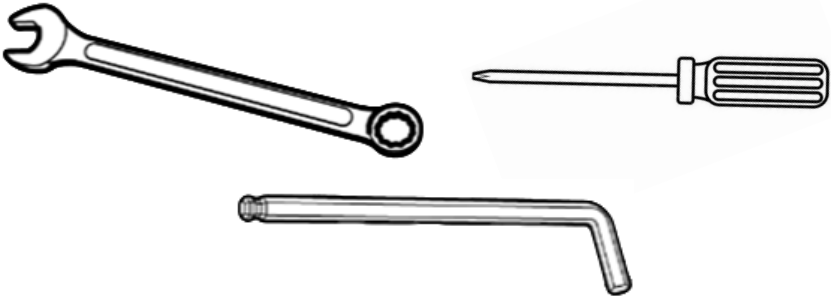
CAUTION

Any connection must always be secured with all delivered screws. Only use the screws provided in the package.

Required Tools

9.4

Below are the tools needed to complete the installation of the laterals:



Tool:
Adjustable or 10mm Crescent Wrench
#1 Phillips Screwdriver
3/16" Hex Key

(Note: Tools are not provided.)

Folding and Carrying the Lightning

9.5

Step One: Grasp the push chair handle(s). Use your foot to depress the folding lock mechanism, and continue to depress the mechanism while pushing the back of the push chair toward its seat.

STEP 1



Step Two: Lay the folded chair on its left side, so that the carrying handle is face-up.

STEP 2



Step Three: Unlatch the hook-and-loop strap from the back of the chair. Loop the strap under then back over the chair's armrest, then fasten the hook-and-loop strap to the back of the chair.

STEP 3



Step Four: Having secured the hook-and-loop strap around the armrest, lift the push chair by its plastic carrying handle.

STEP 4



Adjusting the Seat Back Angle

9.6

In order to adjust the back angle, the chair's back upholstery must first be removed.

Step One: Unlatch both hook-and-loop straps on the seat back.

STEP 1



Step Two: Remove the accessory tubes from both sides of the back.

STEP 2



Step Three: Remove the back upholstery from the chair.

STEP 3



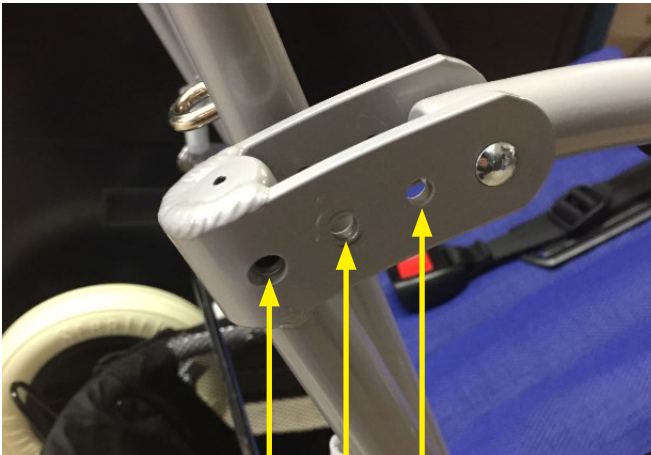
Step Four: Using an adjustable or 10mm crescent wrench, remove both adjustment nuts from either side of the chair.

STEP 4



Adjustment Nut

The seat back can be set to the following angles:



95°

90°

85°

Step Five: Move each side of the seat back to the desired angle, then replace and tighten both adjustment nuts.

STEP 5

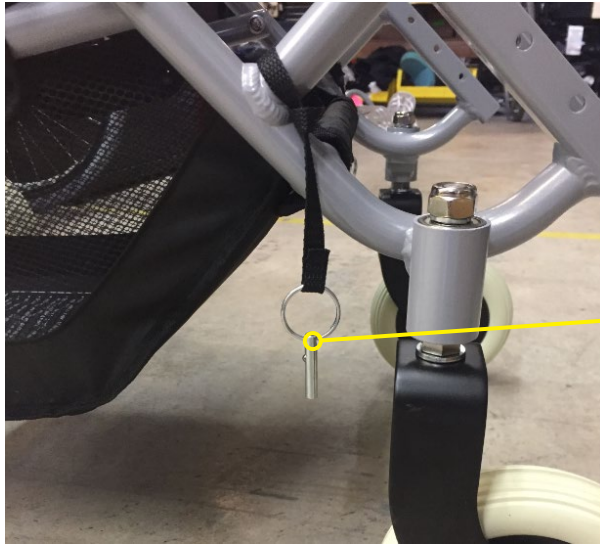


Installing the Foot Plates

9.7

Step One: On each side of the push chair, locate the locking pin, pictured below.

STEP 1



Locking Pin

Step Two: Insert each foot plate rod into the grooved receiver tracks on each side of the chair.

STEP 2



Step Three: Adjust each foot plate to the desired height. When in the desired location, secure each foot plate by inserting the locking pin into the corresponding hole on the receiver track.

STEP 3



Foot Plate Depth Adjustment

9.8

Step One: Swing each foot plate out, away from the chair.

STEP

1



Step Two: On each foot plate, use an adjustable or 10mm crescent wrench to loosen the two depth adjustment nuts, pictured below.

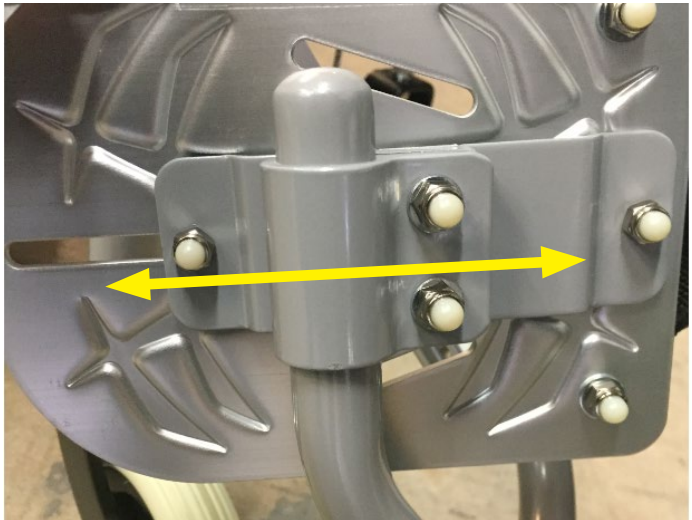
STEP 2



Loosen to adjust depth.

Step Three: Having loosened the depth adjustment nuts, slide each foot plate along its tracks to its desired position.

STEP 3



Step Four: When each foot plate is in its desired position, secure it in place by tightening the depth adjustment nuts.

STEP 4



Tighten to
secure.

Using and Adjusting the Safety Harness

9.9

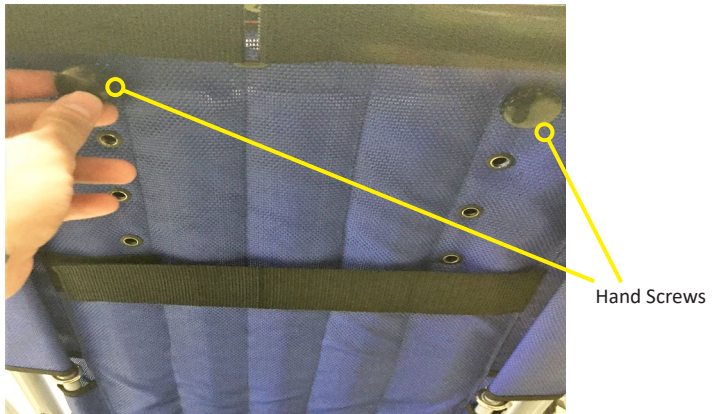
Step One: Adjust the groin strap to the length desired, then firmly cinch down the strap to secure it.

STEP 1



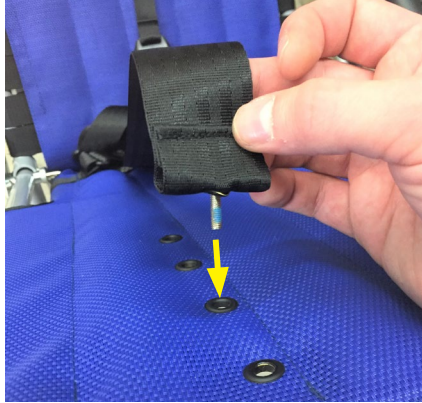
Step Two: Remove both hand screws from the seat back.

STEP 2



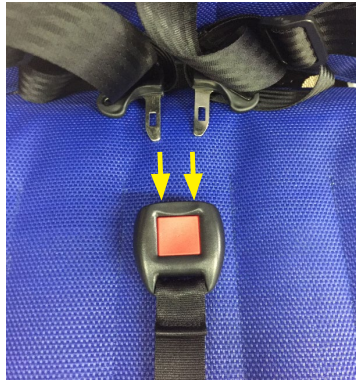
Step Three: On the front of the chair, remove the top strap pins and re-insert them in the desired locations. When the strap pins have been inserted in their desired locations, replace and firmly tighten both hand nuts.

STEP 3



To lock and unlock the safety harness:

Lock:



Insert both harness pins into the slots on the push button.

Unlock:



Press the red push button and gently pull the harness straps away.

Engaging and Disengaging the Wheel Lock

9.1.0

Step One: To engage the wheel lock, press down on the brake lever with your foot. This will lock both rear wheels.

STEP 1



Brake
Lever

Step Two: To disengage the wheel lock, place your foot under the brake lever and, using your foot, pull the lever upwards. This will unlock both rear wheels.

STEP 2



Installing the Headrest Extension

9.1.1

Step One: Insert both headrest extension rods into the accessory tubes on the seat back.

STEP 1

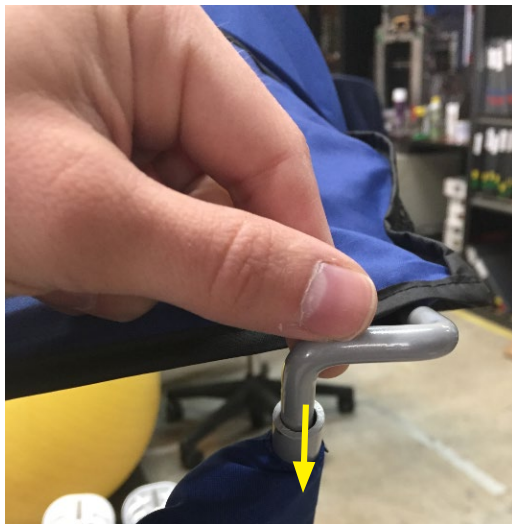


Installing the Canopy Extension

9.1.2

Step One: Insert both canopy extension rods into the accessory tubes on the seat back. If the headrest extension is already in place, insert the canopy extension rods into the tubes on top of the headrest extension.

STEP 1



Installing the Padded Headrest

9.1.3

Step One: Slide the padded headrest over the headrest extension, as pictured below.

STEP

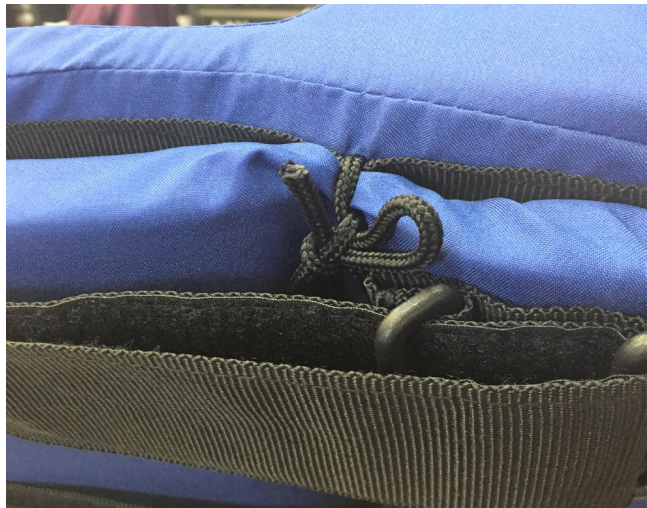
1



Step Two: On both the left and right side, thread the lower cord of each pair of cords through the top eyelet of the headrest extension. Then, firmly tie the cords of each pair to one another.

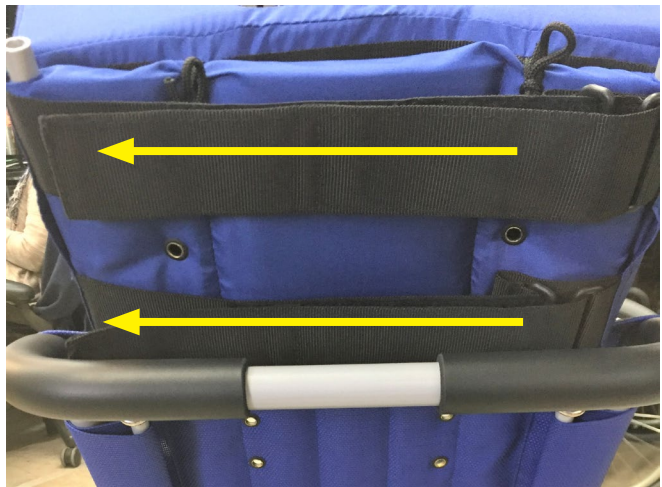
STEP

2



Step Three: Having tied the padded headrest to the headrest extension, tighten and fasten both hook-and-loop straps.

STEP 3

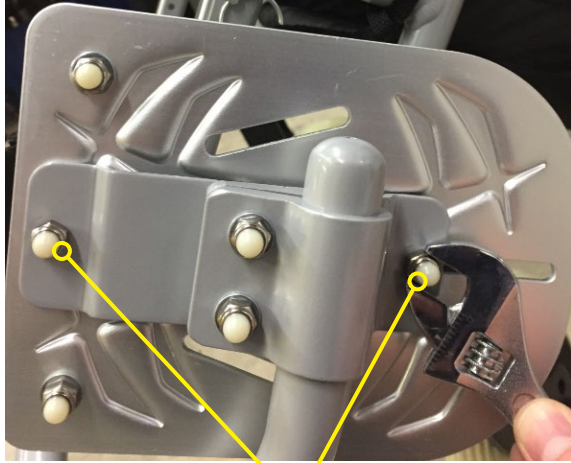


Installing the Ankle Cuffs

9.1.4

Step One: On each foot plate, use an adjustable or 10mm crescent wrench to loosen and remove the depth adjustment nuts. Then, remove each foot plate from its foot plate arm.

STEP 1



Loosen and remove depth adjustment nuts to remove foot plate.

Step Two: Overlap each ankle cuff's straps until each strap's holes are aligned. Thread the provided screws through the hole of each strap overlap and into the top of each foot plate.

STEP 2



Step Three: On each foot plate's underside, fasten the provided nuts to each ankle cuff screw. Use a #1 Phillips head screwdriver to tighten and secure each screw.

STEP 3



Step Four: Having secured the ankle cuffs to both foot plates, replace each foot plate on its foot plate arm and tighten its depth adjustment nuts.

STEP 4



Installing the Padded Harness Cover

9.1.5

Step One: Wrap each padded harness cover around the top straps of the safety harness, then fasten the covers' hook-and-loop patches.

STEP 1



Installing the Trunk Support Accessory

9.1.6

Step One: Place the trunk support accessory on the front of the seat back and fasten it around the back using the two rear hook-and-loop straps.

STEP 1



Step Two: On each side of the chair, wrap the strap connected to the innermost flap around the lower portion of the armrest tube, then fasten it to the flap's hook-and-loop patch.

STEP 2



Innermost Flap



Step Three: On each side of the chair, feed the strap connected to the outermost flap of the trunk support accessory through the available strap buckle, pulling the strap tight before fastening it to the outermost flap's hook-and-loop patch.

STEP 3



Outermost Flap

Strap Buckle



Step Four: Take the remaining, unattached strap and feed it through the strap buckle on the opposite side of the chair, then cinch it back toward itself and fasten it to its hook-and-loop strap.

STEP 4



Attaching the Work 'N Play Tray

9.1.7

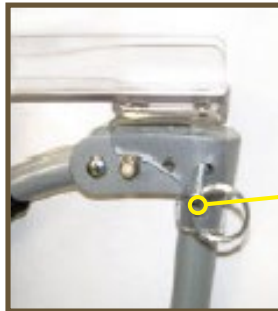
Step One: Place the tray on top of the chair's armrest handles.

STEP 1



Step Two: Insert the locking pins into the armrests on both sides of the chair, as pictured below.

STEP 2



Locking
Pin

Remove both locking pins to detach the tray. Always ensure the tray is free from objects before detaching.

DANGER

Never put hot liquids on the tray. Doing so presents a serious burn risk to the user.

WARNING

Always remove the Work 'N Play tray when transporting a user in a moving vehicle.

CAUTION

Work 'N Play trays have been tested to hold up to 15lbs. Do not overload the tray.

Preparing the Lightning for Transport

10.1

- Check that the user is correctly strapped in the seat with the five-point safety harness. Check that the safety harness has been properly adjusted.
- During transportation, the headrest extension must be fitted.
- Remove the following if fitted:
 - Work 'N Play tray
 - Canopy
 - Shopping Basket
 - Rain Hood

CAUTION

The following instructions must be followed when using the **Lightning** as a vehicle seat.

WARNING

Failure to attach the hardware as detailed could lead to serious injury or death.

Tools and Components Needed

10.2

Tools Required:

- 3/16" hex key

Components:

- Four (4) tie-down assemblies which include:
 - One (1) handle-threaded clamp
 - One (1) through clamp
 - Four (4) 1/4-20 x 3/4" screws

Assembly Instructions

10.2

Step One: Separate the four through clamps from the handle-threaded clamp by removing the four screws.

Step Two: Loosely position the handle-threaded clamp and the through clamps to the front left and right bars, as pictured below.

Step Three: Loosely position the handle-threaded clamp and the through clamps to the rear left and right bars, as pictured below.

Front Clamp:



Back Clamp:



(Note: Always ensure the handle-threaded clamps face outside the chair.)

Use a 3/16" hex key to tighten all screws to 6.3 lb-ft.

Attaching the Lightning to a Vehicle

10.3

Step One: Position the assembly in the vehicle over the floor track. The front of the **Lightning** should face the front of the vehicle (i.e., in the direction of travel).

Step Two: Apply the chair's brakes.

Step Three: Attach the front restraints to the floor tracks and the front handle-threaded clamps, making sure they are in line with the floor tracks. Attach the rear restraints to the floor track and the rear handle-threaded clamps.

Step Four: Follow the operating instructions for the specific type of tie-downs you are using. Ensure the tie-downs are secure and have been pulled taut.

(Note: To release the chair, follow the above instructions in reverse order.)



Replacing Wheels

11.1

In order to replace both front and back wheels, perform the following steps:

Step One: From the outside of the wheel/wheel caster, insert the shoulder bolt through the wheel to the inside wheel caster/mount.

STEP 1



Step Two: Place the washer and nut on the bolt from the inside, then use an adjustable or 10mm crescent wrench to tighten the bolt and secure the wheel.

STEP 2



Dealer Assistance

12.1

During first-time use by the client, it is advised that the dealer or service technician not only assemble the product, but also explain the configuration of user positioning to the customer (i.e., the user and/or the attendant). If needed, the dealer can make final adjustments.

WARNING

The **Lightning** push chair should only be prescribed and fitted by qualified professionals.

User Testing

12.2

It is important that the customer be fully aware of the installation of the **Lightning** push chair, including how to use it and how it can be adjusted to fit the client comfortably. As a dealer, proceed as follows:

- Explain and show the customer how you have executed the installation and explain the function.

Have the user test the position of the seating system.

- Is the hardware in the proper position for the client?
- Can the user safely operate all controls with minimal effort?

If needed, make any adjustments to the positioning. Explain to the customer possible problems and how to address them.

Conditions of Use

12.3

The **Lightning** push chair is intended for use as installed by the dealer, in accordance to the installation instructions in this manual.

- The foreseen conditions of use are communicated by the dealer or service technician to the user and/or attendant during the first-time use.
- If the usage conditions change significantly, please contact your dealer or a qualified service technician to avoid unintended damage.

DANGER

Failure to comply with these warnings could result in serious bodily harm.

Cleaning and Maintenance

13.1

Frame:

- Wipe with a damp cloth and dry thoroughly on a daily basis. Never put away wet.
- For stains, wipe with a damp cloth and warm, soapy (mild soap) water.
- When cleaning the frame, fold and open the chair and check that all movements through the folding range are free and undamaged.

CAUTION

Never use furniture polish to clean the frame.

Upholstery:

- Remove the seat and back upholstery from the chair.
- Remove the harness and support boards from the upholstery.
- Machine wash in cold water on a delicate cycle.
- Dry thoroughly before reassembly.
- Check the upholstery and straps for wear.

Harness and Accessories:

- Remove the harness and/or accessories from the chair.
- Wipe with a clean, damp cloth and dry thoroughly. Check the condition of the harness, stitching, and buckle while cleaning.

CAUTION

Do not immerse in water or wash in a machine. Do not tumble dry.

DANGER

Failure to comply with these warnings could result in serious bodily harm.

Additional Maintenance

13.2

- Check the chair for any foam breakdown and/or metal coming through the foam.
- Examine tires for sharp objects, cuts, or splits, and check the operation of the brakes.
- Examine casters and wheels for free rotation, security, and accumulation of fluff or grit.
- Examine wheel bearings and casters/suspension for excessive wear.

SAFETY

Check, repair, and/or replace nuts, bolts, screws, and pivots as needed.



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