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Quick Start Instructions 1100-Series Exacta® 2 Digital Torque Wrench



S/R 1100-Series **Exacta® 2** Digital Torque Wrenches are designed to work with the Global 8, Global 8 - Ethernet, RFE and RFE - Ethernet controllers to provide torque application integration that extends from your shop control system all the way to the fastener. The details of programming the tool through each controller are found in the controller manual.

Safety

- Always wear appropriate personal safety equipment when operating this tool.
- Never use this tool for any purpose other than that for which it is intended.
- Never use the tool beyond its' rated torque capacity.

Caution

- When using this product with an S/R controller and radio communication is lost, the tool will retain the most recently-downloaded specifications until radio communication is re-established or alternate means are used to change the specifications.

Battery and Battery Charger Selection

The **Exacta® 2** digital torque wrench has very specific battery requirements that must be adhered to. Only batteries meeting these requirements may be used.

- Use of any batteries other than those provided by S/R or meeting the specifications on the Batteries page of our website (<http://www.srtorque.com/batteries.html>) may cause the tool to become inaccurate.
- Use of any batteries other than those provided by S/R or meeting the specifications on the Batteries page of our website (<http://www.srtorque.com/batteries.html>) may damage the tool.
- Use of any batteries other than those provided by S/R or meeting the specifications on the Batteries page of our website (<http://www.srtorque.com/batteries.html>) will void the warranty on the tool.
- Under no circumstances should alkaline batteries, rechargeable or disposable, be used in the tool.

The correct battery and charger pack (NAFTA countries only) for tools in the **Exacta® 2** digital torque wrench line is S/R part number 21259. This pack includes a 15-minute charger and four (4) AA NiMH 2200 mAh batteries.

The correct replacement battery pack (NAFTA countries only) for tools in the **Exacta® 2** digital torque wrench line is S/R part number 21258. This pack includes four (4) AA NiMH 2500 mAh batteries.

For countries outside NAFTA, consult the batteries page on our website (<http://www.srtorque.com/batteries.html>) to find the correct battery and battery charger for use in your country. Follow the manufacturer links provided and select the appropriate product for your country and need.

S/R Dovetail and Interchangeable Heads

Those models of the **Exacta® 2** digital torque wrench that are equipped with an S/R dovetail are designed to be used with S/R interchangeable heads. The dovetail design provides an exceptionally strong and rigid connection.

The **Exacta® 2** models with the dovetail are calibrated for use with S/R interchangeable heads having a 1 7/16" Common Centerline Length (CCL). Use of interchangeable heads with a different CCL or head extension(s) will make the tool inaccurate until and unless it is recalibrated with a head having the same CCL as that which has been selected for use. Always recalibrate the tool immediately if changing to a head with a different CCL or if a head extension is to be used.

Ratchets

Some **Exacta® 2** models have ratcheting square drives instead of the S/R dovetail. These are slide pin ratchets capable of being set to ratchet in either the clockwise (CW) or counter-clockwise (CCW) direction. To change the ratcheting direction, remove all torque load from the tool and push the slide pin to the opposite side from that to which it is currently biased.

The ratchet should be disassembled, cleaned and lubricated periodically. The procedure for performing this function can be found in the FAQ section of our website. See the Ratchet Replacement procedure (FAQ 7) and simply clean and replace the original parts instead of installing new parts. If the ratchet is damaged, contact your S/R distributor and order the correct ratchet renewal kit for your tool, then use the instructions on the website to perform the replacement.

Component Identification

1. Electronics Module

The electronics module houses and protects the circuit boards, display, operating buttons and other electronic components.



2. Display

The display conveys the visual information needed for use and generated by use.

3. Indicator Labels

These labels, working with indicators on the display, inform the user what mode or function is currently active.

4. Buttons

These buttons (Clear, Select, Up, Down) are used to access program functions and data on the display.

5. Grip

The grip is where the tool should be grasped when in use. The load point on the grip is marked by the plain ring in the center of the grip.

6. Battery Compartment Cover

The battery compartment cover protects the batteries and associated parts, and permits access for battery replacement.

7. Switch Cover
This rubber cover protects the power switch and the serial port.
8. Serial Port
This is a single-pin serial port for communications.
9. Power Switch
This switch enables and disables electric power from the batteries to the electronics.



10. Indicators
There are four triangular indicators in a line across the top of the display. These indicators are activated and deactivated to show what mode or operation is currently active on the tool. To the right of these is a battery icon (not activated in this photograph) used as a battery level (low battery power) indicator.

11. Unit of Measure Area
This area of the display shows the currently active unit of measure, both during use and during keyboard programming.

12. Data Record Area
This small four-digit display shows the currently-active data record in memory or, when programming, part of the function information required. When in radio contact, it displays "rAd".



13. Quality Attribute Area
There are several icons along the bottom of the display to the left of the Data Record area. These include "OK" and "BAD", which provide the attribute evaluation of the torque against the programmed specification when the tool is in use. They also include MAX and MIN
14. CCW Icon
The CCW icon illuminates when the torque is in the counter-clockwise direction.
15. Primary Display Area
The primary display area conveys differing information depending upon the current action of the tool. This may be numeric information such as torque values or alphabetic information such as is used in some programming and communication functions.
16. Rear Cover
The radio cover permits access to the electronics when repair is required; it should not be removed except for repair situations requiring its' removal.
17. Rear LED Lens
This lens illuminates with the color (Yellow-Orange/Green/Red) in the same manner as the display when the LED color system is in use. This permits the user to know the status of the tightening even when the tool is used in an orientation where the display is not immediately visible.
18. Buzzer
This buzzer provides an audible indication of the torque status to augment the visual indicators. When in use, the buzzer emits a single sound when power to the tool is enabled, a rapid series of beeps when the torque specification is attained and while within the specification. It will emit a single longer beep if the torque specification or torque capacity is exceeded.

Battery Installation

To install the batteries in the tool:

1. Move the power switch to the disabled (off) position.
2. Unscrew the battery cover from the rear of the grip.
3. Observe the two labels inside on the battery holder.
4. Install the batteries as shown on the labels and in the photograph here.
5. Reinstall the battery cover.



Starting Routine

To use the wrench slide the power switch to the Enabled or On position. The tool will begin an internal starting routine and the display will first show the version of the firmware that resides on the tool then display the model of the tool (tool capacity in foot-pounds).

Once the starting routine is complete, the tool will then show on the display the information for the status in which it was most recently set. This includes the mode of operation, unit of measure, current data record number and target torque setting.

If the tool has been associated with or learned by a controller, the lower right-hand corner of the display will have the characters “rad” active.

The Controller Association or Learning Process

Each of the controllers these tools can be used with has a different learning process, and the instructions for creating the association for each is slightly different. There are a couple of common elements in the process:

- The process will start with the tool power disabled (tool turned off)
- The controller will be placed into a “learning” mode or the tool transmitter serial number will be provided to the controller.
- At the point in the process where the actual association is to be created, the tool power will be enabled (power turned on).

During this process the controller and tool will establish the communication link, and the controller will notify the operator or programmer that the association has been made, usually through a sound or LED illumination. Once this process is complete, the options for tool programming through the controller and tool use with the controller are available.

Using the Tool Without a Controller

S/R 1100-Series **Exakta**® 2 Digital Torque Wrenches can be used without a controller when needed, but the operating characteristics are significantly different; the tool functions as a standard **Exakta**® 2 Digital Torque Wrench. Additional information on this is available on our website, along with calibration instructions and Exawin 5 software. All of these are available at no charge; simply register your tool(s) by following the links on the **Exakta**® 2 page and follow the instructions to download all of the available options.

Cleaning, Calibration and Repair

These tools should be cleaned periodically with a soft damp cloth to remove dirt.

Factory calibration (with certification from our ISO 17025 Accredited Laboratory) is available, as is factory repair if needed. Simply contact your S/R distributor, or contact us directly using the information on the first page of this document.