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AlveyTech 7000M713

AlveyTech 84" Drive Shaft Assembly User Manual

Model: 7000M713

Introduction

This manual provides essential information for the installation, operation, and maintenance of your AlveyTech 84" Drive Shaft Assembly. This component is designed as a direct replacement part for various Invacare IVC Series Homecare Beds, ensuring proper functionality and longevity of your medical bed system.

The AlveyTech 84" Drive Shaft Assembly is engineered for durability and compatibility, serving as a crucial link in the bed's adjustment mechanism. Please read all instructions carefully before proceeding with installation or maintenance.



Figure 1: The AlveyTech 84" Drive Shaft Assembly, showing its full length and connection points. This assembly is a critical component for the mechanical operation of compatible homecare beds.

Compatibility

The AlveyTech 84" Drive Shaft Assembly (Model: 7000M713) is specifically designed to be compatible with the following Invacare

IVC Series Homecare Bed models:

- Invacare BAR600 Bariatric Homecare Bed (BAR600IVC)
- Invacare Full-Electric Homecare Bed (5410IVC)
- Invacare Manual Homecare Bed (5307IVC)
- Invacare Semi-Electric Homecare Bed (5310IVC)

This drive shaft assembly is suitable for full-electric, semi-electric, and manual versions of these Invacare beds. Ensure your bed model matches one of the listed compatible models before attempting installation.

Setup and Installation

Safety First: Before beginning any installation, ensure the bed is unplugged from its power source (for electric/semi-electric models) and secured to prevent accidental movement. It is recommended to have a second person assist with the installation for safety and ease.
Tools Required: Basic hand tools such as wrenches, screwdrivers, and possibly pliers may be needed depending on your specific bed model's existing hardware.

1. **Prepare the Bed:** Carefully raise the bed to a comfortable working height if possible, or position it to allow easy access to the underside where the drive shaft is located.
2. **Locate Existing Drive Shaft:** Identify the current drive shaft assembly. Note how it connects to the bed's motor (if applicable) and the various adjustment mechanisms.
3. **Remove Old Assembly:** Disconnect any fasteners or clips holding the old drive shaft in place. Carefully remove the old assembly, paying attention to its orientation and how it was seated.
4. **Install New Assembly:** Position the AlveyTech 84" Drive Shaft Assembly in the same orientation as the one removed. Ensure the ends align correctly with the motor and bed frame connection points.
5. **Secure the Assembly:** Reattach all fasteners and clips, ensuring they are tightened securely but not overtightened. Verify that the drive shaft is firmly seated and does not wobble.
6. **Test Functionality:** Once installed, carefully plug in the bed (if electric) and test all bed functions (head, foot, and overall height adjustments) to ensure the new drive shaft operates smoothly and correctly.



Figure 2: A closer view of the AlveyTech 84" Drive Shaft Assembly, highlighting its robust construction and connection features. Proper alignment during installation is crucial for optimal performance.

Note: Minor surface scratches may be present on the product from manufacturing and handling. These are cosmetic and do not affect the functionality or performance of the drive shaft assembly.

Operating Principles

The drive shaft assembly is a mechanical component that transmits rotational motion and torque from the bed's motor (in electric and semi-electric models) or manual crank mechanism to the various lifting and lowering components of the bed frame. It is responsible for enabling the smooth adjustment of the head, foot, and overall height sections of the homecare bed.

- **Electric/Semi-Electric Beds:** In these models, the drive shaft connects directly or indirectly to the bed's electric motor(s). When the user activates a control (e.g., remote control), the motor rotates the drive shaft, which in turn moves the bed sections.
- **Manual Beds:** For manual beds, the drive shaft is connected to a hand crank. Turning the crank manually rotates the drive shaft, allowing for adjustments to the bed's position.

Proper functioning of the drive shaft ensures that the bed's adjustments are smooth, quiet, and reliable, providing comfort and safety for the user.

Maintenance

Regular maintenance helps prolong the life of your drive shaft assembly and ensures the continued smooth operation of your homecare bed.

- **Visual Inspection:** Periodically inspect the drive shaft for any signs of wear, bending, corrosion, or damage. Check the connection points for looseness.
- **Cleaning:** Keep the drive shaft and surrounding areas free from dust, debris, and lint. Use a dry cloth or a soft brush for

cleaning. Avoid using harsh chemicals or abrasive cleaners.

- **Lubrication:** While the drive shaft itself typically does not require lubrication, ensure that any associated gears or moving parts within the bed mechanism are lubricated according to the bed manufacturer's recommendations.
- **Tightness Check:** Annually, or if you notice any unusual noises or movements, check all fasteners securing the drive shaft to ensure they are tight.

If you observe any significant damage or excessive wear, the drive shaft assembly may need to be replaced to maintain safe and proper bed operation.

Troubleshooting

If you experience issues with your bed's adjustment mechanism after installing the drive shaft, refer to the table below for common problems and potential solutions.

Problem	Possible Cause	Solution
Bed adjustments are stiff or jerky.	Misalignment of drive shaft; lack of lubrication in associated gears; obstruction.	Check drive shaft alignment. Lubricate bed's moving parts as per bed manual. Inspect for obstructions.
Bed does not adjust at all (electric/semi-electric).	Drive shaft not properly connected to motor; motor issue; power issue.	Ensure drive shaft is securely connected. Check bed's power supply and motor functionality.
Unusual noises (grinding, squeaking) during adjustment.	Loose fasteners; worn gears (not drive shaft itself); foreign object.	Tighten all fasteners. Inspect bed's gears for wear. Remove any foreign objects.
Drive shaft appears bent or damaged.	Impact damage; excessive force during operation.	Replace the drive shaft assembly immediately. Do not attempt to straighten a bent shaft.

If troubleshooting steps do not resolve the issue, please contact AlveyTech customer support or a qualified technician.

Specifications

Attribute	Detail
Product Name	84" Drive Shaft Assembly
Brand	AlveyTech
Model Number	7000M713
Product Dimensions	48 x 2 x 1 inches (packaged); 84 inches (assembled length)
Weight	4.3 Pounds
ASIN	B0D15Y4Z7J
Country of Origin	China
Compatibility	Invacare IVC Series Homecare Beds (BAR600IVC, 5410IVC, 5307IVC, 5310IVC)

Warranty and Support

AlveyTech stands behind the quality of its products. While specific warranty details are not provided in this manual, please refer to the product packaging or the official AlveyTech website for the most current warranty information.
For technical support, replacement parts, or any inquiries regarding your AlveyTech 84" Drive Shaft Assembly, please contact

AlveyTech customer service. You can find contact information and additional resources by visiting the official AlveyTech store on Amazon or their corporate website:

Visit the AlveyTech Amazon Store

When contacting support, please have your product model number (7000M713) and ASIN (B0D15Y4Z7J) ready to assist with faster service.

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