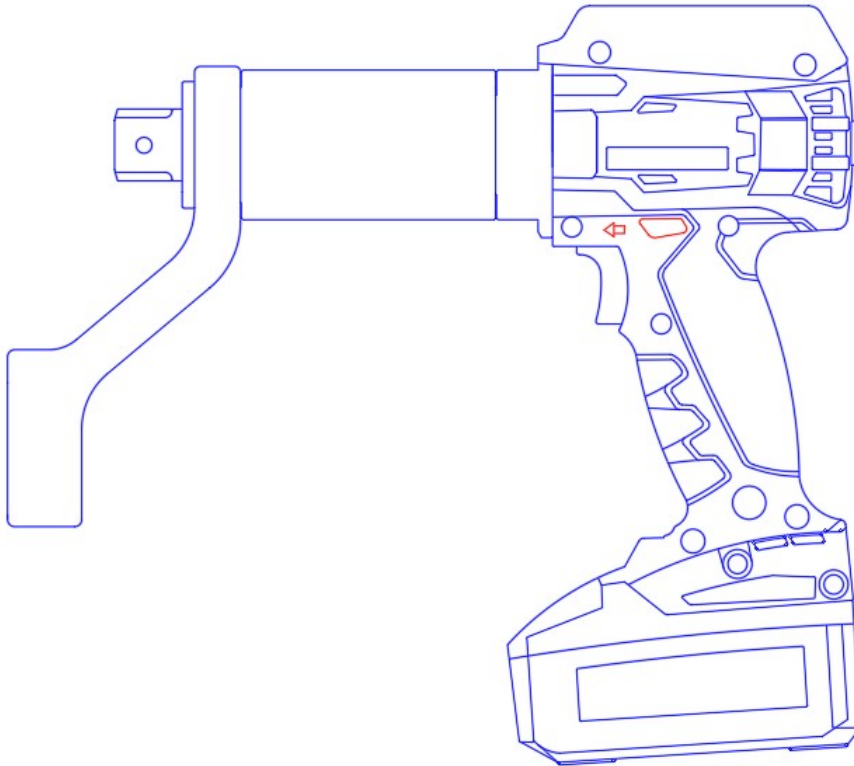




Use/Service/Safety Manual

English version May 2026

TBT series digital torque wrench



This manual contains important product information and safety instructions. Operators must read this manual before using the machine and strictly follow these instructions to ensure safety. Failure to do so may result in electric shock, fire, and/or other serious injury or property damage.

Product Model:

SERIES NO.:

Safety rules

When using power tools, be sure to comply with the safety regulations listed below to avoid or reduce accidents such as fire, electric shock, and injury. Please read the following safety rules carefully before using this tool.

Please keep this manual in a safe place!

General safety rules at work

1. Keep the work area clean and organized. Cluttered work areas and benches invite accidents.
2. Consider the work area environment. Keep the work area well lit, and do not operate power tools near flammable gases.
3. Guard against electric shock. Prevent body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators.
4. Keep children away. Do not allow children or visitors to handle the tool or its cords, and keep them out of the work area.
5. Use the right extension cord. When working outdoors, use only extension cords rated and marked for outdoor use.
6. Store idle tools properly. When not in use, tools should be kept in a dry, high place out of children's reach, or locked away in a toolbox.
7. Dress appropriately. Do not wear loose clothing or jewelry, as they can be caught in moving parts. Wear rubber gloves and non-slip footwear when working outdoors, and tie back or cover long hair.
8. Wear safety glasses. If a task creates dust, also wear a face mask or shield.
9. Watch noise levels. If the tool generates noise above 85 dB(A), wear proper hearing protection.

10. Secure the workpiece. Use clamps to hold the workpiece; this is safer than using your hands and frees both hands to operate the tool.
11. Don't overreach. Keep proper footing and balance at all times, and avoid reaching over the tool.
12. Avoid accidental starting. Never carry a plugged-in tool with your finger on the switch, and make sure the switch is off before plugging it in.
13. Stay alert. Watch what you're doing and use common sense. Do not operate a tool when you are tired.
14. Disconnect the tool. Unplug the tool and wait for it to come to a complete stop before servicing it or changing accessories such as blades or bits.
15. Remove adjusting keys and wrenches. Form the habit of checking that keys and wrenches are removed from the tool before turning it on.

Use the right tools.

Don't force a small tool to do a job meant for a heavy-duty tool. Tools perform best and most safely when used within their intended range. Using accessories not recommended in this manual can be hazardous.

1. Use the tool only for its intended purpose. Do not use power tools for tasks other than those specified.
2. Do not force the tool. It will do the job better and more safely at the rate for which it was designed. Operating beyond the rating shown on the nameplate can overload the motor, reduce accuracy, and damage the tool.
3. Don't abuse the cord. Never carry the tool by its cord or yank the cord to disconnect it from the outlet. Keep the cord away from heat, oil, and sharp edges.
4. Maintain tools with care. Keep tools clean and in good condition for the best and safest performance. Follow instructions for lubricating

and changing accessories. Inspect cords periodically, and have a qualified technician repair or replace any that are damaged. Keep handles dry, clean, and free of oil and grease.

5. Check for damaged parts. Before using the tool, carefully inspect any guard or other part that appears damaged to confirm it will operate properly and perform its intended function. Check for alignment of moving parts, binding, breakage, mounting, and any other condition that may affect operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center, unless otherwise indicated in this manual. Do not use the tool if the switch does not turn it on and off; have a defective switch replaced by an authorized service center.

6. Use only specified replacement parts when servicing tools or replacing components. This tool complies with the relevant safety standards; to avoid hazards, power tools should be serviced only by qualified personnel.

7. This tool is a torque wrench with a reaction arm. The reaction arm absorbs the substantial torque the tool generates, so it is essential to brace the reaction arm against a support point strong enough to hold it during operation. For your safety, keep all parts of your body clear of the reaction arm's range of motion while the tool is running — contact can cause severe injury.

8. Lock the brake mechanism before applying torque with the rechargeable torque wrench. If it is not locked, the torque generated by the wrench's gearbox will transfer directly to the operator, which can cause serious injury or property damage.

Safety rules for using charging stand

Notice! The charging stand and lithium battery box are designed to work together as a matched set. Use only the charging stand specified in this manual to charge the battery box.

This manual contains important safety and operating instructions. Read through the instructions for the charging stand, battery box, and charging accessories before use.

1. Keep the charging stand out of rain and snow. It is designed to charge only the matching TORC lithium battery box, and must not be used for any other purpose — doing so can create a risk of fire or electric shock.
2. Do not connect two charging stands in series.
3. Keep the charging stand away from heat sources and high-temperature objects.
4. Never store or use the tool and battery box where the temperature reaches or exceeds 40°C (105°F), such as outdoors or inside a metal building in summer.
5. This charging stand is designed for standard household power and must not be used with any other voltage. Confirm that your power supply matches the rated voltage shown on the charging stand's nameplate.
6. The vents on the charging stand are for airflow. Do not place anything on top of the stand or cover its underside — blocking the vents can cause internal overheating.
7. To avoid damaging the plug and cord, disconnect the charging stand by pulling the plug, not the cord.
8. Route the cord so it can't be stepped on, tripped over, or damaged.
9. Avoid using extension cords unless absolutely necessary; improper use can create a risk of fire or electric shock.
10. Any extension cord used must meet minimum wire-gauge requirements — the thicker the wire, the greater the current it can safely carry. If you connect multiple extension cords together, make sure each one meets the minimum gauge requirement.
11. Unplug the charging stand before cleaning it to reduce the risk of electric shock.
12. Do not operate the charging stand if the cord or plug is damaged — have it replaced immediately by a professional repair center.
13. If the charging stand is struck, dropped, or damaged in any way, stop using it and send it to a professional repair center.

14. Do not disassemble the charging stand. It contains no user-serviceable parts; repairs must be handled by a professional repair center to avoid damaging internal components or creating a risk of fire or electric shock.

Warning:

The charging terminals on the charging stand carry live voltage. Do not touch them with your hands or any conductive object — doing so risks electric shock.

Safety rules for using lithium battery boxes

When you remove the battery box from the carton, it is not fully charged. Read the following instructions before charging it for the first time.

1. Do not incinerate lithium battery packs even if they are severely damaged or completely exhausted, as lithium battery packs can explode in fire.
 2. Do not carry multiple battery boxes together with other metal objects in a pocket or toolbox — contact between terminals can short-circuit the batteries, damage the box, and cause burns or fire.
 3. Never try to open the lithium battery box for any reason; if the shell of the lithium battery box is damaged or cracked, stop using it immediately and do not recharge it.
 4. Only the TORC charging stand may be used to charge the matching battery box.
 5. Use the correct battery box. Never use a battery box from another brand — doing so can damage the tool and cause injury.
 6. Under extreme use or temperature conditions, a small amount of liquid will leak from the lithium battery box. This does not mean that the lithium battery box has failed. However, if the case breaks and the spill gets on your skin:
 - A. Wash off quickly with soap and water.
 - B. Neutralize it with a weak acid such as lemon juice or vinegar.
 - C. If electrolyte gets into your eyes, flush them with clean water for at least 10 minutes and seek medical attention immediately.
 7. Unplug the charging stand from the power outlet whenever it isn't actively charging, and remove the battery box from the stand as well. To prevent a battery box from losing its ability to hold a charge during long storage, charge it at least once every 6 months when not in use.
- Warning:** If the battery box housing is damaged or cracked in any way, do not insert it into the charging stand — doing so risks electric shock.

Notice! When disposing of a damaged or depleted battery box, follow your local regulations for recycling this type of battery.

Lithium battery box

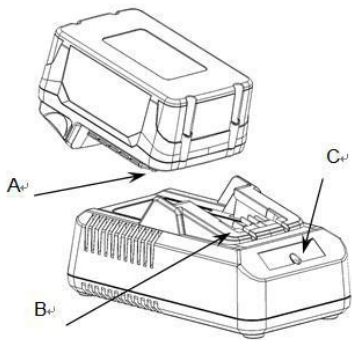
When ordering a replacement lithium battery box, be sure to specify the lithium battery box model and voltage.

model	capacity	Voltage
LI-1850	5.0Ah	18 Vdc
LI-1880	8.0Ah	18 Vdc

Charging stand

Before using the charging stand, you must read and understand all safety instructions.

model	enter	output	battery l model	Charging time
ASC30-18	220-240Vac ~ 50/60 Hz	18Vdc	LI-1850	60 min
			LI-1880	85 min



ASC30-18 Charging Dock

Charging indicator light display description

ASC30-18 charging indicator		Light display instructi ons
green light	red light	
Flashes alternately and then goes out		Connect the power supply→charging base (preparing for charging)
flashing		charging charging
Always bright		Charging completed
	flashing	Fault
flashing	flashing	High / low temperature protection

Charging steps

1. Plug the charging stand into a suitable AC outlet. The green and red indicator lights will flash alternately and then turn off, confirming the stand is powered.

2. Insert the battery box into the charging stand. The red light will turn off and the green light will begin flashing, indicating charging has started.
3. When the green light changes from flashing to solid, the battery box is fully charged and the stand switches to standby (hold) mode.
4. Remove the battery box, then insert another one to continue charging, or unplug the charging stand from the outlet.

Notice:

1. If the red and green lights flash alternately when a battery box is inserted, the battery or the surrounding temperature may be too high or too low. Wait for the temperature to normalize — charging will resume automatically.
2. If only the red light continues flashing when the battery box is inserted, remove and reinsert it. If the red light continues to flash, the battery box is faulty — contact your dealer or a service center. Do not force a faulty battery box to charge.

Notice!

Make sure the battery box is fully charged before use — this helps extend its service life.

Important charging notes:

If the battery box can no longer deliver enough power for a task it previously handled with ease, it needs to be recharged. Stop using it and follow the charging steps above.

1. When charging, the charging base and lithium battery box will feel warm when you touch them with your hands. This is normal and not a problem.
2. If the exposed charging terminals become short-circuited by conductive debris — such as steel wool, aluminum foil, or metal particles — clear the terminals before charging.

3. When the charging base is not charging, be sure to unplug the charging base from the power socket.
4. Charge the battery box at a temperature between 18°C~ 24°C(65° F ~ 75° F) for the longest life and best performance. Never charge the lithium battery box when the temperature is below 0° C (+32° F) or above +40°C (+105° F) to avoid serious damage to the lithium battery box.
6. Do not immerse the charging stand in water or any other liquid.
7. Unplug the charging stand when it isn't charging, and remove the battery box as well. To prevent loss of charge capacity during long storage, charge the battery box at least once every 6 months when not in use.

Notice!

New batteries ship in a partially discharged state, so they should be fully charged and discharged 5 to 10 times before reaching full capacity. Notice! Before charging, confirm that the battery box model matches the charging stand model.

Warning: Never let liquid enter the charging stand — this can cause electric shock. To help the battery box cool after use, avoid storing the stand and battery box in a hot environment such as a metal building or an uninsulated trailer.

Instructions

Precautions when using a cordless gear driver

Installing the battery box

Insert the battery box (Figure 1A) into the tool body (Figure 1B) until it clicks into place and locks.

Removing the battery box

Press the release button on the tool (Figure 1C) and pull the battery box out of the handle.

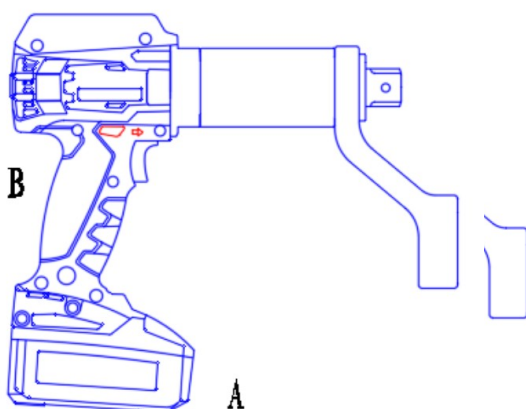


Figure 1

Switch

After installing the battery, press the switch (Figure 2) to wake the tool. Once awake, set the required torque using the menu. When setup is complete, press the switch to start the tool. It will stop automatically once the set torque is reached. To stop the tool at any time, simply release the switch.

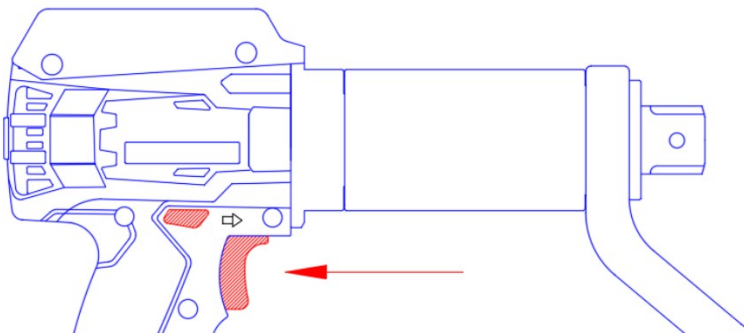


Figure 2

Forward/reverse control push and twist

The forward/reverse control (Figure 3) sets the tool's rotation direction and can also lock the switch.

Push the control to the left: the tool rotates forward (tightening), and a green forward-rotation indicator lights on the screen.

Push the control to the right: the tool rotates in reverse (loosening), and a red reverse indicator lights on the screen.

With the control in the middle position, the switch is locked and the tool will not operate.

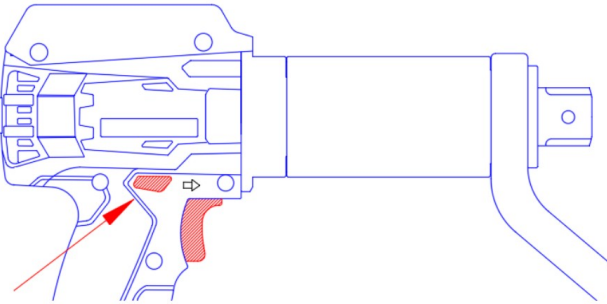


Figure 3

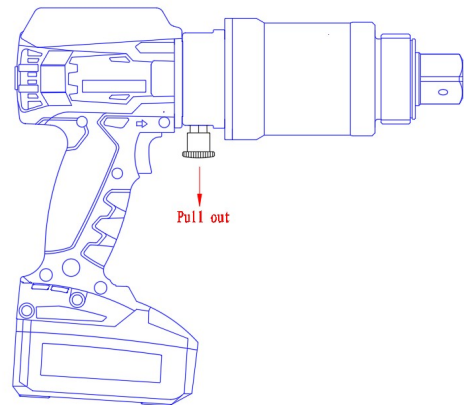


Figure 4

Note:

1. Before switching direction, make sure the switch is fully released and the tool has come to a complete stop.
2. Set the control to the middle position whenever the tool is not in use.

Note:

1. For operator safety, the high-power torque wrench's handle has a safety lock pin. Pull out the pin to rotate the handle freely through 360° (Figure 4). Once the handle is at the optimal angle, push the pin back in to lock it in place.

2. Power display

Once the tool is powered on, check the battery indicator on the panel, or press the button on the battery pack (Figure 6A) to light up its LED display. The number of lit segments shows the remaining charge, counting down from right to left. When the battery is critically low, a low-battery alert appears on screen and the wrench will not start.

1. One light is on: 25% battery power
2. Two lights are on: 50% battery power
3. Three lights on: 75% battery power
4. Four lights on: 100% battery power

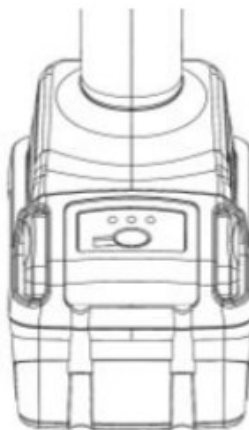
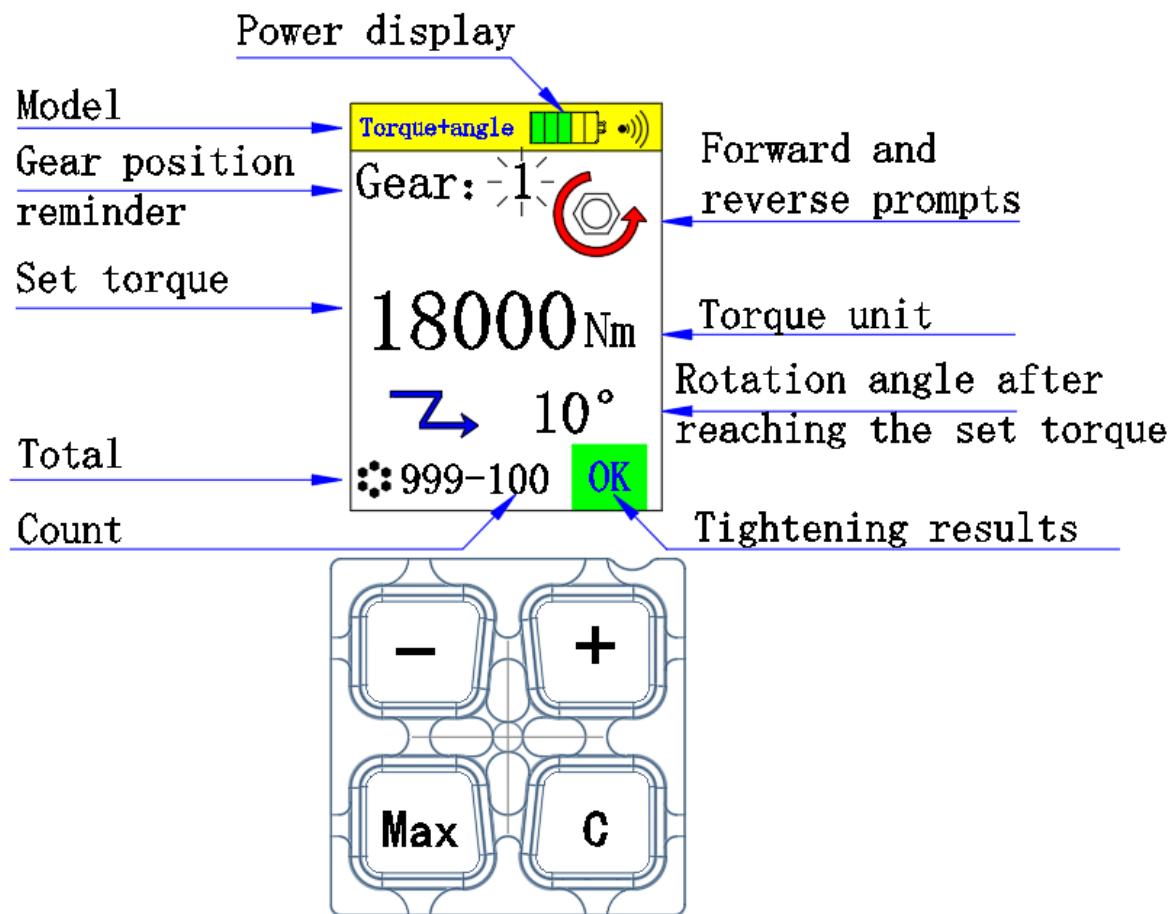


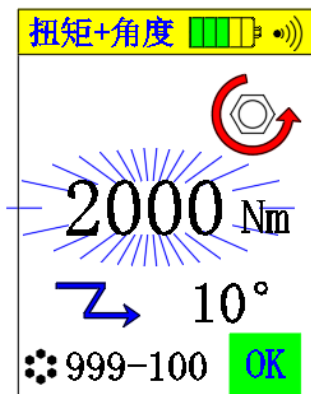
Figure 6

Display screen and button description



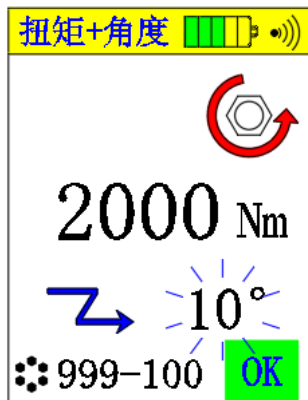
symbol	Function
C	Enter/Edit
-	Decrease the value/return to the previous level
+	Value increase/next level
Max	Jump to maximum torque

Screen and operating instructions



Set the required torque by pressing the button

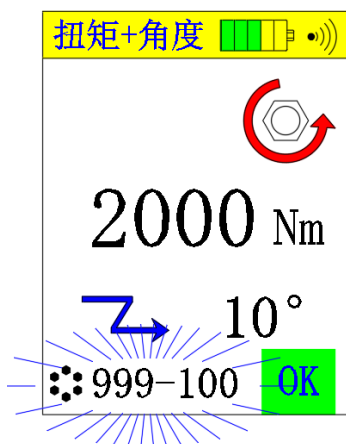
Press "C" — the torque value flashes. Use "+" or "-" to set the desired torque; tap once to adjust by 1 Nm, or press and hold to change it quickly. (The figure shows an example setting of 2000 Nm.) Press "C" again to confirm and move to the next setting.



After confirming the torque value, the angle setting appears: the angle value flashes. Use "+" and "-" to set the desired angle, then press "C" to confirm and move to the "Group" setting. If no angle is needed after tightening, set the angle to "0" and press "C"

to continue.

Note: The angle setting controls how far the output spindle continues to rotate after reaching the set torque. If no additional rotation is needed, this must be set to "0" — otherwise it can cause significant tightening errors or damage the workpiece.



After confirming the angle value, the "Group" setting appears. In the example, "999" is the total number of bolts in the group and "100" is the number already completed — meaning 100 of 999 bolts have been tightened. Press "C" to confirm, or skip this step if it isn't needed. The wrench is ready to work once no values are

flashing on the screen. Press the power switch to start

the motor; the tool will stop automatically once it reaches the set torque.

1Nm=0.7376Ft.lbs
1Nm=8.8507 Ft..in
1Nm=0.1019Kgf.m
1Nm=10.1970 Kgf.cm

1Ft.lbs=1.3558 Nm
1Ft..in =0.1130 Nm
1Kgf.m= 9.8068Nm
1Kgf.cm=0.0981 Nm

Operate

The allowable tightening torque varies depending on the type and size of the screw/bolt and the material of the workpiece to be locked.

During operation, hold the tool firmly, and then press the power switch of the tool to start operation. The tool will automatically stop when the torque is reached.

Note:

Do not re-tighten the bolts or nuts to prevent over-tightening.

When tightening the bolt, align the tool vertically with the screw. If a bolt is over-tightened, it can become overstressed, cracked, or damaged. Before starting work, perform a torque assessment to confirm the correct torque level for the bolt being locked.

When performing locking work, always keep the reaction arm firmly braced and stable.

Selection reference

Choose the tool that matches your bolt-tightening needs. To extend tool life, avoid running any tool at full load for extended periods — 70–80% of full range is recommended.

The same tool is used for both tightening and loosening bolts. Loosening torque is typically 1.5–2.5 times the tightening torque. For standard bolt removal, use 1.5 times the tightening torque as a starting point; under extreme pressure or high-temperature conditions, removal may require 2–2.5 times the tightening torque.

Torque unit conversion

Bolt and nut torque comparison table

Bolt grade			4.8	6.8	8.8	10.9	12.9
Minimum breaking strength			392Mpa	588Mpa	784Mpa	941Mpa	1176Mpa
Bolt size	Nut size (mm)	Hexagon socket (mm)	Torque				
			Nm				
M14	22	12	69	98	137	165	225
M16	24	14	98	137	206	247	353
M18	27	14	137	206	284	341	480
M20	30	17	176	296	402	569	680
M22	32	17	225	333	539	765	911
M24	36	19	314	470	686	981	1176
M27	41	19	441	637	1029	1472	1764
M30	46	22	588	882	1225	1962	2350
M33	50	24	735	1127	1470	2060	2450
M36	55	27	980	1470	1764	2453	2940
M39	60	27/30	1176	1764	2156	2943	3626
M42	65	32	1519	2352	2744	3826	4606
M45	70	—	1764	2744	3136	4415	5390
M48	75	36	2254	3430	3920	5592	6664
M52	80	36	2744	4116	4704	6573	8330
M56	85	41	3528	5149	5978	8437	10290
M60	90	46	4018	5978	7742	10791	13230
M64	95	46	4998	7448	8820		
M68	100	50	5684	8528	10780		
M72	105	55	6468	9800	12640		
M76	110	60	7350	10780	14700		
M80	115	65	8143	12250	18130		

M85	120	70	8820	13720	22050		
M90	130	70/75	10584	16170	24500		
M100	145	85	13720	20090			
M110	155	—	16366	24990			
M120	175	—	19894	29890			

Maintenance and cleaning

Attention!

Unplug the tool before performing any replacement or repair work. With the tool running, blow dust and debris out of all vents at least once a week using dry compressed air, and wear eye protection while doing so. Wipe the plastic housing clean with a damp cloth and mild detergent — never use solvents.

Charging stand cleaning instructions

Warning: Unplug the charging stand before cleaning. Wipe dirt and grease from the housing with a cloth or soft non-metallic brush. Do not rinse with water or any detergent.

Supplementary Safety Rules for Cordless Torque Tools

- 1. Keep in mind that the tool can start at any time.**
- 2. Make sure your footing is secure.**
- 3. When using this tool at height, make sure no one is standing below.**
- 4. Wear hearing protection as conditions require.**

appendix

Accessories for use with this tool can be purchased from your local service center for an additional fee.

Note:

The company reserves the right to change or update product specifications or standard equipment at any time without prior notice.

Product specifications may vary from country to country.

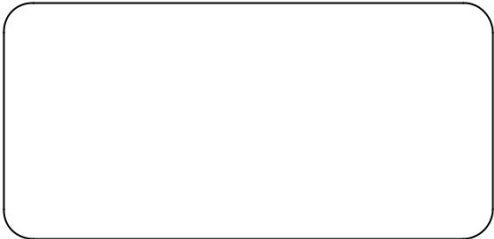
Warranty Registration

Dear Customer,

Thank you for purchasing our product! Please note the following to protect your rights:

1. Confirm that the product you purchased matches the model and serial number recorded on the warranty card.
2. Record the purchase date and confirm the warranty card is stamped with your dealer's seal.

Product number	
Serial number	
Purchase date	



Precautions:

1. For repair products within the warranty period, please attach proof of purchase and product warranty card.
2. Within one year of the original purchase date, defects in material, workmanship, or assembly will be repaired or the part replaced free of charge. The charger carries a separate three-month warranty.
3. The rechargeable battery box is not covered under this warranty. This warranty does not apply under the following circumstances:
 1. The warranty card is missing the dealer's stamp, purchase date, product name, or serial number.
 2. The warranty card and proof of purchase were not submitted together with the product for service.
 3. Damage results from improper maintenance, loose or damaged parts, or continued use under abnormal conditions.
 4. The product was used for a purpose other than intended, or non-original accessories were used.
 5. The product was used under overload conditions, or its serial number cannot be confirmed.
 6. Long-term storage may cause material deterioration and corrosion, causing damage and failure.
 7. The product's origin is unknown, or it is found to be counterfeit.
 8. Damage caused by natural disasters.
 9. The product's voltage was used incorrectly, or the unit was disassembled or modified by the owner.
 10. The rechargeable battery box has been opened.
 11. Other written or oral commitments.

Note: In the event of a discrepancy between this manual and the actual product, the actual product governs.

TORC reserves final right of interpretation.

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