HARVEY

BIG EYE

B-PM Big Eye Intelligent Position Manager

Revision A (2026-01-30)

298009101

Table of Contents

目录

1. Introduction

Thank you for choosing the Harvey B-PM Big Eye Intelligent Position Manager.

This manual provides essential information regarding installation, operation, calibration, maintenance, and safety requirements. To ensure proper use and to prevent personal injury or equipment damage, please read this manual carefully before installing or operating the product.

This manual does not cover every possible safety condition. Users must follow all applicable safety regulations and safe operating practices when using table saw equipment. This product is an accessory and does not replace the table saw manufacturer's operating manual. Please retain a copy of this manual for future reference.

2. Warranty Information

Warranty Period

Two (2) years from the date of original retail purchase.

Proof of Purchase

A valid proof of purchase is required for all warranty claims. Please retain your receipt.

Warranty Coverage

Harvey provides a two-year limited warranty to the original retail purchaser against defects in materials and workmanship. During the warranty period, defective components will be repaired or replaced at no charge at Harvey's discretion. This warranty is non-transferable and applies only to the original purchaser.

Warranty Exclusions

This warranty does not cover:

- Damage caused by misuse, abuse, or neglect
- Improper installation or maintenance

- Unauthorized repairs or modifications
- Normal wear components
- Damage caused by accidents, fire, natural disasters, or other force majeure events

Warranty coverage applies only to properly installed and maintained equipment used for its intended purpose. To obtain warranty service, contact Harvey Customer Support with proof of purchase and product serial number.

3. Safety Instructions

Intended Use

The B-PM is a digital measurement and positioning system designed exclusively for Harvey table saws equipped with the Big Eye fence system (Models: B-36 and B-52).

The system is designed to:

- Display fence position
- Display blade angle
- Assist with measurement and positioning

The B-PM does not control the saw and is not a safety device. It does not prevent kickback, blade contact, or mechanical failure. It does not replace proper saw alignment, blade guards, or safe operating procedures.

Use of any purpose other than described in this manual is considered improper use and may result in serious injury, equipment damage, or voiding of warranty.

General Safety Warnings

WARNING — Risk of Serious Injury

Failure to follow these instructions may result in serious injury.

- Disconnect power to the table saw before installing or servicing this product.
- Never install or adjust components while the blade is rotating.

- Always ensure the saw blade has come to a complete stop before making adjustments.
- Always lock the fence and rail before making a cut.
- Never rely solely on digital readouts for safety-critical adjustments.
- Verify all critical measurements using independent measuring tools when precision is required.
- Keep hands clear of blade and moving components at all times.
- Always wear appropriate personal protective equipment (PPE), including eye and hearing protections, when operating table saw equipment.

The operator is responsible for safe machine operation.

Installation Safety

CAUTION — Improper Installation May Affect Safety and Accuracy

- Install only on compatible Harvey table saw models.
- Ensure all fasteners are properly tightened.
- Route cables away from moving parts.
- Do not modify components.
- Do not drill or alter the saw structure unless specifically instructed.

Improper installation may cause inaccurate readings or unsafe operation.

Electrical Safety

CAUTION — Electrical Hazard

- Use only a certified 5V / 1A USB power adapter.
- Adapter must be certified (UL / CE depending on market)
- Do not use quick-charge or high-output adapters.
- Do not connect to industrial USB power hubs or higher voltage power supplies.
- Do not use damaged cables.
- Do not expose electronics to moisture.

- Disconnect from power before servicing.
- Do not disassemble electronic components.
- Service must be performed by authorized personnel unless specifically instructed.

Operational Safety

WARNING — Measurement System Limitations

Digital measurements may be affected by:

- Improper calibration
- Mechanical misalignment
- Fence deflection
- Blade runout
- Vibration
- Lighting conditions
- Bluetooth interruption
- Electromagnetic interference from nearby industrial equipment

Wireless performance may be affected by electromagnetic interference (EMI) from motors, dust collectors, variable frequency drives, or other industrial equipment operating in close proximity.

Before each operation:

- Confirm calibration
- Verify blade squareness
- Confirm fence locking
- Perform a test cut when high precision is required

Failure to verify setup may result in inaccurate cuts or unsafe conditions.

Calibration Safety

Calibration is required:

- Before first use
- After blade replacement
- After fence replacement
- After mechanical adjustments

Incorrect calibration may result in inaccurate measurements. Do not operate the saw if calibration cannot be completed successfully.

Battery Safety

- Do not expose batteries to temperatures above 50°C (122°F).
- Do not puncture, crush, or incinerate the battery.
- Charge only using specified charging method.
- Do not leave device charging unattended in hazardous environments.
- Do not expose to water or high humidity.
- Do not use if damaged.
- Discontinue use immediately if the battery shows signs of swelling, overheating, or leakage.
- Do not attempt to replace the internal battery. Service must be performed by authorized personnel unless specifically instructed.

Disposal of electronic components and batteries in accordance with local regulations.

Maintenance and Inspection

- Inspect mounting hardware regularly.
- Ensure camera lens remains clean, in focus, and unobstructed.
- Ensure the angle gauge is securely mounted.
- Perform regular calibration as recommended.

Do not use the product if components are loose, damaged, or malfunctioning.

Limitation of Liability Statement

This product is a measurement aid only.

Harvey Industries International assumes no liability for injury, damage, or loss resulting from improper installation, misuse, failure to follow instructions, improper calibration, unsafe machine operation, or use outside intended application.

4. Product Introduction

4.1 Product Description

The B-PM Big Eye Intelligent Position Manager is a precision digital positioning system designed exclusively for Harvey table saws equipped with the Big Eye fence system (Model: B-36 and B-52). The system integrates:

- Digital imaging technology for fence position tracking
- A 5-inch touchscreen display
- An Anti-Vibration Digital Angle Gauge
- A fine-adjustment mechanism for precision fence control

The system provides real-time readouts of:

- Rip cut width
- Blade adjustment angle

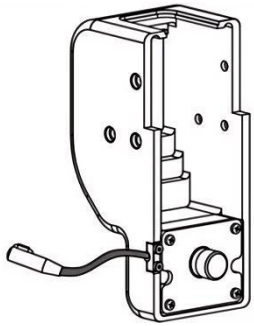
Compatibility Notice

This product is designed exclusively for Harvey table saws equipped with the Big Eye fence system. For other applications, contact Harvey Customer Support for compatibility guidance.

4.2 Product Specifications

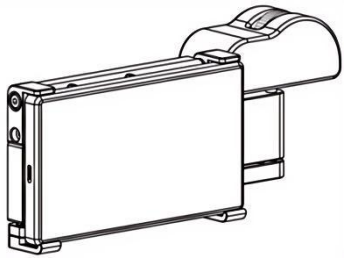
Model	B-PM
Product Name	Big Eye Intelligent Position Manager
Cut Width Display Resolution	0.004” (0.1 mm)
Blade Angle Display Resolution	0.1°
Battery Life	3.5h
Package Dimensions	62.2” x 6.7” x 1.97” (1580mm x 170mm x 150mm)
Gross Weight	12.1 lbs (5.5kg)
Net Weight	5.95 lbs (2.7kg)
Anti-Vibration Digital Angle Gauge	Measurement Range:-180°~ +180
	Measurement Accuracy: 0.1°
Display	5″ Touchscreen
	Android 13 Operating System
Camera	1 Megapixel
	60° Field of View

5. Unboxing and Inspection



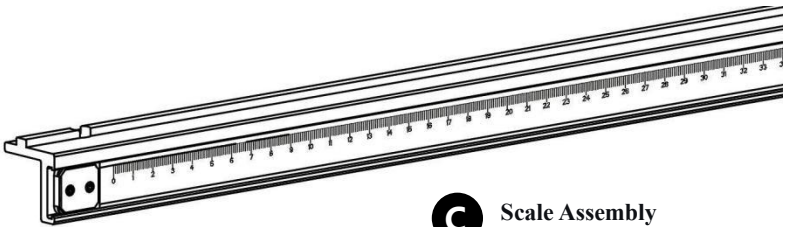
A **Camera Assembly**

Includes B-PM housing, camera, and camera USB Type-C adapter cable



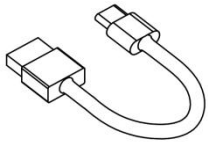
B **Display Assembly**

Includes display, display mounting bracket, and fine-adjustment

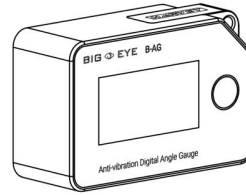


C **Scale Assembly**

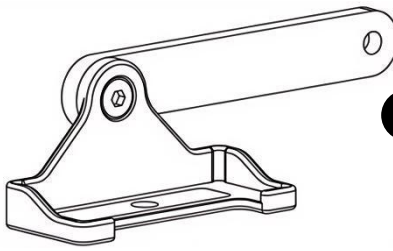
Includes scale and scale mounting bracket



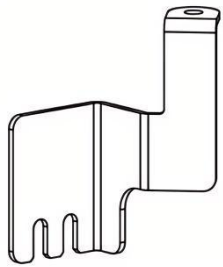
D **USB Type-C to USB Type-A Cable**



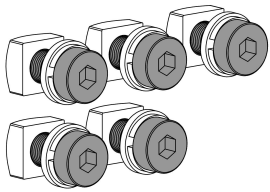
E **Anti-Vibration Digital Angle Gauge**



F **Anti-Vibration Digital Angle Gauge Mounting Base**

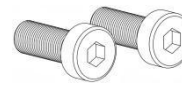


G **Anti-Vibration Digital Angle Gauge Mounting Bracket**
(Used for Harvey HW110LC & HW110TC table saw models only)



H **M6×16 Screw Sets (5 sets)**

For scale assembly installation



I **M4×12 Low Head Hex Socket Screws (6 pcs)**

For camera assembly installation

J **M6×16 Hex Socket Screws (2 pcs)**

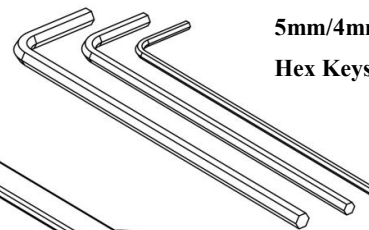
For display assembly installation

K **M6×10 Low Head Hex Socket Screw (1 pcs)**

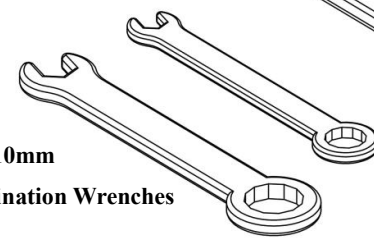
For Anti-Vibration Digital Angle Gauge mounting base installation

L **Φ 6 Flat Washer (1 pcs)**

For Anti-Vibration Digital Angle Gauge mounting base installation



5mm/4mm/2.5mm Hex Keys

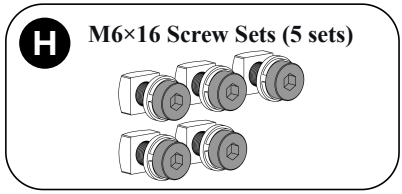


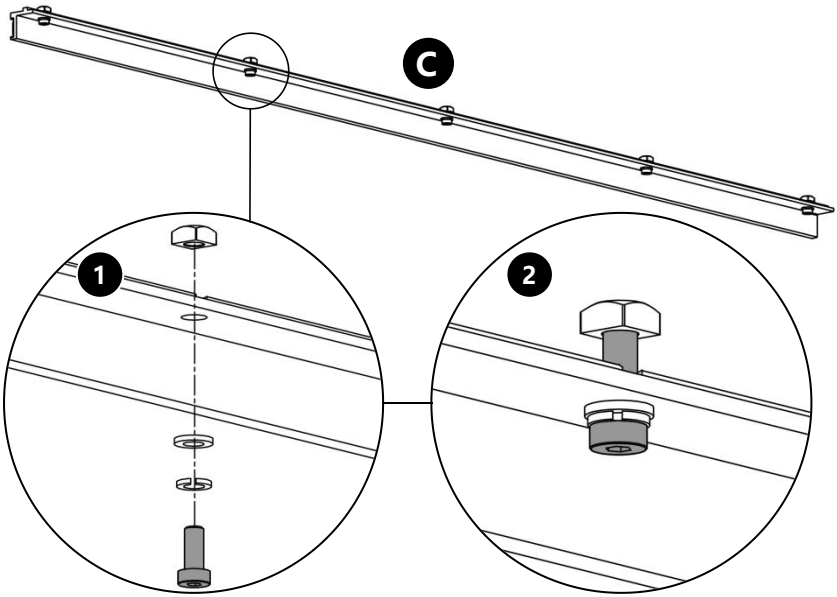
7mm/10mm Combination Wrenches

6. Installation

6.1 Scale Assembly Installation — STEP 1

Procedure: Preparation before installation.

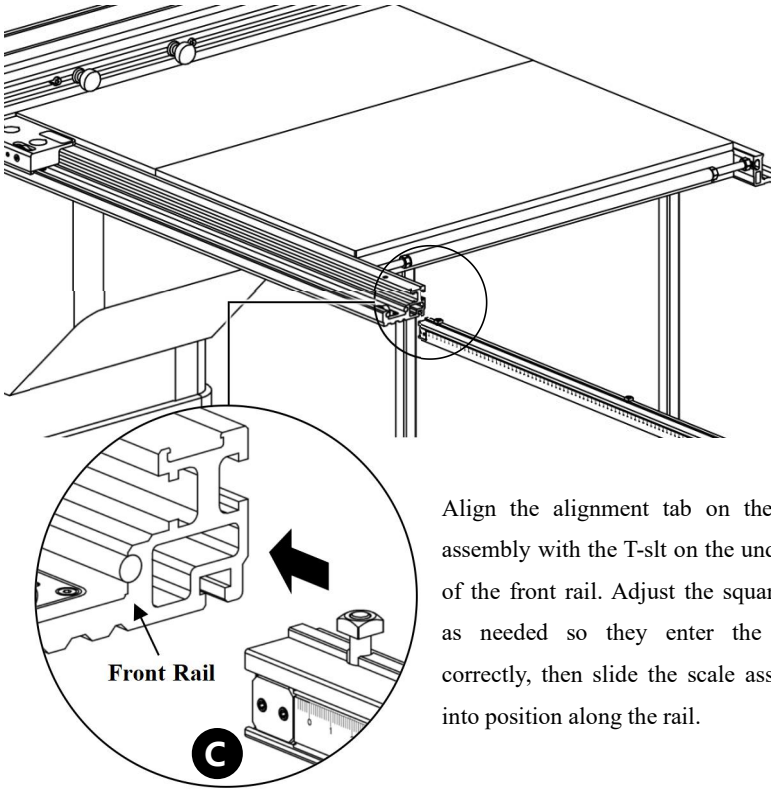




Disassemble the M6×16 screw sets. Insert each screw and included washers through the corresponding holes in the scale assembly as illustrated above. Thread each screw into square nut by hand 2-3 turns only. Do not fully tighten at this stage. **Repeat this process for all five (5) mounting holes.**

6.1 Scale Assembly Installation — STEP 2

Procedure: Slide the scale assembly into the T-slot located on the underside of the Big Eye front rail.Ensure the square nuts remain aligned within the T-slot during insertion.



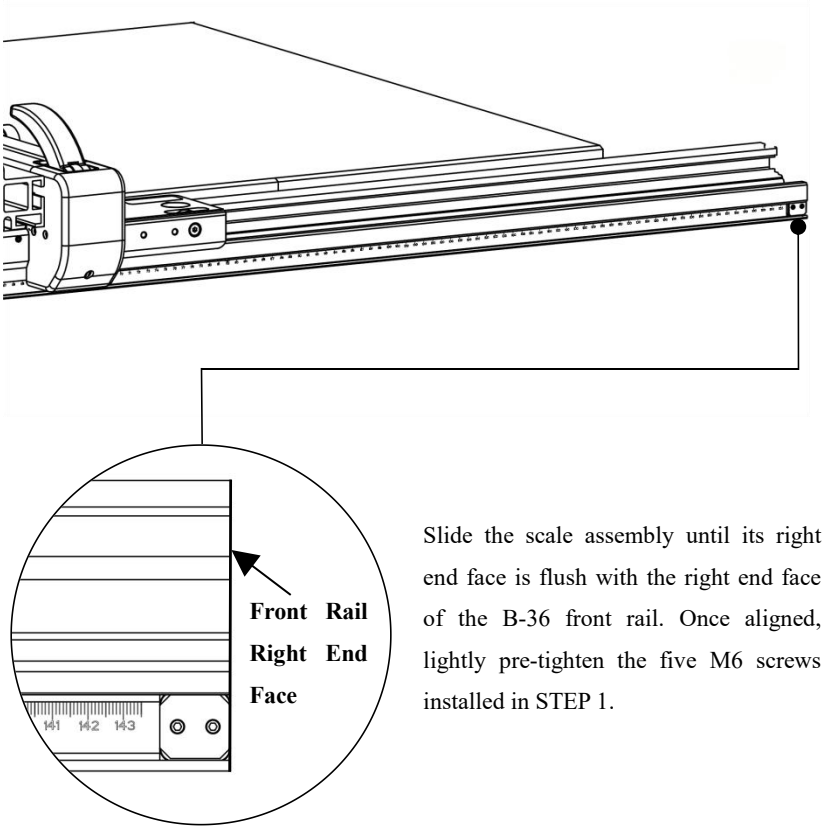
Align the alignment tab on the scale assembly with the T-slt on the underside of the front rail. Adjust the square nuts as needed so they enter the T-slot correctly, then slide the scale assembly into position along the rail.

Note: This product is compatible with both B-36 and B-52 Big Eye fence systems. Due to structural differences between the two models, the alignment position of the scale assembly is model-specific. Identify your fence system and follow the appropriate procedure below:

- **GO TO STEP 3: B-36** Front Rail Positioning Instructions
- **GO TO STEP 4: B-52** Front Rail Positioning Instructions

6.1 Scale Assembly Installation (for B-36) — STEP 3

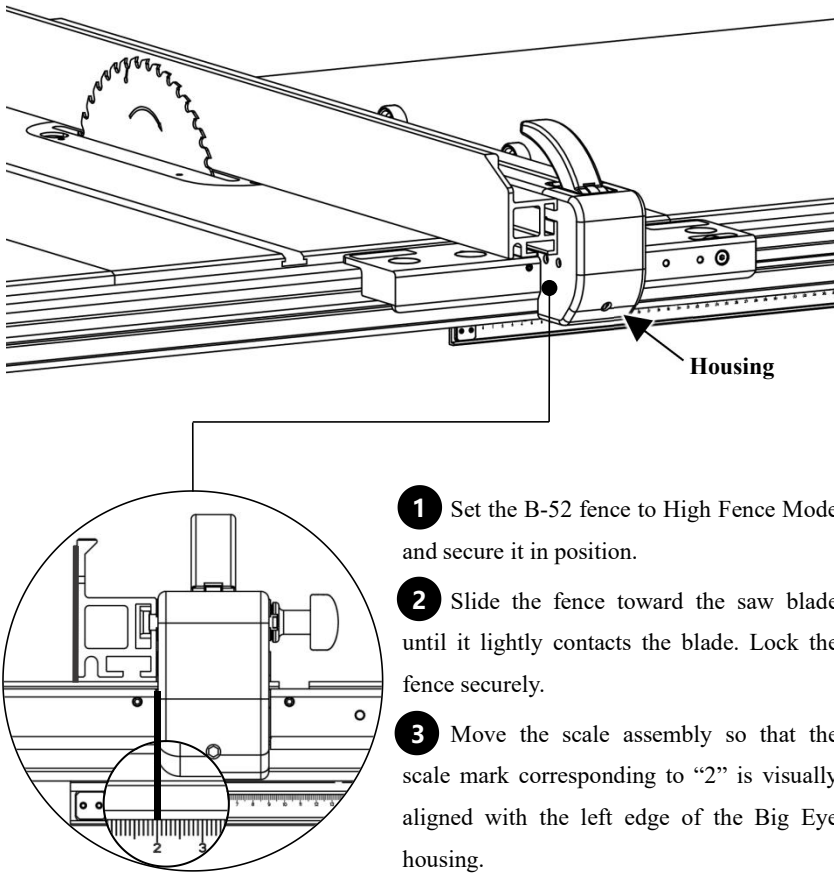
Procedure: Positioning the scale assembly on the B-36 front rail.



Slide the scale assembly until its right end face is flush with the right end face of the B-36 front rail. Once aligned, lightly pre-tighten the five M6 screws installed in STEP 1.

6.1 Scale Assembly Installation (for B-52) — STEP 4

Procedure: Positioning the scale assembly on the B-52 front rail.

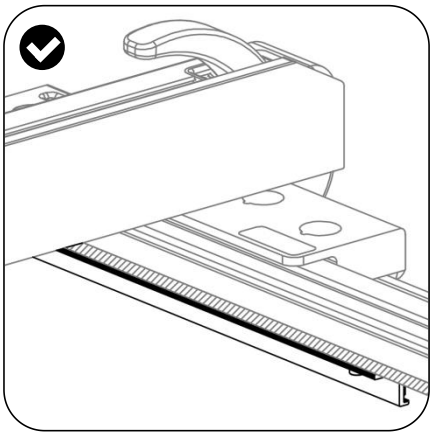


1. Set the B-52 fence to High Fence Mode and secure it in position.
2. Slide the fence toward the saw blade until it lightly contacts the blade. Lock the fence securely.
3. Move the scale assembly so that the scale mark corresponding to “2” is visually aligned with the left edge of the Big Eye housing.
4. Once aligned, lightly pre-tighten the five (5) M6 screws installed in STEP 1.

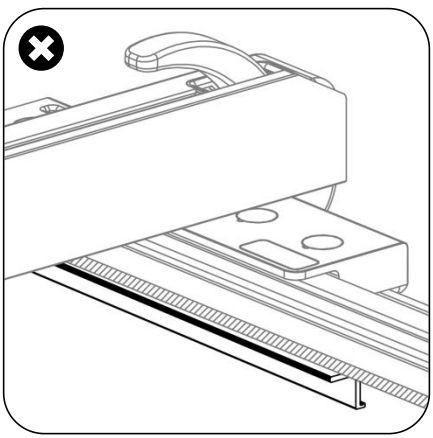
6.1 Scale Assembly Installation — STEP 5

Procedure: Final alignment and tightening.

Verify that the front rail and scale assembly are flush and properly aligned. You should be able to slide your finger smoothly across the joint without feeling any step or offset. While keeping the scale assembly parallel to the front rail, fully tighten the five (5) M6 screws.



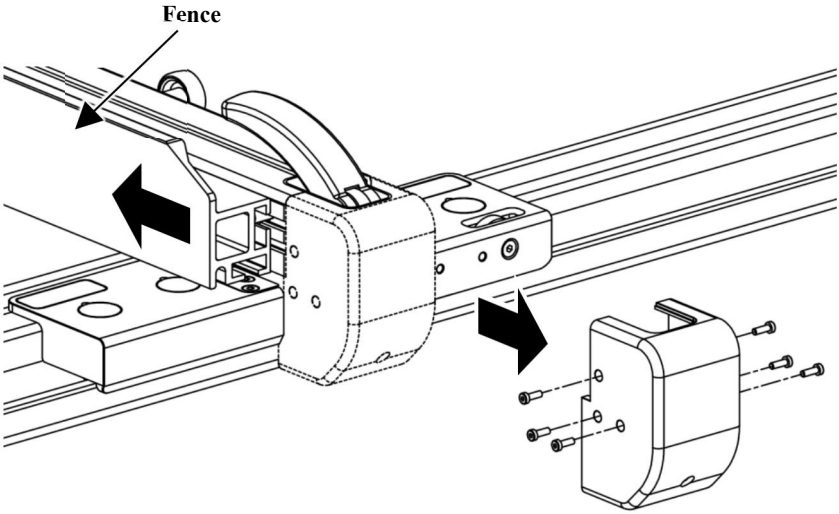
Scale assembly parallel to front rail



Scale assembly not parallel to front rail

6.2 Installing the Camera Assembly — STEP 1

Procedure: Remove the original housing.



1 Lock the fence. Move the fence to the position shown in the illustration and lock it securely.

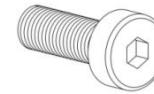
2 Using a 5mm hex key, remove the six (6) M4 x 12 screws located on both sides of the Big Eye housing.

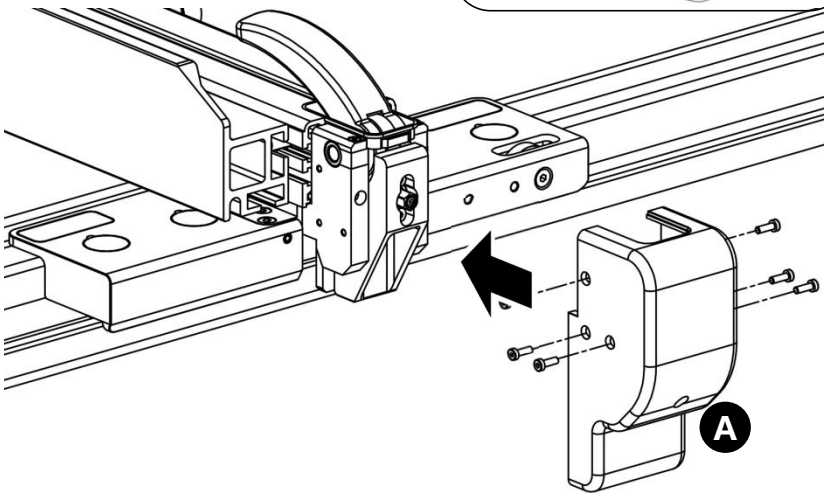
3 Carefully pull the housing straight outward, keeping it parallel to the front rail. The removed housing will not be reused.

6.2 Installing the Camera Assembly — STEP 2

Procedure: Install the camera assembly onto the Big Eye fence body.

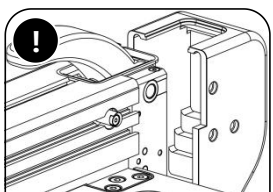
I **M4×12 Low Head Hex Socket Screws (6 pcs)**



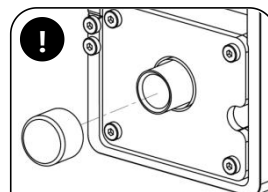


Align the camera assembly with the mounting position on the Big Eye fence body, replacing the original housing removed in STEP 1. Carefully slide the assembly into position, keeping it parallel to the front rail to avoid impact or misalignment.

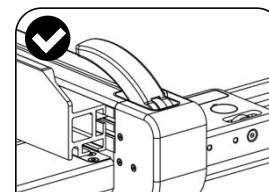
Secure the camera assembly using the six M4x12 screws removed previously. Tighten all screws evenly on both sides.



Note: Keep the assembly parallel during installation to prevent damage.

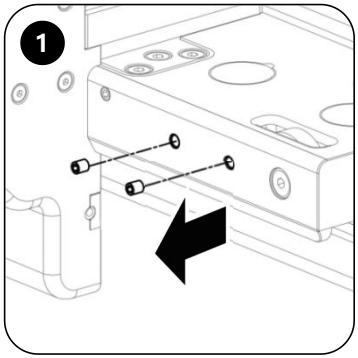


Remove the protective lens cap before operating the system.

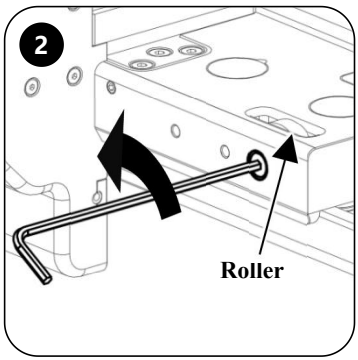


6.3 Installing the Display Assembly — STEP 1

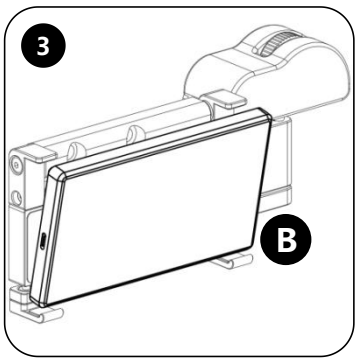
Procedure: Preparation before installation.



Remove the screws shown in the illustration. This screws will not be reused.



Rotate the roller shaft approximately half a turn, as shown, to disengage the roller from the front rail.

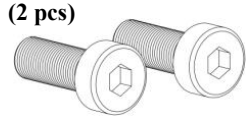


The display is pre-installed on the display mounting bracket at shipment. Carefully remove the display from the bracket before installation and place it in a safe location to prevent damage.

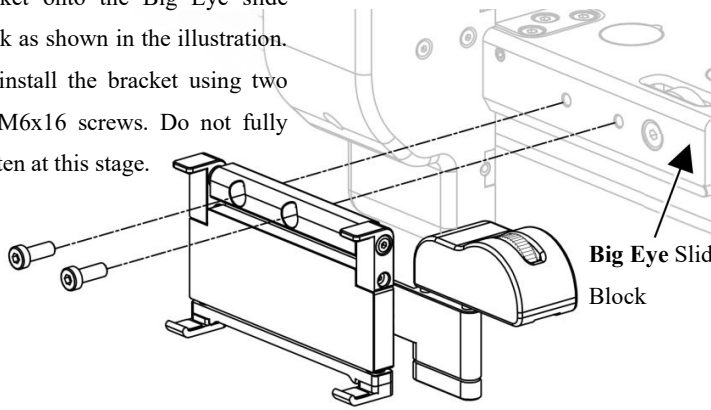
6.3 Installing the Display Assembly — STEP 2

Procedure: Install the display mounting bracket onto the Big Eye slide block.

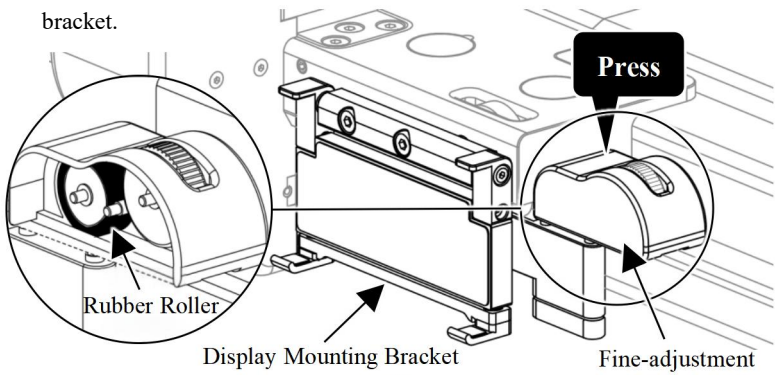
J **M6×16 Hex Socket Screws (2 pcs)**



1 Position the display mounting bracket onto the Big Eye slide block as shown in the illustration. Pre-install the bracket using two (2) M6x16 screws. Do not fully tighten at this stage.



2 Press down on the fine-adjustment mechanism to engage the rubber roller with the front rail. While maintaining downward pressure, ensure the mounting bracket is level and parallel with the Big Eye slide block. Once properly aligned, fully tighten the two (2) M6x16 screws to secure the bracket.



6.3 Installing the Display Assembly — STEP 3

Procedure: Adjust spring tension.

The fine-adjustment mechanism is pressed against the Big Eye front rail by two internal tension springs. Proper spring tension ensures smooth fence travel while maintaining consistent contact between the rubber roller and the rail.

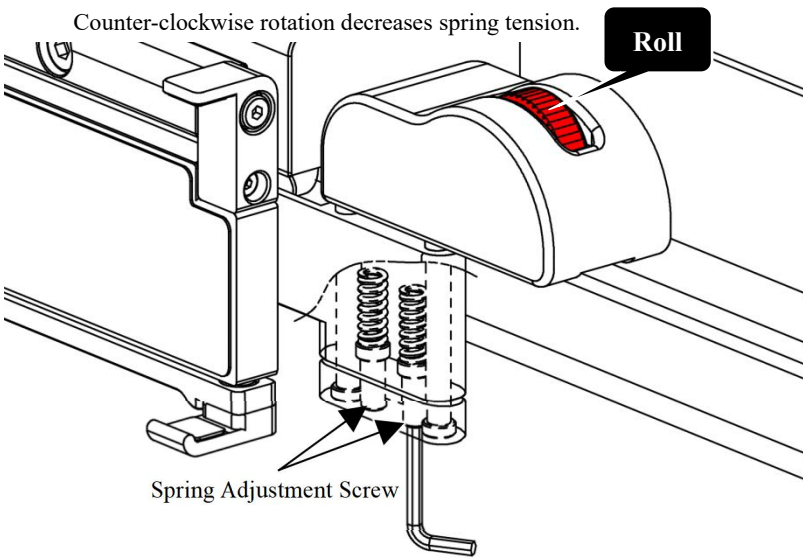
1. Release the Big Eye fence locking handle.

2. Using a hex key, turn the spring adjustment screw clockwise two (2) full turns, as shown in the illustration.

3. With the fence unlocked, rotate the red fine-adjustment roller to move the fence forward and backward. If the fence moves smoothly and maintains consistent contact with the front rail, the adjustment is correct. If the movement feels loose or inconsistent, repeat **Step 2** and increase the spring tension slightly.

Note: Clockwise rotation increases spring tension.

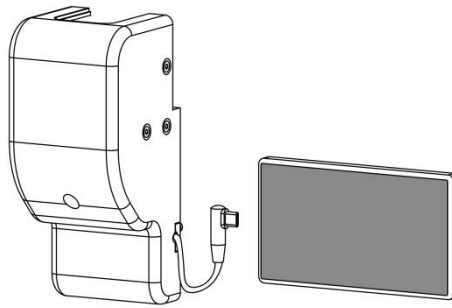
Counter-clockwise rotation decreases spring tension.



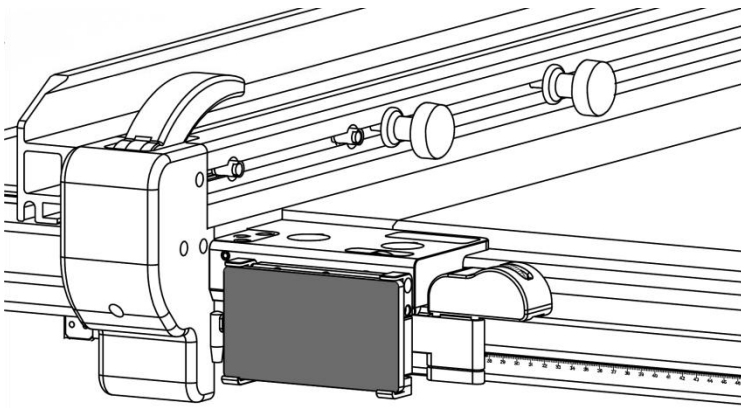
6.3 Installing the Display Assembly — STEP 4

Procedure: Install the display.

1. Connect the USB Type-C connector from the camera assembly to the corresponding Type-C port on the display. Ensure the connector is fully seated.



2. Carefully position and seat the display onto the display mounting bracket as shown in the illustration (below).



Note:

This product is compatible with HW110S, HW110TC, and HW110LC table saw models. Due to structural differences among these models, the installation procedure for the Anti-Vibration Digital Angle Gauge mounting base varies.

Before proceeding, identify your table saw model and follow the corresponding installation instructions:

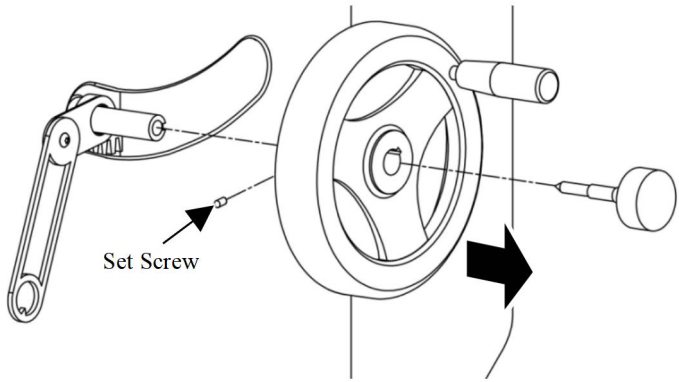
- **HW110S series: Refer to section 6.4**
- **HW110LC and HW110TC series: Refer to section 6.5**

6.4 Installing the Anti-Vibration Digital Angle Gauge Mounting Base (For HW110S Series) — STEP 1

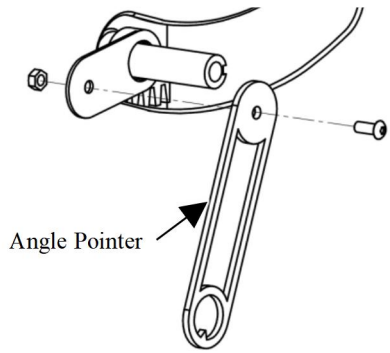
For HW110S series table saws, the Anti-Vibration Digital Angle Gauge mounting base installs directly onto the original angle pointer bracket.

1. Set the saw blade to 90° (blade perpendicular to the table surface).

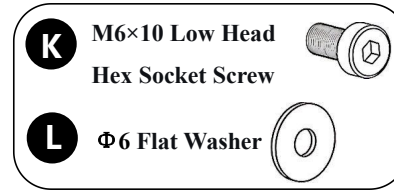
2. Loosen the set screw on the blade elevation handwheel using the appropriate hex key, then remove the handwheel.



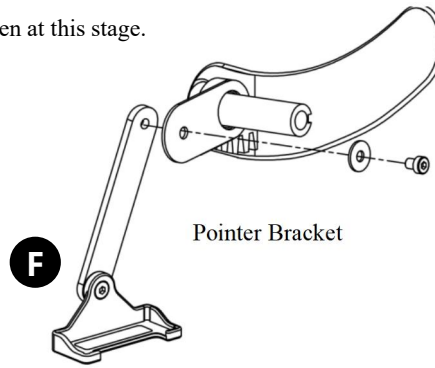
3. Using the provided combination wrench and hex key, remove the angle pointer as shown in the illustration.



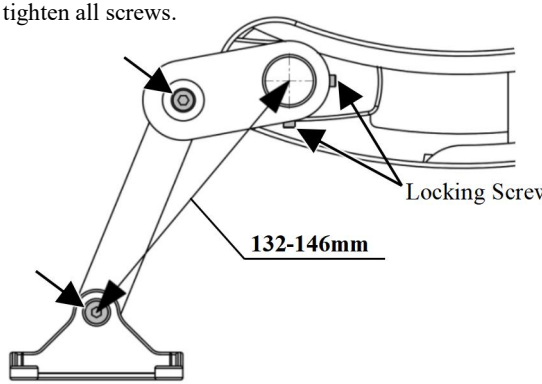
6.4 Installing the Anti-Vibration Digital Angle Gauge Mounting Base (For HW110S Series) — STEP 2



1. Using a hex key, pre-install the Anti-Vibration Digital Angle Gauge mounting base to the rear of the pointer bracket, as shown in the illustration below. Do not fully tighten at this stage.

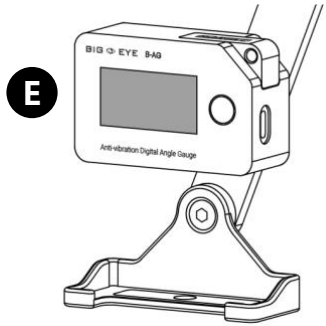


2. Loosen the pointer bracket locking screw. Adjust the position of the pointer bracket and the Anti-Vibration Digital Gauge mounting base as shown, then securely tighten all screws.



6.4 Installing the Anti-Vibration Digital Angle Gauge Mounting Base (For HW110S Series) — STEP 3

1. Place the Anti-Vibration Digital Angle Gauge onto the mounting base. Ensure it is seated securely and fully engaged with the magnetic surface.



2. Reinstall the blade elevation handwheel and secure it properly.

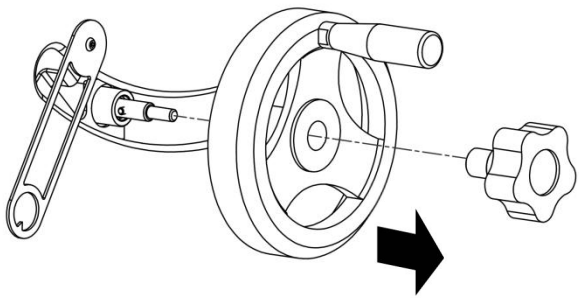
3. Adjust the blade angle through the full 90° to 45° range and check for any mechanical interference.
   - If no interference occurs, the installation is complete!
   - If interferance is detected, return to **Section 6.4 (STEP 2)** and readjust the mounting base position as required.

6.5 Installing the Anti-Vibration Digital Angle Gauge Mounting Base (For HW110LC and HW110TC Series) — STEP 1

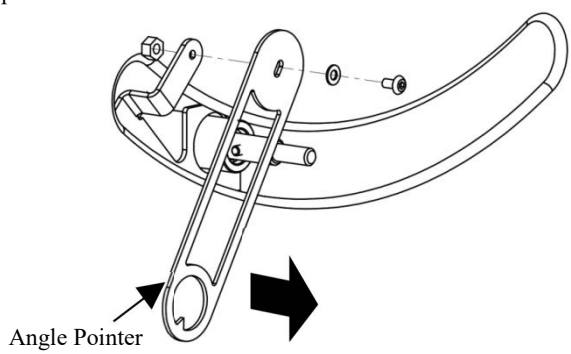
For HW110LC and HW110TC series table saws, remove the angle pointer and install the Anti-Vibration Digital Angle Gauge mounting bracket under the pointer bracket.

1. Set the saw blade to 90° (blade perpendicular to the table surface).

2. Remove the blade elevation handwheel as shown in the illustration.

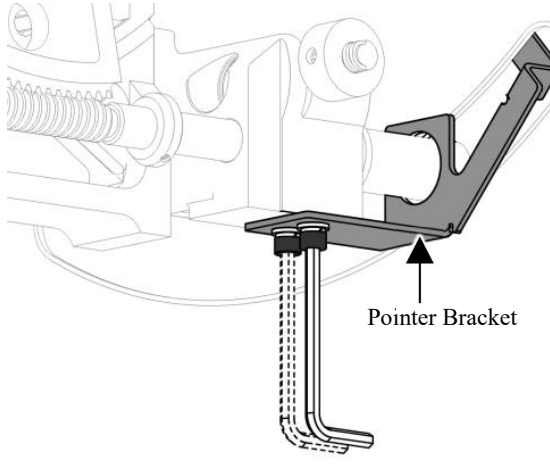


3. Using the provided combination wrench and hex key, remove the angle pointer.



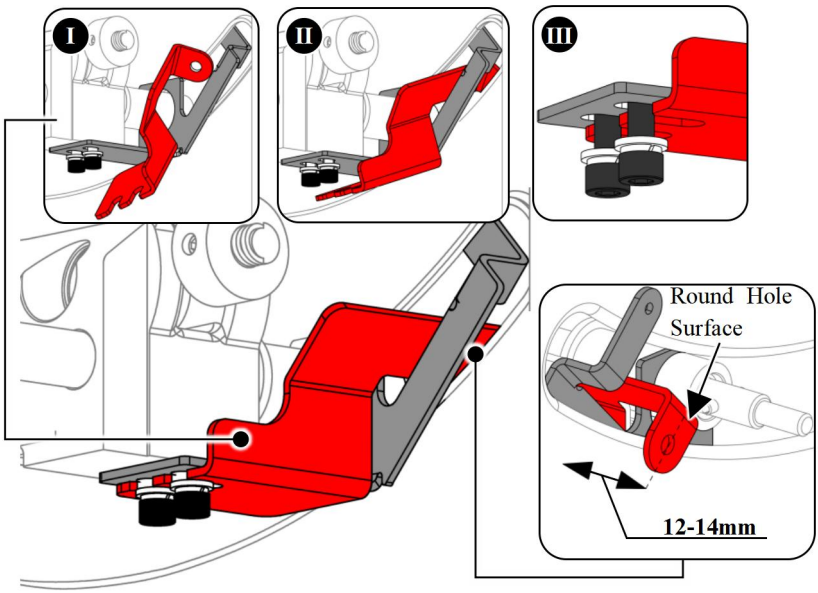
6.5 Installing the Anti-Vibration Digital Angle Gauge Mounting Base (For HW110LC and HW110TC Series) — STEP 2

1. Open the motor cover.
2. Locate the two (2) M6 hex socket screws securing the pointer bracket.
3. Using a hex key, turn both screws counter-clockwise approximately four turns to loosen them. Do not remove the screws completely.

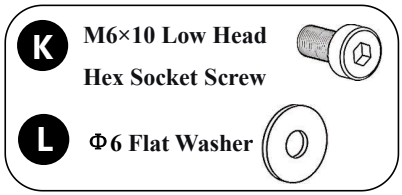


6.5 Installing the Anti-Vibration Digital Angle Gauge Mounting Base (For HW110LC and HW110TC Series) — STEP 3

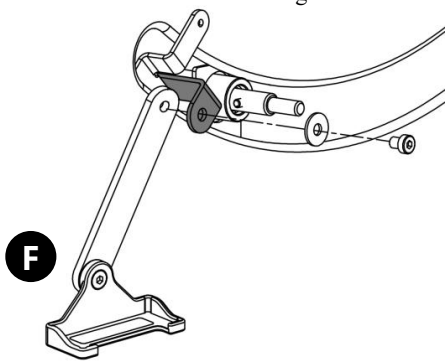
1. From inside the cabinet, insert the single round-hole end of the Anti-Vibration Digital Angle Gauge mounting bracket through the cabinet slot so that it extends outward.
2. Position the mounting bracket beneath the pointer bracket. Align the slotted hole of the mounting bracket with the loosened M6 screws.
3. Push the bracket fully into position. Ensure the surface with the round hole is parallel to the outside surface of the cabinet and spaced approximately 12-14mm (approx 1/2") from it.
4. Once properly aligned, tighten the two (2) M6 screws securely.



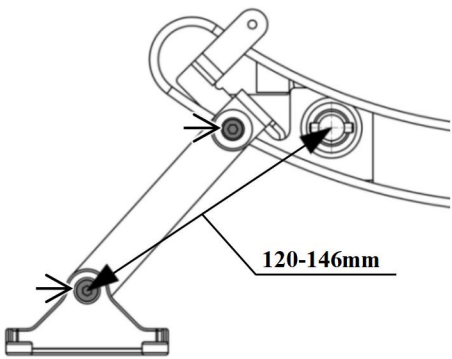
6.5 Installing the Anti-Vibration Digital Angle Gauge Mounting Base (For HW110LC and HW110TC Series) — STEP 4



1. Using a hex key, loosely attach the Anti-Vibration Digital Angle Gauge mounting base to the rear of the mounting bracket as shown in the illustration below.

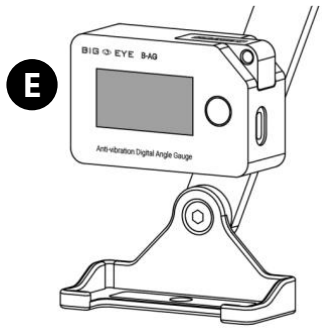


2. Adjust the mounting base to the correct position as illustrated, ensuring proper alignment. Once aligned, fully tighten all screws to secure the assembly.



6.5 Installing the Anti-Vibration Digital Angle Gauge Mounting Base (For HW110LC and HW110TC Series) — STEP 5

1 Place the Anti-Vibration Digital Angle Gauge onto the mounting base. Ensure it is seated securely and fully engaged with the magnetic surface.



2 Reinstall the blade elevation handwheel and secure it properly.

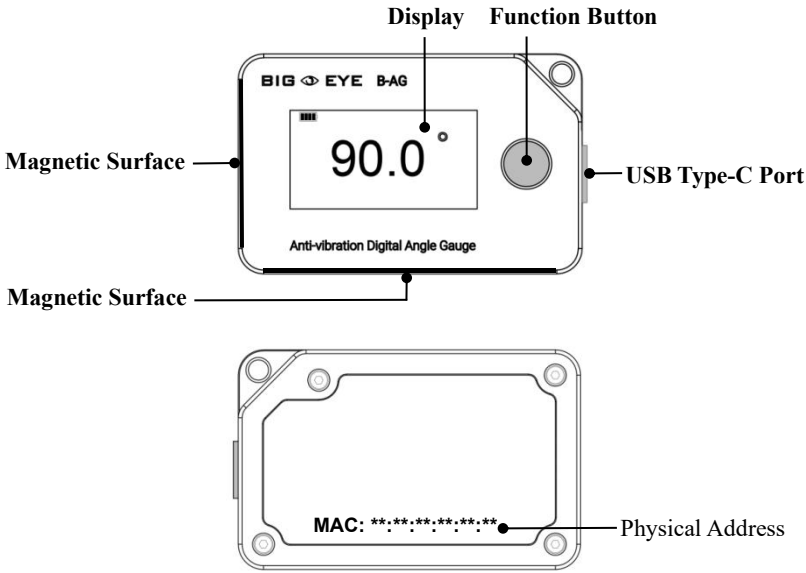
3 Adjust the blade angle through the full 90° to 45° range and check for any mechanical interference.

- If no interference occurs, the installation is complete!
- If interferance is detected, return to **Section 6.5 (STEP 4)** and readjust the mounting base position as required.

7. Operation

7.1 Anti-Vibration Digital Angle Gauge

The Anti-Vibration Digital Angle Gauge provides real-time blade angle measurement and wirelessly transmits data to the display unit via Bluetooth.



Component Identification:

- **Display Screen:** Shows the current blade angle reading. The battery level indicator is located in the upper left corner of the screen.
- **Magnetic Surface:** Two integrated high-strength magnetic faces allow secure attachment to compatible mounting surfaces. Either magnetic face may be used.
- **USB Type-C Port:** Charging port for the Anti-Vibration Digital Angle Gauge. Use a 5V standard USB power source for charging.

7.1 Anti-Vibration Digital Angle Gauge — Function Button

Function Button Operations:

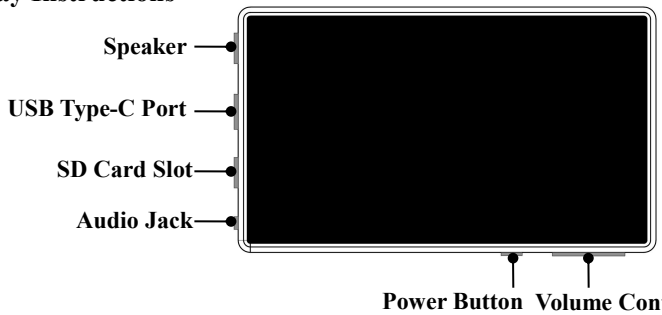
1. **Power On**: With the device powered off, briefly press the function button to turn it on.
2. **Power Off**: With the device powered on, briefly press the function button to turn it off.
3. **90° Reset**: Press and hold the function button for approximately 2-3 seconds. The angle display will reset to 90.0°.
4. **Wake from Sleep**: When the device is in sleep mode, briefly press the function button to wake the display.

Sleep Mode Behavior:

To conserve battery power, the display automatically turns off after approximately 2 minutes of inactivity and enters sleep mode.

- In sleep mode, the display will not automatically wake if the angle changes.
- To view the current angle reading, press the function button to manually wake the device.
- While in sleep mode, the Anti-Vibration Digital Angle Gauge continues transmitting data via Bluetooth.

7.2 Display Instructions



Note: The SD card slot and audio jack on this device are not used and are non-functional. They are reserved for hardware compatibility and future development.

The speaker and volume controls operate in the same manner as standard mobile electronic devices.

- **USB Type-C Port:**
  1. Used for charging the display unit.
     Caution: Always use a standard 5V / 1A charger. Using an incorrect power supply may damage the device.
  2. Used to connect to the camera assembly for power supply and data transmission.

- **Power Button**
  1. Power On: Press and hold the power button for approximately 4 seconds. When the "HARVEY" logo appears, release the button and allow approximately 30 seconds for system startup.

A startup safety warning will appear on the screen. Please read the message carefully, then tap "HOME" to enter the main interface.

7.2 Display Instructions (Continued)

2. Power Off/Restart: With the screen on, press and hold the power button. A selection dialog will appear with the following options: "***Power Off***," "***Restart***," and "***Screenshot***."

Tap "***Power Off***" or "***Reset***" as desired.

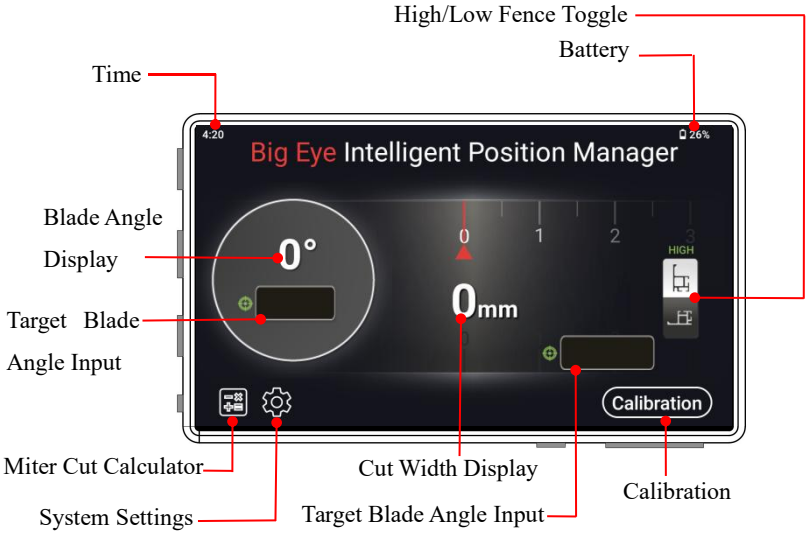
Note: The "***Screenshot***" function is not active on this product.

3. Screen Off/Wake:
   - With the screen on, briefly press the power button to turn the screen off.
   - With the screen off, briefly press the power button to wake the device.

Note: If the system remains stationary and idle, the display will automatically turn off after approximately 15 minutes and enter sleep mode to conserve battery power.

While in sleep mode, the display will not automatically turn on if the cut width or blade angle changes. To monitor measurements on the display, the device must be woken manually.

7.3 Main Interface Function Preview



- **System Settings:** Tap to enter "***System Settings***".

  Date & Time, Language, Wi-Fi, Bluetooth, Sound, and system parameters can be configured here. Refer to Section 7.4 for detailed instructions.

- **Time:** Displays the current system time. The time can be adjusted in “System Settings”.
- **Battery:** Displays the current battery level. When the battery level drops below 20%, the indicator will turn red. Charging is recommended at that time.
- **Calibrate:** Tap to enter the "Calibration" module. Refer to Section 7.5 for detailed instructions.
- **High/Low Fence Toggle:** Tap to switch between high fence mode and low fence modes. Refer to Section 7.6 for detailed instructions.
- **Cut Width Display:** Displays the current rip cut width measurement.
- **Blade Angle Display:** Displays the current blade angle. A blade positioned perpendicular to the table surface is defined as 90°.

7.3 Main Interface Function Preview (Continued)

- **Target Cut Width Input:**

  Tap to enter a desired target cut width. The system provides visual and audible guidance as the fence approaches the specified value. See Section 7.7 for detailed instructions.

- **Target Blade Angle Input:**

  Tap to enter a desired target blade angle. The system provides visual and audible guidance as the blade approaches the specified angle. See Section 7.8 for detailed instructions.

- **Bevel Cutting Calculator:**

  Tap to access the “Bevel Cutting Calculator” module. This feature assists in calculating required length, thickness, and cutting angle for miter operations. See Section 7.9 for detailed instructions.

7.4 System Settings

Tap the “System Settings” icon ( ) to enter the System Settings interface, as shown below. Within the menu, the following options are available:

Date & Time

Tap "Date & Time" to configure the system date, time, and time zone.

Language

Tap "Language" to select the system display language.

Wi-Fi

Tap "Wi-Fi" to configure wireless network settings.

Note: Wi-Fi is not required for normal operation. However, a stable Wi-Fi connection is required to download and install system updates.

Bluetooth

Tap "Bluetooth" to configure Bluetooth settings.

The display’s Bluetooth function is used to communicate with the Anti-Vibration Digital Angle Gauge. To ensure proper data transmission:

- Bluetooth must remain enabled.
- The angle gauge must be properly paired with the display.

Refer to Section 7.5.1 for pairing instructions.

7.4 System Settings (Continued)

Sound

Tap "Sound" to configure system sound settings, including volume and audible alerts.

Parameter Settings

Tap "Parameter Settings" to access the viewpoint adjustment interface shown below.

Viewport

Viewport Position Adjustment Keys

Parameter Settings

Save Position

Back

Interface Functions

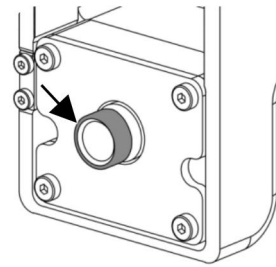
- **Viewport**: Displays the live camera image used by the system to detect and track the fence scale.
- **Viewport Position Adjustment Keys:**
  - Press "↑" to move the viewport upward.
  - Press "↓" to move the viewport downward.
- **Parameter Settings:** Tap to enter the advanced system parameter interface. *Password required. For service use only.*
- **Save:** Tap to save the current viewport position.
- **Back:** Tap to return to the System Settings interface.

The B-PM uses the camera to locate and track the scale markings on the front rail in order to determine the fence position. Proper viewpoint alignment and image clarity are required for accurate measurement. Use this interface to verify the camera image and adjust the viewpoint position if necessary.

7.4 System Settings (Continued)

1 Image Clarity Adjustment

The camera is pre-focused before shipment. If the captured image appears unclear, adjust the focus by rotating the **frosted convex ring located at the front of the camera lens** until the image becomes sharp.



2 Viewport Position Adjustment

Correct viewpoint alignment is critical for accurate scale recognition.

The top edge of the viewpoint must align with, or sit slightly below, the upper starting point of the scale marking. Positioning the viewpoint slightly lower than the scale starting point is acceptable.

Note: Do not position the viewpoint above the scale markings.

If the viewpoint extends above the scale line, a thin black gap may appear between the top of the scale and the viewpoint edge. This gap can interfere with the system's ability to accurately recognize the scale markings.

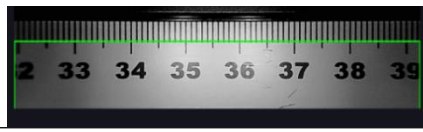
Additionally, the viewpoint must **fully cover the scale digits** so the system can correctly read the measurement values.

Using the **viewpoint position adjustment keys** to move the viewpoint up or down as needed. Once the correct position has been set, tap "**Save**" to store the adjustment.

7.4 System Settings (Continued)

Refer to the examples below for correct and incorrect viewpoint positioning.

Viewpoint Alignment Examples

Viewport Example	Correction Method
	Correct
	Lower viewport position
	Raise viewport position
	Lower viewport position

7.5 Calibration

Calibration ensures that the B-PM system accurately measures fence position and blade angle.

Calibration is required:

- Before first use
- Whenever the saw blade is replaced
- Whenever the fence is replaced or adjusted

The fence must be properly installed and locked during calibration.

Failure to complete calibration correctly may result in inaccurate measurements or unsafe cutting conditions.

Safety Note:

- Always use appropriate cutting techniques during calibration cuts.
- Use push sticks or push blocks as needed and keep hands clear of the blade at all times.
- Use scrap material only for calibration.

To begin calibration:

1. Tap "**Calibrate**" on the main interface.
2. Select the desired calibration type.

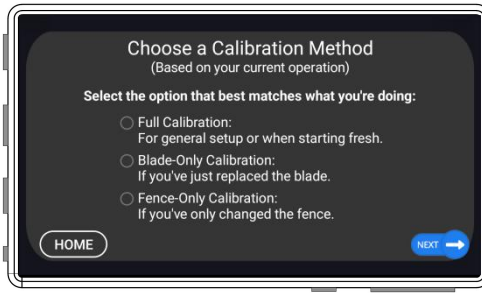
Available calibration options:

- **Full Calibration:** Full System calibration (recommended for first setup).
  - See section 7.5.1
- **Blade Change Only Calibration:** Update blade parameters after blade replacement.
  - See section 7.5.2
- **Fence Change Only:** Re-calibrate fence positioning.
  - See section 7.5.3

Tap **Next** to proceed to the next step.

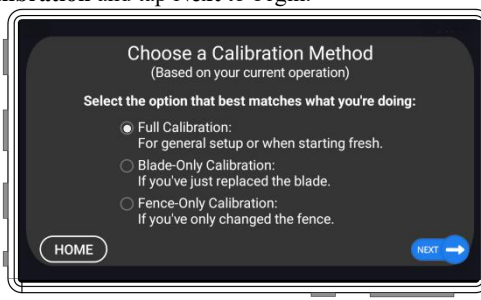
Tap **Previous** to return to the previous step.

Tap **HOME** at any time to exit calibration.



7.5.1 Full Calibration Setup

Select **Full Calibration** and tap **Next** to begin.



Step 1: Pair Anti-Vibration Digital Angle Gauge

The system will search for available angle gauge.

Select the device with the matching MAC available, then tap "**Pair Device**."

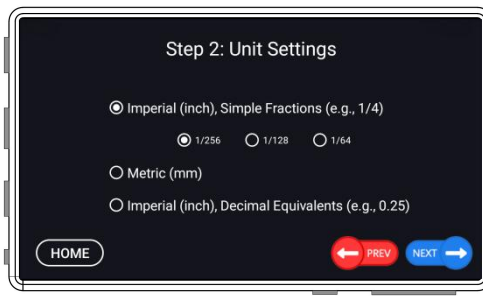
Requirements:

- The angle gauge must be **powered on**.
- The angle gauge must be **installed on the mounting base**.
- Initial connection may take **up to 30 seconds**.
- The MAC address is printed on the **back of the angle gauge device**.

7.5.1 Full Calibration Setup (Continued)

Step 2: Unit Selection

Select the desired measurement units.



Notes:

- Imperial units can be displayed as **fractions or decimals**.
- Metric values must be entered to **one decimal place**.
- Imperial decimal values may be entered up to **four decimal places**.

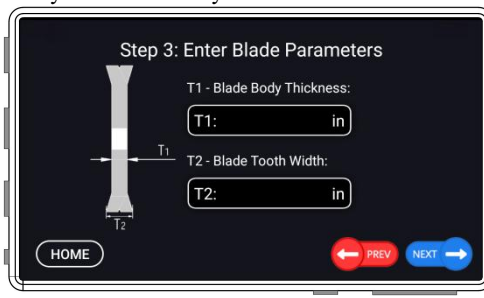
Step 3: Enter Blade Parameters

Enter the blade specifications for the blade currently installed in the saw.

- **T1: Blade Body Thickness:**
  - The thickness of the blade plate (the main steel body of the blade, excluding the teeth).
- **T2: Blade Tooth Width (Kerf Width):**
  - The total cutting width of the blade teeth. This is commonly referred to as the blade kerf.

7.5.1 Full Calibration Setup (Continued)

These values are typically provided by the blade manufacturer and can usually be found on the blade packaging or specification sheet. Accurate blade parameter input is required for the system to correctly calculate the final cut width.



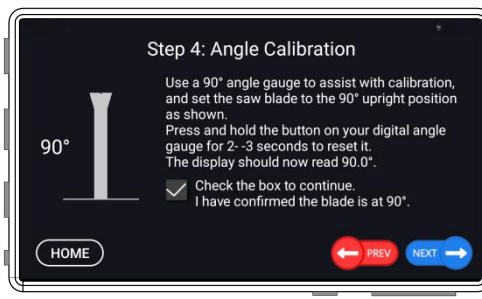
Step 4: Blade Angle Calibration

Follow the on-screen instructions to calibrate the blade angle.

Ensure the Anti-Vibration Digital Angle Gauge is properly mounted on the designated mounting base and powered on before beginning this step.

1. Set the saw blade to 90° upright position (perpendicular to the table surface).
2. Press and hold the function button on the Anti-Vibration Digital Angle Gauge for 2-3 seconds to reset the reference angle.
3. Confirm the angle gauge display reads 90.0°.
4. On the display screen, check the confirmation box indicating that blade has been set to 90°.

Tap **Next** to continue to the next calibration step.



7.5.1 Full Calibration Setup (Continued)

Step 5: High Fence Position Calibration (90°)

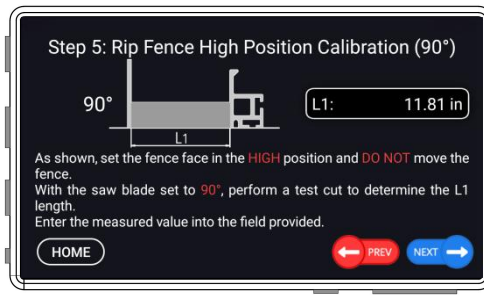
Calibrate the fence position using the high fence configuration.

1. Set the fence face to the high fence position.
2. Ensure the saw blade is set to 90° (perpendicular to the table surface).
3. Lock the fence securely and do not move the fence during this step.
4. Make a test rip cut as instructed on the display.
5. Measure the width of the cut piece and record this value as **L1**.
6. Enter the measured L1 value into the field shown on the display.

After entering the measurement, tap **Next** to continue.

Note:

- L1 represents the measured width of the test cut produced during this calibration step.
- Before performing this calibration step, ensure the Big Eye rip fence system is properly installed and aligned. The fence must be parallel to the saw blade, and the rail system must be securely mounted. If necessary, refer to the Big Eye Rip Fence System User Manual for fence alignment and setup procedures.
- Use a precision measuring tool (such as a caliper or precision ruler) when measuring L1 to ensure accurate calibration.



7.5.1 Full Calibration Setup (Continued)

Step 6: Low Fence Position Calibration (90°)

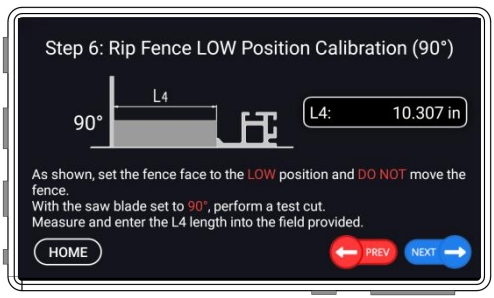
Calibrate the fence position using the low fence configuration.

1. Set the fence face to the low fence position.
2. Ensure the saw blade is set to 90° (perpendicular to the table surface).
3. Lock the fence securely and do not move the fence during this step.
4. Make a test rip cut as instructed on the display.
5. Measure the width of the cut piece and record this value as **L4**.
6. Enter the measured L4 value into the field shown on the display.

After entering the measurement, tap **Next** to continue.

Note:

- L4 represents the measured width of the test cut produced during this calibration step.



7.5.1 Full Calibration Setup (Continued)

Step 7: 60° Calibration Cut

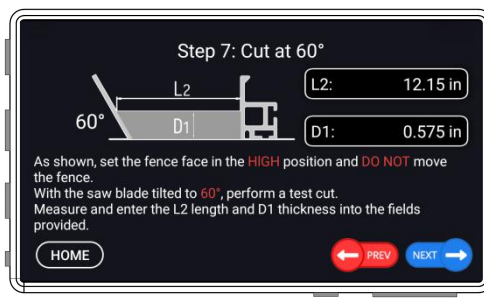
Perform the calibration cut with the blade tilted to 60°.

1. Set the fence face to the high fence position.
2. Tilt the saw blade to 60°.
3. Lock the fence securely and do not move the fence during this step.
4. Make a test cut as instructed on the display.
5. Measure the following dimensions from the cut piece:
   - **L2**: Top edge width of the angled cut piece
   - **D1**: Material thickness of the workpiece.
6. Enter the measured L2 and D1 values into the corresponding fields on the display.

After entering the measurements, tap **Next** to continue.

Note:

- L2 represents the width of the top edge of the angled cut piece produced during this calibration step.
- D1 represents the thickness of the material used for the calibration cut.



7.5.1 Full Calibration Setup (Continued)

Step 8: 45° Calibration Cut

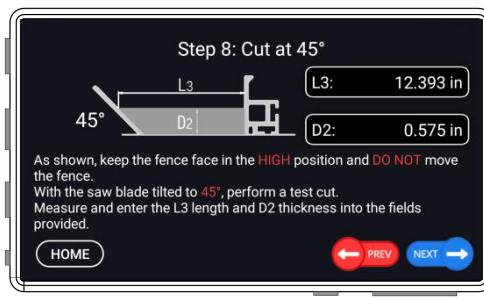
Perform the calibration cut with the blade tilted to 45°.

1. Ensure the fence face remains in the high fence position.
2. Tilt the saw blade to 45°.
3. Confirm the fence is securely locked and do not move the fence during this step.
4. Make a test cut as instructed on the display.
5. Measure the following dimensions from the cut piece:
   - L3: Top edge width of the angled cut piece
   - D2: Material thickness of the workpiece
6. Enter the measured L3 and D2 values into the corresponding fields on the display.

After entering the measurements, tap **Next** to finalize the calibration process.

Note:

- L3 represents the width of the top edge of the angled cut piece produced during this calibration step.
- D2 represents the thickness of the material used for the calibration cut.



7.5.1 Full Calibration Setup (Continued)

Calibration is now complete!

The B-PM Big Eye Intelligent Position Manager is ready for operation.

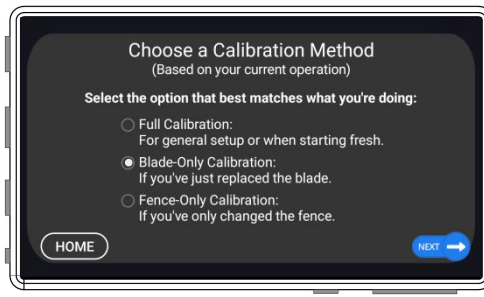
Tap OK to return to the main interface and begin using the system.

7.5.2 Blade Change Only Calibration

This calibration procedure should be performed whenever the saw blade is replaced to ensure accurate cut width calculations. Only the blade parameters need to be updated. Fence position calibration is not required.

To begin:

1. Tap Calibrate on the main interface.
2. Select Blade-Only Calibration.
3. Tap **Next** to proceed.



7.5.2 Blade Change Only Calibration (Continued)

Step 1: Enter Blade Parameters

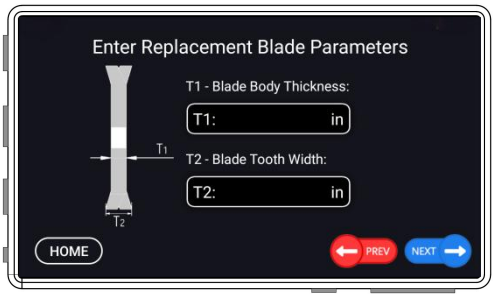
Enter the specifications for the newly installed saw blade.

- T1: Blade Body Thickness
  - Thickness of the blade plate (excluding the teeth).
- T2: Blade Tooth Width (Kerf Width)
  - The total cutting width of the blade teeth.

Enter the values into the corresponding input fields shown on the display.

Input Precision Requirements

- Metric units: accurate to one decimal place
- Imperial units (decimal format): up to four decimal places.



Calibration is now complete.

After entering the blade parameters, the system will update the blade data and complete the calibration. Tap OK to return to the main interface.

The B-PM system is now ready for use!

7.5.3 Fence Change Only Calibration

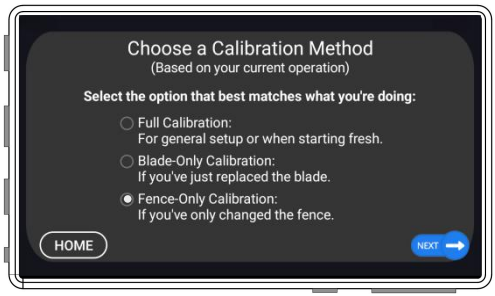
This calibration procedure must be performed whenever the rip fence is replaced or reinstalled to ensure accurate fence positioning and measurement. Blade parameters do not need to be recalibrated for this procedure.

To begin:

1.Tap Calibrate on the main interface.

2.Select Fence-Only Calibration.

3.Tap Next to proceed.



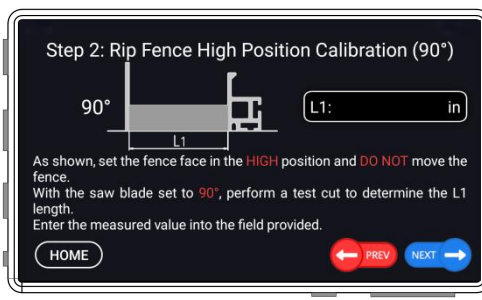
7.5.3 Fence Change Only Calibration (Continued)

Step 1: Blade Angle Calibration

- Ensure the Anti-Vibration Digital Angle Gauge is properly mounted and powered on.
- Press and hold the function button on the angle gauge for 2-3 seconds to reset the reference angle.
- Confirm the angle gauge display reads 90.0°.
- Check the confirmation box on the display to continue.

Step 2: High Fence Position Calibration (90°)

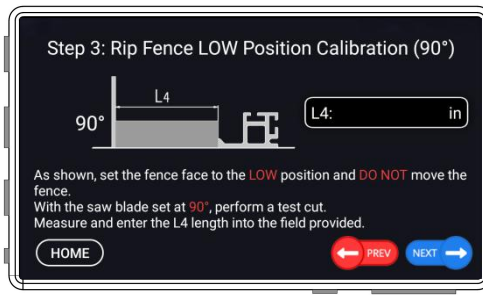
- Set the fence face to the high fence position.
- Ensure the saw blade remains at 90°.
- Lock the fence securely and do not move the fence during this step.
- Perform a test rip cut as instructed on the display.
- Measure the width of the cut piece.
- Enter the measured value into the field shown on the display.



7.5.3 Fence Change Only Calibration (Continued)

Step 3: Low Fence Position Calibration (90°)

- Set the fence face to the low fence position.
- Ensure the saw blade remains at 90°.
- Lock the fence securely and do not move the fence during this step.
- Perform the required test rip cut.
- Measure the width of the cut piece.
- Enter the measured value into the corresponding field on the display.



Calibration is now complete.

The calibration is now complete. The B-PM system is ready for use!

Tap OK to return to the main interface.

7.6 High/Low Fence Toggle

During normal operation, ensure the physical fence position matches the fence mode display on the screen. The Big Eye fence can be configured in two positions:

- **High Fence Mode**: Used when the fence face is in the high position
- **Low Fence Mode**: Used when the fence face is in the low position

If the fence position is changed, the fence mode must also be updated on the display.

To change the fence mode:

- Tap the "**High**" fence icon () to select High Fence Mode.
- Tap the "**Low**" fence icon () to select Low Fence Mode.

The selected mode will be shown on the display.

Important

Ensure the selected fence mode matches the actual fence position before making a cut. An incorrect fence mode setting may result in inaccurate measurements.

High Fence Mode

7.6 High/Low Fence Toggle (Continued)

Low Fence Mode

7.7 Setting the Target Cut Width

Tap the **Target Cut Width** input field on the main interface to enter the desired cut width.

As the fence moves towards the target value, the system provides **visual and audible feedback** to help guide positioning. The display will change color and emit tones to indicate how close the fence is to the target width. The deviation value represents the difference between the target cut width and the current fence position. The feedback conditions are described below.

Target Cut Width Input

Approaching Target (Deviation ≤ 5 mm)

- The target value turns **red**.
- A continuous steady tone is emitted to indicate the fence is nearing the target position.

Target Reached (Deviation = 0 mm)

- The target value and real-time cut width value both turn **green**.
- A “success” sound plays once.

7.7 Setting the Target Cut Width (Continued)

Minor Movement After Target (Deviation within ±1 mm)

- The target value turns red.
- No audible tone is emitted.

Deviation Between 1-5 mm

- The target value remains red.
- A continuous steady tone is emitted.

Deviation Greater Than 5 mm

- The target value returns to white.
- The audible tone stops.

7.8 Setting the Target Blade Angle

Tap the Target Blade Angle input field on the main interface to enter the desired blade angle.

As the blade angle approaches the target value, the system provides visual and audible feedback to assist with accurate adjustment. The display will change color and emit tones to indicate how close the blade angle is to the target setting. The deviation value represents the difference between the target blade angle and the current blade angle. The feedback conditions are described below.

Approaching Target (Deviation ≤ 1°)

- The target value turns red.
- A continuous steady tone is emitted to indicate the blade angle is nearing the target position.

Target Reached (Deviation = 0°)

- The target value and the real-time blade angle value both turn green.
- A "success" sound plays once.

7.8 Setting the Target Blade Angle (Continued)

Minor Adjustment After Target (Deviation within ±0.5°)

- The target value turns red.
- No audible tone is emitted.

Deviation Between 0.5°-1°

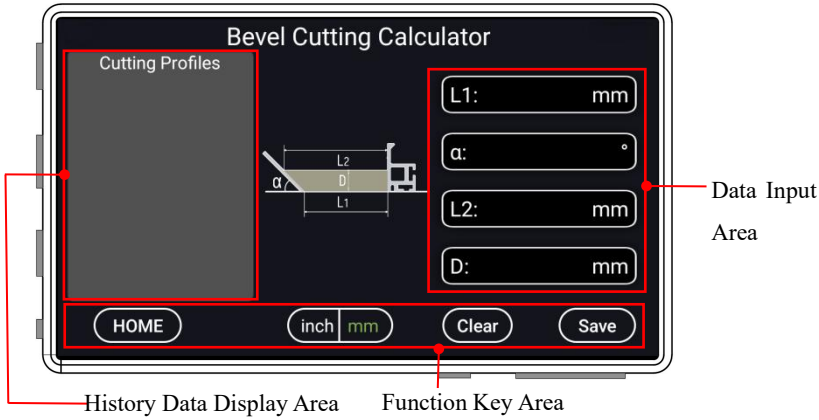
- The target value remains red.
- A continuous steady tone is emitted.

Deviation Greater Than 1°

- The target value returns to white.
- The audible tone stops.

7.9 Bevel Cutting Calculator

Tap the Bevel Cutting Calculator icon ( ) on the main interface to open the Bevel Cutting Calculator. This tool allows users to calculate the relationship between cut length, blade angle, and material thickness for angled cuts.



Function Key Area

The Function Key Area provides the following controls:

1. **Save:** Tap to save the data currently entered to the **Data Input Area** to the **History Data Display Area**.
2. **Clear:** Tap to clear all values currently entered in the **Data Input Area**.
3. **Imperial/Metric:** Tap to switch the unit system used in the Data Input Area. The active unit system is highlighted in **green**.
4. **HOME:** Tap to return to the main interface.

7.9 Bevel Cutting Calculator (Continued)

Data Input Area

Enter **any three** of the following four parameters.

The system will automatically calculate the remaining parameter, which will be displayed in red.

L1：Bottom Edge Length

- Length of the bottom edge of the cut section.

L2：Top Edge Length

- Length of the top edge of the cut section (Condition: 0 ＜L1 ＜ L2)

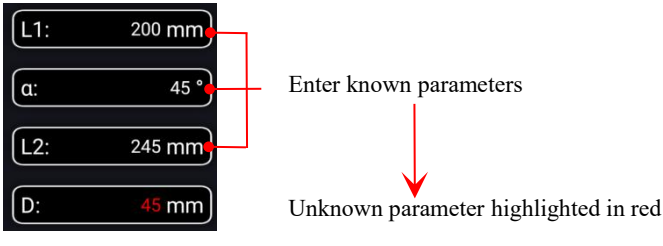
α：Cutting Angle

- Angle of the cut.（Range: 0＜ α ＜90°）

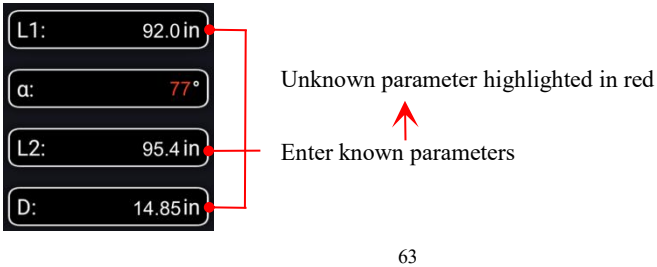
D： Material Thickness

- Thickness of the workpiece（D＞0）

Example 1：



Example 2:



7.9 Bevel Cutting Calculator (Continued)

History Data Display Area

Previously saved calculation data is displayed in this area.

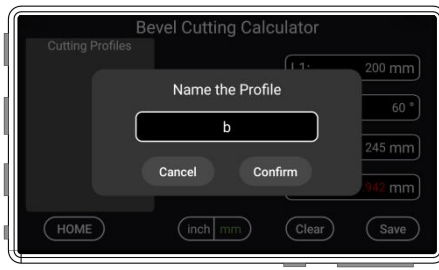
Scroll through the History Data Display Area to locate saved data.

To Save Data:

1.Tap **Save.**

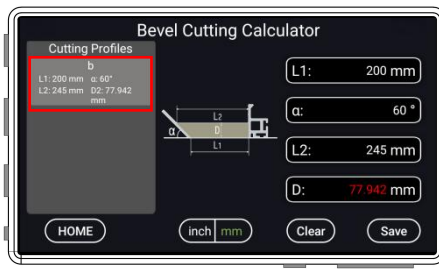
2.In the dialog box that appears, enter a name for the data group currently shown in the Data Input Area.

3.Tap **OK** to save the data.



To Delete Saved Data:

1.Press and hold the target data group.



7.9 Bevel Cutting Calculator (Continued)

2.When the confirmation dialog appears, tap OK to delete the selected data group.

8. Maintenance

8.1 Cleaning and Care

- Use compressed air regularly to remove sawdust and debris from all components.
- Wipe external surfaces with clean, dry, lint-free cloth.
- Do not use solvents, water, or abrasive cleaners on electronic components.
- For long-term storage, power off both the display and the Anti-Vibration Digital Angle Gauge. Recharge the devices periodically to maintain battery health.

8.2 Software Updates

- Enable Wi-Fi periodically to check for available system updates.
- When an update is available, the version number will appear in red within the System Settings menu.
- Tap the highlighted version number to initiate the update process and follow the on-screen instructions.

Note: Wi-Fi is only required for software updates. A network connection is not needed for normal operation.

8.3 Regular Calibration

To maintain measurement accuracy, perform a full calibration once per month under normal usage conditions..

- Additional calibration may be required after blade changes, fence adjustments, or mechanical servicing.

1. 前言

本说明书随产品一并提供，内容包含操作人员要求、产品适用环境及安全操作指引。为确保正确安装与使用，避免人身伤害，操作人员在使用前务必仔细阅读并理解本说明书内容。请注意，本说明未涵盖全部安全要求，用户应同时遵循相关安全规范。

2. 质保信息

质保期限

两年

购买凭证

请妥善保留有效购买凭证，作为保修与维修依据。

质保范围

自购买之日起，本公司为原始零售客户提供两年质保。质保期内，因产品质量缺陷导致的维修将免费提供。

以下情况不属于质保范围：

- 因滥用、误用或疏忽造成的损坏；
- 因维护不足导致的故障；
- 未经授权的维修或改装；
- 正常使用产生的部件磨损；
- 因天灾、火灾、爆炸等不可抗力引发的故障。

3. 产品介绍

3.1 产品描述

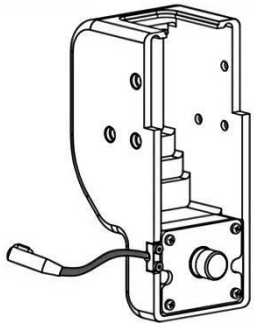
B-PM 是一款高精度智能台锯定位系统，专为配置了 BIG EYE 大眼直靠尺的海威品牌台锯设计。该系统采用数字成像技术，搭载 5 英寸触摸显示屏与电子倾角仪，可实时显示靠山位置及锯片摆角；配置微调滚轮，使靠山定位更加轻松准确，有效提升工作效率。

注意：本产品仅适用于装配 BIG EYE 大眼直靠尺（B-36/B-52）的海威品牌台锯。如需用于其他品牌台锯，请通过海威官网售后服务咨询适配方案。

3.2 产品参数

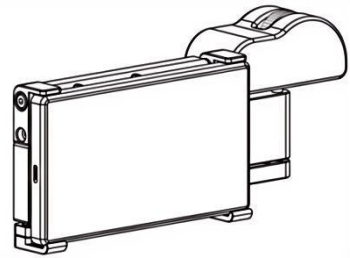
型号	B-PM
中文名称	BIG EYE 智能定位系统
切宽显示	分辨率 0.1mm
锯片摆角显示	分辨率 0.1°
综合续航时长	3.5h
包装尺寸	1580mmx170mmx150mm
毛重	5.5kg
净重	2.7kg
倾角仪	角度测量范围-180°～+180
	角度测量精度 0.1°
	电池额定容量 700mAh
显示屏	5″触摸屏
	Android 13 处理系统
	电池额定容量 2500mAh
摄像头	100 万像素
	60° 视场角

4. 开箱检查



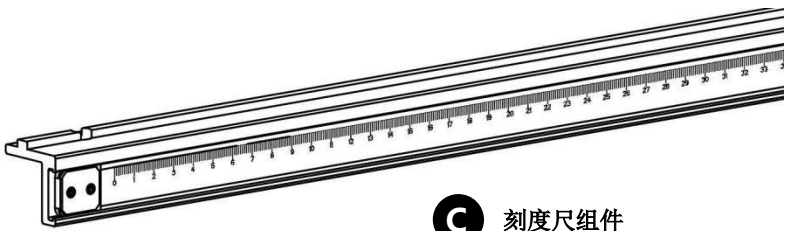
A **摄像头组件**

含 B-PM 罩壳、摄像头
及摄像头 Type-C 转接线



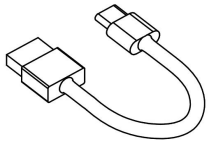
B **显示屏组件**

含显示屏、显示屏安装支架
及微调装置

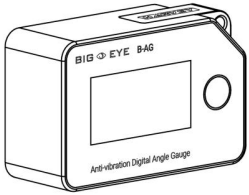


C **刻度尺组件**

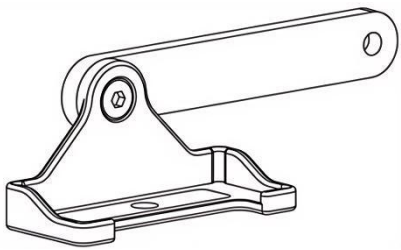
含刻度尺及刻度尺支架



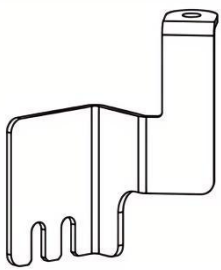
D **Type-C to USB 数据线**



E **倾角仪**

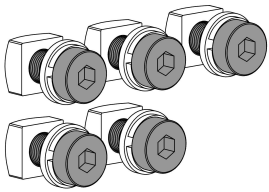


F **倾角仪固定座**



G **倾角仪安装支架**

仅适用 HW110LC/TC 台锯

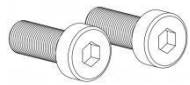


H **M6×16 螺钉组合（5 组）**

用于安装刻度尺组件

I **M4×12 内六角矮头螺钉（6 个）**

用于安装摄像头组件



J **M6×16 内六角螺钉（2 个）**

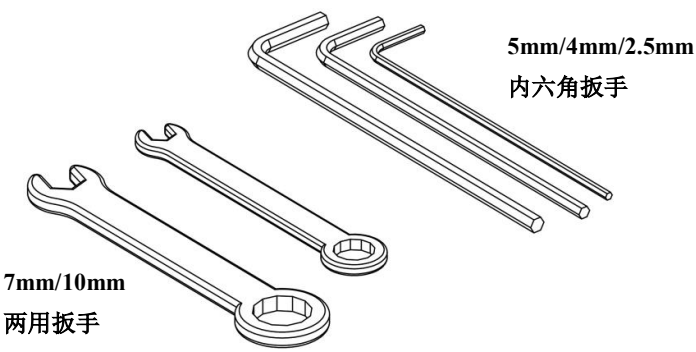
用于安装显示屏组件

K **M6×10 内六角矮头螺钉（1 个）**

用于安装倾角仪固定座

L **Φ6 大垫片（1 个）**

用于安装倾角仪固定座



5mm/4mm/2.5mm

内六角扳手

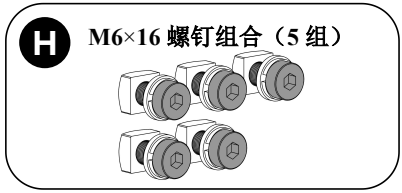
7mm/10mm

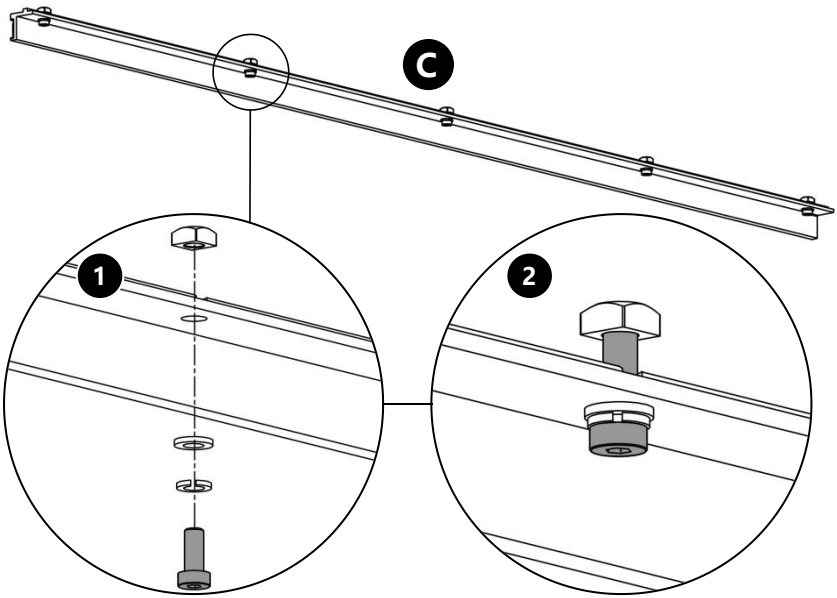
两用扳手

5. 安装

5.1 安装刻度尺组件---STEP 1

工序内容：安装前的准备。

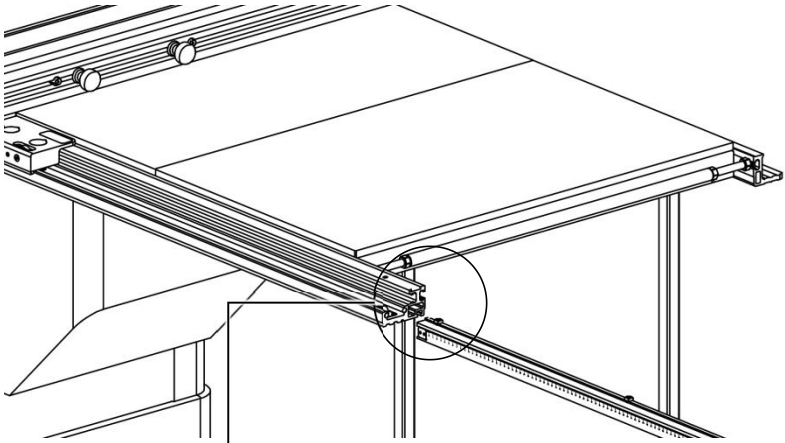


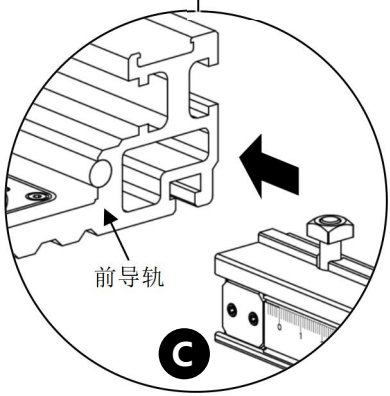


将 M6×**16** 螺钉组合拆开，螺钉穿过垫片与刻度尺组件的通孔，手动旋入方螺母 2-3 圈，暂勿拧紧。**请对全部 5 个安装孔重复此操作。**

5.1 安装刻度尺组件---STEP 2

工序内容：将刻度尺组件滑入前导轨底部的 T 型槽。





将刻度尺组件的凸台对准前导轨底部的 T 型槽，调整方螺母方向，滑入刻度尺组件。

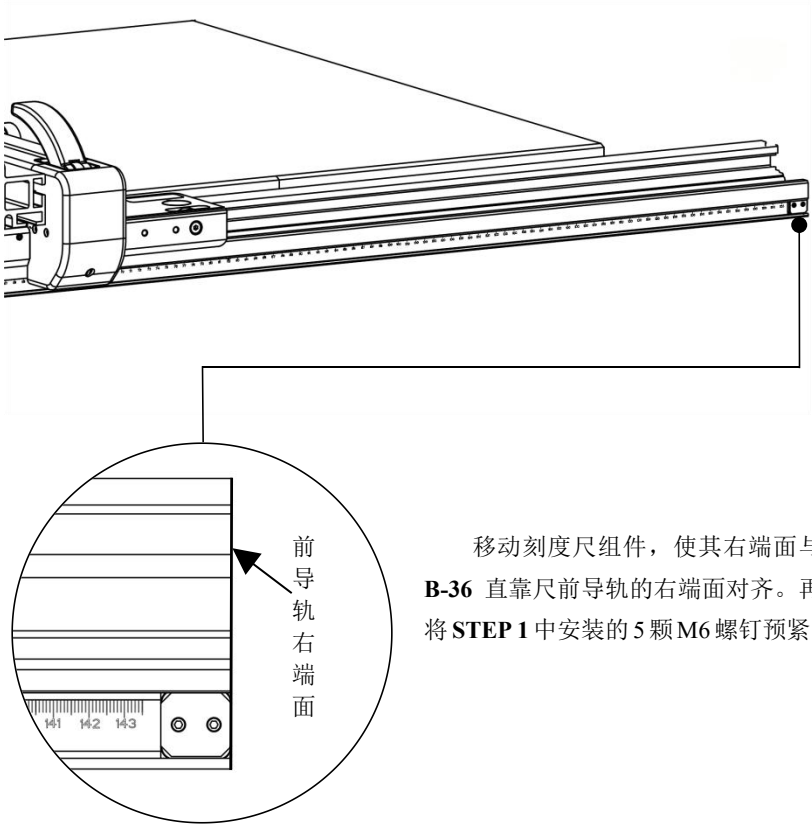
注意：本产品兼容 B-36 与 B-52 两款 BIG EYE 直靠尺，刻度尺组件相对于前导轨的定位基准存在差异。针对不同的直靠尺型号，需执行对应的操作：

STEP 3 是刻度尺组件相对于 B-36 前导轨的定位说明；

STEP 4 是刻度尺组件相对于 B-52 前导轨的定位说明。

5.1 安装刻度尺组件---STEP 3

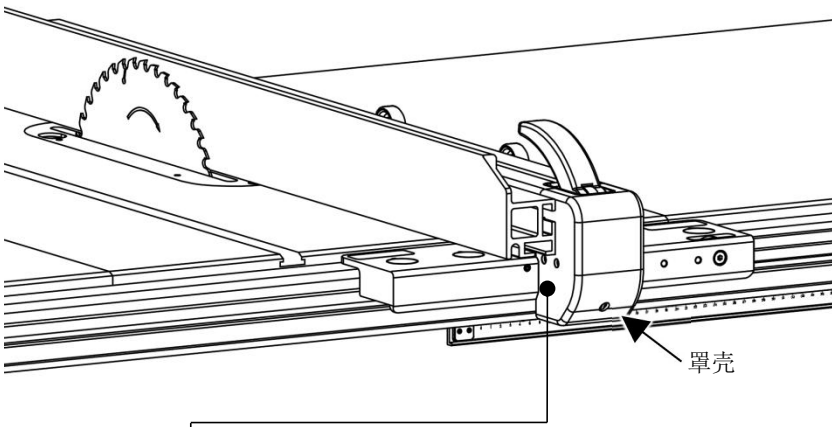
工序内容：刻度尺组件在 B-36 前导轨上的定位。

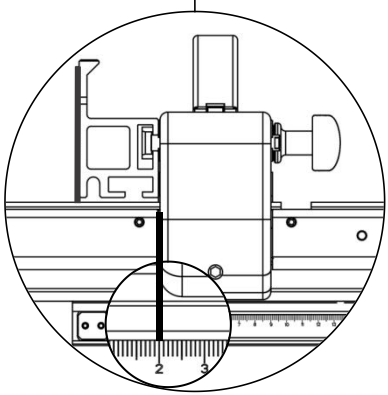


移动刻度尺组件，使其右端面与 **B-36** 直靠尺前导轨的右端面对齐。再将 **STEP 1** 中安装的 5 颗 M6 螺钉预紧。

5.1 安装刻度尺组件---STEP 4

工序内容：刻度尺组件在 B-52 前导轨上的定位。

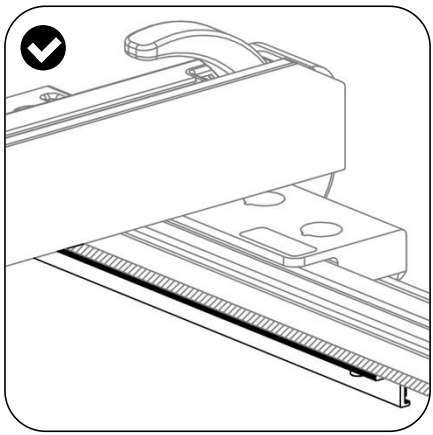




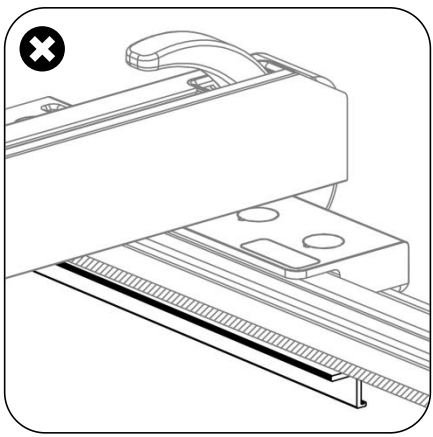
1. 将 B-52 直靠尺的靠山调至**高靠山状态**并锁紧；
2. 移动直靠尺，使靠山轻贴锯片后锁紧直靠尺；
3. 移动刻度尺组件，使其数字“2”对应的刻度线与 **BIG EYE** 罩壳**左侧面**目测对齐；
4. 将 **STEP 1** 中预装的 5 颗 M6 螺钉预紧。

5.1 安装刻度尺组件---STEP 5

工序内容：该工序为锁紧刻度尺组件，在刻度尺组件与前导轨平行的情况下，将 5 颗 M6 螺钉锁紧。



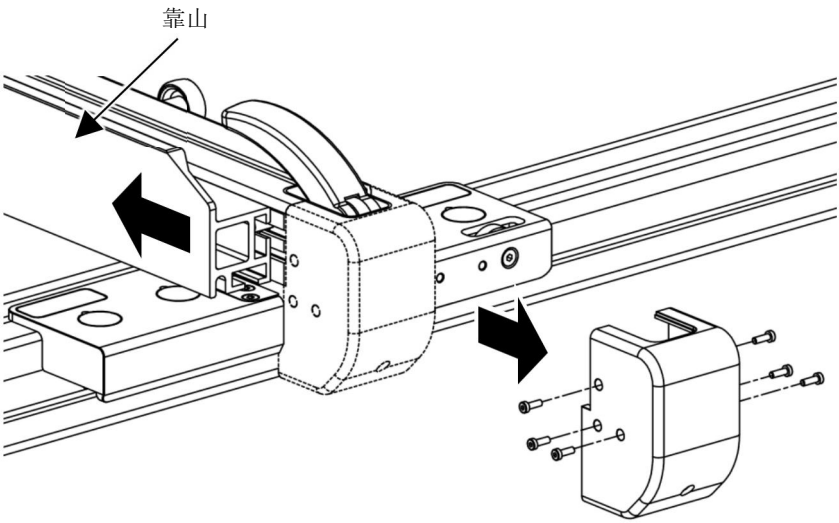
刻度尺组件与前导轨平行



刻度尺组件与前导轨不平行

5.2 安装摄像头组件---STEP 1

工序内容：拆除原罩壳。

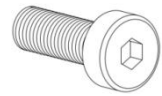


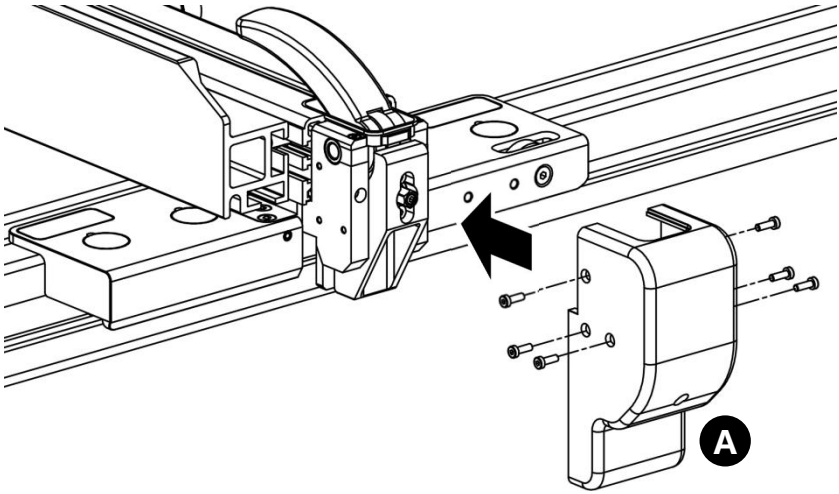
1. 锁紧直靠尺！
2. 前移靠山至图示位置后锁紧；
3. 使用内六角扳手拆除 **BIG EYE** 罩壳两侧 6 颗 M4×12 螺钉，平行向外拉出罩壳。（该罩壳后续不再使用）

5.2 安装摄像头组件---STEP 2

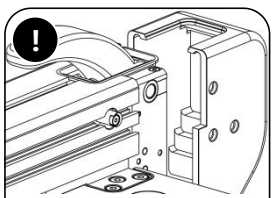
工序内容：将摄像头组件安装到 **BIG EYE** 直靠尺本体上，代替原罩壳。

M4×12 内六角螺钉（6 个）

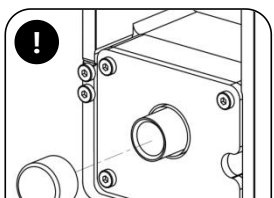




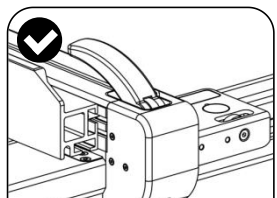
参考图示安装摄像头组件，锁紧两侧 6 颗 M4×12 螺钉。



注意：罩壳应平行移动，避免磕碰。

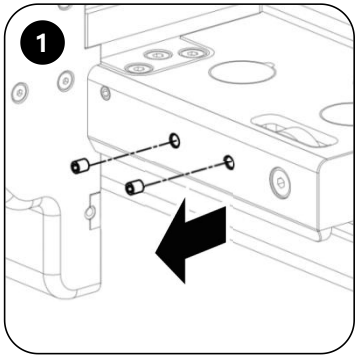


使用前摘下镜头盖。

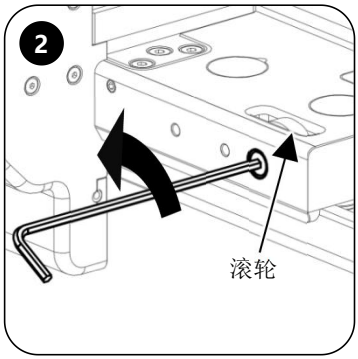


5.3 安装显示屏组件---STEP 1

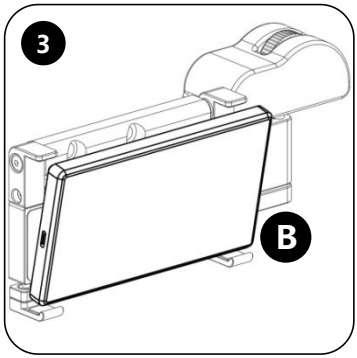
工序内容：安装前的准备。



拆除图示螺钉，该螺钉后续不再使用。



如图示，旋转滚轮转轴半圈，使滚轮与前导轨处于非接触状态。

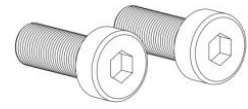


产品出货时，显示屏预装在显示屏安装支架上，安装显示屏组件前先将显示屏取出，并妥善放置。

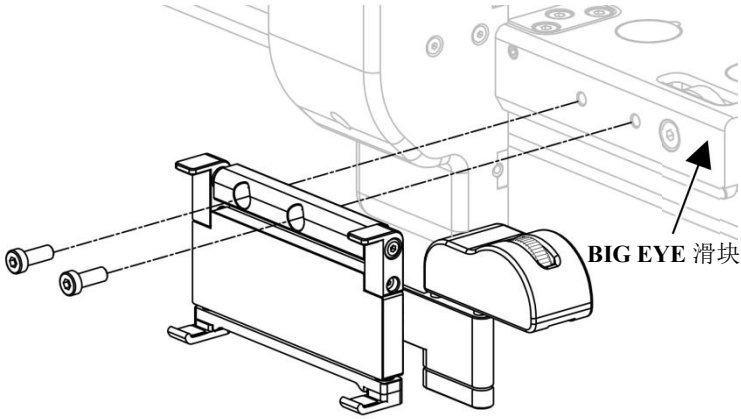
5.3 安装显示屏组件---STEP 2

工序内容：将显示屏组件安装到滑块上。

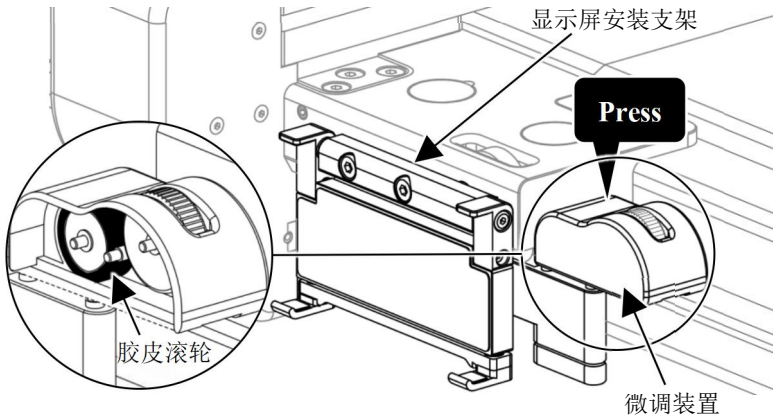
J **M6×16 内六角螺钉（2 个）**



1 如图示，用 2 颗 M6x16 螺钉将显示屏安装支架预装到 **BIG EYE** 滑块上。



2 如图示，向下按压微调装置，使内部胶皮滚轮贴紧前导轨。在确保显示屏安装支架与 BIG EYE 滑块水平平行的情况下，锁紧 2 颗 M6x16 螺钉。



5.3 安装显示屏组件---STEP 3

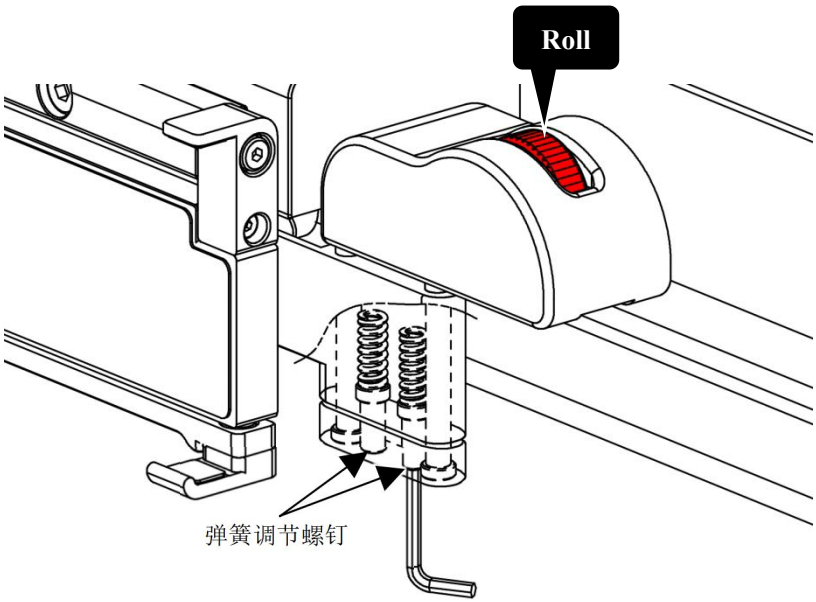
工序内容：调整弹簧松紧。

微调装置依靠显示屏安装支架内置的两根弹簧的弹力贴紧在 BIG EYE 前导轨上。调节此弹簧弹力的步骤为：

1. 松开 **BIG EYE** 直靠尺的锁紧把手！
2. 如图示，使用内六角扳手，顺时针旋转弹簧调节螺钉 2 圈；
3. 在直靠尺处于非锁紧状态下，滚动红色滚轮，如能使直靠尺轻松前进或后退，即为调节成功；如直靠尺不能顺畅移动，重复步骤 2，继续调节弹簧弹力。

备注：顺时针旋转弹簧调节螺钉，增加弹簧压力；

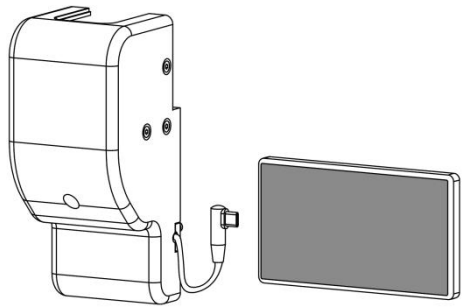
逆时针旋转弹簧调节螺钉，减小弹簧压力。



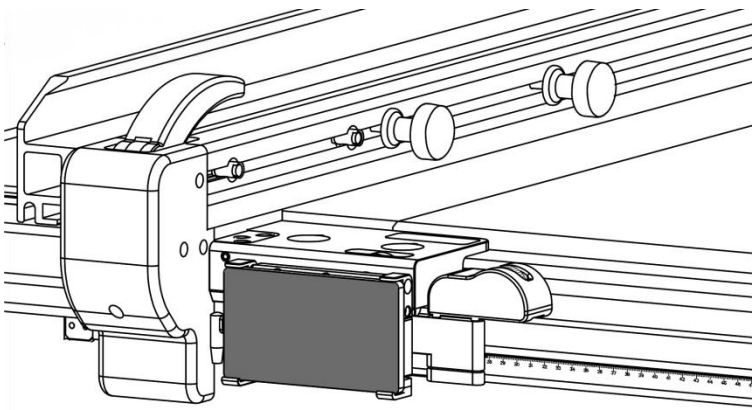
5.3 安装显示屏组件---STEP 4

工序内容：安装显示屏。

1 将摄像头组件引出的 Type-C 接头，插接至显示屏对应接口。



2 如图示，将显示屏安装到显示屏安装支架上。



注意：

本产品兼容HW110S/HW110LC/HW110TC等台锯型号，因不同机型结构存在差异，倾角仪固定座的安装方式不同。安装前请先确认您的设备型号，并按照对应的安装说明进行操作：

针对HW110S系列，参考5.4章进行安装；

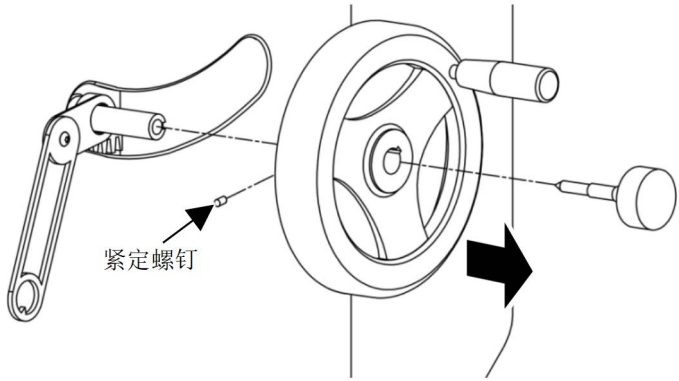
针对HW110LC及HW110TC系列，参考5.5章进行安装；

5.4 安装倾角仪固定座---HW110S 系列 STEP 1

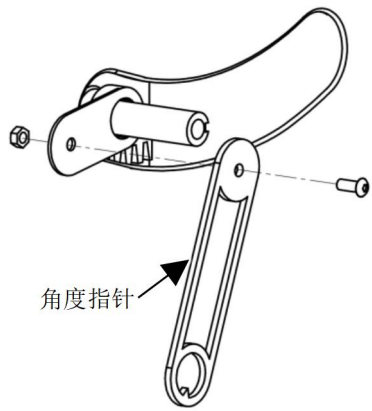
针对 HW110S 系列台锯，倾角仪固定座直接安装在原指针支架上。

1. **将锯片调至 90°。**

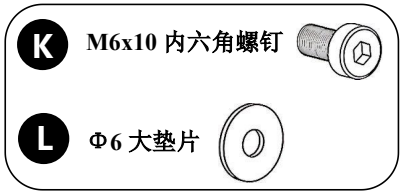
2. 如图示，松开固定手轮的紧定螺钉，拆下**锯片升降手轮**。



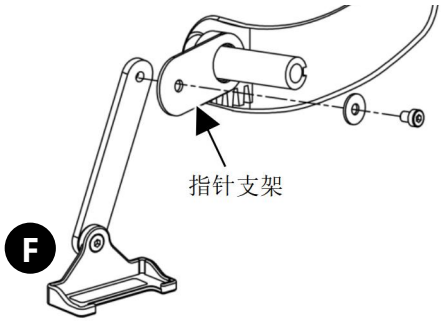
3. 如图示，使用随机提供的两用扳手和内六角扳手拆下角度指针。



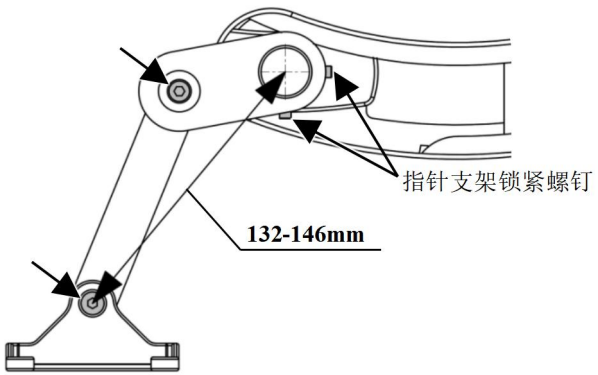
5.4 安装倾角仪固定座---HW110S 系列 STEP 2



1 如图示，使用内六角扳手，将倾角仪固定座安装至指针支架后侧，预紧。

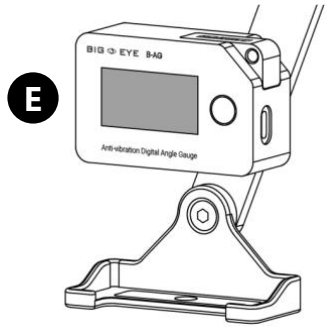


2 旋松指针支架锁紧螺钉，参考图示位置，确定指针支架及倾角仪固定座的位置，并锁紧全部螺钉。



5.4 安装倾角仪固定座---HW110S 系列 STEP 3

1 将倾角仪放置于倾角仪固定支座。



2 重新装上手轮。

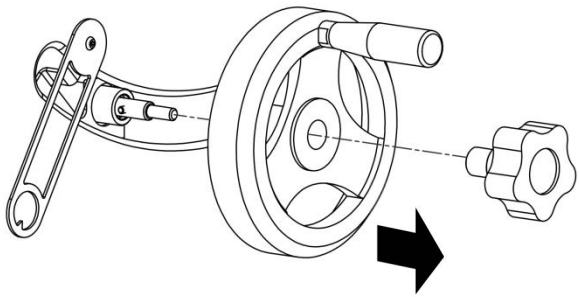
3 调节锯片倾角，在整个 90°-45°倾角内，检查是否干涉，若无干涉，则安装成功；若出现干涉，请回到 **5.4** STEP 2 重新调整。

5.5 安装倾角仪固定座---HW110LC/TC 系列 STEP 1

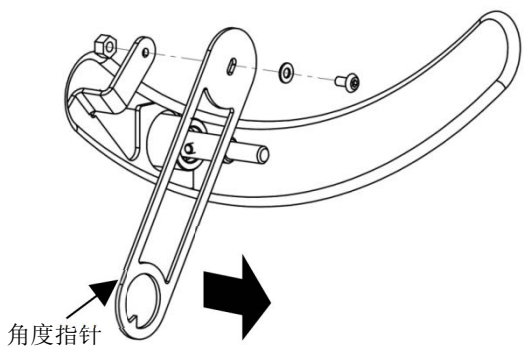
针对 HW110LC 系列及 HW110TC 系列台锯，需拆除角度指针，将倾角仪固定支架叠放在指针支架下方。

1. **将锯片调至 90°。**

2. 如图示，拆下**锯片升降手轮**。

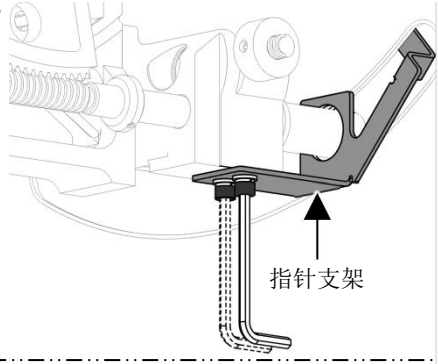


3. 如图示，使用随机提供的两用扳手和内六角扳手拆下角度指针。

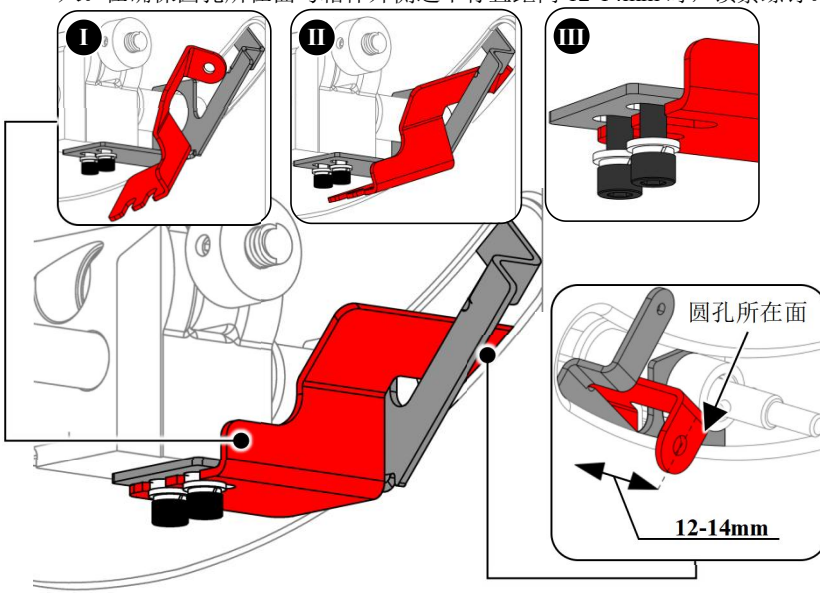


5.5 安装倾角仪固定座---HW110LC/TC 系列 STEP 2

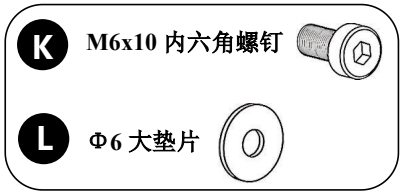
1 打开电机罩，如图所示，找到固定指针支架的 2 颗 M6 内六角螺钉，逆时针旋松 4 圈。



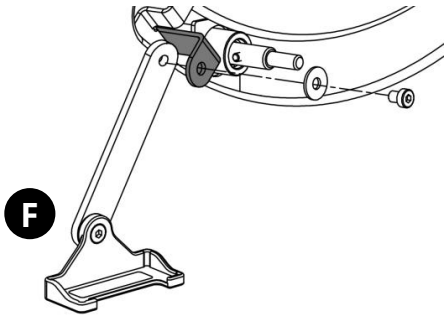
2 如图示从箱体内部，先将倾角仪固定座的单独圆孔端穿过箱体开槽，伸出箱体外。再将该支架叠放在指针支架下方，将其开口槽对准 M6 螺钉后推入。在确保圆孔所在面与箱体外侧边平行且距离 12-14mm 时，锁紧螺钉。



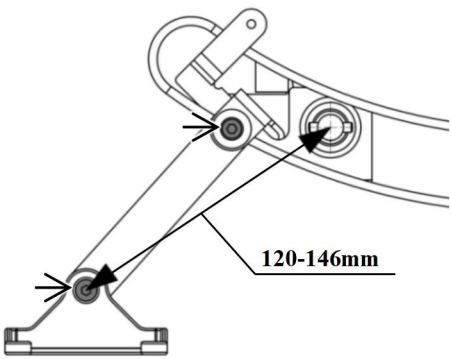
5.5 安装倾角仪固定座---HW110LC/TC 系列 STEP 3



1 如图示，使用内六角扳手，将倾角仪固定座安装至倾角仪安装支架后侧，预紧。

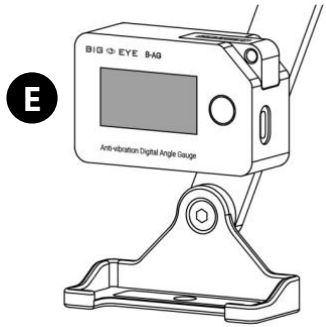


2 参考图示，调整倾角仪固定座的位置，并锁紧全部螺钉。



5.5 安装倾角仪固定座---HW110LC/TC 系列 STEP 4

1 将倾角仪放置于倾角仪固定支座。

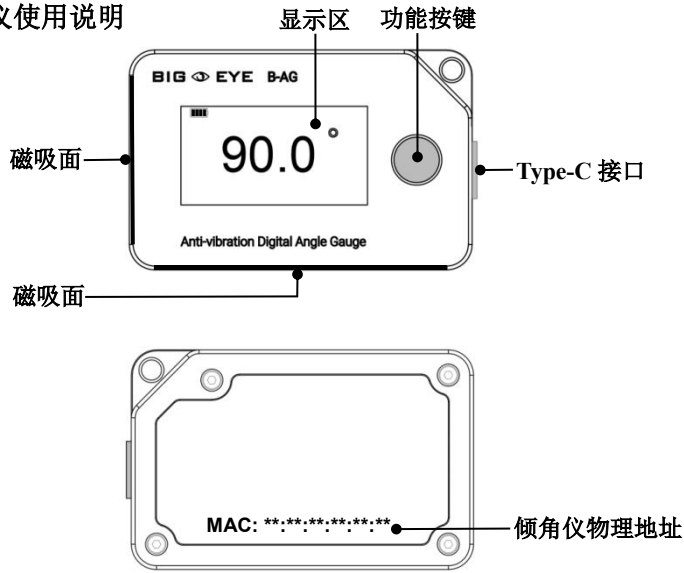


2 重新装上手轮。

3 调节锯片倾角，在整个 90°-45°倾角行程内，检查是否干涉，若无干涉，则安装成功；若出现干涉，请回到 **5.5** STEP 3 重新调整。

6. 使用

6.1 倾角仪使用说明

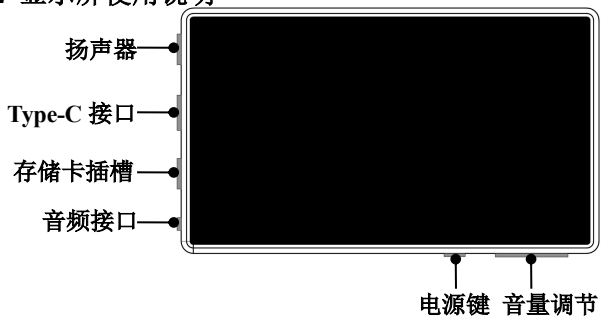


- **显示区**：该区域显示角度值，左上角显示电量。
- **磁吸面**：该产品提供两个强磁吸附面，可任选一个进行使用。
- **Type-C 接口**：倾角仪充电接口。
- **功能按键：**

5. 开机：关机状态下，短按该按键开机；
6. 关机：显示状态下，短按该按键关机；
7. 90°复位：长按该按键约 2–3 秒，角度显示值将复位至 90.0°。
8. 唤醒：休眠状态下，短按该按键唤醒。

备注：在静止无操作的情况下，倾角仪于 2 分钟后自动息屏，进入休眠状态，以节省电量。休眠状态下，即使倾角仪角度改变也不会自动亮屏，如需通过倾角仪查看角度，请手动唤醒。倾角仪处于休眠状态，仍能通过蓝牙进行数据传输。

6.2 显示屏使用说明



备注：针对本产品，存储卡插槽及音频接口无实际功能；

扬声器及音量调节键的使用与其他移动电子设备一致；

- **Type-C 接口：**

1.显示屏充电接口。**注意：请务必使用输出为 5V 1A 的标准充电器进行充电**；

2.连接摄像头组件，给摄像头供电，并进行数据传输；

- **电源键：**

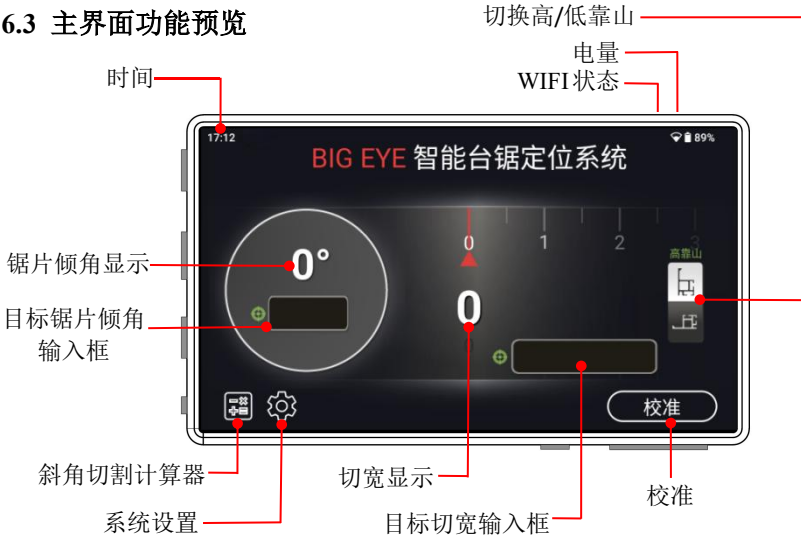
1. 开机：长按电源键 4 秒，出现“HARVEY”标识后等待约 30 秒，系统将显示开机安全警告，请仔细阅读后点击“HOME”进入主界面；

2. 关机/重启：在亮屏状态下长按电源键，弹出选择对话框“关机/重启/截屏”，从中点击“关机”或“重启”。针对本产品，“截屏”选项无实际功能；

3. 息屏/唤醒：常亮状态下，短按电源键息屏；息屏状态下，短按电源键唤醒；

备注：在整机静止无操作的情况下，显示屏于 15 分钟后自动息屏，进入休眠待机状态，以节省电量。休眠状态下，即使切宽/锯片倾角改变也不会自动亮屏，如需通过显示屏监看，请手动唤醒。

6.3 主界面功能预览



- **系统设置：**点击，进入“系统设置”，可设置时间、语言、WIFI、蓝牙、声音及参数，具体操作详见 6.4；
- **时间：**显示当前时间，可通过“系统设置”进行调整；
- **WIFI：**显示当前 WIFI 连接状态，可通过“系统设置”进行调整；
- **电量：**显示当前电量，电量低于 20%时数值将标红提示，建议尽快充电（可使用内附数据线）；
- **校准：**点击，进入“校准”模块，具体操作详见 6.5；
- **切换高/低靠山：**点击，可切换高/低靠山，具体操作详见 6.6；
- **切宽显示：**显示纵向切割锯切宽度；
- **锯片倾角显示：**显示锯片倾角（锯片垂直于工作台面的倾角定义为 90° ）。
- **目标切宽输入框：**点击，可输入目标切宽值，预设功能具体操作详见 6.7；
- **目标锯片倾角输入框：**点击，输入目标锯片倾角，预设功能具体操作详见 6.7；
- **斜角切割计算器：**点击，进入“斜角切割计算器”，此模块可快速计算斜角切割时所需长度、厚度与角度，具体操作详见 6.8；

6.4 系统设置

点击“”进入系统设置界面，如下图所示。

- **日期和时间**

  点击“日期和时间”，设置当前日期、时间及时区。

- **语言**

  点击“语言”，选择系统界面语言（当前支持英语/中文）。

- **WIFI**

  点击“WIFI”，进行 WIFI 设置。

  （**提示：**WIFI 处于关闭状态，不影响设备正常使用，但如需执行系统更新，请确保 WIFI 正常连接。）

- **蓝牙**

  点击“蓝牙”，进行蓝牙设置。

  （**提示:**本显示屏蓝牙功能用于同倾角仪通讯。为确保数据正常传输，须始终保持蓝牙开启并正确配对连接，具体操作详见 6.5.1。）

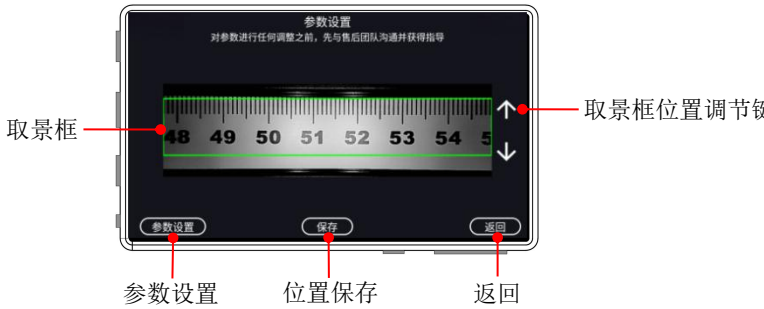
- **声音**

  点击“声音”，对系统声音进行设置。

6.3.2 系统设置（续）

- **参数设置**

点击“参数设置”出现以下界面。

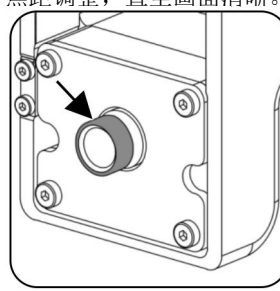


- **取景框：**摄像头取景框；
- **取景框位置调节键：**按“↑”取景框上移，按“↓”取景框下移；
- **参数设置：**点击，进入系统参数设置界面，进入该界面需输入密码，仅针对售后开放；
- **保存：**点击，保存当前取景框位置；
- **返回：**点击，返回系统设置界面；

该设备通过摄像头来精确定位直靠尺。为确保识别准确，请通过本界面检查拍摄画面是否清晰，取景框位置是否符合要求。

1 画面清晰度调节

在出货前，摄像头已预调焦。若仍出现画面模糊，可旋转摄像头前端的磨砂凸起部分进行焦距调整，直至画面清晰。

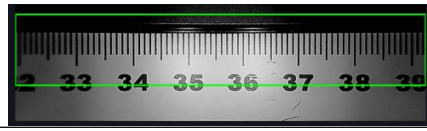
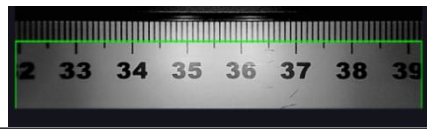


6.3.2 系统设置（续）

② 取景框位置调节

为确保识别准确，取景框上边沿应对齐刻度线上端起点（允许略低于起点），并要求取景框完全覆盖已显示的数字。点击取景框位置调节键，可以上下移动取景框位置。确认取景框位置正确后，点击“保存”。

备注：取景框正确及错误示例如下图

取景框图示	矫正方式
	正确
	下调取景框位置
	上调取景框位置
	下调取景框位置

6.5 校准

- **在首次使用之前，需要进行校准；**
- **每次更换锯片/靠山时，都必须进行校准。**
- **每次锯切前必须锁紧靠山及直靠尺。**
- **每完成一个步骤可点击“下一步” 进入下一个步骤，或点击“上一步”返回上一个步骤，如不需要进行后续校准，可直接点击“HOME”回到主界面。**

主界面点击“校准”进入校准界面，如下图所示

根据需求选择对应的校准流程，按对应章节执行操作：

- **校准：**完整校准流程，按 6.5.1 进行校准；
- **仅更换锯片校准：**更换锯片后，校准锯片参数，按 6.5.2 进行校准；
- **仅更换靠山校准：**更换靠山后，校准高/低靠山参数，按 6.5.3 进行校准；

6.5.1 校准

主界面点击“校准”进入校准页面。

选择“校准”，点击下一步进入校准流程。

步骤 1：绑定倾角仪设备

系统自动搜索工作区域内的倾角仪。请从列表中选择对应倾角仪MAC地址，点击“绑定设备”。

（操作前提：1.倾角仪需处于开机状态并安装在倾角仪固定座上；2.首次连接耗时约30秒；3.倾角仪MAC地址标识于设备背面壳体上。）

6.5.1 校准（续 1）

步骤 2：单位设置

选择您需要的单位。

备注：1. 英制单位可选择分数或小数形式。

2. 使用不同单位输入的数值精度要求为：

- 公制单位精确至小数点后一位。
- 英制单位若采用小数形式，可保留至小数点后四位。

步骤 3：输入锯片参数

在对应输入框内输入目前所使用锯片的本体厚度及锯齿宽度。

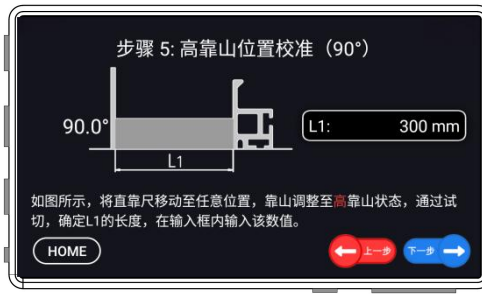
6.5.1 校准（续 2）

步骤 4：角度校准

按屏幕显示信息进行操作。

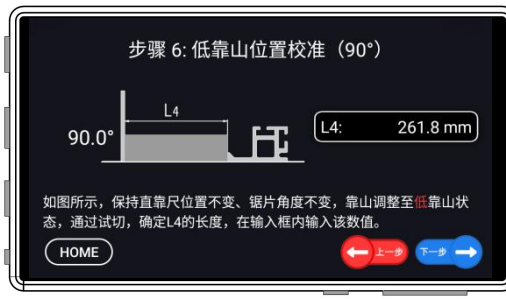
步骤 5：高靠山位置校准（90°）

按屏幕显示信息进行操作。



步骤 6：低靠山位置校准（90°）

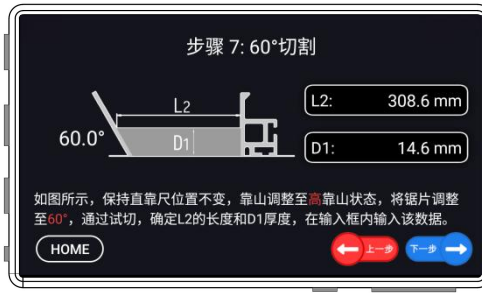
按屏幕显示信息进行操作。



6.5.1 校准（续 3）

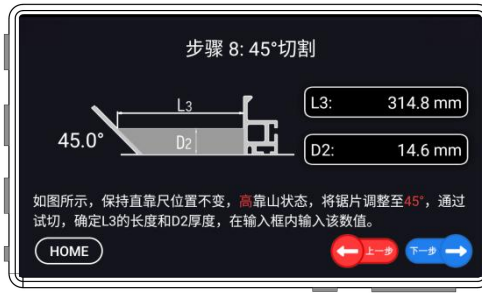
步骤7：60°切割

按屏幕显示信息进行操作。



步骤8：45°切割

按屏幕显示信息进行操作。



完成所有操作，校准成功，可正常使用！

6.5.2 仅更换锯片校准

当设备更换锯片后，需执行本项校准，以保证台锯的锯切精度。

主界面点击“校准”进入校准页面。

选择“仅更换锯片校准”，点击下一步进入锯片校准。

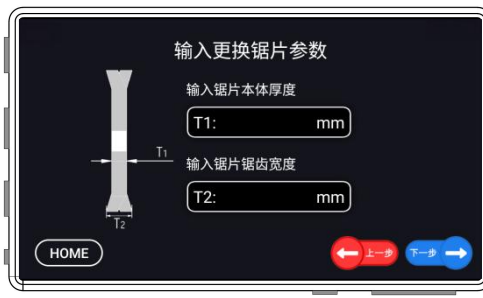
步骤1：输入锯片参数

在对应输入框内，输入更换后锯片的本体厚度与锯齿宽度。

注意使用不同单位输入的数值精度要求为：

公制单位精确至小数点后一位。

英制单位若采用小数形式，可保留至小数点后四位。



6.5.3 仅更换锯片校准（续）

完成操作后，校准成功，可正常使用！

6.5.4 仅更换靠山校准

当设备更换直靠尺靠山后，需执行本项校准，以保证台锯的锯切精度。

主界面点击“校准进入校准页面。

选择“仅更换锯片校准”，点击下一步进入锯片校准。

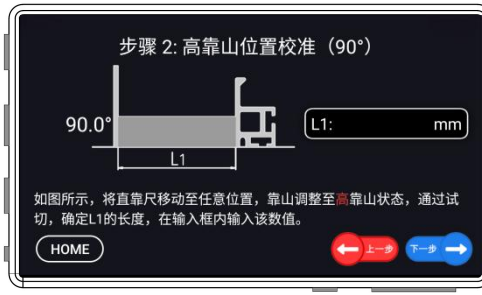
步骤1：角度校准

按屏幕提示信息进行操作。

6.5.3 仅更换靠山校准（续）

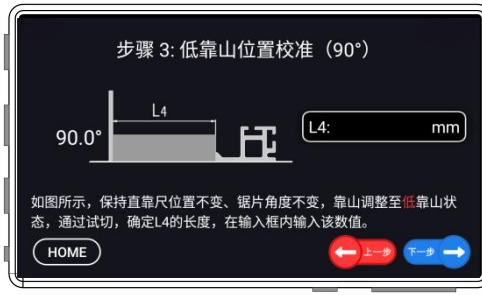
步骤2：高靠山位置校准（90°）

按屏幕要求进行操作



步骤3：低靠山位置校准（90°）

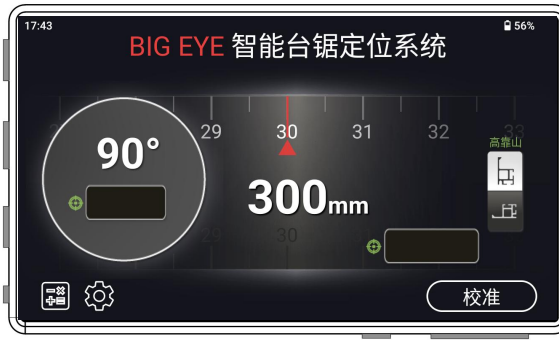
按屏幕要求进行操作。



完成所有操作，校准成功，可正常使用！

6.6 高/低靠山切换

正常使用时需确认靠山处于高靠山状态还是低靠山状态，并确保显示屏上的靠山模式与其保持一致。点击“  ”，主界面显示高靠山模式，点击“  ”，主界面显示低靠山状模式。



高靠山模式

低靠山模式

6.7 目标切宽的设置

点击目标切宽输入框，可设定目标切宽值。当移动直靠尺接近目标时，显示屏会通过发出声音及主界面数值颜色变化提示状态。声音及颜色变化情况如下：

1. 未到目标值，差距≤5 mm：目标值标红，发出持续、均匀的提示音。
2. 差距＝0 mm：目标值、实时切宽值均变为绿色，发出“成功”的提示音效（不循环）。
3. 若继续移动，偏差±1mm 内：目标值变为红色，无提示音。
4. 偏差 1-5mm：目标值保持红色，发出持续、均匀的提示音。
5. 偏差＞5mm：目标值恢复白色，提示音停止。

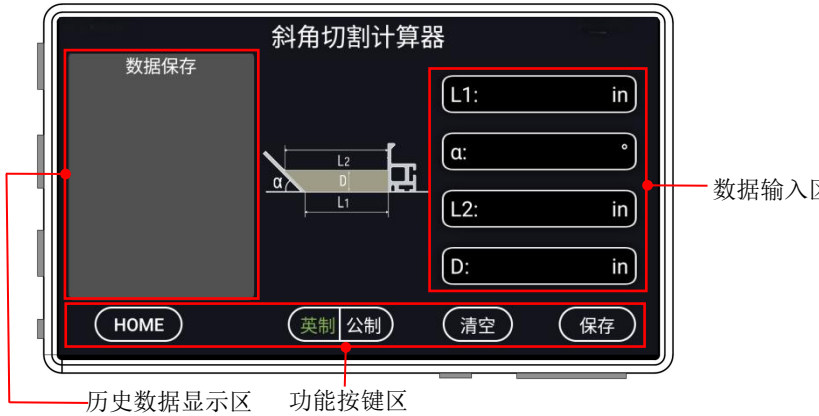
6.8 目标锯片倾角的设置

点击目标锯片倾角输入框，可输入目标倾角。当调节锯片倾角接近目标时，显示屏会通过发出声音及主界面数值颜色变化提示状态。声音及颜色变化情况如下：

1. 未到目标倾角，差距≤1°：目标值标红，显示屏发出持续、均匀的提示音。
2. 差距＝5°：目标倾角、实时锯片倾角均变为绿色，发出“成功”的提示音效（不循环）。
3. 若继续调节，偏差±0.5°内：目标值变为红色，无提示音。
4. 偏差 0.5°-1°：目标值保持红色，发出持续、均匀的提示音。
5. 偏差＞1°：目标值恢复白色，提示音停止

6.9 斜角切割计算器

点击“ ”进入斜角切割计算器。



- **功能按键区：**

5. 保存：点击可将当前数据输入区中的数据存储到历史数据显示区；

6. 清空：点击可将当前数据输入区中的数据全部清除；

7. 英制/公制：点击可切换数据输入区使用的单位，标记绿色的为当前使用单位；

8. HOME：点击回到主界面。

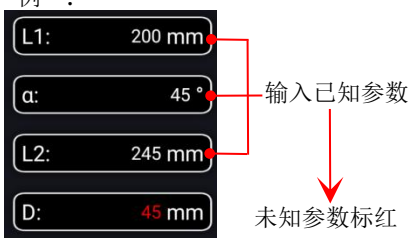
- **数据输入区：**

以下四个参数，输入其中三个，即自动计算出剩余一个（显示红色）：

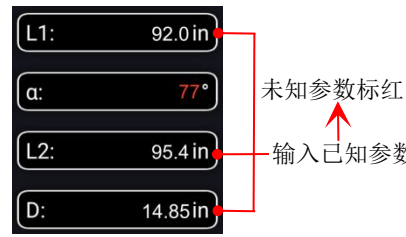
L1：锯切截面底边长度　　α：切割角度（α≠0°、90°、180°……）

L2：锯切截面顶边长度　　D：木料厚度

例一：



例二：



6.9 斜角切割计算器（续）

- **历史数据数据显示区**

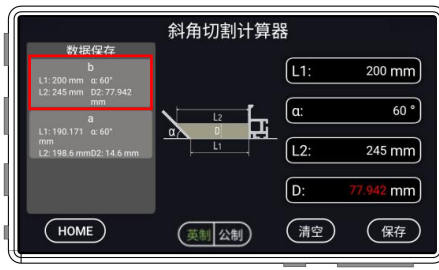
滑动历史数据显示区可查找已存储的数据。

存储数据方式为：

❶ 点击保存，在跳出的对话框中给当前数据输入区中的数据组命名。点选“确定”即可保存该组数据。

删除数据方式为:

❶ 长按目标数据组：



❷ 点击确定，即可删除目标数据组

7. 保养维护

7.1 清理和维护

- 定期使用气枪清除锯屑，并用干净的抹布擦拭表面灰尘。
- 长期存放时，建议关闭显示屏与倾角仪，并定期为其充电维护。

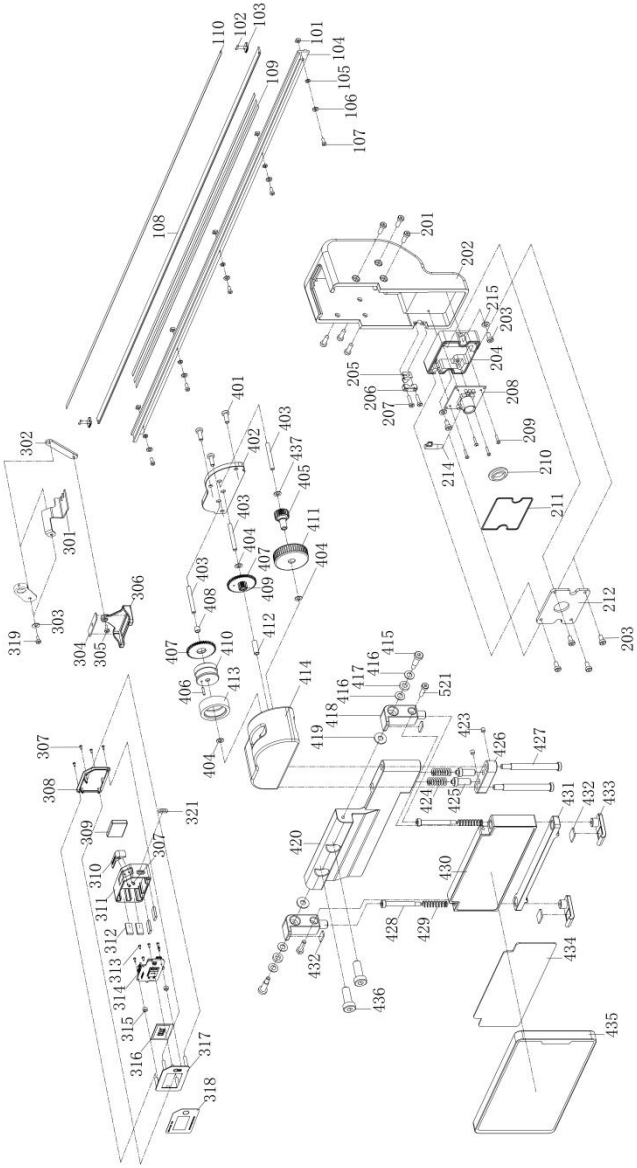
7.2 版本更新

- 可定期打开显示屏 WIFI，以便接收版本更新信息。若软件有新版本，系统设置中新版本号将以红色标识提示。
- 直接点击标红的版本号，系统自动完成版本更新。

7.3 定期校准

- 为保证切割精度，建议每月进行一次完整校准。
- 在更换锯片、更换靠山或进行机械维护后，需进行校准。

Exploded View and Parts List



List

REF	DESCRIPTION	NUM	REF	DESCRIPTION	NUM
101	Square Nut	5	306	Base	1
102	Set Screw M4x4	4	307	Hex Screw M2x5	6
103	Scale Stop	2	308	Back Cover	1
104	Scale Mounting Base	1	309	Battery	1
105	Washer 6	5	310	Decorative Block	1
106	Spring Washer 6	5	311	Housing	1
107	Hex Screw M6x16	5	312	Magnet	4
108	Scale Base	1	313	Pan Head Screw M2x5	6
109	PVD Patch	3	314	Circuit Board	1
110	Ruler	1	315	Spacer	2
201	Hex Screw M4x12	6	316	Display	1
202	Housing	1	317	Front Panel	1
203	Hex Screw M3x8	6	318	Protective Film	1
204	Camera Module Housing	1	319	Hex Screw M6x10	1
205	Cable Seal	1	321	Waterproof Rubber Seal	1
206	Cable Clip	1	401	Hex Screw M3x8	3
207	Hex Screw M3x12	2	402	Fine-adjustment Cover	1
208	Camera	1	403	Pin 3x25	3
209	Pan Head Screw M2x5	4	404	Washer φ3-φ15-0.5	3
210	Camera O-Ring	1	405	Primary Gear	1
211	Rubber Strip	1	406	Spring Pin 3x8	1
212	Clear Cover	1	407	Main Gear	2
214	Right Angle Type-C Cable	1	408	Short Spacer	1
215	Washer φ3-φ6-0.5	2	409	Secondary Gear	1
301	Anti-Vibration Digital Angle Gauge Mounting Bracket	1	410	Roller	1
302	Bracket	1	411	Fine-adjustment Knob	1
303	Flat Washer 6	1	412	Long Spacer	4
304	Stainless Steel Patch	1	413	Roller Rubber	1
305	Hex Screw M6x8	1	414	Fine-adjustment Housing	1

List

REF	DESCRIPTION	NUM	REF	DESCRIPTION	NUM
415	Bracket Shaft	2	427	Guide Rod	2
416	Washer φ4-φ7-0.5	4	428	Bracket Guide Rod	2
417	Spacer φ4-φ7-2	2	429	Bracket Spring	2
418	Upper Bracket	2	430	Bracket Body	1
419	Washer φ4-φ10-1	2	431	Lower Bracket Connector	1
420	Bracket	1	432	Silicone Pad	4
421	Hex Screw M3x12	2	433	Lower Bracket	2
423	Set Screw M3x3	2	434	Silicone Pad	2
424	Spring	2	435	Display	1
425	Screw	2	436	Hex Screw M6x16	2
426	Guide Block Connector	1	437	Washer φ3-φ7-0.5	2

Good Enough Is Not Enough

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