

SERVICE INSTRUCTIONS



This tool is designed to operate on 90 psig(6.2 bar) maximum air pressure with 1/4"(8mm) hose. Do not use any wheel having an operating speed lower than the actual free speed on grinder.

SAFETY

1. Check speed of tool with tachometer before every wheel & burr change or daily (which ever one is more frequent). If RPM exceeds 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, 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.
Model 40GH 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.
4. At least one-half of the mandrel length (i.e. mounted wheel, burr, etc.)must be inserted into the collet. Secure collet chuck tightly.
5. Before mounting or removing a wheel 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.)
6. Wear safety goggles and other protective clothing. Continuous exposure to vibration may cause injury to hands and arms.
7. 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, thoroughly clean and inspect all parts and replace those worn or broken. Coat parts with light oil and reassemble.

Pour about 1/2 oz. in air inlet and run tool to allow oil to be carried to interior.

MODELS

40 GH

40 GHLS

40 GHLSK

40 GHLS+2"

40 GHLS+3"

DISASSEMBLY

1. Disconnect air and remove all wheels and accessories.
2. Clamp wrench flats of case(400-GH-1) in vise and unscrew backhead(400-G-4). Unscrew case (400-G-1) and remove it. Lift off exhaust sleeve (400-G-17).
3. Remove snap ring(400-39).
4. Remove assembly from vise. Place brass jaws in vise. Clamp cylinder and rear thrust assembly in vise. Using a 3/16" punch, tap out lightly on the end of the spindle(400-GH-14). This will allow the cylinder(400-2[G]), end plate(400-3), bearing(400-9), and blades(400-6) to be removed.
5. Using a 5/16"punch, tap out bearing(400-9) from end plate(400-3).
6. Place rotor(400-5), which is still attached to the spindle, in a vise with brass jaws. Unscrew wheel flange(500-G-42A)(right hand thread). Remove rotor, key(400-10), and front thrust plate(400-7).
7. Remove brass jaws from vise. Clamp wrench flats of case(400-G-1) in vise. Remove bearing cap(500-16B)(left hand thread). Using an arbor press, press on the front of the spindle. This will enable the rear bearing(400-G-11) to drop out and the spindle to be removed.
9. Using a 3/4" round bar, tap out bearing (501-13)from case (400-GH-1).

REASSEMBLY

1. Press bearings (501-13) into recess in front of the case(400-GH-1). Press spindle (400-GH-14) through bearings from the rear.
2. Press bearing (400-G-11) into case from the rear and place the front thrust plate (400-7) over the bearing.
3. Place case (400-GH-1) in vise by the flats. Screw bearing cap(500-16B)(Left hand thread) onto case and tighten.
4. Replace key(400-10) and drop rotor(400-5) into place. With brass jaws installed on vise, grab hold of rotor(400-5). Replace flange(500-G-42A) onto spindle and tighten.
5. Place rear thrust(400-3) on cylinder(dowel pin in cylinder lines up with hole in rear plate(400-3)). Press bearing(400-9) into rear thrust with a suitable bearing driver.
6. Place o-ring(320-9R), washer(320-9W) in rear thrust. Place snap ring(400-3) into groove.
7. Place O-ring (400-51) onto case(400-G-1). Place case(400-G-1) into sleeve(400-G-17). Slide this assembly onto case(400-GH-1) and hand tighten.
8. To make sure there are no air leaks in handle, unscrew cap(869311) and lift out spring(400-G-34)and throttle valve(400-G-29). Remove o-ring(400-G-31) with a sharp tool and replace with a new ring.

Updated 1/30/2004

HENRY AIR TOOLS

MODELS

40 GH

40 GHLS

40 GHLSK

40 GHLS+2"

40 GHLS+3"



Model 40GHLK with 4" Guard

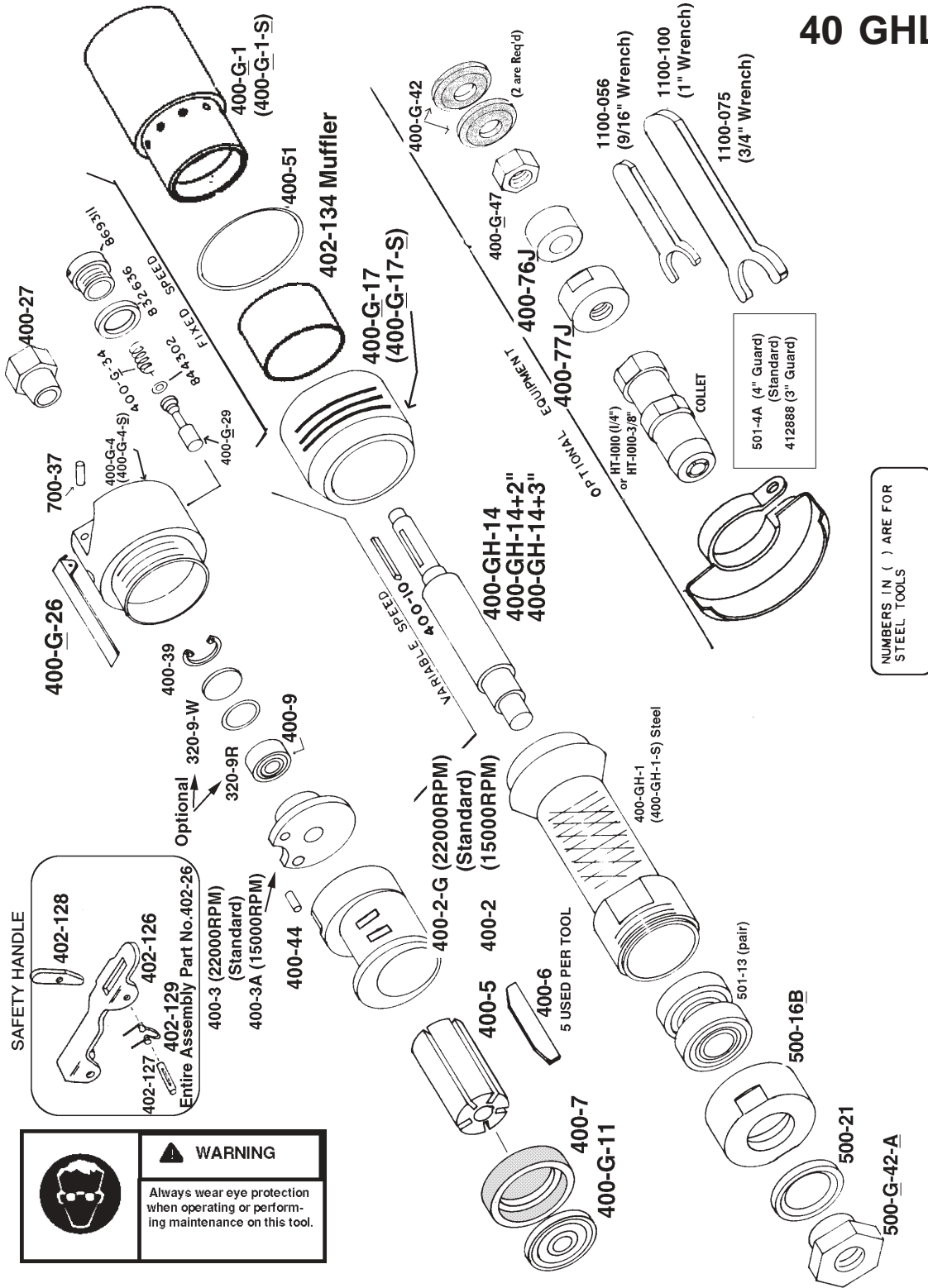


Model 40GHLS with 1/4" Collet



Model 40GHLS+3" Extended Spindle

18000RPM to 22000RPM Standard



NUMBERS IN () ARE FOR STEEL TOOLS

WARNING

Always wear eye protection when operating or performing maintenance on this tool.