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## TIE-DEX<sup>®</sup> CALIBRATION DEVICE – A50099

### Introduction:

The A50099 Tie-Dex<sup>®</sup> Calibration Device is to be used with the A30199, A40199, A35199, and A35599 Tools using BAND-IT<sup>®</sup> Tie-Dex<sup>®</sup> ties only.

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### Safety Practices:

1. Read this manual and become familiar with the device before use.
2. Protective eyewear should be worn during use.
3. Wear appropriate gloves for handling steel.
4. Care should be taken to insure fingers are not in contact with the Tie during calibration.



**WWW.CABLEJOINTS.CO.UK**  
**THORNE & DERRICK UK**  
TEL 0044 191 490 1547 FAX 0044 477 5371  
TEL 0044 117 977 4647 FAX 0044 977 5582  
**WWW.THORNEANDDERRICK.CO.UK**

## Specifications:

Range: 50 lbf – 170 lbf

Accuracy:  $\pm 2$  lbf

Dimensions: 6.65" Long X 2.47" Wide X 2.83" Tall (Device)

Weight: 2 lbs (Device)

## Tie-Dex<sup>®</sup> Calibration Kit Contains the Following Items:

Calibration Device with  
Interface, Tie-Dex<sup>®</sup> II (factory installed on Device)

Interface, Micro Tie-Dex<sup>®</sup> II

Test Band, 50pcs

Test Band, Micro, 50pcs

Calibration Adjustment Key

Hex Key, 1/16"

Hex Key, 9/64"

Carrying Case



# Operating Instructions



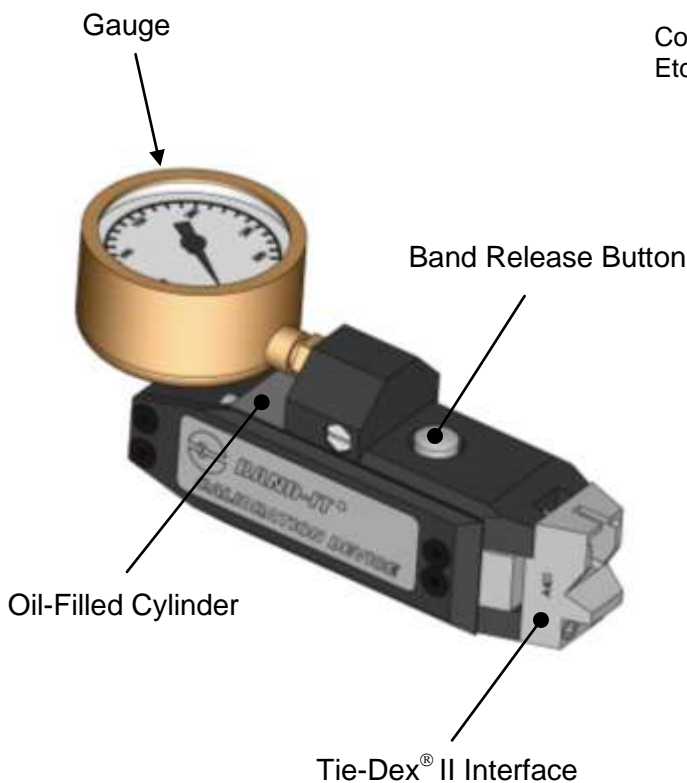
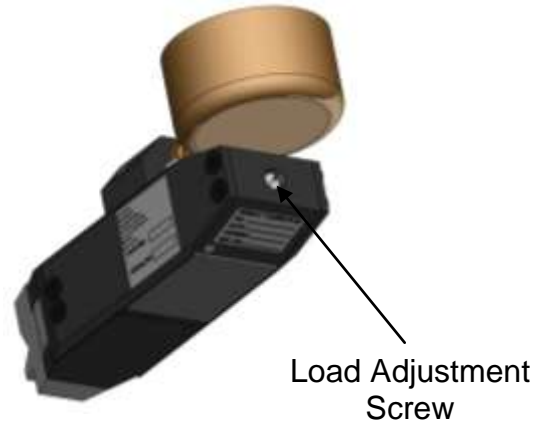
# A50099 Calibration Device

## Note:

Calibration device must have 20-30 lbf pre-load to ensure accuracy.

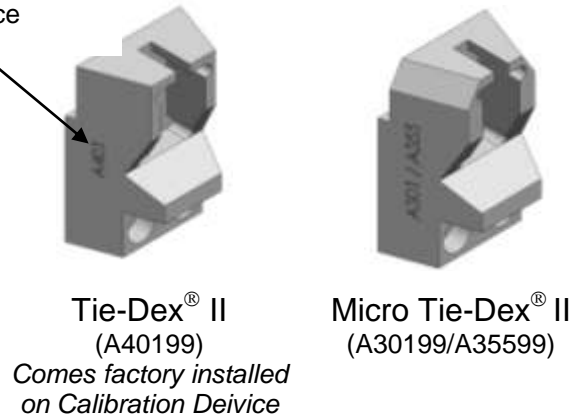
*1 lbf = 1 psi Approx.*

Rotate the load adjustment screw counter-clockwise if gauge indicates the pre-load is less than 20 lbf.



Corresponding Tool Etched on Interface

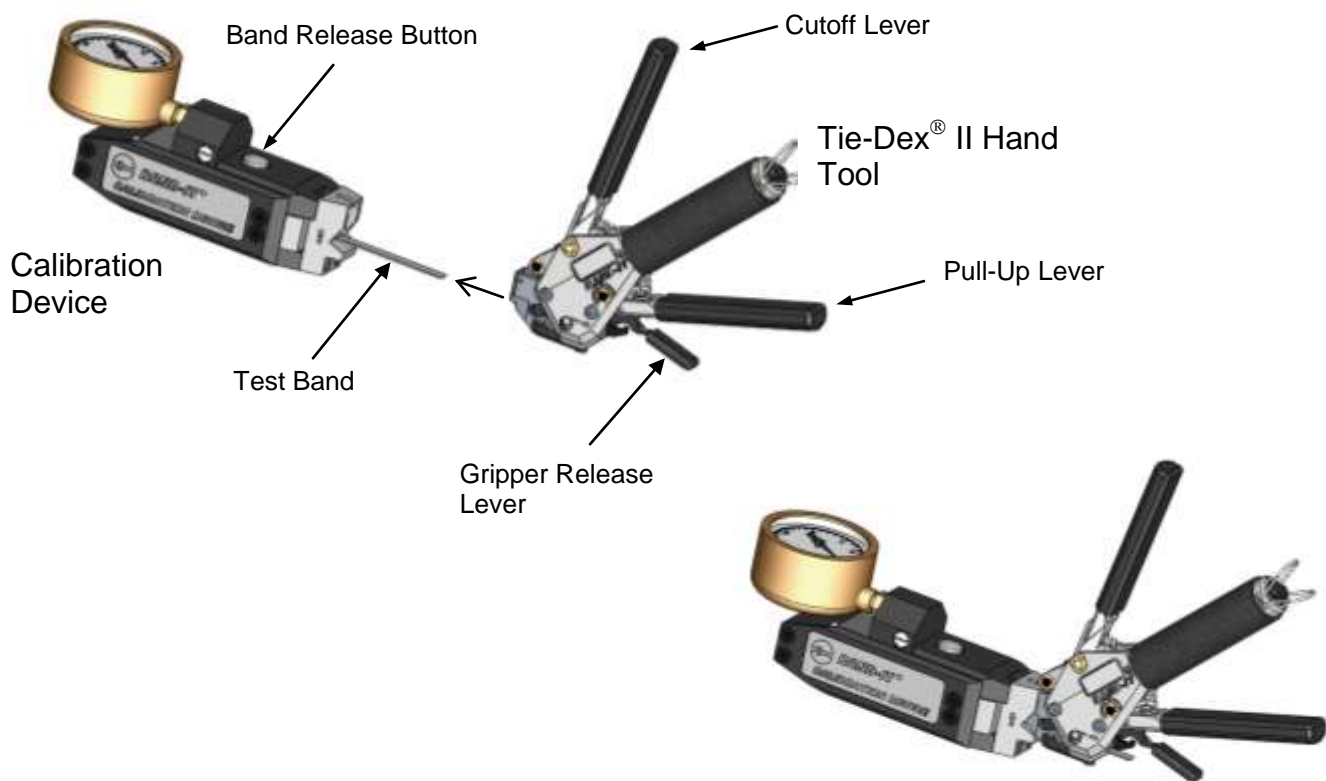
## Tool Interfaces



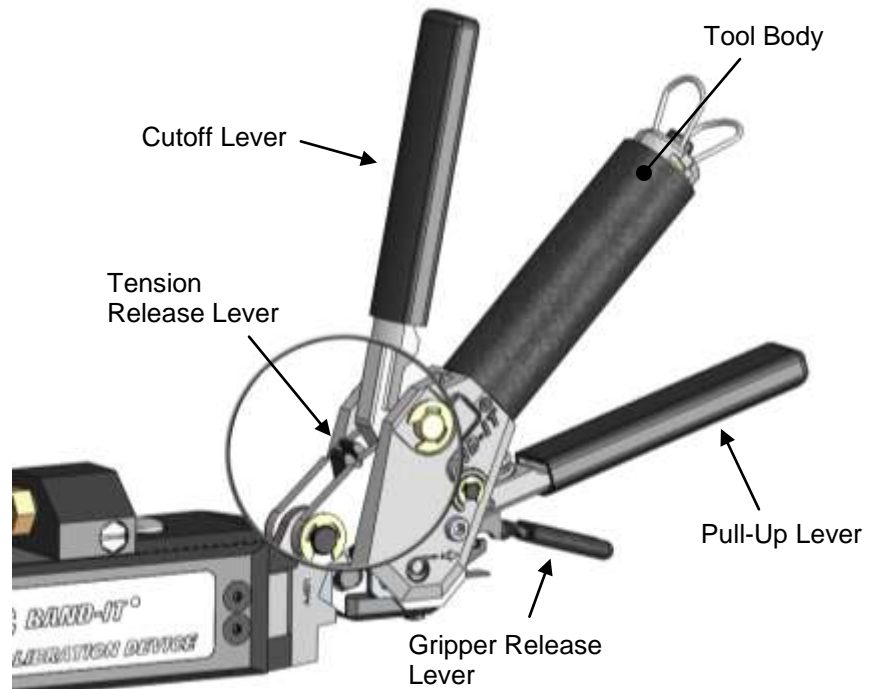
## Calibration Adjustment Key



1. Attach appropriate Tool Interface to Calibration Device (Tie-Dex<sup>®</sup> II Interface comes factory installed). Use Hex Keys provided with kit to remove and install Cap Screws and Flat Head Screw.
2. Press Band Release Button and insert appropriate Test Band (be sure to use the correct test band depending on the type of tool being calibrated). *Test Band must be clean and undamaged.*
3. Insert other end of Test Band into the Tool band slot.
4. Actuate Pull-Up Lever on Hand Tool until Lever locks in place against Tool Body and preset tension has been achieved. Be sure the Tool Head is nested in the Interface, as shown below. If a Tie-Dex<sup>®</sup> pneumatic tool (A35199, A35599) is being calibrated, be sure that the cutoff disable switch is in the off position. **Warning: do not cut off band while tool is being calibrated.**
5. At this point in the calibration procedure, the Gauge reading on the Calibration Device indicates the pull-up force (lbf) that the Tie-Dex<sup>®</sup> II tool is set to.



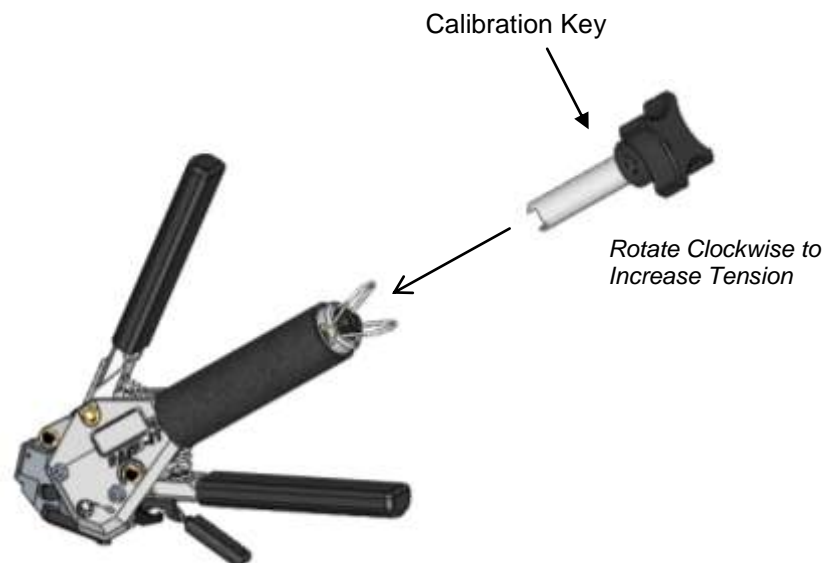
6. While the Pull-Up Lever is held up against the Tool Body, press the Tension Release Lever forward. This will unlock the Pull-Up Lever. Next, actuate the Gripper Release Lever and slide the Tool away from the Calibration Device.



7. Press the Band Release Button to remove and discard used Test Band

*Note: Band Release Button will not actuate while Tie-Dex<sup>®</sup> II Tool is in Calibration Device.*

8. If needed, adjust preset tension on Tie-Dex<sup>®</sup> II Tool. To adjust, remove Plug from rear of Tool Body and insert Calibration Key. Rotate as needed. Repeat instructions above to verify calibration.



9. To qualify calibration, repeat calibration steps 3 times using a fresh piece of Test Band each time.

# Replacement Parts & Warranty



# A50099 Calibration Device

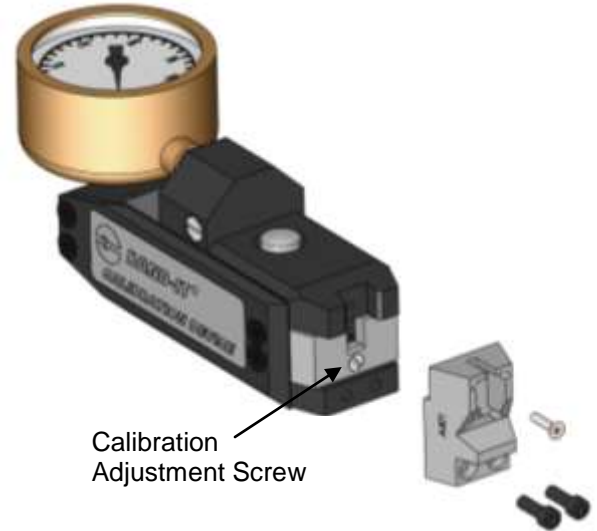
The Calibration Device can be calibrated to within  $\pm 2$  lbf of actual load frame readings in the 50 to 170 lbf range.

Remove the Interface and Rotate Calibration Adjustment Screw clockwise to decrease calibration device reading and counter-clockwise to increase readings.

*1 full turn = 1 lbf Approx.*

The Calibration Device may be returned to BAND-IT® for periodic calibration.

Each Calibration Device has its own serial number and calibration history.



## Replacement Parts

### Interfaces

Part Number	Used With	Kit Contents
A50799	A40199, A35199	Interface, Cap Screws (x2), Flat Head Screw
A50899	A30199, A35599	Interface, Cap Screws (x2), Flat Head Screw
A50999	A001	Interface, Top Support, Cap Screws (2), Flat Head Screw

### Test Bands and Keys

Part Number	Description	Packaged Quantity
A50599	Test Band, Tie-Dex®	50
A50699	Test Band, Tie-Dex® Micro	50
A44699	Calibration Key, Tie-Dex®	1

Refer to website for warranty information: <http://www.band-it-idex.com/warranty.html>



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