HARVEY®

Miter Gauge Manual

Model: MG-36Pro

COMPASS

MG-36PRO

Revision B 2023-08

298006404

Contents

English Version

1/ Foreword

Congratulations on your new MG-36Pro Compass Miter Gauge! We appreciate your support in Harvey and hope that this product will serve you well for many years to come!

In order to acquaint you to your new miter gauge, please carefully review the information provided in this manual before assembling or operating this product. This user manual is intended to help you better understand how to safely assembly, properly use, and maintain your tool. While this manual tries to cover all aspects of proper usage and safety regulations, unfortunately we cannot cover everything. It is assumed that the operator has experience with operating all tools and machineries used in conjunction with our product. Failure to follow necessary and proper safety precautions can result in serious damage or bodily injuries. We recommend that the operator familiarize themselves with the product before using the product. If you are unsure or need additional information about our product, then please contact Harvey service team for assistance.

As a company, Harvey strives to continuously improve our products. We reserve the rights to modify specifications, designs, operation, and maintenance instructions as necessary without advance notice.

2/ Warranty Information

All Harvey products are warranted to be free from defects in material and craftsmanship. We stand by our product and offer a limited one-year warranty from the date of purchase. All warranty claims, repairs, replacements should be serviced by Harvey or an authorized Harvey service professional. Defective parts will be repaired or replaced by Harvey at no additional charge. The warranty will not cover the following:

- ◆ Normal wear, tear, and consumable parts
- ◆ Abuse, misuse, or neglect of the product
- ◆ Lack of proper care and maintenance
- ◆ Use of non-genuine Harvey parts and/or components
- ◆ Unauthorized repairs, alterations or modifications
- ◆ Any force majeure, fire or explosion

3/ Safety Regulations

When using the Harvey Compass Miter Gauge in conjunction with any other tools or equipment, please carefully read and follow all instructions and safety precautions as stated in the tool' s user manual. Safety first!

1. Do not operate any machinery or tool when tired, distracted, or under the effects of drugs, alcohol or any medication that could impair reflexes or alertness. Serious bodily injury could result due to the lack of attention while operating such tools.
2. Always work in a well-lit, dry, and clean work environment.
3. Keep children and bystanders at a safe distance when operating any power tools or machineries; do not permit them to operate any equipment without proper training and understanding of the tool.
4. Fine particulate saw dust is a carcinogen that can be hazardous to health. Work in a well-ventilated area and use proper dust collection whenever possible. Always wear eye, ear and respiratory protection devices to avoid injury or harm.
5. Dress appropriately. Do not wear loose clothing, gloves, bracelets, necklaces and ornaments while saw is in operation. Wear hair tie or protective hair covering to contain long hair.
6. Remove all adjusting wrenches, tools, drinks and any clutter that could be obstructing the machine and/or the table surface before operating the tool or equipment.
7. Remember to keep hands a safe distance away from the saw blade and any moving parts. Always use a push stick to feed stock and use a brush for clearing away any chips or sawdust. Use clamps, jigs, or vises to secure workpieces whenever possible.
8. Always double check to ensure saw blade is securely locked, and setup in proper cutting direction before starting.
9. Always follow and use the recommended speed, correct saw blades and/or accessories in accordance with the working material.
10. When starting up any machinery, be sure to allow the blade or spindle to reach full operating speed before beginning to operate the equipment.
11. Always use a clean and properly sharpened blade. Dirty or dull blades are unsafe and can lead to accidents.
12. Do not push or force stock into the cutting blade. The saw will perform better and safer when working at the rate for which it was designed and intended for.
13. Add additional support when cutting stock that does not have a flat cutting surface. Always

hold stock firmly against the fence when ripping, or against the miter gauge when cross-cutting.

14. To minimize risk of injury in the event of kickback, never stand directly in-line with the blade or in the potential kickback path of the workpiece.

15. Avoid working in an awkward or off balanced position. Do not overreach during cutting operation; both feet should always remain on the ground. Never lean over or reach over the blade to pull a workpiece. If needed, use an outfeed support or have an assistant help when ripping larger material.

16. Keep blade guards in place and in working order. If a guard must be removed for maintenance or cleaning, be sure it is properly reattached before using the tool again.

17. Never leave a machine running with the power on when not in use or when unattended.

18. Always use the tools as intended. Improper use of parts and accessories may result in equipment malfunction and/or risk of injury.

19. Never stand on machinery. Serious personal injury could occur if the tool is tipped over or if blade is unintentionally contacted.

20. Always disconnect tool from the power source before servicing or performing any maintenance work such as cleaning or adjustments to the machine. When changing accessories such as a saw blade, it is recommended to unplug the machine to avoid accidently starting up the machine. Never leave a machine running if unattended.

21. Make sure that the switch is in the “OFF” position before plugging the machine into a power source.

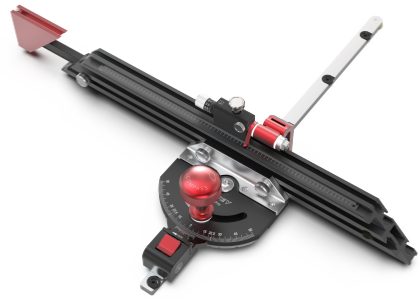
22. Always make sure tool is properly grounded.

4/ Application

The Compass MG-36Pro Miter Gauge is used for guiding a workpiece while making crosscuts or miter cuts.

This tool is intended to be installed on a table saw but can also be used on the other machineries such as a bandsaw, sander or shaper that is equipped with a T-slot (Width of top: 3/4"; width of bottom: 1"; Depth: 3/8"). Always check the machine to ensure that the miter gauge can be properly utilized as there are certain application limitations.

5/Specifications



Model	MG-36Pro
Fence Size (L x W x H)	21-5/8" x 1-3/8" x 2-1/2"(550 x 35 x 66.5 mm)
Max. Crosscut Capacity	36" (915 mm)
Miter Angle Range	-60° ～+60°
Positive Stops	0°, ±15°, ±22.5°, ±30°, ±45°, ±60°
Miter Bar Size (L x W x H)	22" x 3/4" x 3/8" (560 x 19 x 9 mm)
Micro-adjustment Accuracy	Metric / Imperial: 0.02 mm / 0.001"
Dial Cursor Resolution	0.1°
Standard T-Slot Size	Top:3/4" (19.05 mm)
	Bottom:1" (25.4 mm)
	Depth:3/8" (9.525 mm)
Gross / Net Weight	11.6lb (5.27 kg) / 7.6 lb (3.45 kg)

6/ Contents of the Package

Your miter gauge is carefully packaged to avoid any damages during transport. When unpacking the miter gauge from the packaging materials, please carefully inspect to ensure that everything is included as listed below in Fig.1. If you discover that the product is damaged or missing any parts, please immediately call your distributor or Customer Service for assistance.

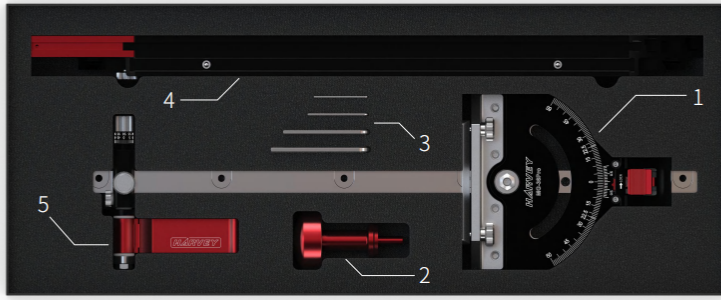
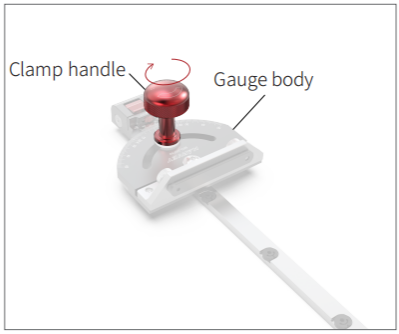


Fig. 1

1	Miter Gauge Body	3	Hex Wrenches	5	Flip Stop
2	Clamp Handle	4	Fence		

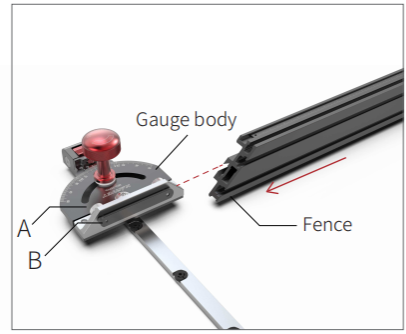
7/Assembling

The general assembling process of the miter gauge should not require any tools and should proceed as follow:



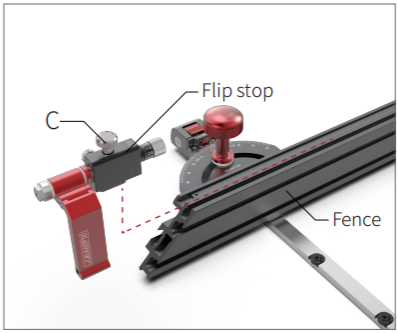
01

To secure and lock the gauge body into place, you will need to install the clamp handle into the gauge body. Locate and install the clamp handle into the threaded hole.



02

To install the fence, slide the fence onto the dovetail lock block (B) on the gauge body. Once the fence is set at the correct position, tighten the two locking knobs (A) to secure the dovetail lock block (B) and fence into place.



03

Next, loosen the flip stop locking knob (C) and slide the flip stop into the upper slot of the fence. Tighten the locking knobs to secure flip stop.

04

Assembling completed.

8/Operations

As shown in Fig.2, slide the assembled miter gauge into the T-slot of your machine by the direction of arrow for use. As listed in specification, please ensure that your T-slot is the appropriate size as this could affect fitment.

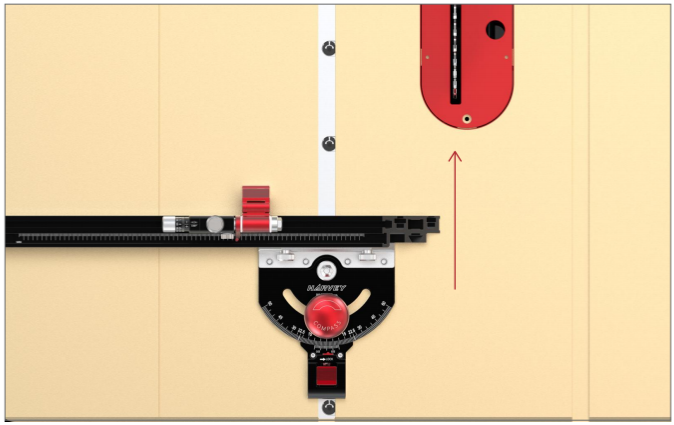


Fig.2

8.1/Adjusting the Miter Bar Fitness

By using a 4 mm hex wrench, the eccentric block (5 in total) can be rotated clockwise or counterclockwise to adjust the gap between the miter bar and the T-slot. Adjust each eccentric block to eliminate the lateral play for smooth sliding in the entire T-slot. It is recommended to adjust both ends of the miter bar to eliminate the lateral play at the ends before adjusting the three center eccentric blocks. You will need to slide the miter bar back and forth within the T-slot (miter slot) to ensure smooth operations throughout the T-slot and ensure correct fitment. As shown in Fig.3.

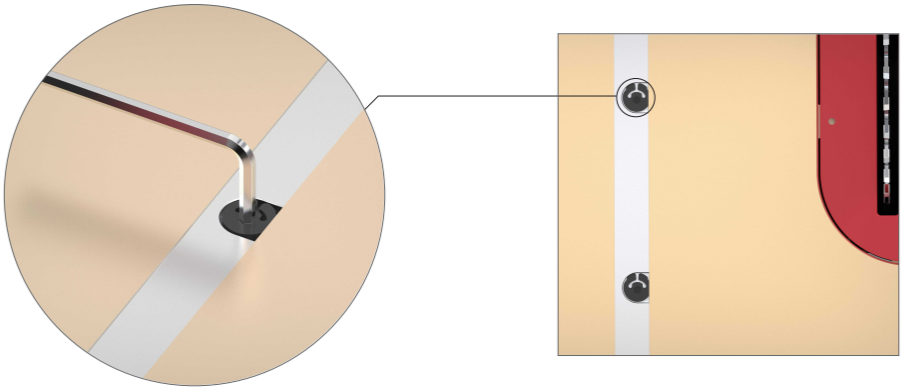
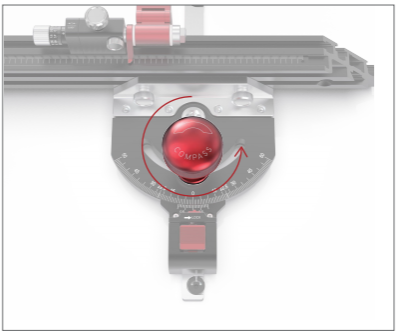


Fig.3

8.2/Two Ways for Adjusting the Miter Angles

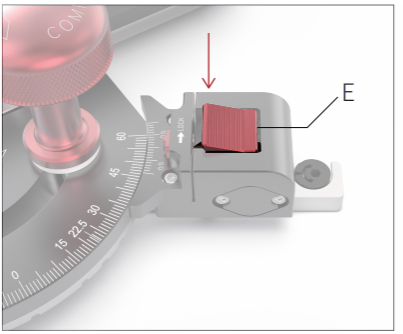
Method 1: Using the positive stops & pin system

The miter gauge has 11 commonly used positive stop locations: 0°, ±15°, ±22.5°, ±30°, ±45° and ±60°.



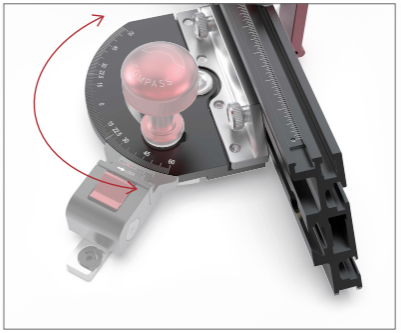
01

To set one of the preset angles, start by loosen the clamp handle to allow the Compass protractor to be rotated.



02

While clamp handle is loosened, press down and hold the button on top of the locating block (E) to disengage the detent pin.



03

Then rotate the miter gauge body and fence to the desired angle while keeping the swing locating block (E) pressed.

04

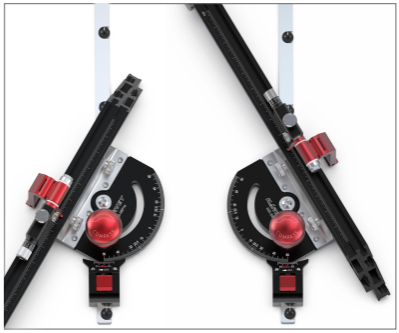
Once you get close to one of the desired preset angles, release the locating block (E) to allow the detent pin to engage with the positive stop location and slightly rotate the miter gauge to allow the pin to properly lock into place.

If done correctly, you will notice that the pin will lock or “snap” into the positive stop automatically. After setting the setting the desired angle, re-tighten the clamp handle to secure the Compass protractor in place.

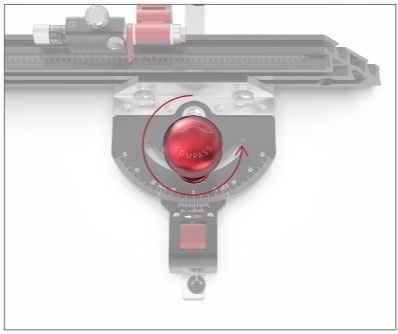
NOTE:

The clamp handle MUST BE TIGHTENED before using the miter gauge. Without the handle secured, the fence will be allowed to pivot or adjusted to different angles.

Method 2: Adjusting the miter angles freely without positive stops

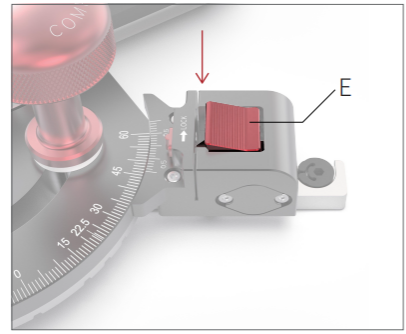


With this metod, you can freely rotate miter gauge to any desired angles ranging from -60° to +60°.



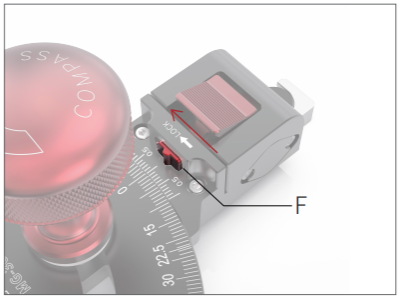
01

First, loosen the clamp handle to allow angle adjustments.



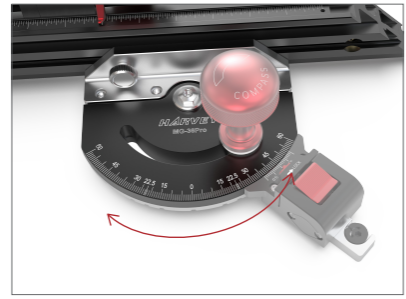
02

Press and hold down the button on the locating block (E) to keep the detent pin disengaged from the Compass protractor.



03

With the button held down, slide the button (F) along the direction of the arrow indicated on the locating block.



04

This will disengage the pin and lock it into place, allow you to freely rotate miter gauge to any desired angles ranging from -60° to +60°.

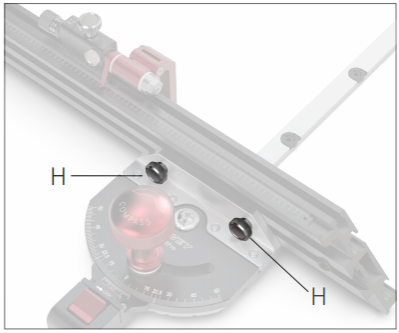
05

Once you' ve achieved the desired angle, re-tighten the clamp handle.

NOTE:
The swing locating block & pin (E) can be released by holding down button and moving the slide button in the opposite direction of the arrow indicated on the locating block. This will unlock and allow the pin to re-engage with the Compass protractor.

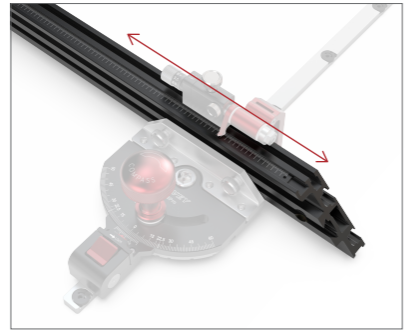
8.3/Using the Fence System

(1) Positioning the crosscut fence



01

To adjust the positioning of the fence, loosen two fence lock knobs (H) to allow the fence to be moved left or right.

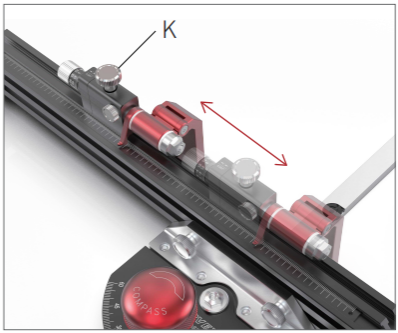


02

Tighten the two fence lock knobs to secure the fence into place.

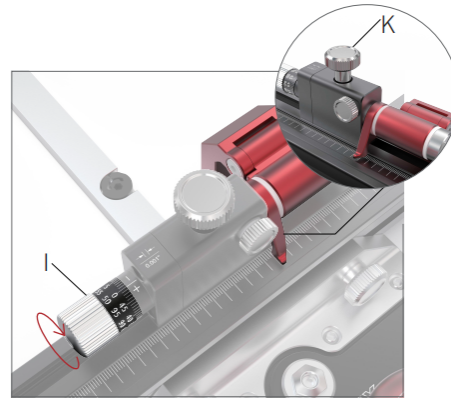
NOTE:
To avoid damage to your tools and equipment, the fence MUST NOT INTERFERE with the blade, The distance from the fence to blade can vary based on the angle of the cut but can also vary from machine to machine (T-slot to blade distance). Always double check your setup before you start operating your machine.

(2) Positioning the flip stop



01

The flip stop assembly can be moved to left or right by loosening the locking knob (K).



02

After tightening the flip stop assembly, you can micro-adjust the position of the flip stop (±3mm / 1/8"). By loosening the knob and rotating the knob (I), you can micro-adjust the flip stop to left or right.

For example:

When the miter gauge is in the left T-slot of the table saw, the flip stop can be moved further away from the blade by rotating in the positive (+) direction OR moved closer to the blade by rotating in the negative (-) direction. Vice versa, when the miter gauge is on the right T-slot of the table saw, then the adjustments are made in reverse or opposite to the left T-slot adjustments. When adjustment is finished, tighten the knob.

NOTE:

- The miter gauge is available in either metric or imperial versions. The version information can be identified by the labels located on the package box.
- For Metric version, a full rotation of the micro-adjustment knob (I) is 1mm, where each increment on the scale ring (J) is 0.02mm.
- For Imperial version, a full rotation of the micro-adjustment knob (I) is 1/20", where each increment on the scale ring (J) is 0.001".
- For any workpiece with a beveled edge, the bevel pin (M) can be used for positioning with no damage to the edge of workpiece as shown in Fig. 4.

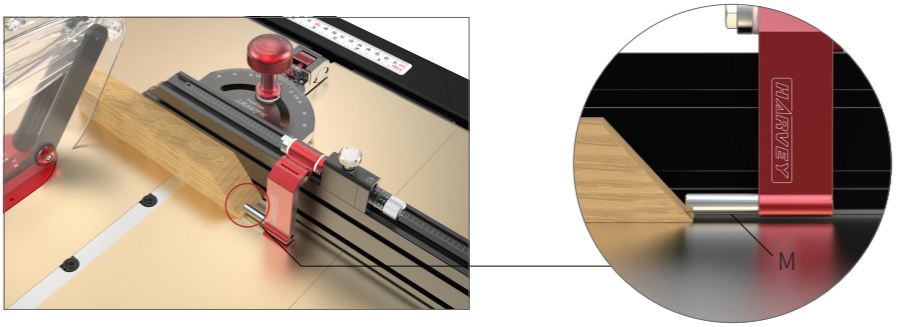
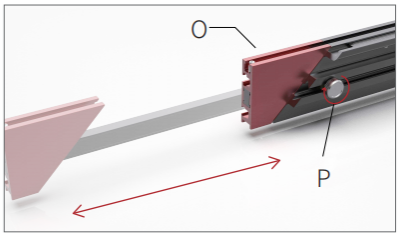


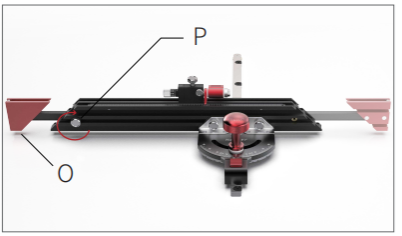
Fig.4

(3)Positioning the extension crosscut fence



a.

By loosening the lock knob (P), the extension crosscut fence (O) can telescope out of the main fence body to a desired distance, and then secure by re-tightening the lock knob (P).



b.

If the extension crosscut fence needs to be relocated to the other side of the fence body, loosen and remove the lock knob (P). Slide the extension crosscut fence (O) off the main fence and slide it in from the other end of the main fence . Re-install the lock knob (P) in the threaded hole on the opposite end of the main fence body.

NOTE:

- The extension crosscut fence' s primary purpose is to support the flip stop at distances wider than the main fence body (up to 36" max capacity).
- By repositioning the extension crosscut fence, this will allow you to utilize the extension crosscut fence and flip stop on the other side of the table saw T-slot.

(4)Positioning the ruler (Fig.5)

To adjust and reposition the ruler scale, simply push the ruler (Q) with your finger to move the ruler to the left or right.

NOTE:

- The ruler is only used to indicate the relative location of the flip stop.
- The distance or relative location of the flip stop can vary depending on the positioning of the fence body (in relation to the blade).

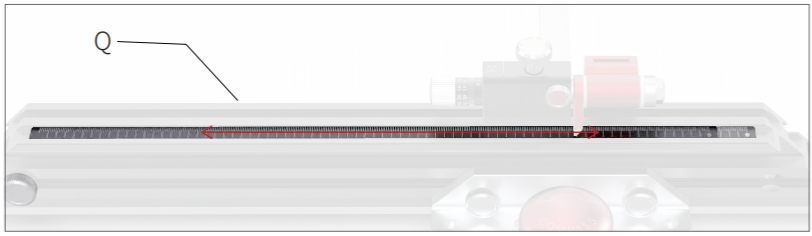
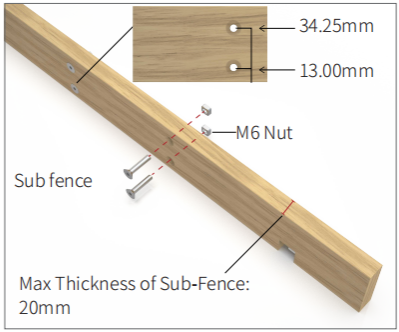


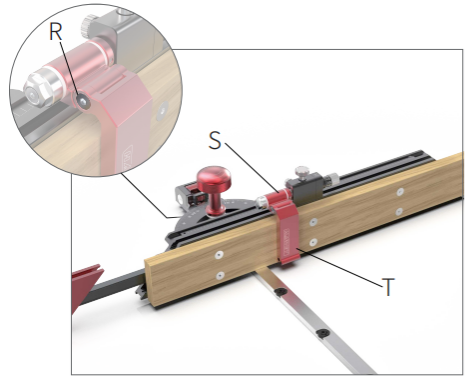
Fig.5

8.4/Making a Sub Fence



01

If needed, users can make and utilize sub-fences for additional support. You can secure the sub-fence onto the aluminum fence body of MG-36Pro by using the countersunk head screw and rectangular nut. We recommend using at least 6 sets of screws and nuts for securing the sub-fence. (The hardware mentioned above can be purchased by yourself or contact a dealer to make a purchase.)



02

To position the flip stop (T) closer to the table surface, loosen the Screw (R) and adjust the Block Holder (S). Once the flip stop height is at desirable height, re-secure the Screw (R).

9/Calibration

The MG-36Pro miter gauge protractor has been factory calibrated to be accurate. However, perpendicularity of the fence and blade can vary from machine to machine and should be checked before using the miter gauge. If any adjustment is necessary, please refer to this section for calibration.

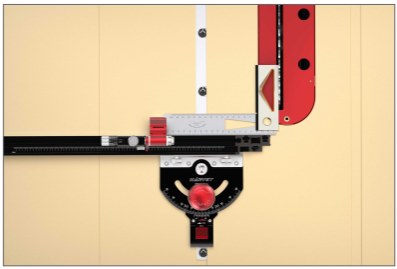
9.1/Fence Perpendicularity (“Squareness”) to Blade

01

For table saws, raise the blade to the highest position and tilt the blade to be perpendicular to the table surface (90°).

02

Set and lock the miter gauge protractor to zero position (0°).



03

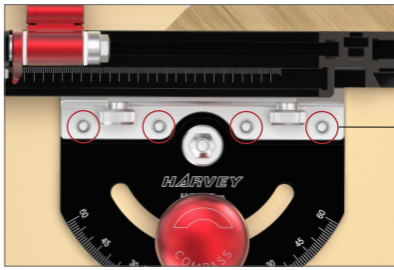
Using a reference square (such as a try square), rest the two sides of the square against the blade and fence face to check for perpendicularity or “squareness”.

04

If there is no gap between the fence face and blade side, you do not need to do any calibration. However, if a gap exists or can be seen, then calibration and further adjustments is needed. Proceed to next step.

NOTE:

The square must not contact or touch the blade teeth, otherwise the calibration accuracy may be affected.



05

Loosen four screws (U) supporting the fence body. With the screws loosen, adjust the miter gauge fence slightly to ensure the fence face is perpendicular or “squared” with the blade. A reference square is needed for this step. Once the fence is perpendicular to blade, re-tighten the four screws (U) to secure the fence body into place.

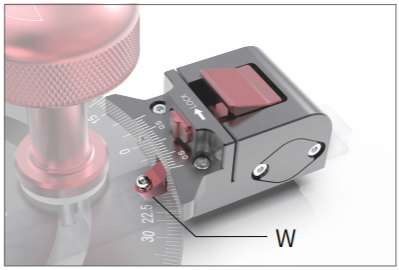
06

Repeat Step 3 to double check and ensure fence face and blade are perpendicular to each other (“squared”). If done correctly, then your miter gauge is ready for use!

9.2/Compass Miter Gauge Protractor Adjustment

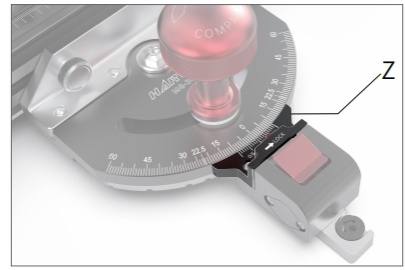
This calibration process is only needed if any deviation does occur between the indicator and the graduation on the dial (visual inspection at 0°).

As shown below,there are three possible reasons that could cause deviation:



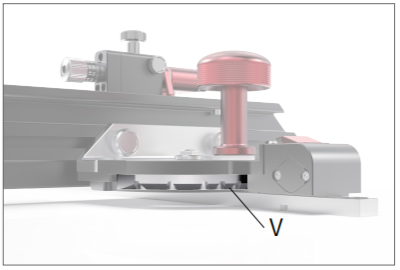
01

Looseness of the ball locating pin (W).



02

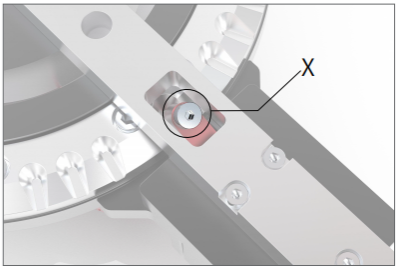
Looseness and offset of the dial cursor (Z).



03

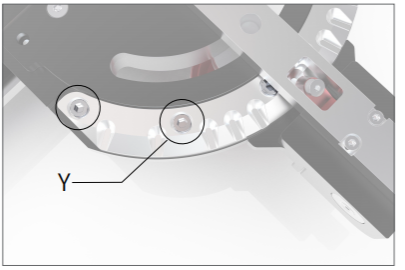
Looseness and offset of the arc locating block (V).

To adjust, refer to the following steps below



a.

Check if the ball locating pin set screw (X) is loose (If not loose, proceed to next step). Tighten the set screw (X) if it is loose, then re-check if any deviation occurs between the indicator and the graduation at 0°, if the deviation still exists, proceed to Step b.



b.

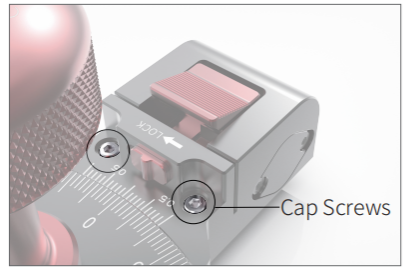
Check whether the set screw (Y) on the arc positioning block is loose. If it is loose, tighten it.

c.

If not done so, slide the button to unlock the pin from the swinging locating block (Detent pin engaged; the positive stops can be used now). Adjust the gauge body to zero (0°) and ensure that the ball locating pin is effectively engaged in the 0° groove of the arc locating block, then tighten the clamp handle.

e.

Calibrate the perpendicularity between fence and blade according to Section 9.1 of Calibration.



d.

Loosen the two cap screws on the dial cursor (Z), align the 0° indicator with the graduation on the dial and tighten the dial cursor (Z).

10/Maintenance and Care

a.

After each use, wipe and clean the miter gauge to be free of any dust or debris. If not in use, store in a dry and safe location.

b.

Periodically check the perpendicularity between fence and blade. Refer to Section 9.1 of Calibration for more information

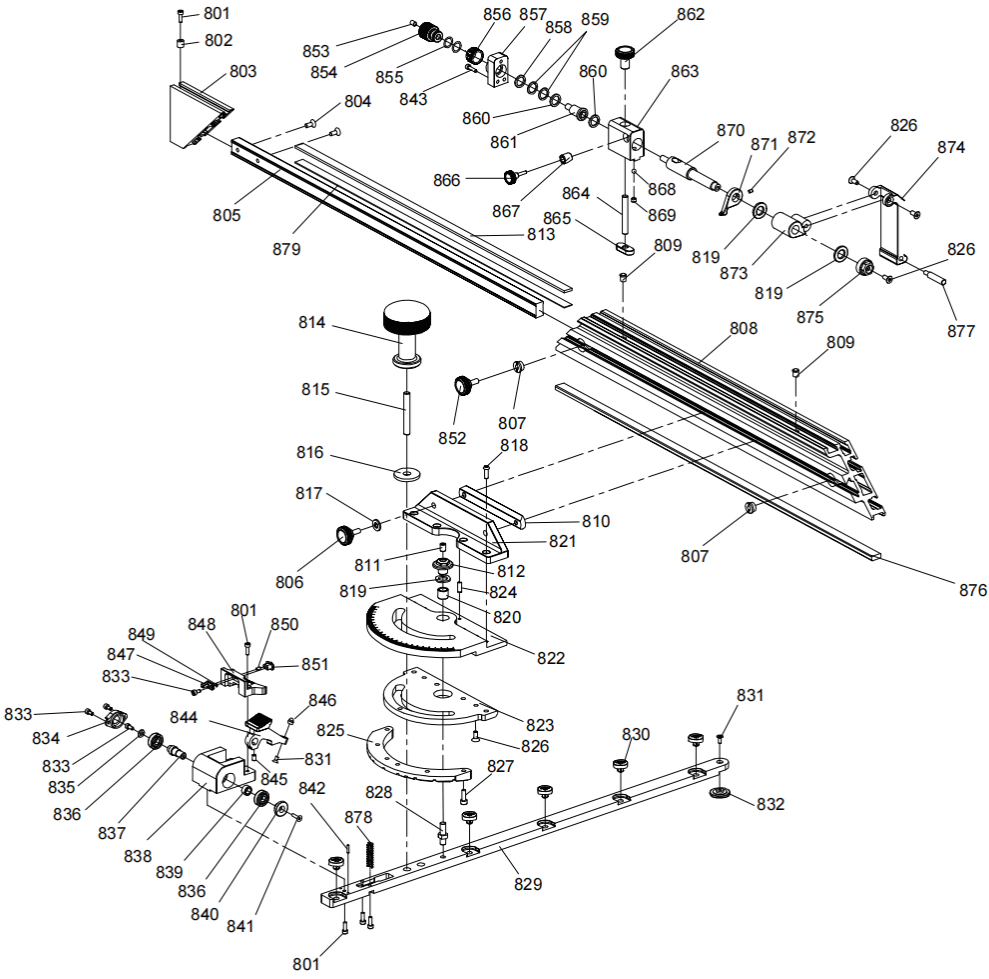
c.

Periodically check for any deviation that may occur between the indicator and the graduation on the dial (visual inspection at 0°). Refer to Section 9.2 of Calibration for more information.

d.

Periodically check the surface of the ball locating pin and the groove edge of arc locating block for any deformation. If any burrs occur, lightly polish them with a piece of fine abrasive.

Exploded View and Parts List



REF	DESCRIPTION
801	Cap screw M3-0.5x10
802	Nylon block
803	Extension crosscut fence
804	Flat HD screw M4-0.7x12
805	Guide bar
806	Lock knob M5-0.8
807	Nut seat
808	Crosscut fence
809	Spring bearing
810	Dovetail lock block
811	Set screw M6-1x8
812	Lock nut
813	Ruler
814	Handle M8-1.25
815	Set screw M8-1.25x45
816	Plastic washer 8
817	Flat big washer 5
818	Pan HD screw M4-0.7x12
819	Plastic washer
820	Pivot bushing
821	Fence bracket
822	Miter gauge body
823	Base board
824	Round pin 3x6
825	Angle locating block
826	Flat HD screw M4-0.7x10
827	Cap screw M4-0.7x12
828	Axis of rotation
829	Miter bar
830	Eccentric block
831	Flat HD screw M3-0.5x8
832	Miter ring
833	Cap screw M3-0.5x6
834	Bearing outer ring gland
835	Big flat washer 3
836	Bearing 619/7
837	Position block pivot pin
838	Position block
839	Bushing

REF	DESCRIPTION
840	Bearing inner ring gland
841	Flat HD screw M3-0.5x12
842	Round pin 2
843	Cap screw M3-0.5x12
844	Swing locating block
845	Set screw M4-0.7x6
846	Ball locating pin
847	Limit stop
848	Dial cursor
849	O-ring
850	Round pin 2
851	Slide button
852	Lock knob M5-0.8
853	Set screw M6-1x10
854	Fine tuning knob
855	O ring d=8
856	Scale ring
857	Adjust nut holder
858	Copper gasket
859	Wave washer
860	Nylon washer
861	Trimming nut
862	Flip stop lock knob
863	Fine tune slider
864	Set screw M6-1x45
865	Lock block
866	Shaft lock knob
867	Lock block for shaft
868	Steel ball 4
869	Set screw M5-0.8x6
870	Fine tuning shaft
871	Point
872	Set screw M3-0.5x4
873	Block holder
874	Flip stop
875	Lock nut
876	Slider
877	Stop pin
878	Spring
879	Spacer

中文版本

1/前言

恭喜您购买了全新的MG-36Pro量角器!十分感谢您对海威的支持,并且希望该产品能够在未来为您服务多年!

本说明书包含对操作人员的要求、产品的适用环境以及正确安全的调节方法,但不包含全部的安全要求。在使用之前,操作人员必须仔细阅读并理解本说明书,才能有效的避免错误的安装和操作,保证人身安全。

如果您对我们的产品有任何疑问或者需要更多的信息,请联系海威服务团队寻求帮助。

海威一直在努力提升和改进产品的路上,我们保留在必要时修改参数、设计、操作和维护说明的权利,无需事先通知。

2/质保信息

2.1 质保期限:

一年

2.2 购买凭证:

请保留有效的购买凭证,以作保修及维修之用。

2.3 质保范围:

自客户购买本产品之日起,本公司将向原始零售客户提供为期1年的质保服务,在质保期内,产品因质量缺陷造成的维修是免费的。

以下原因造成的事故、故障等在保修范围以外:

- ◆ 滥用、误用、疏忽引起的事故。
- ◆ 缺乏维护导致的故障。
- ◆ 非授权维修改造。
- ◆ 正常磨损部件。
- ◆ 天灾、火灾、爆炸引起的故障。
- ◆ 使用非海威原装零部件。

本公司在任何情况下均不对因使用本公司产品而导致的死亡、人身伤害和财产损失负责。

如需使用此质保服务,请自费将产品和有效的购买凭证退回给我们。如果在质保期限内,任何部件经过检测确认出现工艺或材质的缺陷,我们将免费进行修理或者更换。

3/安全条例

3.1 不要在疲劳或者受到酒精和药物的影响下操作台锯。

3.2 工作区域应保持整洁干净。

3.3 旁观者应与设备保持一定的距离，确保儿童远离设备。

3.4 极细的锯切灰尘是潜在的危险，应在通风良好的环境下工作，尽可能地使用集尘设备并佩戴面部防护器具。

3.5 使用台锯前，取下领带，戒指，手表和其他首饰，避免穿宽松的衣服，束起长发。推荐使用防滑鞋和防滑地坪。

3.6 在开机前移除所有扳手等调节工具。

3.7 手部远离锯片，使用推把进行送料。

3.8 使用推荐的锯切速度、锯片和配件。

3.9 在开始锯切前，确保锯片已经达到完全的运行速度。

3.10 总是使用干净和锋利的锯片；锯片变脏或变钝会引发事故。

3.11 不要过度用力将木料推入旋转的锯片中。台锯在预先设计的送料速率下才能获得最佳的性能和安全。

3.12 在锯切表面不平整的木料时，使用合适的支撑件。纵切时，总是将木料紧贴靠山；横切时，总是将木料紧贴量角器。

3.13 为了尽可能减小木料回弹造成意外事故的风险，请勿站在锯片的运动方向上或者其他木料回弹的潜在路径上。

3.14 操作设备时，全程保持正确的站姿和稳定的重心。在进行长木料的纵切时，请求他人协助或者使用后延伸工作台。

3.15 操作台锯前，确保锯片护罩安装到位并且状态正常。

3.16 在设备不工作时，请切断电源；在设备闲置时和进行维护或清理之前，请切断电源。

3.17 如果使用了自动送料器，那么在关闭台锯前，需先关闭自动送料器。

3.18 请使用说明书推荐的配件，其他配件可能存在潜在的风险。

3.19 切勿站在设备上，设备倾倒会导致严重的伤害。

3.20 确保设备在接入电源前，开关处于“OFF”位置。

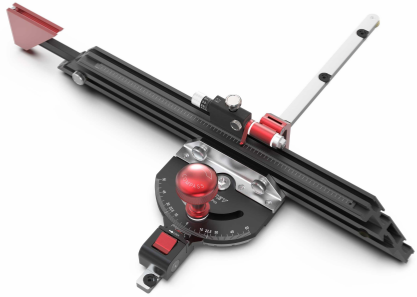
3.21 确保设备正确接地。

4/适用范围

该量角器主要用于工件的横切和斜切的定位。

该量角器主要适用于台锯，针对带锯、砂光机、铣床等台面配有T型槽（尺寸：顶部3/4"，底部1"，深度3/8"）的设备也可使用，但应用可能存在局限性。

5/技术参数



型号	MG-36Pro
靠山尺寸	550mm(长) x 35mm(宽) x 66.5mm(高)
最大横切宽度	915mm
角度区间	-60~+60°
快速定位角度	0°, ±15°, ±22.5°, ±30°, ±45°, ±60°
导杆尺寸	560mm(长) x 19mm(宽) x 9mm(高)
挡块微调精度	公制:0.02mm
游标读数精度	0.1°
适配T型槽尺寸	顶部19.05mm, 底部25.4mm, 深度9.525mm
毛重/净重	5.27kg/3.45kg

6/拆包

拆开量角器包装,根据图 1 和清单明细检查部件是否齐全或损坏,如有受损或者缺失,请立即与经销商联系。

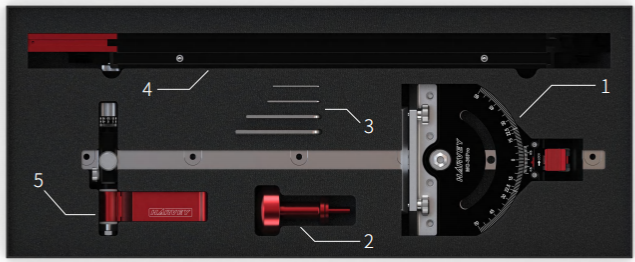


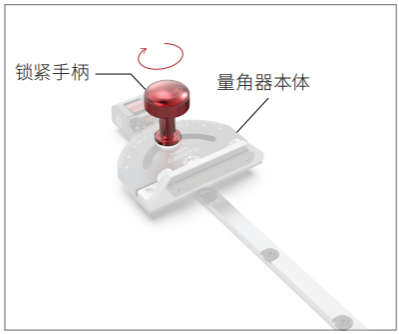
图1

1. 量角器本体　　3. 内六角扳手　　5. 定位挡块

2. 锁紧手柄　　4. 快拆靠山

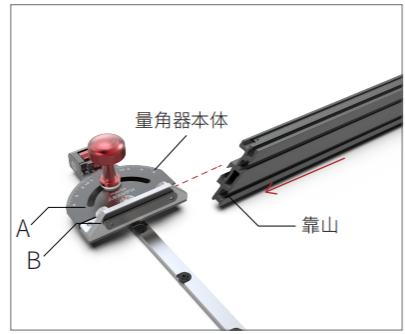
7/组装

量角器的组装不需要使用任何工具，按照如下步骤进行:



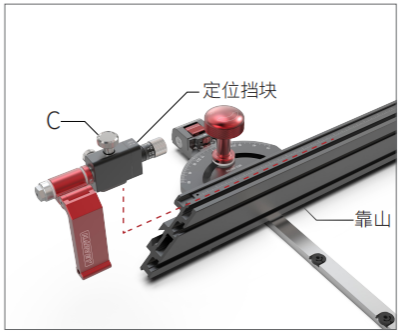
第一步

旋入锁紧手柄，锁紧量角器本体。



第二步

将靠山滑入量角器本体，通过旋钮 A 和靠山燕尾锁紧块 B 进行固定。



第三步

松开挡块锁紧旋钮 C，将定位挡块滑入靠山并锁紧。

第四步

完成组装。

8/操作运用

将组装完毕的量角器按箭头所指方向滑入台锯的 T 型槽中，如图 2所示。

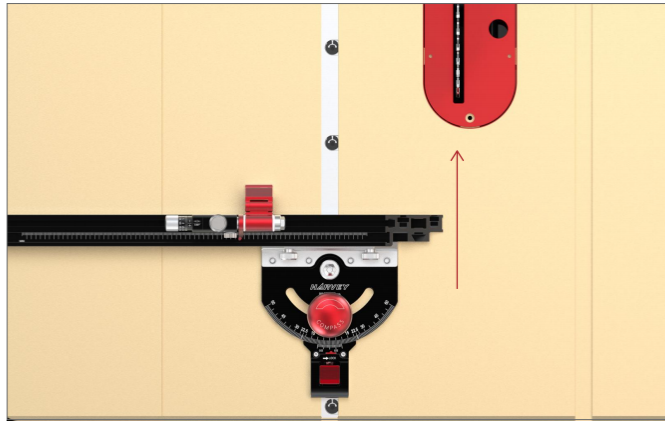


图 2

8.1/调节导杆与T型槽的间隙

用4mm内六角扳手可以直接顺时针或逆时针旋转偏心块，从而调整导杆与T型槽之间的间隙，经过仔细调整，您可以消除间隙，但仍能在整个T槽平顺滑动，如图 3所示。

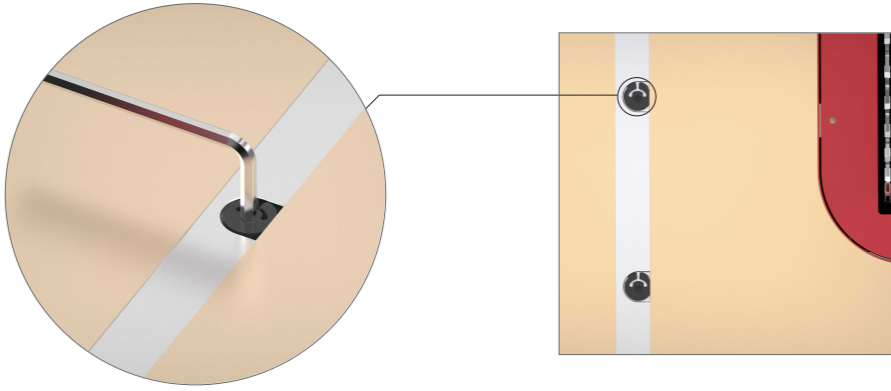
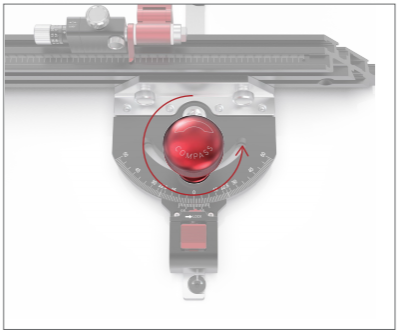


图 3

8.2/斜切角度的定位

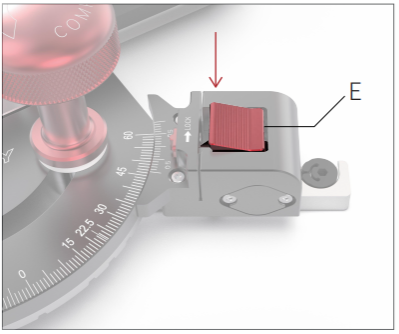
(1)快速角度定位

此量角器提供11种常用角度的快速限位，
分别为0°、±15°、±22.5°、±30°、±45°和±60°。



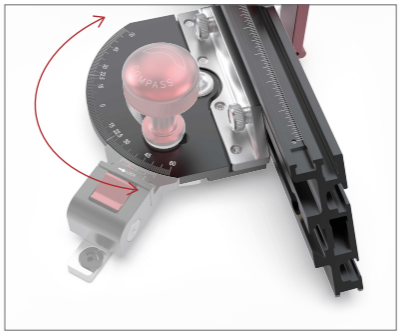
第一步

松开锁紧手柄。



第二步

按下按钮E。



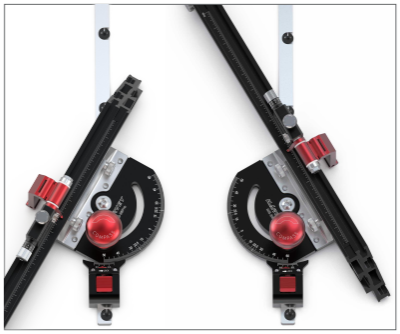
第三步

转动量角器本体。

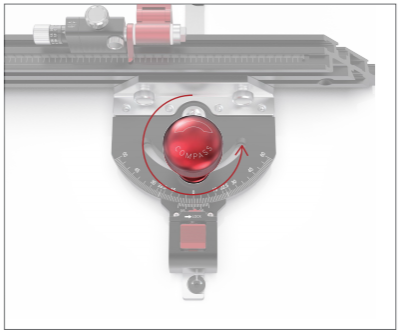
第四步，当接近所需角度时，松开按钮E，继续转动量角器，量角器会自动锁定，轻微摆动靠山后，旋紧锁紧手柄。

注意：在使用量角器前，必须确保锁紧把手已经被有效锁紧。如果把手未锁紧，会导致靠山发生转动。

(2)任意角度定位

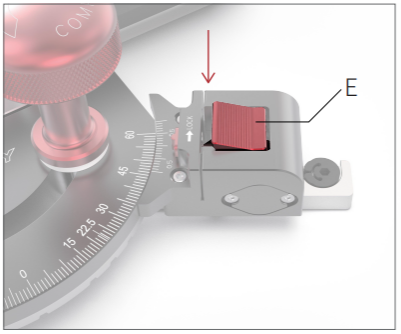


在该操作下，可实现
在-60°至+60°内任意转动量角器。



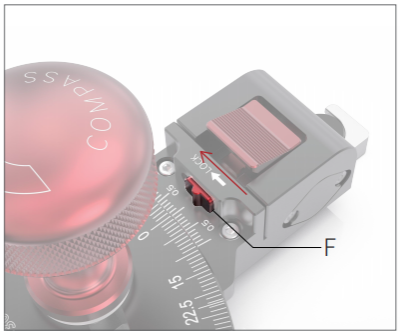
第一步

松开锁紧手柄。



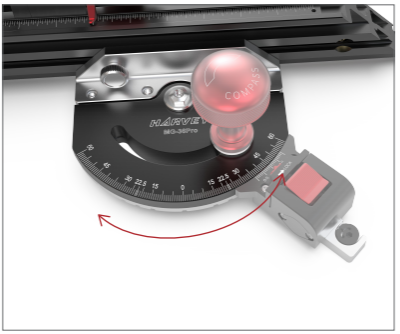
第二步

按下按钮E同时。



第三步

按箭头指示方向推动限位按钮F至极限位置。



第四步

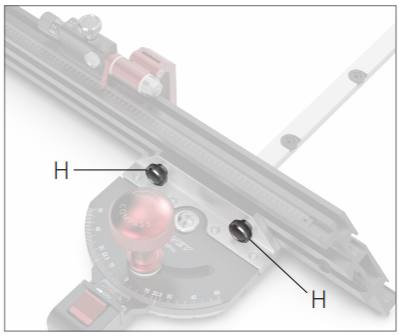
转动量角器本体。

第五步，旋紧锁紧手柄。(如需切换快速角度定位，将限位旋钮推动到相反方向，即可解除锁定。)

8.3/靠山系统的调节

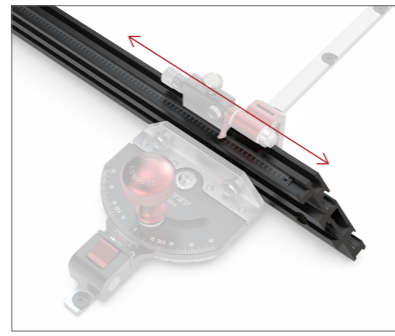
(1)靠山的调节

注意:靠山不能与锯片发生干涉,以避免损坏靠山。



第一步

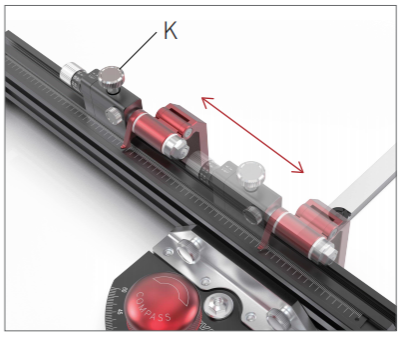
松开两个靠山锁紧旋钮H。



第二步

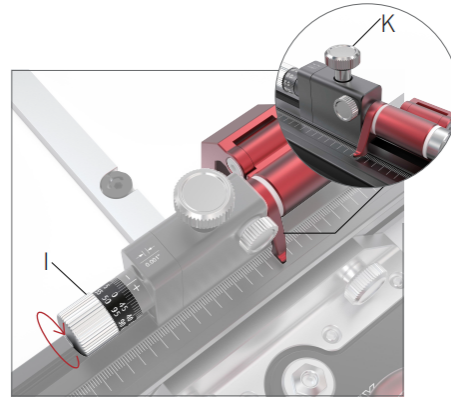
可左右移动靠山。

(2)定位挡块的调节



第一步

松开锁紧旋钮K,可左右移动定位挡块组件。



第二步

该定位挡块组件锁紧后,可以微调定位挡块的位置(±3mm)。松开旋钮K,旋转旋钮I,可左右移动挡块。

举例:当量角器位于台锯左侧台面时,向“+”方向转动,可使挡块远离锯片;向“-”方向转动,可使挡块靠近锯片;当量角器位于台锯右侧时,则相反。调整完成后,锁紧旋钮K。

注意：

- 量角器分为公制和英制两个版本，具体请参见产品包装盒的侧面标识。
- 针对公制版量角器，微调旋钮转动一整圈的增量为1mm，刻度环(I)上每转动一格的增量为0.02mm。
- 针对英制版量角器，微调旋钮转动一整圈的增量为1/20"，刻度环(J)上每转动一格的增量为0.001"。
- 定位销M用于斜面特定位置的定位，如图 4所示，可在木料尖角不受到损坏的情况下进行精准定位。

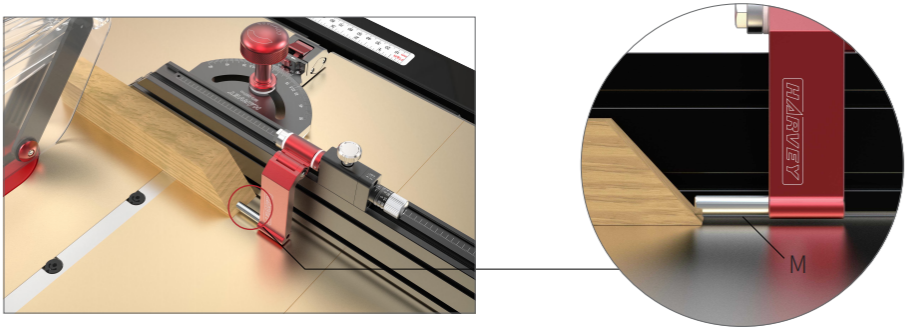
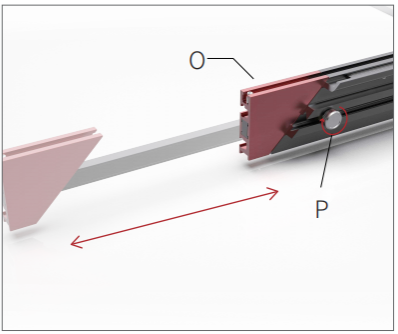


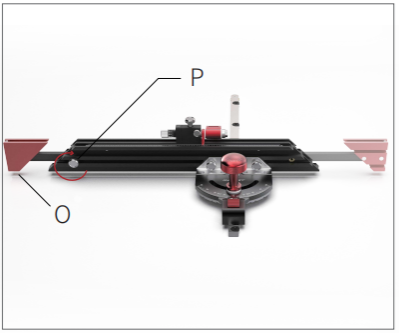
图 4

(3)延伸靠山的调节



a.

松开锁紧旋钮P，可根据需要调整延伸靠山O的位置，调节完成后重新锁紧旋钮P。



b.

如需将延伸靠山重新定位至靠山主体的另一侧，请松开并取下锁紧旋钮P。将延伸靠山O从靠山主体上抽离，然后从靠山主体另一端滑入。将锁紧旋钮P重新安装在靠山主体另一端的螺纹孔中。

(4)刻度尺的调节，如图 5所示。

按压靠山刻度尺Q，可左右移动刻度尺位置。

注意：刻度尺仅用于表示定位挡块的相对位置。

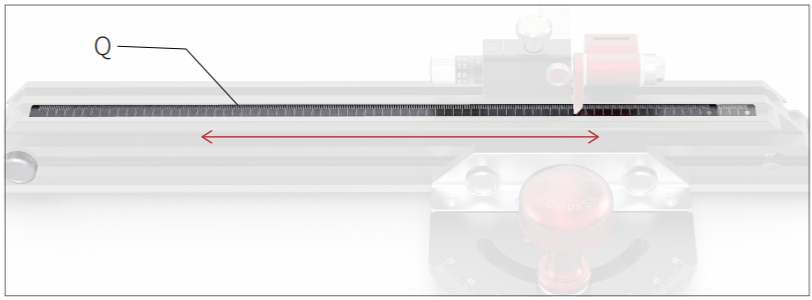
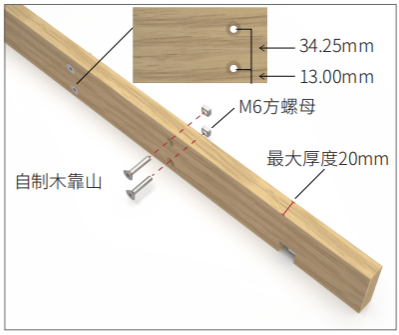


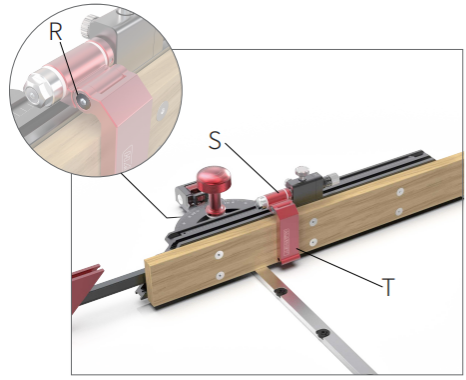
图 5

8.4/自制靠山的使用和安装



第一步

用户可根据使用场景需要自制木靠山，使用M6沉头螺钉及M6螺母（五金件可自行购买或者联系经销商进行购买）固定在铝靠山上，如上图所示（建议使用6组标准件进行固定）。



第二步

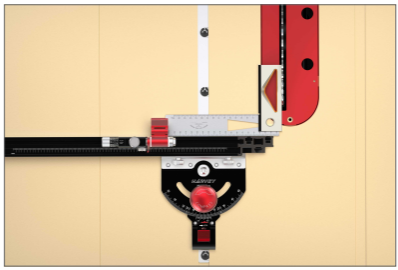
松开螺栓R，调节挡块固定座S,通过调节挡块T可以接近台板的表面，调节挡块至所需高度后，重新锁紧螺栓R。

9/校准

量角器在出厂前已完成校准，由于设备差异，在使用前，须复核靠山与锯片的垂直度。

9.1/靠山与锯片垂直度的校准

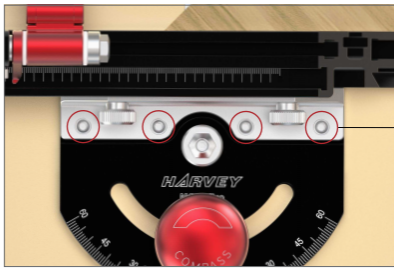
第一步，将锯片调整到90°位置最高点。



第二步，在0°位置锁紧量角器本体。

第三步

将直角尺的两边分别靠住锯片和靠山。



第四步，观察靠山与直角尺侧边之间是否存在间隙。如无间隙，则表示角度准确，无需校准；如有间隙，则按照下一步骤进行校准。

注意：直角尺切勿与锯齿接触，以免影响校准精度。

第五步

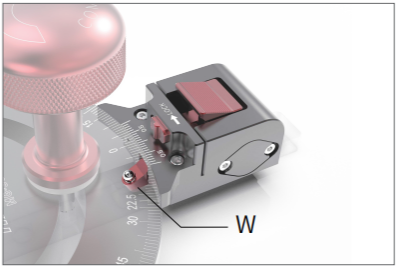
松开四颗内六角螺钉U，轻微转动靠山，使其与直角尺侧边完全贴合，然后锁紧四颗六角螺钉U，完成校准。

第六步，重复步骤3进行复核。

9.2/量角器角度调节校准

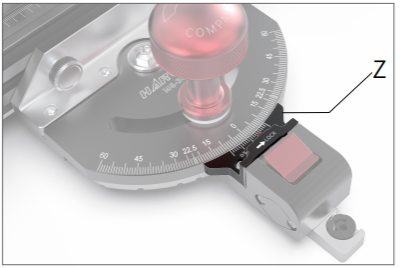
此校准只在游标与刻度盘刻度线发生偏差时(在0°位置目测)才需要进行。

如下所示，可能导致偏差的原因有三种：



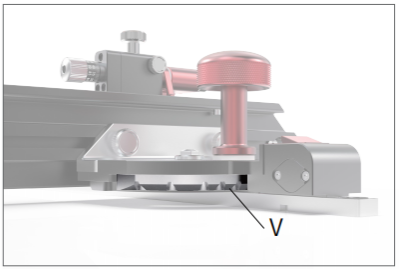
1.

球形定位销W出现松动。



2.

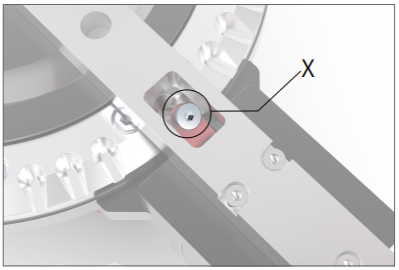
刻度盘游标Z出现松动位移。



3.

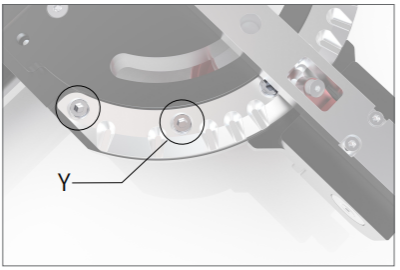
圆弧定位块V出现松动位移。

按照如下步骤进行调整：



a.

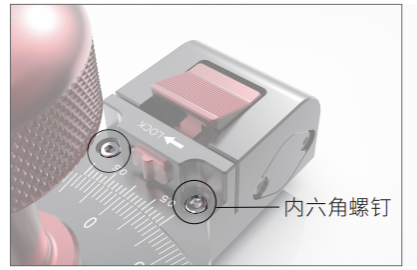
检查球形定位销W固定螺钉X是否松动。如无松动，进入步骤b；如存在松动，锁紧球形定位销后，在0°位置重复定位，检查指针与刻度线是否对齐，如仍然存在偏差，进入步骤b。



b.

检查圆弧定位快V上的锁紧螺钉Y是否松动，如松动，将其锁紧。

c.解除摆动定位块的锁定(摆动定位块处于快速定位状态),在量角器处于0°位置时,将球形定位销有效卡入圆弧定位快0°槽位中,并将锁紧把手有效锁紧。



d.

松开刻度盘游标Z上方的内六角螺钉,将游标指针的0刻度线和刻度盘上的0刻度线对齐,将刻度盘游标锁紧。

e.参考章节9.1,校准靠山与锯片的垂直度。

10/维护

a.

每次使用后,清理量角器上的灰尘和木屑。如长时间不使用,请存放于干燥处。

b.

定期检查靠山与锯片的垂直度,参考章节9.1。

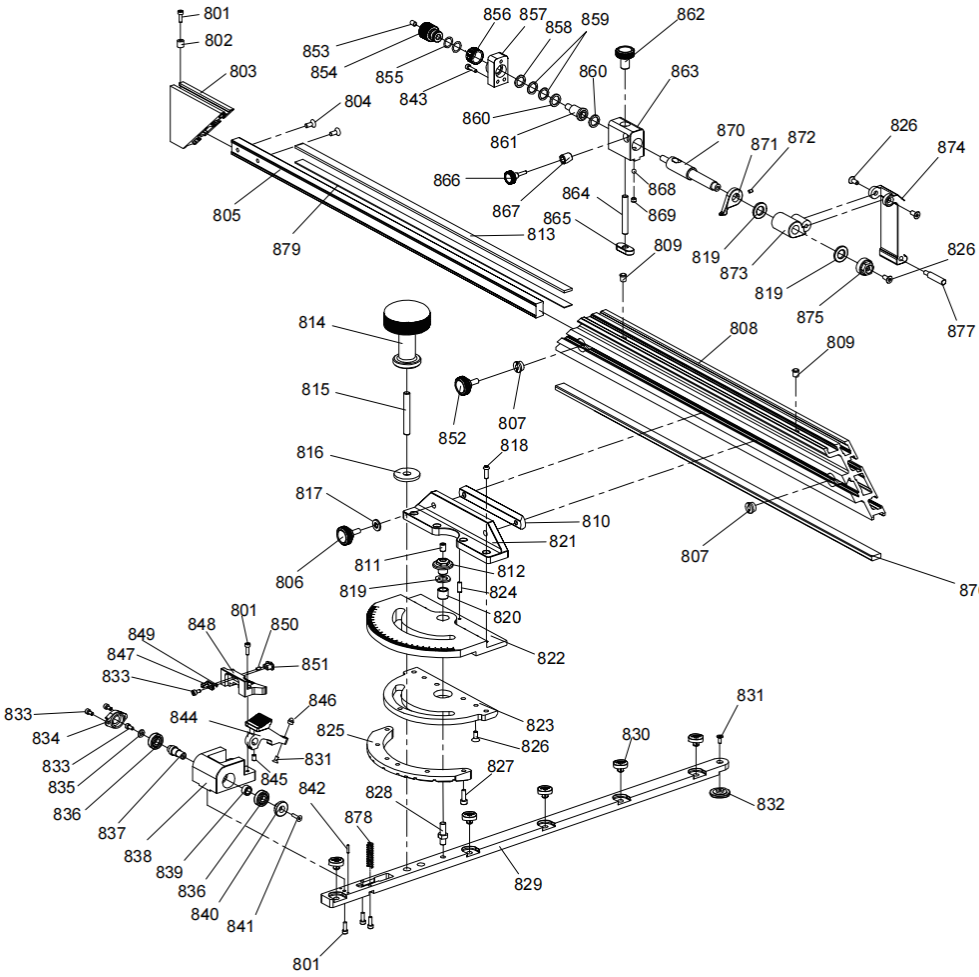
c.

定期检查游标与刻度盘刻度线是否对齐(在0°位置目测),参考章节9.2。

d.

定期检查球形定位销球面和圆弧定位块凹槽边缘是否出现毛刺,如出现毛刺,使用细砂纸打磨光滑。

爆炸图和部件清单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编号	名称
801	内六角圆柱头螺钉 M3-0.5x10
802	尼龙垫高柱
803	延伸靠山
804	内六角沉头螺钉 M4-0.7x12
805	导杆
806	锁紧旋钮 M5-0.8
807	锁紧螺母座
808	主靠山
809	球头柱塞
810	燕尾锁紧块
811	内六角凹端紧定螺钉 M6-1x8
812	锁紧螺母
813	刻度尺
814	锁紧手柄 M8-1.25
815	内六角凹端紧定螺钉 M8-1.25x45
816	特氟龙垫片 8
817	加大平垫圈 5
818	内六角平原头螺钉 M4-0.7x12
819	垫片
820	铜套
821	靠尺固定板
822	刻度盘
823	刻度盘底板
824	圆柱销 3x6
825	圆弧定位块
826	内六角沉头螺钉 M4-0.7x10
827	内六角圆柱头螺钉 M4-0.7x12
828	旋转轴
829	滑杆
830	偏心块
831	内六角沉头螺钉 M3-0.5x8
832	挡环
833	内六角圆柱头螺钉 M3-0.5x6
834	轴承外圈压盖
835	加大平垫圈 3
836	轴承 619/7
837	定位块转轴
838	定位固定座
839	衬套

编号	名称
840	轴承内圈压盖
841	内六角沉头螺钉 M3-0.5x12
842	圆柱销 2
843	内六角圆柱头螺钉 M3-0.5x12
844	摆动定位块
845	内六角凹端紧定螺钉 M4-0.7x6
846	球形定位销
847	限位挡块
848	游标
849	O型圈
850	圆柱销 2
851	滑动按钮
852	锁紧旋钮
853	内六角凹端紧定螺钉 M6-1x10
854	微调旋钮
855	O 型圈
856	刻度环
857	调整螺母固定座
858	铜垫片
859	波形垫圈
860	尼龙垫圈
861	微调螺母
862	挡块锁紧旋钮
863	微调滑块
864	内六角凹端紧定螺钉 M6-1x45
865	锁紧块
866	微调锁紧旋钮
867	调整轴锁紧块
868	钢球 4
869	缓冲螺丝 M5-0.8x6
870	微调调整轴
871	指针
872	内六角凹端紧定螺钉 M3-0.5x4
873	挡块固定座
874	挡块
875	锁紧螺母
876	贴条
877	定位销
878	弹簧
879	贴片

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