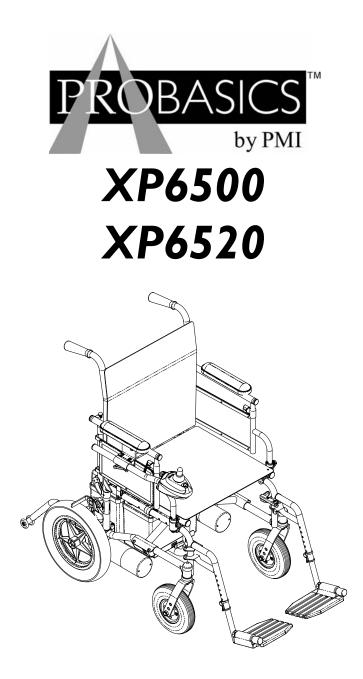
Owner's Operator and Maintenance Manual



DEALER: This manual MUST be given to the user of the wheelchair.

USER: BEFORE using this wheelchair, read this manual and save for future reference.

DO NOT OPERATE THIS EQUIPMENT WITHOUT FIRST READING AND UNDERSTANDING THIS MANUAL. IF YOU ARE UNABLE TO UNDERSTAND THE WARNINGS, CAUTIONS, AND INSTRUCTIONS, CONTACT A HEALTHCARE PROFESSIONAL, DEALER OR TECHNICAL PERSONNEL IF APPLICABLE BEFORE ATTEMPTING TO USE THIS EQUIPMENT - OTHERWISE INJURY OR DAMAGE MAY RESULT.

THE INITIAL SET UP OF THIS WHEELCHAIR MUST BE PERFORMED BY A QUALIFIED TECHNICIAN.

PROCEDURES OTHER THAN THOSE DESCRIBED IN THIS MANUAL MUST BE PERFORMED BY A QUALIFIED TECHNICIAN.

DEALERS AND QUALIFIED TECHNICIANS: DO NOT SERVICE OR OPERATE THIS EQUIPMENT WITHOUT FIRST READING AND UNDERSTANDING (I) THE OWNER'S OPERATOR AND MAINTENANCE MANUAL, (2) THE SERVICE MANUAL (IF APPLICABLE) AND (3) THE SEATING SYSTEM'S MANUAL (IF APPLICABLE). IF YOU ARE UNABLE TO UNDERSTAND THE WARNINGS, CAUTIONS AND INSTRUCTIONS, CONTACT PROBASICS TECHNICAL SUPPORT BEFORE ATTEMPTING TO SERVICE OR OPERATE THIS EQUIPMENT - OTHERWISE, INJURY OR DAMAGE MAY RESULT.

TABLE OF CONTENTS

SPECIAL NOTES	6
TYPICAL PRODUCT PARAMETERS	
LABEL LOCATIONS	9
SECTION I-GENERAL GUIDELINES	
Controller Settings/Repair or Service	
Operating Information	
Tire Pressure	
Electrical Accessories	12
Batteries	12
Charging Batteries	
Grounding Instructions	
Rain Test	
Weight Training	15
Weight Limitation	
SECTION 2-EMI INFORMATION	
SECTION 3—SAFETY/HANDLING OF WHEELCHAIRS	
Stability and Balance	
Coping With Everyday Obstacles	
A Note to Wheelchair Assistants	
Tipping	
Tipping - Curbs	
Lifting/Stairways	20
Transferring to and From Other Seats	21
Percentage of Weight Distribution	22
Reaching, Leaning and Bending - Forward	22
Reaching and Bending - Backward	23
SECTION 4—SAFETY INSPECTION/TROUBLESHOOTII	NG24
Safety Inspection Checklists	24
Inspect/Adjust Initially	
Inspect/Adjust Weekly	
Inspect/Adjust Monthly Inspect/Adjust Periodically	
Troubleshooting - Mechanical	
Troubleshooting Guide	
Checking Battery Charge Level	



TABLE OF CONTENTS

SECTION 5—WHEELCHAIR OPERATION	
Joystick Switches and Indicators	
Multi Function Charger Port	
On/Off Toggle Switch	
Speed Control switch Joystick	
Information Gauge Display	
Operating the Wheelchair	
Turning the Power On/Off	
Using the Horn	
Using the Joystick to Drive the Chair	
SECTION 6—FRONT RIGGINGS	
Installing/Removing/Using the Footrest/Legrest	
Installing	
Removing Using	
Adjusting the Footrest Height	
Replacing the Heel Loop	
Raising/Lowering the Legrest Assembly	
SECTION 7—ARMS	
Adjusting Armrest Height	
Swing-Back Arms	
Replacing Armrest Pad	
SECTION 8—SEAT AND BACK	
Replacing the Seat Upholstery	
Replacing the Back Upholstery	
Adjusting the Back Height	41
Replacing Seat Positioning Strap	42
SECTION 9—JOYSTICK	
Preparing the Joystick for Use	43
Repositioning the Joystick	44
SECTION IO—CASTERS	
Adjusting Forks	45

TABLE OF CONTENTS

SECTION II-BATTERIES	
When to Charge Batteries	46
Charging Batteries	47
Description and Use of Battery Chargers Connecting the Battery Charger	
Replacing the Batteries	48
Recommended Battery Types Cleaning Battery Terminals	
Removing/Installing the Battery Boxes	49
Installing/Removing Battery Tray Installing/Removing Batteries Into/From Battery Boxes	
Connecting Battery Cables	52
Replacing Battery Box Retaining Strap	54
SECTION 12-CLUTCH/MOTOR LOCK	
Engaging/Disengaging the Clutches	56
SECTION 13-WHEEL LOCKS	
Installing/Adjusting/Using the Wheel Locks	57
Installing/Adjusting Using	
SECTION 14—ANTI-TIPPERS	
Installing/Removing/Adjusting Anti-Tippers	
Installing	
Removing	
Adjusting Height	
SECTION 15-TRANSPORTING	61
Transporting the Wheelchair	61
Unfolding/Folding the Wheelchair	
Unfolding Folding	
LIMITED WARRANTY	



SPECIAL NOTES

Signal words are used in this manual and apply to hazards or unsafe practices which could result in personal injury or property damage. Refer to the table below for definitions of the signal words.

SIGNAL WORD	MEANING
DANGER	Danger indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
WARNING	Warning indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
CAUTION	Caution indicates a potentially hazardous situation which, if not avoided, may result in property damage.

NOTICE

THE INFORMATION CONTAINED IN THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE.

WHEELCHAIR USER

As a manufacturer of wheelchairs, ProBasics endeavors to supply a wide variety of wheelchairs to meet many needs of the end user. However, final selection of the type of wheelchair to be used by an individual rests solely with the user and his/her healthcare professional capable of making such a selection.

WHEELCHAIR TIE-DOWN RESTRAINTS AND SEAT RESTRAINTS

Wheelchair users should NOT be transported in vehicles of any kind while in wheelchairs. As of this date, the Department of Transportation has not approved any tie-down systems for transportation of a user while in a wheelchair, in a moving vehicle of any type.

It is **ProBasics'** position that users of wheelchairs should be transferred into appropriate seating in vehicles for transportation and use be made of the restraints made available by the auto industry. Invacare cannot and does not recommend any wheelchair transportation systems.

With regard to restraints - seat/chest positioning straps - it is the obligation of the DME dealer, therapists and other healthcare professionals to determine if a seating positioning strap is required to ensure the safe operation of this equipment by the user. Serious injury can occur in the event of a fall from a wheelchair.

ProBasics products are specifically designed and manufactured for use in conjunction with ProBasics accessories. Accessories designed by other manufacturers have not been tested by ProBasics and are not recommended for use with ProBasics products.

Wheelchairs should be examined during maintenance for signs of corrosion (water exposure, incontinence, etc.). Electrical components damaged by corrosion should be replaced IMMEDIATELY.

Wheelchairs tat are used by incontinent users and/or are frequently exposed to water may require replacement of electrical components more frequently.

The seat positioning strap is a positioning belt only. It is not designed for use as a safety device withstanding high stress loads such as auto or aircraft safety belts. If signs of wear appear, belt MUST be replaced immediately.



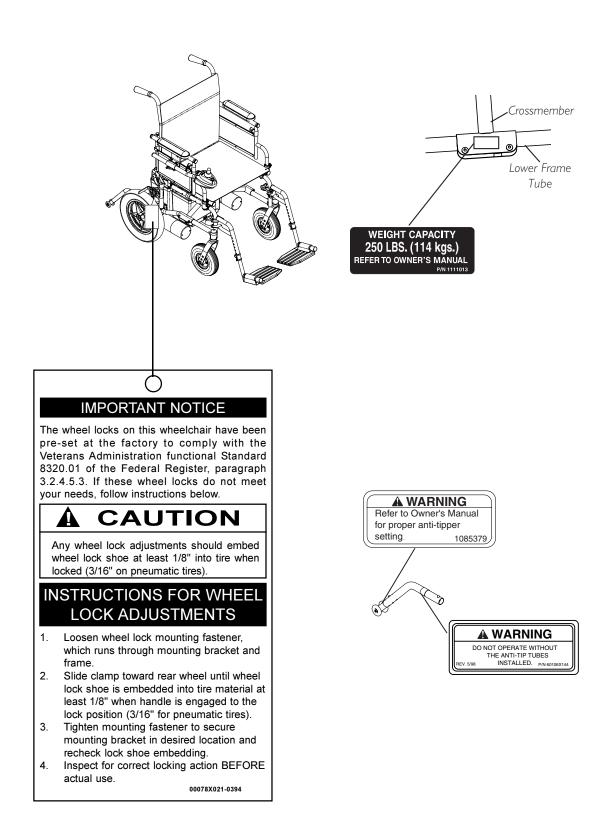
TYPICAL PRODUCT PARAMETERS

	XP6500	XP6520
SEAT WIDTH	18 inches	20 inches
SEAT DEPTH	16 or 18 inches (by extension)	18 inches
BACK HEIGHT	17, 18, or	19 inches
SEAT-TO-FLOOR	19½ ir	nches
OVERALL WIDTH (EXCLUDING JOYSTICK)	Unfolded - 24½ inches Folded - 13 inches	Unfolded - 26½ inches Folded - 13 inches
OVERALL HEIGHT	38 inches (with	17 inch back)
OVERALL LENGTH	28 inches (base only) to 47 inche	s (with riggings and anti-tippers)
WEIGHT W/O BATTERIES AND FRONT RIGGINGS WITH UI BATTERIES SHIPPING	82 lbs I 42 lbs I 00 lbs	
DRIVE WHEELS/TIRES (FLAT FREE)	121/2 inches x 21/4 inches	
CASTERS W/PRECISION SEALED BEARINGS	8 x 1¾ inches semi-pneumatic	
ANTI-TIPPERS	Removable	
FOOTRESTS/LEGRESTS	Swingaway,	Removable
ARMRESTS	Adjustable H	eight - Desk
UPHOLSTERY	Black 1	Nylon
BATTERIES (NOT SUPPLIED)	Use only UI batteries (Quantity - 2 UI)	
SPEED (M.P.H.)	0 to 4	
TURNING RADIUS CHAIR ONLY CHAIR WITH FOOTREST CHAIR WITH ANTI-TIPPERS	Front - 26 inches; Rear - 13 inches 36 inches 16 inches	
*RANGE (VARIABLE)	12-14 miles wit	h UI batteries
**WEIGHT LIMITATION	250 lbs	

*NOTE: Values for range are calculated for maximum chair weight rating using largest batteries applicable (U1), per test procedures described in ANSI/RESNA WC/VOL2-1998 Section 4 and meet federal reimbursement requirements for this product. While considered typical, they are derived based on certain ideal conditions. Variances in battery condition, user weight, usage pattern or overall terrain conditions will result in actual values for range that differ from these stated values. Users should become accustomed to how their unique conditions impact their individual results. Users should become familiar with the battery discharge indicator on the joystick to determine the range of their wheelchair. Refer to <u>When to Charge Batteries</u> on page 46 for more information about the battery discharge indicator.

***NOTE: Includes seating system and accessories.*

LABEL LOCATIONS



SECTION I — GENERAL GUIDELINES

A WARNING

This section contains important information for the safe operation and use of this product. DO NOT use this product or any available optional equipment without first completely reading and understanding these instructions and any additional instructional material such as Owner's Manuals, Service Manuals or Instruction Sheets supplied with this product or optional equipment. If you are unable to understand the Warnings, Cautions or Instructions, contact a healthcare professional, dealer or technical personnel before attempting to use this equipment - otherwise, injury or damage may occur.

Controller Settings/Repair or Service

A WARNING

Wheelchairs should be examined during maintenance for signs of corrosion (water exposure, incontinence, etc.). Electrical components damaged by corrosion should be replaced IMMEDIATELY.

Wheelchairs that are used by incontinent users and/or are frequently exposed to water may require replacement of electrical components more frequently.

Set-up of Electronics Control Unit is to be performed only by a qualified technician. The final adjustments of the controller may affect other activities of the wheelchair. Damage to the equipment could occur if improperly set-up or adjusted.

Operating Information

Performance adjustments should only be made by professionals of the healthcare field or persons fully conversant with this process and the driver's capabilities. Incorrect settings could cause injury to the driver, bystanders, damage to the chair and to surrounding property.

After the wheelchair has been set-up, check to make sure that the wheelchair performs to the specifications entered during the set-up procedure. If the wheelchair does not perform to specifications, turn the wheelchair off immediately and reenter set-up specifications. Repeat this procedure until the wheelchair performs to specifications.

ALWAYS shift your weight in the direction you are turning. DO NOT shift your weight in the opposite direction of the turn. Shifting your weight in the opposite direction of the turn may cause the inside drive wheel to lose traction and the wheelchair to tip over.

DO NOT shift your weight or sitting position toward the direction you are reaching as the wheelchair may tip over.

DO determine and establish your particular safety limits by practicing bending, reaching and transferring activities in the presence of a qualified healthcare professional before attempting active use of the wheelchair.

DO NOT attempt to reach objects if you have to move forward in the seat.

DO NOT attempt to reach objects if you have to pick them up from the floor by reaching down between your knees.

DO NOT lean over the top of the back upholstery to reach objects from behind as this may cause the wheelchair to tip over.

DO NOT use an escalator to move a wheelchair between floors. Serious bodily injury may occur.

Before attempting to transfer in or out of the wheelchair, every precaution should be taken to reduce the gap distance. Turn both casters parallel to the object you are transferring onto. Also, be certain the power is off and the wheel locks are engaged to prevent the wheels from moving.

DO NOT engage or disengage the motor release levers until the power is in the off position.

ProBasics strongly recommends proceeding down ramps or slopes at half speed or slower and to avoid hard braking or sudden stops.

DO NOT attempt to lift the wheelchair by lifting on any removable (detachable) parts. Lifting by means of any removable (detachable) parts of a wheelchair may result in injury to the user or damage to the wheelchair.

Anti-tippers MUST be used at all times. When outdoors on wet, soft ground or gravel surfaces, anti-tippers may not provide the same level of protection against tipover. Extra caution must be observed when traversing such surfaces.

Wheel locks are not brakes. DO NOT attempt to stop a moving wheelchair with the wheel locks.

DO NOT engage or disengage the clutches until the power is in the Off position.

DO NOT operate on roads, streets or highways.

DO NOT climb, go up or down ramps or traverse slopes greater than 9°.

DO NOT attempt to move up or down an incline with a water, ice or oil film.

NEVER leave an unoccupied wheelchair on an incline.

DO NOT attempt to drive over curbs or obstacles. Doing so may cause your wheelchair to turn over and cause bodily harm or damage to the chair.

DO NOT leave the power button in the on position when entering or exiting your wheelchair.

DO NOT stand on the frame of the wheelchair.

DO NOT use the footplates as a platform. When getting in or out of the wheelchair, make sure that the footplates are in the upward position or swing the footrests toward the outside of the chair.

DO NOT stand on the front riggings, otherwise damage may occur. When getting in or out of the wheelchair, make sure that the footplates on the front riggings are in the upward position or moved out of the way.

ALWAYS wear your seat positioning strap. The seat positioning strap is a positioning belt only. It is not designed for use as a safety device withstanding high stress loads such as auto or aircraft safety belts. If signs of wear appear, belt must be replaced immediately.

Always verify that hand grips on the rear cane are secure prior to use when an assistant is used to propel or lift the chair. Check for any signs of looseness or deterioration and if found, contact a qualified technician. Do not attempt to move the wheelchair by using the hand grips if they are found to be unsecure or have deteriorated.

When cleaning rear cane or hand grip areas use only a clean towel lightly dampened with cool water. Verify that grips are dry prior to use. Use of soap or ammonia based cleaning solutions will result in the hand grips sliding off the cane assembly. Failure to observe this warning may result in injury to the user or bystanders.

If wheelchair is exposed to extreme temperature (above 100°F or Below 32°F), high humidity and/or becomes wet, prior to use, ensure handgrips do not twist on wheelchair handle - otherwise damage or injury may occur.

DO NOT sit or transfer into the wheelchair unless it is fully open and the seat frame rails are fully seated into the side frame H-blocks.

Before performing any maintenance, adjustment or service verify that On/Off switch on the joystick is in the Off position.

Avoid storage or use near external flame or combustible products.

Tire Pressure

DO NOT use your wheelchair unless it has the proper tire pressure (P.S.I.).

DO NOT overinflate the tires. Failure to follow these suggestions can cause the tire to explode and cause bodily harm. The recommended tire pressure is listed on the side wall of the tire.

Electrical Accessories

EXTREME care should be exercised when using oxygen in close proximity to electric circuits and other combustible materials. Contact your oxygen supplier for instruction in the use of oxygen.

Batteries

The warranty and performance specifications contained in this manual are based on the use of deep cycle gel cell or sealed lead acid batteries. ProBasics strongly recommends their use as the power source for this unit.

If wet cell batteries are used, follow all manufacturer guidelines and instructions for installation and maintenance. Regardless of battery type, proper battery footprint and use of battery terminal caps as defined in <u>Batteries</u> on page 46 must be followed.

Carefully read battery/battery charger information prior to installing, servicing or operating your wheelchair.

Charging Batteries

NEVER attempt to recharge the batteries by attaching cables directly to the battery terminals.

DO NOT attempt to recharge the batteries and operate the wheelchair at the same time.

DO NOT operate wheelchair with extension cord attached to the AC cable.

DO NOT attempt to recharge the batteries when the wheelchair has been exposed to ANY type of moisture.

DO NOT attempt to recharge the batteries when the wheelchair is outside.

DO NOT sit in the wheelchair while charging the batteries.

DO NOT attempt to recharge batteries using at the same time BOTH the on-board battery charger AND an independent battery charger plugged into the joystick charger port. Doing so will reduce the life of the batteries.

READ and carefully follow the manufacturer's instructions for each charger (supplied or purchased). If charging instructions are not supplied, consult a qualified technician for proper procedures.

After charging batteries, ALWAYS make sure that the battery charger cord is unplugged. Failure to do this could result in damage to the cord or personal injury to the user or bystanders.

When using an extension cord, use only a three wire extension cord having at least 16 AWG (American Wire Gauge) wire and the same or higher electrical rating as the device being connected.

Use of improper extension cord could result in risk of fire and electric shock.

Ensure the pins of the extension cord plug are the same number, size, and shape as those on the charger.

DO NOT under any circumstances cut or remove the round grounding plug from the charger AC cable plug or the extension cord plug.

Three prong to two prong adapters should not be used. Use of three prong adapters can result in improper grounding and present a shock hazard to the user.

Grounding Instructions

A DANGER

When using an extension cord having at least 16 AWG (American Wire Gauge) wire and the same or higher electrical rating as the device being connected. Use of improper extension cord could result in a risk of fire and electric shock. Three prong adapters can result in improper grounding and present a shock hazard to the user.

DO NOT, under any circumstances, cut or remove the round grounding prong from any plug used with or for ProBasics products. Some devices are equipped with three-prong (grounding) plugs for protection against possible shock hazards and fire. Where a two-prong wall receptacle is encountered, it is the personal responsibility and obligation of the customer to contact a qualified electrician and have the two-prong receptacle replaced with a properly grounded three-prong wall receptacle in accordance with the National Electrical Code. If you must use an extension cord, use ONLY a three-wire extension cord having the same or higher electrical rating as the device being connected. In addition, ProBasics has placed RED/ORANGE warning tags on some equipment. DO NOT remove these tags.

Rain Test

ProBasics has tested its power wheelchairs in accordance with ISO 7176 "Rain Test." This provides the end user or his/her assistant sufficient time to remove his/her power wheelchair from a rain storm and retain wheelchair operation.

DO NOT leave power wheelchair in a rain storm of any kind.

DO NOT use power wheelchair in a shower or leave it in a damp bathroom while taking a shower.

DO NOT store power wheelchair in a damp area for an extended period of time.

Direct exposure to excessive rain or dampness may cause the chair to malfunction electrically and mechanically, may cause the chair to prematurely rust or may damage the upholstery.

Check to ensure that the RED and GREY battery terminal caps are secured in place, joystick boot is NOT torn or cracked where water can enter and that all electrical connections are secure at all times.

DO NOT use the wheelchair if the joystick boot is torn or cracked. If the joystick boot becomes torn or cracked, replace IMMEDIATELY.

Weight Training

ProBasics DOES NOT recommend the use of its wheelchairs as a weight training apparatus. ProBasics wheelchairs have not been designed or tested as a seat for any kind of weight training. If occupant uses said wheelchair as a weight training apparatus, ProBasics shall NOT be liable for bodily injury and the warranty is void.

Weight Limitation

The wheelchair has a weight limitation, including seating system and accessories, of 250 lbs. Refer to <u>Percentage of Weight Distribution</u> on page 22. ProBasics recommends that only heavy-duty wheelchairs should be used for individuals weighing more than 250 lbs. Further, the activity level of the individual wheelchair user is important. For instance, a 170 lb. active wheelchair could subject the wheelchair to more stress than a 250 lb. user. ProBasics recommends that very active users consider the use of heavy-duty wheelchairs.

SECTION 2—EMI INFORMATION

CAUTION: IT IS VERY IMPORTANT THAT YOU READ THIS INFORMATION REGARDING THE POSSIBLE EFFECTS OF ELECTROMAGNETIC INTERFERENCE ON YOUR POWERED WHEELCHAIR.

Electromagnetic Interference (EMI) From Radio Wave Sources

Powered wheelchairs and motorized scooters (in this text, both will be referred to as powered wheelchairs) may be susceptible to electromagnetic interference (EMI), which is interfering electromagnetic energy (EM) emitted from sources such as radio stations, TV stations, amateur radio (HAM) transmitters, two way radios, and cellular phones. The interference (from radio wave sources) can cause the powered wheelchair to release its brakes, move by itself, or move in unintended directions. It can also permanently damage the powered wheelchair's control system. The intensity of the interfering EM energy can be measured in volts per meter (V/m). Each powered wheelchair can resist EMI up to a certain intensity. This is called its "immunity level." The higher the immunity level, the greater the protection. At this time, current technology is capable of achieving at least a 20 V/m immunity level, which would provide useful protection from the more common sources of radiated EMI.

There are a number of sources of relatively intense electromagnetic fields in the everyday environment. Some of these sources are obvious and easy to avoid. Others are not apparent and exposure is unavoidable. However, we believe that by following the warnings listed below, your risk to EMI will be minimized.

The sources of radiated EMI can be broadly classified into three types:

 Hand-held Portable transceivers (transmitters-receivers with the antenna mounted directly on the transmitting unit. Examples include: citizens band (CB) radios, "walkie talkie", security, fire and police transceivers, cellular telephones, and other personal communication devices).

NOTE: Some cellular telephones and similar devices transmit signals while they are ON, even when not being used.

- 2) Medium-range mobile transceivers, such as those used in police cars, fire trucks, ambulances and taxis. These usually have the antenna mounted on the outside of the vehicle; and
- 3) Long-range transmitters and transceivers, such as commercial broadcast transmitters (radio and TV broadcast antenna towers) and amateur (HAM) radios.

NOTE: Other types of hand-held devices, such as cordless phones, laptop computers, AM/FM radios, TV sets, CD players, cassette players, and small appliances, such as electric shavers and hair dryers, so far as we know, are not likely to cause EMI problems to your powered wheelchair.

PROBASICS

∆ WARNING

Powered Wheelchair Electromagnetic Interference (EMI)

Because EM energy rapidly becomes more intense as one moves closer to the transmitting antenna (source), the EM fields from hand-held radio wave sources (transceivers) are of special concern. It is possible to unintentionally bring high levels of EM energy very close to the powered wheelchair's control system while using these devices. This can affect powered wheelchair movement and braking. Therefore, the warnings listed below are recommended to prevent possible interference with the control system of the powered wheelchair.

Electromagnetic interference (EMI) from sources such as radio and TV stations, amateur radio (HAM) transmitters, two-way radios, and cellular phones can affect powered wheelchairs and motorized scooters.

FOLLOWING THE WARNINGS LISTED BELOW SHOULD REDUCE THE CHANCE OF UNINTENDED BRAKE RELEASE OR POWERED WHEELCHAIR MOVEMENT WHICH COULD RESULT IN SERIOUS INJURY.

- Do not operate hand-held transceivers (transmitters receivers), such as citizens band (CB) radios, or turn ON personal communication devices, such as cellular phones, while the powered wheelchair is turned ON;
- 2) Be aware of nearby transmitters, such as radio or TV stations, and try to avoid coming close to them;
- 3) If unintended movement or brake release occurs, turn the powered wheelchair Off as soon as it is safe;
- 4) Be aware that adding accessories or components, or modifying the powered wheelchair, may make it more susceptible to EMI.

NOTE: There is no easy way to evaluate their effect on the overall immunity of the powered wheelchair).

5) Report all incidents of unintended movement or brake release to the powered wheelchair manufacturer, and note whether there is a source of EMI nearby.

Important Information

- 1) 20 volts per metre (V/m) is a generally achievable and useful immunity level against EMI (as of May 1994) (the higher the level, the greater the protection);
- 2) This device has been tested to a radiated immunity level of 20 volts per meter.
- 3) The immunity level of the product is unknown.

Modification of any kind to the electronics of this wheelchair as manufactured by Invacare may adversely affect the EMI immunity levels.

SECTION 3—SAFETY/HANDLING OF WHEELCHAIRS

"Safety and Handling" of the wheelchair requires the close attention of the wheelchair user as well as the assistant. This manual points out the most common procedures and techniques involved in the safe operation and maintenance of the wheelchair. It is important to practice and master these safe techniques until you are comfortable in maneuvering around the frequently encountered architectural barriers.

Use this information only as a "basic" guide. The techniques that are discussed on the following pages have been used successfully by many.

Individual wheelchair users often develop skills to deal with daily living activities that may differ from those described in this manual. ProBasics recognizes and encourages each individual to try what works best for him/her in overcoming architectural obstacles that they may encounter. However, all warnings and cautions given in this manual MUST be followed. Techniques in this manual are a starting point for the new wheelchair user and assistant with "safety" as the most important consideration for all.

Stability and Balance

A WARNING

ALWAYS wear your seat positioning strap. The seat positioning strap is a positioning belt only. It is not designed for use as a safety device withstanding high stress loads such as auto or aircraft safety belts. If signs of wear appear, belt MUST be replaced immediately.

To assure stability and proper operation of your wheelchair, you must at all times maintain proper balance. Your wheelchair has been designed to remain upright and stable during normal daily activities as long as you do not move beyond the center of gravity. DO NOT lean forward out of the wheelchair any further than the length of the armrests.

Coping With Everyday Obstacles

Coping with the irritation of everyday obstacles can be alleviated somewhat by learning how to manage your wheelchair. Keep in mind your center of gravity to maintain stability and balance.

While the walking beam allows you to traverse up to a 2-inch bump or threshold, stopping after the wheels cross the bump poses a problem. The chair cannot reverse over the bump at this point. Continue forward and then turn around.

While the wheelchair is designed for use primarily in and around the home, the provider should determine whether this chair is suitable for the actual environment the chair will be used in.

DO NOT go down ramp at full speed. Some seat/back positions will cause wheelchair to feel unstable.

CAUTION

Be aware of condition of ramp. Traction will be diminished/nonexistent on a slippery surface. Proceed with caution.

A Note to Wheelchair Assistants

When assistance to the wheelchair user is required, remember to use good body mechanics. Keep your back straight and bend your knees whenever tilting wheelchair or traversing curbs or other impediments.

Also, be aware of detachable parts such as arms or legrests. These must NEVER be used to move the wheelchair or as lifting supports, as they may be inadvertently released, resulting in possible injury to the user and/or assistant(s).

When learning a new assistance technique, have an experienced assistant help you before attempting it alone.

Tipping

DO NOT tip the wheelchair without assistance.

When tipping the wheelchair, an assistant should grasp the back of the wheelchair on a non-removable (non-detachable) part. Inform the wheelchair occupant before tipping the wheelchair and remind him/her to lean back. Be sure the occupant's feet and hands are clear of all wheels.

Tipping - Curbs

After mastering the techniques of tipping the wheelchair, use this procedure to tackle curbs, short stairs, etc.

This procedure requires two assistants. The second assistant should be positioned at the front of the wheelchair lifting upward on a non-removable (non-detachable) part of the wheelchair frame when lifting the wheelchair and stabilizing the wheelchair when the wheelchair is being lowered to the ground.

The first assistant should turn the anti-tippers so the wheels are pointing up, apply a continuous downward motion until the balance point is achieved and the front casters clear the curb. At this point, the assistants will feel a difference in the weight distribution.

DO NOT let the wheelchair drop the last few inches to the ground. This could result in injury to the occupant.

Roll the wheelchair forward and SLOWLY lower the wheelchair in one continuous movement. Push the wheelchair forward until the rear wheels roll up and over the curb.

Make sure anti-tipper wheels are pointing down towards the ground/floor before using the wheelchair.

Turn the anti-tipper wheels down towards the ground/floor.

Lifting/Stairways

A WARNING

DO NOT attempt to move an occupied power wheelchair between floors using a stairway. Use an elevator to move an occupied power wheelchair between floors. If moving a power wheelchair between floors by means of a stairway, the occupant MUST be removed and transported independently of the power wheelchair.

Extreme caution is advised when it is necessary to move an unoccupied power wheelchair up or down the stairs. ProBasics recommends using two assistants and making thorough preparations.

Use ONLY secure, nondetachable parts for hand-hold supports.

It is strongly recommended to lift the wheelchair only by the rear frame and the front forks - otherwise injury or damage may occur.

DO NOT attempt to lift the wheelchair by any removable (detachable) parts. Lifting by means of any removable (detachable) parts of a wheelchair may result in injury to the user or damage to the wheelchair.

The weight of the wheelchair without the user and batteries is between 80 and 127 lbs.

Follow this procedure for moving the wheelchair between floors when an elevator is NOT available or lifting the wheelchair is necessary:

NOTE: When using a stairway to move the wheelchair, seat and any accessories, move all wheelchair components away from the stairway prior to reassembly.

- 1. Remove the occupant from the wheelchair.
- 2. Remove the battery boxes from the wheelchair. Refer to <u>Removing/Installing the</u> <u>Battery Boxes</u> on page 49.
- 3. If necessary, fold the wheelchair. Refer to <u>Transporting the Wheelchair</u> on page 61.
- 4. Bend your knees and keep your back straight.

- 5. Using non-removable (non-detachable) parts of the wheelchair, lift the wheelchair off the ground and transfer the wheelchair up or down the stairs.
- 6. The wheelchair should not be lowered until the last stair has been negotiated and the wheelchair has been carried away from the stairway.

\triangle ESCALATORS WARNING

DO NOT use an escalator to move a wheelchair between floors. Serious bodily injury may occur.

Transferring to and From Other Seats

A WARNING

ALWAYS turn the wheelchair power Off and engage the clutches to prevent the wheels from moving before attempting to transfer in or out of the wheelchair. Also make sure every precaution is taken to reduce the gap distance by turning both casters parallel to the object you are transferring onto.

CAUTION

When transferring, position yourself as far back as possible in the seat. This will prevent broken screws, damaged upholstery and the possibility of the wheelchair tipping forward.

NOTE: This activity may be performed independently provided you have adequate mobility and upper body strength.

NOTE: For this procedure, refer to FIGURE 3.1.

- 1. Position the wheelchair as close as possible along side the seat to which you are transferring, with the casters pointing parallel to it.
- 2. After the wheelchair is positioned properly for transfer, verify that the clutches are engaged. Refer to <u>Engaging/Disengaging the Clutches</u> on page 56.

Minimum Gap Distance

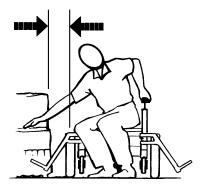


FIGURE 3.1 Transferring to and From Other Seats

3. Shift body weight into seat with transfer.

During independent transfer, little or no seat platform will be beneath you. Use a transfer board if at all possible.

Percentage of Weight Distribution

A WARNING

DO NOT attempt to reach objects if you have to move forward in the seat or pick them up from the floor by reaching down between your knees.

Proper positioning is essential for your safety. When reaching, leaning, bending or bending forward, it is important to use the casters as a tool to maintain stability and balance.

Many activities require the wheelchair user to reach, bend and transfer in and out of the wheelchair. These movements will cause a change to the normal balance, center of gravity, and weight distribution of the wheelchair. To determine and establish your particular safety limits, practice bending, reaching and transferring activities in several combinations in the presence of a qualified healthcare professional before attempting active use of the wheelchair.

Reaching, Leaning and Bending - Forward

NOTE: For this procedure, refer to FIGURE 3.2 on page 23.

- 1. Position the front casters as far forward as possible.
- 2. Engage clutches and, if applicable, wheel locks*.

DO NOT attempt to reach objects if you have to move forward in the seat or pick them up from the floor by reaching down between your knees.

*Wheel locks are an option. You can order the wheelchair with or without wheel locks. Transfer to and from the wheelchair in the presence of a qualified healthcare professional to determine individual safety limits. ProBasics strongly recommends ordering the wheel locks as an additional safeguard for the wheelchair user.

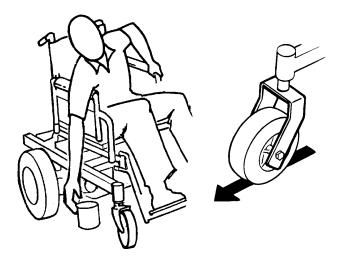


FIGURE 3.2 Reaching, Leaning and Bending - Forward

Reaching and Bending - Backward

∆ WARNING

DO NOT lean over the top of the back upholstery. This will change your center of gravity and may cause you to tip over.

NOTE: For this procedure, refer to FIGURE 3.3.

- 1. Position wheelchair as close as possible to the desired object.
- 2. Point the front and rear casters rearward to create the longest possible wheelbase.
- 3. Reach back only as far as your arm will extend without changing your sitting position.



FIGURE 3.3 Reaching and Bending - Backward

SECTION 4—SAFETY INSPECTION/TROUBLESHOOTING

NOTE: Every six months or as necessary take your wheelchair to a qualified dealer for a thorough inspection and servicing. Regular cleaning will reveal loose or worn parts and enhance the smooth operation of your wheelchair. To operate properly and safely, your wheelchair must be cared for just like any other vehicle. Routine maintenance will extend the life and efficiency of your wheelchair.

Safety Inspection Checklists

CAUTION

As with any vehicle, wheels and tires should be checked periodically for cracks and wear and should be replaced as necessary.

Initial adjustments should be made to suit your personal body structure needs and preference. Thereafter follow these maintenance procedures:

Inspect/Adjust Initially

- □ Ensure that the wheelchair rolls straight (no **excessive** drag or pull to one side).
- □ Ensure that all fasteners on the clothing guards are secure.
- □ Ensure that the arms are secure but easy to release and adjustment levers engage properly.
- □ Ensure that adjustable height arms operate and lock securely.
- □ Ensure armrest pads sit flush against arm tubes.
- □ Ensure seat is secured to wheelchair frame.
- □ Clean seat upholstery and armrests.
- □ Ensure wheel mounting nuts are secure on drive wheels.
- □ Ensure that casters are free of debris.
- □ Ensure no excessive side movement or binding occurs when drive wheels are lifted and spun when disengaged (free-wheeling).
- □ Ensure that drive wheel axle bolts and locking tab washers are secure.
- □ Ensure that the wheel locks engage properly and do not interfere with the tires when rolling. Also, ensure that the pivot points are free of wear and looseness.
- □ Inspect caster assembly has proper tension when caster is spun. Caster should come to a gradual stop.
- □ Loosen/tighten caster locknut if wheel wobbles noticeably or binds to a stop.
- □ Ensure all caster/wheel/fork/headtube fasteners are secure.

- □ Inspect tires for flat spots and wear. If tires are pneumatic, check for proper inflation.
- □ Seat and/or back upholstery have no rips and do not sag. Replace if necessary.

Inspect/Adjust Weekly

- □ Seat is secured to wheelchair frame.
- □ Seat release latch is not worn and is functional. Replace if necessary.
- □ Inspect tires for flat spots and wear. If the tires are pneumatic, check for proper inflation.
- □ Ensure all caster/wheel/fork/headtube fasteners are secure.
- □ Ensure that casters are free of debris.
- □ Ensure arm pivot points are not worn and/or loose. Replace if necessary.

Inspect/Adjust Monthly

- □ Ensure wheel mounting nuts are secure on drive wheels.
- □ Ensure no excessive side movement or binding occurs when drive wheels are lifted and spun when disengaged (free-wheeling).
- □ Ensure that drive wheel axle bolts and locking tab washers are secure.
- □ Ensure that casters are free of debris.
- □ Inspect caster assembly has proper tension when caster is spun. Caster should come to a gradual stop.
- □ Loosen/tighten caster locknut if wheel wobbles noticeably or binds to a stop.
- □ Ensure that the wheel locks engage properly and do not interfere with the tires when rolling. Also, ensure that the pivot points are free of wear and looseness.
- □ Inspect the seat positioning strap for signs of wear. Replace if worn or damaged.
- □ Ensure that the buckle on the seat positioning strap latches. Replace if necessary.
- □ Verify that the hardware that attaches the seat positioning strap to the seat frame is secure and undamaged. Replace if necessary.

Inspect/Adjust Periodically

- □ Ensure wheelchair rolls straight (no excessive drag or pull to one side).
- □ Ensure that casters are free of debris.
- □ Ensure that all fasteners on the clothing guards are secure.
- □ Ensure arms are secure but easy to release and adjustment levers engage properly.
- □ Ensure adjustable height arms operate and lock securely.
- □ Ensure arm pivot points are not worn and/or loose. Replace if necessary.
- □ Ensure armrest pads sit flush against arm tubes.

Part No. 1123839



- □ Ensure seat and/or back upholstery have no rips and do not sag. Replace if necessary.
- □ Ensure seat release latch is not worn. Replace if necessary.
- □ Seat and/or back upholstery have no rips and do not sag. Replace if necessary.
- □ Clean upholstery and armrests.
- □ Inspect charger AC power cord for damage. Replace if necessary.
- □ Check that all labels are present and legible. Replace if necessary.

Troubleshooting - Mechanical

Chair Veers Left/Right	Sluggish Turn/Performance	Casters Flutter	Squeaks and Rattles	Looseness In Chair	Chair 3 Wheels	Solutions
x	х	x			×	If pneumatic, check tires for correct and equal pressure.
x	x	x	x	x		Check for loose stem nuts/bolts.
x		x				Check that both casters contact ground at the same time.

Troubleshooting Guide

SYMPTOM	PROBABLE CAUSE	solutions
Batteries draw excessive current when charging.	Battery failure. Electrical malfunction.	Have batteries checked for shorted cell. Replace if necessary. Contact dealer for service.
Battery indicator flashes the charge level is low immedi- ately after recharging.	Battery failure. Charger malfunction. Electrical malfunction.	Check batteries for shorted cell. Replace if nec- essary. Contact dealer/ProBasics. Poor connections between charger and wheel- chair. Contact dealer for service.
Battery indicator flashes the charge level is low too soon after being recharged.	Batteries not charged. Weak batteries. Electrical malfunction.	Have charger checked. Replace batteries if necessary. Contact dealer for service.
Motor chatters or runs irregularly.	Electrical malfunction.	Contact dealer.

SYMPTOM	PROBABLE CAUSE	SOLUTIONS
Wheelchair does not respond to commands. Power on, battery indicator flashes.	One or both clutches disen- gaged.	Engage motor locks/clutches.
Only one drive wheel turns.	Electrical malfunction. One clutch is disengaged.	Contact dealer for service. Engage clutch.
Joystick erratic or does not respond as desired.	Electrical malfunction. Controller programmed improperly.	Contact dealer for service. Reprogram controller. Contact dealer for ser- vice.
Wheelchair does not respond to commands. Power indicator off - even after recharging.	Poor battery terminal con- nection. Electrical malfunction.	Clean terminals. Contact dealer.

NOTE: For additional troubleshooting information and explanation of error codes, refer to the Electronics Manual (P/N 1123804) supplied with each wheelchair.

Checking Battery Charge Level

DON'T	DO
Don't perform any installation or maintenance with- out first reading this manual.	Read and understand this manual and any service infor- mation that accompanies a battery and charger before operating the wheelchair.
Don't make it a habit to discharge batteries to the lowest level.	Recharge as frequently as possible to maintain a high charge level and extend battery life.
Don't use randomly chosen batteries/chargers.	Follow recommendations in this manual when selecting a battery or charger.
Don't put new batteries into service before charging.	Fully charge a new battery before using. Use a carrying strap to remove, move or install a battery.
Don't tip or tilt batteries.	
Don't tap on clamps or terminals with tools.	Push battery clamps onto terminals. Spread clamps wider if necessary.
Don't mismatch your battery and chargers. Don't use randomly chosen batteries or chargers.	Use ONLY a GEL charger for a GEL or sealed battery and a regular charger for regular batteries.

SECTION 5—WHEELCHAIR OPERATION

A WARNING

After ANY adjustments, repair or service and before use, make sure that all attaching hardware is tightened securely - otherwise injury or damage may result.

Set-up of Electronics Control Unit is to be performed only by a qualified technician. The final adjustments of the controller may affect other activities of the wheelchair. Damage to the equipment could occur if improperly set-up or adjusted.

Joystick Switches and Indicators

NOTE: For the following information, refer to FIGURE 5.1 on page 29.

Multi Function Charger Port

The multi function charger port is located at the front of the joystick housing. This provides easy access for charging the wheelchair batteries. This port also serves as the Remote Programmer Communication connection.

On/Off Toggle Switch

This toggle switch is located at the back of the joystick housing.

Speed Control switch

The speed control switch is located on the back of the joystick housing. This rotary switch is used for controlling the speed and acceleration of the wheelchair.

- 1. Turn the switch clockwise to increase the speed of the wheelchair.
- 2. Turn the switch counterclockwise to decrease the speed of the wheelchair.

Joystick

The joystick has proportional drive control, meaning that further the joystick is pushed from the upright (neutral) position, the faster the wheelchair moves. Your top speed, however, is limited by the setting of the speed-control knob and programmed settings.

To slow the wheelchair to a stop, simply release the joystick. The wheelchair has automatic speed and direction compensation to minimize corrections.

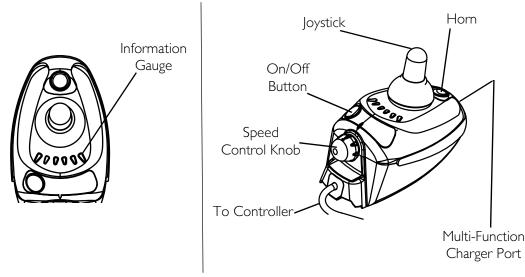


FIGURE 5.1 Joystick Switches and Indicators

Information Gauge Display

The Information Gauge Display is located on the front of the joystick housing. It provides the following information to the user on the status of the wheelchair -

- 1. Power is on.
- 2. True state-of-battery-charge, including notification of when the battery requires charging:
 - A. GREEN LED is lit, indicating well charged batteries.
 - B. Only AMBER LEDs are lit, indicating batteries are moderately charged. Recharge batteries before taking a long trip.
 - C. Only RED LED is lit, indicating batteries are running out of charge. Recharge batteries as soon as possible.
- 3. Program, inhibit or charge modes.
- 4. Fault indication (Flash Codes).

The Information Gauge display also serves as a system diagnostic device when a fault is detected by the control module. A specific number of flashes of the LEDs indicate the type of fault detected. Refer to the following table of the diagnostic indications of the wheelchair status.

SECTION 5—WHEELCHAIR OPERATION

DISPLAY	DESCRIPTION	DEFINITION	COMMENTS
	All LEDs are off.	Power is Off.	
	All LEDs are on.	Power is On.	Fewer than three LEDs on implies reduced battery charge.
	Left RED LED is flashing.	Battery charge is low.	The batteries should be charged as soon as possi- ble.
	Left to Right "chase" alter- nating with steady display.	Joystick is in program- ming, inhibit and/or charg- ing mode.	The steady LEDs indicate the current state of the battery charge.
	Right GREEN LED is flash- ing.	Joystick is in Speed Limit mode.	The current state of bat- tery charge will be dis- played at the same time.
	All LEDs are flashing slowly.	Joystick has detected Out-of-Neu- tral-at-Power-Up mode.	Release the joystick back to Neutral.
	All LEDs are flashing quickly.	Joystick has detected a fault.	Joystick uses Flash codes to indicate faults. Refer to the electronics manual (Part Number 1123804).

Operating the Wheelchair

NOTE: For this procedure, refer to FIGURE 5.2 on page 32.

Turning the Power On/Off

1. To turn the power On, press the On/Off button.

NOTE: After turning power On, all indicators will light briefly and the display gauge will indicate one of the following:

- A. The Current Battery Charge Shows all LEDs lit or partial LEDs lit. Refer to the preceding information gauge display table.
- B. Out Of Neutral At Power up Shows all LEDs flashing slowly. This occurs when the power is turned on when the joystick is out of neutral. This feature prevents sudden and unexpected movements of the power chair.
- 2. To turn the power off, press the On/Off button.

Using the Horn

1. Press the horn button located above the information gauge on the joystick housing.

Using the Joystick to Drive the Chair

The joystick is located at the front of the joystick housing and provides smooth control of speed and direction. It is equipped with 360 degrees of mobility for ease of operation. The joystick is spring-loaded, and automatically returns to the upright (neutral) position when released. Pushing the joystick in a given direction causes the chair to move in that direction.

The joystick has proportional drive control, meaning that the further it is pushed from the upright (neutral) position, the faster the wheelchair moves. The maximum speed, however, is limited by the setting of the speed-control knob.

To slow the wheelchair to a stop, simply release the joystick. The wheelchair has automatic speed and direction compensation to minimize corrections.

When first learning to drive, select a slow speed and try to drive the wheelchair as slowly as possible by pushing the joystick slightly forward. This exercise will help you learn to utilize the full potential of the proportional control and allow you to start and stop smoothly.

To drive the wheelchair, perform the following:

- 1. Adjust speed control switch to the appropriate setting.
- 2. Turn the power On. Refer to <u>Turning the Power On/Off</u> on page 31.

SECTION 5—WHEELCHAIR OPERATION

3. Move the joystick in the following manner:

MOVEMENT	ACTION
FORWARD	Push forward on the joystick.
REVERSE	Pull back on the joystick.
Turn RIGHT	Move the joystick RIGHT.
Turn LEFT	Move the joystick LEFT.
STOP	Release the joystick and the wheelchair will quickly slow down.

NOTE: The joystick MUST be in the NEUTRAL position for an accurate reading of battery charge.

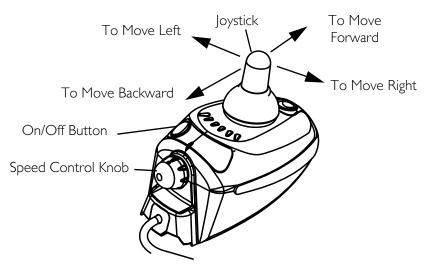


FIGURE 5.2 Using the Joystick to Drive the Chair

SECTION 6—FRONT RIGGINGS

After ANY adjustments, repair or service and before use, make sure that all attaching hardware is tightened securely - otherwise injury or damage may result.

Before performing any maintenance, adjustment or service verify that On/Off switch on the joystick is in the Off position.

Installing/Removing/Using the Footrest/Legrest

NOTE: For this procedure, refer to FIGURE 6.1.

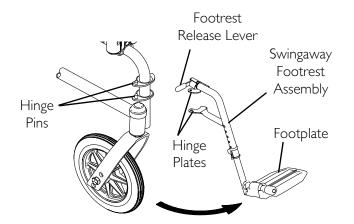
NOTE: This procedure applies to the swingaway footrest and elevating legrest.

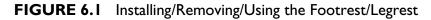
Installing

- 1. Turn the swingaway footrest assembly to the side (open footplate is perpendicular to wheelchair).
- 2. Install the hinge plates on the swingaway footrest assembly onto the hinge pins on the wheelchair frame.
- 3. Push the swingaway footrest assembly towards the inside of the wheelchair until it locks into place.

NOTE: The footplate will be on the inside of the wheelchair when locked in place.

4. Repeat this procedure for the other footrest assembly.





Removing

- 1. Push the footrest release lever inward.
- 2. Rotate swingaway footrest assembly outward.
- 3. Lift the swingaway footrest assembly off of the hinge pins.

Using

- 1. To move the footrest out of the way without removing, push the footrest release lever inward, rotate footrest outward.
- 2. To lock the footrest, push the swingaway footrest assembly towards the inside of the wheelchair until it locks into place.

NOTE: The footplate will be on the inside of the wheelchair when locked in place.

Adjusting the Footrest Height

NOTE: For this procedure, refer to FIGURE 6.2.

NOTE: This procedure applies to the swingaway footrest and elevating legrest.

1. Remove the swingaway footrest assembly. Refer to <u>Installing/Removing/Using the</u> <u>Footrest/Legrest</u> on page 33.

NOTE: Lay the assembly on a flat surface to simplify this procedure.

- 2. Remove impact guards and/or calf strap, if installed.
- 3. Pull the cam lock lever up to the unlocked position.
- 4. Push in the release buttons and reposition the lower footrest assembly to the desired height.
- 5. Ensure that the release buttons fully protrude from holes on both sides of the upper footrest support.
- 6. Rotate cam lock lever down to locked position.
- 7. Replace impact guards and/or calf strap.
- 8. Repeat this procedure for the other footrest, if necessary.
- 9. Reinstall the swingaway footrest assembly. Refer to <u>Installing/Removing/Using the</u> <u>Footrest/Legrest</u> on page 33.

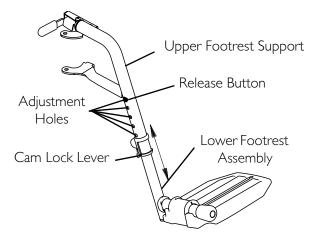


FIGURE 6.2 Adjusting the Footrest Height

Replacing the Heel Loop

NOTE: For this procedure, refer to FIGURE 6.3.

- 1. Pull the cam lock lever up to the unlocked position.
- 2. Push in the release buttons and remove the lower footrest assembly.
- 3. Remove the mounting screw, spacer and locknut that secure the heel loop to the footrest.
- 4. Remove existing heel loop from slide tube.
- 5. Install new heel loop onto slide tube.
- 6. Install the mounting screw, spacer and locknut to secure the heel loop to the footrest. Tighten until the spacer is secure.

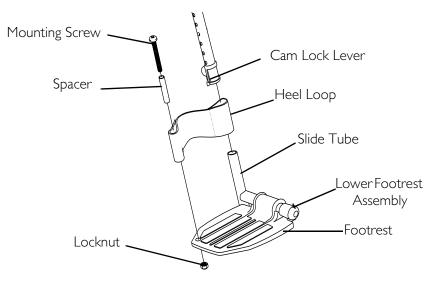


FIGURE 6.3 Replacing the Heel Loop

- 7. Insert the lower footrest assembly into the upper footrest assembly to desired height.
- 8. Ensure that the release buttons fully protrude from holes on both sides of the upper footrest support.
- 9. Rotate cam lock lever down to locked position.

Raising/Lowering the Legrest Assembly

A WARNING

Ensure hands and fingers are clear of elevating legrest mechanism before pushing release lever to lower the elevating legrest. Otherwise injury may occur due to pinch points.

The wheelchair user's leg MUST be supported by an assistant before attempting to lower legrest.

Part No. 1123839

NOTE: For this procedure, refer to FIGURE 6.4.

- 1. To raise the elevating legrest, the assistant should hold the support tube and raise elevating legrests until the desired height is obtained.
- 2. To lower the elevating legrest, perform the following:
 - A. Support user leg with one hand.
 - B. Push release lever downward with other hand.
 - C. Gently, lower user leg down and rest against the legrest.

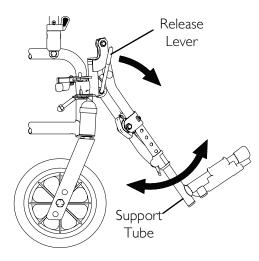


FIGURE 6.4 Raising/Lowering the Legrest Assembly

SECTION 7—ARMS

After ANY adjustments, repair or service and before use, make sure that all attaching hardware is tightened securely - otherwise injury or damage may result.

Before performing any maintenance, adjustment or service verify that On/Off switch on the joystick is in the Off position.

Adjusting Armrest Height

A WARNING

Make sure the height adjustment lever is in the locked position before using the wheelchair.

NOTE: For this procedure, refer to FIGURE 7.1.

- 1. Unlock the armrest by flipping the height adjustment lever on the top front of the armrest to the up (horizontal) position.
- 2. Adjust armrest to one of five positions.

NOTE: Height adjustment lever MUST be in the unlocked position when placing armrest into the arm assembly.

- 3. Lock the armrest by pressing the height adjustment lever into the down (vertical) position when the desired armrest height is achieved.
- 4. Repeat STEPS 1-3 for other armrest.

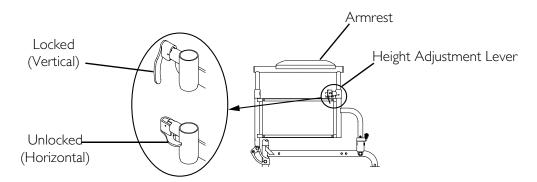


FIGURE 7.1 Adjusting Armrest Height

Swing-Back Arms

A WARNING

Make sure the armrest release lever is in the locked position before using the wheelchair.

NOTE: For this procedure, refer to FIGURE 7.2.

- 1. Unlock the swing-back arms by rotating the armrest release lever towards the outside of the wheelchair.
- 2. Pull the front of the swing-back arm straight up/out of the arm socket and towards the rear of the wheelchair.
- 3. To use the swing-back arm, push the swing-back arm towards the front of the wheelchair and then downward into the arm socket.

NOTE: Armrest release lever MUST be in the unlocked position when placing armrest into the arm sockets.

4. Lock the swing-back arms by rotating the armrest release lever towards the inside of the wheelchair.

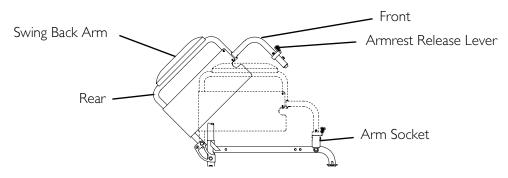


FIGURE 7.2 Swing-Back Arms

Replacing Armrest Pad

NOTE: For this procedure, refer to FIGURE 7.3

- 1. Remove the mounting screws that secure the armrest pad to the armrest assembly.
- 2. Replace armrest pad and securely tighten with the existing mounting screws.

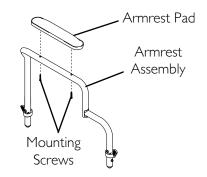


FIGURE 7.3 Replacing Armrest Pad

PROBASICS

SECTION 8—SEAT AND BACK

After ANY adjustments, repair or service and before use, make sure that all attaching hardware is tightened securely - otherwise injury or damage may result.

Before performing any maintenance, adjustment or service verify that On/Off switch on the joystick is in the Off position.

Replacing the Seat Upholstery

NOTE: For the following procedure, refer to FIGURE 8.1.

1. Remove the mounting screws that secure the existing seat upholstery to the wheelchair frame.

NOTE: Refer to the following table to determine the number of mounting screws for each seat depth.

SEAT DEPTH	NUMBER OF SCREWS
16 inch	8
18 inch	10

- 2. Remove the existing seat upholstery from the wheelchair frame.
- 3. Install new seat upholstery by reversing Steps 1-2.

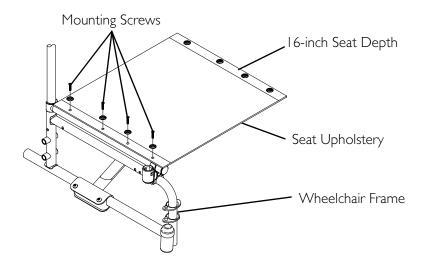


FIGURE 8.1 Replacing the Seat Upholstery

Replacing the Back Upholstery

NOTE: For the following procedure, refer to FIGURE 8.2.

- 1. Flip swing back arms up and out of the way. Refer to <u>Swing-Back Arms</u> on page 38.
- 2. Remove the six mounting screws and washers that secure the existing back upholstery to the back canes.
- 3. Cut the tie wraps that secure the existing back upholstery to the wheelchair frame.
- 4. Securely tighten the new back upholstery to the back canes with the six mounting screws and washers starting with the top hole of the back cane.
- 5. Install two new tie wraps through the bottom holes of the upholstery to the bottom of the back upholstery to the back canes.
- 6. Flip swing-back arms down for use. Refer to Swing-Back Arms on page 38.

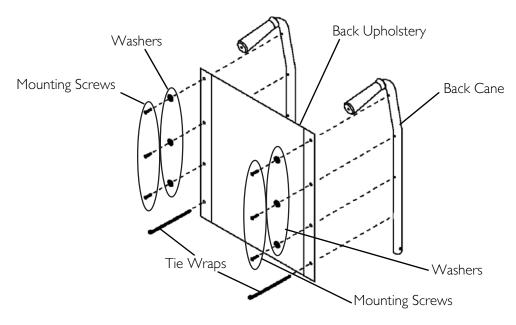


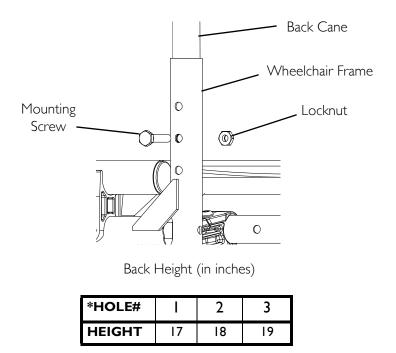
FIGURE 8.2 Replacing the Back Upholstery

Adjusting the Back Height

NOTE: For this procedure, refer to FIGURE 8.3.

NOTE: Back canes must be adjusted to the same height.

- 1. Remove the two mounting screws and locknuts that secure the two back canes to the wheelchair frame.
- 2. Reposition the back canes to the desired height adjustment position.
- 3. Reinstall the mounting screws and locknuts that secure the back canes to the wheelchair frame and securely tighten.



*NOTE: Holes numbered from bottom to top for reference only. (There are no numbers on the back canes or wheelchair frame.)

FIGURE 8.3	Adjusting the	Back Height
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Replacing Seat Positioning Strap

NOTE: For this procedure, refer to FIGURE 8.4.

- 1. If necessary, remove the seat cushion from the seat upholstery.
- 2. Remove the two rear phillips screws and washers that secure the seat upholstery and seat positioning strap to the crossbraces.
- 3. Remove the two halves of the seat positioning strap from the crossbraces.
- 4. Position the two new seat positioning strap halves between the seat upholstery and the crossbraces.
- 5. Reinstall the rear phillips screws and washers that secure the seat upholstery and seat positioning strap to the crossbraces.

NOTE: Washer is positioned on top of seat upholstery.

6. If necessary, reinstall the seat cushion onto the seat upholstery.

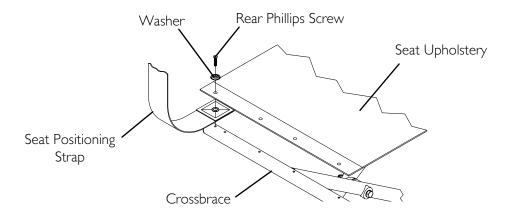


FIGURE 8.4 Replacing Seat Positioning Strap

SECTION 9—JOYSTICK

After ANY adjustments, repair or service and before use, make sure that all attaching hardware is tightened securely - otherwise injury or damage may result.

Before performing any maintenance, adjustment or service verify that On/Off switch on the joystick is in the Off position.

Preparing the Joystick for Use

NOTE: For this procedure, refer to FIGURE 9.1.

NOTE: The joystick is factory installed on the right side of the wheelchair. To reposition the joystick onto the left side of the wheelchair, refer to <u>Repositioning the Joystick</u> on page 44. The joystick should be repositioned by a qualified technician.

- 1. Turn the adjustment lock lever to release the joystick mounting tube from the mounting bracket.
- 2. Slide joystick mounting tube to the desired position.
- 3. Turn the adjustment lock lever to secure the joystick mounting tube in the mounting bracket.

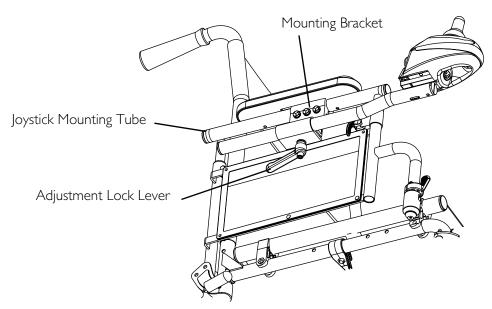


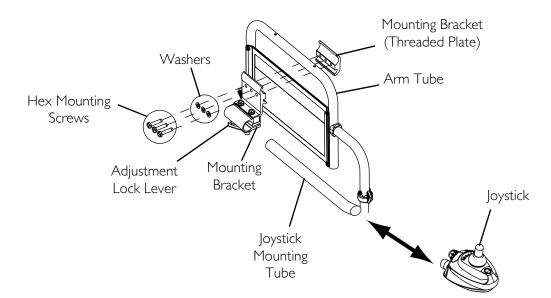
FIGURE 9.1 Preparing the Joystick for Use

Repositioning the Joystick

NOTE: For this procedure, refer to FIGURE 9.2.

NOTE: Before starting this procedure, it may be necessary to snip the tie-wraps (not shown in FIGURE 9.2) securing the joystick control cord to the wheelchair. Before snipping the tie-wraps, note the way the cord is secured to the chair so that it can be re-secured in the same way at the end of the procedure.

- 1. Turn the adjustment lock lever to release the joystick mounting tube from the mounting bracket.
- 2. Remove the joystick from the wheelchair.
- 3. Remove the three hex screws that secure both halves of the mounting bracket to the arm tube.
- 4. Reposition mounting bracket on opposite arm tube ensuring the threaded plate of the mounting bracket is on the inside of the arm tube.
- 5. Using the three hex mounting screws and washers, secure both halves of the mounting bracket to the arm tube.
- 6. Slide the joystick mounting tube through the mounting bracket to the desired position.
- 7. Turn the adjustment lock lever to secure the joystick mounting tube into the mounting bracket.
- 8. If the tie-wraps securing the joystick control cord to the wheelchair were snipped at the beginning of this procedure, re-secure the cord to the wheelchair with new tie-wraps in such a way that the control cord will not be pinched or cut during operation of the wheelchair.





SECTION IO-CASTERS

After ANY adjustments, repair or service and before use, make sure that all attaching hardware is tightened securely - otherwise injury or damage may result.

Before performing any maintenance, adjustment or service verify that On/Off switch on the joystick is in the Off position.

CAUTION

As with any vehicle, the wheels, casters and tires should be checked periodically for cracks and wear and should be replaced.

Adjusting Forks

NOTE: For this procedure, refer to FIGURE 10.1.

- 1. Remove the dust cover from the caster headtube.
- 2. To properly tighten caster journal system and guard against flutter, perform the following check:
 - A. Remove battery boxes and battery tray from wheelchair. Refer to <u>Removing/Installing the Battery Boxes</u> on page 49 and <u>Installing/Removing</u> <u>Battery Tray</u> on page 50.
 - B. Tip back the wheelchair to floor.
 - C. Pivot both forks and casters to top of their arc simultaneously.
 - D. Let casters drop to bottom of arc (wheels should swing once to one-side, then immediately rest in a straight downward position).
 - E. Adjust locknuts according to freedom of caster swing.
- 3. Test wheelchair for maneuverability.
- 4. Readjust locknuts if necessary, and repeat STEPS 1-3 until correct.
- 5. Snap dust cover into the caster headtube.

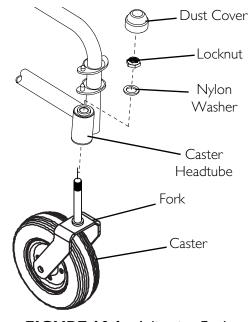


FIGURE 10.1 Adjusting Forks

SECTION II—BATTERIES

After ANY adjustments, repair or service and before use, make sure that all attaching hardware is tightened securely - otherwise injury or damage may result.

The use of rubber gloves is recommended when working with batteries.

Before performing any maintenance, adjustment or service verify that On/Off switch on the joystick is in the Off position.

When to Charge Batteries

NOTE: For this procedure, refer to FIGURE 11.1.

Recharge the batteries frequently. Do not wait until the battery charge is low to recharge. A battery's life is extended if the charge level is maintained well above a low condition.

The information gauge is the primary source of user feedback. The true state-of-battery-charge notification is as follows:

- Any GREEN LED lit: Batteries are at full or well charged.
- Only AMBER and RED LEDs lit: Batteries are moderately charged. Recharge before undertaking a long trip.
- Only RED LED lit: Battery charge is low. Recharge as soon as possible.

NOTE: Accurate readings are displayed when the joystick is in neutral.

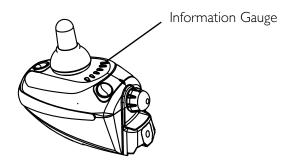


FIGURE II.I When to Charge Batteries

Charging Batteries

Never attempt to recharge the batteries by attaching cables directly to the battery terminals or clamps. Use the recharging plug located on the front of the joystick.

DO NOT attempt to recharge the batteries and operate the power wheelchair at the same time.

During use and charging, unsealed batteries will vent hydrogen gas which is explosive in the right concentration with air. Follow the manufacturer's charging instructions.

CAUTION

Always charge new batteries before initial use or battery life will be reduced.

NOTE: As a general rule, batteries should be recharged daily to assure the longest possible life and minimize the required charging time. Plan to recharge the batteries when it is anticipated the wheelchair will not be used for a long period of time.

The range per battery charge using recommended batteries should be approximately 5 to 9 hours of typical operation. Extensive use on inclines may substantially reduce per charge mileage.

Description and Use of Battery Chargers

The charger automatically reduces the charge from an initially high rate to a zero reading at a fully charged condition. If left unattended, the charger should automatically shut-off when full charge is obtained.

Some basic concepts which will help you understand this automatic process are:

The amount of electrical current drawn within a given time to charge a battery is called "charge rate". If, due to usage, the charge stored in the battery is low, the charge rate is high, as indicated by the green light on the charger. Initially, the green light will stay illuminated for a short period of time followed by a longer period of off time. As a charge builds up, the charge rate is reduced, and the green light will stay illuminated for a longer period of time followed by a shorter off time.

NOTE: If performing the charging procedures independently, READ and CAREFULLY follow the individual instructions for each charger (supplied or purchased).

NOTE: If charging instructions are not supplied, consult a qualified service technician for proper procedures. Required items:

TOOLS	QUANTITY	COMMENTS
Battery charger *Extension cord		Supplied Not Supplied

*NOTE: 3-prong plug, 15 ampere current rating; industrial type



Connecting the Battery Charger

NOTE: For this procedure, refer to FIGURE 11.2.

- 1. Attach the battery charger connector to the charger port on the joystick.
- 2. Plug the charger's AC power cord, or extension, into the grounded 120 VAC wall outlet.
- 3. Wait until charging is complete.

NOTE: If the batteries need to be charged more often or take longer to charge than normal, they may need to be replaced. Contact an ProBasics dealer for service.

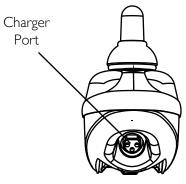


FIGURE 11.2 Connecting the Battery Charger

Replacing the Batteries

∆ WARNING

Most batteries are not sold with instructions. However, warnings are frequently noted on the cell caps. Read them carefully, otherwise injury or damage can occur. The use of rubber gloves is recommended when working with batteries.

NOTE: ProBasics recommends that both batteries be replaced if one battery is defective.

Recommended Battery Types

A WARNING

The warranty and performance specifications contained in this manual are based on the use of deep cycle gel cell. ProBasics strongly recommends their use as the power source for this unit.

CAUTION

Failure to use the correct battery size and/or voltage may cause damage to your wheelchair and give you unsatisfactory performance.

CHAIR SEAT WIDTH	QTY	VOLTS	BATTERY SIZE	REMARKS
18- inches	2	2	UI	Deep Cycle
18-inches	2	2	Group 22NF	Deep Cycle

1. Remove the battery boxes and tray from the wheelchair. Refer to <u>Removing/Installing</u> <u>the Battery Boxes</u> on page 49 and <u>Installing/Removing Battery Tray</u> on page 50.

PROBASICS

- 2. Remove the existing batteries from the battery boxes. Refer to <u>Installing/Removing</u> <u>Batteries Into/From Battery Boxes</u> on page 51.
- 3. Clean the new battery terminals.
- 4. Install the new batteries into the battery boxes. Refer to <u>Installing/Removing Batteries</u> <u>Into/From Battery Boxes</u> on page 51.
- 5. Install the battery boxes and tray onto the wheelchair. Refer to <u>Removing/Installing</u> <u>the Battery Boxes</u> on page 49 and <u>Installing/Removing Battery Tray</u> on page 50.

Cleaning Battery Terminals

A WARNING

DO NOT allow the liquid in the battery to come in contact with skin, clothes or other possessions. It is a form of acid and harmful or damaging burns may result. Should the liquid touch your skin, wash the area immediately and thoroughly with cool water. In serious cases or if eye contact is made, seek medical attention IMMEDIATELY.

NEVER smoke or strike a match near batteries. If the caps of the battery cells are removed, NEVER look directly into them while charging batteries.

- 1. Examine battery clamps and terminals for corrosion.
- 2. Verify that the plastic caps are in place over the battery cell holes.
- 3. Clean the terminals and inside the battery clamps by using a battery cleaning tool, wire brush, or medium grade sand paper.

NOTE: When done, these areas should be shiny, not dull.

4. Carefully dust off all metal particles.

Removing/Installing the Battery Boxes

NEVER unplug the battery cables by pulling on the wires. Unplug the battery cables by pulling on the connector **ONLY**. Otherwise injury or damage may result.

NOTE: For this procedure, refer to FIGURE 11.3 on page 50.

NOTE: To remove the battery boxes from the wheelchair, reverse the following procedure.

- 1. Verify that the On/Off switch on the joystick is in the Off position.
- 2. Place the front battery box onto the battery tray and connect controller connector to the front battery box. Refer to Electronics Manual (P/N 1123804).
- 3. Slide front battery box toward the front of the wheelchair.

- 4. Place rear battery box onto the battery tray and connect the rear battery box to the front battery box.
- 5. Connect the front battery box to the controller.

The battery box retaining strap MUST be fastened securely and adjusted properly to hold battery boxes in place before using the wheelchair.

6. Connect the battery box retaining strap clip together and adjust if necessary.

Installing/Removing Battery Tray

NOTE: For this procedure, refer to FIGURE 11.4.

NOTE: To remove the battery tray from the wheelchair, reverse the following procedure.

- 1. Attach the key slot bracket located at the front of the battery tray over the crossbrace bolt bushing under the seat upholstery of the wheelchair.
- 2. Attach the hanger brackets to the wheelchair frame.

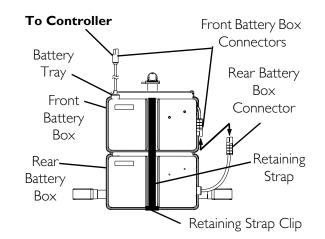


FIGURE 11.3 Removing/Installing the Battery Boxes

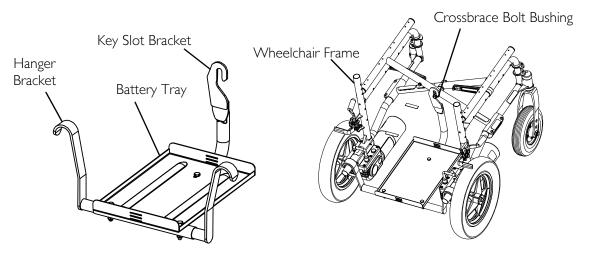


FIGURE 11.4 Installing/Removing Battery Tray

Installing/Removing Batteries Into/From Battery Boxes

Make sure power to the wheelchair is Off before performing this procedure.

The use of rubber gloves is recommended when working with batteries.

ProBasics strongly recommends that battery installation and battery replacement ALWAYS be done by a qualified technician.

After ANY adjustments, repair or service and before use, make sure all attaching hardware is tightened securely - otherwise injury or damage may result.

NOTE: For this procedure, refer to FIGURE 11.5 on page 52.

NOTE: For changing or removing/installing the battery boxes, refer to <u><i>Removing/Installing the</u></u> <u>*Battery Boxes*</u> on page 49.</u>

NOTE: To remove the battery(ies) from the battery box(es), reverse the following procedure.

NOTE: Have the following tools available:.

TOOL	QTY	COMMENTS
1/2-inch (6 pt.) Box Wrench	I	Not Supplied
7/16-inch (6pt) Box Wrench	I	Not Supplied
3/8-inch (6pt) Box Wrench	I	Not Supplied
Diagonal Cutters	I	Not Supplied

A WARNING

Always use the battery handle when lifting the battery. It is the most convenient method and assures that the battery acid will not spill. It also helps to prolong the life of the battery.

DO NOT tip the batteries. Keep the batteries in an upright position.

NOTE: If there is battery acid in the bottom or on the sides of the battery box(es) or battery(ies), apply baking soda to these areas to neutralize the battery acid. Before reinstalling the new or existing battery(ies), clean the baking soda from the battery box(es) or battery(ies).

NOTE: When securing battery lifting strap to battery, observe polarity markings located on the ends of the battery lifting strap, (+) side to POSITIVE (+) battery terminal/post and (-) side to NEGATIVE (-) battery terminal/post.

- 1. If necessary, remove the battery boxes from the wheelchair. Refer to <u>Removing/Installing the Battery Boxes</u> on page 49.
- 2. Secure the battery lifting strap to battery terminal(s)/post(s).

CAUTION

Some battery manufacturers mold a carrying strap and/or hold down flanges directly into the battery case. Batteries which interfere with the battery box cannot be used for these applications. Attempting to "wedge" a battery into a battery box may damage the box and/or the battery.

3. Place batteries into battery box bottom.

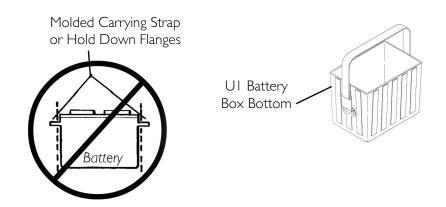


FIGURE 11.5 Installing/Removing Batteries Into/From Battery Boxes

Connecting Battery Cables

∆ WARNING

The use of rubber gloves is recommended when working with batteries.

NEVER allow any of your tools and/or battery cable(s) to contact BOTH battery terminal(s)/post(s) at the same time. An electrical short may occur and serious personal injury or damage may occur.

The correct battery terminal configurations shown in FIGURE 11.6 MUST be used. Batteries that have the reversed terminal configuration MUST NOT be used. Otherwise, serious injury or damage may occur.

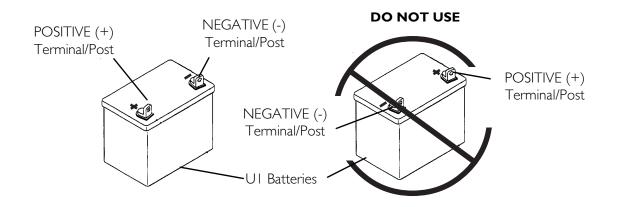


FIGURE 11.6 Connecting Battery Cables

NOTE: For this procedure, refer to FIGURE 11.7 on page 54.

- 1. Install battery terminal cap(s) onto battery cable(s):
 - A. ORANGE battery terminal cap onto RED battery cable.
 - B. GREY battery terminal cap onto BLACK battery cable.

CAUTION

When connecting the battery cables to the battery(ies), the battery cable(s) MUST be connected to the battery terminal(s)/post(s) as shown in Detail "A" or Detail "B" of FIGURE 11.7 (depending on battery type). Otherwise, damage to the battery cable may result when installing battery terminal caps.

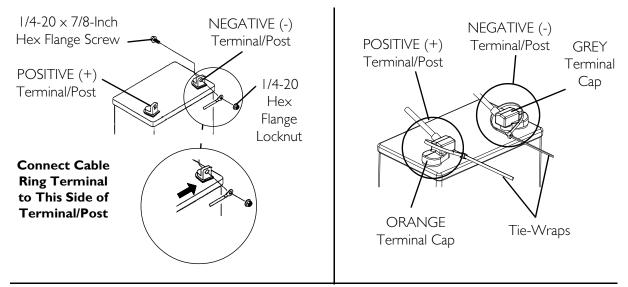
- 2. Connect battery cable(s) to battery(ies) terminal(s)/post(s) as shown in Detail "A":
 - A. NEGATIVE (-) BLACK battery cable to NEGATIVE (-) battery terminal/post.
 - B. POSITIVE (+) RED battery cable to POSITIVE (+) battery terminal/post.
- 3. Secure the battery cable(s)/ring terminal(s) to the battery terminal(s)/post(s), BLACK to NEGATIVE (-) and RED to POSITIVE (+), with the provided 1/4-20 x 7/8-inch hex flange screw and hex flange locknut as shown in Detail "A". Securely tighten.
- 4. Verify all battery cable(s)/ring terminal(s) are correctly installed and securely tightened.
- 5. Slide terminal cap(s) down battery cable(s) and onto battery clamps.
- 6. Using the 11¹/₂-inch long tie-wrap, secure each terminal cap in place (Detail "A").

NOTE: It will be necessary to trim excess tie-wrap in order to install the battery box top(s).

- 7. Install the battery box top(s).
- 8. Install the battery box(es) into the wheelchair. Refer to <u>Removing/Installing the</u> <u>Battery Boxes</u> on page 49.

NOTE: New battery(ies) MUST be fully charged before using, otherwise the life of the battery(ies) will be reduced.

9. If necessary, charge the battery(ies). Refer to <u>Charging Batteries</u> on page 47.



Detail "A" - Dual UI Batteries

Detail "B" - Installing Battery Terminal Cap onto Battery Cable

NOTE: For clarity, only one cable and terminal cap are shown. Both caps install in the same manner.

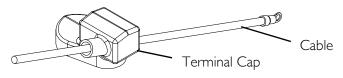


FIGURE 11.7 Connecting Battery Cables

Replacing Battery Box Retaining Strap

A WARNING

The battery box retaining strap MUST be fastened securely and adjusted properly to hold battery boxes in place before using the wheelchair.

NOTE: For this procedure, refer to FIGURE 11.8 on page 55.

- 1. Remove the battery boxes from the wheelchair. Refer to <u>Removing/Installing the</u> <u>Battery Boxes</u> on page 49.
- 2. Remove the battery tray from the wheelchair. Refer to <u>Installing/Removing Battery</u> <u>Tray</u> on page 50.

The retaining strap MUST be fed through the adjustable end of the battery box retaining strap buckle as shown in FIGURE 11.8.

NOTE: Take note of the position and orientation of the battery box retaining strap as it passes through the slots of the battery tray and the adjustable end of the battery box retraining strap buckle.

PROBASICS

- 3. Feed the existing battery box retaining strap through the adjustable end of the battery box retaining strap buckle.
- 4. Feed the existing battery box retaining strap through the slots in the battery box tray.
- 5. Install the new battery box retaining strap by reversing STEPS 3 and 4.
- 6. Reinstall the battery tray from the wheelchair. Refer to <u>Installing/Removing Battery</u> <u>Tray</u> on page 50.
- 7. Reinstall the battery boxes from the wheelchair. Refer to <u>Removing/Installing the</u> <u>Battery Boxes</u> on page 49.

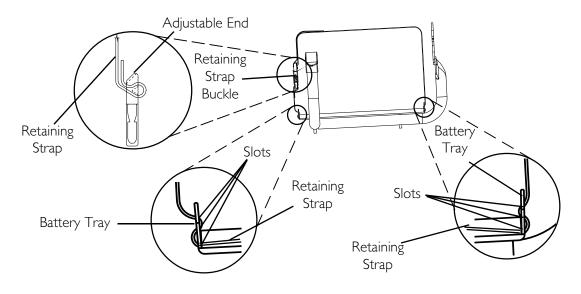


FIGURE 11.8 Replacing Battery Box Retaining Strap

SECTION 12—CLUTCH/MOTOR LOCK

\triangle warning

After ANY adjustments, repair or service and before use, make sure all attaching hardware is tightened securely - otherwise injury or damage may result.

Engaging/Disengaging the Clutches

A WARNING

DO NOT engage or disengage the clutches until the power is Off.

NOTE: For this procedure, refer to FIGURE 12.1.

The clutch engagement/disengagement allows freewheeling or joystick controlled operation. Freewheeling allows an attendant to maneuver the wheelchair without power. To engage/disengage the clutches:

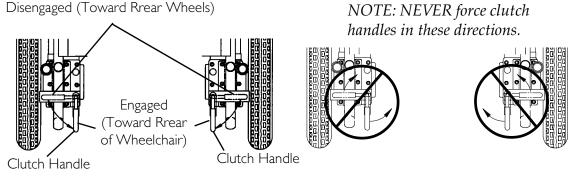
1. Locate the clutch handles on motors.

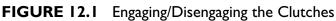
A WARNING

If clutch handles are forced to engage in the wrong direction as shown in FIGURE 12.1, the motors will be damaged and will need to be replaced.

- 2. Perform one of the following:
- To Engage: turn the clutch handles until they are pointing towards the rear of the wheelchair. NEVER try to turn the clutch handles towards the front of the wheelchair.
- To Disengage: turn the clutch handles until they are pointing towards the rear wheels. NEVER try to turn the clutch handles towards the inside of the wheelchair.

Top View Of Wheelchair





SECTION 13—WHEEL LOCKS

After ANY adjustments, repair or service and before use, make sure all attaching hardware is tightened securely - otherwise injury or damage may result.

Installing/Adjusting/Using the Wheel Locks

NOTE: For this procedure, refer to FIGURE 13.1 on page 58.

Installing/Adjusting

NOTE: Before adjusting or replacing the wheel lock assemblies, ensure that the tires are inflated to the recommended psi on the side wall of tire.

NOTE: If necessary, remove threaded plastic insert from the wheel lock mounting hole in the wheelchair frame.

- 1. Position the wheel lock on the wheelchair frame.
- 2. Loosely install the hex screw and locknut that secures the wheel lock to the wheelchair frame.
- 3. Make sure wheel lock is disengaged from rear wheel.
- 4. Measure the distance between the wheel lock shoe and the rear wheel.
- 5. Slide the wheel lock along the wheelchair until the measurement is between 5/32 and 5/16-inches.
- 6. Tighten the wheel lock to the wheelchair frame.
- 7. Repeat STEPS 2-6 for the opposite wheel lock.
- 8. Disengage the clutches. Refer to <u>Engaging/Disengaging the Clutches</u> on page 56.
- 9. Engage the wheel locks and push against the wheelchair to determine if the wheel locks engage the rear wheels enough to hold the wheelchair.
- 10. Repeat STEPS 3-9 until the wheel locks engage the rear wheels enough to hold the wheelchair.
- 11. Engage clutches. Refer to Engaging/Disengaging the Clutches on page 56.

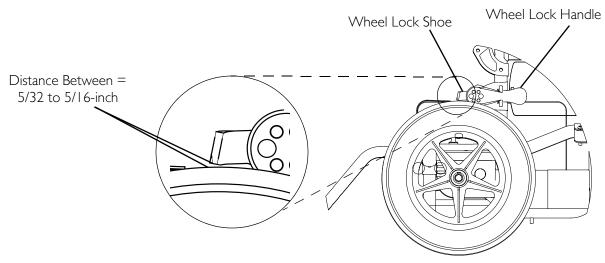


FIGURE 13.1 Installing/Adjusting/Using the Wheel Locks

Using

The wheelchair is equipped with a pair of independently operated wheel locks located just in front of the rear wheels.

- 1. To engage the wheel locks, grip the handle and push forward to the lock position.
- 2. To release, reverse STEP 1.

CAUTION

DO NOT use the wheel locks when the wheelchair power is on and the clutches are engaged - otherwise damage to the wheelchair may result.

NOTE: Use the wheel locks whenever the clutches are disengaged and the wheelchair is being pushed.

SECTION 14—ANTI-TIPPERS

After ANY adjustments, repair or service and before use, make sure all attaching hardware is tightened securely - otherwise injury or damage may result.

Installing/Removing/Adjusting Anti-Tippers

NOTE: For this procedure, refer to FIGURE 14.1 on page 60.

Installing

Anti-tippers MUST be fully engaged and spring buttons fully protruding out of adjustment holes before using the wheelchair.

Ensure both anti-tippers have the same ground clearance.

A $1\frac{1}{2}$ to 2-inch clearance between the bottom of the anti-tipper wheels and the ground/floor MUST be maintained at all times.

Anti-tippers MUST be used at all times. When outdoors on wet, soft ground or gravel surfaces, anti-tippers may not provide the same level of protection against tipover. Extra caution must be observed when traversing such surfaces.

- 1. Press the two release buttons in and insert the anti-tippers with anti-tipper wheels pointing toward the ground/floor into the support tubes until the release buttons lock in place.
- 2. Measure the distance between the bottom of the anti-tipper wheels and the ground/floor and ensure that it is 1½-2-inches. If necessary, adjust height. To adjust the height of the anti-tippers, refer to <u>Adjusting Height</u> on page 59.

Removing

1. Press release buttons in and remove the anti-tippers from the support tubes.

Adjusting Height

1. Press the release buttons in and adjust the anti-tippers to the desired height.

NOTE: The distance between the bottom of the anti-tipper wheels and the ground/floor MUST be 1½ to 2-inches.

NOTE: Both anti-tippers should be adjusted to the same height.

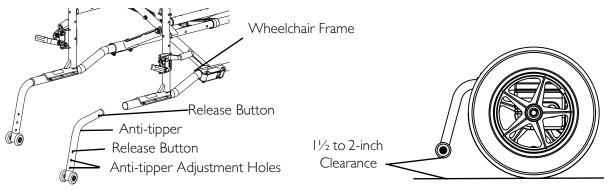


FIGURE 14.1 Installing/Removing/Adjusting Anti-Tippers

SECTION 15-TRANSPORTING

After ANY adjustments, repair or service and before use, make sure all attaching hardware is tightened securely - otherwise injury or damage may result.

Transporting the Wheelchair

The weight of the wheelchair without the user and batteries is approximately 82 lbs. Use proper lifting techniques (lift with your legs) to avoid injury. Extreme caution is advised when it is necessary to move an unoccupied power wheelchair. ProBasics recommends using two assistants and making thorough preparations. Make sure to use ONLY secure, non-detachable parts for hand-hold supports.

NOTE: For this procedure, refer to FIGURE 15.1 on page 62.

Unfolding/Folding the Wheelchair

Keep hands and fingers clear of moving parts to avoid injury.

DO NOT place hand or fingers on the underside of the seat rail when opening or closing the wheelchair.

DO NOT sit or transfer into the wheelchair unless it is fully open and the seat rails are fully seated into the side frame H-blocks.

Unfolding

- 1. Push down on the seat rails until the seat rails are positioned in the seat guides.
- 2. Assemble the wheelchair by following the instructions in this manual.

Folding

- 1. Remove the anti-tippers. Refer to <u>Installing/Removing/Adjusting Anti-Tippers</u> on page 59.
- 1. Remove the batteries. Refer to <u>Removing/Installing the Battery Boxes</u> on page 49.
- 2. Remove the footrests/legrests from the wheelchair. Refer to <u>Installing/Removing/Using the Footrest/Legrest</u> on page 33.
- 3. Remove the battery tray from the wheelchair. Refer to <u>Installing/Removing Battery</u> <u>Tray</u> on page 50.
- 4. Lift up on the seat rails of the wheelchair.

Part No. 1123839



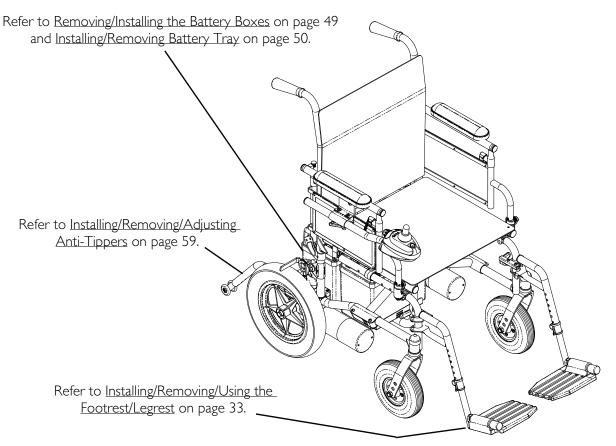


FIGURE 15.1 Transporting the Wheelchair

LIMITED WARRANTY

PLEASE NOTE: THE WARRANTY BELOW HAS BEEN DRAFTED TO COMPLY WITH FEDERAL LAW APPLICABLE TO PRODUCTS MANUFACTURED AFTER JULY 4, 1975.

This warranty is extended only to the original purchaser/user of our products.

This warranty gives you specific legal rights and you may also have other legal rights which vary from state to state.

With regards to the original purchaser/user only, ProBasics warrants the front and rear frames to be free from defects in materials and workmanship for a period of three years from date of purchase; seat frame for a period of three years from the date of purchase; electronics, motors and gearboxes for a period of one year from the date of purchase; all remaining components for one year from the date of purchase; all remaining components for one year from the date of purchase except upholstered materials, padded materials and tires/wheels. If within such warranty period any product shall be proven to be defective, such product shall be repaired or replaced, at ProBasics' option. This warranty does not include any labor or shipping charges incurred in replacement part installation or repair of any such product. ProBasics' sole obligation and your exclusive remedy under this warranty shall be limited to such repair and/or replacement.

For warranty service, please contact the dealer from whom you purchased your ProBasics product. In the event you do not receive satisfactory warranty service, please contact ProBasics at the address on the bottom of the back cover. Provide dealer's name address, date of purchase, indicate nature of the defect and, if the product is serialized, indicate the serial number. Do not return products to ProBasics without our prior consent.

Limitations and Exclusions: The foregoing warranty shall not apply to serial numbered products if the serial number has been removed or defaced, products subject to negligence, accident, improper operation, maintenance or storage, commercial or institutional use, products modified without ProBasics' express written consent including, but not limited to, modification through the use of unauthorized parts or attachments; products damaged by reason of repairs made to any component without the specific consent of ProBasics, or to a product damaged by circumstances beyond ProBasics' control, and such evaluation will be solely determined by ProBasics. The warranty shall not apply to problems arising from normal wear or failure to adhere to these instructions. A change in operating noise, particularly relative to motors and gearboxes does not constitute a failure. All such devices will exhibit a change in operating noise due to aging.

The foregoing express warranty is exclusive and in lieu of any other warranties whatsoever, whether express or implied,

including the implied warranties of merchantability and fitness for a particular purpose, and the sole remedy for violations of any warranty whatsoever, shall be limited to repair or replacement of the defective product pursuant to the terms contained herein, the application of any implied warranty whatsoever shall not extend beyond the duration of the express warranty provided herein. **ProBasics** shall not be liable for any consequential or incidental damages whatsoever.

THIS WARRANTY SHALL BE EXTENDED TO COMPLY WITH STATE/PROVINCIAL LAWS AND REQUIREMENTS.



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