

# LITHIUM SERIES® II Electric Torque Tool

## Product Training Webinar

Kunal Rana



## ● Expanded Functionality

New TorcSense™ Technology  
New Snug function  
Bluetooth® Wireless technology  
Advanced Bolting Functions: Turn Angle, Torque Check, Rotations

## ● Greater Durability

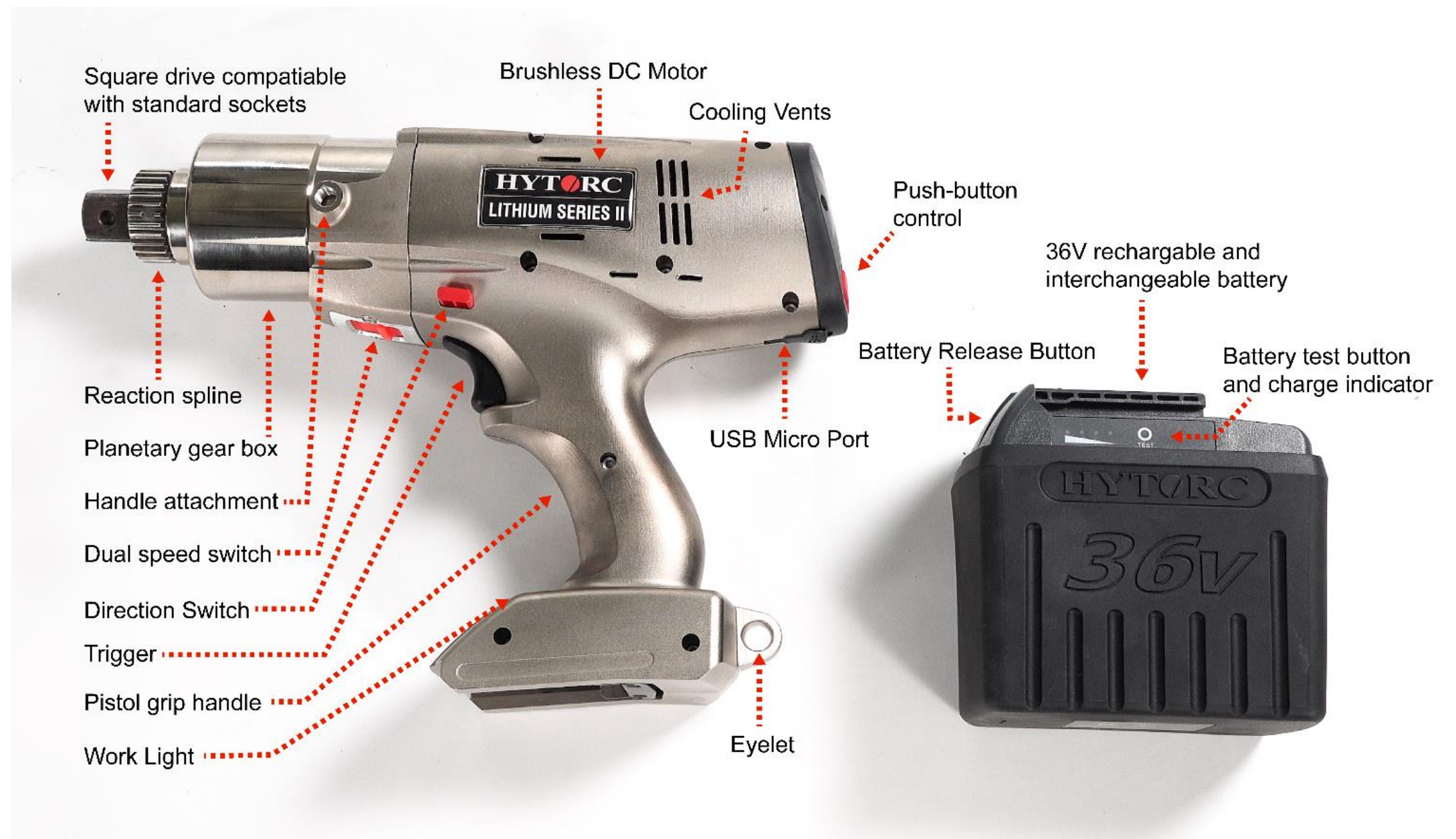
New 36V DC Brushless Motor  
New Gearboxes – 20% stronger  
New Aluminum handle  
New Rear Cover Shock Guard

## ● Improved Usability

New Intuitive Menus & Icons  
New Customizable Menu Capability  
New High Resolution Display,  
New Side Handle



# LITHIUM SERIES II TOOL OVERVIEW



Square drive compatible with standard sockets

Brushless DC Motor

Cooling Vents

Push-button control

36V rechargeable and interchangeable battery

Battery Release Button

Battery test button and charge indicator

Reaction spline

Planetary gear box

Handle attachment

Dual speed switch

Direction Switch

Trigger

Pistol grip handle

Work Light

USB Micro Port

Eyelet

# SIZES & MODELS

MODEL	SQ-DRIVE	Weight (Imperial)	Weight (Metric)	Torque Range (Imperial)	Torque Range (Metric)
LST-0700	3/4	11.7 lbs	5.3 kg	150-700 ft-lbs	203 - 949 Nm
LST-1200	3/4	12.0 lbs	5.4 kg	200-1200 ft-lbs	271 -1,627 Nm
LST-2000	1	16.6 lbs	7.5 kg	325-2,000 ft-lbs	440 - 2,711 Nm
LST-3000	1	17.7 lbs	8.0 kg	500-3,000 ft-lbs	677 - 4,067 Nm
LST-5000	1-1/2	22.4 lbs	10.2 kg	800-5,000 ft-lbs	1,085 - 6,779 Nm

- U are USB only, Bluetooth Disabled
- X are non ROHS compliant, sold in US and Canada



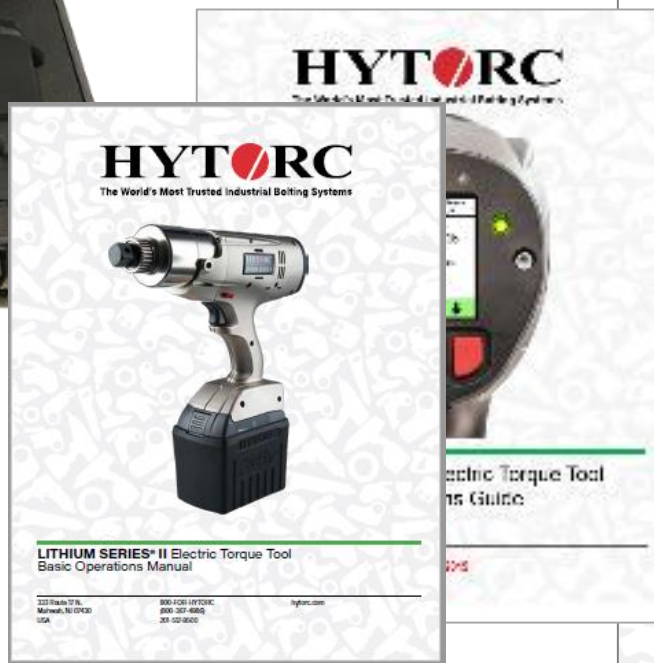
# UNBOXING

- Tool
- Calibration Certificate
- Tool Handle
- Reaction Arm
- (2) 36V Batteries
- Charger
- USB Cable
- Basic Operations Manual
- Icon Reference Guide



1. Chinese
2. Japanese
3. German
4. Italian
5. French
6. Spanish

## Icon Guide



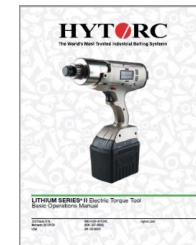
3. MAIN MENU		
BASIC BOLTING FUNCTIONS		
Icon	Label	Description
	<b>Torque</b> 1. 扭矩 2. トルク 3. Drehmoment 4. Coppia 5. Couple 6. Torque	<b>Torque</b> option returns the user to the home screen, allowing the user to adjust the torque value up and down as required for bolting applications.
	<b>Snug</b> 1. 预拧扭矩 2. 着座 3. Fuegen 4. Stretto 5. Ajustement serré 6. Ajustado	<b>Snug</b> function allows users to set a torque value at the lower end of the tool's capability in order to bring two structural surfaces into contact.
	<b>Angle</b> 1. 角度 2. 角度 3. Winkel 4. Angolo 5. Angle 6. Ángulo	<b>Angle</b> option allows users to scroll up or down to adjust the angle to the nearest degree. The angle selected on this screen is always applied in a "Torque and Angle" sequence within the same trigger event as the Torque.
	<b>Release</b> 1. 发布 2. 開放 3. Freidrehwinkel 4. Rilascio 5. Déblocage 6. Liberación	<b>Release</b> adjusts the tool release angle to take the tension off the motor following a torque operation allowing the tool to be released from the application.
	<b>Fastener</b> 1. 紧固件 2. ファスナー 3. Verbindungselement 4. Fissaggi di serraggio 5. Fixation 6. Sujetador	<b>Fastener</b> allows the selection of fastener type: Right Hand Nut, Left Hand Nut, HYTORC Washer Right Hand, HYTORC Washer Left Hand and HYTORC Nut.

## Inspect Tool and Calibration

- Check the certificate or label on the tool for the most recent calibration date
- HYTORC recommends all tools be tested and recalibrated periodically. More frequent calibration may be appropriate depending on local practice, usage and conditions.
- Customer/user is responsible for arranging testing and recalibration
- Contact 800-FOR-HYTORC for assistance or further information
- When not in use, store all tool components in the plastic storage case
- Save all instructions and calibration reports in the storage case



Check Calibration Date



Store Tool and instructions in case

## Environmental Considerations

- ❑ The tool should not be exposed to moisture. Do not operate in rain, snow or extreme humidity.
- ❑ The operating temperature range of the tool is -4°F (-20°C) to 140°F (60°C)
- ❑ Keep cooling vents clear of dust and debris to maintain airflow and keep the motor and electronics within temperature limits. Do not subject the tool to extreme dust environments, or cover vents with your hand.
- ❑ The tool and electronic components are not certified or approved for explosive environments or areas containing combustible chemical materials

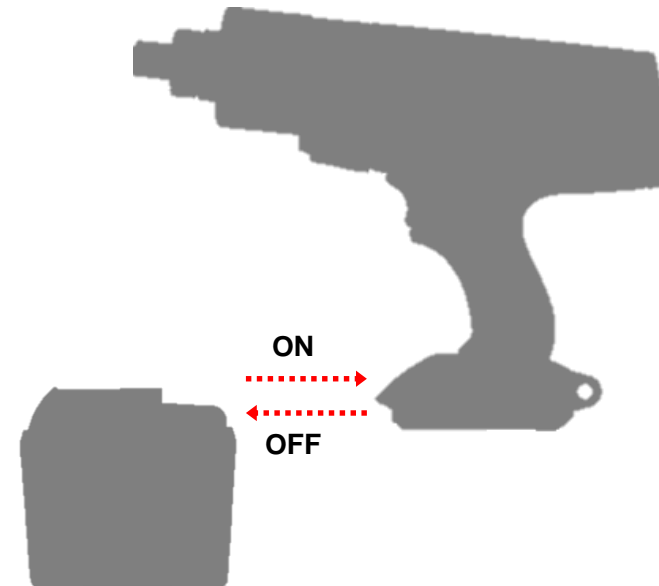
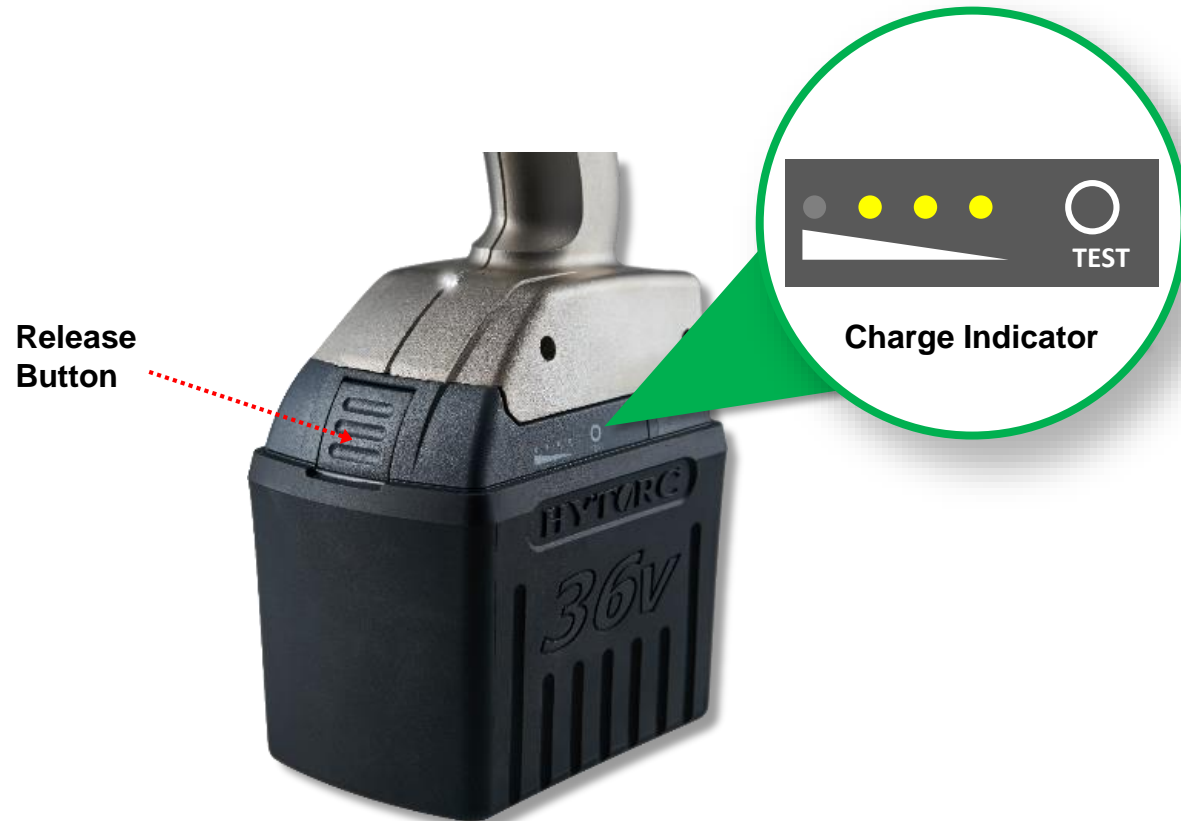


**Follow local practices or standards for securing the tool from dropping. The eyelet fits most standard lanyards.**

# TEST, CHARGE & INSTALL BATTERY

- ❑ Press TEST button on battery to display remaining charge
- ❑ Before charging battery verify local voltage supply to ensure capability with charger; this will typically be 110 or 220 Volts AC.
- ❑ Connect power cord to grounded outlet. If necessary, connect plug adapters for compatibility with local power outlets.

- ❑ Insert battery by sliding it onto the charger until it locks into place. The flashing green indicator light means the battery is charging.
- ❑ Battery will be fully charged within 90 minutes. The indicator light will stop flashing to indicate battery is fully charged.
- ❑ Remove battery by pressing release button and sliding it off the cradle. Slide battery onto bottom of the Tool until it firmly latches into place.





# CONFIGURATIONS

## Conventional



## HYTORC Washer



## HYTORC Nut

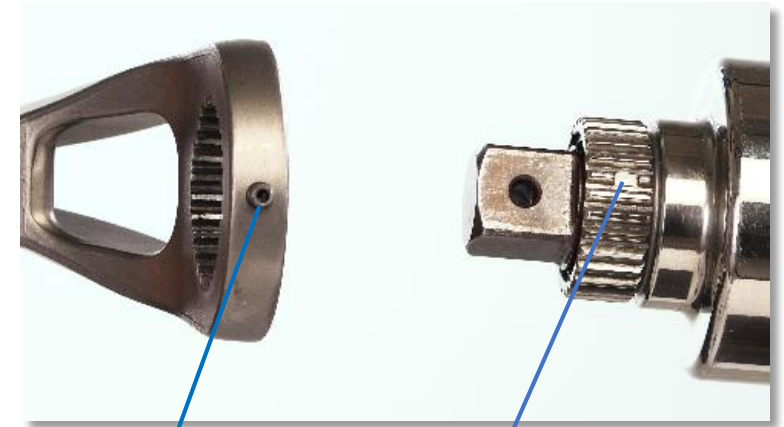


# INSTALL REACTION ARM

- ❑ Reaction arm used only for conventional bolting applications.
- ❑ Slide the reaction arm over the drive spline while aligning the Allen Set Screw with the flat on the Reaction Spline.
- ❑ Tighten Allen Set Screw to firmly attach the reaction arm to the spline.
- ❑ Challenge the reaction arm to make sure it is firmly secured.



**Caution: Never modify a reaction arm!  
Changes in the reaction arm may lead to  
personal injury or damage to the Tool.**



Allen Set Screw

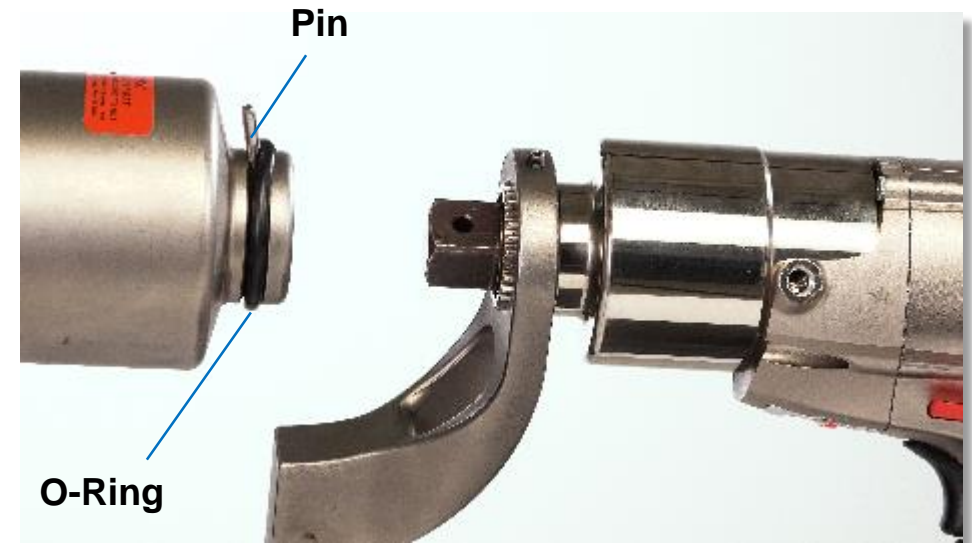
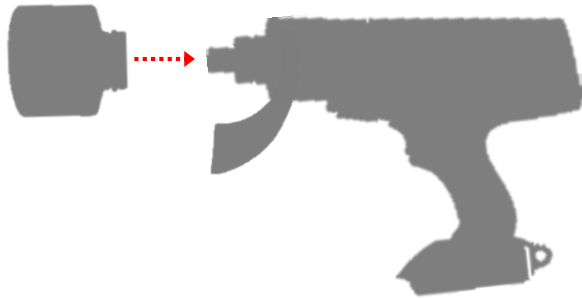
Flat on Reaction Spline



Tighten Screw

# INSTALL SOCKET

- ❑ Align socket pin hole with hole in the square drive.
- ❑ Make sure the O-ring is installed on the socket – insert the pin part way into the socket.
- ❑ Slide socket on square drive while aligning the pin hole in the socket with the hole in the square drive.
- ❑ Push the pin through socket and square drive and seat the pin flush against the socket.
- ❑ Slide O-ring in place to cover and hold pin in place.



# INSTALL HYTORC WASHER DRIVER

- ❑ Slide washer driver over square drive and spline while aligning thumb screw with flat on the spline.
- ❑ Tighten thumb screw to secure Washer Driver.
- ❑ Test to make sure that washer driver is securely attached to the spline.





# INSTALL HYTORC NUT DRIVER

- ❑ Slide nut driver over the square drive and spline while aligning the Allen screw with the flat on the spline.
- ❑ Tighten the Allen screw to secure Nut Driver.
- ❑ Test to make sure that nut driver is securely attached to the spline.



# INSTALL SIDE HANDLE

- ❑ The side handle screws into the bearing housing on either the right or left side of the tool.
- ❑ Engage threads and rotate clockwise until the handle no longer rotates.
- ❑ Hand tighten only.



# CONTROL SWITCHES

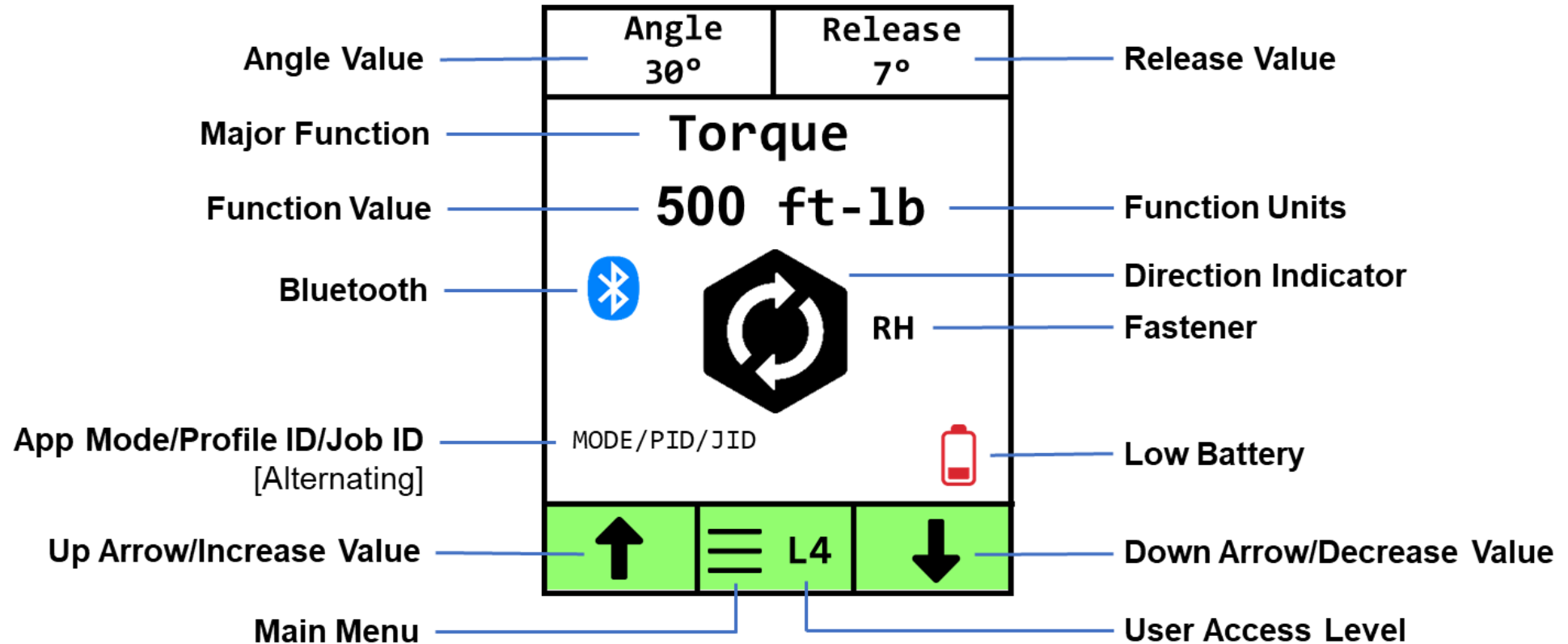
- ❑ Press any button to power on the Tool.
- ❑ Press the Trigger to Activate the Tool.
- ❑ Press the Direction Switch to reverse direction.
- ❑ Slide the Speed Switch to switch from low speed TORQUE to high speed RUN DOWN.

Direction Switch



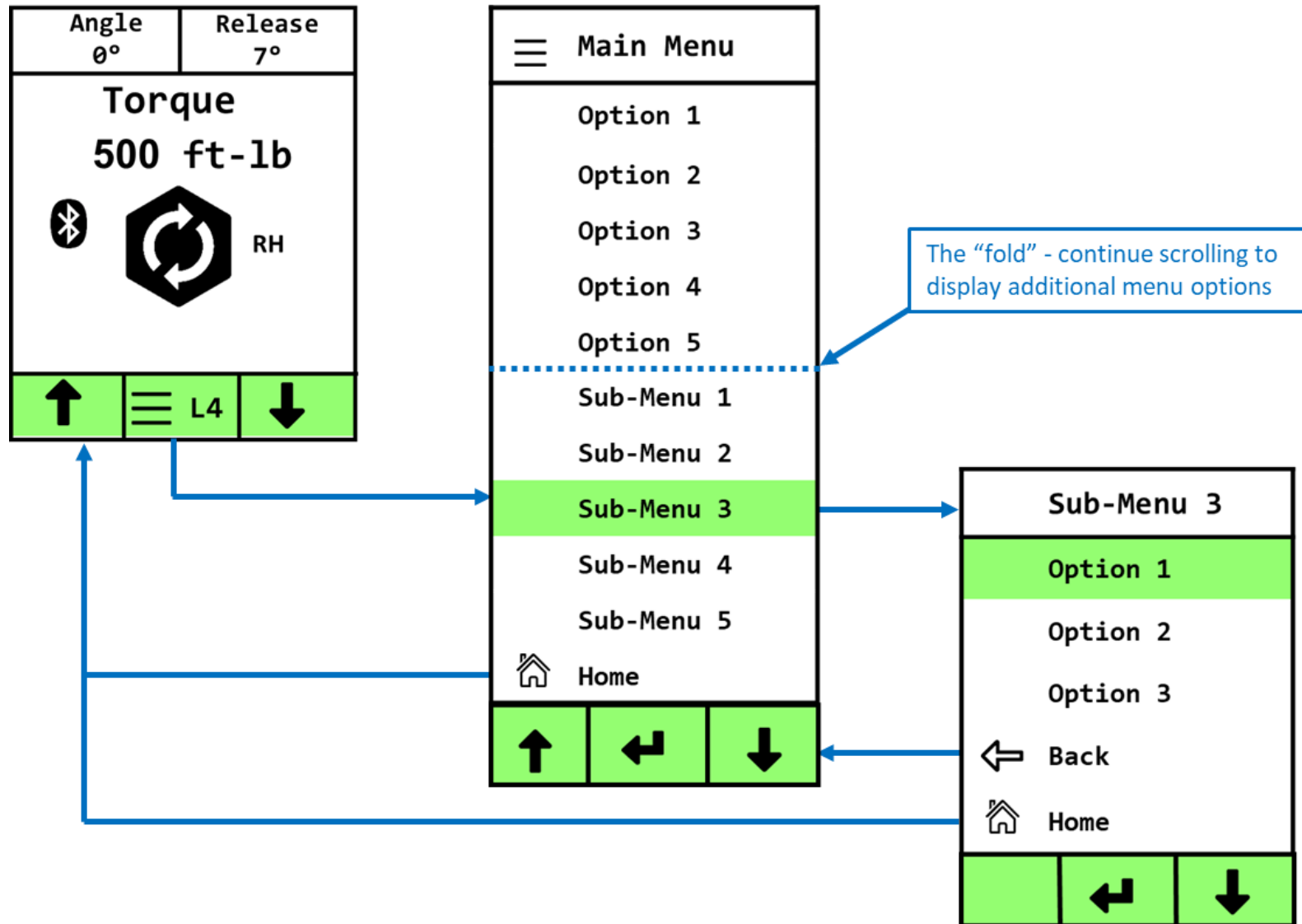
Speed Switch

# HOME SCREEN

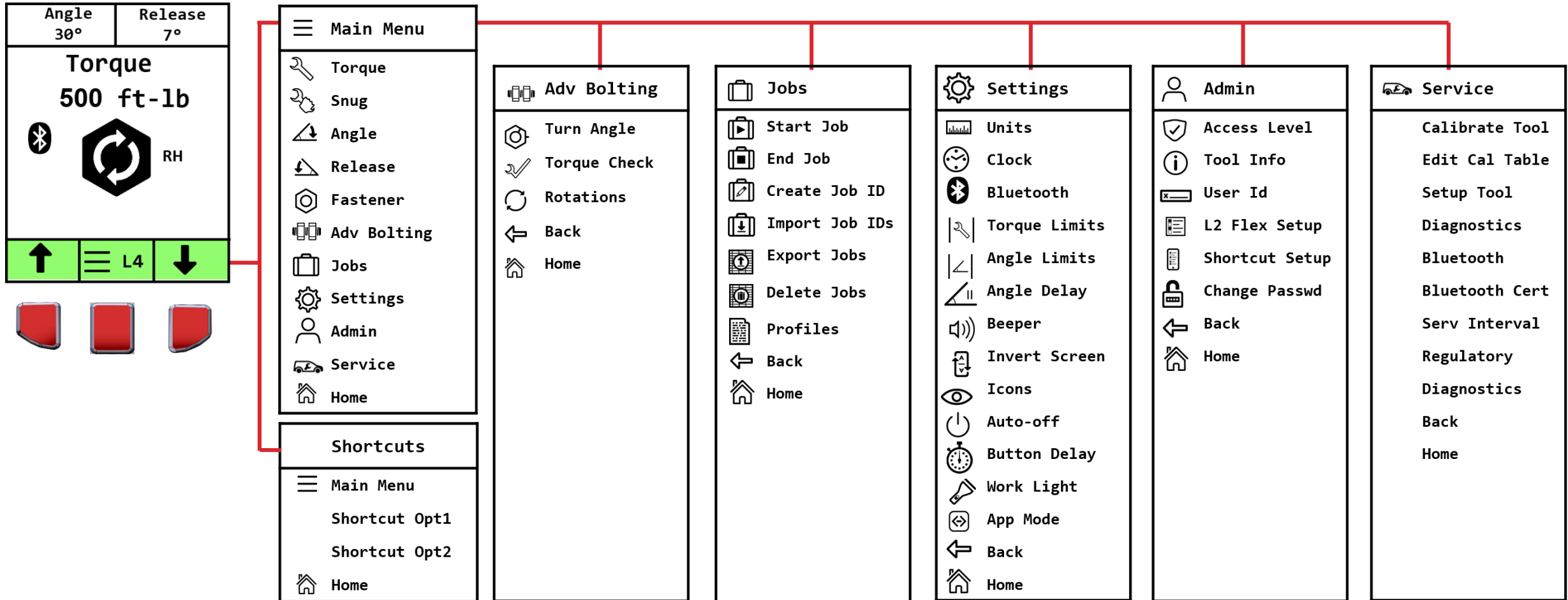




# MENU NAVIGATION



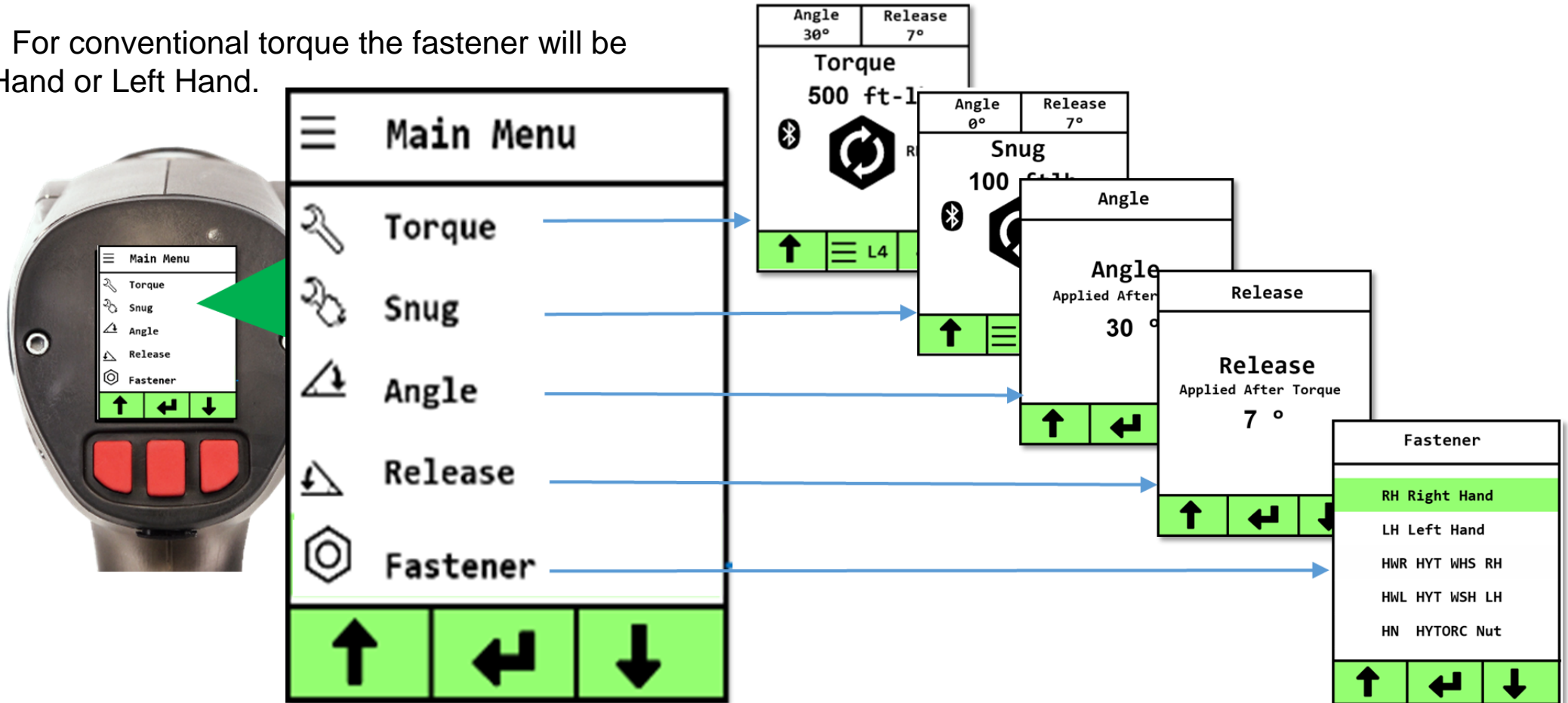
# USER INTERFACE



# BASIC BOLTING

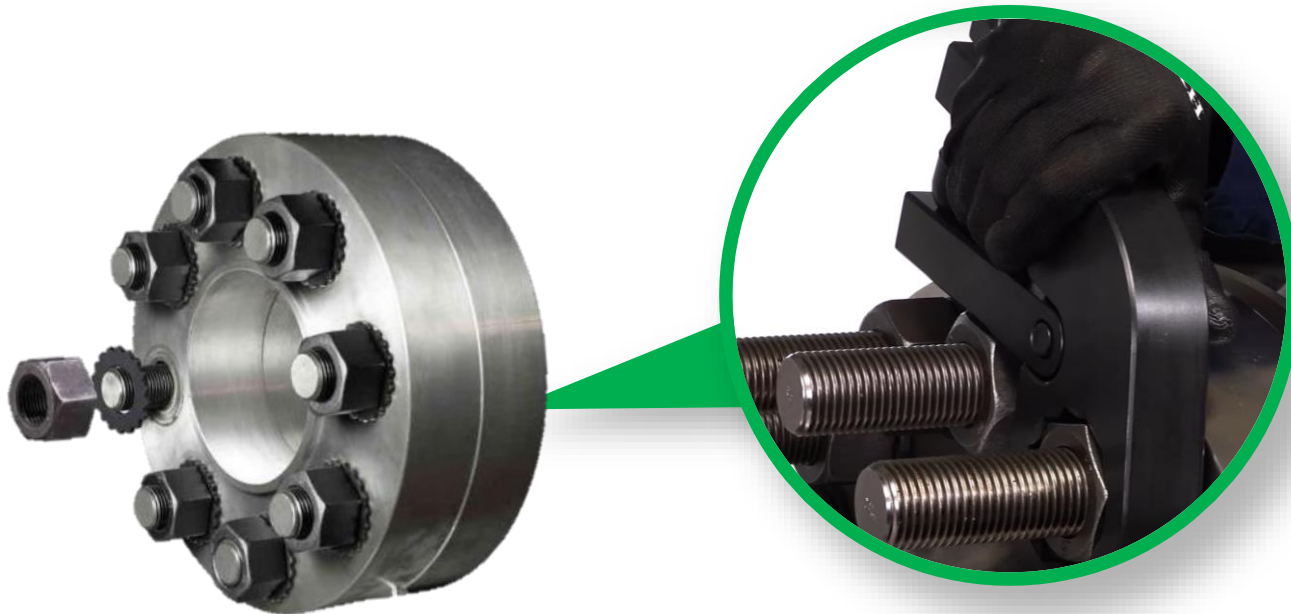
- ❑ Basic bolting options are located at the top of the Main Menu.
- ❑ Specify the desired **Torque** and **Fastener** type using the ↓ and ↑ buttons. Enter values for **Angle** and **Release**, if desired.

**NOTE:** For conventional torque the fastener will be Right Hand or Left Hand.



# BASIC BOLTING

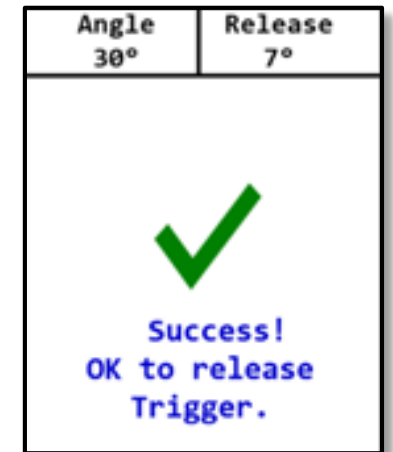
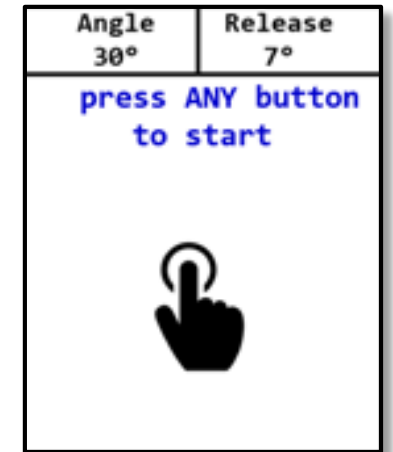
- ❑ Press the Direction Switch to set Tool direction.
- ❑ Set Speed Switch to TORQUE or RUNDOWN.
- ❑ Secure the back nut, if necessary, to prevent from turning during torque operation.
- ❑ For conventional bolting, abut the reaction arm firmly against anchor point.
- ❑ Place socket over nut until firmly engaged. If using the HYTORC Washer or HYTORC Nut, make sure the driver properly engages the fastener.



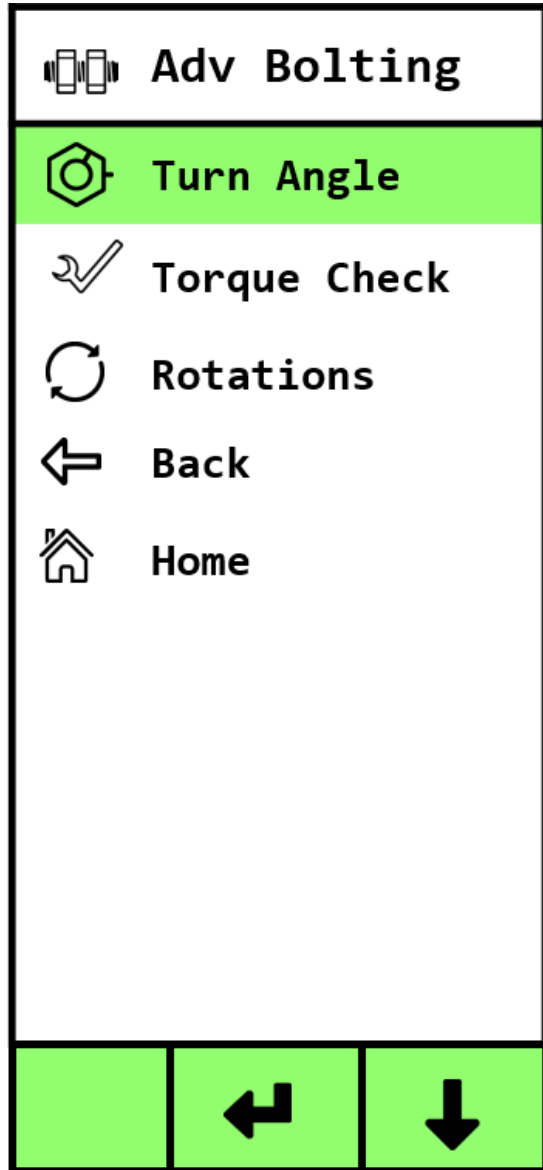


# BASIC BOLTING

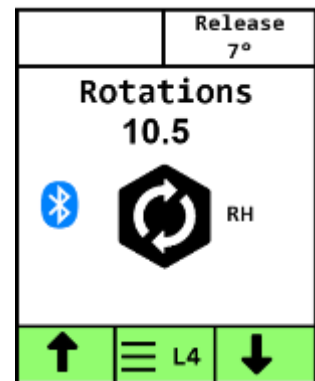
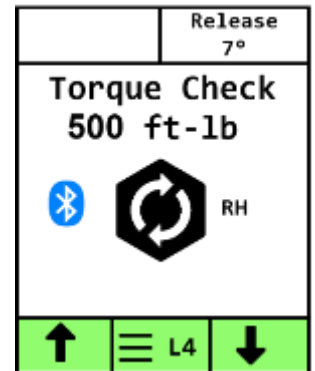
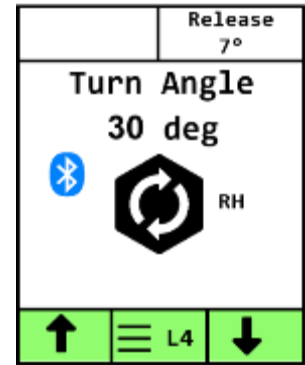
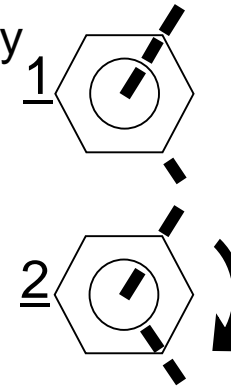
- ❑ Pull and hold the trigger. A message instructs the user to press any button to start, to keep hands clear of reaction arm.
- ❑ Once operator pushes a button the drive will begin to turn.
- ❑ If ANGLE or RELEASE has been specified the tool will pause before finishing each operation.
- ❑ Successful operation is indicated with beeper sound, if enabled, and green status light.
- ❑ If no RELEASE has been set the Tool may lock onto the nut; set Direction Switch to loosen and jog trigger until Tool is free.



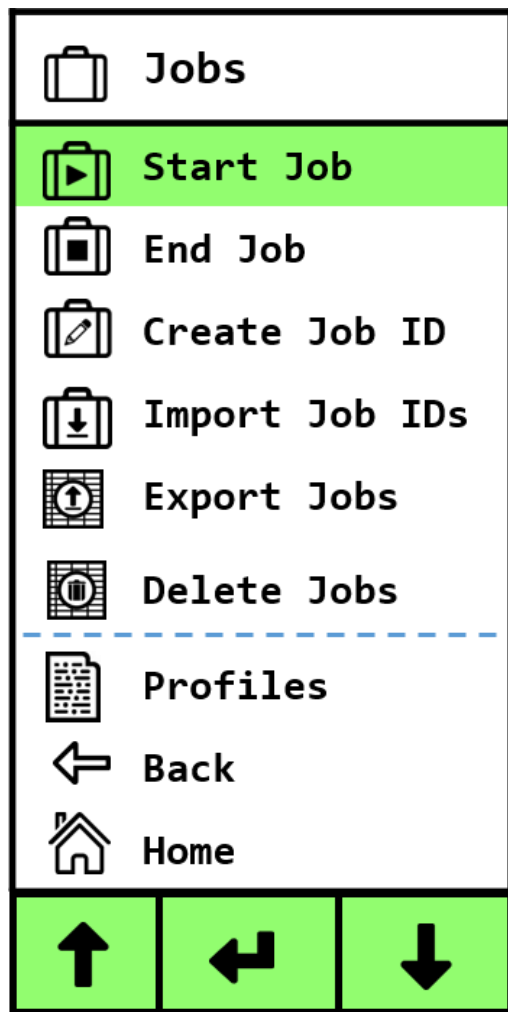
# ADVANCED BOLTING



- ❑ **Turn Angle:** used to complete Turn-Of-Nut procedures by turning a snug-tightened nut through specified angle.
- ❑ **Torque Check:** used to determine whether a previously tightened nut still meets specification.
  - Typically, the user sets Torque Check to 90% of the specification value, pulls the trigger and monitors the nut to detect any movement.
  - When job data is exported, the profile type for Torque Check is “TCK”.
  - Available on 2000, 3000, and 5000 configurations
- ❑ **Rotations:** turns a fastener through a specific number of rotations.
  - Tool will turn nut and stop at the specified number of Rotations.
  - Continue holding trigger if applying angle or release.
  - The max number of the rotations is 99.9 rotations.

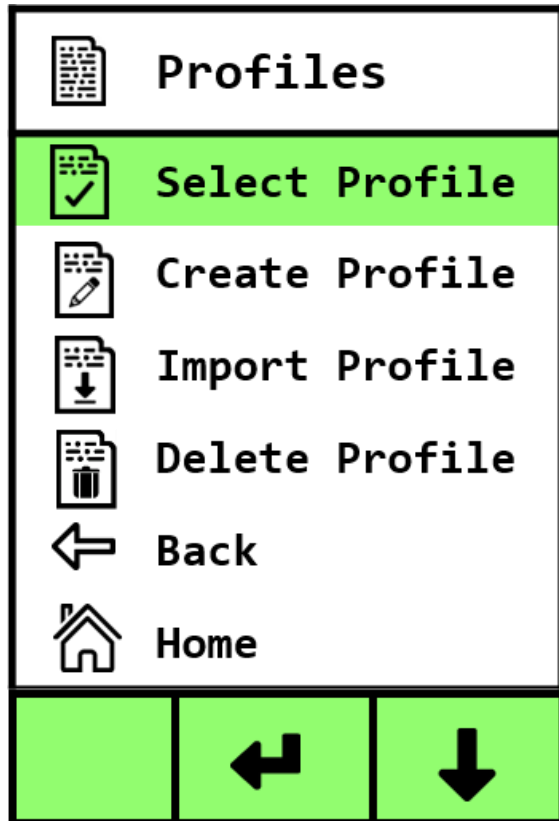


# JOB



- ❑ The **Jobs** function allows the tool to record and document bolting results for a specific operation or sequence. The Job record includes a Job ID, the tool parameters and results for each bolting operation.
- ❑ **Start Job:** Select a Job ID and begin recording data under that ID. Select **End Job** to stop recording.
- ❑ **Create Job ID:** Create a Job ID of up to 8 alphanumeric characters.
- ❑ **Import Job ID:** Import Job IDs from a PC via USB or Bluetooth.
- ❑ **Export Jobs:** Send documentation to a PC via USB or Bluetooth.
- ❑ **Delete Jobs:** Allows the user to delete job data.
















# PROFILES



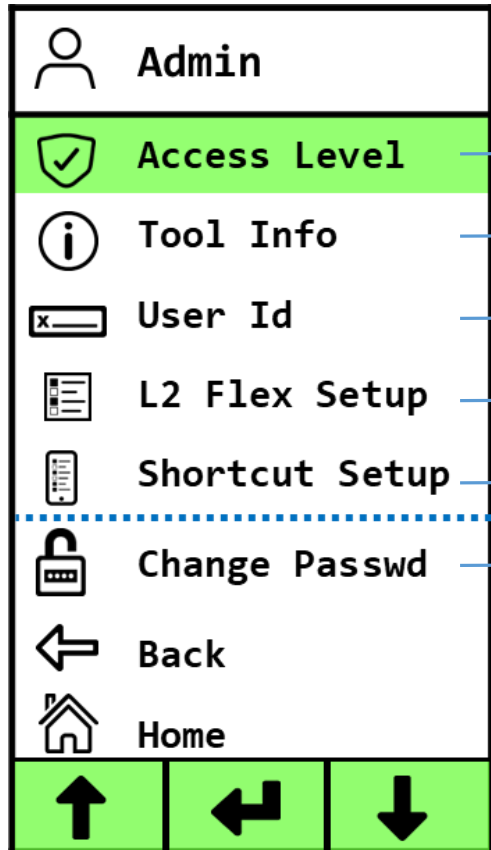
- ❑ A **Profile** is a saved set of tool parameters that can be easily recalled from memory. It includes a Profile ID (PID), a Profile Type (PTYPE), and the parameters required for the specific profile type.
- ❑ A profile can be entered directly with the 3-button interface via **Create Profile**. Enter the Profile ID by scrolling and selecting up to eight characters. Press the center button to complete the entry.
- ❑ Select one of the five **Profile Types** from the menu, then enter the desired parameters.
- ❑ Once saved, the profile can be recalled using the **Select Profile** option. When a profile is active the parameters are displayed on the screen along with the profile ID.
- ❑ The user can also import profiles from a PC via USB or Bluetooth.



# SETTINGS

 <b>Units</b>	<b>Units:</b> Display torque in ft-lbs, N-m, kgf-m or % of maximum torque.
 <b>Clock</b>	<b>Clock:</b> Set time and date.
 <b>Bluetooth</b>	<b>Bluetooth:</b> Configure Bluetooth settings.
 <b>Torque Limits</b>	<b>Torque Limits:</b> Set limits on Torque operations.
 <b>Angle Limits</b>	<b>Angle Limits:</b> Set limits on Angle operations.
 <b>Angle Delay</b>	<b>Angle Delay:</b> Adjust time between Torque, Angle, and Release.
 <b>Beeper</b>	<b>Beeper:</b> Turn notification beeper on or off.
 <b>Invert Screen</b>	<b>Invert Screen:</b> Flip screen (for when the Tool is inverted).
 <b>Icons</b>	<b>Icons:</b> Turn the menu icons on or off.
 <b>Auto Shutdown</b>	<b>Auto Shutdown:</b> Enable/disable 5 minutes automatic shutdown.
 <b>Button Delay</b>	<b>Button Delay:</b> Set button response time.
 <b>Work Light</b>	<b>Work Light:</b> Enable/disable the work light.
 <b>App Mode</b>	<b>App Mode:</b> Used to sync tool with HYTORC bolting software.
 <b>Back</b>	
 <b>Home</b>	

# ADMIN



**Access Level:** Set Tool to one of four password-protected access levels.

**Tool Info:** View Tool information such as firmware version and cycle count.

**User ID:** User can enter their own unique ID for job documentation.

**L2 Flex Setup:** Admin can configure functions available to L2 Flex Users.

**Shortcut Setup:** Admin can create custom menu in place of the main menu.

**Change Passwd:** Admin can change password for all access levels.

# ACCESS LEVELS

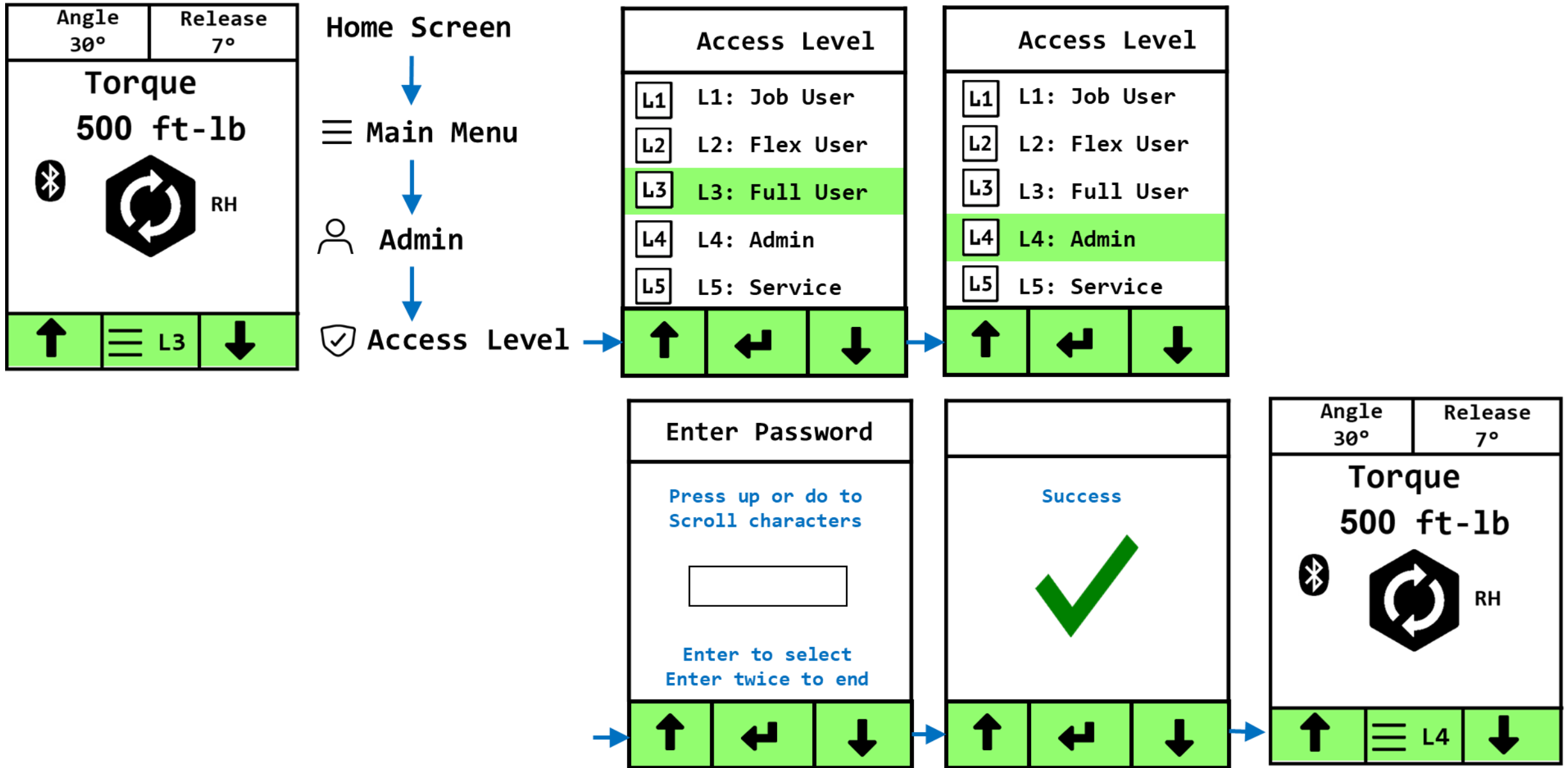


→ Tool ships in Level 4

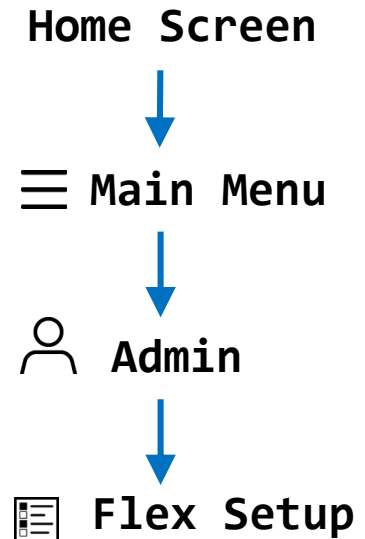
Level	User	Access
L5	Service	For HYTORC Service Only
L4	Admin	Full Access + PW+ Calibration
L3	Full	Full Access
L2	Flex	Customized Access
L1	Jobs	Only Defined Jobs Access

- Need password to access a higher level
- No password to access a lower level

# ACCESS LEVELS



# FLEX SETUP



Main Menu

- Torque
- Snug
- Angle
- Release
- Fastener
- Adv Bolting
- Jobs
- Settings
- Admin
- Service
- Done

↑ ↶ ↓



Main Menu

- Torque
- Snug
- Angle
- Release
- Fastener
- Adv Bolting
- Jobs
- Settings
- Admin
- Service
- Done

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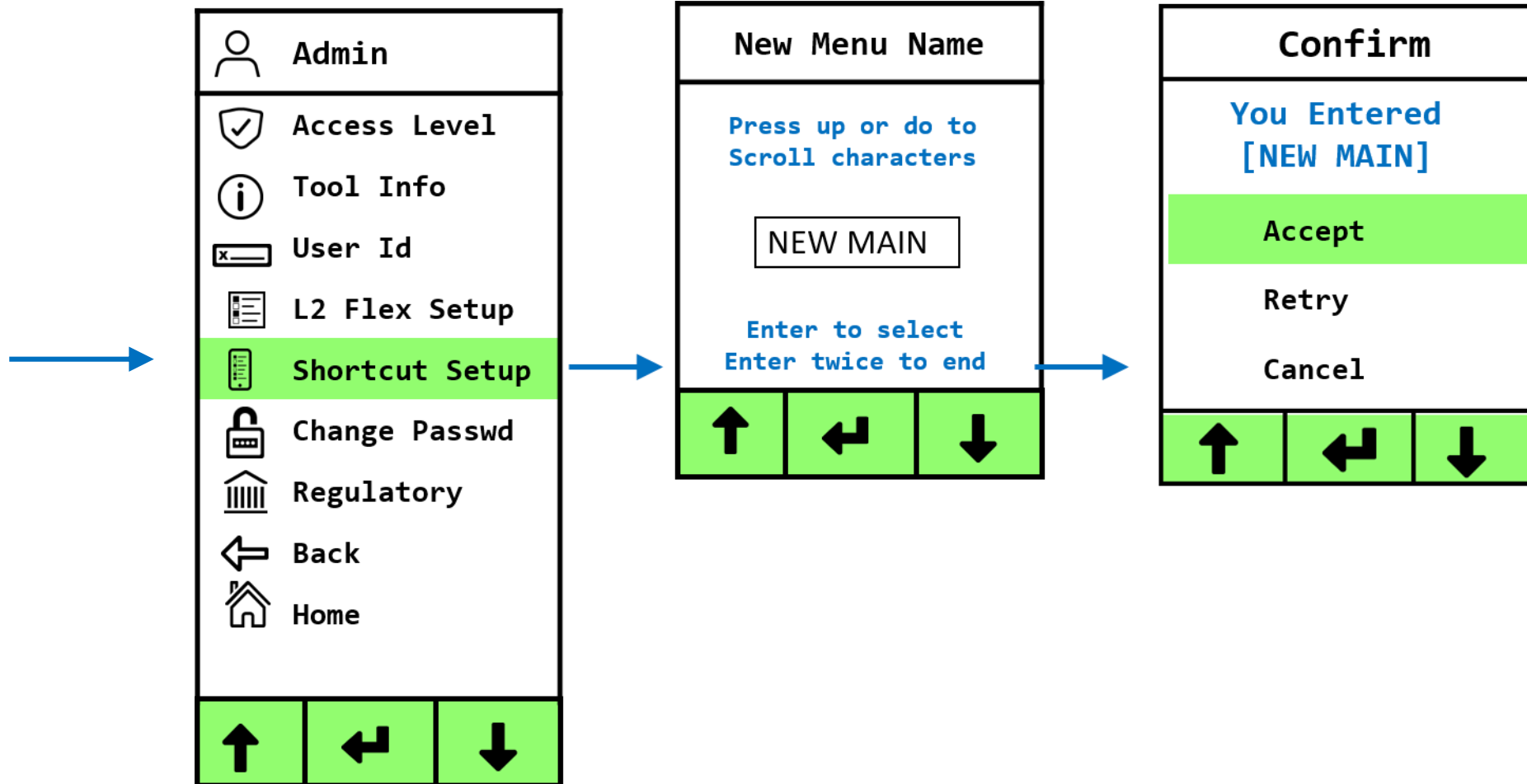


Confirmation

- Accept
- Retry
- Cancel

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







# SHORTCUT SETUP













# SHORTCUT SETUP

Shortcut Options

-  Turn Angle
-  Torque Check
-  Rotations
-  Start Job
-  Select Profile
-  Export Data
-  User Id
-  Done

↑ ↶ ↓

Shortcut Options

-  Turn Angle
-  Torque Check
-  Rotations
-  Start Job
-  Select Profile
-  Export Data
-  User Id
-  Done

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Accept Shortcuts?

NEW MAIN

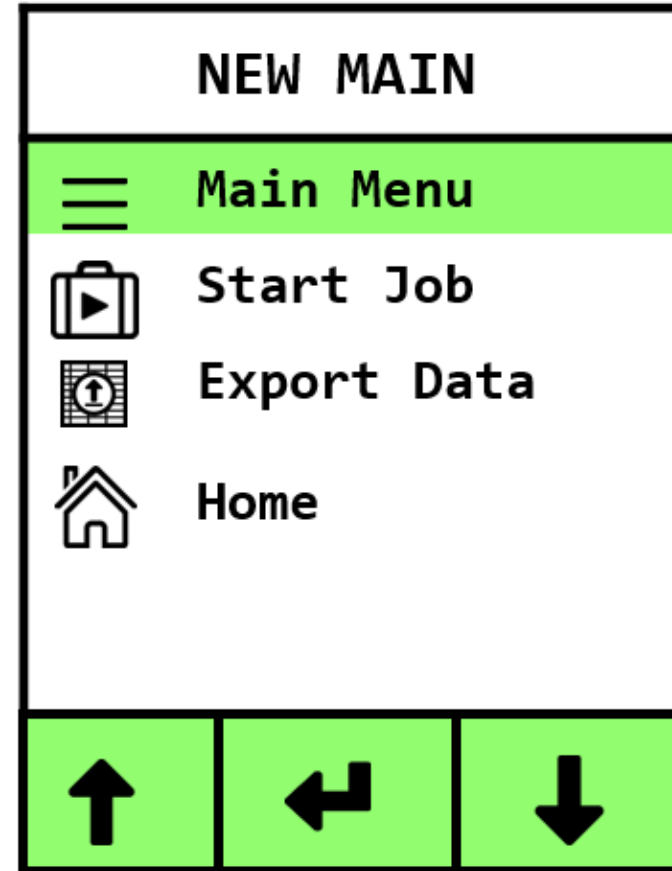
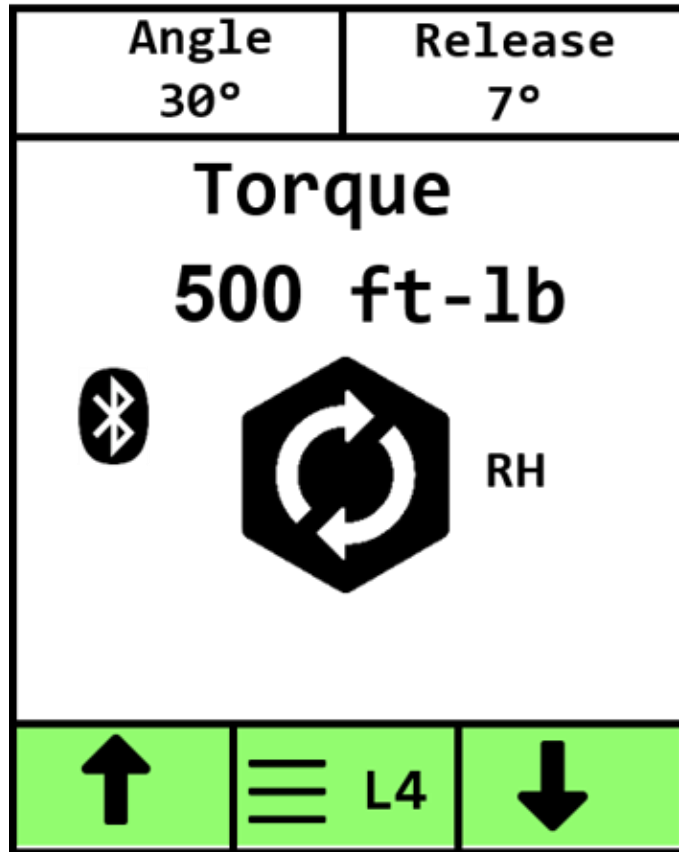
Accept

Retry

Cancel

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# SHORTCUT SETUP



# BLUETOOTH® WIRELESS TECHNOLOGY



- Upgrade Firmware
- Transfer Data



## Four-Page Cut Sheet

ELECTRIC



### LITHIUM SERIES® II Electric Torque Tool

The LITHIUM SERIES II Electric Torque Tool is the next revolution in bolting technology redesigned from the ground up with expanded functionality, greater durability, and intuitive usability. This lightweight 36 Volt battery powered tool, with capacity up to 5,000 ft-lbs, is the ultimate solution for strength and portability in industrial bolting jobs worldwide. This tool is compatible with conventional sockets, the HYTORC Washer, and the HYTORC Nut.

#### FEATURE LIST



- **TorSense™ Technology**
- **Brushless Motor**
- **All Aluminum Housing**
- High Strength Gearbox
- Nickel Plated
- Rear Shock Guard
- Work Light
- High Resolution Display
- **Directional Switch**
- Snug Function
- **Intuitive User Interface**
- Access Levels
- Data Acquisition
- **Bluetooth Wireless Technology**
- Expanded Job Data Management
- Advanced Bolting Features
- **Compatible with HYTORC Nut**
- **Compatible with HYTORC Washer**

• Look inside for detailed information about the highlighted features above.

1-800-FOR-HYTORC

**HYTORC**

HYTORC.COM

#### TESTIMONIAL

"I HAVE BEEN AROUND PLENTY OF BOLTING TOOLS, SEEN MANY TOOLS USED. BUT THIS IS REALLY COOL! IT'S LIGHTER THAN I EXPECTED, IT'S REALLY FOOL PROOF, AND SO SIMPLE THAT ANYONE CAN GET THE JOB DONE. THE GUYS ARE GOING TO BE ABLE TO WORK LONGER AND SAFER, WHILE STILL GETTING THE JOB DONE RIGHT. I LOVE IT!"

Kyle Chambers  
Texas Quality Assurance



#### TorSense™ Technology



A direct torque measurement system utilizing a strain based transducer in a closed loop monitoring system provides more repeatable torque and enables advanced bolting features.

#### BRUSHLESS 36V DC MOTOR



The tool uses an all new 36V brushless DC motor which runs cooler, quieter, and has significantly longer life.

#### INTUITIVE USER INTERFACE



The home screen and menu structure have been redesigned with all new icons, indicators, and simple navigation layout making the tool intuitive and simple to use.

**HYTORC**

#### BLUETOOTH WIRELESS TECHNOLOGY



Now standard with Bluetooth wireless technology, the tool makes data transfer easier than ever! Job data and tool firmware upgrades can now be performed wirelessly.

#### MULTIPLE TOOL CONFIGURATIONS



The tool is easily configured for conventional sockets and reactions arms, the HYTORC Washer System, and precision mechanical tensioning with the HYTORC Nut.

#### ALL-ALUMINUM HOUSING



The new all-aluminum housing vastly improves impact resistance and durability protecting the tool's vital components. The gearbox is also nickel plated for corrosion resistance.

#### DIRECTIONAL SWITCH



Conveniently located near the trigger, the sliding directional switch can quickly change drive direction from tighten and loosen with a simple push of a button.

LITHIUM SERIES® II Electric Torque Tool

#### SERVICE AND SUPPORT

##### HYTORC STANDARD



With over 50 years of experience focused entirely on developing the highest quality industrial bolting systems, HYTORC remains committed to higher performance and service and offers superior technology, quality, and support.

##### CUSTOMER SERVICE



There is no bolting challenge too big or too small. Reach out to us today and let us know how we can help improve your productivity through advancements in bolting.

##### HYTORC WARRANTY

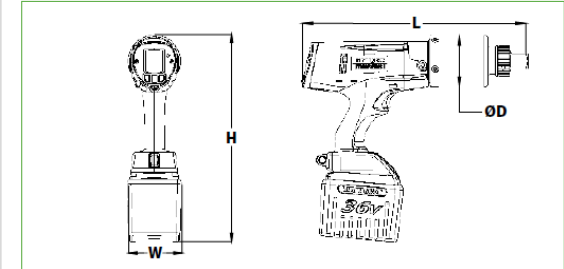


- All repairs are guaranteed for 6 months
- One-Year warranty
- 5-Year tool housing warranty

##### VISIT US ONLINE

hytorc.com/standard  
hytorc.com/customer-service-policy  
hytorc.com/about-us

ELECTRIC



LEGEND: H = HEIGHT W = WIDTH L = LENGTH OD = DIAMETER

CONFIGURATIONS	H	W	L	D	DRIVE	WEIGHT		SNUG		TORQUE	
						Wt. Battery	lbs.	ft-lbs (Min)	ft-lbs (Max)	ft-lbs (Min)	ft-lbs (Max)
<b>IMPERIAL</b>											
LST-0700	12.9	3.5	11.4	2.6	3/4	11.7	35	149	150	700	
LST-1200	12.9	3.5	11.7	2.6	3/4	12.0	60	199	200	1,200	
LST-2000	13.2	3.5	13.9	3.2	1	16.6	100	294	325	2,000	
LST-3000	13.3	3.5	14.4	3.4	1	17.7	150	459	500	3,000	
LST-5000	16.6	4.0	15.4	4.0	1-1/2	22.4	200	799	800	5,000	
<b>METRIC</b>											
LST-0700	328	89	290	66	3/4	5.3	47	202	203	949	
LST-1200	328	89	297	66	3/4	5.5	81	270	271	1627	
LST-2000	335	89	353	81	1	7.5	135	439	440	2712	
LST-3000	338	89	366	86	1	8.0	203	676	677	4067	
LST-5000	422	102	391	102	1-1/2	10.2	270	1083	1085	6779	

#### COMPLETE KIT CONTENTS

- LITHIUM SERIES II Tool
- Reaction Arm
- Storage Case
- 36V Battery (Two)
- Battery Charging System
- Side Handle
- Calibration Certificate
- Operation Manual

#### LST

**Model:** LITHIUM SERIES TOOL  
**Capacity:** Available: 0700, 1200, 2000, 3000, 5000  
**Communication:** Blank: Bluetooth Communication  
U: USB Only

#### Examples:

1. LST-0700 standard tool, 700 ft-lb capacity, with Bluetooth Communication
2. LST-0700-U standard tool, 700 ft-lb capacity, without Bluetooth - USB Connection Only

**HYTORC**

**Headquarters:**  
323 Route 17 N, Mahwah, NJ 07430  
+1-201-512-9500

**Phone:**  
1-800-FOR-HYTORC

**Email:**  
info@hytorc.com


**Online:**  
hytorc.com

000020 016 4020 LST



## Manuals

**HYTORC**  
The World's Most Trusted Industrial Bolting Systems



**LITHIUM SERIES® II Electric Torque Tool**  
Basic Operations Manual

333 Route 17 N.  
Mahwah, NJ 07430  
USA

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(800-367-4986)  
201-512-9500

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**LITHIUM SERIES® II Electric Torque Tool**  
User Interface Guide

Preliminary April 2020

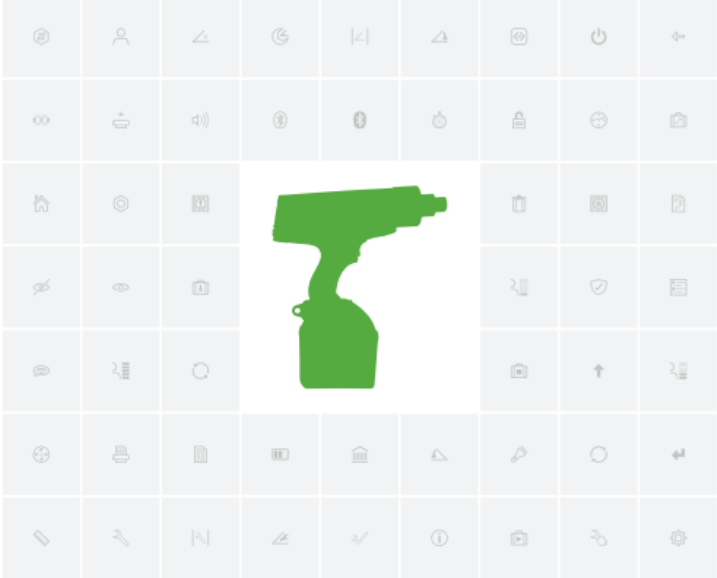
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201-512-9500

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Icon Reference Guide

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(800-367-4986)  
201-512-9500

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## Comparison Chart

	Lithium Series II	Lithium Series I
<b>Motor</b>	Brushless, Longer Life, Quiet	Brushed
<b>Gearbox</b>	Torque Multiplier, 20% Stronger, Nickel Plated	Torque Multiplier
<b>Housing</b>	All Aluminum	Plastic with Aluminum Frame
<b>Direction Control</b>	Switch	Button
<b>Display</b>	High Density LCD, 4X Resolution	Standard Density LCD
<b>Torque Measurement</b>	TorcSense™ Technology	Current Controlled
<b>Accuracy</b>	± 5%	± 5%
<b>Model Sizes</b>	700, 1200, 2000, 3000, 5000	700, 1000, 2000, 3000
<b>Worklight</b>	Available	-
<b>Communication</b>	USB, Bluetooth Wireless Technology	USB
<b>Side Handle</b>	Standard Accessory	-
<b>Menu Navigation</b>	Intuitive Hierarchy	Multiple Menus
<b>Advanced Bolting</b>	Torque Check, Turn Angle, Rotations	Torque Check
<b>Administrative</b>	5 Access Levels, Security	2 Access Levels, Security
<b>Shortcut</b>	Customizable Menu	Limited to Buttons
<b>Documentation</b>	Data Transfer, Jobs, Profiles	Data Transfer
<b>Snug Function</b>	Available	-
<b>Compliance</b>	Global	Limited/Outdated

ELECTRIC

**LITHIUM SERIES® COMPARISON CHART**




FEATURE	LITHIUM SERIES® II	LITHIUM SERIES® I
BATTERY	30V Lithium Ion	30V Lithium Ion
MOTOR	Brushless Longer Life Quiet	Brushed
GEARBOX	Torque Multiplier 20% Stronger Nickel Plated	Torque Multiplier
HOUSING	All Aluminum	Plastic with Aluminum Frame
DIRECTION CONTROL	Switch	Via Menu
DISPLAY	High Density LCD 4X Resolution	Standard Density LCD
TORQUE MEASUREMENT	TorcSense™ Technology	Current Controlled
ACCURACY	± 5%	± 5%
MODEL SIZES	700, 1200, 2000, 3000, 5000	700, 1000, 2000, 3000
SPEED	2 Speed with Rundown	2 Speed with Rundown
WORKLIGHT	Standard	-
COMMUNICATION	USB Bluetooth® Wireless Technology	USB
SIDE HANDLE	Standard Accessory	-
MENU NAVIGATION	Intuitive Hierarchy	Multiple Menus
ADVANCED BOLTING	Torque Check Turn Angle Rotations	Torque Check (larger models)
ADMINISTRATIVE	5 Access Levels Customizable	-
SHORTCUT MENU	Data Transfer Jobs Profiles	-
DOCUMENTATION	Data Transfer	Data Transfer
SNUG FUNCTION	Available	-
COMPLIANCE	Global	Limited



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Email:  
info@hytorc.com

Online:  
hytorc.com

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# LITHIUM SERIES II SUPPORT MATERIALS

## Videos



LST\_Repair\_Calibration\_



LST\_Repair\_Configuration\_



LST\_Repair\_Gearbox\_Disassembly



LST\_Repair\_Handle\_Disassembly



LST\_Repair\_Soldering\_Motor\_Board



LST\_Repair\_Wired\_Connection\_



LST\_Repair\_Wireless\_Connection\_

TORCSAFE™								Customer Portal
Organization	Document Title	Document Type	Equipment Model	Equipment Technology	Tool	Using	Attachment	Date
Demonstrations	Video Demos/tutorials	LST II Oil & Water Repair Video	Electric	Lithium Series II Torque Tool	LST_Tool_Oil_Water_Repair_V722.mpg			2020-01-07
Demonstrations	Video Demos/tutorials	LST II Oil & Water Repair Video	Electric	Lithium Series II Torque Tool	LST_Tool_Oil_Water_Repair_V722.mpg			2020-01-07
Demonstrations	Video Demos/tutorials	LST II Gearbox Assembly	Electric	Lithium Series II Torque Tool	LST_Tool_Gearbox_Assembly_V722.mpg			2020-01-07
Demonstrations	Video Demos/tutorials	LST II Motor Assembly and Motor Removal	Electric	Lithium Series II Torque Tool	LST_Tool_Motor_Assembly_V722.mpg			2020-01-07
Demonstrations	Video Demos/tutorials	Oil Loading the Motor Drive Board	Electric	Lithium Series II Torque Tool	LST_Tool_Oil_Loading_Motor_Drive_V722.mpg			2020-01-07
Demonstrations	Video Demos/tutorials	LST II Loading Torque Profiles	Electric	Lithium Series II Torque Tool	LST_Tool_Loading_Profile_V722.mpg			2020-01-07
Demonstrations	Video Demos/tutorials	LST II Loading Torque Profiles	Electric	Lithium Series II Torque Tool	LST_Tool_Loading_Profile_V722.mpg			2020-01-07

## Battery Safety

### LITHIUM ION BATTERY SAFETY INSTRUCTIONS



#### WARNING

HYTORC Lithium Ion batteries contain regulated and potentially hazardous material with risk of fire or injury if not handled properly. This document provides instructions for care and handling to ensure the safe usage, disposal and shipment.

#### LITHIUM-ION BATTERY CARE AND USE

- **Charge Only in Specified Charger:** Recharge the battery only with the HYTORC charger designed for the battery. Do not charge the battery with any other chargers. Do not alter the battery or force the battery to fit in other chargers.
- **Avoid Explosive Environments:** Do not charge or use the battery in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Inserting or removing the battery from the charger in explosive environments may ignite dust or fumes.
- **Do Not Service:** Do not attempt to service, disassemble or open a battery for any reason.
- **Do Not Drop, Impact or Crush:** Do not drop, impact or crush the battery. A battery that has been dropped, impacted or crushed may be damaged internally even if no damage is visible and should be disposed of properly.
- **Do Not Get Wet:** Do not expose a battery or charger to liquid, moisture or high humidity where water can condense on the battery. Do not operate in rain or snow. Do not use any battery that has been wet. Properly dispose of any battery that has been wet.
- **Avoid Corrosive Environments:** Do not expose the battery to corrosive environments where terminals or components can corrode and potentially cause a short circuit.
- **Do Not Use a Damaged Battery:** Do not insert a battery into charger or tool if battery pack case is cracked or damaged in any way. Any damaged battery should be disposed of properly.
- **Avoid Inhalation:** If fluids are seen coming from the inside of the battery, avoid breathing vapors and properly dispose of battery.
- **Avoid Contact:** If fluids from inside the battery come in contact with the skin, flush the affected area with water. If the contents come into contact with the eyes, flush with water for 15 minutes and seek medical attention.
- **Do Not Incinerate:** Do not incinerate the battery pack or expose it to excessive heat, even if damaged or worn out. Toxic fumes, violent burning or even explosions may result.
- **Avoid High Temperature Storage:** Do not store batteries in excess of 122° F (50° C). Doing so will greatly shorten the life of the battery.
- **Keep Terminals Clear of Metal Objects:** Make sure that battery terminals are protected from direct contact with metallic objects or materials which can potentially cause a short circuit.

(Continued on following page.)

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### LITHIUM ION BATTERY SAFETY INSTRUCTIONS

#### DISPOSAL AND RECYCLING

Do not ship batteries if they can be disposed of or recycled locally. Defective, damaged or spent batteries should be disposed of or recycled properly at an authorized waste collection or battery recycling center.



- **Dispose of Properly:** Lithium-ion batteries should not be disposed of in the household (municipal) waste stream; they must be taken or shipped to an authorized electronic waste collection center or battery recycling center.
- **Protect the Environment:** HYTORC has partnered with Call2Recycle to ensure that batteries are responsibly recycled when they reach their end of life. Visit [call2recycle.org](http://call2recycle.org) or call 1-800-822-8837 to locate the battery recycling location closest to you.

#### SHIPPING

Do not ship batteries if they can be disposed of or recycled locally. Lithium-ion batteries are regulated in most countries as hazardous materials for transportation. Should it become necessary to ship a battery, follow all relevant government regulations. Battery shipments may require specialized packaging, labeling and documentation to comply with government regulations.

- **Contact Your Carrier:** To ensure adherence to proper regulations contact your carrier for the exact details on how to safely pack and ship Lithium-ion batteries.
- **Protect the Battery:** If it becomes necessary to pack a battery for shipment be sure to protect battery terminals so that they are not in contact with metal objects and protect the battery from moisture, shock and vibration.
- **Ship to HYTORC:** If a battery is returned to HYTORC for any reason, use UPS Ground and ship to: HYTORC, 100 Wesley Street, South Hackensack, NJ 07606.



The World's Most Trusted Industrial Bolting Systems

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**Headquarters:**  
333 Route 17 N., Mahwah, NJ 07430  
+1-201-512-9500

**Phone:**  
1-800-FOR-HYTORC

**Email:**  
[info@hytorc.com](mailto:info@hytorc.com)

**Online:**  
[hytorc.com](http://hytorc.com)

# Thank you



HYTORC  
333 Route 17 North  
Mahwah, NJ 07430

**Phone:**  
201-512-9500

**Email:**  
[info@hytorc.com](mailto:info@hytorc.com)

**Online:** [hytorc.com](http://hytorc.com)