

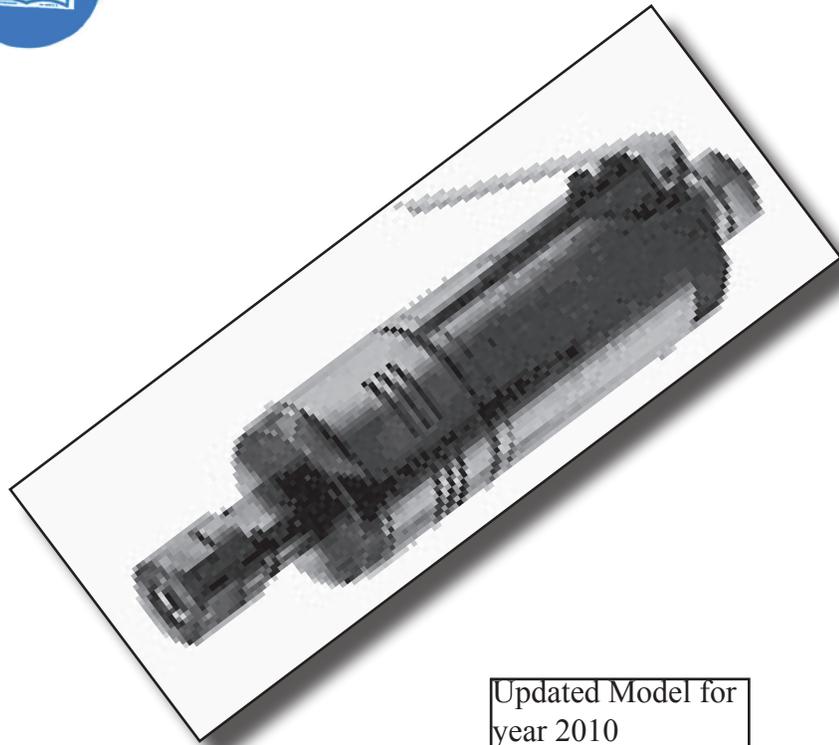
HENRY TOOLS

Industrial Airtools at Work

MODELS
4121AGL
4121AGLS
Series



General Safety and Maintenance Manual



Updated Model for year 2010



Model Number	Exhaust Direction	Throttle Type	Speed	Power Output	Case Material	Weight		Length	Diameter	Air Consumption	Collet Size
						Aluminum	Steel				
4121AGL	SIDE	(L) Lever or (K) Safety Lever	15000 to 22000 R.P.M. (22000RPM is Standard)	0.9 H.P. 675 W	Alum	1.5 lb/0.7 Kg	2.0 lb/0.9 Kg	6.4 inch/ 162 mm	1.6 inches 41 mm	25cfm 11.8 L/S	1/4", 1/4" 3/16", 3/8, 6mm, or 8mm
4121AGLS					Steel	Steel					

THE HENRY TOOL CO., MANUFACTURED BY HENRY TOOLS

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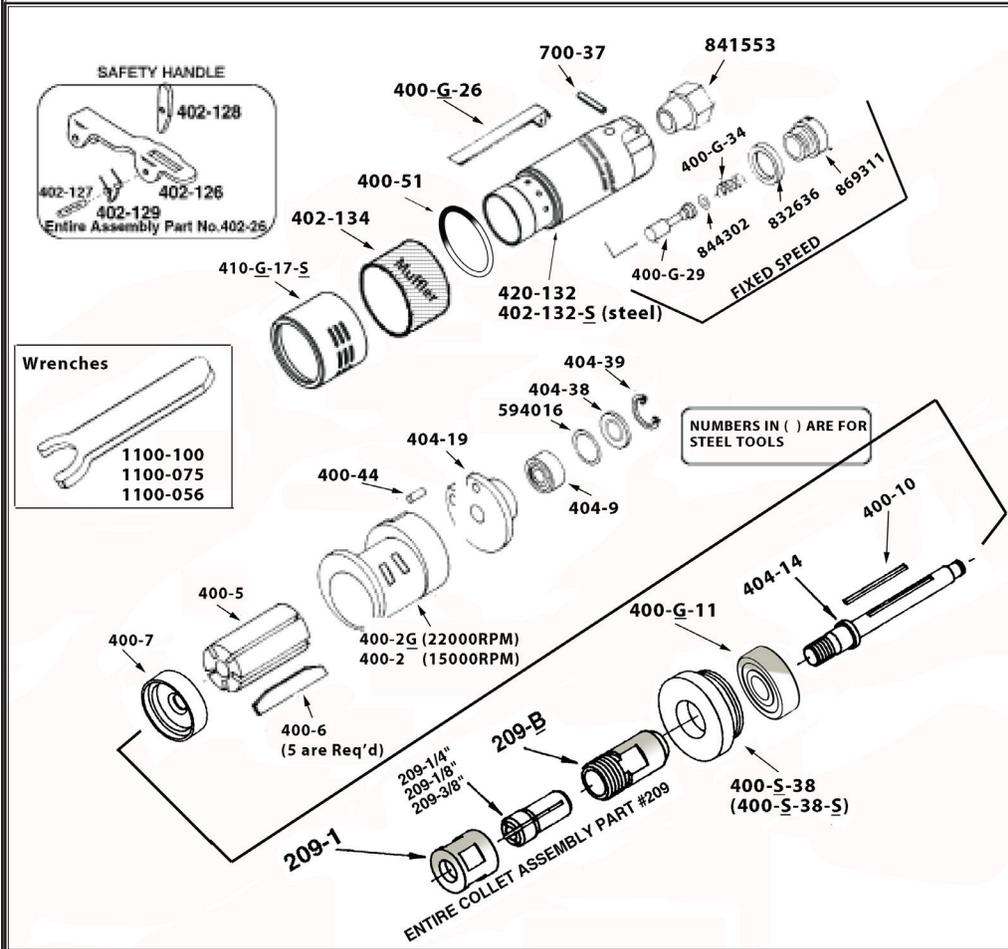
Email: daviidh@msn.com • Website: www.Henrytools.com

General Operators Instructions and Service Manual



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CAUTION Do not use substitutes for oil and grease. This could result in damage to the tool.

MAINTENANCE

1. Proper and continuous lubrication.
2. Blow out air hose to assure a clean air supply.
3. Be sure the air filter and line lubricator are clean.
4. Fill the line lubricator before operation.
5. Place a few drops of oil into the air inlet of the tool before attaching the air line.
6. Use moisture separators to remove water from the air line.
7. An air line filter-regulator-lubricator should be located as closely as possible to the tool.
8. Keep screen handle bushing in tool.

DISASSEMBLY

1. (a) Clamp case (402-130-S) in vise. Remove nut (400-S-38). Pull motor from case. Model 4121 with Erickson collet- remove collet nut (209-1).
2. Remove snap ring (400-39) with type 01 pliers. Lift out wafer (320-9W) and o-ring (320-9R). Remove snap ring (592016).
3. a. With brass or aluminum jawed vise, grasp the O.D. of the cylinder and end plate (400-3) firmly. Use a 3/16" punch and tap spindle out of rear bearing (400-9), being careful not

SAFETY

1. Before operation check spindle speed with a tachometer. If the RPM's exceeds the rated speed stamped on tool, servicing is required.
2. Inspect carbide burrs or mounted points for bends, chips, nicks, cracks or severe wear. If they have any of these problems do not use. On brushes check for loose wires that may fly off in operation.
3. Start new mounted points or burrs under a steel bench. Run at full throttle for one minute.
4. The 4121 series die grinders are intended for use with Burrs/Mounted Stones of shank size 1/8 inch, 1/4 inch, 5/16 inch, 3/8 inch, 3mm, 6mm, 8mm. only. They are NOT guarded for type 1 wheels. If you have a type 1 wheel application, please purchase a different model tool.

5. At least one-half of the mandrel length (i.e. mounted wheel, burr, etc.) must be inserted into the collet. Secure collet chuck tightly.
 6. Safety levers are available from the manufacturer (402-26).
 7. Before mounting or removing a Burr/mounted point disconnect the grinder from air supply. Wear safety goggles and other protective clothing (when necessary). (See regulations.)
 8. Properly maintained air tools are less likely to fail or cause accidents. If tool vibrates or produces an unusual sound, repair immediately.
- LUBRICATION**
Lubricate the motor with an air line lubricator, using a light air motor oil. Adjust the lubricator to dispense one drop per cycle or three drops per minute.

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rear thrust.)

5. Place bearing(400-9) in rear thrust (400-3)and tap bearing in with a suitable bearing driver.

6. Place snap ring (592016) on spindle groove. Drop o-ring(320-9R) and washer (320-9W) in rear thrust. Place snap ring(400-39) into groove.

7. Slip motor assembly in case (402-130-5). Put backhead in vise and screw on motor housing. Tighten with a strap wrench.

CAUTION: CHECK TOOL FOR SPEED WITH TACHOMETER.

THE SPEED STAMPED ON TOOL MUST BE AT OR ABOVE THE ACTUAL SPEED OF THE TOOL.

Additional information on safety is available in the "American National Safety Code for Portable Air Tools" (ANSI B186.1). This bulletin is available from the American Standards Institute, Inc., 1430 Broadway, New York, N.Y. 10018.

This tool is designed to operate on 90 psig (6.2 bar) maximum air pressure with 1/4 (8 mm) hose.

FAULT	CAUSE	SOLUTION
Insufficient Power	Air pressure too low	Minimum air pressure <i>should</i> be 90 PSI for maximum performance
	Restriction in air hose	Remove bends or other restrictions
	Hose I.D. is too small	Use required hose I.D.
	Worn vanes	Exchange vanes (400-6)
	Screen Support clogged	Clean screen support or exchange with new one
Machine does not start	No air, shut-off valve is closed.	Open shut-off valve
	Worn vanes due to lack of oil or vanes are jammed	Exchange vanes . (cylinder might also be worn out)
Grinder does not want to stop	Worn O-Ring	Replace o-ring in handle (844302) for example.
Spindle wobbles or vibrates.	Bearings worn out . Danger!!	Disconnect tool from the air supply. Immediate servicing is required.

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