OMEGA PRO

1/2” DRIVE CORDLESS IMPACT WRENCH

MODEL 82003

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

SFA Companies

Read this manual and follow all the Safety Rules and Operating Instructions before using this product.

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SAFETY AND GENERAL INFORMATION

Save these instructions. For your safety, read, understand, and follow the information provided with and on this device before using. The owner and/or operator shall have an understanding of the device, its operating characteristics and safety operating instructions before operating the equipment. The owner and/or operator shall be aware that use and repair of this product may require special skills and knowledge. Instructions and safety information shall be read to and discussed with the operator in the operator's native language, making sure that the operator comprehends their contents, before use of this equipment is authorized. If any doubt exists as to the safe and proper use of this device, remove from service immediately.

Inspect before each use. Do not use if abnormal conditions such as cracked welds, damaged, loose or missing parts are noted. Any equipment that appears damaged in any way, is found to be worn, or operates abnormally shall be removed from service until repaired. If the equipment has been or is suspected to have been subjected to an abnormal load or shock, immediately discontinue use until inspected by a factory authorized repair facility (contact distributor or manufacturer for list of authorized repair facilities). It is recommended that an annual inspection be made by an authorized repair facility. Labels and Operator's Manuals are available from the manufacturer.

Product Description

This is a hand-held air powered impact wrench designed to be used by one operator for the tightening, lossening or installing of threaded fasteners.

Specifications

Item	82003
Drive Size	1/2" Square
Max. Tightening Torque	435 ft.-lbs.
Voltage	18V
No-Load Speed	0-1650 rpm
Impacts Per Minute	2100
Weight (w/ Battery)	6.83 lbs. (8.42 lbs.)
Charge Time	60-70 min. Auto Cut-off

Fig 1. 82003 Impact Wrench components.

⚠ WARNING

Operating Hazards

- The use this too can expose the operator's hands to hazards including, impacts, cuts and abrasions and heat. Wear suitable gloves to protect hands.
- Operators and maintenance personnel shall be physically able to handle the bulk, weight and power of the tool.
- Hold the tool correctly; be ready to counteract normal or sudden movements and have both hands available.
- Maintain a balanced body position and secure footing.
- In cases where the means to absorb the reaction torque are requested, it is recommended to use a suspension arm whenever possible. If that is not possible, side handles are recommended for straight-case and pistol-grip tools. It is recommended to use a means to absorb the Reaction torque above 2.95 ft.-lbs. (4 N•m) for straight tools, above 7.38 ft.-lbs. (10 N•m) for pistol-grip tools.
- Release the start-and-stop device in the case of an interruption of the energy supply.
- Do not use in confined spaces and beware of crushing hands between tool and workpiece

Workplace Hazards

- Slips, trips and major causes of workplace injury. Be aware of slippery surfaces caused by the use of the tool and also of trip hazards caused by the air line or hydraulic hose.
- Proceed with care in unfamiliar surroundings. Hidden hazards, such as electricity or other utility lines, can exist.
- The impact wrench is not intended for use in potentially explosive atmospheres and is not insulated against coming into contact with electric power.
- Make sure there are no electrical cables, gas pipes, etc., that can cause a hazard if damaged by use of the tool.
- Dust and fumes generated when using impact wrench can cause ill health (for example cancer, birth defects, asthma and/or dermatitis); risk assessment and implementation of appropriate controls for these hazards are essential.
- Direct the exhaust so as to minimize disturbance of dust in a dust-filled environment.
- Use respiratory protection in accordance with employer's instructions and as required by occupational health and safety regulations.

Projectile Hazards

- Failure of the workpiece,of accessories or even of the inserted tool itself can generate high-velocity projectiles.
- Always wear impact-resistant eye protection during the operation of the impact wrench. The grade of protection required should be assessed for each use.
- Ensure that the workpiece is securely fixed.

Entanglement Hazards

- Entanglement hazards can result in choking, scalping and/or lacerations if loose clothing, personal jewelery, neckware, hair or gloves are not kept away from the tool and accessories.
- Gloves can become entangled with the rotating drive, causing severed or broken fingers.
- Rotating drive sockets and drive extensions can easily entangle rubber-coated or metal-reinforced gloves.
- Do not wear loose-fitting gloves with cut of frayed fingers.
- Never hold the drive, socket or drive extension.
- Keep hands away from rotating drives.

Noise Hazards

- Exposure to high noise levels can cause permanent, disabling loss and other problems, such as tinnitus (ringing, buzzing, whistling or humming in the ears). Therefore a risk assessment and implementation of appropriate controls for these hazards are essential.
- Appropriate controls to reduce the risk may include actions such as damping materials to prevent workpieces from "ringing".
- Use hearing protection in accordance with employer's instructions and as required by occupational health and safety regulations.
- Operate and maintain the impact wrench as recommended in the instructions handbook, to prevent an unnecessary increase in noise levels.
- Select, maintain and replace the consumable/inserted tool as recommended in the instructions handbook, to prevent an unnecessary increase in noise.

Vibration Hazards

- Exposure to vibration can cause disabling damage to the nerves and blood supply of the hands and arms.
- Wear warm clothing when working in cold conditions and keep your hands warm and dry.
- If you experience numbness, tingling, pain or whitening of the skin in your fingers or hands, stop using the impact wrench, tell your employer and consult a physician.
- Operate and maintain the impact wrench as recommended in the instructions handbook, to prevent an unnecessary increase in vibration levels.
- Do not use worn or ill-fitting sockets or extensions, as this is likely to cause a substantial increase in vibration.
- Hold the tool with a light but safe grip, taking account of the required hand reaction forces, because the risk from vibration is generally greater when the grip force is higher.
- Support the weight of the tool in a stand, tensioner or balancer, if possible.
- Sleeve fittings should be used where practicable.

Repetitive Motion Hazards

- If the operator experiences symptoms such as persistent or recurring discomfort, pain, throbbing, aching, tingling, numbness, burning sensations or stiffness, these warning signs should not be ignored. The operator should cease use of the tool, tell the employer and consult a qualified health professional.

Maintenance Hazards

- Disconnect air hose from tool prior to any maintenance work.

Operating Instructions

Installing or Removing Battery Pack

1. Always switch off the machine before insertion or removal of the battery pack.
2. To remove the battery pack, push the button on the battery pack and pull battery away from tool.
3. To insert the battery pack, align the slides on the tool unit with the battery pack sliding groove and push the tool unit into place.
4. Do not force the battery pack in sliding it into tool unit. If the battery pack does not slide in easily, it is not being inserted correctly.

Installing Or Removing Socket

⚠ **Caution:** Always be sure that the machine is switched off and the battery pack is removed before installing or removing the socket.

1. To install the socket, push the socket onto the anvil as far as it will go. (See Fig. 2)

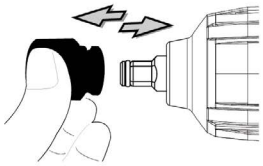


Fig. 2 Installing socket on anvil.

2. To remove the socket, simply pull the socket from the anvil.
3. To start the machine, pull the trigger. Machine speed is increased by increasing pressure on the trigger. Release the trigger to stop.
4. To reverse the direction, (See Fig. 3) use the forward / reverse button on the drive unit.

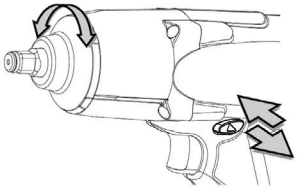


Fig. 3 Forward/Reverse Button.

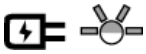
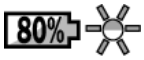
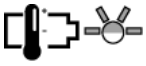
5. The tool has two torque settings that can be selected from dial on rear of unit (See Fig. 4).

Fig. 4. Torque adjustment knob.

⚠ **Caution:** Always check the direction of rotation before operation.

⚠ **Caution:** Use the forward/reverse button only after the machine comes to a complete stop. Changing the direction of rotation before the tool stops may damage the tool.

Charging Indications

	Power On (Green light flashes slowly)
	Battery Low (Red light stays illuminated)
	Battery charged 80% (Green light flashes rapidly)
	Battery charged 100% (Green light stays illuminated)
	Battery Pack temperature is too hot or too cold (Red light flashes slowly)
	Battery Pack malfunction (Red and Green lights stay illuminated)

⚠ WARNING

- Only plug charger into 100-240V AC outlet.
- If the battery pack is too hot or too cold, the charger will not charge the battery pack and the red Indicator light will be “blinking”. When the battery pack temperature returns to between 32°F(0°C) and 122°F(50°C), The charger will automatically begin charging.
- If both red and green indicator lights are “ON” the battery pack either does not comply or is defective. Please contact your retailer.
- Do not charge the battery pack in the rain, snow or high temperature environment.
- Do not charge battery pack when environment temperature is below 32°F(0°C) or above 104°F(40°C)
- Remove the battery from charger once fully charged.
- The charger should be allowed to cool at least one hour after three continuous battery charges.
- Do not use generator for charging the battery pack.

Replacing Carbon Brush

1. Loosen the carbon brush panel counter-clockwise by using flat head bit. (Fig. 5).
2. Take out the carbon brush (Fig. 6).
3. Put the new carbon brush and carbon brush panel back into the housing in proper order (Fig. 7).
4. Lock the carbon brush panel back clockwise by using flat head bit. (Fig. 8)

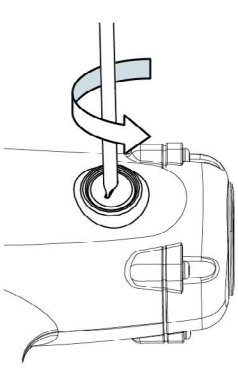


Fig. 5

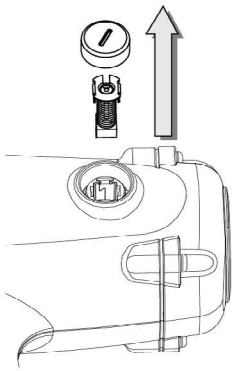


Fig. 6

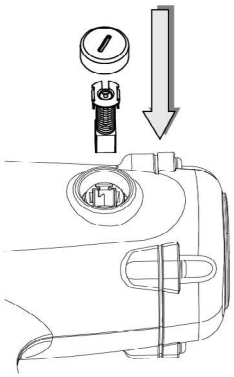


Fig. 7

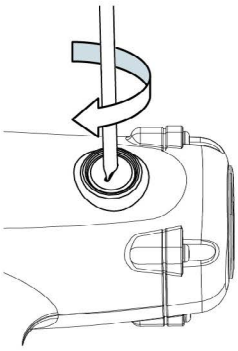


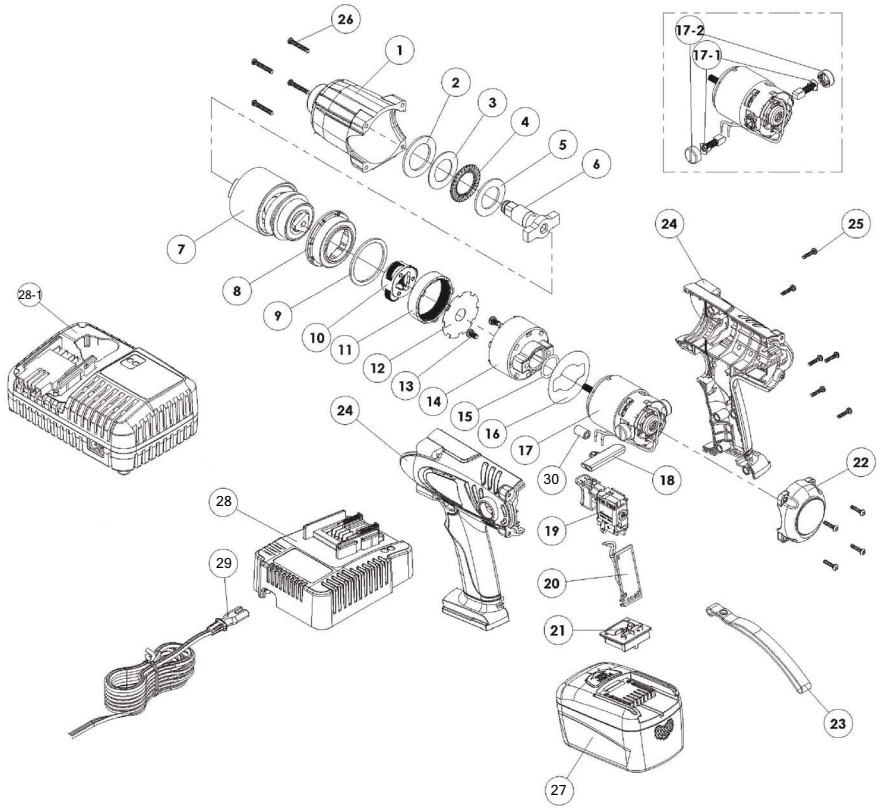
Fig. 8

⚠ **Caution:** Always be sure that the machine is switched off and battery is unplugged before carrying out any work on the machine. To maintain product safety and reliability, repairs, maintenance or adjustment should be carried out by an authorized service center.

REPLACEMENT PARTS

Not all components of the tool are replacement items, but are illustrated as a convenient reference of location and position in the assembly sequence. When ordering parts, please give the Model number, part number and parts description. Call or write for current pricing: SFA Companies 10939 N. Pomona Ave. Kansas City, MO 64153, U.S.A. E-Mail: sales@omegalift.com Tel: (888) 332-6419 Fax: (816) 891-6599

82003 Replacement Parts:



Item No.	Part No.	Description	Qty.
1	*	Front Cover Ass'y	1
2	*	Rubber Washer	1
3	*	Washer	1
4	*	Thrust Bearing	1
5	*	Washer	1
6	*	Front Impact Ass'y	1
7	*	Rear Impact Ass'y	1
8	*	Bearing Holder	1
9	*	Rubber Washer	1
10	*	Planetary Gears Ass'y	1
11	*	Ring Gear	1
12	*	Washer	1
13	*	Screw	2
14	*	Gear Case	1
15	*	O-Ring	1
16	*	Pad	1

Item No.	Part No.	Description	Qty.
17	*	Motor Ass'y	1
17-1	303017-1	Carbon Brush	2
17-2	303017-2	Carbon Brush Cover	2
18	*	Forward/Reverse Rod	1
19	303019	Switch	1
20	*	PCB	1
21	*	Battery Connector	1
22	*	Back Cover	1
23	*	Belt	1
24	303024	Main Housing L&R	1
25	*	Body Screw	10
26	*	Front Cover Screw	4
27	303027	Battery Pack	1
28	303028	Mini Charger	1
28-1	303028-1	Charger (Optional)	1
29	303029	Power Cord	1
30	*	Ferrite Core	1

** Installation of replacement parts may require specials skills and knowledge.

ONE YEAR LIMITED WARRANTY

For a period of one (1) year from date of purchase, **SFA COMPANIES, INC.** will repair or replace, at its option, without charge, any of its products which fails due to a defect in material or workmanship under normal usage. This limited warranty is a consumer's exclusive remedy.

Performance of any obligation under this warranty may be obtained by returning the warranted product, freight prepaid, to **SFA COMPANIES, INC.** Warranty Service Department, 10939 N. Pomona Ave., Kansas City, MO 64153.

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