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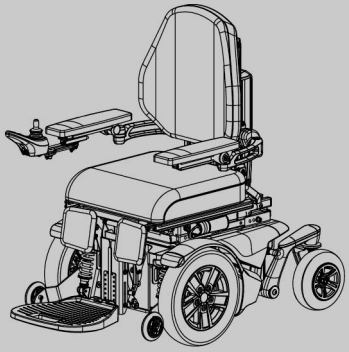
Owner's Manual



Power Chair P335

Table of Contents

Welcome aboard your new powerbase wheelchair, and thank you for choosing our product. Please read this manual carefully, and follow all instructions before attempting to operate your powerbase wheelchair for the first time. If there is anything in this manual that you do not understand, or if you require additional assistance for setting up your powerbase wheelchair, please contact your local dealer.

This latest model is designed for specific practical user needs, combining solid, rugged construction, and modern high-tech electronics, to enhance safety and performance.

With a state-of-the-art, programmable electronic control system, your powerbase wheelchair can be programmed and adjusted within a given range of its performance characteristics, to suit your individual needs. The controller is set up at the factory to give the powerbase wheelchair nominal operating performance characteristics.

After becoming familiar with the basic operation of the powerbase wheelchair, you may wish to customize the settings to fit your own personal preferences. A wide range of customization options can be adjusted such as acceleration, deceleration, maximum speed, turning speed, safety controls, better maneuverability of the joystick, and so on. Contact your local dealer for advice on additional equipment you may need.

Having your powerbase wheelchair checked regularly by your local dealer is the best way to ensure smooth operation, and safety.

This manual provides users practical tips and information on safety issues, operation, and maintenance. Please read it very carefully to ensure your maximum enjoyment and to fully benefit from your independence and mobility.

Whenever special advice or attention is needed, please do not hesitate to contact your local dealer, who has the tools and know-how to provide expert servicing for your powerbase wheelchair.

Your satisfaction and opinions are highly valued by both your local dealer and our company. Please be sure to fill out the enclosed guarantee form, and return it to your local dealer. The information is necessary for providing you with the best service, and to be sure all of your needs are met.

■ **Indications For Use**

The Merits P335 Powered Wheelchair is to provide indoor and outdoor mobility to persons limited to a seating position that are capable of operating a powered wheelchair.

⚠Cautions Federal law restricts this device to sale by or on the order of a physician. For applicable countries.

■**Quantity of Contents**

The device is divided into two packages: Base Unit and Seating System. The quantity of contents are as following:

Base Unit Package

Item	Component	Quantity	Note(Sold separately)
1	Power Base	1	
2	Joystick	1	V
3	Charger	1	V
4	Owner's manual	1	
5	Battery connecting wire	2	V
6	Tool kit	1	V

Seating System Package

Item	Component	Quantity	Note(Sold separately)
1	Seat	1	
2	Cushion	1	V
3	Back Cushion	1	V
4	Owner's manual	1	
5	Footplate	1	V

■ Device Description

Merits Flux-P335 Powered Wheelchair is battery powered, front wheel motor driven and is controlled by the PG power wheelchair R-Net 120amp controller. The user interface is a joystick. P335 is powered by two 12 VDC 60ah (M34) batteries. The batteries are charged by a 6A off-board charger connected with 3-pin Microphone Connector to the charging socket on the joystick. The approximate driving range on fully charged batteries is up to 32km (20mi). The chair frame is a rived nut and welded steel construction and includes two front drive wheels with drive units (including motor, gear and brake), batteries and rear pivoting casters. Depending on user needs, the joystick motor control is mounted to the left or right armrest. When the user activates the joystick, the controller receives a signal to release the brakes. With the brakes released, the wheelchair is allowed to move in the direction the joystick is actuated. When the user releases the joystick, the chair slows to a stop and the brakes are automatically re-engaged . The solenoid electromechanical brakes allow the user to stop by letting go of the joystick.

The upholstery of the device complies with ISO 7176-16:2012 Resistance to ignition of postural support devices.

The device can be operated on dry, level surfaces composed of concrete, blacktop, or asphalt under normal driving conditions.

The Merits Flux-P335 Positioning System for Powered Wheelchair is designed for use with power wheelchairs. The Seating System for Powered Wheelchair use the Merits Model P335 Power Wheelchair as the base unit for the tilting, reclining and elevating System. The Seating System and base unit is to be sold together. Model P335 Powered Wheelchair is battery powered, center wheel motor driven and is controlled by the PG power wheelchair controller. The user interface is a joystick. P335 is powered by two 12 VDC 60ah batteries. The batteries are charged by 6A off-board charger connect with 3-pin Microphone Connector to charging socket on joystick. The approximate driving range on fully charged batteries is up to 32km(20mi) The chair frame is a rived nut and welded steel construction and includes two front drive wheels with drive units (including motor, gear, brake), batteries and front and rear pivoting casters. Depending on users needs, the joystick motor control is mounted to the left or right armrest. When the user activates the joystick, the controller receives a signal to release the brakes. With the brakes released, the wheelchair is allowed to move in the direction the joystick is actuated. When the user releases the joystick, the chair slows to a stop and the brakes are automatically re-engaged. The solenoid electromechanical brakes allow the user stop by letting go of the joystick.

The intended function of the Seating System for Powered Wheelchair is to aid in the pressure relief of persons confined to a wheelchair, by providing a method of tilting the seat and reclining the seat back.

The Seating System consists of tilt, recline, shear reduction and power elevating seat modules. The tilting, reclining and elevating systems are separate modules and are independent of each other. As such, they will be offered as either a complete tilt/recline system, or as a separate tilt system or reclining system depending upon the user' needs.

The tilting, reclining and elevating systems are actuated by 24V DC motorized linear actuator. The tilt system include one motorized linear actuator (Manufacturer: MBL / Model: MBL Tilt 50°) causes the seat frame to shift forward. This enhances stability since the center of gravity is kept substantially in place while the user is tiliting.

The recline system include one motorized linear actuator (Manufacturer: Moteck / Model: TA16-5G-110252-36221-00AA-11)change the position of the backrest with respect to the seat pan.

Failure to follow these instructions may result in damage to the powerbase wheelchair or serious injury.

Practice Before Operating

Find an open area such as a park and have an assistant to help you practice until you have confidence operating this vehicle.

Make sure that the power is off before getting in or out of the seat. Set the speed control button according to your driving ability.

We recommend that you keep the speed control at the slowest position until you are familiar with the driving characteristics of this vehicle.

R-Net

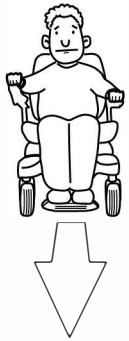
Refer to page 35 for an explanation of the various control panel functions.

R-NET LED

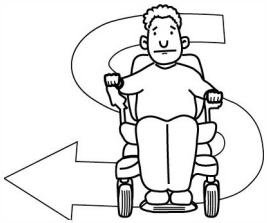
Getting familiar with this vehicle

⚠ SAFETY WARNING

YOUR AUTHORIZED DEALER, PROVIDER, THERAPIST(S), AND/OR OTHER HEALTHCARE PROFESSIONALS ARE RESPONSIBLE FOR DETERMINING YOUR REQUIREMENT FOR A SEAT BELT FOR SAFE OPERATION OF YOUR MOBILITY DEVICE.
REQUIRING A SEAT BELT TO SAFELY OPERATE YOUR MOBILITY PRODUCT, MAKE SURE IT IS FASTENED SECURELY IN ORDER TO REDUCE THE POSSIBILITY OF A FALL FROM THE MOBILITY PRODUCT.



First, practice moving forward.
Be sure to set the speed to the lowest setting.



After becoming familiar with moving forward, practice making "S" turns.

Once you are familiar with "S" turns, practice moving in reverse. Note that at any speed control setting, the vehicle moves more slowly in reverse than forward

Safety Considerations

DO NOT do any of the following

NO!

Do not carry any passengers

NO!

Do not drive across a slope

NO!

Do not drink and drive

Consult your physician to determine if your medications impair your ability to control this vehicle

NO!

Do not tow a trailer

NO!

Do not turn on or use hand-held personal communication devices such as citizens band(CB) radios and cellular phones

Occupied Motor Vehicle Transport

The power chair user should transfer into the vehicle seat and use the vehicle-installed restraint system if and whenever feasible. The power chair should then be stored and secured in the vehicle.

If it is found necessary at the user's discretion to secure a power chair to a vehicle, the vehicle must be equipped with a Wheelchair Tie-down and Occupant Restraint System that has been installed in accordance with the tie-down manufacturer's instructions. It is essential to use a complete Wheelchair Tie-down and Occupant Restraint System to secure the power chair to the vehicle and to provide the power chair occupant with a properly designed and tested safety restraint system. A restraint system with both pelvic and upper-torso belts must be used to protect the power chair occupant and minimize the likelihood of injury caused by contact with the vehicle during a crash or sudden braking.

Seat

The level of resistance to ignition of materials and assemblies: Materials are tested according to EN1021-1, -2(seat, armrests).

Electrical components

The level of resistance to ignition of materials and mains current are tested according to UL94-V0.

Note: The product comply with EN 12184 Class B standard.

Note: This product can be used for temperature -8°C~50°C on the hard ground environment.

⚠ Warnings

- **WARNING!** No alterations or substitutions should be made to the power chair securement points or to the structural frame components without prior consent from your authorized provider.
- **WARNING!** Belt restraints must not be held away from the body by power chair components such as armrests or wheels.
- **WARNING!** Belt restraints should make full contact with the shoulder and chest and pelvic restraints should be positioned low across the front of the body near the junction of the thigh and pelvis.
- **WARNING!** The buckle of belt restraint systems should not be located near power chair components that may come in contact with the buckle release button in the event of a vehicle accident or collision.
- **WARNING!** The power chair should be inspected by a representative of the manufacturer before reuse following involvement in any type of vehicle collision.
- **WARNING!** For your safety, please read the owner's manual before operating this product. Before reading through the owner's manual, please do not operate the product.
- **WARNING!** For your safety, when you operate the product or before you operate the product, if you find any problem, please stop operating the product immediately and contact with the dealer for solving the problem.
- **WARNING!** For your safety, the user should be comply with the following condition for operating the product:
  1. Spirits in good condition, can clearly distinguish the surroundings condition and physical function are normal to operate the scooter.
  2. After drinking or eating of alcoholic beverages or food, do not operate the product.
  3. Before operating the scooter, do not take medicine which might affect sanity or mental state.
- **WARNING!** For your own safety, Visually Impaired person do not operate this product.
- **WARNING!** Do not operate the product with depleted batteries since the occupant could be stranded.
- **WARNING!** If component of the product surface (such as shroud, seat, armrest, joystick handles, etc.) exposures to the sun, this may cause high temperature on the part surface, the high temperatures may cause dange rs. Please use the product, when the surface is cool down.

⚠ Warnings

- **DO NOT** use an escalator to move a wheelchair between floors. Serious bodily injury may occur.
- **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** shift your weight or sitting position toward the direction you are reaching as the wheelchair may tip over backwards or sideways.
- **DO NOT** tip or wheel the wheelchair without assistance, unless you are highly skilled.
- **DO NOT** attempt to stop a moving wheelchair with wheel locks. Wheel locks are not brakes.
- **DO NOT** stand on the frame of the wheelchair.
- ALWAYS use caution when transferring in or out of the wheelchair. Every precaution should be taken to reduce the transfer distance. Also be certain the wheel locks are engaged to prevent the wheels from moving.
- **DO NOT** operate the power wheelchair with depleted batteries since the occupant could be stranded. The remaining distance is less than 1km when the battery gage flashes slowly.

⚠ Cautions

- Riding over curbs or obstacles can cause tipping and serious bodily harm. If you have any doubt that you can safely cross any curb or obstacle, ALWAYS ASK FOR HELP. Be aware of your riding skills and personal limitations. Develop new skills only with the help of a companion.
- The wheelchair is not designed for weight training and is unsafe for use a seat while weight training. Weight training from the wheelchair substantially changes the stability of the chair and may cause tipping.

EMC

This vehicle has an immunity level of 20 v/m which should protect it from Electromagnetic Interference(EMI) from radio wave sources. The rapid development of electronics, especially in the area of communications, has saturated our environment with electromagnetic (radio) waves that are emitted by television, radio and communication signals. These EM waves are invisible and their strength increases as one approaches the source. All electrical conductors act as antennas to the EM signals and, to varying degrees, all power wheelchairs and power scooters are susceptible to electromagnetic interference (EMI). This interference could result in abnormal, unintentional movement and/or erratic control of the vehicle.

Powered wheelchairs and electric power scooters (in this text, both will be referred to as powered wheelchairs) may be susceptible to electromagnetic interference (EMI), which is interfering electromagnetic energy 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 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 the "immunity level." The higher the immunity level, the greater the protection. At this time, current technology is capable of providing at least 20 v/m of immunity level which would provide useful protection against common sources of radiated EMI.
Following the warnings listed below should reduce the chance of unintended brake release or powered wheelchair movement that could result in serious injury:

1) Do not turn on hand-held personal communucation devices such as citizens band (CB) radios and 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 interference from radio wave sources. (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 radio wave source nearby.

Warning: The wheelchair might disturb the operation of devices in its environment that emit electromagnetic fields (e.g. alarm systems of shops, automatic doors)

TURN OFF YOUR POWER WHEELCHAIR AS SOON AS POSSIBLE WHEN EXPERIENCING ANY OF THE FOLLOWEING:

1. Unintentional motions.
2. Unintended or uncontrollable direction.
3. Unexpected brake release.

The FDA has written to the manufacturers of power wheelchairs, asking them to test their new products to be sure they provide a reasonable degree of immunity against EMI. The letter says that powered wheelchairs should have an immunity level of at least 20 V/m, which provide a reasonable degree of protection against the more common sources of EMI. The higher the level, the greater the protection.

Driving Outdoors

When you are on the road, please pay attention to the following:

NO!

Do not drive in traffic.

NO!

Do not drive beside a river, port, or lake without a fence or railing.

NO!

If possible, do not drive during the rain.

NO!

If possible, do not drive during or on snow.

NO!

Do not drive off-road or on any uneven surfaced roads.

NO!

If possible, do not drive at night.

DO!

Make sure that there are no obstacles behind you when in reverse.

We recommend to set up the speed at the lowest setting for reversing.

NO!

Do not make sudden stops, weave erratically, or make sharp turns.

DO!

Keep your arms on or inside the armrests and feet on the footrest at all times.

NO!

Do not attempt to climb curbs greater that 1½"(4cm).

NO!

Do not attempt to cross over a gap greater that 3"(7.5cm).

■ Driving on Various Terrains

Driving on hills is more dangerous than on level surfaces. If you fail to heed these warnings, a fall, tip-over or loss of control may occur and cause severe injury to the vehicle user or others.

NO!

Do not attempt to climb a hill greater than 7.5°

(Refer to specification on page 17.)

NO!

Do not reverse while driving up a hill.

Forward only. If you reverse while moving up a hill, it may cause the vehicle to tip over.

(Refer to specification on page 17.)

NO!

Do not attempt to drive across a sloping surface greater that 3˚

Driving across a slope greater than 3˚ is very dangerous and may cause the vehicle to tip over.

NO!

Do not drive over soft, uneven or unprotected surfaces such as grass, gravel and decks.

DO!

Use low speed while driving down hill.

When braking while moving down hill, the wheelchair will take longer to come to a complete stop.

NO!

Do not get on and off on a hill.

Always stop on the level surface to get in and get out of the vehicle.

YES!

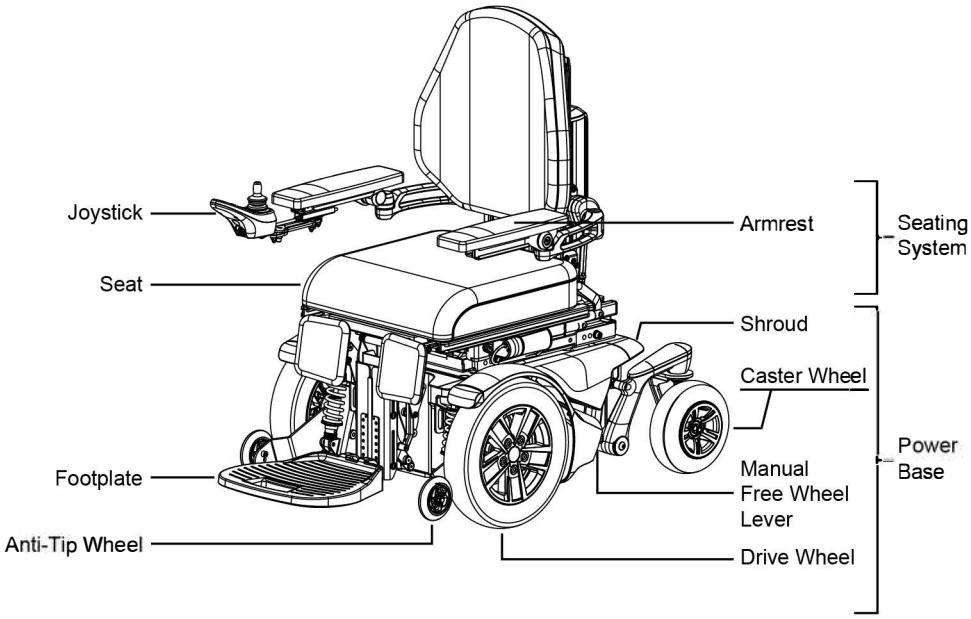
Always climb or descend gradients perpendicular to the slope or ramp.

Familiarize yourself with your powerbase wheelchair

■ Feature Diagram

In this section, we will acquaint you with the many features of your powerbase wheelchair and how they work. Upon receipt of your powerbase wheelchair, inspect it for any damage. Your powerbase wheelchair consists of the following components.

P335



Powerbase Wheelchair Specifications

Model No.	P335 (Rehab seat)
Length	46.5"
Width	25.25"
Seat Width	14"-22"
Seat Height (from ground)	17.5"-19.5"
Speed	up to 6mph
Range up to	12.2 miles
Weight Capacity	300lbs
Base Weight	147lbs
Seat Weight	22lbs
Battery Weight	38.5lbs *2pcs
Motor	DC 24V,210W(rating)
Brake	Intelligent ,regenerative, electromagnetic brakes
Controller	PG R-Net 120A
Battery	60AH × 2pcs
Charger	6A off-board
Gradient	7.5°
Caster Wheel	9" Foam Filled Tire
Drive Wheel	14" Foam Filled Tire
Recommended Storage and Shipping Temperature	Dry(15%~95% Non-Condensing), Well ventilated -4°F~140°F without batteries

Terminology

Joystick: The device used to "move" the powerbase wheelchair.

Controller: The device that allow joysticks to function. Not all joysticks have a controller.

Armrests: Where arms can rest during time spent on powerbase wheelchair.

Footrest: Where feet rest during time spent on the powerbase wheelchair.

Drive Wheel: The wheels that move the powerbase wheelchair. These are the main wheels.

Caster Wheel: The front wheels and the rear wheels.

Controller Harness : Cable connecting the joystick to the controller.

Freewheel Lever: For convenience, your powerbase wheelchair is equipped with freewheel levers. These levers allow you to disengage the drive motors and maneuver the chair manually.

Type B applied parts: seat, armrest, foot plate, joystick module.

Classification: Internal powered equipment by 24 VDC, Class II in charging mode.
Mains connection of battery charger: 100-120 VAC, 50/60 Hz.

Braking information: 1) Running brake: Your electrical wheelchair is equipped with electromagnetic and regenerative brakes. Uses electricity to rapidly slow the wheelchair when the joystick return to the center/stop position and act as a parking brake.

2) Parking brake: when joystick on center position act a electromagnetic brake. In freewheel mode an assistant has to operate the parking brake by engaging the drive system again. No battery power is necessary for this function.

> **WARNING: DO NOT** use the powerbase wheelchair without the presence of an attendant while the drive motors are disengaged! DO NOT disengage the drive motors when your powerbase wheelchair is on an incline, as the chair could roll down on its own, causing injury!

To engage or disengage the drive motors:

1. Turn the freewheel levers upward to disengage the drive motors.
2. Turn the freewheel levers downward on the front of the powerbase wheelchair to engage the drive motors.

Note: It is important to remember that when the powerbase wheelchair is in the freewheel mode, the braking system is disengaged.

Battery Removal:

(1) Turn off the power to the controller.
(2) Make sure that the power chair is in drive mode.
(3) Remove the rear cover by squeezing the release handles. (Fig A1)
(4) Lifting the rear cover up and away from the power base. (Fig A2)
(5) Disconnect the quick release battery connectors. (Fig A3)
(6) Remove the batteries. (Fig A4)

Fig A1

Fig A2

Fig A3

Fig A4

■ Armrest adjustment

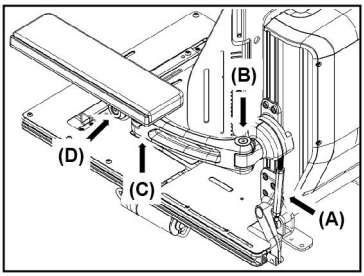


Fig B1

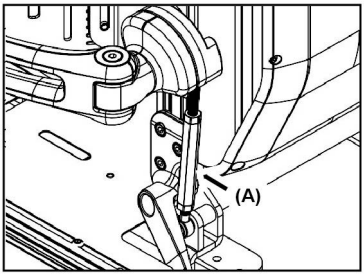


Fig B1-1

Angle adjustment:
(1) Position (A), use the hexagonal open-end wrench to adjust the upward and downward angles of the armrest assembly. (Fig B1-1)

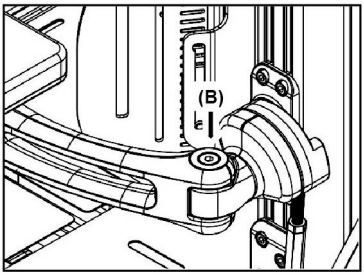


Fig B1-2

(2) Position (B), use a hexagon wrench to adjust the outward and inward angles of the armrest assembly. (Fig B1-2)

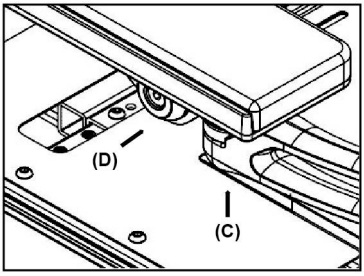


Fig B1-3

(3) Position (C), use a hex wrench to adjust the outward and inward angles of the armrest pad. (Fig B1-3)

(4) Position (D), use a hexagon wrench to adjust the upward and downward angles of the armrest pad. (Fig B1-3)

Joystick Adjustment

Fig C1

Adjustment of the joystick position
Swing back controller bracket. (Fig C1)

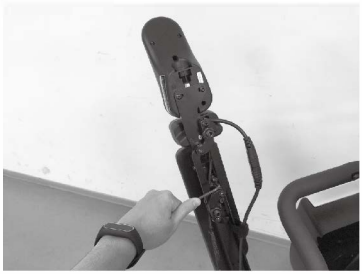


Fig C2

(1) Use Allen key to loosen both screws, then move controller bracket forward and backward to desired position, tretighten screws and lock armrest brace in receiver. (Fig C2)

Seat width adjustment

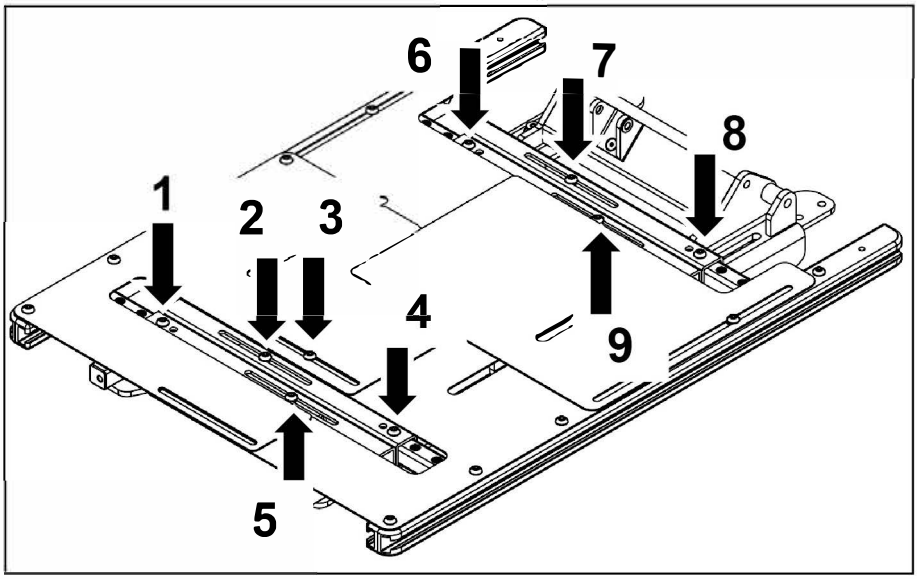


Fig D1

(1) Use a hexagonal wrench to remove 9 screws. The seat width is 14"~22", and the width of the seat can be adjusted every 2". After adjusting as required, tighten the 9 screws.(Fig D1-1, Fig D1-2)

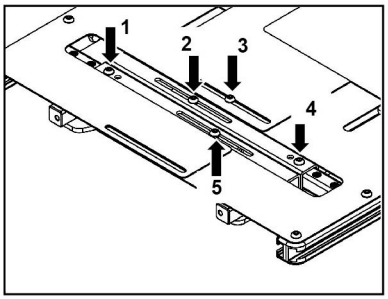


Fig D1-1

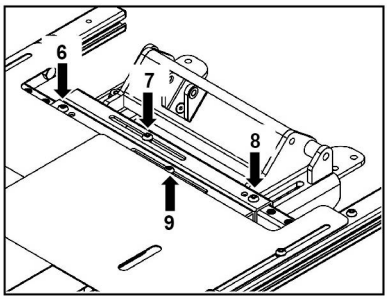


Fig D1-2

■ Seat depth adjustment

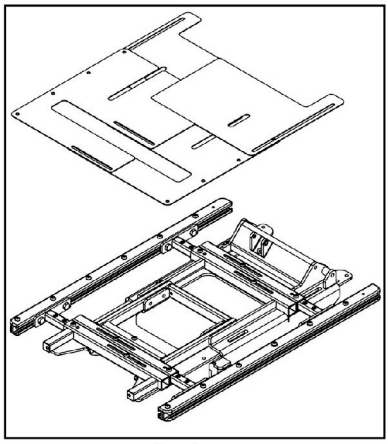


Fig D2-1

(1) Use a hex wrench to remove the screws and remove the 4 seat plates.(Fig D2-1)

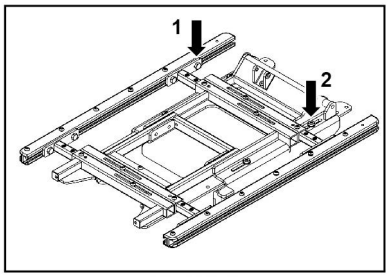


Fig D2-2

(2) Use a hex open-end wrench to loosen the No. 1 hex screw(total 8 pcs) without removing it.(Fig D2-2)

(3) Use a hexagon wrench to remove the No. 2 socket screw(total 4 pcs). (Fig D2-2)

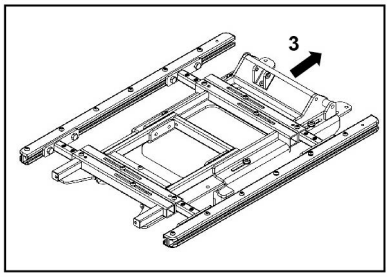


Fig D2-3

(4) Move the No. 3 chair frame group forward or backward to the desired position, 14"~20" can be adjusted, and each 1" can be adjusted.

■ Installation instructions

First check to ensure you have all components listed below :

Item	Name	Qty.
B1	POWER ARTICULATING FOOT PLATFORM	1
B2	SPRING WASHER ,M6*1.5T	2
B3	SCREW, M6*12L	2

⚠ SAFTY WARGING

Once the final adjustments are complete, with the user in standard driving position, ensure there is a gap between the lowest point of wheelchair (bottom of the footplate or bottom of leg length adjustment) and the driving surface (as shown in the table below). To accomplish this it may be necessary to raise the Footplate to Floor Height which is adjustable in 0.6"(16mm) increments. Failure to do so may result in damage to the wheelchair or personal injury to the user.

Unit	P335
Footplate Clearance	60mm(2.4")

■ Assemble Power Articulating Foot Platform to seating system

The power articulating foot platform maintains the correct knee-to-heel measurements when the user's legs are elevated.

(1)Install the power articulating foot platform.
(a)Install the power articulating foot platform <B1> onto the square bar stock of seat. (Fig 3)
(b)Use Allen key to tighten two screws<B3> and spring washers<B2>. (Fig 3)

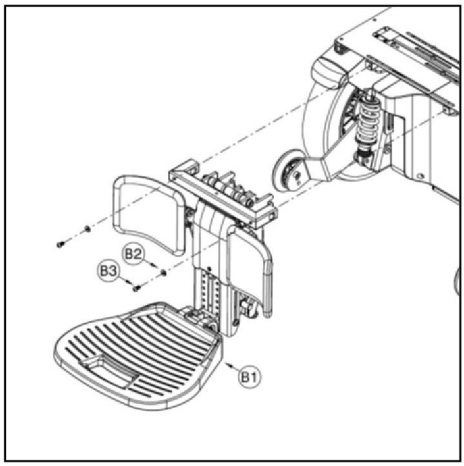


Fig 3

■ **Calf-pad horizontal position adjustment**

Parallel screws fix the lateral positioning (width) of the calf-pad.
(1)Use Allen key to loosen four screws <D2>. (Fig 6)
(2)Adjust the calf-pad <D1> to desired position. (Fig 6)
(3)Use Allen key to tighten four screws <D2>. (Fig 6)

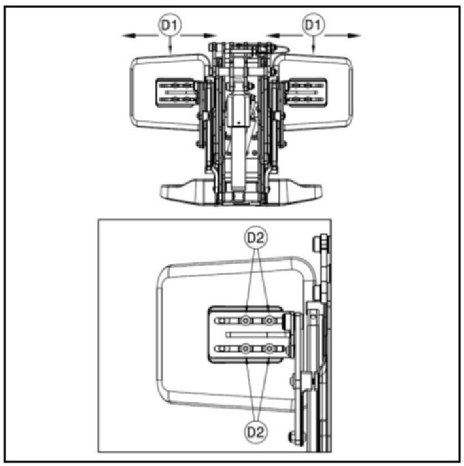


Fig 6

■ **Calf-pad depth and height position adjustment**

Single point of adjustment allows for depth and height of the calf-pad.

(1)Calf-pad depth adjustment.
(a)Use Allen key to loosen the screw <D3>. (Fig 7)
(b)Adjust the calf-pad <D1> to desired position. (Fig 7)
(c)Use Allen key to tighten the screw <D3>. (Fig 7)

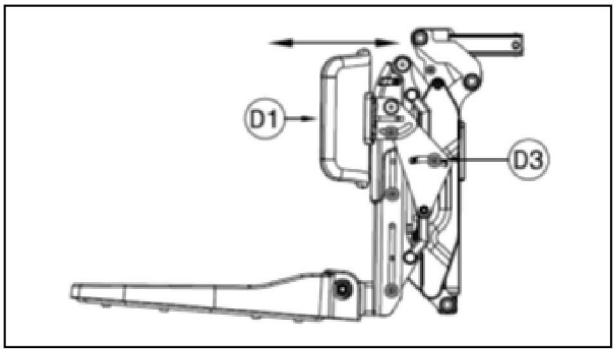


Fig 7

(2)Calf-pad height adjustment.
(a)Use Allen key to loosen the screw <D3>. (Fig 8)
(b)Adjust the calf-pad <D1> to desired position. (Fig 8)
(c)Use Allen key to tighten the screw <D3>. (Fig 8)

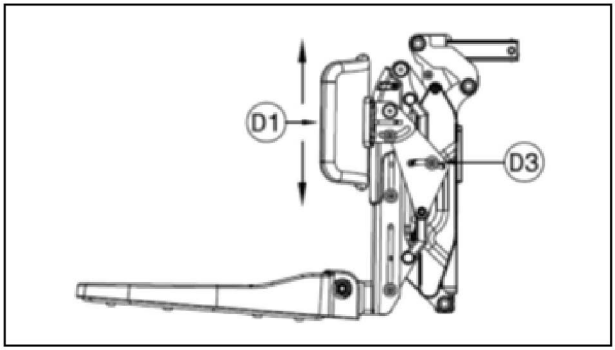


Fig 8

■ **Calf-pad angle adjustment**

The calf-pad will rotate with the use's leg, this sets a stop for the lowest position – loosen and rotated as needed.

(1)Use Allen key to loosen the screw <D4>. (Fig 9)
(2)Adjust the calf-pad <D1> to desired position. (Fig 9)
(3)Use Allen key to tighten the screw <D4>. (Fig 9)

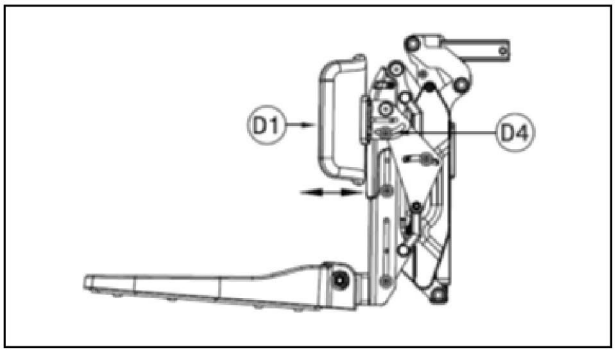


Fig 9

■ **Calf-pad angle adjustment**

Loosen the screw <E2> to allow up to 3" of leg length adjustment.
-Only requires a partial turn to allow for infinite adjustment.
-Remove completely to adjust for height position.
(1)Use Allen key to loosen four screws <E2>. (Fig 10)
(2)Adjust the leg length <E1> to desired position. (Fig 10)
(3)Use Allen key to tighten four screws <E2>. (Fig 10)

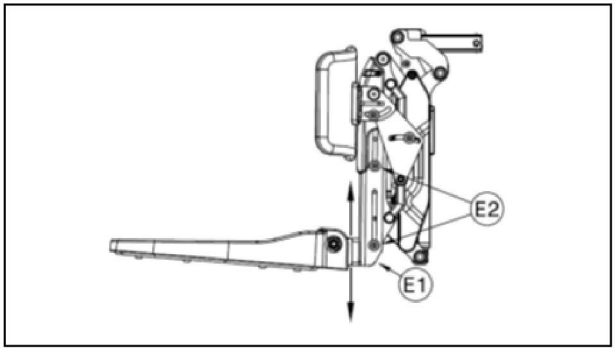


Fig 10

■ Leg length setup

(1)Use Allen key to loosen four screws <E2>. (Fig 11)
(2)Pull out leg length <E1> . (Fig 11)
(3)Setup the Footplate <E3> to desired position. (Fig 11)
(4)Use Allen key to tighten four screws <E2>. (Fig 11)
-P1: Highest fixed position 10" leg length.
-P2: Lowest fixed position 15" leg length.
(5)Reverse above processes to assemble the parts back.

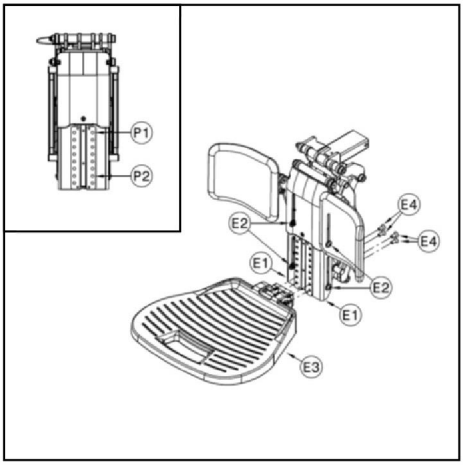


Fig 11

■ **Filp-up footplate angle adjustment**

(1)Filp-up the footplate <E3> for easy access. (Fig 12)
(2)With an Allen key, simply turn the bolt <E6> clockwise to increase the angle or counterclockwise to decrease it. (Fig 12)
(3)Hold bolt <E6> with wrench and loosen the nut <E5>. (Fig 12)
(4)Choose the right angle and tighten the bolt <E6> and the nut <E5>. (Fig 12)

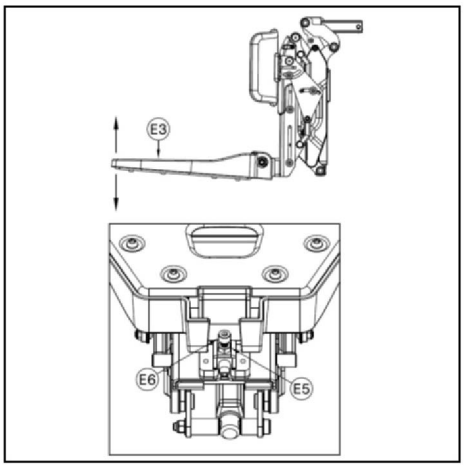


Fig 6

Manual Freewheel Levers:

The powerbase wheelchair has a manual freewheel lever on each parking brake. Manual freewheel levers enable you to disengage parking brake and maneuver the chair manually.

WARNING! Do not use the powerbase wheelchair while the drive motors are disengaged! Do not disengage the drive motors when the powerbase wheelchair is on an incline, as the unit could roll on its own, causing injury!

To engage or disengage the drive motors:
1. Locate the lever in tront of each motor.
2. Push the two levers down ward to engage the drive motors.(Fig B1)
3. Pull the two levers up ward to disengage the drive motors.(Fig B2)

If a lever is difficult to move in either direction, slightly rock the powerbase wheelchair back and forth. The lever should then move to the desired position.

WARNING! It is important to remember that when your powerbase wheelchair is in freewheel mode, the braking system is disengaged.

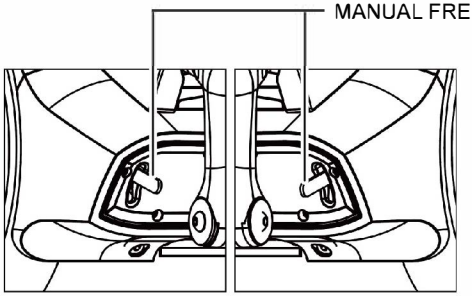


Fig B1. Drive Mode (Drive Engaged)

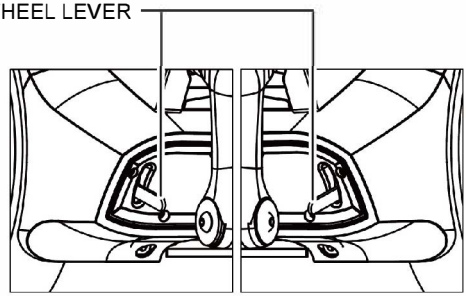
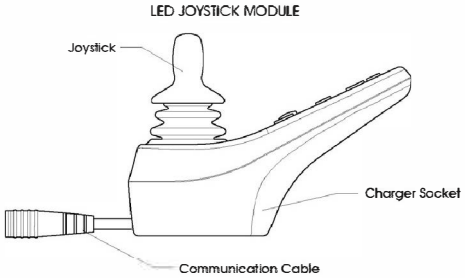


Fig B2. Freewheel Mode (Drive Disengaged)

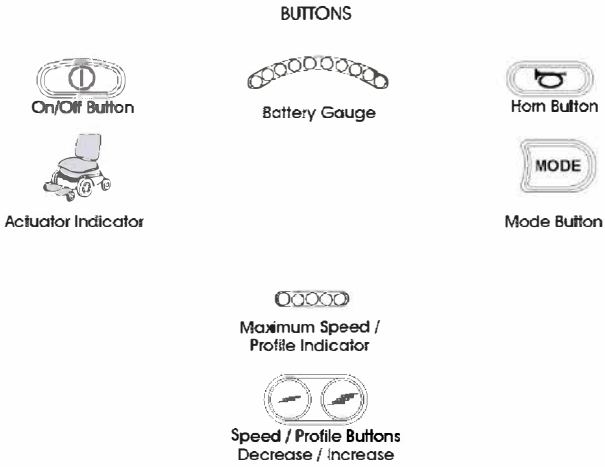
2.R-NET Controller Operation

2.1 Controls/JSM-LED



JSM-LED

2.1.1 Buttons/Indicator



Battery Gauge

The battery gauge shows you that the wheelchair is switched on. It also indicates the operating status of the wheelchair. Details are given in section 3.
If the battery gauge shows red, yellow and green, the batteries are charged. (LEDs 1 – 10)
If the battery gauge shows just red and yellow, then you should charge the batteries as soon as you can. (LEDs 1 – 7)
If the battery gauge shows just red, either steady or flashing slowly, then you should charge the batteries immediately. (LEDs 1 – 3)

On/Off Button

The On/Off button applies power to the control system electronics, which in turn supply power to the wheelchair's motors. Do not use the On/Off button to stop the wheelchair unless there is an emergency. (If you do, you may shorten the life of the wheelchair drive components).

Horn Button

The Horn will sound while this button is depressed.

Maximum Speed / Profile Indicator

This is a gauge which shows the maximum speed setting for the wheelchair or, if the control system is programmed for drive profile operation, the selected drive profile.
This gauge also indicates if the speed of the wheelchair is being limited or if the control system is locked.

Maximum Speed Indicator

This is a gauge that shows the maximum speed setting of the wheelchair. There are five speed settings – step 1 is the lowest speed and step 5 is the highest speed.

Profile Indicator

This is an indicator that shows the selected drive profile. There may be up to 5 drive profiles available, this depends on the programming of the control system.

Speed / Profile Decrease Button
This button decreases the maximum speed setting or, if the control system is programmed for drive profile operation, selects a lower drive profile.
It is possible to program the control system so this button has no effect while the wheelchair is being driven.

Speed / Profile Increase Button
This button increases the maximum speed setting or, if the control system is programmed for drive profile operation, selects a higher drive profile.
It is possible to program the control system so this button has no effect while the wheelchair is being driven.

Mode Button
The Mode button allows the user to navigate through the available operating Modes for the control system. The available modes are dependent on programming and the range of auxiliary output devices connected to the control system.

Actuator Indicator
This LED set displays which Actuator channel is currently being controlled when the Control System is in Actuator Mode. The actuators can be programmed to work in multiple ways.
Actuator selection and operation is achieved using the Joystick.
- Motions to the Left or Right select different actuator channels. Motions
- Forward and Backwards move the actuator(s) selected.

Hazard Warning Button and LED
This button activates and de-activates the wheelchair's hazard lights. Depress the button to turn the hazards on and depress the button again to turn them off.
When activated the hazard LED and the indicator LEDs will flash in sync with the wheelchair's indicators.

2.1.2 Control System Status indication

The battery gauge and maximum speed /profile indicator show the status of the control system.
A number of supposedly defective control systems returned to us are subsequently found to operate correctly. This indicates that many reported faults are due to wheelchair problems rather than the control system.

Battery Gauge is Steady
This indicates that all is well.

Battery Gauge Flashes Slowly
The control system is functioning correctly, but you should charge the battery as soon as possible.

Battery Gauge Steps Up
The wheelchair batteries are being charged. You will not be able to drive the wheelchair until the charger is disconnected and you have switched the control system off and on again.

Battery Gauge Flashes Rapidly (even with the joystick released)
The control system safety circuits have operated and the control system has been prevented from moving the wheelchair.
This indicates a system trip, i.e. the R-net has detected a problem somewhere in the wheelchair's electrical system. Please follow this procedure:

- Switch off the control system.
- Make sure that all connectors on the wheelchair and the control system are mated securely.
- Check the condition of the battery.
- If you can't find the problem, try using the self-help guide given in section 3.7.
- Switch on the control system again and try to drive the wheelchair. If the safety circuits operate again, switch off and do not try to use the wheelchair.

Contact your service agent.

Speed Indicator Ripples Outwards
In this instance the LEDs make a ripple motion starting with the middle LED and then stepping outwards on both sides. The Control System has detected that a new module has been added and is reconfiguring.

Speed Indicator LEDs 2 & 4 Flash

Speed 2 + 4

○●○●○

When the control system requires a reboot; for example, after a module re-configuration, the second and fourth speed indicator LEDs will flash.

Self-Help Guide
If a system trip occurs, you can find out what has happened by counting the number of LEDs on the battery gauge that are flashing.

Below is a list of self-help actions. Try to use this list before you contact your service agent. Go to the number in the list which matches the number of flashing LEDs and follow the instructions.
If the problem persists after you have made the checks described below contact your service agent.

1 LED	The battery needs charging or there is a bad connection to the battery. Check the connections to the battery. If the connections are good, try charging th e battery.
2 LED	The left hand motor* has a bad connection. Check the connections to the left hand motor.
3 LED	The left hand motor* has a short circuit to a battery connection. Contact your service agent.
4 LED	The right hand motor* has a bad connection. Check the connections to the right hand motor.
5 LED	The right hand motor* has a short circuit to a battery connection. Contact your service agent.
6 LED	The wheelchair is being prevented from driving by an external signal. The exact cause will depend on the type of whee lchair you have.
7 LED	A joystick fault is indicated. Make sure that the joystick is in the center position before switching on the control system.
8 LED	A possible control system fault is indicated. Make sure that all connections are secure.
9 LED	The parking brakes have a bad connection. Check the parking brake and motor connections. Make sure the control system connections are secure.
10 LED	An excessive voltage has been applied to the control system. This is usually caused by a poor battery connection. Check the battery connections.
7 LED + S	A communication fault is indicated. Make sure that the joystick cable is securely connected and not damaged.
Actuator Flash 	An Actuator trip is indicated. If more than one actuator is fitted, check which actuator is not working correctly. Check th e actuator wiring.

* If the programmable parameter, Motor Swap has been enabled, then left and right hand references in this table will need transposing.

Slow or Sluggish Movement
If the wheelchair does not travel at full speed or does not respond quickly enough, and the battery condition is good, check the maximum speed setting. If adjusting the speed setting does not remedy the problem then there may be a non-hazardous fault.

Contact your service agent.

Maximum Speed / Profile Indicator is Steady
The display will vary slightly depending on whether the control system is programmed to operate with drive profiles.

Speed Indication
The number of LEDs illuminated shows the maximum speed setting. For example, if the setting is speed level 4, then the four left hand LEDs will be illuminated.

Profile Indication
The LED illuminated shows the selected drive profile. For example, if drive profile 4 is selected, then the fourth LEDs from the left will be illuminated.

Maximum Speed / Profile Indicator Ripples Up and Down
This indicates the control system is locked.

Maximum Speed / Profile Indicator Flashes
This indicates the speed of the wheelchair is being limited for safety reasons. The exact reason will depend on the type of wheelchair, however, the most common cause is that the seat is in the elevated position.

2.1.3 R-NET Locking / Unlocking The Wheelchair

To lock the wheelchair using the keypad;

- While the control system is switched on, depress and hold the On/Off button.
- After 1 second the control system will beep. Now release the On/Off button
- Deflect the joystick forwards until the control system beeps.
- Deflect the joystick in reverse until the control system beeps.
- Release the joystick, there will be a long beep.
- The wheelchair is now locked.

The following screen will be displayed, the next time the Control System is switched on.

If an LED Joystick Module is fitted the Speed Indicator LEDs will ripple from left to right. Refer

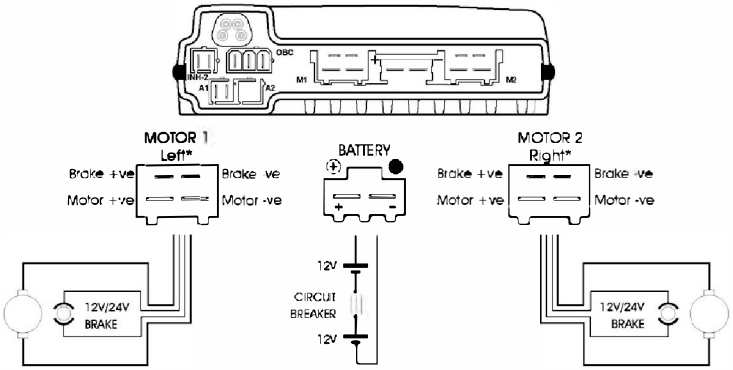
To unlock the wheelchair:

- If the control system has switched off, press the On/Off button.
- Deflect the joystick forwards until the control system beeps.
- Deflect the joystick in reverse until the control system beeps.
- Release the joystick, there will be a long beep.
- The wheelchair is now unlocked.

2.3 Module Wiring

2.3.1 Power Module Wiring

The following diagram gives details of the LED Power Module connections



* Assumes no Motor Swap programming has been undertaken

Joystick Movement	M1		M 2		Actual Movement	
	Motor +ve	Motor -ve	Motor +ve	Motor -ve		
Forward	+ve	-ve	+ve	-ve	Forward	**
Backward	-ve	+ve	-ve	+ve	Backward	**

** Assumes no Joystick Orientation, Invert M1 Direction or Invert M2 Direction programming has been undertaken

INHIBIT 2

INH-2	Function
1	0V
2	Inhibit 2

Joystick Movement	Pin 1	Pin 2	Actuator Movement	
Forward	-ve	+ve	Channel Up	*
Backward	+ve	-ve	Channel Down	*

Actuator

* Assumes no Joystick Orientation programming has been undertaken

ON-BOARD CHARGER

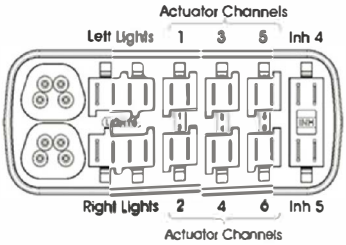
OBC	Function
1	Battery +ve
2	Inhibit 3
3	0V

The Power Module is shipped with rubber bungs inserted into some of the connectors. The A2 connector is blank and covered with a rubber bung. This should not be removed. Only remove the rubber bung from the required connectors.

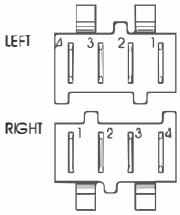
2.3.2 ISM Wiring

The following diagram gives details o the ISM connections

Model: ISM-X-L
X=4 , Actuator channels 1~4 Axis
6 , Actuator channels 1~6 Axis
L=Lights Function

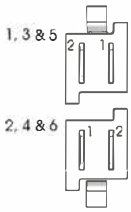


LIGHTS



Lights	Function
1	Gnd
2	Lights
3	Indicator
4	Brake/Horn

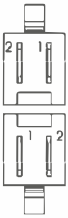
ACTUATORS



Joystick Movement	Pin 1	Pin 2	Actuator Movement	
Forward	-ve	+ve	Channel Up	*
Backward	+ve	-ve	Channel Down	*

* Assumes no Joystick Orientation or Invert Axis Direction programming has been undertaken

INHIBITS 4 & 5

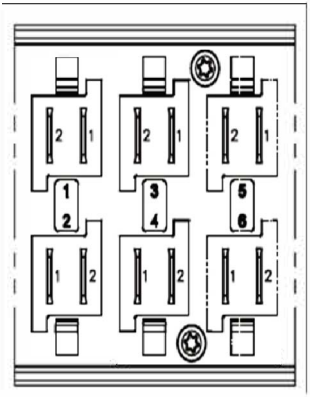


INHIBIT - 4	Function
1	0V
2	Inhibit 4

INHIBIT - 5	Function
1	0V
2	Inhibit 5

The ISM is shipped with rubber bungs inserted into some of the connectors. Only remove the rubber bung from the required connectors.

2.4 ISM Actuators Channels



Channel 1 : Tilt
Channel 2 : Recline
Channel 3 : L-ELR
Channel 4 : R-ELR
Channel 5 : Seat Elevator
Channel 6 : Footplate

JSM-LED Actuators Display

Tilt

Recline

L-ELR

R-ELR

L/R-ELR
or
Footplate

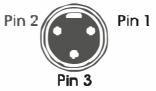
Recline+L/R-ELR
or
Recline+ Footplate

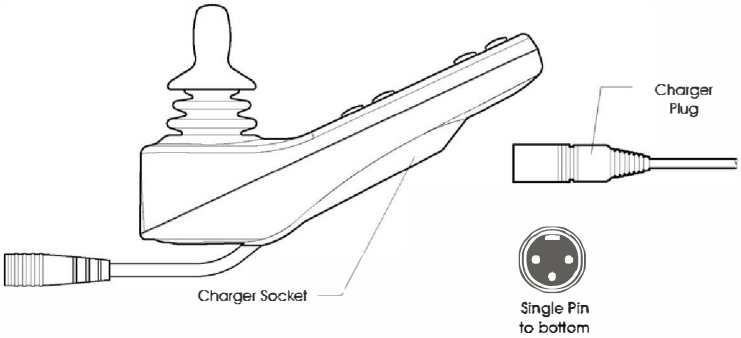
Seat Elevator

3. Charger Connector

An Off-Board Charger can be connected to the Joystick Module's charger connector. The charger connector is Neutrik 3 pin type NC3FPP or equivalent, and the maximum charging current is 12A rms. Only chargers fitted with Neutrik NC3MX plugs should be connected into the Joystick Module. The pin connections of the charging socket are as below.

Pin	Connection
1	Battery Positive
2	Battery Negative
3	Inhibit





■ Batteries and Charging

Your Power Wheelchair uses two long-lasting, 12-volt batteries. These batteries are sealed, maintenance free, deep-cycle batteries. Since they are sealed, there is no need to check the electrolyte (fluid) level. Deep-cycle batteries are designed to handle a deep discharge. Though they are similar in appearance to automotive batteries, they are not interchangeable. Automotive batteries are not designed to handle a long, deep discharge, and are also unsafe for use in power wheelchairs.

WARNING! Battery posts, terminals and related accessories contain lead and lead compounds. Wash hands after handling.

BATTERY BREAK-IN

To break in your power wheelchair new batteries for maximum efficiency:

1. Fully recharge any new battery prior to initial use. This will bring the battery up to about 90% of its peak performance level.
2. Run your power wheelchair about the house. Move slowly at first, and do not stray too far until you become accustomed to the controls and break in the batteries.
3. Give the batteries another full charge of 8 to 14 hours and operate the power wheelchair again. The batteries should now perform at over 90% of their potential.
4. After four or five charging cycles, the batteries will top off at 100% charge and last for an extended period.

IMPORTANT INFORMATION ABOUT BATTERIES

A fully charged deep-cycle battery provides reliable performance and extended battery life. Keep your batteries fully charged whenever possible. Batteries that are regularly discharged, infrequently charged, or stored without a full charge may be permanently damaged, causing unreliable operation and limited battery life.

If you do not use your power wheelchair regularly, we recommend maintaining battery vitality by charging the batteries at least once a week.

WARNING! Use only the original battery charger, which was accompanied with your power wheelchair.

Note: If you are storing a power wheelchair for an extended period of time, you may wish to block the unit up off the ground with several boards under the frame. This keeps the tires off the ground to prevent the possibility of flat spots developing.

If you intend to use public transportation while using your power wheelchair, you must contact in advance the transportation provider to determine their specific requirements.

Sealed Lead Acid and Gel Cell batteries are designed for application in wheelchairs and in other mobility vehicles. Generally, Sealed Lead Acid batteries that are marked as "Non-Spill" are safe for all forms of transportation such as aircraft, buses, and trains. We suggest that you contact your transportation provider to determine specific requirements of transportation and packaging.

If you wish to use a freight company to ship the power wheelchair to your final destination, repack the power wheelchair in the original shipping container and ship its batteries in separate boxes.

Charging Your Batteries

The battery charger is one of the most important parts of your power wheelchair. Optimize your power wheelchair performance by charging the batteries safely, quickly, and easily.Use only the charger supplied with the vehicle.

Charging Procedures

1. Keep charger output plug inserted into the charging socket in the front of the controller before having the charger input plugged into an electrical outlet.
2. Follow the instructions on the front panel of the charger for operating and learn the meanings of the different indicators accordingly.
3. Minimum charging time varies depending on battery condition and discharge level. It is recommended to charge the batteries overnight.

NOTE: The specially designed charger assures that excess power is not consumed regardless of how long it is switched on, and connected to the batteries.

4.Once charging is complete, disconnect the charger from the electrical outlet and then disconnect the charger from the controller socket. Do not leave the charger connected to controller when input power is disconnected.It is dangerous and will jeopardize the power charging to the batteries.

CARE AND MAINTENANCE

Your powerbase wheelchair requires a minimal amount of care and maintenance. If you do not feel confident in your ability to perform the maintenance listed below, you may schedule inspection and maintenance at your authorized. The following areas require periodic inspection and/or care and maintenance.

Tire pressure

- If equipped with pneumatic tires, always maintain the psi/bar/kPa air pressure indicated on each tire.
- It is important that the psi/bar/kPa air pressure indicated on each tire be maintained in pneumatic tires at all times. Do not underinflate or overinflate your tires.
- Low pressure may result in loss of control, and overinflated tires may burst. Failure to maintain the psi/bar/kPa air pressure indicated on pneumatic tires at all times may result in tire and/or wheel failure.
- Regularly inspect your scooter's tires for signs of wear.
- Tire pressure: Pneumatic tires, there should be 2.1-2.4 bar (206.9-241.3kPa / 30-35 psi) in each tire. Pressure (max.) = 3.5 bar max. (344.8kPa / 50psi).

Exterior surfaces

Main Shroud, rear shroud, and tires can benefit from an occasional application of rubber or vinyl conditioner.

Do not use a rubber or vinyl conditioner on the powerbase wheelchair's vinyl seat or tire tread, as this may cause them to become dangerously slippery.

Cleaning and disinfection

• Use a damp cloth and mild, non-abrasive cleanser to clean the plastic and metal parts of your powerbase wheelchair.

Avoid using products that may scratch the surface of your powerbase wheelchair.

• If necessary, clean your product with an approved disinfectant. Make sure the disinfectant is safe for use on your product before application.

• Follow all safety instructions for the proper use of the disinfectant and cleaning agent before applying it to your product. Failure to comply may result in skin irritation or premature deterioration of upholstery and/or scooter finishes.

Battery terminal connections

• Make certain that the terminal connections remain tight and uncorroded.

• The batteries must sit flat in the battery wells.

ABS plastic shrouds

• The fender LH/RH are formed from durable ABS plastic and are coated with an advanced formula urethane paint.

• A light application of car wax will help the shrouds retain their high gloss.

Motor brushes

The motor brushes are housed inside of the motor transaxle/assembly. They should be inspected periodically for wear by your authorized dealer.

AXLE BEARINGS AND THE MOTOR/TRANSAXLE ASSEMBLY

You do not need to lubricate these items, as they are all prefabricated and sealed.

DAILY CHECKS

• With the controller turned off, check the joystick. Make sure it is not bent or damaged and that it returns to center when you release it. Check the rubber boot around the base of the joystick for damage. Visually inspect the boot only. Do not handle or try to repair it. See your authorized service center if there is a problem.

• Visually inspect the controller harnesses. Make sure that they are not frayed, cut or have any wire exposed. See your authorized provider if there is a problem with any of these harnesses.

WEEKLY CHECKS

• Disconnect and inspect the controller and charger harnesses from the electronics connector housing. Look for corrosion. Contact your local provider if necessary.

• Ensure that all parts of the controller system are securely fastened to your powerbase wheelchair. Do not over tighten any screw.

• Check for proper tire inflation, there should be 30-35psi in each tire. If a tire will not hold air, replace the tube.

• Calibrate the joystick if a noticeable difference in performance is detected or if the joystick does not operate properly.

• Check the brakes. This test should be carried out on a level surface with at least three feet of clearance around your powerbase wheelchair.

To check the brakes:

1. Turn on the controller and turn down the speed response adjustment knob.
2. After one second, check the battery gauge. Make sure that it remains on.
3. Slowly push the joystick forward until you hear the electric brakes click.

Note: The powerbase wheelchair may move when performing this test. Immediately release the joystick. You must be able to hear each electrical brake operating within a few seconds of joystick movement.

MONTHLY CHECKS

- Check that the anti-tip wheels do not rub the ground when you are operating the powerbase wheelchair; adjust them as necessary.
- Check for extreme wear on the anti-tip wheels. Replace them as necessary.
- Check for drive tire wear. See an authorized provider for repair.
- Check the front/rear castors for wear. Replace as necessary.
- Check the front/rear forks for damage or fluttering which indicates that they may need to be adjusted or the bearings may need to be replaced. See an authorized provider for repair.
- Keep your powerbase wheelchair clean and free of foreign material such as hair, food, drink, etc.

YEARLY CHECKS

- Take your powerbase wheelchair to an authorized provider for yearly maintenance. This helps to ensure that your powerbase wheelchair is functioning properly and helps prevent future complications.

Wheel replacement

If your powerbase wheelchair is equipped with pneumatic tires and you have a flat tire, you can have the tube replaced.

If your powerbase wheelchair is equipped with a solid tire insert, either the solid insert or the entire wheel must be replaced depending on the model. Contact your dealer for information regarding replacement wheels for your powerbase wheelchair.

Be sure that the powerbase wheelchair is powered off and the powerbase wheelchair is not in freewheel mode before performing this procedure.

Follow these easy steps for a quick and safe repair for solid tires:

1. Push the ON/Off switch button to turn off the power.
2. Elevate the side of the powerbase wheelchair of which you are removing the tire. Place wooden blocks under the frame to elevate the powerbase wheelchair.
3. Remove the drive wheel nut and washer from the axle.
4. Pull the wheel off the axle.
5. Slide the new wheel back onto the axle. Make sure that the axle key is in the axle slot. Failure to ensure that the axle key is properly installed into the axle slot when mounting the wheel can result in electronic brake failure, personal injury, and product damage.
6. Reinstall the drive wheel nut and washer onto the axle and tighten.
Make sure both the nut and washer are reinstalled and tightened properly.
7. Remove the block from beneath the powerbase wheelchair.

Wiring harnesses

- Regularly check all wiring connections.
- Regularly check all wiring insulation, including the charger power cord, for wear or damage.
- Have your authorized dealer repair or replace any damaged connector, connection, or insulation that you find before using your powerbase wheelchair again.
- Even though the powerbase wheelchair has passed the necessary testing requirements for ingress of liquids, you should keep electrical connections away from sources of dampness, including direct exposure to water or bodily fluids and incontinence. Check electrical components frequently for signs of corrosion and replace as necessary.

Nylon lock nut replacement

Any nylon insert lock nut removed during the periodic maintenance, assembly, or disassembly of the scooter must be replaced with a new nut. Nylon insert lock nuts should not be reused as it may cause damage to the nylon insert, resulting in a less secure fit. Replacement nylon insert lock nuts are available at local hardware stores or through your dealer.

Console, charger, and electronic controller module

- Keep these areas away from moisture.
- Before operating your powerbase wheelchair, allow any of these areas to dry thoroughly if they have been exposed to moisture.

Fuses

To replace a fuse:

1. Remove the fuse by pulling it straight out of its slot.
2. Examine the fuse to be sure it is blown.
3. Insert a new fuse of the proper rating.

Storing your powerbase wheelchair

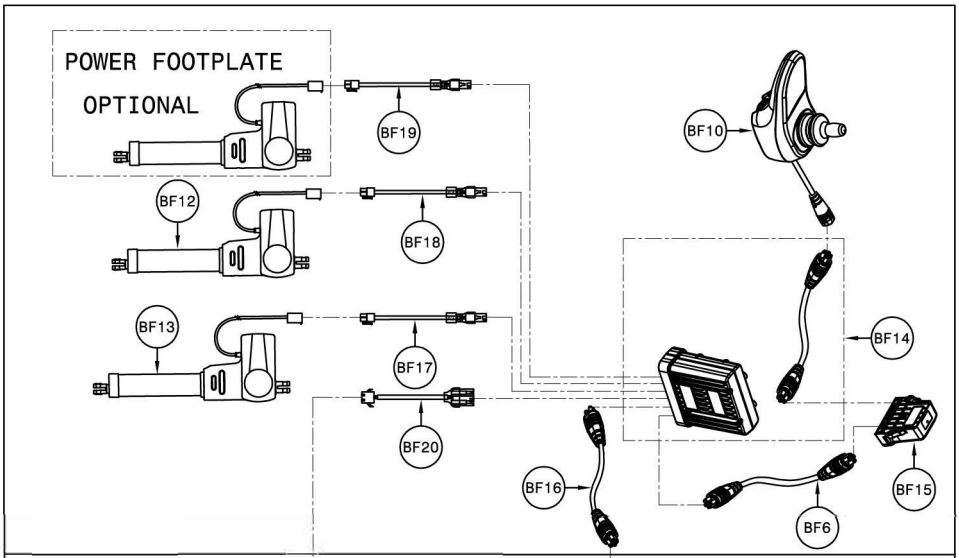
If you plan on not using your powerbase wheelchair for an extended period of time, it is best to:

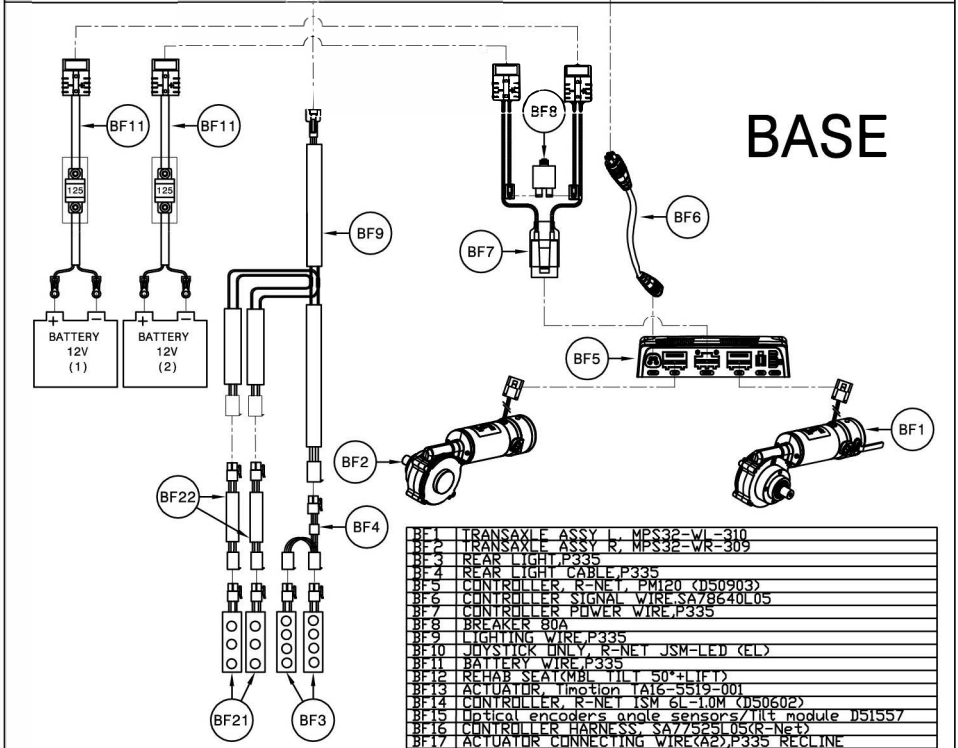
1. Fully charge its batteries prior to storage.
2. Disconnect the batteries from the powerbase wheelchair.
3. Store your powerbase wheelchair in a warm, dry environment.
4. Avoid storing your powerbase wheelchair where it will be exposed to temperature extremes.

Always protect batteries from freezing temperatures and never charge a frozen battery. Charging a frozen battery can result in damage to the battery.

Recycle

Information on the recycling of used batteries and other parts of the powerbase wheelchair; use only special recycling for the powerbase wheelchair parts, no general disposal (e.g. batteries, electronics)





BASE

BF1	TRANSAXLE ASSY L, MPS32-WL-310
BF2	TRANSAXLE ASSY R, MPS32-WR-309
BF3	REAR LIGHT,P335
BF4	REAR LIGHT CABLE,P335
BF5	CONTROLLER, R-NET, PM120 (D50903)
BF6	CONTROLLER SIGNAL WIRE,SA78640L05
BF7	CONTROLLER POWER WIRE,P335
BF8	BREAKER 80A
BF9	LIGHTING WIRE,P335
BF10	JOYSTICK ONLY, R-NET JSM-LED (EL)
BF11	BATTERY WIRE,P335
BF12	REHAB SEAT(MBL TILT 50°+LIFT)
BF13	ACTUATOR, Timotion TA16-5519-001
BF14	CONTROLLER, R-NET JSM 6L-1.0M (D50602)
BF15	Optical encoders angle sensors/Tilt module D51557
BF16	CONTROLLER HARNESS, SA77525L05(R-Net)
BF17	ACTUATOR CONNECTING WIRE(A2),P335 RECLINE
BF18	ACTUATOR CONNECTING WIRE(A3),P335 TILT
BF19	ACTUATOR CONNECTING WIRE(A4),P335 POWER FOOTPLATE
BF20	LIGHTING WIRE UPPER,P335
BF21	CONNECTING WIRE FOR WHITE LED (LED INCLUDED)
BF22	FRONT LIGHT EXTEND WIRE,P335

IEC Symbols

	Direct current
IPX4	Protect against splashing water
	Attention, consult accompanying document.
	ON/ OFF Button on the controller
6A/24V	Use DC 24V/6A charger
	**Follow the instructions for use**
	Type B applied part
	Class II Equipment
	Not intended for use as seat in a motor vehicle
	Pinch/Crush points created during assembly
	Do not stand on the footplate

▶ Warranty ◀

Limited Warranty

Corporation warrants to the original purchaser of this wheelchair product that it is free of defect in material and workmanship and that, when operated within the guidelines and restrictions of this manual, will remain so free of defect in material and workmanship for a period of 18 months from the original date of purchase.

Excluded from this warranty is failure due to negligence, abuse, accident, operation outside of rated limits, commercial or institutional use, damage / wear to upholstery or tires and improper maintenance or storage. The batteries for this wheelchair product are not supplied by Corporation; contact the battery manufacturer / supplier if warranty replacement is requested.

This wheelchair product must not be modified in any way without the express written consent of Corporation. Any such unauthorized modification could cause unreliable and / or unsafe operation and will void this warranty.

Where a failure occurs within the 18 months warranty period that is not excluded above, the failed components will be replaced with similar new or reconditioned components at sole option. Corporation will not be responsible for labor and / or shipping charges.

The foregoing warranty is exclusive and in lieu of all other warranties expressed or implied including, but not limited to, the implied warranty of merchantability and fitness for a particular purpose. Corporation will not be liable for any consequential or incidental damages whatsoever.

Note: Service life of the frame and seat is 3 years.

▶ Warranty Registration ◀

WARRANTY REGISTRATION

MODEL NO. _____

SERIAL NO. _____

DATE PURCHASED _____

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

DEALER NAME _____

STAMP

RETURN ADDRESS

_____

_____

_____

TROUBLESHOOTING TIPS

Figure 1

Figure 2

If your power chair or scooter is not operating properly, please take the following steps prior to calling Technical Support.

Load-test Batteries—See Figure 1

1. Attach Battery Load-tester to battery.
   Observe polarity: Red is Positive—Black is Negative
2. Hold load switch on for 10 seconds. A good reading is 11.2 Volts DC, or in the Green.

Note: A Voltmeter cannot load-test batteries.

Test Voltage—See Figure 2

Utilizing a Voltmeter, place meter leads in charging port. The voltage reading should be 25 Volts DC, plus or minus 2 volts.

Note: Batteries are connected in series.

If the above tests are successful, proceed with the following test.

1. For power chairs, place gearbox levers in Freewheel.
2. Turn on controller and run in all four quadrants.
3. If troubleshooting a scooter, elevate rear wheels and run in Forward and Reverse.

If any of the above tests fail, contact your local dealer.

Disclosure Information (ISO 7176-15:1996)					
	Min.	Max.		Min.	Max.
Overall length with legrest	--	1210mm/47.6"	Seat plane angle	0°	5°
Overall width	--	627mm/24.7"	Effective depth	356mm/14"	508mm/20"
Folded length	--	--	Effective seat width	356mm/14"	560mm/22"
Folded height	--	--	Seat surface height at front edge		445mm/17.5"
Total mass	--	157kg/345.8lbs	Backrest angle	85°	160°
Mass of the heaviest part	--	17kg/37.5lbs (Battery) 55.4kg/122lbs (seat)	Backrest height		640mm/25.1"
Static stability downhill	--	7.5°	Footrest to seat distance		313mm/12.3"
Static stability uphill	--	7.5°	Leg to seat angle		254mm/10"
Static stability sideways	--	7.5°	Armreat to seat distance		--
Energy consumption	--	32km/20mile	Front location of armrest structure	--	--
Dynamic stability uphill	--	7.5°	Handrim diameter	--	--
Obstacle climbing	--	60mm/2.4"	Horizontal location of axle	--	--
Maximum speed for forward	--	10km/h. / 6.25mile	Minimum turning radius	670mm/26.4"	--
Minimum horizontal braking distance from max speed	--	2100mm	Minimum turn-aound width	1230mm/48.4"	--

WARNING! The brake distance at the slope might be longer than the minimum brake distance under maximum speed.

MERITS HEALTH PRODUCTS, INC.

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