

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 • WEBSITE: WWW.HENRYTOOLS.COM



**General Operators Instructions and Service Manual** 

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# **General Operators Instructions and Service Manual**



PART NUMBER	DESCRIPTION		
209-1	COLLET NUT		
209-1/4	1/4" INSERT		
209-1/8	1/8" INSERT		
209-3/16	3/16" INSERT		
209-3/8	3/8" INSERT		
400-G-4	ALUM. BACKHEAD		
400-G-4-S	STEEL BACKHEAD		
400-2G	CYLINDER (STANDARD)		
400-2GR	CYLINDER (REVERSE ROTATION) (Special order cylinder)		
400-44	ROLL PIN		
400-51	0-RING		
400-6	BLADE (4 REQ.)		
400-G-26	THROTTLE LEVER		
400-G-29	THROTTLE VALVE (INCLUDES 844302)		
400-G-34	SPRING		
402-126	SAFETY LEVER		
402-127	SAFETY LEVER PIN		
402-128	LOCKOUT LEVER		
402-129	SAFETY LEVER SPRING		
4031-5A	ROTOR/SPINDLE		
4031-5R	ROTOR SPACER		
403-38	FRONT MOTOR RETAINER		
403-7	FRONT ENDPLATE		
404-19	REAR ENDPLATE		
404-19R	REAR ENDPLATE (REVERSE ROTA- TION)(Special)		
404-38	BEARING COVER		
404-39	SNAP RING		
404-9	REAR BEARING		
540098	ALUMINUM CASE		
540916	STEEL CASE		
590031	FRONT BEARING		
591106	SET SCREW (SPECIFY SPEED)		
592016	SNAP RING		
594016	0-RING		
700-37	THROTTLE LEVER PIN		
832636	GASKET		
841552	3/8 NPT TO 3/8 NPT BUSHING		
041332			
841553	3/8 NPT TO 1/4 NPT BUSHING		

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PART NUMBER	DESCRIPTION	
869311	THROTTLE VALVE CAP	
1100-672	STANDARD COLLET BODY	
1100-678	EXTENDED COLLET BODY (+6")	
400-G-4	BACKHEAD (ALUMINUM)	
400-G-4-S	BACKHEAD (STEEL)	
403-11	BEARING	
ASSEMBLIES		
402-26	SAFETY LEVER ASSY.	
REPAIR KITS		
510206	REPAIR KIT Model 4123&4124Se- ries. INCLUDES: ALL BEARINGS , ROTOR BLADES and SNAP RINGS.	
WRENCHES		
1100-068	11/16" WRENCH	
1100-075	3/4" WRENCH	

FAULT	CAUSE	SOLUTION
Insufficient Power	Air pressure too Iow	Minimum air pressure <i>should</i> be 90 PSI for maximum performance
	Restriction in air hose	Remove bends or other restric- tions
	Hose I.D. is too small	Use required hose I.D.
	Worn vanes	Exchange vanes (400-6)
	Screen Support clogged	Clean screen support or ex- change 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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For additional product information visit our website.

# MODELS 4124 GL 4124 GL+6 4124 GLS



### SAFETY

1. Before operation check spindle speed with a tachometer. If the RPM's exceeds the rated speed stamped on tool, servicing is required. For safety reasons and product liability prohibit any modifications to tools.

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 4124 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.

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 be-fore 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.

WARNING: Disconnect the air supply hose before servicing the tool.

# DISASSEMBLY

 Secure tool in vise vertically with output of tool oriented toward upward direction. Clamp onto the backhead (400-G-4) flats toward the rear of the tool.
Unscrew motor case (540916). Remove entire motor assembly.

3. Secure motor assembly into vise vertically with

output in the downward direction. Clamp onto flats on the collet body (1100-672).

4. Remove snap ring (404-39) from rear endplate (404-19) with use of snap ring pliers.

5. Lift out bearing cover (404-38) and o-ring (594016).

6. Remove snap ring (592016) from groove of rotor (4031-5A).

7. Using a soft-jawed vise. Secure motor assembly into vise vertically with output toward downward direction. Clamp lightly the outside diameter of the cylinder (400-2G) and endplate (404-19).

Use a 3/16" punch to tap spindle out of rear bearing (404-9). Do NOT drop the motor assembly when it is free. Remove from vise.
Use a small punch to press the rear bearing from the rear end-

plate. 10. Remove the 5 blades (400-6).

11. With soft jaws still in vise, clamp firmly onto rotor (4031-5A) with output toward upward position. Remove collet body (1100-672) (right hand thread). Remove from vise.

12. Support the rotor assembly on a suitable drill block. Press the spindle through the front bearing assy. using an arbor press. Use a small punch to remove front bearing (590031) from front end-plate(403-7).

13. (OPTIONAL STEP): To check throttle valve unscrew throttle valve cap (869311).

14. 14. (OPTIONAL STEP): Lift out valve spring (400-G-34) and throttle valve (400-G-29). Remove and replace o-ring (844302) if cracked or worn.

# ASSEMBLY

1. Be sure that all parts are clean.

2. Press bearing (590031) into recessed area of front endplate (403-7).

3. Support the front bearing assembly on a suitable drill block. Press the rotor (4031-5A) into the rear of front endplate and through front bearing.

4. With soft jaws on vise, clamp firmly onto rotor (4031-5A) with output toward upward position. Install collet body (1100-672) (right hand thread). Remove rotor from vise.

5. Secure motor assembly into vise vertically with output in the downward direction. Clamp onto flats on the collet body (1100-672).

6. Place blades (400-6) into blade slots.

7. Slip cylinder (400-2G) over rotor and onto endplate. The small pin on face of cylinder should face toward rear to tool.

8. Place rear endplate (404-19) onto cylinder. Locate the pin of the cylinder into the small hole of the rear endplate.

9. Press bearing (404-9) into rear endplate with a suitable bearing driver.

10. Install retaining ring (592016) into groove on spindle with snap ring pliers.

11. Place o-ring (594016) and bearing cover (404-38) into rear end-plate.

12. Install snap ring (404-39) into groove of reard endplate.

13. Secure motor housing (594016) in vise vertically with output of tool toward upward direction. Clamp onto the flats toward the rear of the motor housing.

14. Slide front motor assembly into motor housing. Replace backhead (400-G-4-S). Tighten assemblies together.

15. Check the operating speed with a reliable tachometer. The speed must be at or below the stamped speed on the tool.

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