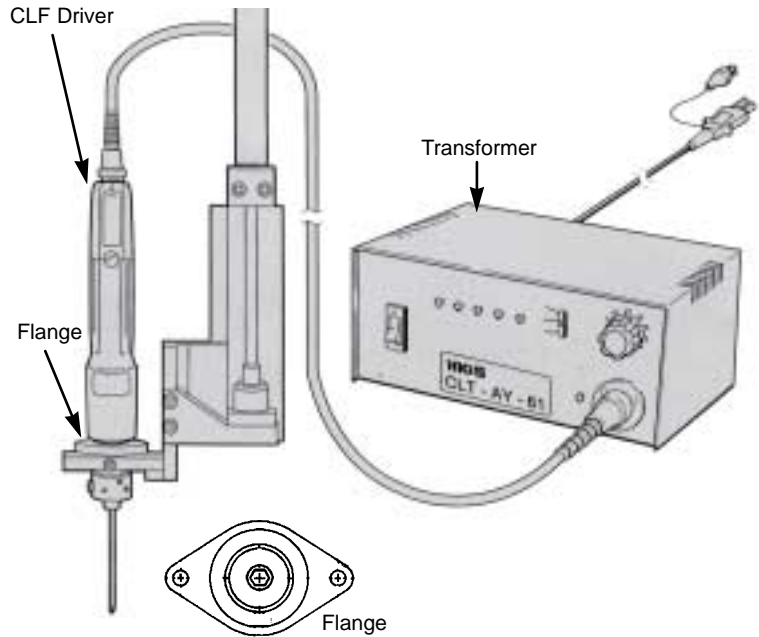


## CLF-Series Operating Instructions

Rev 1.0

### 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 cord to the CLF Driver. Make sure notch in plug lines up with the notch on the socket. Tighten knurled ground ring. Attach cord to a CLT-AY transformer (Transformer required to operate the tool). 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.
5. Intergrate 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 comutator.

### 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 analyzer in "Peak Mode" with a rotary transducer 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 transducer.
2. Simulated Method: Always use a quality joint rate simulator (run down adapter) with a torque analyzer when testing power tools in a simulated application. Use Joint rate and Breakaway methods to obtain most accurate torque readings in a simulated rundown.