

Operator Manual



OUT-RIDER®

PUL-1100

02-04-2022

P/N 1100-O



www.bruno.com

Thank you for purchasing a Bruno PUL-1100 Out-Rider® lift..



The information contained in this manual is provided with your safety in mind. Please read and follow the instructions to ensure safe and trouble-free operation.

Throughout this manual, **safety precautions** are provided to identify potentially hazardous situations and to advise how to avoid them.



WARNING: Indicates a potentially hazardous situation that, if not avoided, could cause serious bodily injury and/or property damage.



CAUTION: Indicates a potentially hazardous situation that, if not avoided, could cause damage to the lift, vehicle and/or moderate injury.



CAUTION: Indicates a potentially hazardous electrical situation that, if not avoided, could cause damage to the lift, vehicle and/or moderate injury.

NOTE: Directions that make it easier to install or operate the lift.

PRODUCT REGISTRATION FORM

Please register your Bruno lift in one of two ways:

- Fill it out online at www.bruno.com/forms/product-registration
- Complete the enclosed Product Registration card and return via mail

Serial Number

Please note a serial number is found on your Bruno lift. The serial and model number will be needed for your dealer to file a warranty claim, request parts or service the unit.

Authorized Bruno Dealer

Bruno products must be installed and maintained by an authorized Bruno dealer, or the warranty will be null and void.

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FOR YOUR SAFETY

- The PUL-1100 is designed to lift mobility devices weighing up to 350 lb (159 kg), depending on the optional equipment included with your lift.
- Do not abuse or exceed the maximum lift capacity indicated on the unit.
- Do not remove any guards or covers.
- Always be aware of surface conditions before using the lift and take appropriate care.
- Park the vehicle on a horizontal, level surface. Load and unload on as level a surface as possible.
- Avoid unloading into vehicular traffic.
- Read and understand the operating instructions, and all safety precautions prior to using the lift. Operate the lift several times while the installer is available to answer questions.
- Vehicle engine must be shut off, with transmission set in park (parking brake must be engaged on models with manual transmission).
- Keep hands, fingers and feet away from moving components during lift operation.
- Be sure the power source of the device being lifted (scooter, power chair, wheelchair) is OFF before lifting.

WARNING: Read vehicle manufacturers (OEM) instructions about the vehicle's electrical system BEFORE working on the vehicle. Vehicle OEMs have model specific requirements about battery disconnection when performing work on a vehicle.

Disconnecting batteries incorrectly or working on a vehicle with batteries improperly in the circuit MAY cause loss of vehicle data, damage vehicle wiring system or even cause airbags to deploy. This information can be found in the VEHICLE OWNER'S MANUAL or the VEHICLE REPAIR GUIDE.

CE AND MAXIMUM LOAD RATING



WARNING

The lift weight rating is the MAXIMUM load rating. The maximum load rating for the specific vehicle application has been determined during the design of the mounting assembly. During dealer installation, factors inherent to specific applications including, but not limited to, vehicle structure and condition, operating environment, and customer ability may reduce the effective weight rating. The structure of the lift itself is NOT a factor in establishment of load ratings.



This lift fulfills requirements according to EMC 95/54/EC, 2004/108/EC.

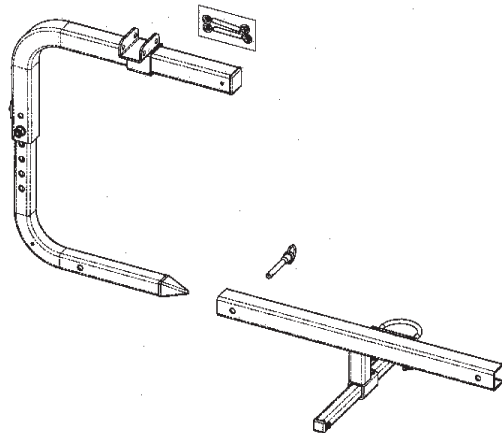
The indicated maximum load rating is appropriate for lifts installed according to Bruno instructions.

<u>LIFT MODEL</u>	<u>MAXIMUM LOAD RATING</u>
PUL-1100 Out-Rider®, light-duty actuator	up to 100 lb (45 kg)
PUL-1100 Out-Rider®, standard	up to 200 lb (90 kg)
PUL-1100 Out-Rider®, heavy-duty motor	up to 350 lb (159 kg)

DOCKING DEVICES

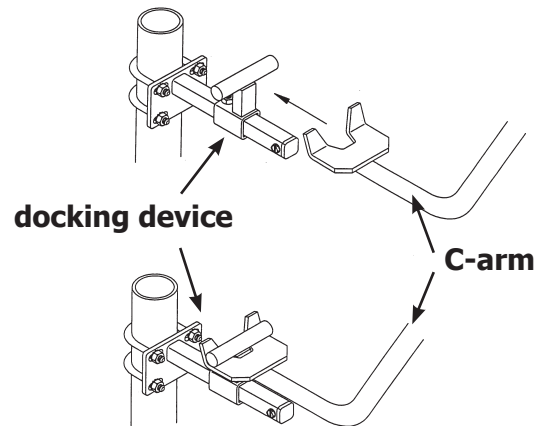
■ EXAMPLE 4.1

C-arm receiver tube and docking device



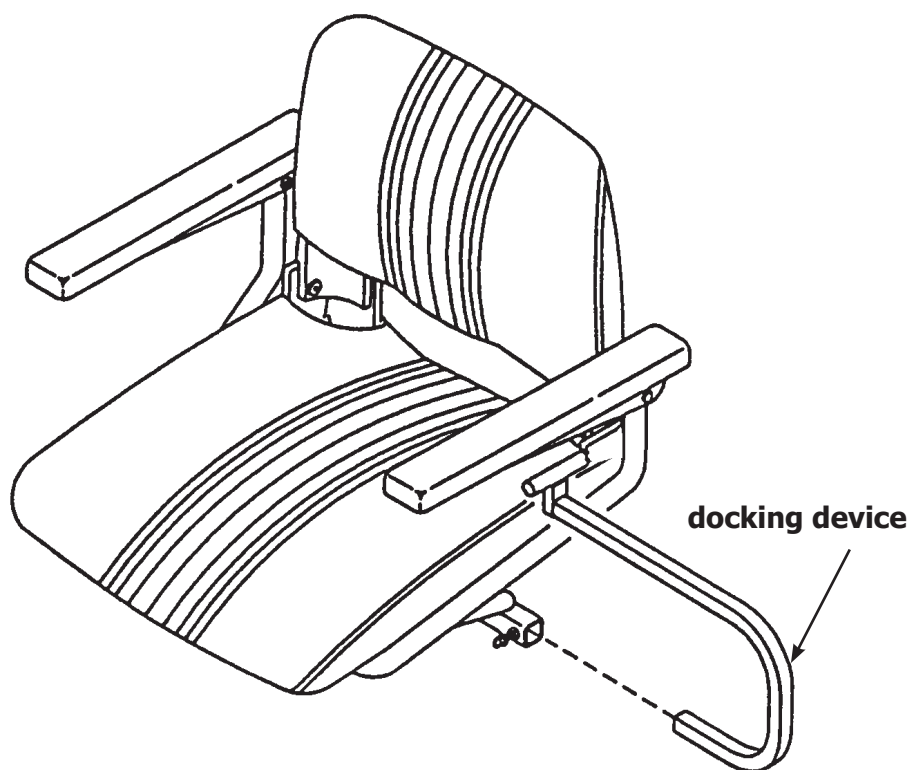
■ EXAMPLE 4.2

C-arm and docking device

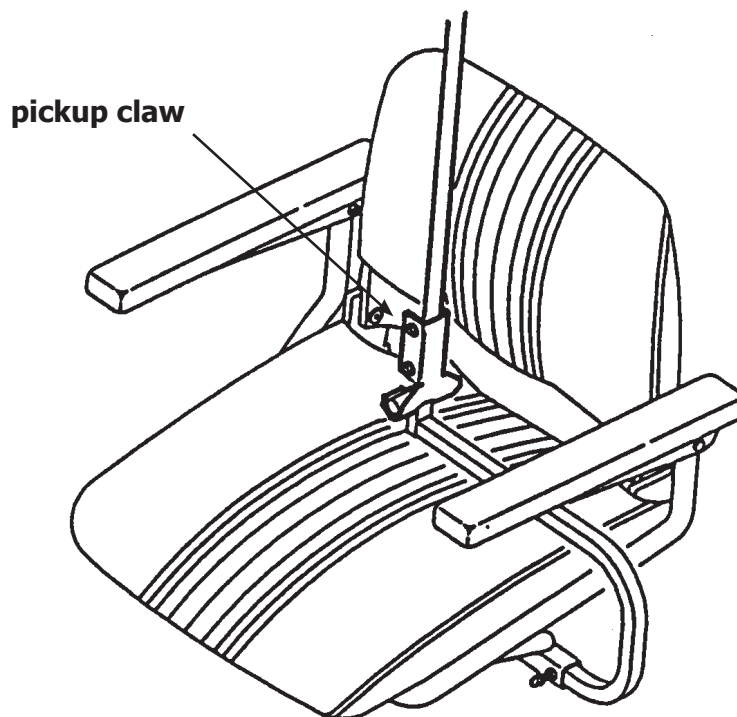


DOCKING DEVICES (CONTINUED)

■ EXAMPLE 4.3



■ EXAMPLE 4.4



LOADING A MOBILITY DEVICE

■ STEP 5.1

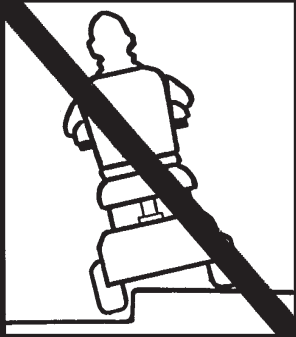
- Open driver-side door.
- Move mobility device into transfer position.
- Turn scooter off (lock the wheelchair wheels).
-

NOTE: Before connecting a mobility device to the PUL-1100, be sure the required docking device has been mounted to the mobility device (see previous page).



WARNING

TIP OVER RISK



Allowing mobility device wheels to roll off a raised surface during loading can result in operator injury and/or damage to the mobility device or vehicle.

Keep mobility device at a safe distance from raised surfaces (eg. sidewalk).

■ STEP 5.2

- Using the Out-Rider® hand control press UP on the ARM switch.
- Raise the lift to a height that allows it to clear the side of the pickup.
- Press the OUT switch.
- Rotate the lift fully out to its stop position.
- Pressing DOWN on the ARM switch, lower the arm completely down.
- Pressing DOWN on the BELT switch, lower the docking device to the mobility device.
- Connect the mobility device to the docking device.

NOTE: Releasing a pendant switch stops lift operation.



LOADING A MOBILITY DEVICE (CONTINUED)

■ STEP 5.3

- Pressing UP on the BELT switch, raise the mobility device to a height approximately 2" (5 cm) from the motor head.

STOP WHEN THE WHITE STITCHED SIGHT LINE ON THE BELT REACHES THE BELT GUIDE.

- Pressing UP on the ARM switch, raise the lift arm to raise the mobility device to a height that will allow the unit being lifted to clear the side of the pickup.
- Pressing the IN switch, guide the mobility device with your hand has the unit swings over the side of the pickup.
- Pressing DOWN on the ARM switch, lower the mobility device to the bed of the pickup.

NOTE: If the mobility device does not rest firmly in place with the arm completely lowered, lower the belt until it does.

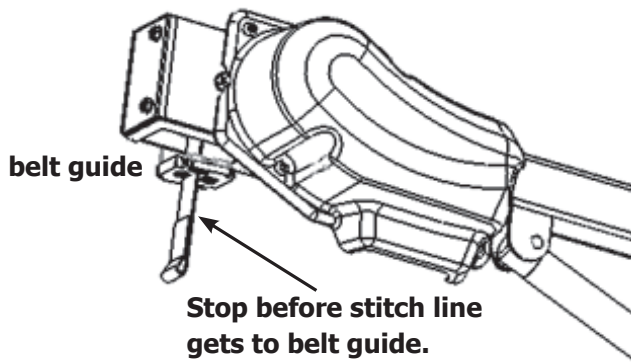
■ STEP 5.4

- SET THE MOBILITY DEVICE'S PARKING BRAKE.
- Place the control pendant and its cord in a secure location in the vehicle.

NOTE: Make sure the pendant is placed where nothing will come to rest on the buttons.



NOTE: Releasing a pendant switch stops lift operation.



UNLOADING A MOBILITY DEVICE

■ STEP 6.1

- Pressing UP on the BELT switch, raise the mobility device to a height no closer than 2" (5 cm) from the motor head.

NOTE: STOP WHEN THE WHITE STITCHED SIGHT LINE ON THE BELT REACHES THE BELT GUIDE.

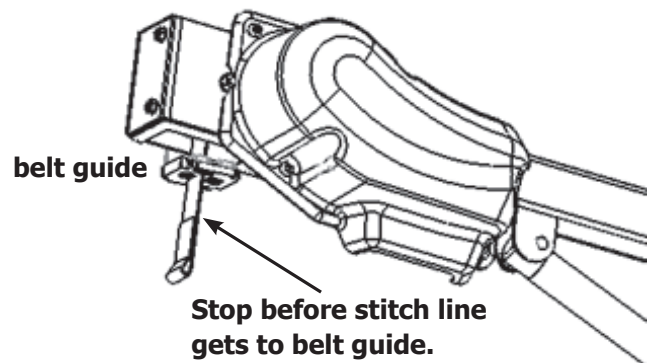
- Pressing UP on the ARM switch, raise the lift arm to raise the mobility device to a height that will allow it to clear the side of the pickup.
- Pressing the OUT switch, rotate the lift fully out to its stop position.
- Pressing DOWN on the ARM switch, fully lower the lift arm to its stop point.
- Pressing DOWN on the BELT switch, lower the mobility device until it is in the transfer position.



NOTE: Releasing a pendant switch stops lift operation.

■ STEP 6.2

- Detach the C-arm or pickup claw from the docking device on the mobility device.
- Repeat steps 10, 11 and 12 of the LOADING procedure to return the lift to its position within the confines of the pickup bed.
- Transfer from the pickup to the mobility device.
- Turn the scooter ON (release the wheelchair brake).
- Close the pickup door.
- You're on your way!



EMERGENCY OPERATION

■ STEP 7.1

The PUL-1100 is equipped with a hand crank to serve in case of a power failure.

NOTE: This hand crank is intended solely to maneuver the lift **back into the vehicle** so that the vehicle may be driven.

Accessing and using the hand crank:

- Remove the four (4) thumb screws securing the cover to the lift base.
- Slide the rubber boot up on the vertical tube (see right).
- Slip the rubber boot over the outside of the cover (see right and below).



EMERGENCY OPERATION (CONTINUED)

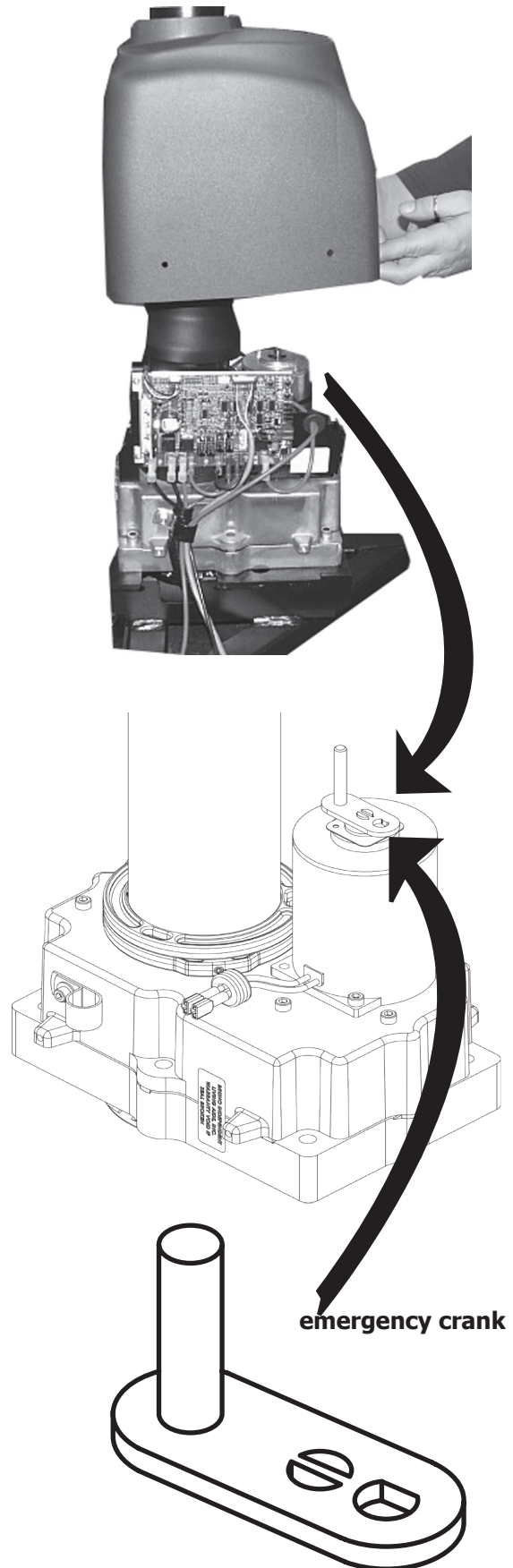
■ STEP 7.2

- Slide the cover up, rotating the cover approximately 90 degrees to provide access to the base motor.

NOTE: Hold the cover up and out of your way as you locate the emergency crank.

You may wish to tuck the cover behind the motor.

- Remove the emergency crank from its storage location.
- Place the emergency crank over the motor shaft as shown.
- Rotate the crank until the lift has returned to its home position.
- Remove the crank from the motor and return it to its storage position.
- Have the lift examined by an authorized Bruno dealer.



MAINTENANCE AND TROUBLESHOOTING

Take the vehicle and lift to an authorized Bruno dealer for complete inspection and any necessary repairs/replacements once a year (more frequently if the lift is used under strenuous conditions).

PROBLEM	POSSIBLE CAUSE / SOLUTION
Lift does not operate	Verify that circuit breaker is ON.
Lift belt goes down when UP pendant switch is pressed, and up when DOWN switch is pressed	Lift has been run down too far and belt has wrapped backwards around spool. Run lift down until belt wraps correctly onto the spool.
Lift makes grinding noise	Have the unit inspected by an authorized Bruno dealer.

BRUNO GOLD LIMITED WARRANTY FOR VEHICLE LIFT

3 Years

Bruno Independent Living Aids, Inc.® (“Bruno”) is so confident in our USA designed and built units that we provide every original buyer with the following “Industry Leading” warranty for your peace of mind.

The quality of parts we use and the care our employees take allow Bruno to provide the original buyer of its Bruno Vehicle Lift with a **3-year warranty** that all parts are free of defects in material and workmanship.

Bruno’s warranty periods begin with the **date of the installation** of the Bruno Vehicle Lift.

Bruno Authorized Dealers are trained to evaluate your unique situation and then install the best Bruno product to meet your needs. The trained installation and service technicians employed by Bruno Authorized Dealers have the appropriate equipment and resources needed to correctly install and maintain your new vehicle lift and are the first contact for any warranty or service needs.

SPECIFICS OF THE WARRANTY COVERAGE:

- All parts are free of defects in material and workmanship for a period of three years after the date of installation.
- All labor to address any product defect by a Bruno Authorized Dealer is covered for the first 30 days after installation.

WHAT IS NOT WARRANTY COVERAGE:

- Damage to units caused by misuse, abuse, accidents, neglect or modifications NOT made by Bruno Authorized Dealer.
- Consumable items.
- All labor by a Bruno Authorized Dealer after the first 30 days since installation.
- Reasonable wear and tear.

ADDITIONAL NOTES:

All Service and Warranty issues are handled through the Bruno Authorized Dealer that installed the unit.

- In no event shall Bruno be responsible for indirect, incidental or consequential damages, whether such damages arise based on claims based on contract, warranty, tort (including negligence, strict liability or product liability).
- Bruno reserves the right to replace, repair or, if not commercially practical and/or feasible, to elect to refund the purchase price at its sole discretion.
- This warranty gives the original buyer specific legal rights, and you may also have other rights which vary from state to state. Bruno specifically does not authorize any person to extend the time or scope of this warranty.

For more detailed information regarding this limited warranty, please contact Bruno by writing:

Bruno Independent Living Aids, Inc. | Attn: Service Department | 1780 Executive Drive |
Oconomowoc, WI 53066 USA