

*Eastwood*

DO THE JOB RIGHT.

Part #13625

# DIGITAL ELECTRONIC TORQUE-ANGLE ADAPTER INSTRUCTIONS



**IMPORTANT:** Please read these instructions thoroughly and carefully before operation. The instructions will provide you with important information regarding operation, warnings, and safety precautions.

Your **Eastwood Digital Electronic Torque-Angle Adapter** is a professional-quality tool designed for performing precision work on all vehicles with accuracy and quickness. With care, it will provide many years of reliable service.

## FEATURES

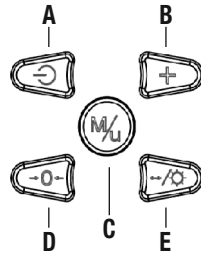
- Use with a standard square drive 3/8" or 1/2" ratchet wrench and sockets with included square drive adapters.
- Large back-lit display shows both target torque and real time reading.
- Red LED light and beeper tone provide visual and audible indication of when target torque and angle is reached.
- High accuracy within +/- 2%.
- Units of torque measure are selectable for maximum flexibility.
- Auto power off feature saves batteries.

## SPECIFICATIONS

<b>Drive:</b>	1/2" square drive (12.5 mm)
<b>Measuring Range:</b>	15-148 lb/ft [2-20 kg.m] / 177-1770 lb/in [20-200 N.m]
<b>Accuracy:</b>	±2% of reading @ 10% to 100% of full scale
<b>Angle Range:</b>	0° - 360°
<b>Angle Accuracy:</b>	±1°
<b>Display Resolution:</b>	1°
<b>Operating voltage:</b>	6V (2 #2032 batteries, supplied)
<b>Operating temperature:</b>	32°F - 104°F [0° - 40° C]
<b>Units of measurement:</b>	lb/ft, lb/in, kg.m, N.m

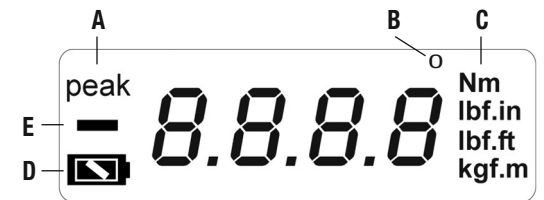
## FUNCTION KEYS

- A:** Power ON / OFF button
- B:** Enter the setting mode / Increase the value to program pre-set torque.
- C:** Measure model select between "track" and "peak" mode. / Unit select.
- D:** Return display to zero.
- E:** Backlight function / under program status, press to move to next decimal digit.



## LCD DISPLAY


- A:** Peak mode indicator
- B:** Angle mode
- C:** Units
- D:** Battery indicator
- E:** Counter-clockwise indicator



## PREPARATION FOR USE

- Open the battery cover by removing the small Phillips screw at the right side rear of the unit.
- Insert two CR2032 batteries with the “positive (+)” sides facing outward
- Insert the square drive adapters as required (1/2” or 3/8”)






## TURNING THE TOOL ON / OFF

1. Press  button to turn unit on, and the display shows “0000” on the screen.



## BATTERY SAVING FEATURES



The Torque Adapter will turn off automatically with inactivity after 4 minutes.

## SETTINGS

1. Press  button to switch into Torque or Angle measurement mode.
2. In order to access the torque / angle setting mode press the  button for 2 seconds.
3. **(A) IN TORQUE SETTING MODE** At first, “SET “ is shown on the display for 1 second. After that, the display skips to the last saved torque or “ 0000 “. The first digit of this value ( “ 0000 “ ) is flashing. Press the  button to zero the last saved value. Or by repeatedly pressing the  button, the value of the flashing digit is gradually increased. When the desired value is selected, press  **to select the next numeric place to the right.** Example: for a torque setting of **75 lb/ft**, the display should read 075.0.

**NOTE:** Even though the torque value can be set to 9999, do not exceed the rated maximum range.



**(B) IN ANGLE SETTING MODE** At first, “ SET “ is shown on the display for 1 second. After that, the display skips to the last saved angle or “ 0° “. Press the  button to zero the last saved value. Or by repeatedly pressing the  button, the value is gradually increased.

4. When the required **Angle** value is selected, press the  button in order to save this pre-set value.
5. After approx. 2-3 seconds the display will show “ 0.0 “ or “0° “
6. **UNDER ANGLE MEASURING MODE** Press the  button switch the rotation of torque Adapter in a CW or to a CCW direction.


### NOTE:

1. “Erro” (for ERROR will show on the display when the pre-set torque value exceeds 100% of the maximum torque value. After 1 second, the display returns to torque Measurement Mode.
2. After pressing the “+” button to access the torque setting mode, without any activity after 6 seconds, the display will return to Measurement Mode.

## TRACK / PEAK MODE SETTING

1. “TRACK” is the default mode when the Torque Adapter is turned on.
2. Press and release  button to shift into “PEAK” mode. “PEAK” appears on the left side of the display.
3. In “TRACK” mode: the display shows the reading in real time during the torquing process.
4. In “PEAK” mode: The maximum value reached during use will be saved and the value is shown steadily on the display for approx. one second. After that, the value changes to flashing and you can continue directly to the next application **or** press the  button to zero the value, then continue to the next application.

## TURNING THE DISPLAY ILLUMINATION ON / OFF

1. The display illumination can be turned on prior to or after programming the torque.
2. In order to do this, press and hold the  button for 2 seconds.

## OPERATING THE TORQUE ANGLE ADAPTER

1. Always slowly and steadily **PULL** to gradually build torque. Avoid quick jerky movements.
2. When you approach the programmed torque value **the buzzer will sound and the RED light will flash.**
3. When close to (within 2% of) the programmed value, **the buzzer will emit a quicker sound and flash sequence.**
4. When the programmed torque has been achieved, the buzzer will emit a **continuous tone and the RED light will steadily illuminate.**

**NOTE:** When the force is applied counter-clockwise, the display will show a minus (-) sign in the left side of screen.

### NOTE:

1. **NEVER USE THE TORQUE ADAPTER WHEN THE BATTERIES ARE LOW. THE ACCURACY OF READINGS WILL BE AFFECTED.**
2. The display will not show a reading until the applied force has exceeded 10% of full scale.
3. “- - -” will be shown on the screen, when applied torque has exceeded 5% of the maximum of torque value. (See specifications).

## TORQUE ADAPTER USE AND CARE

- Do not exceed the permitted maximum torque value for this tool. Over torquing the unit can cause permanent damage.
- Be sure all accessories including adapters, extensions and sockets are rated to match or exceed the torque being applied.
- Use the correct size socket for the fastener.
- Do not use sockets that are cracked or damaged.
- Do not use the Torque Adapter near corrosive gas or liquid.
- Keep away from strong magnetic fields.
- Never hold or operate the unit with wet or greasy hands.
- Never apply torque when the tool is turned off or permanent damage can occur.
- Periodic re-calibration may be necessary to maintain accuracy.
- Check that the Torque Adapter capacity matches or exceeds each application before proceeding.
- Verify the calibration of the Torque Adapter if you know or suspect its capacity has been exceeded.
- Do not drop and avoid excessive bumps or shock to this tool.
- Verify calibration if dropped.
- If the tool is to be unused for an extended period of time, remove the batteries to prevent damage from leakage.

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**If you have any questions about the use of this product, please contact**

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