

CALIBRATION TUTORIAL

DIGITAL TORQUE WRENCHES



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LOGIN FOR CALIBRATION

WWW.CALIEXPERT.COM

- GO TO HTTP://WWW.CALIEXPERT.COM
- ENTER LOGIN ID AND PASSWORD CLICK THE "LOGIN" BUTTON





RS232 PARAWRITER INSTALLATION

- USERS CAN DOWNLOAD "RS232 PARAWRITER" SOFTWARE (RAR FILE FROM THE WEBSITE WWW.CALIEXPERT.COM)
- = EXTRACT THE RAR FILE TO YOUR COMPUTER AND INSTALL IT



CLICK "SETUP" FOR RS232 PARAWRITER INSTALLATION



CLICK "OK" FOR THE NEXT STEP





RS232 PARAWRITER INSTALLATION

= CLICK THE PICTURE BUTTON FOR THE NEXT STEP

 RS232 ParaWriter V1.1 Setup

 Begin the installation by clicking the button below.

 Image: Click this button to install RS232 ParaWriter V1.1 software to the specified destination directory.

 Directory:

 D:\Program Files\RS232 ParaWriter\

 Exit Setup

CLICK "CONTINUE" FOR THE NEXT STEP

| Group | s list. |
|-------|--|
| | Program Group: |
| | RS232 ParaWriter V101 |
| | Existing Groups: |
| | Accessories |
| | R5232 ParaWriter V1.0 R5232 ParaWriter V1.1 |
| | R5232 Uploader |
| | Startup |
| | |
| | |
| | |

CLICK "OK" TO FINISH THE INSTALLATION





PREPARE THE TORQUE VALUES FIRST

CALIBRATION:

THE TORQUE WRENCH SHALL BE TESTED FIRST AT 20%, THEN AT 60% AND AT 100% OF THE MAXIMUM TORQUE VALUE OF THE TORQUE WRENCH

= EXAMPLE:

| TORQUE TESTER | WRENCH |
|---------------|--------|
| 68,4 | 68 |
| 205,1 | 204 |
| 341,7 | 340 |



PLEASE PREPARE THE WRENCH AND THE CORRESPONDING CONNECTION CABLE





- CONNECT THE CABLE TO THE COMPUTER AND THE WRENCH RESPECTIVELY
- OPERATE THE WRENCH TO "SEND" MODE



START RS232 PARAWRITER



- SELECT THE COMMUNICATION PORT FIRST
- AFTER SELECTION, PLEASE CLICK "PORT OPEN" BUTTON

NORMALLY, THE COMMUNICATION PORT OF DESKTOP IS SELECTED TO BE "COM1" - BUT FOR LAPTOP, THE COMMUNICATION PORT MAY BE "COM3"-"COM10"





 HOW TO CHOOSE PORT NUMBER? (USB CABLE ILLUSTRATION)



PLEASE SELECT THE CALIBRATION DIRECTION FIRST

CW: CLOCKWISE CCW: COUNTER CLOCKWISE



 PLEASE SELECT "FRACTION NO." (DIGITS AFTER DECIMAL POINT) FOR THE WRENCH BEFORE CALIBRATION

PLEASE MAKE SURE YOU HAVE ALREADY SELECTED THE "FRACTION NO." BEFORE CALIBRATION. EXAMPLE: $30.00 \text{ NM} \rightarrow$ FRACTION NO. = 2 $340.0 \text{ NM} \rightarrow$ FRACTION NO. = 1





PLEASE CLICK THE "GET" BUTTON TO DOWNLOAD PARAMETERS FROM WRENCH



AFTER READING, YOU CAN GET SEQUENTIAL NUMBERS WHICH ARE SHOWED IN RS232 PARAWRITER'S "PARAMETERS COLUMN"

THE SEQUENTIAL NUMBERS IN "PARAMETERS" WILL BE USED WHEN YOU PROCEED TO THE WEBSITE SUPPORT CALIBRATION.

-



PLEASE READ THE NECESSARY INFORMATION FIRST BEFORE CALIBRATION. THEN CLICK "CALIBRATION" FOR NEXT STEP



- PLEASE FILL UP THE FOLLOWING COLUMN WITH THE NECESSARY INFORMATION FOR CALIBRATION
- WHEN FINISHING, PLEASE CLICK BUTTON FOR NEXT STEP



= THEN YOU CAN SEE A BLANK COLUMN TO BE FILLED



PLEASE "COPY" THE PARAMETERS FROM RS232 PARAWRITER AND "PASTE" IT TO "PARAMETERS COLUMN" OF WEBSITE





HINT 1:

 CLICK AND DRAG THE MOUSE POINTER OVER THE TEXT YOU WANT TO "COPY" FROM THE COLUM → RIGHT CLICK THE MOUSE → LEFT CLICK TO CHOOSE "COPY"



HINT 2:

■ POSITION THE CURSOR WHERE YOU WANT THE TEXT TO "PASTE" IN THE COLUMN → RIGHT CLICK THE MOUSE → LEFT CLICK TO CHOOSE "PASTE"

| RS232ParaWriter V1.1 | | | File Edit View Pavorites Tools Help | |
|--|-------------------------------|-----------------------|---|--------|
| | | | 🔾 Back • 💭 · 💌 🖻 🏠 🔎 Search 👷 Favorites 🧟 | |
| Som No[5 ⊻ [1200 ⊻ [0 ⊻ | N × P × Port (| Open Port Close | Address Nttp://www.facon-calbration.com/thorpt.ogn/webcalbration.aspc | 2 🔁 |
| | | | | |
| Direction Frontion No. | | | | |
| | | | | |
| Parameters | VIH VIL 3E /40 | VAH VAL Status | | |
| 0019568175164779356AAC8A7413142CA3E730 /27D322E366AB448422683FF73BE | CBEA087C0F2A5D5175875E0276698 | 32505378706C47F2148A9 | | |
| | | Get | | |
| | | | | |
| DUT DUT(hex)_H | DUT(hex)_L | | | |
| 00 N-m 00 | 05 | | | |
| | | Reading On | | |
| | | Reading OFF | Borometers | |
| | | | Cable Connection | |
| | | | ParaWriter Deumload | |
| New Parameters | VIH VIL | VAH VAL Status | Calibration Tutorials Copy | |
| | | 1 | Calibration | Next>> |
| | | 181 | | |
| | | | Select All | |
| | | Write | Select All | |
| | | Write | Select Al | |

AFTER FILLING THE COLUMN, PLEASE CLICK "NEXT" BUTTON FOR NEXT STEP



- PLEASE ENTER THE 20%, 60% AND 100% OF MAX. TORQUE FROM THE TESTER AND WRENCH RESPECTIVELY, THEN CLICK "GENERATE" BUTTON FOR NEXT STEP
- AFTER CLICKING THE "GENERATE" BUTTON, THE WEBSITE WILL GENERATE SEQUENTIAL NEW PARAMETERS



| Equipment | <u>New Parameter</u> | OD | 82 | 00 | 3C | 2A |
|-------------------------|--|--------------------------------|-----------------------|-----------|----------|---------------|
| <u>Cable Connection</u> | 00010437476E1875457BE25 41650B17180F46112E15903 | 54CB725B686C5 88B11AAD455B7 | 648166107426 40822 | 651740896 | 44631D37 | '6D878537F068 |
| alibration Tutorials | Error Result : . 146724860600 | 0135 % | | Conti | nue | End |



■ PLEASE "COPY" THE NEW PARAMETERS FROM WEBSITE AND PASTE IT TO RS232 PARAWRITER'S NEW PARAMETERS COLUMN

| quipment | New Parameter | 39 | 96 17 | 76 | | A |
|---|---|----------------------------------|--------------------------------|------------|-----------|-----------------------|
| e Connection | 000113243615C27DA741F985. 78BBAC4AE63A771797DC8719 | 2AB73032A42C2J 4838F5697103A3 | 1751800137E2 | 4F34F139E4 | CA1C9412 | 6465EF368 |
| riter Download | 1 | | Undo | | | |
| ation Tutorials libration | Error Result : .3256519132349 | 57 % | Cut Copy Paste Delete | Continue | | End |
| | °L | | Select All | - | | |
| 1 | | iu) | | | 🔮 In | iternet |
| I New Parar | neters | - 101 | VIH VIL 00 00 | | VAL | ternet |
|) New Parar | neters | ut | VIH VIL 00 00 | VAH 00 | VAL | ternet |
| New Parar | neters | - | VIH VIL 00 00 | VAH | VAL 00 | Status 00 Write |

WHEN FILLING THE RS232 PARAWRITER'S NEW PARAMETER'S COLUMN, PLEASE CLICK "WRITE" BUTTON TO UPDATE THE WRENCH'S PARAMETER

| New Parameters | | | | VAL | Status 00 |
|---|---------------|----------|----------|----------|--------------|
| 000118408790A68658A07286EA14CC4710687A44911AFC 37BD7F5822549DD71F987772871 | 14E72D74AC726 | 49E068E1 | 67391434 | 75096418 | 367F4DC7 🔨 |
| | | | _ | ▶ [| Write |
| | | | | | End |

- AFTER CLICKING "WRITING" BUTTON, THE "READING" WRITING ... " LABEL WILL APPEAR
- WHEN WRITING LABEL VANISHING, PLEASE REMEMBER TO RESET OR RE-START THE WRENCH, THEN THE NEW PARAMETERS HAS BEEN SUCCESSFULLY UPDATED TO WRENCH
- IF NECESSARY, PROCEED WITH THE SAME PROCEDURE ONCE AGAIN FOR CCW CALIBRATION



1 97 1 53 00 00 22 0001796230AE 6687970286958E 404576D 408550174395386629831A56BE 0E 36933A6FA6542174201363C60787 BF6238CB97A0764A035A3294212

Error Result : . 146724860600135 %

New Parameter

VAL

 VIH
 VIL
 VAH
 VAL
 Status

 57
 53
 00
 00
 22

Continue

82

00010437476E1875457BE254CB725E686C5648A66107426651740B9644631D376D87B537F06B 41650B17A80F46112E159038B11AAD455B740822

1

Get

End

Equipment

Cable Connection ParaWriter Download Calibration Tutorials

Calibration

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AFTER FINISHING THE CALIBRATION, PLEASE CLICK THE "END" BUTTON TO CLOSE RS232 PARAWRITER

| New Parameters | VIH VIL VAH VAL Status |
|---|--|
| 000118408790A68658A07286EA14CC4710687/ 37BD7F5822549DD71F987772871 | 444911AF04E72D74AC72649E068E1673914347509641867F4DC7 |
| | Write |
| | - End |