



M1 Caliber - Calibration Procedure

While all M1 Caliber Tools come with a factory calibration, an onsite calibration is recommended when first receiving the M1 to ensure the most accurate cuts possible and match your specific tape measure. Tape measures may vary based on manufacturer and class rating making it essential that a calibration is performed to match the specific tape measure blade printing. The following procedure allows the M1 to accurately convert rotary motion of the wheel to linear measurement that exactly match a specific tape measure. The following demonstration is made using wood but any material may be used should it meet the proper requirements and should match what you plan to most frequently cut with the M1 Caliber in order to ensure the most robust calibration.

For best experience, we recommend viewing our calibration video on YouTube - <https://reekon.xyz/calibration>



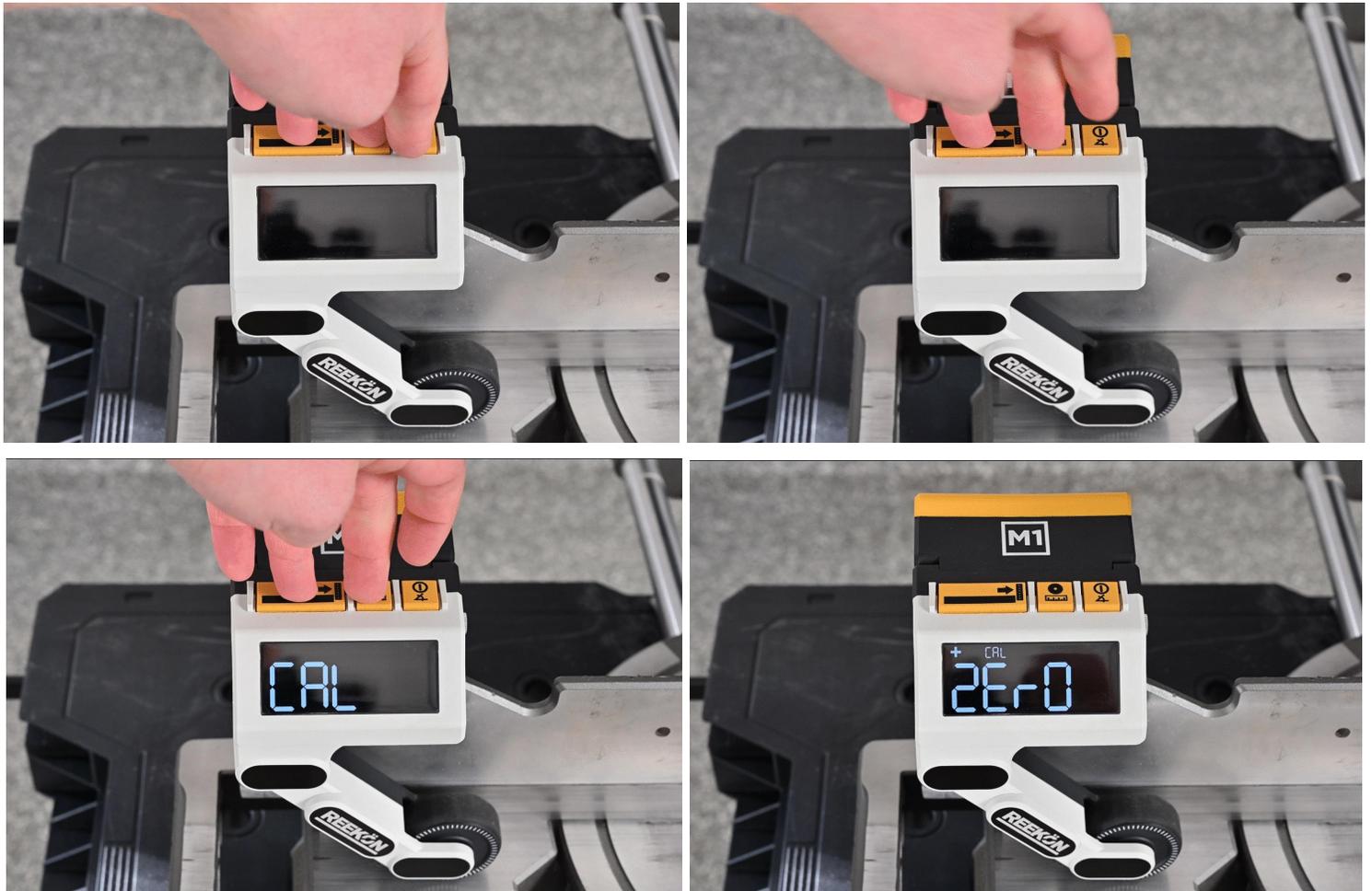
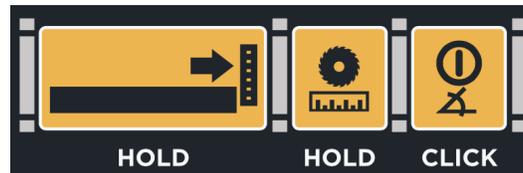
Before beginning the calibration procedure, please ensure the following:

- **The M1 is powered off**
- **The M1 is properly secured to the fence**
- **A flat, smooth, and straight piece of material at least 8 feet (2.5m) is available to use**
- **A trusted tape measure, at least 8 feet (2.5m) long, that will be commonly used, is available**
- **A sharp tip pencil or pen is available to make a mark**

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1. With the M1 powered off, turn on the M1 Caliber into calibration mode

- Hold both the zero and units button then click the power button once until "CAL" is displayed
 - Do not hold the power button, click once then release
- Screen will automatically transition the display from "CAL" to "ZERO" once buttons are released



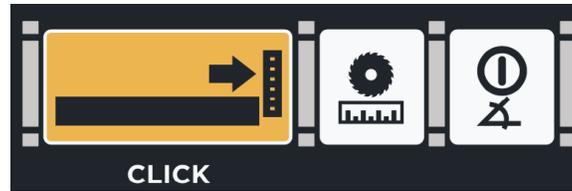
2. Slide measuring material under M1 wheel until it is slightly past the blade location

- Your measuring material should match the material you plan to cut most frequently as some materials calibrate different than other materials
- Material should be as straight and flat as possible for best results



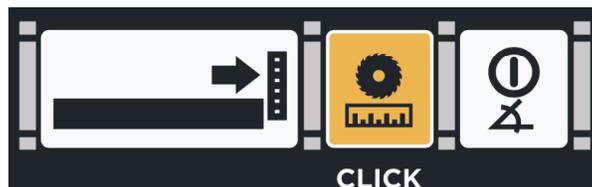
3. Cut the material and select the zero button

- The purpose of this cut is to ensure a straight reference edge to be used for the calibration.
- The zero button confirms that the cut has been made and the saw blade is aligned with the edge of the material
- **Note: Do not move material after you have made the cut before confirming zero location.**



4. Move material slightly to the right and ensure the material is stable on saw setup and select units (ft or m)

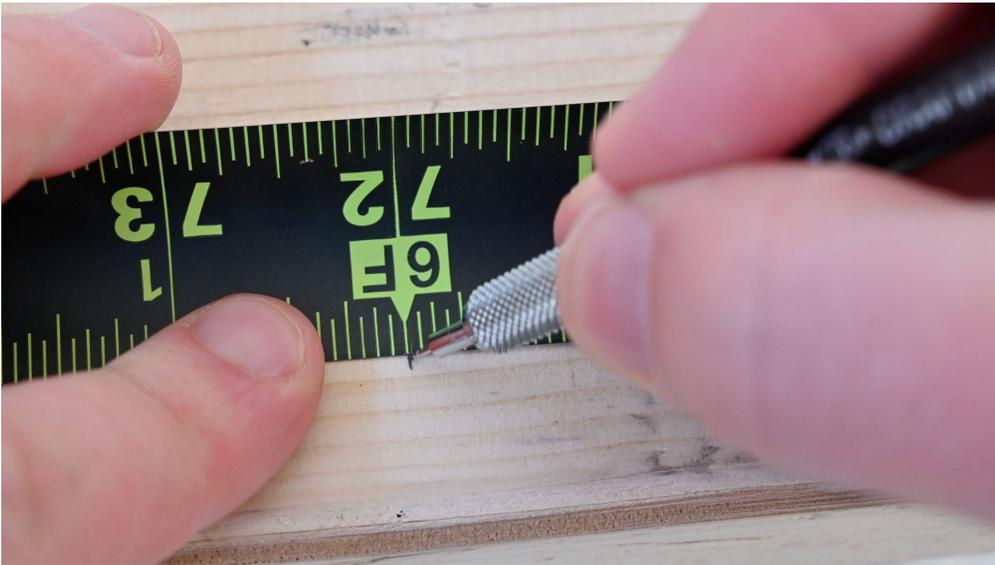
- Calibration can be done using english or metric units.



5. Using a tape measure, make a mark on the material at either 6 feet or 2 meters.

- Ensure the tape measure you are using is the one you plan to use most frequently with the M1 as the calibration will most closely match the tape measure you are using.
- Ensure mark is crisp and exact as possible

When calibrating in "ft" mode, mark exactly 6ft (72 inches) OR



When calibrating in "m" mode, mark exactly 2m (200cm)

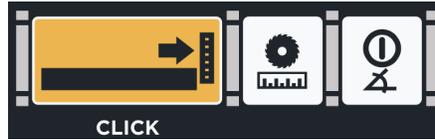


6. Slide material until mark meets the left side of the blade

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Very carefully, ensuring the back of the board is always in contact with the fence, slide the material from left to right, until **the left edge of the saw blade** is perfectly aligned with the mark made in step (5). Cutting the material is not necessary. Once aligned, select the zero button to confirm the calibration.

- Ensure your mark aligns with the teeth of the saw blade which sometimes extend outwards.
- Be sure your saw is unplugged or has its battery removed before observing saw blade location.





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- After the zero button is selected, the screen will display 72" in fractional mode for English calibrations
- After the zero button is selected, the screen will display 78 3/4" in fractional mode for Metric calibrations
- Units can be changed to your preference in the next step



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7. Verify your calibration to ensure it was completed successfully

Move material back to where the cut was made. Screen should display very close to "0" confirming the calibration was successful (some very small difference is normal due to hysteresis and accumulated error - this will not affect normal cuts made as the distance traveling forward and backwards is not made in a typical cut)

- If not successful, carefully repeat above steps.
- If you are having difficulties Calibrating your M1, please view our Calibration Troubleshooting Article for additional details and steps to try
- **Contact our support team (contact@reekon.tools) if you have any questions or concerns and we would be happy to assist!**

Appendix - Quick Start Calibration

B CALIBRATION

While all M1 Caliber Tools come with a factory calibration, an onsite calibration is recommended when first receiving the M1 to ensure the most accurate cuts possible are made that match a specific tape measure. Tape measures may vary based on manufacturer and class rating making it essential that a calibration is performed to match the specific tape measure blade printing. The following procedure allows the M1 to accurately convert rotary motion of the wheel to linear measurements that exactly match a specific tape measure.

BEFORE BEGINNING, ENSURE THE FOLLOWING:

- ✓ The M1 is powered off
- ✓ The M1 is properly secured to the fence
- ✓ A flat, smooth, and straight piece of material at least 8 ft (2.5m) is available to use
- ✓ A trusted tape measure, at least 8 feet long, that will be commonly used, is available
- ✓ A sharp tip pencil or pen is available to make a mark

1 WITH TOOL POWERED OFF, TURN ON M1 CALIBER INTO CALIBRATION MODE



2 SLIDE MEASURING MATERIAL UNDER M1 WHEEL UNTIL IS IT SLIGHTLY PAST BLADE LOCATION



3 CUT THE MATERIAL AND SELECT THE ZERO BUTTON



4 MOVE MATERIAL SLIGHTLY TO THE RIGHT AND ENSURE THE MATERIAL IS STABLE ON SAW SETUP. SELECT UNITS (FT OR M).



5 USING TAPE MEASURE, MAKE A MARK AT:

- EXACTLY 6FT (72IN) IF IN "FT" MODE
- EXACTLY 2M (200CM) IF IN "M" MODE



6 VERY CAREFULLY, ENSURING THE BACK OF THE BOARD IS ALWAYS IN CONTACT WITH THE FENCE, SLIDE THE MATERIAL, FROM LEFT TO RIGHT, UNTIL THE LEFT EDGE OF THE SAW BLADE IS PERFECTLY ALIGNED WITH THE MARK MADE IN STEP (5). ONCE ALIGNED, SELECT THE ZERO BUTTON TO CONFIRM THE CALIBRATION.

