

RETW

Electronic Torque *Wrench*

Operating Instructions

Rev 2 (3/23/11)





Install Batteries

1. Unscrew metal end cap and install (4) high quality AA batteries in handle.

Notes: When batteries are low a “BATT” icon will light. When batteries are critically low the wrench will not turn on.

It is OK to use externally rechargeable batteries. Battery life depends on battery quality and the amount the lights and buzzer are used (target torque).

Keep the end cap threads clean and dry for a good contact.

Note!

Do not place Alkaline Batteries into Battery Charging Kit accessory as listed on page 6. Only use rechargeable batteries with that kit.



Power On

1. Press and hold the power button to turn the wrench on.

Notes: If you do not use the wrench for 3 minutes the wrench will automatically shut off.

Do not apply torque to the drive when you power up.

If the wrench comes on and then shuts off immediately the batteries are probably low.



View/Change the Pre-set Torque Value:

1. Press either target key once to see the current target value without making any changes. The target will show for 3 seconds.
2. Press and hold the Target - button to lower the current target value. Press and hold the Target + button to increase the current target value. The longer you press and hold the target key the faster the display will change.

When you apply torque with a target set:

As you get close to the target torque value you will see a yellow light warning you that you are approaching the target value.

When you are within 2% of the target value you will see a green light and hear a buzzer. Stop pulling!

When you go over 2% of the target value you will see a red light and hear an intermittent buzzer. Too much torque!

Changing Units:

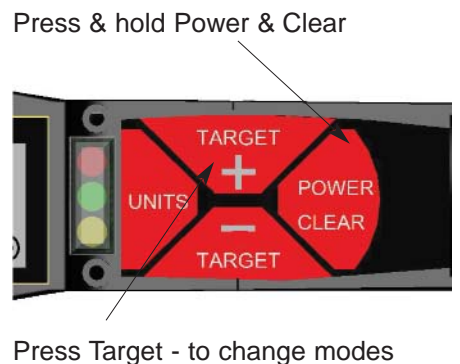
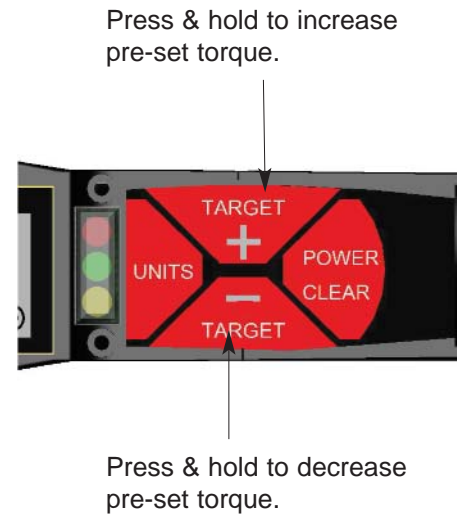
1. Press the Units button to select different torque units: ft.lb.....In.lb.....Nm

Notes: When you change units the target setting will also be changed to the new units value (makes a great torque conversion calculator).

The units selected will become the default units when the wrench is turned off and on again.

Changing from Peak to Track mode:

1. Press and hold the "Power Clear" button when the wrench is on.
2. Press the "Target - " button to change mode from Peak to Track while you hold the power/clear button.



Tolerance Settings:

1. The wrench has a hard setting at +/- 2% of pre-set torque.
2. The tolerance setting provides a visual and sound signal if the torque Passed or Failed.
 - If the torque is under the pre-set torque & tolerance setting - Yellow light
 - If the torque is within the pre-set torque & tolerance setting - Green light
 - If the torque is over the pre-set torque & tolerance setting - Red light

Applying Torque:

1. Tighten nut or bolt by applying a steady even pull using built in ratchet as necessary. Wrench should be kept at 90 degrees to axis of bolt during tightening.
2. When pre-set torque is reached, there are 3 ways to determine what torque is being applied:
 - Look directly at the LCD.
 - Pre-set torque and look for the lights.
 - Pre-set torque and listen for the buzzer.
3. Once pre-set torque is achieved, do not apply any more torque or you will over tighten it and might damage the tool.



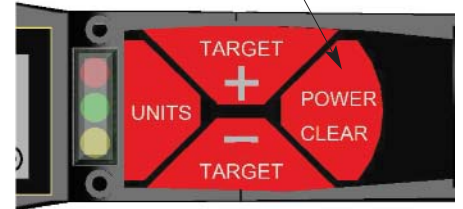
Note!

Make sure the tool is used within its torque range. If the tool is used under its torque range, then the accuracy may not be reliable. If the tool is used over the torque range, then you may damage it.

Manual Off:

1. To manually turn off the wrench, hold the Power button for 3 seconds.

Press the Power button to turn off wrench.

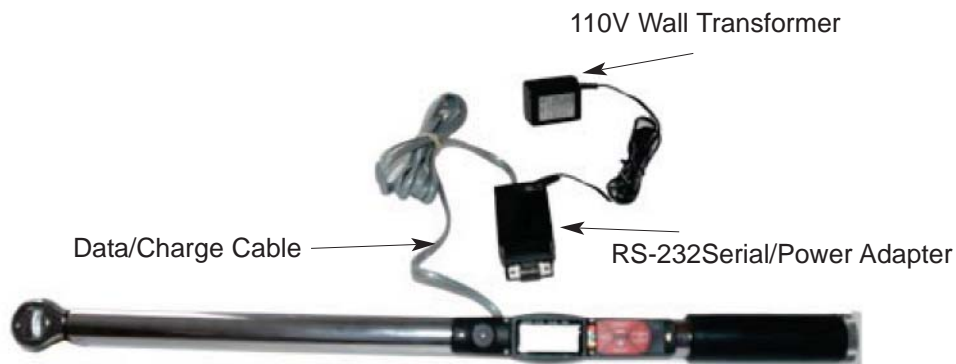


Accessories

Item # 290114

Model: RS-232 and Rechargeable Battery Adapter Kit

- Charge NimH batteries while using the wrench
- Use the wrench on external power (no batteries)
- Send torque information to a printer, computer, data logger (Data is sent automatically when the wrench clears or when the clear key is pressed)

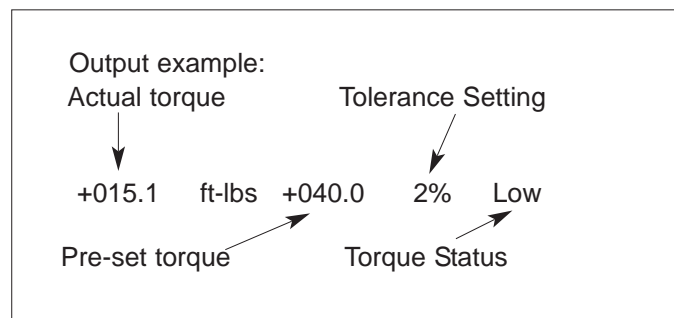


Sending Data to a Computer:

1. Plug the RS232 adapter in any 9 pin serial com. port on your computer.
2. Data is sent standard ASCII format. Protocol: 9600 Bps, 8,1,n

Information Sent (comma separated values):

- Torque value
- Units
- Pre-set torque setting
- Tolerance setting (%)
- Under/Pass/Over pre-set torque

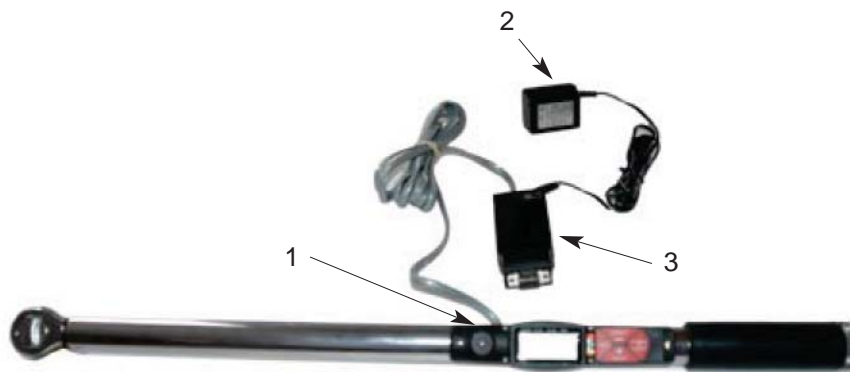


Recharging Batteries (internal NimH batteries):

1. Plug the RS232/Power cable in the back of the wrench.
2. Plug the RS232 adapter into the other end of the Data/Power cable.
3. Plug the transformer into the back of the Rs232/Power adapter.

Note!

Do not place Alkaline Batteries into Battery Charging Kit accessory. Only use rechargeable batteries with that kit.



Notes:

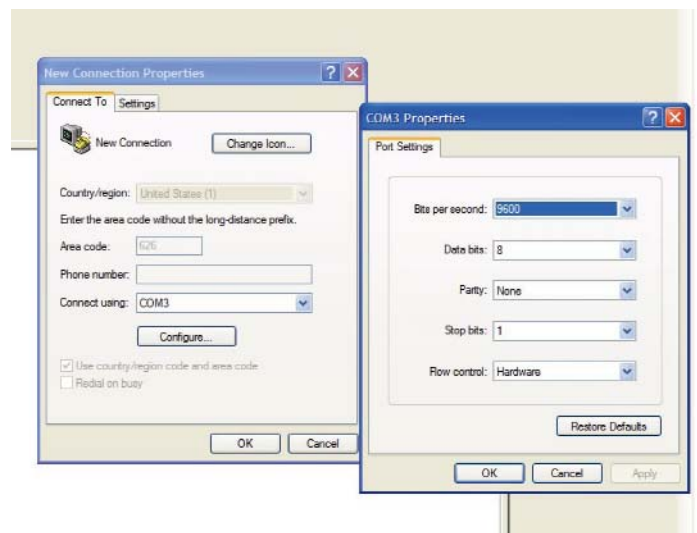
- The operator can use the wrench when the power adapter is charging the batteries.
- The operator can use the wrench on external power without batteries.
- The operator can charge the batteries while the

RS232/Power adapter is plugged into a computer (while you are

sending data to the computer).

Hyperterminal:

1. To Open Hyperterminal Select: A) Start...B) Programs...C) Accessories...D) Communications...E) Communications
2. Name the new file
3. Select Properties
4. Select Connect: Com X(Where X is the active com port)
5. Select Configure
6. Set parameters as shown
7. Select Connect





Accuracy +/- 2% of reading, +/- 1 digit

Designed for daily screw tightening production environment.

Program pre-set torque.

Rotating head allows viewing of the display from any angle.

Three units of torque measurement available: N.m, lbf.ft, lbf.in

Selection of two operating modes: Track and Peak.

Heavy duty ratchet head or interchangeable end fittings

Go/No Go LED's and a buzzer can be set for a high or low torque limits.

Four-digit display.

Battery operation (Optional - rechargeable battery adapter kit)

Optional RS-232 serial interface to download torque readings to a PC or printer.

Testing & Servicing

For testing the torque wrench either use a torque analyzer or torque transducer within the range of the torque wrench. Make sure you apply the torque slowly and smoothly.

In order to maintain accuracy, it is crucial that torque control measuring equipment be calibrated regularly.

We recommend a general once a year calibration interval. However, it is the user's organization that must determine suitable intervals based upon equipment performance, application, degree of usage and management objectives.

For calibration, re-adjustment or repairs, please send the tool to one of our 3 service locations.

Mountz Service Locations

Eastern Service Center

19051 Underwood Rd.
Foley, AL 36535
Phone: (251) 943-4125
Fax: (251) 943-4979

Western Service Center

1080 N.11th Street
San Jose, CA 95112
Phone: (408) 292-2214
Fax: (408) 292-2733

Mexico Service Center

Mountz Mexico SA de CV Chihuahua
Av. Cristobal Colon #15343
Col. Paseos de Chihuahua
Chihuahua, Chih. Mexico CP 31125
Phone: (614) 481-0023
Fax: (614) 481-0053

www.mountztorque.com

Download a "Service Form" and include a copy when you send the tools in to be serviced.