



HENRYTOOLS

Industrial Airtools



General Safety and Maintenance Manual



MODELS
57 HL
57 HLOLS
57 HGS
57 AHL
57 AHG
57 AHK
57 AHG
Series



1.5 H.P. GOVERNED SPEED HORIZONTAL GRINDERS



Shown with Belt Grinding Attachment

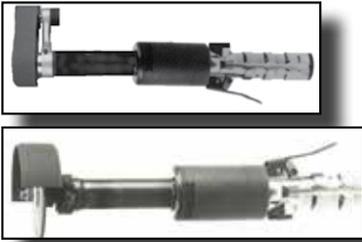
Model Number	Exhaust Direction	Throttle Type	Rated Speed	Power Output	Case Material	Weight		Overall Length	Body Diameter	Working Air Consumption	Spindle Length & Thread
						ALUM	STEEL				
57HL	Side Exhaust	(L) Lever or (K) Safety Lever (G) Spade grip Handle	6000 -15000 R.P.M.	1.5 H.P .1130 W	(S) Steel or Aluminum	5.9	7.2	18.2 Inch/ 463mm	2.5 Inch (63.5 mm)	35 cfm (16.5 L/s)	3/8-24 X 1.0 Inch (3/8-24 X 25 mm) & 1/2-13 Thread
57HLS						Lb./2.9	Lb./3.3				
57HK											
57HG						6.9	8.2				
						Kg	Kg				

THE HENRY TOOL CO., MANUFACTURED BY HENRY TOOLS

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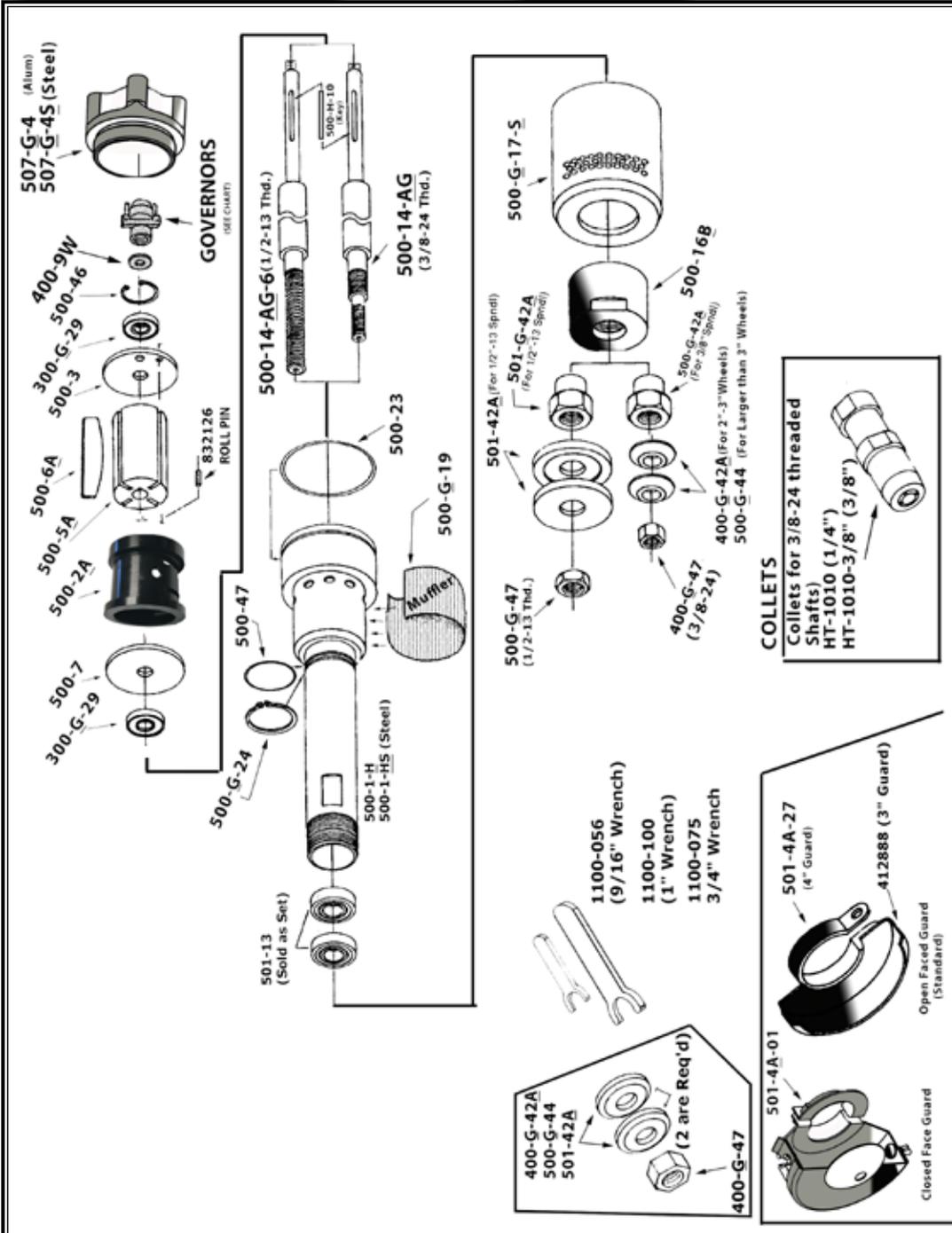


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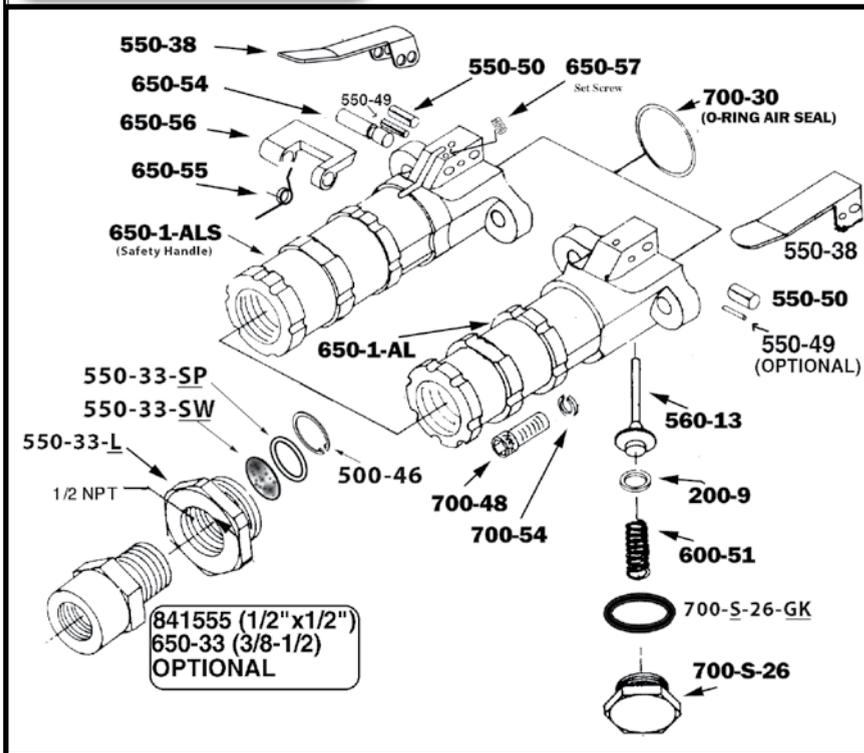
SAFETY

1. Check speed of tool with tachometer before every wheel & burr change. If RPM exceeds rated speed stamped on tool, servicing is required. This tool is designed to operate on 90 psig (6.2 bar) maximum air pressure with 1/4" (8mm) hose.
2. Do not use any wheel having an operating speed lower than the actual free speed on grinder.
3. Inspect grinding wheels for bends, chips, nicks, cracks or severe wear. If the wheel has any of these, or has been soaked in liquids do not use. On brushes check for loose wires that may fly off in operation.
4. 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.
5. Model 57H





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(Safety continued)

- grinders are equipped 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. If your tool is purchased with a collet. At least one-half of the mandrel length (i.e. mounted wheel, burr, etc.) must be inserted into the collet. Secure collet chuck tightly.
7. Before mounting or removing a wheel or carbide burr disconnect grinder from air supply. The wheel should fit properly on arbor; do not use bushings or wheel flanges to adapt a wheel to any arbor unless recommended by manufacturer. (Wheel flanges should be at least 1/3 the diameter of the grinding wheel.)
8. Wear safety goggles and other protective clothing. Continuous exposure to vibration may cause injury to hands and arms.
9. Properly maintained air tools are less likely to fail or cause accidents. If tool vibrates unusually or produces an unusual noise, repair immediately.

LUBRICATION

Check for wet or dirty air. Excessive moisture in the air supply tends to wash lubricant away from the working parts of the tool and rust or corrode the interior. Grit will damage the interior by scoring closely fitted parts, and impede the action of the tool.

If the above are found in order, disconnect tool and pour a liberal amount of recommended oil or an SAE #10 oil cut with an equal quantity of kerosene into the air inlet. Operate the tool to allow lubricant to flush accumulated gum and grit out the exhaust.

If outside factors are not to blame, disassemble the tool, clean and inspect all parts and replace those worn or broken. Coat parts with airtool oil and reassemble. Pour about 1/2 oz. in air inlet and run tool to allow oil to be carried to interior.

Part Number	Description
200-9	O-Ring
500-46	Snap Ring
550-33-L	Live Handle Adaptor bushing
550-33-SW	Screen Filter
550-33-SP	Spacer
550-38	Lever
550-50	Lever Pin
560-13	Throttle Valve Assembly with 200-9 O-ring installed
600-51	Plunger Spring
650-1-AL	Live Handle Body (Non-Lockout type)
650-1-ALS	Safety Lock Valve Body(Bare)
AA-650-1-AL	Handle Assembly (Complete)(Non-lockout handle)

Part Number	Description
AA-650-1-ALS	Safety Lock Handle Assembly (Complete)
650-33	Screen Bushing(1/2x3/8)
650-54	Safety Lock Pin
650-55	Safety Lock Spring
650-56	Safety Lock Lever
650-57	Set Screw
700-30	O-Ring
700-48	Cap Screw
700-54	Lock Washer
700-S-26	Plug
700-S-26-GK	Gasket
841555	Screen Bushing (1/2X1/2)

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PART	DESCRIPTION
300-G-29	BEARING (2 REQ)
400-G-42	3/8-24 OUTER FLANGE (2"-3" WHEELS)
400-G-47	3/8-24 JAM NUT
400-9W	WASHER
500-G-17-S	EXHAUST DEFLECTOR
500-G-24	LOCK RING
500-G-42A	3/8-24 INNER FLANGE (2"-3" WHEELS)
500-G-43	3/8-24 INNER FLANGE (WHEELS OVER 3")
500-G-44	3/8-24 OUTER FLANGE (WHEELS OVER 3")
500-G-45	1/2-13 TYPE 1 WHEEL INNER FLANGE
500-G-47	1/2-13 JAM NUT
500-H-10	KEY
500-1-HS	STEEL CASE
500-2A	CYLINDER
500-3	REAR ENDPLATE
500-5A	ROTOR
500-6A	BLADE (4 REQ)
500-7	FRONT ENDPLATE
500-14-AG	3/8-24 SPINDLE
500-14-AG-6	1/2-13 SPINDLE
500-16B	CAP
500-23	O-RING
500-46	LOCK RING
500-47	O-RING
501-G-42A	1/2-13 CONE WHEEL INNER FLANGE
501-13	BEARING PAIR
501-42A	1/2" OUTER FLANGE
507-G-4-S	STEEL BACKHEAD
700-37C	ROLL PIN
WRENCHES	
1100-056	9/16" WRENCH
1100-075	3/4" WRENCH
1100-100	1" WRENCH
GOVERNORS	
AA-500-60	GOVERNOR ASSY. (6000 RPM)
AA-500-70	GOVERNOR ASSY. (7000 RPM)
AA-500-75	GOVERNOR ASSY. (7500 RPM)
AA-500-80	GOVERNOR ASSY. (8000 RPM)
AA-500-90	GOVERNOR ASSY. (9000 RPM)
AA-500-100	GOVERNOR ASSY. (10000 RPM)

PART	DESCRIPTION
AA-500-120	GOVERNOR ASSY. (12000 RPM)
ACCESSORIES	
400-76J	9/16 UNTHREADED SPACER
400-77	3/8-24 THREADED 9/16 SPACER (FOR CONE WHEELS)
400-77J	3/8-24 THREADED 3/8 SPACER
400-78	3/8-24 TO 5/8-11 ADAPTER
COLLET ASSEMBLIES	
HT-1010	3/8-24 TO 1/4" I.D.- 2 PIECE HEAVY DUTY
HT-1010-3/8	3/8-24 TO 1/4" I.D.- 2 PIECE HEAVY DUTY
AA-209-1/8	3/8-24 - 3 PIECE ERICKSON COLLET ASSY.- 1/8" INSERT
AA-209-3/16	3/8-24 - 3 PIECE ERICKSON COLLET ASSY.- 3/16" INSERT
AA-209-1/4	3/8-24 - 3 PIECE ERICKSON COLLET ASSY.- 1/4" INSERT
AA-209-5/16	3/8-24 - 3 PIECE ERICKSON COLLET ASSY.- 5/16" INSERT
AA-209-3/8	3/8-24 - 3 PIECE ERICKSON COLLET ASSY.- 3/8" INSERT
GUARDS	
501-4A-01	4" TYPE 01 GUARD(CLOSED FACE)
501-4A=27	4" TYPE 27 GUARD (Standard)
REPAIR KITS	
510110	REPAIR KIT INCLUDES: ALL BEARINGS , ROTOR BLADES, SNAP RINGS AND O-RINGS.

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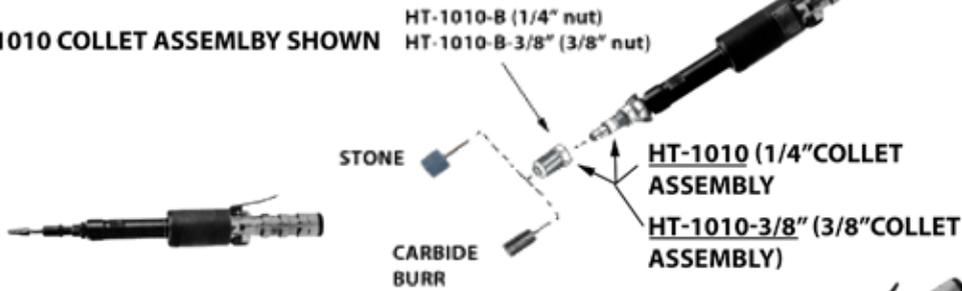


SAMPLE : MOUNTING OF CONE WHEELS ON HORIZONTAL GRINDERS

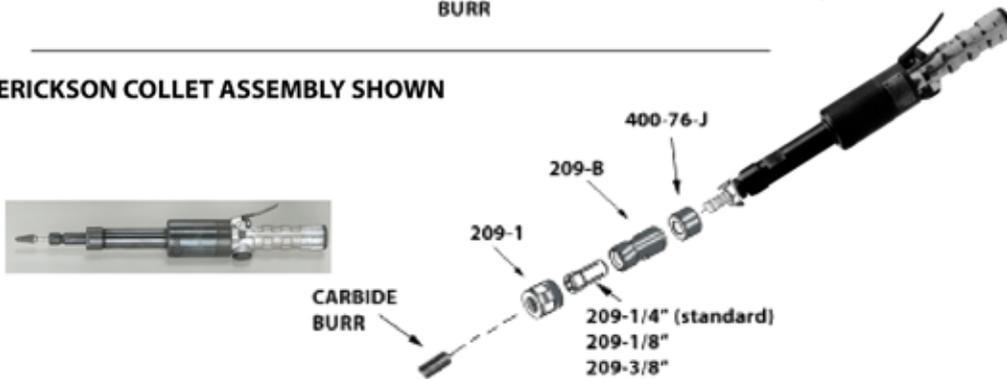


SAMPLE : MOUNTING OF CARBIDE BURRS ON HORIZONTAL GRINDERS

HT-1010 COLLET ASSEMBLY SHOWN



ERICKSON COLLET ASSEMBLY SHOWN



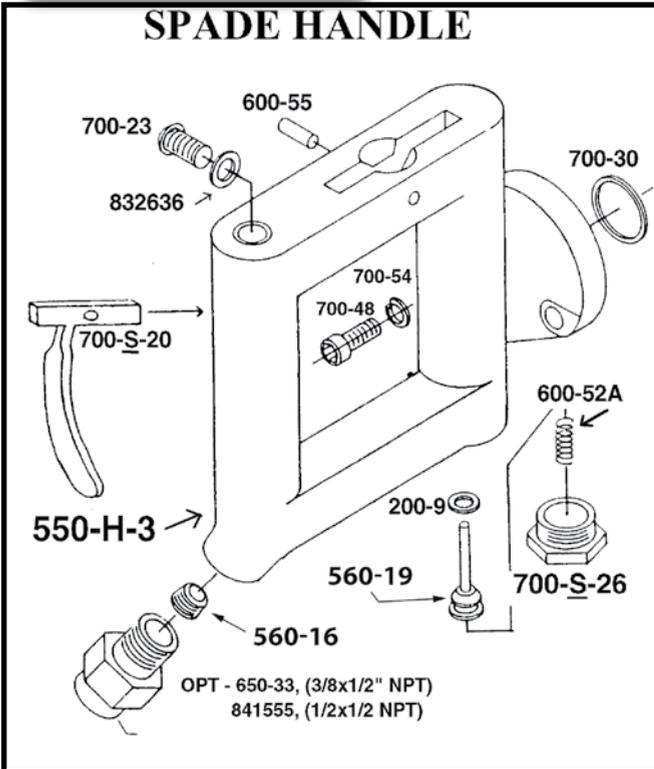
Sample: Horizontal Grinder with Guard for mounting Type 1 grinding wheels.



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PART NUMBER	DESCRIPTION
700-23	SCREW
832636	GASKET
200-9	O-RING
550-H-3	D HANDLE
560-19	THROTTLE VALVE (INCLUDES O-RING 200-9)
600-52A	SPRING
650-55	TRIGGER PIN
700-30	GASKET
700-48	SCREW
700-54	LOCK WASHER
700-S-20	LEVER TRIGGER
700-S-26	THROTTLE VALVE CAP
841555	1/2 INCH NPT X 1/2 INCH NPT SCREEN HANDLE BUSHING
AA-550-H-3	SPADE HANDLE ASSY.(COMPLETE)

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 and worn cylinder	Exchange vanes (500-6A) and cylinder (500-2A).
	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 (200-9) for example.
Spindle wobbles or vibrates.	Bearings worn out  Danger!! or spindle is bent.	Disconnect tool from the air supply. <i>Im-mEDIATE</i> servicing is required.

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