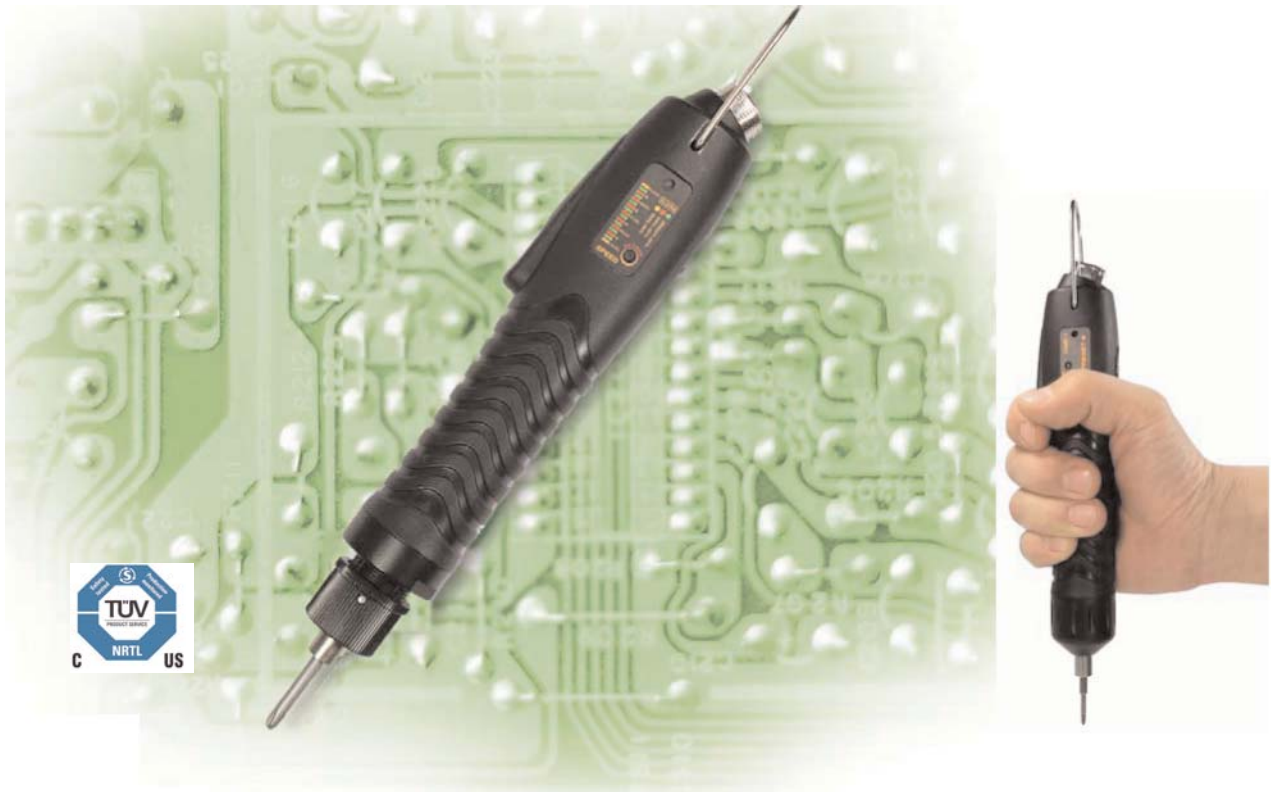


BF-Series (Mini Electric Screwdrivers BF035 & BF045) Operation Instructions

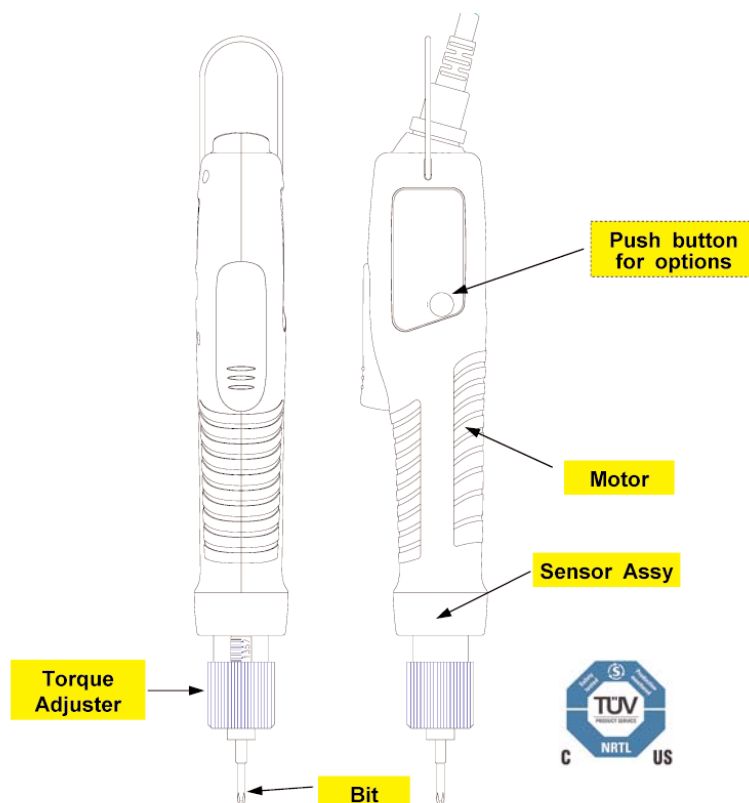
Rev 1
8.30.10



BF-Series (Mini Electric Screwdrivers BF035 & BF045) Operation Instructions

Introduction

- Various models that range from 0.17 - 3.9 lbf.in
- High performance brushless motor design provides durability and reduces the standard maintenance costs for electric screwdrivers.
- Designed for high production environments. Minimal heat build-up even when tool is operated continuously.
- Over Heat Protection (OHP) and Over Current Protection (OCP) protect driver from damage or malfunction. Features a LED display that signals the tool status for the operator to view.
- Can be connected with the Scout Screw Counter.
- External torque adjustment scale.
- Requires transformer (power supply).
- All models are ESD designed and prevent the occurrence of electrostatic discharge, which improves production yields, manufacturing costs, product quality, product reliability, reputation and profitability.
- Precision "Soft-Stop" clutch prevents shock to sensitive assemblies like disk drives, plastics, electronics, etc.





BF-Series (Mini Electric Screwdrivers BF035 & BF045) Operation Instructions

General Operation for BF-Series models

1. Attach cord to the BF Driver. Make sure notch in plug lines up with the notch on the socket. Tighten knurled ground ring.
2. Plug in transformer and check power indicator. If it is not on, check fuse in the transformer.
3. Attach cord to the transformer (Transformer required to operate the tool). Make sure notch in plug lines up with the notch on the socket. Tighten knurled ground ring.
4. 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.
5. 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 Chart on page 6 to determine the appropriate torque adjustment setting.
6. 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.
7. Turn driver on and check for proper rotation. FOR-clockwise, REV-counterclockwise.
8. 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.
9. To remove the screw, turn the FOR/REV switch to REV

For operating the "Speed Control" model see page 4.

Over Heat Protection (OHP) and Over Current Protection (OCP) Settings.

The BF drivers offer Over Heat Protection (OHP) and Over Current Protection (OCP) to protect the driver from damage or malfunction. Features a LED display that signals the tool status for the operator. It's located on the side. Below is the LED display indicator for reference.

Self Protection and LED display sign

no	Alarm	LED display sign	Reset
1	Over Voltage (over 32VDC)	● GREEN Intermitten light by 0.5sec	Auto reset lower than 32V
2	Overload (over 1.5A/0.5 sec)	● RED Intermitten light by 0.5sec	Auto reset after 5 sec.
3	Over heat (over 80°C on motor)	● YELLOW Intermitten light by 0.5sec	Auto reset lower than 80°C
4	Driver LOCK (by pin#6 signal)	● YELLOW Continuous light on	Reset by signal OFF

BF-Series (Mini Electric Screwdrivers BF035 & BF045) Operation Instructions

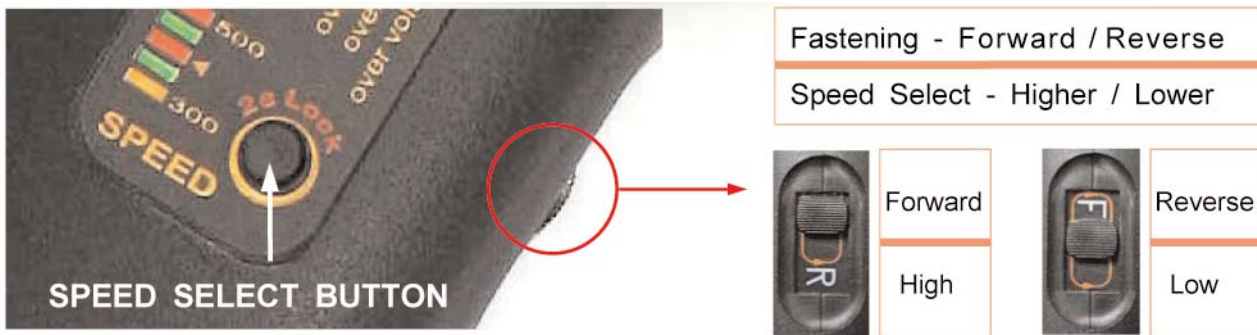
RPM Settings

The BF035 and BF045 models feature adjustable RPM setting on the tool. The RPM are selectable in increments of 50RPMs.

Also features precision "Soft-Stop" clutch, which prevents shock to sensitive assemblies like disk drives, plastics, electronics, etc.

Adjusting the RPM settings

- 1) Keep pressing the Lock button for 2 second to visit to PROGRAM mode. Then two LED lights will display the set speed.
- 2) Select "Reverse" of F/R switch for increasing speed. Or select "Forward" of F/R switch for increasing speed.
- 3) Press "Speed" button and select the target speed. The set speed can be recognized by the colors of two LED as below.
- 4) Keep pressing the Lock button for 2 second to go back to operating (work) mode.



Speed Control

Model	F045								F035								
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Button	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
RPM	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000	1050	1100
LED	Y	G	R	G	R	G	R	G	R	G	R	G	R	G	R	G	Y

LED	Status	Note
	Over Voltage	Blinks green & red - driver stops immediately as it's over DC32V. Automatically resets when it's below DC32V.
	Over Load	Blinks orange - driver stops immediately as it's over 2.5A. Automatically resets after 5 seconds.
	Over Heat	Blinks red - driver stops immediately as it's over 70°C. Automatically resets when it's below 70°C.
	Motor Drive	Green means motor is good.

BF-Series (Mini Electric Screwdrivers BF035 & BF045) Operation Instructions

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



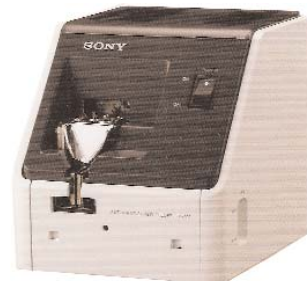
Torque Cover
 (BF035 & BF045 models only)
Item # 145773
 Protects from incidental or operator tampering of torque setting.



Scout screw counter helps manufacturers detect and eliminate costly screw-fastening errors during the assembly process. Using a screw counter is like putting the eyes and ears of a quality control manager where they are needed most - right on the assembly area. The scout is designed to detect cross threading, omissions, unfinished rundowns and cycle complete. The screw counter takes the control of the assembly process out of the operator's hands.

Item # 145790

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.



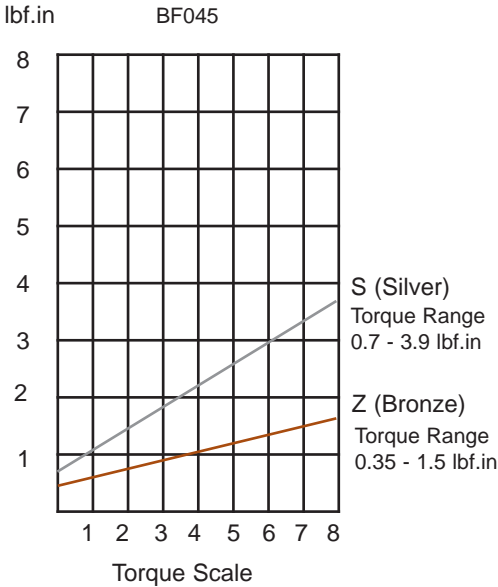
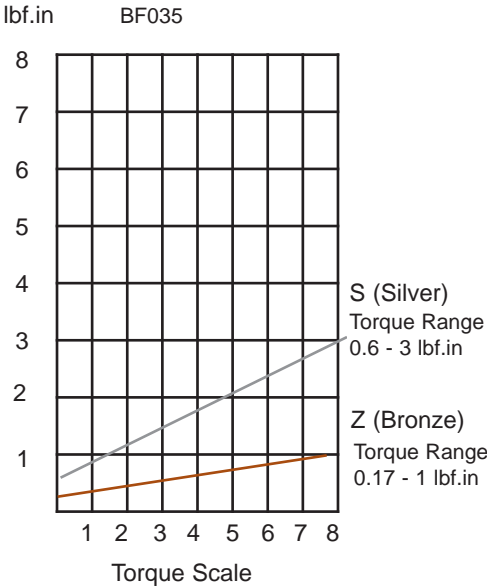
BF-Series (Mini Electric Screwdrivers BF035 & BF045) Operation Instructions

Torque Charts

These charts are meant to be used as guidelines for setting the torque on the BF-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. Figures below each chart indicate scale setting on the tool. Some drivers have more than one spring. Select the appropriate spring to achieve the desired torque setting.





BF-Series (Mini Electric Screwdrivers BF035 & BF045) Operation Instructions

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.

Care

1. The BF-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 or website for appropriate BF-Series 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.

Service

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 that can calibrate up to 20,000 lbf.ft.

With over 45 years of experience, 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 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

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San Jose, CA 95112
Phone: (408) 292-2214
Fax: (408) 292-2733

Mexico Service Center

Mountz Mexico SA de CV Chihuahua
Av. Cristobal Colon #15343
Col. Paseos de Chihuahua
Chihuahua, Chih. Mexico CP 31125
Phone: (614) 481-0023
Fax: (614) 481-0053

www.mountztorque.com

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

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