

Operating Instructions

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.



Rotary Cutting Tool

Description

This air powered rotary cutting tool is designed for cutting, sanding and grinding. This tool may be used with other brands of cutters, stones, sanding drums, router bits and grinding points. Using the correct accessory you can cut, sand, or grind a large assortment of materials such as:

Building Material - Acoustical tile, cement board, ceramic, ceramic wall tile, drywall, fiberglass, glass, hardwoods, marble, OSB, plaster, shell/stone, stucco, underlayment, wood composites.

Plastic - Acrylic, foam board, laminates, vinyl siding.

Metals - Aluminum, brass, iron, steel.

Safety Guidelines

This manual contains information that is very important to know and understand. This information is provided for SAFETY and to PREVENT EQUIPMENT PROBLEMS. To help recognize this information, observe the following symbols.

⚠ DANGER Danger indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.

⚠ WARNING Warning indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.

⚠ CAUTION Caution indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate injury.

📌 NOTICE Notice indicates important information, that if not followed, may cause damage to equipment.

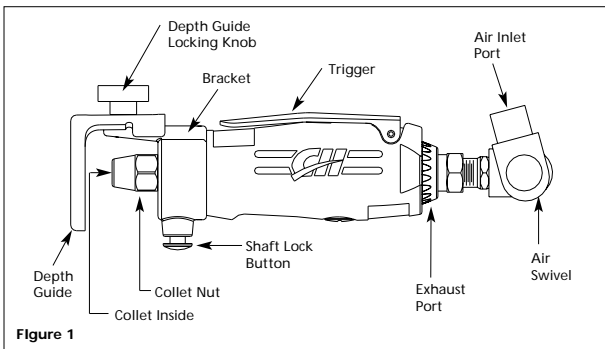


Figure 1

General Safety Information

CALIFORNIA PROPOSITION 65

⚠ DANGER

You can create dust when you cut, sand, drill, grind material such as wood, paint, metal, concrete, cement, or other masonry. This dust often contains chemicals known to cause cancer, birth defects, or other reproductive harm. Wear protective gear.



WORK AREA SAFETY

Keep your work area clean and well lit. Cluttered benches and dark areas invite accidents.

⚠ WARNING Avoid a dangerous environment. Do not use air tools in the presence of flammable liquids or gases. Avoid chemical or corrosive environments.



This air tool is part of a high-pressure air system. Do not exceed the maximum pressure rating of this tool or any component in the system. Release all pressure from the system before attempting to install, service, relocate or perform any maintenance.



Keep by-standers, children and visitors away while operating a power tool. Distractions can cause you to lose focus and control.

Everyone in the work area must wear the proper safety equipment. Grinding and cutting produces sparks, air borne particles and accessories can fail during use causing serious personal injury. Use ANSI/OHSA approved eye, hearing, breathing, skin and head protection.



Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enables better control of the tool in unexpected situations.

Never work around live electrical wires. If cutting into existing walls or other blind areas where electrical wiring may exist is unavoidable, disconnect all fuses or circuit breakers feeding this work area.



PERSONAL SAFETY

⚠ WARNING Stay alert, pay attention and use common sense when operating any power tool. Do not use tool while tired or under the influence of drugs, alcohol or medication. One second of

General Safety Information (Continued)

inattention while operating any power tool may result in serious personal injury.

WARNING Excessive exposure to vibration, working in awkward positions and repetitive work motions can cause injury to hands and arms. Stop using any tool if discomfort, numbness, tingling or pain occur and consult a physician.

DANGER Do not use tool on hazardous materials. Some building materials or work surfaces may contain known hazardous materials. If the hazardous material is touched or particulate breathed, medical problems could occur.

CAUTION Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing and gloves away from moving parts. Loose clothing, jewelry or long hair can be caught in moving parts.

Disconnect the tool from the power source before making any adjustments, changing accessories and/or attachments or storing. Such preventive safety measures will reduce accidents.

TOOL SAFETY AND CARE

WARNING Only persons well acquainted with these instructions should be allowed to use this tool. Any persons not wearing the proper safety equipment or unfamiliar with this tool's operation can become seriously injured.

NOTICE Do not exceed the maximum operating pressure of this tool (90 psig). Pressures higher than 90 psig will reduce the life of the tool. Maximum operating pressure of 90 psig is measured at the tool air inlet while the tool is running. Any compensation for airline pressure drop must be made at the compressor regulator.

Recommended accessories: Not all 1/8" or 1/4" accessories that fit this tool are recommended. Read the safety and operating information provided by the manufacturer of the accessory. Some accessories with large cutting surfaces might be hard to control due to tool rotating speed. Do not use 1/4" cutout bits. The cutting flutes on 1/4" cutout



bits are too aggressive, making it hard to control this tool.

WARNING Do not use damaged accessories. Accessory can become damaged during shipment or after attachment to the tool. Damaged accessory can fly apart as the tool comes up to speed. Inspect accessory before and after attaching it to the tool and before each use.

Do not use any accessories that were not designed for this tool. Use only accessories with a speed rating higher than 25,000 RPM's.

This product is not designed to use cut-off wheels, no guard is provided.

NOTICE Do not force the tool. Allow the tool and accessory to do the work; applying too much force will damage the accessory or cause it to break.

WARNING Use clamps or other practical ways to secure and support the workpiece. Holding the work-piece in your hand or against your body is unstable, dangerous and could cause an accident, don't do it.

CAUTION Always make sure the workpiece is free from nails, staples or other foreign objects. Cutting into a hard object like a nail can cause the accessory to break, causing personal injury.

Use the depth guide when cutting with bits. The guide, when securely positioned on the work surface, improves the stability and control of the tool.

CAUTION Do not use dull accessories. Dull accessories will require more force to push the tool, possibly causing the accessory to break and causing personal injury.

Never touch the bit during or immediately after use. The cutting flutes on bits will cut you if touched while tool is running. Bits will become hot to the touch when cutting.

WARNING Do not trigger the tool while the wrench is on the collet nut or the shaft lock is engaged. Personal injury can occur if the wrench is not removed before turning on the tool.

Do not engage the shaft lock while the tool is running. Stopping the tool quickly with the shaft lock can cause damage to the tool and a possible dangerous situation.

CAUTION After changing the accessories or making any adjustments, make sure the collet nut and other tool parts are securely tightened. Loose accessories or parts can cause a loss of control, which might cause a personal injury.

Never start the tool against the work surface when a cutting bit is attached. The bit cutting edge may grab the material causing loss of control of the cutter, which might cause personal injury.

WARNING Do not abuse the hose. Never use the hose to carry the tool or pull the compressor. Keep hose away from heat, oil, sharp edges or moving parts.

WARNING Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified persons could result in serious personal injury.

For system setup refer to Instructions on IN170102AV. Refer to tool diagram Figure 1 and callouts on front page.

Pre-Operation

WARNING Use of a whip hose prevents accidental triggering of the tool when pressurized air is connected to the tool.

Using fittings or air hoses, which are too small, can create a pressure drop, which will result in a loss of power in the tool.

LUBRICATION

Air tools require lubrication throughout the life of the tool. Proper lubrication is the owner's responsibility. Use Campbell Hausfeld airtool oil (Part No. ST127000AV) to lubricate, clean and inhibit rust in one step. Failure to lubricate and maintain an air tool properly will dramatically shorten the life of the tool and will void the warranty. This air tool requires lubrication before initial use and before and after each use.

How to lubricate tool:

1. Disconnect the tool from air supply if connected.
2. Turn the tool with the air swivel pointing upward.
3. With the trigger pulled, add a teaspoon of oil to the air inlet port.
4. Release trigger and connect the air hose. Cover exhaust port with a rag, then run tool for approximately 20 seconds.

Pre-Operation (Cont.)

5. Wipe the tool clean.

WARNING Cover tool exhaust port with a rag and then apply air pressure. Failure to cover exhaust port will allow oil mist to be sprayed from tool, which might cause damage to work piece and cause personal injury.

Operation

Follow the previous safety instructions. Check for proper system setup and connection of the tool.

INSTRUCTIONS ON USING CUTOUT BITS

CAUTION Do not use 1/4" cutout bits with this tool. The cutting flutes on 1/4" cutout bits are too aggressive, making this tool hard to control.

- With air hose disconnected, install the cutting bit into the tool by:
 - With the shaft lock button depressed loosen the collet nut by turning counter clockwise (CCW) with a 5/8" wrench. A couple of rotations CCW are all that is needed.
 - Insert the bit into the collet leaving 1/16" to 1/8" of smooth shank visible above the collet. **NOTE:** The bit flutes are sharp, handle with care.
 - After properly placing the bit into the collet, depress the shaft lock button and simultaneously tighten the collet nut in a clockwise (CW) direction. Tighten collet nut by hand first, then use a wrench until bit is held securely.

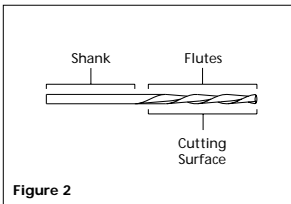


Figure 2

CAUTION If the bit flutes are inside the collet when the collet nut is tightened, the bit may break.

CAUTION If the cutting bit is removed from the tool for storage, do not tighten the collet nut. Tightening the collet nut on an empty collet will cause the collet hole to become smaller, preventing you from inserting a bit in the future.

- Adjust the depth guide. Use the depth guide to adjust the depth of the cut. The depth guide assembly consists of the depth guide, locking knob and bracket. Loosen the locking knob by turning counter clockwise (CCW) enough to enable the depth guide to slide up or down to the desired depth of your cut and retighten the locking knob by turning clockwise (CW). It is best to allow the cutting bit to be 1/16" greater than the material you are cutting.

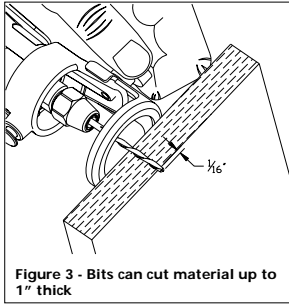


Figure 3 - Bits can cut material up to 1" thick

- Check that all parts are tight and safety equipment is in place before turning on the tool.
 - Attach the air hose, turn on the tool while holding tool firmly and apply to work-piece by inserting the bit into the material at a 45-degree angle.
 - Slowly bring it to a 90-degree angle to begin the cut. The guide should be firmly touching the work-surface. For most materials, slide the tool in a clockwise direction with a slow and steady pressure to make the cut.
- NOTE:** When using a bit and cutting drywall, use a counter clockwise (CCW) rotation.
- After completing your cut, turn off the tool and carefully remove it from the work surface.

NOTE: Because of the rotating cutting action of the bit, there will be a slight pull when cutting. The slower you cut,

the more control you have. Excessive force will cause excessive heat and may shorten the life of the bit.

NOTE: When cutting on a vertical surface, avoid ending your cut at the bottom of the hole. If possible, start and end your cut at the top so scrap material will not drop onto the rotating bit.

INSTRUCTIONS ON USING GRINDING STONES, HIGH-SPEED CUTTERS AND BURRS

NOTE: This tool is shipped with a 1/8" collet installed in the tool. If 1/4" bits are to be used then the 1/8" collet needs to be removed from the tool. The 1/8" collet can be removed by removing the collet nut and pulling out the 1/8" collet.

Disconnect the air hose.

- Remove any accessory that is in the tool.
- Insert the accessory fully into the collet, and then pull out approximately 1/16" before tightening collet nut.
- The depth guide may or may not be used depending on your application.
- Check that all parts are tight and safety equipment is in place before turning on the tool.
- Attach the air hose and begin cutting, grinding or sanding.

NOTE: Do not try to use accessories with 1/32", 1/16", or 3/32" diameter shanks. Some 1/8" shank high-speed router bits have large cutting edges and should not be used in this tool.

CAUTION Do not use wire brushes, bristle brushes or polishing wheels in this tool. These accessories are designed to work on tools with a low RPM setting.

WARNING When using steel cutters or tungsten carbide cutters, always have the work securely clamped. Never attempt to hold the work with one hand while using any of these accessories. The reason is that these accessories could grab if they become slightly canted in the groove and could kickback or break causing loss of control, resulting in serious personal injury. Your second hand should be used to steady and guide the hand holding the tool.

**Operation
(Continued)**

Storage

The air tool must be lubricated before storing. An air motor cannot be oiled too often.

Technical Service

For information regarding the operation or repair of this product, please call 1-800-543-6400. If you are calling from Ohio or outside the continental United States, please call collect: 1-513-367-1182.

Replacement Parts Information

For information regarding where to order replacement parts, call toll free 1-800-543-8622. Please provide the following information:

- Model number
- Stamped-in code
- Part number and description

Address parts correspondence to:

Campbell Hausfeld
Attn: Parts Department
100 Production Drive
Harrison, Ohio 45030 U.S.A.

Troubleshooting Chart

Symptom	Possible Cause(s)	Corrective Action
Tool runs slowly or will not operate	1. Grit or gum in tool	1. Flush the tool with Campbell Hausfeld air tool oil, gum solvent, or an equal mixture of SAE 10 motor oil and kerosene. If Campbell Hausfeld oil is not used, lubricate the tool after cleaning
	2. No oil in tool	2. Lubricate the tool according to lubrication instructions in Pre-Operation section
	3. Low air pressure	3. Adjust the compressor regulator to tool maximum while the tool is running free
	4. Air hose leaks	4. Tighten and seal hose fittings if leaks are found
	5. Pressure drops	5. Be sure hose is properly sized. Long hoses or tools using large volumes of air may require a hose with an I.D. of 1/2" or larger depending on total hose length
	6. Worn ball bearing in motor	6. Remove and inspect bearing for rust, dirt, grit or worn race. Clean and regrease bearing with bearing grease or replace bearing
Moisture blowing out of tool	1. Water in tank	1. Drain tank (See air compressor manual). Oil tool and run until no water is evident. Oil tool again and run 1-2 seconds
	2. Water in the air lines/hoses	2a. Install a water separator/filter (PA2121). NOTE: Separators work properly only when air steam is cool. Locate separator/filter as far as possible from compressor
		2b. Install an air dryer
	2c. Anytime water enters the tool, the tool should be oiled immediately	
Excessive vibration	1. Damaged stone or burr	1. Replace with new stone or burr
	2. Collet shaft bent	2. Replace shaft or collet

Limited Warranty

1. **DURATION:** From the date of purchase by the original purchaser as follows: Standard Duty Products - One Year, Serious Duty Products - Two Years, Extreme Duty Products - Three Years.
2. **WHO GIVES THIS WARRANTY (WARRANTOR):** Campbell Hausfeld / Scott Fetzer Company, 100 Production Drive, Harrison, Ohio, 45030, Telephone: (800) 543-6400
3. **WHO RECEIVES THIS WARRANTY (PURCHASER):** The original purchaser (other than for purposes of resale) of the Campbell Hausfeld product.
4. **WHAT PRODUCTS ARE COVERED BY THIS WARRANTY:** Any Campbell Hausfeld nailer, stapler, air tool, spray gun, inflator or air accessory supplied or manufactured by Warrantor.
5. **WHAT IS COVERED UNDER THIS WARRANTY:** Substantial defects in material and workmanship which occur within the duration of the warranty period.
6. **WHAT IS NOT COVERED UNDER THIS WARRANTY:**
 - A. Implied warranties, including those of merchantability and FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED FROM THE DATE OF ORIGINAL PURCHASE AS STATED IN THE DURATION. If this product is used for commercial, industrial or rental purposes, the warranty will apply for ninety (90) days from the date of purchase. Some States do not allow limitation on how long an implied warranty lasts, so the above limitations may not apply to you.
 - B. ANY INCIDENTAL, INDIRECT, OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM ANY DEFECT, FAILURE, OR MALFUNCTION OF THE CAMPBELL HAUSFELD PRODUCT. Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.
 - C. Any failure that results from an accident, purchaser's abuse, neglect or failure to operate products in accordance with instructions provided in the owner's manual(s) supplied with product. Accident, purchaser's abuse, neglect or failure to operate products in accordance with instructions shall also include the removal or alteration of any safety devices. If such safety devices are removed or altered, this warranty is void.
 - D. Normal adjustments which are explained in the owner's manual(s) provided with the product.
 - E. Items or service that are normally required to maintain the product, i.e. o-rings, springs, bumpers, debris shields, driver blades, fuses, batteries, gaskets, packings or seals, fluid nozzles, needles, sandblast nozzles, lubricants, material hoses, filter elements, motor vanes, abrasives, blades, cut-off wheels, chisels, chisel retainers, cutters, collets, chucks, rivet jaws, screw driver bits, sanding pads, back-up pads or any other expendable part not specifically listed. These items will only be covered for ninety (90) days from date of original purchase. Underlined items have warranty for defects in material and workmanship only.
7. **RESPONSIBILITIES OF WARRANTOR UNDER THIS WARRANTY:** Repair or replace, at Warrantor's option, products or components which are defective, have malfunctioned and/or failed to conform within duration of the warranty period.
8. **RESPONSIBILITIES OF PURCHASER UNDER THIS WARRANTY:**
 - A. Provide dated proof of purchase and maintenance records.
 - B. Deliver or ship the Campbell Hausfeld product or component to the nearest Campbell Hausfeld Authorized Service Center. Freight costs, if any, must be borne by the purchaser.
 - C. Use reasonable care in the operation and maintenance of the products as described in the owner's manual(s).
9. **WHEN WARRANTOR WILL PERFORM REPAIR OR REPLACEMENT UNDER THIS WARRANTY:** Repair or replacement will be scheduled and serviced according to the normal work flow at the servicing location, and depending on the availability of replacement parts.

This Limited Warranty applies in the U.S. and Canada only and gives you specific legal rights. You may also have other rights which vary from state to state or country to country.