

Digital Calibration Kit E1000 for Tie-Dex Tools Operation Instructions



**Original document
(not a translation)**



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Safety Guidelines

This device has been tested by BAND-IT-IDEX and meets the requirement of stability during use, storage conditions, transportation, assembly, dismantling when out of service, testing or foreseeable breakdowns providing that the proper safety precautions are observed.

DANGER—Misuse of this equipment may result in injury to personnel.

- Only use the equipment for its intended purpose, as described in this manual

Please read this entire manual before unpacking, setting up or operating this device. Pay attention to all danger and caution statements. Failure to do so could result in serious injury to the operator or other personnel, or damage to the equipment.

CAUTION

Caution – Risk of pinch point

Located at **tool head and interface** during tension cycle



Caution – Risk of electric shock

With meter plug into power outlet



Caution – Band may be sharp at the edge and the ends, Please wear appropriate cut resistant gloves to prevent cut



Caution – Refer to accompanying documents



It is the task of the employer to warn his or her staff of risks, to train them on prevention of accidents, and to provide necessary safety equipment and devices for the operator's safety. Before starting to work with the device, the operator should check the features of the device and learn all details of the device's operation. The device should only be operated by staff members who have read and understand the contents of this manual.

Kit Contents:

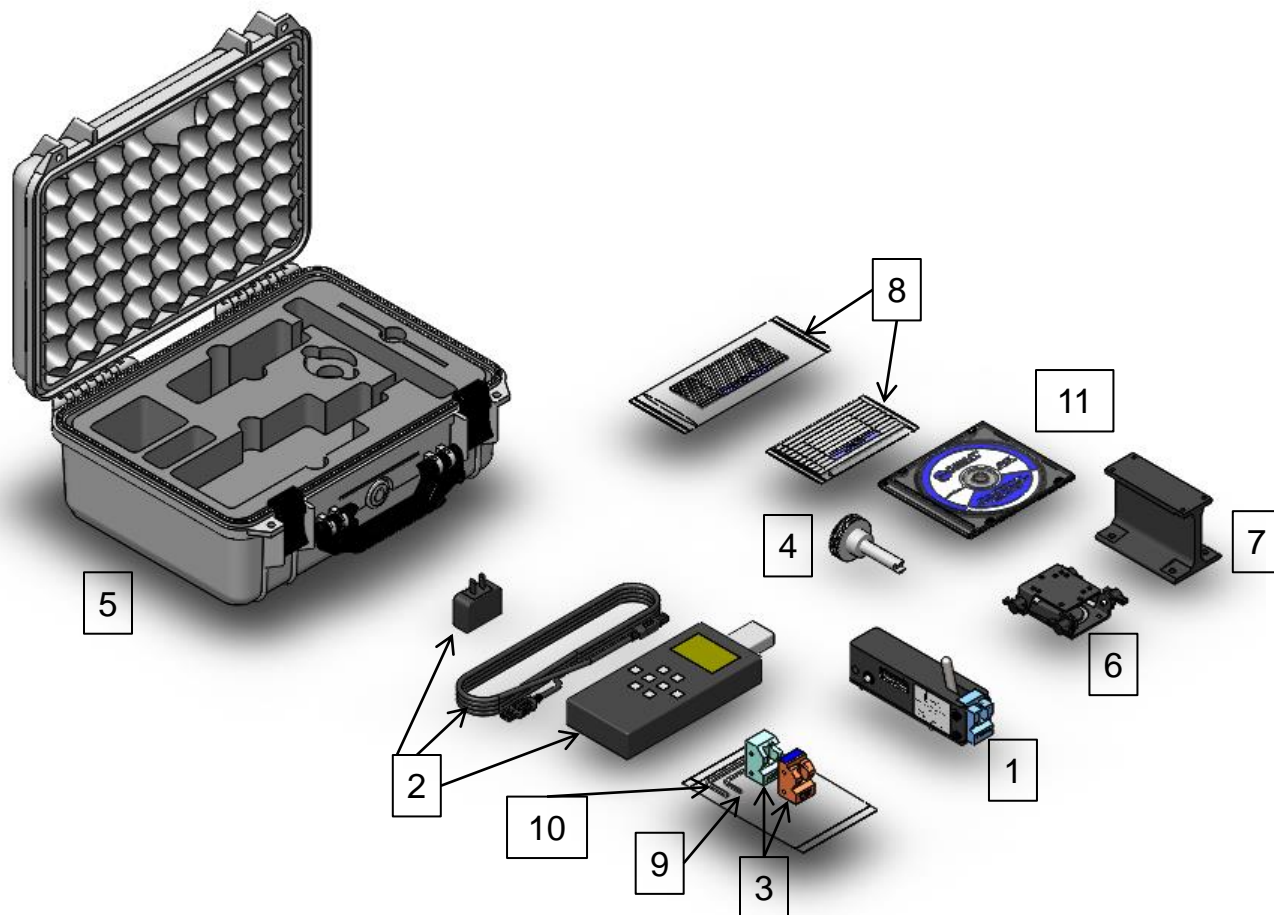


Fig. 1 E1000 Kit

Kit Contents:

Item #	Description
1	Calibration Gauge
2	Load Cell Meter, cable, and power adapter
3	Interface (Adapter) for tool
4	Key, Tension Adjustment
5	Case
6	Bracket (Meter)
7	Bench Stand (Gauge)
8	Test Band
9	Key, Hex 3 mm
10	Key, Hex 1/4"
11	CD, Software (data logging)

Table 1

SPECIFICATIONS:

Tension Range	0-200 lb (Serial #: 52072 and higher) 0-500 lb (Serial #: 52071 and lower)
Accuracy	$\pm .5$ lb for 200 lb tension range, Readout 0.1 lb Increment ± 1 lb for 500 lb tension range, Readout 0.1 lb Increment
Dimensions: Gauge	6.65" x 2.50" x 3.00"
Dimensions: Meter	7.5" x 3.3" x 1.28"
Weight: Gauge	4.2 lbs
Weight: Meter	0.63 lbs
Weight, Kit	9.4 lbs

Table 2

Re-Calibration

Re-Calibration frequency will depend on the usage and application. It is recommended to send the device back to BAND-IT for re-calibration every 12 months.

Digital Calibration Device Overview:

Device Setup and Operation Notes

1. This device is designed to calibrate tool tension for Tie-Dex Standard and Micro tools only.
2. This device is designed to use Tie-Dex Test Bands and Ties only.
3. Each device is calibrated with specific meter; do not disconnect or switch meter.
4. Calibrate the standard tool to 150 ± 5 lbs and the Micro tool to 80 ± 5 lbs.
5. Unit has an internal lithium ion battery, run time is approximately 65 hrs fully charged. To charge unit plug USB cable/charger into 100-240Vac, 50/60Hz with standard two prong charger. Maximum charge time: 8 hours.
6. Secure Calibration Device Body to stand for bench or countertop use.
7. OR use device as a hand held unit without fixture.
8. Refer to page 7-9 of TTI-SSI meter manual for basic meter operation.
9. Release tension by correct use of "Band Tension Release Lever", step 7.
10. **DO NOT CUT BAND UNDER TENSION FOR ANY REASON, damage to the strain gauge may result.**
11. Digital records can be maintained by using the supplied USB port and cable with PC or laptop. Data Tracking Software is included with the 601-200 kit.

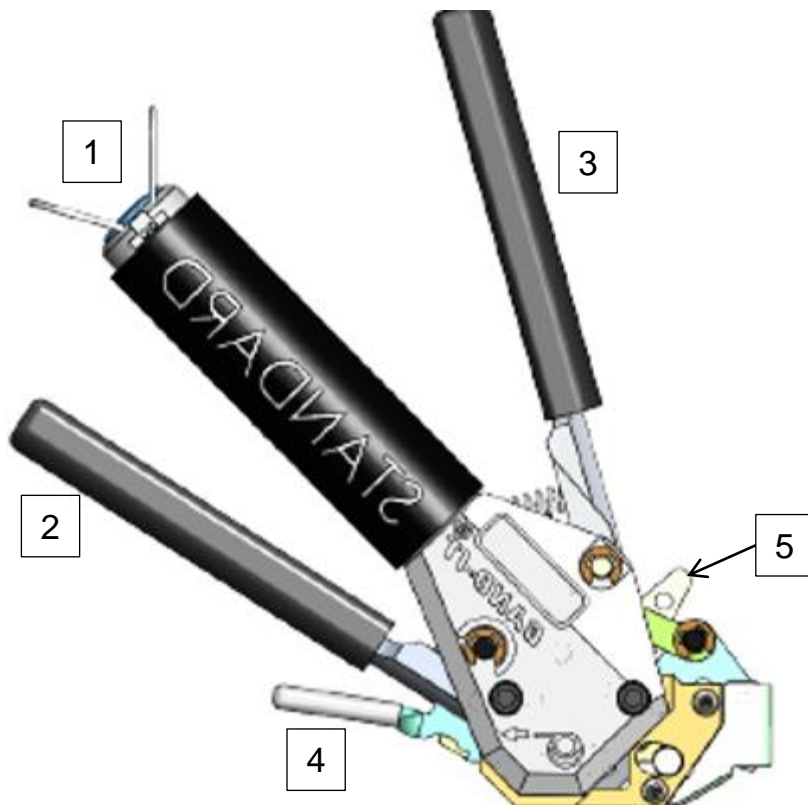
Digital Calibration Device Overview:



- 1 Tare Button (Reset)
- 2 Band Hold Down Lever
- 3 Color Coded Band Tool Interface (Adapter)
- 4 USB Port

Fig. 2

Tie-Dex Hand Tool Brief Overview:



- 1. Calibration Access Plug
- 2. Tension Handle
- 3. Cut-off Handle
- 4. Band Insertion and Release Handle
- 5. Tension Release Lever

Fig. 3

Note: Please see BAND-IT Tie-Dex Tool manual P08787 for detailed operation instructions

Tool Calibration Operation Instructions:

Step 1.

Attach proper Tool Adapter to match band tool to be calibrated using screws and hex key provided. Note the tool type notation on adapter for correct selection. Note that band tool part numbers are engraved on each interface adapter for correct selection.

Step 2.

Pull the Hold Down Lever 2 forward, on the calibration device and insert the correct size of test band into the Hold Down slot until it stops.

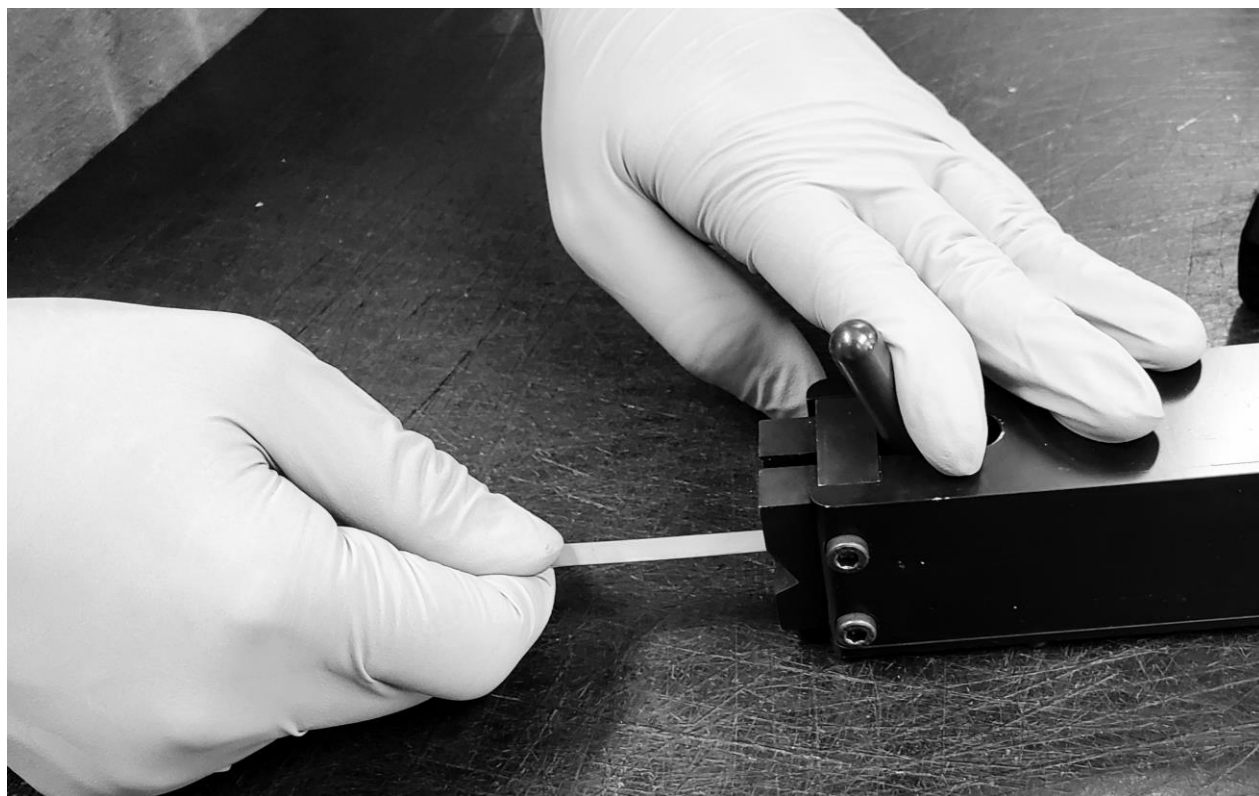


Fig. 3

Tool Calibration Operation Instructions:

Step 3.

Pull on the test band by hand to ensure it is being securely held by the band hold down

Step 4

Squeeze the band insertion and release handle on the hand banding tool and insert the other end of the test band into the tool slot.

Step 5.

Actuate tension handle on hand banding tool with short strokes until the tool nests into the adapter, pull up a full stroke of the handle until the handle locks in place against tool body.

If pneumatic tool is being calibrated, be sure that the Cut-Off Disable switch is in the OFF position.

WARNING: DO NOT CUT OFF BAND WHILE BAND TOOL IS UNDER TENSION AND BEING CALIBRATED.

Step 6.

After a 3 second count, record tension value from the meter display. Setting up the meter to record peak readings is a suitable method if a physical count to visual record is not preferred.

Tool Calibration Operation Instructions:

Step 7.

Remove the banding tool from the calibration device by holding tension handle tightly against tool body while pushing the Tension Release Lever forward to unlock the tension handle, slowly releasing the tension handle to the fully extended position.

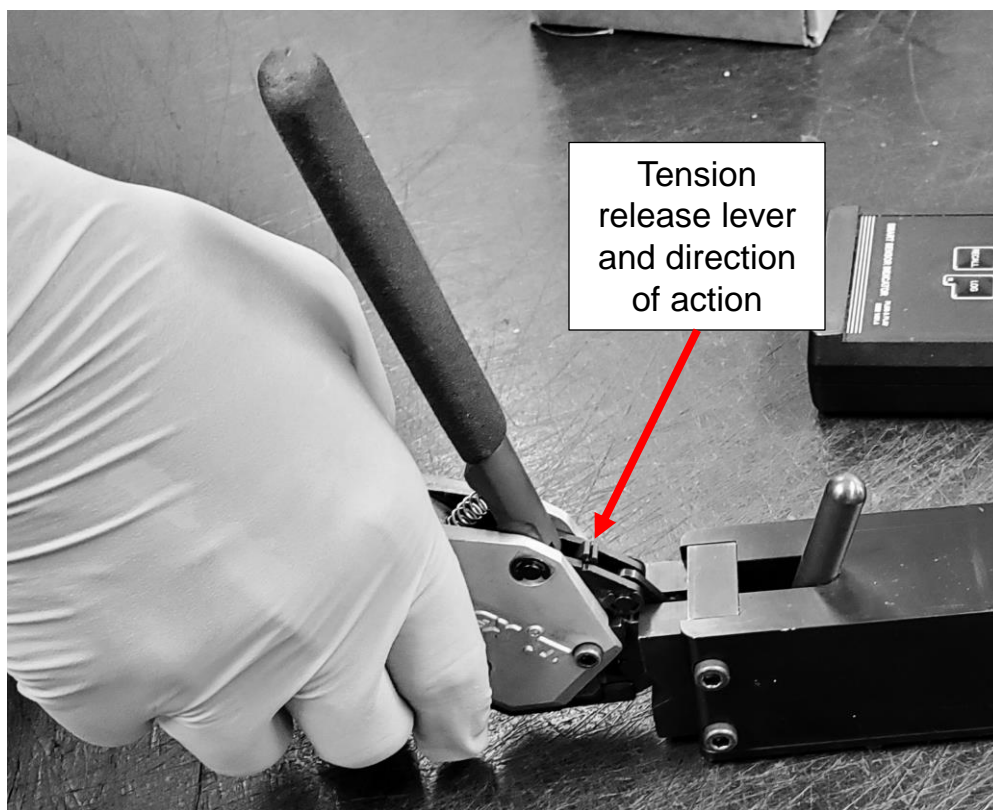


Fig. 5

Tool Calibration Operation Instructions:

Step 8.

Remove tool by pulling the Band Hold Down Lever forward on the calibration unit to release band and pull the banding tool away from calibration unit.

Step 9.

Adjustment of tool is accomplished by inserting the calibration key into the handle of the tool and turning the adjustment nut. One turn clockwise is approximately equal to 1-2 pounds of tool tension increase.

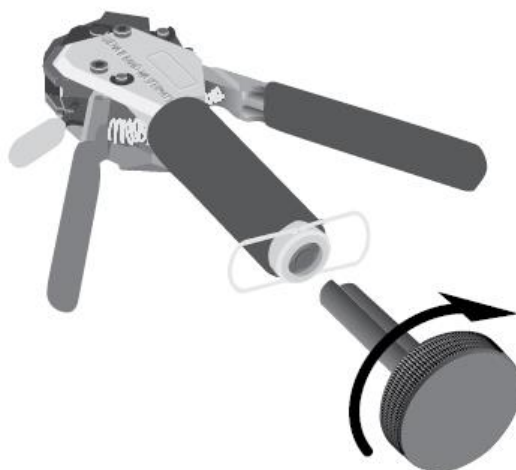


Fig. 6

Tool Calibration Operation Instructions:

Step 10.

Repeat steps 3-9 to obtain consecutive test readings.
Use a new test band for each calibration check.

Note: Some reduction of pull force will be noted after tool lockup. This is due to gripper impressions from both grippers digging into the stainless band material while under tension. Readings are best taken 3 seconds after lockup per the average length of time it takes to make a cutoff operation under normal use.