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› POWERTEC 8 Inch Caster Wheels Set (Model 17055V) Instruction Manual

POWERTEC 17055V

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1. PRODUCT OVERVIEW

The POWERTEC 8 Inch Caster Wheels Set (Model 17055V) provides a robust and versatile solution for mobilizing various equipment. This set includes two swivel casters and two fixed casters, designed for heavy-duty applications. The wheels feature a solid rubber construction with a knobby tread, ensuring reliable performance across multiple surfaces.

Key Features:

- **Set Composition:** Includes two (2) swivel all-terrain caster wheels and two (2) fixed all-terrain caster wheels.
- **Wheel Design:** 8-inch diameter solid molded rubber wheel with knobby tread on a red-rimmed steel hub.
- **Swivel Action:** High-performance swivel mechanism allows for 360-degree pivoting, equipped with a grease fitting for maintenance.
- **Heavy Duty Construction:** Features a premium steel caster yoke and pre-drilled plate mount, with precision ball bearings for proper weight distribution and durability.
- **Load Capacity:** Each wheel has an impressive weight capacity of 518 lbs (234.96 kg).
- **Versatility:** Suitable for a wide range of indoor and outdoor applications such as workbenches, dollies, carts, trolleys, wagons, and chicken coops.

Note: Installation hardware is not included with this set.

2. SETUP AND INSTALLATION

Proper installation is crucial for the safe and effective operation of your POWERTEC caster wheels.

2.1 Required Tools and Materials (Not Included):

- Appropriate mounting hardware (bolts, nuts, washers) suitable for your application and the caster plate dimensions.
- Drill and drill bits (if pre-drilling is required).

- Wrenches or sockets for tightening hardware.
- Measuring tape or ruler.
- Marking tool (pencil, marker).

2.2 Installation Steps:

1. **Determine Placement:** Identify the optimal locations on your workbench, dolly, cart, or other equipment for mounting the casters. Ensure even weight distribution. Typically, swivel casters are placed at the front or corners for maneuverability, and fixed casters at the rear for directional stability.
2. **Mark Mounting Holes:** Position each caster plate on the desired mounting surface. Use a marking tool to accurately mark the locations for the mounting holes through the pre-drilled holes on the caster plate.
3. **Drill Pilot Holes (if necessary):** If your mounting surface requires it, drill pilot holes at the marked locations. Ensure the drill bit size is appropriate for your chosen mounting hardware.
4. **Secure Casters:** Align the caster plate with the drilled holes. Insert your chosen mounting hardware (e.g., bolts) through the caster plate and the mounting surface. Secure tightly with nuts and washers. Ensure all hardware is fully tightened to prevent wobbling or detachment during use.
5. **Verify Stability:** After installing all casters, gently test the stability of the equipment before applying full load. Ensure all wheels are securely attached and move freely.

Dimension



Figure 1: Swivel Caster Dimensions. This image illustrates the detailed measurements of the swivel caster wheel and its mounting plate, including plate size, hole spacing, wheel diameter, and overall height.

Dimension



Figure 2: Fixed Caster Dimensions. This image provides detailed measurements for the fixed caster wheel and its mounting plate, showing plate size, hole spacing, wheel diameter, and overall height.

3. OPERATING INSTRUCTIONS

The POWERTEC caster wheels are designed for smooth and efficient movement of heavy objects.

3.1 Moving Equipment:

- Ensure the load on the equipment does not exceed the combined weight capacity of the casters. Each wheel supports up to 518 lbs (234.96 kg).
- For optimal maneuverability, utilize the swivel casters for steering and turning. The 360-degree rotation allows for easy navigation in tight spaces.
- The knobby tread rubber wheels are designed to roll smoothly over various surfaces, including uneven terrain.
- Push or pull the equipment steadily. Avoid sudden jerks or excessive force, especially when starting movement or changing direction.

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Figure 3: Swivel Caster Features. This image emphasizes the swivel caster's load capacity, 360-degree rotation capability, and quiet, smooth performance.

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Figure 4: Fixed Caster Features. This image highlights the fixed caster's load capacity and its smooth, quiet operation, providing directional stability.



Workbench



Dollies

APPLICATIONS



Cart



Chicken Coop

Figure 5: Caster Wheel Applications. This image displays several common uses for the caster wheels, such as on workbenches, dollies, utility carts, and chicken coops, demonstrating their versatility.

3.2 Video Demonstration:

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Video 1: Caster Wheel Operation. This video demonstrates the smooth movement and maneuverability of the caster wheels when used on a dolly, showcasing their high load-bearing capacity and ease of use.

4. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your caster wheels.

4.1 Cleaning:

- Periodically inspect the wheels for debris such as string, hair, or other obstructions that may hinder movement. Remove any obstructions carefully.
- Clean the wheels and caster housing with a damp cloth. Avoid harsh chemicals that may damage the rubber or metal components.

4.2 Lubrication:

- The swivel casters are equipped with a grease fitting. For smooth 360-degree pivoting, it is recommended to lubricate the swivel mechanism periodically using a grease gun.
- Apply a small amount of general-purpose grease to the fitting until resistance is felt or a small amount of grease appears around the swivel bearing.
- Lubrication helps minimize friction and ensures quiet operation.



Figure 6: Precision Double Ball Bearings. This image highlights the precision double ball bearings within the caster, which are designed to minimize friction and ensure smoother rolling.

5. TROUBLESHOOTING

If you encounter issues with your caster wheels, refer to the following common problems and solutions:

- **Caster not swiveling smoothly:**
 - Check for debris or obstructions around the swivel mechanism. Clean if necessary.

- Apply grease to the grease fitting on the swivel caster using a grease gun. Lack of lubrication can cause stiffness.
- **Wheel not rolling freely:**
 - Inspect the wheel for embedded debris or damage to the rubber tread.
 - Ensure the axle bolt is not overtightened, which can restrict wheel rotation.
 - Verify that the mounting hardware is not interfering with the wheel's movement.
- **Equipment wobbles or is unstable:**
 - Check all mounting hardware to ensure it is securely tightened. Loose bolts can cause instability.
 - Confirm that the casters are installed on a flat, stable surface of the equipment.
 - Ensure the total load does not exceed the combined capacity of the casters. Overloading can lead to structural failure or instability.
- **Caster appears damaged (e.g., bent rim):**
 - This may indicate that the caster has been subjected to loads exceeding its capacity or has experienced impact damage.
 - Immediately replace any damaged casters to prevent accidents or further damage to your equipment.

6. SPECIFICATIONS

Feature	Detail
Brand	POWERTEC
Model Number	17055V
Wheel Diameter	8 inches (20.32 cm)
Wheel Width	2.3 inches (5.84 cm)
Material	Rubber, Steel
Caster Type	2 Swivel, 2 Fixed
Load Capacity (per wheel)	518 lbs (234.96 kg)
Mounting Type	Plate Mount
Plate Dimensions	4-9/16" x 3-15/16" (approx. 11.59 cm x 10.00 cm)
Mounting Hole Spacing (Center to Center)	3-3/8" x 2-7/8" (approx. 8.57 cm x 7.30 cm)
Overall Height	9-13/32" (approx. 23.90 cm)
Surface Recommendation	Multi-Surface
Included Components	(4) All-Terrain Caster Wheels (2 Swivel, 2 Fixed)
Country of Origin	China

7. WARRANTY INFORMATION

Specific warranty details for the POWERTEC 8 Inch Caster Wheels Set (Model 17055V) are not provided in this manual. For information regarding product warranty, please refer to the official POWERTEC website or contact their customer support directly. Keep your purchase receipt as proof of purchase.

8. CUSTOMER SUPPORT

If you have any questions, require assistance with installation, or need further support for your POWERTEC 8 Inch Caster Wheels Set, please visit the official POWERTEC website for contact information or consult the retailer where the product was purchased.