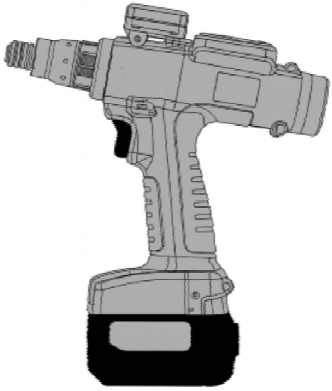
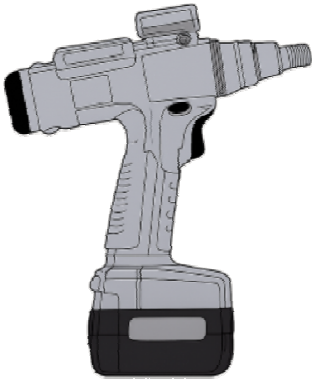
OPERATION AND MAINTENANCE MANUAL

SKC-MTCS505
SKC-MTCS512





SKC-MTCS303
SKC-MTCS303F
SKC-MTCS305

Rechargeable -TYPE Automatic Brushless Series

KILEWS INDUSTRIAL CO.， LTD.

https://www.kilews.com.tw

20260203
Y2F244A-1-001

Before you use the Cordless Screwdriver for the first time, it is essential to read and understand the manual completely (including the spare parts view). The term "Cordless Screwdriver" in all of the warning listed below refers to your main operated appliance.

Icon Instructions

1. Read instruction manual.	
2. Observe caution and safety notes.	
3. Recyclable.	
4. For indoor use only.	
5. Do not expose to wet or rain conditions.	
6. Do not operate in an explosive atmosphere.	
7. Do not disassemble.	
8. Forbid to throw away.	

Accessories

Item	Quantity	Unit
Manual	1	PCS
Guarantee Card	1	PCS
Driver hook	1	PCS
BIT	2	PCS

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I. Warning ⚠

Read all instructions and make sure the appearance of the device has no damage before you use it. Failure to follow all instructions listed below may result in electric shock fire and/or serious injury.

1. Keep the working area nice and clean.
   1.1 Mess and dark areas may cause of accidents.
   1.2 Keep the device away from rain or moisture to decrease the risk of electric shock or short-circuiting occurred.
2. Be alert to workplace safety.
   2.1 Use the device under a well-lit and clean environment.
   2.2 Keep children and other people away unless the person has been assigned for the task to avoid the danger of injury.
   2.3 Do not play around while the tool is being used to avoid the danger of distractions.
   2.4 Do not work with the device in potentially explosive environments in which there are inflammable liquids, gases or dusts. Electrical power tools create sparks, which can ignite dusts or fumes.
   2.5 Do not use the device if you are tired or under the influence of drugs, alcohol or medication.
3. When the devices are not being used, store them in a safe place.
4. Use a suitable device for the job will be safer at work and have a better result.
5. Always use a screwdriver that is intended for the task you are undertaking. Do not overload or use it improperly such as drilling or tapping.
6. Dress properly. Do not wear loose clothing or jewels while operating the tool to avoid the danger of trapping.
7. Please hold the cordless screwdriver carefully before operating and avoid wrong operating method.
8. When operating this rechargeable sensor screwdriver, accessories such as the screwdriver hook, wrist strap, and other related attachments may be utilized to facilitate both usage and storage. Ensure that the product is placed in a location inaccessible to children in order to prevent potential hazards.
9. Look after either the device or the battery carefully and have any damaged parts repaired by an authorized or qualified shop. Always keep the tool nice and clean; pay attention on the machine grease which might ruin the tool.
10. Disconnect the plug from the power source after the charger has been used.
11. Take apart the battery from the device when it is not being used.
12. Use only the accessories that are detailed in the operating instructions. The use of others which are not recommended in the operating instructions may affect the functioning of the device. It could lead to an increased risk of personal injury as well.
13. Remain alert at all times and watch what you are doing during proceeding. Before operation, always check every part is in good condition and move freely in order to function properly.
14. This device only applies for metal screw bits designated with their dimensions and their shape. Do not recommend to countersink or force of loading on any material such as plastic and wooden.
15. The device does not apply for elastic or tensile load with washer on.
16. To prevent parts in gearbox from damage, replace the grease at least once for half a year.
17. It is necessary for operators to read and follow all operating instructions in this manual. KILEWS is not responsible for any personal injury that might cause of disobeying the safety advice.
18. Use a safety device. Wear protective earmuffs to reduce personal injury.

Noise:	Vibration:
The typical A-weighted noise level acc. To EN62841-2-2	The vibration total value acc. EN62841-2-2.
Sound pressure level (LpA): 53.6 dB(A)	Vibration emission value ah (m/s^2): 0.17 m/s^2
Sound power level (LwA): 64.6 dB(A)	Uncertainty K (m/s^2): 0.02 m/s

II. Protective Functions

- Over electric current protection
- Thermal Protector
- Power Cut-off Device
- Battery Voltage Detection
- Prevent from low power
- Stall protection
- Forward/Reverse Two-Position Control Protection

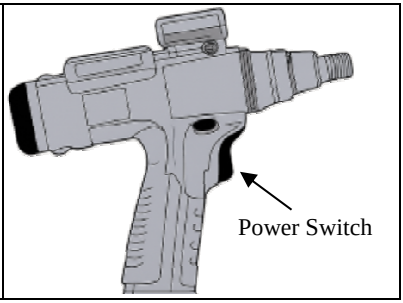
Warning ⚠

Do not attempt to repair or disassemble this cordless screwdriver, the warranty will be considered void.

1. This rechargeable screwdriver maintenance make sure to remove the battery pack before maintaining or repairing the device by a qualified technician.
2. Do not attempt to disassemble or reassemble the device at will which may result in poor performance or danger of injury, the warranty applies only to initial package.
3. Do not repair the device with other than genuine KILEWS replacement parts may result in poor performance or danger of injury, the warranty will be considered void.
4. The temperature between 0∘C ~ 35∘C would be an ideal condition of carrying out the tasks on the device.

III. Operating instructions

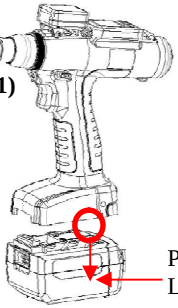
1. Before operating this rechargeable sensor screwdriver, ensure that the battery is fully charged prior to assembly and use. For safety reasons, always power off the device before removing the battery. When installing the battery, avoid touching the activation switch area. ◦



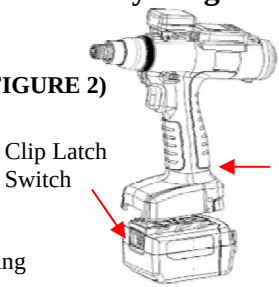
2. Assembly and DisassemblyInstructions for the Rechargeable Screwdriver and Battery:

Disassembly Diagram

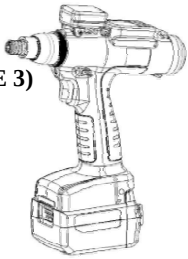
(FIGURE 1)



(FIGURE 2)



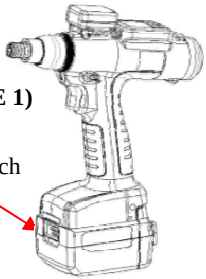
(FIGURE 3)



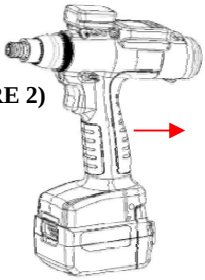
(1) As shown by the circle in Figure 1: After the inverted triangle arrow on the screwdriver is aligned with the positioning line on the Battery, press the screwdriver down with clip latches.
(2) Push the screwdriver as shown in Figure 2 in the direction of Battery clip latch, and you will hear a click, and the Battery clip latches will fasten the screwdriver.
(3) Assembly is completed.

Disassembly Diagram

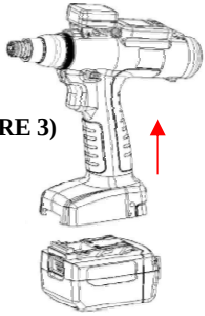
(FIGURE 1)



(FIGURE 2)



(FIGURE 3)



(1) Press and hold the Battery clip latches.
(2) Push the screwdriver all the way to the back.
(3) Then take out the screwdriver and disassemble it.

3. Assembly Instructions for Scanner

1. Remove the scanner.
2. Take out the screwdriver and align the scanner with it.Press point A of the scanner downward into the screw hole at point B on the screwdriver, as shown in Figure 1.
3. Insert and tighten two screws into the screw holes at point B to secure the assembly.
4. Assembly completed as shown in Figure 2

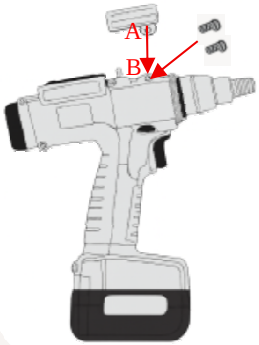


FIGURE 1



FIGURE 2

4. Assembly Instructions for Soft Rubber Protective Cover and Screwdriver



FIGURE 1

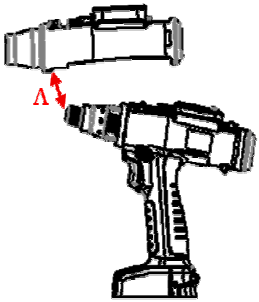


FIGURE 2

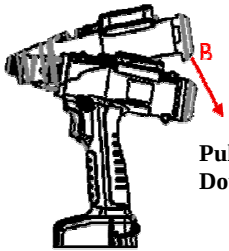


FIGURE 3

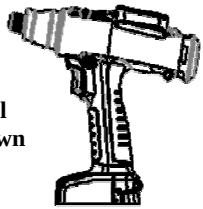


FIGURE 4

1.Remove the protective cover (see Fig. 1).

2.Insert the notch at point A of the soft rubber cover onto the screwdriver head cap (see Fig. 2).

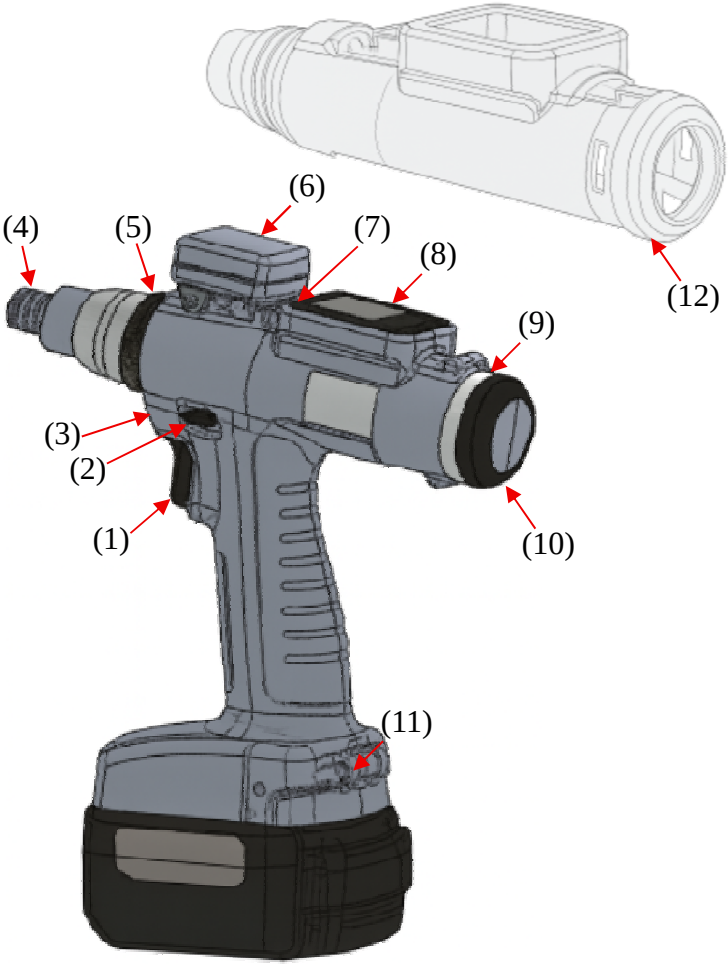
3.While fitting the cover onto the head cap, guide the tail end of the protective cover at point B downward to the right side of the screwdriver (see Fig. 3).

4.Assembly of the screwdriver and protective cover is complete (see Fig. 4).

Notice

This screwdriver must be used with the protective cover properly installed.
If the soft rubber protective cover is not used as specified and product damage occurs, repair costs shall be borne by the customer. The company does not provide warranty service or assume responsibility under such circumstances.

IV. Function Introduction



1. Function Name Comparison Table

Number	Name	Number	Name
(1)	Start trigger	(7)	Screwdriver Hanging Hole
(2)	Forward and reverse switch level	(8)	Display panel
(3)	LED lighting	(9)	Signal display light
(4)	Bit sleeve	(10)	Ring Light
(5)	Front Fastening Ring	(11)	Wrist strap hole
(6)	Handheld Scanner	(12)	Soft Rubber Protective Cover

2. Function Description:

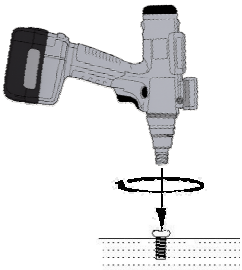
1. This rechargeable sensor screwdriver is a fully automatic model: when the screw is tightened, the screwdriver immediately stops rotating, indicating that the preset torque has been reached. This prevents continuous rotation that could otherwise cause loosening or damage to the fastened component.

(1). Trigger switch

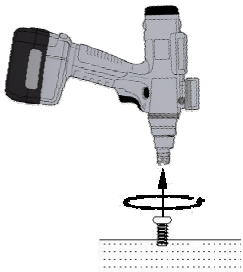
The LED lights on when the trigger switch has been pressed about one-third down, and then the screwdriver starts functioning when the switch trigger has been pressed half way down; on the contrary, it stops when the screw has been tightened up or the trigger has been released.

(2). Forward and reverse switch lever:

When pushing the forward and reverse switch lever to the right, follow the arrow symbol → on the switch for forward, to tighten the screw; otherwise, follow the arrow symbol ← on the switch for reverse, to loosen the screw, as shown in the figures below



Forward
(Lock Screw)



Reverse
(Retract Screw)

(3). LED light

While press the trigger, the LED lights up automatically to assist the job to be done; on the contrary, it will be off once the trigger has been released.

(4). Bit sleeve operation and compatibility:

Pull the cap of the Battery Screwdriver outward, and then load the BIT as shown in the following figures.

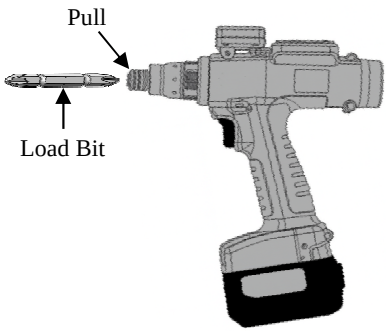
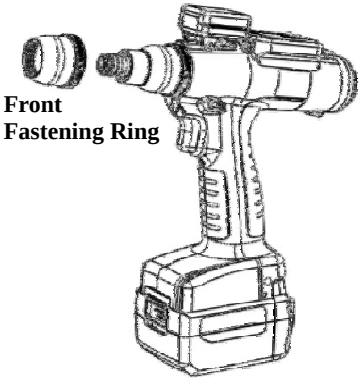
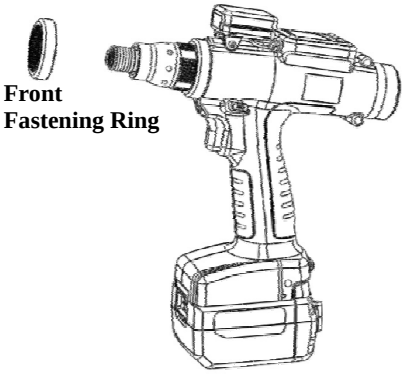


FIGURE 1

(5). **Front Fastening Ring** : Fixed upside-underside housing and clutch.



3 series



5 series

(6). **Scanner:** An optional scanner can be added to enable barcode scanning functionality.

(7). **Screwdriver Hanging Hole:**

It is convenient that the production lines are able to have spring balancers work together with the tools to be more efficiently.

(8). Display panel:

Designed for configuring functional parameters.

(9). **Functional light and the status indicator:**

(10).**Ring Light:** Provides supplementary lighting support.

Status	Alert sound	Operation indicator light		
		Green light	Red light	Blue light
Single unit OK	One short beep	Steady on	OFF	OFF
job completed	One long beep	Steady on	OFF	OFF
Sequence completed	One long beep	Steady on	OFF	OFF
Status abnormal	Three short beeps	OFF	Steady on	OFF
Unscrew	None	OFF	OFF	Steady on
Unit interval time alert	Rapid short beeps	Indicator light follows the result of the previous fastening		OFF
Sequence completion time alert	Continuous short beeps	Indicator light follows the result of the previous fastening		OFF

(11).**Hole for wrist band**

Enable to install the wrist band which is more convenient and safer for users.

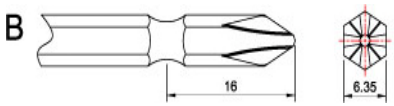
(12).**Soft Rubber Protective Cover:** Provides protection for the screwdriver.

3.Servicing

Maintenance and Inspection:

1. The recommended daily operating time for this transducerized screwdriver is no more than 8 hours to remain a better performance.
   Depending on usage frequency and tool load, it is recommended to apply lubricant to the clutch every 3 to 6 months. Calibration should be performed every one million cycles or at least once a year. For maintenance and calibration, please contact your local distributor.
2. Please note don't let the motor get over heated, please refer to the Working Time from the Technical Specification sheet.
3. Maintenance and servicing of the sensor screwdriver should be carried out at an authorized after-sales service center designated by the company, or arranged through the original dealer to be sent to the local service center.
4. Warranty service will not be provided for any quality defects resulting from repairs carried out by non-authorized service centers or from self-disassembly and repair of the sensor screwdriver.
5. It is the responsibility of the sensor screwdriver management department to ensure that this manual is provided to operators or users for reading. Users must not attempt to repair the sensor screwdriver on their own.
6. Torque adjustment must be carried out only after stopping the operation of the charging sensor screwdriver. ◦
7. Do not allow chemicals such as acetone, benzene, thinner, trichloroethylene ketone, or other similar chemicals to come in contact with the sensor screwdriver housing as damage will result.
8. Please operate the rechargeable sensor screwdriver carefully in accordance with the operating regulations. Do not drop or subject the screwdriver to impact.
9. When the rechargeable sensor screwdriver is running, if the forward/reverse lever is switched, the protection program will be activated, causing the screwdriver to stop. Restarting will return it to normal operation.
10. The mechanical wear of the rechargeable sensor screwdriver varies depending on the user's applied torque, duration, and frequency of use. Greater torque, longer operating time, or higher frequency will accelerate wear. After one month of use (8 hours per day, operating frequency 15 pcs/min), the minimum torque output may decrease by approximately 2–3%, while the maximum torque may decrease by 3–5%. As usage time increases, the rate of torque reduction will gradually slow down and stabilize. Users are advised to periodically measure the torque output with a torque meter to ensure it meets requirements and to compensate for any reduction in torque as needed.

V. Specifications

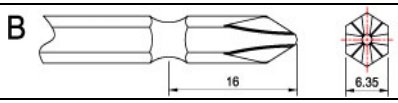
MODEL		SKC-MTCS505	SKC-MTCS512
Input voltage (DC)		DC 28.8V	
Torque +/-3sigma /AVG. 5%	(N.m)	0.625-5	1.5-12
Repeatable Torque Accuracy		+/- 3sigma / AVG., 5%	
Unloaded Rotation Speed ±3% (r/min)Can be set and adjusted		60-2000	60-900
Working Time		1.0s ON 3.0s OFF	
Weight (g)		1115 g (w/o battery)	
Length (mm)		L:227mm ＊ H:201mm (w/o battery)	
Applicable battery		SKC-LB2830E	
Applicable charger station		SKC-P102W	
Bit Type			

Accessories

Bits Code ~ B: Hex 6.35mm

SKC-MTCS505 with BIT 2# 2 Pcs
SKC-MTCS512 with BIT 3# 2 Pcs
W Type Not attached Socket.

Specifications

MODEL		SKC-MTCS303	SKC-MTCS303F	SKC-MTCS305
Input voltage (DC)		DC 14.4V		
Torque +/-3sigma /AVG. 5%	(N.m)	0.5-3	0.5-3	0.83-5
Repeatable Torque Accuracy		+/- 3sigma / AVG., 5%		
Unloaded Rotation Speed ±3% (r/min)Can be set and adjusted		60-1000	60-2000	60-1000
Working Time		1.0s ON 3.0s OFF		
Weight (g)		850g (w/o battery)		
Length (mm)		L:217mm ＊ H:198mm (w/o battery)		
Applicable battery		SKC-LB1430		
Applicable charger station		SKC-P70W		
Bit Type				

Accessories

Bits Code ~ B: Hex 6.35mm
Accessory ~ Bit no. :
No.2 · · · · Bit use in dia 3.0~4.0mm scre

SKC-MTCS303 with BIT 2# 2 Pcs
SKC-MTCS303F with BIT 2# 2 Pcs
SKC-MTCS305 with BIT 2# 2 Pcs
W Type Not attached Socket.

VI. Setting

1. Home Page

Tool Name: Default value, displays TN_Screwdriver Serial Number.

APP Link: Connection status with the APP.

Green: Connected

Red: Not connected.

Mute: Turn off the screwdriver buzzer.

DT: Interval time between screw.

TT: Single Sequence Completion Time.

: Battery Level.

Job: Current Job Number.

Seq. : Current Sequence / Total Number of Sequences.

Step: Current Step / Total Steps.

Counter: Current Screw Count / Total Screw Count.

N.m: Torque Unit.

Torque: Fastening Torque Value / Target Torque.

Angle: Fastening Angle Value.

° : Angle Symbol.

Speed: Screw Rotation Speed.

RPM: Angle Symbol.

Status Bar: READY / NG / OK, etc.

Page: Enter Function Page.

Barcode: Activate Barcode.

Confirm: Clearing Status, for example: NS/EOC/OK -JOB Stop/OK-SEQ Stop.



Clear Function

- Press and hold “Confirm” once. A short beep sounds and “Clear” is displayed. Release the button; a long beep sounds, indicating that the screw count has been cleared.
- Press and hold the “Confirm” button continuously. Two short beeps sound and “Seq Clear” is displayed. Release the button; a long beep sounds, indicating that the sequence has been cleared.

2. Function Page

(1) Language



Page Up: Previous Page on Function Page.

Page Down: Next Page on Function Page.

Enter: Enter Next page.

Back: Back to Function Page.

Select: Select Language.

Confirm: After selecting "Enter," press "Confirm" to choose the language.

The currently selected item is highlighted with a gray background.

The item being selected is highlighted with a blue background.

【Example】

Press "Enter" to select; the option turns blue background when selected.

Then press "Select" to choose another option.

Press "Confirm" to select this option. Press "Confirm" once more; the option will turn gray, indicating that the selection is complete.

(2) Tool Mode



Stand Alone: Screwdriver Independent Operation.

Controlled: APP-Controlled Screwdriver Sequence Flow.

Spacebar: Hold down for 10 seconds. When a beep sounds, the next page will appear (hidden feature).

Press "Select" to choose an option; the selected item will be highlighted with a blue background.

Press "Confirm"; the confirmed selection will be shown with a red background. After a few seconds, a beep will sound and the tool will restore to factory default settings.

Press the screwdriver activate pressure plate. When the LCD screen lights up, the tool is ready for operation.

Default Setting Resets: Reset to Factory Settings.

Tool: Reset the tool to factory settings.

WIFI: Reset the wireless network to factory settings.

【Note】When the screwdriver is powered off, it must be manually turned on (by pressing the activation pressure plate or the left button on the screen).

Page Up: Previous Page in Function page.

Page Down: Next Page in Function page.

Back: Return to Function Page.

Select: Select Item.

Confirm: Confirmation Mode.

(3) Switch Job ID

Job ID: Switch Job Number.

Switch Job ID: Display the job switching function.

Page Up: Previous page in function page.

Page Down: Next page in function page.

Enter: Go to the next page.

Back: Return to function page.

Select: Selection mode.

Confirm: After selecting “Enter,” press “Confirm” to choose the the job to be switched.

The currently selected item is highlighted with a gray background.

The item being selected is highlighted with a blue background.



【Example】

Press “Enter” to select; the option turns blue background when selected.

Then press “Select” to choose another option.

Press “Confirm” to select this option. Press “Confirm” once more; the option will turn gray, indicating that the selection is complete.

(4) job

Job(Top Header Bar): Display job parameter information.

Job Name: Current job name.

Job OK: Completion signal.

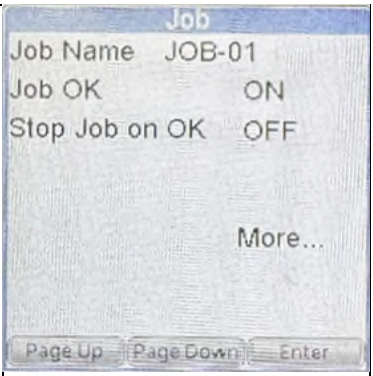
Stop Job on OK: Stop upon completion confirmation.

More: Press “Enter” to display more parameters.

Page Up: Previous page in function page.

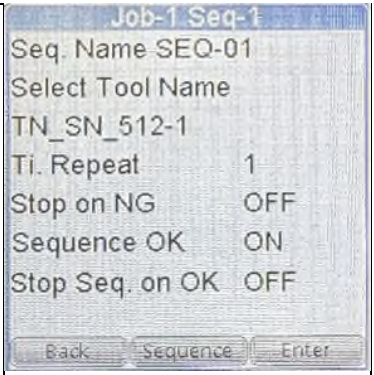
Page Down: Next page in function page.

Enter: Go to the next page (Job-1 Seq-1).



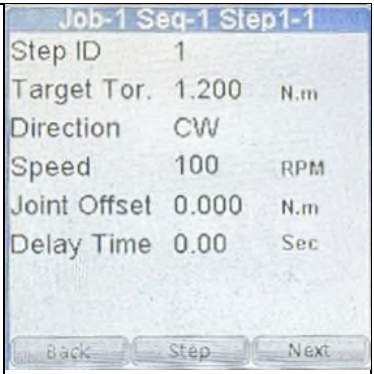
Job-1 Seq-1

Job(Top Header Bar): Display the current executing Job ID.
Seq(Top Header Bar): Display the Sequence ID of the sequence.
Seq. Name: Current sequence name.
Select Tool Name: Select tool in the sequence.
Ti. Repeat: Total screw counts in the sequence.
Stop on NG: Stop on NG (NS).
Sequence OK: Sequence completion signal.
Stop Seq. on OK: Stop upon sequence completion.
Sequence: Enter the next Sequence ID.
Enter: Go to the next page (Job-1 Seq-1 Step1-1).
Back: Return to function page.

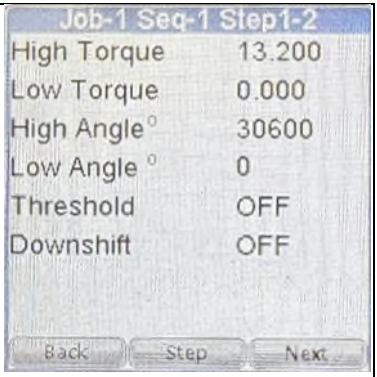


Job-1 Seq-1 Step1-1

Job(Top Header Bar): Display the current executing Job ID.
Seq(Top Header Bar): Display the Sequence ID of the sequence.
Step(Top Header Bar): Display the Step ID and page of the sequence.
Step ID: Display the step parameters set for the sequence.
Target Tor.: Display the step parameters set for the sequence.
Target Angle: Displays the step parameter set for the current operation based on the current setting value.
N.m: Display the torque unit value set in the controller.
Direction: Display the step parameters set for the sequence.
Speed: Display the step parameters set for the sequence.
RPM: Display the rotation speed unit.
Joint Offset: Display the step parameters set for the sequence.
Delay Time: Display the step parameters set for the sequence.
Sec: Display the delay time unit.
Back: Return to the sequence page.
Next: Go to the next page (Step1-1 to Step1-2).
Step: Enter the next Step ID.



Job-1 Seq-1 Step1-2



Job(Top Header Bar): Display the current executing Job ID.

Seq(Top Header Bar) : Display the Sequence ID of the sequence.

Step(Top Header Bar): Display the Step ID and page of the sequence.

High Torque: Display the step parameters set for the sequence.

Low Torque: Display the step parameters set for the sequence.

High Angle: Display the step parameters set for the sequence.

Low Angle: Display the step parameters set for the sequence.

° : Angle symbol.

Threshold(Torque / Angle): Display the step parameters set for the sequence.

Downshift(Torque / Angle / Speed): Display the step parameters set for the sequence.

【NOTE】Displayed items vary according to the display conditions configured in the APP.

Back: Return to the sequence page.

Next: Go to the next page (Step1-2 back to Step1-1).

Step: Enter the next Step ID.

(5) Driver Information

FW Ver.: Display the tool firmware version.

S/N: Display the tool serial number.

Model: Displa y the tool model.

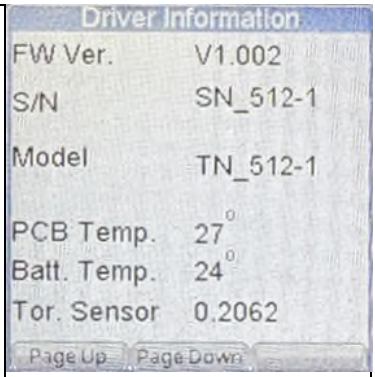
PCB Temp.: Display the PCB temperature.

Batt. Temp.: Display the battery temperature.

Tor. Sensor: Display the torque detection.

Page Up: Previous page in function page.

Page Down: Next page in function page.



(6) Network Mode

Mode: IP address type (currently only DHCP).

Tool IP: Tool IP (assigned by Router).

GW: Display default gatewa y IP.

NM: Display subnet mask IP.

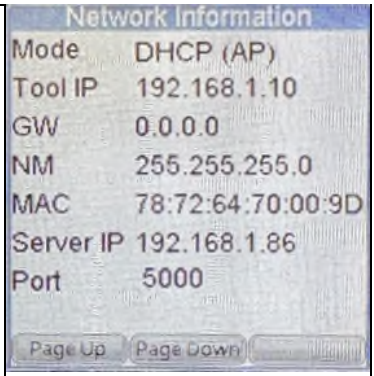
MAC: Display tool MAC address.

Server IP: Display server IP.

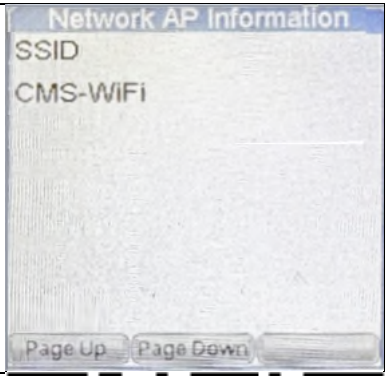
Port: Communication port between server and tool.

Page Up: Previous page in function page.

Page Down: Next page in function page.



(7) Network AP Information

SSID: Display AP Wi-Fi Name. CMS-WiFi: Displays the default AP Wi-Fi name. Page Up: Previous page in function page. Page Down: Return to the Home Page.	
Download the app and user manual by scanning the QR code.	

Our company reserves the right to modify the product without prior notice.