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Please carefully read this owner’s manual before using the power chair. Improper use of the power chair could result in injury.

This owner’s manual includes operating instructions for every aspect of the power chair, including assembly instructions and how to deal with possible accidents.

- The symbols used in this manual are explained below:
  - Warning: Improper usage could result in serious injury or death
  - Attention: Improper usage could lead to injury and/or damage to your power chair.
  - Suggestion: Follow these instructions to keep your power chair in a good operating order.

- This manual includes a copy of repair and maintenance record chart and warranty information.
  Please keep it in a safe place.
- If someone else uses the power chair, please make sure that you provide them with the instruction manual for his or her consideration.
- We reserve the right to make design modifications. As designs change some illustrations and pictures in the manual may not correspond to the power chair that you have purchased.

“Caution: Federal law restricts this device to sale by or on the order of a practitioner licensed by the law of the State in which he/she practices.”
2. SAFETY NOTICE

2.1 BEFORE DRIVING
The user should become familiar with the usage and operation of this power chair before driving. Therefore, please always keep the following safety notices in mind.

- For your safety, please follow these safety instructions
  - Drive on the pavement or pedestrian areas only.
  - Do not drive your power chair after consuming alcohol or when tired.
  - Please be careful when driving your power chair in low light.
    It is not been designed for use at night.
  - The power chair has been designed to operate on pavement or indoors for speeds not to exceed 5mph.

- Practice operating your power chair
  Before using the power chair, familiarize yourself with the operation of your power chair.
  - Set the speed dial to value 1 for your initial practice.
  - Be sure someone accompanies you for safety when operating your power chair for the first time.
  - Only use higher speed settings when you are confident that you can easily operate and control your power chair.

- The Image EC power Chair is only to be used by one person at a time
  Do not carry passengers on your power chair. (Including children)

- Do not use this power chair to carry or haul goods
  - The maximum weight with occupant is 300 lbs.

2.2 WHILE DRIVING
- Carry out daily inspections. Refer to the section titled “DAILY CHECKING”

- Do not move your body out of the power chair while moving
  - Such action may cause you to lose balance and risk serious injury.
  - Pay attention that your clothes do not get tangled in the wheels.

- Do not use your power chair under any of the following conditions.
  - On roads with heavy traffic or roads that are snow covered or icy.
  - Do not drive at night. Do not drive in rain or snow.
  - Do not drive your power chair in an “S” pattern or make erratic turns.
  - Do not take the power chair onto escalators.
  - UNDER NO CIRCUMSTANCES SHOULD THE POWER CHAIR BE USED AS A SEAT IN ANY OTHER MOVING VEHICLES INCLUDING SUV’S, BUSES OR TRAINS.
2. SAFETY NOTICE

■ Mobile Phones and Other Wireless Communication Devices
◆ Do not use a mobile phone or other wireless communication device while driving.
◆ Always stop and turn the power off before using a wireless communication device.
◆ Do not charge the mobile phone or any other electrical device from the power chair battery.

■ Automatic Power Shut Down
In order to avoid accidental battery run down, your power chair is equipped with an automatic power shut down. If the power chair is turned on, it will automatically turn off after remaining undisturbed for a period of thirty minutes. When this situation occurs, simply switch your power chair off and back on and it will be ready to use once again.

■ Ramps, inclines and drops
◆ Do not drive onto ramps that are steeper than the specified gradient. Refer to the section entitled “CLIMBING ANGLE” in 8. SPECIFICATION”
◆ Always use a low speed setting when ascending or descending a gradient.
◆ Do not drive on roads with large drops or potholes. Refer to the section entitled “MAX. GROUND CLEARANCE” in “8. SPECIFICATION”.
◆ Do not make sudden turns when driving on gravel roads, ramps or hills.
◆ Always lean forward when climbing a steep gradient.

■ Starting and Driving
1. Make sure the seat is installed properly.
2. Fold down the armrests so that you can rest your arms.
3. Turn the power switch to “ON”.
4. Check battery indicator to ensure proper power. If necessary, recharge the batteries.
5. Set the speed to a safe and comfortable speed.
6. Check the joystick lever to ensure it operates correctly.
7. Make sure the electromagnetic brake is operating correctly.
2. SAFETY NOTICE

⚠️ Warning!
◆ Do not set in the freewheel mode when driving on an incline or hill.
◆ Always re-engage the anti-freewheel device before use. Fail to do so may result in injury.
◆ Always fasten the seat belt when operating the power chair.
◆ To protect your safety, the power will automatically cut off and electromagnetic brake system will activate while driving down a steep incline or hill. This will limit the speed to a safe level. Turn the power on again to re-start your power chair.

◆ Maximum User Weight Limit
Refer to section titled “MAX. LOAD WEIGHT” in “8. SPECIFICATION”. Overloading past the weight limit may lead to damage of your power chair or cause it to malfunction and will endanger your own safety. The warranty does not cover this type of damage.

❗️ Attention
1. Avoid putting all of your weight on the footrest. This may cause the power chair to tip. Possibly resulting in injury.
2. Do not turn the power switch to OFF while driving as this will lead to an emergency stop and possible risk of accident and injury.
3. Do not set to high speeds while driving indoors.
4. Do not adjust the speed dial while driving; a sudden change in speed may cause danger to you and others, and may damage your power chair.
5. Do not place magnetic devices near the area of the controller as this could affect the safe operation of your power chair.
6. Be cautious while driving in crowded areas.
7. While backing up the power chair, be aware of people or objects behind you.

■ Stopping
◆ Release the joystick control lever completely. The power chair will come to a stop.
◆ Turn the power switch to (OFF). Remove the key.

■ Driving on the pavement
◆ Ensure the speed limit switch is set to the slowest setting when using the power chair. This will limit the power chair to a maximum speed of 5mph.
◆ The speed controller can be set to the fastest setting for use when safe.
2. SAFETY NOTICE

**Attention:** When climbing an incline, do not zigzag or drive at an angle up the face of the incline.

Always drive your power chair straight up the incline. This greatly reduces the possibility of a tip or a fall. Always exercise extreme caution when negotiating an incline.

Never travel up or down an incline that is or covered by snow or ice.

■ Inclines and uneven terrain

When climbing an incline, try to keep your power chair moving. If you must stop, start up again slowly and then accelerate cautiously. When driving down an incline, do so slowly and in the forward direction only. If your power chair starts to move faster than you anticipated or desired it would, allow the chair to come to a complete stop by releasing the joystick. Push the joystick slightly forward and continue traveling slowly down the incline.

■ Maximum recommended incline

The Image EC Power Chair has undergone extensive incline testing. Our results show that the maximum incline your Image EC can safely climb is eight degrees at maximum weight capacity. Five degrees is the angle of most handicap access ramps. Any attempt to climb a steeper slope may put your Image EC into an unstable position.
2. SAFETY NOTICE

This section provides the user with basic information that describes the problems with Electromagnetic interference (EMI), known sources of EMI, protective measures to either lessen the possibility or exposure or to minimize the degree of exposure, and suggested action should unexpected or erratic movement occur.

**Attention:** It is very important that you read this information regarding the possible effects of Electromagnetic interference on your Image EC power chair.

### ELECTROMAGNETIC INTERFERENCE (EMI) FROM RADIO WAVE SOURCES

Powered chair’s may be susceptible to electromagnetic interference (EMI), which is interfering electromagnetic energy (EM) emitted from sources such as radio stations, TV stations, amateur radio (HAM) transmitters, two-way radios, and cellular phones. The interference (from radio wave sources) can cause the power chair to release its brakes, move by itself, or move in unintended directions. It can also permanently damage the powered wheelchair’s control system. The intensity of the interfering EM energy can be measured in volts per meter (V/m). Each power chair can resist EMI up to a certain intensity; this is called its “immunity level”. The higher the immunity level, the greater the protection. At this time, current technology is capable of achieving at least a 20 V/m immunity level, which would provide useful protection from the more common sources of radiated EMI. This power chair model has as shipped as with no further modification an immunity level of 20 V/m without any accessories.

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

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

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

   **Attention:** Some cellular telephones and similar devices transmit signal while they are ON, even when not being used.

2. Medium-range mobile transceivers, such as those used in police cars, fire trucks, ambulances and taxis. These usually have the antenna mounted on the outside of the power chair.

3. Long-range transmitters and transceivers, such as commercial broadcast transmitters (radio and TV broadcast antenna towers) and amateur (HAM) radios.
3. EMI

**Attention:** Other types of hand-held devices, such as cordless phones, laptop computers, AM/FM radios, TV sets, CD players, cassette and small appliances such as electric shavers and hair dryers are not likely to cause EMI problems with your power operated vehicle.

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**POWER OPERATED VEHICLE ELECTROMAGNETIC INTERFERENCE (EMI)**

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

**WARNINGS**

Electromagnetic interference (EMI) from sources such as radio and TV stations, amateur radio (HAM) transmitters, two-way radios, and cellular phones can affect your power operated vehicle. Following the warnings listed below should reduce the chance of unintended brake release or power operated vehicle movement which could result in serious injury.

1. Do not operate hand-held transceivers-receivers, such as citizens band (CB) radios, or turn ON personal communication devices such as cellular phones, while the power operated vehicle 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 power operated vehicle **OFF** as soon as it is safe;
4. Be aware that adding accessories or components, or modifying the power operated vehicle may make it more susceptible to EMI (Note: There is no easy way to evaluate their effect on the overall immunity of the power operated vehicle.
5. Report all incidents of unintended movement or brake release to the power operated vehicle’s manufacturer, and note whether there is a source of EMI nearby.

**IMPORTANT INFORMATION**

1. 20 Volts per meter (V/m) is a generally achievable and useful immunity level against EMI (the higher the level, the greater the protection);
2. This product has an immunity level of 20 V/m without any accessories and connected to it.
4. PARTS INTRODUCTION

PARTS DESCRIPTION
1. Controller
2. Armrest
3. Headrest
4. Seatback
5. Seat
6. Seatback Release Lever
7. Drive Wheel
8. Caster Wheel
9. Footrest
10. Seat Belt
11. Drive Engage Levers
12. Joystick Adjustment knob
13. Rear Casters
5. OPERATION

JOYSTICK AND CONTROLLER

Your Image EC is operated by a joystick and controller. The Image EC is currently available with the PG VR2 Controller.

VR2 Series CONTROL FUNCTIONS

1. ON/OFF Button  
2. Battery Gauge  
3. Joystick  
4. Maximum Speed / Profile Indicator  
5. Speed / Profile Decrease Button  
6. Horn Button  
7. Speed / Profile Increase Button

HOW TO OPERATE YOUR Image EC

◆ ON/OFF Button

The ON/OFF button applies power to the control system electronics, which in turn supply power to the power chair’s motor. Do not use the ON/OFF button to stop the power chair unless there is an emergency.

**Attention:**

If you use the ON/OFF button to stop the power chair, it may shorten the life of the drive components.

◆ Battery Gauge

The battery gauge shows you that the power chair is switched on. It also indicates the operating status of the power chair.

◆ Joystick

The primary function of the joystick controls the speed and direction of the power chair. The further you push the joystick from the center position the faster the power chair will move. When you release the joystick the brakes are automatically applied.

◆ Maximum Speed / Profile Indicator

This gauge shows the maximum speed setting of the power chair.

There are five speed settings. Step 1 is the lowest speed and Step 5 is the highest speed.
5. OPERATION

**Attention:**

We recommend that the first few times you operate your Image EC you set the speed adjustment button to the slowest setting until you become familiar with your new power chair.

**◆ 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.

**◆ Horn Button**

Press either button to sound the horn.

**◆ Speed / Profile Increase Button**

This button increases the maximum speed setting or, if the control system is programmed for drive profile operation, selects a lower drive profile.

**◆ Locking / Unlocking the power chair controller**

**Locking the power chair.**

1. While the control system is switched on, depress and hold the on/off button.
2. After 1 second the control system will beep. Now release the on/off button.
3. Deflect the joystick forwards until the control system **beeps.**
4. Deflect the joystick in reverse until the control system **beeps.**
5. Release the joystick, there will be a long beep.
6. The power chair is now locked.

**Unlocking the power chair.**

1. Use the on / off button to switch the control system on. The maximum speed / profile indicator light will be cycling side to side.
2. Deflect the joystick forwards until the control system **beeps.**
3. Deflect the joystick in reverse until the control system **beeps.**
4. Release the joystick, there will be a long beep.
5. The power chair is now unlocked.
5. OPERATION

■ JOYSTICK DEPTH ADJUSTMENT

Your power chair may be equipped with an adjustable joystick. This function enables you to move the joystick from the armrest to the desired position.

ℹ️ Suggestion

1. You should recharge the batteries after each time the power chair is used to ensure maximum range. The batteries should be charged at least once a week, even if the power chair is not used.
2. After charging or replacing a new battery, drive the power chair for 2-3 minutes to make sure the battery capacity is sufficient.
3. In cold weather, the battery may respond more slowly and the battery range may be reduced.
4. When driving on a gradient, the battery indicator light may move up and down. This is a normal phenomenon and should not cause concern.
5. Even with proper care and use of the battery, it is natural for the battery’s capacity to reduce with time. Therefore, when the battery’s range is about 50% of the range when the batteries were new, it is time for the batteries to be replaced. Please contact your dealer about replacement batteries. If an old battery is used, it can lead to a rapid decline in performance.
6. The battery range will be reduced when driving frequently on a slope or on rough terrain as this requires a greater consumption of power.
7. The batteries have a six month warranty covering manufacturing defect. This warranty does not cover faults due to incorrect battery recharging.

■ BRAKING

Electromagnetic brake: Release the speed control lever completely, the electromagnetic brake will be activated automatically and the power chair will stop.
5. OPERATION

**Warning**
When on an incline, NEVER switch the power chair to the freewheel mode. The electromagnetic brakes will not be applied and this may result in injury.

**HOW TO ADJUST THE SEAT**

- **To adjust the seatback angle**
  - Pull up the seatback release lever.
  - Move the seatback down or up to the desired position.
  - Release the seatback release lever.

- **To adjust the armrest width**
  - Loosen the knobs
  - Slide the armrests in or out to the desired width.
  - Tighten the knobs.

- **To adjust the armrests angle**
  - Lift-up the armrest.
  - Loose the jam nut.
  - Adjust the socket screw up or down to the desired arm angle position.
  - Tighten the jam nut
  - To determine the same angle for the opposite armrest, count the exposed threads after the jam nut has been tightened.
  - If necessary, repeat the steps for the opposite armrest.
5. OPERATION

- **To adjust the armrests height**
  - Press the button.
  - Move the armrest to the required position.

- **To adjust the headrest**
  - To raise headrest, lift it to the desired position.
  - To lower headrest, push release tab towards the inside of the chair and lower the headrest to the desired position.

- **To remove the seat**
  1. Turn the power OFF.
  2. Make sure the Image EC is not in freewheel mode.
  3. Push the seat rotate lever while pulling up on the seat to remove.
5. OPERATION

To change the seat height
1. Remove seat (See “To remove the Seat”)
2. Remove the shroud.
3. Disengage and remove the seat height adjustment bolt from the seat post.
4. Remove the height adjustment bolt from each of the three posts.
5. Raise or lower each post to the desired position.
6. Reinstall the seat height adjustment bolt through the seat post.
7. Reinstall the shroud.
8. Reinstall the seat.

HOW TO ADJUST THE FOOTREST

To adjust the footrest angle
You can adjust the angle of the footrest with a hex wrench (M6).
◆ Turn the setscrew clockwise to raise the front of the footrest.
◆ Turn the setscrew clockwise to lower the front of the footrest.

To adjust the footrest height
◆ Remove the quick release pin.
◆ Adjust footboard to one(1) of three (3) mounting positions.
◆ Install the quick release pin. Make sure the detent ball is engaged with the outer edge of the tube.

HOW TO SET THE FREEWHEEL MODE

For your convenience, the Image EC Plus is equipped with a freewheel level. This level allows you to disengage the drive motors and maneuver the chair manually.

To engage the drive and take power chair out of freewheel
◆ Pull the freewheel lever to the “DRIVE” position (left and right).
◆ Activation of the joystick automatically releases the brake so the powered Image EC can be driven.

To disengage the drive and place power chair in freewheel
◆ Push the freewheel lever to “NEUTRAL” position (left and right).
5. OPERATION

**Warning**
Do not use your Image EC Power Chair while the drive motors are disengaged unless you are in the presence of an attendant! Do not disengage the drive motors when on an incline as the power chair may roll down, causing injury!

**Suggestion**
If a level is difficult to move in either direction, gently rock the power chair back and front; the level should then move to the desired position.

**CIRCUIT BREAKERS**
The Image EC Power Chair has a circuit breaker protruding through the shroud cover at the right of the power chair.

- In the unlikely event of a short circuit or heavy overload, all power to the power chair will be shut off.
- To reset, depress the circuit breaker button. A few minutes wait is required before the circuit breaker will reset.
- If the power chair continues to shut down after resetting have it serviced by a dealer.
5. OPERATION

HOW TO ADJUST THE SWIVEL SEAT

Above: Seat shown in the four possible “ENGAED” positions
Below: Seat shown in the four possible “REMOVABLE” positions
6. BATTERY CHARGING AND CARE

BATTERIES

◆ The Image EC Power Chair uses two long-lasting, 12 volt, deep-cycle batteries. These batteries are sealed and maintenance free. Since they are sealed, there is no need to check the electrolyte (fluid) level. Deep-cycle batteries are designed to handle a longer and deeper 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 unsafe for use in powered power chairs.

◆ These batteries are maintenance free and there is no need to refill with water.

◆ Do not expose the battery to temperatures below 50°F (10°C) or above 122°F (50°C) when charging or storing the power chair. Under the above temperature range can cause the battery either to freeze or overheat, causing damage and shortening its life.

**Warning**

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

■ Use proper batteries

◆ Your power chair operates on two 12 volt batteries.

◆ They should be U1 size with minimum of 36amp hour rating. Only deep cycle sealed case construction batteries should be used in the power chair.

◆ When you buy a replacement, insist on a deep cycle sealed case. Do not use any other type.

CHARGING THE BATTERIES

The battery charger is essential in providing long battery life. Located underneath the utility tray, it is designed to optimize your Image EC performance by charging safely, quickly and easily. The power chair (optional) amp meter and charger plug are located on the utility tray for easy viewing. The Amp meter indicates the rate of charge being administered to fully recharge the batteries. It is also a good indication of whether or not the charger is working. The Amp meter and the charger are only functional when the charger power cord is plugged into a wall outlet.

■ To charge the batteries using the onboard charger

◆ Position the rear of Image EC close to a standard wall outlet.

◆ Be certain the controller power is turned off and the freewheel levers are in the engaged position.

◆ Slide the cover of charger plug.

◆ Extend the charger power cord and plug it into the wall outlet.

◆ The (optional) Amp meter indicates how much charge is needed to fully charge the batteries. Wait about a minute for the charger to warm up. The Amp meter may move as high as 3 amps, then gradually move back down to 0 amps as the batteries charge.

We recommended you charge the batteries for 8 to 14 hours. As the batteries charge, the Amp meter needle slowly drops to zero. When the batteries are fully charged, the needle vibrates on or near the zero mark on the Amp meter scale.

◆ When the batteries are fully charged, unplug the power cord from the wall outlet.

◆ Replace the cover of charger plug.
6. BATTERY CHARGING AND CARE

To charge the batteries using the off-board charger
- Position the power chair next to a standard wall outlet.
- Be certain the controller power is turned off.
- Open the charging socket cap on the rear shroud. Then connect the charging cable into the charging socket.
- Plug the charging cable into the wall outlet.
- We also recommended that the batteries are not charged for more then 24 hours.
- When your Image EC batteries are fully charged, unplug the charging cable from the wall outlet.
- Disconnect the charging cable from the Image EC.

Warning
1. Keep away from flammable objects while charging as it may lead to fire or explosion of battery.
2. Do not smoke while charging as the battery may release hydrogen gas. Always charge the battery in a well-ventilated space.
3. Avoid electric shock! Never connect or disconnect the plug or cord with wet hands while charging. Do not connect or disconnect the plug or cord when they are wet.

Attention - Follow these safety rules below to avoid accidents while charging.
1. Use the manufacturer’s supplied charger only, and recharge the battery to its full capacity every time. You may damage the battery and power chair if you use a charger which is not correctly specified.
2. Charge in a well-ventilated space not directly exposed to sunlight. Do not charge in areas that are humid or exposed to rain, mist or dew.
3. Do not charge in temperatures 14°F (-10°C) or higher than 122°F (+50°C) as the charger may cause battery damage.

Suggestion – How to maximize your battery’s efficiency and service life
1. Fully charge any new battery before its initial use.
2. Be sure to charge the battery after each use. Battery power will be reduced if the battery is used without being fully charged.
3. If the power chair is not used for an extended period, batteries should be charged at least weekly.
4. The ambient temperature affects charging time, it will be longer in the cold temperatures.
5. After charging, do not leave the charger socket plugged in.
6. BATTERY CHARGING AND CARE

■ Cleaning the battery
If the batteries are contaminated by water, battery acid, dust or other substances, they will discharge quickly. The batteries supplied with the power chair are sealed and as such are maintenance free with no risk of battery leakage. Please follow the steps below to clean the battery.
1. Turn the Image EC power switch to OFF.
2. Remove the seat.
3. Remove the shroud and unplug the terminal of the taillight and signal lights.
4. Use a clean cloth to wipe off the soiled area.
5. Remove the battery.
6. Wipe with a clean cloth. If the terminal is covered with white powder, wipe it clean using warm water.
7. Do not touch the battery posts.

■ Batteries replacement
1. Remove the seat. (See “To remove the seat”)
2. Remove the shroud.
3. Disconnect the negative terminal (black) wires first, then the positive terminal (red) wires by removing the four nuts and bolts from each of the battery terminals.
4. Remove the batteries.
5. Place new battery.
6. Connect the positive terminal (red) wires first, then the negative terminal (black) wires by tightening the nuts and each battery terminal.
7. Install the shroud and seat.
8. Do not touch the battery posts.

️ Warning
Be sure the battery wires are connected to the right battery terminal.

นม Suggestions
1. Make sure the terminals are installed properly and replace the cover.
2. Battery efficiency will vary with outside conditions- driving range will be reduced in cold weather If the power chair is not used for a long time, charge the battery at least once a week.
3. Replace both batteries together.
### INSPECTION AND MAINTENANCE

Initial adjustments should be made to suit personal body structure and preference. Be sure to follow these checks and maintenance procedures.

<table>
<thead>
<tr>
<th>NO.</th>
<th>Item</th>
<th>initially</th>
<th>weekly</th>
<th>monthly</th>
<th>periodically</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>General (Mechanical Troubleshooting)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
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<tr>
<td></td>
<td>♦ power chair rolls straight (no excessive drag or pull to one side)</td>
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<td></td>
<td></td>
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<tr>
<td>2</td>
<td>Arms</td>
<td>0</td>
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<td></td>
<td>♦ Secure but easy to release; adjustment levers engage properly.</td>
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<tr>
<td></td>
<td>♦ Adjustable height arms operate and lock securely.</td>
<td>0</td>
<td>0</td>
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<tr>
<td></td>
<td>♦ Pivot point free of wear and looseness.</td>
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<td>0</td>
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<td>3</td>
<td>Seat and back upholstery</td>
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<td>0</td>
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<td></td>
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<tr>
<td></td>
<td>♦ Inspect for rips or sagging.</td>
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<tr>
<td>4</td>
<td>Seat</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>♦ Seat secured to the power chair frame.</td>
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<tr>
<td></td>
<td>♦ Inspect seat release latches</td>
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<td></td>
<td></td>
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<tr>
<td>5</td>
<td>Drive wheel</td>
<td>0</td>
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<tr>
<td></td>
<td>♦ Mounting bolts are secure</td>
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<td></td>
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<tr>
<td></td>
<td>♦ No excessive side movement or binding when lifted and spun when disengaged (free-wheeling)</td>
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<td>0</td>
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</tr>
<tr>
<td>6</td>
<td>Caster assemblies</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>♦ Bolts are tight.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>♦ Inspect caster assembly for proper tension by spinning caster assembly; caster assembly should come to a gradual stop.</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Attention:</strong> As with any power chair, the wheels and tires should be checked periodically for cracks and wear, and replaced if necessary.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Caster assemblies/ wheel</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>♦ Ensure all fasteners are secure.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Wheels/tires</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>♦ Inspect for flat fasteners are secure.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Attention:</strong> As with any power chair, the wheels and tires should be checked periodically for cracks and wear, and replaced if necessary.</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Cleaning</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>♦ Clean upholstery and armrests.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
7. INSPECTION AND MAINTENANCE

REGULAR MAINTENANCE RECORD
To make sure your power chair is correctly serviced, take it to your dealer for regular maintenance checks. The initial inspection should be made after the first month’s use, thereafter every six months. Your dealer may charge a fee for this.

<table>
<thead>
<tr>
<th>YEAR</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Dates</td>
<td>Service Dates</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Controller</td>
<td>Upholstery</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>On/off switch</td>
<td>Seat</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Joystick</td>
<td>Back</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Braking</td>
<td>Armrests</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recharge point</td>
<td>Electrics</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Batteries</td>
<td>Connections</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Batteries</td>
<td>condition</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Levels</td>
<td>Utility tray</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connections</td>
<td>Test run</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Discharge test</td>
<td>Forwards</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wheels and Tires</td>
<td>Reverse</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wear</td>
<td>Stop</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pressure</td>
<td>Left turn</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bearings</td>
<td>Right turn</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wheel nuts</td>
<td>Slope test</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motors</td>
<td>Over obstacles</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wiring</td>
<td>List Items repaired</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Noise</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Connections</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brake</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brushes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chassis/Footrest</td>
<td>Condition</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chassis/Footrest</td>
<td>Footrest</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

BATTERY, FUSE AND TIRE

■ Battery
Refer to the section titled “BATTERY CHARGING AND CARE”

.configuration
Ask for help from your Image EC dealer to inspect or replace the fuse as the steering shroud must be removed for access

■ Tires
The condition of the tires depends on how you drive and use your power chair.
◆ Inspecting Tire Tread
◆ Please check the tread depth regularly. Replace the tires when the tread depth is less than 0.5 mm.
7. INSPECTION AND MAINTENANCE

**Attention**
When tread depth is below 0.5mm it can easily lead to power chair slippage, making braking distances longer. Therefore replace the tyres as early as possible when they are found to have insufficient tread depth.

**Attention**
Before doing any maintenance, turn the power switch to OFF and remove the charger cords.

**Suggestions**
1. Do not splash water onto the power chair as this could cause the electronic system to malfunction.
2. Do not use caustic materials, solvents or aerosols as these may deform or damage the shrouds.
3. Do not use wax.

**STORAGE**
Make sure the power chair is stored as follows:
- With the charger unplugged
- With the power switch OFF

**Suggestion**
Always store the power chair in a location where it is out of direct sunlight, rain or dew. If storing for an extended period, charge the battery to full power and then disconnect the battery terminal. For details inquire to your dealer.
# Troubleshooting and Specification

## Troubleshooting

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Probable cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limited driving distance</td>
<td>♦ Batteries not fully charged. ▻ Batteries weak won’t hold charge.</td>
<td>♦ Charge batteries overnight or ensure 10 hours of charge between uses. Make sure setting on charger is correct. ▻ Replace batteries</td>
</tr>
<tr>
<td>Batteries not charging.</td>
<td>♦ Charger not working</td>
<td>♦ Replace charger.</td>
</tr>
<tr>
<td></td>
<td>♦ Battery connections loose.</td>
<td>♦ Check all connections. Secure connections.</td>
</tr>
<tr>
<td></td>
<td>♦ No current at wall outlet.</td>
<td>♦ Switch to another wall outlet.</td>
</tr>
<tr>
<td></td>
<td>♦ Bad connection on charger, charger cable, plug or internal wiring problem.</td>
<td>♦ Replace charger or internal repairs required. Contact dealer.</td>
</tr>
<tr>
<td>Batteries not charging.</td>
<td>♦ Bad batteries</td>
<td>♦ Replace batteries</td>
</tr>
<tr>
<td>Batteries draw excessive current when charging.</td>
<td>♦ Battery failure.</td>
<td>♦ Replace batteries</td>
</tr>
<tr>
<td>Charge indicator shows low charge Level immediately after charging.</td>
<td>♦ Batteries weak won’t hold charge. ▻ Electrical malfunction.</td>
<td>♦ Replace battery</td>
</tr>
<tr>
<td></td>
<td>♦ Charger not operating.</td>
<td>♦ Contact dealer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>♦ Replace charger</td>
</tr>
<tr>
<td>Battery indicator flashes the charge level is low-too soon after being recharged.</td>
<td>♦ Have charger checked.</td>
<td>♦ Service or replace charger. Contact dealer</td>
</tr>
<tr>
<td></td>
<td>♦ Weak batteries.</td>
<td>♦ Replace batteries</td>
</tr>
<tr>
<td>Wheelchair will not drive</td>
<td>♦ Motor release levers disengaged. ▻ Battery require charging.</td>
<td>♦ Engage motor release levers.</td>
</tr>
<tr>
<td></td>
<td>♦ Charger plugged in.</td>
<td>♦ Charge batteries. Make sure setting on charger is correct.</td>
</tr>
<tr>
<td></td>
<td>♦ Circuit breaker tripped.</td>
<td>♦ Unplug charger from wall outlet.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>♦ Reset breaker. If breaker trips again, it may indicate need for internal repairs. Contact dealer.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>♦ Contact dealer</td>
</tr>
<tr>
<td>Motor “chatter” or runs irregularly.</td>
<td>♦ Electrical malfunction.</td>
<td>♦ Contact dealer</td>
</tr>
<tr>
<td>Joystick erratic or does not respond as desired.</td>
<td>♦ Electrical malfunction. ▻ Controller programmed improperly.</td>
<td>♦ Contact dealer</td>
</tr>
<tr>
<td>Only one (1) rear wheel turns.</td>
<td>♦ Electrical malfunction.</td>
<td>♦ Contact dealer</td>
</tr>
<tr>
<td></td>
<td>♦ One (1) motor release lever is engaged.</td>
<td>♦ Disengage motor release lever.</td>
</tr>
<tr>
<td>Wheelchair does not respond to commands.</td>
<td>♦ Poor battery terminal connection.</td>
<td>♦ Clean terminals.</td>
</tr>
<tr>
<td>Power indicator off even after recharging.</td>
<td>♦ Electrical malfunction.</td>
<td>♦ Contact dealer</td>
</tr>
</tbody>
</table>
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>IMAGE EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimension (L×W×H )</td>
<td>41.75’’ x 24.6’’ x 43.25’’ / 1060x625x1100 mm</td>
</tr>
<tr>
<td>Weight, with batteries</td>
<td>192 lbs / 87 Kg</td>
</tr>
<tr>
<td>Without batteries</td>
<td>139 lbs / 63 Kg</td>
</tr>
<tr>
<td>Battery</td>
<td>12V 36h×2</td>
</tr>
<tr>
<td>Motor</td>
<td>200W × 2</td>
</tr>
<tr>
<td>Charger</td>
<td>DC24V 4A OFF-BOARD</td>
</tr>
<tr>
<td>Front wheels</td>
<td>6.0’’ × 2.0’’ Solid / 150 × 50 mm</td>
</tr>
<tr>
<td>Drive wheels</td>
<td>10.2’’ × 3.3 ‘’ Solid / 260 × 85 mm</td>
</tr>
<tr>
<td>Anti-tip wheels</td>
<td>6.0’’ × 2.0’’ Solid / 150 × 50 mm</td>
</tr>
<tr>
<td>Driving system</td>
<td>Direct drive the mid wheel</td>
</tr>
<tr>
<td>Brake system</td>
<td>Electromagnetic brakes</td>
</tr>
<tr>
<td>Top speed (approximate)</td>
<td>5mph / 7 km/hr</td>
</tr>
<tr>
<td>Climbing angle</td>
<td>8°</td>
</tr>
<tr>
<td>Cruising range</td>
<td>12.5<del>18.5mi / 20</del>30 km</td>
</tr>
<tr>
<td>Turning radius</td>
<td>27.5’’ / 700 mm</td>
</tr>
<tr>
<td>Armrests</td>
<td>Adjustable Width, Angle, Height</td>
</tr>
<tr>
<td>Footrest</td>
<td>Adjustable Height, Angle</td>
</tr>
<tr>
<td>Maxus weight</td>
<td>300 lbs / 136 kg</td>
</tr>
<tr>
<td>Controller</td>
<td>PG VR2 50A</td>
</tr>
</tbody>
</table>

Please note that the maximum range is based on an ambient temperature above 48°F, a 165 lb driver, a brand new and fully charged battery, and a constant driving speed of 4mph with 70% battery power discharged, driving on a flat surface.

**NOTE:** Specifications are subject to change without notice.
## 8. TROUBLESHOOTING AND SPECIFICATION

### Self-Help Guide

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

Overleaf 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 that matches the number of flashing bars and follow the instructions.

If the problem persists after you made the checks described above contact your service agent.

<table>
<thead>
<tr>
<th>1 bar</th>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 bars</td>
<td>The left hand motor has a bad connection. Check the connections to the left hand motor.</td>
</tr>
<tr>
<td>3 bars</td>
<td>The left hand motor has a short circuit to a battery connection. Contact your service agent.</td>
</tr>
<tr>
<td>4 bars</td>
<td>The right hand motor has a bad connection. Check the connections to the right hand module.</td>
</tr>
<tr>
<td>5 bars</td>
<td>The right hand motor has a short circuit to a battery connection. Contact your service agent.</td>
</tr>
<tr>
<td>6 bars</td>
<td>The wheelchair is being prevented from driving by an external signal. The exact cause will depend on the type of wheelchair you have, one possibility being that the battery charger is connected.</td>
</tr>
<tr>
<td>7 bars</td>
<td>A joystick fault is indicated. Make sure that the joystick is in the center position before switching on the control system.</td>
</tr>
<tr>
<td>8 bars</td>
<td>A control system fault is indicated. Make sure that all connections are secure.</td>
</tr>
<tr>
<td>9 bars</td>
<td>The parking brakes have a bad connection. Check the parking brake and motor connections. Make sure the control system connections are secure.</td>
</tr>
<tr>
<td>10 bars</td>
<td>An excessive voltage has been applied to the control system. This is usually caused by a poor battery connection. Check the battery connections.</td>
</tr>
</tbody>
</table>
9. WARRANTY

9.1 WARRANTY

There is a limited lifetime warranty on your new Image EC power chair. The warranty covers the power chair for parts only during this period. For more detail, please see the Warranty Conditions below.

Warranty Conditions:

Any work or replacement part installation must be carried out by an authorized Drive dealer / service agent. To apply the warranty should your power chair require attention please contact your service provider.

The warranty on your new Image EC power chair is as follows:

a) Frame: Limited Lifetime Warranty
b) Electronics: 12 months limited warranty
c) Battery: 6 months

Note: The warranty is not transferable

Any replaced parts will be covered by this warranty for the balance of the warranty period on the power chair. Parts replaced after the original warranty has expired will by covered by a three months warranty.

Wearable items will not generally be covered under the normal warranty period which includes but not limited to the seat assembly or cover, tires, shroud, armrests, footplates, and lights.

The above warranty conditions apply to brand new power chairs purchased at the full retail price. If you are unsure whether your power chair is covered, check with the service agent.

Under normal circumstances, no responsibility will be accepted where the power chair has failed as a direct result of:

a) The power chair part not having been maintained in accordance with the manufacturer’s recommendations.
b) Failure to use the manufacturer’s specified parts
c) The power chair or part having been damaged due to neglect, accident or improper use
d) The power chair or part having been altered from the manufacturer’s specifications or repairs having been attempted before the service agent is notified

Please note your local service agent’s contact details in the box below. In the event of your power chair requiring attention, contact them and give all relevant details so they can act quickly. The manufacturer reserves the right to alter without notices any weights, measurements or other technical data shown in this manual. All figures, measurements and capacities shown in this manual are approximate and do not constitute specifications.

<table>
<thead>
<tr>
<th>Name</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td></td>
</tr>
<tr>
<td>Tel</td>
<td></td>
</tr>
<tr>
<td>Postcode</td>
<td></td>
</tr>
</tbody>
</table>
VIN (POWERCHAIR IDENTIFICATION NUMBER)
To ensure the correct after sales, service and warranty service support, please write down the power chair identification number found on the rear right-hand side of the frame.

<table>
<thead>
<tr>
<th>Model</th>
<th>IMAGE EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>VIN</td>
<td></td>
</tr>
<tr>
<td>Motor serial #</td>
<td>Controller #</td>
</tr>
</tbody>
</table>

Warranty Application Form

<table>
<thead>
<tr>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date of Birth</td>
</tr>
<tr>
<td>Year       Month       Day</td>
</tr>
<tr>
<td>Address</td>
</tr>
<tr>
<td>Model</td>
</tr>
<tr>
<td>VIN</td>
</tr>
<tr>
<td>Power chair VIN:</td>
</tr>
<tr>
<td>Motor Serial No:</td>
</tr>
<tr>
<td>Controller #</td>
</tr>
<tr>
<td>Date of Purchase</td>
</tr>
<tr>
<td>Year       Month       Day</td>
</tr>
<tr>
<td>Purchaser Signature</td>
</tr>
</tbody>
</table>

Please Mail To:

Drive Medical Design and Manufacturing
99 Seaview Blvd
Port Washington, NY 11050
Attn: Warranty Department