



CESPT824/828/829/830 Pistol Grip Screwdriver Operation Manual



CAUTION — Please read, understand, and follow all operating and safety instructions in this manual before using a CESPT 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.
- Use these products in a suitable dry, indoor location. Do not use the tools and controllers in damp, wet, or high temperature environments. Do not use in the presence of flammable liquids or gasses.
- Ensure that the controller has proper ventilation. Do not expose the tools to areas subject to airborne contaminants (eg. dust, metal filings).
- Use only a properly grounded electrical outlet of the correct supply voltage to power the screwdriver controller.
- Ensure that the supply outlet is overload protected and of sufficient amperage capacity.
- Use only the correct plug for the controller and outlet. Hold the plug of the power cord when connecting or disconnecting. Do not pull on the cable.
- Do not expose the cable, tool or controller to oil, chemicals, or heat. Ensure that the cable is routed and used in such a manner as to not be subject to sharp objects that may abrade or cut the cable.
- Locate the controller 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 controller in position to prevent possible movement caused by pulling on the power or tool cables.
- Do not cover the controller or stack any objects on top of or near the controller. Ensure that adequate clearance and ventilation is provided around the perimeter of the controller.
- Specific models of Delta Regis BECT series controller are designated for use with specific screwdrivers as specified on the following pages. Use of the controller (or screwdriver) with any other screwdriver (or controller) may result in malfunction, damage, or injury.
- In the event that the controller is overloaded beyond the maximum current rating, an internal fuse will disrupt power. Should the controller stop functioning, or exhibit abnormal or intermittent operation, please discontinue use immediately and send the controller to an authorized service centre for troubleshooting and repair.
- Excessive duty cycle will cause the tool and/or controller to overheat. If this occurs, discontinue use until cooled down and reduce cycle rate. As a general rule, do not exceed 10-15 screws/minute, one 8 hour shift per day.
- The screwdrivers incorporate a protection circuit which stops the electric screwdriver if the tool is switched from forward to reverse while running. Should this happen, the operator must release the tool trigger and restart the fastening cycle.
- Power the controller off and wait for 3 seconds before connecting/disconnecting the screwdriver tool cable to/from the controller.
- Turn the main power switch off when the controller is not being used. Unplug the controller if it is not being used on a regular basis.
- Do not attempt to disassemble or repair the screwdriver or controller. 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 depot.
- Use only the factory specified Delta Regis brand replacement parts and accessories with these tools and controllers.
- Any damage to the tool and/or controller resulting from misuse, abuse, or failure to follow these guidelines will void the limited product warranty.

Grounding — The controller (and AC power cord) is equipped with a 3-prong electrical receptacle/plug with ground pin. The controller must be connected to a properly grounded AC electrical outlet. Do not attempt to use this controller 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

- Pistol grip screwdriver (1)
- Coiled tool cable (1)
- Accessory kit (1)
 - Suspension bail (1)
 - Torque lock sleeve (1)
 - Phillips screwdriver bits (2)
- Operation manual (1)

Specifications

Pistol Grip Screwdriver									
Model		CESPT824	CESPT828	CESPT828F	CESPT828XF	CESPT829	CESPT829F	CESPT829LT	CESPT830
Input Voltage		40 VDC							
Torque Range	Nm	0.3-2	0.8-3	0.8-2.5	0.8-3.5	2-5	2-5	2.6-4	2.5-7
	in-lbs	2.6-17.7	7.1-26.6	7.1-22.1	7-31	17.7-44.3	17.7-44.3	23-35.4	22-62
Torque Accuracy		±5%							
Torque Adjustment		Stepless							
Unloaded Speed (RPM ±10%)	HI	1200	1200	2000	3300	700	1000	1700	850
	LO	-	-	-	-	-	-	-	-
Weight (kg)		0.7							
Dimensions (L x H)		185 mm x 150 mm							
Power Controller		BECT640(N)HL (standard), BECT840-SSO (count/verify), BECT940(N)HL, BECT940-SSO							
Bit Type		1/4" Hex							

Tool Overview



Before you turn on the controller

Insert the desired screwdriver bit into the quick change holder of the driver bit by pulling the outer sleeve of the bit holder to release the retainer. Insert an appropriate power bit, release the sleeve and ensure that the bit is properly locked in place by pulling back and forth on the bit.

Make sure that the tool's start trigger is not engaged to prevent the tool from accidentally starting when turning on the controller's power switch. Turn the controller's main power switch on. Select the desired speed (Hi/Lo) of the screwdriver via the speed switch on the controller.

Operating the screwdriver

Grip the screwdriver so that the index finger is comfortably over the trigger mechanism and the thumb can be used to change the position of the FWD/REV switch if required. Hold securely to prevent the screwdriver from rotating in your hand during use. Familiarize yourself with the operation of the tool by free running the tool before use at higher torque values.

Align the driver bit properly with the head of the fastener. Keeping the driver in-line with the fastener, activate 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 fastening is complete, release the trigger.

To remove a fastener, change the FWD/REV switch to the REV position. Press the start mechanism to run the driver in reverse (CCW). Do not switch the direction while the motor is running. A protection circuit will stop the tool if it is inadvertently switched while running — if this happens, the trigger must be released and reactivated to continue operating.

Setting the torque

An external torque adjustment nut located at the nose of the screwdriver is used to set the output torque of the screwdriver. A reference scale (0–8) is available as a guide — this scale is for reference only and does not indicate actual torque values. Rotate the torque nut clockwise to increase torque output, CCW to decrease torque output. Make the torque adjustment through a series of gradual increases, starting below the desired torque level. We recommend the use of an appropriate torque tester and static joint testing after installation to verify proper torque settings.

Once the torque is set, remove the housing nut and cover the torque adjustment nut with the included torque lock sleeve to avoid accidental torque adjustments.

The torque output of the screwdriver should be verified on a regular basis. Frequency of verification will depend on the customer's specific application and quality control requirements. During the initial screwdriver break-in period, output torque may decay somewhat as the mechanical components wear in.

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 or controllers.**

Warranty

The CESPT Series brushless screwdrivers are warranted for one year from the date of purchase against defects in material and workmanship. In addition, the brushless motor in the 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.