

# HENRY TOOLS

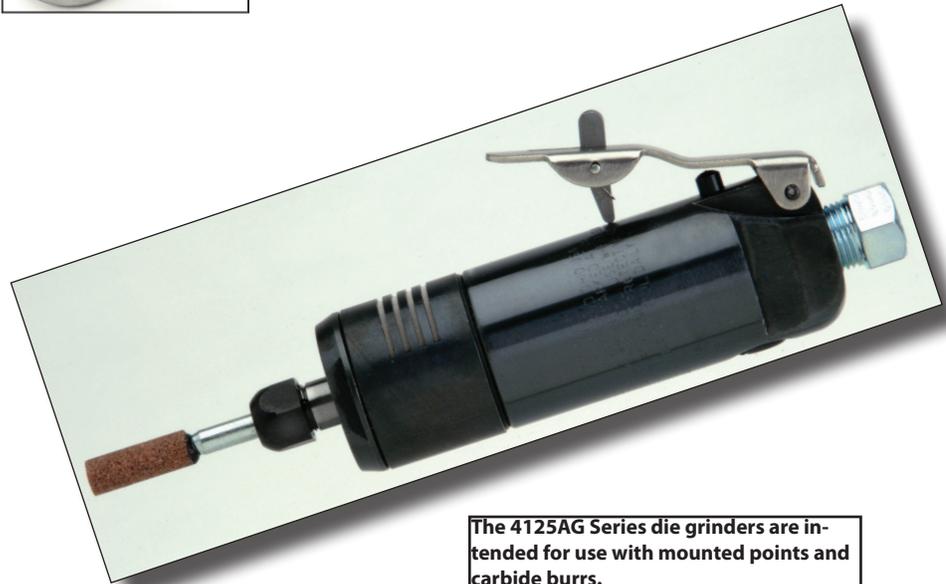
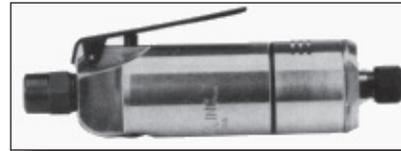
Industrial Airtools at Work

MODEL  
4125AGL  
Series

New for Year 2010



## General Safety and Maintenance Manual



The 4125AG Series die grinders are intended for use with mounted points and carbide burrs.

New for Year 2010

Model Number	Exhaust Direction	Throttle Type	Speed	Power Output	Case Material	Weight		Length	Diameter	Air Consumption	Collet Size
						Aluminum	Steel				
4125AGL	Side	(L) Lever or (K) Safety Lever	15000 to 22000 R.P.M. (18000RPM is Standard)	0.9 H.P. 675 W	Steel or Aluminum	1.6 lb/0.7 Kg	2.0 lb/0.9 Kg	5 1/2" 140mm	1.6 inches 41 mm	25cfm 11.8 L/S	1/4"
4125AGK											

**THE HENRY TOOL CO., MANUFACTURED BY HENRY TOOLS**

498 So. Belvoir Blvd., South Euclid, OH 44121 U.S.A.

Ph: (216) 291-1011 or (800) 826-5257 • Fax: (216) 291-5949 or (800) 303-2800

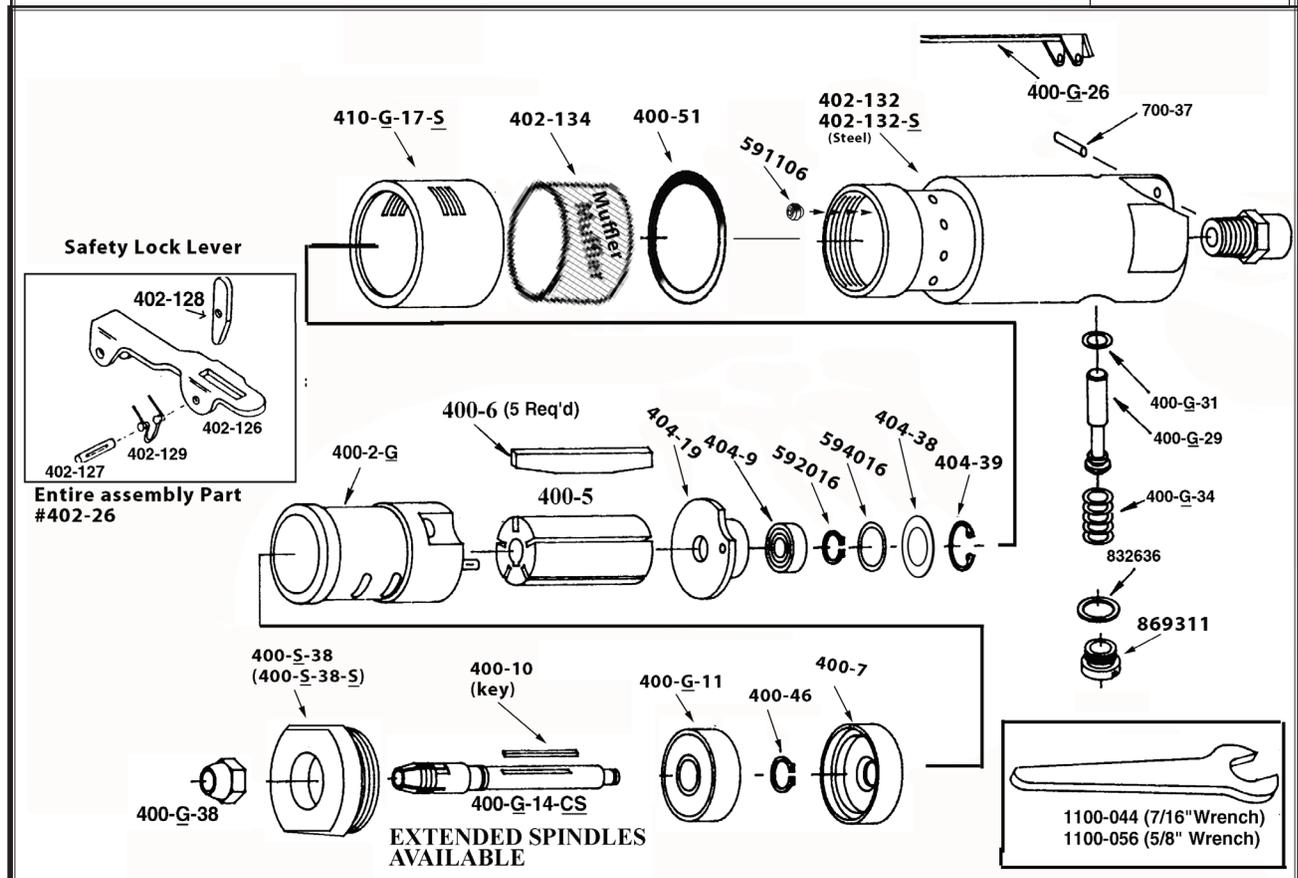
Email: [daviidh@msn.com](mailto:daviidh@msn.com) • Website: [www.Henrytools.com](http://www.Henrytools.com)

# General Operators Instructions and Service Manual



MODEL  
4125AGL  
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## SAFETY

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.

1. Before operation check spindle speed with a tachometer. If the RPM's exceed the rated speed stamped on tool, servicing is required.
2. The 4125 series die grinders are intended for use with mounted points and carbide burs. They are not guarded for type 1 wheels. If you have a type 1 wheel application, please purchase another model tool.
3. At least one-half of the mandrel length (i.e. mounted wheel, burr, etc.) must be inserted into the collet. Secure collet chuck tightly.
4. Safety levers (402-26) are available from the manufacturer Henrytools, Inc..
5. CAUTION: Before mounting or removing a Mounted point or carbide burr disconnect grinder from air supply.
6. Wear safety goggles and other protective clothing (when necessary). (See regulations.)
7. Properly maintained air tools are less likely to fail

or cause accidents. If the tool vibrates or produces an unusual sound, repair immediately.

## LUBRICATION

1. An air line filter-regulator-lubricator should be located as closely as possible to the tool.
2. Clean out dirt and moisture from air hoses daily.
3. Keep screen handle bushing in tool.

## DISASSEMBLY

1. CAUTION: Disconnect air supply. Remove collet nut (400-G-38) with 5/8" wrench and 7/16" wrench.
2. Clamp backhead [402-132(S)] in a vise. Using a wrench, unscrew case lock nut (540129 or 420-130). Next replace (400-G-38) on spindle. Grab collet nut with vise and pull out motor package. Remove collet nut.
3. Remove snap ring (404-39). Remove wafer (404-38) and O-Ring (594016). Remove snap ring (592016).
4. With brass or aluminum jawed vise, grasp the O.D. of the cylinder (400-2G) and end plate (404-19) firmly. Use a 3/16" punch and tap spindle out of rear bearing (404-9), being careful not to drop spindle assembly when it is free.
5. Remove the rotor (400-5), blades (400-6), key (400-10) and front thrust plate (400-7).
6. Remove snap ring (400-46) with type 02 pliers. Place bearing and spindle assembly (threaded end down) on suitable drill block. Press spindle through the bearing with an arbor press.
7. (OPTIONAL STEP): To check throttle valve, unscrew plug (869311) and lift out valve

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498 So. Bevoir Blvd., South Euclid, OH 44121 U.S.A.  
Ph: (216) 291-1011 or (800) 826-3457 • Fax: (216) 291-5949 or (800) 303-2800  
Email: [davidhdh@msn.com](mailto:davidhdh@msn.com) • Website: [www.Henrytools.com](http://www.Henrytools.com)

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spring (400-G-34) and plunger (400-G-29). Remove o-ring (400-G-31) and replace if cracked or worn.

### REASSEMBLY

- Support front bearing (400-G-11) on suitable drill block. Press spindle [400-G-14-CS] through bearing until it bottoms on shoulder.
- With type 02 pliers place the snap ring (400-46) into the groove. Slide on front thrust (400-7) over the arbor and on the front bearing.
- Place the key (400-10) into the slot in the spindle. Slide rotor (400-5) over spindle, aligning the keyway in the rotor with the key in spindle.
- Place five blades (400-6) in slots of rotor. Slip cylinder [400-2(G)] over rotor. Install rear thrust[404-19]. (Carefully locate cylinder in the smaller hole of the rear thrust plate.)
- Place bearing (404-9) in rear thrust and tap bearing in with a suitable bearing driver.
- Place snap ring (592016) on spindle groove. Drop o-ring(594016) and Bearing cover (404-38) in rear thrust. Place snap ring(404-39) into groove of endplate (404-19).
- Slip entire motor assembly in case (402-130(S)). Put backhead in vise and replace exahust sleeve(410-G-17(S)). Replace Lock nut(540129 or 420-130) and tighten.

CAUTION: CHECK TOOL FOR SPEED WITH TACHOMETER. THE SPEED STAMPED ON TOOL MUST BE AT OR ABOVE THE ACTUAL SPEED OF THE TOOL.

PART	DESCRIPTION
540129	STEEL MOTOR RETAINER
591106	SET SCREW (SPECIFY SPEED)
592016	SNAP RING
594016	O-RING
832636	GASKET
841553	3/8 NPT TO 1/4 NPT BUSHING
844302	O-RING
869311	THROTTLE VALVE CAP
400-10	KEY
400-2G	CYLINDER
400-2GR	REVERSE ROTATION CYLINDER
400-44	ROLL PIN
400-46	SNAP RING
400-5	ROTOR
400-51	O-RING
400-6	BLADE (5 REQ)
400-7	FRONT ENDPLATE
400-G 14-CS+3	3" EXTENDED SPINDLE
400-G 14-CS+6	6" EXTENDED SPINDLE
400-G-11	FRONT BEARING
400-G-14-CS	COLLET SPINDLE
400-G-26	THROTTLE LEVER
400-G-29	THROTTLE VALVE-INCLUDES 844302
400-G-34	SPRING
400-S-38	ALUMINUM MOTOR RETAINER
400-S-38-S	STEEL MOTOR RETAINER
402-126	SAFETY LEVER
402-127	SAFETY LEVER PIN
402-128	LOCKOUT LEVER
402-129	SAFETY LEVER SPRING

PART	DESCRIPTION
402-132	ALUMINUM CASE (SPECIFY SPEED)
402-132-S	STEEL CASE (SPECIFY SPEED)
402-134	MUFFLER SCREEN
404-19	REAR ENDPLATE
404-19R	REVERSE ROTATION REAR ENDPLATE(Special)
404-38	BEARING COVER
404-39	SNAP RING
404-9	REAR BEARING
410-G-17-S	STEEL SIDE EXHAUST SLEEVE
700-37	THROTTLE LEVER PIN
WRENCHES	
1100-044	7/16" WRENCH
1100-063	5/8" Wrench
ASSEMBLIES	
510240	REPAIR KIT
402-26	SAFETY LEVER ASSEMBLY (COMPLETE)
AA-402-132	ALUMINUM CASE ASSY.(SPECIFY SPEED)
AA-402-132-S	STEEL CASE ASSY. (SPECIFY SPEED)
AA-402-132-SK	STEEL SAFETY CASE ASSY.(SPECIFY SPEED)
ACCESSORIES	
300-16	1/4" TO 1/8" COLLET ADAPTER

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. <i>Immediate</i> servicing is required.

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