



## Table of Contents

Page Description	Page #
Safety Guidelines, Warranty, Contents	2
Overview, System Requirements, Configurations	3
Setup	4
Installation and Calibration Procedure	5

## Safety Guidelines

- Read this manual and become familiar with the IT tool before connecting and installing the Calibration Device.
- Protective eyewear should be worn when connecting and disconnecting an IT-series tool to compressed air sources and during operation.
- XIT and IT tool functions can be immediately stopped by releasing the tool trigger.
- To prevent shock, keep unit away from water or conductive liquids. Keep this device away from water, solvents, lubricants and dirty environments.
- The electronic load sensors and components are sensitive to shock and vibration. Handle with care.
- This device is not meant to be disassembled. Care should be taken not to damage cable connections.
- This device should be stored in its protective case when not being used.

## Warranty

For Warranty information visit the following URL:  
[www.BAND-IT-IDEX.com](http://www.BAND-IT-IDEX.com)

## Contents

This calibration device has been designed as a one-piece unit. It is not intended to be disassembled for any reason. The components of this device are:

- The Load Cell Housing with its permanently attached 9' shielded data cable. The housings for the M28090 and M38090 are different to accommodate the various tool configurations.
- The Display Module with its permanently attached 6' grounded AC cord
- Quick Release Pins
  - M28090: P/N I22487 (2 supplied)
  - M38090: P/N I51074 (2 supplied)
- Protective storage case
- Operators Manual

## Calibration Device Overview

- This device displays the tension output of the IT-series tool in relation to the air pressure settings on the attached Air Controller Module. Adjustments to Tension Air Pressure Gauge of the Air Controller Module will affect the displayed numerical values.
- The most realistic performance can be measured when the IT tool is monitored and calibrated to the Air Control Module at its regular location. The data will represent the typical conditions at the site of clamp installation.
- This device is intended for use with BAND-IT pneumatic IT-series tools only.
- Calibration devices should be sent to BAND-IT if in need of recertification .

## System Requirements

- Confirm air requirements for pressure, volume and proper filtration as identified in tool operators manual. See tool specific Operating Manual.
- Power Requirements
  - The device is equipped with a standard, 6-foot long, 110 volt AC cord.
  - Confirm electrical requirements have been met with a grounded outlet. A grounded extension cord may be used as necessary.
  - This device may also be run on universal power choices. (i.e. 220V, 50Hz)

## Calibration Device Configurations

- M28090 is for use with the –AB– IT tool configurations.
- M38090 is for use with the –B– and the –C– IT tool configurations.

## Setup

- 1) We suggest the IT-series tool be prepared prior to calibration by having the following operations performed: cleaning, lubrication and functional testing.
- 2) Plug this Calibration Device into a 110 VAC outlet. The display should read within a range of -5 to + 5 (pounds). If the value displayed is not within this range, the device should be returned to BAND-IT for repair and recertification prior to use. (see Photo #2 below)
- 3) Turn off the air supply to the IT tool by turning off the Air Shut-Off Valve on the Air Controller Module (see tool instruction manual).
- 4) Remove the Maintenance Cover. See the IT tool specific Operators Manual for more details.
  - a) Tools using M28090: Release tension on the Maintenance Cover by releasing the Maintenance Cover Jam Screw or release Cam Bar Tension Lever. Remove the Maintenance cover by either removing the two quick release pins or the shoulder bolt and two screws, depending on the configuration.
  - b) Tools using M38090: Remove the two retaining rings and then the two clevis pins to remove Maintenance Cover.
- 5) Leave the tension block in position for calibration. (see Photo #3 below).
- 6) If your model of the IT tool is not equipped with hole locations for Quick Release Pins to secure the Maintenance Cover in place, the tool is not compatible with this Calibration Device. The IT tool can be returned to BAND-IT for necessary modifications. Do not attempt to modify the housing or Maintenance Cover.



Photo #2

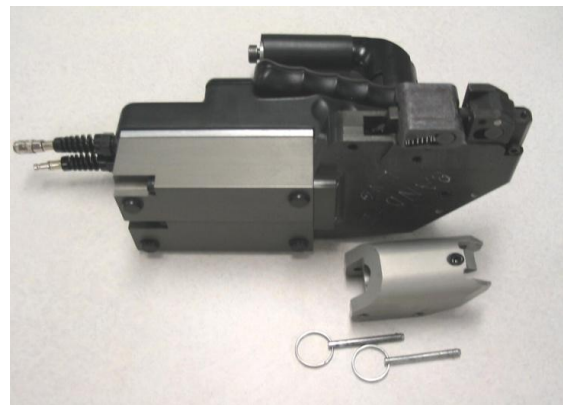


Photo #3

## Installation and Calibration Procedure

- 1) Attach the Calibration Device utilizing the Quick Release Pins in the Maintenance Cover location. Confirm that the pins are fully inserted. (Photo #4)
- 2) Turn on the air supply to the tool by turning the Air Shut-Off Valve on the Air Controller Module.
- 3) Press and hold the Operating Trigger until the tool reaches tension and switches over to the cut-off mode. Note the displayed value. Press the Reset Button on the front of the tool.
- 4) This device displays the tension output of the IT-series tool in relation to the air pressure settings on the attached Air Controller Module.
- 5) Allow the tension regulator and gauge to settle for a few seconds to ensure consistency for each reading
- 6) Pressing the Reset Button in the front of the tool will release the force from the calibration device.
- 7) Cycle the tool at least three (3) times at the intended setting and record the tension value for each cycle.
- 8) Press the Reset Button to release tension and turn off the air supply before removing the Calibration Device. Remove the two Quick Release Pins and Calibration Device from the IT tool body.
- 9) Replace the Maintenance Cover and secure using the fastening system supplied with your tool. For –AB– level tools only : Be sure to torque the Jam Screw to 20-30 inch-pounds prior to installing a clamp.
- 10) Upon completion of the calibration process, return the Calibration Device to its storage case for protection until its next use.



Photo #4

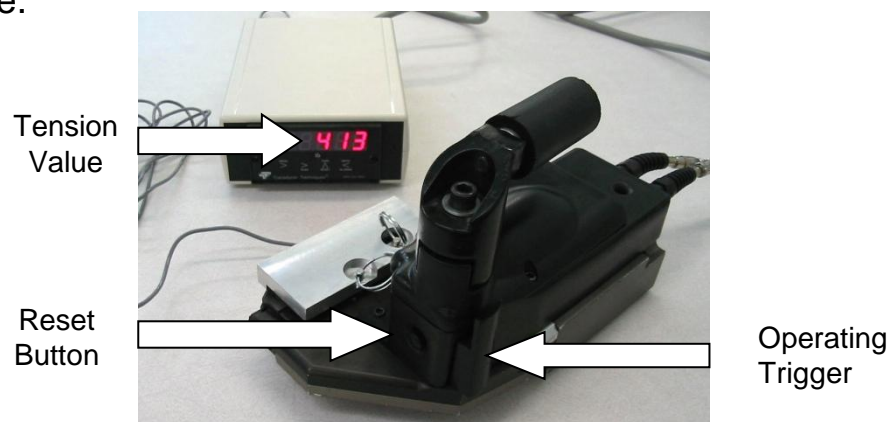


Photo #5