



CE

UK  
CA

**E.2000-5A**

**E.200-50A**

**E.2000-350A**

**WWW.FACOM.COM E.2000-1000A**

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Fig. A

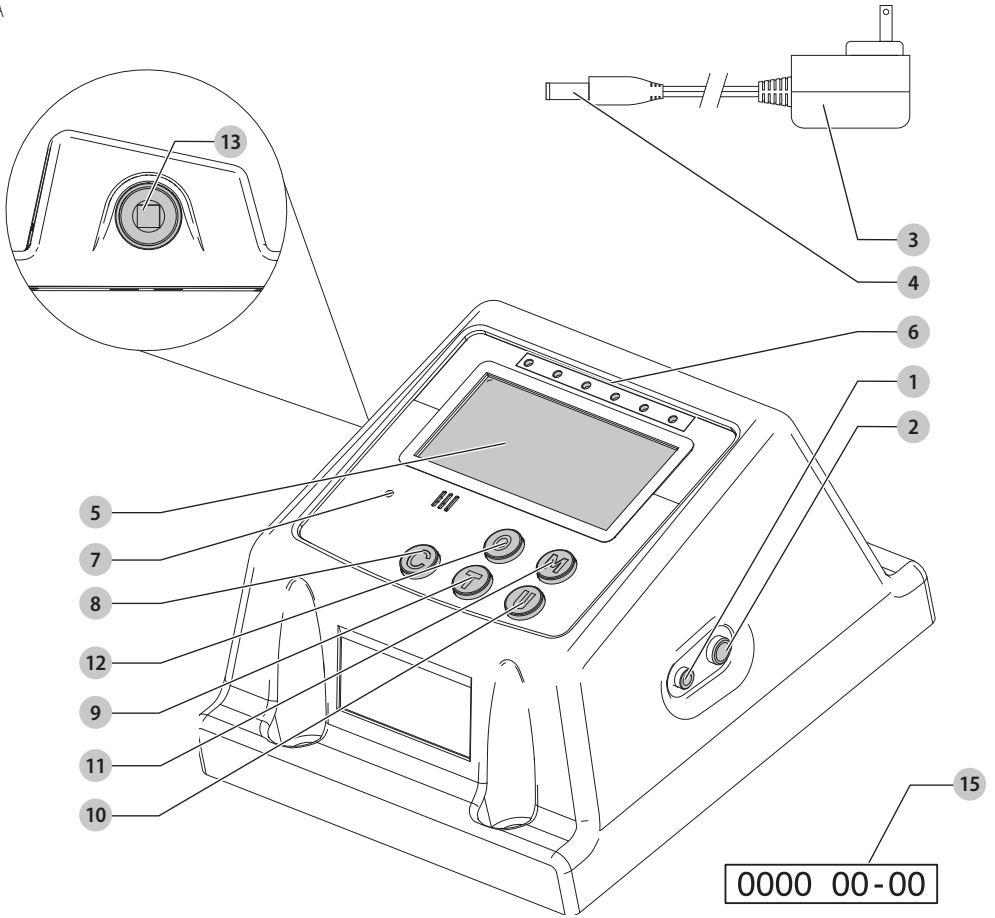


Fig. B

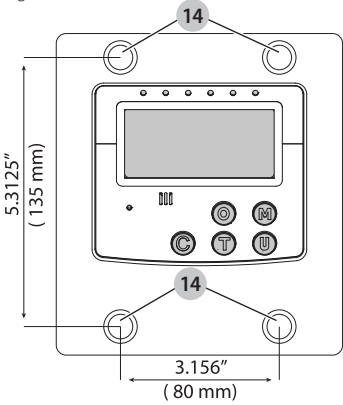


Fig. C

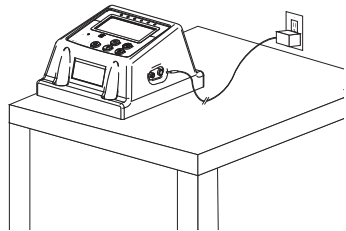
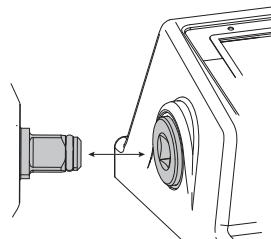


Fig. D



# DIGITAL TORQUE TESTER

## E.2000-5A

### Congratulations!

You have chosen a FACOM tool. Years of experience, thorough product development and innovation make FACOM one of the most reliable partners for professional power tool users.

### Technical Data

	E.2000-5A	E.200-50A	E.2000-350A	E.2000-1000A
Voltage	AC:100-240V at 50-60Hz input DC:12V output			
Accuracy*	+/- 1% or within +/- 3 digit CW			
Drive size	1/4"	3/8"	1/2"	27mm (male)
Torque range	0.5-5 Nm .4-4 ft-lb	5.0-50 Nm 4-37 ft-lb	35-350 Nm 26-258 ft-lb	100-1000 Nm 74-738 ft-lb
Communication	Yes. USB cable supported			
Operation Mode	Peak hold/Track/First peak			
Unit Selection	N-m, in-lb, ft-lb			
Operating Temperature	5 °C - 40 °C (41 °F - 104 °F)			
Storage Temperature	-20 °C - 70 °C (-4 °F - 158 °F)			
Humidity	Up to 90% non-condensing			
Units	N-m, ft-lb, in-lb			
Electromagnetic Compatibility Test**	Pass			

\* The accuracy of the readout is guaranteed from 10% to 100% of maximum torque +/- 1 increment. The torque accuracy is a typical value. For keeping the accuracy, calibrate the torque tester for a constant period time (1 year).

\*\* Electromagnetic Compatibility Test:

- Electrostatic Discharge immunity (ESD)
- Radiated Susceptibility (RS)
- Radiated Emission (RE)



**WARNING:** To reduce the risk of injury, read the instruction manual.

### Definitions: Safety Guidelines

The definitions below describe the level of severity for each signal word. Please read the manual and pay attention to these symbols.



**DANGER:** Indicates an imminently hazardous situation which, if not avoided, **will** result in **death or serious injury**.



**WARNING:** Indicates a potentially hazardous situation which, if not avoided, **could** result in **death or serious injury**.



**CAUTION:** Indicates a potentially hazardous situation which, if not avoided, **may** result in **minor or moderate injury**.

**NOTICE:** Indicates a practice **not related to personal injury** which, if not avoided, **may** result in **property damage**.



Denotes risk of electric shock.



Denotes risk of fire.

## SAFETY INSTRUCTIONS

When using an electrical torque tester, basic precautions should always be followed, including the following:

# READ ALL INSTRUCTIONS BEFORE USING THIS TORQUE TESTER



**WARNING:** Read all safety warnings and all instructions. Failure to follow the warnings and instructions listed below may result in electric shock, fire and/or serious injury.



**WARNING:** Do not attempt to modify or repair the torque tester.



**WARNING:** To reduce the risk of fire, electrical shock or injury:

- **Shock Hazard.** To protect against risk of electrical shock, do not put charging base in water or other liquid.
- **Do not allow to be used as a toy.** Close attention is necessary when used by or near children.
- **Use only as described in this manual.** Use only manufacturer's recommended attachments.
- **Do not put any object into openings.** Do not use with any opening blocked; keep free of dust, lint, hair, and anything that may reduce air flow.
- **Do not incinerate the torque tester even if it is severely damaged.** The batteries can explode in a fire.

### Additional Safety Warnings

- This torque tester is intended for professional, commercial or industrial use only.
- Do not use a battery or torque tester that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
- Do not expose a battery or torque tester to fire or excessive temperature. Exposure to fire or temperature above 130 °C (266 °F) may cause explosion.
- Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.

## SAVE THESE INSTRUCTIONS

## Additional Safety Rules for Torque Torque Testers



### WARNING:

- ALWAYS use safety glasses. Everyday eyeglasses are NOT safety glasses. ALWAYS WEAR CERTIFIED SAFETY EQUIPMENT:
  - ANSI Z87.1 eye protection (CAN/CSA Z94.3)
- Do not use the unit outdoors. Unit intended for indoor use only.
- ALWAYS ensure accessories are not chipped or damaged to reduce the risk of loose debris causing injury.
- Do not expose to excessive heat or humidity to avoid deformation or corrosion, which may affect accuracy.
- Do not use this torque tester in water since fluid ingress will affect the circuitry resulting in damage and potentially electrical shock.
- NEVER use on live electrical circuit, torque tester does not protect you from electrical shock. Turn off power before use.
- Over torque (exceeding stated maximum capacity by 110% can result in damage, breakage or affect accuracy).
- Avoid use of solvents, chemicals, liquids.
- Do not attempt to disassemble or repair. Refer to an authorised service centre.
- Guard against snagging of clothing, hair, jewellery or anything that could impair movement of the product or work piece and lead to damage or injury.
- Over-torquing (110% of maximum torque range) could cause breakage or impede accuracy.
- Do not shake violently or drop torque tester.
- Do not use this torque tester as a hammer.
- Do not leave this torque tester in any place exposed to excessive heat, humidity, or direct sunlight.
- Do not use this apparatus in water, as it is not waterproof.
- If the torque tester gets wet, wipe it with a dry towel as soon as possible. The salt in seawater can be especially damaging.
- Do not use organic solvents, such as alcohol or paint thinner when cleaning the torque tester.
- Keep this torque tester away from magnets.
- Do not expose this torque tester to dust or sand as this could cause serious damage.
- Do not apply excessive force to the LCD panel.
- Apply torque slowly and grasp the center of the handle. Do not apply load to the end of the handle.



### CAUTION:

- Hard impacts or dropping the torque tester may impair accuracy of the torque tester. If the torque tester is dropped or receives a sharp impact have the torque tester accuracy checked.
- To ensure correct operation and accuracy this product must be calibrated periodically in line with standards.

## SAVE THESE INSTRUCTIONS

### Residual Risks



**WARNING:** We recommend the use of a residual current device with a residual current rating of 30mA or less.

In spite of the application of the relevant safety regulations and the implementation of safety devices, certain residual risks cannot be avoided. These are:

- Impairment of hearing.
- Risk of personal injury due to flying particles.
- Risk of burns due to accessories becoming hot during operation.
- Risk of personal injury due to prolonged use.

### SAVE THESE INSTRUCTIONS

### Package Contents

The package contains:

- 1 Torque tester
  - 1 AC/DC power adapter
  - 1 USB connector
  - 1 Declaration of conformance
  - 1 Instruction manual
- Check for damage to the tool, parts or accessories which may have occurred during transport.
  - Take the time to thoroughly read and understand this manual prior to operation.

### Date Code Position (Fig. A)

The date code **15**, which also includes the year of manufacture, is printed into the housing.

Example:

2022 XX XX

Year and Week of Manufacture

### Description (Fig. A)



**WARNING:** Never modify the tool. Damage or personal injury could result.

- 1 Communication port
- 2 AC/DC power port
- 3 AC/DC power adapter
- 4 AC/DC power plug
- 5 LCD screen
- 6 LED indicators
- 7 System reset button
- 8 Power on/clear button
- 9 Target/Tolerance/Idle sleep setting/Over torque display
- 10 Unit switch button
- 11 Mode selection button
- 12 Zero reset Button
- 13 Drive sensor

### Intended Use

Your FACOM Digital Torque Tester is designed for checking the accuracy of hand operated torque setting tools, such as mechanical 'click' wrenches, electronic torque wrenches and dial gauge torque wrenches.

**DO NOT** use under wet conditions or in the presence of flammable liquids or gases.

**DO NOT** let children come into contact with the tool.

Supervision is required when inexperienced operators use this tool.

- **Young children and the infirm.** This appliance is not intended for use by young children or infirm persons without supervision.
- This product is not intended for use by persons (including children) suffering from diminished physical, sensory or mental abilities; lack of experience, knowledge or skills unless they are supervised by a person responsible for their safety. Children should never be left alone with this product.

## ASSEMBLY AND ADJUSTMENTS

### Mounting Torque Tester to a Surface (Fig. B, C)

This tool is designed to be mounted to a table or work surface prior to use. Ensure its mounted within reach of an electrical outlet. Make sure the mounting method is suitable for the surface type and is appropriate to the application of the tool.

1. Use the bottom of the tool as a template for the location of the mounting hardware holes. See Fig. B for details.
2. Mark the location of the four 3/8" (10 mm) mounting holes **14** on the surface (within reach of an electrical outlet as shown in Fig. C).
3. Secure the tool to the surface using appropriate hardware for the chosen surface material, and the weight of the tool.


### Powering on and off (Fig. A)

1. To power on, press the power button **8**. The tool will signal with an audible beep and then power on.
2. To switch off, press and hold the power button **8**. The tool will signal with an audible beep and then power off.  
**NOTE:** After sitting idle for two minutes the tool will signal with an audible beep and then power off automatically.

### Before Using the Torque Tester (Fig. A)

1. Plug the AC/DC power adapter **3** into any standard 120 Volt 60 Hz electrical outlet.
2. Plug the AC/DC jack plug **4** of the AC/DC power adapter **3** into the AC/DC power port **2** of the tool.

### Power on and zeroing the torque tester


1. Press the power button **8** to power on the tool.
2. Press and hold the zero reset button **12** to zero the torque tester before using the tool.  
**NOTE:** Your LCD screen **5** will appear as shown .

### Auto power off

1. To conserve energy, after sitting idle for two minutes the tool will signal with an audible beep and then power off automatically.
2. Press the power button **8** to power on the tool.




### Hardware reset







**WARNING:** If  appears, it means this tool has been torqued to more than 110% of its maximum torque capacity.

1. To do hardware reset, use a pin to touch the system reset button **7** and then press the power button **8** to power on the tool.





### Setting Target Torque

1. To set target torque, press and hold the target button **9** until  is displayed on the LCD screen **5**. This indicates you are adjusting the target torque.
2. Press the mode selection button **11** to increase the target torque.
3. Press the unit switch button **10** to decrease the target torque.
4. To exit this screen mode press the target button **9** until  is displayed on the LCD screen **5**. Your LCD screen **5** will appear as shown .





### Setting Tolerance Percentage

1. To set tolerance percentage, press and hold the target button **9** until  is displayed on the LCD screen **5**.
2. Press the target button **9** to cycle through the menu until  is displayed on the LCD screen **5**. This indicates you are adjusting the tolerance percentage.
3. Press the mode selection button **11** to adjust the upper level tolerance
4. Press the unit switch button **10** to adjust the lower level tolerance.
5. To exit this screen mode press the target button **9** until  is displayed on the LCD screen **5**. Your LCD screen **5** will appear as shown .





### Setting Idle to Sleep Seconds

1. To set idle sleep time, press and hold the target button **9** until  is displayed on the LCD screen **5**.
2. Press the target button **9** to cycle through the menu until  is displayed on the LCD screen **5**. This indicates you are adjusting the idle sleep time.
3. Press the mode selection button **11** to increase the idle sleep time.
4. Press the unit switch button **10** to decrease the idle sleep time.
5. To exit this screen mode press the target button **9** until  is displayed on the LCD screen **5**. Your LCD screen **5** will appear as shown .






### Displaying Over-torque Percentage

1. To see the over-torque percentage, press and hold the target button **9** until  is displayed on the LCD screen **5**.
2. Press the target button **9** to cycle through the menu until  is displayed on the LCD screen **5**. This indicates you are viewing the over-torque percentage.
3. To exit this screen mode press the target button **9** until  is displayed on the LCD screen **5**. Your LCD screen **5** will appear as shown .

## Setting Measuring Mode

- To set tolerance percentage, press the mode selection button **11**.
- Select one of the following modes displayed on the LCD screen **5**:
  -  Peak
  -  First peak
  -  Track
- To exit this screen mode release the mode selection button **11** on the chosen mode. Your LCD screen **5** will appear as shown .

## Setting Unit Selection


- To set unit selection, press the unit switch button **10**.
- Select one of the following units displayed on the LCD screen **5**:
  -  ft lb: Pounds feet
  -  in lb: Pounds inch
  -  N m: Newton meter
  -  kg cm: Kilogram centimeters
- To exit this screen mode release the unit switch button **10** on the chosen unit. Your LCD screen **5** will appear as shown .

## OPERATION

### Installing a wrench (Fig. A, D)


- Insert the 1/2 inch anvil from the tool that you wish to test into the 1/2 inch drive sensor **13** on the torque tester as shown in Fig. D.
- Ensure the tools 1/2 inch anvil is fully inserted into the 1/2 inch drive sensor **13**.

### Peak Mode

If  appears, it means this tool has been torqued to more than 110% of its maximum torque capacity press the power button **8** to clear the tool. Then press the power button **8** to transmit serial data out (Serial port communication settings: 9600 Baud, 8 data bits, 1 stop bit, no parity).

- With the torque tester mode set to peak, press the power button **8** or the zero reset button **12** to reset previous measurements.
- Apply torque.
- The below torque tolerance measurement will display on the LCD screen **5**.
- Apply torque.
- The torque tolerance measurement will display on the LCD screen **5**.
- Apply torque.
- The over-torque tolerance measurement will display on the LCD screen **5**.
- Release torque.

### First Peak Mode


If  appears, it means this tool has been torqued to more than 110% of its maximum torque capacity press the power button **8** to clear the tool.

- With the torque tester mode set to first peak, press the power button **8** or the zero reset button **12** to reset previous measurements.
- Apply torque.
- First peak measurement will display on the LCD screen **5**.
- LED indicators **6** will illuminate according to target tolerance.
- Three beeps will sound.

**NOTE:** Once first peak is captured, serial data transmitted after 3 beeps, and cleared automatically (Serial port communication settings: 9600 Baud, 8 data bits, 1 stop bit, no parity).

- Release torque.

### Track Mode

If  appears, it means this tool has been torqued to more than 110% of its maximum torque capacity press the power button **8** to clear the tool. Then press the power button **8** to transmit serial data out (Serial port communication settings: 9600 Baud, 8 data bits, 1 stop bit, no parity).

- With the torque tester mode set to track, press the power button **8** or the zero reset button **12** to reset previous measurements.
- Apply torque.
- The below torque tolerance measurement will display on the LCD screen **5**.
- Apply torque.
- The torque tolerance measurement will display on the LCD screen **5**.
- Apply torque.
- The over-torque tolerance measurement will display on the LCD screen **5**.
- Release torque.

## MAINTENANCE

Your power tool has been designed to operate over a long period of time with a minimum of maintenance. Continuous satisfactory operation depends upon proper tool care and regular cleaning.



**WARNING:** *To reduce the risk of serious personal injury, turn tool off and disconnect tool from power source before making any adjustments or removing/installing attachments or accessories. An accidental start-up can cause injury.*



## Lubrication

Your power tool requires no additional lubrication.



## Cleaning



**WARNING:** *Blow dirt and dust out of the main housing with dry air as often as dirt is seen collecting in and around the air vents. Wear approved eye protection and approved dust mask when performing this procedure.*



**WARNING:** *Never use solvents or other harsh chemicals for cleaning the non-metallic parts of the tool. These chemicals may weaken the materials used in these parts. Use a cloth dampened only with water and mild soap. Never let any liquid get inside the tool; never immerse any part of the tool into a liquid.*

## Optional Accessories



**WARNING:** *Since accessories, other than those offered by FACOM, have not been tested with this product, use of such accessories with this tool could be hazardous. To reduce the risk of injury, only FACOM recommended accessories should be used with this product.*

Consult your dealer for further information on the appropriate accessories.

## Protecting the Environment



Separate collection. Products marked with this symbol must not be disposed of with normal household waste.



Products contain materials that can be recovered or recycled reducing the demand for raw materials. Please recycle electrical products according to local provisions. Further information is available at [www.2helpU.com](http://www.2helpU.com).