Moyu MF8880

Moyu RS3M 2020 Magnetic Speed Cube Instruction Manual

Model: MF8880

1. Introduction

This manual provides essential information for the proper use and maintenance of your Moyu RS3M 2020 Magnetic Speed Cube. Designed for both beginners and experienced cubers, this 3x3 magnetic speed cube offers adjustable elasticity and a smooth turning experience. Please read this manual thoroughly to ensure optimal performance and longevity of your product.

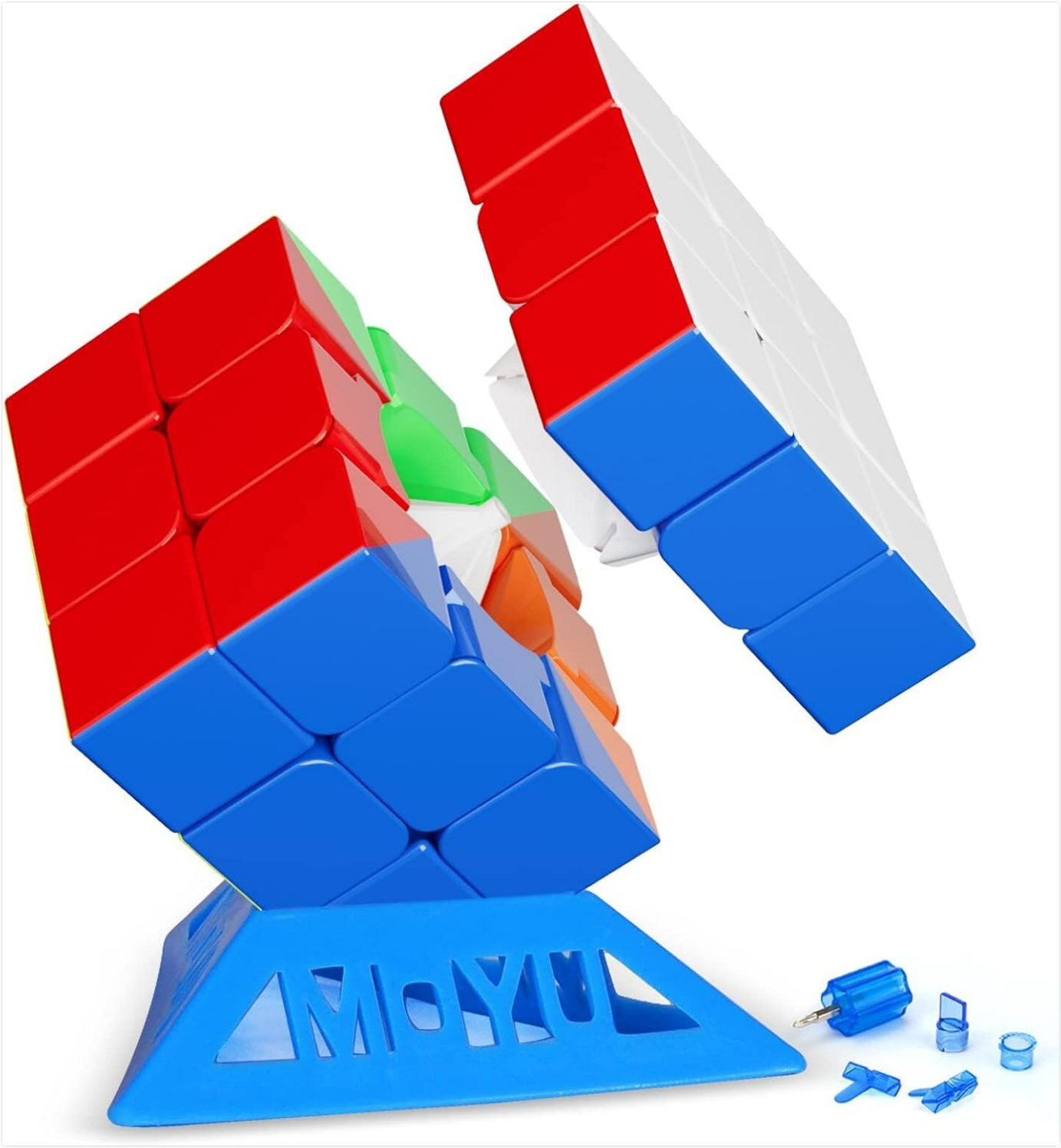


Image 1.1: The Moyu RS3M 2020 Magnetic Speed Cube, displayed on its stand with included adjustment tools.

2. Safety Information

WARNING: CHOKING HAZARD - Small Parts. Not for children under 3 years.
Keep the cube and its small adjustment tools out of reach of young children to prevent accidental ingestion.

3. Product Features

- **Magnetic Positioning Mechanism:** The cube incorporates 48 magnets to assist in precise alignment and smooth turning, enhancing stability during solves.

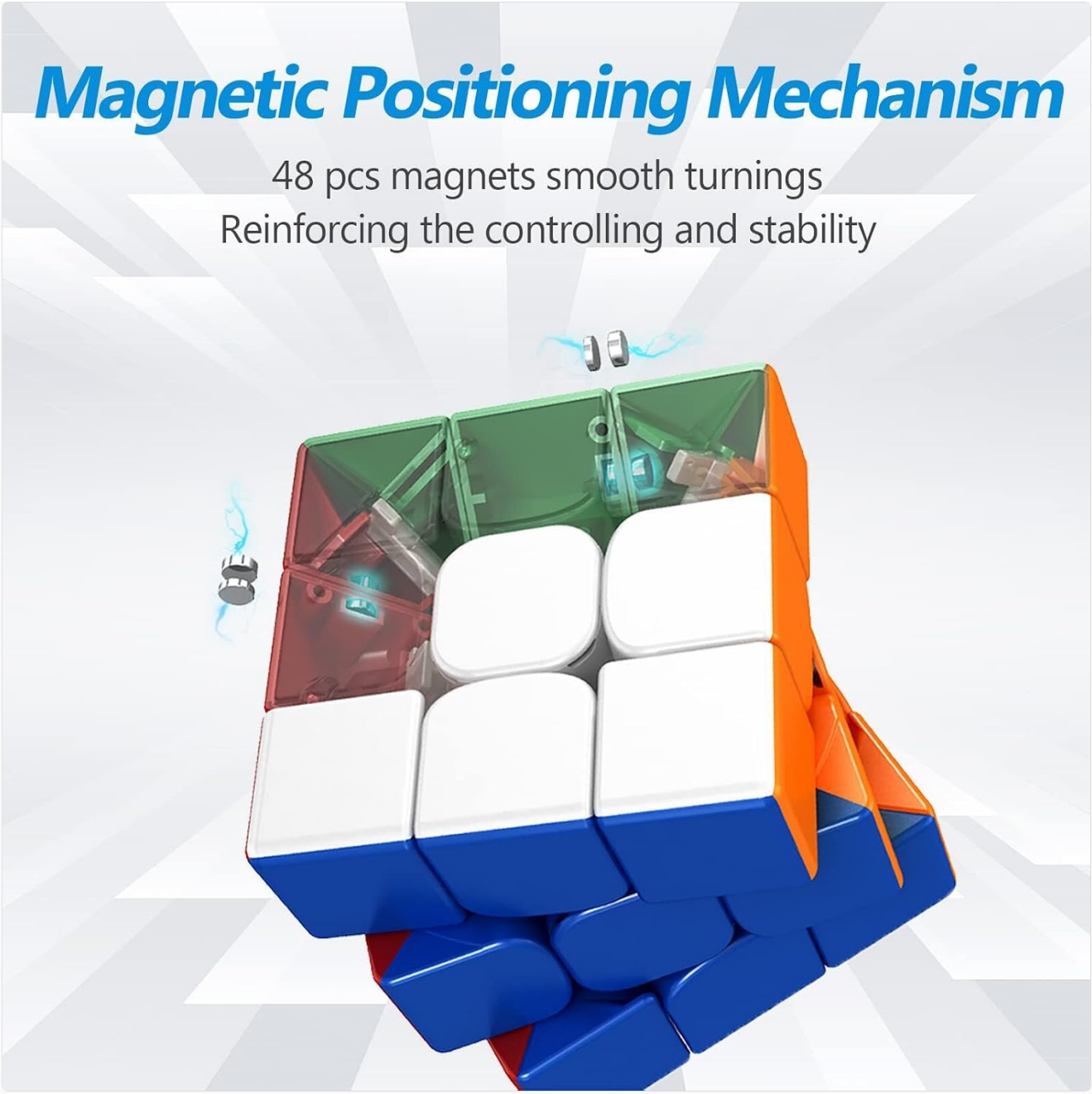


Image 3.1: Illustration of the internal magnetic positioning mechanism, highlighting the magnets that aid in smooth turning and stability.

- **Adjustable Elasticity:** A unique dual-adjusting tool allows for nine levels of elasticity adjustment, enabling users to customize the tension to their preference.



Image 3.2: Detailed view of the dual adjustment system, illustrating how to adjust the cube's elasticity and tension.

- **Sticker-less Shade:** Constructed from bright, durable ABS material, the cube features vibrant, sticker-less colors for easy identification and a comfortable grip. This design also prevents stickers from peeling or fading over time.



Image 3.3: A close-up demonstrating the vibrant, sticker-less shades of the cube, designed for durability and visual clarity.

- **Strong & Stable Design:** Features such as Dual Anti-pop Feet, Round-square Center Design, and Dual Anti-sticky Design work together to minimize internal contact surface, providing enhanced stability and preventing pieces from popping out during rapid solves.



Image 3.4: An internal view highlighting the Dual Anti-Sticky Design, which reduces friction and improves stability.



Image 3.5: A diagram showcasing the Round-square Center Design, contributing to the cube's overall stability.

4. Setup and Adjustment

The Moyu RS3M 2020 comes pre-assembled and ready for use. However, you can fine-tune its performance using the included adjustment tools.

4.1 Adjusting Elasticity (Tension)

1. Locate the center caps on each face of the cube. Gently pry off one center cap to reveal the adjustment mechanism.
2. Insert the blue adjustment tool into the center ring.
3. Rotate the tool counter-clockwise to loosen the tension (making the cube turn more freely) or clockwise to tighten the tension (making the cube feel more stable). The dual adjustment system offers nine distinct levels of elasticity.
4. Repeat this process for all six faces, ensuring consistent tension across the cube for balanced performance.
5. Replace the center caps.

Image 4.1: Step-by-step guide on using the adjustment tool to modify the cube's elasticity.



Image 4.2: Visual representation of the nine available elasticity levels for fine-tuning the cube's feel.

4.2 Adjusting Screw Length (Core Tension)

For more advanced adjustments, you can also modify the length of the screws beneath the elasticity mechanism. This affects the core tension of the cube.

1. Remove the center cap and the elasticity adjustment mechanism as described above.
2. Use a small screwdriver (often included with the cube) to turn the screw. Turning clockwise tightens the core, and counter-clockwise loosens it.
3. Adjust all six screws evenly to maintain the cube's structural integrity and balance.
4. Reassemble the elasticity mechanism and center caps.

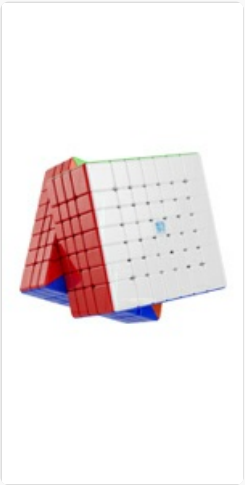


Image 4.3: Instructions for adjusting the screw length, which controls the core tension of the cube.

5. Operating Instructions

The Moyu RS3M 2020 is a standard 3x3 speed cube. Its operation involves turning its faces to scramble and then solve the puzzle, aligning all colors on each face.

- **Turning:** Hold the cube firmly and rotate any face (top, bottom, front, back, left, right) 90, 180, or 270 degrees. The magnetic positioning will help guide the layers into place.
- **Corner Cutting:** The cube is designed with excellent corner cutting capabilities, allowing for turns even when the layers are not perfectly aligned. This feature is crucial for speed cubing.
- **Solving:** Utilize standard Rubik's Cube algorithms and techniques to solve the puzzle. The smooth turning and

magnetic feedback of the RS3M 2020 will enhance your solving experience.

6. Maintenance

Proper maintenance ensures the longevity and optimal performance of your speed cube.

- **Cleaning:** Wipe the exterior of the cube with a soft, dry cloth to remove dust and fingerprints. Avoid using harsh chemicals or abrasive materials, as these can damage the plastic.
- **Lubrication:** For advanced users seeking to further customize the feel, specialized silicone-based cube lubricants can be applied sparingly to the internal contact surfaces. Remove a piece (e.g., an edge piece) to access the interior, apply a small drop of lubricant, and then work it in by turning the cube. Do not over-lubricate.
- **Storage:** Store the cube in a clean, dry place, away from direct sunlight and extreme temperatures, to prevent material degradation.

7. Troubleshooting

- **Cube feels too loose or too tight:** Adjust the elasticity using the dual adjustment system as described in Section 4.1.
- **Pieces popping out:** This can occur if the cube is too loose or if aggressive turning is applied. Try tightening the elasticity (Section 4.1) or the core screws (Section 4.2). If a piece pops out, carefully reinsert it.
- **Grinding or rough turning:** The cube may need cleaning or lubrication. Refer to Section 6 for maintenance tips. Ensure all internal components are free of debris.
- **Magnets feel weak or inconsistent:** While rare, if magnets feel significantly weaker, ensure the cube is not exposed to strong external magnetic fields. If the issue persists, contact customer support.

8. Specifications

Feature	Detail
Product Dimensions	2.2 x 2.2 x 2.2 inches
Item Weight	3.84 ounces
Model Number	MF8880
Manufacturer	Moyu
Recommended Age	6 years and up
Type	3x3 Magnetic Speed Cube
Material	ABS Plastic (Sticker-less)

9. Warranty and Support

Moyu products are manufactured to high-quality standards. For any inquiries, technical support, or warranty claims, please contact the seller or manufacturer directly. Keep your purchase receipt as proof of purchase.
Manufacturer: Moyu
Seller: MoYu US

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