



# Handrim, Wheel, & Tire

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Owner's Manual

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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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<table border="1"><tr><td><b>EC</b></td><td><b>REP</b></td></tr></table> <p><b>MDSS GmbH</b> Schiffgraben 41 30175 Hannover Germany</p>	<b>EC</b>	<b>REP</b>	<table border="1"><tr><td><b>CH</b></td><td><b>REP</b></td></tr></table> <p><b>SODIMED SA</b> Chemin Praz Devant 12 1032 Romanel sur-Lausanne Switzerland</p>	<b>CH</b>	<b>REP</b>	<p>UK Authorized Representative</p> <p><b>MDSS-UK RP</b> 6 Wilmslow Road, Rusholme Manchester M14 5TP United Kingdom</p>
<b>EC</b>	<b>REP</b>					
<b>CH</b>	<b>REP</b>					

## 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 dealer, 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://www.stlpro.site/stealth-docs>) and searching "P116D629" in the search bar at the top of the page.

## Supplier Reference

<b>Supplier:</b>	
<b>Telephone:</b>	
<b>Address:</b>	
<b>Purchase Date:</b>	
<b>Model:</b>	

## 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.

## Testing

Initial setup and driving should be done in an open area free of obstacles until the user is fully capable of driving safely.

## Intended Use

Stealth Products wheelchair accessories include handrims, wheels, and tires. These provide the user with upper limb mobility the ability to propel and maneuver the wheelchair.

## Wheel

Wheelchair rear wheels consist of the tire, rim (and handrim on manual chairs), spokes (or mags), and a hub. The hub is the center of the wheel, the spokes (or mags) connect the rim to the hub, and the rim is where the tire is mounted.

## Handrim

The handrim is the outer circular component of the maneuvering wheel intended to give a user with upper limb mobility the ability to propel and maneuver a manual wheelchair..

## Tire

We offer solid tires that provide the best shock absorption and flat-free ride possible, with traction that rivals pneumatic tires. Non-marking tread ensures minimal floor damage. Tires are delivered unmounted from the wheel and will appear too small to fit when received. Tires will need to be stretched prior to installation.

## Product Feature Overview

### Wheels

We offer Fusion 16 wheels that are a perfect combination of performance, durability, and style for everyday chairs.

#### NOTICE

All Fusion16 wheels are sold without tires or handrims.

#### Available in (black or silver hub):

**Size: Fusion16: Everyday**

24"

25"

26"



**Fusion16: DB Series**

#### Wheel Specifications

- Weight ~ 811 grams (559g wheel w/out handrim and tire).
- 0.5" sealed cartridge bearings.
- 1.87" bearing spacing.
- Silver hub finish.
- Standard six-tab push-rim compatibility.
- The 16-spoke lacing pattern provides open access and functionality.
- Eight radial-laced spokes increase side load integrity with camber.
- Eight cross-laced spokes increase wheel rotation integrity (stiffness).
- 12-gauge spokes allow reduced spoke count and weight with increased strength.
- Double-walled black anodized rim – Optimized for weight and strength.

#### Wheel Specifications

- F16 Everyday ~ 811 grams / 28.61 oz. / 1.78 lbs.
- F16 DB Series ~ 793 grams / 28 oz. / 1.75 lbs.
- Spinergy Spox (18 spokes) ~ 751 grams / 26.5 oz. / 1.65 lbs.
- Spinergy Spox LX (12 spokes) ~ 672 grams / 23.7 oz. / 1.5 lbs.

## Handrims

### NOTICE

Before use, it is important that you check the handrims for any damage. Always keep both hands on the handrim as you go over an obstacle.

Standard six tab anodized aluminum.

Handrims are used for propelling the manual wheelchair using the hands and upper body. Available in three sizes.

Part Number	Size
HR24M	24"
HR25M	25"
HR26M	26"



## Tires

We offer high pressure solid tires in three different sizes that are ideal for everyday use and can be used on a variety of surfaces and terrain.

Part Number	Size
T24SHOXB	24"
T25SHOXB	25"
T26SHOXB	26"



SHOX Solid Wheelchair Tires are 110 psi equivalent.



### WARNING

Replacement of solid tires requires specialized equipment. If your solid tires need replacement, you must have this done by an authorized dealer or qualified technician. If you ignore this warning, you may seriously injure yourself or others, or damage the wheelchair.



## Wheels

### Direct Mount Wheels



1. To remove the direct mount wheel(s), unscrew the lock nut (3/4-16 LLN or 1/2" LN) with an adjustable wrench.
2. To install a new wheel, screw on the lock nut (3/4-16 LLN or 1/2" LN).

### Quick Release Axle Pin for Wheels

(A quick release wheelchair wheel axle allows for fast and easy removal of 1/2" diameter quick release wheelchair axle pins.



1. To remove the axle pin, push in the quick release wheelchair axle pin head (ADI logo) and then pull the pin out towards your body to remove.
2. To install a new wheel, place wheel hub into axle and install the quick release axle pin into the hub until you hear a clicking sound. Note: if the axle pin doesn't click, rotate the pin until it clicks. If it still doesn't click you need to loosen the nut on the axle pin.

## Handrim

### 1. Tools and Hardware Needed

- Phillips #2 screwdriver
- 3/8" Combination wrench
- (6) - 10/32 thread, 7/16" long
- (6) - 10/32 thin nylon-insert lock nut



### 2. Remove the old Handrim

Remove the screws that mount the handrim to the wheel using the Phillips screwdriver.

### 2. Install the new Handrim

If needed, bend the tabs slowly in to line up to the wheel holes.



Ensure that the handrim is being installed on the outside of the wheel (the side where the wheel push-pin is located).

Install the screw on the outside of the wheel and the lock nut on the inside of the wheel, tightening the screws in a criss-cross pattern.

## Dealer Assistance

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



### **DANGER**

Failure to comply with these warnings could result in serious bodily harm.

## 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, and explain the function of every item.

Have the user test the wheel, tire and/or handrim:

- Is the hardware in the proper position for the client?
- Can the user safely operate the wheelchair with minimal effort?
- Is the placement in an optimal position for the user?

If needed, adjust the wheel, tire and/or handrim to the proper position.

Explain possible problems to the customer and address solutions to those problems.

## Conditions of Use

The wheels, tires and handrims are intended for use as installed by the dealer, in accordance with the installation instructions contained in this manual.

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

## Maintenance



### WARNING

After making any adjustments or repairs to your wheelchair and after any servicing of your wheelchair, always make sure all attachment hardware is tightened securely before using the chair. If you ignore this warning, you may fall, tip over, or lose control of your wheelchair and seriously injure yourself or others or damage the wheelchair.

If any of the following conditions are found, please contact your dealer.

### Inspect Rear Wheels - Weekly

- Inspect for cracked, bent, or broken spokes
- Make sure all spokes are uniformly tight
- Inspect hubs and rims for cracks and wear
- Inspect for “trueness” (excessive side movement when wheel is lifted and spun indicates lack of “trueness”.)

### Inspect Handrim - Monthly

- Inspect for signs of rough edges or peeling
- Make sure handrims are securely attached to the rim

### Inspect Tires - Weekly

- Inspect for cracks, wear, and flat spots.

### NOTICE

**Do not** use WD-40®, 3-in-1 Oil®, or other penetrating lubricants on quick release or quad release axles. Instead, **ALWAYS** use either a dry Teflon®-based lubricant or a dry silicone spray as a lubricant.



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**Warranty Information**



**Home Page**



**Online User Manual**



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