

1. SCOPE:

This Quick Installation Guide provides step-by-step instructions for the installation and initial setup of the Traverse 2.1 system. It is designed to help users complete the installation process quickly, safely, and efficiently, ensuring proper connections, configuration, and basic operation. By following the procedures outlined in this guide, users will be able to prepare the system for operation and verify that it is functioning correctly.

2. QUICK INSTALLATION:

Here are the steps to follow to install the Traverse 2.1:

➤ STEP 1: Verify that your Traverse 2.1 package is complete

Before starting the installation, verify that your **Traverse 2.1** package is complete and includes the following items:

- **Traverse 2.1 unit** (with the tachometer sensor installed)
- **Touchscreen stylus**, located in the holder attached to the display.
- **Power supply**
- **Connection cables** for the Mojotone winding machine.
- **Two adhesive stickers** for mounting the tachometer.

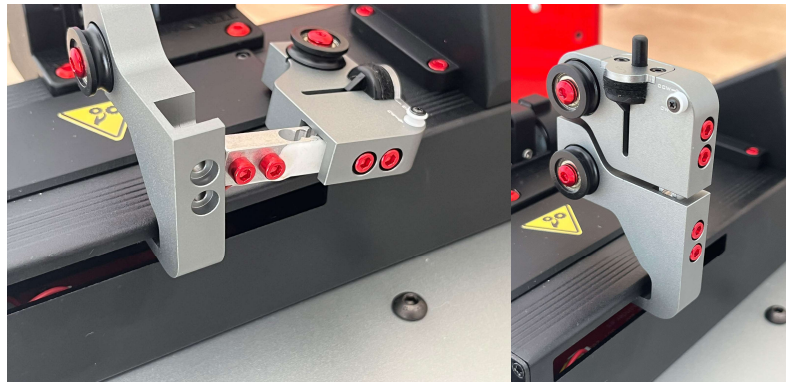


Make sure all components are present and in good condition before proceeding with the installation.

➤ **STEP 2: Remove Protective Packaging and Install the Arm**

Carefully remove the protective foam from the arm and the adhesive tape securing the sensor.

Next, position the upper part of the arm vertically, in its normal operating position, and secure it using the two supplied M3 × 6 mm screws. A 2.5 mm Allen key (hex key) is required.



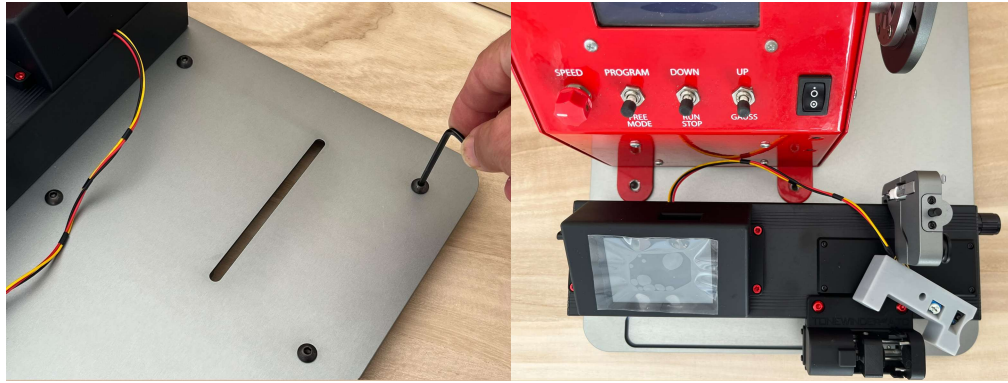
Important:

- Do not overtighten the screws, as they are made of aluminum.
- Be careful with the wires during installation to avoid pinching or damaging them.

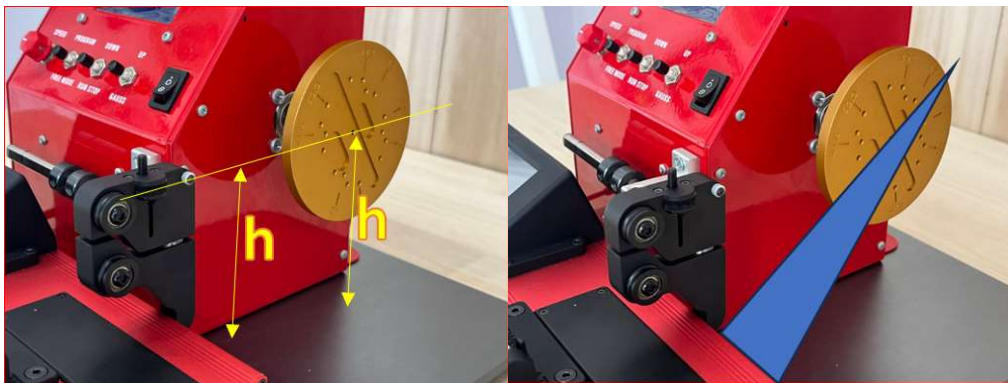
Make sure the arm is correctly positioned and securely fastened before proceeding to the next step.

➤ STEP 3: Mount the Mojotone Winder.

Remove the four mounting screws from the Mojotone winding machine.



Next, carefully place the Mojotone winder onto the **Traverse 2.1 base**, ensuring that the mounting holes are properly aligned.



Reuse the four screws to securely fasten the winder to the base.



Make sure the winder is correctly positioned and firmly attached before proceeding to the next step.

➤ Step 4: Connect the Control Cables and Power Supplies

Connect the **control cables** between the Traverse 2.1 and the Mojotone winder, making sure each cable is connected to its corresponding connector.

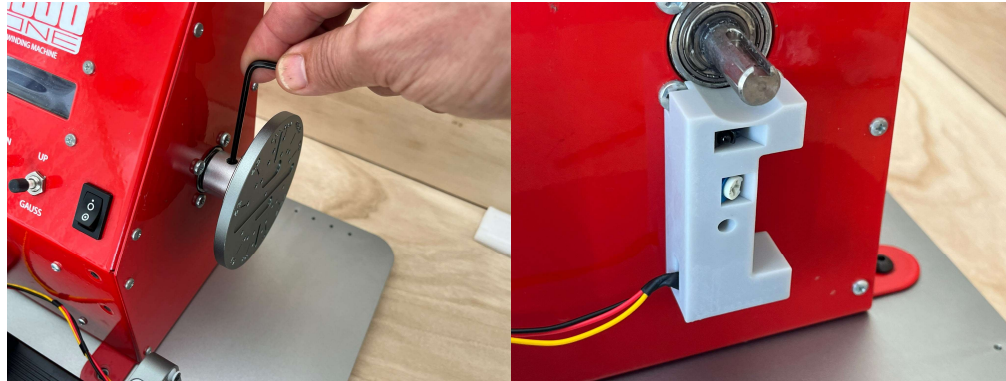
Important: Do not interchange the control cables, as incorrect connections will prevent the Traverse 2.1 from properly controlling the Mojotone winder.



Next, connect the **power supplies to both devices**, ensuring that all connections are secure and properly seated before powering on the units.

➤ STEP 5: Install the Tachometer

Remove the pickup support plate from your Mojotone winder. Next, install the tachometer, which is connected to the Traverse 2.1 unit by a three-wire cable.



The tachometer is designed to fit perfectly in **one specific position** and is held securely in place by magnets. Make sure it is properly seated. If additional cable length is required, gently pull the cable from where it exits the rear of the touchscreen display.



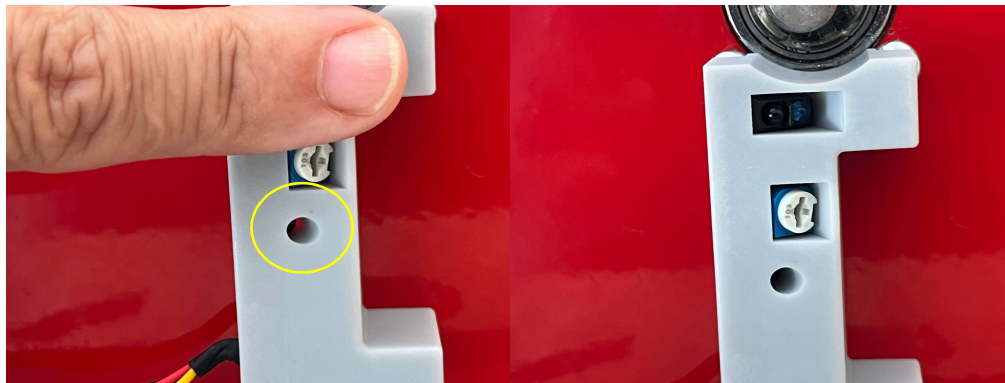
Important: Handle the cable carefully and avoid pulling it with excessive force to prevent damage to the wires or their connections.

➤ Step 6: Adjust the Tachometer Sensor

Power on your Traverse 2.1 unit to check and, if necessary, adjust the tachometer sensor.

Note: The sensors are pre-adjusted at the factory. However, minor adjustments may be required depending on the individual unit, ambient lighting conditions, and installation environment.

Under normal lighting conditions, the sensor should remain OFF when unobstructed (no red light visible inside the sensor opening).



When you place your finger over the sensor opening, blocking the light, the red LED should turn ON.

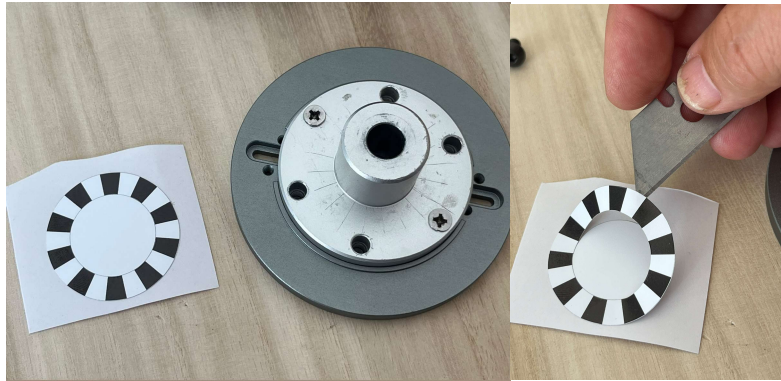
If the sensor does not respond as described, carefully adjust the potentiometer until the correct behavior is achieved.



Important: Verify that the red LED turns ON when the sensor is covered and OFF when it is uncovered. Avoid excessive ambient lighting during adjustment, as it may affect sensor operation.

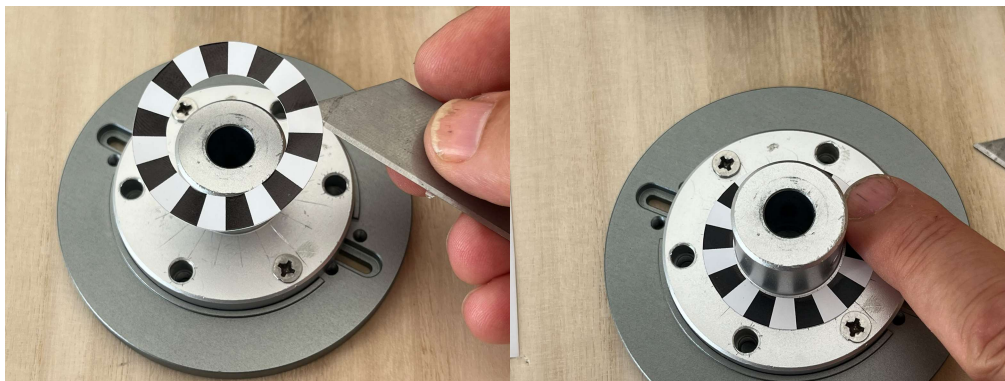
➤ Step 7: Install the Tachometer Disc

Carefully peel the **tachometer disc** from its backing sheet, using a small blade or knife to help lift the edge if necessary. The second disc is provided as a spare.



Thoroughly clean the back surface of the **pickup mounting plate** using a suitable solvent to remove any grease, dust, or residue. Allow the surface to dry completely before proceeding.

Next, carefully position the tachometer disc in the **center of the back of the mounting plate**, ensuring it is properly aligned (centered).



Press firmly and evenly with your fingers across the entire surface of the disc to ensure good adhesion.

Important:

- Handle the adhesive disc carefully to avoid bending or damaging it.
- Make sure the disc is perfectly centered and securely attached before reinstalling the mounting plate.

➤ **Step 8: Reinstall the Pickup Mounting Plate and Verify Sensor Operation**

Reinstall the pickup mounting plate on your Mojotone winder, positioning it as close to the winder body as possible.



Before fully tightening it, slowly rotate the plate by hand and verify that the red LED on the tachometer sensor turns ON and OFF as the plate rotates.

If the LED does not respond correctly, carefully perform a fine adjustment of the sensor potentiometer until the LED switches reliably between ON and OFF during rotation.



Important:

- Make sure the tachometer disc is properly aligned with the sensor.
- Verify that the LED switches consistently during a complete rotation.
- Once correct operation has been confirmed, securely fasten the mounting plate in its final position.

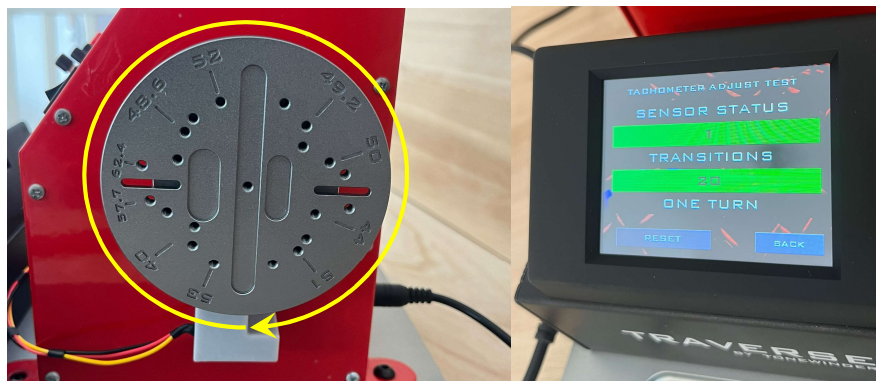
➤ Step 9: Verify Tachometer Sensor Operation

To verify that the tachometer sensor is working correctly, navigate to:

MAIN MENU → SETTINGS → BASIC PARAMETERS → Tachometer Test



Once inside the test screen, manually rotate the pickup mounting plate of your Mojotone winder **exactly one full revolution (360°)**, as accurately as possible.



The tachometer should register **20 counts per revolution**.

- **If the reading is close to 20:** Repeat the test, making sure you rotate the plate exactly one full revolution. Small deviations may be caused by inaccurate manual rotation.
- **If the reading differs significantly from 20** (for example, 5 or 35 counts): Readjust the tachometer sensor potentiometer as described in the previous steps, then repeat the test.
- **If the reading is exactly 20:** The tachometer sensor is correctly calibrated, and you can proceed to the next step.

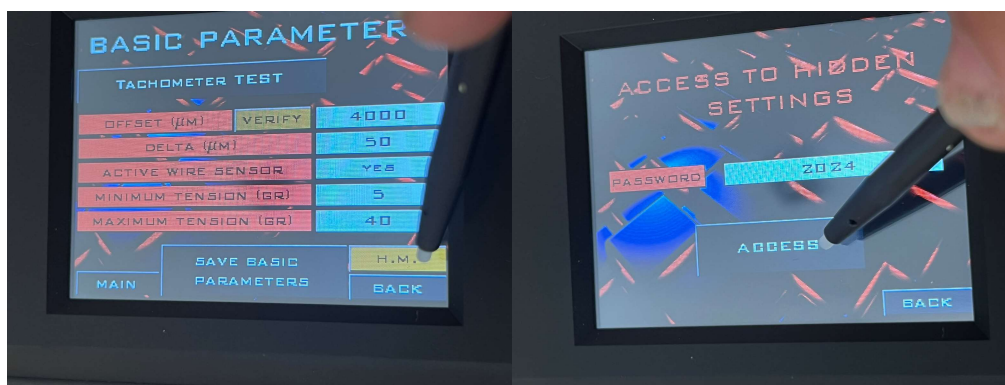
Important: The correct reading is **20 counts for one complete revolution**. Make sure the sensor consistently detects this value before continuing with the installation.

➤ Step 10: Automatic Speed Calibration

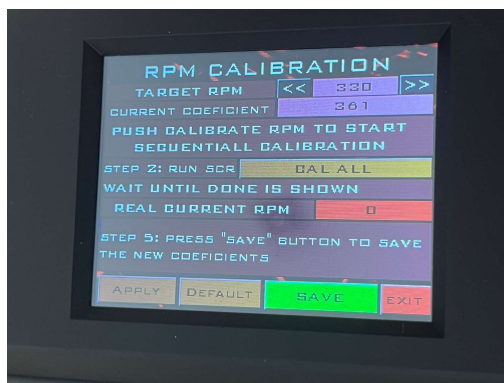
In this new version of the Traverse 2.1, speed calibration is fully automatic and takes approximately 3 minutes to complete. Before starting, power on your Mojutone winder and make sure it is properly connected to the Traverse 2.1 unit. Then, navigate to:

MAIN MENU → SETTINGS → BASIC PARAMETERS

Press the **"H.M." (Hidden Menu)** button to access the calibration settings.



Enter **2024** as the access code and select **RPM CALIBRATION**. A new screen will appear with instructions for the calibration procedure.



To start the automatic calibration, simply press the **"CAL ALL"** button. The system will automatically calibrate all speed settings without requiring any further user intervention. It will take around 3 minutes, then you have to press **APPLY**, and **SAVE**

Once calibration is complete, the system will be ready to proceed to the next installation step.

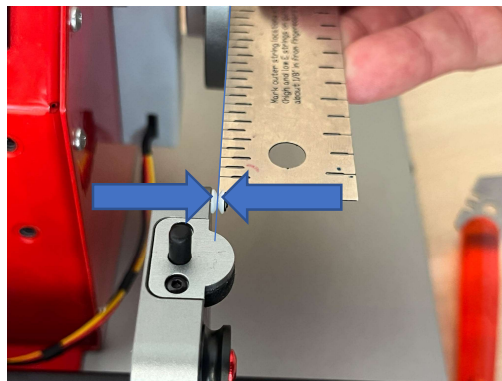
➤ Step 11: Coupling Offset Adjustment

The next step is to calibrate the coupling offset, which defines the distance between the position where the traverse arm detects the home sensor and the position where the Mojutone winder plate aligns with the output pulley (small white pulley).

To perform this adjustment, press the "Verify" button and check the alignment between the two components.



Adjust the "Offset" value as needed, repeating the verification until both elements are correctly aligned.



You can use a ruler to check the alignment more accurately.

Important:

- Make small adjustments to the Offset value to achieve precise alignment.
- Repeat/Press the verification after each adjustment.
- Once both elements are properly aligned, the coupling offset calibration is complete.



3. CONTACT FOR SUPPORTING:

If you face any kind of problem during this procedure, please contact us by email:

info@tonewinder.es