

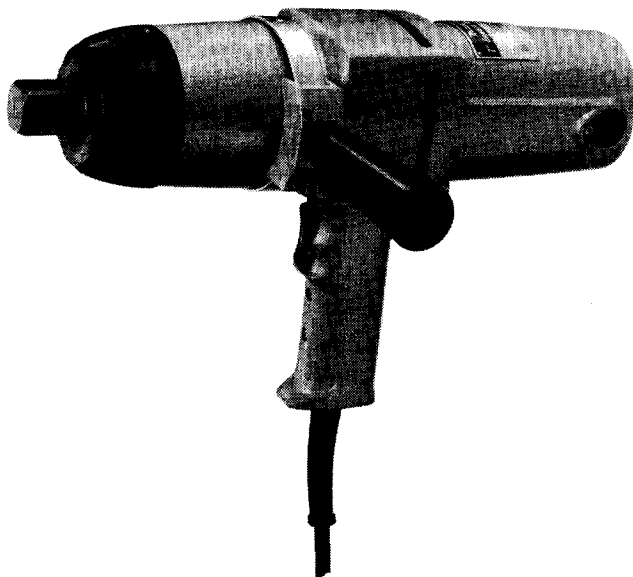
Makita

アメリカ

Impact Wrench

25.4 mm (1") MODEL 6910

INSTRUCTION MANUAL



SPECIFICATIONS

Capacities		Impacts per minute	No load speed (RPM)	Tightening torque	Overall length	Net weight
Bolt size	Square drive					
22 mm — 24 mm (7/8" — 1")	25.4 mm (1")	1,500	1,400	10,000 kg · cm (722 ft · lbs)	389 mm (15-1/4")	9 kg (19.8 lbs)

* Manufacturer reserves the right to change specifications without notice.

* Note: Specifications may differ from country to country.

IMPORTANT SAFETY INSTRUCTIONS

(For All Tools)

WARNING: WHEN USING ELECTRIC TOOLS, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, AND PERSONAL INJURY, INCLUDING THE FOLLOWING:

READ ALL INSTRUCTIONS.

1. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite injuries.
2. **CONSIDER WORK AREA ENVIRONMENT.** Don't use power tools in damp or wet locations. Keep work area well lit. Don't expose power tools to rain. Don't use tool in presence of flammable liquids or gases.
3. **KEEP CHILDREN AWAY.** All visitors should be kept away from work area. Don't let visitors contact tool or extension cord.
4. **STORE IDLE TOOLS.** When not in use, tools should be stored in dry, and high or locked-up place — out of reach of children.
5. **DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was intended.
6. **USE RIGHT TOOL.** Don't force small tool or attachment to do the job of a heavy-duty tool. Don't use tool for purpose not intended.
7. **DRESS PROPERLY.** Don't wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
8. **USE SAFETY GLASSES.** Also use face or dust mask if cutting operation is dusty.
9. **DON'T ABUSE CORD.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
10. **SECURE WORK.** Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
11. **DON'T OVERREACH.** Keep proper footing and balance at all times.
12. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged, have repaired by authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean, and free from oil and grease.
13. **DISCONNECT TOOLS.** When not in use, before servicing, and when changing accessories, such as blades, bits, cutters.

14. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
15. **AVOID UNINTENTIONAL STARTING.** Don't carry plugged-in tool with finger on switch. Be sure switch is OFF when plugging in.
16. **OUTDOOR USE EXTENSION CORDS.** When tool is used outdoors, use only extension cords intended for use outdoors and so marked.
17. **STAY ALERT.** Watch what you are doing, use common sense. Don't operate tool when you are tired.
18. **CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by authorized service center. Don't use tool if switch does not turn it on and off.
19. **GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces. For example; pipes, radiators, ranges, refrigerator enclosures.
20. **PROPER GROUNDING.** This tool should be grounded while in use to protect the operator from electric shock.
21. **EXTENSION CORDS:** Use only three-wire extension cords which have three-prong grounding-type plugs and three-pole receptacles which accept the tool's plug. Replace or repair damaged or worn cord immediately.

VOLTAGE WARNING: Before connecting the tool to a power source (receptacle, outlet, etc.) be sure the voltage supplied is the same as that specified on the nameplate of the tool. A power source with voltage greater than that specified for the tool can result in **SERIOUS INJURY** to the user — as well as damage to the tool. If in doubt, **DO NOT PLUG IN THE TOOL.** Using a power source with voltage less than the nameplate rating is harmful to the motor.

GROUNDING INSTRUCTIONS

ALL GROUNDED, CORD-CONNECTED TOOLS: In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

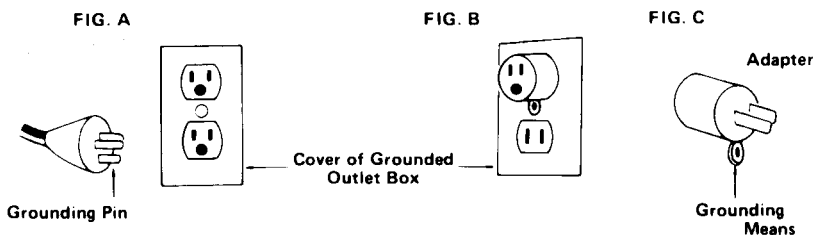
Do not modify the plug provided — if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.

This tool is intended for use on a circuit that has an outlet that looks like the one illustrated in Figure A. The tool has a grounding plug that looks like the plug illustrated in Figure A. A temporary adapter, which looks like the adapter illustrated in Figure B and C, may be used to connect this plug to a 2-pole receptacle as shown in Figure B if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. The green-colored rigid ear, lug, etc. extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box.

GROUNDING METHODS



ADDITIONAL SAFETY RULES

1. Wear ear protectors.
2. Check the socket carefully for wear, cracks or damage before installation.
3. Hold the tool firmly.
4. Always be sure you have a firm footing.
Be sure no one is below when using the tool in high locations.
5. The proper tightening torque may differ depending upon the kind or size of the bolt.
Check the torque with a torque wrench.

SAVE THESE INSTRUCTIONS.

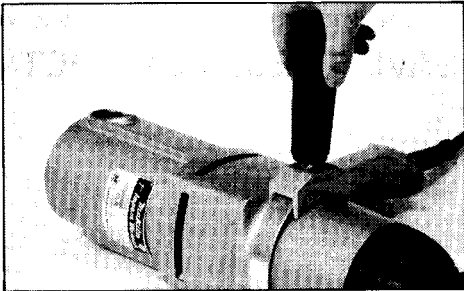
Selecting correct socket

Use a correct size socket for bolts and nuts. A wrong size socket will result in inaccurate and inconsistent tightening torque.

Socket size (Across hex flats)	Metric screws (ISO)	Inch screws
35	—	7/8"
36	24 mm	—
41	—	1"

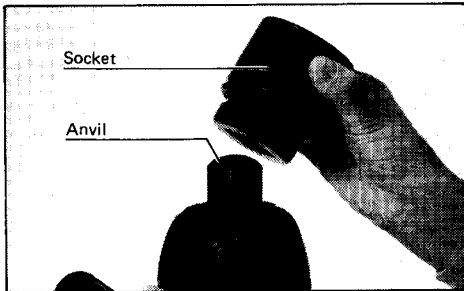
Installing the side grip

Fit the side grip into the groove on the middle of the hammer case and fasten securely.



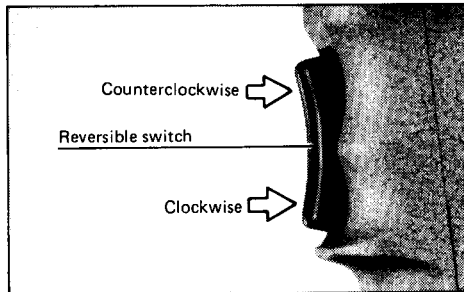
Attaching the socket

Selecting a proper socket in size, please insert it into the anvil so as to fix securely.



Switch action

The switch is reversible, providing either clockwise or counterclockwise rotation. To start the tool, simply pull the lower part of the switch for clockwise, the upper part for counterclockwise. Release the switch to stop.

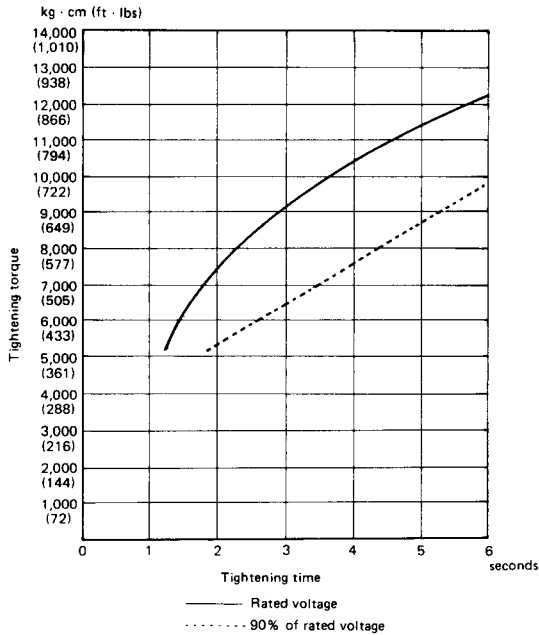


CAUTION :

- Before plugging in the tool, always check to see that the trigger switch actuates properly and returns to the "OFF" position when released.
- Change the direction of rotation only when the tool comes to a complete stop. Changing it before the tool stops may ruin the tool.

Operation

The proper tightening torque may differ depending upon the kind or size of the bolt. The relation between tightening torque and tightening time is shown in the figure below.



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

NOTE :

- Hold the tool pointed straight at the bolt or nut without applying excessive pressure on the tool.
- Excessive tightening torque may damage the bolt or nut.

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

1. Socket

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

2. Bolt

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

3. The use of the universal joint or the extension bar somewhat reduces the tightening force of the impact wrench. Compensate by tightening for a longer period of time.

4. The manner of holding the tool will affect the torque.

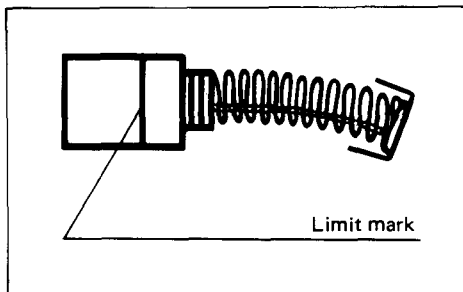
MAINTENANCE

CAUTION:

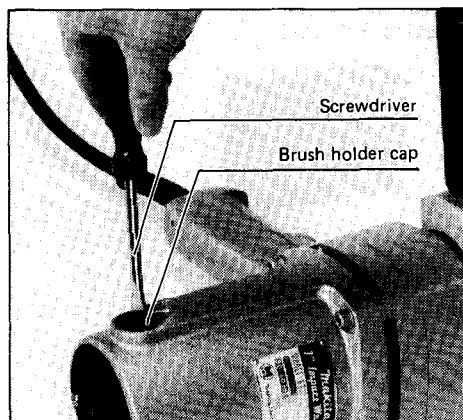
Always be sure that the tool is switched off and unplugged before attempting to perform inspection or maintenance.

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 Makita carbon brushes.



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. The accessories or attachments should be used only in the proper and intended manner.

- **Extension bar**

Recommended for work in tight places where footing is poor or in spots where the conventional socket will not reach.

Part No. 785209-2



- **Grip assembly**

Part No. 123018-5



- **Hex wrench 5**

Part No. 783203-8

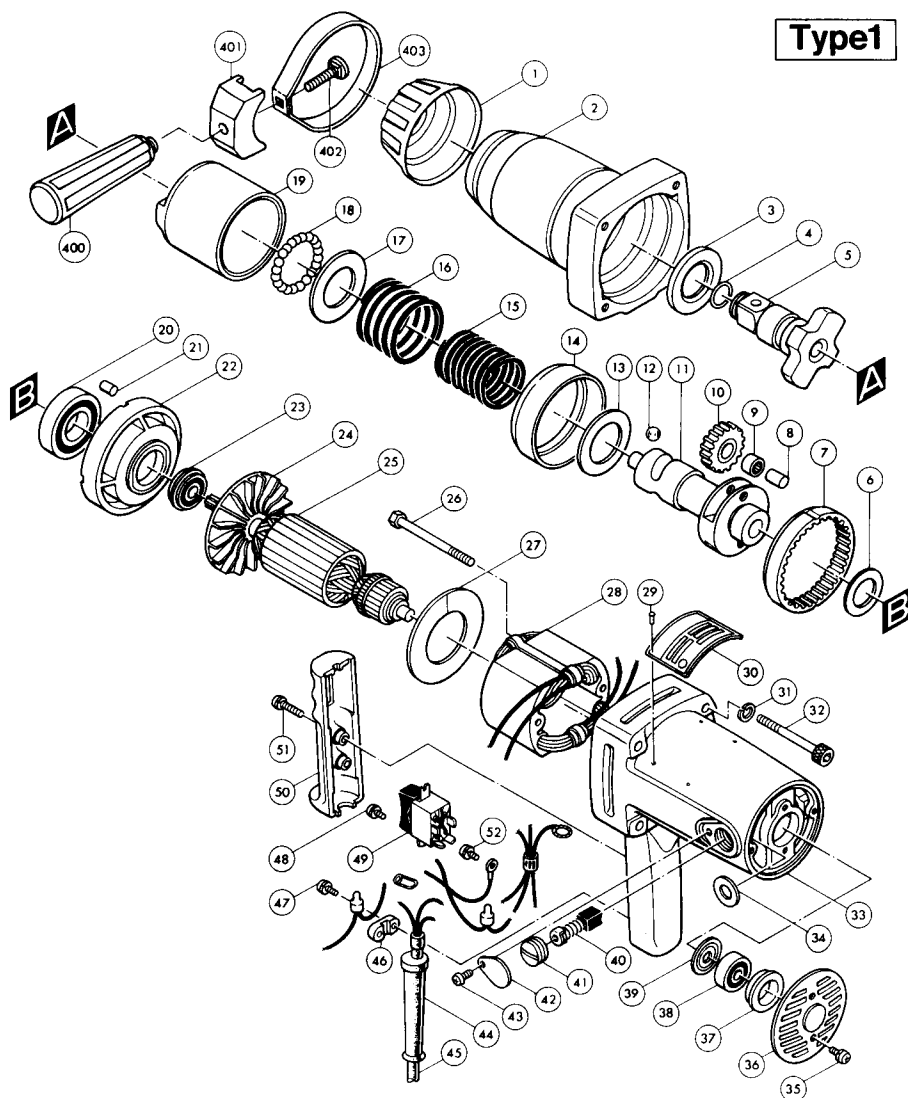


- **Steel carrying case**

Part No. 823031-0



25.4 mm (1") IMPACT WRENCH Model 6910

Type1


Note: The switch, noise suppressor and other part configurations may differ from country to country.

ITEM NO.	NO. USED	DESCRIPTION	ITEM NO.	NO. USED	DESCRIPTION
MACHINE			MACHINE		
1	1	Bumper	29	4	Rivet 0-5
2	1	Hammer Case	30	1	Name Plate
3	1	Flat Washer 35	31	4	Spring Washer 6
4	1	Ring Spring 22	32	4	Hex. Socket Head Bolt M6x60
5	1	Anvil	33	1	Motor Housing
6	1	Flat Washer 36	34	2	Insulation Washer
7	1	Internal Gear 82	35	2	Pan Head Screw M5x14 (With Washer)
8	2	Pin 10	36	1	Rear Cover
9	2	Needle Bearing 1012	37	1	Cushion Ring
10	2	Spur Gear 37	38	1	Ball Bearing 6200LLB
11	1	Spindle	39	1	Dust Seal 10
12	2	Steel Ball 10.3	40	2	Carbon Brush
13	1	Flat Washer 35	41	2	Brush Holder Cap
14	1	Ring 79	42	2	Brush Holder Cap Cover
15	1	Compression Spring 36	43	2	Pan Head Screw M4x10 (With Washer)
16	1	Compression Spring 49	44	1	Cord Guard
17	1	Flat Washer 36	45	1	Cord
18	32	Steel Ball 4.8	46	1	Strain Relief
19	1	Hammer	47	2	Pan Head Screw M4x14 (With Washer)
20	1	Ball Bearing 6007LLB	48	1	Pan Head Screw M4x8 (With Washer)
21	2	Pin 5	49	1	Switch
22	1	Bearing Housing	50	1	Handle Cover
23	1	Ball Bearing 1511LLB	51	2	Pan Head Screw M4x25 (With Washer)
24	1	Fan 90	52	1	Pan Head Screw M4x8 (With Washer)
25	1	ARMATURE ASSEMBLY (With Item 23 - 25, 38 & 39)	400	1	Grip 37
26	2	Hex. Bolt M5x80 (With Washer)	401	1	Grip Base
27	1	Baffle Plate	402	1	Cap Square Neck Bolt M8x35
28	1	FIELD	403	1	Belt

Note: The switch and other part specifications may differ from country to country.

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 Centers. 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:

- repairs have been made or attempted by others;
- repairs are required because of normal wear and tear;
- 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.

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 legal rights, and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

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