

Stealth Products[®]



**Alternative
Drive Controls**



PMPJ

Owner's Manual - Maintenance Guide
9-Pin Precision Mini Proportional Joystick

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Stealth Products is committed to 100% customer satisfaction. Your complete satisfaction is important to us. Please contact us with feedback or suggestions to help us improve the quality and usability of our products.

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General

Read and understand all instructions prior to the use of the product. Failure to adhere to instructions and warnings in this document may result in property damage, injury, or death. Product misuse or failure to follow instructions will void the warranty.

Immediately discontinue use if any function is compromised, if parts are missing or loose, or if any component shows signs of excessive wear. Consult with your supplier for repair, adjustment, or replacement.

All persons responsible for fitting, adjustment, and daily use of the devices discussed in these instructions must be familiar with and understand all safety aspects of the devices mentioned. In order for our products to be used successfully, you must read and understand all instructions and warnings, and maintain our products according to our instructions on care and maintenance.

The installation instructions will guide you through this product's options and possibilities.

Instructions are written with the expressed intent of use with standard configurations. They also contain important safety and maintenance information, as well as describe possible problems that can arise during use. For further assistance, or more advanced applications, please contact your supplier or **Stealth Products** at (512) 715-9995 or toll free at (800) 965-9229.

Always keep the operating instructions in a safe place so they may be referenced as necessary.

All information, pictures, illustrations, and specifications are based on the product information that was available at the time of printing. Pictures and illustrations shown in these instructions are representative examples and are not intended to be exact depictions of the various parts of the product.

 **CAUTION**

These products are designed to be fitted, applied, and installed exclusively by a healthcare professional trained for these purposes. The fitting, application, and installation by a non-qualified individual could result in serious injury.

Warranty

Our products are designed, manufactured, and produced to the highest of standards. If any defect in material or workmanship is found, Stealth Products will repair or replace the product at our discretion. Any implied warranty, including the implied warranties of merchantability and fitness for a particular purpose, shall not extend beyond the duration of this warranty. **Stealth Products** does not warrant damage due to, but not limited to: misuse, abuse, or misapplication of product, and/or modification of product without written approval from **Stealth Products, LLC**. Any alteration or lack of serial number, where applicable, will automatically void all warranty.

Stealth Products, LLC is liable for replacement parts only. **Stealth Products, LLC** is not liable for any incurred labor costs.

Stealth Products warrants against failure due to defective materials or workmanship:

Covers: 2 years
Hardware: 5 years
Electronics: 3 years

In the event of a product failure covered by our warranty, please follow the procedures outlined below:

Call **Stealth Products** at (512) 715-9995 or toll free at (800) 965-9229.

Request a Return Authorization (RA) form from the Returns Department and follow the documentation instructions.

You can download additional copies of this manual by accessing the Stealth website (<https://stlpro.site/stealth-docs>) and searching "PMPJ User Manual" in the search bar at the top of the page.

Supplier Reference

Supplier:	
Telephone:	
Address:	
Purchase Date:	
Model:	

Warning Labels

Warnings are included for the safety of the user, client, operator, and property. Please read and understand what the signal words **DANGER**, **WARNING**, **CAUTION**, **NOTICE**, and **SAFETY** mean, and how they could affect the user, those around the user, and property.



DANGER

Identifies an **imminent** situation which, if not avoided, may result in **severe injury, death, and property damage**.



WARNING

Identifies a **potential** situation which, if not avoided, may result in **severe injury, death, and property damage**.



CAUTION

Identifies a **potential** situation which, if not avoided, may result in **minor to moderate injury and property damage**.

NOTICE

Identifies important information not related to injury, but possible **property damage**.

SAFETY

Indicates steps or instructions for safe practices, reminders of safe procedures, or important safety equipment that may be necessary.

Limited Liability

Stealth Products, LLC accepts no liability for personal injury or damage to property that may arise from the failure of the user or other persons to follow the recommendations, warnings, and instructions in this manual.

Stealth Products does not hold responsibility for final integration of final assembly of product to end user. **Stealth Products** is not liable for user death or injury.

Parts & Accessories Included

- IDPMP-9
- 2 #10-32 x 3/8" Button Head Screws



Mounting Options

Stealth Products' Precision Mini Proportional Joystick (also referred to as IDPMP-9) housing with a 9-pin connector comes with two threaded holes for mounting. The following pictures feature the part numbers and mounts that are necessary for mounting the joystick.

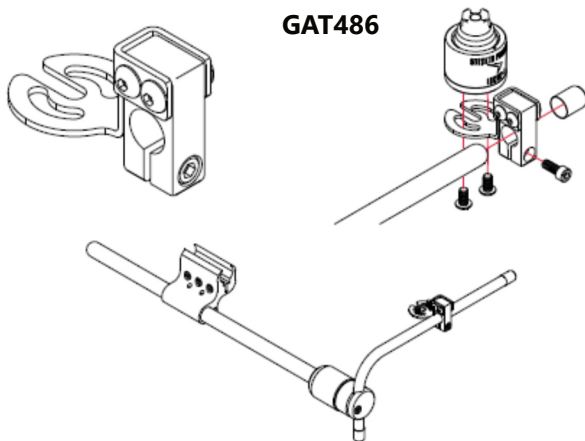
SM671



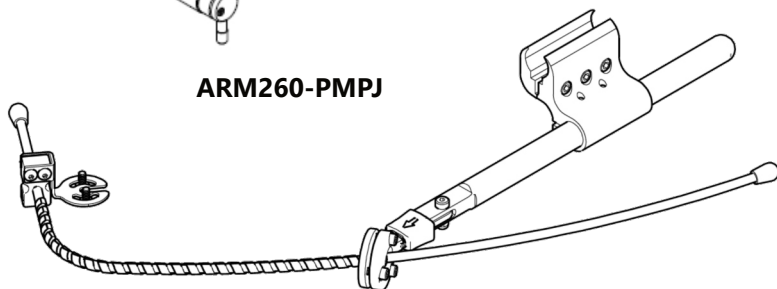
SM670 Swing Away Arm



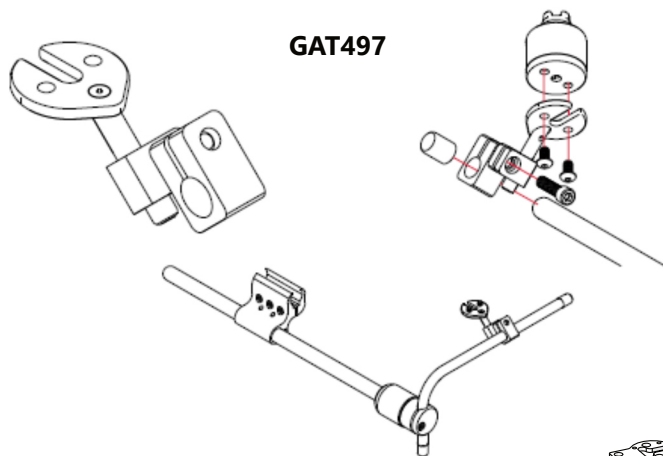
GAT486



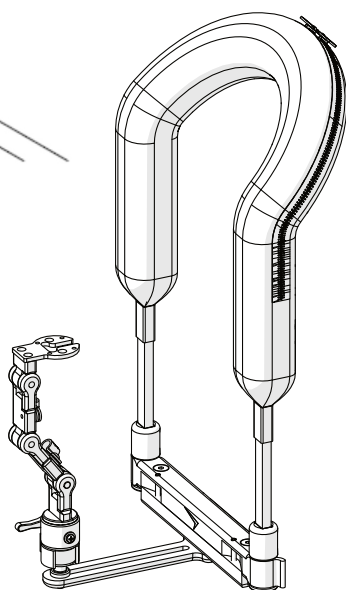
ARM260-PMPJ



GAT497



IDCH



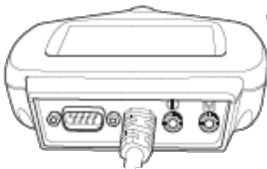
Connecting the Joystick

The IDPMP-9 plugs directly into the power chair's control interface using the supplied DB-9 connector. Depending on the type of interface, the location port varies.

9-pin Connector



Q-Logic Drive Control System



Q-Logic SCIM



R-Net Omni Specialty Control Interface



Joystick Operation

The IDPMP-9 gives the user ability to operate their wheelchair drive parameters with smooth and precise control in 360°.

NOTICE

Ensure the wheelchair and IDPMP-9 are correctly set up and adjusted to the user's needs.

CAUTION

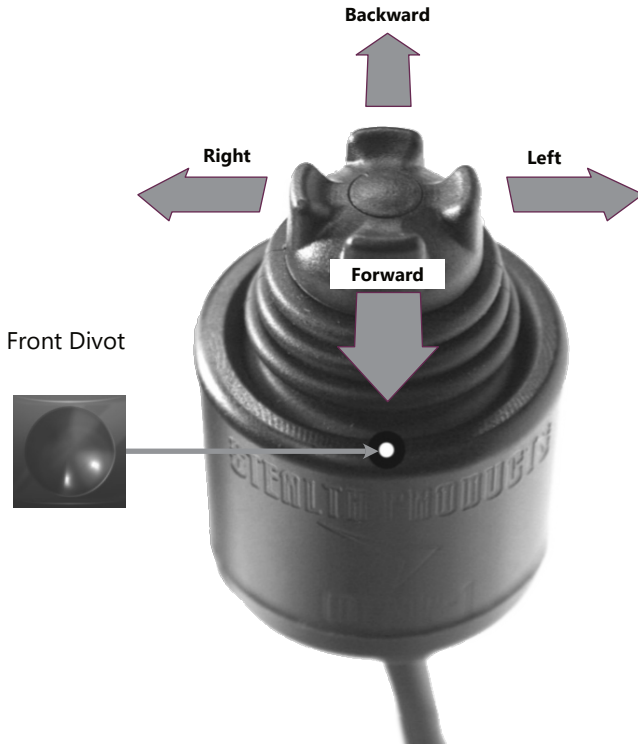
If the IDPMP-9 does not perform as specified, turn off the wheelchair and repeat setup or contact your supplier.

Joystick Setup

It is important to properly install the IDPMP-9 for the user. Take care during the assessment to identify the joystick placement and allow maximum user access and control. Do not position the joystick where the hand may be obstructed from moving in any direction.

Joystick Directions

The front divot represents the front of the joystick, or *Forward* as the factory setting.



System Setup

Q-Logic™ Setup

1. Plug in the Q-Logic™ Handheld Programmer to the Q-Logic™ Enhanced Display or to the standalone joystick if the SCIM (Specialty Control Input Module) is in use.
2. On the Q-Logic™ Programmer, navigate with the Left & Right buttons <> to Program Adjustments x Specialty Control x Active Device.
3. Toggle with the Plus & Minus buttons +/- from Active Devices to Proportional.
4. Unplug the Q-Logic™ Handheld Programmer and Turn Off the system.

Note: Q-Logic Enhanced Display and Q-Logic Handheld Programmer required

Q-Logic Programmer Setup

Q-Logic Programmer

Navigation

Arrows navigate the main menu. *Up & Down* to navigate the menus, *Right* to open a menu item and *Left* to return to previous menu.

Bookmark Buttons

Select *Options* in the main menu. Button actions are displayed on screen above corresponding buttons. In other menus hold button to bookmark settings, and press button to quickly go to bookmark.



Plus & Minus

Toggle settings or changes values of the highlighted parameter.

Help Button



Displays information about options selected on screen.

NOTE: Q-Logic™ Enhanced Display and Q-Logic™ Handheld Programmer required.

Q-Logic Installation

NOTICE

For new chairs that have never been programmed, a power cycle will be necessary after the joystick has been calibrated and before the joystick throw can be adjusted.

1. Plug in the Q-Logic™ Handheld Programmer (Previous Page) to the Q-Logic™ ED (Enhanced Display) or to the standalone Joystick if the SCIM (Specialty Control Input Module - Figure 3) is in use.
2. On the Q-Logic™ Programmer, navigate to *Program Adjustments* ▾ *Specialty Control* ▾ *Active Device*.
3. Toggle *Active Device* to *Proportional* with the *Plus & Minus*  &  buttons.
4. Unplug the Q-Logic™ Handheld Programmer and *Turn Off* the system. The chair should now be programmed to recognize the joystick. Be sure to re-engage the motors before operation.

NOTICE

If using Q-Logic™ Specialty Control Input Module (SCIM Figure 3), you will need any type of mechanical switch to plug into the power port of the standalone joystick to power ON/OFF the chair and ensure the SCIM as master control. Q-Logic™ Programmer required.

9-Pin Connector

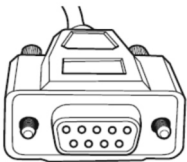


Figure 1

Q-Logic™ Drive Control System

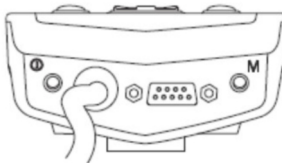


Figure 2

Q-Logic™ SCIM

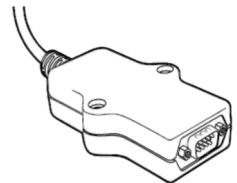






Figure 3







Q-Logic 2

Joystick Setup

1. Plug in the Q-Logic™ Handheld Programmer (Previous Page) to the Q-Logic™ ED (Enhanced Display) or to the standalone joystick if SCIM (Specialty Control Input Module - Figure 3) is in use.
2. On the Q-Logic™ Programmer, navigate to *Program Adjustments*  *Specialty Control*  *Proportional*  *Joystick Set Ups*  *Proportional*. Here you can fine-tune joystick performance and functionalities such as:
 - *Center and Axis Deadband*
 - *Tremor Suppression*
 - *Assign Direction*
 - *Joystick Calibration and Throw*
 - *Switch Operation*

Center Deadband

The *Center Deadband* parameter defines how far the joystick must be moved from neutral position to engage moving the power chair. The value corresponds to the diameter of a circle around the joystick center position. No drive or menu instruction will be executed unless the joystick is moved out of this circle.







- Select *m: Center Deadband* option with the navigation's *Up & Down* buttons  & , then press the *Right*  button.
- Use the *Plus & Minus*  &  buttons to adjust the *Center Deadband*. Adjustment ranges from 5 to 50%. Press *Left*  navigation button to save.

NOTICE

For new chairs that have never been programmed, a power cycle will be necessary after the joystick has been calibrated and before the joystick throw can be adjusted.

Axis Deadband

The *Axis Deadband* parameter defines how far the joystick has to move to be recognized. This can be helpful, if a toggle command has to be made.







- Select *m: Axis Deadband* option with the navigation's *Up & Down*  &  buttons, then press the *Right*  button.
- Use the *Plus & Minus*  &  buttons to adjust the *Axis Deadband*. Adjustment ranges from 5 to 50%. Press *Left*  navigation button to save.



Calibration must be done for the joystick. This is a new safety feature update included in the Q-Logic™ Programmers.

Tremor Suppression

Tremor Suppression sets a neutral range that suppresses possible tremors (trembling of hand or drive surface conditions) on the joystick. Setting from 0% to 100%.




1. Follow steps 1 and 2 from Joystick Setup, Page 10.
2. Select *m: Tremor Suppression* option with the navigation's *Up & Down* buttons  & , then press the *Right*  button.
3. Use the *Plus & Minus*  &  buttons to adjust the *Tremor Suppression*. To disable it, adjust the parameter to 0%.
4. When done, press the *Left*  navigation button to save and return to the menu.

NOTICE

When short command is used to operate the power chair, the Tremor Suppression should not be set over 90%, otherwise any short throw will be ignored.







Assign Direction Function

The *Assign Direction Function* allows you to set the axis direction. For example, if you want to change *Forward* (X axis 0 to 100) to *Reverse* (X axis 0 to -100) or *Left* (Y axis 0 to -100) to *Right* (Y axis 0 to 100). If you switch *Forward* to *Reverse*, the system will automatically change *Reverse* to *Forward*. Same with *Left* and *Right*. Parameters are measured by percent (%).

1. Follow steps 1 and 2 from Joystick Setup, Page 10.
2. Select *Assign Direction* option with the navigation's *Up & Down* buttons  & , then press the *Right*  button.
3. Follow on-screen instructions. When done, press *Ok* to save.

Switch Operations

The *Switch Operations* parameter sets the joystick to operate like a switch input making it not proportional. When the joystick is moved out of neutral, more than 50% of the operating range, it will activate full throttle (100%) corresponding to the desired direction. *Switch Operations* can be set ON or OFF.




1. Follow steps 1 and 2 from Joystick Setup, Page 10.
2. Select *m: Switch Operations* with the navigation's *Up & Down*  &  buttons, then press the *Right*  button and follow screen instructions.
3. Use the *Plus & Minus*  &  buttons to toggle ON/OFF.
4. When done, press the *Left*  button to save and return to the menu.

Joystick Calibration

Calibrating your joystick will set the range of motion for the axes or re-center it to improve operation.






CAUTION

Calibration **MUST** be done for the joystick. This is a new safety feature update included in the Q-Logic™ Programmers.

1. Follow steps 1 and 2 from Joystick Setup, Page 10.
2. Select *Calibrate* option with the navigation's *Up & Down*  &  buttons, then press the *Right*  button.
3. Programmer will prompt for a calibration of the joystick. Follow directions and move the joystick around in two circles.
4. Calibration will be complete. Press OK to save, exit the screen and power cycle the chair.





Joystick Throw

The *Throw* is the place where the joystick is stopped in a particular direction. Throw distance is the maximum distance/angle the shaft can be moved in a particular direction. The throw should be set to the maximum distance/force of which the individual using it is capable.





1. After the power cycle from Joystick Calibration is complete, follow steps 1 and 2 from Joystick Setup, Page 10.
2. Select *Throw* with the navigation's *Up & Down*  &  buttons, then press the *Right*  button.
3. This setting will turn the power chair's system to *IDLE MODE*, press OK if prompted. Then follow on-screen instructions
4. Have the user deflect the joystick with their maximum force. Adjust the parameters by pressing the *Plus & Minus*  &  buttons.
5. When done you will be prompted to save the new configuration. Press *Yes* to save.

Q-Logic 3



Joystick Setup

1. Plug the Q-Logic Handheld Programmer into the back of the display.
2. On the Programmer, select *Program Adjustments*.
3. In the *Program Adjustments* menu, select *Enhanced Display*.
4. In the *Enhanced Display* folder,  select *Input Configuration*.
5. With the *Plus & Minus*  &  buttons, select *Proportional*.
6. Use the *Left*  navigation button to return to the *Main Menu* and save.



Joystick Calibration

1. Plug the Q-Logic™ handheld programmer into the back of the display.
2. On the programmer, select *Program Adjustments*.
3. In the *Program Adjustments* menu, select *Enhanced Display*.
4. In the *Enhanced Display* menu, with the *Up and Down*  &  buttons, select *Proportional Input*.
5. With the *Right* navigation button , select *Proportional Calibration*. The programmer will read, 'Roll the joystick in two full circles.' Select OK and verify that calibration was successful.
6. With the *Left* button, , select back until you exit completely. Unplug the programmer and power cycle the chair.






Joystick Throw

1. Plug the Q-Logic™ handheld programmer into the back of the display.
2. On the programmer, select *Program Adjustments*.
3. In the *Program Adjustments* menu, select *Enhanced Display*.
4. In the *Enhanced Display* menu, with the *Up & Down*  &  buttons, select *Proportional Input*.
5. In the *Proportional Input* menu, select *Proportional Throw*. Follow the prompts on the programmer.






Assign Direction

1. Plug the Q-Logic™ handheld programmer into the back of the display.
2. On the programmer, select *Program Adjustments*.
3. In the *Program Adjustments* menu, select *Enhanced Display*.
4. In the *Enhanced Display* menu, with the *Up & Down*  &  buttons, select *Proportional Input*.
5. In the *Proportional Input* menu, select *Proportional Assign Directions*. Follow the prompts on the programmer.






Center Deadband

1. Plug the Q-Logic™ handheld programmer into the back of the display.
2. On the programmer, select *Program Adjustments*.
3. In the *Program Adjustments* menu, select *Enhanced Display*.
4. In the *Enhanced Display* menu, with the *Up and Down*  &  buttons, select *Proportional Input*.
5. In the *Proportional Input* menu, select *Center Deadband*. With the *Plus & Minus*  &  buttons, adjust the *Center Deadband* value.
6. Use the *Left*  button, to exit the menu.

Tremor Suppression

1. Plug the Q-Logic™ handheld programmer into the back of the display.
2. On the programmer, select *Program Adjustments*.
3. In the *Program Adjustments* menu, select *Enhanced Display*.
4. In the *Enhanced Display* menu, with the *Up & Down*  &  buttons, select *Proportional Input*.
5. In the *Proportional Input* menu, select *Tremor Suppression*. With the *Plus & Minus*  &  buttons, adjust the *Tremor Suppression* value.
6. Use the *Left*  button, to exit the menu.

Switch Operation

1. Plug the Q-Logic™ handheld programmer into the back of the display.
2. On the programmer, select *Program Adjustments*.
3. In the *Program Adjustments* menu, select *Enhanced Display*.
4. In the *Enhanced Display* menu, with the *Up & Down*  &  buttons, select *Input Configuration*.
5. With the *Plus & Minus*  &  buttons, select *Proportional Switch Op*. Use the *Left*  button to exit the menu when selections have been made.

R-Net™ Omni Setup

LCD Screen

Full Color, Backlit.
Displays Omni2
Configuration details
and operating information.

On/Off Button

Power up and
power down the
control system
electronics.

Settings Button

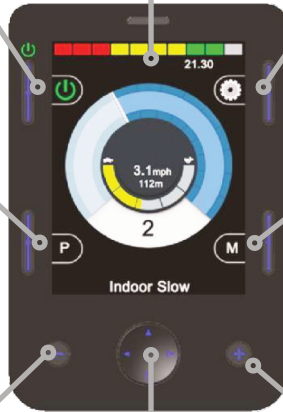
Launches the
Settings Menu
screen.

Profile Button

Allows the installer to
switch between
available Drive Profiles.

Mode Button

Allows the installer to
switch between the
available modes.



"-" Button

Makes Adjustments to
speed and highlighted
OBP parameters.

"+" Button

Makes Adjustments to
speed and highlighted
OBP parameters.

Navigation Buttons

Four navigation buttons
allow the user to choose
menu items on the OBP
and User Menu.



R-Net Programming Dongle

R-Net™ Proportional Joystick Setup

1. Plug in the R-Net™ Programming Dongle in line with the Omni Display and chair's electronics, then power on the chair.
2. Press the Mode button until you reach the OBP (On-board Programming) menu. The OBP menu will appear as an hourglass while loading.
3. With the navigation buttons, navigate to Controls > Joystick. Here you can fine tune joystick performance and functionalities, such as
 - Active Throw Details
 - Active Orientation and Orientation Details
 - Deadband

Throw

The throw is the place where the joystick gets stopped in a particular direction. Throw distance is the maximum distance/angle the shaft can be moved in a particular direction. The throw should be set to the maximum distance/force the individual utilizing it is capable of.

Active Throw

1. Follow the first three steps of R-Net Proportional Joystick Setup, above.
2. Use the navigation's *Up & Down* buttons, ^ select *Active Throw* from the list and press the *Right* button > again to set up.
3. The system will guide you through the setup. Follow the on-screen instructions, have the user move the joystick towards the defined direction with maximum possible force. Press the *Plus* + button to save and proceed to the next step. Values range from 25% to 100%.

Throw Details

Throw Details will allow you to see all *Active Throw* setups for all profiles. To select profiles, use the navigation buttons (*Left* and *Right*) <> and select axis using (*Up* or *Down*). ^ The selected axis/profile can be adjusted in increments of 1 or 10 using the *Plus* or *Minus* buttons +/- . For increments of 10, press and hold the *Plus* or *Minus* button +/- . Values range from 25% to 100%.

Axis Orientation

The Axis Orientation allows you to switch the axis behavior. For example, the X-axis (*Forward/Reverse*) can be switched making the *Forward* direction *Reverse* and vice versa.

Active Orientation

1. Follow the first three steps of R-Net™ Proportional Joystick Setup, previous page.
2. Using the navigation's *Up & Down* buttons, ^ select *Active Direction* from the list and press the *Right* button. > Then press *Plus +* for *Port 1* or *Minus -* for *Port 2* to select the port to set up.
3. The system will prompt you to set the *Forward* (X-axis) by angling the joystick. Automatically, *Reverse* will be set to the direction opposite the one selected. Values available: N (*North/Forward*), W (*West/Left*), S (*South/Reverse*), or E (*East/Right*).
4. Next you will be prompted to set the *Left* (Y-axis) by angling the joystick. Automatically, *Right* will be set to the direction opposite the one selected. Values are the same as Step 3. Power cycle the chair.

Orientation Details

Orientation Details is similar to *Throw Details*, but it sets the direction of proportional controllers listed in each profile. Values are set as *Yes/No* to *Invert Forward/Reverse* (InvFR) or *Left/Right* (InvLR). To swap axes, change the value on the *SWAP* row, either *Yes/No*. Power cycle the chair when finished.

Center Deadband

The *Center Deadband* parameter defines how far the joystick must be moved from neutral position to engage motors of the power chair. The value corresponds to the diameter of a circle around the joystick center position. No drive or menu instructions will be executed unless the joystick is moved out of this circle.

1. Follow the first three steps of R-Net™ Proportional Joystick Setup, previous page.
2. Use the navigation's *Up & Down* buttons, ^ select *Deadband* from the list and press the *Right* button. >
3. Use the *Left/Right* buttons <> to select the port. When in the desired position, press *Plus* or *Minus* buttons +/- to increase or decrease the value. Values range from 10% to 50%.

Testing

After installation of the IDPMP-9 joystick, execute the following tests before the wheelchair is delivered or put into service, in this order:

- Check the IDPMP-9 for intactness
- Operational Test
- Test Drive
- Stop Test

Check that the IDPMP-9

- Is not bent or damaged.
- Does not have damage to the housing, cabling, or all connectors.
- Returns to its default position when moving and releasing the joystick forward, backward, left, and right.

Operational Test



WARNING

Execute this test only on a level surface, in an open area free of obstacles.

1. Activate the wheelchair operating system.
2. Check for any error messages.
3. Move the joystick slowly forward until you hear the parking brake switch off.
4. Immediately release the joystick. You should hear the parking brake react within a few seconds.
5. Repeat steps 3 and 4 three times, while slowly moving the joystick towards you, to the left and to the right.



CAUTION

The wheelchair may start moving.

Test Drive

- Perform a test drive with the wheelchair.
- Check whether the wheelchair and all of its operations are fully functioning in all positions in which the user may have it configured.
- Check that no cabling or parts may become damaged or hindered in any possible position of the wheelchair.

Stop Test

- Drive full speed ahead and shut down the wheelchair with the joystick.
- The wheelchair may not suddenly stop, but must slow down to a gradual stop.

Water Contact

- Turn off the chair and disconnect the IDPMP-9 from the power chair.
- Thoroughly dry IDPMP-9 with a towel.
- Allow the joystick to dry for 12 hours in a warm, dry area to allow for unseen moisture to evaporate
- Check that the IDPMP-9 operates to specification before use.

Electromagnetic Interference (EMI)

The IDPMP-9 has been tested to a radiation immunity level of 20 volts per meter.

Electronics may be susceptible to EMI. EMI is the interfering energy emitted from sources such as radio stations, TV stations, radio transmitters, and cellular phones. The interference from radio waves may cause malfunctions and equipment damage.

Dealer Assistance

During first time use by the client, it is advised that the dealer or service technician assists and explains the different drive configurations to the customer (the user and/or the attendant). If needed, the dealer can make final adjustments.

User Testing

It is important that the customer is fully aware of the installation, how to use it, and what can be adjusted in order to gain as much mobility as possible. As a dealer, proceed as follows:

- Explain and show the customer how you have executed the installation.
- Explain the function of the joystick.

Have the user test all positions of the IDPMP-9

- Is the IDPMP-9 within easy reach?
- Can the user safely operate the wheelchair with minimal effort?
- Is the placement of the joystick in an optimal position for the user?

Conditions of Use

The IDPMP-9 is intended for use as installed by the dealer, in accordance to the installation instructions in this manual.

- The foreseen conditions of use are communicated by the dealer or service technician to the user and/or attendant during the first time use.
- If the conditions of use change significantly, please contact your dealer or a qualified service technician to avoid excessive wear and tear or unintended damage.

Daily Maintenance Check

- Ensure all cords are properly connected and secured and show no signs of damage or wear.
- Ensure that the joystick rubber boot is free of cracks and tears.
- Move the joystick through the four quadrants, checking for smooth movement and its return to the centered position.
- Ensure all switches are functioning as programmed.

Weekly Maintenance Check

- Check all fasteners and tighten as necessary
- Clean all surfaces and disinfect when necessary
- Check that the mechanical condition, as well as the functions, are operating properly. If not, contact your supplier for immediate repairs.

Environment Safety

- Always operate or store the IDPMP-9 in safe temperature of -40° to +149°F (-40°C to +65°C).
- Do not operate or leave the IDPMP-9 in rain, snow, sleet, hail, or damp environment.
- Do not expose the IDPMP-9 to water, condensation, icing, or dampness.
- Do not operate in the shower.
- Do not operate or store near open flame, flammable or combustible products.

Cleaning

- Positioning accessories can be wiped clean with a damp cloth and mild, non-abrasive cleaner.
- Ensure all cleaners are approved for finished steel, aluminum, plastic, and upholstered surfaces.

Disinfecting

- When needed, surfaces can be wiped with an approved disinfecting product.
- Ensure the disinfectant is approved for finished steel, aluminum, plastic, and upholstered surfaces.



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Warranty Information



Home Page



Online User Manual



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