

TOTAL

One-Stop Tools Station

TOTAL

BATTERY IMPACT GUN

TIWLI20010



20V

Security instructions



Caution

Read all safety warnings and all instructions. Failure to follow all warnings and instructions may result in electrical shock, fire, and/or serious injury.

The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Note: Save all warnings and instructions for future reference. Due to the continuing program of R&D&I, this document is subject to change without notice.

1) Work area safety

- a. Keep the work area clean and well lit to prevent accidents.
- b. Do not use power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust that can cause fires.
- c. Keep children and other unauthorized persons away while using a power tool. Distractions can cause you to lose control of the tool.

2) electrical safety

- a. Power tool plugs must match the outlet. Never modify the plug in any way. Using a suitable plug reduces the risk of electric shock.
- b. Avoid bodily contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is grounded.
- c. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electrical shock.
- d. Never use the cord to carry, pull or unplug the power tool. Keep the cable away from heat or oil.
- e. When using a power tool outdoors, use an extension cord suitable for outdoor use.
- f. If using the tool in a damp location is unavoidable, use a Residual Current Device (RCD) protected supply to reduce the risk of electric shock.

3) Personal security

- a. Always stay alert, watch what you are doing and use common sense when using the tool.
- b. Do not use a power tool if you are tired or under the influence of medication or other substances.
- c. Wear personal protective equipment. Always wear eye protection. Protective equipment such as a dust mask, non-slip safety shoes, hard hat, or hearing protection used in the proper conditions will reduce personal injury. Also don't wear loose clothing or jewelry.
- d. Prevent the tool from turning on unintentionally. Make sure the switch is in the off position before connecting to power source and moving.
- e. Remove any adjusting wrenches or wrenches before turning on the power tool. An adjustable wrench or wrench placed in a rotating part of the power tool can cause serious injury.
- f. If devices are used for dust extraction and collection, make sure they are properly connected. Properly use these devices and you will reduce dust-related hazards.

4) Use and care of the battery tool

- a. Recharge the battery only with the charger specified by the manufacturer. An unsuitable charger can create a fire hazard.
- b. Use power tools only with specifically designated batteries. Use of other batteries may create a risk of injury or fire.
- c. When the batteries are not in use, keep it away from other metal objects, such as paper clips, coins, keys, nails, screws, or other small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals can cause burns or fire.
- d. Abusive conditions can cause expulsion of liquid from the battery; avoid contact. If accidentally contacted, rinse immediately with water. If the liquid comes into contact with the eyes, also seek medical help. Liquid expelled from the battery can cause irritation or burns.
- e. Do not use a battery or tool that is damaged or modified. They may exhibit unpredictable behavior resulting in fire, explosion, or risk of injury.
- f. Do not expose a battery or tool to fire or excessive heat. Exposure to fire or temperature above 130°C may cause an explosion.
- g. Follow all charging instructions. Do not charge the battery or tool outside the temperature range specified in the instructions. Improper charging or charging at temperatures outside the specified range may damage the battery or increase the risk of fire.

5) Service

- a. Have your power tool serviced by a qualified person and use replacement parts recommended by the manufacturer. This will ensure that the safety of the power tool is maintained.

Safety rules for correct use



Please read the instruction manual before use.



CE conformity.



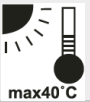
Wear safety glasses, hearing protection and a dust mask.



Waste electrical products must not be disposed of with household waste. Please recycle at the appropriate facilities. Check with your local authority or retailer for recycling advice.



Security alert. Use only accessories supported by the manufacturer.



Charge the battery only below 40°C



Always recycle batteries



Do not expose the battery to fire or high temperatures



Do not expose battery to water

Additional security warnings

Impact Gun Safety Warnings

- Hold the tool by the insulated gripping surfaces when performing an operation where it may come in contact with hidden wiring. Fasteners that come into contact with a "live" wire can make exposed metal parts of the power tool "live" and could cause an electric shock to the operator.
- Always make sure you have a firm base. Make sure no one is below when using the tool at high places.
- Hold the tool firmly.
- Wear ear protectors.
- Do not touch the rotating part of the tool or the workpiece immediately after operation. They can be very hot and could burn your skin.
- Do not touch the rotating parts of the tool.

Other risks

Even when the power tool is used as prescribed, it is not possible to eliminate all residual risk factors:

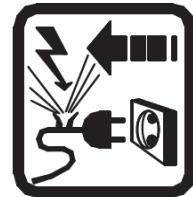
- a. Health defects resulting from vibration emission if the power tool is used for a longer period of time or if it is not managed and maintained properly.
- b. Injuries and property damage due to broken fixtures breaking suddenly.



Caution

This power tool produces an electromagnetic field during operation. This field can, in some circumstances, interfere with active or passive medical implants.

To reduce the risk of serious injury, we recommend that persons with medical implants consult their physician before using this power tool.



If the cable is damaged or cut during work, do not touch the cable, immediately unplug the tool. Never use the machine with a damaged cable.

The machine must not be damp and must not be used in a humid environment.



Attention

Safe operation of this machine is only possible when the operating or safety information is fully read and the instructions contained therein are strictly followed.



Technical data

Data sheet		
Voltage		20V
Fixing capacities	standard bolt	M10 - M20
	high strength bolt	M10 - M16
	high strength bolt	5mm - 14mm
No load speed (RPM)	hard impact mode	0 - 2400 /min
	soft impact mode	0 - 1600 /min
impacts per minute	hard impact mode	0 - 3700 /min
	soft impact mode	0 - 2500 /min

Other warnings

Save these instructions



Attention

Do not let comfort or familiarity with the product (gained from repeated use) replace strict adherence to safety rules for the product in question. Incorrect use or non-compliance with the safety rules indicated in this instruction manual can cause serious personal injury.

Symbols

The symbols used for the tool are shown below.

symbols	
V	volts
—	DC
n_0	no load speed
... /min r/min	Revolutions per minute
	number of strokes

Important safety instructions for the battery cartridge

1. Before using the battery, read all instructions and cautionary markings on:
 - a. The battery charger
 - b. Battery
 - c. Product
2. Do not disassemble the battery cartridge.
3. If the operating time has been shortened excessively, stop using it immediately. It can result in overheating, possible burns, and even an explosion.
4. If electrolyte gets into your eyes, flush with clean water and seek immediate medical attention. It can result in loss of sight.
5. Do not short circuit the battery cartridge:
 - a. Do not touch the terminals with any conductive material
 - b. Avoid storing the battery cartridge in a container with other metallic objects such as nails, coins, etc.
 - c. Do not expose the battery cartridge to water or rain.
Note: A short circuit in the battery can cause a large current flow, overheating, possible burns and even a breakdown.
6. Do not store the tool or battery cartridge where the temperature may reach or exceed 50°C (122°F).
7. Do not incinerate the battery cartridge even if it is badly damaged or completely spent. The battery cartridge may explode in case of fire.
8. Be careful not to drop or hit the battery.
9. Do not use a damaged battery.
10. Follow local regulations regarding battery disposal.

Note: Use only manufacturer-approved batteries. The use of non-original batteries or altered batteries may cause battery explosion or serious personal injury.

Tips for maintaining maximum battery life

1. Charge the battery cartridge before it is fully discharged. Always stop tool operation and charge the battery cartridge when you notice less power from the tool.
2. Never recharge a fully charged battery. Overcharging shortens battery life.
3. Charge the battery cartridge at room temperature 10°C to 40°C (50°F to 104°F). Let a hot battery cartridge cool down before charging it.
4. Charge the battery cartridge if you do not use it for a long time (approx. more than six months).

Product description



Attention

Always make sure the tool is turned off and the battery cartridge is removed before adjusting or checking the function on the tool.

Installing or removing the battery cartridge



Attention

Always turn off the tool before installing or removing the battery cartridge.

Hold the tool and battery cartridge firmly when installing or removing the battery cartridge. Failure to hold the tool and battery cartridge may cause them to fly out of your hands and result in damage to the tool, battery cartridge, or personal injury.



1. button battery two.battery cartridge

- To remove the battery cartridge, slide it out of the tool while sliding the button on the front of the cartridge.
- To install the battery cartridge, align the tab on the battery cartridge with the slot in the casing and slide it into place. Insert it all the way until it clicks into place with a small click. If you can see the red indicator at the top of the button, it's not completely locked.

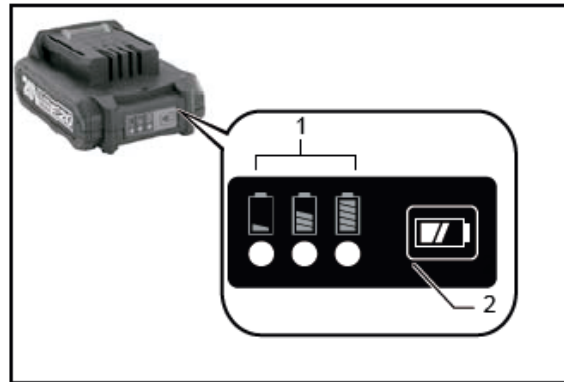


Attention

Always install the battery cartridge completely until the red indicator cannot be seen. Otherwise, it may accidentally fall off the tool and injure you or someone around you.

Do not install the battery cartridge forcibly. If the cartridge does not slide in easily, it is not being inserted correctly.

Remaining battery capacity indication



1. Indicator lights 2. Check button

Press the check button on the battery cartridge to indicate the remaining battery capacity. The indicator lights come on for a few seconds.

Indicators		remaining capacity
<input checked="" type="checkbox"/> Switched on	<input type="checkbox"/> Off	
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/>		>80%
<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>		30% to 80%
<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		<30%

Note: Depending on the conditions of use and the ambient temperature, the indication may differ slightly from the actual capacity.

Battery and tool protection system

The tool is equipped with a tool and battery protection system.

This system automatically cuts power to the motor to prolong tool and battery life. The tool will automatically stop during operation if the tool or battery is in any of the following conditions.

overload protection

If battery operation causes abnormally high current consumption, the tool automatically stops without any indication. In this situation, turn off the tool and stop the application that caused the tool to overload. Then turn on the tool to get it running again.

Overheat protection

When the tool/battery overheats, the tool automatically stops. In this situation, allow the tool/battery to cool down before turning the tool back on.

Drive button



1. Switch / trigger

To start the tool, simply pull the switch trigger. Tool speed is increased by increasing pressure on the switch trigger. Release the switch trigger to stop.

Note: The tool stops automatically if the switch trigger continues to be pressed for approx. 6 minutes.



Attention

Before inserting the battery cartridge into the tool, always check that the switch trigger actuates properly and returns to the "OFF" position when released.

Electric brake

This tool is equipped with an electric brake. If the tool does not stop quickly after releasing the switch trigger, have the tool repaired by an authorized Total dealer.

Front light



1. light

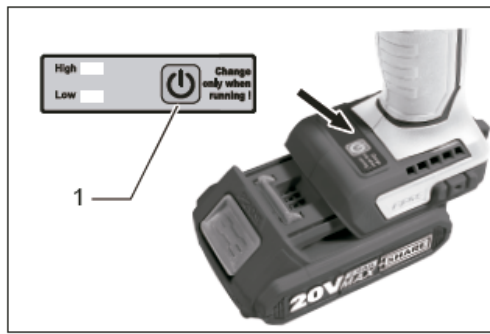
- Pull the switch trigger to turn on the light.
 - This light stays on while the switch trigger is pulled.
 - Shuts off 10-15 seconds after trigger is released.

Note: Please use a dry cloth to clean the dirt on the lens of the light. Be careful not to scratch it, as it may decrease lighting.



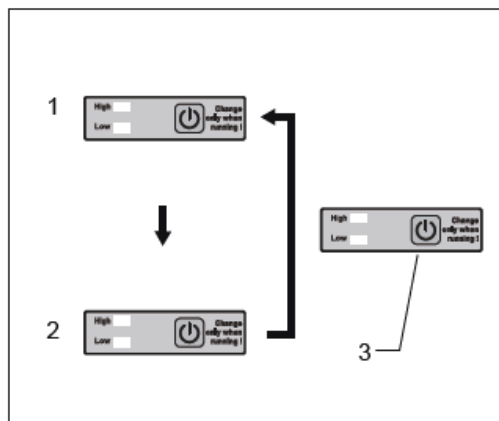
Attention

Do not look at the light directly.





1. Button

Impact Force Modification



1. Hard 2. Soft 3. Button



Impact strength grade displayed on the panel	max hits	Purpose	Application example
High 	3700 min ⁻¹ (/min)	Squeeze when strength and speed are desired	Tighten wood screws, tighten bolts
Under 	2500 min ⁻¹ (/min)	Tighten with less force to avoid breaking the screw thread	Tighten small screws like M6

A mode is only available when the tool is rotating clockwise. When rotated counterclockwise in A mode, the impact force and speed are the same as in hard mode.

When all lights on the switch panel go out, the tool shuts down to save battery power. The degree of impact force can be checked by pulling the switch trigger until the tool stops working.

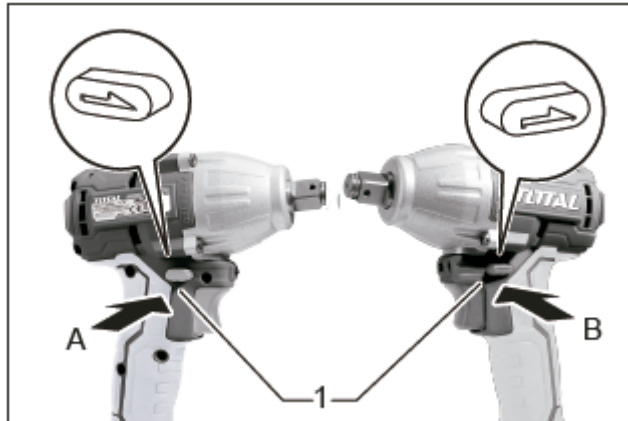
While the switch trigger is being pulled, the degree of impact force cannot be changed.

Specifications of each grade of impact force

Impact strength grade displayed on the panel	max hits	Application	Job
High 	3700 min ⁻¹ (/min)	Squeeze when strength and speed are desired	Assembly of the steel structure
Under 	2500 min ⁻¹ (/min)	Tighten when you need fine adjustment with a small diameter screw	Furniture assembly

- The impact force can be changed in 2 steps: hard, soft.
- This allows for proper tightening to the job.
- Each time the button is pressed, the number of strokes changes in two steps.

Reversing switch lever



1. Reversing switch lever

This tool has a reverse switch to change the direction of rotation.

- Press the reversing switch lever from side A to rotate clockwise.
- Press from side B to rotate counterclockwise.
- When the direction change switch lever is in the neutral position, the switch trigger cannot be pulled.



Attention

Always check the direction of rotation before operation.

Use the reverse switch only after the tool has come to a complete stop. Changing the direction of rotation before the tool stops can damage the tool.

When not using the tool, always place the reversing switch lever in the neutral position.

Mounting



Attention

Always make sure the tool is switched off and the battery cartridge is removed before carrying out any work on the tool.

Selecting the correct impact socket

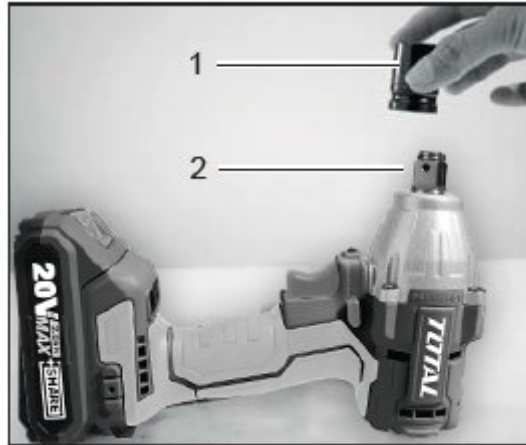
Always use the correct size impact socket for bolts and nuts. An incorrectly sized impact socket will result in inaccurate and inconsistent torque and/or damage to the bolt or nut.

Installation or removal of impact socket



Attention

Make sure that the impact socket and mounting part (square drive) are not damaged before installing the impact socket. After inserting the impact socket, make sure it is securely fastened. If it comes off, don't use it.



1. Impact socket 2. Square drive

Align the hole in the side of the impact socket with the retaining pin on the square drive and push the impact socket into the square drive until it locks into place. Tap lightly if necessary.

To remove the impact socket, simply pull on it.

Start up



Attention

Always insert the battery cartridge all the way in until it clicks into place. If you can see the red part at the top of the button, it is not completely locked.

Insert it fully until the red part is no longer visible. Otherwise, it may accidentally fall off the tool and injure you or someone around you.



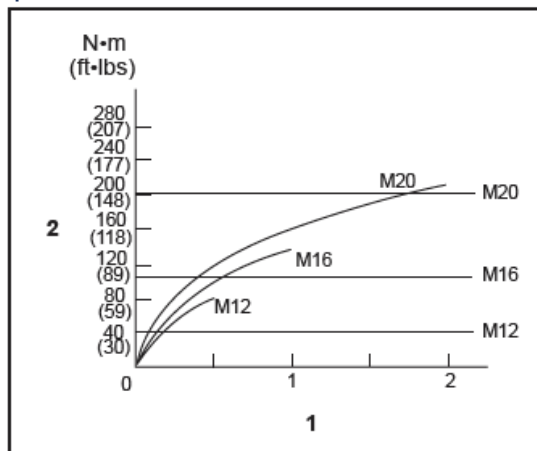
Keep one hand on the grip and the other hand on the bottom of the battery cartridge to control the twisting action.

Hold the tool firmly and place the impact socket over the bolt or nut. Turn on the tool and tighten during the setting time.

The appropriate tightening torque may vary depending on the type or size of the screw, the material of the part to be fastened, etc.

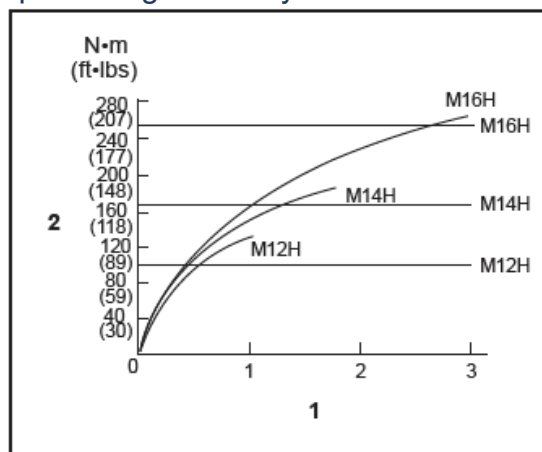
The relationship between tightening torque and tightening time is as follows.

Proper tightening torque for standard screw



1. Fixture time (second) 2. Tightening torque

Proper tightening torque for high tenacity bolt



1. Fixture time (second) 2. Tightening torque

Keep the tool pointed directly at the bolt or nut.

Excessive tightening torque can damage the nut or impact socket. Before starting your job, always do a trial run to determine the proper tightening time for your bolt or nut.

If the tool is used continuously until the battery cartridge is discharged, let the tool rest for 15 minutes before proceeding with a new battery cartridge.

After fixing, always check the tightening torque with a torque wrench. Tightening torque is affected by a wide variety of factors, including the following:

- When the battery cartridge is almost fully discharged, the voltage will drop and the tightening torque will decrease.
- impact socket
 - If the correct size impact wrench is not used, the tightening torque will be reduced.
 - A worn impact socket (hex or square end wear) will cause a reduction in torque.

- Screw
 - Although the tightening torque coefficient and the kind of screw are the same, the proper tightening torque will be different depending on the diameter of the screw.
 - Although the diameters of the screws are the same, the proper tightening torque will vary depending on the torque coefficient, the type of screw and the length of the screw.
- Using the universal joint or extension bar slightly reduces the clamping force of the impact wrench. Compensate for this reduction with a longer tightening time.
- The way the tool is clamped or the driving position material to be clamped will affect the tightening torque.
- Running the tool at low speed will cause a reduction in tightening torque.

Maintenance



Caution

Always make sure the tool is turned off and the battery cartridge is removed before attempting any inspection or maintenance.

Never use gasoline, thinner, alcohol or the like. Discoloration, warping or cracking may occur.

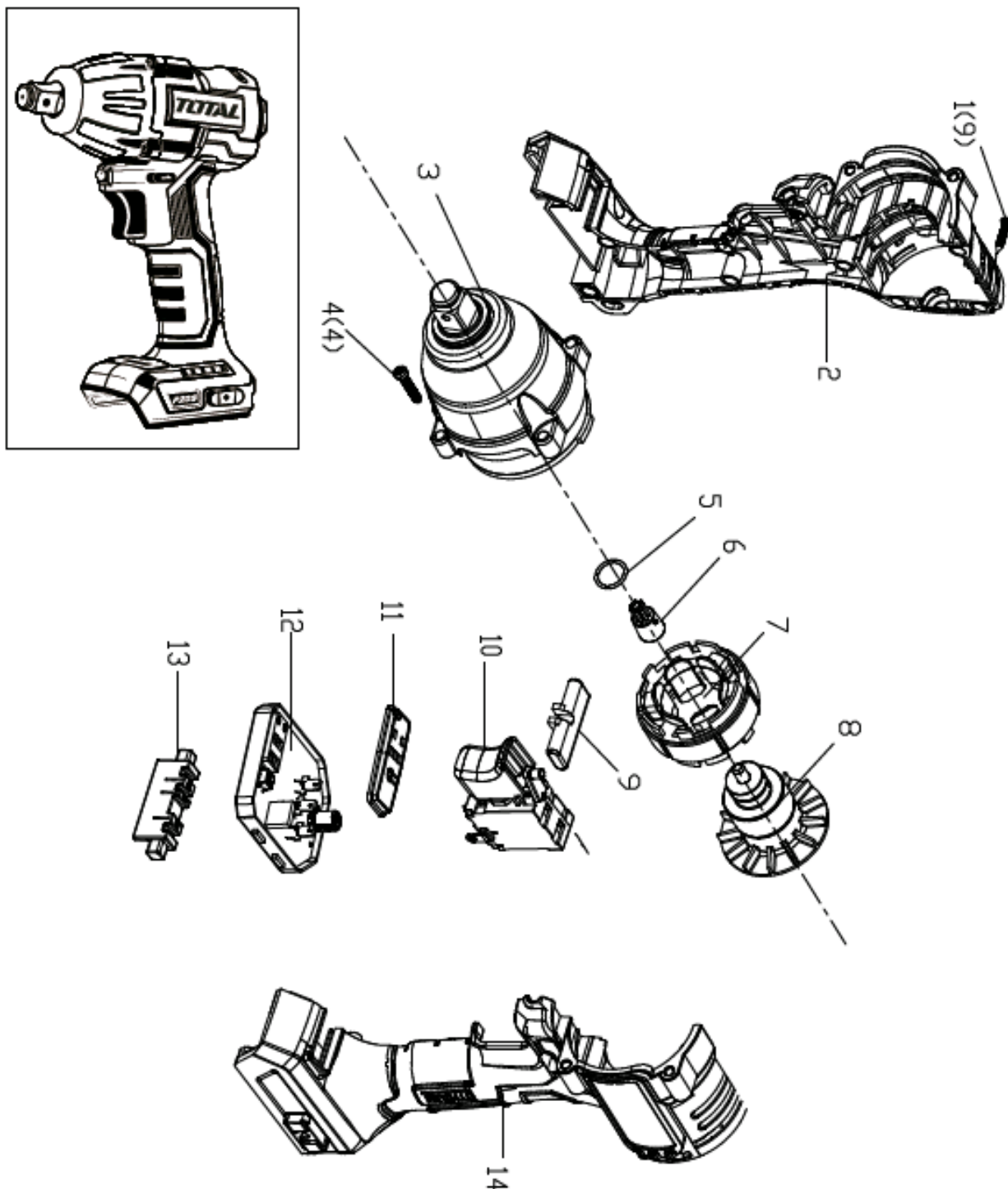
To maintain the safety and reliability of the product, repairs and any other type of maintenance or adjustment must be carried out with original spare parts and by official Total distributors. A replacement of non-original parts could cause injury to the machine and the operator.

Environment



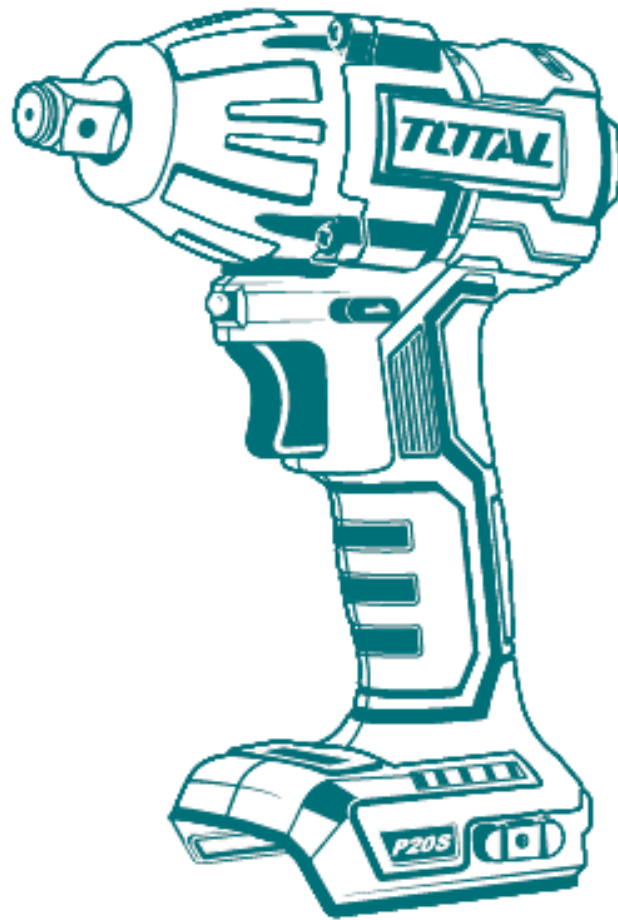
- Do not dispose of electrical appliances as unsorted municipal waste, use separate collection facilities.
- Contact your local authority for information on available collection systems.
- If electrical appliances are disposed of in landfills, hazardous substances can seep into the groundwater and enter the food chain, harming your health and well-being.
- Recycle raw materials instead of disposing of them as waste.
- The machine, accessories and packaging must be sorted for environmentally friendly recycling.

Exploded view



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