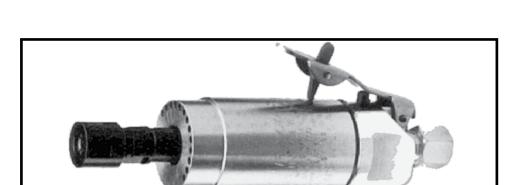


MODELS 4117 GL 4117 GLS 4117 GLSK



General Safety and Maintenance Manual



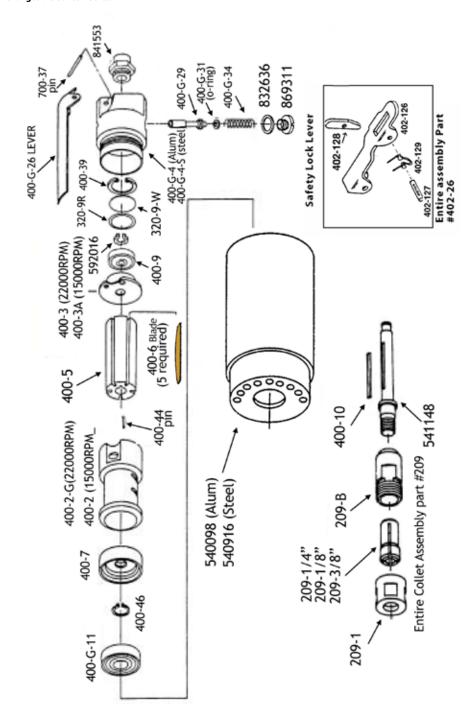
Model 4117GL FRONT EXHAUST die grinder with Erickson Style Type Collet.

Model	Exhaust	Throttle	Speed	Power	Case	Weight		Length	Diameter	Air	Wheel Capacity
Number	Direction	Type		Output	Material	Aluminum	Steel			Consump-	
										tion	
4117GL	FRONT	(L) Lever	15000	0.9 H.P.	Steel	1.5 lb/0.7	2.0 lb/0.9	6.9 inch	1.6 inches	25 CFM (11.8	Mounted stones
		or	to	675 W	or	Kg	Kg	175 mm	41 mm	L/s)	or Carbide Burrs
4117GLS		(K) Safety	22000		Alumi-	1.6 lb/0.7	2.0 lb/0.9	9.3 inch			ONLY Not rated
		Lever	R.P.M.		num	Kg	Kg	236 mm			for use with grind-
4117GLSK			(18000RPM			1.7 lb/0.8	2.1 lb/1.0	12.3 inch			ing wheels.
			is Standard)			Kg	Kg	312 mm			

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
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Model 4117G Die Grinder with Erickson Type Collet with interchangeable collet inserts. MODELS 4117 GL 4117 GLS 4117 GLSK



General Operators Instructions and Service Manual



PART NUMBER

400-2-G

400-2

400-G-11

400-46

400-5

400-6

400-44

540098

540916

400-9

592016

400-3

400-3A

320-9R

320-9-W

400-39

700-37

841553

400-G-29

400-G-31

400-G-34

832636

869311

402-128

402-126

402-129

402-127

400-G-26

Model 4117G Die Grinder with Erickson Type Collet with interchangeable collet inserts.

Description

Bearing

Rotor

Snap Ring

Clyinder Pin

Bearomg

Snap Ring

O-Ring

Bearing Cover

screen bushing

Throttle Valve

O-Ring

Spring

Gasket

Throttle Valve Cap

safety lock trigger

Safety Lever Spring

Safety Lever Pin

Lever (Bare)

Snap Ring

Lever

Pin

Front Case Aluminum

Front Case STEEL

Cylinder (22000RPM)

Cylinder (15000RPM)

Rotor Blades (5 are Required) Rear Emd {;ate (22000RPM) Rear Emd (;ate (15000RPM)

MODELS 4117 GL 4117 GLS 4117 GLSK

PART NUMBER	Description				
402-26	ENTIRE Safety Lock Lever Assembly				
541148	Spindle				
209-1	Collet Cap				
209-В	Collet Body				
400-10	Key				
209-1/4"	1/4" collet insert				
209-1/8"	1/8" collet insert				
209-3/8"	3/8" Collet insert				
400-G-4	Aluminum Backhead				
400-G-4-S	STEEL Backhead				
400-7	Front End Plate				

HENRY TOOLS, INC. Ph: (216) 291-1011 or (800) 826-5257



Model 4117G Die Grinder with Erickson Type Collet with interchangeable collet inserts.

DISASSEMBLY

- 1. (a) Model 4117 with Erickson collet-remove collet nut (209-1).
- 2. Clamp backhead [400-G-4(S)] in a vise. Using a strap wrench, unscrew case (540098/540916). Tap lightly on threaded end of spindle, this will allow the motor to drop out.
- 3. Remove snap ring(400-39) with type 01 pliers. Lift out wafer (320-9W) and oring (If Present)(320-9R). Remove snap ring (592016)
- 4. 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 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. Place bearing and spindle assembly (threaded end down) on suitable drill block. Press spindle (541148) through the bearing (400-G-11) with an arbor press.
- 7. To check throttle valve. unscrew plug (869311) and lift out valve spring (400-G-34) and plunger (400-G-29). Remove o-ring (400-G-31) and replace if cracked or worn.

REASSEMBLY

- 1. Support front bearing (400-G-II) on suitable drill block. Press spindle [541148] through bearing until it bottoms on shoulder.
 2. Slide on front thrust (400-7) over the arbor and on the front bearing.
- 3. 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. Grasp rotor firmly in a soft jawed vise and replace the erickson collet and tighten firmly.
- 4. Place five blades (400-6) in slots of rotor. Slip cylinder [400-2(G)] over rotor.

Install rear thrust[400-3(A)]. (Carefully locate cylinder in the smaller hole of the rear thrust (400-3).

- 5. Place bearing in rear thrust and tap bearing in with suitable bearing driver.
- 6. Place snap ring (592016) on spindle groove. If desired, 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 (540098/540916.) Put backhead in vise and screw on motor housing. Tighten with a strap wrench
- 8. Re-attach guard if necessary.

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 BI86.1). This bulletin is available from the

American Standards Institute, Inc., 1430 Broadway, New York, N.Y. 10018.

MODELS 4117 GL 4117 GLS 4117 GLSK

- 1. Before operation check spindle speed with a tachometer. If the RPM's exceed the rated speed stamped on tool, servicing is required.
- 2. Inspect grinding wheels for bends, chips, nicks, cracks or severe wear. If the wheel has any of these problems, or has been soaked in liquids do not use. On brushes check for loose wires that may fly off in operation.
- 3. Start new grinding wheels under a steel bench. Run at full throttle for one minute. Defective wheels usually come apart immediately. When starting a cold wheel apply to the work slowly, allow wheel to warm up gradually.
- 4. The 4117 die grinders are intended for use with mounted wheels, points and carbide burrs. They are not guarded for type 1 wheels. If you have a type 1 wheel
- application, please purchase a wheel guard (4503,4504).
- 5. The 4117 die grinders can be used with a guard from the manufacturer. A guard is not needed for : a.) mounted wheels two inches (50 mm) or smaller; b.) grinders used for internal work, while within the work being ground.
- 6. At least one-half of the mandrel length (i.e. mounted wheel, burr, etc.) must be inserted into collet. Secure collet chuck tightly.
- 7. Safety levers are available from the manufacturer (402-26).
- 8. Before mounting or removing a wheel disconnect grinder from air supply. Wear safety goggles and other protective clothing (when necessary).(See

regulations.)

Properly maintained air tools are less likely to fail or cause accidents. If 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 fron air hoses daily. Keep screen handle bushing in tool.
- 3. OIL TOOLS DAILY. Exxon's Spinesstic 10, Atlantic Richfield's Duro 55, Gulf's Gulfspin 10 or an equivalent is recommended. Pour about 1 tablespoon in air inlet and run tool to allow oil to be carried to the interior. OIL DAILY!!!

SAFETY