

## Safety – Operation – Maintenance

Keep this document in a safe place

Read and understand this manual before operating your air tool



# Universal Cutoff Saw Shroud

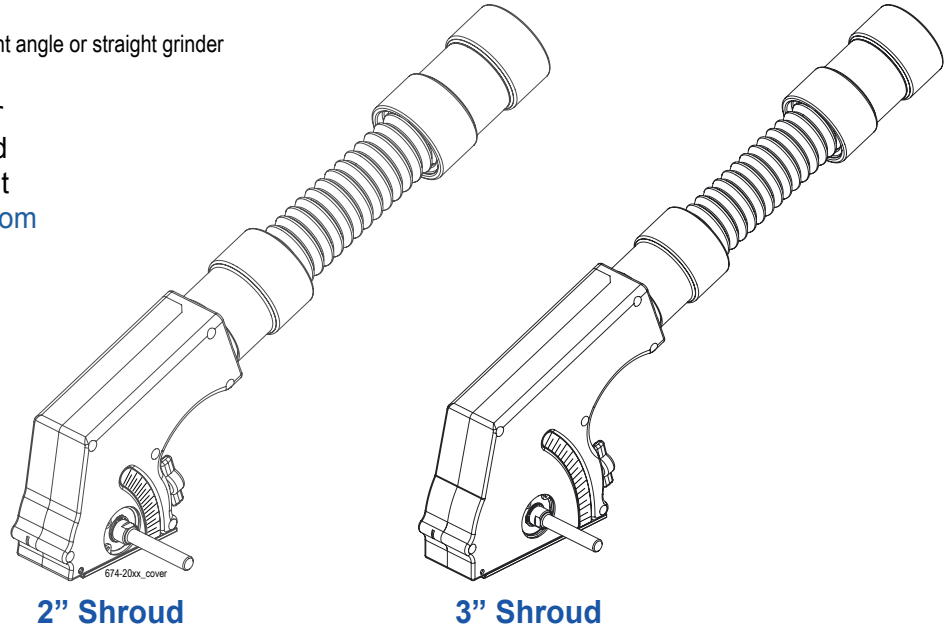


Models: 674-A2032, 674-A2048

- Designed for use with abrasive discs on a right angle or straight grinder
- Accepts discs with 1/4-inch arbor hole



Scan this QR code for online instructions and documentation, or visit [www.ClaytonHowTo.com](http://www.ClaytonHowTo.com)



## ⚠ WARNING

Follow all safety rules for the protection of operating personnel as well as adjacent areas. Always inspect and maintain this tool before use. Clayton Dust Collection Shrouds are designed for use with a variety of air tools. Please refer to the Air Tool Manufacturer's Documentation for Safety, Operations, and Maintenance of all air tools used in conjunction with Clayton Dust Collection Shrouds.

### SAFETY LEGEND



#### ⚠ WARNING

Read and understand operator's manual before using this equipment.



#### ⚠ WARNING

Eye protection is required when operating this equipment.



#### ⚠ WARNING

Hearing protection is recommended when operating this equipment.



#### ⚠ WARNING

Respiratory protection is recommended operating this equipment.

## ⚠ WARNING

Some dust created by sanding, grinding, drilling, and other construction activities contain chemicals known 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
- Chromium and other heavy metals from paint and primers

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 dust masks that are specially designed to filter out microscopic particles.

Clayton Dust Collection Shrouds aid in the collection of airborne dust and debris, but the level of collection is dependent upon the performance of the vacuum to which it is connected, the speed of the air tool used, and the way in which a tool is handled by the user.

Do not assume that the Dust Collection Shroud is collecting 100% of the dust.

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# SAFETY INSTRUCTIONS

**Please refer to the Air Tool Manufacturer's Documentation for Safety, Operations, and Maintenance of all air tools used in conjunction with Clayton Dust Collection Shrouds.**

**Carefully read all instructions before operating any Clayton Dust Collection Shroud.**

**Products offered by Clayton should not be modified, converted or otherwise altered from the original design without express written consent from Clayton Associates, Inc.**

## TOOL INTENT

Clayton Dust Collection Shrouds are designed for use with a variety of air tools and provide dust collection during operations such as grinding, deburring, blending, and polishing on materials such as metal, plastic, fiberglass, composites, rubber, glass, and stone. Please refer to the air tool manufacturer's documentation for Tool Intent for all air tools used in conjunction with Clayton Dust Collection Shrouds.

**Do not use this tool for anything other than its intended applications.**

**This tool is not intended for use in potentially explosive atmospheres and is not insulated against contact with electrical power.**

**Clayton Dust Collection Shrouds are not designed to replace manufacturer installed safety guards and shields.**

**Never remove the factory installed safety devices from air tools used in conjunction with Clayton Dust Collection Shrouds.**

## COLLECTION EFFICIENCY

Clayton Dust Collection Shrouds are very effective in limiting worker exposure to airborne dust and debris. The level of collection is dependent upon the performance of the vacuum to which it is connected, the speed of the air tool used and the way in which a tool is handled by the user.

Do not assume that the Dust Collection Shroud is collecting 100% of the dust.

## TRAINING

It is the tool owner's responsibility to train all operators in the safe use of this tool and its accessories.

## ACCESSORIES

- Do not use abrasives, pad holders, or other accessories that exceed the speed rating of this Dust Collection Shroud.
- Do not use an air tool that exceeds the speed rating of this Dust Collection Shroud.
- Do not use abrasives or pad holders that exceed the size rating of this Dust Collection Shroud.
- Never replace the mandrels on Clayton Dust Collection Shrouds with other commercially available mandrels. Mandrels included with the shrouds have been engineered and balanced specifically for this application.
- Before mounting accessories, visually inspect for defects. Do not use defective accessories.
- Follow tool specifications before choosing size and type of accessory.

## WARNINGS

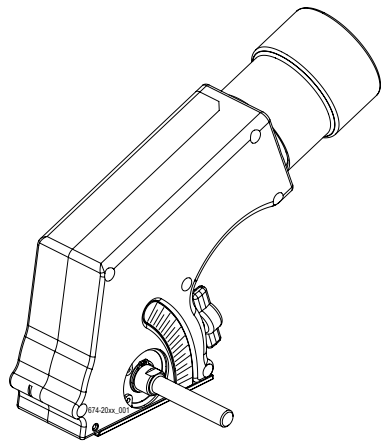
Always wear eye protection. Operator of tool is responsible for following: eye, face, respiratory, hearing, and body protection.

## CAUTIONS

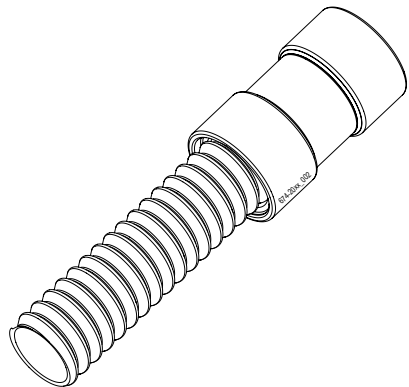
- Hand, wrist, and arm injury may result from repetitive work, motion and overexposure to vibration.
  - Keep hand and clothing away from working end of the tool.
  - Verify that any loose clothing, hair, and all jewelry are properly restrained.
- Never exceed the maximum shroud, abrasive, or pad-holder RPM rating.
  - Disconnect air hose from tool when changing abrasives, removing the shroud, or otherwise handling the working end of the tool.
- **DO NOT USE** if tool vibration is excessive. Correct the cause and retest to ensure safe operation.
  - Verify that work area is uncluttered, and others are at a safe range from the tools and debris.
  - Use a vise or clamping device to hold work piece firmly in place.
  - Do not apply excessive force to the tool or apply "rough" treatment to it.
  - Potentially explosive atmospheres can be caused by dust and fumes resulting from sanding or grinding. Always use dust extraction or suppression systems which are suitable for the material being processed.
  - Use only the proper size and style abrasive for the shroud, pad holder, and mandrel.
  - Oversized or improper abrasives may contact the shroud and cause premature wear or failure.

# WHAT'S IN THE BOX

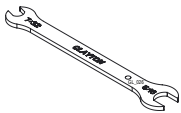
This Clayton Universal Cutoff Saw Shroud was shipped with the items shown.



Shroud



Hose Assembly



Mandrel Wrench

# SPECIFICATIONS & REQUIREMENTS

**PHYSICAL:**

**2" Shroud (674-A2032)**

Weight ..... 0.9lbs (0.41 kg)  
Dimensions (L x W x H)..... 6 x 1.25 x 4.5 in (15.24 x 3.18 x 11.43 cm)

**3" Shroud (674-A2048)**

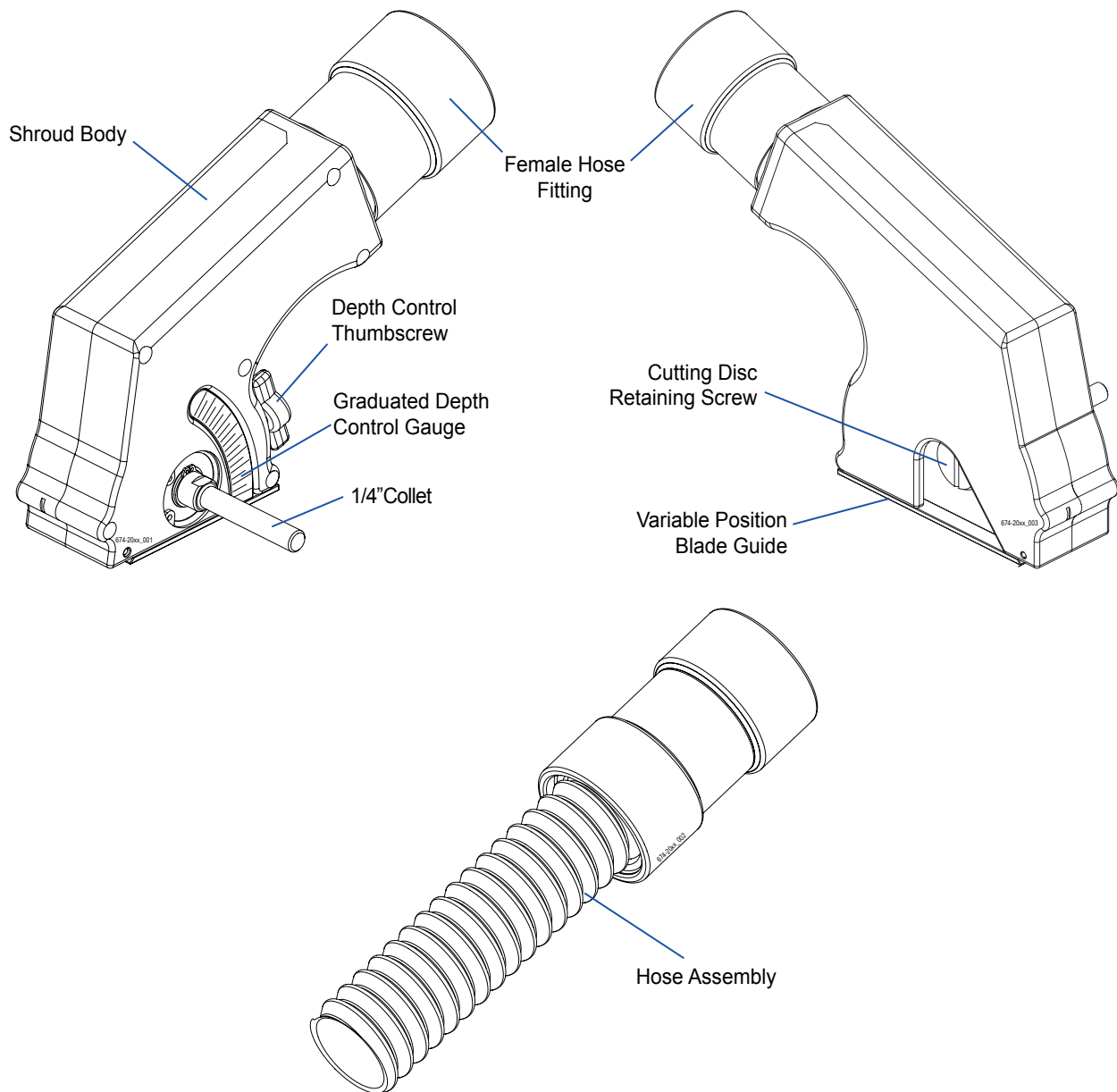
Weight ..... 1.31 lbs (0.59 kg)  
Dimensions (L x W x H)..... 6.5 x 1.25 x 5 in (16.51 x 3.18 x 12.7 cm)

**PERFORMANCE:**

Capture Rate.....98%

## GETTING STARTED

1. Using a knife, carefully cut the yellow Clayton label and remove the shroud and associated items from the shipping box.
2. Visually inspect all items to verify that no parts are missing or damaged.
3. Familiarize yourself with the shroud.

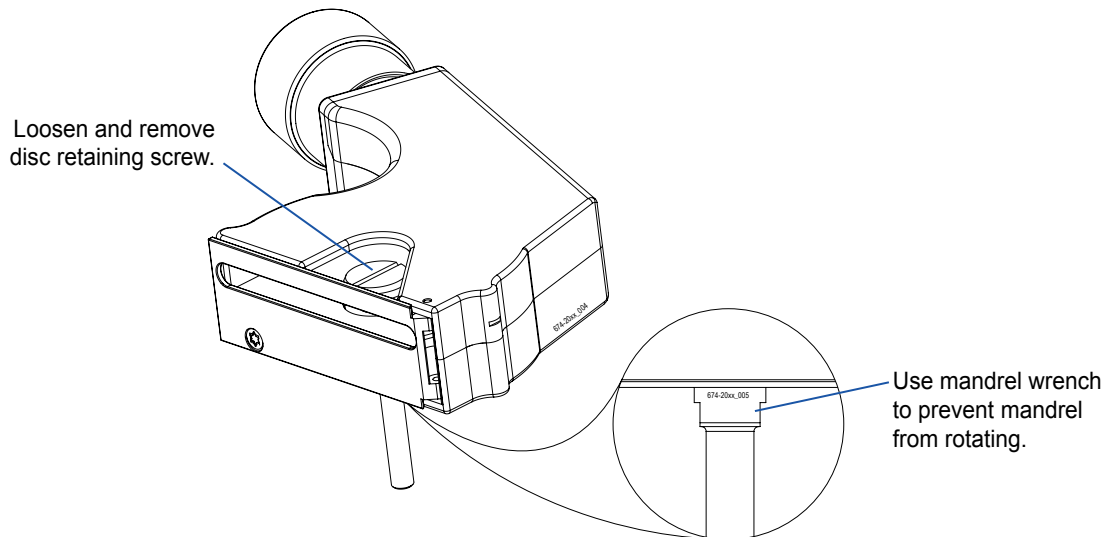


#### 4. Attach the Hose Assembly.

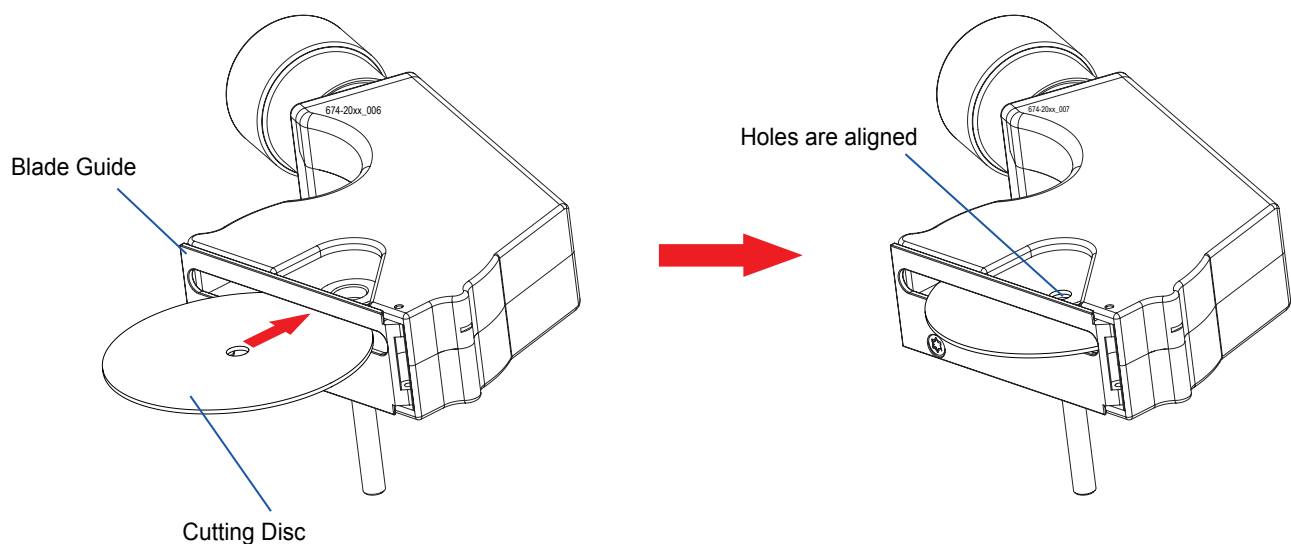
- The vacuum hose included with the shroud may be shortened as required.
  - Cut the hose to the desired length using a knife or hose cutting tools.  
**Follow all safety instructions provided with cutting tools to prevent injury.**
- Thread the hose into the hose fitting until it stops.  
The hose fitting on the shroud is a Female Hose Fitting (FHF). The hose assembly must be *reverse-threaded* into the hose fitting.

## REMOVE/INSTALL A CUTTING DISC

1. **Disconnect the tool from power.**
2. **Return the blade guide to the storage position.**
  - Loosen the depth control thumbscrew until the blade guide swivels freely.
  - Swivel the blade guide so that it rests flat against the body of the shroud.
  - Tighten the thumbscrew to secure the blade guide.
3. **Remove the cutting disc retaining screw.**
  - Use the mandrel wrench to hold the mandrel in place to prevent it from rotating.
  - While holding the mandrel in place, use a large blade screwdriver to loosen and remove the cutting disc retaining screw from the mandrel. Set the retaining screw aside.



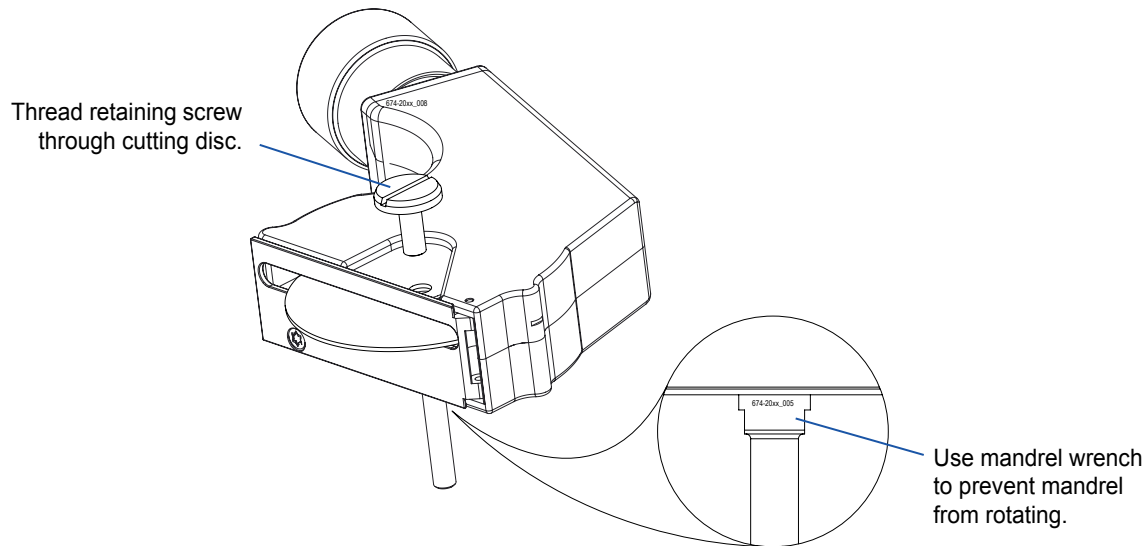
4. **Remove and dispose the spent cutting disc according to company policy.**
5. **Insert a new cutting disc.**
  - Slide the cutting disc through the slot in the blade guide until its center hole is aligned with the threaded hole in the mandrel.



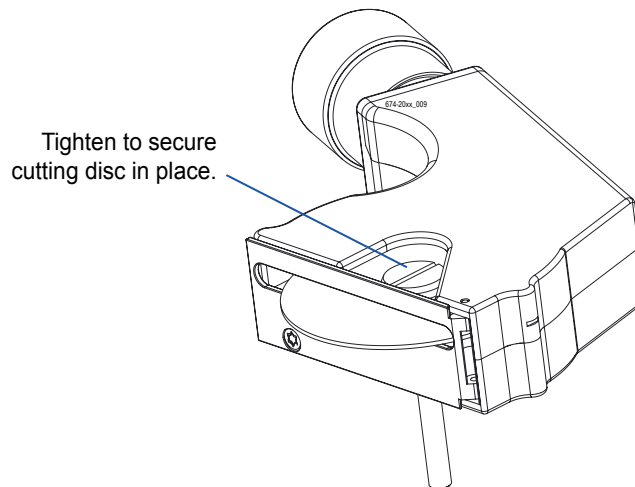
## REMOVE/INSTALL A CUTTING DISC

### 6. Secure the cutting disc to shroud.

- Use the mandrel wrench to hold the mandrel in place to prevent it from rotating.
- While holding the mandrel in place, slide the retaining screw through cutting disc and thread it into the mandrel until it is hand tight.



- Use a large blade screwdriver to tighten the retaining screw to secure the cutting disc to the shroud.

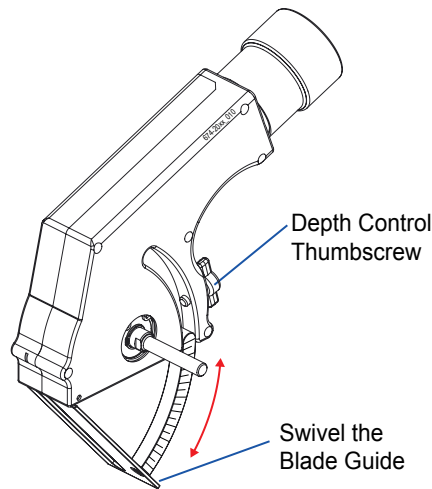


## SHROUD/TOOL OPERATION

### 1. On the shroud, adjust the variable position blade guide to the required cutting depth.


- Loosen the depth control thumbscrew to allow the blade guide to swivel.

Swiveling the blade guide affects how much of the cutting disc protrudes through the blade guide opening, thus adjusting the cutting depth.



- Once the desired cutting depth is set, tighten the depth control thumbscrew to lock the blade guide in place.

### 2. Attach the shroud to any tool equipped with a 1/4" collet.

 **NOTE:** The shroud mandrel is an integral part of the shroud and should never be removed. The mandrel and shroud attach to tools as a single unit.

- Verify the tool being attached to the shroud is not connected to any external power source.
- Loosen the tool's collet in accordance with the manufacturer's instructions.
- Insert the shroud's mandrel into the tool's collet.  
There must be a 1 mm to 2 mm gap between the end of the collet and the shroud body.
- Tighten the collet around the mandrel in accordance with the manufacturer's instructions.  
The shroud should rotate freely around the mandrel when properly attached.

### 3. Attach the vacuum hose to an appropriate vacuum in accordance with the manufacturer's instructions.

### 4. Plug the tool into an appropriate external power source.

### 5. Activate the vacuum.

### 6. Activate the tool.

- Firmly grasp the shroud's vacuum hose when activating the tool to prevent the shroud's rotating.
- If excessive vibration occurs, stop using the tool immediately. Identify the source/cause of the vibration and correct the issue.



## MAINTENANCE

Preventative Maintenance is recommended when portable power tools are used.

- Use only genuine Clayton replacement parts to ensure quality.
- Clean the tool with a damp cloth. Do not use petroleum based cleaners.
- Visually inspect shafts, bearings, pad holders, and abrasives for frays, visible damage, and signs of deterioration. Replace damaged or worn components before use.

## HANDLING AND STORAGE

- Use of tool rests, hangers, and/or balancers is recommended.
- Protect the cutting disc from exposure to water, solvents, high humidity, freezing temperature, and extreme temperature changes.
- Store Dust Collection Shrouds in protective racks or compartments to prevent damage.

## TROUBLESHOOTING

### **Excessive vibration is felt during tool use.**

- Shroud mandrel may be damaged or bent.
  - Stop using the tool immediately.
  - Identify the cause and correct the issue.
- Cutting disc may be worn or damaged.
  - Replace the cutting disc.

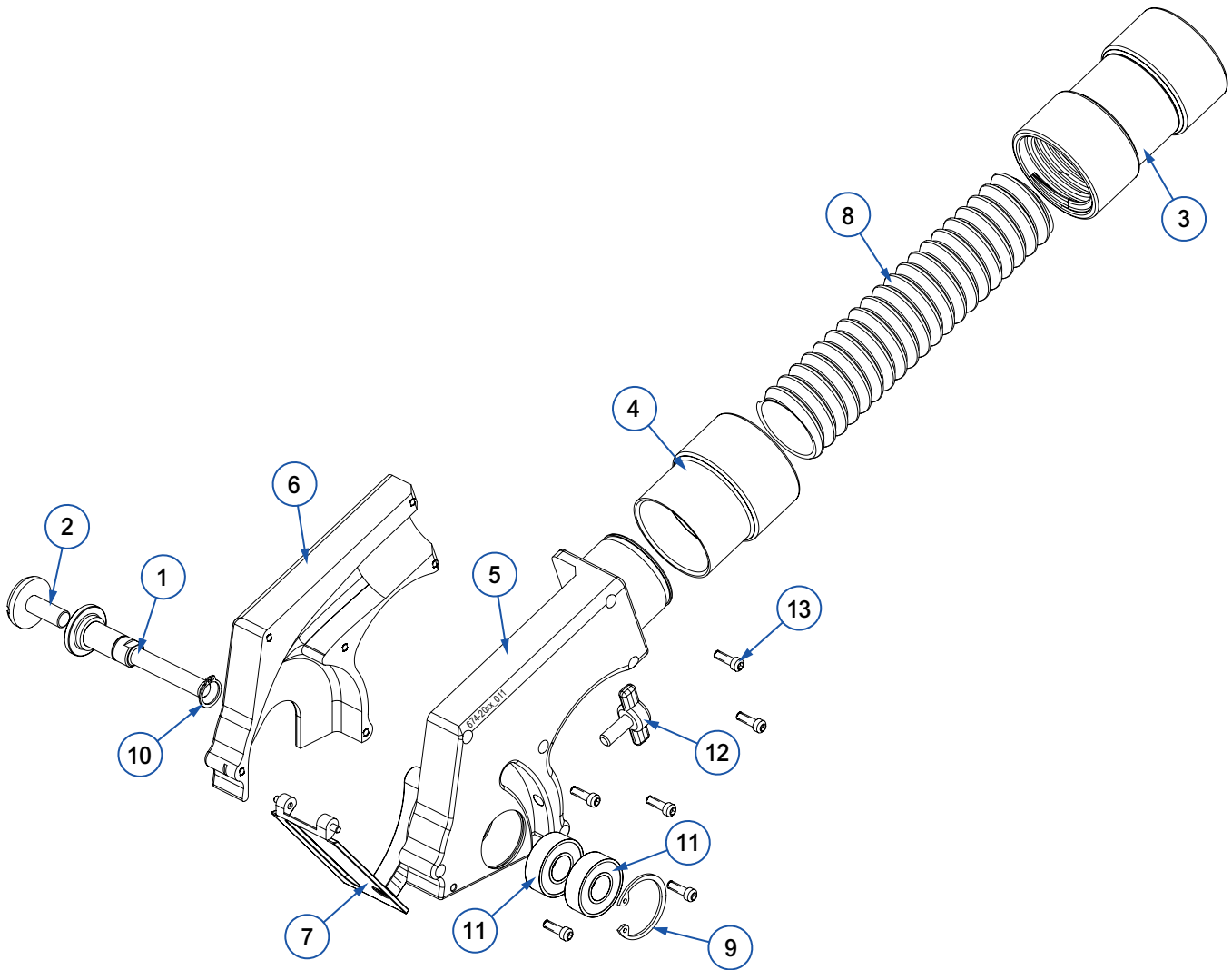
### **Excessive dust is evident during operation.**

- Clayton Dust Collection Shrouds reduce airborne (i.e., respirable,) dust. However, some larger debris may not be collected and will require vacuuming at the end of grinding operations. This is normal.
- Vacuum may be turned off, or vacuum filters may be clogged.
  - Examine the vacuum to ensure that it is operating properly, and that filters are clean.
- Hose or shroud may be blocked.
  - Disconnect all hose fittings.
  - Verify the pathway between the shroud and vacuum port is clear.
- Abrasive grit may be too coarse.
  - On softer materials, coarse abrasives may generate overwhelming amounts of dust. Switch to a finer grit abrasive, and/or use a slower speed tool.

## ILLUSTRATED PARTS BREAKDOWN

674-A2032: 2-inch (50 mm) Shroud

Seq	Item No	Description
1	672-007	Cutoff Shroud Mandrel, .250 in
2	672-007B	Cutoff Shroud Mandrel Screw, 1/4 in
3	673-M16C16	Swivel Coupler, 1 in To 1 in Hose
4	673-M16F	Swivel Connector, 1 in, Female
5	674-2032-A	2 in Cutoff Saw Mech Side
6	674-2032-B	2 in Cutoff Saw Cover Side
7	674-2032-C	2 in Cutoff Saw Adjustable Foot
8	921-1000WBKSC	Vacuum Hose 1 in Conductive Wire Support Per Foot
9	929-RR-.875IN	Retaining Ring 7/8 Internal
10	929-RR.325EX	Retaining Ring, 3/8 External
11	931-R62RSA3	Bearing 3/8 ID X 7/8 OD Sealed 32K
12	941-TS1032-08	Thumbscrew, 10-32 X 1/2, T-Handle
13	SE044006-AKSM-Z	Screw Socket Head 4-40 X 3/8 SS



### Repair or Warranty Contact

674-20xx  
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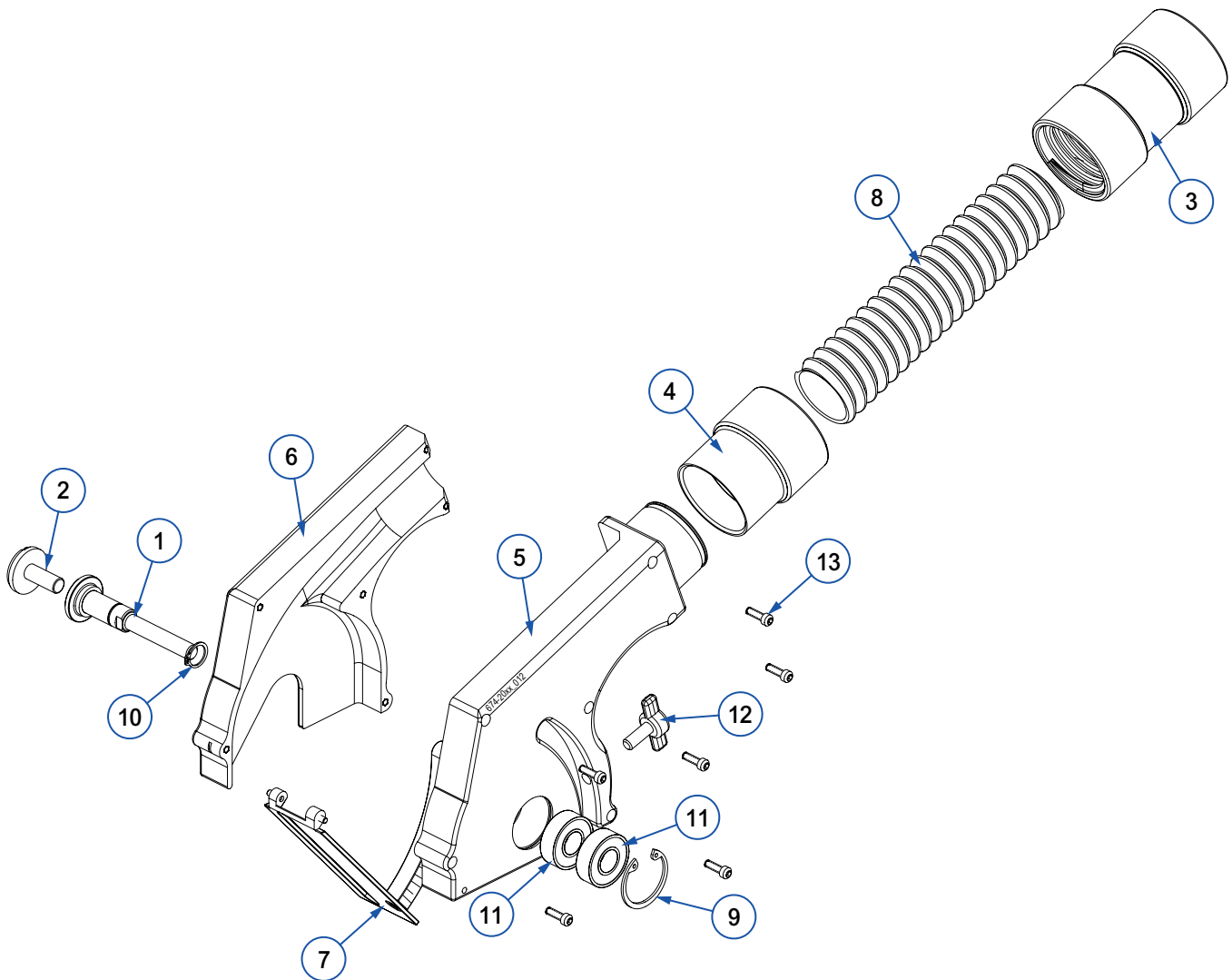
Clayton Associates, Inc. • 1650 Oak Street • Lakewood, New Jersey 08701 • P.+1-732-363-2100 F.+1-732-364-6084

[www.DustlessMadeSimple.com](http://www.DustlessMadeSimple.com) • [Sales@JClayton.com](mailto:Sales@JClayton.com)

## ILLUSTRATED PARTS BREAKDOWN

674-A2048: 3-inch (75 mm) Shroud

Seq	Item No	Description
1	672-007	Cutoff Shroud Mandrel, .250 in
2	672-007B	Cutoff Shroud Mandrel Screw, 1/4 in
3	673-M16C16	Swivel Coupler, 1 in To 1 in Hose
4	673-M16F	Swivel Connector, 1 in, Female
5	674-2048-A	3 in Cutoff Wheel Shroud Mech Side
6	674-2048-B	3 in Cutoff Wheel Shroud Cover Side
7	674-2048-C	3 in Cutoff Wheel Shroud Adjustable Foot
8	921-1000WBKSC	Vacuum Hose 1 in Conductive Wire Support Per Foot
9	929-RR-.875IN	Retaining Ring 7/8 Internal
10	929-RR.325EX	Retaining Ring, 3/8 External
11	931-R62RSA3	Bearing 3/8 ID X 7/8 OD Sealed 32K
12	941-TS1032-08	Thumbscrew, 10-32 X 1/2, T-Handle
13	SE044006-AKSM-Z	Screw Socket Head 4-40 X 3/8 SS



## LIMITED LIFETIME WARRANTY TERMS AND CONDITIONS

### Warranty Terms

Clayton Associates, Inc. guarantees its manufactured products against defects in materials or workmanship and will either repair or replace all parts that prove defective under normal use during the lifetime of the products. The warranty period shall commence from the date of paid invoice.

This warranty does not cover (a) repairs due to normal wear, accident, neglect, misuse, or use other than as indicated in the instruction booklet (b) products manufactured by third parties and distributed by Clayton (c) wear items such as bearings, rotor blades, regulators, valve stems, levers, shrouds, guards, O-rings, seals, gaskets, motor brushes, and other wearable parts.

### Repair within the Continental US

During the first 90 days of the warranty period, Clayton will provide parts and labor to the customer's site at no charge or pay freight costs associated with returning the products for repair to a Clayton selected service location and repair the product at no charge. Clayton personnel will determine the best way to repair the product.

Past 90 days, Clayton will provide parts to the customer's site at no charge or the customer may ship the product to a Clayton selected service location at customer's expense and Clayton will repair the product at no charge and provide return shipping.

### Repair Outside the Continental US

Clayton will provide parts to the customer's site at no charge or the customer may ship the product to a Clayton selected service location at customer's expense and Clayton will repair the product at no charge and provide return shipping.

### Limitation of Liability

Clayton shall not in any event be liable for any damages, loss of production time or profits, whether based on contract, warranty, negligence, strict liability or otherwise, including without limitation any consequential, incidental or special damages, arising with respect to the equipment or its failure to operate.

Clayton Associates, Inc. makes no other warranty or representation of any kind, except that of title, and all other warranties, express or implied, including warranties of merchantability or fitness for any particular purpose, are hereby expressly disclaimed.

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