

Ready Stand

(RS-3001)
(RS-3001S)

Operation Manual



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Note: The maintenance checklist located in the back of the manual should be photocopied and used to record your Ready Stand inspections.

Reminder:

Do not forget to complete and return the warranty card located in the back of the Ready Stand manual.

WARNINGS



DO NOT ATTEMPT TO SETUP OR OPERATE THE READY STAND WITHOUT THOROUGHLY REVIEWING THE CONTENTS OF THIS MANUAL! FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY, EQUIPMENT FAILURE, AND/OR VOID WARRANTY.

If you have any questions regarding the setup or operation of the Ready Stand, please contact:

AFFIX DEALER CONTACT
INFORMATION HERE

Or contact Barton Medical:
1-800-387-7103

**THE READY STAND FROM BARTON MEDICAL HAS BEEN INSPECTED TO C.S.A.
(CANADIAN STANDARDS ASSOCIATION) GUIDELINES.**

WARRANTY

Warranties are limited to manufacturer's defects and exclude the effects of normal wear and tear, unintended use, operator abuse, concussive impacts and external factors including exposure to heat lamps, vapours, chlorine and other corrosive substances. Barton Medicals' liability under warranties is limited to replacing defective parts and does not extend to consequential damages. Warranties are voided by unauthorized repairs or modifications to the equipment.

Structure

(includes structural frame)

Lifetime warranty. Does not include damage to enamel caused from wear and/or operator abuse.

Arm Grips, Safety Straps, Pads

Ninety day warranty against manufacturers defects.

All Other Components

All other components of the Ready Stand, including casters and Interchangeable Battery System have a one year warranty.

Please complete the warranty card and return it immediately to:

Canada/International:

Barton Medical Canada Inc.
5510 Mainway
Burlington, Ontario
L7L 6C4

United States:

Barton Medical Corporation
5725 Hwy 290 West, Suite 103
Austin TX
78735

Or Fax it to: 905-336-1708

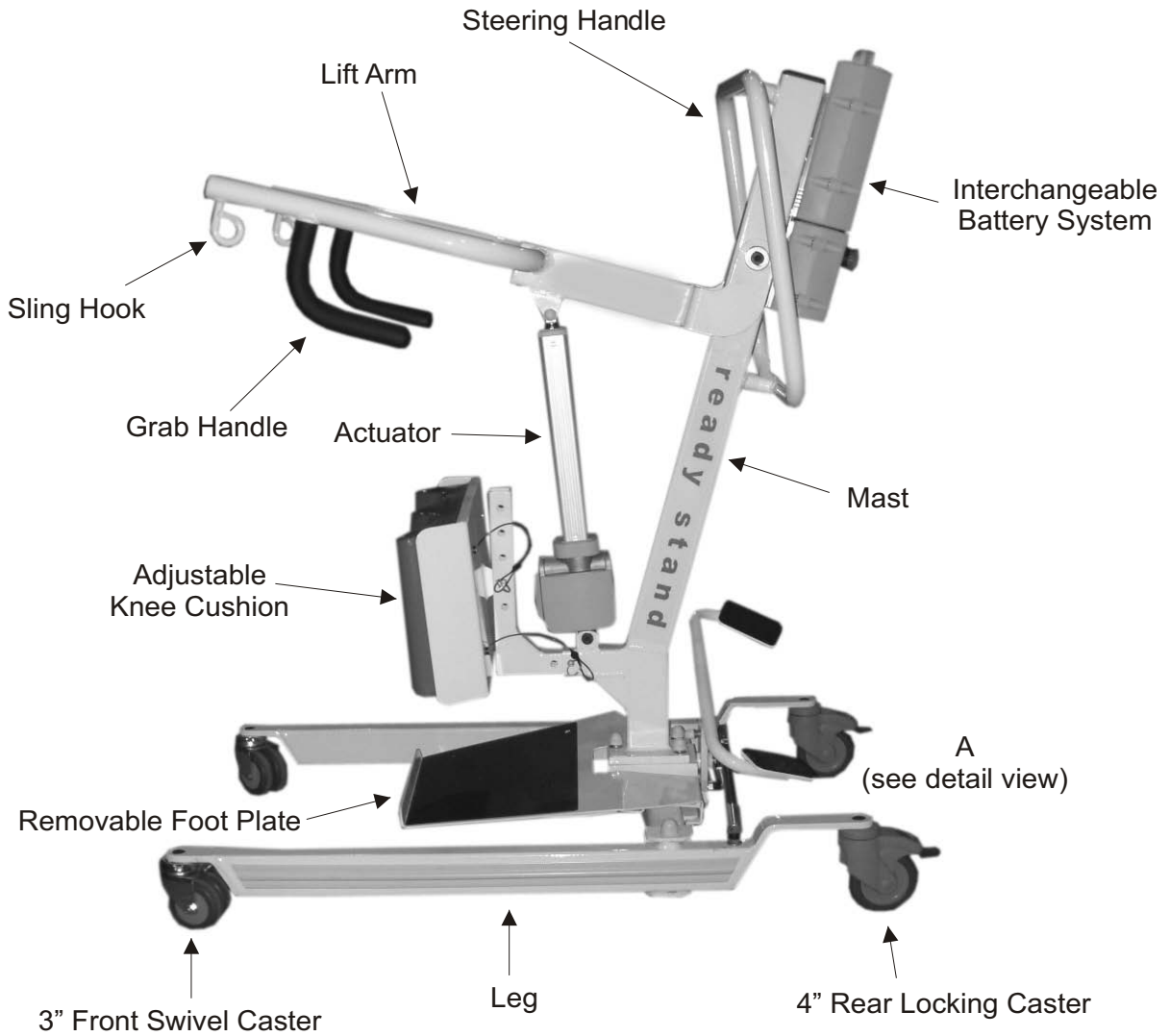
This manual contains operating, maintenance and service instructions for the Ready Stand. It is the user's responsibility to ensure the correct use of Ready Stand and coordinate the maintenance schedule to maintain good operating condition.

Barton Medical maintains a policy of continuous product improvement and reserves the right to change features, specifications and prices without prior notice.

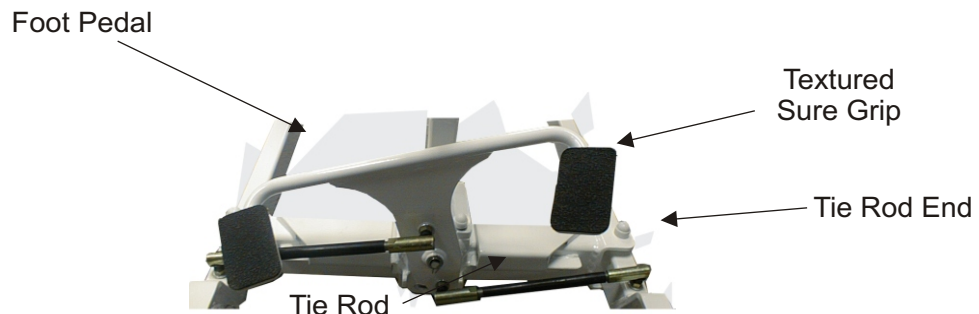
READY STAND SPECIFICATIONS

PRODUCT NUMBER:	RS-3001 RS-3001S (with scale)
OPERATION:	Electric Actuator
POWER SOURCE:	24 V (4.5 Amp)
BOOM, Highest Position (floor to hooks):	60" (152 cm)
BOOM, Lowest Position (floor to hooks):	37.75" (96 cm)
MAXIMUM CAPACITY:	500 lbs (227 kg)
OVERALL LENGTH:	41" (104 cm)
BASE/LEG WIDTH, Closed:	26" (66 cm) <i>(outside)</i>
BASE/LEG WIDTH, Open:	39.25" (99 cm) <i>(inside)</i>
FRONT CASTERS, Dual wheel:	3" (8 cm)
REAR CASTERS, Single w/brake:	4" (10 cm)
KNEE BRACKET (adjustable):	15 position (3 horizontal x 5 vertical)
OVERALL WEIGHT:	120 lbs (54.4 kg)
CONSTRUCTION:	Rectangular steel tubing
FINISH:	Polyester powder coat, baked
EMERGENCY STOP SWITCH:	Standard
EMERGENCY LOWERING SWITCH:	Standard
LOW BATTERY LEVEL LIGHT:	Standard
LOW BATTERY AUDIBLE INDICATOR:	Standard
ELECTRIC HAND CONTROL:	Standard
BATTERY CHARGING	
(on unit or at remote location):	Standard
CHARGING TIME (FROM EMPTY):	9 hours (4.5 Amp battery with 500ma charging)
LIFTS PER CHARGE (under maximum load):	36 Cycles

READY STAND OVERVIEW



VIEW A Detailed View of Foot Pedal Assembly



ASSEMBLY

1. Without using a knife, open the carton and remove the packaging that secures the stand in the box. When removing the mast be careful! **The lifting arm and actuator are fastened to the mast.**
2. Once all the parts have been removed from the carton, use the checklist provided to ensure you have all the components that make up the Ready Stand. If there is a discrepancy, please call your supplier or Barton Medical at **1-800-387-7103**.
3. Place the base on the floor and lock the rear casters to prevent movement while assembling. Remove the three hex head bolts and plastic caps from the center of the base.
4. Position the mast over the corresponding holes in the base with the angle in the mast tilting away from the stand and the actuator positioned between the legs of the lift.
5. Tighten all three bolts to 15-20 ft. lbs. and replace the white caps over the bolt heads.
6. Remove the pivot bolt from the top of the mast (approx. 11" from top) and position the lifting arm on both sides of the mast. Slip one nylon washer on both sides of the mast, between the lifting arm and the sides of the mast. Insert bolt and secure with nylock nut and washer.
7. Remove the bolt from the top clevis and position the actuator between the clevis. Insert the buttite sleeve and hex bolt. Tighten nut so the bolt clears the end of the nut.
8. Place the footrest with the anti-slip side facing upwards and nearest you. While standing between the open legs, push the rear of the plate over the cross member tilting the end nearest you upwards until the plate drops into position. Release.
9. Remove the electronics box and the battery pack from the small parts box.
10. Mount the electronics pack on the back of the Ready Stand mast using the two machine screws (already attached to the mast).
11. Remove the battery pack from the small parts box and place it onto the electronics pack (see *Placing and Removing the Battery Pack* on page 16).
12. Take the plug end from the actuator and connect it to the actuator port on the bottom of the electronics pack (see *Electronics Pack Bottom View* on page 13).
13. Test the emergency stop button by depressing it. Using the hand control (it is attached to the electronics pack during shipping) push the up and down buttons. The stand should be inoperable. Disengage the emergency stop by turning it in the direction of the arrows (clockwise). Push the up and down buttons on the hand control. The lift arm should now operate up and down.

Please note: The Ready Stand with Scale is shipped assembled.

OPERATION

CHARGE YOUR READY STAND EVERY NIGHT USING THE CHARGER PROVIDED.

1. The Ready Stand should not be operated (more than two lifts) when the battery level indicator begins to flash yellow. Be sure to charge as soon as possible. Extended use of the battery pack when the low battery indicator is flashing may permanently affect the capacity of the batteries in the pack.
2. The battery pack should be charged while on the stand. Plug the charger into the charging port on the bottom of the electronics pack (see *Electronics Pack Bottom View* on page 13).
3. The battery pack may also be charged using a separate wall-mounted charging station (optional). The battery pack is simply removed from the lift (see *Placing and Removing the Battery Pack* on page 16) and placed onto the charging station. Charging begins automatically. (*Note: The charger remains plugged into the charging station*).
4. The battery charger provided with the Ready Stand is automatic (when plugged in, it begins to charge automatically and shuts off when charging is completed). When charging, the yellow LED on the electronics pack (or optional charging station) indicates that the battery is charging. When the LED on the electronics pack (or optional charging station) turns green, the battery is fully charged. **There is no danger of overcharging the batteries.**
5. The **hand control** is electric and controls the raising and lowering of the lift arm. To raise the lift arm, simply press the up button on the hand control. To lower the lift arm, press the down button (see *Hand Control Overview* on page 13).
6. There is an **emergency lowering switch** located on the bottom of the electronics pack (see *Electronics Pack Bottom View* on page 13). This will enable the lift arm to be lowered in the event the hand control should fail or the electronics malfunction. If there is a malfunction do not use this lowering method on a continuous basis. The problem should be corrected by qualified service personnel.
7. There is an **emergency stop button** located on the front of the electronics pack (see *Electronics Pack Overview* on page 13). This will cut power to the motor in case of a malfunction. Push the button to cut power to system. Turn the button in the direction of the arrows (clockwise) to reactivate power to the system.
8. Examine belts regularly. **Never** use belts that are torn or are showing signs of wear. Replace belts immediately to ensure the safety of your patients.
9. We strongly recommend that you have your Ready Stand inspected and tested by qualified service personnel at least once a year. Service contracts can be arranged through Barton or your local Barton dealer.

GENERAL TRANSFERS

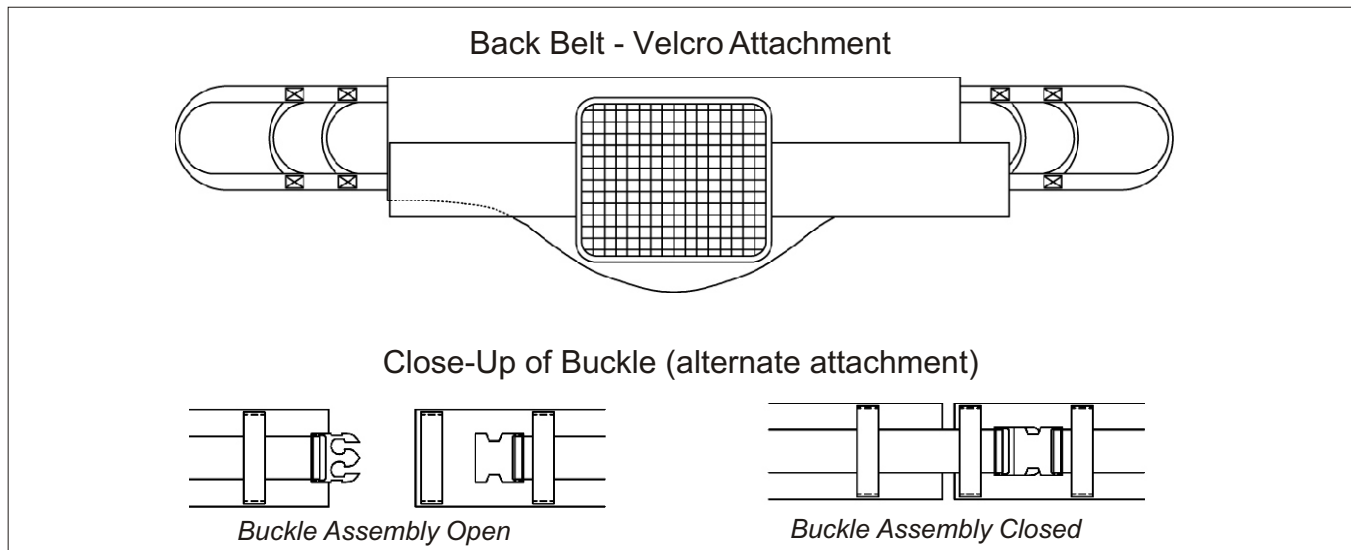
1. Place the Back Belt behind the user being raised. Be careful to place the Back Belt low on the back, with the “care” label facing outward. (If the user is in a wheelchair, be sure the chair is locked).
2. Adjust the chest band size so that the band fits snugly, but not too tight. Do not over tighten; the band should be comfortably firm. **Please refer to the Back Belt instruction manual for illustrated instructions.**
3. While standing along side the Ready Stand, bring it toward the user, stopping to place their feet on the footrest. If the base of the Ready Stand is too narrow to easily straddle the chair, widen the base by using the foot pedal located on the back of the Ready Stand. Using your foot, press down on the right side of the foot pedal to open the legs. Push down on the left side to return the legs to the closed position.
4. Move the Ready Stand toward the user until there is a space about 3-5 inches between the kneepad and their knees. Lock the rear castors on the Ready Stand.
5. Attach the Back Belt loops to the “curled” hook located on either side of the Ready Stand arms. The loops should be connected to allow as little slack in the belt as possible.
6. Standing along side the user, take the electric hand control and press the “UP” arrow, lifting the user. (Note: It is useful for the operator to place their free hand at center top of Back Belt, helping to keep it from shifting during the early phase of the lift.)
7. Continue allowing the machine to “stand” the user, until desired height is achieved.
8. If the user is to be moved, release the brakes and move Ready Stand to next location.
9. Roll the user backward toward chair/bed/toilet until the back of their calves touch object.
10. Press the “DOWN” arrow and allow the Ready Stand to lower the user. Under normal operating conditions, the brakes would not be engaged during this process to permit the machine to comfortably roll away. **HOWEVER, when lowering a more dependent user on to a bed, brakes should be locked before lowering is initiated.**
11. When the user has been completely lowered, detach the loops of the Back Belt and move the Ready Stand away.
12. Unfasten the safety band and remove the Back Belt from behind the user.

TOILETING AND CHANGING UNDERGARMENTS

The Ready Stand is the preferred tool to assist in toileting or changing soiled undergarments of those users who cannot safely support their own weight during these procedures.

1. Attach the Back Belt in the usual fashion and raise the user to a standing position. **Please refer to the Back Belt instruction manual for illustrated instructions.**
2. Transport the user to a bathroom or other appropriate area. If you are changing an undergarment, it is often preferable to have the user in a “semi-sit” when removing the “diaper” and cleaning the perineal area.
3. Lower the trousers or raise the dress. Lower the user onto the toilet or remove their “diaper”. **Note: It is not necessary to remove the lifting belt when someone is using the toilet or commode.** Simply detach the belt from the Ready Stand and allow them to function normally. When they have finished, reattach the Back Belt to the Ready Stand and return the user to a standing position. Clean the user where necessary and redress the user.
4. Return the user to their chair or bed in the normal fashion.

BACK BELT OVERVIEW



Use of the Sling

The back belt is used with sit-to-stand lifts. Its purposes are:

- Raising from or lowering to a sitting position.
- Transfers between bed, chair, wheelchair, commode, toilet and bathtub.
- Toileting and bathing in a side or front loading tub.
- Providing a safety harness during rehab exercises, such as weight bearing, gait, retraining and muscle and tendon stretching

The back belt is suitable for use by persons who have been assessed for a sit-to-stand lifting device.

Sling Options

The back belt is a padded tricort-and-foam belt, equipped with an anti-slip pad and either a seatbelt buckle or Velcro back band. Other materials, for comfort or infection control, are available custom. Large users sometimes prefer an additional buckle. The standard belt accommodates waist sizes of 27 to 58 inches. Other sizes can be supplied upon request.

Color Coding

The loops on the back straps are color-coded:

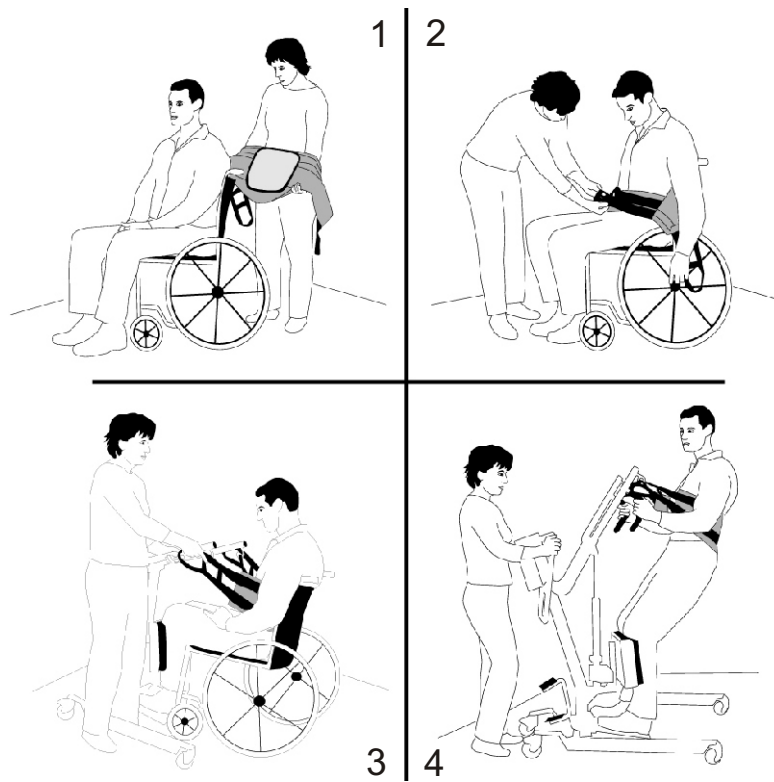
- Black for the long loop
- Grey for the middle loop
- Purple for the short loop

The purpose is to achieve level loading by attaching loops with matching colors on either side. Alternative color-coding schemes to accommodate existing patient care-chart practices can be supplied.

LOADING WITH THE BACK BELT

The back belt should always be loaded with the user in the sitting position. If the user is seated in a wheelchair, make sure that the wheelchair is in a locked position before proceeding.

1. Stand behind, or to the side of, the user and hold the sling with the anti-slip pad facing the user's back. Place the back band around the user's lower back and bring the flaps forward underneath the user's arms.
2. Move to the front of the user and fasten the back band comfortably firm.
3. Bring the sit-to-stand device to its lowest position and attach the straps of the belt to the belt hooks.
4. Select loops that are appropriate to the user's size and seated posture. For example, if the user is seated in a lounge chair, the long loops provide additional reach. For large users, the long loops provide additional clearance in the upright position. If the user wears a seatbelt, unbuckle it now. As you begin lifting, check to see that the straps are securely attached and that the user gains a firm foothold.



BACK BELT CARE

The body of the back belt is made of quick-dry, heat set and flame retardant polyester. The straps are high-strength nylon webbing. The padding is closed-cell polyethylene foam. There is no latex in Barton slings or belts. While the materials comply with applicable standards for strength, shrinkage and flammability, belts are subject to wear and tear, which increases with usage. **Before each use check for fraying or cuts/tears in the straps and body of the belt.** Belts that show wear or damage should be taken out of service.

Warranty

The life of a belt, like that of any garment, depends on the manner and frequency of its use and laundering. Barton belts have a one year warranty. In normal institutional use, it is good practice to replace belts annually.

WASHING INSTRUCTIONS



Barton slings and belts are of sturdy design, but the particulars of their construction call for specific laundry treatment:

- Machine wash at normal setting and at 140F/60C. Depending on the washing machine, this usually means on a medium temperature setting.
- Always use a laundry bag when washing a sling or belt in a top-loading washing machine. If washed loose, the thicker portions of the sling or belt may get trapped underneath the agitator, which will lead to marking and tearing.
- Don't use chlorine bleach or detergents containing such substances.
- Line drying is best. Tumble-drying at a normal setting and the lowest temperature also gives good results.
- Don't dry clean.
- Don't iron.

The most common causes of laundering damage to slings and belts are ***the machine-washing in a top-loader without a laundry bag and machine drying at high temperatures.*** Overloading a dryer, even at medium temperatures, may expose fabric directly to hot spots caused by the heating element just outside the drum.

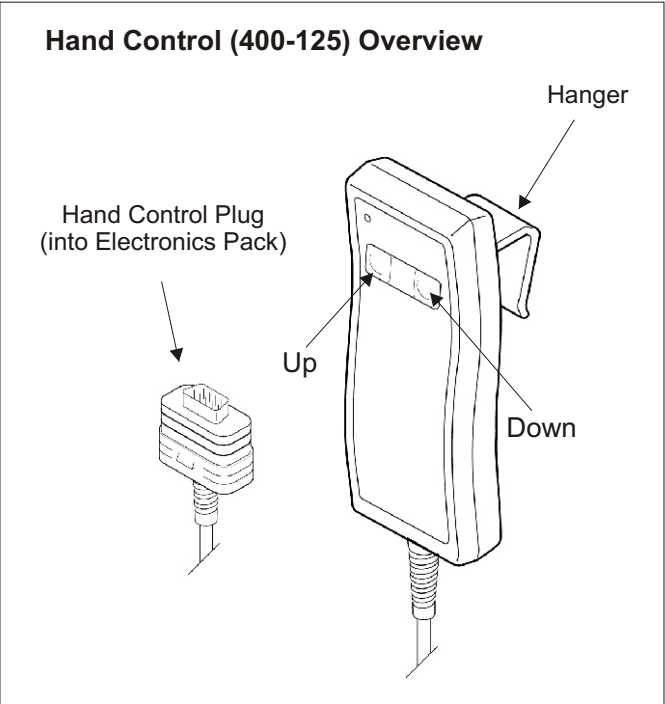
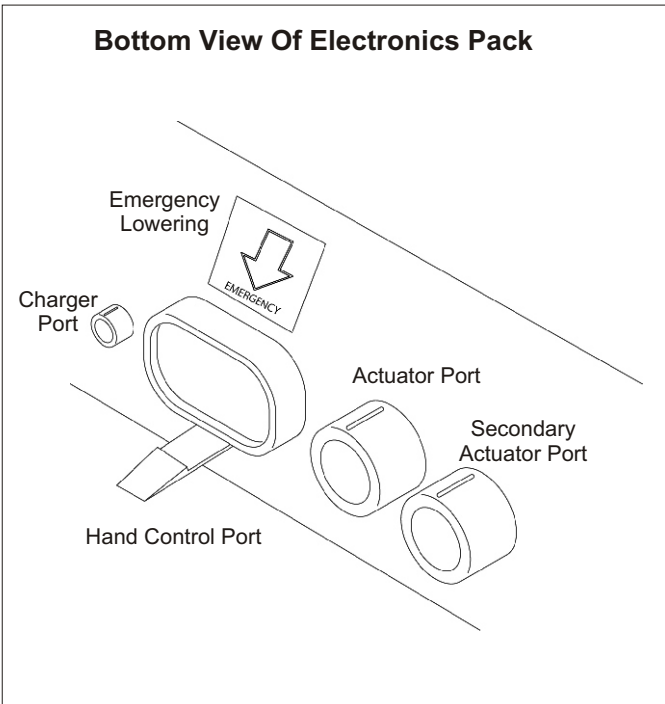
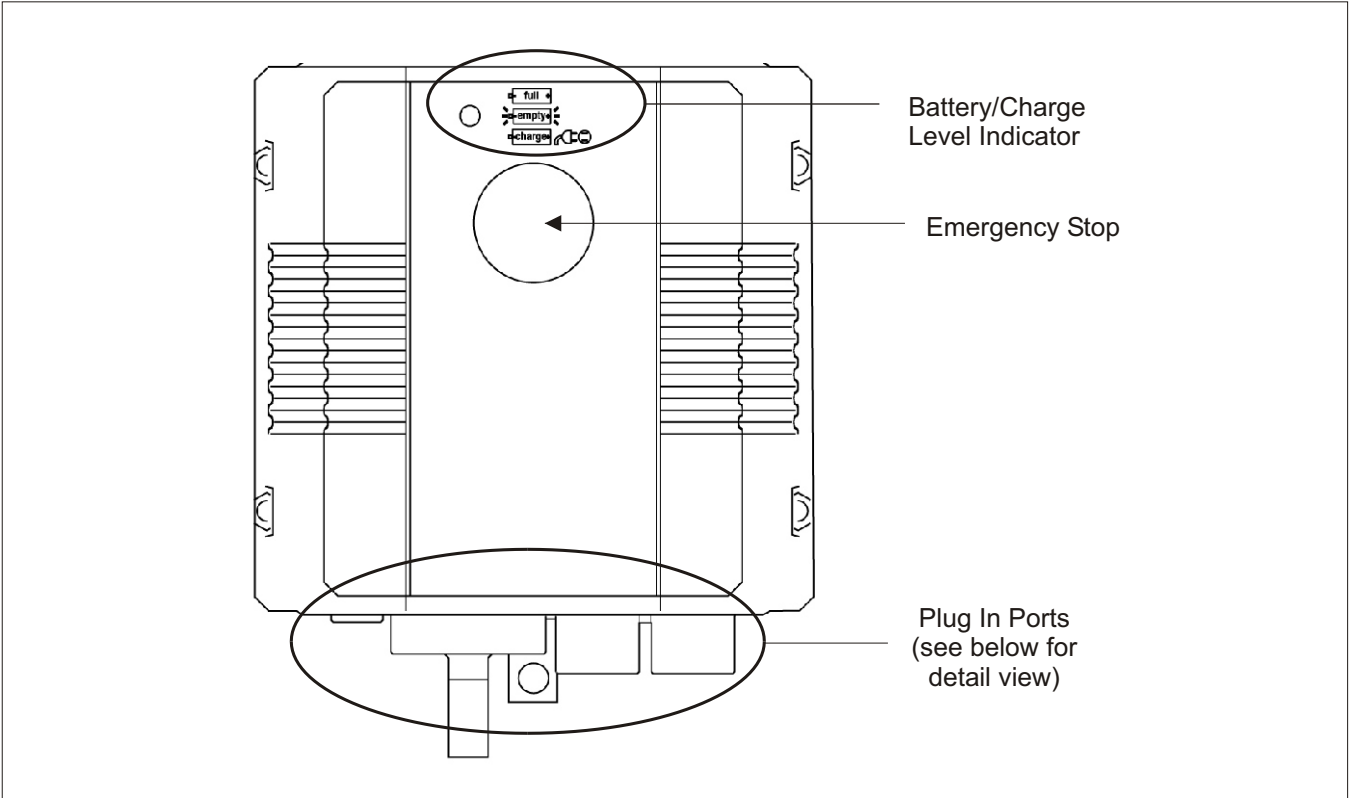
GAIT TRAINING

Remove the footplate of the Ready Stand by lifting upwards from the front of the plate and tilting it rearward to slide it out of its notched location.

1. Place the back belt sling around the user in the normal fashion and secure the safety band. **Please refer to the Back Belt Sling instruction manual for illustrated instructions.**
2. Bring the Ready Stand up to the user's knees, lock the brakes and attach the back belt to the Ready Stand.
3. Press the "UP" button on the hand controls, keeping some pressure on the top of the back belt to help it remain properly positioned. Continue lifting until the user is upright. Return the hand control to the unit.
4. Place the user's hands on the center portion of the lifting arms. Move to the back of the stand and hold the Ready Stand steady as you disengage the brakes.
5. With the operator maintaining contact and standing either behind or astride the machine, allow the user to assume a normal gait.
6. When the training has been completed, return the user to a chair as you normally would, detach the back belt sling from the Ready Stand and move the Ready Stand away.
7. Remove the back belt sling from the user.
8. Replace the footplate on the Ready Stand by tilting it forward into its slots and lowering the front of the plate.

It is highly recommended that two caregivers conduct this exercise: one to control the lifter and the other to walk behind the user with a chair.

INTERCHANGEABLE BATTERY SYSTEM OVERVIEW



INTERCHANGEABLE BATTERY SYSTEM

1. It is highly recommended that the batteries be fully charged on a daily basis. This action will greatly extend the life to the battery.
2. The **Battery Pack** may be charged while on the lift by inserting the charger plug into the charger port on the bottom of the **Electronics Pack** (see *Electronics Pack Bottom View* on page 13). This is the recommended method of charging.
3. The **Battery Pack** may also be charged using a separate wall-mounted charging station (optional). The charger is plugged into the charging station. The Battery is removed from the Ready Stand (see *Placing and Removing the Battery Pack* on page 16) and placed into the charging station.
4. The **LED Battery Level Indicator** on the front of the electronics pack (see *Interchangeable Battery System Overview* on page 13) indicates the battery charge level. When the yellow light begins to flash, it indicates that the battery requires charging. In addition to the LED, an audible signal (beep) sounds when the battery level is low and in need of a charge. Please note, even on low battery power, the Ready Stand can still be safely operated two more times before recharging.

When charging the battery, the yellow light will illuminate, indicating the battery is charging. When the yellow light changes to green, the battery is fully charged.

5. The **Electric Hand Control** operates the raising and lowering of the lift arm assembly. The hand control should remain connected to the electronics pack. Should you find it necessary to remove the hand control, unplug it from the hand control port on the bottom of the electronics pack (see *Electronics Pack Bottom View* on page 13). There is a plastic tab that locks the hand control in place. Remember to push the tab clear of the plug before disconnecting the hand control.
6. There is a **red Emergency Stop Switch** located on the front of the electronics pack. This will disable the lift in case of a malfunction with the electronics. Push the red button to shut off power to the lifter. Turn the red button in the direction of the arrows (clockwise) to return power to the lifter.
7. The **Emergency Lowering** switch ensures that the lifter can be lowered safely should the hand control malfunction. The emergency lowering switch is a yellow membrane switch, located on the bottom of the electronics pack (see *Electronics Pack Bottom View* on page 13).

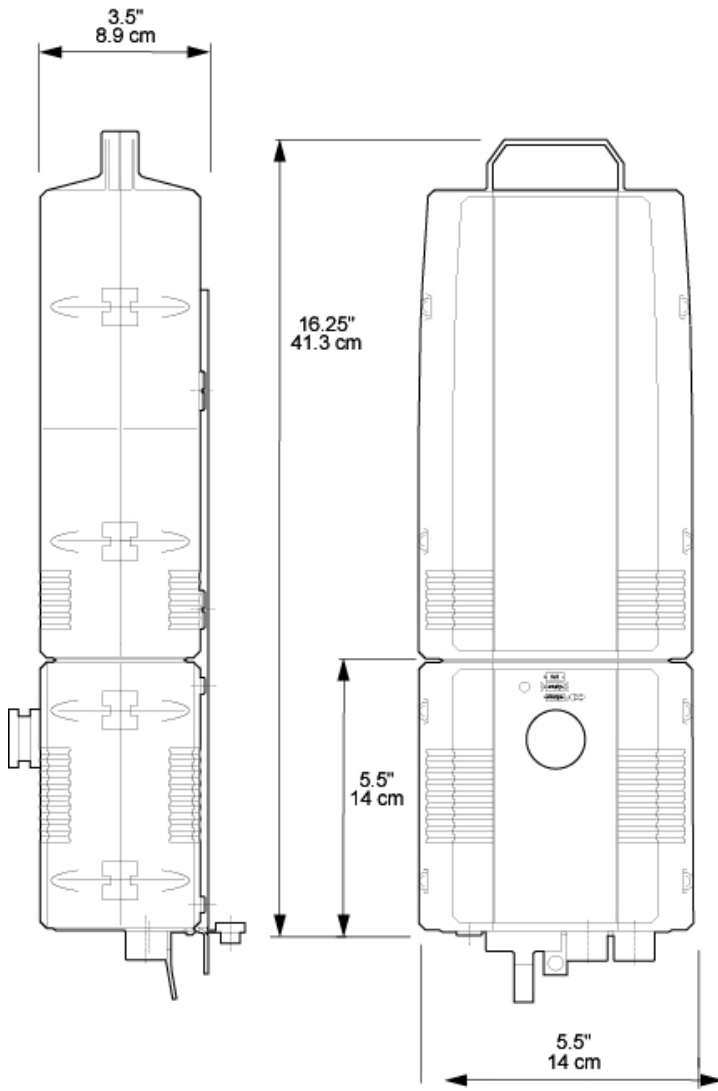
IBS TECHNICAL DATA

IBS-130 Complete System

(Includes Battery, Electronics Pack, Hand Control and Charger)

Individual Components of IBS-130

Charger	(400-141)
Battery Pack	(400-155)
Electronics Pack	(400-143)
Hand Control	(400-125)



Control Unit

Voltage (actuator):	24V - DC (max 6.3A)
Operating element:	Hand control
AC Adaptor:	28V 500mA
Weight:	0.9 Kg (2 lbs)

Battery

Voltage:	24V - DC
Capacity:	4.5 Ah
Weight:	4 kg (8.8 lbs)

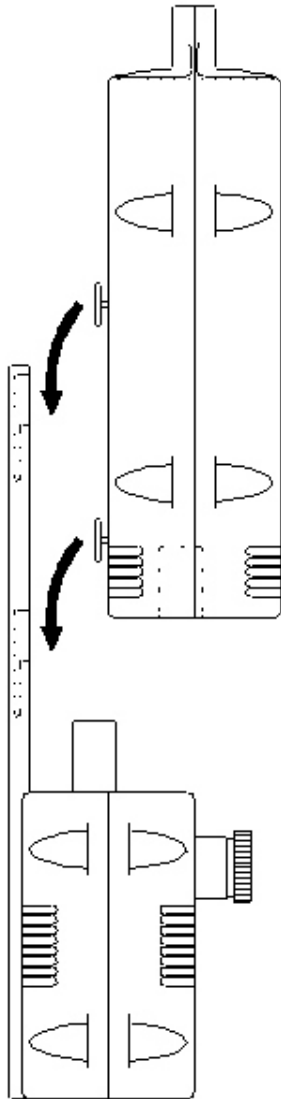
AC Adaptor

Voltage/frequency:	120/60 V/Hz
Power input:	16 VA
Insulation class:	II/B

System

Charging Time (<i>from empty</i>):	9 hours
Lifts Per Charge (<i>max. load</i>):	36 Cycles
Protection class:	IPx4
Weight:	4.9 kg (10.8 lbs)

PLACING AND REMOVING THE BATTERY PACK



Placing the Battery Pack on the Lift

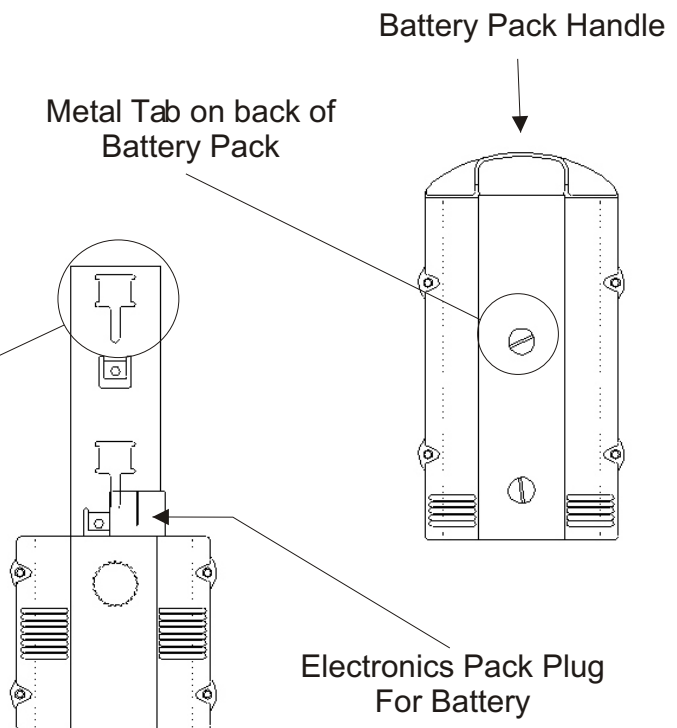
To place the battery on the electronics pack, hold the battery pack by the top handle and place your other hand on the side of the pack.

Position the metal tabs on the back of the battery pack into the metal slots on the electronics pack mounting bracket. Once in position, push the battery pack down, so the plug on the electronics pack sits in the battery pack.

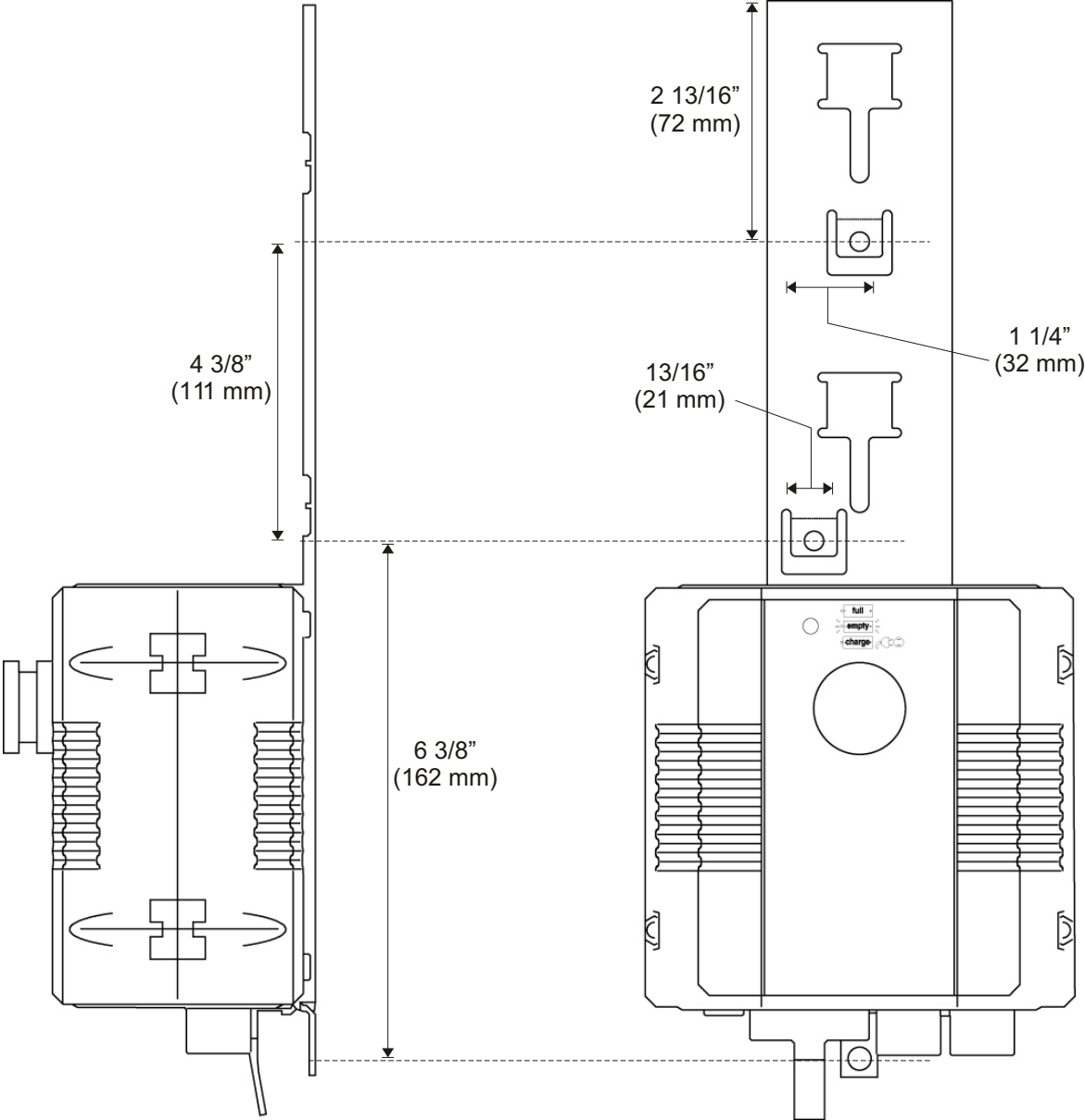
Removing the Battery Pack from the Lift

To remove the battery pack, grab the battery pack handle on the top of the pack and place your other hand on the side of the pack. Lift the pack up so it clears the plug on the electronics pack. Once clear of the plug, pull the pack away from the slots on the electronics pack mounting frame.

Metal Slot on Electronics Pack Mounting Frame. Metal Tab on Battery Pack sits inside.



INSTALLING THE CHARGING STATION (400-157)



The above schematic shows the location of all of the mounting holes.

The wall mounted charging station should be fastened to the wall using 1/4" screws with the appropriate wall anchors (will vary depending on your facility's wall structure).

READY STAND SCALE (OPTIONAL)



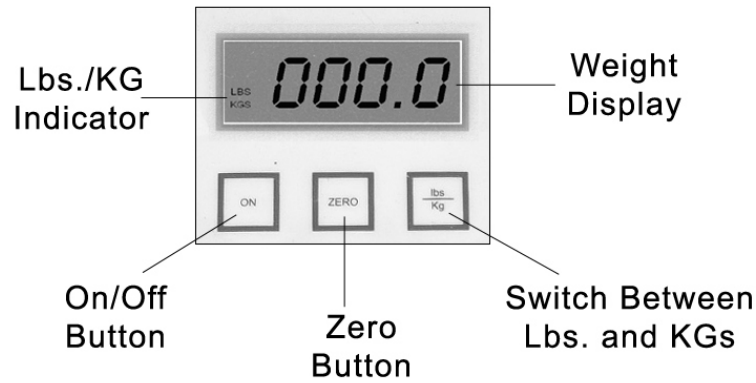
Side View



Top View



Scale Controls



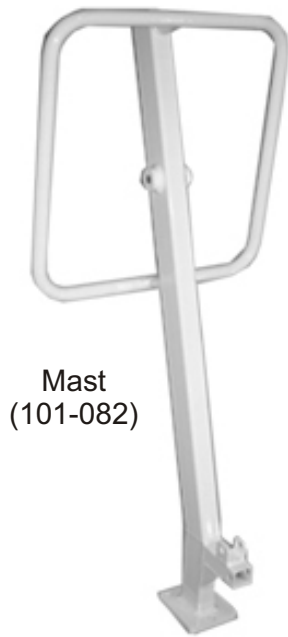
SCALE OPERATION (OPTIONAL)

To weigh a patient:

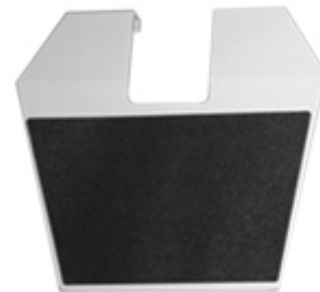
1. Put the footplate in place on the ready stand.
2. Hang the appropriate belt on the lift arm hooks, ensuring the belt does not touch the floor.
2. Push the **ON** button to power the scale. There will be a display of 0-0-0-0 across the window. The scale should automatically stop on zero (0.0). If not, push the **ZERO** button to achieve zero weight.
3. Once the scale has been zeroed, place the patient on the stand and lift them using the proper procedure as laid out in the Operating Procedure of this manual. The weight will be displayed. If the patient is moving, the displayed weight will fluctuate. Once the patient is steady, the displayed weight will settle.
4. Choose weight display in kilograms or pounds by pushing the **KG/LB** switch.
5. The display of weight will disappear after approximately 1 minute. Should the display disappear before you have observed it, simply push the **ON** button to display again.

DO NOT PUSH THE "ZERO" BUTTON AGAIN UNTIL YOUR NEXT PATIENT

READY STAND - MAJOR COMPONENTS

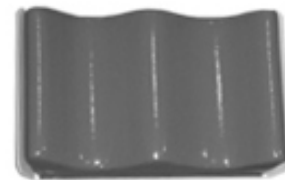


Foot Plate (101-066)
Tread (100-196)



Main Frame
(101-080)

Knee Cushion (101-757)
Knee Cushion Plate (101-044)
(see detail view)



Foot Pedal
(101-065)

1/2" x 3 1/2"
Shoulder Bolt
(100-021)



Tie Rod Assembly
(see detail view)



Leg
(101-073)

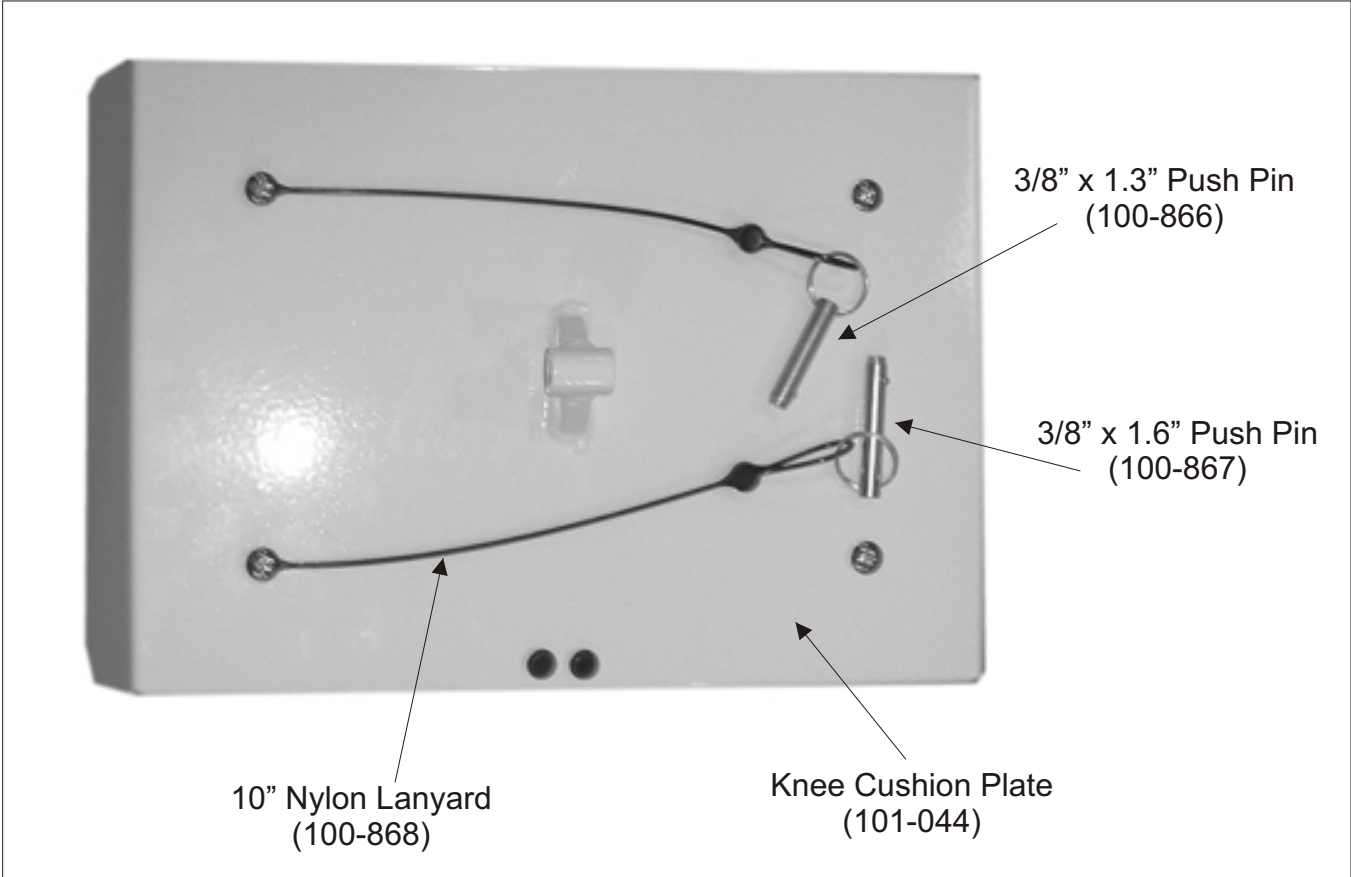
3" Swivel Caster
(100-012)

4" Locking Caster
(100-010)

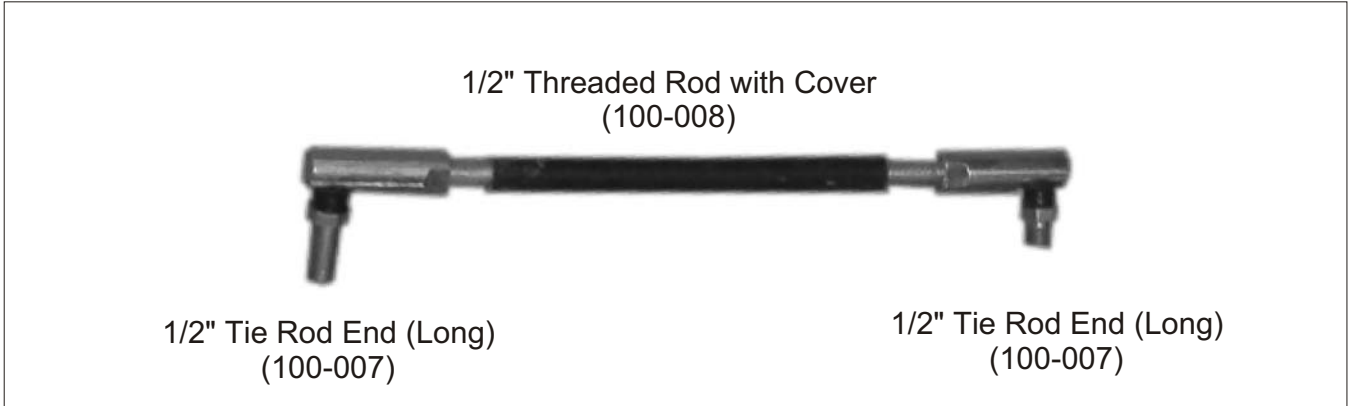


Knee Pad Bracket
(101-071)

KNEE CUSHION - DETAIL VIEW



TIE ROD ASSEMBLY - DETAIL VIEW



MAINTENANCE

The following is a checklist of the areas of the READY STAND that should be inspected on a regular basis. It is recommended to inspect the lift monthly. This will depend on frequency of use. Any part which appears worn or wearing should be replaced immediately for safety of caregiver and patient.

RAISING ARM

DATE

PIVOT BOLT

HANDGRIPS

SLING HOOKS

PAINT (CHECK FOR SCRATCHES, RUST)

BASE ASSEMBLY

LEG WIDENING MECHANISM

TIE RODS

CASTERS

PAINT (CHECK FOR SCRATCHES, RUST)

ELECTRIC ASSEMBLY

RAISES AND LOWERS SMOOTHLY

HAND CONTROL

BATTERIES

ACTUATOR CABLE

BELTS

CHECK FOR WEAR, FRAYS, CUTS OR TEARS

TROUBLESHOOTING

- 1. Ready Stand will not operate in either direction:**
 - ensure the actuator (motor) is plugged in and secure
 - emergency switch is turned off (turn button clockwise)
 - check battery level indicator
 - ensure the hand control is connected to the electronics pack
 - check for cuts in the hand control wire

- 2. Lift arm operates in "UP" position only:**
 - small switch at the base of the actuator is engaged. To disengage, lift up on actuator and lift arm. This switch should ride on the bolt which secures the bottom of the actuator to the lift
 - hand control is damaged. Check 'UP' button for damage

- 3. Lift arm does not lower by hand control but "EMERGENCY LOWERING" is operable.**
 - hand control is damaged

- 4. Lift arm will not raise with patient but will lower.**
 - battery needs charging, check battery level indicator, charge battery
 - patient is heavier than capacity of lifter

- 5. Lift arm operates but very slowly.**
 - battery needs charging, check battery level indicator, charge battery

- 6. Ready Stand legs open and close easily and/or when moving.**
 - ball plunger has loosened. Tighten with slotted screwdriver.

Please fill out the warranty card and return it to:

United States:

Barton Medical Corporation
5725 Hwy 290 West, Suite 103
Austin TX
78735

Canada/International:

Barton Medical Canada
5510 Mainway
Burlington, Ontario
L7L 6C4

**Or fax it to:
(905)-336-1708**

Failure to return this card may void warranty. Please keep a copy for your own records.

Barton Medical Warranty Card

Name: _____

Address: _____

Phone: _____ Fax: _____

Product: _____ Serial #: _____

Date of Purchase: _____ Date of Installation: _____

Was your product installed by Barton Medical or a Barton agent? _____

If no, please specify (name/address): _____

Was your product received in good condition? _____

Signature: _____ (please print name): _____

By returning this card, I acknowledge receiving the aforementioned product in good working order and physical appearance. Any errors made during installation or unpacking of the aforementioned product, if installed or unpacked by a party other than Barton Medical or a Barton appointed agent, shall be the responsibility of the customer and will not be covered under the warranty.

BARTON™
MEDICAL CORPORATION