



# BSP824/828/829

## Cordless Pistol Screwdriver

### Operation Manual



**CAUTION** — Please read, understand, and follow all operating and safety instructions in this manual before using a BSP8 screwdriver.

**If you have any questions or concerns, please contact us at:**

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**⚠ Warning — Failure to understand and follow proper installation guidelines, safety requirements, and operating instructions may result in malfunction, component damage, property damage, shock hazard, fire hazard, injury or death.**

- Please read and understand the operation manual and follow all safety and operation instructions.
- Keep the work area clean and well lit to reduce risk of accidental injury.
- Use these products in a suitable dry, indoor location. Do not use the tools, batteries, and/or battery chargers in damp, wet, high temperature, or potentially explosive environments. Do not use in the presence of flammable liquids, gasses or dusts.
- Do not expose the tools, batteries, and/or battery chargers to areas subject to airborne contaminants (eg. dust, metal filings). Ensure that the battery charger has proper ventilation.
- Do not expose the tool, battery, or battery charger to oil, chemicals, or heat. Ensure that battery charger's power cord is routed and used in such a manner as to not be subject to sharp objects that may abrade or cut the cable.
- Keep others at a distance when operating unless they have been assigned to help in a particular operation.
- Remain alert when operating the device. Do not operate if you are tired or under the influence of drugs or alcohol.
- Store the device in a safe place when it is not in use.
- Do not overload the device or use it in applications that it was not intended for, such as drilling or tapping. The device is not recommended to use for loading force onto materials such as wood.
- Do not wear loose clothing or jewelry when operating the device.
- Always hold the device firmly before pressing the trigger.
- Make sure that the device and its battery are in operable condition, and have any damaged parts repaired by an authorized source. Keep the tool clean and replace the grease in the gearbox annually (under normal use) to prevent damage.
- Excessive duty cycle will cause the tool to overheat. If this occurs, discontinue use until cooled down and reduce cycle rate. As a general rule, do not exceed 10–15 fasteners/minute.
- Disconnect the battery from the device when it is not in use.
- Only use accessories detailed in these operating instructions with the device. Use of unauthorized accessories can increase the risk of personal injury to the operator.
- The device does not account for elastic or tensile load when washers are involved in the fastening process.
- Do not attempt to disassemble or repair the screwdriver, battery, or battery charger. Repairs should only be performed by qualified technicians properly trained in the safe operation, troubleshooting, and repair of these devices. Please consult Delta Regis for the location of the nearest service center.
- Use only a properly grounded electrical outlet of the correct supply voltage to power the battery charger. Ensure that the supply outlet is overload protected and of sufficient amperage capacity.
- Use only the correct plug for the battery charger. Hold the plug of the power cord when connecting or disconnecting. Do not pull on the cable.
- Unplug the battery charger if it is not being used on a regular basis.
- Locate the battery charger in a suitable, safe location on a steady surface. Do not place in a high location where there may be a risk of it falling. Secure the battery charger in position to prevent possible movement caused by pulling on the power cord.
- Do not cover the battery charger or stack any objects on top of or near the battery charger. Ensure that adequate clearance and ventilation are provided around the perimeter of the battery charger.
- In the event that the battery charger is overloaded beyond the maximum current rating, an internal fuse will disrupt power. Should the battery charger stop functioning, or exhibit abnormal or intermittent operation, discontinue use immediately and send the battery charger to an authorized service center for troubleshooting and repair.
- Use only the factory specified Delta Regis brand replacement parts and accessories with these tools.
- And damage to the tool, battery, and/or battery charger resulting from misuse, abuse, or failure to follow these guidelines will void the limited product warranty.

**Grounding — The battery charger is equipped with a 3-prong electrical receptacle/plug with ground pin. The charger must be connected to a properly grounded AC electrical outlet. Do not attempt to use this charger without a properly functioning ground connection. Never connect a live circuit to the ground pin or internal yellow-green ground wire.**



Read Manual



Caution



Recyclable



Indoor Use Only



Keep Away From Humidity



Keep Away From Fire



Do Not Disassemble



Do Not Dispose

## Contents

- Cordless inline screwdriver (1)
- Accessory kit (1)
  - Torque lock sleeve (1)
  - Waist hook (1)
  - Phillips power bits (2)
- Operation manual (1)

## Specifications

Cordless Inline Screwdriver				
Model		BSP824	BSP828	BSP829
Input Voltage		10.8 VDC		
Torque (Nm)		0.5-2.0	0.8-3.0	1.5-4.5
Torque Accuracy		±3%		
Torque Adjustment		Stepless		
Duty Cycle		1.0s ON 3.0s OFF		
Unloaded Speed (RPM ±10%)	HI	2700	1400	800
	LO	1900	1000	550
Weight (w/o battery)		0.7 kg (1.5 lbs)		
Dimensions ( L x H w/o battery)		118.5 x 156.5 mm (7.4 x 6.2 in)		
Applicable Battery		ESB-10VL2500		
Applicable Battery Charging Station		ESB-CHG50		
Output Shaft Type		1/4" Hex		

## Protection Functions

- Over-current protection
- Temperature protection
- Battery ID recognition
- Low power prevention
- Stall protection
- Sleep mode

## Tool Overview



## Quick Set-Up and Operation Overview

1. Fully charge the battery using the battery charger before first use to achieve maximum fastening cycles. Slide the battery into the end of the screwdriver.
2. Ensure that the screwdriver's FWD/REV switch is 'OFF' (central position). While the switch is in this position, the tool's speed can be toggled between high and low by pressing and holding the trigger switch for 5 seconds. The tool will beep to confirm that the speed has been changed. The bottom indicator light will turn blue when the tool is set to low speed. It is not recommended to use the low speed setting when the shutoff torque is set above half of the tool's maximum torque. Doing so could result in improper rundowns. The low speed setting does not affect how the tool operates when running in reverse.
3. Install a bit into the tool's hex drive. Pull the bit holder forward to insert the bit.
4. Switch the FWD/REV switch to select the desired direction of rotation.
5. Align the bit properly over the head of the fastener. Keeping the driver in-line with the fastener, press and hold the start trigger — the screwdriver will install the fastener (FWD). When the preset torque is reached, the clutch will activate and the tool will shut-off. Once the tool shuts off, release the trigger to reset. To stop the screwdriver before the fastening is complete, release the start trigger.
6. To remove a fastener, change the FWD/REV switch to the REV position. Push the start trigger to run the driver in reverse (CCW). Do not change the position of the FWD/REV switch while the tool is running.
7. Always reset the FWD/REV switch to the central position when the tool is not in use.

## Torque Adjustment

The screwdriver's torque setting can be adjusted by rotating the torque adjusting nut on the front of the tool. Turning the nut clockwise increases the shutoff torque of the tool, while counterclockwise rotation decreases the torque. Do not turn the torque nut below 0 or above 8 as indicated on the tool.

Attaching the torque lock sleeve to the tool impedes access to the adjustment ring to prevent accidental tampering. The lock sleeve replaces the housing nut near the front of the tool, so the nut must be unscrewed before the lock sleeve can be installed. This nut is screwed on with a left-handed thread, so it must be spun clockwise to remove, and the lock sleeve must be turned counterclockwise to install.



## Indicators

There are two indicator lights on the BSP8 screwdrivers.

The light nearer to the back of the tool [1] indicates the rundown status. When the tool stops running, it will light up green if the target torque was hit and the clutch deactivated the tool, indicating a good rundown. If the tool stops for any other reason, it will light up red to indicate an improper rundown.

The other light [2] indicates speed setting and battery status. If the tool is set for low speed, it will light up blue. If the battery is running low, it will light up red when the trigger is pressed.



Situation	Top Indicator Light [1]	Audible Beeps
Default	Off	None
Screw reaches set torque, clutch activates	Green	1 Short
Trigger released before screw reaches set torque	Red	1 Short
Motor stalls, screw cannot reach set torque	Red (3 flashes)	3 Short
Current protection activates	Red (6 flashes)	6 Short
Temperature protection activates	Red (9 flashes)	9 Short

Situation	Bottom Indicator Light [2]	Audible Beeps
Default / idle for more than 5 seconds	Off	None
Screwdriver is set to low speed	Blue	None
Tool in neutral + trigger held (toggling speed)	Blue (flashing)	1 Short when done
Battery is low + trigger is pressed	Red (flashing)	2 Short, 1 Long

## Parts and Accessories

If you require parts or accessories for your Delta Regis product, please refer to our website or contact us for further information.

## Service

This device is not user serviceable. Any repairs must be performed by a Delta Regis authorized service center. Please consult Delta Regis Tools for further information and the location of the nearest authorized service center. Repairs to this device must be performed by trained personnel, knowledgeable and qualified in the repair of such devices. Use only genuine Delta Regis parts when servicing these products. **Do not attempt to modify the tools, batteries, or battery chargers.**

## Warranty

The BSP8 Series cordless tools, batteries, and battery chargers are warranted for one year from the date of purchase against defects in material and workmanship. In addition, the brushless motor in the BSP8 Series cordless tool is warranted for three years from the date of purchase against defects in material and workmanship. This warranty does not cover damage due to transportation, abuse, misuse, or improper service. Our sole remedy is to repair or replace (at our discretion) any unit found to be defective due to defects in material or workmanship. It is the responsibility of the user to return any product thought to be defective, freight prepaid, to our warehouse for inspection and evaluation.

There is no warranty of merchantability or fitness of purpose. In no event will Delta Regis Tools, Inc. be liable for business interruptions, loss of profits, harm, injury, damage, personal injury, cost of delay, or any other special, indirect, incidental, or consequential losses, costs, or damages.