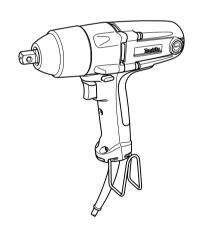


Impact Wrench

MODEL TW0200



003994



INSTRUCTION MANUAL

⚠ WARNING:

For your personal safety, READ and UNDERSTAND before using. SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE.

SPECIFICATIONS

Mod	del	TW0200	
Capacities	Standard bolt	M10 - M16 (3/8" - 5/8")	
Capacities	High tensile bolt	M10 - M12 (3/8" - 1/2")	
Square	drive	12.7 mm (1/2")	
No load spe	eed (RPM)	0-2,200/min	
Impacts po	er minute	0-2,200	
Max. fasten	ing torque	200 N.m (150ft•lbs)	
Overall	length	251 mm (9-7/8")	
Net w	Net weight 2.1 kg (4.6lbs)		

- Manufacturer reserves the right to change specifications without notice.
- · Specifications may differ from country to country.

GENERAL SAFETY RULES

USA002-2

(For All Tools)

⚠ WARNING:

Read and understand all instructions. Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury.

SAVE THESE INSTRUCTIONS

Work Area

- Keep your work area clean and well lit.
 Cluttered benches and dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep bystanders, children, and visitors away while operating a power tool. Distractions can cause you to lose control.

Electrical Safety

4. Double insulated tools are equipped with a polarized plug (one blade is wider than the other.) This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it

- still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way. Double insulation

 eliminates the need for the three wire grounded power cord and grounded power supply system.
- Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.
- When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W". These cords are rated for outdoor use and reduce the risk of electric shock.

Personal Safety

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.
- 10. Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.
- 11. Avoid accidental starting. Be sure switch is off before plugging in. Carrying tools with your finger on the switch or plugging in tools that have the switch on invites accidents.
- 12. Remove adjusting keys or wrenches before turning the tool on. A wrench or a

- key that is left attached to a rotating part of the tool may result in personal injury.
- 13. Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enables better control of the tool in unexpected situations.
- 14. Use safety equipment. Always wear eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions. Ordinary eye or sun glasses are NOT eye protection.

Tool Use and Care

- 15. Use clamps or other practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body is unstable and may lead to loss of control.
- 16. Do not force tool. Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.
- 17. Do not use tool if switch does not turn it on or off. Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- 18. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.
- 19. Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.
- 20. Maintain tools with care. Keep cutting tools sharp and clean. Properly maintained tools with sharp cutting edges are less likely to bind and are easier to control.
- 21. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tools operation. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.

22. Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool, may become hazardous when used on another tool.

SERVICE

23. Tool service must be performed only by qualified repair personnel. Service or main-

- tenance performed by unqualified personnel could result in a risk of injury.
- 24. When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance instructions may create a risk of electric shock or injury.

USE PROPER EXTENSION CORD: Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table 1 shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord.

Amnoro Pating		Volts	To	otal length o	of cord in fe	et
Allipei	Ampere Rating		25 ft.	50 ft.	100 ft.	150 ft.
More Than	Not More Than	AWG				
0	6		18	16	16	14
6	10		18	16	14	12
10	12		16	16	14	12
12	16	14 12 Not Recommended			mmended	

Table 1: Minimum gage for cord

SPECIFIC SAFETY RULES

USB003-2

DO NOT let comfort or familiarity with product (gained from repeated use) replace strict adherence to impact wrench safety rules. If you use this tool unsafely or incorrectly, you can suffer serious personal injury.

- Hold tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord. Contact with a "live" wire will make exposed metal parts of tool "live" and shock the operator.
- 2. Wear ear protectors.
- 3. Check the socket carefully for wear, cracks or damage before installation.

- 4. Hold the tool firmly.
- Always be sure you have a firm footing. Be sure no one is below when using the tool in high locations.
- The proper fastening torque may differ depending upon the kind or size of the bolt. Check the torque with a torque wrench.

SAVE THESE INSTRUCTIONS

⚠ WARNING:

CVMDOLC

MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

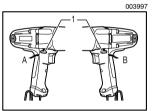
STWBULS	USD202-2
The followings show the symbols used fo	r tool.
Vvolts	n₀no load speed
A amperes	☐Class II Construction
Hz hertz	/minrevolutions or reciprocation per minute

-number of blow

FUNCTIONAL DESCRIPTION

003996

Switch trigger



1. Reversing switch lever

↑ CAUTION:

 Always be sure that the tool is switched off and unplugged before adjusting or checking function on the tool.

Switch action

↑ CAUTION:

 Before plugging in the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released.

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.

Reversing switch action

⚠ CAUTION:

- Always check the direction of rotation before operation.
- Use the reversing switch only after the tool comes to a complete stop. Changing the direction of rotation before the tool stops may damage the tool.

This tool has a reversing switch to change the direction of rotation. Depress the reversing switch lever from the A side for clockwise rotation or from the B side for counterclockwise rotation.

ASSEMBLY

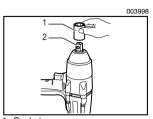
△ CAUTION:

 Always be sure that the tool is switched off and unplugged before carrying out any work on the tool.

Selecting correct socket

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

Installing or removing socket



1. Socket

2. Anvil

⚠ CAUTION:

 Always be sure that the tool is switched off and unplugged before installing or removing the socket.

Align the hole in the side of the socket with the detent pin on the anvil and push it onto the anvil of the tool until it locks into place. Tap it lightly if required.

To remove the socket, simply pull it off.

Hook

The hook is convenient for temporarily hanging the tool. This can be removed without using a tool. This can be installed on either side of the tool.

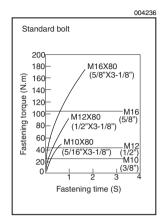
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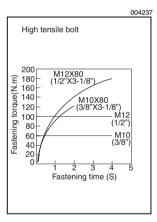
1. Hook

Installing and removing hook

Expand the upper part of the hook in both directions and remove it. To install the hook, follow the removal procedure in reverse.

OPERATION





The proper fastening torque may differ depending upon the kind or size of the bolt, the material of the workpiece to be fastened, etc. The relation between fastening torque and fastening time is shown in the figures.

Hold the tool firmly and place the socket over the bolt or nut. Turn the tool on and fasten for the proper fastening time.

NOTE:

- When fastening screw M10 (3/8") or smaller, carefully adjust pressure on the switch so that the screw is not damaged.
- Hold the tool pointed straight at the bolt or nut without applying excessive pressure on the tool.
- If you fasten the bolt for a time longer than shown in the figures, the bolt or the socket may be overstressed, damaged, etc. Before starting your job, always perform a test operation to determine the proper fastening time for your bolt. Especially for the bolt over than M10 (3/8"), perform the above test operation to prevent the trouble on socket or bolt, etc.

The fastening torque is affected by a wide variety of factors including the following. After fastening, always check the torque with a torque wrench.

- Voltage
- Voltage drop will cause a reduction in the fastening torque.

Socket

- Failure to use the correct size socket will cause a reduction in the fastening torque.
- A worn socket (wear on the hex end or square end) will cause a reduction in the fastening torque.

3. Bolt

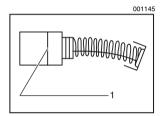
- Even though the torque coefficient and the class of bolt are the same, the proper fastening torque will differ according to the diameter of bolt.
- Even though the diameters of bolts are the same, the proper fastening torque will differ according to the torque coefficient, the class of bolt and the bolt length.

- 4. The use of the universal joint or the extension bar somewhat reduces the fastening force of the impact wrench. Compensate by fastening for a longer period of time.
- 5. The manner of holding the tool or the material of driving position to be fastened will affect the torque.

MAINTENANCE

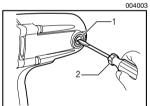
⚠ CAUTION:

 Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance.



Replacing carbon brushes

Remove and check the carbon brushes regularly. Replace when they wear down to the limit mark. Keep the carbon brushes clean and free to slip in the holders. Both carbon brushes should be replaced at the same time. Use only identical carbon brushes.



1. Limit mark

Brush holder cap

2. Screwdriver

Use a screwdriver to remove the brush holder caps. Take out the worn carbon brushes, insert the new ones and secure the brush holder caps.

To maintain product SAFETY and RELIABILITY, repairs, any other maintenance or adjustment should be performed by Makita Authorized or Factory Service Centers, always using Makita replacement parts.

ACCESSORIES

⚠ CAUTION:

 These accessories or attachments are recommended for use with your Makita tool specified in this manual. The use of any other accessories or attachments might present a risk of injury to persons. Only use accessory or attachment for its stated purpose.

If you need any assistance for more details regarding these accessories, ask your local Makita service center.

- Sockets
- Extension bar
- Universal joint

Memo	

Memo			

Memo	



Stamp Timbre

Makita Canada Inc. 1950 Forbes Street, Whitby, Ontario L1N 7B7

Fold

Your answers to the following questions are appreciated.

2. Use of the product is intended for? Construction trade	.This product was purchas Hardware/lumber Store Tool Distributor	sed from? Industrial Supply Other ()	3. How did you first learn Magazine/Newspaper From dealer Store display	of Makita Power Tools? Catalog Other ()
Certificate of Warranty Mail to Makita Date Purchased Month Day Year 20 Serial No. Initial Last Name Male Female Single Married Street Address City Province Postal Code AGE: Under 19 20-29 30-39 40-49 Over 50	Construction trade	Home maintenance	Design Features Size	Makita Brand Power
Mail to Makita Date Purchased Month Day Year 20 Serial No. Initial Last Name Male Female Single Married Street Address City Province Postal Code AGE: Under 19 20-29 30-39 40-49 Over 50	. Any comments?			
Date Purchased Month Day Year 20 Serial No. Initial Last Name Male Female Single Married Street Address City Province Postal Code AGE: Under 19 20-29 30-39 40-49 Over 50				
Initial Last Name Male Female Single Married Street Address City Province Postal Code AGE: Under 19 20-29 30-39 40-49 Over 50				
Street Address City Province Postal Code AGE: Under 19 20-29 30-39 40-49 Over 50	Mail to Mal	kita	Model No.	
AGE: Under 19 20-29 30-39 40-49 Over 50	Mail to Mal	kita		
	Mail to Mal	kita	Serial No.	Single Married
Occupation:	Mail to Mal Date Purchased Month Day Initial Last Name Street Address	Year 20	Serial No. Male Female	Single Married
	Mail to Mal Date Purchased Month Day Initial Last Name Street Address City	Year 20 Province	Serial No. Male Female Postal Code	

Factory Service Centres

Head Office: 1950 Forbes St., Whitby, Ontario, L1N 7B7 (905) 571 - 2200 1-800-263-3734 Regional Office: 11771 Hammersmith Way, Richmond B.C. V7A 5H6 (604) 272 - 3104 1-800-663-0909 **Regional Office:** 6389 boul. Couture, St. Leonard, Quebec H1P 3J5 (Montreal) (514) 323 - 1223 1-800-361-7049 Dartmouth: 202 Brownlow Avenue Dartmouth, N.S., B3B 1T5 (902) 468 - 7064 1-888-625-4821 Ville St. Laurent: 1140 Rue Bégin, Ville St. Laurent, Quebec (Montreal) H4R 1X1 (514) 745 - 5025 1-888-745-5025 Les Saules: 1200 St. Jean Baptiste, Unit 106, Les Saules, (Quebec) Quebec, G2E 5E8 (418) 871 - 5720 1-800-663-5757 Nepean: 210 Colonnade Road, Unit 11, Nepean, (Ottawa) Ontario, K2E 7M1 (613) 224 - 5022 1-888-560-2214 Whitby: 1950 Forbes St., Whitby, Ontario, L1N 7B7 (905) 571 - 2200 1-800-263-3734

London: 317 Adelaide St. S., Unit 117, London,

Ontario, N5Z 3L3 (519) 686 - 3115 1-800-571-0899

Mississauga: 6350 Tomken Rd., Unit 8, Mississauga,

Ontario, L5T 1Y3 (905) 670 - 7255 1-888-221-9811

Calgary: #8-6115 Fourth St. S.E., Calgary

Alberta, T2H 2H9 (403) 243 - 3995 1-800-267-0445

Edmonton: 11614-149 Street, Edmonton, Alberta,

T5M 3R3 (780) 455 - 6644 1-888-455-6644

Richmond: 11771 Hammersmith Way, Richmond, B.C.,

V7A 5H6 (604) 272 - 3104 1-800-663-0909

Coquitlam: 2131 Hartley Ave., #103

Coquitlam, B.C. V3K 2Z3 (604) 525 - 7434 1-800-266-7738

Winnipeq: 1670 St. James Street, Winnipeq, Manitoba,

R3H 0L3 (204) 694 - 0402 1-800-550-5073

Saskatoon: 206A-2750 Faithful Avenue Saskatoon,

Saskatchewan, S7K 6M6 (306) 931 - 0111 1-888-931-0111

For the authorized service centre nearest you please refer to the local yellow pages directory under "tools" or contact our customer service department (Tel) 1-800-263-3734

When you need service...

- · Explain the problem in a letter
- Enclose the letter with the tool
- Package carefully and send prepaid to the nearest Makita factory or authorized service centre

CUSTOMER RECORD

DATE PURCHASED:
DEALER'S NAME & ADDRESS:
MODEL NO.: SERIAL NO.:

MAKITA LIMITED ONE YEAR WARRANTY

Warranty Policy

Every Makita tool is thoroughly inspected and tested before leaving the factory. It is warranted to be free of defects from workmanship and materials for the period of ONE YEAR from the date of original purchase. Should any trouble develop during this one year period, return the COMPLETE tool, freight prepaid, to one of Makita's Factory or Authorized Service Centres. If inspection shows the trouble is caused by defective workmanship or material, Makita will repair (or at our option, replace) without charge.

This Warranty does not apply:

- · where normal maintenance is required,
- repairs have been made or attempted by others.
- the tool has been abused, misused or improperly maintained,
- · alterations have been made to the tool.

IN NO EVENT SHALL MAKITA BE LIABLE FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES FROM THE SALE OR USE OF THE PRODUCT. THIS DISCLAIMER APPLIES BOTH DURING AND AFTER THE TERM OF THIS WARRANTY.

"The Makita Warranty is the only and the entire written warranty given by Makita for the Makita tools. No dealer or his agent or employee is authorized to extend or enlarge upon this warranty by any verbal or written statement or advertisement."

MAKITA DISCLAIMS LIABILITY FOR ANY IMPLIED WARRANTIES INCLUDING IMPLIED WARRANTIES OF "MERCHANTABILITY" AND FITNESS FOR A SPECIFIC PURPOSE." AFTER THE ONE YEAR TERM OF THIS WARRANTY.

"This Warranty gives you specific rights. The provisions contained in this warranty are not intended to limit, modify, take away from, disclaim or exclude any warranties set forth in any provincial legislation. To the extent required by law, the provisions in any provincial or federal legislation with respect to warranties take precedence over the provisions in this warranty."

Makita Corporation 3-11-8, Sumiyoshi-cho,

Anjo, Aichi 446-8502 Japan