TAW AND TAS SERIES

BAHCO®

STANDARD AND SLIM ELECTRONIC TORQUE-ANGLE WRENCH AND ELECTRONIC TORQUE-ANGLE SCREWDRIVER

Original Instructions

IMPORTANT SAFETY INSTRUCTIONS

WARNING.
RISK OF FLYING PARTICLES. Over-torquing can cause breakage. Force against flex stops on flex head can cause head breakage. An out of calibration angle tool can cause part or tool breakage. Broken hand tools, sockets or accessories can cause injury. Excess force can cause crowfoot or flare nut tool slippage.

- Read this manual completely before using ELECTRONIC TOOL.
- To insure accuracy, work must not move in angle mode.
- For personal safety and to avoid tool damage, follow good professional tool and fastener installation practices.
- Periodic recalibration is necessary to maintain accuracy.

- Wear safety goggles, user and bystanders.
- Be sure all components, including all adaptors, extensions, drivers and sockets are rated to match or exceed torque being applied.
- Observe all equipment, system and manufacturer's warnings, cautions and procedures when using this tool.
- Use correct size socket for fastener.
- Do not use sockets showing wear or cracks.
- Replace fasteners with rounded corners.
- To avoid damaging tool: Never use tool with power off. Always turn ON tool so applied torque is being measured.
- Do not press POWER while torque is applied or while tool is in motion.

- Never use this tool to break fasteners loose.

- Do not use extensions, such as a pipe, on handle of tool.
- Check that tool capacity matches or exceeds each application before proceeding.
- Verify calibration if dropped.
- Make sure ratchet direction lever is fully engaged in correct position.
- Verify calibration of tool if you know or suspect its capacity has been exceeded.
- Do not force head of flex head drives against stops.
- Always adjust your stance to prevent a possible fall should something give while using tool.
- Do not attempt to recharge Alkaline cells.
- Store tool in dry place.
- Remove batteries when storing tool used for periods longer than 3 months.

WARNING.
Electrical Shock Hazard.
Electrical shock can cause injury. Metal handle is not isolated.
Do not use on live electrical circuits.

SAVE THESE INSTRUCTIONS

DISCLAIMER
Operation of the tool is not warranted in an EU member state if operating instructions are not in that State's language.

Contact BAHCO if a translation is needed.

SPECIFICATIONS

WRENCH HEAD TYPES
Ratcheting square drive 48 teeth
9x12, 14x18 & 24x32 receivers for interchangeable head

SCREWDRIVER (SCR) HEAD TYPES
1/4" male square drive
1/4" female hex earth magnet retention

DISPLAY
- DISPLAY TYPE:
  Dot Matrix LCD (192 x 65 Resolution) STD
  Dot Matrix LCD (168 x 48 Resolution) SLIM & SCR
- VIEWING DIRECTION: 6:00
- BACKLIGHT: WHITE (LED)

SEALED BUTTON PAD
- POWER - ON/OFF and torque and angle re-zero
- ENTER - measurement mode select and menu entry
- UP – increments torque and angle settings and menu navigation
- DOWN - decrements torque and angle settings and menu navigation
- U UNITS - units select: ft-lbs, in-lbs, in-oz (depending on range); kgm, kg-cm, dNm, cNm (depending on range) and enter PSET (preset) menu
- LCD BACKLIGHT – Illuminates all screens and last peak torque or angle recall

FUNCTIONS
- Set - torque or angle target
- Track - real time display of torque or accumulated angular rotation with progress lights
- Peak Hold - 5 sec. flashing of peak torque or alternating peak torque/angle on release of torque
- Peak Recall - display last peak torque or peak torque/angle on button press
- Memory - display of last 50 peak torque or peak torque/angle readings

ACCURACY
- Temperature: 22°C (72°F)
- Angle: (±1% of reading) + (±1º angular velocity > 10º/sec < 180º/sec) + (±1º of test fixture)

	CW	CCW	
STD			
	±2%	±3%	of reading, 20% to 100% of full scale
Torque: (unflexed)	±4%	±6%	of reading, 10% to 19% of full scale
	±8%	±10%	of reading, 5% to 9% of full scale

	CW	CCW	
SLIM & SCR			
	±2%	±3%	of reading, 20% to 100% of full scale
Torque: (unflexed)	±4%	±6%	of reading, 5% to 19% of full scale

OPERATING TEMPERATURE
0°F - 130°F (-18°C - 54°C)

STORAGE TEMPERATURE
0°F to 130°F (-18°C to 54°C)

MEASUREMENT DRIFT
ANGLE: -0.12 Angular Degrees per Degree C
TORQUE: +0.01% of reading per Degree C

HUMIDITY
Up to 90% non-condensing

BATTERY
SLIM & SCR: Single "AA" Alkaline Cell
STD: Three "AA" Alkaline Cells
Alkaline, Lithium or rechargeable NiMH batteries exceeds ASME battery life requirement of 10 hours continuous operation.

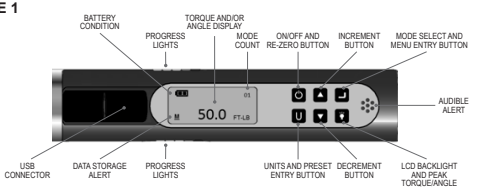
DEFAULT AUTO SHUT-OFF
After 2 minutes idle –
(Adjustable, see Advanced Settings)

Static Dissipative (ESD) Properties: Surface Resistivity 107 - 1010 (only in screwdriver (SCR))

USER INSTRUCTIONS

SLIM & STD

FIGURE 1

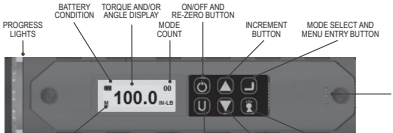


PROGRESS LIGHTS

Yellow:
First light indicates 40% of target torque or angle reached, Second indicates 60% of target reached,
Third indicates 80% of target reached.
Green:
Indicates target torque or angle reached.
Red:
Indicates exceeded torque or angle target +4% for targets above 20% to 100% of full scale or target +10% for targets from 5% to 20% of full scale or exceeded maximum Preset target. (Note: Yellow lights also turn on with red)

SCR

FIGURE 1



PROGRESS LIGHTS

Yellow:
1/2 second on/off flashing indicates 40% of target torque or angle reached.1/4 second flashing indicates 60% of target reached. Continuous on indicates 80% of target reached.
Green:
Indicates target torque or angle reached.
Red:
Indicates exceeded torque or angle target plus 4% or exceeded madimum Preset target.

Install fresh Alkaline "AA" cells into handle of tool.

TOOL POWER ON SEQUENCE

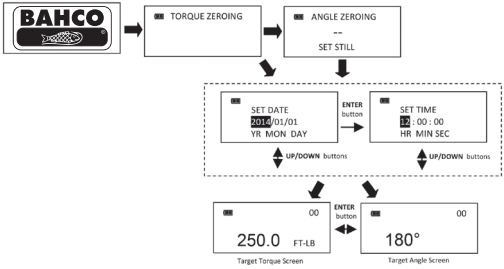
Note: Do not turn on tool while torque is applied, otherwise torque zero offset will be incorrect and tool will indicate a torque reading when torque is released. If this occurs, re-zero tool by momentarily pressing POWER button while tool is on a stable surface with no torque applied.

1. Turn On Tool.
While holding tool still, press POWER button. BAHCO logo will be displayed followed by torque and angle re-zeroing screens (if angle mode has been previously selected). Target TORQUE or ANGLE screen will now be displayed (depending on previous measurement mode selected).

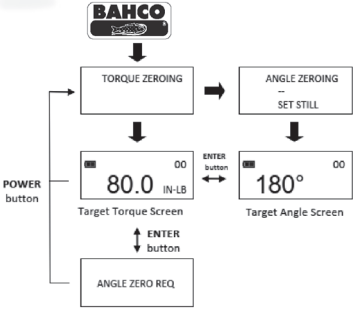
Note: By simultaneously pressing the ENTER and UNITS U buttons, the keypad can be locked to prevent inadvertent button presses while griping the screwdriver body. The Lock Icon is displayed when the keypad is locked. To unlock the keypad, press the ENTER – UNITS U – ENTER buttons in sequence (on screwdrivers (SCR) only).
Note: If the keypad was locked when powered down, on power up, the keypad will remain locked and will require the keypad unlock button sequence of ENTER – UNITS U – ENTER to become functional again (on screwdrivers (SCR) only).

2. Select Measurement Mode.
Toggle between target TORQUE and ANGLE screens by repeatedly pressing ENTER button.

STD



SLIM/SCR



Note: If wrench is powered up in torque only measurement mode, angle is not zeroed until mode is changed to angle measurement mode, at which time torque and angle zeroing begins automatically after 2 seconds. Wrench should be placed on a stable surface with no torque applied.
Note: If screwdriver is powered up in torque only measurement mode, angle is not zeroed until keypad is unlocked and mode is changed to angle measurement mode. The Angle Zero Required screen will be displayed. Angle zeroing begins automatically after 2 seconds. Screwdriver should be placed on a stable surface with no torque applied (on screwdrivers (SCR) only).
Note: Pressing ENTER button while angle is zeroing will abort zeroing function to allow user to select another measurement mode.

TORQUE MODE

1. Set Target.
   Use UP/DOWN buttons to change TORQUE target value.
2. Select Units of Measure.
   Repeatedly press UNITS button while on target TORQUE screen until desired units are displayed.

3. Apply TORQUE.
   Grasp center of handle and slowly apply torque to fastener until progress lights display green and a ½ second audible alert and handle vibration alerts you to stop.
4. Release TORQUE.
   Note peak TORQUE reading flashing on LCD display for 5 seconds. Pressing BACKLIGHT button while peak torque is flashing will continue to display value until button is released. Momentarily pressing UP/DOWN, ENTER or UNITS button will immediately return to target TORQUE screen. Reapplying TORQUE will immediately start another TORQUE measurement cycle.
5. Recall Peak TORQUE Reading.
   To recall last peak TORQUE measurement, press and hold BACKLIGHT button for approximately 3 seconds. Peak TORQUE will flash for 5 seconds.

ANGLE MODE

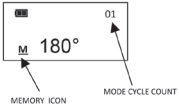
Note: When angle measurement mode is selected for first time following a power on, "ANGLE ZERO REQUIRED" message is displayed. After two seconds angle zero process begins and tool must be placed on a stable surface. If ENTER button is pressed before two seconds to change to torque only mode, angle zero process is skipped.

1. Set target. Use UP/DOWN buttons to change target ANGLE value.
2. Apply Torque and Rotate Tool. Grasp center of handle and slowly apply torque to fastener and rotate tool at a moderate consistent speed until progress lights display green and a ½ second audible alert and handle vibration alerts you to stop.
3. Release torque. Note alternating peak TORQUE and ANGLE readings flashing on LCD display for 5 seconds. Pressing BACKLIGHT button while peak values are flashing will continue to display values until button is released. Momentarily pressing UP/DOWN, ENTER or UNITS button will immediately return to target ANGLE screen. Reapplying torque (ratcheting) before target screen is displayed will continue ANGLE accumulation as tool is rotated.
4. Recall Peak ANGLE Reading. To recall last peak ANGLE measurement, press and hold BACKLIGHT button for approximately 3 seconds. Peak TORQUE and ANGLE will be displayed alternately for 5 seconds.

MODE CYCLE COUNT

Mode cycle count feature is used to indicate number of times tool has reached target torque in torque measurement mode or target angle in angle measurement mode.

STD / SLIM / SCR



TORQUE AND ANGLE MODE CYCLE COUNTING

1. Numerical counter located in top right of target torque or target angle screen will increment after each torque or angle cycle if applied torque or angle has reached target value.
2. When toggling between torque mode or angle mode using ENTER button or if target is changed, numerical counter will reset back to 00. counter WILL NOT reset when re-zeroing, on menu entry/ exit or power down.
3. Memory icon will turn on indicating at least one torque or angle cycle data has been stored in memory.

MAIN MENU

Main menu displays tool operational information.

1. From target torque or angle screen, press and hold ENTER button for 3 seconds.
2. Use UP/DOWN buttons to highlight menu selection then press ENTER button.

   Menu Selections:

   EXIT - Exits Main menu and returns to target screen.

   LANGUAGE - Displays language selection menu.

   SET HEAD LENGTH - Displays wrench head length entry screen (only on TAW wrenches).

   SHOW DATA - Displays stored torque and angle data.

   CLEAR DATA - Clears stored torque and angle data.

   CYCLE COUNT - Displays torque/angle cycle count screen.

   SETTINGS - Displays advanced settings menu (see Advanced Settings Section).

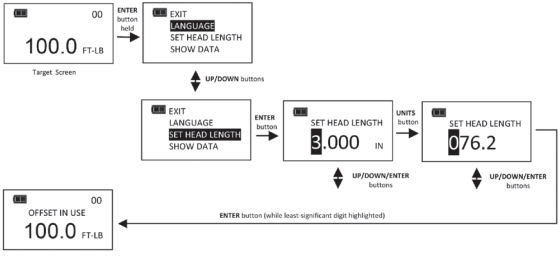
   CONFIGURE - Displays advanced configuration menu (see Advanced Configuration Section).

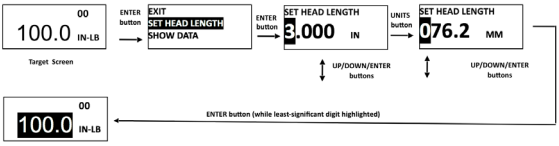
SETTING HEAD LENGTH (ONLY APPLICABLE TO TAW WRENCHES)

Note: If wrench has an interchangeable head or an adapter or extension is added, length of head, adapter and/or extension being used can be entered to correct for a different length without requiring re-calibration.

1. To enter a head length, from target torque or angle screen, press and hold ENTER button for 3 seconds.
2. With SET HEAD LENGTH menu selection highlighted, momentarily press ENTER button.
3. Set Head Length screen is displayed next. Default head length is length of head at calibration (zero for fixed head wrench) and is displayed with most-significant digit highlighted. Use UP/DOWN buttons to increment/decrement head length. Pressing and holding UP/DOWN buttons will progressively increment/decrement value faster.
4. Press ENTER button to accept digit and highlight next-significant digit.
5. Default units of length is in inches. Press UNITS button to change to millimeters.
6. Pressing ENTER button after least-significant digit is set returns to main menu. If length is changed from default, «OFFSET IN USE» message will be displayed on target screen (on STD wrenches), the target torque is highlighted in black (on SLIM wrenches).

Note: If UP/DOWN buttons are pressed simultaneously while on the Set Head Length screen, displayed head length resets to zero or calibration head length for interchangeable head wrenches.

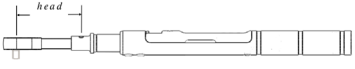




Note: For a fixed length head, head length entered is offset length measured from center of drive to center of fastener.

Note: For an interchangeable head, head length is measured from locking pin to center of drive. SET HEAD LENGTH is set during calibration. If a different length head is used, enter new head length and offset is calculated automatically.

Note: For an interchangeable head with an adapter, head length entered is sum of head length and offset length.



USE OF NEGATIVE OFFSETS

Note: Enter a negative value for offset when used in reverse direction with flex head or when calculating sum of interchangeable head and offset lengths.

When length of an offset (or sum of head minus offset for interchangeable head) is negative, maximum fastener target is limited by following formulas:

STD

135 Nm wrench:
Maximum Target Torque = offset *4,1 + 135

Offset (cm)	Max Target (Nm)
-1	131
-2	127
-3	123
-4	119

340 Nm wrench:
Maximum Target Torque = offset *6,1 + 340

Offset (cm)	Max Target (Nm)
-1	334
-2	328
-3	322
-4	316

800 Nm wrench:
Maximum Target Torque = offset *7,6 + 800

Offset (cm)	Max Target (Nm)
-1	792
-2	785
-3	777
-4	770

SLIM

12 Nm wrench:
Maximum Target Torque = offset * 0.522 + 12

Offset (cm)	Max Target (Nm)
-1	11.48
-2	10.96
-3	10.43
-4	9.91

30 Nm wrench:
Maximum Target Torque = offset * 1.3 + 30

Offset (cm)	Max Target (Nm)
-1	28.70
-2	27.40
-3	26.10
-4	24.80

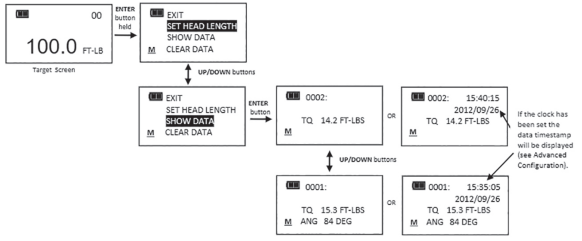
Note: When using a negative offset, entering a target torque greater than maximum values above may cause an overtorque error before reaching fastener target torque and possibly damage wrench.

VIEWING STORED TORQUE AND ANGLE DATA

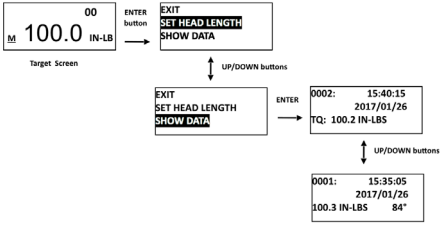
Torque data is stored in memory after each torque cycle if applied torque has reached target value. Torque and angle data is stored in memory after each angle cycle if applied angle has reached target value. Memory Indicator is displayed when data is stored in non-volatile memory.

1. To view stored torque and angle data, from target torque or angle screen, press and hold ENTER button for 3 seconds.
2. Highlight SHOW DATA menu selection by pressing UP/DOWN buttons then press ENTER button to display Show Data screen.
3. In Show Data screen, scroll through each stored data record by pressing UP/DOWN buttons. Example:
   0002 = Show Data List Counter: TQ = Peak torque value
   0001 = Show Data List Counter: TQ = Peak torque value: ANG = Peak angle value
4. Pressing ENTER button while on Show Data screen returns to main menu.

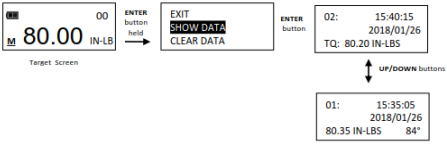
STD



SLIM



SCR

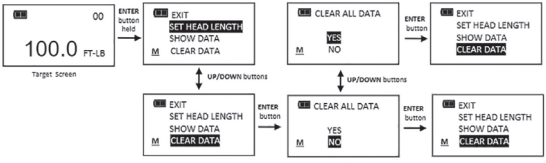


Note: A maximum of 50 data records can be stored. Memory full icon will be displayed when full and no more data is stored until memory is cleared (on STD wrenches only).
Note: A maximum of 50 data records can be stored in memory. Memory full icon will be displayed when full. When full, a new data record will become record number 50 and all older data is shifted down one record number. Record 02 becomes 01 and old 01 is dropped (on SLIM TAW & TAS SCR only).
Note: Date and Time is blank if real-time-clock has not been set (see Setting Date and Time in the Advanced Configuration section (only on TAS screwdriver).

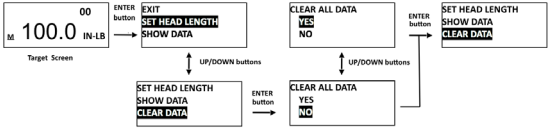
DELETING STORED TORQUE AND ANGLE DATA

1. From target torque or angle screen, press and hold ENTER button for 3 seconds.
2. Highlight CLEAR DATA menu selection using UP/DOWN buttons then press ENTER button to display CLEAR ALL DATA screen.
3. In CLEAR ALL DATA screen, highlight YES menu selection to delete all stored data, or NO menu selection to exit without deleting data.
4. Press ENTER button after making selection.

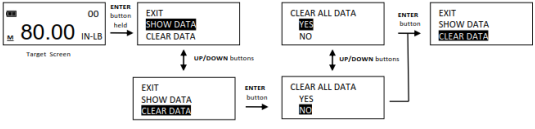
STD



SLIM



SCR

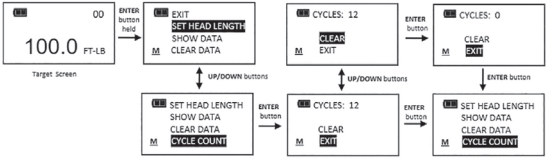


VIEWING AND CLEARING TOOL CYCLE COUNTER

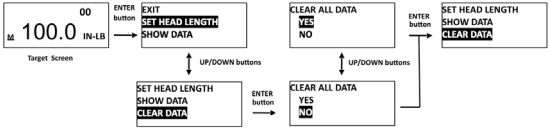
Each time torque or angle target is reached, tool cycle counter is incremented. Maximum cycle count is 999999.

1. From target torque or angle screen, press and hold ENTER button for 3 seconds.
2. Highlight CYCLE COUNT menu selection using UP/DOWN buttons.
3. Press ENTER button to display CYCLE COUNT screen.
4. To exit CYCLE COUNT screen without clearing count, press ENTER button while EXIT menu selection is highlighted.
5. To reset tool cycle count to 0, highlight CLEAR menu selection then press ENTER button.
6. EXIT menu selection is automatically highlighted after count is cleared. Press ENTER button to return to main menu.

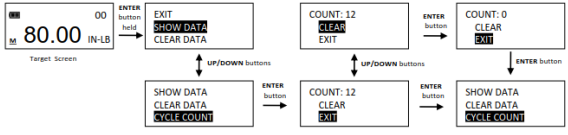
STD



SLIM



SCR

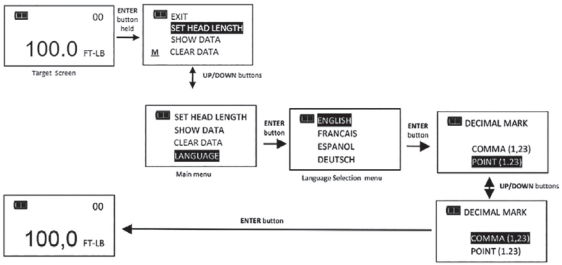


LANGUAGE

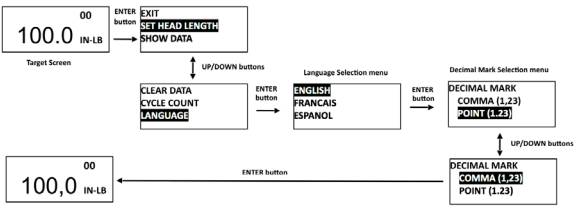
1. To select the language menu, press the ENTER button while LANGUAGE is highlighted then highlight the desired language and press the ENTER button.
2. Decimal Mark selection menu is displayed. Decimal separator can be a comma or decimal point. Use UP/DOWN buttons to select the decimal separator then press the ENTER button.

Note: The decimal separator will affect the formatting of the downloaded data when opened by Excel depending on Windows® regional settings.

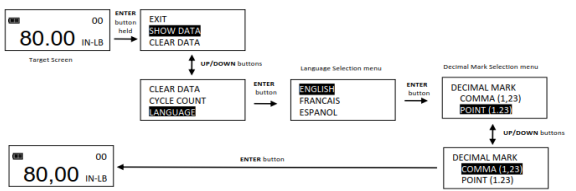
STD



SLIM



SCR



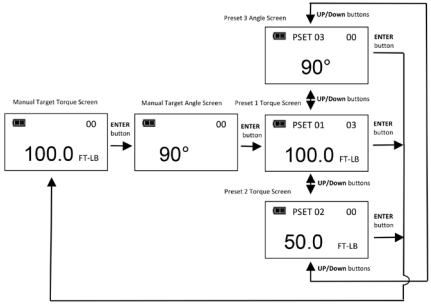
3. To exit Main menu and return to target torque or angle screen, press ENTER button while EXIT menu selection is highlighted.

TARGET PRESETS (PSET)

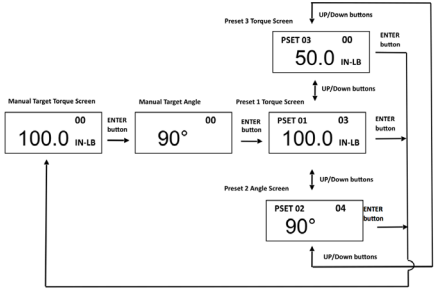
PSET function gives user ability to configure 10 preset target torque or target angle settings, each with a target, minimum, maximum (over range) and batch count value. PSETs are stored in non-volatile memory so that they are retained while power is off.

Note: After adding a Preset (see below), navigate between manual target torque, angle mode and PSET screen by repeatedly pressing ENTER button. While PSET screen is displayed, press UP/DOWN buttons to select additional configured PSETs.

STD



SLIM/SCR

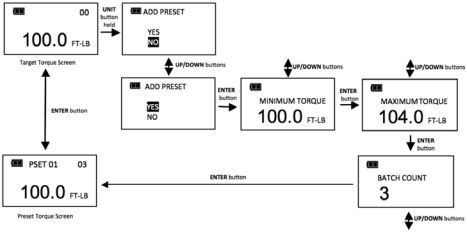


ADDING A TORQUE PRESET

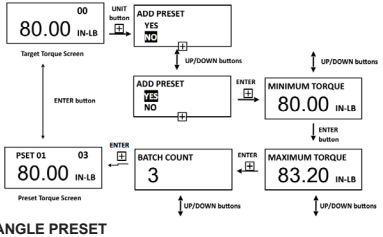
1. From manual target torque screen, select units of measure.
2. Press and hold UNITS button for 3 seconds.
3. ADD PRESET confirmation screen is displayed. Highlight YES menu selection using UP/DOWN buttons then press ENTER button. NO menu selection returns to main menu without adding a PSET.

4. MINIMUM TORQUE screen is displayed. MINIMUM TORQUE is value at which green progress lights, audible alert and vibrator turn on. Initial MINIMUM TORQUE value is value from target torque screen. MINIMUM TORQUE can be set to any value from TARGET TORQUE to tool minimum torque range by pressing UP/DOWN buttons. Once desired minimum torque value has been set, press ENTER button.
5. MAXIMUM TORQUE screen is displayed next. MAXIMUM TORQUE is torque value above which red progress lights turn on. Initial MAXIMUM TORQUE value will be MINIMIUM TORQUE value plus 4%. Maximum torque value can be set greater than TARGET TORQUE value to 10% above wrench maximum range by pressing UP/DOWN buttons. Once desired maximum torque value has been set, press ENTER button.
6. BATCH COUNT screen is displayed next. Default value is zero. Batch count range is 0 to 99. Press UP/DOWN buttons to increment/decrement batch count. Mode Count increments each time target torque is reached if a batch count of zero is entered. Mode Count decrements if a non-zero batch count is entered and resets to batch count value when count reaches zero. Once desired batch count value has been set, press ENTER button.
7. PSET target screen is displayed labeled with next available PSET number from 01 to 10.
8. To enter additional torque presets, repeatedly press ENTER button until target torque screen is displayed and repeat steps above.

STD



SLIM/SCR

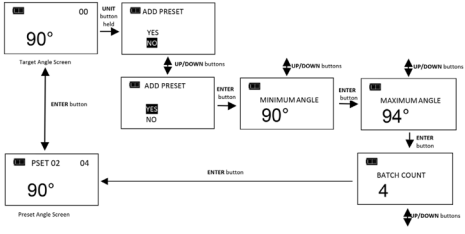


ADDING AN ANGLE PRESET

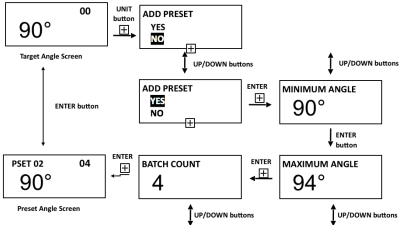
1. From manual target angle screen, press and hold UNITS button for 3 seconds.
2. ADD PRESET confirmation screen is displayed. Highlight YES menu selection using UP/DOWN buttons then press ENTER button. NO menu selection returns to main menu without adding a PSET.
3. MINIMUM ANGLE screen is displayed. MINIMUM ANGLE is value at which green progress lights, audible alert and vibrator turn on. Initial MINIMUM ANGLE value is value from target angle screen. MINIMUM ANGLE can be set from 0 to 360º by pressing UP/DOWN buttons. Once desired minimum angle value has been set, press ENTER button.

4. MAXIMUM ANGLE screen is displayed next. MAXIMUM ANGLE is angle value above which red progress lights turn on. Initial MAXIMUM ANGLE value will be MINIMUM ANGLE plus 4%. MAXIMUM ANGLE value can be set to any value greater than MINIMUM ANGLE by pressing UP/DOWN buttons. Once desired value has been set, press ENTER button.
5. BATCH COUNT screen is displayed next. Default value is zero. Batch count range is 0 to 99. Press UP/DOWN buttons to increment/decrement batch count. Mode Count increments each time target angle is reached if a batch count of zero is entered. Mode Count decrements if a non-zero batch count is entered and resets to batch count value when count reaches zero. Once desired batch count value has been set, press ENTER button.
6. PSET target screen is displayed labeled with next available PSET number from 01 to 10.
7. To enter additional angle presets, repeatedly press ENTER button until target angle screen is displayed and repeat steps above.

STD



SLIM/SCR



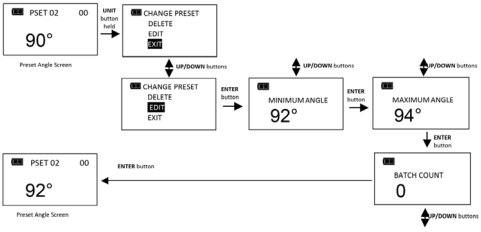
EDITING A PRESET

Edit PSET function gives user ability to edit stored PSETS on tool.

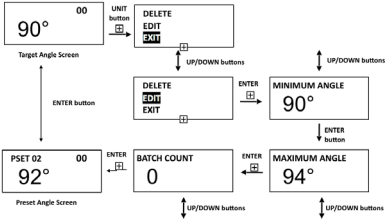
1. From Preset screen to be edited, press and hold UNITS button for 3 seconds.
2. CHANGE PRESET screen is displayed.
3. Highlight EDIT selection using UP/DOWN buttons then press ENTER button.
4. MINIMUM TORQUE or MINIMUM ANGLE screen is displayed. Value can be changed by pressing UP/DOWN buttons. Once desired torque or angle value has been set, press ENTER button.
5. MAXMUM TORQUE or MAXIMUM ANGLE screen is displayed next. Value can be changed by pressing UP/DOWN buttons. Once desired torque or angle value has been set, press ENTER button.

6. BATCH COUNT screen is displayed next. Value can be changed by pressing UP/DOWN buttons. Once desired batch count value has been set, press ENTER button.
7. PSET target screen is displayed labeled with same PSET number.

STD



SLIM/SCR



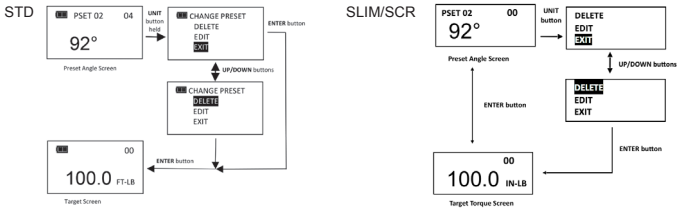
Note: Pressing ENTER button while EXIT menu selection is highlighted will exit without editing PSET.

DELETING A PRESET

Delete PSET function allows user to remove stored presets from tool.

1. From Preset screen to be deleted, press and hold UNITS button for 3 seconds.
2. CHANGE PRESET screen is displayed.
3. Highlight DELETE menu selection using UP/DOWN buttons and press ENTER button.
4. Target screen is displayed and deleted PSET is no longer available for selection.

Note: Pressing ENTER button while EXIT menu selection is highlighted will exit without deleting PSET.
Note: When a PSET is deleted, all other stored PSET's will retain their original PSET numbers.
When a new PSET is entered, it will be assigned first available PSET number in sequence.

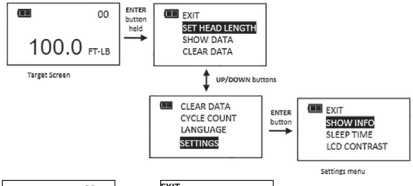


ADVANCED SETTINGS

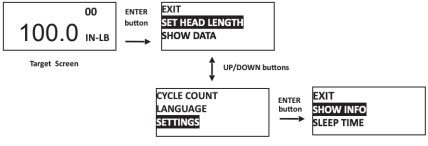
Advanced settings are accessed from SETTINGS menu selection on main menu.

1. From target torque or angle screen, press and hold ENTER button for 3 seconds.
2. Highlight SETTINGS menu selection using UP/DOWN buttons.
3. Press ENTER button to display Settings menu.
   Menu Selections:
   EXIT - Exits Settings menu and returns to target screen.
   SHOW INFO - Displays tool operational information.
   SLEEP TIME - Displays power down interval setup screen.
   LCD CONTRAST - Displays LCD contrast setup screen.
   KEY BEEP - Displays button press beep enable/disable setup screen.
   TARGET BEEP - Displays target beep enable/disable setup screen (only on SLIM & SCR).
   AUTO BACKLIGHT - Displays auto backlight enable/disable screen to turn on backlight during measurement.
   TOGGLE BACKLGHT - Displays BACKLIGHT button toggle or timeout enable/disable screen.
   VIBRATOR CONFIG - Displays vibrator ON/OFF configuration for when target reached.
   BATTERY TYPE - Displays the battery type selection screen (only on SLIM & SCR).
4. To exit Settings menu and return to target torque or angle screen, press ENTER button while EXIT menu selection is highlighted.

STD



SLIM/SCR



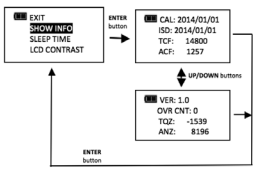
Note: All user configurable settings are stored in non-volatile memory and are retained while power is off.

SHOW INFO

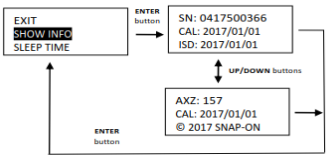
Show Info menu selection displays tool operational information.

1. From Settings menu, press ENTER button while SHOW INFO selection is highlighted.
2. SHOW INFO screen is displayed.
3. UP/DOWN buttons are used to scroll screen.
   Operational Information:
   CAL: Date of last tool calibration.
   ISD: In-Service Date (remains blank until real-time-clock set).
   TCF: Torque Calibration Factor.
   ACF: Angle Calibration Factor.
   VER: Software version.
   OVR CNT: Overtorque Counter tracks how many times an over-torque event occurred on wrench (torque >125% of full scale).
   AZZ: Angle Z-Axis Zero Offset (only on SLIM wrenches).
   AZX: Angle X-axis Zero Offset (only on SLIM wrenches).
   AZO: Angle Zero Offset at full scale torque (only on SLIM wrenches).
   TFS: Torque full scale value (only on SLIM wrenches).
   Copyright.
   TQZ: Torque Zero Offset.
   ANZ: Angle Zero Offset (only on STD & SCR instruments).
   AFS+: Angle Zero Offset at CW Torque Full Scale (only on SCR instrument).
   AFS-: Angle Zero Offset at CCW Torque Full Scale (only on SCR instrument).
   TFS+: CW Torque Full Scale (only on SCR instrument).
   TFS-: CCW Torque Full Scale (only on SCR instrument).
4. Pressing ENTER button exits Show Info screen and returns to Settings menu.

STD



SLIM/SCR

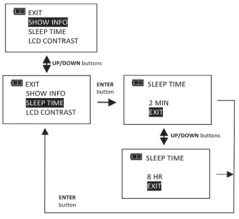


SETTING SLEEP TIME

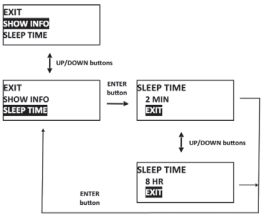
This function will allow user to set interval tool enters power-down state following last applied torque or button press.

1. From Settings menu, use UP/DOWN buttons to highlight SLEEP TIME selection then press ENTER button.
2. SLEEP TIME screen is displayed.
3. Use UP/DOWN buttons to select sleep interval.
   Selectable Intervals: 2 MIN (factory default); 5 MIN; 10 MIN; 30 MIN; 1 HR; 2 HR; 8 HR
4. Press ENTER button to accept selection and exit to Settings menu.

STD



SLIM/SCR

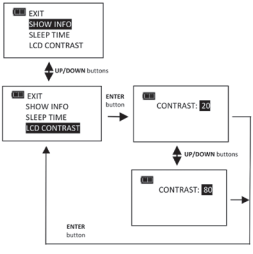


SETTING LCD CONTRAST

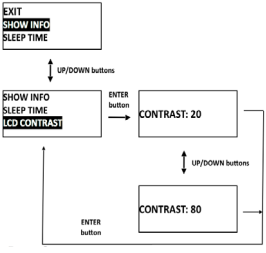
This function will allow user to set LCD contrast for optimal viewing.

1. From Settings menu, use UP/DOWN buttons to highlight LCD CONTRAST selection then press ENTER button.
2. CONTRAST screen is displayed.
3. Use UP/DOWN buttons while viewing display to change contrast to desired level. Selectable levels: 20 to 80 in increments of 5 (factory default = 40).
4. Press ENTER button to accept selection and exit to Settings menu.

STD



SLIM/SCR

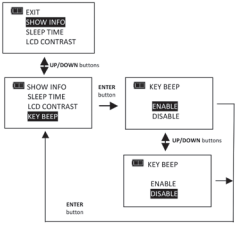


KEY BEEP SETUP

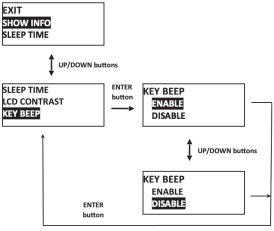
This function will allow user to enable or disable audio feedback when a button is pressed.

1. From Settings menu, use UP/DOWN buttons to highlight KEY BEEP selection then press ENTER button.
2. KEY BEEP screen is displayed.
3. Use UP/DOWN buttons to highlight ENABLE (factory default) or DISABLE selection.
4. Press ENTER button to accept selection and exit to Settings menu.

STD



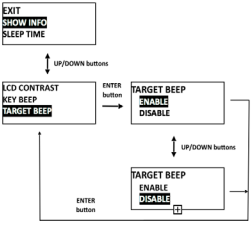
SLIM/SCR



TARGET BEEP SETUP (ONLY ON SLIM & SCR)

This function will allow user to enable or disable audio feedback when target torque or angle is reached. Audio feedback occurs on torque or angle over range (red LED) regardless of this setting.

1. From Settings menu, use UP/DOWN buttons to highlight TARGET BEEP selection then press ENTER button.
2. TARGET BEEP screen is displayed.
3. Use UP/DOWN buttons to highlight ENABLE (factory default) or DISABLE selection.
4. Press ENTER button to accept selection and exit to Settings menu.

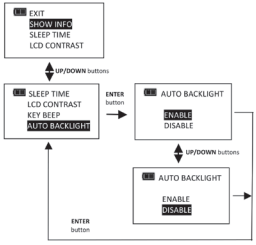


AUTO BACKLIGHT SETUP

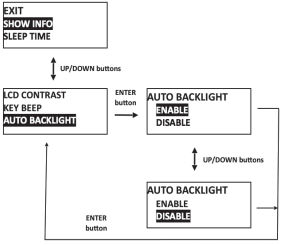
This function will allow user to enable or disable backlight from turning on during torque or angle measurement.

1. From Settings menu, use UP/DOWN buttons to highlight AUTO BACKLIGHT selection then press ENTER button.
2. AUTO BACKLIGHT screen is displayed.
3. Use UP/DOWN buttons to highlight ENABLE (factory default) or DISABLE selection.
4. Press ENTER button to accept selection and exit to Settings menu.

STD



SLIM/SCR



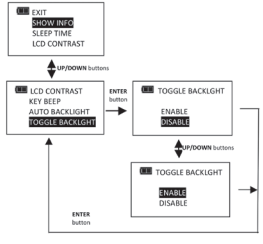
TOGGLE BACKLIGHT SETUP

This function will allow user to enable or disable backlight toggle function. If toggle mode is disabled, BACKLIGHT button turns on backlight and it automatically turns off after five seconds following any last button press. If toggle mode is enabled, a BACKLIGHT button press will turn on backlight and it will remain on until next BACKLIGHT button press.

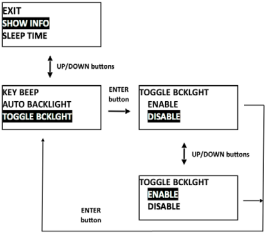
1. From Settings menu, use UP/DOWN buttons to highlight TOGGLE BACKLGHT selection then press ENTER button.
2. TOGGLE BACKLGHT screen is displayed.
3. Use UP/DOWN buttons to highlight ENABLE or DISABLE (factory default) selection.
4. Press ENTER button to accept selection and exit to Settings menu.

Note: Backlight will turn off when tool powers down either by POWER button press or sleep time.
Note: If toggle backlight is enabled and backlight is on, backlight will remain on during and after applying torque.

STD



SLIM/SCR

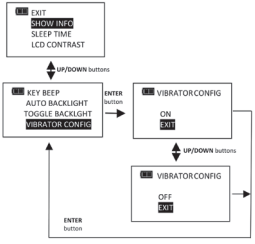


VIBRATOR CONFIGURATION

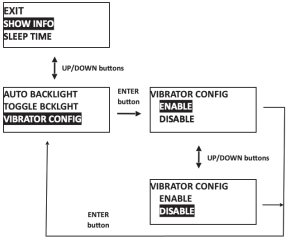
This function will allow user to configure vibrator for On or Off when target is reached for preference and/or battery power savings.

1. From Settings menu, use UP ▲ /DOWN ▼ buttons to highlight VIBRATOR CONFIG selection, then press ENTER ↵ button.
2. VIBRATOR CONFIG screen is displayed.
3. Use UP ▲ /DOWN ▼ buttons to toggle ON or OFF selection.
4. Press ENTER ↵ button to accept selection and exit to Settings menu.

STD



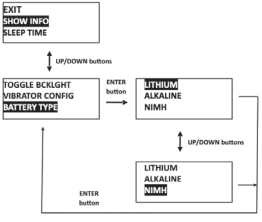
SLIM/SCR



BATTERY TYPE SELECTION (ONLY ON SLIM & SCR)

This function will allow user to configure the battery discharge thresholds for the type of battery used.

1. From Settings menu, use UP ▲ /DOWN ▼ buttons to highlight BATTERY TYPE selection then press ENTER ↵ button.
2. BATTERY TYPE screen is displayed.
3. Use UP ▲ /DOWN ▼ buttons to select the type of battery being used.
4. Press ENTER ↵ button to accept selection and exit to Settings menu.



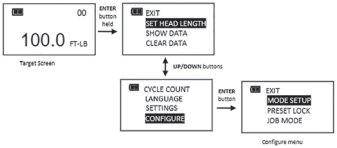
Note: Tool is configured for Alkaline battery shipped from factory. If Alkaline battery is replaced with rechargeable Nickel-Metal Hydride (NIMH) or lithium, battery type should be changed so battery level icon and LOW battery warnings function optimally. Battery life (REPLACE) will not be impacted, however 50% and Low will be optimized to show most accurate linear discharge time.

ADVANCED CONFIGURATION

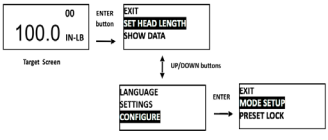
Advanced configuration is accessed from CONFIGURE menu selection on main menu.

1. From target torque or angle screen, press and hold ENTER button for 3 seconds.
2. Highlight CONFIGURE menu selection using UP/DOWN buttons.
3. Press ENTER button to display Configure menu.
   Menu Selections:
   EXIT - Exits Configure menu and returns to target torque or angle screen.
   MODE SETUP - Displays tool mode setup menu.
   DELETE PRESETS - Displays delete all presets menu.
   CALIBRATION - Displays tool calibration menu (password protected).
   SET DATE/TIME - Displays clock date and time entry screens.
   SET CAL INTRVAL - Displays calibration interval setup screen.
4. To exit Configure menu and return to target torque or angle screen, press ENTER button while EXIT menu selection is highlighted.

STD



SLIM/SCR



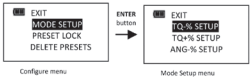
Note: All user configurable settings are stored in non-volatile memory and are retained while power is off.

MODE SETUP

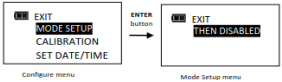
Mode setup menu allows user to enable/disable Torque THEN Angle mode.

1. From Configure menu, press ENTER button while MODE SETUP selection is highlighted.
2. Mode Setup menu is displayed.
   Menu Selections:
   EXIT - Exits Mode setup menu and returns to Configure menu screen.
   THEN DISABLED - Displays THEN Mode enable/disable screen.
3. Use UP/DOWN buttons to highlight menu selections.
4. Press ENTER button while EXIT menu selection is highlighted to return to Configure menu.

STD



SLIM/SCR

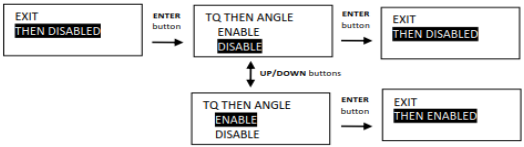


ENABLE/DISABLE TORQUE THEN ANGLE MODE

This function will allow user to enable or disable Torque THEN Angle Mode.

1. From Mode Setup menu, use UP/DOWN buttons to highlight THEN DISABLED (factory default) selection then press ENTER button.
2. TQ THEN ANGLE enable/disable screen is displayed.
3. Use UP/DOWN buttons to select ENABLE or DISABLE selection.
4. Press ENTER button to accept selection and exit to Mode Setup menu.

SLIM/SCR



Note: Menu selection indicates current configuration (ENABLED or DISABLED).

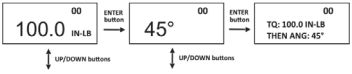
TORQUE THEN ANGLE MODE

Torque THEN Angle mode is setup by first setting a target torque and units then a target angle before selecting Torque THEN Angle mode. In Torque THEN Angle mode, when applied torque reaches target torque, tool automatically switches to angle mode for angle measurement. Progress lights indicate applied torque progress while torque is measured and angle when angle is measured. If torque is below target torque when angle reaches target angle, green progress lights will not turn on and if angle exceeds maximum angle, red progress lights turn on indicating a potential problem with fastener.

1. From target torque screen, use UP/DOWN buttons to set target torque and UNITS button to select torque measurement units then press ENTER button.
2. Angle target screen is displayed. Use UP/DOWN buttons to set target angle then press ENTER button.
3. Torque THEN Angle mode screen is displayed.
4. Apply torque until target is reached then rotate wrench to target angle.

STD

SLIM/SCR



Note: UNITS button can be used to select torque units while on Torque THEN Angle screen.
Note: Torque cycle is not recorded in memory unless both torque and angle reach targets.
Note: Red progress lights turn on if torque exceeds 110% of tool full scale or if angle exceeds target + plus tolerance while in manual mode.
Note: Torque THEN Angle Presets are entered by pressing and holding Units button while on Torque THEN Angle screen. MAXIMUM TORQUE defaults to full range plus 10%. Refer to "Adding a Torque Preset" and "Adding an Angle Preset" in Basic section for parameter entry.

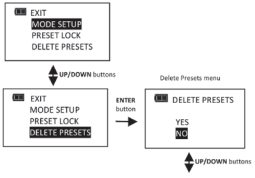
DELETE PRESETS

Delete Presets function allows user to delete all presets at once.

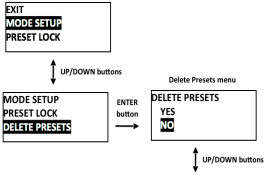
1. From Configure menu, use UP/DOWN buttons to highlight DELETE PRESETS selection then press ENTER button.
2. Delete Presets confirmation screen is displayed.

3. Use UP/DOWN buttons to select YES or NO selection.
4. Press ENTER button to accept selection and exit to Configure menu.

STD



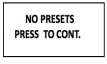
SLIM/SCR



Note: If Delete Presets is selected without a Preset configured, following screen is displayed:

STD

SLIM/SCR



CALIBRATION

Calibration menu is password protected. Refer to Calibration Manual.

STD

SLIM/SCR

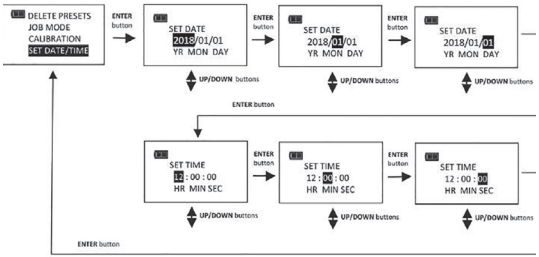
SETTING DATE AND TIME

Set Date/Time function allows user to set real-time-clock date and time for time stamping data records, recording last calibration date and notifying user of an expired calibration interval.

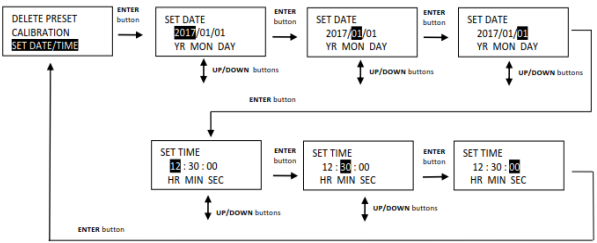
Note: When date and time is set for first time, In-Service date is also set and is used for calculating initial calibration interval (see "Setting Calibration Interval" in Advanced Configuration section).

1. From Configure menu, use UP/DOWN buttons to highlight SET DATE/TIME selection then press ENTER button.
2. SET DATE screen is displayed with year highlighted.
3. Use UP/DOWN buttons to set year then press ENTER button to highlight month.
4. Use UP/DOWN buttons to set month then press ENTER button to highlight day.
5. Use UP/DOWN buttons to set day then press ENTER button.
6. SET TIME screen is displayed with hour highlighted.
7. Use UP/DOWN buttons to set hour then press ENTER button to highlight minutes.
8. Use UP/DOWN buttons to set minutes then press ENTER button to highlight seconds.
9. Use UP/DOWN buttons to set seconds then press ENTER button.
10. Clock is set and Configure menu is displayed.

STD



SLIM/SCR



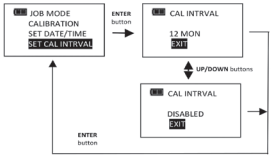
Note: Year selection will scroll up from 2013. Month selection will scroll from 1 to 12. Day selection will scroll from 1 to 31.
Note: Hour selection will scroll through 0 to 23. Minute and Second selections will scroll through 0 to 59.
Note: If batteries are removed from tool for longer than 20 minutes, clock will revert to default settings and must be re-entered at power on.

SETTING CALIBRATION INTERVAL

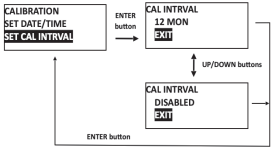
This function will allow user to set calibration interval for when “CAL NEEDED” message will be displayed.

1. From Configure menu, use UP/DOWN buttons to highlight SET CAL INTRVAL selection then press ENTER button.
2. CAL INTERVAL screen is displayed.
3. Use UP/DOWN buttons to change calibration interval.
   Selectable Intervals: 12 MON (factory default); 6 MON; 3 MON; DISABLED
4. Press ENTER button to accept selection and exit to Configure menu.

STD



SLIM/SCR



Note: Clock Date and Time must be set before calibration interval will function. If batteries are removed from tool for longer than 20 minutes, clock will revert to default settings and must be re-entered at power on.

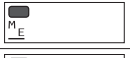
Note: Calibration interval is calculated from either IN-Service Date or last Calibration date (see SHOW INFO menu) depending on which is more recent date. When clock Date is greater than IN-Service or Last Calibration date, plus Cal Interval, "CAL NEEDED" message will be displayed on power up and after a re-zero. Pressing ENTER button will continue to target menu. Applying torque while "CAL NEEDED" message is displayed will immediately display torque or angle measurement and return to target menu when released.

Note: As an alternative to calibration interval, a Calibration Cycle Counter is provided in Calibration menu (Refer to Calibration Manual regarding Calibration menu). Each time a measurement cycle reaches target torque, calibration cycle counter is incremented. When torque is recalibrated, calibration counter is automatically reset to zero. User can disable calibration interval check and use number of cycles since last calibration to decide when to recalibrate.

Note: If an invalid date is entered and Calibration interval is enabled, an unintended "CAL NEEDED" message may be displayed. Either disable the calibration interval or enter a correct date.

TROUBLESHOOTING

Note: If any of following issues persist, return wrench to a SNA Europe/Bahco repair center.

ISSUE	POSSIBLE CAUSE	RESOLUTION
Tool does not turn on when POWER button pressed.	Dead/No batteries	Replace batteries
	Software glitch	Cycle power using end-cap
Torque reading out of spec.	Calibration required	Recalibrate
	Incorrect head length entered	Enter correct offset head length
Tool did not retain settings while batteries were removed.	Batteries removed before setting were saved in non-volatile memory.	Clear data, re-enter settings and press and hold POWER button to power down tool before removing batteries.
Buttons do not function.	Keypad locked	Press the ENTER button followed by the UNITS U button then the ENTER button again.
	Low battery	Press ENTER button to continue using tool and replace batteries soon.
	Dead battery	Press POWER button to turn off tool and replace batteries.
	Torque applied while zeroing	Remove torque and re-zero
	Tool over torqued	Recalibrate
	Tool improperly calibrated	Recalibrate
	Torque sensor failure	Return to Factory
	Tool moving during zeroing	Place tool on stable surface
	Gyro unstable	Return to Factory
	ENTER button pressed during angle zeroing (Aborted zeroing to access menus)	Press POWER button to re-zero
	Over 125% of full scale torque applied	Cycle power using POWER button and recalibrate
	Tool rotated too fast during angle measurement	Press POWER button to re-zero
	Calibration interval exceeded or invalid date entered with calibration interval enabled	Calibrate tool or press ENTER to continue. Disable calibration interval if not required.
	Memory error	Clear data memory
	Torque uncalibrated	Calibrate torque
	Angle uncalibrated	Calibrate angle

IMPORTANT INFORMATION

USE OF ADAPTORS, EXTENSIONS AND UNIVERSALS (ONLY applicable to TAW wrenches)
Anytime an adaptor, extension or universal is used with a torque tool in such a way that fastener distance is different than torque tool square drive distance at calibration, an adjustment to head length is required to get a proper fastener torque reading. When using wobble extension or a universal, do not exceed more than 15 degrees of offset from perpendicular drive. Do not use a long extension with flex-drive at full flex.

CALIBRATION
Contact your Bahco sales representative for calibration services or refer to Calibration Manual.

CERTIFICATION
This torque-angle tool was calibrated at factory using angular displacement and torque measurement instruments that are traceable to National Institute of Standards and Technology (N.I.S.T.). Torque parameters comply with ISO 6789:2003 and ASME B107:300-2010 (B107.29). Note: no U.S. or International Standards exist for angle tools. Angle calibration was performed on an angle gage with ±1 degree accuracy at each 45 degree indexing point throughout 180 degrees of rotation.

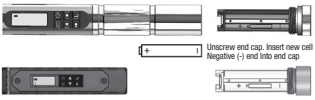
IMPORTANT!
Calibration events are recorded in wrench memory which provides evidence to void factory certification.

MAINTENANCE / SERVICE
Clean tool by wiping with a damp cloth. DO NOT use solvents, thinners or carburetor cleaners. DO NOT immerse in anything.
Service and repairs are to be done by SNA Europe/Bahco Service Center only. Contact your Bahco Torque Products representative.
Ratchet head repair kits can be ordered from a Bahco Representative.

NOTES:
- ***If display shows persistent "TORQUE ZERO ERROR" at power on, tool is damaged and must be returned for repair.***
- ***If display shows "ANGLE ERROR" in angle mode, fastener rotation speed has exceeded capacity of tool.***
- ***Tool must be held still during angle zeroing. Motion is indicated by alternating dashes "- -" on display***
- ***Remove battery when stored for extended periods (Note: clock will revert to default settings).***

BATTERY REPLACEMENT
Note: When replacing batteries, real-time-clock will maintain date and time for 20 minutes.
Note: Turn end cap counter-clockwise to unscrew for TAW wrenches, clockwise for TAS screwdrivers.
Batteries should be installed in carrier prior to carrier installation into tool. Battery negative contacts should be oriented with carrier springs.

Replace SLIM models with one single "AA" cell only



Replace STD models with three "AA" cells only.

Unscrew end cap. Insert new cells
Positive (+) end into handle first


100% BATTERY LEVEL


50% BATTERY LEVEL

LOW BATTERY

REPLACE BATTERY

Note: When Replace Battery screen is displayed tool will no longer operate until batteries are replaced. Only POWER button functions which immediately turns off tool.

MEMORY INDICATORS

DATA IN MEMORY
Less than 50 torque and angle records stored in memory.

MEMORY FULL
50 torque or angle records stored in memory.
New records will not be recorded until memory is cleared (on STD wrenches only).
New data will replace oldest record until memory is cleared (on SLIM/SCR only)

MEMORY ERROR
Memory read or write error.

SNAEurope **2018/11/5**

CE

(ENG) EC DECLARATION OF CONFORMITY
(FRA) DÉCLARATION DE CONFORMITÉ CE
(ESP) DECLARACIÓN DE CONFORMIDAD DE LA CE
(POR) DECLARAÇÃO DE CONFORMIDADE EC
(ITA) DICHIARAZIONE DI CONFORMITA' CE
(GER) EG-KONFORMITÄTSERKLÄRUNG
(NED) EG- VERKLARING VAN OVEREENSTEMMING
(POL) EC DEKLARACJA ZGODNOŚCI
(SWE) CE DEKLARATION

(DEN) EF-VERENSSTEMMELSESERKLÆRING
(NOR) ECSAMSVERKLARING
(FIN) EY-VAATIMUSTENMUKAISUUSVAKUUTUS
(RUS) Декларация о соответствии ЕС
(TUR) CE STANDARDİZASYON BEYANI
(CZE) PROHLÁŠENÍ O SHODĚ
(SVK) PREHLÁSENIE O ZHODE
(GRE) ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ ΜΕ ΕΕ

(ENG) Hereby declares that: / The device:
(FRA) Déclare par la présente que: / L´appareil:
(ESP) Declaro que: / El aparato:
(POR) Vimos por este meio declarar: / O aparéelo:
(ITA) Con la presente dichiaro che: / Dispositivo:
(GER) Hiermit wird erklärt, dass: / Die folgenden Erzeugnisse:
(NED) Hierbij verklaart dat: / Het apperaat:
(POL) Niniejszym oświadcza, że: / Urządzenia:
(SWE) Härmed deklareras att: / Enheten:

(DEN) Erklærer herved at: / enheten:
(NOR) Erklærer herved at: / enheten:
(FIN) Vakuutamme täten: / Että tuote:
(RUS) Настоящим заявляем, что: / Устройство:
(TUR) Beyan ederiz ki: / Cihaz:
(CZE) Níže prohlašujeme, že: / výrobek:
(SVK) Týmto prehlasujeme, že : / Výrobok:
(GRE) Δηλώνει ότι: / Η συσκευή:

(ENG) Type(s) (FRA) Type(s) (ESP) Tipo(s) (POR) Tipo (ITA) Tipo (GER) Type(s) (NED) Typen (POL) Typ (SWE) Typ (DEN) Typ (NOR) Typ (FIN) Tyyppi (RUS) Тип (TUR) Tip (CZE) Typ (SVK) Typ (GRE) Τύπος:	**TAWM912M** **TAWM930M** **TAWM9135** **TAWM14340** **TAWM24800** **TAW1412M** **TAW1430M** **TAW38135** **TAW12340** **TAW34800**	(ENG) Product (FRA) Produit (ESP) Producto (POR) Produto (ITA) Prodotto (GER) Produkt (NED) Product (POL) Produkt (SWE) Produkten (DEN) Produktet (NOR) Produktet (FIN) Tuotteen (RUS) Изделие (TUR) Ürün (CZE) Výrobek (SVK) Výrobok (GRE) Προϊόν:	Electronic Torque and angle Wrench Clé dynamométrique Couple et Angle Llave dinamométrica de par y ángulo Chave dinamométrica torção e ângulo Chiave dinamometrica coppia/angolo Drehwinkel-Drehmomentschlüssel Momentsleutel met hoekmeting Klucz dynamometryczny kątowy Elektronisk Momentnyckel Elektronisk momentnøgle Momentnøkkel, moment og grader Momenttiavain Электронный динамометрический ключ с функцией предустановки угла затягивания Elektronik Açılı Tork Anahtarı Elektronický momentový klíč s úhlovým měřením Elektronické momentové uhlové kľúče Ηλεκτρονικό κλειδί ροπής και γωνίας	(ENG) Year (FRA) Année (ESP) Año (POR) Ano (ITA) Anno (GER) Baujahr (NED) Jaar (POL) Rok (SWE) År (DEN) År (NOR) År (FIN) Vuosi (RUS) Год (TUR) Sene (CZE) Rok (SVK) Rok (GRE) Χρόνος:	**2018**

(ENG) Was manufactured in conformity with the provisions in the:
(FRA) A été fabriqué en conformité avec les dispositions des:
(ESP) Está fabricada según las disposiciones de:
(POR) Foi fabricado em conformidade com os pressupostos:
(ITA) Prodotto in conformità con le disposizioni:
(GER) In Übereinstimmung mit den Bestimmungen der:
(NED) Is vervaardigd in overeenstemming met de bepalingen in de:
(POL) Został wyprodukowany zgodnie z przepisami:
(SWE) Producerats enligt bestämmelserna i följande direktiv:

(DEN) Produsert i samsvar med bestemmelsene i:
(NOR) Produsert i samsvar med bestemmelsene i:
(FIN) On valmistettu noudattaen säännöksiä:
(RUS) Было произведено в соответствии с положениями:
(TUR) Aşağıdaki Standartlara uygun üretilmiştir:
(CZE) Byl vyroben ve shodě s předpisy:
(SVK) Bol vyrobený v zhode s predpismi:
(GRE) Κατασκευάστηκε σύμφωνα με τις διατάξεις του:

2014/30/EC; 2011/65/EU; 2012/19/EU
EN 61326-1:2013; EN 55011:2009; EN 61000-4-2:2008-12; EN 61000-4-3; Ed. 3-2:2010-04; EN 61000-4-8; 2009-09

(ENG) Person authorized to compile the technical file (TCF):
(FRA) Personne autorisée à constituer le dossier technique:
(SPA) Persona facultada para elaborar el expediente técnico:
(POR) Pessoa autorizada para elaborar o dossier técnico:
(ITA) Persona autorizzata a compilare la pratica tecnica
(GER) Bevollmächtigte(r) zum Zusammenstellen technischer Unterlagen:
(NLD) Persoon die is gemachtigd het technisch dossier samen te stellen
(POL) Osoba odpowiedzialna za zestawianie pliku technicznego
(SWE) Person som är behörig att sammanställa den tekniska dokumentationen:
(DAN) Person bemyndiget til at udarbejde tekniske beskrivelser:
(NOR) Autorisert person for utarbeidelse av den tekniske filen:
(FIN) Henkilö on valtuutettu kokoamaan teknisen tiedoston
(TUR) Teknik dosyayı düzenlemeye yetkili kişi:
(RUS) Лицо, уполномоченное на составление технической документации:
(CZE) Autorizovaná osoba pro sestavení technického spisu:
(SLO) Osoba zodpovedná za vypracovanie technickej dokumentácie:
(GRE) Άτομο εξουσιοδοτημένο να καταρτίσει τον τεχνικό φάκελο

Sergio Calvo

Antigua ctra. Altube Km 5,5 - 01196 Arangiz, SPAIN

SNA EUROPE – 16 Allé Rosa Luxemburg, Eragny-sur-Oise, 95610 Cergy Pontoise Cedex, France – Phone: +33 1 39099868 – Fax : +33 1 39099881

SNAEurope **2018/11/5**

CE

(ENG) EC DECLARATION OF CONFORMITY
(FRA) DÉCLARATION DE CONFORMITÉ CE
(ESP) DECLARACIÓN DE CONFORMIDAD DE LA CE
(POR) DECLARAÇÃO DE CONFORMIDADE EC
(ITA) DICHIARAZIONE DI CONFORMITA' CE
(GER) EG-KONFORMITÄTSERKLÄRUNG
(NED) EG- VERKLARING VAN OVEREENSTEMMING
(POL) EC DEKLARACJA ZGODNOŚCI
(SWE) CE DEKLARATION

(DEN) EF-VERENSSTEMMELSESERKLÆRING
(NOR) ECSAMSVERKLARING
(FIN) EY-VAATIMUSTENMUKAISUUSVAKUUTUS
(RUS) Декларация о соответствии ЕС
(TUR) CE STANDARDİZASYON BEYANI
(CZE) PROHLÁŠENÍ O SHODĚ
(SVK) PREHLÁSENIE O ZHODE
(GRE) ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ ΜΕ ΕΕ

(ENG) Hereby declares that: / The device:
(FRA) Déclare par la présente que: / L´appareil:
(ESP) Declaro que: / El aparato:
(POR) Vimos por este meio declarar: / O aparéelo:
(ITA) Con la presente dichiaro che: / Dispositivo:
(GER) Hiermit wird erklärt, dass: / Die folgenden Erzeugnisse:
(NED) Hierbij verklaart dat: / Het apperaat:
(POL) Niniejszym oświadcza, że: / Urządzenia:
(SWE) Härmed deklareras att: / Enheten:

(DEN) Erklærer herved at: / enheten:
(NOR) Erklærer herved at: / enheten:
(FIN) Vakuutamme täten: / Että tuote:
(RUS) Настоящим заявляем, что: / Устройство:
(TUR) Beyan ederiz ki: / Cihaz:
(CZE) Níže prohlašujeme, že: / výrobek:
(SVK) Týmto prehlasujeme, že : / Výrobok:
(GRE) Δηλώνει ότι: / Η συσκευή:

(ENG) Type(s) (FRA) Type(s) (ESP) Tipo(s) (POR) Tipo (ITA) Tipo (GER) Type(s) (NED) Typen (POL) Typ (SWE) Typ (DEN) Typ (NOR) Typ (FIN) Tyyppi (RUS) Тип (TUR) Tip (CZE) Typ (SVK) Typ (GRE) Τύπος:	**TAS14S09** **TAS14S007** **TAS14H09** **TAS14H007**	(ENG) Product (FRA) Produit (ESP) Producto (POR) Produto (ITA) Prodotto (GER) Produkt (NED) Product (POL) Produkt (SWE) Produkten (DEN) Produktet (NOR) Produktet (FIN) Tuotteen (RUS) Изделие (TUR) Ürün (CZE) Výrobek (SVK) Výrobok (GRE) Προϊόν:	Electronic Torque and angle screwdriver Tournevis dynamométrique Couple et Angle Destornillador dinamométrico de par y ángulo Chave de fenda dinamométrica torção e ângulo Cacciavite dinamometrica coppia/angolo Drehwinkel-Drehmomentschraubendreher Momentschroevendraaier met hoekmeting Śrubokręt dynamometryczny kątowy Elektronisk Momentskruvmejsel Elektronisk momentskruetrækker Momentskrutrekker, moment og grader Momenttiruuvimeisseli Электронная крутящаяся и угловая отвертка Elektronik Açılı Tork tornavida Elektronický momentový šroubovák s úhlovým měřením Elektronické momentové uhlové skrutkovač Ηλεκτρονικό κατσαβίδι και ψωνιακό κατσαβίδι
		(ENG) Year (FRA) Année (ESP) Año (POR) Ano (ITA) Anno (GER) Baujahr (NED) Jaar (POL) Rok (SWE) År (DEN) År (NOR) År (FIN) Vuosi (RUS) Год (TUR) Sene (CZE) Rok (SVK) Rok (GRE) Χρόνος:	**2018**

(ENG) Was manufactured in conformity with the provisions in the:
(FRA) A été fabriqué en conformité avec les dispositions des:
(ESP) Está fabricada según las disposiciones de:
(POR) Foi fabricado em conformidade com os pressupostos:
(ITA) Prodotto in conformità con le disposizioni:
(GER) In Übereinstimmung mit den Bestimmungen der:
(NED) Is vervaardigd in overeenstemming met de bepalingen in de:
(POL) Został wyprodukowany zgodnie z przepisami:
(SWE) Producerats enligt bestämmelserna i följande direktiv:

(DEN) Produsert i samsvar med bestemmelsene i:
(NOR) Produsert i samsvar med bestemmelsene i:
(FIN) On valmistettu noudattaen säännöksiä:
(RUS) Было произведено в соответствии с положениями:
(TUR) Aşağıdaki Standartlara uygun üretilmiştir:
(CZE) Byl vyroben ve shodě s předpisy:
(SVK) Bol vyrobený v zhode s predpismi:
(GRE) Κατασκευάστηκε σύμφωνα με τις διατάξεις του:

2014/30/EU; 2011/65/EU; 2012/19/EU
EN 55011:2016; EC 61326-1:2013; EN 61000-6-1:2007; EN; 61000-6-2:2005; EN 61000-6-3:2017 + A1:2011; EN 61000-6-4:2017 + A1:2011; EN 50581:2012

(ENG) Person authorized to compile the technical file (TCF): (FRA) Personne autorisée à constituer le dossier technique: (SPA) Persona facultada para elaborar el expediente técnico: (POR) Pessoa autorizada para elaborar o dossier técnico: (ITA) Persona autorizzata a compilare la pratica tecnica (GER) Bevollmächtigte(r) zum Zusammenstellen technischer Unterlagen: (NLD) Persoon die is gemachtigd het technisch dossier samen te stellen (POL) Osoba odpowiedzialna za zestawianie pliku technicznego (SWE) Person som är behörig att sammanställa den tekniska dokumentationen: (DAN) Person bemyndiget til at udarbejde tekniske beskrivelser: (NOR) Autorisert person for utarbeidelse av den tekniske filen: (FIN) Henkilö on valtuutettu kokoamaan teknisen tiedoston (TUR) Teknik dosyayı düzenlemeye yetkili kişi: (RUS) Лицо, уполномоченное на составление технической документации: (CZE) Autorizovaná osoba pro sestavení technického spisu: (SLO) Osoba zodpovedná za vypracovanie technickej dokumentácie: (GRE) Άτομο εξουσιοδοτημένο να καταρτίσει τον τεχνικό φάκελο	**Sergio Calvo** Antigua ctra. Altube Km 5,5 - 01196 Arangiz, SPAIN

SNA EUROPE – 16 Allé Rosa Luxemburg, Eragny-sur-Oise, 95610 Cergy Pontoise Cedex, France – Phone: +33 1 39099868 – Fax : +33 1 39099881

SNA Europe

20-2104-BA REV-2