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> CasterHQ Hamilton Cush-N-Aire S-7008-PRB Rigid Caster Instruction Manual

CasterHQ HD-S-7008-PRB

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1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of your CasterHQ Hamilton Cush-N-Aire S-7008-PRB Rigid Caster. Please read these instructions thoroughly before use to ensure proper function and longevity of the product.

2. SAFETY INFORMATION

- Always ensure the caster is securely mounted to the equipment before use.
- Do not exceed the maximum load capacity of 330 lbs per caster. Overloading can lead to product failure and injury.
- Maintain proper tire inflation pressure as specified in the 'Specifications' section. Under-inflation or over-inflation can affect performance and safety.
- Inspect casters regularly for wear, damage, or loose components. Replace damaged casters immediately.
- Avoid exposing casters to extreme temperatures or harsh chemicals that may degrade materials.

3. PRODUCT OVERVIEW

The Hamilton Cush-N-Aire S-7008-PRB is a heavy-duty rigid caster designed for industrial applications requiring cushioning and floor protection. It features an 8-inch pneumatic (air-filled) tire with a 17mm sealed precision ball bearing, mounted on a robust forged steel rig with a crimson powder coat finish.

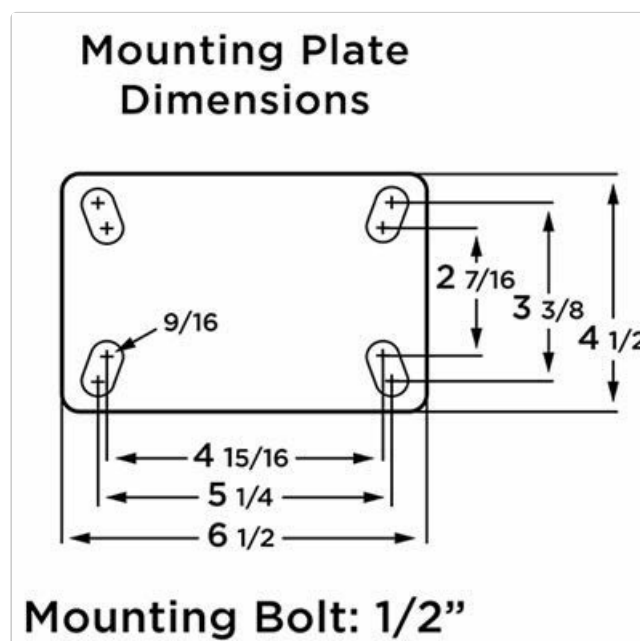


Image 3.1: The Hamilton Cush-N-Aire S-7008-PRB Rigid Caster, featuring an 8-inch pneumatic tire and a red forged steel rig.

4. SETUP AND INSTALLATION

This rigid caster is designed for plate mounting. Follow these steps for secure installation:

1. **Prepare Mounting Surface:** Ensure the mounting surface on your equipment is flat, clean, and strong enough to support the caster's load capacity.
2. **Align Mounting Plate:** Position the caster's mounting plate (4 1/2 x 6 1/2 inches) onto the desired location.
3. **Mark Bolt Holes:** Use the caster's bolt holes as a template to mark the drilling locations on your equipment. The bolt holes are slotted, accommodating patterns from 2 3/8 x 4 15/16 inches to 3 3/8 x 5 1/4 inches.
4. **Drill Holes:** Drill holes appropriate for 1/2-inch mounting bolts.
5. **Secure Caster:** Place the caster and secure it using four 1/2-inch mounting bolts, washers, and nuts (not included). Tighten all fasteners firmly to prevent loosening during operation.



5. OPERATION

The Hamilton Cush-N-Aire S-7008-PRB rigid caster is designed for straight-line movement and provides excellent cushioning for delicate loads or uneven surfaces. Due to its pneumatic tire, it offers superior floor preservation and quiet operation compared to hard-tread casters.

- **Load Distribution:** Distribute loads evenly across all casters to maximize stability and prevent premature wear.
- **Surface Considerations:** While pneumatic tires perform well on various surfaces, avoid sharp objects or debris that could puncture the tire.
- **Speed:** Operate equipment at speeds appropriate for the load and surface conditions. The caster is rated for a load capacity of 330 lbs at 3 mph.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your caster.

- **Tire Pressure:** Check tire pressure regularly. Maintain a maximum air pressure of 50 PSI. Under-inflated tires can increase rolling resistance and wear; over-inflated tires can reduce cushioning and increase the risk of blowouts.
- **Bearing Inspection:** The caster features sealed precision ball bearings, which generally require minimal maintenance. However, periodically check for smooth rotation and any signs of binding or excessive play.
- **Hardware Check:** Periodically inspect all mounting bolts and nuts for tightness. Re-tighten as necessary.
- **General Cleaning:** Keep the caster free from dirt, debris, and corrosive substances. Clean with a mild detergent and water if necessary.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Difficulty rolling / High rolling resistance	Low tire pressure; Damaged bearing; Obstruction in wheel	Check and adjust tire pressure; Inspect/replace bearing; Remove obstruction
Excessive noise during movement	Damaged bearing; Loose mounting hardware	Inspect/replace bearing; Tighten mounting bolts
Tire losing air quickly	Puncture; Valve stem issue	Inspect tire for damage and repair/replace; Check valve stem for leaks
Caster wobbles or feels unstable	Loose mounting hardware; Damaged rig	Tighten mounting bolts; Inspect rig for damage and replace if necessary

8. SPECIFICATIONS

Feature	Detail
Model Number	HD-S-7008-PRB
Caster Type	Rigid Plate Caster
Wheel Diameter	8 inches
Wheel Face	3 inches
Tire Type	Pneumatic Air-Filled (2.80-2.50-4)
Bearing Type	17mm Sealed Precision Ball Bearing
Load Capacity @ 3 mph	330 lbs per caster
Overall Height	10.625 inches
Mounting Plate Dimensions	4 1/2 x 6 1/2 inches
Bolt Hole Spacing	2 3/8 x 4 15/16 inches slotted to 3 3/8 x 5 1/4 inches
Mounting Bolt Diameter	0.5 inches (1/2 inch)
Max Air Pressure	50 PSI
Caster Rig Type	Forged Steel
Caster Color/Finish	Crimson Powder
Wheel Color/Finish	Black Tire on Black Rim
Item Weight	12 lbs
Low Temperature Range	-30°F
High Temperature Range	120°F

9. WARRANTY AND SUPPORT

This product is manufactured by Hamilton Caster and sold by CasterHQ. For specific warranty information, please refer to the terms and conditions provided at the time of purchase or contact CasterHQ directly. For technical support or inquiries, please visit the [CasterHQ Store on Amazon](#) or their official website.