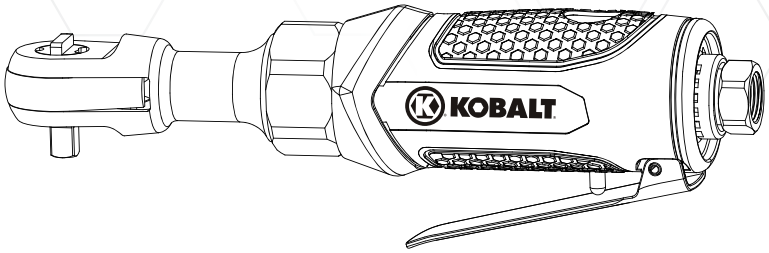
KOBALT®

# NEXT GENERATION OF TOUGH TOOLS™




ITEM #0498363

# 1/4 IN. RATCHET WRENCH

MODEL #SGY-AIR214

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**ATTACH YOUR RECEIPT HERE**

**Serial Number** _____ **Purchase Date** _____

Questions, problems, missing parts? Before returning to your retailer, call our customer service department at 1-888-3KOBALT, 8:00 a.m.-8:00 p.m., EST, Monday-Friday.

AB1404

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**IMPORTANT:** To operate correctly, this tool requires airflow that is at least 5.1 cubic feet per minute (CFM) at 90 pounds per square inch (PSI). Actual air consumption may be greater during periods of continuous use. Check the specifications of your air compressor to be sure that it can support your CFM and PSI requirements. An air hose may cause up to 15 PSI drop in pressure, so you may need to set the output higher to maintain the required pressure at the tool.

## PRODUCT SPECIFICATIONS

| COMPONENT | SPECIFICATIONS |
|---|---|
| FREE SPEED | 250 RPM |
| SQUARE DRIVE | 1/4 in |
| MAXIMUM TORQUE | 30 ft-lbs |
| WORKING PRESSURE | 90 PSI |
| AVERAGE AIR CONSUMPTION | 5.1 CFM |
| AIR INLET | 1/4 in. NPT |
| RECOMMENDED AIR HOSE | 3/8 in. (inside diameter) |

## SAFETY INFORMATION

Please read and understand this entire manual before attemptingto 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.

### ⚠ WARNING

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.

### ⚠ WARNING

SOME DUST CREATED BY PAINT SPRAYING, POWER SANDING, SAWING, GRINDING, DRILLING, AND OTHER RELATED ACTIVITIES IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, AND OTHER REPRODUCTIVE HARM. A LISTING OF CHEMICALS CAN BE OBTAINED FROM www.oehha.ca.gov 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

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 A RESPIRATOR OR DUST MASKS WHICH ARE SPECIALLY DESIGNED TO FILTER MICROSOPIC PARTICLES.

## SAFETY INFORMATION

### ⚠WARNING RISK OF EYE OR HEAD INJURY

| WHAT COULD HAPPEN | HOW TO PREVENT IT |
|---|---|
| • This particular air powered tool can be capable of propelling materials such as fasteners, metal chips, sawdust, and other debris at high speed which could result in serious injury. | • Always wear ANSI approved Z87.1 safety glasses with side shields.<br>• Never leave operating tool unattended. Disconnect air hose when tool is not in use, and place in a safe area. |
| • Compressed air can be hazardous and propel objects and other particles that can cause injury to soft tissue areas of the body, such as eyes and ears. Particles or objects propelled by the stream can cause injury. | • For additional protection, use an approved face shield in addition to safety glasses. |
| • Tools attachments can become loose or break and fly apart propelling articles at the operator and others in the work area. | • Make sure that any attachments are securely fastened and properly assembled before use.<br>• Always use the tool at a safe distance from others in the work area and ensure the work area is safe at all times. |

### ⚠WARNING RISK OF LOSS OF HEARING

| WHAT COULD HAPPEN | HOW TO PREVENT IT |
|---|---|
| • Exposure to noise produced from the operation of air tools can lead to permanent hearing loss. | • Always wear ANSI S3.19 hearing protection. |

### ⚠WARNING RISK OF FIRE OR EXPLOSION

| WHAT COULD HAPPEN | HOW TO PREVENT IT |
|---|---|
| • A ratchet wrench is capable of generating sparks which can result in ignition of flammable materials. | • Never operate tools near flammable substances such as gasoline, naphtha, cleaning solvents, etc.<br>• Work in a clean, well ventilated area free of combustible materials.<br>• Never use oxygen, carbon dioxide or other bottled gasses as a power source for air tools. |

## SAFETY INFORMATION

### ⚠WARNING RISK OF ENTANGLEMENT

| WHAT COULD HAPPEN | HOW TO PREVENT IT |
|---|---|
| • 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. | • Do not wear loose clothing, jewelry, or anything that may get caught or tangled when using tool.<br>• Remove any jewelry which may be caught by the tool.<br>• Always keep hands and body parts away from moving parts.<br>• Always wear proper fitted clothing and other properly fitted safety equipment when using this tool. |

### ⚠WARNING RISK OF CUT OR BURNS

| WHAT COULD HAPPEN | HOW TO PREVENT IT |
|---|---|
| • A ratchet wrench is capable of causing serious injury if operated in an improper way, or used in a manner which is not intended for the tool. | • Keep the working part of the tool away from hands and body. |

### ⚠WARNING RISK OF ELECTRIC SHOCK

| WHAT COULD HAPPEN | HOW TO PREVENT IT |
|---|---|
| • Using air tools to attached electrical wiring can result in electrical shock, electrocution, or death. | • Never use tools attached to electrical wiring while energized. |
| • This tool is not provided with an insulated gripping surface. Contact with a “live” wire will also make exposed metal parts of the tool “live” and can result in electrical shock, electrocution or death. | • Avoid body contact with grounded surfaces such as pipes, radiators, refrigerators, and ranges. There is an increased risk of electrical shock if your body is grounded. |
| • Air tool accessories such as impact sockets that come into contact with hidden electrical wiring could cause electrocution or death. | • Thoroughly investigate the work piece/area for possible hidden wiring before performing work. |

## SAFETY INFORMATION

**⚠ WARNING** **RISK OF PERSONAL INJURY**

| WHAT COULD HAPPEN | HOW TO PREVENT IT |
|---|---|
| • A tool left unattended or with the air hose attached can be activated by unauthorized persons leading to their injury or injury to others. | • Remove air hose when tool is not in use and store tool in secure location away from reach of children and untrained users. |
| • Air tools can propel fasteners or other materials throughout the work area. | • Use only parts, fasteners and accessories recommended by the manufacturer.<br>• Keep work area clean and free of clutter. Do not allow children to operate tool, and keep children away from the work area.<br>• Keep work area well lit. |
| • Always make sure to remove the wrench key before operating. A wrench key that is left attached to a rotating part of the tool increases the risk of personal injury. | • Remove adjusting keys and wrenches before turning the tool on. |
| • Using inflator nozzles for duster applications can cause serious injury. | • DO NOT use inflator nozzles for duster applications. |
| • Air tools can become activated by accident during maintenance or tool changes. | • Remove air hose to lubricate or add impact sockets to the tool.<br>• Never carry the tool by the air hose.<br>• Always carry the tool by the handle.<br>• Avoid unintentional starting. Never carry the tool with the trigger depressed or engaged.<br>• Only an authorized service representative should do repair servicing. |
| • Air tools can cause the workpiece to move upon contact, leading to injury. | • Use clamps or other devices to prevent movement. |
| • Loss of control of the tool can lead to injury to self or others in the work area. | • Before changing accessories, when making repairs, or when tool is not in use, always first shut off air supply and release/drain air pressure from hose. Then disconnect tool from air supply or hose and store in a safe location.<br>• Never use the tool while using drugs or alcohol. |

## SAFETY INFORMATION

**⚠ WARNING** **RISK OF PERSONAL INJURY**

| WHAT COULD HAPPEN | HOW TO PREVENT IT |
|---|---|
| • Loss of control of the tool can lead to injury to self of others in the work area. | • Keep proper footing at all times. Do not overreach, as slipping, tripping, and or falling can be a major cause of serious injury and or death. Be aware of excess air hose and power plugs in the working area or work surface.<br>• Keep handles dry, clean and free from oil/grease.<br>• Stay alert. Watch what you are doing. Use common sense. Do not operate tool when you are tired. |
| • Poor quality, improper or damaged tools and attachments can fly apart during operation, propelling particles through the work area causing serious injury. | • Always use tools attachments rated for the speed of the power tool.<br>• Never use tools, which have been dropped, impacted, or are damaged.<br>• Use only impact grade sockets with this tool.<br>• Do not apply excessive force to the tool; let the tool perform the work.<br>• Never use a tool that is leaking air, has missing or damaged parts, or requires repairs. |
| • Improperly maintained tools and accessories can cause serious injury. | • Maintain the tool and accessories with care.<br>• Keep tools clean properly oiled for best and safest performance. |
| • There is a risk of bursting if the tool is damaged. | • Check for misalignment or binding of moving parts, breakage of parts and any other condition that affects the tool's operation. If damaged, have the tool serviced before using.<br>• Wiping or cleaning flammable waste materials that may have been used on tool must be placed in a tightly closed metal container, and disposed of in a proper manner. |

## SAFETY INFORMATION

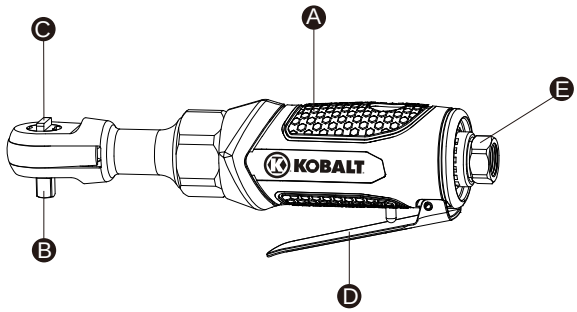
**⚠ WARNING** **RISK OF PERSONAL INJURY**

| WHAT COULD HAPPEN | HOW TO PREVENT IT |
|---|---|
| • There is a risk of bursting if the tool is damaged. | • Follow lubrication instructions for best and safest operation.<br>• Follow assembly and repair instructions on how to properly change accessories. |
| • Use of an accessory not intended for use with a specific tool increases the risk of injury to operator and anyone in the work area. | • Use of an accessory not intended for use with the specific tools increases the risk of injury to persons. |

**⚠ WARNING** **INHALATION HAZARD**

| WHAT COULD HAPPEN | HOW TO PREVENT IT |
|---|---|
| • Abrasive tools, such as grinders, sanders and cut-off tools, generate dust and abrasive materials, which can be harmful to human lungs and respiratory system. | • Always wear properly fitting facemask or respirator when using such tools. |
| • Some materials such as adhesives and tar contain chemicals whose vapors could cause serious injury with prolonged exposure. | • Always work in a clean, dry, well-ventilated area. |

## PACKAGE CONTENTS




| PART | DESCRIPTION | QUANTITY |
|---|---|---|
| A | Ratchet Wrench | 1 |
| B | Anvil | 1 |
| C | Forward/Reverse Knob | 1 |
| D | Trigger | 1 |
| E | Air Inlet | 1 |

## PREPARATION

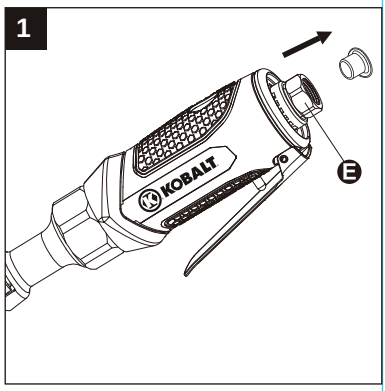
Before beginning the assembly of the product, make sure all parts are present. Compare parts with package contents list. If any part is missing or damaged, do not attempt to assemble the product.

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

Tools Required for Assembly (not included): Adjustable wrench

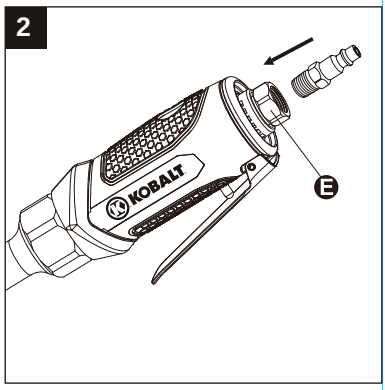
## ASSEMBLY INSTRUCTIONS

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

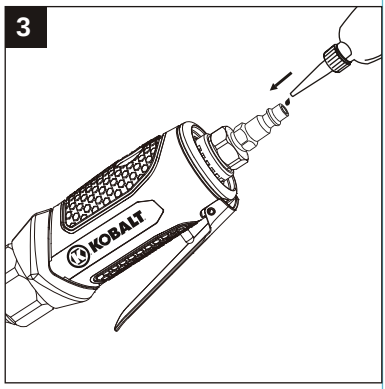



2. Mount a male plug (not included) by hand into the air inlet (E) (See Figure 2).

**NOTE** Use threaded sealant tape (not included) on the threading of the male plug. Once sealant tape is properly in place, tighten male plug turning clockwise with a wrench (not included) for air tight connection. DO NOT OVERTIGHTEN.




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



## ASSEMBLY INSTRUCTIONS

4. Mount a 1/4 in. to 3/8 in. adapter (not provided) onto the anvil (B) if necessary, and then choose the correct impact socket (not provided) as needed and mount it onto the adapter (See Figure 4).

**⚠ WARNING**

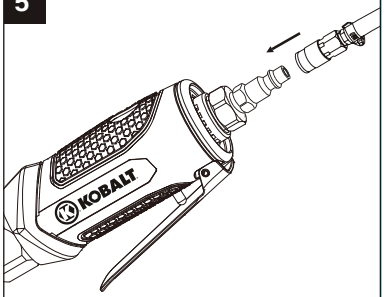
Only use adapter and sockets that have a torque rating equal to or greater than the tool itself.

Before using tool, always make sure attachments are properly mounted/secured. If attachments are not properly mounted/secured, they can present a serious hazard and may cause bodily injury for the operator or anyone in or around the work area. Always follow the attachment manufacturer's specifications for properly attaching accessories to tool.

**4**


5. Connect air supply hose to the male plug. Set the working pressure at 90 PSI for best tool performance (See Figure 5).

**5**

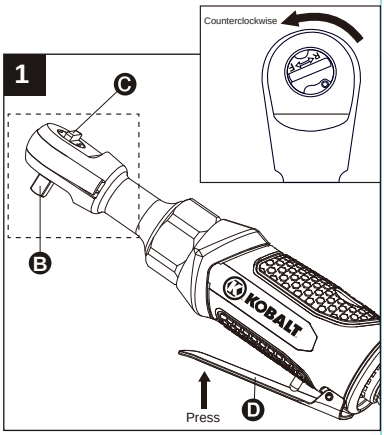



**NOTE** Working pressure refers to the line pressure reading when tool is under working conditions.

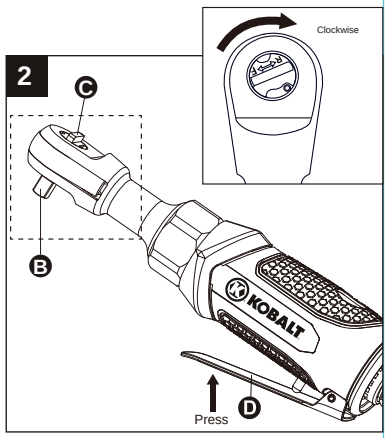
## OPERATING INSTRUCTIONS

1. To tighten or secure the threaded fasteners/workpiece, turn the forward/reverse knob (C) counterclockwise to the forward position. Press the trigger (D). The tool anvil (B) runs clockwise tightening/securing the threaded fasteners/ workpiece.

**1**



2. To remove or loosen the threaded fasteners/workpiece, turn the forward/reverse knob (C) clockwise to the reverse position. Press the trigger (D). The tool anvil (B) runs counterclockwise removing/loosening the threaded fasteners/workpiece.



## CARE AND MAINTENANCE

Always remove tool from air supply before performing any maintenance on tool.

An in-line oiler (not included) is recommended to be installed to air supply. It will help increase tool life and keep the tool properly lubricated. The in-line oiler should be regularly checked and filled with air tool oil as needed. To check if the in-line oiler is properly lubricating the tool, place a sheet of paper next to the tool's exhaust ports while holding the throttle completely open for 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, the tool should receive a generous amount of lubrication right before being stored. After being well lubricated, 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 wet dry environment away from the reach of children. Recommended lubricants: Use air-tool oil or any other high grade turbine oil containing moisture absorbent, rust inhibitors, metal wetting agent and an EP (extreme pressure) additive. Consult your local retailer for further assistance in selecting which air tool oil is best suited for proper lubrication.

STORING:

Tool must be well cleaned and lightly lubricated before storing.

Store air tool in a dry safe place, out of the reach of children.

## TROUBLESHOOTING

| PROBLEM | POSSIBLE CAUSE | CORRECTIVE ACTION |
|---|---|---|
| Tool runs slowly or will not operate. | 1. Grit or gum in tool. | 1. Flush the tool with air-tool oil or gum solvent. |
| | 2. No oil in tool. | 2. Lubricate the tool. |
| | 3. Low air pressure. | 3. a. Adjust the regulator on the tool to maximum setting.<br>b. Adjust the compressor regulator to tool maximum of 90 PSI. |
| | 4. Air hose leaks. | 4. Tighten and seal hose fittings if leaks are found. Use sealing tape. |
| | 5. Pressure drops. | 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.<br>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. |
| | 6. Worn rotor blade. | 6. Replace rotor blade. |
| | 7. Moisture blowing out of tool exhaust. | 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. |

## 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.

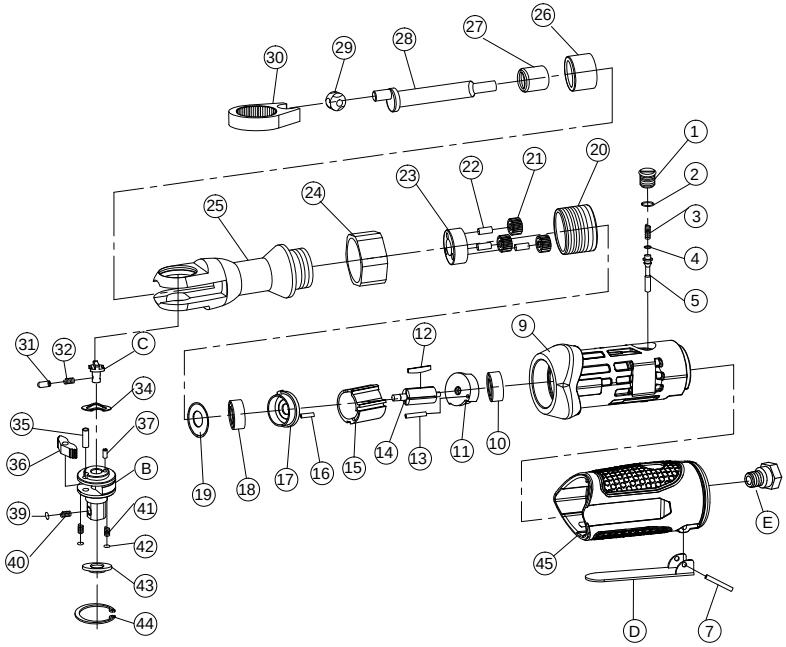
This tool is warranted to the original user to be free from defect in material and workmanship. If you believe that a tool is defective, return the tool, with proper proof of purchase to the point of purchase. If it is determined that the tool is defective and covered by this warranty, the distributor 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.

## EXPLODED VIEW




| Part No. | Description | Qty. |
|---|---|---|
| 1 | Valve Plug | 1 |
| 2 | O-ring | 1 |
| 3 | Spring | 1 |
| 4 | O-ring | 1 |
| 5 | Valve Stem | 1 |
| E | Air Inlet | 1 |
| 7 | Trigger Pin | 1 |
| D | Trigger | 1 |
| 9 | Gun Body | 1 |
| 10 | Bearing | 1 |
| 11 | Rear Plate | 1 |
| 12 | Rotor Blade | 4 |
| 13 | Pin | 1 |
| 14 | Rotor | 1 |
| 15 | Cylinder | 1 |
| 16 | Pin | 1 |
| 17 | Front Plate | 1 |
| 18 | Bearing | 1 |
| 19 | Washer | 1 |
| 20 | Thread Ring Gear | 1 |
| 21 | Idle Gear | 3 |
| 22 | Gear Pin | 3 |
| 23 | Gear Seat | 1 |
| 24 | Clamp Nut | 1 |

| Part No. | Description | Qty. |
|---|---|---|
| 25 | Ratchet Housing | 1 |
| 26 | Bearing | 1 |
| 27 | Shaft Sleeve | 1 |
| 28 | Eccentric Shaft | 1 |
| 29 | Driver Bushing | 1 |
| 30 | Ratchet Yoke | 1 |
| 31 | Sleeve | 1 |
| 32 | Spring | 1 |
| C | Forward/Reverse Knob | 1 |
| 34 | Washer | 1 |
| 35 | Pin | 1 |
| 36 | Ratchet Pawl | 1 |
| 37 | Pin | 1 |
| B | Anvil | 1 |
| 39 | Steel Ball | 1 |
| 40 | Spring | 1 |
| 41 | Spring | 2 |
| 42 | Steel Ball | 2 |
| 43 | Washer | 1 |
| 44 | Retainer Spring | 1 |
| 45 | Housing | 1 |

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