

# FGA ADJUSTABLE TORQUE SCREWDRIVER (V2) OPERATING INSTRUCTIONS

Rev 1.0 (6/15/2022)

## How to Identify a FGA v2 model

There are two ways to identify whether you have a v2 or a v1 model.

1. The v2 models has separate battery access cover (see page 2) on the lower side of the handle. The v1 models does not.
2. Second option is to move the locking bar slide into the unlock position and adjust the knob (CCW direction) below the torque range capacity. Once you pass the letter "L," if it displays a firmware version, the model is a v2 model.

v2 model



v1 model



## Power on Display

Press the black lever button to view the digital display and current tool setting.

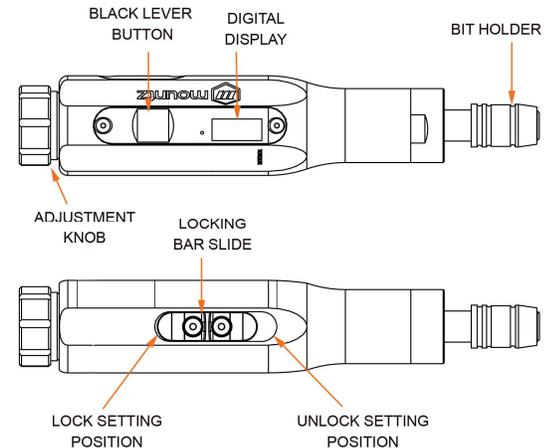
## Sleep Mode

When there is no activity of pressing the lever button or adjusting the setting, the display will timeout approximately within 20 seconds and then goes into Sleep mode. Press the black lever button to awake the tool from Sleep mode.

## Adjusting the Torque Setting

### Units of Measurement

Press the black lever button while the display is powered on to toggle through torque measurement unit options available for your FGA model.



FGA Models	Torque Measurement Units
FGA-8, FGA-20 & FGA-40	ozf.in, lbf.in, cN.m, N.m, kgf.cm
FGA-80	lbf.in, N.m, kgf.cm

### Torque Setting

Slide the locking bar slide mechanism to the unlock position. Use the black adjustment knob to change torque settings. Turn the knob clockwise to increase torque and counterclockwise to decrease torque. After selecting your torque value, release the locking bar slide, and it will return to its original position. **Per ISO:6789-1, when certified, the tool is adjusted from the bottom-up.**

**Note:** Do not adjust torque above or below the designated torque ranges for the torque screwdriver. If you exceed the upper torque range capacity of the screwdriver, the tool's screen will display the letter "H." If you exceed the lower torque range capacity of the screwdriver, the tool's screen will display the letter "L."



### Torque Setting Increments

The screwdriver's torque settings are selectable in increments.

#### FGA-8

Units	Increments
ozf.in	0.5
lbf.in	0.02
cN.m	0.5
N.m	0.005
kgf.cm	0.05

#### FGA-20

Units	Increments
ozf.in	1
lbf.in	(Settings < 5 lbf.in) 0.05 (Settings > 5 lbf.in) 0.1
cN.m	1
N.m	0.01
kgf.cm	0.1

#### FGA-40

Units	Increments
ozf.in	2.5
lbf.in	0.1
cN.m	2
N.m	0.02
kgf.cm	0.2

#### FGA-80

Units	Increments
ozf.in	-----
lbf.in	(Settings < 40 lbf.in) 0.5 (Settings > 40 lbf.in) 1.0
cN.m	-----
N.m	(Settings < 2 N.m) 0.02 (Settings > 2 N.m) 0.05
kgf.cm	(Settings < 45 kgf.cm) 0.5 (Settings > 45 kgf.cm) 1.0

### Applying Torque

1. Tighten the fastener or bolt by applying a steady twist. Keep the screwdriver in line with the axis of the bolt during tightening. The screwdriver will 'slip' after achieving the pre-set torque setting.
2. The screwdriver will automatically reset itself for the next application.
3. With its unique cam-over design, it's impossible to over-tighten beyond the pre-set load.

## Battery

When a low battery status is detected, the FGA will indicate it by displaying "bAt" on the screen. The battery needs to be replaced.

**Note:** The FGA doesn't have a battery status icon that displays the battery level status permanently. The low battery indicator will only display once the estimated battery life is <10%



## Battery Replacement

1. Use a 1.5mm hexagonal key to loosen the two screws and remove the battery cover.

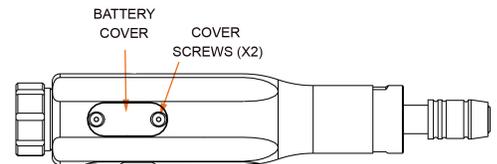
2. Remove the battery from the battery holder.

3. Insert a new battery.

Battery (CR1225) for FGA v2

Mountz Item # 982-000025

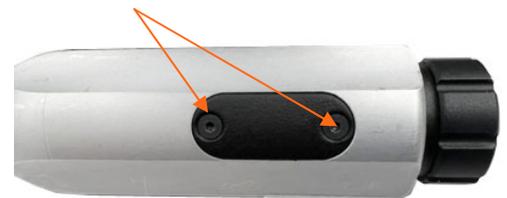
4. Install a battery cover.



Remove & insert battery



Remove screws



## Maintenance Schedule

Like an automobile, torque screwdrivers contain moving parts that require periodic servicing and lubrication.

## Expected Tool Life

With normal use – 1,000,000 operations

## Routine Maintenance

After 100,000 operations, strip, clean and re-grease the spring, bearings and internal components. Any worn components should be replaced.

**Note:** Any tool that is dismantled during its life must be re-lubricated in accordance with the Mountz recommendations. Do not clean tools by immersing them in a solvent, as this will destroy the internal lubrication and cause the failure of the tool.

## Period Between Recalibration

20,000 fastening operations. It is acknowledged that some tools may achieve 20,000 operations in a relatively short period of time. Under these circumstances, the user may decide to increase the period between calibration intervals with the benefit of their experience.

## Calibrating Torque Screwdrivers

Please view the FGA calibration instructions document.

## Warranty

Mountz FGA tools are the only cam-over drivers on the market to offer a two-year unlimited warranty. If it breaks in any way, we'll fix it or replace it for free.

Lifetime guarantee against manufacturing defects. We only make the highest quality products. This driver will not have a defect, we stake our quality reputation on it.

Warranty does not include battery replacement.

## Testing and Servicing

Torque tools go out of calibration with use. Calibrating a torque tool is a fine-tuning process of bringing the tool back within its tolerance. Regular torque calibration of a hand screwdriver ensures accuracy, repeatable tool performance, and adherence to international standards.

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.

## Mountz Calibration and Repair Services

Mountz Inc. features an experienced calibration and repair staff. Our trained technicians can calibrate and repair most any tool. Mountz provides rapid service with quality that you can trust as we offer three state-of-the-art calibration lab and repair facilities.

## About Mountz

Mountz, The Torque Tool Specialists<sup>®</sup>, has been a leader in the torque tool industry for more than 55 years. Engineered in the Silicon Valley and serving the globe, Mountz focuses on delivering high-quality torque products, services, and solutions to ensure customers can always proceed with confidence. We are committed to forging a safer world through precision and accuracy and by innovating every day.

## Important Environmental Disposal Notes



This equipment may contain hazardous materials which can be harmful to the environment.

Do not dispose of this equipment as municipal waste. Dispose of the equipment at a designated collection center.

Dispose of spent batteries and defective rechargeable batteries at a collection point.

### Mountz Service Locations

#### Eastern Service Center

19051 Underwood Rd.  
Foley, AL 36535  
Phone: (251) 943-4125  
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#### Western Service Center

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