

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 quick precision work on all vehicles. With care, it will provide many years of reliable service.

FEATURES

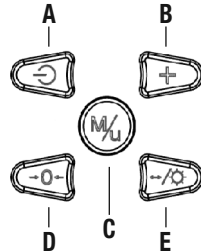
- Use with a standard square drive 3/8" or 1/2" ratchet wrench and sockets with included square drive adapters.
- Large back-lit display shows both target torque and real time reading.
- Red LED light and beeper tone provide visual and audible indication of when target torque and angle is reached.
-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

SPECIFICATIONS

Drive:	1/2" square drive (12.5 mm)
Measuring Range:	15-148 lb/ft [2-20 kg.m] / 177-1770 lb/in [20-200 N.m]
Accuracy:	±2% of reading @ 10% to 100% of full scale
Angle Range:	0° - 360°
Angle Accuracy:	±1°
Display Resolution:	1°
Operating voltage:	6V (2 #2032 batteries, supplied)
Operating temperature:	32°F - 104°F [0° - 40° C]
Units of measurement:	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 mode select between "track" and "peak" Mode / Unit select.
- D:** Return display to zero.
- E:** Backlight function / move to next digit.



LCD DISPLAY

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




WRENCH AND SOCKET ADAPTORS

Three different size adaptors are included with the Torque Adapter. These adaptors allow you to utilize either 1/2" or 3/8" ratchets and sockets.

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.

PROGRAMMING SETTINGS

1. Press  button to enter the setting. The display shows “SET” on the screen. After 2 seconds, “0000” or the last programmed value will be shown on display, and the left first digit will start flashing, press  button to zero the reading, or press the  button to increase the value. 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.

2. Once the target torque is set, press the  button to memorize and exit setting mode.



NOTE:

- “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.
- After pressing the “+” button to access the torque setting mode, without any activity after 6 seconds, the display will return to Measurement Mode.


SELECTING UNITS

1. Press and hold the  button.
2. While continuing to hold down the  button, the display will cycle through all of the possible unit selections.
3. Let go of the  button when the display shows the units you would like to select.

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.

OPERATING THE TORQUE ANGLE ADAPTER

1. Select the socket and ratchet required for your work.
2. Choose the appropriate input and output adaptors to utilize the ratchet and socket size you will be using and install the adaptors onto the 1/2” Square Drive Inputs and Outputs on the Torque Adapter.
3. Attach the socket firmly to the bottom square drive of the Torque Adaptor, it will be held in place by the ball stop of the square drive.
4. Attach the ratchet to the top square drive of the Torque Adaptor.


NOTE: If possible, do not use any extensions because they may distort the torque applied to the bolt.

APPLYING PROGRAMMED TORQUE

1. The Torque Adapter defaults to Torque Measurement Mode – if the Torque Adapter is in Angle Measurement Mode, press the  button to switch to Torque Measurement Mode.
2. Program the value necessary following the instructions in the **Settings Section**.
3. Place the socket on the fastener.
4. Grip the ratchet and pull with a slow, easy movement. Avoid jerky movements.
5. When you approach the programmed torque value, the buzzer will sound and the RED light will flash.
6. When close to (within 2%) the programmed value, the buzzer will emit a quicker sound and flash sequence.
7. When the programmed torque has been achieved, the buzzer will emit a continuous tone and the RED light will steadily illuminate.

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

APPLYING PROGRAMMED ANGLE

1. Press the  button to switch to Angle Measurement Mode.
2. Program the value necessary following the instructions in the **Settings Section**.
3. Place the socket on the fastener.
4. Grip the ratchet and pull with a slow, easy movement. Avoid jerky movements.
5. When you approach the programmed torque value, the buzzer will sound and the RED light will flash.
6. When close to (within 2%) the programmed value, the buzzer will emit a quicker sound and flash sequence.
7. When the programmed torque has been achieved, the buzzer will emit a continuous tone and the RED light will steadily illuminate.

NOTE:

- **NEVER USE THE TORQUE ADAPTER WHEN THE BATTERIES ARE LOW. THE ACCURACY OF READINGS WILL BE AFFECTED.**
- The display will not show a reading until the applied force has exceeded 10% of full scale.
- “- - -” 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.

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

The Eastwood Technical Assistance Service Department: 800.544.5118 >> email: techelp@eastwood.com

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