Operating Manual

for Battery Torque Wrench

WEDCX series

The torque can be adjusted up to 8000Nm. The WEDCX series battery torque wrench with the latest gearbox design is more powerful and lighter.

WWW.WRENCHINA.COM

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Content

Important safety notice

WREN battery torque wrench is safe and reliable. Failure to follow the precautionary measures and instructions outlined below may result in injury to tools, operators, and personnel present.

WREN is not responsible for any such injury.

The intended use of battery torque wrenches is for commercial and industrial bolt tightening.
Please do not operate the battery torque wrench until you have read and understood this manual and noticed the safety tips displayed in the battery torque wrench system and the entire manual.

Only qualified personnel trained in the safe operation of battery torque wrenches can attempt to install and operate battery torque wrenches.

Digital tool system security

Improper operation and use can cause serious or fatal injuries.

Do not try to disassemble or repair the battery torque wrench, this will invalidate the warranty. If there is a malfunction, damage or the tool does not operate normally, please contact our company.

Technical support (see section 6.0-contact us)

Only store and use battery torque wrenches in a compliant environment. Please refer to Section 1.2.3-Environmental Specifications.

Do not operate an battery torque wrench in a flammable and explosive environment, including but not limited to: flammable liquid, gas or dust. Battery torque wrenches produce sparks that can ignite these substances.

Do not expose the battery torque wrench to a humid environment. Water will damage the battery torque wrench and increase the risk of electric shock.

After a long period of use, the battery torque wrench will heat up. It is recommended to use short and medium time intervals to cool down to prevent operator injury or damage to the battery torque wrench.

During the operation of the battery torque wrench, wear goggles to ensure that the human body is kept away from the contact point between the moving parts of the wrench and the reaction arm.

Do not exceed the maximum torque of the battery torque wrench, which will damage the tool, and no warranty service is provided.

The battery torque wrench has been calibrated. The calibration must be carried out under the guidance of our staff. Improper calibration will reduce the torque accuracy and damage the tools and bolts.

Safety matters of lithium battery pack

This battery torque wrench can only use the supporting lithium battery pack. Using other batteries will damage the tool.

Lithium battery packs can only be charged on the matching battery charger. If you use an incompatible charger, it will cause damage to the lithium battery.

Keep the lithium battery pack away from any metal objects. If metal objects come into contact with the battery, it will short-circuit the battery and cause injury to the operator and the battery.

Do not expose the lithium battery pack to a humid environment, as this will cause damage to the lithium battery and increase the risk of electric shock.

Do not use defective or deformed lithium batteries. Do not try to open the battery, do not short-circuit the battery, otherwise it will damage the battery and the operator.

If liquid comes out of the battery, avoid contact. Once in contact, rinse immediately with water. If it gets into eyes accidentally, rinse immediately with water and seek medical attention. Liquid from the battery may cause irritation or burns.
The battery pack cannot be disposed of with conventional waste products. Please contact us or your dealer to return the battery.

1. General information

WEDCX series battery torque wrenches are used in working environments with limited power and air supply, with high power, wide application and strong reliability. The latest single/double speed gearbox design is applied, with stronger functions and lighter weight.

The torque is adjustable up to 8000Nm.

1.1 System Components

- Gearbox Assembly
- 18V/5.2AmpLithiumBatteryPack
- Battery Charger
- Reaction Arm and Circlip
- Operating Manual
- Tool Box

Note: Additional parts may be delivered with the battery torque wrench

1.2 Detailed Description

1.2.1 Torque Range

Tool	Square Drive	Torque(Nm)		Rotating speed
Type	inch	Min	Max	RPM
WED07CX	¾″	170	700	13
WED14CX	¾″	300	1400	6
WED20CX	1″	400	2000	4
WED40CX	1″	800	4000	2
WED70CX	1.5″	1350	7000	2
WED80CX	1.5″	1500	8000	1.7

Precision ±5%，Repeat accuracy ±3%

1.2.2 Battery Description

When using an battery torque wrench, please confirm that all batteries meet the following specifications.

Battery Output	
Voltage	18 VDC
Current	30 A
Charging Time	60 min
Charger Voltage	
Input	115 VAC/230 VAC
Output	12 - 18 VAC
Charger output current	2.5 A

Sheet1.2.2：Battery Description

1.2.3 Environmental Description

Notice! The battery torque wrench can only be used if it meets the following storage environment and operating specifications.

Temperature Range	° C	° F
Working Temperature	0-35	32-95
Charging Temperature	0-50	32-122
Contributing Temperature	-25-70	-13-158
Humidity	10% to 90% Without Cooling	
Impact	10G , DIN IEC 68-2-6/29	
Shock	1G, 10-150Hz DIN IEC 68-2-6/29	
Required Operating Conditions	– Non-flammable gas environment – Dry place	

Sheet1.2.3：Environmental Description

2.Battery Torque Wrench

The following is an overview of the battery torque wrench, display, battery pack and charger.

2.1 Overview of the Battery Torque Wrench

Battery Torque Wrench（Drawing2.1-1）Activated by the positive and negative switch trigger. The battery pack is installed at the bottom of the handle.

1. Trigger lock-control the direction of rotation and prevent accidental triggering.
2. Trigger- trigger switch
3. Lithium battery pack-see section 2.3-Lithium battery pack
4. Battery release button-refer to 2.3.1-insert/remove lithium battery pack.
5. LCD screen-status display, menu access and control

Figure 2.1-1：Battery Torque Wrench

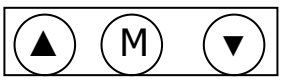
2.1.1 Trigger Lock

The trigger lock is only used when the motor stops running. The trigger lock can control the forward and reverse rotation of the motor and disable the trigger. It is recommended to adjust the trigger lock to the locked position when the wrench is not used.

Right side	=	tight
Left side	=	loosen
In the middle	=	locked

2.2 Screen Guide

The buttons are located at the bottom of the screen. Contains "▲", "▼", and "M" three buttons. The "▲" and "▼" keys are used for menu navigation and value increase or decrease. The "M" key is used to confirm options and enter.



Drawing2.2-1：Display Screen and buttons

Note: When pressing the button, keep pressing for one second to ensure that the button is activated.

2.3 Lithium Battery Pack

Notice! Battery torque wrenches can only use the matching lithium battery pack. Using other batteries will damage them and cause personal injury.

Keep the lithium battery pack away from any metal objects. If a metal object is used to connect the battery, it will short-circuit the battery and cause injury to the operator and the battery.

The lithium battery powers the battery torque wrench motor and the liquid crystal display. In order for the battery torque wrench to be in the best working condition, confirm that the battery is fully charged and in good condition before use. Under optimal conditions, the battery can cycle approximately 100 feet of torque at 50% of the maximum torque.

Note: Operating torque, battery condition, aging degree and operating temperature will affect the actual torque cycle times.

2.3.1 Insert and remove the lithium battery

Insert lithium battery：

1. Confirm that the trigger is in the off position.
2. Align the battery with the slot at the bottom of the handle.
3. Slide the battery into place.
4. Test whether the battery is in place and try to slide its position.

Remove the lithium battery:

1. Press the battery release button.
2. Slide the battery out from under the handle.

2.3.2 Check Charging

Check Battery Charging

1. Press the red "charge" button of the battery

The four green indicator lights will light up. If all the indicators are on, the battery is fully charged. If no indicator light is on, the battery is exhausted and needs to be charged. (Refer to 2.1.1-Battery charging)

2.4 Battery Charger

Notice! Lithium battery packs can only be charged on the matching battery charger. If you use an incompatible charger, it will cause damage to the lithium battery.

The charging status of the battery charger is used to remind the operator that it is charging, charging is complete or there is a fault.

2.4.1 Battery Charging

Note: The charging temperature range

is 0℃-50℃ (32℉-122℉) charging:

1.1. Insert the charger plug into the socket. The red warning light is on for one second and the green status indicator is on for one second

2.2. Align the battery with the charger card slot.

3.3. Slide the battery into place.

4.Note: When charging, the green status light will flash.

When the battery is fully charged, the green status light will stop flashing and stay on. Before removing the battery, the charger will switch to the hold mode to ensure that the battery has the maximum power.

Remove the battery

1. 1. Slide the battery out of the charger.
2. 2. Check whether the battery is fully charged.
   (Refer to 2.3.2: Check charging)

2.4.2 Charging Error

The red warning light is always on:

The battery is not charged because its temperature is not within the charging temperature range. When the battery temperature is within the required range, the red warning light will turn off and charging will begin.

The red warning light flashes:

The battery may not be in the correct position on the charger. Remove the battery and insert it again. If the red warning light continues to flash, it means that the battery is defective, and immediately remove the battery.

If the problem persists, contact our WREN for technical support (refer to 6.0-Contact Us) or contact your dealer.

3.0 LCD Display caution

The LCD display screen may be damaged when it is subjected to mechanical shock or any force applied to the module.

The LCD display can be damaged by humidity, water and high temperature. Such situations should be avoided. Wipe it clean and keep it dry during the storing

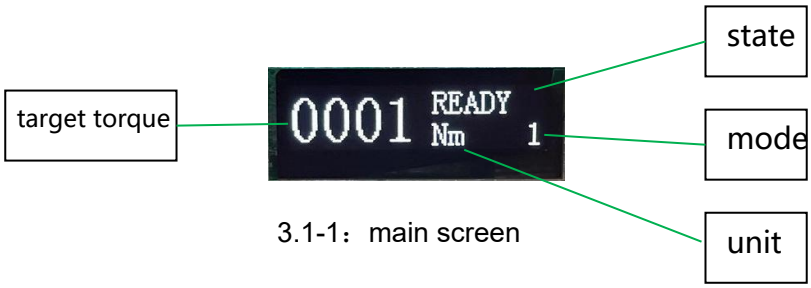
.

The digital controller contains a LCD screen. This screen has many functions. The following describes some of the functions and how to operate them.

Refer to 2.2-Screen Navigation to understand the key usage methods mentioned in this section.

3.1 Main screen

The main screen serves as the battery torque wrench control center. Displays target torque, torque unit.



3.1-1：main screen

3.1.1 Torque

Different modes have different definitions：

mode1：show torque

mode2：show speed

mode3：value switch

“▲”increasing the value，one click +1，holding +10，long holding +100

“▼”decreasing the value，one click +1，holding +10，long holding +100

3.1.2 Working state

2 working states：“RUN” and “READY”

RUN:Runningstatus,pressthetriggertoshowRUN

READY:shutdown for stand-by

3.1.3 Unit

different units in different models

mode1：

Nm、Ftlbs、KGFM。 mode

2：Grade。

mode3：Nm。

3.1.4 Mode

3 modes：1、2、3。

You can set the buzzer notification function on this screen, .

3.2 Mode setting

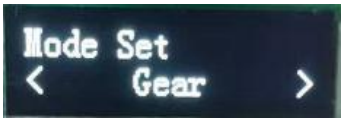
Press M to enter the main menu. Press“▲”“ ▼”to switch the mode,press“ M”to confirm the choice and back to main menu。

3.2.1 Increase/decrease the torque

“▲”“ ▼”can increase or decrease the torque，unit can be choosen

3.2.2 Speed switch

Divide the torque range into 0-99 grades, unit in Gradeonly



3.2.3 Default switching

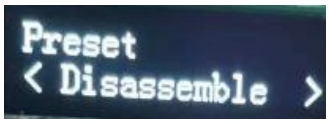
Press "▲" and "▼" to select the preset value, and press "M" to enter the editing of the preset value.

3.3 Preset

The prest value interface defines the disassembly value, preset value, and number of cycles.

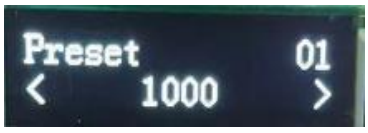
3.3.1 Disassembly value

Disassembly value is locked on the maximum torque and is non-editable.



3.3.2 Preset

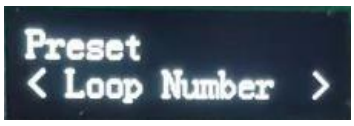
Using the "▲" and "▼" to select the corresponding preset value, press "M" to enter the editing mode, and holding "M" to exit the interface after setting

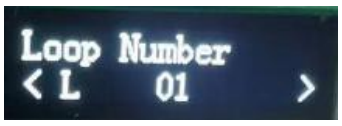


Caution！ Note: The preset value is in Nm only and cannot be set to exceed the maximum rated torque!

3.3.3 Cycle number

The number of cycles ranges from 01 to 10. Holding M to exit this screen, .





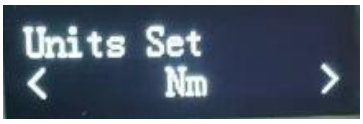
Note: In mode 3, the preset number of work interface cycles is the same as this.

3.3.3 Quit

Press“ M”to back to the main menu

3.4 Unit setting

Enter the unit setting function, press“ M”to enter the unit setting , press“▲”“ ▼”to choose the unit, press “ M”for confirmation and back to the main menu.

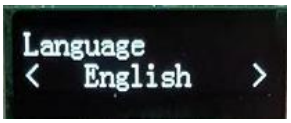


3.5 About the machine

All kinds of information about the machine can be queried in the menu ,including serial number, maximum torque, minimum torque, model, factory date, use times.

3.6 Chinese/English switch

Switch Chinese/English in this mode



3.7 Calibration

Caution All Settings on this mode must be performed under the guidance of engineers of our company. Generally, users do not need to use this mode. Enter a six-digit password to enter the calibration mode.

3.7.1 Calibration

Contact us

3.7.2 Maximum/Minimum torque

4. General operating instructions

Caution Only trained and qualified personnel can operate this tool. This section describes how to use the reaction arm.

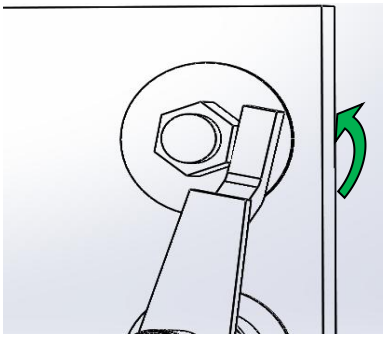
4.1 Reaction arm

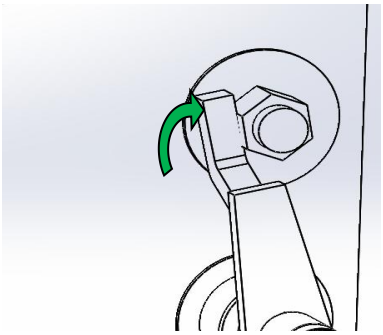
Caution! Always keep your body away from the moving part and reaction arm of the battery torque wrench when using it. Otherwise could cause serious harm.

Make sure the reaction arm is firmly connected with the flange before operating the battery torque wrench.

4.1.1 Installation of the reaction arm

Make sure the reaction arm and circlip are securely installed together before operating the battery torque wrench, ensure that the reaction arm is in contact with a rigid contact point. Keep your body away from the reaction arm when using the tool.





Clockwise Counterclockwise

Caution! **Keep your body away from the reaction arm when using the tool.**

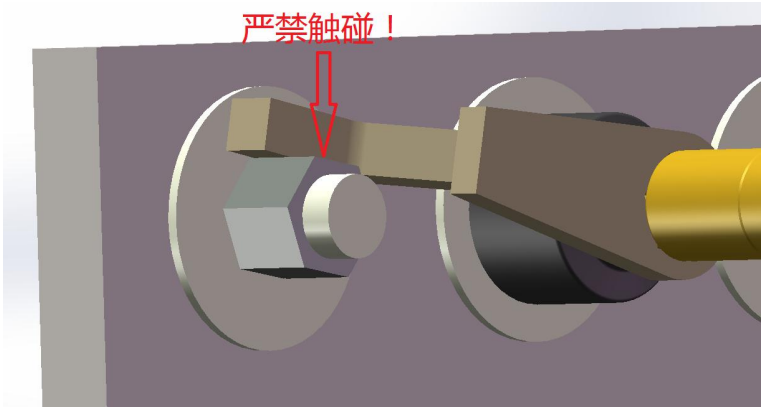


Figure 4.1.1-2：forbidden to touch

4.1.2 Height of Reaction Arm

Confirm that the highest point of the socket is consistent with the highest point of the reaction arm, as shown in Figure 4.1.2-1. The highest point of the reaction arm cannot be higher or lower than the highest point of the socket, as shown in Figure 4.1.2-2. Correct: The reaction arm is at the same level as the socket.

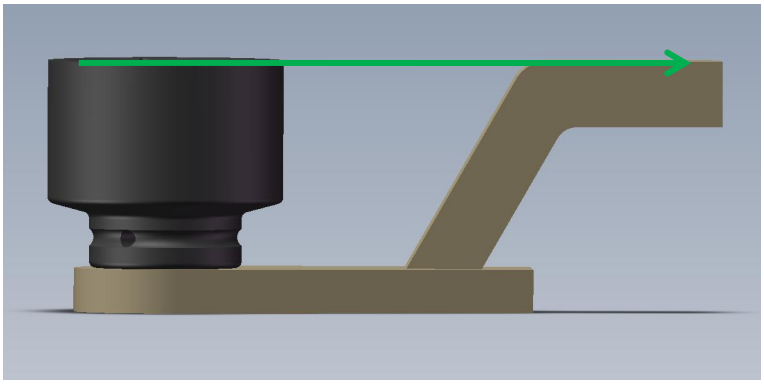


Figure 4.1.2-1：Correct Height

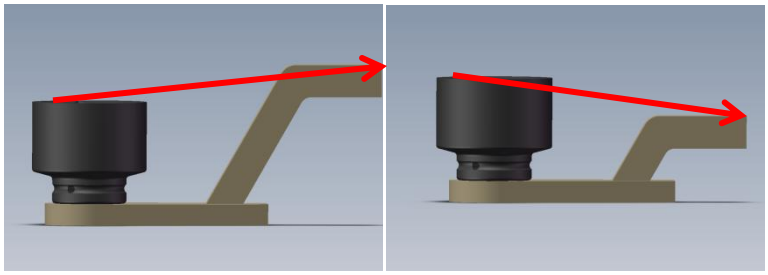


Figure 4.1.2-1：Error Height

Error：The reaction arm arm length is too short or too long. Improper use of the reaction arm will void the warranty and cause premature failure of the battery torque wrench.

4.1.3 Reaction Arm

Confirm that the reaction arm is aligned with the nut, as shown in Figure 4.1.3-1. The reaction arm cannot be longer or shorter than the nut, as shown in Figure 4.1.3-2

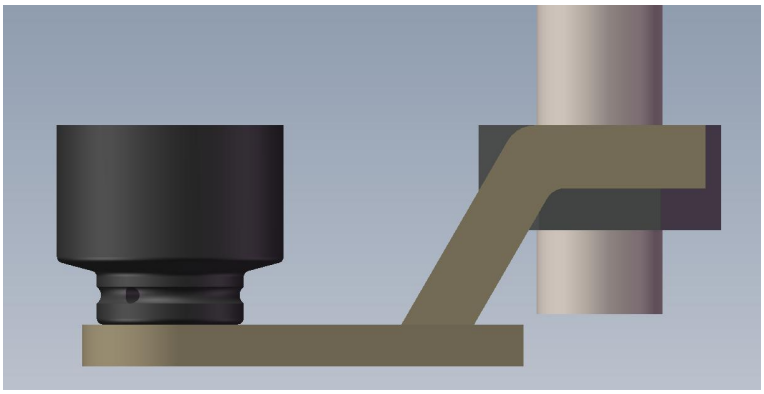


Figure 4.1.3-1：Right length

Error：The reaction arm is too long or too short.

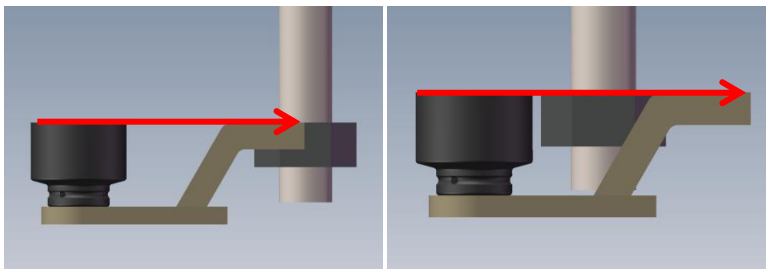


Figure 4.1.3-2: Error length

Contact WREN factory or distributor to customize the reaction arm。

4.1.4 Touching Point

Confirm that the reaction point is in contact with the middle of the reaction arm foot。see drawing4.1.4-2.Do not touch the back of the reaction arm foot. Right: The reaction point is touching the middle of the reaction arm.

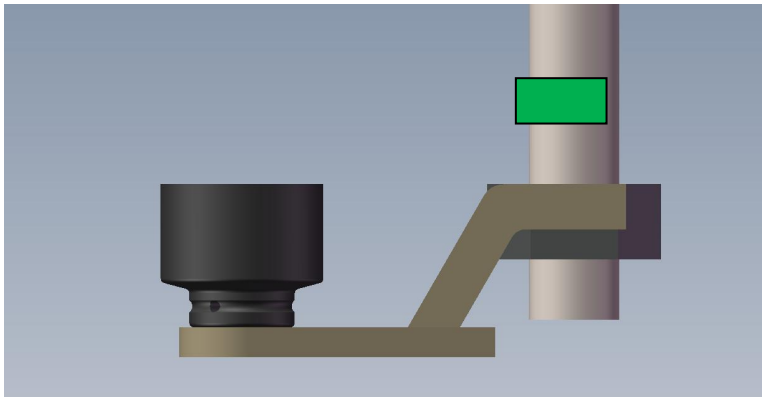


Figure 4.1.4-1: Right touching point

Wrong Operaion：Reaction point is at the position showed in below Figure 4.1.4-2

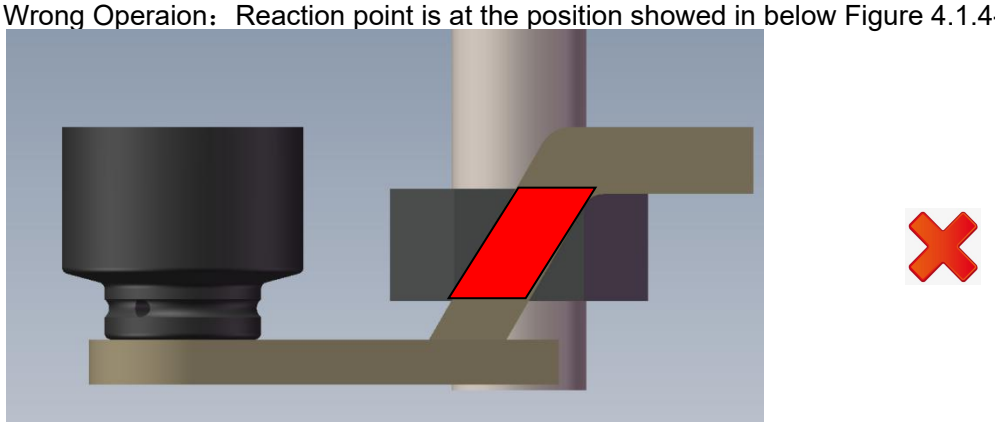


Figure 4.1.4-2: Error touching point

4.2 Operating Procedure

Torque Operation：

1. Fix the reaction arm to the battery torque wrench with a circlip.
2. Set target torque value by key“▲”“ ▼”
3. Put socket on square drive of battery torque wrench。
4. Turn on the switches for clockwise operation or counterclockwise operation at corresponding position.
5. Press the operating trigger and hold.

Note: If you want to stop at any time, just release the trigger.

After reaching the target torque, the tool will automatically stop, then release the trigger. After 3 minutes without any operation, the tool will automatically enter the sleep mode and save the parameters of the last operation. Press the trigger again to wake up the tool.。

5.Message reminder

Reminder for right operation

When the buzzer is turned on, it has a reminder function. The buzzer will sound once when the tool is working: the operation is successful.

Reminder for error operation

- The buzzer sounds 4 times continuously, and the display shows an error message: The tool cannot reach the target torque value.
- The buzzer keeps ringing and the screen displays an error message: The tool exceeds the maximum current or the torque exceeds the maximum value.
- The buzzer sounds intermittently and the screen displays a low battery prompt: battery current is too low, stop operation immediately and replace the battery.

6. Contact us

Hangzhou WREN Hydraulic Equipment Manufacturing Co., Ltd

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电动扭矩扳手使用手册

WED 优选系列

扭矩可调，最大可达 8000Nm，应用最新齿轮箱设计的 WEDCX 充电系列功能更加强大，重量更轻。

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雷恩液压设备制造有限公司
中国 杭州

目录

重要安全注意

雷恩电动扭矩扳手安全可靠。不遵循以下预防措施和说明概述可能会伤害工具、操作者及在场人员。

雷恩公司对任何此类伤害不负任何责任。

数字工具系统安全

电动扭矩扳手的预期用途是用于商业和工业螺栓紧固。

在阅读和理解本使用手册并注意到电动扭矩扳手系统及整个手册中显示的安全提示之前，请不要操作电动扭矩扳手。

只有经过电动扭矩扳手安全操作培训的合格人员才能尝试安装、操作电动扳手。

电动扳手连接高压电源，由外部部件组成。不适当的操作和使用会造成严重或致命的伤害。

不要尝试拆卸或修理电动扭矩扳手，这会导致保修无效。如果发生故障，损坏或工具不能正常操作，请联系本公司。

技术支持（参见 6.0 节-联系我们）

仅在符合的环境中储存和使用电动扭矩扳手。请参阅 1.2.3 节-环境规范。

不要在易燃易爆环境中操作电动扭矩扳手，包括但不限于：易燃液体、气体或粉尘。电动扭矩扳手产生火花可以点燃这些物质。

不要将电动扭矩扳手暴露在潮湿的环境中。水会造成电动扭矩扳手损坏，增加触电的风险。

长时间使用后，电动扭矩扳手将发热。推荐使用中短时间间隔冷却，以防止操作人员受伤或电动扭矩扳手损坏。

操作电动扭矩扳手的过程中，佩戴护目镜，保证人体远离扳手运动部件和反力臂的接触点。

不要超过电动扭矩扳手的最大扭矩，这将损坏工具，且不提供保修服务。

电动扭矩扳手已校准，校准必须在我司人员指导下进行，校准不当将降低扭矩精度，和损坏工具与螺栓。

锂电池组的安全事项

本电动扭矩扳手只能使用配套锂电池组。使用其它电池将损坏电动扭矩扳手。

锂电池组只能在配套电池充电器上充电。如果使用不兼容的充电器，会对锂电池造成损坏。

保持锂电池组远离任何金属物体。如果让金属物体接触电池，会使电池短路，对操作人员和电池造成伤害。

不要将锂电池组暴露在潮湿环境中，这会对锂电池造成损害，增加触电风险。

不要使用有故障或变形的锂电池。不要尝试打开电池，不要将电池短路，否则将损害电池及操作人员。

如果有液体从电池中流出来，避免接触。一旦接触，立即用水冲洗。如果不慎入眼，立即用水冲洗并及时就医。来自电池的液体可能会引起刺激或烧伤。

电池组不能与常规废品一起处置，退换电池请联系我们或您的经销商。

1.0 一般信息

WEDCX 系列电动扭矩扳手用于电源和气源受限的工作环境，功率高，应用广，可靠性强。应用了最新的单/双速齿轮箱设计，功能更强，重量更轻。

扭矩可调，最大可达 8000Nm。

1.1 系统组件

- 电动工具枪
- 两块 18V/5.2Amp 锂电池组
- 电池充电器
- 反力臂和卡簧
- 使用手册
- 防水工具箱

注：可能会随电动扭矩扳手一起配送额外的零件

1.2 详细说明

1.2.1 扭矩范围

电动扭矩扳手扭矩范围

工具	方驱尺寸	扭矩(Nm)		转速
型号	英寸	最小	最大	RPM
WED07CX	¾″	170	700	13
WED14CX	¾″	300	1400	6
WED20CX	1″	400	2000	4
WED40CX	1″	800	4000	2
WED70CX	1.5″	1350	7000	2
WED80CX	1.5″	1500	8000	1.7

精度±5%，重复精度±3%

1.2.2 电池说明

使用电动扭矩扳手时，确认所有电池符合以下规格。

电池输出	
电压	18 VDC
电流	30 A
充电时长	60 min
充电器电压	
输入	115 VAC/230 VAC
输出	12 - 18 VAC
充电器输出电流	2.5 A

表 1.2.2：电池说明

1.2.3 环境说明

注意！ 只有符合以下储存环境及操作规范的情况下，才能使用电动扭矩扳手。

温度范围	° C	° F
工作温度	0-35	32-95
充电温度	0-50	32-122
储存温度	-25-70	-13-158
湿度	10%到 90%无冷凝	
冲击	10G ， DIN IEC 68-2-6/29	
震动	1G，10-150Hz DIN IEC 68-2-6/29	
所需操作条件	- 非易燃气体环境 - 干燥处	

表 1.2.3：环境说明

2.0 电动扭矩扳手

以下内容为电动工具枪，显示屏，电池组和充电器的概述。

2.1 电动工具枪

电动扭矩扳手（图 2.1-1）由正反开关触发激活。电池组安装在手柄底部。

1. 触发锁-控制转动方向和防扳机误触。
2. 扳机-电动枪触发开关
3. 锂电池组-参阅 2.3 节-锂电池组
4. 电池释放按钮-参阅 2.3.1-插入/取出锂电池组
5. LCD 屏-状态显示，菜单访问和控制

图 2.1-1：电动扭矩扳手

2.1.1 触发锁

触发锁仅在电机停止运行时使用。触发锁可以控制电机正反转和使扳机失效，建议在不使用扳手时将触发锁调到锁定位置。

右侧设置 = 紧固

左侧设置 = 旋松

中间设置 = 锁定

2.2 屏幕导航

按键位于屏幕下方。包含“▲”、“ ▼”、“M”三个按键。“▲”“▼”键用于菜单导航及数值增减。“ M”键用于确认选项和进入。

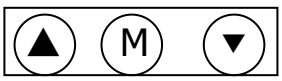


图 2.2-1：显示屏及按键

注：当按下按键时，需保持按压一秒钟，以保证按键被激活。

2.3 锂电池组

注意！ 电动扭矩扳手只能使用配套锂电池组。使用其它电池将致其损坏，和造成人身伤害。

保持锂电池组远离任何金属物体。如果用金属物体连接电池，会使电池短路，对操作人员和电池造成伤害。

该锂电池为电动扭矩扳手电机和液晶显示器供电。为了电动扭矩扳手处于最佳工作状态，使用前确认电池充满电并处于良好状态。在最佳条件下，电池能够为以最大扭矩的 50%进行大约 100 尺扭矩循环。

注：工作扭矩、电池状况、老化程度和操作温度会影响实际扭矩循环次数。

2.3.1 插入和取出锂电池

插入锂电池：

1. 确认扳机处于关闭位置。
2. 将电池对准手柄底部卡槽。
3. 滑动电池到位。
4. 测试电池是否到位，试着滑动它的位置。

拆卸锂电池：

1. 按下电池释放按钮。
2. 将电池从手柄下方滑出。

2.3.2 检查充电

检查电池充电

1.按下电池的红色“充电”按钮

四颗绿色指示灯会点亮。如果所有指示灯亮，则电池充满。若没有指示灯亮，则电量已耗尽，需要充电。（参阅 2.1.1-电池充电）

2.4 电池充电器

注意！ 锂电池组只能在配套电池充电器上充电。如果使用不兼容的充电器，会对锂电池造成损害。

电池充电器的充电状态用于提示操作人员正在充电，充电完成或存在故障。

2.4.1 电池充电

注：充电温度范围为 0℃-50℃(32℉-122℉)

充电：

1.将充电器插头插入插座。红色警示灯亮一秒绿色状态显示灯亮一秒

2.将电池与充电器卡槽对准。

3.滑动电池到位。

注：充电时，绿色状态灯会闪烁。

当电池充满电后，绿色状态灯会停止闪烁并保持常亮。在取下电池前，充电器将转为保持模式，以保证电池为最大电量。

拆卸电池

1.将电池滑出充电器。

2.检查电量是否充满。（参阅 2.3.2：检查充电）

2.4.2 充电错误

红色警示灯常亮：

电池没有充电是因为它的温度不在充电温度范围内。当电池温度在要求范围内时，红色警告灯会关闭，充电开始。

红色警示灯闪烁：

电池插在充电器上的位置可能不正确。取下电池重新插入。如果红色警示灯继续闪烁，则表示电池有缺陷，立即取下电池。

如果问题仍然存在，联系本公司获取技术支持（参阅 6.0-联系我们）或与你的经销商联系。

3.0 LCD 显示界面

注意 LCD 显示屏在受到机械冲击或任何加在模块上的力时都可能损坏。

LCD 显示屏会因潮湿、水和高温损坏。应避免这样的情况。存放时，擦拭干净和保持干燥。

数字控制器包含一个 LCD 显示屏，这个简单的显示屏有很多功能，下面介绍部分功能和怎样操作它们。

参阅 2.2-屏幕导航以了解本节提到的按键使用方法。

3.1 主屏幕

主屏幕作为电动扭矩扳手控制中心。显示目标扭矩，扭矩单位。

图 3.1-1：主屏幕

3.1.1 扭矩数值

根据模式选择有不同的含义：

模式 1：显示扭矩数值。

模式 2：显示档位。

模式 3：预设值切换。

“▲”键增大扭矩数值，单击扭矩数值+1，稍长按+10，长按+100。

“▼”键减小扭矩数值，单击扭矩数值-1，稍长按-10，长按-100。

3.1.2 工作状态

工作状态分两种：“RUN”和“READY”

RUN:运行状态，按下扳机显示 RUN

READY:其余停机准备状态。

3.1.3 单位

不同模式下可选择的单位

模式 1：Nm、Ftlbs、KGFM。

模式 2：Grade。

模式 3：Nm。

3.1.4 模式

三种模式：1、2、3。

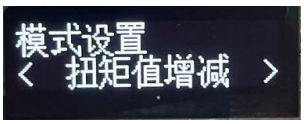
此界面可以设置蜂鸣器的提醒功能。

3.2 模式设置

在主界面按下“ M”进入主菜单。通过按下“▲”“ ▼”切换需要的模式。按下“ M”确认选择，返回主菜单界面。

3.2.1 扭矩值增减

“▲”“ ▼”键可增减扭矩值，单位 Nm 可选。



3.2.2 档位切换

将扭矩范围分成 0-99 档，单位为 Grade 不可选

3.2.3 预设值切换

循环切换预设值，单位 Nm 不可选，循环预设值个数可选，通过按下“▲”“ ▼”选择预设值，按下“ M”进入预设值编辑。

3.3 预设置

预设值界面下定义拆卸值，预设值，循环个数。

3.3.1 拆卸值

拆卸值可用扭矩的最大值，不可编辑。

3.3.2 预设值

通过“▲”“ ▼”键选择对应的预设值，按下“ M”，数值高亮，进入编辑模式，长按“ M”可退出此界面

警告！ **注**：预设值单位只能是 Nm，不能设置超过最大额定扭矩！

3.3.3 循环个数

循环个数可选 01-10，长按“ M”可退出此界面。

注：与模式 3 下，工作界面循环的预设值个数与此相同。

3.3.3 退出

按下“ M”退回主菜单界面。

3.4 单位设置

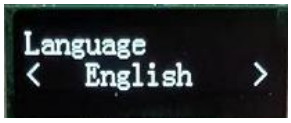
在主菜单单位设置下按“ M”进入单位设置。通过“▲”“ ▼”键选择需要的单位，再次按下“ M”选定并退回主菜单。

3.5 关于本机

在关于本机菜单中可查询本机的各种信息，包括序列号、最大扭矩、最小扭矩、型号、出厂日期、使用次数。

3.6 中英切换

此界面可切换中英文显示。



3.7 校准

注意 该界面下所有设置均需在本公司工程师指导下进行，一般情况下用户无需使用。进入校准界面需输入 6 位密码。

3.7.1 校准

联系本公司

3.7.2 最大值最小值

联系本公司

4.0 通用操作说明

警告 只有经过培训的合格人员才能才能操作此工具。

本节介绍操作人员在需要使用反力臂时如何进行力矩循环。

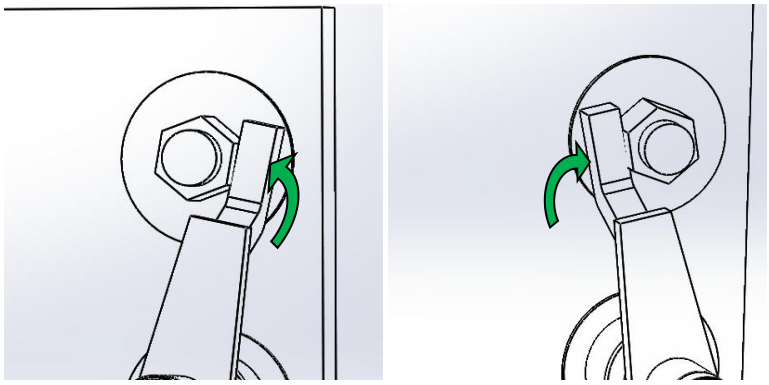
4.1 反力臂

警告！ 当使用电动扭矩扳手时，请始终保持身体部位远离电动扭矩扳手运动部件和反力臂。否则可能带来严重的伤害。

操作电动扭矩扳手前，确认反力臂有一个坚实的接触点。

4.1.1 反力臂的安装

确认反力臂和卡簧安装牢固，以固定反力臂。操作电动扭矩扳手前，确认反力臂接触到刚性接触点。使用工具时，保持身体部位远离反力臂。



顺时针操作　　逆时针操作

图 4.1.1-1-反力臂的安装

警告！ 操作过程中，保持手和身体部位远离反力臂和减速器。

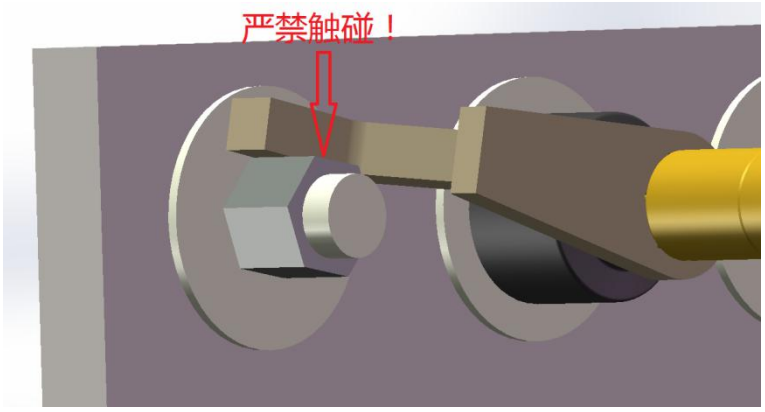


图 4.1.1-2：严禁触碰

4.1.2 反力臂的高度

确认套筒的最高点与反力臂最高点高度一致，如图 4.1.2-1。反力臂的最高点不能高于或低于套筒的最高点，如图 4.1.2-2。

正确：反力臂与套筒在同一水平。

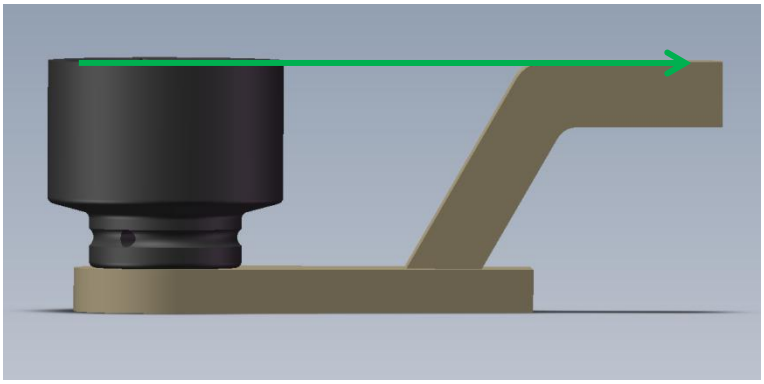


图 4.1.2-1：正确高度

错误：反力臂臂长过短或过长。

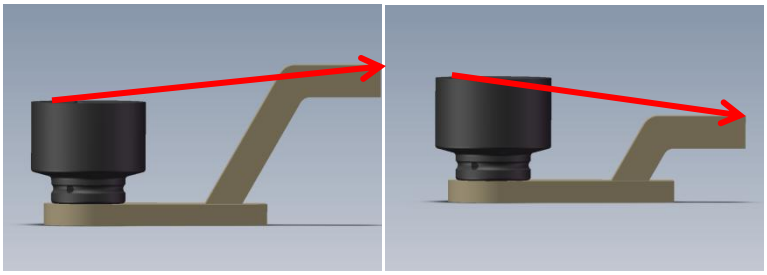


图 4.1.2-1：错误高度

不恰当的使用反力臂将不予质保和导致电动扭矩扳手过早失效。

4.1.3 反力臂

确认反力臂足对齐螺母，如图 4.1.3-1。反力臂足不能长于或短于螺母，如图 4.1.3-2

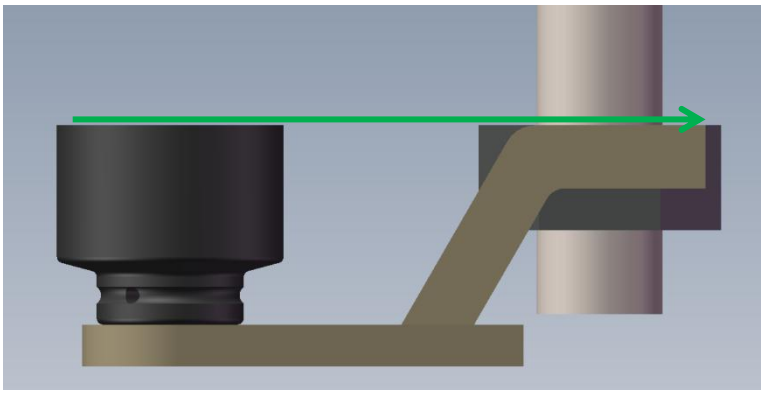


图 4.1.3-1：正确长度

错误：反力臂足过长或过短。

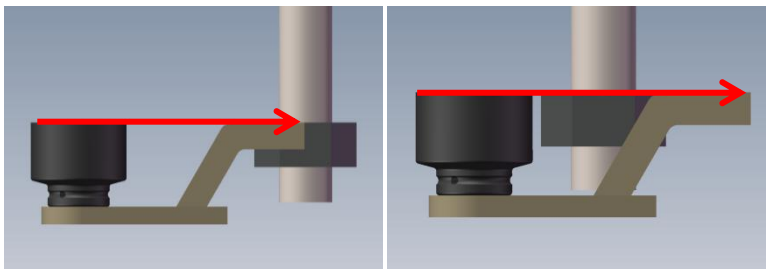


图 4.1.3-2：错误长度

联系雷恩公司或经销商定制反力臂。

4.1.4 接触点

确认反力臂在反力臂足的中部接触。如图 4.1.4-2. 不要在反力臂足的后部接触。

正确：反力臂是在反力臂足的中间接触。

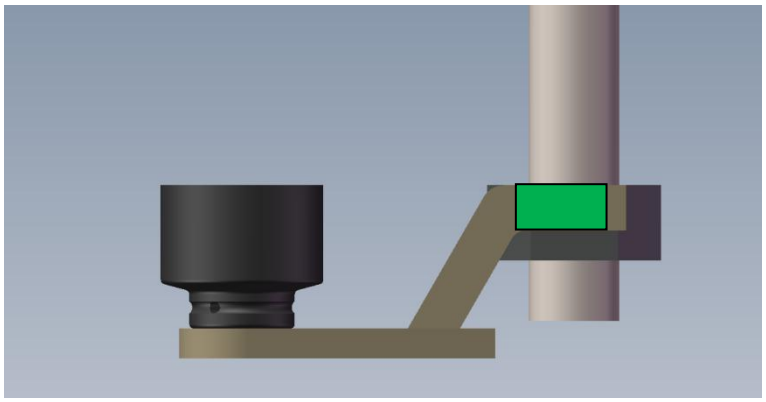


图 4.1.4-1 正确的接触点

错误：反力臂是在反力臂足的后部间接触。会导致工具过早失效。

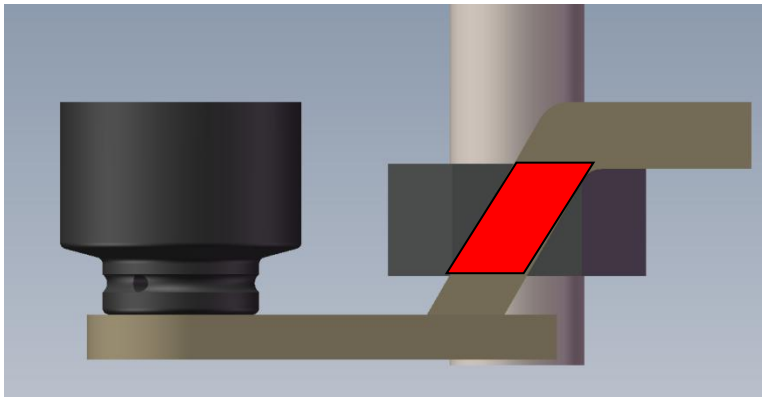


图 4.1.4-2 错误的接触点

4.2 工作流程

操作扭矩循环：

1. 用卡簧将反力臂固定在电动扭矩扳手上。
2. 通过“▲”“ ▼”键设置目标扭矩值。
3. 将电动扭矩扳手的输出轴插入套筒四方。
4. 使正/反转开关处于处于对应位置。
5. 按下并按住扳机。

注：任何时候要想停止，松开扳机即可。

达到目标扭矩后，工具将自动停止，再松开扳机，无任何操作 3 分后，扭矩扳手自动进入休眠模式，保存最后一次操作的参数。再次按下扳机可唤醒扭矩扳手。

5.0 错误

当蜂鸣器开启时具有提醒功能，扭矩扳手工作中

蜂鸣器响一次：操作成功。

- 蜂鸣器连续响 4 下,显示屏显示错误信息：扭矩扳手不能到达目标扭矩值。
- 蜂鸣器一直响，屏幕显示错误信息：扭矩扳手超过最大电流或扭矩超过最大值。
- 蜂鸣器断续响，屏幕显示低电量提示：电池电流过低，应立即停止操作，更换电池。

6.0 联系我们

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