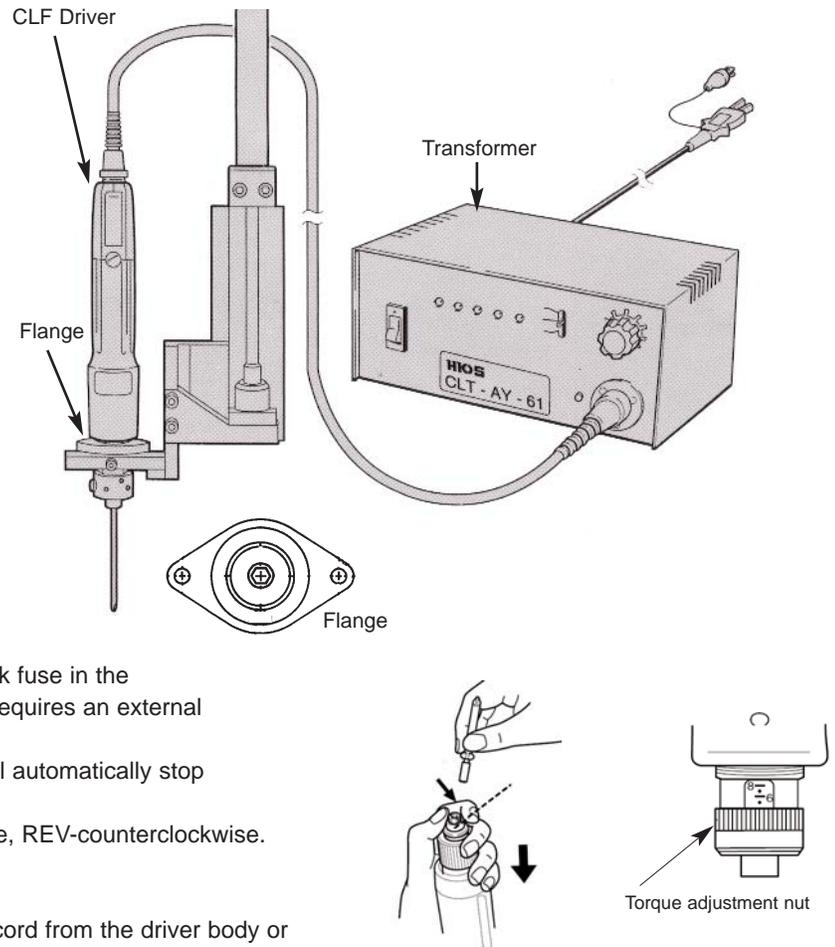


## CLF-Series Operating Instructions

Rev 2.6 (4/25/17)

### Operating the Tool

1. CLF-Series screwdrivers are designed for automated applications. Mount the CLF-Series driver using the flange base (if required).
2. Attach power tool cable to the CLF screwdriver and the CLT-AY transformer. Make sure notch in plug lines up with the notch on the socket. Tighten knurled ground ring.
3. Select a bit. Retract the bit collar. Insert the bit and release the retracted collar. To avoid damaging fasteners, make sure the proper bit is suitable for the head of the fastener.
4. Rotate the torque adjustment nut to set the torque limit. Turn clockwise to increase torque and counter clockwise to decrease torque. The scale adjacent to the Torque Adjustment Nut is a reference guide. The torque output from the driver can change depending on various fastening factors like friction, type of joint, and the type material being used like a washer. Verify torque setting with a torque testing system.
5. Integrate transformer into your robotic system. Plug in transformer and check power indicator. If it is not on, check fuse in the transformer. CLF drivers use the CLT-AY transformer that requires an external signal to activate the driver.
6. Activate external signal to run the CLF driver. The driver will automatically stop when the preset torque has been reached.
7. Turn driver on and check for proper rotation. FOR-clockwise, REV-counterclockwise.



### HOW TO REPLACE THE CARBON BRUSH

**WARNING:** When replacing the carbon brushes, detach the cord from the driver body or unplug the transformer from the power outlet.

1. The carbon brush piece is 1/3" long when new. Change the pair when they are worn to about half the original length.
2. Insert a flat tip screwdriver into the slot in the carbon brush cap and unscrew the cap.
3. Replace the worn brushes with new pair. The contact surface of the brush is concave. Insert the brush so that the concave end properly aligns with rounded surface of motor commutator.

### CARE

1. The CLF-Series screwdrivers are a precision torque control instrument and should be handled with care at all times.
2. Only use the transformers listed in the Mountz catalog for appropriate CLF driver model (If you have any questions regarding the appropriate transformer set-up, contact Mountz Customer Service Department).
3. Operate under safe conditions. Do not place in operation where such objects as hair, strings, clothing, etc. can become tangled in the rotating bit.
4. Keep away from moisture. Never use in high humid, moist or damp environment.

### Testing Power Tools:

1. Application Method: Use a torque tester in "Peak Mode" with a rotary torque sensor between the power tool and the actual application. This is the best way to test since you are using the actual joint as the test station. You will see the actual torque applied to the fastener.  
**Caution:** Variances in tool performance may occur do to the addition of the rotary torque sensor.
2. Simulated Method: Always use a quality joint rate simulator (run down adapter) with a torque tester when testing power tools in a simulated application. Use Joint rate and Breakaway methods to obtain most accurate torque readings in a simulated rundown.

## CLF-Series Operating Instructions

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### Accessories

The **EZ-Glider torque arms** are designed to improve production and quality control during the assembly process. The arms securely keep electric or pneumatic drivers in perpendicular alignment to help prevent side loading or cross threading occurring during the assembly process. The EZ-Glider helps remove the operator's influence in the assembly process and strengthens quality control.



The ergonomic design of the EZ-Glider torque arms reduces RMI (repetitive motion injury) and CTS (carpal tunnel syndrome). The effortless handling of the torque arm provides comfortable tool operation and increased production. The torque arm can be installed in space-restricted areas



**Screw presenters** are small, tabletop devices used to organize and automate work areas and production cells. Screw presenters make assemblers and the assembly process more efficient by mechanically presenting a screw to a fixed pick up point. The inexpensive screw presenter is an alternative tool instead of the cumbersome and very expensive screwfeeder systems.

**Vacuum adapter** kits can be mounted on an electric screwdriver. The screwdriver is fitted with a suction head that holds the screw on the bit, enabling the operator to pick it up with the tool itself. This is an effective, time saving device that works with most fasteners.

- Accepts different size screws and various length fasteners.
- Allows quick-change set-up at a low cost.
- Mounts with threaded torque nut. The driver remains externally adjustable while allowing semi-automatic pickup of non-ferrous fasteners.
- Plug driver into vacuum supply or chose the Vacuum Ejector.
- Mouthpiece and bit purchased separately.



### Mountz Calibration & 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 two state-of-the-art calibration lab and repair facilities that can calibrate up to 20,000 lbf.ft.

Since 1965, Mountz's in-depth knowledge of torque is reflected in our tool's craftsmanship and our ability to provide solutions to both common and uncommon torque applications. We perform calibrations in accordance with ANSI/NCSL-Z540. Mountz is dedicated solely to the manufacturing, marketing and servicing of high quality torque tools.

### Tool Service & Repair Capability

- Torque Wrench Calibration: Click Wrench, Dial Torque Wrench, Beam Wrench, Cam-Over & Break-Over Wrench
- Torque Screwdrivers: Dial, Micrometer, Preset & Adjustable
- Torque Analyzers/Sensors: All brands
- Electric Screwdrivers: All brands
- Air Tools: All brands  
Impact Wrenches, Drills, Pulse Tools, Grinders, Percussive Tools, Air Screwdrivers, Nutrunners, DC Controlled Nutrunners
- Torque Multipliers: All brands

### 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

[www.mountztorque.com](http://www.mountztorque.com)  
[sales@mountztorque.com](mailto:sales@mountztorque.com)



Twitter: @mountztorque

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

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