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2200PTP-18

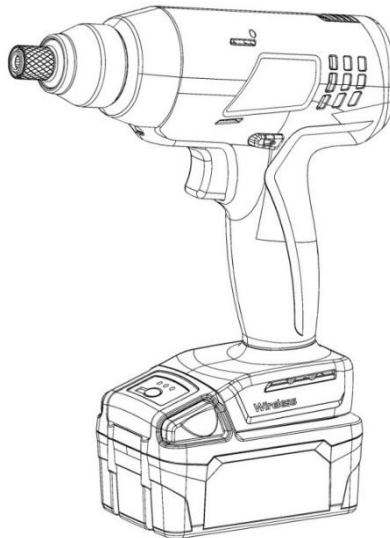
2200PTP-24

WIRELESS TRANSDUCER POWER TOOL

PRODUCT INFORMATION MANUAL

THIS MANUAL CONTAINS IMPORTANT INFORMATION REGARDING SAFETY, OPERATION, MAINTENANCE AND STORAGE OF THIS PRODUCT.

DO NOT ATTEMPT TO OPERATE THE TOOL UNTIL YOU HAVE READ AND UNDERSTOOD ALL INSTRUCTIONS AND SAFETY RULES CONTAINED IN THIS MANUAL. FAILURE TO COMPLY MAY RESULT IN ACCIDENTS INVOLVING FIRE, ELECTRIC SHOCK, OR SERIOUS PERSONAL INJURY. SAVE THIS OWNER'S MANUAL FOR FUTURE REFERENCE AND REVIEW IT FREQUENTLY FOR SAFE OPERATION.



Original Instructions



INTENDED USE

This tool is intended for trained adult use only.

This screwdriver is designed to remove and install threaded fasteners.

GENERAL SAFETY RULES

WARNING

Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term "power tool" in all the warnings listed below refers to your mains-operated battery-operated (cordless) power tool.

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

RECOGNIZE SAFETY SYMBOLS, WORDS AND LABELS

The safety instructions provided in this manual are not intended to cover all possible conditions and practices that may occur when operating, maintaining, and cleaning power tools.

Always use common sense and pay particular attention to all the **DANGER**, **WARNING**, **CAUTION** and **NOTE** statements of this manual.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

NOTE

NOTE provides additional information that is useful for proper use and maintenance of this tool. If a **NOTE** is indicated make sure it is fully understood.

WARNING LABEL IDENTIFICATION



Read Manuals Before Operating Product.



Wear Eye Protection.



Wear Hearing Protection.



Wear Dust Mask.



Power tools can vibrate in use.



Keep body stance balanced and firm. Do not overreach when operating this tool.



Recycling



Do not drop the battery and charger into trashcan.



CE marking is a certification mark that indicates conformity with health, safety, and environmental protection standards for products sold within the European

IMPORTANT SAFETY RULES

⚠ DANGER

When using power tools, always prevent exposure and breathing of harmful dust and particles.

WARNING: Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks and cement and other masonry products, and arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well-ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.

WARNING: Handling the power cord on corded products may expose you to lead, a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. ***Wash hands after handling.***

WORK AREA

WARNING

- a. **Keep work area clean and well lit.** Cluttered and dark areas invite accidents.
- b. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Power tools create sparks which may ignite the dust or fumes.
- c. **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

ELECTRICAL SAFETY

WARNING

- a. **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges, and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- b. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock
- c. **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- d. **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- e. **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.
- f. **NOTE** The term “residual current device (RCD)” can be replaced by the term “ground fault circuit interrupter (GFCI)” or “earth leakage circuit breaker (ELCB)”.

PERSONAL SAFETY

WARNING

- a. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- b. **Use safety equipment. Always wear eye protection.** Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c. **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- d. **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e. **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- f. **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
- g. **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of these devices can reduce dust-related hazards.

- h. **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

TOOL USE AND CARE

WARNING

- a. **Use clamps or other practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body is unstable and may lead to loss of control.
- b. **Do not force tool. Use the correct tool for your application.** The correct tool will do the job better and safer at the rate for which it is designed.
- c. **Do not use tool if switch does not turn it on or off.** A tool that cannot be controlled with the switch is dangerous and must be repaired.
- d. **Disconnect battery pack from tool or place the switch in the locked or off position before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.
- e. **Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
- f. **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.**
Many accidents are caused by poorly maintained power tools.
- g. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- h. **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.
- i. **Keep handles and grasping surfaces dry, clean and free from oil and grease.**
Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.
- j. **When battery pack is not in use, keep it away from other metal objects like: paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another.** Shorting the battery terminals together may cause sparks, burns, or a fire.
- k. **Maintain tools with care. Keep cutting tools sharp and clean.** Properly maintained tools with sharp cutting edge are less likely to bind and are easier to control.
- l. **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using.** Many accidents are caused by poorly maintained tools.
- m. **Use only accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one tool may create a risk of injury when used on another tool.

BATTERY TOOL USE AND CARE

WARNING

- a. **Ensure the switch is in the off position before inserting battery pack.** Inserting the battery pack into power tools that have the switch on invites accidents.
- b. **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- c. **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- d. **When battery pack is not in use, keep it away from other metal objects like paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.

- e. **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.
- f. **Do not use a battery pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
- g. Modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
- h. **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 130 °C (265 °F).
- i. **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

SERVICE

Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel may result in a risk of injury.

When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of shock or injury.

SPECIFIC SAFETY RULES AND SYMBOLS

CAUTION

Hold tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring. Contact with 'live' wire will also make exposed metal parts of the tool 'live' and shock the operator.

Be aware that this tool is always in an operating condition, because it does not have to be plugged into an electrical outlet. Always set the trigger switch to the locked OFF position when installing or removing the battery pack or bits.

Do not use bits or sockets larger than those recommended. Large bits or drills may overload the wrench/driver and damage the motor and gears.

Do not use if chuck jaws or other parts are cracked or worn.

Never change direction of rotation until motor has completely stopped.

Never hold work in your hand, lap, or against other parts of your body when driving.

Do not use drill as a router or try to elongate or enlarge holes by twisting the drill bit. Drill bits may break and cause injury.


Keep hands away from rotating parts.

Keep drill bit clear of yourself and all objects while installing and removing bit.

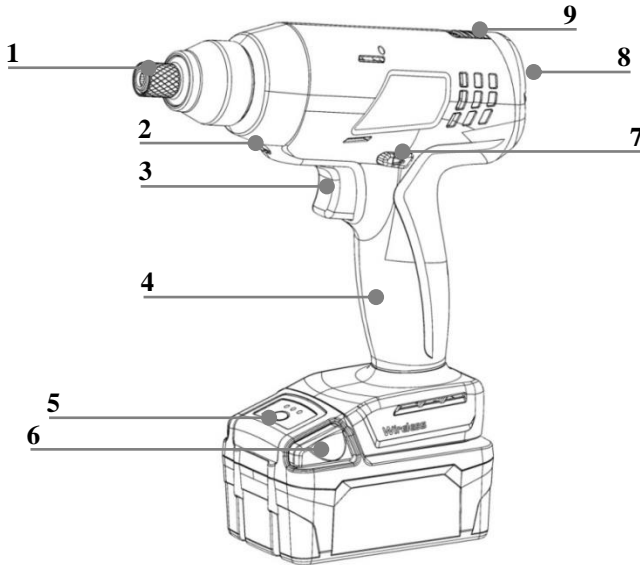
Some wood contains preservatives which can be toxic. Take extra care to prevent inhalation and skin contact when working with these materials. Request, and follow, all safety information available from your material supplier.

SYMBOLS

The label on your tool may include the following symbols. The symbols and their definitions are as follows:

SYMBOL	NAME	EXPLANATION
V	Volts	Voltage (potential)
n _o	No Load Speed	No-load Rotational Speed
kg	Kilograms	Weight
 d.c.	Direct Current	Type of Current
.../min	Revolutions per Minute	Revolutions, Surface Speed, Strokes, etc. per Minute
rpm	Revolutions per Minute	Revolutions, Surface Speed, Strokes, etc. per Minute

FUNCTIONAL DESCRIPTION



CONTROLS AND COMPONENTS:

- | | |
|--------------------------|-------------------|
| 1. 1/4" Hex. Shank | 2. LED Lamp |
| 3. Trigger | 4. Handle |
| 5. Battery Pack | 6. Release Button |
| 7. Forward/Reverse Lever | 8. Display Screen |
| 9. USB Port | |

SPECIFICATIONS

Model Number	Unit	2200PTP-18	2200PTP-24
Voltage	VDC	20	
Drive/Anvil	in.	1/4" Hex.	
Tightening Torque	Nm	3-18	6-24
Programmable Speed	rpm	50-800	50-600
Tool Weight (with 4.0 Ah. battery)	Kg	1.66	
Noise value	LpA= 73.7 dB(A), KpA= 3 dB(A)		
Vibration value	ah= 0.887 m/s ² , K= 1.5 m/s ²		

▲ WARNING

- that the vibration emission during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used; and
- of the need to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).

Charger Model Number	2000PTC / 2000PTCEU
Input	120 VAC ,50~60 Hz / 100-240 VAC, 50-60 Hz
Output	21.0 VDC
Output Amps	3.0A
Input Power	85W
Charger Weight	0.88 lbs / 0.4kg
Battery Pack Model Number	2000PTB
Type	Li-ion
Capacity	4.0Ah

OPERATION

OVERVIEW

The 2200PTP Series Wireless Power Tools are designed to work with the Global 400 and Global 400mp controller systems. These wireless tools are designed for industrial assembly use. The tool is completely dependent on the Global 400/400mp for directions and torque results reporting. Details on learning and programming the tool through the Global 400/400mp controllers may be found in the controller manual.

PARAMETER DEFINITION

Once learned into a controller, a parameter must be created and selected on the controller to enable the tool. Tool specific parameter settings include:

- **Mode** – Mode of operation for the tool (Peak or Angle).
- **Unit** – Units used by the tool.
- **Min Trq** – Minimum required torque for valid tightening.
- **Tgt Trq** – Target torque.
- **Max Trq** – Maximum allowed torque for valid tightening.
- **SD Trq** – Threshold for shift down torque.
- **Min Ang** – Minimum required angle for valid tightening.
- **Tgt Ang** – Target angle.
- **Max Ang** – Maximum allowed angle for valid tightening.
- **Free Spd** – Free rundown speed for the tool.
- **SD Spd** – Shift down speed for the tool.
- **Min RTim** – Minimum Rundown Time in seconds for valid tightening. The range of values is 0 to 25.5.
- **Max RTim** – Maximum Rundown Time in seconds for valid tightening. The range of values is 0 to 25.5.
- **Min RTur** – Minimum number of Rundown Turns for valid tightening. The range of values is 0 to 511.9.
- **Max RTur** – Maximum number of Rundown Turns for valid tightening. The range of values is 0 to 511.9.
- **Direction** – Allowed direction for the tool.

A timer may also be set on the controller **TOOL > EDIT** screen (Fig. 1) to define the interval the tool enters a power down state following the last applied torque or trigger pull. The range is from 0 to 480 minutes. The sleep timer is disabled when set to 0.

Tool 13	
Name:	23100002
Type:	2200PTP 18 N.m
Radio Info:	0042148CAF v1.36
Tool Version:	X0.19
Serial number:	23100002
Last calibration:	2024-04-02 00:00:00
Next calibration:	2025-04-02 00:00:00
Cycles:	90
Last PM at:	0 Set Now
Cycles before PM:	250000
Sleep Time (m):	10

Fig. 1

MODES OF OPERATION

Peak Mode

In Peak mode, the tool uses a torque value to determine when to stop tightening.

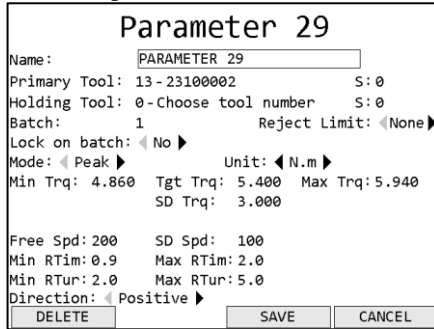


Fig. 2

When a Peak parameter (Fig. 2) is selected and the tool is enabled, the tool will display the target torque (Tgt Trq) value, units, batch count, and batch size on the display (see Fig. 3A).

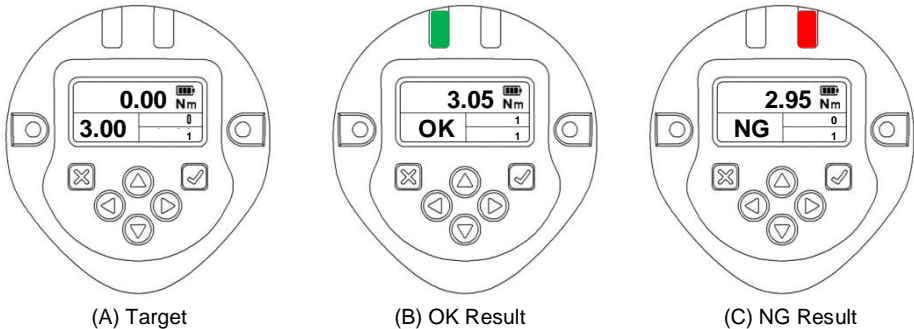


Fig. 3

Pull the trigger to run the tool. It will run at the Free Speed (Free Spd) setting until the Shift Down Torque (SD Trq) is reached. At that point, the tool will change to the Shift Down Speed (SD Spd). The tool will run at SD speed until the Target Torque (Tgt Trq) value is met then stop. When the trigger is released, the tool will use Min Trq and Max Trq to qualify the fastening result.

The tool will beep and light the green LED on a successful tightening (see Fig. 3B).

The tool will beep and light the red LED on an unsuccessful tightening (see Fig. 3C).

Reverse operation: The tool will show "REVERSE" on the display and flash the red and green LEDs when the direction lever is switched to reverse.

Note: If the parameter direction is set to negative, the tool will automatically run in the counterclockwise direction. Switching the direction lever on the tool will reverse the direction so the tool runs in the clockwise direction.

Angle Mode

In Angle mode, the tool uses an angle value to determine when to stop tightening.

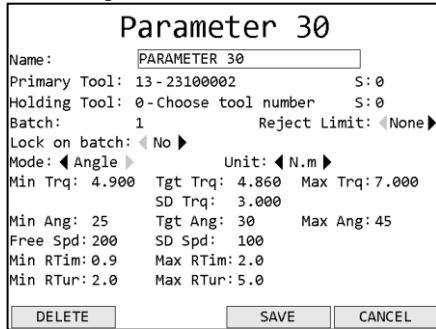


Fig. 4

When an Angle parameter (Fig. 4) is selected and the tool is enabled, the tool will display the target angle (Tgt Ang) value, degree symbol, batch count, and batch size on the display (see Fig. 5A).

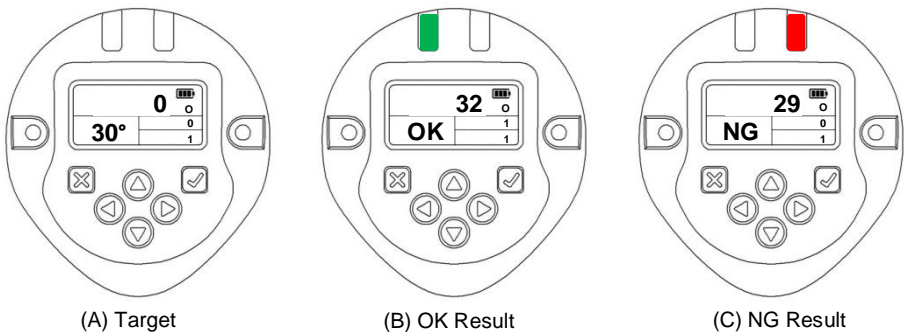


Fig. 5

Pull the trigger to run the tool. It will run at the Free Speed (Free Spd) setting until the Shift Down Torque (SD Trq) is reached. At that point, the tool will slow to the Shift Down Speed (SD Spd). The tool will run at SD speed until the Target Torque (Tgt Trq) value is met then begin to measure angle. The tool will run until the Target Angle (Tgt Ang) value is met then stop. When the trigger is released, the tool will use Min Ang and Max Ang to qualify the fastening result.

The tool will beep and light the green LED on a successful tightening (see Fig. 5B). The tool will beep and light the red LED on an unsuccessful tightening (see Fig. 5C).

Reverse operation: The tool will show "REVERSE" on the display and flash the red and green LEDs when the direction lever is switched to reverse.

INSTALLING OR REMOVING BATTERY PACK

TO INSTALL BATTERY PACK: Push battery pack (A) onto tool (B) until it locks in place (see Fig. 6).

TO REMOVE BATTERY PACK: Depress the two side release buttons (C) on battery pack and pull battery pack (A) off of tool (B) (see Fig. 6).

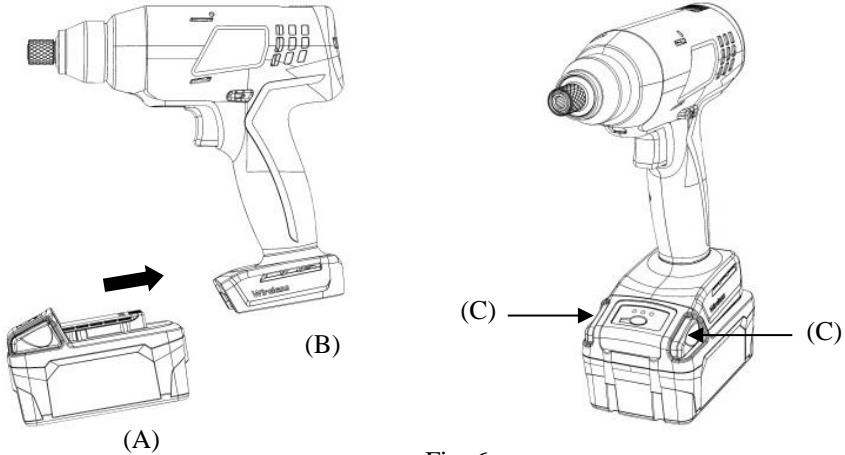


Fig. 6

SWITCH

To turn the tool on, squeeze the trigger switch. To turn the tool off, release the trigger switch (see Fig. 7).

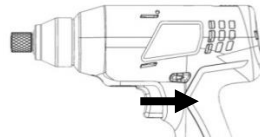


Fig. 7

FORWARD / REVERSE LEVER

A forward/reverse lever determines the direction of the tool and serves as a lock button.

To select forward rotation, **RELEASE THE SWITCH (A)** and push the forward/reverse lever (B) toward left side of the tool ◀ (see Fig. 8).

To select reverse rotation, **RELEASE THE SWITCH (A)** and push the forward/reverse lever (B) toward right side of the tool ▶ (see Fig. 8).

The center position of the lever locks the tool in the off position.

NOTE: When changing the position of the lever, make sure the trigger is released.

NOTE: Move the lever to the center position when the tool is not in use.

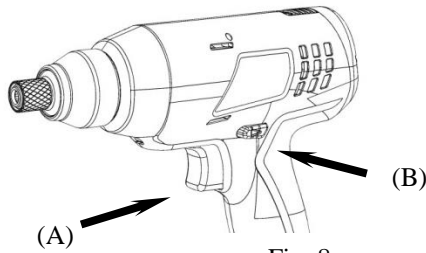


Fig. 8

INSTALLING THE BIT INTO THE HEX SHANK

1. Pull out the quick connect sleeve (see Fig. 9A).
2. Insert bit into the hex shank and release the sleeve to retain the bit (see Fig. 9B).

NOTE: The quick connect sleeve is designed for 1/4" (6.35 mm) bits with a nominal shaft length of 3/8" (9.5mm) (see Fig. 10). Use of other bits may not be properly retained.

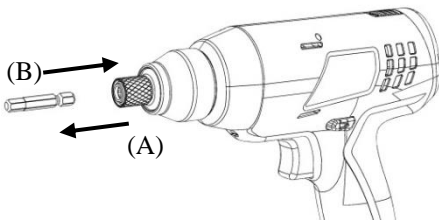


Fig. 9

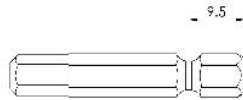


Fig. 10

BATTERY POWER INDICATOR

Tool display screen shows battery level (see Fig. 11A). It may also be checked by pressing the Battery Status button (see Fig. 11B).

1. One light ON: 30% remaining capacity.
2. Two lights ON: 60% remaining capacity.
3. All lights ON: 100% remaining capacity.

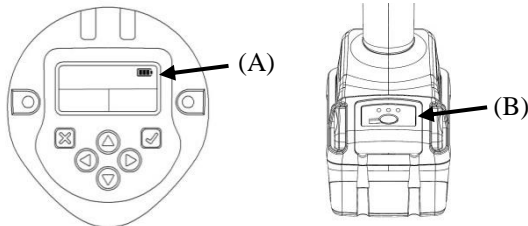


Fig. 11

STATUS LED INDICATION

There are 2 LEDs atop the display screen. The status of LEDs shall be used as follows:
 Green – The last tightening cycle ended between its high & low limits with beep sound.
 Red – The last tightening cycle ended outside of its limits with beep sound.
 Red/Green blink – The tool set in reverse direction.

TORQUE CALIBRATION

The user may calibrate the tool coefficient value from 80% to 120% to comply with the torque tester. The default is 100%.
 Press **✓** to enter EDIT mode. Press **▲/▼** to adjust the compensation value. Press **✕** to SAVE and EXIT.



Fig. 12

TROUBLESHOOTING

Check the following before contacting technical support.

Code	Description	Troubleshooting	Code	Description	Troubleshooting
E001	Over current	Detach and reinstall battery	E008	Motor overheating	Cool tool down
E002	Low Battery	Change battery	E009	Strain gauge fault	Call service centre
E003	Battery overheating	Cool down or change battery	E010	Abnormal memory	Call service centre
E004	Battery low temp	Warm up or change battery	E011	Lockout time too long	Make appropriate adjustments
E005	Electric overheating	Cool tool down	E012	Over Torque	Make appropriate adjustments
E006	Electric short	Call service centre	E999	Wrong password	Call service centre if forgot
E007	Motor stall	Detach and reinstall battery			

NOTE

Continuous use in variable speed range is not recommended. It may damage the switch and should be avoided.

MAINTENANCE

WARNING

Remove the battery pack from this tool before cleaning.

NOTE

This tool is lubricated before it leaves the factory. This lubrication should last for the life of the tool. No further lubrication is required.

DANGER

This tool is a precision tool. Disassembly, assembly, adjustment require exclusive jigs, testers, and trained techniques. Incorrect disassembly, reassembly or adjustment can cause not only insufficient power but also accidents. Ask for these services from an authorized service centre. The manufacturer or supplier will not be held liable for any damages caused by factors found to be the cause of faulty use or repair by users or unauthorized service provider.

CLEANING

With the motor running, blow dirt and dust out of all air vents with dry air at least once a week. Wear safety glasses when performing this. Exterior plastic parts may be cleaned with a damp cloth and mild detergent. Do not use solvent to clean these parts.

IMPORTANT

To assure product SAFETY and RELIABILITY, repairs, maintenance, and adjustments should be performed by certified service centres or other qualified service organisations, always using identical replacement parts.

ACCESSORIES

AUXILIARY HANDLE MOUNTING

Mount auxiliary handle on front cover. Hand tighten.

PROTECTING THE ENVIRONMENT

Before disposing of damaged, check with your state Environmental Protection Agency to find out about special restrictions on the disposal of tool or return them to a certified service centre for recycling.



For customer or technical support, call (847) 455-8677
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E-mail: CustomerService@sr torque.com
www.srtorque.com