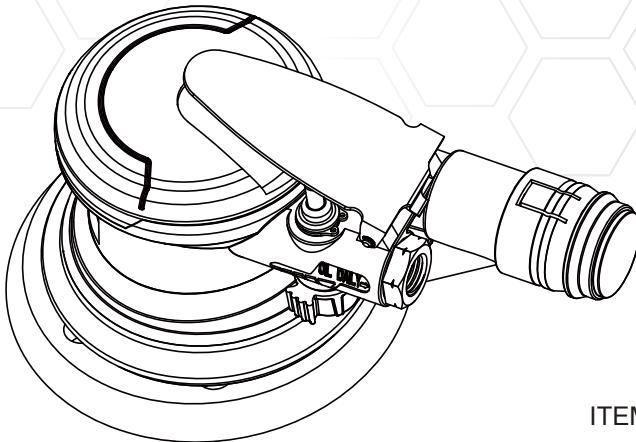




KOBALT®

NEXT GENERATION OF TOUGH TOOLS™



ITEM #0078914

6 IN. PALM SANDER VAC/NON-VAC

MODEL #SGY-AIR142TZ

Français p. 17

Español p. 33

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ATTACH YOUR RECEIPT HERE

Serial Number _____ Purchase Date _____



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

AB14953

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COMPRESSOR REQUIREMENTS



IMPORTANT: To operate correctly, this tool requires airflow of at least 6.4 cubic feet per minute (CFM) at 90 pounds per square inch (PSI) at the tool.

Air hoses may cause loss in pressure up to 15 PSI, requiring a higher compressor output to compensate and maintain required pressure at the tool. Check the specifications of your air compressor to be sure that it can support both the CFM and PSI required by this specific tool.

PRODUCT SPECIFICATIONS

COMPONENT	SPECIFICATIONS
SANDING PAD	6 IN.
FREE SPEED	10,000 RPM +/- 10%
AVERAGE AIR CONSUMPTION	6.4 CFM
AIR INLET	1/4 IN. NPT
AIR HOSE	3/8 IN.
WORKING PRESSURE	90 PSI

SAFETY INFORMATION

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

⚠ WARNING

Improper operation or maintenance of this tool could result in serious injury and property damage. Read and understand all warnings and operation instructions before using this tool. When using any tool, basic safety precautions should always be followed to reduce the risk of personal injury. Use each tool for its intended function only. Do not use this product in unsafe work conditions. It is always recommended to keep a fire extinguisher and first aid kit near work areas.

FAILURE TO OBSERVE AND FOLLOW SAFETY INSTRUCTIONS COULD RESULT IN INJURY OR DEATH.

⚠ 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 wear appropriate/approved safety equipment such as respirators or dust masks which are specially designed to filter microscopic particles.



SAFETY INFORMATION

⚠WARNING RISK OF EYE OR HEAD INJURY

WHAT COULD HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none">This air-powered tool is capable of propelling materials such as fasteners, metal chips, sawdust and other debris at high speed which could result in serious injury.	<ul style="list-style-type: none">Always wear ANSI approved Z87.1 safety glasses with side shields.Never leave a pressurized tool unattended. Disconnect tool from air supply when tool is not in use or when changing accessories to prevent accidental operation.
<ul style="list-style-type: none">Compressed air can be hazardous, propelling objects or particles that can cause injury into soft tissues such as eyes and ears.	<ul style="list-style-type: none">Never direct air at yourself or anyone else.For additional protection, use an approved face shield in addition to safety glasses.
<ul style="list-style-type: none">Tool attachments can become loose or break and fly apart, becoming projectiles or propelling other objects at the operator or bystanders in the work area.	<ul style="list-style-type: none">Make sure all attachments are properly assembled and securely fastened before use.Always use the tool at a safe distance from others in the work area. Maintain awareness of work area safety at all times.

⚠WARNING RISK OF LOSS OF HEARING

WHAT COULD HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none">Exposure to noise produced by air tools can lead to permanent hearing loss.	<ul style="list-style-type: none">Always wear ANSI S3.19 hearing protection.

⚠WARNING RISK OF FIRE OR EXPLOSION

WHAT COULD HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none">This tool is capable of generating sparks which can result in ignition of flammable materials.	<ul style="list-style-type: none">Work in a clean, well ventilated area free of combustible materials.Never operate tools near flammable substances such as gasoline, naphtha, cleaning solvents, etc.This tool is not recommended for use in explosive atmospheres or underwater. <p>Continued on next page.</p>



SAFETY INFORMATION

⚠WARNING RISK OF FIRE OR EXPLOSION

WHAT COULD HAPPEN	HOW TO PREVENT IT
Continued from previous page.	<ul style="list-style-type: none">Never use oxygen, carbon dioxide or other bottled gasses as a power source for air tools. Use only clean, dry air at the specified pressure.Wiping or cleaning rags and other flammable waste materials that may have been used on the tool must be placed in a tightly closed metal container, and disposed of in a proper manner.

⚠WARNING RISK OF ENTANGLEMENT

WHAT COULD HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none">Air 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.	<ul style="list-style-type: none">Do not wear loose clothing, jewelry, or anything that may get caught or tangled in the tool, hose or workpiece.Always keep hands and body parts away from moving parts.Always wear properly fitted clothing and other properly fitted safety equipment when using tools.Whipping hoses can cause serious injury. Always check for damaged or loose hose fittings before using tools.

⚠WARNING RISK OF CUTS OR BURNS

WHAT COULD HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none">Air tools are capable of causing serious injury if operated improperly, or in a manner for which the tool is not intended. Accessories can become extremely hot through friction where they contact the workpiece.	<ul style="list-style-type: none">Wear gloves when using tools.Keep the working part of the tool away from hands and body.Do not touch accessories with bare hands during or immediately after use.



SAFETY INFORMATION

WARNING RISK OF ELECTRIC SHOCK

WHAT COULD HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none">This tool is NOT electrically insulated. Contact with a "live" wire will also make exposed metal parts of the tool "live" and can result in electrical shock, electrocution injury or death.	<ul style="list-style-type: none">Never use air tools where they may come in contact with energized electrical wiring.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.Whenever possible, it is recommended that electrically non-conductive clothing and non-skid foot wear be worn when using tools.
<ul style="list-style-type: none">Air tool accessories such as impact sockets or drills that come into contact with hidden electrical wiring could cause electrocution or death.	<ul style="list-style-type: none">Thoroughly investigate workpieces and work areas for possible hidden wiring before performing work.

WARNING RISK OF PERSONAL INJURY

WHAT COULD HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none">An unattended tool could be activated by unauthorized/untrained persons, leading to their injury or injury to others.	<ul style="list-style-type: none">Remove air hose when the tool is not in use and store tool in a secure location away from reach of children and untrained users.
<ul style="list-style-type: none">Air tools can propel fasteners, loose/broken accessories or other objects throughout the work area.	<ul style="list-style-type: none">Never run the tool off the workpiece.Maintain awareness of work area safety at all times. Always be aware of other people around the work area to ensure safety.Use only parts, fasteners and accessories recommended by the manufacturer.Keep work area clean, free of clutter and well lit. Do not allow children to operate any tool, and keep children away from work areas.



SAFETY INFORMATION

WARNING RISK OF PERSONAL INJURY

WHAT COULD HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none">Wrenches and adjusting keys that are left attached to a rotating part of the tool may fly off and increase the risk of personal injury.	<ul style="list-style-type: none">Always remove and secure adjusting keys and wrenches before operating the tool.
<ul style="list-style-type: none">Using inflator nozzles for duster applications can cause serious injury.	<ul style="list-style-type: none">DO NOT use inflator nozzles for duster applications. Do not use inflator nozzles for any use other than the one intended.
<ul style="list-style-type: none">Air tools can become activated by accident while being handled, during accessory changes, tool changes, maintenance or repair.	<ul style="list-style-type: none">Disconnect the tool from the air supply during accessory changes, tool changes, maintenance or repair.Never carry the tool by the air hose. Never yank the air hose to disconnect it from the tool or the air supply.Always carry the tool by the handle.Avoid unintentional operation. Never carry the tool with the trigger depressed or engaged. Do not lock, tape or wire the trigger for continuous operation.Only an authorized service representative should do repair servicing.
<ul style="list-style-type: none">Air tools can cause the workpiece to move upon contact, leading to injury.	<ul style="list-style-type: none">Always make sure the workpiece is secure. Use clamps or other devices to prevent movement.
<ul style="list-style-type: none">Loss of control of the tool can lead to operator injury or injury to others in the work area.	<ul style="list-style-type: none">Always shut off the air supply and release/drain air pressure from the hose before changing accessories, making repairs. When tool is not in use, disconnect it from the air supply and store the tool in a safe location.Never operate tools while using drugs or alcohol.Do not overreach or stretch to operate the tool. <p>Continued on next page.</p>



SAFETY INFORMATION

WARNING RISK OF PERSONAL INJURY

WHAT COULD HAPPEN	HOW TO PREVENT IT
Continued from previous page.	<ul style="list-style-type: none">• Keep proper footing at all times when handling tools. Slipping, tripping and/or falling are major causes of serious injury and or death.• Keep tool handles dry, clean and free from oil/grease.• Be aware of excess air hose, electrical power sources and other obstacles or hazards in the work area.• Stay alert. Watch what you are doing. Use common sense. Do not operate tools when you are tired.• Operators must be able to easily handle the entire weight of the tool in operation, to maintain full control of the tool 100% of the time.
<ul style="list-style-type: none">• There is a risk of bursting if the tool is damaged.	<ul style="list-style-type: none">• Check for misalignment or binding of moving parts, broken parts and other conditions that affect safe tool operation.
<ul style="list-style-type: none">• Poor quality, improper or damaged attachments can detach or fly apart during operation, sending projectiles through the work area and causing serious injury.	<ul style="list-style-type: none">• Never use a tool which has been dropped, damaged or appears to malfunction. Never use tools which are leaking air or have missing parts. Remove damaged or malfunctioning tools from the workplace immediately.• Do not use pressure exceeding the recommended operating pressure of any of the parts (hoses, fittings, etc.) in the system.• Use only impact-grade sockets with air impact tools. Always use attachments rated for the speed of the tool. Do not modify tools or attachments.• Do not apply excessive force to the tool; let the tool perform the work.• Follow lubrication instructions for best and safest operation. <p>Continued on next page.</p>



SAFETY INFORMATION

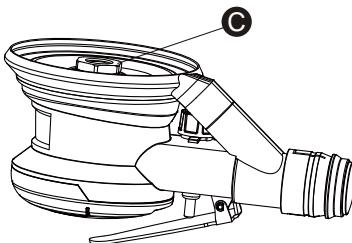
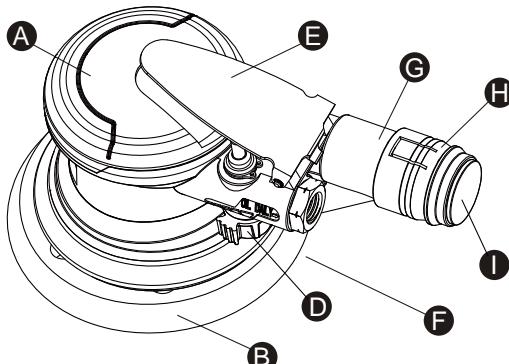
WARNING RISK OF PERSONAL INJURY

WHAT COULD HAPPEN	HOW TO PREVENT IT
Continued from previous page.	<ul style="list-style-type: none">Always follow assembly, operation, maintenance and repair instructions.
<ul style="list-style-type: none">Improperly maintained tools and accessories can cause serious injury.	<ul style="list-style-type: none">Maintain the tool and accessories with care. Do not abuse hoses or connectors.Keep hoses away from heat, oil and sharp edges. Always check air hoses for weak or worn connections before each use and make certain that all connections are secure.Keep tools clean and properly oiled for best and safest performance.
<ul style="list-style-type: none">Using an accessory not intended for a specific tool increases the risk of injury to the operator and everyone else in the work area.	<ul style="list-style-type: none">Always use accessories and attachments designed for the tool and the work at hand. Do not improvise or modify tools or accessories.
<ul style="list-style-type: none">Repetitive motions, awkward positions and exposure to vibration can be harmful to hands and arms.	<ul style="list-style-type: none">Discontinue use of tool if discomfort, tingling feeling or pain occurs. Consult a physician before resuming use if any of these symptoms occur.

WARNING INHALATION HAZARD

WHAT COULD HAPPEN	HOW TO PREVENT IT
<ul style="list-style-type: none">Abrasive tools such as grinders, sanders and cut-off tools generate dust and abrasive materials which can be harmful to the lungs and respiratory system.Paint spraying tools generate paint vapors which can be harmful to the lungs and respiratory system.	<ul style="list-style-type: none">Always wear a properly fitting facemask or respirator rated for the application when using such tools.
<ul style="list-style-type: none">Some materials such as adhesives and tar give off vapors which could cause serious injury with prolonged exposure.	<ul style="list-style-type: none">Always work in a clean, dry, well-ventilated area. Be aware of chemicals in the work area and read all Materials Safety Data Sheets (MSDS) for the materials and/or chemicals that may be present.

PACKAGE CONTENTS



PART	DESCRIPTION	QUANTITY
A	6 in. Palm Sander	1
B	Sanding Pad	1
C	Crank Shaft	1
D	Air Regulator Knob	1
E	Trigger	1
F	Air Inlet	1
G	Vacuum Adapter	1
H	Revolving Tube Attachment	1
I	Protective Cap	1

HARDWARE CONTENTS

AA	Wrench	1
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PREPARATION

Before assembling this tool, make sure all parts are present. Compare parts with package contents list and hardware contents list. If any part is missing or damaged, do not attempt to assemble the tool.

Estimated Assembly Time: 5-10 minutes

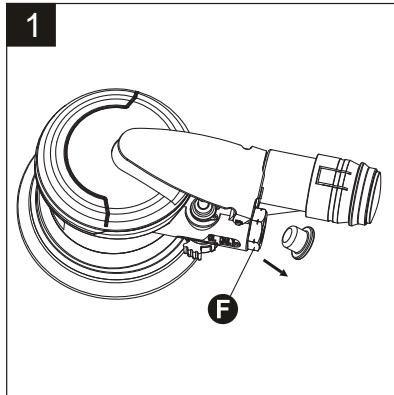
Tools and Materials Required for Assembly (not included):

- Adjustable wrench
- 1/4 in. male plug
- Thread sealant tape
- Air tool oil (NOTE: air tool oil is NOT compressor oil. Use of compressor oil in this tool can damage the tool and/or shorten tool life. Use only air tool oil in this tool.)
- Sandpaper

ASSEMBLY INSTRUCTIONS

To remove palm sander from packaging, slip the large end of the wrench (AA) between the sander and sanding pad and secure the crank shaft as shown in Fig. 3. Using the wrench to hold the crank shaft so it can't spin, turn the sanding pad counterclockwise.

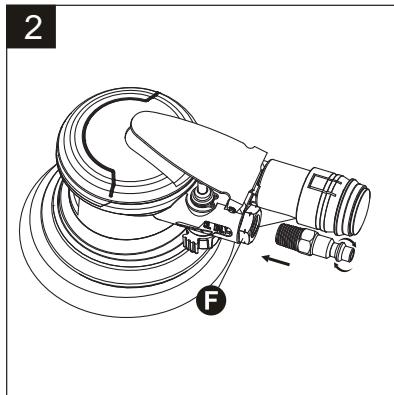
1. Remove plastic air inlet protective cap from air inlet (F) as shown in Fig. 1.



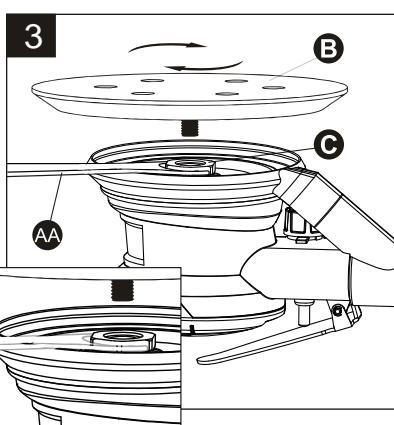
2. Prepare a 1/4 in. male plug (not included) by applying sealant tape (not included) to the threading, wrapping clockwise. Screw threaded male plug by hand into air inlet as shown in Fig. 2 and tighten with a wrench (not included) for an airtight connection.

DO NOT OVERTIGHTEN.

NOTE: Sealant tape must be used on this connection.



3. Make sure the sanding pad (B) is properly attached to the crank shaft (C). To do so, slip the large end of the wrench (AA) between the sander and sanding pad and secure the crank shaft as shown in Fig. 3. Using the wrench to hold the crank shaft so it can't spin, turn the sanding pad clockwise to make sure it is tightly attached.



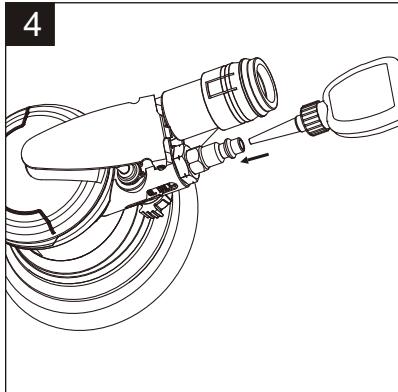
NOTE: To remove or replace the sanding pad, use this same procedure to secure the crank shaft. Unscrew the sanding pad by turning it counterclockwise. To replace the pad, make sure the threads are properly aligned and turn the pad clockwise until tightly attached.

ASSEMBLY INSTRUCTIONS

4. Mount sandpaper (not provided) onto the sanding pad following the appropriate instructions.

⚠WARNING

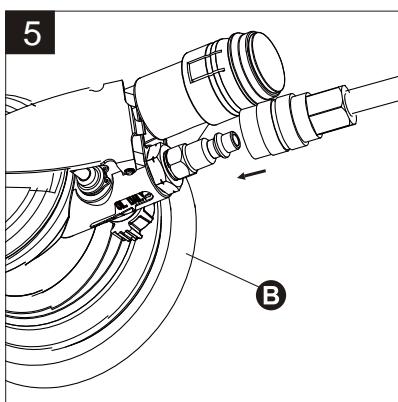
Use only sandpaper with an RPM rating equal to or greater than the tool itself. Always make sure all attachments are properly mounted and secure before using the tool. Loose attachments can break or fly off, causing serious injury to the operator or bystanders in the work area. Always follow all manufacturers' specifications for proper attachment and use.



5. Place 2 – 3 drops of air tool oil (not included) into the male air plug before each use, as shown in Fig. 4.

NOTE: Proper lubrication is EXTREMELY important to assure proper tool performance and avoid tool damage. ALWAYS lubricate the tool before each use if not using an in-line oiler.

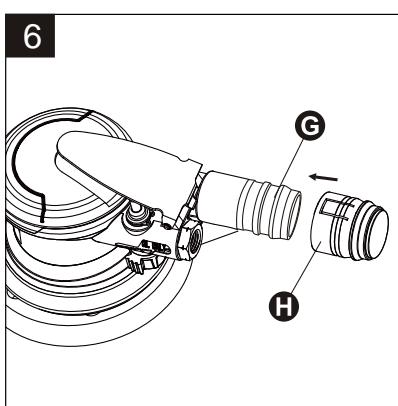
6. Make sure compressor air supply hose has correct fittings installed at each end: male coupler goes to compressor, 1/4 in. female coupler matches up to 1/4 in. male plug installed on the tool.



7. Connect the air supply hose to the male plug as shown in Fig. 5, making sure it is completely seated and secure. Set the working pressure at 90 PSI for best tool performance.

NOTE: To operate correctly, this tool requires airflow of at least 6.4 cubic feet per minute (CFM) at 90 pounds per square inch (PSI) at the tool.

8. This tool features a vacuum adapter (G) with revolving tube attachment (H) to prevent tangling when used with a dust-collecting vacuum system as shown in Fig. 6. To connect it, remove the plastic protective cap (I) from the revolving attachment; be sure to save the cap.



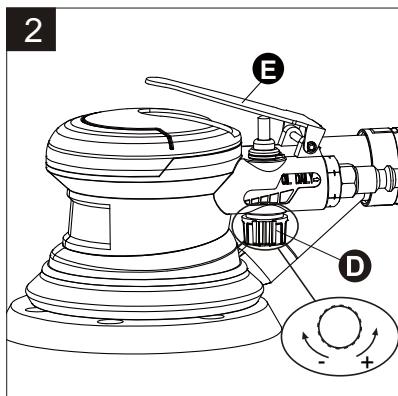
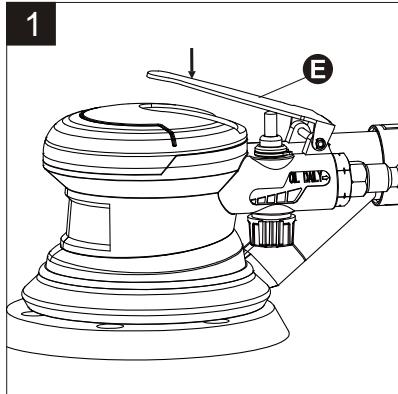
If NOT using a dust-collection system, make sure the plastic protective cap is securely in place on the revolving attachment to prevent blowing dust.

OPERATING INSTRUCTIONS

1. The palm sander includes a regulator to adjust the tool speed. Tool speed is adjusted by the air regulator knob (D) rolling the knob backwards (faster) or forwards (slower) as shown in Fig. 2. Minimum tool speed is indicated when the knob indicator is fully forward. Maximum tool speed is indicated when the knob indicator is fully backward.

2. To sand a workpiece, first ensure that tool speed is set to the slowest setting. Slowly press the trigger (E) to start the tool as shown in Fig. 1. It may be helpful to support the tool with both hands during startup.

3. Gradually increase tool speed as needed for your particular sanding application. NEVER start sanding with the tool at the highest speed setting.



⚠WARNING

Always make sure the workpiece is secure. Do not apply excessive force to the tool; let the tool perform the work.

CARE AND MAINTENANCE

ALWAYS DISCONNECT TOOL FROM THE AIR SUPPLY BEFORE PERFORMING ANY MAINTENANCE ON THE TOOL.

Always make sure the tool is properly lubricated during operation. Proper lubrication is shown in this instruction manual.

An in-line oiler (not included) is recommended to 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. Proper adjustment of the in-line oiler can be performed by placing a sheet of paper next to the tool's exhaust ports while holding the throttle completely open for 30 seconds. When a light stain of oil collects on the paper, the oiler is properly adjusted. Excessive amounts of oil should be avoided.

Clean the entire tool with a cotton rag after each use. If storing the tool for an extended period, it should be lubricated and run for approximately 30 seconds to ensure oil has been evenly distributed throughout the tool. Always store tools in a clean, dry environment away from the reach of children.

Recommended lubricants: air-tool oil or any other high grade turbine oil containing moisture absorbent, rust inhibitors, metal wetting agents and an EP (extreme pressure) additive. Consult your local retailer for further assistance in selecting air tool oil best suited for proper lubrication.

STORAGE:

Tool must be well cleaned and lightly lubricated before storing.

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

TROUBLESHOOTING

If the tool runs slowly or will not operate, check these possible problems and take the required corrective action:

POSSIBLE PROBLEM	SOLUTION
Grit or gum in tool.	Flush the tool with air-tool oil or gum solvent.
No oil in tool.	Lubricate the tool.
Low air pressure.	Adjust the regulator on the tool to the maximum setting. Adjust the compressor regulator to tool maximum of 90 PSI. NOTE: Air hoses may cause up to 15 PSI loss in pressure, so you may need to set a higher compressor output to maintain the required pressure at the tool.
Air hose leaks.	Tighten and seal hose fittings if leaks are found. Use sealing tape.
Pressure drops.	Be sure the hose is the proper size. Long hoses or tools using large volumes of air may require an internal diameter of 1/2 in. I.D. or larger, depending on total hose length. Do not use multiple hoses connected together with quick-connect fittings. This causes additional loss of pressure and reduces the tool power. Use single hoses of the proper length.
Worn rotor blade.	Replace rotor blade.
Moisture blowing out of tool exhaust.	Water in compressor tank; drain tank. (See air compressor manual.) Oil the tool and run until no water is evident. Oil the 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.

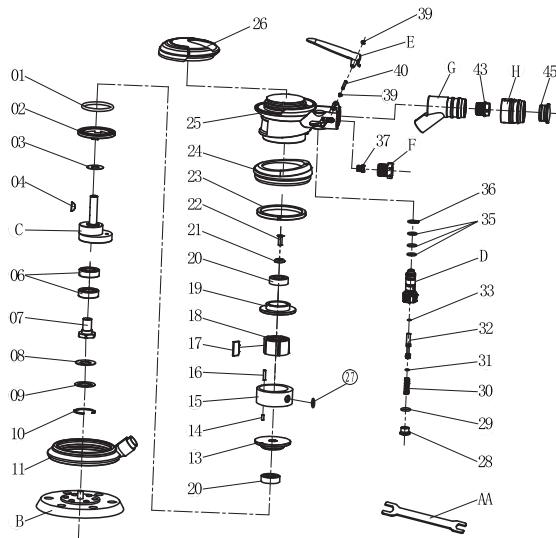
This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

For warranty questions, call our Customer Service Department at 1-888-3KOBALT, 8:00 a.m. – 8:00 p.m. EST, Monday – Friday.

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EXPLODED VIEWS



Part No.	Description	Qty.
1	O-ring	1
2	Lock ring	1
3	Washer	1
4	Semi-round key	1
C	Crank shaft	1
6	Bearing	2
7	Balance seat	1
8	Bearing shield	1
9	Bearing seal	1
10	Snap ring	1
11	Pad cover	1
B	Sanding pad	1
13	Front plate	1
14	Pin	1
15	Cylinder	1
16	Pin	1
17	Rotor blade	5
18	Rotor	1
19	Rear plate	1
20	Bearing	2
21	Washer	1
22	Screw	1
23	Set Ring	1

Part No.	Description	Qty.
24	Bottom Cover	1
25	Housing	1
26	Top Cover	1
27	O-ring	1
28	Regulator cap	1
29	O-ring	1
30	Spring	1
31	O-ring	1
32	Valve stem	1
33	O-ring	1
D	Air regulator	1
35	O-ring	3
36	Snap ring	1
37	Screw	1
F	Air inlet	1
39	E-clip	2
40	Pin	1
E	Trigger lever	1
G	Vacuum adapter	1
39	Outlet bushing	1
H	Revolving Tube Attachment	1
45	Cover	1
AA	Wrench	1