



TorqueMate®

Electronic Torque Wrench & Torque Screwdriver



Subject	Pg	Subject	Pg	Subject	Pg
Contents	2				
The Wrench					
<u>Description</u>	4	<u>Date Mode</u>	6	<u>Upload Mode</u>	10
<u>Recommended Use</u>	4	<u>Trac Mode</u>	7	<u>Calibrate Mode</u>	11
<u>Basic Characteristics</u>	4	<u>Peak Mode</u>	7	<u>Backlit Mode</u>	5
<u>Care Guidelines</u>	4	<u>Preset Mode</u>	7	<u>Battery Care</u>	4
<u>LCD Display</u>	5	<u>Set Mode</u>	8	Ratchet Head care	
<u>Language Mode</u>	6	<u>Recall Mode</u>	9		
<u>Unit Mode</u>	6	<u>Clear Mode</u>	9		
The PC Front End - TORQUE PCFE					
<u>IMPORTANT NOTICE</u>	21	<u>Store To Wrench</u>	18	<u>Clear</u>	18
<u>Communication with Wrench</u>	12	<u>Continuous Upload</u>	18	<u>Set a Preset</u>	15
<u>The PC Front End - Whole Page</u>	13	<u>Upload All</u>	18	<u>Set Current Mode</u>	17
<u>The PC Front End - Top of Page</u>	14	<u>Clear Wrench Data</u>	18	<u>Set Span Units</u>	17
<u>The PC Front End - End of Page</u>	16	<u>Unit Conversion</u>	18	<u>Set Current Language</u>	17
<u>Select Com Port</u>	13	<u>Sort by Preset</u>	18	<u>Set Current Units</u>	17
<u>Mode Access</u>	21	<u>Save to File</u>	19	<u>To Activate Calibration</u>	22
<u>Connection Status</u>	18	<u>Load from File</u>	19	<u>Solution - Torque Err Calibration</u>	23
<u>Language</u>	17	<u>Save as an Excel File</u>	20	<u>Torque and Angle Models</u>	23
<u>Power Off</u>	18	<u>Clear All Presets</u>	19		

English help
PC front user guide

Select port: select communication port you wish to use to communicate with the wrench

View: select pc front view of the wrench which you want, either memory or single function. Also select language for pc display.

Change password: type current password. Type new password. Confirm new password

Current mode: Select mode you wish wrench to operate in. Selection will take effect after data is stored using 'store to wrench button'

Current units: select units you wish wrench to operate in. Selection will take effect after data is stored using 'store to wrench button'

Current language: select language you wish wrench to operate in. Selection will take effect after data is stored using 'store to wrench button'

Wrench span: The span of measurement of the wrench

Period of calibration: Set number of days to next calibration.

Calibrated on: date of last calibration.

Activate calibration: Activates the calibration option in the wrench menu. You must begin calibration before the wrench powers down.

Default calibration: Allows wrench reset. All data /settings stored in the wrench will be cleared and default calibration values for the wrench's specific calibration span will be programmed.

Power off wrench: allows soft power down of the wrench.

Store to wrench: Store all current pc front settings to wrench. Wrench will automatically power down after store.

Load from file: loads a previously created file containing preset data, into the pc front preset window (top left).

Save to file: saves pc front displayed preset data to file.

Clear all presets: clears presets from the pc front presets window.

To set a preset, click on any preset location number in the pc front presets window. Set the required nominal min max and units. Store settings to the wrench.

Continuous upload: allows real time communication of measurements to the pc front. Wrench must be connected to the pc. This feature operates only modes, when the wrench is in peak or preset

Upload all: displays all stored wrench measurement data in the pc front data window (lower left)

Clear: clears the wrench measurement data displayed on the pc.

Clear wrench data: clears the wrench measurement data displayed on the pc and in the wrench

Unit conversion: allows user to change the units of the displayed measurement data on the pc

Sort by preset: sort the displayed measurement data and group according to ascending preset numbers

Save as an excel file: save the current displayed measurement data as an excel file.

The pc front measurement data window displays stored wrench measurements showing wrench memory location, date and time, torque value, the preset torque limits), * indicator(where measured values are outside preset number, preset nominal, min, max and units.

Description

The TorqueMate Wrenches are "State of the Art" devices, comprising Intelligent Technology, Large Alphanumeric Display, Menu Driven. Total Tractability, Greater than 1% Accuracy, Simple to Set and Calibrate complete with Outstanding Performance and Ease of Use Features. The Torque Tools are, Hand-held Torque Measuring Instruments provide Precision Accuracy, High Repeatability, Simple Recalibration and Pass Code Operation. Presets can be set to provide Visual & Audio Signal on reaching of Preset Value Approach, Fastener Overload, Range Overload, Maximum Mechanical Overload, Low Battery and Memory Full.

Recommended Use

The Electronic Wrench are specifically designed for use in all Industrial Sectors and Applications where High Accuracy and Repeatability combined with a Complete Torque Data Management & Control System are Standard Requirements.

Basic Characteristics

- Accuracy & Linearity** Right hand side torque = 1%, Left hand side = 1% of Actual Reading.
- **Resolution** 0.05
- **Alarms** Preset Value Approach, Fastener Overload, Range Overload, Mechanical Overload, Low Battery, Memory Full.
- **Memory Capacity** 2094 Values
- **Battery Life** Sleep Mode 5,000 Hrs, Operational Mode 160 Hrs.

Care Guidelines -

These Instruments should be handled with care. Do not subject to Torque Loads in excess of the Model Range.

Do not use Tool to loosen fasteners tightened beyond Max Tool Capacity - Never apply extensions to Tool.

Do not Drop or Subject to Impact Blows - Provide adequate storage to Protect from Damage - Adhere to Safety Instructions

Changing the Battery on Wrenches -

Unscrew the metal End Cap on the handle of the wrench.

Remove the four AA cell batteries and replace with new.

Screw back the metal End cap.

Check to ensure the date and time are correct

Note: Battery life should last 160hrs+

Ratchet head guidelines

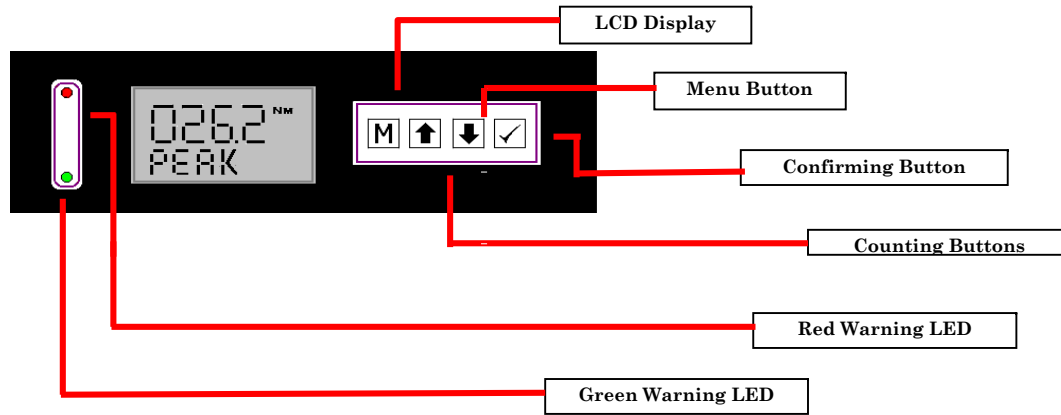
Max Torque for 1/4" Ratchet = 30 Nm

Max Torque for 3/8" Ratchet = 135 Nm

Max Torque for 1/2" Ratchet = 340 Nm

- 1) Store in a dry location
- 2) Oil Frequently to prevent Ratchet head seizing
- 3) Do not exceed specified torques
- 4) Do not use external forces on Ratchet (i.e. Hammer)

The LCD Display



Reading starts at 2% of Maximum with an Accuracy of 1% beginning at 10% of Maximum (Threshold to Maximum Span).
When Reading under Threshold LCD will display "Under"

BACKLIT MODE






Backlit Mode - Keypad Function

- | | | |
|---------|----------------------------|-------------------------------|
| 1 Press | <input type="checkbox"/> M | to Scroll to the Backlit Menu |
| 2 Press | <input type="checkbox"/> ✓ | to enter Backlit Menu |
| 3 Press | <input type="checkbox"/> ✓ | to Switch on Backlit |
| 4 Press | <input type="checkbox"/> ✓ | to Switch off Backlit |

Backlit Mode User Information

This function allows the User to light the display






Language Mode - Keypad Function

1. Press  to Scroll to the Language Menu
2. Press  to enter Lang Menu
3. Press   to Scroll to Language Required
4. Press  to Confirm operation in this Language.

Language Mode User Information

The Languages of Operation available to the User are
EnG - English, Frn - French, Ger - German, itA - Italian, SPn - Spanish.





Unit Mode - Keypad Function

1. Press  to Scroll to Units Menu
2. Press  to enter Units Menu
3. Press   to Scroll to Units Type Required
4. Press  to confirm selected units

Unit Mode User Information

The following Units of Measure are available
- kgf.cm - kgf.m - cN.m - N.m - ozf.in - lbf.in - lbft.ft



Date Mode - Keypad Function

1. Press  to Scroll to the Date Menu
2. Press  to enter Date Menu
3. Press   to Set the Hour
4. Press  to Set the Hour Required
Day Set / Year Set - repeat Steps 3 & 4




Date Mode User Information

This function allows the User to set Hour, Day & Year.
The "Hour" will automatically change as the Minutes are increased / decreased using the Up / Down Keys.
The Month will automatically change as the Days are increased / decreased using the Up / Down Keys.







Track Mode - Keypad Function

- 1 Press  to Scroll to Trac Mode
2 Press  to operate in Trac Mode

Peak Mode - Keypad Function

- 1 Press  to Scroll to Peak Mode
2 Press  to operate in Peak Mode
3 Press  to store the Peak Value Recorded if required. If Storage is not required then apply New Torque

Preset Mode - Keypad Function

- 1 Press  to Scroll to Preset Mode
2 Press  to Enter Preset Mode
3 Press   to select your preferred Pre-set No. (1 TO 99)
4 Press  to operate within this preset parameter.
5 Press  to store the applied Torque if required.

Track Mode User Information

As Torque is applied the Wrench will actively display the applied Torque reading to the Max Span of the Device. On removal of the Torque pressure the display will return to Zero.

Peak Mode User Information

In Peak Mode the Torque Reading will remain Displayed when the Torque Pressure is removed. The User has the option to store the reading in Memory. If storage of the reading is not required the User may continue to the next measuring task.





Preset Mode User Information

This Mode allows the User to take measurements based on the Nom, Min & Max of Torque Settings with the relevant Warning Signals activated.
Min Value - The Green LED & Buzzer will Flash and Sound intermittently
Nom Value - The Green LED & Buzzer will sound continuously
Max Value - The Red LED will Flash continuously and the Buzzer will sound continuously.

Set Mode - Keypad Function

- 1 Press  to Scroll to Set Mode
- 2 Press  to enter Preset No Menu
- 3 Press   to Scroll to required Preset No. (1 to 99)
- 4 Press  to Confirm Preset No. selected
- 5 Press   to Set your Nominal Value
- 6 Press  confirms Nominal Value
- 5 Press   to Set Your Low Value
- 6 Press  confirms Low Value
- 5 Press   to set your High Value
- 6 Press  confirms High Value





To set a Preset as a +/- % Deviation of the Nominal Value,

- 1 Repeat all steps 1 to 6 and set the Max & Min Value = Nom Value
- 2 Press  asks for % Deviation Value
- 3 Press   to select % Deviation
- 4 Press  to confirm % Deviation settings.

Set Mode User Information

In Set Mode 99 Individual Preset showing Nominal, Min and Max Values can be set from Wrench Keypad or PC.










Recall Mode - Keypad Function

- 1 Press  to Scroll to Recall Mode
- 2 Press  to enter Memory Locations
- 3 Press   to scroll through locations that contain data.

Recall Mode User information

This mode allows the User to view the Stored Applied Torque Data.
Only Locations containing data will be displayed. Note that as data is stored the locations are populated sequentially from 01 to 2094









Clear Mode - Keypad Function

- 1 Press  to Scroll to Clear Mode
- 2 Press  to enter Clear Mode
- 3 Press   to select "From Location" in range to be cleared.
- 4 Press  to confirm "From Location" of range to be cleared
- 5. Press   to select "To Location" of range to be cleared
- 6 Press  to confirm range of locations "From - To" to be cleared.
- 7 Press  When asked "Are you sure ?" to confirm.

Clear Mode User Information

This Mode allows the User to Clear the Stored Torque Data from an individual or range of locations.
Note: Before clearing the selected range and as a safety precaution, the user will be asked are they sure they wish to clear selected data. This can be done by pressing the confirm button.

Upload Mode - Keypad Function

- 1 Press  to scroll to Upload Mode
- 2 Press  to enter Upload Mode
- 3 Press   to select "From Location" of range to be Uploaded.
- 4 Press  to confirm "From Location" of range to be Uploaded
- 5 Press   to select "To Location" of range to be Uploaded
- 6 Press  to confirm and Upload Data from the range of locations.

Up Load Mode User Information

From the Wrench, this Mode allows the User to

Upload Stored Torque Data from an individual or range of locations.

In Upload Mode, the Wrench must be connected to a PC running the PC FRONT-END Software (PCFE) via the RS232 Ports on the Wrench and PC.

Calibrate Mode **Note: Ensure date & time on wrench are correct**

- 1 Connect wrench to PCFE software and Click the Activate Calibrate Button.
- 2 Press on the Wrench to scroll to Calibrate Mode
Place Wrench onto Calibration Unit. Destress on on Right Hand Side
- 3 Press to activate Calibrate Mode (The Wrench LCD will now display a reading of 10% of the Max Span of the Wrench)
- 4 Apply Torque to the Wrench until the Reading on the Calibration Rig is equal to the Reading on the Wrench (10% of Max Span)
- 5 Press to confirm that the First Point of Calibration is now set.
- 6 Now Measurement Point No.2 (20% of Max Span) will appear on the Wrench LCD Display. Therefore repeat Steps No.4 & No. 5
- 7 Now Measurement Point No.3 (60% of Max Span) will appear on the Wrench LCD Display. Therefore repeat Steps No.4 & No. 5
- 8 Now Measurement Point No.4 (100% of Max Span) will appear on the Wrench LCD Display. Therefore repeat Steps No.4 & No. 5
- 9 Repeat Step No's 1 to 8 for the Left Hand calibration.
- 10 Once calibration is complete select Trac mode on wrench.
On the Left hand side check wrench accuracy at 20%, 60% and 100% according to ISO6789-2003. Now destress on Right hand side and repeat step 10

Calibrate Mode User Information

Calibration is achieved using four Measuring Points, namely 10%, 20% , 60% and 100% of Max Span of the Wrench. In Calibration Mode the Wrench will automatically display these Measuring Point Values initially for the Right Hand and then for the Left Hand. **All Products should be 1% accurate**

Note: Destressing wrench implies that the wrench is torqued to it's maximum span

IMPORTANT NOTICE

**Calibration Mode is only accessible at the Mountz Repair Centers. The End User cannot access the Calibration Mode.
Please ensure that certified calibration systems are used when calibrating the Torque wrenches.**

To Establish Communication with the Wrench

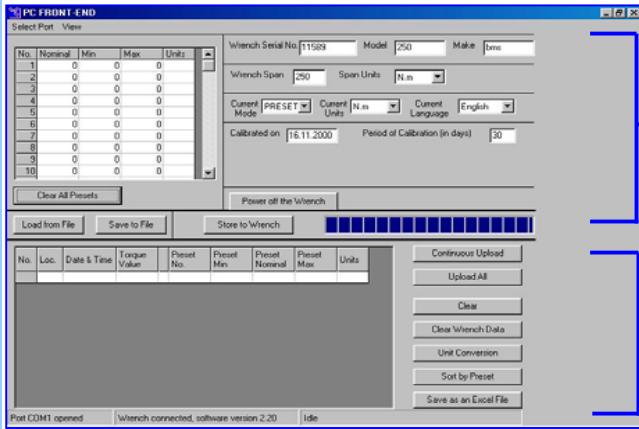
1. Place the Link Cable in the COM 1 PC Port. Note: Available PC Port configurations may vary. It is important that communications are attempted with the correct PC Port. The PC Link has been designed for connection with the standard 9-Way D-Type PC Port.

Possible PC Port Configurations you may have:

- (a) The Standard PC will have a mouse port (din socket), leaving one D-Type 9-Way socket as COM 1, which you should use for the communications Link cable.
 - (b) Your PC may use a mouse with a 9Way D-Type connector which is using one of the available ports. A second port is usually supplied. This may appear as a 25 pin D-Type Port. You may use a standard 25 to 9 Way D-Type connector on this port and then you use the supplied communications cable on this port.
2. Place the other end of the cable into the wrench cable socket.
3. Switch on the wrench by pressing any button on the wrench. Wait for the initialisation to finish. Now the pcfe will automatically connect to the wrench and the screen will fill with data from the wrench. (see note 1)
4. When you are finished communicating with the wrench, remove the cable from the wrench.

Note 1. If communication does not succeed the first time

It is important to know how your particular PC has named it's ports, if communication is to succeed (as windows can reassign port names) The easiest way to do this is to attempt communication with the Com Cable connected as in (a) or (b) in Step1 and if you do not succeed then at the upper toolbar on the pcfe click on "Select Port" Select an alternative port ... Click OK ... wait and the PC will now attempt communication on this new port.



The PC FRONT-END is activated by double clicking it's Icon.

The Top Half of the Page displays Wrench Data
Preset Nom, Min & Max Values

The Bottom Half of the Page displays Uploaded Peak and
Preset Measurement Values

THE PC FRONT-END Top of Page

Preset Values

Click to Clear All
Preset Values

Click to Load other
Preset Value Files

Click to Save
Uploaded
Preset Value

The screenshot shows the 'PC FRONT-END' software interface. It features a table of preset values on the left and configuration fields on the right. The table has columns for 'No.', 'Nominal', 'Min', 'Max', and 'Units'. The configuration fields include 'Wrench Serial No.', 'Model', 'Make', 'Wrench Span', 'Span Units', 'Current Mode', 'Current Units', 'Current Language', 'Calibrated on', and 'Period of Calibration (in days)'. At the bottom, there are buttons for 'Clear All Presets', 'Load from File', 'Save to File', and 'Store to Wrench', along with a 'Power off the Wrench' button.

No.	Nominal	Min	Max	Units
1	25.1	25	25.9	lbf.ft
2	36.2	33.8	79	N.m
3	50	40	60	lbf.ft
4	30.5	25.6	32.7	lbf.ft
5	305	300	308	lbf.in
6	4.54	3.56	5.79	kgf.m
7	324	309	424	lbf.in
8	555	333	999	lbf.in
9	33.8	33.8	34	N.m
10	33.8	33.8	34.8	N.m

Click to Power
Off the Wrench

Stores
(Downloads)
Current Preset
Values to
Wrench

Store to Wrench

To Set a Preset

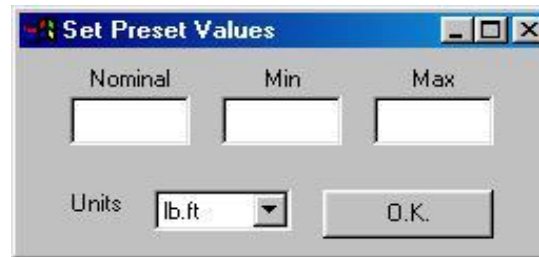
1. Click Once the required Field.

No.	Nominal	Min	Max	Units
1	0	0	0	
2	0	0	0	
3	0	0	0	
4	0	0	0	
5	0	0	0	
6	0	0	0	
7	0	0	0	
8	0	0	0	
9	0	0	0	
10	0	0	0	

Clear All Presets

2. The Set Preset Values dialogue box will now appear.

Input the Nominal, Min and Max Values



The dialog box titled "Set Preset Values" contains three input fields for "Nominal", "Min", and "Max", each currently empty. Below these fields is a "Units" dropdown menu showing "lb.ft" and an "O.K." button.

THE PC FRONT-END Top of Page

No.	Loc.	Date & Time	Torque Value	Preset No.	Preset Min	Preset Nominal	Preset Max	Units
1	1	16.11 18:46	66.3					N.m
2	2	16.11 18:46	80.7					N.m
3	3	16.11 18:46	132.1					N.m
4	4	16.11 18:46	110.2					N.m
5	5	16.11 18:46	123.7 *	2	33.8	36.2	79	N.m
6	6	16.11 18:46	28.7 *	2	33.8	36.2	79	N.m
7	7	16.11 18:46	31.3 *	2	33.8	36.2	79	N.m
8	8	16.11 18:47	46.7 *	2	33.8	36.2	79	N.m
9	9	16.11 18:47	33.9	2	33.8	36.2	79	N.m
10	10	16.11 18:47	27.7 *	2	33.8	36.2	79	N.m

Port COM1 opened Wrench connected, software

* Indicates a value in excess of the Wrench

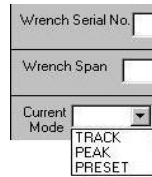
Uploaded Peak Measurements
 Uploaded Preset Measurements
 Click to activate Continuous Upload
 Click to Upload all Peak & Preset Data
 Click to Clear Data in Fields
 Click to Clear Data from the Wrench
 Click to change Units in Field
 Click to Sort Preset & Peak Fields
 Click to Save Data in Excel File

CLICK

DIALOGUE BOX

Current Mode

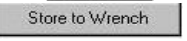
To select Trac, Peak or Preset Mode of Operation.



Activate by Clicking

Span Units

To Set Wrench Span Units.



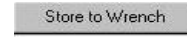
Activate by Clicking

CLICK

DIALOGUE BOX

Current Language

To Set Language.



Activate by Clicking

Current Units

To Set / Change Units of Measure.



Activate by Clicking

Click Power Off Wrench to Power down Wrench.

Power off the Wrench

Click Store to Wrench to Store Data to the Wrench.

Store to Wrench

Click Continuous Upload to show the cahnges in torque readings from the wrench.

Continuous Upload

Click Upload All to upload all data from the Wrench.

Upload All

Click Clear Wrench Data to clear Wrench Measurement Data from the Wrench.

Clear Wrench Data

Click Unit Conversion to change Units displayed on the PC.

Unit Conversion

Click Sort by Preset to to group displayed measurement data according to ascending preset numbers.

Sort by Preset

Click Clear to Wrench Measurement Data on the PC.

Clear

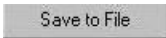
CONNECTION STATUS - Displays which Com Port is being used and whether the Wrench is connected.

Port COM1 opened

Wrench connected, software version 2.20

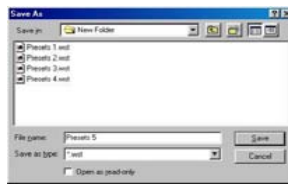
Idle

CLICK

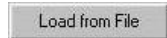


To Save Preset Values
to File on
PC Hard Drive

DIALOGUE BOX

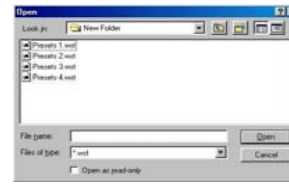


CLICK



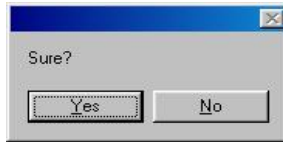
To Load Preset Values
from File on Hard Drive

DIALOGUE BOX



Clear All Presets

Clears all Presets
of Nom, Min & Max
Values Settings



The PC Front End - Mode Access

PC Front End - Mode Access			
Mode	End User Access	Distributor Access	Master Access
Language	Without Password	Without Password	Without Password
Unit	Without Password	Without Password	Without Password
Date	Without Password	Without Password	Without Password
Trac	Without Password	Without Password	Without Password
Peak	Without Password	Without Password	Without Password
Preset	Without Password	Without Password	Without Password
Set	Without Password	Without Password	Without Password
Recall	Without Password	Without Password	Without Password
Clear	Without Password	Without Password	Without Password
Upload	Without Password	Without Password	Without Password
Calibration		Access with Password	Access with Password
Cal Coefficients			Access with Password
Serial No			Access with Password
Model No			Access with Password
Make			Access with Password

IMPORTANT NOTICE

The End User cannot access the Mountz Master Versions of the PC Front End. The End User does not require a Password to access PC Front End (Just Click OK at Password Prompt) This is to Safeguard the Authenticity of Calibration.

To Activate Calibration with TORQUE PCFE

1. Input dd/mm/yyyy in the Calibrated On Filed

2. Input "No of Days to next Calibration " in the
Period of Calibration (in days) Field.

The screenshot shows a software interface for wrench calibration. At the top, there are input fields for 'Wrench Serial No.' (11589), 'Model' (250), and 'Make' (bms). Below these are 'Wrench Span' (230) and 'Span Units' (NM). The 'Current Mode' is set to TRACK, 'Current Units' to CNM, and 'Current Language' to English. The 'Calibrated on' field contains the date 01.01.1999, and the 'Period of Calibration (in days)' field contains 30. Below these are calibration coefficients for 'L' and 'R' sides, each with three input boxes containing values like 111, 1223, and 2807. At the bottom, there are buttons for 'Activate Calibration', 'Power off the Wrench', 'Store to Wrench', and 'Default Calibration'. A row of ten blue indicator lights is visible at the very bottom of the interface.

3. Click on "Activate Calibration" .

Calibration must begin before the Wrench
automatically powers down (1.5 Min)

4. Click Default Calibration to Reset the Wrench. All data / settings stored

in the Wrench will be cleared and default calibration values for the wrench's
specific calibration span will be programmed.

Solution: When Torque has not been applied during the Calibration Procedure.

1 Connect the Wrench to the PCFE using the RS232 Connection Cable.

2 Wait until communication with the wrench is established.

Note: Cal Coefficients will read

3 Click "Default Calibration"

4 Click "Yes" when prompted Are you sure ?

Note: The Wrench will power down automatically

5 Power Up the Wrench

6 Click "Activate Calibration"

The Wrench is now ready to be Recalibrate.

Angle wrench Set Mode - Keypad Function

- 1 Press **M** to Scroll to Set Mode, Press confirm and select "Set T" or Set "TA"
- 2 If you are setting a Torque only preset see page 6 of these instructions
- 3 Press **↑** To select select "set TA"
- 4 Press **↑** **↓** To select the Preset number you want to use
- 5 Press **✓** to select your preset
- 6 Press **↑** **↓** To set the torque Value
- 7 Press **✓** to confirm the value
- 8 Press **↑** **↓** To select the Angle value you require
- 9 Press **✓** To confirm the Angle value
- 10 Press **M** To go to Preset menu
- 11 Press **✓** To select the Preset option
- 12 Press **↑** **↓** To select your required Preset
- 13 Press **✓** To store the readings you are taking
- 14 Press **M** To go to "Recall" to see results or view results on PCFE.

Angle wrench User Information

A torque-angle wrench is used for applying torque, to fasteners or bolts, through a tightening angle, at a rotational angular velocity.

A gyroscopic sensor device coupled with existing electronic circuitry is added to the wrench. As the wrench is rotated through the tightening angle, its rotational angular velocity is sensed and converted, by appropriate sensing circuitry, into an electrical signal proportional in intensity to the rotational angular velocity of the wrench. The electrical signal can be electronically processed by appropriate conversion and display circuitry to provide a visual indication of the tightening angle.

The calibration of the Angle wrench occurs directly after regular calibration the user is prompted to rotate the wrench 180 degrees and press confirm

In Set Mode 99 Individual Preset showing Nominal, Min and Max Values or Torque and Angle can be set from Wrench Keypad or PC.

Select Just Move or Just Angle from Wrench Menu

Just Move - Operation This function will display and hold the peak Torque value been applied, The Peak value will be displayed on the top row of the LCD, The bottom row will show Angular rotation. Once the torque reading is completed the display will show the following, Torque at 3 degrees – what the torque was when wrench was moved through 3 degrees Final Peak Torque and final angle achieved.

Just Angle - Operation This function will show the torque and angle reading after a wrench has been rotated. The top of the screen will show actual torque, while the bottom of the screen will show the angle reading as the wrench is rotated. The final torque and angle values are held with an option to store



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