

USER MANUAL



P3DXC-R-RT



Manufacturer.

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The users need to consult the instructions of the device for information on how to use it properly.



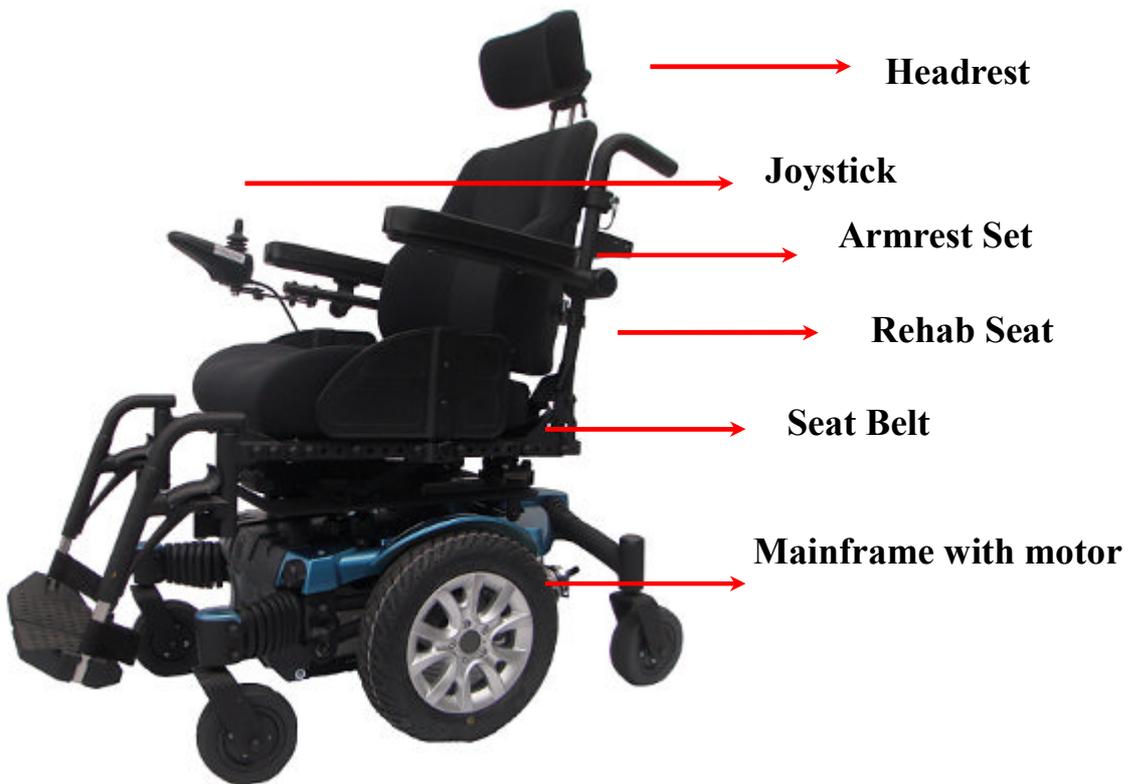
Warning! Do not, under any circumstance, climb a slope greater than the maximum climbing angle (6 degree) with this power wheelchair. Any attempt to climb a slope steeper/greater than 6 degree may put your power wheelchair in an unstable position and cause it to tip. When on any sort of an incline or decline slope, never place the power wheelchair in freewheel mode.

Part Number 70030229

COMPONENTS

Your power wheelchair is shipped partially disassembled for protection during shipping. After unpacking, please check whether you have received the following main components as our standard specification (See Fig.1).

1. Mainframe with motor
2. Rehab Seat
3. Headrest
4. Seat Belt
5. Armrest Set
6. Controller (Joystick)
7. Charger
8. Captain Seat (Optional)



Charger



Captain Seat

SAFETY INSTRUCTION

Operation of Chair

1. Always ensure that the power is switched off when getting in or out of the power wheelchair. This will eliminate the possibility of accidentally activating the joystick and causing injury to yourself or others.
2. Always check that the drive wheels are engaged (drive mode) before driving.
3. Set the speed control knob according to your driving ability and the environment in which you are going to operate. We recommend that you keep your speed at the slowest position (fully press the deceleration button) until you are familiar with the driving characteristics of the vehicle. We also recommend that you use the slowest speed when using your power wheelchair indoors.
4. Always reduce your speed when making sharp turns.
5. Do not switch off the power when the wheelchair is still moving forward. This will bring the chair to an extremely abrupt stop.
6. Avoid jerky stop/start motions as it will result in excessive current draw from the batteries, increased tire wear and the rapid wearing of the gearboxes and motors.
7. To brake in an emergency, simply release the joystick.

Ramps and Curbs

8. When driving up or down ramps, be sure to check that the angle of the slope is less than 10 degrees (slopes about 1/6). Also check that ramp surface is roughened to prevent slipping. Never drive across a slope or turn sharply on a slope.
9. When driving up curbs, always check the height of the curb to ensure that it does not exceed 1-1/2”(40mm) height.

Transfers, Reaching and Bending

10. Transferring on and off the power chair requires a good sense of balance. To eliminate the possibility of injury, we recommend performing the following tasks before attempting a transfer:
 - Position chair so that the distance between your power chair and the object to which you are transferring is close enough for a safe transfer.
 - Turn the power off
 - Ensure that your power chair not in freewheel mode.
 - Flip up or remove armrests
 - Flip up footplate or remove footrests
 - Turn both caster wheels towards the transfer direction to improve power chair stability during transfer.

11. When reaching, bending or leaning while seated on your power chair, make sure that you maintain a stable center of gravity to keep the power chair from tipping.

General

12. Always use a seat belt, and keep feet on the footplate at all times.
13. For safety reason, make sure that your weight does not exceed the recommended weight limit of the wheelchair. Consult your dealer for the specified weight limits for your particular model.
14. Do not attempt to lift or move a power chair by any of its removable parts. Personal injury and damage to the power chair may result.
15. Do not stand on the footplate directly.
16. Never try to use your wheelchair beyond its limitations as described in this manual.
17. Do not operate your vehicle if it is not functioning properly.
18. Do not connect any electrical or mechanical device to the vehicle. Failure to obey this instruction may result in injury and will void the warranty.
19. Never use electronic radio transmitters such as CB, walkie-talkies, portable computers or cellular phones while using the vehicle without first turning the vehicle off.

Use While Under The Influence Of Medication Or Alcohol

20. Check with your physician if you are taking any medication that may affect your ability to operate your power wheelchair safely.
21. Do not operate your vehicle while you are under the influence of alcohol, as this may impair your ability to operate your power chair in a safe manner.

Electromagnetic interference (EMI) from Radio Wave Sources

The rapid development of electronics, especially in the area of communications, has saturated our environment with electromagnetic(EM) radio waves that are emitted by television, radio and communication signals. These EM wave 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 scooters are susceptible to electromagnetic interference(EMI). The interference could result in abnormal, unintentional movement and/or erratic control of the vehicle. The United States Food and drug Administration (FDA) suggests that the following statement be incorporated to the user's manual for all power wheelchairs. Power wheelchairs and motorized scooters (in this section, both will be referred to as powered wheelchairs) may as susceptible to electromagnetic interference (EMI), which is interfering electromagnetic energy emitted from sources such as radio stations, TV stations, amateur radio (HAN) transmitter, 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 “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 communication 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: It is difficult to evaluate the 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.

TURN OFF YOUR POWERED WHEELCHAIR AS SOON AS POSSIBLE WHEN EXPERIENCING THE FOLLOWING:

- Unintentional motions
- Unintended or uncontrollable direction.
- Unexpected brake release

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

ENVIRONMENTAL CONDITIONS

Environmental conditions may affect the safety and performance of your power wheelchair. Water and extreme temperatures are the main elements that can cause damage and affect performance.

A) Rain, Sleet and Snow

If exposed to water, your power wheelchair is susceptible to damage to electronic or mechanical components. Water can cause electronic malfunction or promote premature corrosion of electrical components and frame.

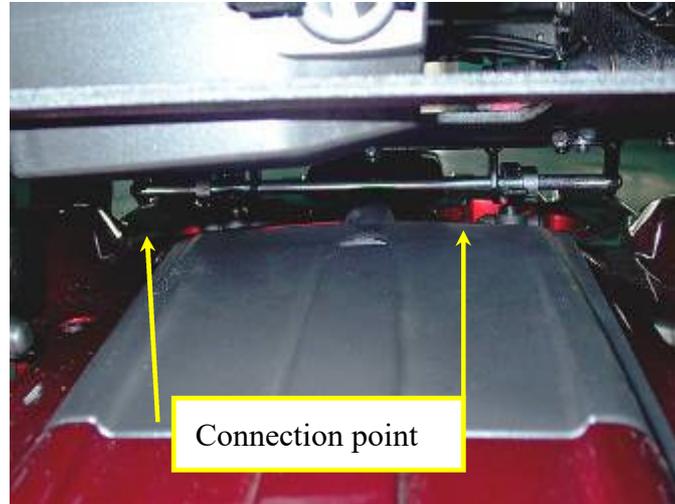
B) Temperature

Some of the parts of the power wheelchair are susceptible to change in temperature. The controller can only operate in temperature that ranges between 18°F(-8°C) and 122°F(50°C).

At extreme low temperatures, the batteries may freeze, and your power wheelchair may not be able to operate. In extreme high temperatures, it may operate at slower speeds due to a safety feature of the controller that prevents damage to the motors and other electrical components.

ASSEMBLY INSTRUCTION

1. Installing the Saddle set and Seat



(Fig 2)

Slide the saddle set (#4) into the Connection points(both sides) in the main frame (#1)(See Fig 2), put down the saddle set and connect the front connection point and make sure that tighten the tension knob in the front connection point.(See Fig 3).

Put the seat (#3) on the saddle set in the correct direction.(See Fig 4).

Front connection point



(Fig 3)

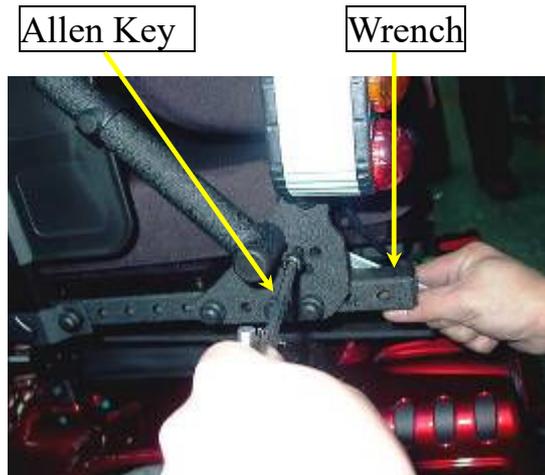


(Fig 4)

Lift up the back frame (See Fig 5) and adjust the comfortable angle ,then insert the bolt into the desired location and tighten the bolt and knob with Aller. key(No #6) and wrench(No #13) (See Fig6)



(Fig 5)

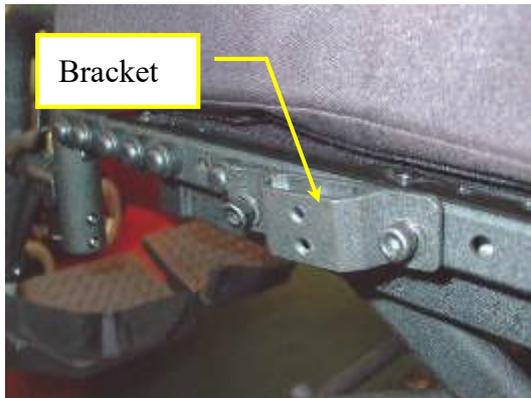


(Fig 6)

1. Installing the skirt guard and Armrest

2-1 Install the skirt guards (#10,#11)

Place the skirt guard bracket on the seat frame and go through the 2 *M8 bolts into the holes of the seat frame.(See Fig 7), Use the Allen key and wrench to tighten the bolts and nuts(See Fig 8). Insert the skirt guard support tube into the bracket in the correct direction (See Fig 9). Tighten the tension knob. (Fig 10)



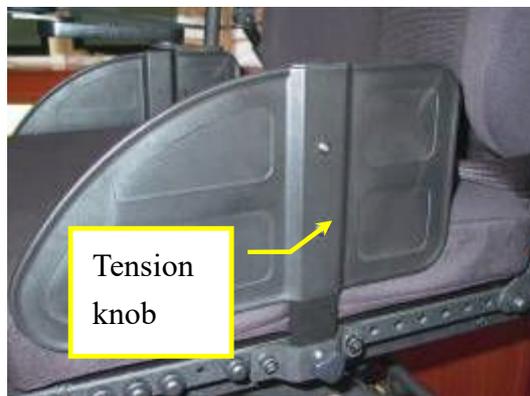
(Fig 7)



(Fig 8)



(Fig 9)



(Fig 10)

2-2 Install the Armrest

Lift up the armrest bottom tube, take off the E- plastic clip and slide the armrest up tube into the bottom tube (See Fig 11). Then insert the E-plastic clip into the correct location. (See Fig 12)



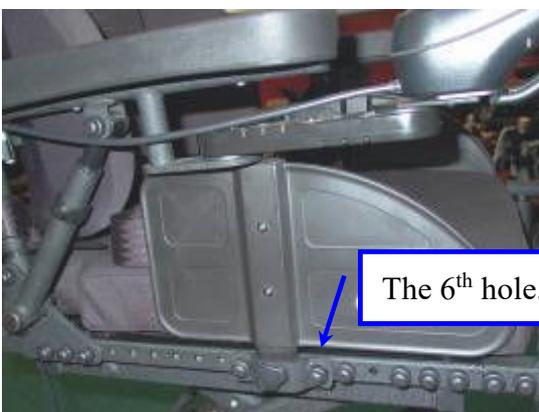
(Fig 11)



(Fig 12)

Note: 1. When you assemble the skirt guard' bracket on the seat frame, the suggestive hole position is the 6th. The skirt guard will hit the armrest bottom tube if you assemble on the backward hole location.(Fig 13)

2. The right skirt guards is lower than the left one, because the controller swingway bracket will lead the right skirt guard lower.



(Fig 13)



Pin location

(Fig 14)

U Bracket

3.Installing the Backrest

Put the backrest (#2) into the saddle set. Make sure the round tube fit into the U bracket and the pin locate in correct position (See Fig 14).

Insert the spring pin into the hole (in U bracket) and let the spring to attach the other end. (See Fig 15,16)



(Fig 15)



(Fig 16)

4. Installing the Headrest

Loosen the lever of saddle set, put the headset (#5) into the clamp then fasten the lever. (See Fig17)



(Fig 17)

5. Installing the Footrest

Insert the footrest (with left-#7 and Right-#6 each) into footrest frame with side direction (See Fig 18) then turn 90 degree to correct direction and make sure the pin jumps into the correct position. (See Fig 19)



(Fig 18)



(Fig 19)

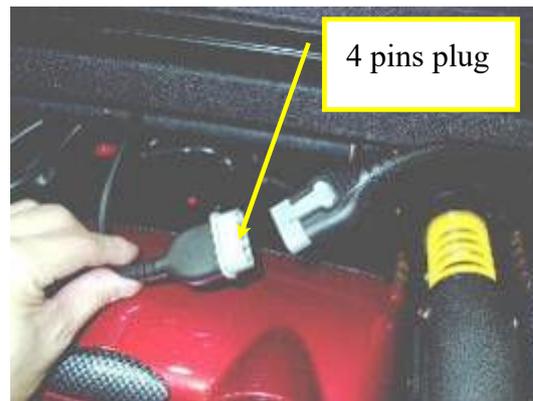
6.Installing Controller and Connect Cables

Assemble the controller (#8) on right armrest bracket with 2 screws.(See Fig 20).

There is 1 main plug (4 pins) in the other end on the controller. Please plug in the main frame (#1) plugs, then make sure tightly connection.(See Fig 21).



(Fig 20)

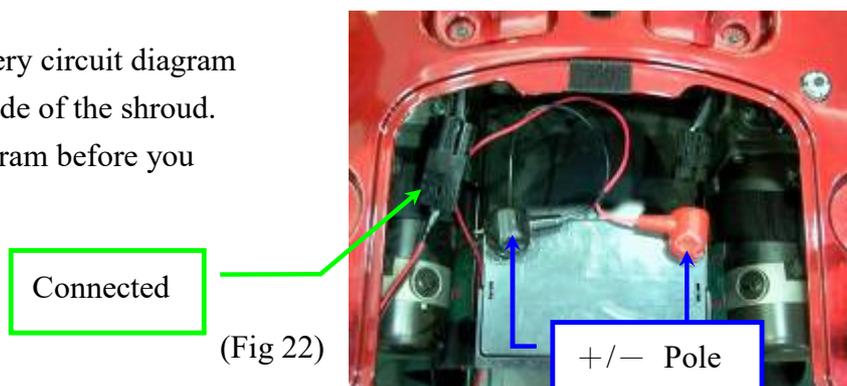


(Fig 21)

Note: Installing the Batteries (you can omit this step if your scooter already assembled the batteries)

Take out the cover from the base frame slightly. Put the batteries to the battery loops and connect the cable (2 ends) with the battery positive and negative poles in batteries. (See Fig 22)

Note: There is a battery circuit diagram labeled on the backside of the shroud. Please refer this diagram before you assemble the battery.



(Fig 22)

ADJUSTMENTS FOR SEATING CONFORT

To maximize seating comfort, your power wheelchair lets you adjust:

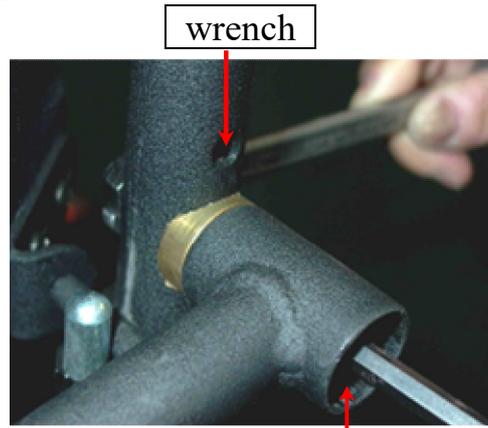
- Armrest height and angle
- Seat depth and width
- Headrest angle
- Backrest angle and width
- Controller position

A. Armrest Height and Angle Adjustment

A-1: To adjust the Height:



(Fig 23)



(Fig 24)

- take off the plastic end cap (Fig 23)
- loosen the bolt with Allen key (No #6) and Wrench (#13)(Fig 24)
- move and locate the bolt into the desired height hole
- tighten the bolt and put the end cap back

A-2: To adjust the Angle:



(Fig 25)

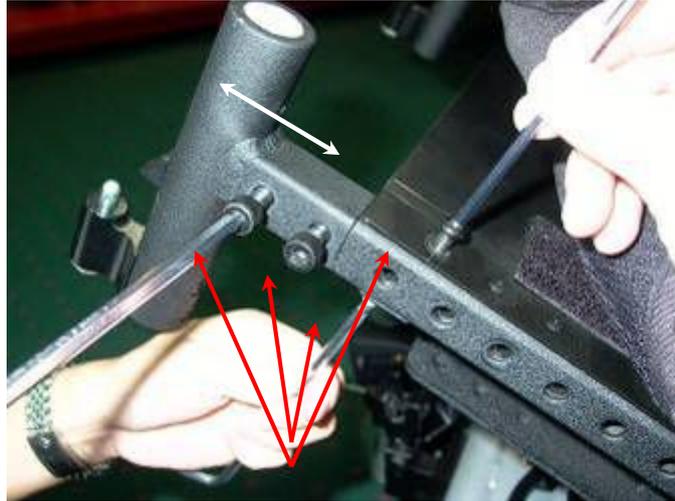


(Fig 26)

- Take off the E-plastic clip (See Fig 26)
- slide the armrest up tube in desired angle (See Fig 25)
- insert the E-plastic clip into the hole

B. Seat Depth and Width Adjustment

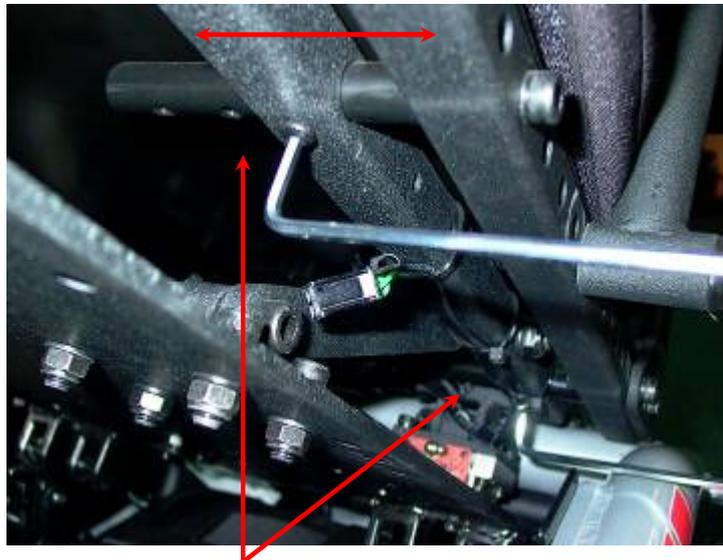
B-1: To adjust the Depth



(Fig 27)

- use Allen keys to loosen the 4 bolts in footrest frame (Fig 27)
- slide the footrest frame in or out for desired depth
- tighten the bolts with Allen key

B-2: To adjust the Width

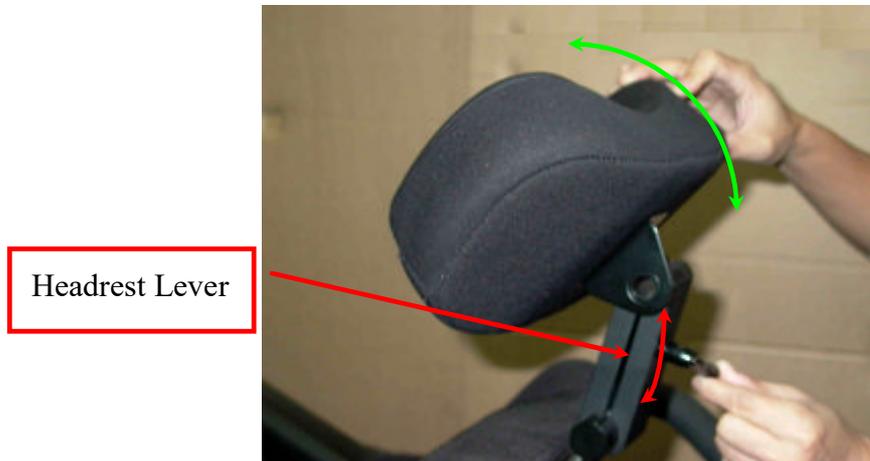


Bolts (Fig 28)

- use Allen keys to loosen the 4 bolts under the seat frame (Fig 28)
- slide the seat frame in or out for desired width
- tighten the bolts with Allen key

C. Headrest Angle Adjustment

- loosen the headrest lever (back the headrest)
- turn the headrest to your desired angle (See Fig 29)
- tighten the headrest lever



(Fig 29)

D. Backrest Angle and Width Adjustment

D-1: To adjust the Angle

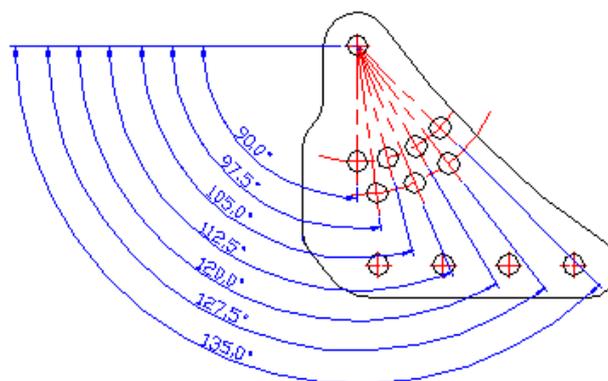
- loosen the bolt with Allen key (No # 6)and wrench(# 13)
- move the backrest to your comfortable angle(See Fig 30)
- insert the bolt and nut and tighten

Note:

There are 7 different angles when you adjust the backrest to fit your comfortable seating from 90° to 135°. (See Fig 31)



(Fig 30)



(Fig 31)

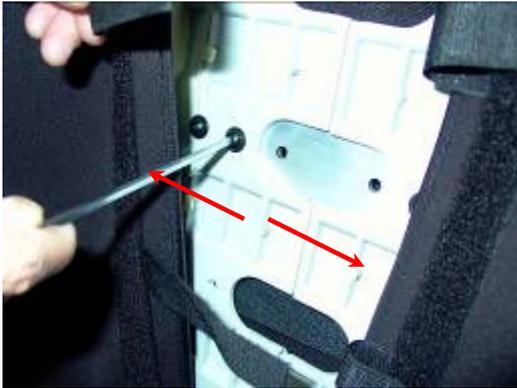
D-2-1: To adjust the backrest plastic

- tear off the attachment and open the backrest cover
- loosen the bolts with Allen key (No # 4)

- slide in or out for backrest plastic parts (left and right) separately to your desired width(See Fig 32)
- tighten the bolts and nuts

D-2-2:To adjust the backrest tube

- loosen the bolts with Allen key (No #5)
- slide in or out for the tube (left and right) separately to your desired width (See Fig 33)
- tighten the bolts and nuts.



(Fig 32)



(Fig 33)

Allen Key

E. Controller Position Adjustment

You can adjust the controller position easily by rotating the controller supporter.(See Fig 34 & 35)



(Fig 34)



(Fig 35)

Controller Supporter

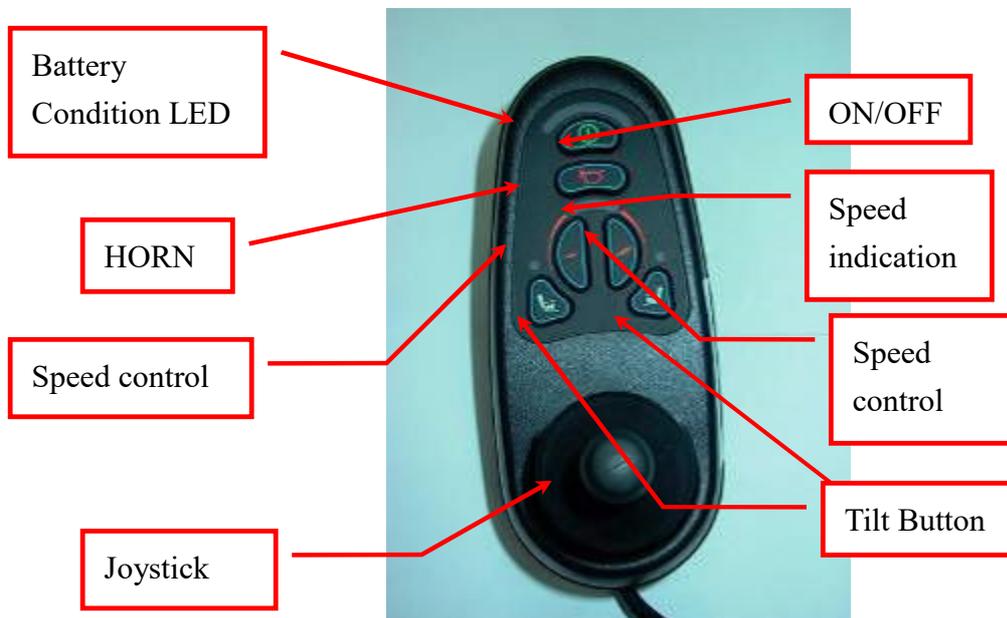
OPERATION

The power wheelchair is simple to operate. However, we recommend that you read carefully the following instructions to become familiarized with your new vehicle.

A Word of Caution:

Before you turn the power on, always be aware of the environment that surrounds you to select your desired speed. For indoor environments we recommend that you select the slowest speed setting. For outdoor operation of this vehicle we recommend that you select a speed that is comfortable for you to control it safely.

The following steps are required to operate your vehicle safely with the power chair controller (See Fig 36)



(Fig 36)

Driving:

1.Controller ON/OFF Switch

Press the ON/OFF button (I/O) switch located in front of the joystick to activate your power wheelchair. The battery condition meter will light up to indicate the current charge of your battery. Pressing the ON/OFF button again will deactivate the controller.

2.Speed Control

The speed control buttons allow you to set the forward speed to your desired setting.

Pressing the speed increasing button will set the speed at the faster settings while the speed will slow down if you press the speed decreasing button. The controller sets the reverse speed, acceleration and deceleration proportionally and automatically for your safety.

3.Joystick

The joystick controls the direction, speed and tilt degree of your vehicle, pointing the joystick away from the neutral position,(center), will move the vehicle in the direction where the joystick is pointing. The farther away (forward/backward) the joystick is from the neutral position, the faster the vehicle will go. The farther away to the right/ left the joystick is pointing, the sharper the turn of the vehicle will be. The farther away to the front/ back the joystick is pointing, the tilt angle of the seat of the vehicle will be. To operate the vehicle by pushing gently the joystick in the direction you want to go. Returning the joystick to its neutral position (center) will reduce the speed and stop the vehicle by automatically applying the electromagnetic brakes.

Notes:

- After pressing the controller ON/OFF switch, allows two seconds to elapse before engaging the joystick. This is a safety feature to prevent sudden start.
- Gentle operation of the joystick will result in smoother transitions in speed and direction, while sharp operation of the joystick will result in drastic transitions in direction and velocity.
- When the wheelchair is in operation, the surface of the charger will become slightly hot.
- In case of emergency, let go of the joystick and the chair will come to a stop.
- There is a safety design called inhibit switch device in the vehicle. The drive power will be off automatically when the user sits on the vehicle and uses the tilt function exceed a certain angle.

Warning: The tilt angle adjustment range is from 0° to 45° for your vehicle. Never stop tilting if you keep far way the joystick until to the maximum degree. Only adjust the comfortable angle when you use tilt function then stop for safety.

A. Controller Display

The controller display is a multifunction visual display. It can provide five types of information:1)ON/OFF status ,2)battery condition meter, 3) Horn , 4) acceleration, 5)deceleration buttons, 6)tilt function.

1. ON/OFF Status

When the power is on, the controller's LED will be lit up. If the LED is not lit, the controller is OFF.

2.Battery Condition Meter

The battery condition meter is composed of 10 segments (three of red, four of yellow, and three of green). It enables you to monitor battery charge. The battery condition meter indicates the approximate amount of battery charge left.

- Red, yellow and green LEDs indicate that the batteries are fully charged
- Red and yellow LEDs indicate that you should charge the batteries if possible.
- Red LEDs indicate that you should charge the batteries as soon as possible,

because low battery voltage may cause your power wheelchair to become inoperative.

Note: When the batteries begin to approach a discharged state, the first red LED will begin to flash slowly, reminding you that the batteries need to be charged immediately.

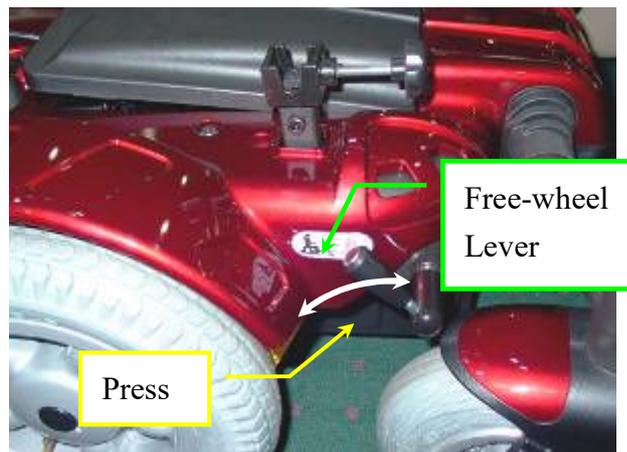
B. Free-Wheeling:

Because the motors are designed to engage the electromagnetic brakes when the vehicle is not in use or when the power is OFF, they also have a manual feature that allows them to “free-wheel”. Free-wheeling is accomplished by turning the free-wheeling levers to the freewheeling position.(See Fig 14)

Warning !

- Never free-wheel your power wheelchair on a slope.
- Never free-wheel the motors while operating your vehicle.
- Always remember to engage the motors before turning the power back ON.

Note: The free-wheeling lever is designed by special construction to operate when you want to disengage the electromagnetic brakes. Please press the end cap and rotate the lever when disengage. (See Fig 37)



(Fig 37)

Warning !

- Never free-wheel your power wheelchair on a slope.
- Never free-wheel the motors while operating your vehicle.
- Always remember to engage the motors before turning the power back ON.

C. Electromagnetic Brakes:

Your power wheelchair comes with an Electromagnetic Brakes, i.e. an automatic magnetic disc safety brake which is also known as Fail-Safe brake. The Electromagnetic Brakes are automatic and work when the power wheelchairs is ON but in a steady state (i.e. Joystick is released to the neutral position), even when the chair is on a slope. The Electromagnetic Brakes will also be set when-

ever the power wheelchair is OFF, but the motor levers are in the engaged (vertical) position.

Note: Please refer to the section titled to check brakes in the Maintenance & Repair section in page 22 to make sure brakes are in good condition.

D. Thermal Protection:

Your power wheelchair controller is equipped with a safety system called thermal rollback. A built-in circuit monitors the temperature of the controller and motors, the controller reduces the motor voltage and speed of the power wheelchair. The reduction of the speed allows the electrical components to cool down. Although your power wheelchair will resume its normal speed when the temperature returns to a safe level, we recommend that you turn the power off and wait for 5 minutes before restarting to allow the components to cool down if you find that you have lost speed suddenly.

E. Main Circuit Breaker:

Please see Fig 38 to check the circuit breaker location in the power chair.



(Fig 38)

The main circuit breaker monitors the electric current drawn from the battery. It is a safety feature built in your power wheelchair for your extra safety. When the batteries and motors are heavily strained (e.g., from excessive loads), the main circuit breaker will trip to prevent damage to the motors and the electronics. If the circuit breaker trips, wait for approximately one minute and then depress the button to reset it. Then turn on the controller power, and continue normal operation. If the main circuit breaker continues to trip repeatedly, contact your authorized dealer.

BATTERIES & CHARGER

BATTERY

We recommend that you use deep-cycle batteries that are sealed and maintenance free for your power wheelchair. Both sealed lead-acid (SLA) and gel cell are deep-cycle batteries and are similar in performance. Deep-cycle batteries are specifically designed to provide power, drain down, and then accept a relatively quick recharge. Lead-acid batteries should be charged as often as possible.

Specification of the battery that we recommend as:

Type:	Deep –cycle sealed lead-acid or gel cell
Size:	50AH, or 62 AH
Voltage:	12V each
Amp Hours:	50 or 62 amp hours

Depending on the use, terrain and driving conditions, the batteries will provide a range of 22.4 miles of travel. However, even if the power chair is not in use, we recommend that the batteries are charged periodically.

Note:

- Do not use any automotive batteries. They are not designed to handle a long, deep discharge and also are unsafe for use in power chairs.
- The useful life of a battery is quite often a reflection of the care it receives.

CHARGER

The battery charger takes the standard wall outlet voltage (alternating current)and converts it into VDC (direct current).The batteries use direct current to run your power chair. When the batteries are fully charged, the amperage from the charger is almost zero. This is how the charger maintains a charge but does not over-charge the battery.

Note: The batteries can not be charged after they are discharged to nearly zero voltage.

CHARGING INSTRUCTIONS

To recharge the batteries, follow the steps below:

- Place your power wheelchair close to a standard electrical wall outlet.
- Turn the controller power OFF
- Plug the charger power cord (Round head) into the controller
- Plug the charger power cord into a standard wall outlet. A red and a yellow (if battery charge is low) LEDs will illuminate.
- When charging is completed, the yellow LED will turn green.
- Disconnect the charger power cord from the wall outlet when the batteries are fully charged. (See Fig 39)

Important!

Do not use for voltage input unless specified. Make sure your present voltage input (110V or 220V) and adjust manually. (See Fig 40)



Controller

Plug-in Wall Outlet

(Fig 39)



Plug-in

(Fig 40)

Note:

- Always charge your batteries in well ventilated areas.
- The charger is intended for indoor use only. Protect from moisture.
- For maximum performance, it is recommended that you replace both batteries at the same time if the batteries are weak.
- If the chair will not be used for a long period of time, arrange to have the batteries fully charged for at least once every month.

According to the battery type and condition of the batteries, they usually can be fully charged in 4-10 hours. This will be indicated when the status light in the battery charger side panel turns green. Charging the battery longer than necessary will not harm the battery. We recommend that you charge the batteries for 8 to 10 hours after daily use. Do not charge the batteries for more than 24 hours.

MAINTENANCE & REPAIR

Your power wheelchair is designed for minimal maintenance. However, like any motorized vehicle it requires routine maintenance. To keep your power chair for years of trouble-free operation, we recommend you follow the maintenance checks as scheduled.

DAILY CHECKS

1. With the controller turned OFF, perform a joystick check. Make sure it is not bent or damaged and that it returns to center when you release it. Visually inspect the rubber boot around the base of the joystick for damage. Do not handle or try to repair it.
2. Visually inspect the controller harnesses. Make sure that they are not frayed, cut or have any exposed wires.
3. Inspect the battery condition meter on the controller to determine if batteries need to be charged.

WEEKLY CHECKS

1. Inspect the connections by disconnecting the controller and charger harnesses from the electronics connector housing. Look for signs of corrosion.
2. Ensure that all parts of the controller system are securely fastened to your power wheelchair. Do not over tighten any screws.
3. Check for proper tire inflation. Your power wheelchair comes with standard flat-free solid tires. If your power wheelchair comes with optional air tires, make sure to maintain the pressure of the tires between 30-35 psi.
4. Check the brakes. This test should be carried out on a level surface with at least three feet of clearance around your power wheelchair.

To check the brakes (your power wheelchair may move slightly when performing this test)

→ Turn on the controller and turn down the speed and response adjustment knob.

→ After one second, check that the battery condition meter remains on condition.

→ Slowly push the joystick forward until you hear the parking brakes click then immediately release the joystick. You must be able to hear each parking brake operate within a few seconds of joystick release

→ Repeat this test of the brake for the back, left and right joystick positions

SEMI-ANNUAL CHECKS

1. Check the motor brushes. We recommend that your authorized dealer inspects the brushes every six months, or sooner if your power wheelchair is not operating smoothly. If inspection determines excessive wear on the brushes, they must be replaced or motor damage will result.

Warning! Failure to maintain the brushes could void the power wheelchair warranty.

To inspect or replace the motor brushes:

1. Unscrew the motor brush caps. (See Fig 41)

2. Remove the brushes.
3. Inspect the brushes for wear (See Fig 42)
4. Replace the brushes if necessary.



New Motor Brush Worn Motor Brush
(Fig 41)



Motor Brush caps
(Fig 42)

1. Inspect the state of the battery terminals every six months. Make sure that they are not corroded and the connections are tight. Periodically apply a thin film of petroleum jelly on the surface of terminals to guard against corrosion.

PERIODICAL CHECKS

1. Make sure to keep the controller clean while protecting it from rain or water. Never hose off your power wheelchair or place it in direct contact with water.
2. Keep wheels free from lint, hair, sand and carpet fibers.
3. Visually inspect the tire tread. If less than 1/32", please have your tires replaced by your local dealer.
4. All upholstery can be washed with warm water and mild soap. Occasionally check the seat and back for sagging, cuts, tears and replace if necessary. Do not store your chair in damp condition as this will lead to mildew and rapid deterioration of the upholstery parts.
5. All moving mechanism will benefit from simple lubrication and inspection. Lubricate using petroleum jelly or light oil. Do not use too much oil, otherwise small drips could stain and damage carpets and furnishings etc. Always perform a general inspection of the tightness of all nuts and bolts.

If you get one of these error codes, contract your local dealer.

FLASHING LIGHTS	DIAGNOSIS AND SOLUTION
1	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 the battery.
2	The left motor has a bad connection. Check the left motor connection.
3	The left motor has a short circuit to a battery connection. Contact your local dealer.
4	The right motor has a bad connection. Check the right motor connection.
5	The right motor has a short circuit to a battery connection. Contact your local dealer.
6	The power chair is being inhibited by the battery charger. Unplug the battery charger.
7	A joystick fault is indicated. Make sure that the joystick is in the neutral (center) position before turning on the controller.
8	A controller system fault is indicated. Make sure that all connections are secure.
9	The parking brakes have a bad connection. Check the parking brake and motor connections. Make sure the controller connections are secure.
10	An excessive voltage has been applied to the controller. This is Usually caused by a poor battery connection. Check the battery connections.

The following symptoms could indicate serious problems with your power wheelchair.

Contact your local dealer if any of the following arises:

1. Motor noise
2. Frayed harnesses
3. Cracked or broken connectors
4. Uneven wear on any of tires
5. Jerky motion
6. Pulling to one side
7. Bent or broken wheel assemblies
8. Does not power up
9. Powers up, but does not move

CARE AND MAINTAINCE

Storage

- ⇒ Your power chair should be stored in a dry place, free from temperature extremes. When storing, disconnect the batteries from the power chair.
- ⇒ If you fail to store the unit properly, the frame can rust and the electronics can be damaged.
- ⇒ Batteries that are regularly and deeply discharged, infrequently charged, stored in extreme temperatures, or stored without a full charge may be permanently damaged, causing unreliable performance and limited service life. It is recommended that you charge the batteries periodically throughout periods of prolonged storage to ensure proper performance.
- ⇒ You may wish to place several boards under the frame of your power chair to raise it off of the ground during periods of prolonged storage.

Disposal of Your Power Chair

- ⇒ Your power chair must be disposed of according to applicable local and national statutory regulations. Contact your local waste disposal agency or authorized dealer for information on proper disposal of power chair packaging, metal frame components, plastic components, electronics, batteries, neoprene, silicone, and polyurethane materials.

Cleaning and Disinfection

- ⇒ Use a damp cloth and mild, non-abrasive cleanser to clean the plastic and metal parts of your power chair. Avoid using products that may scratch the surface of your power chair.
- ⇒ 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/or cleaning agent before applying it to your product. Failure to comply may result in skin irritation or premature deterioration of upholstery and/or power chair finishes.

Wheel Replacement

- ⇒ If you have pneumatic tires and you have a flat tire, replace the tube. If your chair is equipped with a solid tire insert, then you must replace the whole wheel assembly. Replacement tires, tubes, and wheel assemblies are readily available through your authorized dealer. The wheels on your power chair should only be serviced or replaced by an authorized dealer. Be sure that the power to the controller is turned off and the power chair is not in freewheel mode before performing this procedure. When changing a tire, remove only the center lug nut and washer, then remove the wheel. If any further disassembly is required, deflate the tire completely or it may explode.

Battery Replacement

- ⇒ A battery wiring diagram is printed on a decal located on the power base.
- ⇒ Battery posts, terminals, and related accessories contain lead and lead compounds. The batteries in your power chair should only be serviced or replaced by an qualified technician.
- ⇒ Do not replace batteries when seat is occupied.
- ⇒ Power chair batteries are heavy. See specifications table. If you are unable to lift that much weight, be sure to get help.
- ⇒ Do not mix old and new batteries. Always replace both batteries at the same time.
- ⇒ Keep tools and other metal objects away from the battery terminals. Contact with tools can cause electrical shock.

When to Contact Your Authorized Dealer for Service

The following symptoms could indicate a serious problem with your power chair. If necessary, contact your authorized dealer. When calling, have the model number, serial number, nature of the problem, and the error code if available.

- ⇒ Motor noise
- ⇒ Frayed harnesses
- ⇒ Cracked or broken connectors
- ⇒ Uneven wear on any of the tires
- ⇒ Jerky motion
- ⇒ Pulling to one side
- ⇒ Bent or broken wheel assemblies
- ⇒ Does not power up
- ⇒ Powers up, but does not move

Corrective Maintenance

If the battery condition meter does not light up when you turn on the power:

- ⇒ Check the harness connections. Make sure they are tight.
- ⇒ Check the circuit breaker. Reset it if necessary.
- ⇒ Check the battery connections.

If the above conditions prove normal, you can load test the batteries with a battery load tester. These testers are available at automotive parts stores. Disconnect both batteries before load testing and follow the directions that come with the load tester. If either one of the batteries fails the load test, replace both of them. If your power chair still does not power up, contact your authorized dealer.

PRODUCT SPECIFICATIONS

MODEL	P3D
WEIGHT CAPACITY	160kgs(350 lbs)
SEAT: TYPE/SIZE	Captain Seat: 18" Rehab Seat : 16" & 18"
DRIVE WHEEL	360mm x 75mm(14" x 3")
FRONT CASTER (WHEEL)	155mmx50mm(6"x2")
REAR CASTER (ANTI-TIPPER)	155mmx50mm(6"x2")
MAX SPEED	10KPH (6MPH)
BATTERY SPECIFICATIONS	12V 50Ah
BATTERY RANGE	30km(18miles)
CHARGER TYPE	5Amp,Off Board 120/240 Volt
CONTROLLER TYPE	VR2 90Amp
MOTOR TYPE	5100 RPM 500W(4-Pole) 32:1 x 2pcs
WEIGHT: W/ BATTERY	Captain Seat : 98kg (215 lbs) Rehab Seat :107kg (235lbs) Rehab W/Tilt :126kg (277lbs)
WEIGHT: W/O BATTERY	Captain Seat : 69kg (151 lbs) Rehab Seat : 78kg (171lbs) Rehab W/Tilt : 97kg (213lbs)
TURNING RADIUS	500mm(19.6")
SUSPENSION	Drive Wheel / Front Caster
LENGTH	930mm(36.5")
WIDE	600mm(23.5")
HEIGHT	1100mm(43")
SEAT HEIGHT	Captain Seat : 530mm (20.8") Rehab Seat : 530mm (20.8") Rehab W/Tilt : 630mm (24.8")
SEAT DEPTH	460mm(18")
BACK HEIGHT	685mm(27")
FOOTRESTS	400mm(15.7")