Coleman Powermate

Air Shear
Instruction Manual

Cisailles pneumatiques
Manual d'instructions

Manual de instrucciones para cizalla neumática

024-0175CT

⚠WARNING Read and understand all safety precautions in this manual before operating. Failure to comply with instructions in this manual could result in personal injury, property damage and/or voiding of your warranty. The manufacturer **WILL NOT** be liable for any damage because of failure to follow these instructions.

⚠AVERTISSEMENT Lisez et veillez à bien comprendre toutes les consignes de sécurité de ce manuel avant d'utiliser l'appareil. Toute dérogation aux instruc ions contenues dans ce manuel peut entraîner l'annulation de la garantie, causer des blessures et/ou des dégâts matériels. Le fabricant **NE SAURA** être tenu responsable de dommages résultant de l'inobservation de ces instructions.

⚠ADVERTENCIA Lea y comprenda todas las precauciones de seguridad contenidas en este manual antes de utilizar esta unidad. Si no cumple con las instrucciones de este manual podría ocasionar lesiones personales, daños a la propiedad y/o la anulación de su garantía. El fabricante **NO SERÁ** responsable de ningún daño por no acatar estas instrucciones.

200-2514, Rev. A

SAFETY GUIDELINES - DEFINITIONS

This manual contains information that is important for you to know and understand. This information relates to protecting YOUR SAFETY and PREVENTING EQUIPMENT PROBLEMS. To help you recognize this information, we use the following symbols. Please read the manual and pay attention to these sections.

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

⚠DANGER Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠WARNING Indicates a potentially hazardous situa ion which, if not avoided, could result in death or serious injury.

⚠CAUTION Indicates a potentially hazardous situa ion which, if not avoided, may result in minor or moderate injury and/or property damage.

IMPORTANT SAFETY INSTRUCTIONS

**** SAVE THESE INSTRUCTIONS ****

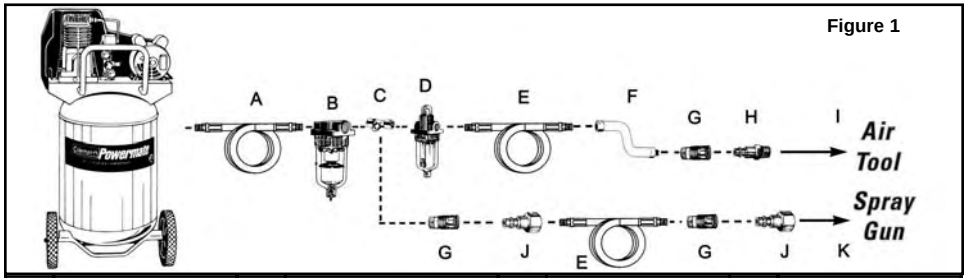
⚠WARNING To reduce the risk of electric shock, fire, and injury to persons, read all the instructions before using the tool. You must also read the compressor manual and follow all compressor safety instructions.

GENERAL SAFETY	
⚠WARNING 	**RISK OF ELECTRIC SHOCK, FIRE, AND/OR INJURY. Keep the work area clean and well lighted.** Cluttered benches and dark areas increase the risks of electric shock, fire, and injury to persons. Place cleaning rags and other flammable waste materials in a secured metal container. The container should be disposed of properly in accordance with local, state, and federal regulations.
WORK AREA SAFETY	
⚠WARNING 	**RISK OF EXPLOSION AND/OR FIRE. Do not operate the tool in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** The tool is able to create sparks resulting in the ignition of the dust or fumes.
⚠WARNING 	**RISK OF INJURY. Keep bystanders, children, and visitors away while operating the tool.** Distractions are able to result in the loss of control of the tool.
PERSONAL SAFETY	
⚠WARNING 	**RISK OF INJURY. Stay alert.** Watch what you are doing and use common sense when operating the tool. Do not use the tool while tired or under the influence of drugs, alcohol, or medica ion. A moment of inattention while operating the tool increase the risk of injury to persons.
	RISK OF INJURY. Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair increase the risk of injury to persons as a result of being caught in moving parts.
	RISK OF INJURY. Avoid unintentional starting. Be sure the trigger is off before connecting to the air supply. Do not carry the tool with your finger on the trigger or connect the tool to the air supply with the trigger on. Do not carry the tool by the hose or yank the hose to disconnect it from the air supply.
⚠WARNING 	**RISK TO BREATHING/INHALATION HAZARD. Always wear MSHA/NIOSH approved, properly fitting face mask or respirator and work in a well ventilated area when using tools that generate dust.** Some dust created by power sanding, grinding, drilling and other construction activities contains chemicals known (to the State of California) to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are: • lead from lead-based paints • crystalline silica from bricks and cement and other masonry products • arsenic and chromium from chemically treated lumber.
⚠WARNING 	**RISK OF INJURY. Remove adjusting keys and wrenches before turning the tool on.** A wrench or a key that is left attached to a rotating part of the tool increases the risk of personal injury.
	RISK OF INJURY. Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enables better control of the tool in unexpected situations.
⚠WARNING 	**RISK OF EYE INJURY. After oiling, cover the exhaust port with a towel and operate the tool for a few seconds to safely remove the excess oil.** Failure to cover the exhaust port can result in serious injury. ***Note: Keep the towel away from moving parts!***

PERSONAL SAFETY (continued)	
	**RISK OF HEARING LOSS. Always wear ANSI S3.19 approved ear protection when using the tool.** Prolonged exposure to high intensity noise is able to cause hearing loss.
	**RISK OF EYE INJURY. Always wear ANSI Z87.1 approved safety goggles when using an air tool.** Air powered equipment and power tools are capable of propelling materials such as metal chips, sawdust, and other debris at high speed which could result in serious eye injury.
	**RISK OF ELECTRIC SHOCK. Explore the workpiece to avoid contact with hidden wiring.** Thoroughly investigate the workpiece for possible hidden wiring before performing work. Contact with a "live" wire will also make exposed metal parts of the tool "live" and shock the operator.
	**RISK OF INJURY. Avoid prolonged exposure to vibration.** Air powered tools can vibrate during use and repetitive motion or vibration may cause injury. Avoid prolonged use of the tool or stop using the tool if discomfort occurs.
TOOL USE AND CARE SAFETY	
	**RISK OF INJURY. Use clamps or another practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against the body is unstable and is able to lead to loss of control.
	RISK OF INJURY. Do not force the tool. Use the correct tool for the application. The correct tool will do he job better and safer at the rate for which the tool is designed.
	RISK OF INJURY. Do not use the tool if the trigger does not turn the tool on or off. Any tool that cannot be controlled with the trigger is dangerous and must be repaired.
	RISK OF INJURY. Disconnect the tool from the air source before making any adjustments, changing accessories, or storing the tool. Such preventative safety measures reduce the risk of starting the tool unintentionally.
	RISK OF INJURY. Store the tool when it is idle, out of reach of children and other untrained persons. A tool is dangerous in the hands of untrained users.
	**RISK OF BURSTING AND/OR INJURY. 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. Do not operate the tool with the protective guarding removed or damaged. Replace he tool or have it repaired by an authorized service center. Many accidents are caused by poorly maintained tools or air hose. There is a risk of bursting if the tool is damaged.
	RISK OF BURSTING AND/OR INJURY. Check for damaged air hose. Keep the air hose away from heat, oil, and sharp edges. Inspect the air hose periodically and replace it if it becomes worn or damaged.
	RISK OF BURSTING AND/OR INJURY. Use compressed air regulated to a maximum pressure at or below the rated pressure of any attachments. Never operate the tool over 90 PSI. Exceeding the maximum pressure rating of tools or accessories could cause an explosion resulting in serious injury.
	**RISK OF INJURY. Use only accessories that are designed for the specific tool.** Use of an accessory not intended for use with the specific tool, increases the risk of injury to persons.
TOOL SERVICE SAFETY	
	**RISK OF INJURY. Tool service must be performed only by qualified repair personnel.**
	RISK OF INJURY. When servicing a tool, use only identical replacement parts. Use only authorized parts.
	Use only the lubricants supplied with the tool or specified by Coleman Powermate.
AIR SOURCE SAFETY	
	**RISK OF BURSTING AND/OR INJURY. Never connect to an air source that is greater than 90 psi.** Over pressurizing the tool is able to result in bursting, abnormal operation, breakage of the tool, or serious injury to persons. Use only clean, dry, regulated compressed air at the rated pressure or within the rated pressure range as marked on the tool. Always verify prior to using the tool that the air source has been adjusted to the rated air pressure or within the rated air pressure range.
	**RISK OF EXPLOSION AND INJURY. Never use oxygen, carbon dioxide, combustible gases or any bottled gas as an air source for the tool.** Such gases are capable of explosion and serious injury to persons.

TYPICAL INSTALLATION

Figure 1



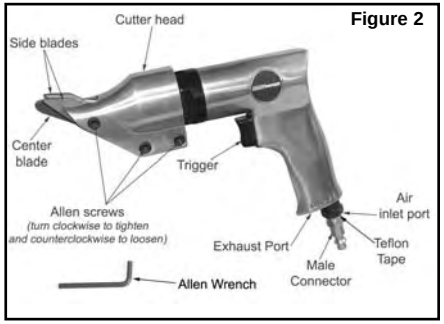
Key	Description	Key	Description	Key	Description	Key	Description
A	Air hose	D	In-line Oiler	G	Quick Coupler	J	Female Connector
B	In-line Filter	E	Air Hose	H	Male Connector	K	Spray Gun
C	Tee Fitting	F	Whip Hose	I	Air Tool		

OPERATING INSTRUCTIONS

To begin using the tool:

1. As a standard prac ice, drain water from the air compressor tank and air lines prior to use each day (reference your compressor operators manual for detailed instruc ions).
2. Install a 1/4" NPT male connector (not included) into the air inlet port on the tool (see Figure 2). ***Note: Use Teflon® Tape on all threaded connections.***
3. Turn on he air compressor and allow it to build up pressure.

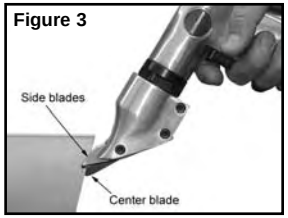
Figure 2



⚠WARNING **Keep hands and body away from moving parts.**

4. Adjust the air compressor's regulator or the supply line regulator to 90 PSI.
5. Lubricate the tool (see user-maintenance instructions).
6. Connect he tool to he air hose quick coupler. ***NOTE: It is recommended that a whip hose with a swivel (P012-0079SP - not included) be used to prevent twisting, kinking, and excessive wear to the air hose (see figure 1 for recommended connections).***
7. Place the side blades on the edge of he top side of the workpiece (see Figure 3). ***NOTE: Always lubricate the material that is being cut. Use standard machine oil on steel and mineral spirits on aluminum.***
8. Squeeze the trigger gently to start the tool. Move he tool forward keeping the side blades flush with the workpiece surface. Tool speed is increased by increasing pressure on the trigger. ***NOTE: Do not force the tool. Too much pressure can cause the blades to break or bind. Too little pressure will cause the blade to not cut properly.***

Figure 3



⚠WARNING **This tool is capable of propelling materials such as metal chips when in use. Always wear ANSI Z87.1 approved safety goggles when using this tool.**

⚠WARNING **Edges and pieces of the workpiece are sharp. Wear gloves to avoid injury.**

9. When finished cut ing, remove tool from he workpiece while the motor is still running. Release the trigger to stop the tool.

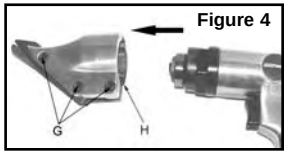
USER-MAINTENANCE INSTRUCTIONS

Replacement of blades

⚠WARNING **Always disconnect the tool from the air source before changing the blades or lubricating. Do not operate the tool if the cutting head and blades are not in place and tightened.**

1. Loosen he 3 allen screws (G) on he cutting head (H). Pull the cutting head straight out while turning it back and for h to release it from the motor (see figure 4).

Figure 4



NOTE: Refer to Figure 5 for steps 2-11.

2. Remove the front 2 allen screws that hold the blades in place, being careful not to loose the spacers (B & E) or the nuts (F) that are on the end of the screws.
3. Remove the 2 side blades (A & D), center blade (C) and spacers (B & E).
4. Lay out he new blades as shown in Figure 5.
5. Lubricate and then insert spacer (B) into he center blade (C).
6. Reassemble the blades into the cut ing head by placing he center blade (C) on top of side blade (A) then place side blade (D) on top of center blade (C).

USER-MAINTENANCE INSTRUCTIONS (continued)

7. Insert the 3 blades together into the cutting head (H) aligning the holes closest to the top of the blades with the top hole in the cutting head (H). Insert an allen screw through the cutting head (H), 3 blades and then through the bottom of he cutting head. Thread a nut (F) onto the bottom of he allen screw. Do not overtighten the allen screw at this time.
8. Line up the back holes of the side blades (A & D) with the center hole in he cutting head (H). Place the spacer (E) between the blades and insert an allen screw through the cutting head (H), side blade (A), spacer (E), side blade (D) and then through the bottom of the cutting head. Thread a nut (F) onto the bottom of the allen screw. Do not overtighten the allen screw at this time.
9. Install the assembled cut ing head back onto the tool motor.
10. Tighten all 3 allen screws securely with the allen wrench.

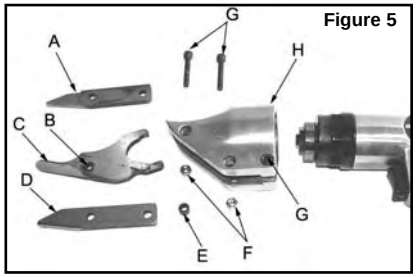


Figure 5

Cutting Head Lubrication

To keep the blades opera ing smoo hly, lubricate the contact points each time you use the tool (see Figure 6).

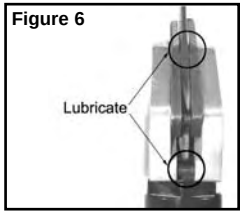


Figure 6

Air Motor Lubrication

To maintain he maximum performance of the air tool, it must be lubricated each time it is used. Dust, dirt, rust and oil residue will build up inside he tool and reduce the performance. An in-line oiler is recommended for proper automatic tool lubrication (see Figure 1). If an in-line oiler is not available, the tool can be lubricated manually through he inlet port (see Figure 7).

1. Disconnect he air tool from the air supply.
2. Turn the tool upside down and while depressing the trigger, add 4-6 drops of Coleman Powermate® air tool oil #018-0059SP or SAE10 nondetergent oil into he air inlet. ***NOTE:*** *Depressing the trigger helps circulate the oil in the air motor.*
3. Reconnect he tool to he air supply, cover the exhaust port end with a towel and run for approximately 30 seconds to remove excess oil. ***NOTE: If the tool remains sluggish after it has been lubricated, the internal components may need to be cleaned.***

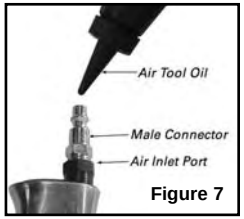


Figure 7

To Clean:

Disconnect he air tool from the air supply and pour or spray a generous amount of WD-40® into the air inlet with the trigger depressed. Connect he tool to he air supply, cover the exhaust port end with a towel and run for approximately 30 seconds. Follow the air motor lubrication instructions above after cleaning is completed to re-lubricate the tool.

⚠WARNING **After oiling or cleaning, cover the exhaust port with a towel and operate the tool for a few seconds to safely remove the excess oil. Clean the handle and surface of the tool of any oil residue. Failure to cover the exhaust port and clean the tool, can result in serious injury.** ***Note: Keep the towel away from moving parts!***

TROUBLESHOOTING GUIDE

SYMPTOM	POSSIBLE CAUSE(S)	CORRECTIVE ACTION
Tool will not run or runs slowly	Grit in tool; tool gummed up	Clean the air motor inside the tool with WD-40® (see “user maintenance” section).
	No oil in tool	Add 4-6 drops of air tool oil into the air inlet of the tool (see “user maintenance” section).
	Low air pressure	Adjust compressor regulator to 90 PSI.
	Air hose leaks	Tighten and seal hose fittings with Teflon® tape if leaks are found.
Rough cut edges or tool jams	Applying uneven pressure	Apply even pressure. Too much pressure can cause a rough cut or cause the tool to jam.
	Blades are dull.	Replace blades (see “user maintenance” section).

TOOL SPECIFICATIONS

Air Inlet	1/4” NPT (Female)
Average SCFM Requirements	6.0 SCFM @ 90 PSI
Recommended Hose Size	3/8”
Maximum Working Pressure	90 PSI
Strokes Per Minute	2,200 RPM
Maximum Cutting Capacity	18 gauge steel

LIMITED WARRANTY

ONE YEAR LIMITED WARRANTY: Powermate Corporation (the Company) warrants that for a period of twelve (12) months from he date of purchase, it will replace or repair, free of charge, for the original retail purchaser only, any part or parts, manufactured by the Company, found upon examination by the Company or its assigned representatives, to be defective in material or workmanship or both. All transportation charges for parts submitted for replacement or repair under this warranty must be borne by the original retail purchaser. This is the exclusive remedy under this warranty.

Failure by the original retail purchaser to install, maintain and operate said equipment in accordance with good industry practices, or failure to comply with the specific recommendations of the Company set forth in the owner’s manual, shall render this warranty null and void. The Company shall not be liable for any repairs, replacements, or adjustments to the equipment or any costs for labor performed by he purchaser without the Company’s prior written approval. The effects of corrosion, erosion and normal wear and tear are specifically excluded from this warranty.

THE COMPANY MAKES NO OTHER WARRANTY OR REPRESENTATION OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED EXCEPT THAT OF TITLE. ALL IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. LIABILITY FOR CONSEQUENTIAL AND INCIDENTAL DAMAGES UNDER ANY AND ALL WARRANTIES, OTHER CONTRACTS, NEGLIGENCE, OR OTHER SORTS IS EXCLUDED TO THE EXTENT EXCLUSION IS PERMITTED BY LAW.

Notwi hstanding the above, any legal claim against the Company shall be barred if legal action thereon is not commenced within twenty-four (24) months from the date of purchase or delivery whichever occurs last. This warranty constitutes the entire agreement between the Company and the original retail purchaser and no representative or agent is authorized to alter the terms of same without expressed written consent of the Company.

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