

F-Series Operating Instructions

Rev 1.0

Battery Removal/Installation

For F-9900 model

1. Installation - With the name-plate of the battery right-side up, push it into the screwdriver following the arrow until it snaps into place.
2. Removal - Grasp the black buttons on the back of the screwdriver to remove battery.

For F-9800, F-9500, F-9000, F-9000S model

1. Installation - Slide end-cover off. With the name-plate of the battery right-side up, push it into the screwdriver following the arrow until it snaps into place.
2. Removal - Slide end-cover off. Pull the battery by the hook.

For F-9001 (Battery Separate)

1. Installation - Put the battery in the solid case. Set the arrows of the battery and the solid case at the same direction. Close the lid of the solid case.
2. Removal - Unclasp the lid of the solid case. Pull the battery by the hook.

Charging Battery

1. Take the poly-cap lid off the charger.
2. Put the battery on the charger setting the arrows of the battery and the charger facing each other.
3. Plug the charger in.
4. A red lamp on the charger lights up during the charging.
5. When the charging is finished, the red lamp goes out. The charging time is 10 minutes to 1 hour depending on the remaining capacity of the battery.

Note: If you charge the battery immediately after using the screwdriver, the red lamp may shut-off before it should, because the heat from the battery. Charge the battery after cooling the screwdriver off.

6. Take the battery off after charging. Unplug charger. Put the poly-cap lid on the charger to avoid a short circuit caused by a foreign object.

Low Battery Voltage

Low voltage of the battery makes the controller insensitive. As a result, if the clutch functions, the motor does not stop and the clutch sounds continues. This indicates that the battery needs charging. Should this be the case, charge the battery, or exchange the battery for a spare battery.

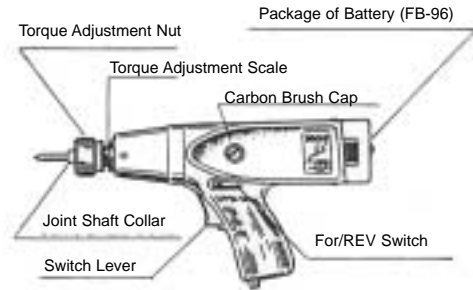
Attention

The battery that you purchased is recyclable. At the end of it's useful life, under various state and local laws, it may be illegal to dispose of this battery into municipal waste stream. Check with your local solid waste officials for details in your area for recycling options or proper disposal.

Spare Battery

A spare battery allows a standby battery at all times while one is charging and the other is being used.

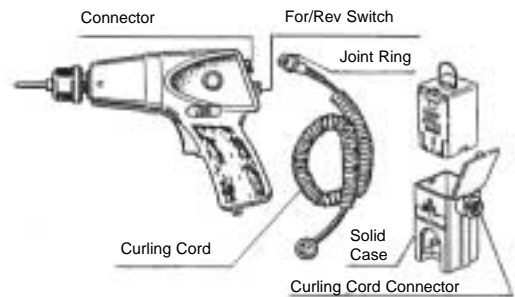
Battery	Item #	For Models
FB-72	144168	F9000S, F9000, F9001, F9500, F9800
FB-96	144671	F9900



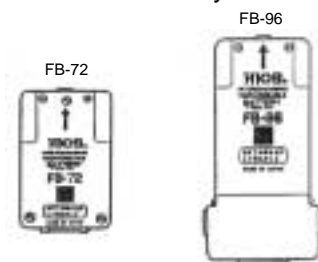
F9900 Model



F9800, F9500, F9000, F9000S Models



F9001 Model



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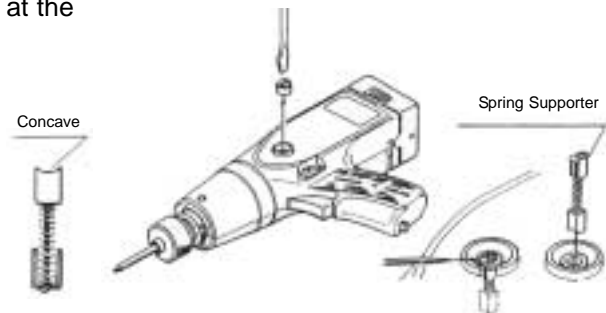
Operating the Tool

1. 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.
2. Place battery inside the driver (F-9001 Attach cord to the driver. Make sure notch in plug lines up with the notch on the socket. Tighten knurled ground ring. Then attached cord to the connector on the external battery case).
3. 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.
4. Turn driver on and check for proper rotation. FOR-clockwise, REV-counterclockwise.
5. To apply torque, squeeze the lever. The driver will automatically stop when the preset torque has been reached.
6. To remove the screw, turn the FOR/REV switch to REV. If the screw is tightened firmly, the clutch may idle but the power is not cut. As the clutch repeats idling, the screw loosens and it will go into reverse.

Replacing the Carbon Brush

We recommend that you replace worn carbon brushes early to keep up the efficiency on the screwdriver. We recommend that you exchange the carbon brush when it wears down to approximately 5mm (original size is approximately 10mm). Exchange both carbon brushes on the two sides of the screwdriver at the same time.

1. Take the slotted carbon brush caps off with a screwdriver.
2. Take the spring supporter off with a sharp-pointed tool to remove the carbon brushes.
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.
4. Replace the Carbon Brush Caps
5. Be careful not to tighten the Carbon Brush Cap too strongly.



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.

Accessories



Belt Holster
Item # 144330

Drill Chuck
Item # 144331



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