

General Safety Information & Replacement Parts





UT8768-3V-85-7

UT8768-4V-85-7

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 **WARNING:** Risk of injury to persons. Read and understand operation instructions. Always become familiar with all the instructions and warnings before operating any pneumatic tool.

 **WARNING**
This tool is not suitable for use with Type 1, Type 41 and Type 42 cut off wheels. Do not fit Type 1 or Type 41 or Type 42 wheels to this tool. Using Type 1, Type 41 and Type 42 wheels with this tool can cause serious injury.

 **WARNING**

Use of threaded hub grinding wheels:


This tool features a 5/8" x 11 TPI unified spindle thread for mounting grinding wheels, along with ANSI standard mounting flanges designed for mounting type 27 grinding wheels. The use of 5/8" x 11 TPI threaded hub grinding wheels as alternatives to type 27 grinding wheels has become more common.

If you intend using threaded hub grinding wheels with this grinder; the following procedures must be followed at all times:

Before conducting any of the procedures below the grinder must be disconnected from the air supply.

- 1) The rear wheel mounting flange must be removed from the grinder before use.
- 2) Once the threaded hub wheel is fitted it must be securely tightened by holding the spindle of the grinder with the wrench provided, while tightening the wheel clockwise with a second wrench placed on the hexagon section at the rear face of the wheel. It is also recommended that for the first operation after fitting the wheel; that the wheel is held firmly on the work surface prior to starting the grinder.
- 3) Only use threaded hub wheels certified by the manufacturer to meet ANSI B7.1 standards.

Failure to follow the procedures above can cause injury or death, as deceleration of the grinder may cause the wheel to fly-off; in addition the wheel will not be properly enclosed within the ANSI standard guard supplied with the grinder.

 **WARNING:** THIS PRODUCT CAN EXPOSE YOU TO CHEMICALS, INCLUDING LEAD, WHICH IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. For more information go to www.P65Warnings.ca.gov

Safety Information



7.2.2.3 GENERAL SAFETY RULES

- Multiple hazards. Read and understand the safety instructions before installing, operating, repairing, maintaining, changing accessories on, or working near the power tool. Failure to do so can result in serious bodily injury.
- Only qualified and trained operators should install, adjust or use the power tool.
- Do not modify this power tool. Modifications may reduce the effectiveness of safety measures and increase the risks to the operator.
- Do not discard the safety instructions – give them to the operator.
- Do not use a tool if the tool has been damaged.
- Warnings shall be given against the risk of explosion or fire due to the material being processed;
- Warnings shall be given against the risk of cutting.



7.2.2.4 PROJECTILE HAZARDS

- Failure of the work piece, of accessories, or even of the tool itself may generate high velocity projectiles.
- Always wear impact-resistant eye protection during operation of the tool. The grade of protection required should be assessed for each use.



7.2.2.5 ENTANGLEMENT HAZARDS

- Entanglement hazard - choking, scalping and/or lacerations can occur if neck ware, hair or gloves are not kept away from tool and accessories.

7.2.2.6 OPERATING HAZARDS

- Use of the tool may expose the operator's hands to hazards including crushing, impacts, cuts and abrasions and heat. Wear suitable gloves to protect hands.
- Operators and maintenance personnel must be physically able to handle the bulk, weight and power of the tool.
- Hold the tool correctly: be ready to counteract normal or sudden movements – have both hands available.
- Maintain a balanced body position and secure footing.
- Keep hands away from rotating or reciprocation accessories, spindles or other moving parts.
- Release the start and stop device in the case of an interruption of the energy supply
- Use only lubricants recommended by the manufacturer.



7.2.2.7 REPETITIVE MOTIONS HAZARDS

- When using a power tool, you may experience discomfort in your hands, arms, shoulders, neck, or other parts of your body.
- While using a power tool, position your body in a comfortable posture. Maintain secure footing and avoid awkward or off-balanced postures. Changing your posture during extended tasks may help avoid discomfort and fatigue.
- If you experience symptoms such as persistent or recurring discomfort, pain, throbbing, aching, tingling, numbness, burning sensation, or stiffness, do not ignore these warning signs. Promptly tell your employer and consult a qualified health professional.

7.2.2.8 ACCESSORY HAZARDS

- Only use sizes and types of accessories and consumables that are recommended by the power tool manufacturer.



7.2.2.9 WORKPLACE HAZARDS

- Slips, trips and falls are major causes of workplace injury. Be aware of slippery surfaces caused by use of the tool and also of trip hazards caused by the air line or hydraulic hose.
- Proceed with care in unfamiliar surroundings. Hidden hazards may exist, such as electricity or other utility lines.
- This power tool is not intended for use in potentially explosive atmospheres and is not insulated from coming into contact with electric power.
- Make sure there are no electrical cables, gas pipes etc. that could cause a hazard if damaged by use of the tool.



7.2.2.10 DUST AND FUME HAZARDS

- Dust from some work processes can cause cancer, birth defects or other respiratory diseases. Risk assessment of these hazards and implementation of appropriate controls is essential.

- If the pneumatic tool is used in a dust filled environment exhaust air can cause a dust hazard
- Dusts and fumes generated when using power tools can cause ill health (for example: cancer, birth defects, asthma and/or dermatitis); risk assessment of these hazards and implementation of appropriate controls of is essential.
- Risk assessment should include dust created by the use of the tool and the potential for disturbing existing dust.
- Operate and maintain the power tool as recommended in these instructions, to minimize dust or fume emissions
- Direct the exhaust so as to minimized disturbance of dust in a dust filled environment
- Where dusts or fumes are created, the priority shall be to control them at the point of emission.
- All integral features or accessories for the collection, extraction or suppression of airborne dust or fumes should be correctly used and maintained in accordance with the manufacturer's instructions.
- Select, maintain and replace the consumable/inserted tool as recommended in these instructions, to prevent an unnecessary increase in dust or fumes
- Use respiratory protection as instructed by your employer or as required by occupational health and safety regulations;



7.2.2.11 NOISE HAZARDS

- Unprotected exposure to high noise levels can cause permanent, disabling, hearing loss and other problems such as tinnitus (ringing, buzzing, whistling or humming in the ears);
- Risk assessment of these hazards and implementation of appropriate controls of is essential.
- Appropriate controls to reduce the risk may include actions such as damping materials to prevent work pieces from 'ringing'
- Use hearing protection as instructed by your employer or as required by occupational health and safety regulations;
- Operate and maintain the power tool as recommended in these instructions, to prevent an unnecessary increase in noise levels;
- Select, maintain and replace the consumable/inserted tool as recommended in these instructions, to prevent an unnecessary increase in noise.



7.2.2.12 VIBRATION HAZARDS

- Exposure to vibration can cause disabling damage to the nerves and blood supply of the hands and arms;
- Wear warm clothing when working in cold conditions and keep your hands warm and dry;
- If you experience numbness, tingling, pain or whitening of the skin in your fingers or hands, stop using the power tool, and tell your employer. You should also seek medical advice from a qualified occupational health professional.
- Operate and maintain the power tool as recommended in these instructions, to prevent an unnecessary increase in vibration;
- Select, maintain and replace the consumable/inserted tool as recommended in these instructions, to prevent an unnecessary increase in vibration levels;
- Support the weight of the tool in a stand, tensioner or balancer, because the operator can then use a lighter grip to support the tool.
- Hold the tool with a light but safe grip taking account of the required hand reaction forces, because the risk from vibration is generally greater when the grip force is higher.

7.2.3 ADDITIONAL SAFETY INSTRUCTIONS FOR PNEUMATIC POWER TOOLS - AIR SUPPLY & CONNECTION HAZARDS

- Air under pressure can cause severe injury.
- Always shut off air supply, drain hose of air pressure and disconnect tool from air supply when not in use, before changing accessories or when making repairs.
- Never direct air at yourself or anyone else.
- Whipping hoses can cause severe injury. Always check for damaged or loose hoses and fittings.
- Whenever universal twist couplings (claw couplings) are used, lock pins must be installed.
- Do not exceed the maximum air pressure stated on the tool.
- Use whip check safety cables to safeguard against possible hose to tool and hose to hose connection failure.
- Never carry an air tool by the hose.

Safety Information (continued)

AIR COMPRESSOR AND AIR TOOL SAFETY

1. Risk of Bursting. Do not adjust the regulator to result in output pressure greater than the marked maximum pressure of this air tool.
2. Ensure the hose is free of obstructions or snags. Entangled or snarled hoses can cause loss of balance or footing and may become damaged.
3. Never leave a tool unattended with the air hose attached.
4. Do not operate this tool if it does not contain a legible warning label.
5. Do not continue to use a tool or hose that leaks air or does not function properly.
6. Never direct a jet of compressed air toward people or animals.
7. Protect your lungs. Wear a face or dust mask if the operation is dusty.

WARNING: Some dust created by power sanding, sawing, grinding, drilling and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:



Lead from lead based paint, crystalline silica from bricks and cement and other masonry products, arsenic and chromium from chemically-treated lumber.

Your risk from those 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 specifically designed to filter out microscopic particles.

Important Warnings - Grinders & Cut-Off Tools



1. The stopping time, if longer than 5 seconds, shall be stated, and it shall be recommended to put the grinder in a stable position.
2. When cutting-off, the workpiece shall be so supported that the slot is kept at constant or increasing width during the whole operation.
3. If the abrasive product gets jammed in a cut slot, shut off the grinder and ease the wheel free. Check that the wheel is still correctly secured and not damaged before continuing the operation.
4. Grinding wheels and cut-off wheels shall not be used for side grinding. (Exception: grinding wheels designed for side grinding.) Grinders should not be used over the maximum rated speed of an abrasive product.
5. The operator shall pay attention that no bystanders are in the vicinity.
6. The personal protective equipment such as gloves, apron and helmet shall be used.
7. Never operate the grinder without the original guard supplied by the grinder manufacturer correctly fitted to the grinder.
8. Only use the wheel mounting flanges supplied by the grinder manufacturer.
9. Only use grinding wheels and cut-of wheels and wire brushes that meet ANSI standards, ISO standards or both-this will be shown on the wheel manufacturers label.
10. Only use grinding wheels and cut-off wheels and wire brushes that have the correct center mounting hole or correct threaded insert center to match the spindle thread on the grinder.
11. Never adjust the grinder, adjust the guard or change the wheel unless the air supply and air hose is disconnected from the grinder.
12. Only personnel trained in the correct methods to adjust guards and change grinding wheels or cut-off wheels or wire brushes should conduct these operations.
13. Always ensure that you are aware of the direction of the sparks being created by the grinding operation and ensure that the sparks are not directed to the operator or other persons in the area.
14. Never use a grinder close to any explosive or flammable materials or air conditions.
15. Only use the type of wheel that the grinder manufacturer specifies that the grinder is designed for use with.
16. Never attempt to modify or adapt a grinder or cut-off tool to accept a grinding wheel or cut-off wheel or wire brush that the grinder was not designed for use with.
17. Eye protection, hearing protection, safety gloves and safety aprons must always we worn when operating a grinder

Specifications

Model	Motor (HP)	Motor (kW)	Max. Wheel Dia. (in.)	Speed (RPM)	Exhaust	Spindle Size	Guard Type	Weight (lb.)	Weight (Kg)	Length (in.)	Length (mm)	Rec. Pressure	Air Inlet (NPT)	Rec. Hose (I.D. in.)	Air Cons (cfm)	Av. Air Cons (cfm)
UT8768-3V-85-7	3.0	2.2	7" Type 27	8,500	Side	5/8"-11	Type 27	10.4	4.7	12.0	305	90 psi-6.2 bar	1/2"	1/2"	12.0	5.2
UT8768-4V-85-7	4.0	2.93	7" Type 27	8,500	Side	5/8"-11	Type 27	12.1	5.5	12.0	305	90 psi-6.2 bar	1/2"	1/2"	16.0	6.4

3V - 3HP Models

Vibration Level (m/sec²): Main Handle: 1.78
Support Handle: 2.6 Noise Level (dBA): 83.5

4V - 4HP Models

Vibration Level (m/sec²): Main Handle: 5.03
Support Handle: 4.9 Noise Level (dBA): 86

Installation

1 Cleaning the air hose

- A 3/8" air hose is required, with a maximum length of 25 ft.
- Clean the air hose of accumulated dust and moisture before connecting it to the air supply.

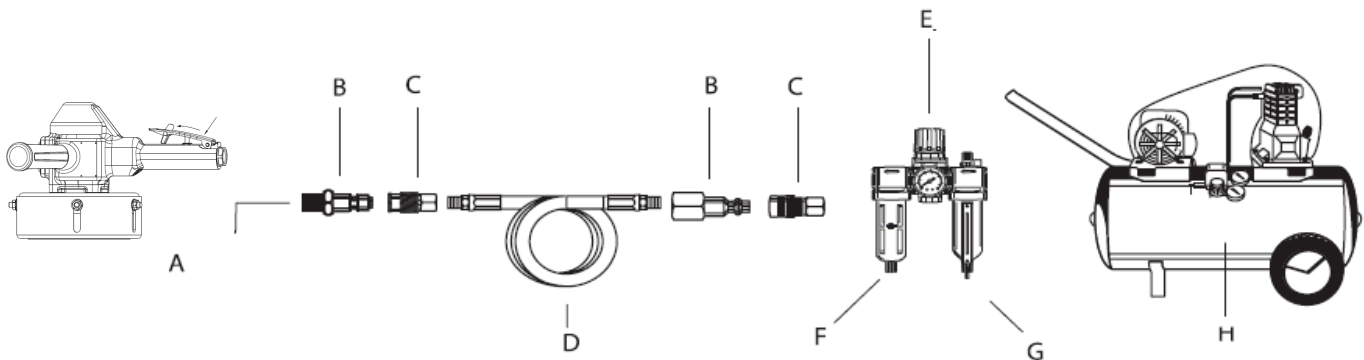


NOTE: If a longer air hose is required, connect a 1/2" air hose to the 3/8" air hose to ensure the vertical grinder has the necessary air supply.



Recommended Air Line Set-Up

Part	Description
A	Air Tool
B	Quick Plug
C	Quick Coupler
D	Air Hose
E	In-line Regulator
F	In-line Lubricator
G	In-line Filter
H	Air Compressor

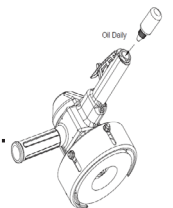


Maintenance

Ensure the air line is shut-off and drained of air before removing this tool for service or changing sockets. This will prevent the tool from operating if the throttle is accidentally engaged.

LUBRICATION

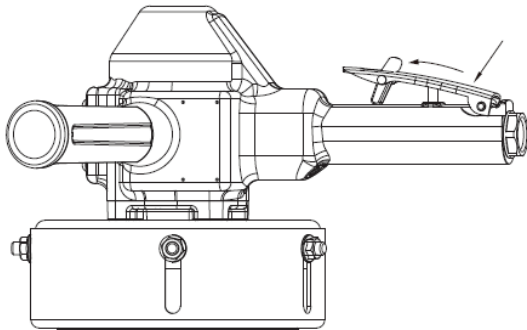
- An in-line filter-regulator-lubricator is recommended as it increases tool life and keeps the tool in sustained operation.
- Regularly check and fill the in-line lubricator with air tool oil. Avoid using excessive amounts of oil.
- Adjust the in-line lubricator by placing a sheet of paper next to the tool's exhaust ports and holding the throttle open approximately 30 seconds. The lubricator is properly set when a light stain of oil collects on the paper.
- If it is necessary to store the tool for an extended period of time (overnight, weekend, etc.), generously lubricate the tool through the air inlet. Run the tool for approximately 30 seconds to ensure the oil is evenly distributed throughout the tool. Store the tool in a clean and dry environment.
- 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.



Operation

1 Operating the vertical grinder

- This Vertical Grinder is designed to operate on 90 PSIG. Lower pressure (below 90 PSIG) will reduce performance of the tool. Higher air pressure (over 90 PSIG) raises the performance of the tool beyond its rated capacity and could cause serious damage to the tool and the user.
- This tool features a safety lock-off mechanism.

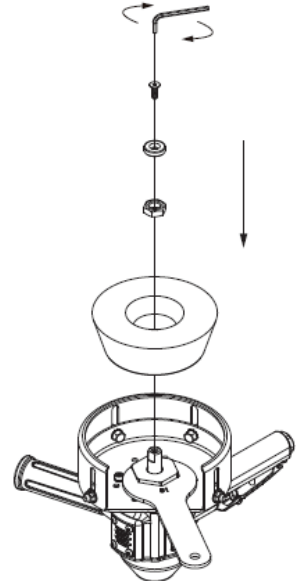


2 Installing the grinding wheel



WARNING: Disconnect the tool from the air supply before servicing or changing accessories.

- Remove the flange nut with the spanner wrench.
- Mount the grinding wheel onto the spindle.
- Replace the flange nut and tighten using the hex key.



3 Grinding and deburring

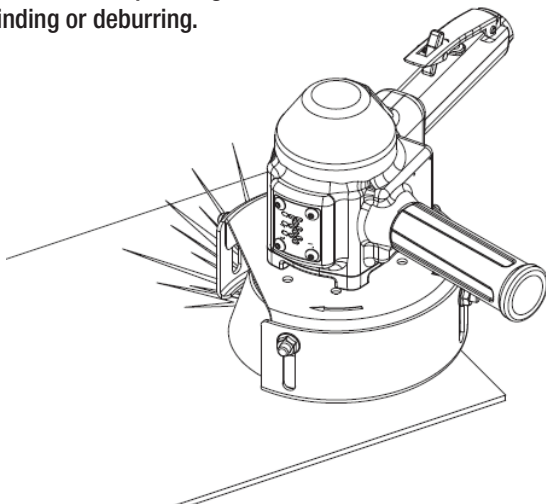


WARNING: You must wear the ANSI approved eye protection during the operation; failure to follow this this may result in serious injury or damage to the operator.



WARNING: Hearing protection is strongly recommended. A protective respirator is recommended.

- Connect the grinder to the air supply.
- This tool features a safety lock-off mechanism.
- Operate the tool by disengaging the safety lock-off mechanism and depressing the throttle lever to run the tool for grinding or deburring.



WARNING: The rear wheel mounting flange must be removed from the grinder before use.



Once the threaded hub wheel is fitted it must be securely tightened by holding the spindle of the grinder with the wrench provided, while tightening the wheel clockwise with a second wrench placed on the hexagon section at the rear face of the wheel. It is also recommended that for the first operation after fitting the wheel that the wheel is held firmly on the work surface prior to starting the grinder.

Troubleshooting

Problem	Possible Cause	Solution
The tool runs slowly or will not operate.	There is grit or gum in the tool.	<input type="checkbox"/> Flush the tool with air tool oil or gum solvent.
	The tool is out of oil.	<input type="checkbox"/> Lubricate the tool according to the lubrication instructions in this manual.
	The air pressure is low.	<input type="checkbox"/> Adjust the regulator on the tool to the maximum setting. <input type="checkbox"/> Adjust the compressor regulator to the tool's maximum setting of 90 psi.
	The air hose leaks.	<input type="checkbox"/> Tighten and seal the hose fittings with pipe thread tape if leaks are found.
	The air pressure drops.	<input type="checkbox"/> Ensure the hose is the proper size. Long hoses or tools using large volumes of air may require a hose with an I.D. of ½" or larger depending on the total length of the hose. <input type="checkbox"/> Do not use a multiple number of hoses connected together with a quick connect fitting. This causes additional pressure drops and reduces the tool power. Directly connect the hoses together.
	There is a worn rotor blade in the motor.	<input type="checkbox"/> Replace the rotor blade.
	There is a worn ball bearing in the motor.	<input type="checkbox"/> Remove and inspect the bearing for rust, dirt, and grit. Replace or clean and grease the bearing with bearing grease.
There is moisture blowing out of the tool's exhaust.	There is water in the tank.	<input type="checkbox"/> Drain the tank. (See the air compressor manual for instructions.) Lubricate the tool and run it until water is not evident. Lubricate the tool again and run for 1-2 seconds.

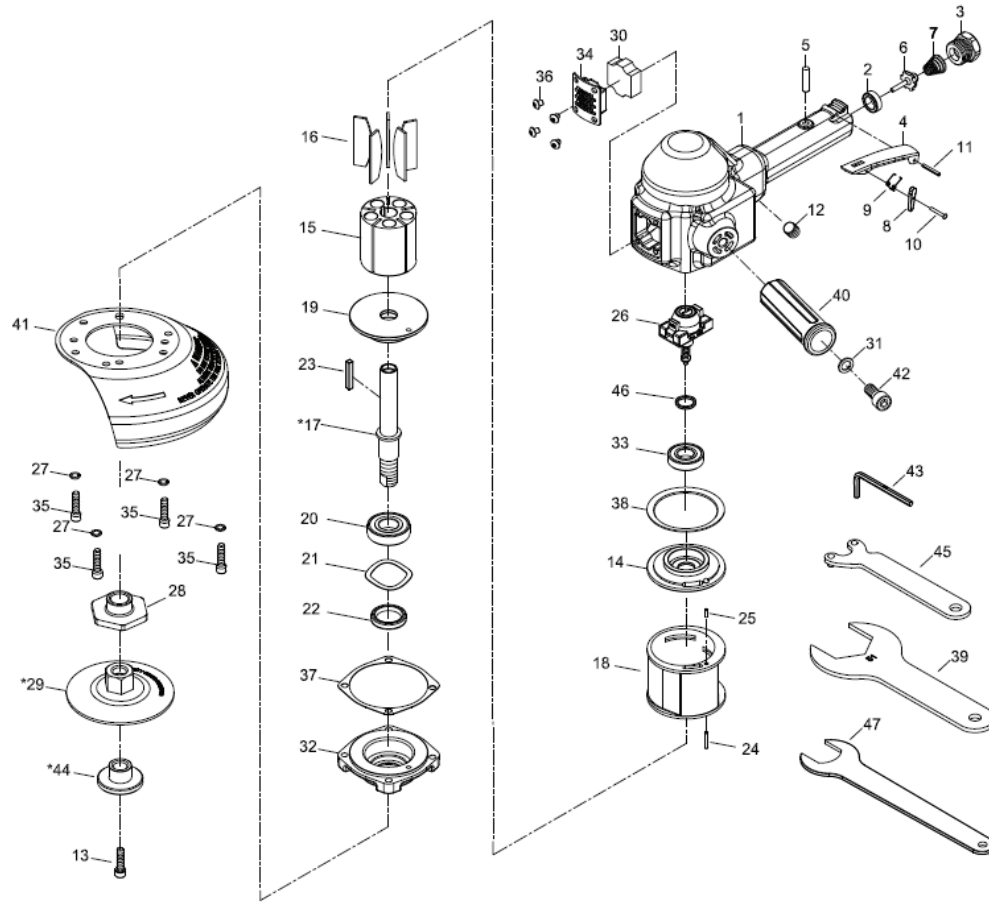
Warranty

Limited Warranty: Universal Tool warrants its tools to be free from defects in material and workmanship for one year from the date of purchase. This warranty does not apply to tools which have been abused, misused, modified or repaired by someone other than Universal Tool or its authorized service centers. If a UT tool proves defective in material or workmanship within one year after purchase, return it to any authorized service center or Universal Tool freight prepaid. Please enclose your name, address and adequate proof of date of purchase and a short description of the defect. Universal Tool will, at its option, repair or replace defective tools free of charge. Repairs or replacements are warranted as described above for the remainder of the original warranty period. Universal Tool's sole liability and your exclusive remedy under this warranty is limited to repair or replacement of the defective tool.

There are no other warranties expressed or implied and Universal Tool shall not be liable for incidental, consequential or special damages, or any other damages, costs or expenses excepting only the cost or expense of repair or replacement as described above.

Service Parts / Exploded View Drawing

UT8768-3V-85-7



Ref #	Part Number	Description	Qty
1	95G-300V01	HOUSING	1
2	95G-300V53	RUBBER SPACER	1
3	95G-300V03	AIR INLET	1
4	95G-300V04	THROTTLE LEVER	1
5	95G-300V05	PIN	1
6	95G-300V54	VALVE STEM	1
7	95G-300V08	SPRING	1
8	95G-300V29	SAFETY BAR	1
9	95G-300V31	SPRING	1
10	95G-300V33	RIVET	1
11	9SP05002400	SPRING PIN	1
12	95G-300V36	SCREW	1
13	95G-300V45	SCREW	1
14	95G-300V14	END PLATE	1
15	95G-300V15	ROTOR	1
16	95G-300V16	VANE	5
17	95G-300V24	SPINDLE	1
18	95G-300V18	CYLINDER	1
19	95G-300V19	FRONT END PLATE	1
20	90R12ZZ	BALL BEARING	1
21	95G-300V09	WAVE WASHER	1
22	95G-300V39	SEAL	1
23	95G-300V23	KEY	1
24	940337	SPRING PIN	1

Ref #	Part Number	Description	Qty.
25	940317-14	SPRING PIN	1
26	967-33811-11S	GOVERNOR ASSEMBLY	1
27	95G-300V27	SPRING WASHER	4
28	95G-300V28	WHEEL FLANGE	1
29	95G-619727	GRINDSTONE BASE	1
30	95G-300V47	MUFFLER	1
31	95G-300V41	WASHER	1
32	95G-300V32	BEARING SUPPORT	1
33	90R10ZZ	BALL BEARING	1
34	95G-300V46	EXHAUST COVER	1
35	95G-300V35	SCREW	4
36	95G-300V48	SCREW	4
37	95G-300V37	GASKET	1
38	95G-300V38	GASKET	1
39	95G-300V30	SPANNER	1
40	95G-300V40	HANDLE	1
41	95G-300V43	7" GUARD	1
42	95G-300V42	SCREW	1
43	910016	HEX. KEY WRENCH	1
44	95G-300V44	DISC NUT	1
45	95G-6141344	PIN WRENCH	1
46	95G-3001V10	NUT	1
47	95G-300V55	SPANNER	1



Universal Tool

Questions, problems, missing parts?

Call Customer Service
8 a.m.-5 p.m., EST, Monday-Friday

1-800-356-3392

FLORIDA-PNEUMATIC.COM

Retain this manual for future use.