

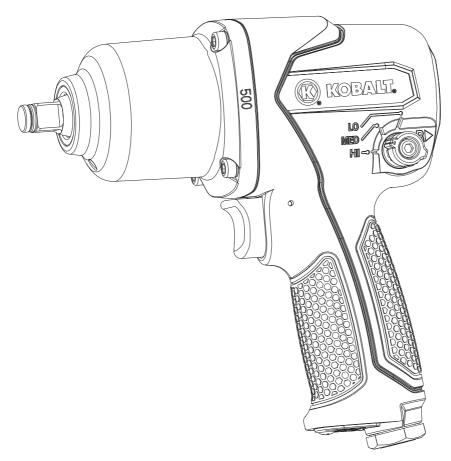
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# 1/2 IN. AIR IMPACT WRENCH

MODEL #SGY-AIR173

Français p.15

Español p.30



ATTACH YOUR RECEIPT HERE



**Questions, problems, missing parts?** Before returning to your retailer, call our customer service department at 1-888-3KOBALT, 8 a.m. - 8 p.m., EST Monday - Friday.





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#### **SAFETY INFORMATION**

Please read and understand this entire manual before attempting to assemble, operate or install the product. If you have any questions regarding the product, please call customer service at 1-888-3KOBALT, 8:00 a.m.-8:00 p.m., EST, Monday-Friday.

#### **AWARNING**

Improper operation or maintenance of this product could result in serious injury and property damage. Read and understand all warnings and operation instructions before using this equipment. When using air tools, basic safety precautions should always be followed to reduce the risk of personal injury.

### **AWARNING**

Some dust created by power sanding, sawing, grinding, drilling and other related activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. A listing of chemicals can be obtained from <a href="https://www.oehha.ca.gov">www.oehha.ca.gov</a> under proposition 65. Some examples of these chemicals are:

- Lead from lead-based paints
- Crystalline silica from bricks, cement and other masonry products
- Arsenic and chromium from chemically-treated lumber

Users of these tools should review the chemical composition of the work surface and any products in conjunction with the operation of these tools for any such chemicals prior to engaging in any activity that creates dust and/or microscopic particles.

Users should obtain the material safety data sheets from all identified chemicals, either from the manufacturer or their employer, and proceed to study, understand, and follow all instructions and warnings for exposure to such chemicals. Your risk from these exposures varies, depending on how often you do this type of work.

To reduce your exposure to these chemicals, work in a well-ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

#### PRODUCT SPECIFICATIONS

COMPONENT	SPECIFICATIONS
SQUARE DRIVE	1/2 IN.
FREE SPEED	7,000 RPM +/- 10%
MAXIMUM TORQUE	500 FTLBS.
AVERAGE AIR CONSUMPTION	7 CFM
AIR INLET	1/4 IN. NPT
AIR HOSE	3/8 IN.
WORKING PRESSURE	90 PSI



# **AWARNING** RISK OF EYE OR HEAD INJURY



WHAT COULD HAPPEN	HOW TO PREVENT IT
Air powered tools are capable of	<ul> <li>Always wear ANSI approved Z87.1</li> </ul>
propelling materials such as fasteners,	safety glasses with side shields.
metal chips, sawdust and other debris	<ul> <li>Never leave operating tool unattended.</li> </ul>
at high speed which could result in	Disconnect air hose when tool is not
serious eye injury.	in use.
Compressed air can be hazardous. The	For additional protection use an
air system can cause injury to soft	approved face shield in addition to
tissue areas such as eyes, ears, etc.	safety glasses.
Particles or objects propelled by the	
stream can cause injury.	
Tool attachments can become loose or	<ul> <li>Make sure that any attachments are</li> </ul>
break and fly apart propelling articles at	securely assembled.
the operator and others in the work	
area.	

# **AWARNING** RISK OF FIRE OR EXPLOSION





WHAT COULD HAPPEN	HOW TO PREVENT IT
An impact wrench would be capable of generating sparks, which could result in ignition of flammable materials.	<ul> <li>Never operate tools near flammable substances such as gasoline, naphtha, cleaning solvents, etc.</li> <li>Work in a clean, well-ventilated area free of combustible materials.</li> <li>Never use oxygen, carbon dioxide or other bottled gases as a power source for air tools.</li> </ul>
Exceeding the maximum pressure rating of tools or accessories could cause an explosion resulting in serious injury.	<ul> <li>Use compressed air regulated to a maximum pressure at or below the rated pressure of any attachments.</li> <li>Never connect to an air source that is capable of exceeding 200 PSI.</li> <li>Always verify prior to using the tools that the air source has been adjusted to the rated air pressure range.</li> </ul>

# **AWARNING** RISK OF LOSS OF HEARING



WHAT COULD HAPPEN	HOW TO PREVENT IT
<ul> <li>Long term exposure to noise produced</li> </ul>	<ul> <li>Always wear ANSI S3.19 hearing</li> </ul>
from the operation of air tools can lead	protection.
to permanent hearing loss.	

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# **AWARNING** INHALATION HAZARD



HOW TO PREVENT IT
Always wear properly fitting facemask or respirator when using such tools.
Always work in a clean, dry, well-ventilated area.

AWARNING RISK OF INJURY	
WHAT COULD HAPPEN	HOW TO PREVENT IT
<ul> <li>A tool left unattended, or with the air hose attached, can be activated by unauthorized persons leading to their injury or injury to others.</li> </ul>	<ul> <li>Remove air hose when tool is not in use and store tool in secure location away from reach of children and untrained users.</li> </ul>
<ul> <li>Air tools can propel fasteners or other materials throughout the work area.</li> </ul>	<ul> <li>Use only parts, fasteners and accessories recommended by the manufacturer.</li> <li>Keep work area clean and free of clutter. Keep children and others away from tool while it is in operation.</li> <li>Keep work area well lit.</li> </ul>
<ul> <li>A wrench or a key that is left attached to a rotating part of the tool increases the risk of personal injury.</li> </ul>	<ul> <li>Remove adjusting keys and wrenches before turning the tool on.</li> </ul>
Using inflator nozzles for duster applications can cause serious injury.	<ul> <li>DO NOT use inflator nozzles for duster applications.</li> </ul>
Air tools can become activated by accident during maintenance or tool changes.	<ul> <li>Remove air hose to lubricate or add impact sockets to the tool.</li> <li>Never carry the tool by hose.</li> <li>Avoid unintentional starting. Don't carry hooked-up tool with finger on trigger.</li> <li>Only an authorized service representative should do repair servicing.</li> </ul>
Air tools can cause the workpiece to move upon contact, leading to injury.	<ul> <li>Use clamps or other devices to prevent movement.</li> </ul>

#### AWARNING RISK OF INJURY WHAT COULD HAPPEN **HOW TO PREVENT IT** Loss of control of the tool can lead to Never use tool while using drugs or alcohol. injury to self or others. • Don't overreach. Keep proper footing and balance. • Keep handles dry, clean and free from oil/grease. • Stay alert. Watch what you are doing. Use common sense. Do not operate tool when you are tired. • Poor quality, improper or damaged tools • Always use tool attachments rated for and attachments can fly apart during the speed of the power tool. operation, propelling particles • Never use tools, which have been throughout the work area causing dropped, impacted or damaged by use. serious injury. • Use only impact grade sockets on this tool. Do not apply excessive force to the tool; let the tool perform the work. Maintain the tool and accessories • Improperly maintained tools and accessories can cause serious injury. with care. • Keep the tool clean. A properly maintained tool reduces the risk of binding and is easier to control. Check for misalignment or binding of • There is a risk of bursting if the tool is moving parts, breakage of parts and damaged. any other condition that affects the tool's operation. If damaged, have the tool serviced before using. Use of an accessory not intended for Use only accessories identified by the use with the specific tools increases the manufacturer to be used with specific risk of injury to persons. tools.

# **RISK OF ELECTRIC SHOCK**



WHAT COULD HAPPEN	HOW TO PREVENT IT
<ul> <li>Using air tools to attach electrical wiring</li> </ul>	Never use tools to attach electrical
can result in electrocution or death.	wiring while energized.
This tool is not provided with an	Avoid body contact with grounded
insulated gripping surface. Contact with	surfaces such as pipes, radiators,
a "live" wire will also make exposed	ranges and refrigerators. There is an
metal parts of the tool "live" and can	increased risk of electric shock if your
result in electrocution or death.	body is grounded.



# **AWARNING** RISK OF ELECTRIC SHOCK



## WHAT COULD HAPPEN HOW TO PREVENT IT

- Air tool accessories such as impact sockets that come into contact with hidden electrical wiring could cause electrocution or death.
- Thoroughly investigate the workpiece for possible hidden wiring before performing work.

# **AWARNING** RISK OF ENTANGLEMENT



#### WHAT COULD HAPPEN

 Tools which contain moving elements, or drive other moving parts, such as impact sockets, can become entangled in hair, clothing, jewelry and other loose objects, resulting in severe injury.

- **HOW TO PREVENT IT**
- Never wear loose fitting clothes or apparel that contains loose straps or ties, etc., which could become entangled in moving parts of the tools.
  Remove any jewelry, watches,
- Remove any jewelry, watches, identifications, bracelets, necklaces, etc., which might become caught by the tool.
- Keep hands away from moving parts.
   Tie up or cover long hair.
- Always wear proper fitting clothing and other safety equipment when using the tool.

# **AWARNING** RISK OF CUT OR BURNS







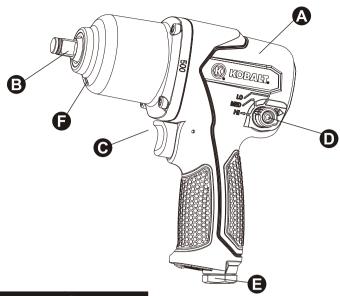
#### WHAT COULD HAPPEN

 An impact wrench would be capable of causing serious injury if it was operated in an improper way.

#### **HOW TO PREVENT IT**

 Keep the working part of the tool away from hands and body.

#### **PACKAGE CONTENTS**



PART	DESCRIPTION	QUANTITY
Α	1/2 in. Impact Wrench	1
В	Anvil	1
С	Trigger	1
D	Switch	1
E	Air Inlet	1
F	Grease Cap	1

#### **PREPARATION**

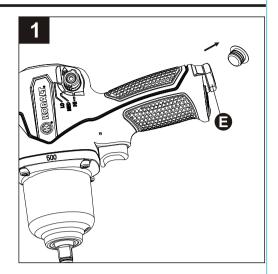
Before beginning assembly of product, make sure all parts are present. Compare parts with package contents list above. If any part is missing or damaged, do not attempt to assemble the product. Contact customer service for replacement parts.

## **Estimated Assembly Time: 5-10 minutes**

Tools Required for Assembly (not included): Adjustable wrench

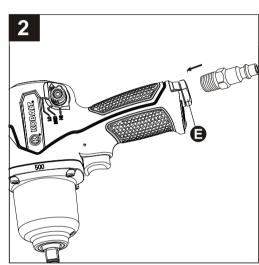
#### **ASSEMBLY INSTRUCTIONS**

1. Remove the air inlet protective cap from the air inlet (E). (See Figure 1)

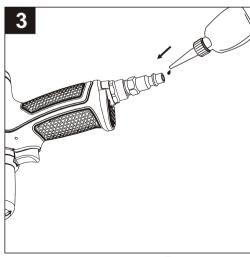


Mount a male plug (not included) by hand into the air inlet (E). (See Figure 2)

**NOTE** Use thread sealant tape (not included) on the male plug and tighten it with a wrench (not included) for airtight connection. Do not overtighten.



Place 2 - 3 drops of air tool oil (not included) into the male plug before each use.
 (See Figure 3)

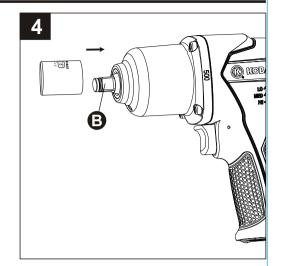


#### ASSEMBLY INSTRUCTIONS

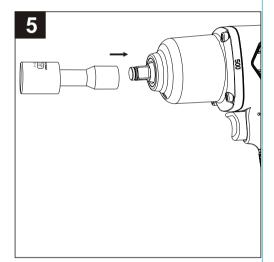
 Choose the correct impact socket (not provided) as needed and mount it onto the anvil (B). (See Figure 4)

#### **AWARNING**

Only use impact sockets that have an RPM rating equal to or greater than the tool itself.

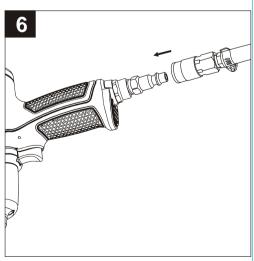


 If longer reach is necessary, use an extension bar (not provided) and then mount impact socket (not provided) onto the bar. (See Figure 5)



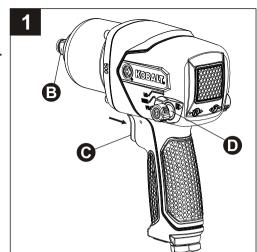
Connect air supply hose to the male plug. Set the working pressure at 90 PSI for best tool performance. (See Figure 6)

**NOTE** Working pressure refers to the air line pressure set to tool when tool is under working conditions.



#### OPERATING INSTRUCTIONS

How to install/tighten threaded fasteners.
 Push the switch D from right to left, press
 the trigger C. The tool anvil (B) runs clockwise.
 (See Figure 1)

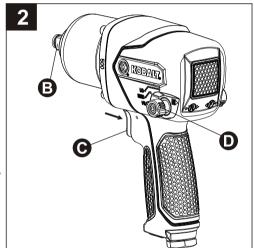


How to remove/loosen threaded fasteners.
 Push the switch D from left to right, press
 the trigger C. The tool anvil (B) runs
 counterclockwise.

(See Figure 2)

When turn the switch (D) slowly forward, the sound of clicks will be detected. The clicks do not denote a specific power output but are only for reference. When the switch arrow points to "Lo", it stands for the least amount of power, which is suitable for just mounting threaded fasteners. When the switch arrow points to "Hi", it stands for the most amount of power, which is for tightening threaded fasteners from workpiece with ease. In reverse, the tool also has the function of gear, which is suitable for removing screws of different specifications. Please choose the appropriate torque needed on the workpiece. (See Figure 3)

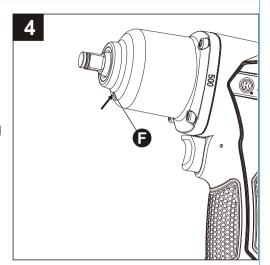
Setting	Torque in Forward	Torque in Reverse
LO Click	320 ft-lbs (+/- 10%)	420 ft-lb (+/- 10%)
MED Click	430 ft-lbs (+/- 10%)	480 ft-lb (+/- 10%)
HI Click	500 ft-lbs (+/- 10%)	515 ft-lb (+/- 10%)





#### OPERATING INSTRUCTIONS

NOTE This tool also features a grease cap (F) on the protector cover. Remove the screw in the grease cap (F) with a hex key (not provided). Use a grease gun (not provided) and insert the gun nozzle into the grease cap (F). Several drops of grease are recommended for lubricating the internal hammer assembly. This will help the hammer assembly to work in good condition and extend tool life. Lubricate the hammer assembly once every working day. (See Figure 4)



#### CARE AND MAINTENANCE

An in-line oiler is recommended to be installed on air supply line as it increases tool life and keeps the tool in sustained operation. The in-line oiler should be regularly checked and filled with air-tool oil. Proper adjustment of the in-line oiler is performed by placing a sheet of paper next to the tool's exhaust ports and holding the throttle open approximately 30 seconds. The in-line oiler is properly set when a light stain of oil collects on the paper. Excessive amounts of oil should be avoided.

In the event that it becomes necessary to store the tool for an extended period of time, it should receive a generous amount of lubrication at that time. The tool should be run for approximately 30 seconds to ensure oil has been evenly distributed throughout the tool. The tool should be stored in a clean and dry environment.

Recommended lubricants: use air-tool oil or any other high-grade turbine oil containing moisture absorbent, rust inhibitors, metal wetting agents and an EP (extreme pressure) additive.

Clean the tool all over with a cotton rag after each use. Keep the tool in a dry and safe place out of reach of children.



#### TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	CORRECTIVE ACTION
	1. Grit or gum in tool.	Flush the tool with air-tool oil or gum solvent.
	2. No oil in tool.	2. Lubricate the tool.
	3. Low air pressure.	<ol><li>a. Adjust the regulator on the tool to maximum setting.</li></ol>
		<ul> <li>b. Adjust the compressor regulator to tool maximum of 90 PSI.</li> </ul>
Tool runs slowly or will	4. Air hose leaks.	<ol> <li>Tighten and seal hose fittings if leaks are found. Use sealing tape.</li> </ol>
not operate	5. Pressure drops.	<ul> <li>5. a. Be sure the hose is the proper size. Long hose or tools using large volumes of air may require a hose with an I.D. of 1/2 in. or larger depending on the total length of the hoses.</li> <li>b. Do not use a multiple number of hoses connected together with quick-connect fittings. This causes additional pressure drops and reduces the tool power. Directly connect the hoses together.</li> </ul>
	<ul><li>6. Worn rotor blade.</li><li>7. Moisture blowing out of tool exhaust.</li></ul>	6. Replace rotor blade.  7. Water in tank; drain tank. (See air compressor manual). Oil tool and run until no water is evident. Oil tool again and run 1-2 seconds.

#### THREE-YEAR LIMITED WARRANTY

This tool is warranted by the manufacturer to the original purchaser from the original purchase date for three (3) years subject to the warranty coverage described herein. This tool is warranted to the original user to be free from defect in material and workmanship. If you believe that a tool is defective, return the tool, with proper proof of purchase to the point of purchase. If it is determined that the tool is defective and covered by this warranty, the distributor will replace the tool or refund the purchase price.

This warranty is void if: defects in materials or workmanship or damages result from repairs or alterations which have been made or attempted by others or the unauthorized use of nonconforming parts; the damage is due to normal wear, damage is due to abuse (including overloading of the tool beyond capacity), improper maintenance, neglect or accident; or the damage is due to the use of the tool after partial failure or use with improper accessories or unauthorized repair or alteration. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

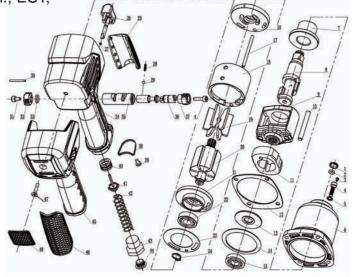
For warranty questions, call our customer service department at 1-888-3KOBALT, 8:00 a.m.-8:00 p.m. EST, Monday-Friday.

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## REPLACEMENT PARTS LIST

For replacement parts, call our customer service department at 1-888-3KOBALT,

8:00 a.m.-8:00 p.m., EST, Monday-Friday.



Part No.	Description	Qty.
1	Socket retainer	1
2	O-ring 7.65x1.8	1
F	Grease cap	1
4	Screw M5x16	5
5	Spring washer 5	4
6	Protector cover	1
7	Anvil bushing	1
В	Anvil	1
9	Hammer cage	1
10	Hammer pin	2 2 1
11	Hammer	2
12	Hammer case gasket	
13	Washer	1
14	Motor clamp washer	2
15	Bearing R8	
16	Front end plate	1
17	Cylinder Dowel	1
18	Cylinder	1
19	Rotor blade	6
20	Rotor	1
21	Rear end plate	1
22	Bearing 6001	1
23	Gasket	1
24	Rotor bearing retainer	1

Part No.	Description	Qty.
25	Soft grip	1
25 C	Trigger	1
27	O-ring 3x1	1
28	Detent spring	1
29	detent ball sw=3.175	1
30	Pin 2.5x25	1
31	Screw M5x8	1
32	Reverse valve knob	1
33	O-ring 10.6x1.8	2
34	Housing	
35	Reverse valve bushing	1
36	Reverse valve	1
D	Switch	1
38	Air deflector	1
39	Screw M4x8	1
40	Valve bushing	1
41	Valve stem	1
42	Reverse valve spring	1
Е	Air inlet	1
44	Dust cover	1
45	Housing cover	1
46	Soft grip	1
47	Screw M5x20	1
48	Soft grip	1

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