



HILTI SI-AT-A22 Adaptive Torque Module Instruction Manual

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Original operating instructions

1 Information about the documentation

1.1 About this documentation

- Read this documentation before initial operation or use. This is a prerequisite for safe, trouble-free handling and use of the product.
- Observe the safety instructions and warnings in this documentation and on the product.
- Always keep the operating instructions with the product and make sure that the operating instructions are with the product when it is given to other persons.

1.2 Explanation of symbols used

1.2.1 Warnings

Warnings alert persons to hazards that occur when handling or using the product. The following signal words are used:



DANGER





- Draws attention to imminent danger that will lead to serious personal injury or fatality.

WARNING

- Draws attention to a potential threat of danger that can lead to serious injury or fatality.

CAUTION


- Draws attention to a potentially dangerous situation that could lead to personal injury or damage to the equipment or other property.

	Read the operating instructions before use.
	Instructions for use and other useful information
	Dealing with recyclable materials
	Do not dispose of electric equipment and batteries as household waste



1.2.3 Symbols in the illustrations

The following symbols are used in illustrations:

2	These numbers refer to the corresponding illustrations found at the beginning of these operating instructions
3	The numbering reflects the sequence of operations shown in the illustrations and may deviate from the steps described in the text
11	Item reference numbers are used in the overview illustrations and refer to the numbers used in the product overview section
	This symbol is intended to draw special attention to certain points when handling the product.


1.3 Product-dependent symbols

1.3.1 Symbols on the product

The following symbols are used on the product:

--- Direct current (DC)

1.4 Product information

 products are designed for professional users and only trained, authorized personnel are permitted to operate, service and maintain the products. This personnel must be specifically informed about the possible

hazards. The product and its ancillary equipment can present hazards if used incorrectly by untrained personnel or if used not in accordance with the intended use.

The type designation and serial number are printed on the rating plate.

- Write down the serial number in the table below. You will be required to state the product details when contacting Hilti Service or your local Hilti organization to inquire about the product.

Product information

Type	SIATA22
Generation	01
Serial no.	

2 Safety

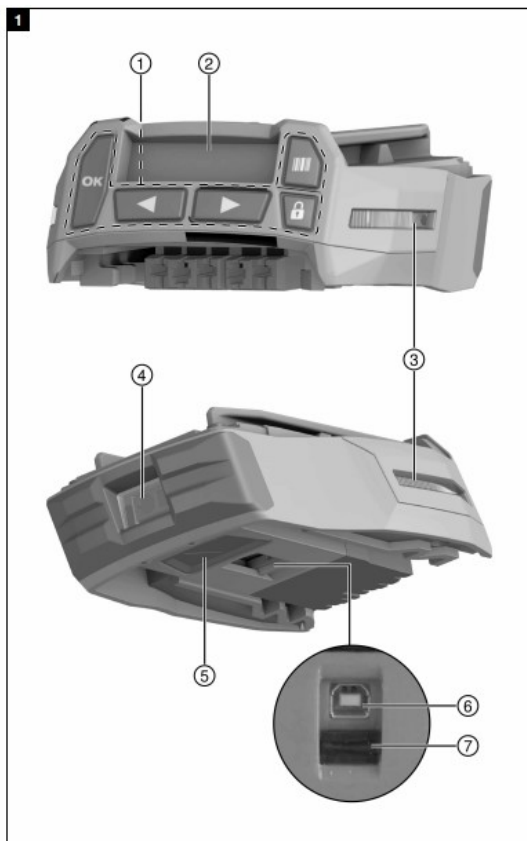
2.1 Safety precautions

- Observe the safety precautions in the operating instructions for the wrench.

3 Description

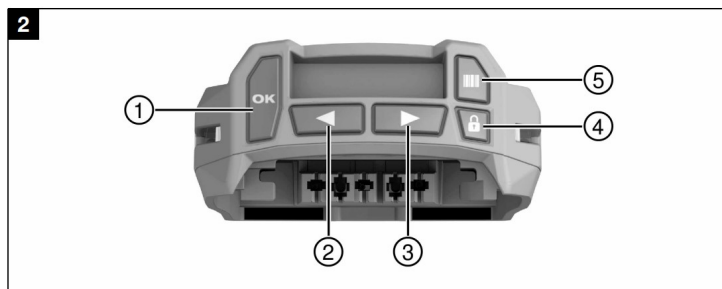
3.1 Adaptive torque module 1

1. Control panel buttons
2. Liquid crystal display
3. Indicator LEDs
4. Barcode scanner
5. Release button
6. USB port
7. USB port cover (shown open in the illustration)



3.2 Control panel buttons 2

1. OK button
2. Left arrow button
3. Right arrow button
4. Lock button
5. Scan button



3.3 Intended use

The product described is an electronic module that can be used with Hilti impact wrenches of the types SI... ..AT-A22 (“...” = any character) to tighten threaded fasteners under controlled conditions, thereby safeguarding the quality of the bolted connection. A record of the work carried out is saved in the module and can be read out, for documentation purposes, using the

AT Documentation Software PC application.

It is not possible to set a particular torque manually on this module!

- Use only **Hilti** Liion batteries of the B 22 series with this product.
- Use only **Hilti**- approved battery chargers to charge these batteries. More information is available from your **Hilti Store** or from www.hilti.group

- Use only the impact-wrench sockets described in the operating instructions of the relevant product to tighten **Hilti** fasteners.

3.4 Possible misuse

This product is not suitable for Hilti fasteners in nuclear power plants! For more information contact Hilti Service.

3.5 Indicator LEDs

The LEDs on each side of the module indicate the following:

Status	Meaning
The LEDs show green.	When scanning: the barcode or QR code has been recognized. • When tightening, after the impact wrench has switched off automatically: the tightening operation was completed successfully.
The LEDs flash red.	<ul style="list-style-type: none"> • When scanning: the barcode or QR code was not recognized. • When tightening, after the impact wrench switches off: The threaded fastener could not be tightened in accordance with the selected settings. The reason for this could be, for example, that the impact wrench was switched off manually before the correct torque was achieved.
The LEDs flash yellow.	<ul style="list-style-type: none"> • Depending on the fastener, the module has detected the following: • A) The threaded fastener of the stud anchor had already been tightened and subsequently slackened. Consequently, the threaded fastener has been retightened in accordance with the defined parameters for retightening, and the tightening operation has been completed successfully. • B) The threaded fastener for installation systems and cast-in anchor channels had already been tightened, but the module issued a warning to tell whether the correct tightening torque was applied. If the T-bolt of the cast-in anchor channel was not tightened with a calibrated torque wrench or if the indicator LEDs of the module do not show green, the threaded fastener has to be checked with a calibrated torque wrench and - if necessary – tightened to the correct installation torque.

3.6 Buzzer

- The buzzer in the adaptive torque module emits the following signal tones as audible feedback:
- Long buzz: Confirmation signal (OK / operation completed successfully)

- 2 short buzzes, the LEDs flash yellow: Warning 1 (OK or, as applicable, not OK / repeat tightening)
- 4 short buzzes, the LEDs flash red: Warning 2 (not OK / operation aborted)

3.7 USB connection

The USB port can be used to connect the adaptive torque module to a PC.

When this connection is made, the **AT Documentation Software** offers a range of functions, including:

- Adding new data records for new fasteners
- Changing / updating existing data records
- Deactivating / activating the documentation function
- Loading the log from the documentation function
- Setting the clock in the torque module



Further information can be found in the documentation for the **AT Documentation Software**.

The software can be downloaded from here:

http://www.hilti.com/adaptive_torque_documentation_software

3.8 Items supplied

Adaptive torque module, operating instructions, quick-start guide, USB cable.

Other system products approved for use with this product can be found at your local Hilti Store or at:

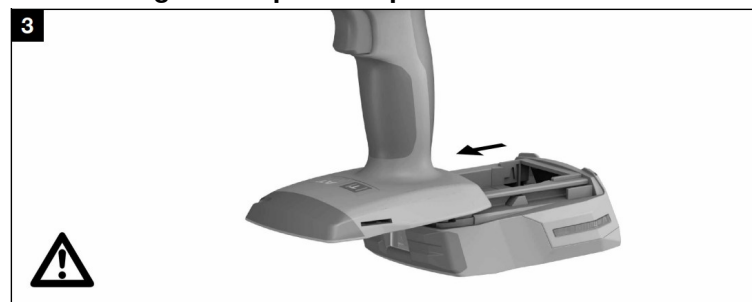
www.hilti.group

4 Technical data

Weight in accordance with EPTA procedure 01	0.26 kg
Bar code scanner	Camera / scanner (imager)

5 Operation

5.1 Inserting the adaptive torque module 3



WARNING
Risk of short circuit !

- Before inserting the torque module, make sure that the contacts on the torque module and the contacts on the impact wrench are free of foreign matter.



WARNING

Risk of injury by a falling torque module !

- Check that the torque module is secure on the impact wrench.
- Push the torque module on to the impact wrench from the rear until it engages with an audible click.

5.2 Inserting the battery 4



WARNING

Risk of short circuit !

- Before inserting the battery, make sure that the contacts on the battery and the contacts on the torque module are free of foreign matter.

WARNING


Risk of injury by a falling battery !

- Check that the battery is secure on the torque module.
- Push the battery on to the torque module from the rear until it engages with an audible click.

5.3 Switching on and off

5.3.1 Switching on the torque module

Conditions: The torque module is switched off, the display is blank.

1. Set the forward/reverse switch on the impact wrench to the “forward” position.
2. Short-press the control switch on the impact wrench.
 - The display lights up and briefly shows the  start screen.
 - As a function check the LEDs briefly show red and yellow, before turning green. An acoustic signal sounds.
 - The last operating mode selected appears inside a selection frame on the display.
 - If the display shows a fault:

- Refer to the “Troubleshooting” section for information about possible causes of error messages and the steps to be taken to rectify the problem.

3. Press the lock button.

- The torque module is now locked and the impact wrench is ready for use.

5.3.2 Switching off the torque module

The adaptive torque module switches itself off automatically:

- when the impact wrench switches off automatically after a long idle period
- when the battery is removed
- when a USB connector is unplugged, interrupting the USB connection between the torque module and the PC.


5.4 Basic operation





This section explains the most frequently used basic functions in order to illustrate how the module is used. A detailed description of certain operations can be found in the sections covering specific applications.

Unlocking the module

The adaptive torque module has to be unlocked before changes can be made to the settings.

- To unlock the adaptive torque module, press the  lock button and hold it down for at least 1 second.
- In the display a selection frame appears around the last previously shown type of fastener and the last previously shown operating mode.
- The torque module is unlocked and in setting mode. The impact wrench is deactivated.

Navigation

When the selection frame and two or more elements (options, parameters) are visible in the display, you can move the selection frame by pressing the arrow buttons  and .


Selecting options / changing parameters

When the torque module is unlocked, you can change options or parameters as described below.

- Position the selection frame in the display on the element (option / parameter) you want to change.
- Press the OK button.
 - A black background appears behind the element.
- Use the arrow buttons to select the setting you want.
- Press the OK button to accept the setting.
- The element reappears surrounded by the selection frame.

Locking the module

When you have made all your changes you have to relock the adaptive torque module.

- Press the lock button .
- The selection frame disappears. Your operating parameters settings have now been saved and cannot be changed accidentally.
- The adaptive torque module is locked and the impact wrench is reactivated.

5.5 Basic settings






5.5.1 Calling up the “Basic settings” menu

1. If it is locked, unlock the torque module by pressing the lock button and holding it down for at least 1 second.
2. Press the OK button and hold it down for at least 1 second.
 - The “Basic settings” menu appears on the display.

5.5.2 Selecting functions from the basic settings menu

1. Use the arrow buttons to move the selection frame to the symbol for the desired function.

Functions in the “Basic settings” menu

Symbol	Function
	Show the date and time set in the torque module's clock The AT Documentation Software has to be used to set the clock.
	Show the remaining time / period of use until servicing of the im-pact wrench is due
	Show the percentage of memory used in the torque module When the reading reaches 100%, the oldest data will be overwritten. You can use the AT Documentation Software to export the logged data and clear the torque module's memory. Hilti recommends exporting the data and saving the exported data at regular intervals.
	Show the version of the software installed on the torque module
	Exit the “Basic settings” menu

2. Press the OK button.




5.5.3 Display showing maintenance status / remaining period of use

After activation of the symbol in the basic settings menu the remaining period of use of the impact wrench until the next service is shown in the following display screens.




Irrespective of what is shown in the display, the impact wrench must be serviced at least once a year in order to ensure the quality of the bolt fastenings made with it.

Display icons for maintenance status of the impact wrench

Display	Meaning
	The impact wrench is in good condition, no maintenance required at this time.
	Maintenance of the impact wrench will soon be due. The segments in the rectangle on the right in the display indicate residual usage period.
	Maintenance of the impact wrench must be carried out immediately. Important: This warning appears automatically when the residual usage period expires. The “Adaptive” and “Tightening” operating modes can no longer be selected.

5.5.4 Leaving the basic settings menu

1. Move the selection frame to the  symbol.
2. Press the OK button.
 - The last previously shown operating mode will be displayed.

5.6 Operating modes



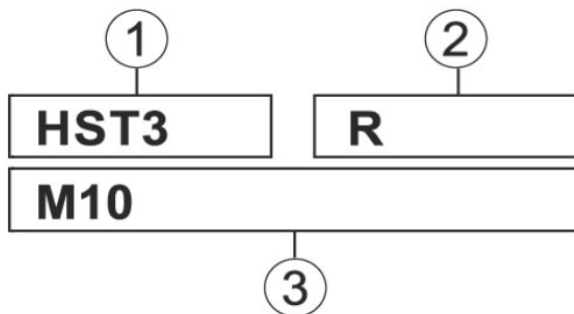
The descriptions of the individual operating modes below apply only to forward rotation of the impact wrench (tightening). In reverse (slackening), the action of the impact wrench is not controlled.

5.6.1 Adaptive operation

In “Adaptive ” operating mode, the adaptive torque module regulates the tightening of the selected type of fastener. The tightening parameters from the most recently installed software update are used. Product designations and tightening parameters can change, so it essential to ensure that the software version installed in the torque module is always up to date.

- When the “Adaptive” operating mode is selected, the impact wrench’s “AT” torque indicator lights up.
- The switch for selecting the operating stage is not active. But you cause the control switch to turn the impact wrench ON and OFF. Follow the operating instructions for your impact wrench.

Parameters in “Adaptive” operating mode



1. Type of fastener (short name of the fastener)
2. Material / material grade / product details
3. Diameter (if present)

The illustration shows the layout of the operating parameters on the display.

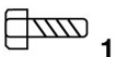
Type of fastener

Parameters for various types of fastener are saved ex-works in the torque module.

The fastener shown must correspond to the fastener used. Further information can be found in the quick-start guide of the SI-AT-A22 and in the operating instructions of the fastener you use.

5.6.2 “Tightening” operating mode

In this operating mode a total of 30 torque settings are available. The setting to be selected for a particular type of fastener depends on the diameter of the fastener and the specified torque. The setting has to be determined step by step on the basis of these data .For the “Tightening” operating mode, the display shows the following:



The number to the right of the threaded-fastener symbol shows the selected setting.

5.6.2.1 Determining the required setting for the “Tightening” operating mode



1. **ATTENTION:** Before starting to tighten a threaded fastener, always check that the mating faces of the components to be joined are seated flat against each other and that the nut has been screwed down until it is seated against the component.
2. Use a low setting for initial tightening of the fastener.
 - Start the step-by-step process with as low a setting as possible, to avoid the possibility of overtightening and damaging the fastener.
3. Use a calibrated torque wrench to check the torque applied to the fastener.



For repeatable torqueing of two or more identical fasteners, make sure that all torqueing conditions remain unchanged. A change in torqueing conditions can necessitate a change to a different stage.

Result 1 / 3

The specified tightening torque of the fastener to be tightened was not achieved.

- Back off the fastener and set the torque module to a higher stage.
- Tighten the fastener with the new stage setting and repeat this test step.

Result 2 / 3

- The specified tightening torque of the fastener to be tightened was exceeded.
- Back off the fastener and set the torque module to a lower stage.
- Tighten the fastener with the new stage setting and repeat this test step.

Result 3 / 3


The fastener was tightened to the specified tightening torque.

This stage setting is correct for this fastener.

5.6.3 “Unregulated” operating mode

In this operating mode the adaptive torque module is deactivated. The impact wrench works as though the adaptive torque module were not fitted to the tool. The adaptive torque module therefore does not have to be actually removed when it is not needed for short periods of use. In the “Unregulated” operating mode the display shows the following:



In “Unregulated” mode the impact wrench’s “AT” torque indicator does not light up, but the button on the impact  wrench for selecting the various stages is operational.

5.7 Setting the operating mode

- There are 2 ways of setting the operating mode to suit the type of fastener:
- Scan the barcode or QR code on the packaging of the Hilti product you are going to tighten.
- Manual adjustment using the buttons on the torque module

Scanning the barcode or QR code

If a barcode or a QR code is available for the Hilti product to be tightened, the operating mode can be set correctly for the product quickly and easily by scanning the code.

- Set the operating mode by scanning the barcode or QR code.

Manual adjustment

If no barcode or QR code is available for the product to be tightened, the operating mode can be set by using the buttons on the torque module.



The “Unregulated” operating mode can be set only manually.


- Select the operating mode with the control panel buttons.



5.7.1 Setting the operating mode with the control panel buttons

1. Unlock the torque module.
2. Use the arrow buttons to move the selection frame, as necessary, to the option you want to change.
3. Press the OK button.
 - A black background appears behind the option you selected.
4. Use the arrow buttons to select the desired setting.
5. Press the OK button.
 - The selected setting appears in the selection frame.
6. Repeat the last 3 steps as necessary to make other changes.
7. Lock the torque module.

5.7.2 Setting the operating mode by scanning the barcode or QR code 5



1. Unlock the torque module.
2. Press the “Scan” button.
 - The scanner is activated and the  symbol appears on the display to indicate that the scanner is ready.
3. Hold the module facing the barcode or QR code at a distance of approx. 15 centimeters (6”), so that the code is inside the frame projected by the scanner.
 - The LEDs show green.
 - The confirmation tone sounds.
 - The operating mode for the product to be tightened appears on the display.

- The LEDs flash red.
- The warning tone sounds.
-   appears on the display (code could not be read or was not recognized).
- Press the “Scan” button and scan the code again.



Operating parameters for the product to be tightened might not yet be available in the torque module’s memory. If the product is SI-AT-compatible, you can scan the QR code of the corresponding product in the SI-AT-A22 operating instructions. In this way you can write the operating parameters into the memory of the SI-AT module. The operating parameters for the product can also be uploaded to the torque module via USB with the **AT Documentation Software**. Regularly check for updates to the software installed in the torque module in order to ensure that the latest parameters are always applied.

4. Lock the torque module.


5.8 Tightening the threaded fastener in “Adaptive” operating mode




Before using the torque module, make sure that the threaded fastener to be tightened is correctly installed. Follow the instructions in the operating instructions of the product to be tightened and the information on checking the fasteners.


1. Select the “Adaptive” operating mode.
2. Set the forward/reverse switch to the “Forward” position.
3. Install a suitable accessory tool on the impact wrench and engage the product to be tightened.
4. Press the control switch and hold it down until the torque module returns one of the following feedback signals:

Result 1 / 4


- The symbol indicating  “Tightening completed successfully” is displayed.
- The LEDs show green.
- The confirmation tone sounds. The fastener was tightened correctly. Proceed with the next fastener of the same type.

Result 2 / 4



- The symbol indicating “Retightening  completed successfully” is displayed.
- The LEDs flash yellow.
- The warning tone sounds.

A) The threaded fastener of a stud anchor that had been tightened and subsequently slackened has been re-tightened. If the threaded fastener had not been correctly tightened beforehand, use a calibrated torque wrench to check and, if necessary, tighten to the correct tightening torque. **B)** The threaded fastener for installation systems and cast-in anchor channels had already been tightened, but the module is unable to tell whether the correct tightening torque was applied. Check the threaded fastener with a calibrated torque wrench and, if necessary , tighten it to the correct installation torque.

Result 3 / 4

- The symbols indicating “Battery  voltage too low” are displayed.
- The LEDs flash red.
- The battery does not have enough power left for tightening the next fastener.
- Press the OK button to confirm the message.
- Insert a charged battery.


Result 4 / 4

- The symbols indicating Tightening   not completed correctly” are displayed.
- The LEDs flash red.
- The warning tone sounds.
- Use a calibrated torque wrench to apply the correct tightening torque to the fastener.

5.9 Tightening the threaded fastener in “Tightening” operating mode



1. Select the “Tightening” operating mode.
2. Determine the tightening setting for the threaded fastener to be tightened → page 10 and select this setting.
3. Set the forward/reverse switch to the “Forward” position.
4. Install a suitable accessory tool on the impact wrench and engage the product to be tightened.
5. Press the control switch and hold it down until the torque module returns one of the following feedback signals:

Result 1 / 2

- The symbol indicating Tightening  completed successfully” is displayed.
- The LEDs show green.
- The confirmation tone sounds.

The fastener was tightened correctly. You can continue directly to the next fastener of the same type.

Result 2 / 2

- The symbols indicating Tightening   not completed correctly” are displayed.
- The LEDs flash red.
- The warning tone sounds.
- Use a calibrated torque wrench to apply the correct tightening torque to the fastener.

5.10 Checking fastener

All **Hilti** products are subject to a process of constant updating, which means that products not described in this documentation might also be supported by the SI-AT module. Keep the software and the operating instructions up to date at all times.

Other system products approved for use with this product, the latest operating instructions and instructions for testing can be found online at:

www.hilti.group | USA: www.hilti.com

5.10.1 Checking the fasteners of stud anchors



To ensure that the specified pretension as per the approval / operating instructions has been correctly applied when the “Adaptive” operating mode is used to tighten stud anchors, the first stud anchor and the last stud anchor always have to be checked with a calibrated torque wrench. This check of the applied installation torque has to be carried out immediately after tightening (installation) of the stud anchor. The check torque to be applied corresponds to the installation torque specified for the stud anchor in question; obtain this information from the instructions for use for this anchor issued by the stud anchor manufacturer.

- Check the fastener of the stud anchor with a calibrated torque wrench. In this process, observe the angle through which the fastener can be turned in the tightening direction.

Result 1 / 2

The fastener of the stud anchor was not turned farther than through the specified maximum angle of rotation. (< 360°). The fastener was tightened correctly.

Result 2 / 2

The fastener of the stud anchor was turned farther than through the specified maximum angle of rotation. (> 360°).

The fastener was not tightened correctly. The threaded fasteners tightened since the previous check are to be regarded as faulty and must be checked. Have the impact wrench checked by Hilti Service.

5.10.2 Checking security of the fastener for installation systems



To ensure that the specified pretension as per the approval / operating instructions has been correctly applied when the “Adaptive” operating mode is used to tighten pushbuttons, the first pushbutton and the last pushbutton always have to be checked with a calibrated torque wrench. This check of the applied installation torque has to be carried out immediately after tightening (installation) of the pushbutton. The check torque to be applied corresponds to the installation torque specified for the pushbutton in question; obtain this information from

the operating instructions for this pushbutton.



Make sure that you use the correct installation parameters for the fasteners used. Further information can be found in the operating instructions of the torque module and in the operating instructions of the relevant product.

- Check the fastener with a calibrated torque wrench. In this process, observe the angle through which the fastener can be turned in the tightening direction.

Result 1 / 2

The fastener was not turned farther than through the specified maximum angle of rotation (< 180°). The fastener has been tightened correctly.

Result 2 / 2

The fastener was turned farther than through the specified maximum angle of rotation (> 180°).

The threaded fastener has not been installed correctly. The threaded fasteners tightened since the previous check are to be regarded as faulty and must be checked. Have the impact wrench checked by Hilti Service.

5.10.3 Checking the fasteners of T-bolts in cast-in anchor channels



To ensure that the specified pretension as per the approval / operating instructions has been correctly applied when the “Adaptive” operating mode is used to tighten T-bolts, the first T-bolt and the last T-bolt always have to be checked with a calibrated torque wrench. This check of the applied installation torque has to be carried out immediately after tightening (installation) of the T-bolt.

The check torque to be applied corresponds to the installation torque specified for the T-bolt in question; obtain this information from the operating instructions for this T-bolt.

- Check the fastener of the T-bolt with a calibrated torque wrench. In this process, observe the angle through which the fastener can be turned in the tightening direction.

Result 1 / 2

The fastener was not turned farther than through the specified maximum angle of rotation ($< 360^\circ$).
The fastener was tightened correctly.

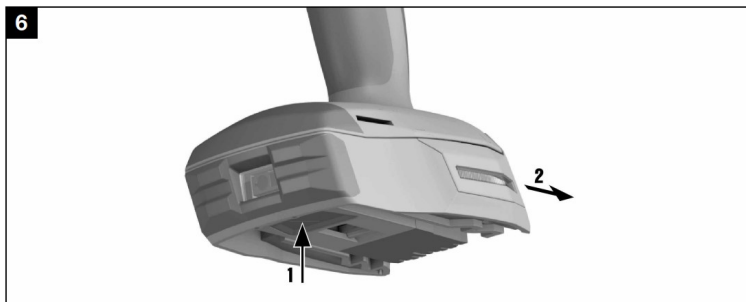
Result 2 / 2

The fastener was turned farther than the specified maximum angle of rotation ($> 360^\circ$).
The fastener was not tightened correctly. The threaded fasteners tightened since the previous check are to be regarded as faulty and must be checked. Have the impact wrench checked by Hilti Service.

5.10.4 Checking threaded fasteners tightened in the “Tightening” operating mode

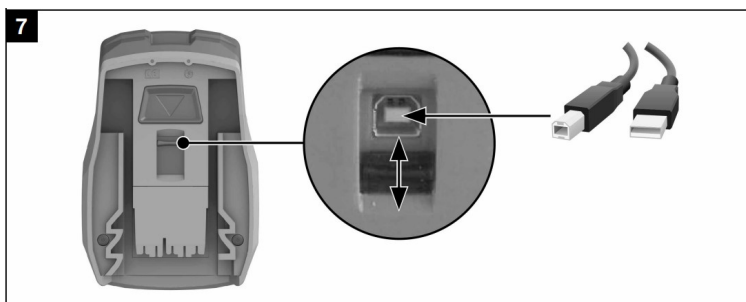
- At regular intervals, using a calibrated torque wrench and proceeding in accordance with your company regulations or quality specifications, check that specified tightening torque has been achieved.

5.11 Removing the torque module 6




1. Remove the battery.
2. Press and hold down the release button of the torque module.
3. Pull the torque module to the rear and off the impact wrench.

5.12 Connecting the torque module to a PC 7



1. Remove the torque module.
2. Open the sliding cover on the underside of the torque module.
 - The USB port is accessible.

3. Plug the connector of the USB cable (type B, USB 2.0) into the USB port of the torque module.
4. Plug the other connector of the USB cable (type A) into the PC.
 - The torque module is now powered off the PC. The USB logo  appears on the module's display.



After unplugging the USB cable from the torque module, close the cover over the USB port to protect it from dirt and dust.

6 Care and maintenance

To help ensure safe and reliable operation, use only genuine Hilti spare parts and consumables. Spare parts, consumables and accessories approved by Hilti for use with the product can be found at your local **Hilti** Center or online at: www.hilti.com

- Keep the product, especially its grip surfaces, clean and free from oil and grease. Do not use cleaning agents containing silicone.
- Clean the outer surfaces of the tool with a slightly damp cloth at regular intervals.

7 Transport and storage







- Prevent damage by transporting and storing the adaptive torque module in the storage box supplied for the purpose, or in the toolbox of the impact wrench.




8 Troubleshooting



If the problem you are experiencing is not listed in this table or you are unable to remedy the problem by yourself, please contact Hilti Service.

Please also pay attention to the troubleshooting information provided in the operating instructions for the impact wrench used..

Malfunction	Possible cause	Action to be taken
 The symbols indicating “Lock module” are displayed.		<ul style="list-style-type: none"> Press the lock button to lock the torque module and activate the impact wrench.
 The symbols indicating “Battery temperature too high” are displayed.	The battery has overheated.	<ul style="list-style-type: none"> Change the battery or allow the battery to cool down.
 The symbols indicating “Battery temperature too low” are displayed.	Battery temperature is too low.	<ul style="list-style-type: none"> Fit a battery that's at a temperature within the permissible battery operating temperature range (please refer to the operating instructions for the battery).
The symbols indicating “Impact wrench temperature too high” are displayed.	The impact wrench has overheated.	<ul style="list-style-type: none"> Allow the impact wrench to cool down and clean the air vents.
 The symbol indicating “Battery charge too low” is displayed.	The battery does not have enough power left to tighten the fastener correctly.	<ul style="list-style-type: none"> Insert a charged battery.
 The symbol indicating “Power consumption too high” is displayed.	Current input is briefly too high.	<ul style="list-style-type: none"> Press the OK button to confirm the message. Repeat the tightening operation. Contact Hilti Service if the message reappears.
 The symbols indicating “Button cell empty” are displayed.	The button cell battery for the clock in the torque module is discharged.	<ul style="list-style-type: none"> The correctness of the date and time in the documentation report can no longer be guaranteed. Contact Hilti Service and have the battery changed.

Malfunction	Possible cause	Action to be taken
 <p>The symbols indicating “Hardware fault” are displayed.</p>	A device error has been detected.	<ul style="list-style-type: none"> • Connect the torque module to a PC. • Use the AT Documentation Software program to read the fault memory and follow the troubleshooting instructions issued by the program.
 <p>The symbol indicating “Documentation function deactivated” is displayed.</p>	Documentation function deactivated (warning only).	<ul style="list-style-type: none"> • If you need the documentation function, connect the torque module to the PC and activate the documentation function in the AT Documentation Software program. • If necessary, press the OK button to hide the message and continue the starting process for the torque module.
 <p>The symbols indicating “...% of memory is in use” are displayed. (This appears when the value is $\geq 90\%$.)</p>	Usage of data memory in the torque module is indicated in percent. Note: When 100 % is reached, the oldest data will be overwritten!	<ul style="list-style-type: none"> • Connect the torque module to a PC. • Use the AT Documentation Software program to export the data to a PC. • Then delete the data from the torque module's memory to free up storage space.

9 Disposal



Most of the materials from which **Hilti** tools and appliances are manufactured can be recycled. The materials must be correctly separated before they can be recycled. In many countries, your old tools, machines or appliances can be returned to Hilti for recycling. Ask **Hilti** Service or your **Hilti** representative for further information.



- Do not dispose of power tools, electronic equipment or batteries as household waste!

10 RoHS (Restriction of Hazardous Substances)

Click on the link to go to the table of hazardous substances: qr.hilti.com/r4838537.
There is a link to the RoHS table, in the form of a QR code, at the end of this document.

11 Manufacturer's warranty

- Please contact your local Hilti representative if you have questions about the warranty conditions.

12 Declaration of conformity

We declare, on our sole responsibility, that this product complies with the applicable directives and standards. It has been tested and approved for use together with the specified products.





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Documents / Resources

	<p>HILTI SI-AT-A22 Adaptive Torque Module [pdf] Instruction Manual SI- AT -A22, Adaptive Torque Module, SI- AT -A22 Adaptive Torque Module</p>
	<p>HILTI SI-AT-A22 Adaptive Torque Module [pdf] Instruction Manual SI-AT-A22, Adaptive Torque Module, SI-AT-A22 Adaptive Torque Module, Torque Module, Module</p>

References

-  [Power Tools, Fasteners and Software for Construction - Hilti USA](#)
-  [HILTI Country selector](#)
-  [HILTI Country selector](#)
-  [Power Tools, Fasteners and Software for Construction - Hilti USA](#)
-  [hilti.com/adaptive_torque_documentation_software](#)
-  [Официальный сайт - Hilti Россия](#)