



GAN12 系列 调试说明书

谢谢你选中这只 GAN 魔方。

GAN 魔方，成为专业竞速魔方的担当，不仅在于极致的性能设计、精湛的工艺水平，更在于它的适调性。我们认为，让魔方适应不同玩家的偏好，而非相反，是一只专业魔方的基本修养，所以我们不断提升 GAN 魔方的可调性。

GAN12 系列是 GAN 品牌在 2021 年推出的最新旗舰魔方。系列全线产品搭载了全向芯定位系统，其中 GAN12 Maglev 采用最新的磁力 GES 系统与磁力轴 2.0，利用磁悬浮原理，极大降低了转动阻力，同时实现了大角度自动归位。

让 GAN 魔方成为你得心应手的爆速伙伴。

GAN12 系列产品表

型号	磁力	弹力	轴	重量	尺寸	版本
GAN12 Maglev		磁力GES	磁力轴2.0	65.5g	56mm	雾面/UV
GAN12 M Leap	GMS V3			61.5g		
GAN12 ui		GES PRO+	智能轴	/		UV

调试视频教程



GAN 调试系统(GES & GMS)

轻松实现 252 种数字化个性调试

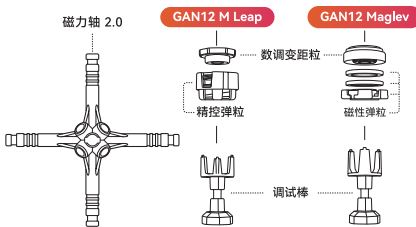
决定魔方手感的三要素

	定义	功能	调试组件	可调档位
轴距	魔方中心块可上下移动的范围	决定魔方的容错、易容、防Pop等关键性能	GES PRO+	6 档
弹力	压制魔方各面的力度大小	魔方的松紧手感	GES PRO+ /磁力GES	6 级
磁力	魔方转动时各层相互吸引的强度	转动时魔方的定位感大小	GMS v3	6 档(以及无角轴磁力模式)

GAN 弹力系统

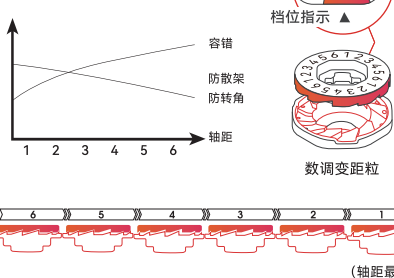
6 档轴距数字调试、6 级弹力精准调试

GAN12 M Leap 采用 GES PRO+ 数调弹力系统，通过旋转数调变距粒、精控弹粒可分别实现轴距、弹力精调。
GAN12 Maglev 采用的磁力 GES 系统则是通过旋转数调变距粒、磁性弹粒可分别实现轴距、弹力精调。

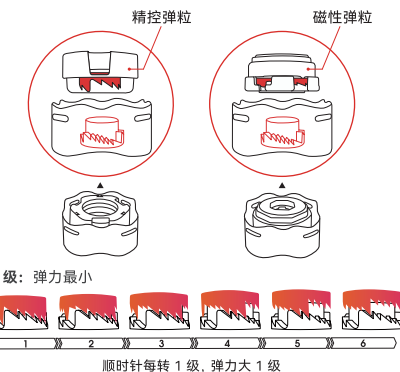


轴距：数调变距粒

1/2/3/4/5/6:
6 档轴距，小轴距紧，大轴距松。



弹力：弹粒 & 精控中心块

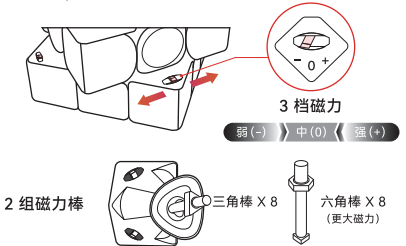


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GAN 磁力系统 (GMS v3)

6 档磁力极速调试

GAN12 系列采用颠覆性的全向芯定位磁力系统，以 GAN 磁力轴作为供磁核心，配合棱、角块磁力，赋予魔方低启动阻力、均匀分布的磁力感。磁力调试在 8 个角块上，分 3 档进行，并可实现 2 组磁力棒更换。



调试步骤

调试棒使用说明

- 用于智能魔方调试时，调试棒如图1所示；
- 用于普通魔方调试时，调试棒如图2所示，请按以下步骤进行调试棒形态转换：

- 使 GAN logo 垂直对准凹槽处；
- 捏住调试棒两端，轻轻用力往外拉，使调试棒两段连接处卡紧。

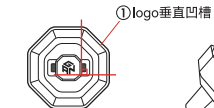


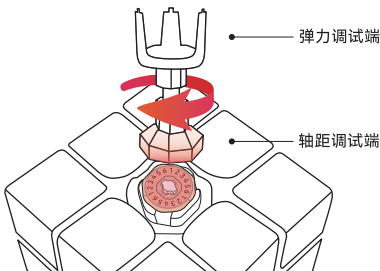
图1
智能魔方模式



图2
普通魔方模式

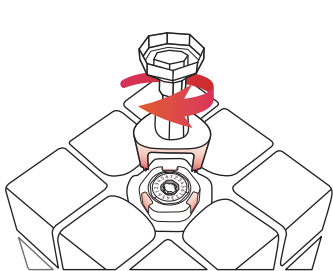
第一步：轴距调试

将调试棒的轴距调试端对准数调变距粒插入，顺时针旋转数调变距粒，每到一档均有明显卡顿。每转 1 级，轴距减少 1 级，从 1 级转到 6 级的卡顿声音最明显。



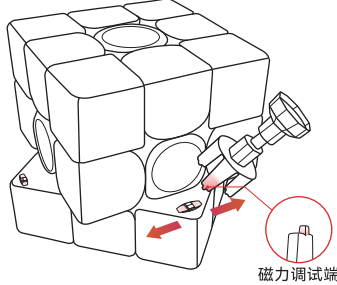
第二步：弹力调试

将调试棒的弹力调试端对准弹粒三边槽口插入，顺时针旋转弹粒，每到一级均有明显卡顿。每转 1 级，弹力增加 1 级，从 6 级转到 1 级的卡顿声音最明显。

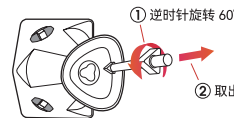


第三步：磁力调试

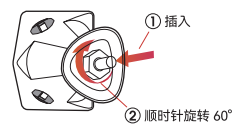
- 标准磁力调试（无需拆装魔方）
转动底层 45°，露出角块变磁档位，用磁力调试端拨动变磁杆至目标档位（图示）。



- 高级磁力调试（需拆装魔方，请谨慎操作）
a. 拆出任一角块，逆时针转动磁力棒 60° 解除卡定后将其取出。



- b. 装入新的磁力棒，顺时针转动 60° 卡定，将角块装回魔方。逐一拆装每个角块进行磁力棒更换。





GAN12 SERIES USER MANUAL



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For more speedcubing stuff

Thanks for choosing the GAN cubes.

GAN cube has earned its name in speedcubing, not only because its beastly performance, state-of-the-art quality, but also its customizability.

We believe that every cuber, fast or not, deserves a cube that fully adapts to his or her turning style, not the other way around. So we keep enhancing the customizability of our cubes.

GAN12 series is the latest flagship cube launched by GAN in 2021. The whole series of products are equipped with Core-Positioning Magnets. GAN12 Maglev adopts the latest magnetic GES system and magnet core 2.0, which greatly reduces the rotation resistance and realizes large angle automatic homing by using the magnetic levitation principle.

Let the GAN cube unleash your speed.

GAN12 SERIES

Model	Magnet	Tension	Core	Weight	Size	Version
GAN12 Maglev	GMS V3	Magnetic GES	Magnet core 2.0	65.5g	56mm	Frosted surface/UV
GAN12 M Leap		GES PRO+	Intelligent core	61.5g		UV
GAN12 ui				/		

Video Instruction



GAN Adjustment Systems (GES & GMS)

252 customization options made effortlessly available

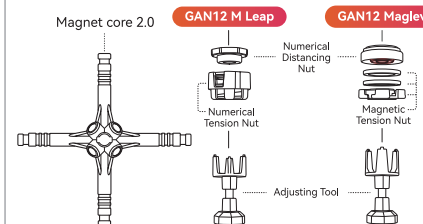
The key factors determining how your cube feels

	Meaning	Function	Adjustment	Setting Levels
Center Travel	The distance of the center piece is allowed to move up and down along the core when turning	Decides the key performance parameters like Corner cutting & Anti-POP	GES PRO+	6 settings
Tension	The tightness of the sides being compressed to the core	How tight the cube feels when turning	GES PRO+ /Magnetic GES	6 settings
Magnet Strength	The strength of magnetic attraction when turning	The strength of positioning felt when turning	GMS v3	6 settings (and a special mode without center-edge magnet)

GAN Elasticity System

6 center travel settings & 6 tension settings

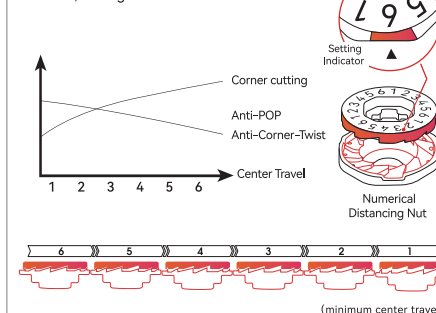
GAN12 M Leap is equipped with GES PRO+ which can adjust the center travel and tension by adjusting the numerical distancing nut and tension nut. GAN12 Maglev is equipped with magnetic GES which can adjust the center travel and tension by adjusting the numerical distancing nut and magnetic tension nut.



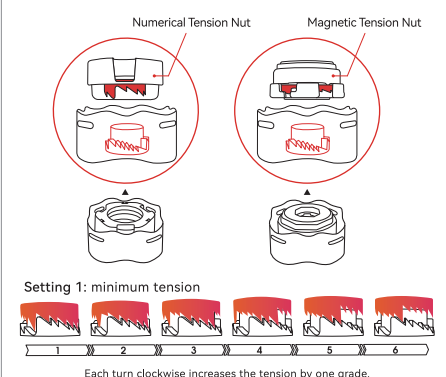
Center Travel: Numerical Distancing Nut

1/2/3/4/5/6:

6 center travel options, the smaller the number, the tighter the cube feels.



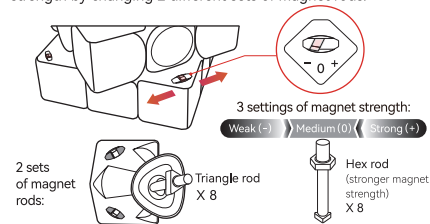
Tension: Tension Nut & Precise Center Piece



GAN Magnet System (GMS v3)

Fast switching between 6 different magnet settings

GAN12 series adopts a brand-new magnet positioning system, with the GAN's magnet core providing the major magnet force, compensated by magnets between the edge & corner pieces. It gives the cube a perfect combination of low start-up resistance and unprecedented stable magnetic output when turning. Magnet adjustment is operated at the 8 corner pieces with 3 different magnet settings. It also can adjust the magnet strength by changing 2 different sets of magnet rods.

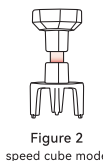


Set up steps

Instructions for Adjusting Tool

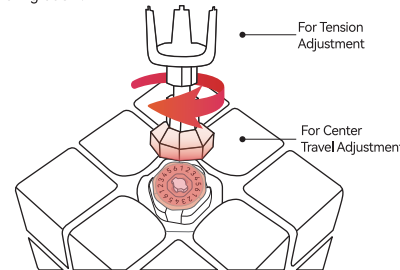
- When used for smart cube adjusting, the tool is shown as Figure 1.
 - When used for speed cube adjusting, the tool is shown as Figure 2.
- Please follow the steps below to convert the form:

- Align the Gan Logo vertically with the groove.
- Hold both ends of the tool and gently pull it out to make the connection between the two sections clamp tightly.



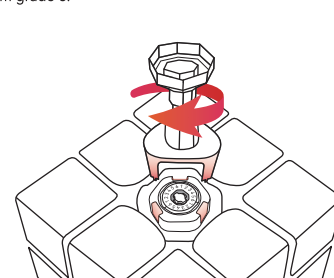
Step 1 : Center Travel Adjustment

Insert the tool into the numerical distancing nut. Then turn clockwise to adjust the center travel. Each turn clockwise decreases the center travel by one grade. You will feel a click with every turn as the nut moves. There will be the most obvious click when the center travel turn to grade 6 from grade 1.



Step 2 : Tension Adjustment

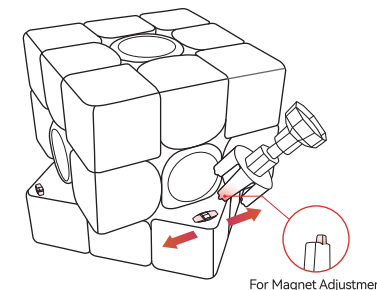
Insert the tool into the GES nut from the 3 matching slots. Then turn clockwise to increase the tension. You will feel a click with every turn as the nut moves downward. There will be the most obvious click when the tension turn to grade 1 from grade 6.



Step 3 : Magnet Adjustment

1 Standard Adjustment (NO disassembling required)

Turn the outer layer 45° to expose the magnet slots on the corner pieces. Use the tool to toggle the lever to the desired setting.



2 Advanced adjustment (requires disassembling the cube)

a. start from any one of the corner pieces. Take the corner piece out. Turn the magnet rod 60° counterclockwise to unlock and pull it out from the slot.

