

GAN GAN 251 M Pro

GAN 251 M Pro 2x2 Magnetic Speed Cube Instruction Manual

Model: GAN 251 M Pro

1. INTRODUCTION

Welcome to the instruction manual for your GAN 251 M Pro 2x2 Magnetic Speed Cube. This guide will help you understand the features, adjust settings, and maintain your cube for optimal performance. The GAN 251 M Pro is designed for speedcubing enthusiasts, featuring a magnetic core and advanced tuning systems.

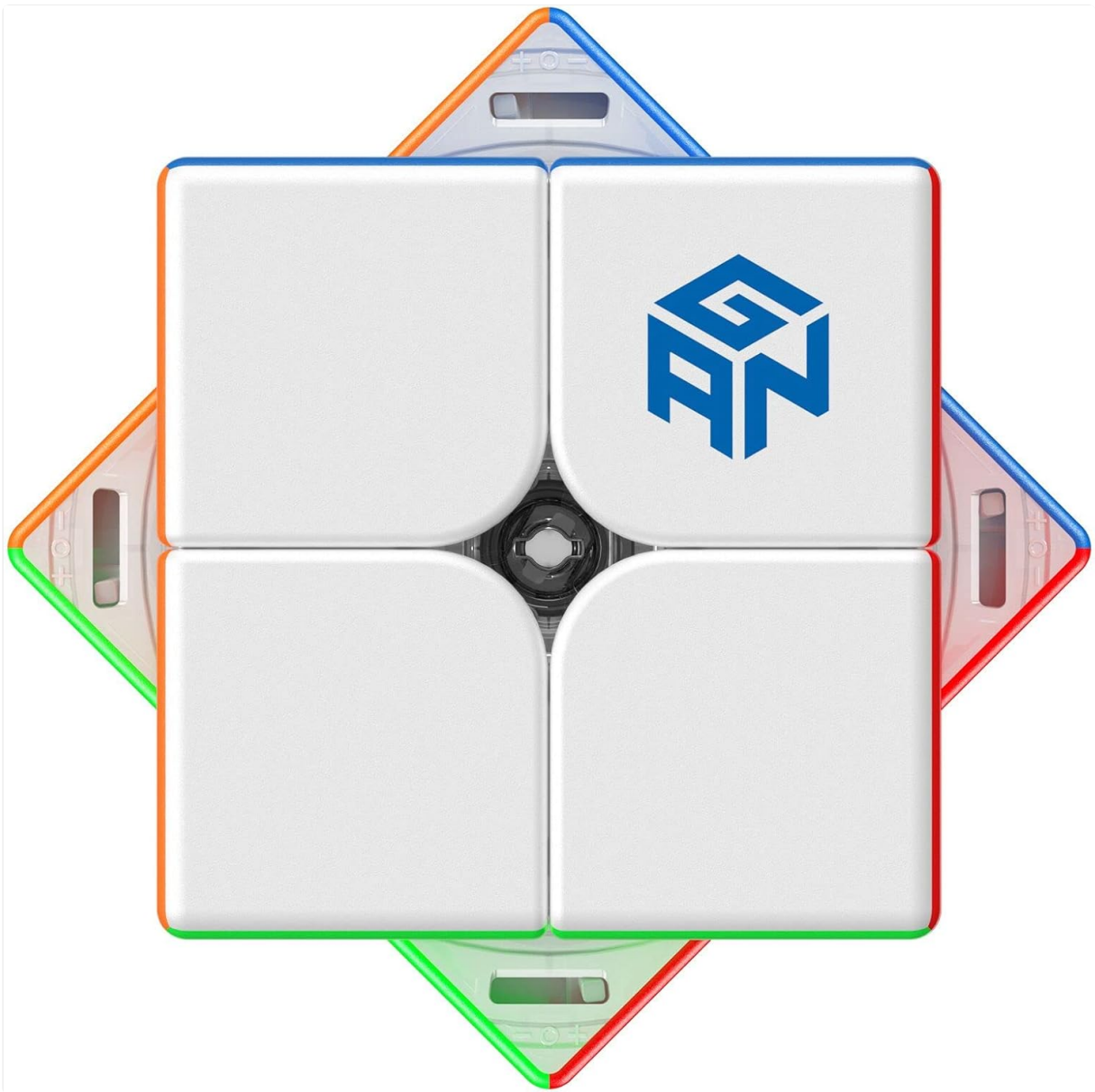


Figure 1: The GAN 251 M Pro 2x2 Magnetic Speed Cube.

2. PACKAGE CONTENTS

Upon opening your GAN 251 M Pro package, you should find the following items:

- GAN 251 M Pro Speed Cube
- GAN Bag
- GAN Box v7
- GES Set (for Pro & Leap versions)
- Tuning Rod
- GAN 251 M Series Manual
- 2x2 Cube Tutorial
- Screwdriver (for Pro & Leap versions)



Figure 2: Included accessories for the GAN 251 M Pro.

3. INITIAL SETUP AND INSPECTION

Before first use, carefully remove the cube from its packaging. Inspect the cube for any visible damage. The GAN 251 M Pro comes pre-assembled and ready for use. No additional assembly is required. The cube features a frosted surface for enhanced grip and scratch resistance. The internal mechanism includes a magnetic core for improved stability and turning feel.

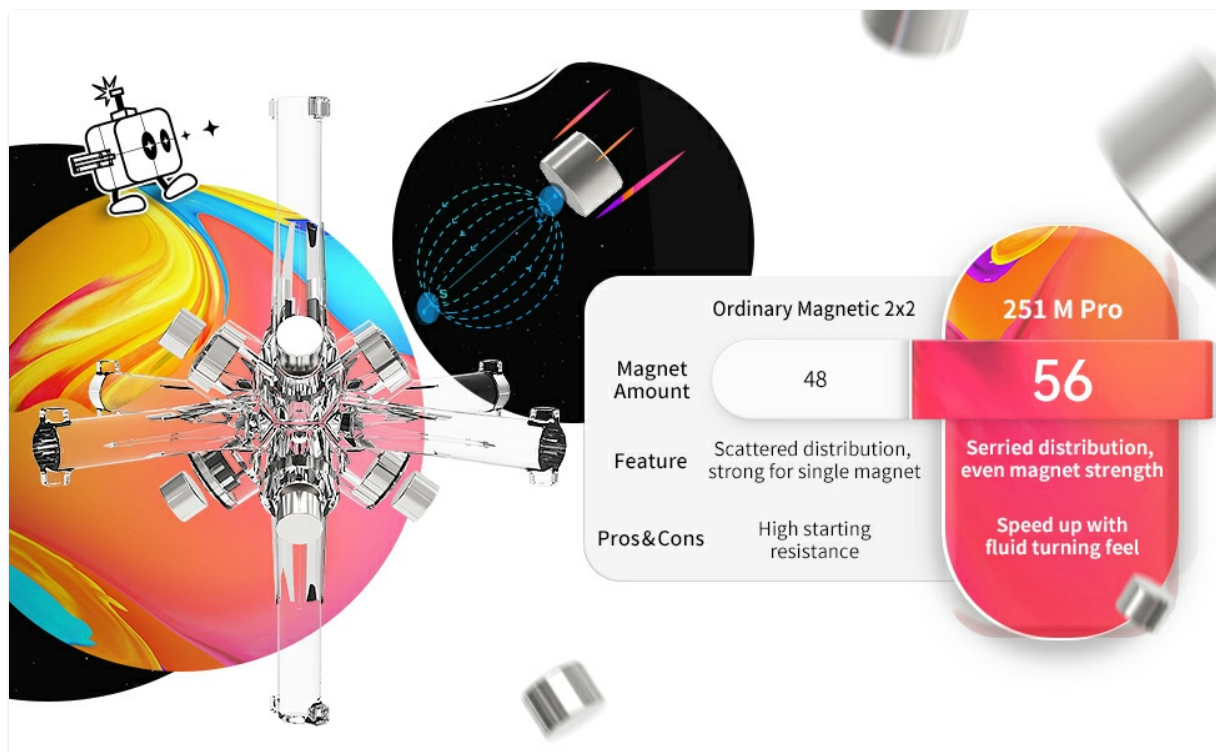


Figure 3: Illustrates the frosted surface and seamless design of the cube.

4. OPERATING YOUR SPEED CUBE

The GAN 251 M Pro is a 2x2 speed cube designed for smooth and fast rotations. To operate, simply hold the cube and rotate its layers horizontally and vertically. The magnetic system assists in aligning the layers, providing a crisp and stable turning experience.

The cube's rounded track system and optimized corner cutting (55° positive, 35° reverse) allow for fluid movements and forgiveness during solves.



Figure 4: Demonstrates the smooth handfeel and corner cutting capabilities.

5. TUNING AND ADJUSTMENT

The GAN 251 M Pro offers extensive tuning options to customize the cube's feel and performance. This model features the GES v3 (GAN Elasticity System) and GMS v3 (GAN Magnetic System) for precise adjustments.

5.1. GES v3 (GAN Elasticity System)

The GES v3 system allows you to adjust the center piece travel distance and spring tension. The GAN 251 M Pro is equipped with 2 kinds of nut distances and 4 levels of elasticity. These adjustments influence the cube's tightness and turning speed.

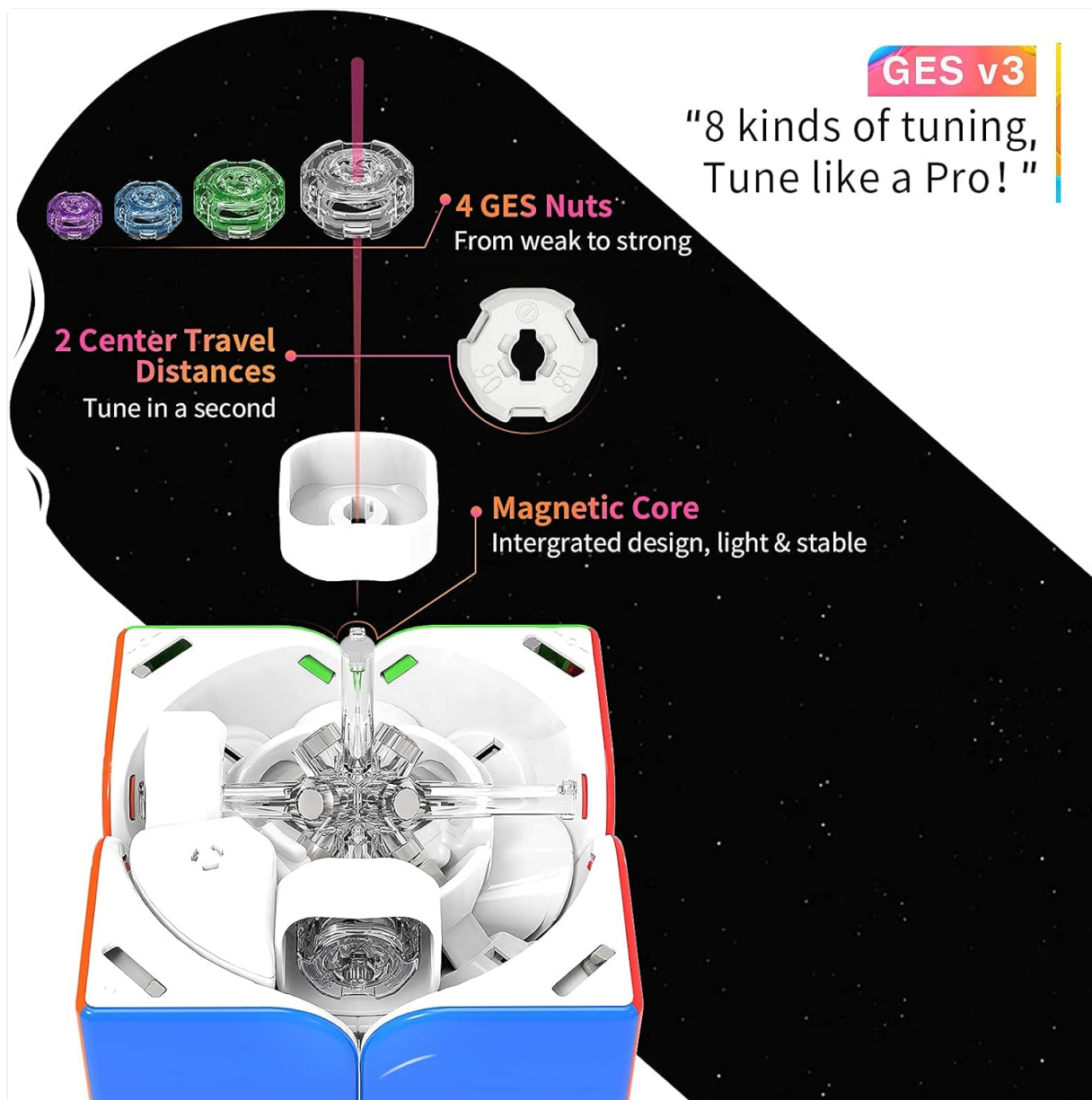


Figure 5: Exploded view of the GES v3 system with 2 center travel distances and 4 GES Nuts for elasticity.

5.2. GMS v3 (GAN Magnetic System)

The GMS v3 system allows for adjustable magnet strength. The GAN 251 M Pro offers 3 settings for magnet strength (weak, medium, strong), providing further customization of the cube's tactile feedback and stability.

"3 settings of adjustable magnets"

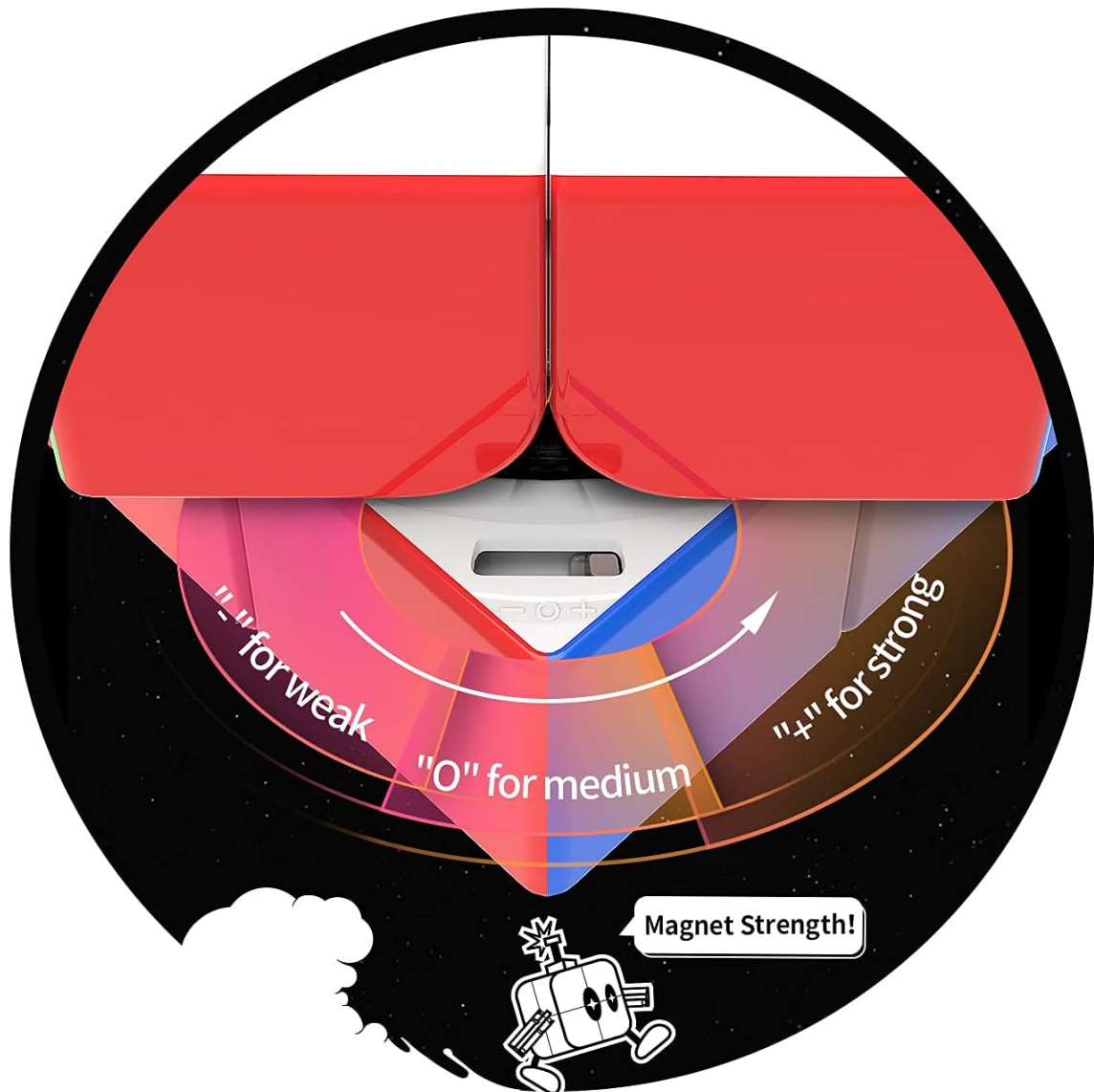


Figure 6: Illustration of the 3 settings for adjustable magnet strength (GMS v3).

5.3. Magnetic Core Technology

The GAN 251 M Pro features a magnetic core, which integrates magnets directly into the core and pieces. This design enhances stability and provides a smoother, lighter turning feel compared to traditional magnetic cubes.

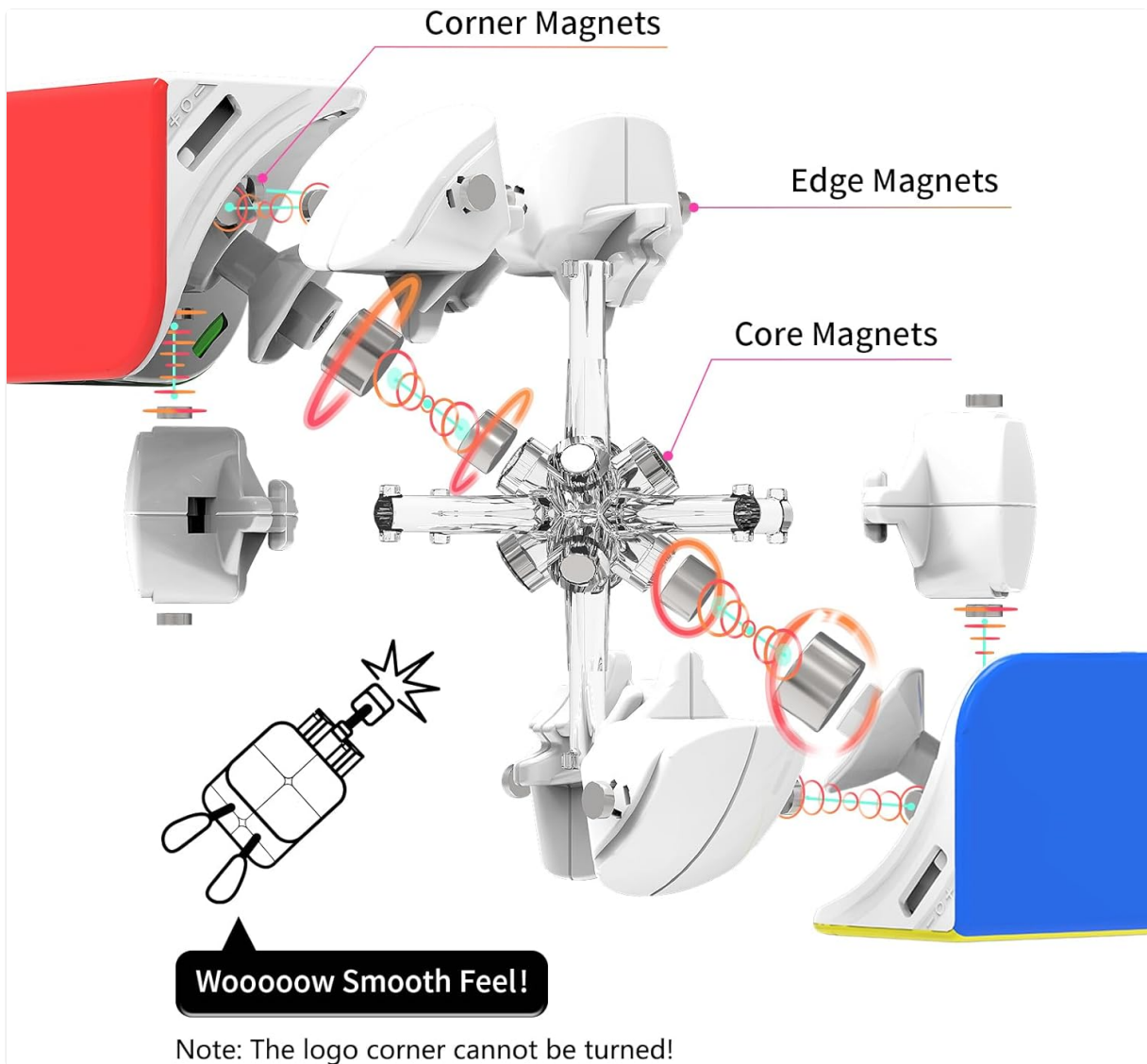
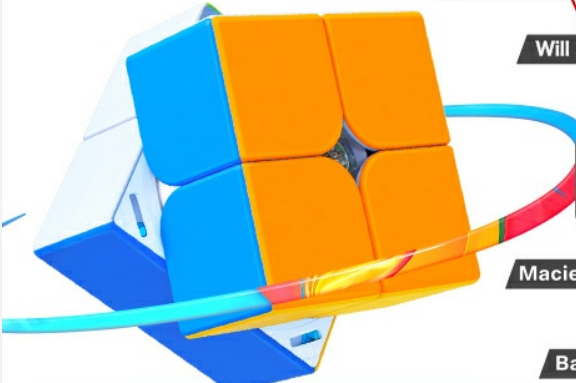


Figure 7: Exploded view showing corner, edge, and core magnets for a smooth feel.

World Class View



"I was surprised that it was quite controllable."

Will Callan / **WR 2**

"Both cubes are amazingly good, I think those cubes are probably top 1 now."

Maciej Czapiewski / **WR 6**

"Corner cutting is phenomenal, compared to my current main. It's much faster and easier to solve."

Jode Brewster / **WR 4**

"I feel like the Leap version is the perfect combination of speed and stability."

Andy Denney / **WR 19**

"I had no problem with pops, lockups or cornertwists. The turning is pleasurable. My new main."

Bautista Bonazzola / **CR 6**

Figure 8: Comparison of ordinary magnetic 2x2 vs. 251 M Pro with 56 serrated distribution magnets for fluid turning.

5.4. Tuning Video Guide

For a visual guide on how to adjust the center piece travel and spring tension using various GAN Elasticity Systems (GES), please watch the official video below. While the video covers multiple GAN cubes and GES versions, the principles for adjusting the GAN 251 M Pro's GES v3 system are similar.

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Video 1: Official guide on adjusting center piece travel and spring tension for GAN cubes, including relevant GES systems.

6. MAINTENANCE

To ensure the longevity and optimal performance of your GAN 251 M Pro, follow these maintenance tips:

- **Cleaning:** Wipe the cube regularly with a soft, dry cloth to remove dust and fingerprints. Avoid using harsh chemicals or abrasive materials.
- **Lubrication:** If the cube feels stiff or sluggish over time, apply a small amount of speed cube lubricant to the internal mechanism. Rotate the layers to distribute the lubricant evenly. Use lubricants specifically designed for speed cubes.
- **Storage:** Store the cube in its original box or a protective pouch to prevent dust accumulation and accidental damage.
- **Avoid Extreme Conditions:** Do not expose the cube to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture, as this can affect the plastic and internal components.

7. TROUBLESHOOTING

Here are some common issues and their solutions:

- **Cube feels too loose or too tight:** Adjust the GES v3 system as described in Section 5.1 to achieve your preferred tension and travel.
- **Magnets feel too strong or too weak:** Adjust the GMS v3 system as described in Section 5.2 to change the magnet strength.
- **Cube feels sluggish or gritty:** The cube may need lubrication. Refer to the "Lubrication" point in Section 6.
- **Cube "pops" (pieces come apart):** This usually indicates the tension is too loose. Tighten the GES v3 system. Ensure all pieces are correctly assembled.

8. SPECIFICATIONS

Feature	Detail
Brand	GAN
Model Number	GAN2x2 (Manufacturer Part Number: 251)
Set Name	GAN 251 M Pro
Item Dimensions (L x W x H)	2.01 x 2.01 x 0.04 inches
Item Weight	1.6 ounces
Material Type	Plastic
Puzzle Type	Twisty

Skill Level	Beginner
Additional Features	Portable, Magnetic Core, Adjustable Magnets, Tension Tuning
Number of Pieces	63
Operation Mode	Manual

9. WARRANTY AND SUPPORT

For any missing accessories, unpleasant experiences, or questions regarding your GAN 251 M Pro speed cube, please contact the GAN Cube customer service team. They are dedicated to ensuring customer satisfaction.

The product typically comes with a return policy of 30 days. Please refer to your purchase documentation for specific warranty details and return procedures.

You can find more information and support on the official GAN Cube store or website.