

EF-Series (EF080, EF120 & EF180) Operating Instructions

Rev 3.1 (4/25/17)



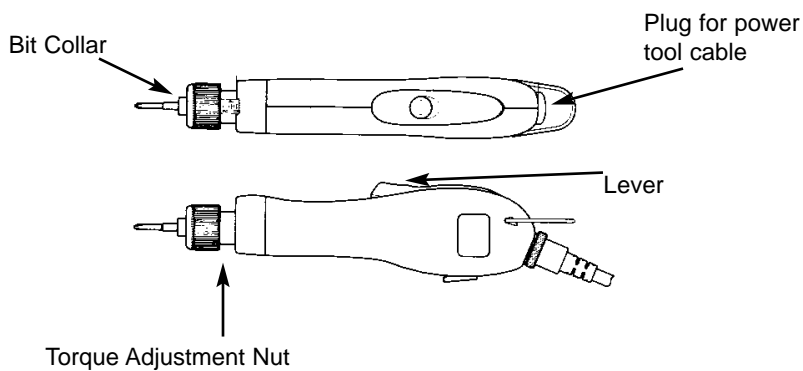
RoHS

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EF-Series (EF080, EF120 & EF180) Operating Instructions



Torque Cover
(EF080, EF120 & EF180 models only)
Item # 145700
Protects the EF-Series from incidental or operator tampering of torque setting.



Operating the Tool

1. Attach power tool cable to the EF screwdriver and the transformer. Make sure notch in plug lines up with the notch on the socket. Tighten knurled ground ring.
2. Plug in power cord to the back of the transformer and power outlet. Flip power switch to "ON" position located on the back of transformer.
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. The torque limit is determined by the tension of the coil spring housed in the torque adjustment nut. The tighter the coil spring is wound the higher the torque limit is raised. See Torque Charts on page 3 to determine the appropriate torque adjustment setting.
5. 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.
6. Turn driver on and check for proper rotation. FOR-clockwise, REV-counterclockwise.
7. To apply torque, squeeze the lever (Push-to-Start models - place light downward pressure on the nose of the driver). The driver will automatically stop when the preset torque has been reached.
8. To remove the screw, turn the FOR/REV switch to REV position.

CARE

1. The EF-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 EF 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.

HOW TO REPLACE THE CARBON BRUSH

WARNING: When replacing the carbon brushes, detach the power tool cable from the EF screwdriver 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.

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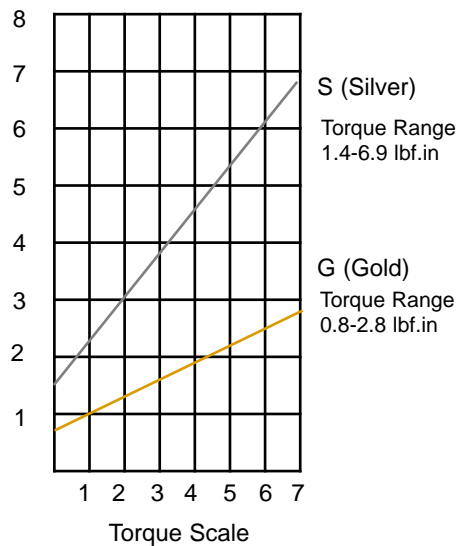
Torque Reference Charts

These charts are meant to be used as guidelines for setting the torque on the EF-Series electric screwdrivers. The drivers have a torque scale on the torque adjustment nut showing reference numbers. These numbers determine the approximate torque setting. Refer to the charts to determine the reference number setting for your torque requirement.

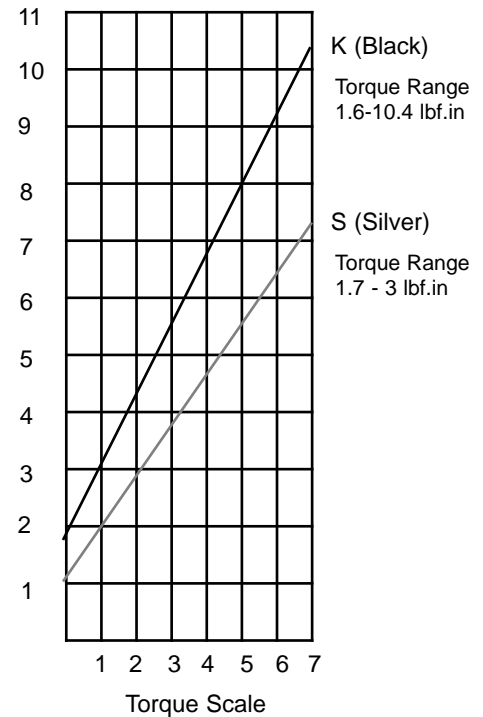
How to Read the Torque Charts

Torque ranges (lbf.in) approximate tightening torque, operated with no load at maximum speed. Verify torque setting with a torque testing system.

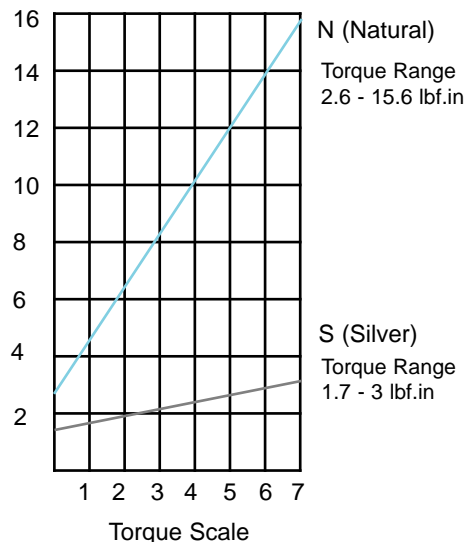
lbf.in EF080 & EF080P



lbf.in EF120 & EF120P



lbf.in EF180 & EF180P





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Maintenance Intervals:

The number of cycle shown on the table below should be used as a guideline for effective maintenance in order to reduce unexpected down time. Maintenance intervals may be determined by the several approaches: number of cycles in use, number of hours in use, type of joint, torque and calender time. All these factors should be considered for the best preventative maintenance. The following inspection and replacement intervals will vary depending on tightening load and cycle-on time.

Parts Descriptions	Inspection	Replacement
1. Carbon Brush	200,000 cycle	500,000 cycle
2. Motor	1,000,000 cycle	2,000,000 cycle
3. F/R Switch	1,000,000 cycle	2,000,000 cycle
4. Gear Case	1,000,000 cycle	3,000,000 cycle
5. Clutch	1,000,000 cycle	3,000,000 cycle
6. Cable	400,000 cycle	1,000,000 cycle

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 fastening joint 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.

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.

Mountz, The Torque Tool Specialists®, has been a leader in the torque tool industry for more than 50 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.

Tool Service & Repair Capability

Torque Wrenches: Click, Dial, Beam, Cam-Over & Break-Over

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
sales@mountztorque.com