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› MonsterBolts - M3 x 6mm Cup Point Set Screws, DIN 916, Stainless Steel, 10 Pack 10 M3 x 6mm User Manual

## MonsterBolts Set - Stain M3x6.10

# MonsterBolts M3 x 6mm Cup Point Set Screws User Manual

Model: Set - Stain M3x6.10

## INTRODUCTION

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This manual provides essential information for the proper use, installation, and maintenance of MonsterBolts M3 x 6mm Cup Point Set Screws. These screws are designed for securing components relative to a shaft or other part, utilizing a cup-shaped indentation at the end to provide a strong grip.

## PRODUCT SPECIFICATIONS

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Specification	Detail
Diameter	M3 / 3mm
Thread Size / Pitch	0.50 - Coarse (Standard) Thread (m3-0.5)
Type	Cup Point Socket Set Screw
Standards	DIN 916 / ISO 4029
Material	Stainless Steel Grade A2-70 / 18-8 / Type 304
Drive System	External Hex (requires M1.5 / 1.5mm Hex Key)
Head Style	Hex
Point Style	Cupped Point
Measurement System	Metric
Item Package Quantity	10 screws
Item Weight	1 Ounce (for the package)
Thread Coverage	Fully Threaded

## SETUP AND INSTALLATION

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Before installation, ensure you have the correct tools and that the receiving hole is properly threaded and sized for an M3 screw.

### Required Tools:

- M1.5 / 1.5mm Hex Key (Allen wrench)
- Appropriate measuring tools (calipers, ruler) to verify dimensions if needed.

### Installation Steps:

1. **Verify Compatibility:** Confirm that the M3 x 6mm dimensions and thread pitch (0.50 coarse) are suitable for your application.
2. **Prepare the Hole:** Ensure the threaded hole is clean and free of debris. If necessary, use a tap to clean or create the threads.
3. **Position the Component:** Place the component to be secured in its desired position relative to the shaft or surface.
4. **Insert the Screw:** Carefully insert the M3 x 6mm cup point set screw into the threaded hole.
5. **Tighten the Screw:** Using an M1.5 / 1.5mm hex key, turn the screw clockwise to tighten. The cup point will engage with the surface of the shaft or component, providing a secure hold.
6. **Apply Torque:** Tighten the screw to the recommended torque specification for M3 stainless steel fasteners in your specific application. Avoid over-tightening, which can strip threads or damage the screw/component.



Image: A close-up of the M3 x 6mm cup point set screws, highlighting their design and hex drive.

## OPERATING PRINCIPLES

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Cup point set screws are designed to create a semi-permanent or permanent connection by digging into the mating surface. This provides high resistance to loosening from vibration or rotational forces.

### Key Characteristics:

- **Secure Grip:** The cup point creates a strong indentation, preventing relative motion between parts.
- **Blind Fastening:** Often used where the screw head needs to be flush or below the surface.
- **Material Compatibility:** Stainless steel (A2-70 / 18-8 / Type 304) offers good corrosion resistance, suitable for various environments.

## MAINTENANCE

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MonsterBolts M3 x 6mm set screws require minimal maintenance due to their stainless steel construction. However, proper care can extend their lifespan and ensure reliable performance.

### Recommendations:

- **Storage:** Store unused screws in a dry environment to prevent potential surface corrosion, especially in humid or corrosive atmospheres.
- **Cleaning:** If screws become dirty, clean them with a soft cloth and a mild, non-abrasive cleaner. Avoid harsh chemicals that could damage the stainless steel finish.
- **Inspection:** Periodically inspect installed screws for signs of loosening or damage. Re-tighten if necessary, adhering to appropriate torque specifications.
- **Reusability:** While stainless steel screws are durable, repeated installation and removal, especially with excessive torque, can wear down the hex drive or threads. Replace screws if signs of wear are visible.

## TROUBLESHOOTING

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Common issues encountered with set screws and their potential solutions:

- **Screw will not tighten / spins freely:**
  - The receiving thread may be stripped. Consider using a slightly larger screw (if applicable) or re-tapping the hole.
  - The screw's threads may be damaged. Replace the screw.
- **Hex drive is stripping:**
  - Ensure you are using the correct size (M1.5 / 1.5mm) hex key.
  - Apply firm, even pressure when turning the hex key.
  - The screw may be seized due to corrosion or over-tightening. Apply penetrating oil if necessary, or consider drilling out the screw as a last resort.
- **Screw loosens over time:**
  - Ensure the screw was tightened to the appropriate torque.
  - The cup point may not be properly seated. Re-tighten or inspect the mating surface for irregularities.
  - Consider using thread-locking compound for applications subject to high vibration.
- **Screw is too short/long:**
  - Verify the required length for your application. MonsterBolts offers various sizes.

# Includes: 10 x Screws



Image: M3 x 6mm set screws shown next to a dime for scale, indicating the package quantity.

## SUPPORT

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For further assistance or inquiries regarding MonsterBolts products, please visit the official MonsterBolts store on Amazon or contact their customer support directly.

Official Store Link: [MonsterBolts Amazon Store](#)