



HG3 HOLLOW GRINDER Instruction Manual

The Lord is my shepherd, I shall lack nothing.
He makes me lie down in green pastures,
he leads me beside quiet waters, he restores my soul.
He guides me in paths of righteousness for his name's sake.
Even though I walk through the valley of the shadow of death,
I will fear no evil, for you are with me;
You prepare a table before me in the presence of my enemies.
You anoint my head with oil, my cup overflows.
Surely goodness and love will follow me all the days of my life,
and I will dwell in the house of the Lord forever.

Psalm 23



*...ends the
“Stone Age”
of Knife Sharpening.*

INTRODUCTION

This manual has been prepared to familiarize you with the operation and maintenance of your Tru Hone HG3 Hollow Grinder and to provide important safety information. Following these instructions will help assure safe and trouble free operation of your Tru Hone Hollow Grinder System.

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Tru Hone HG3 Hollow Grinder

General Description of Parts & Switches

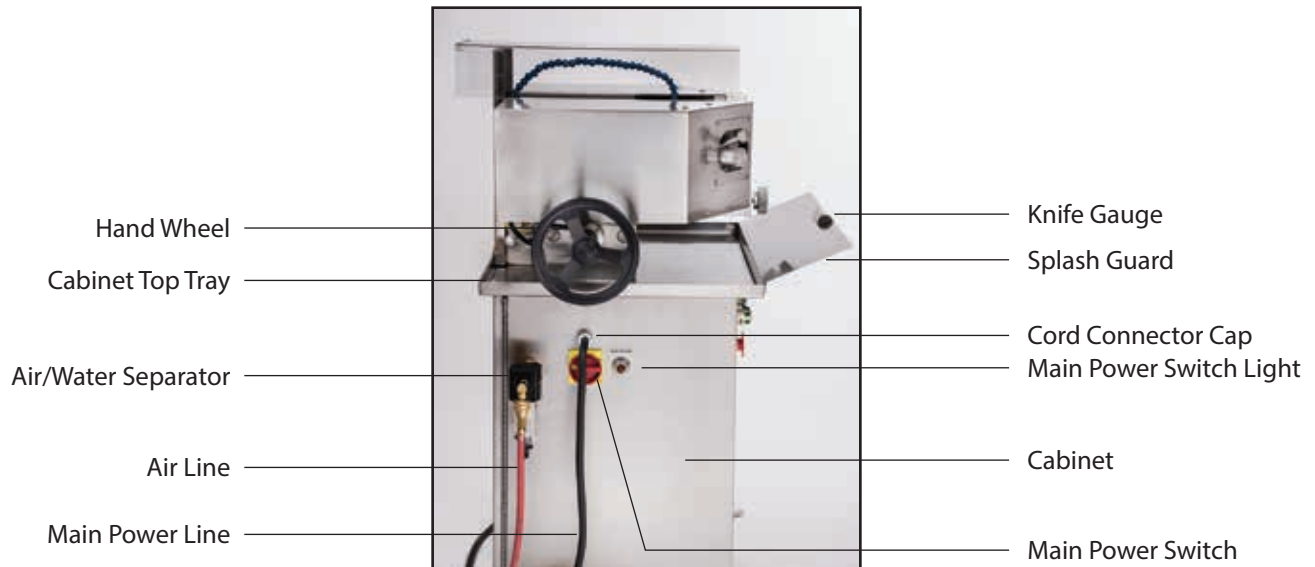


Fig. 1 Left View

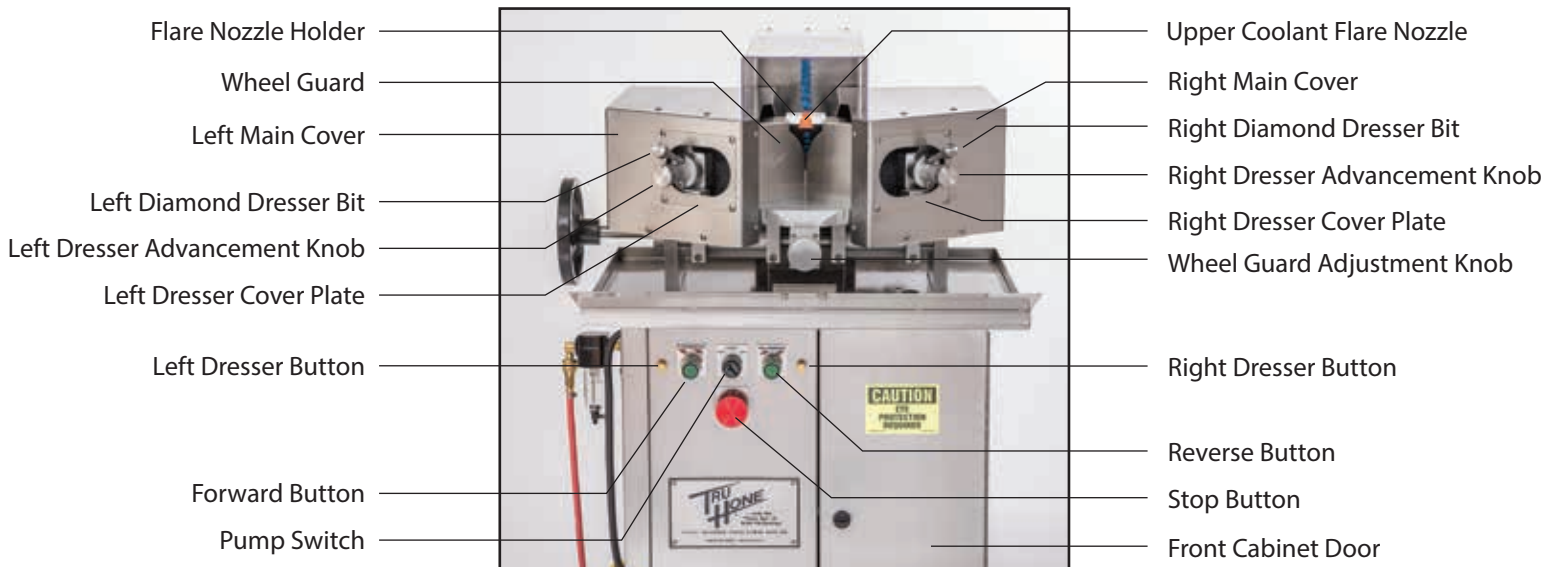


Fig. 2 Front View

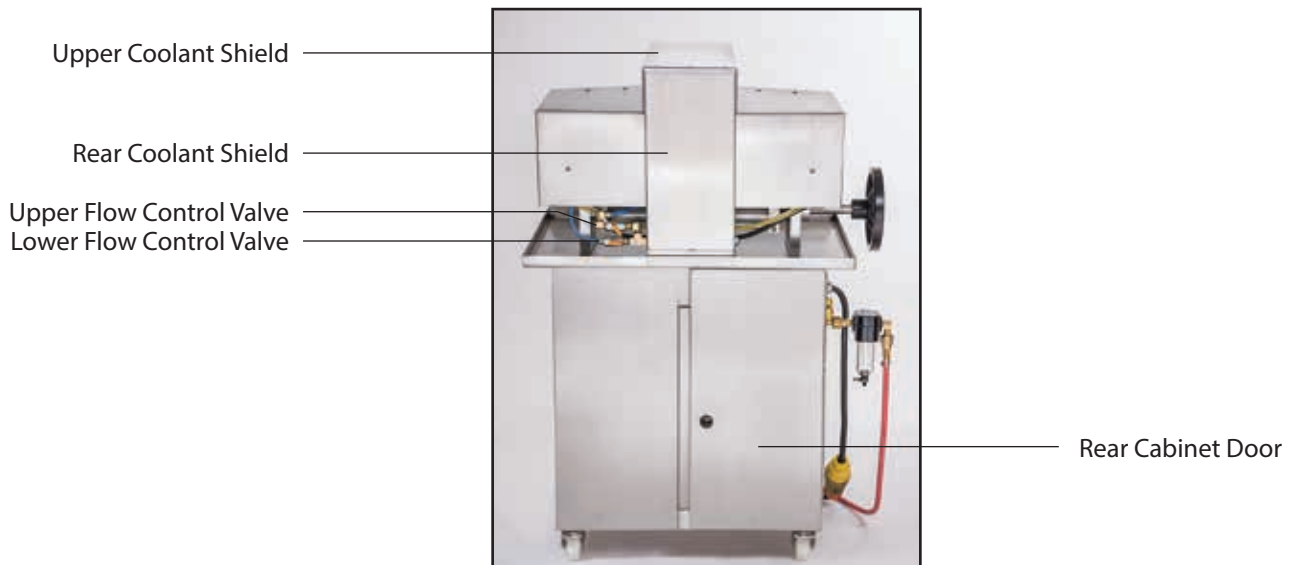


Fig. 3 Rear View

Tru Hone HG3 Hollow Grinder Requirements

ELECTRICAL

Access to 3 Phase Electrical Supply.

Voltage Requirements are 208V to 230V or 440V to 480V.

Amperage Requirements are 9 AMP with lower voltage or 4.5 AMP with higher voltage.

Wiring Requirements - 4 lead wire SOS-Type supply cable, #14 or #16 gauge.

AIR/HYDRAULICS

Air Pressure of not less than 80 PSI.

Air Volume requirement is minimal.

Quick Disconnect accessibility.

Air Lines are yellow.

Hydraulic Lines are clear.

COOLANT

Coolant System on the hollow grinder is self-contained recirculated water with USDA approved additive.

Coolant Lines are blue.

SET-UP

ELECTRICAL HOOK-UP

Test the power supply voltage and phase to be sure they meet the specifications for the hollow grinder. The specifications are listed inside the rear door.

Remove the small junction box cover located inside the rear cabinet to find 4 lead wires leading to the main power switch (see fig. 4).

Using a 4 lead wire for the power supply cord, strip back the cord insulation about 10".

Strip back the wire ends approximately 1".

Remove the cord connector cap, locking ring and rubber seal at the left side of the cabinet and slide them onto the power supply cord. Insert the cord wires through the cord connector into the junction box and tighten the cord connector cap (see fig. 1).

Connect the power supply cord wires to the junction box wires with wire nuts and replace the junction box cover. Connect the other end of the cord to the breaker box.

This completes the wiring hook up subject to checking for the PROPER ROTATION OF THE GRINDING WHEELS.

Control Box
Junction Box



Fig. 4

GRINDING WHEEL ROTATION

Inspect the grinding wheels to be sure they are clear of any obstructions and are not touching each other.

Turn the main power switch on (see fig. 1). The yellow light should come on.

Press the forward button (see fig. 2). The green light should come on and the grinding wheels should begin turning counterclockwise. If the grinding wheels are not turning counterclockwise, push the stop button off, turn the main power switch off and disconnect the power at the breaker box. Switch the two power leads in the hollow grinder junction box and repeat the previous steps in this section.

AIR/HYDRAULICS HOOK-UP

NOTE: Air is only required to operate the two semi-automatic diamond dressing units that true up the grinding wheels.

Attach the air/water separator provided with the hollow grinder to the quick disconnect nozzle at the left side of hollow grinder (see fig. 1).

Attach the air line to the air/water separator.

The air regulator inside the rear cabinet should be set at approximately 80 PSI and the air cut-off valve should be open (see fig. 34).

COOLANT PREPARATION

Remove the coolant tank located inside the front cabinet (see fig. 36). Set aside the filter tray and the pump (see fig. 37). Pour 2 cups of the grinding solution into the coolant tank and add water until the coolant tank is approximately three quarters full.

Hang the sock filter from the hook located on the front of the coolant down spout (see fig. 38). Place the pump back into the rear of the coolant tank and set the filter tray on top of the coolant tank (see fig 39).

Slide the coolant tank back into the front cabinet (see fig. 36). Make sure the sock filter is hanging straight with the bottom inside the filter tray. Close the front door.

The HG3 Hollow Grinder should be placed in a relatively level area to insure the proper recirculation of the coolant into the coolant tank.

SAFETY

Before using the HG3 Hollow Grinder be sure you are not wearing rings, watches, bracelets or loose hanging necklaces. Long sleeves should be rolled up and hair nets worn for long hair.

Safety glasses should be worn at all times while operating the HG3 Hollow Grinder.

PREPARING FOR OPERATION

See fig. 1, 2 and 3 for the location of these parts and switches.

Slide the stainless steel splash guard onto the front of the HG3 Hollow Grinder cabinet top tray.

Set the wheel guard into position. It may be necessary to move the wheel guard carriage away from the grinding wheels in order to set the wheel guard on the dowel pin. (Turn the wheel guard adjustment knob counterclockwise). The grinding wheels may also need to be moved apart. (Turn the hand wheel counterclockwise).

Position the upper coolant flare nozzle in the flare nozzle holder slot so that the coolant flows onto the front 1/4" of the grinding surface. Set the rear and upper coolant shields in place. Set the coolant flow control valves to the open position (see fig. 40).

Turn the main power switch on and press either the forward or reverse button to activate the grinding wheels. Knives may be ground with the wheel rotation in either direction. Turn the pump switch on.

Turn the hand wheel clockwise until you hear the grinding wheels just slightly touch each other.

CAUTION: Should the hand wheel become difficult to turn when attempting to bring the grinding wheels together, turning should NOT BE FORCED as damage may result.

The grinding wheels may be grinding against the wheel guard. If so, turn the wheel guard adjustment knob counterclockwise enough to allow clearance for the grinding wheel adjustment.

OR

The inside of the dresser frames may be pressing against the base of the wheel guard. If so, turn the wheel guard adjustment knob clockwise enough to allow the proper clearance for the grinding wheel adjustment.

When the grinding wheels are just slightly touching each other, turn the wheel guard adjustment knob clockwise until the wheel guard touches the grinding wheels and then back it up 1/2 turn counterclockwise so the grinding wheels do not rub the wheel guard.

GRINDING A KNIFE

See fig. 1, 2 and 3 for the location of these parts and switches.

Turn the main power switch on, press the forward or reverse button to activate the grinding wheels and turn the pump switch on.

Turn the hand wheel clockwise until you hear the grinding wheels slightly touch each other.

Turn the wheel guard adjustment knob clockwise until the wheel guard touches the grinding wheels and then turn the wheel guard adjustment knob 1/2 turn counterclockwise so the grinding wheels do not rub the wheel guard.

Direct the upper coolant flare nozzle so that the coolant flows onto the front 1/4" of the grinding surface.



Fig. 5



Fig. 6



Fig. 7

Place the knife on the grinding wheels with slight pressure as close to the heel of the knife as the wheel guard will allow (see fig. 5). Holding the knife level, pull it across the grinding wheels and increase the pressure gradually (see fig. 6). For knives with curved tips or curved blades, raise the handle to follow the curve as you draw the blade across the grinding wheels (see fig. 7).

When the tip of the knife blade is half way across the grinding surface, start back in with the knife and at the same time lower the handle. At the straight part of the blade continue in level with the knife blade and decrease the pressure against the grinding wheels. The width of the grind should be even on both sides of the blade. If it is not, lean the blade or put more pressure toward the side of the knife with the narrowest grind while grinding the knife. Continue grinding until the knife blade is ground to the desired taper or fits into the correct knife gauge slot (see fig. 43). A properly tapered blade should fit into the slot but not touch the bottom of the slot. If the blade edge touches the bottom of the slot, the blade has been tapered too thin. If the blade does not fit into the slot, it needs more tapering on the HG3 Hollow Grinder.

DRESSING GRINDING WHEELS

1. Before dressing the grinding wheels, visually inspect the end of each diamond dresser bit to be sure it is clear of the grinding wheel and in good condition (see fig. 8). If the dresser ram assembly is turned in too far clockwise and the end of the diamond dresser bit does not clear the grinding wheel (see fig. 9), turn the dresser advancement knob counterclockwise (see fig. 10) until the end of the diamond dresser bit is clear of the grinding wheel (see fig. 8).



Fig. 8



Fig. 9

2. If the machine is not on, turn the main power switch on, and press either the forward or reverse direction button which activates the motors and then turn the pump switch on.

3. Press and hold in the dresser button next to the direction button that is on (see fig. 11). This cycles the dresser assembly to the center. CAUTION: Do not dress the grinding wheels in this direction.

4. Continue holding in the dresser button until you turn the dresser advancement knob 1 click clockwise (see fig. 12). This moves the diamond dresser bit into position for dressing the grinding wheel one time.



Fig. 10



Fig. 11



Fig. 12

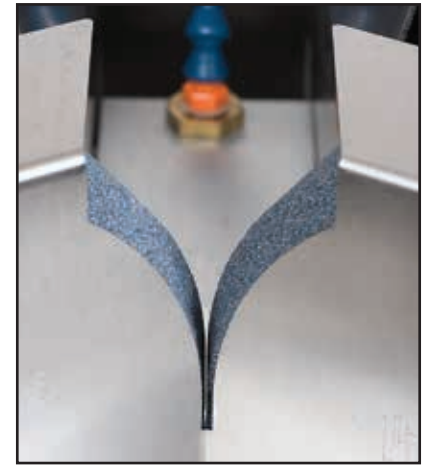


Fig. 13

5. Release the dresser button. The diamond dresser bit dresses the grinding wheel as it returns to the idle position. If the diamond dresser bit does not dress (does not touch) the grinding wheel or does not sound smooth (chatters), return to step 3. To keep the grinding wheels even with each other, it is important to dress each grinding wheel the same number of clicks on the dresser advancement knob.

6. On the last dressing pass, the diamond dresser bit should sound like it is making a smooth cut across the entire grinding surface. To dress the other grinding wheel, push the stop button off. Press the other direction button and repeat dressing steps 3 through 5.

7. After both grinding wheels are dressed, the dots on the dresser advancement knobs should be at the same position. If the dots are not lined up, continue dressing one side until they are at the same position. Turn the hand wheel clockwise until you hear the grinding wheels just slightly touch each other.

8. Turn the wheel guard adjustment knob clockwise until you hear the wheel guard touch the grinding wheels and then back it up 1/2 turn counterclockwise so the grinding wheels do not rub the wheel guard.

9. Dress the grinding wheels often enough so that it takes only one or two clicks per dresser advancement knob to dress each grinding wheel.

10. Inspect the wheel guard slot to see that the grinding wheels meet in the center of the wheel guard slot (see fig. 13). If the grinding wheels meet to the left of the center of the wheel guard slot, dress the right grinding wheel 12 clicks (one complete turn clockwise) of the right dresser advancement knob. If the grinding wheels meet to the right of center of the wheel guard slot, dress the left grinding wheel 12 clicks (one complete turn clockwise) of the left dresser advancement knob.

ROTATING DIAMOND DRESSER BITS

Periodically the diamond dresser bits need to be turned to keep a sharp edge of the diamond next to the grinding wheel.

Turn the main power switch on, and press the forward button (see fig. 1 & 2).

Press and hold in the left dresser button next to the forward button (see fig. 11). This cycles the dresser assembly to the center.

Continue holding in the left dresser button until you turn the diamond dresser bit approximately 1/4 turn clockwise (see fig. 14).

Release the dresser button and repeat the previous steps for the reverse-right diamond dresser bit.

After both diamond dresser bits have been rotated, the dots should be at the same position.



Fig. 14



Fig. 15



Fig. 16

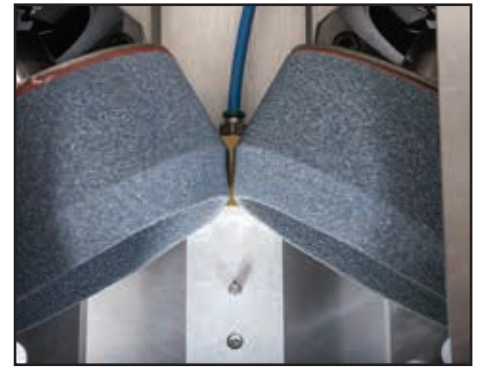


Fig. 17

CHAMFERING GRINDING WHEELS

Chamfering is necessary when the front edges of the grinding wheels become uneven or chipped.

Turn the main power switch on, and press the forward button. The left grinding wheel is now ready to be chamfered. **CAUTION:** Do not chamfer the right grinding wheel while the HG3 Hollow Grinder is running in the forward direction.

Holding the dressing stick down at approximately 45 degrees (see fig. 15), press the end of the dressing stick against the front edge of the left grinding wheel until the chamfering is completed.

To chamfer the right grinding wheel, push the stop button off, and press the reverse button. The right grinding wheel is now ready to be chamfered. **CAUTION:** Do not chamfer the left grinding wheel while the HG3 Hollow Grinder is running in the reverse direction.

Holding the dressing stick down at approximately 45 degrees (see fig. 16), press the end of the dressing stick against the front edge of the right grinding wheel until the chamfering is completed.

Check the front edge of the grinding wheels to see that they are even with each other (see fig. 17).

REPLACING GRINDING WHEELS

Turn off all of the switches (see fig. 1 & 2). The pump switch and the stop button front center and the main power switch on the left side. Remove the upper coolant shield.

Turn the hand wheel counterclockwise until grinding wheels are at maximum separation. Lift and remove the wheel guard (see fig. 18).

CAUTION: Both of the dresser ram assemblies are extended in and need to be turned back (see fig. 19). Turn back both dresser advancement knobs counterclockwise until the end of each dresser ram assembly is approximately 1/8" (.32cm) from being flush with the slide shield (see fig. 20).

Hold one grinding wheel and using a T-27 Torx wrench remove the four flat head Torx screws that fasten the grinding wheel to the adaptor hub (see fig. 21). Remove the old grinding wheel. Repeat the procedure for removing the other grinding wheel.

Clean the grinding wheel adaptor hubs of any grinding dust.

Slide the new grinding wheels onto the grinding wheel adaptor hubs and fasten each with four flat head Torx screws (see fig. 22).



Fig. 18



Fig. 19



Fig. 20



Fig. 21



Fig. 22

Clean the bottom slot of the wheel guard and the area where it is positioned on the wheel guard carriage.

Turn the wheel guard knob counterclockwise enough to reposition the wheel guard on the dowel pin in front of the new grinding wheels. Be sure the wheel guard is not touching the grinding wheels. If it is touching the grinding wheels, continue turning the wheel guard adjustment knob counterclockwise until the wheel guard is clear of the grinding wheels.

Turn the hand wheel clockwise until the grinding wheels are almost touching each other. NOTE: To allow for this it may be necessary to further turn the wheel guard adjustment knob counterclockwise.

See the steps for dressing the grinding wheels on page 8 to finish dressing and setting the HG3 Hollow Grinder wheels.

REPLACING A DIAMOND DRESSER BIT

Turn off all of the power switches.

Disconnect the air line or shut off the air cut-off valve located inside the rear cabinet (see fig. 35).

On the dresser ram assembly for which the diamond dresser bit is being changed, turn back the dresser advancement knob four (4) or more full turns counterclockwise.

NOTE: The new diamond dresser bit will extend farther in because of the new condition of the diamond. It is important to turn back the dresser ram assembly before changing the diamond dresser bit. At the front of the cover, remove the 4 phillips truss 1/4" screws (see fig. 23) and the small dresser cover plate to access the desired dresser ram assembly (see fig. 24).

With a 3/16" hex key wrench remove the socket head cap screw located just below the dresser ram assembly (see fig. 25). Pull out the dresser ram assembly (see fig. 26).

Wipe clean the dresser ram assembly and the inside of the dresser saddle which holds the dresser ram assembly.



Fig. 23



Fig. 24



Fig. 25

Using a 1/16" hex key wrench loosen the spring plunger screw that holds the diamond dresser bit (see fig. 27) enough to slide out the used diamond dresser bit (see fig. 28).

Remove the knob from the used diamond dresser bit shaft and tighten it onto the end of the new diamond dresser bit shaft (see fig. 29). Clean the diamond dresser bit hole in the dresser ram assembly. Fill the groove that is cut into the diamond dresser bit shaft with grease and grease the shaft.

Slide the diamond dresser bit into the dresser ram assembly until the groove is past the spring plunger (see fig. 30). Tighten the spring plunger screw until it resists movement of the diamond dresser bit shaft. Slowly pull the diamond dresser bit shaft back until the spring plunger drops into the groove. Continue tightening the spring plunger screw until it is tight and then loosen it 1/4 turn.

Grease the dresser ram assembly and the inside of the dresser saddle. Slide the dresser ram assembly back into the dresser saddle (see fig. 26) and tighten with the socket head cap screw. NOTE: Be sure that the dresser ram knob is setting straight on the end of the ram. If it is not, push up on the dresser ram key nut before tightening the socket head cap screw.

Reposition the dresser cover plate and fasten with 4 phillips truss head screws.

Reconnect the air line or open the air cut-off valve, turn on the main power switch and press the direction button for the dresser bit that was changed.

Press the dresser button for the dresser bit that was changed and turn the dresser advancement knob clockwise one click at a time while cycling the diamond dresser bit across the running grinding wheel. As soon as the new diamond dresser bit dresses the grinding wheel, line up the dresser advancement knob dots by dressing either the left or right grinding wheel.



Fig. 26



Fig. 27



Fig. 28



Fig. 29



Fig. 30

HYDRAULIC DRESSING SYSTEM MAINTENANCE

The hydraulic fluid reservoirs for the dressing system hydraulics are located inside the rear cabinet (see fig. 31). The hydraulic fluid levels should be checked weekly. The hydraulic lines are clear in color.

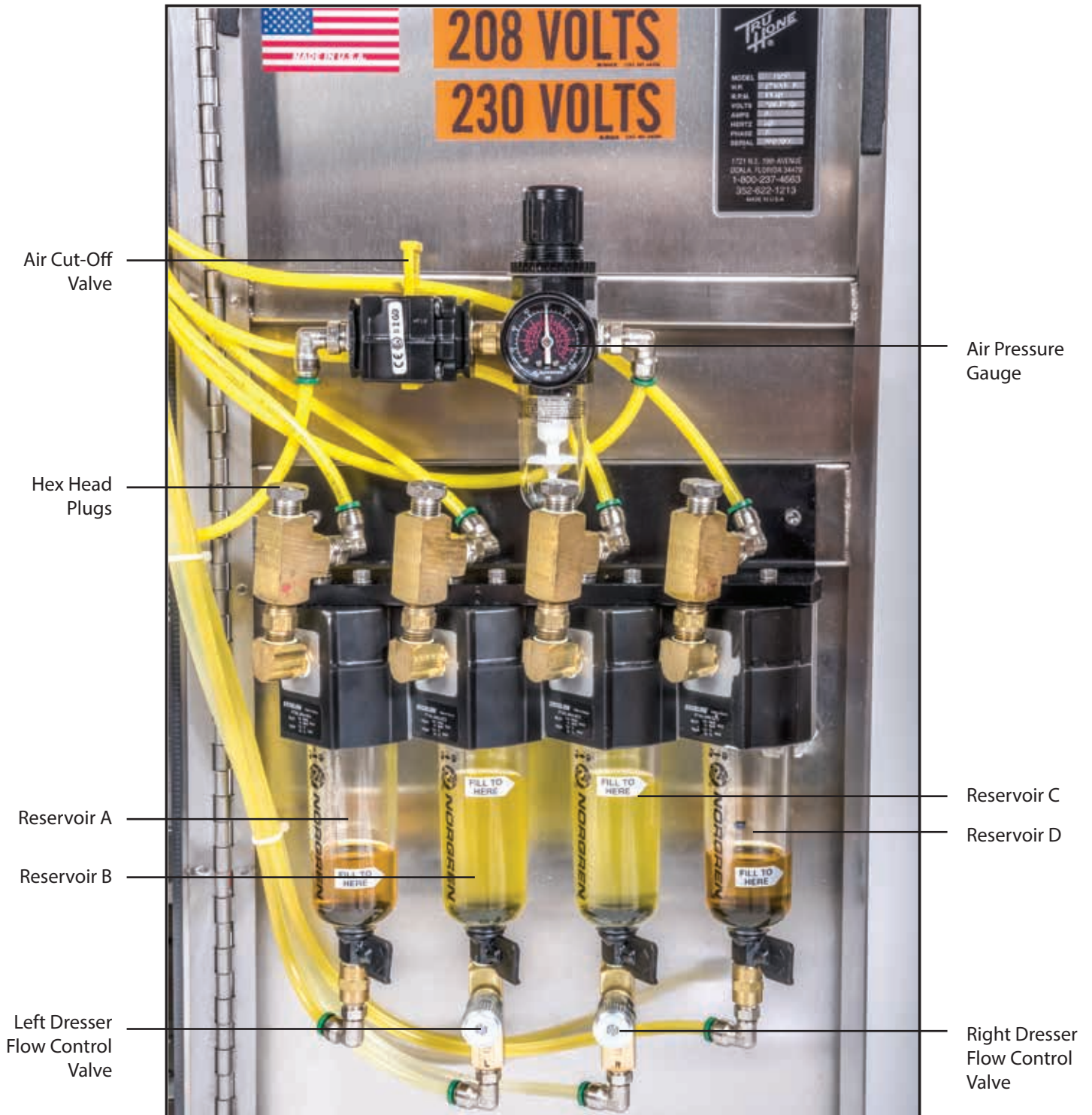


Fig. 31

ADDING HYDRAULIC FLUID

If any of the fluid levels are below the full line, disconnect the air line from the HG3 Hollow Grinder or shut off the air cut-off valve (see fig. 35). Remove the hex head plug on top of the appropriate reservoir (see fig. 32) and fill to the full mark with hydraulic fluid. Do not overfill the fluid levels. Replace the hex head plugs that were removed for filling. Reconnect the air line or turn on the air cut-off valve.



Fig. 32

ADJUSTING DRESSING CYCLES

The dressing cycle is the time it takes for a dresser assembly to return from the center position to the idle position. The dressing cycles are present at 10 seconds but may be slower in cooler environments and faster in warmer environments. Adjust the dressing cycle according to the environment in which the HG3 Hollow Grinder is being operated.

LEFT DRESSING CYCLE

To adjust the left dressing cycle, turn the air on, turn the main power switch on (see fig. 1), and press the forward button. This activates the motors and the left dressing system. Push in and hold the left dresser button next to the forward button. This cycles the left dresser assembly to the center. Release the left dresser button. The time for the left dresser assembly to return to the idle position should be approximately 10 seconds. If the dressing cycle is too slow or too fast, adjust it with the left dresser flow control valve (see fig. 31). Turn the valve clockwise to slow down the dressing cycle or counterclockwise to speed it up.

RIGHT DRESSING CYCLE

To adjust the right dressing cycle, turn the air on, turn the main power switch on (see fig. 1), and press the reverse button. This activates the motors and the right dressing system. Push in and hold the right dresser button next to the reverse button. This cycles the right dresser assembly to the center. Release the right dresser button. The time for the right dresser assembly to return to the idle position should be approximately 10 seconds. If the dressing cycle is too slow or too fast, adjust it with the right dresser flow control valve (see fig. 31). Turn the valve clockwise to slow down the dressing cycle or counterclockwise to speed it up.

AIR/WATER SEPARATOR

The air/water separator located on the left side of the HG3 Hollow Grinder next to the main power switch (see fig. 33) removes water in the air lines that will contaminate the hydraulic system. An air/water separator should always be used on the air line. When water accumulates in the air/water separator it must be manually released by turning the valve at the bottom of the air/water separator.



Fig. 33

AIR PRESSURE GAUGE

The air pressure gauge located inside the rear cabinet is preset at approximately 80 PSI (see fig. 34). If an adjustment is required, read the directions on the very top of the pressure gauge on how to release the locked position and adjust the air pressure. After the adjustment has been made return it to the locked position.

AIR CUT-OFF VALVE

The air cut-off valve located inside the rear cabinet must be open (lever up and the air gauge reading approximately 80 PSI) in order to operate the hydraulic dressing system (see fig. 34).

The air cut-off valve must be closed (lever down and the air gauge reading zero) whenever adding hydraulic fluid to the hydraulic dressing system or disconnecting any hydraulic lines (see fig. 35).



Fig. 34



Fig. 35

COOLANT TANK & FILTERS

The coolant tank and filters located inside the front cabinet (see fig. 36) should be checked weekly to be sure the coolant is clean and at the proper level and the filters are clean.

ADDING COOLANT

If the coolant is clean but the level is down, add grinding solution and water (1/4 cup grinding solution: 1 gallon water) until the tank is approximately three quarters full.



Fig. 36

CHANGING COOLANT

Remove the coolant tank located inside the front cabinet. Set aside the filter tray and pump (see fig. 37). Pour out the old coolant and rinse the coolant tank. Pour 2 cups of grinding solution into the coolant tank and add water until the coolant tank is approximately three quarters full. Clean or replace the tray and sock filters. Return the tray filter to the filter tray. Hang the sock filter from the hook located on the side of the coolant return spout (see fig. 38). Place the pump back into rear of the coolant tank and set the filter tray on top of the coolant tank (see fig. 39). Slide the coolant tank into the front cabinet (see fig. 36). Make sure the sock filter is hanging straight with the bottom inside the filter tray. Close the front door.



Fig. 37



Fig. 38



Fig. 39

COOLANT FLOW CONTROL VALVES

The coolant flow control valves (see fig. 40) control the flow of the coolant to the grinding wheels. The valves are closed in the six o'clock position, and open in the three o'clock position (see fig. 41). Use the between positions to increase or decrease the coolant flow. The lower flow control valve regulates the coolant flow to the lower coolant fountain and should be set in the open position (three o'clock). The upper control valve regulates the coolant flow to the upper coolant nozzle and should be open enough to allow the desired coolant flow onto the top of the grinding wheels.

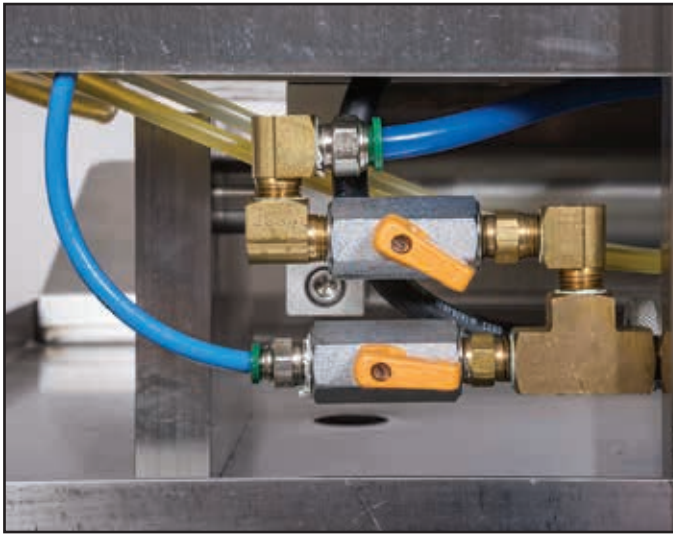


Fig. 40

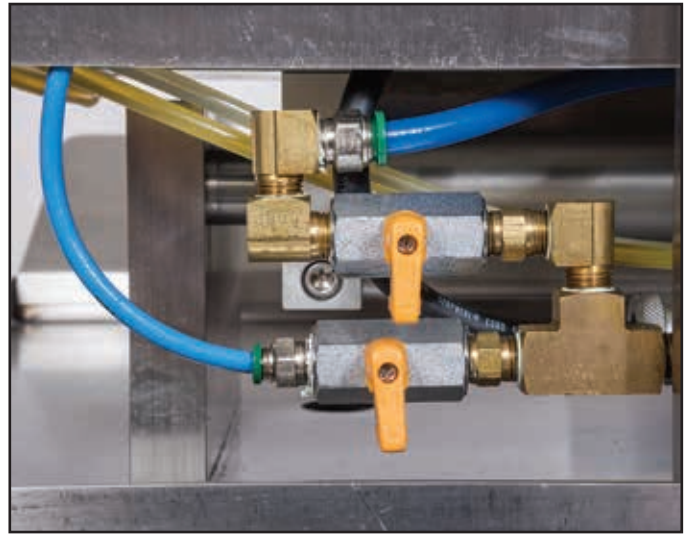


Fig. 41

110 VOLT OUTLET BOX FOR PUMP

The 110 volt outlet box is located inside the rear cabinet just to the left of the control box (see fig. 42). The top outlet is for the pump and is activated by the pump switch. The lower outlet is a standard 110V outlet and is activated by the main power switch.

CONTROL BOX / TRANSFORMER

Reset buttons are located inside the rear cabinet in the control box (see fig. 42). They are labeled "reset". In the event there is a loss of power to the motors, push the reset buttons to regain motor power. Two bus type fuses are located inside the control box for protection of the transformer. If an overload is placed on the transformer these fuses will blow. The transformer also supplies 110V power for the switches in the control box. Replace the fuses when necessary.

110V Outlet

Control Box

Transformer



Fig. 42

KNIFE GAUGE

The knife gauge measures the thickness of the taper of a knife blade (see fig. 43). After tapering a knife on the HG3 Hollow Grinder, draw the edge of the blade through the desired slot on the knife gauge (either .023" or .020"). (The .016" slot is a "No Go". If the knife edge drops freely into this slot the taper of the edge is too thin). A properly tapered blade should fit into the .023" or .020" slot but not touch the bottom of the slot. If the blade edge touches the bottom of the slot, the blade has been tapered too thin. If the blade does not fit into the slot, it needs more tapering on the HG3 Hollow Grinder.



Fig. 43

CLEANING

When grinding is completed for the day, it is recommended that the HG3 Hollow Grinder be rinsed down.

Push the stop button off so that only the pump is running. NOTE: Grinding wheels should not be turning. Set the coolant shields aside and using the upper coolant flare nozzle on the jointed line, rinse and wipe the grinding area of the HG3 Hollow Grinder (see fig. 44). After rinsing, reposition the upper coolant flare nozzle so that the coolant flows onto the front 1/4" of the grinding surface. Clean the coolant shields and set them back in place.

After most of the grinding coolant has drained back into the coolant tank, wipe up the grindings from the cabinet top tray.

Monthly or quarterly a more thorough cleaning is necessary.

Turn off the HG3 Hollow Grinder and disconnect the air lines or shut off the air cut-off valve. Remove the small dresser cover plates that protect the dresser ram assemblies and then the left and right main covers.

Clean as necessary.



Fig. 44

PREVENTATIVE MAINTENANCE SCHEDULE AND RECOMMENDED STOCK ITEMS

Daily	HG3	HR8	HCA	Preventative Maintenance
	✓	✓	✓	Clean machines
	✓	✓		Inspect coolant level
			✓	Add water to sponge in HWD cover
Weekly				
	✓	✓		Rotate diamond dresser bits ¼ turn
	✓	✓		Clean sock filter & tray filter
			✓	Clean or replace wet tray sponge
	✓	✓		Change water & additive (3 cups additive/Coolant Tank of water)
	✓	✓		Drain air/water separator
	✓	✓	✓	Inspect grinding & honing wheels
Monthly				
	✓	✓		Replace sock filter
	✓	✓		Inspect diamond dresser bits
	✓	✓		Inspect hydraulic oil levels
Quarterly				
	✓	✓		Replace tray filter
	✓	✓		Apply anti-seize to dresser ram assemblies & dresser slide rods
Annually				
	✓	✓		Inspect motor bearings
	✓	✓		Remove main covers & clean as necessary
Quantity	Item #		Recommended Stock Item Description	
1 set	HG37122		Hollow Grinder Wheels Complete Set (Standard 54 grit)	
1 set	HR87125		Honing Wheels Complete Set (Standard 220 grit)	
1 set	HWD		Honing/Polishing Wheels Complete Set (1000 grit)	
4 ea.	TH1716		Sponge for HWD Cover	
1 ea.	CLD6		Cleaner For 1000 Grit Honing Wheels 6 OZ	
4 ea.	CLST		Cleaning/Dressing Stick	
2 ea.	HGH7201		Filter, Sock	
2 ea.	HGH7211		Filter, Tray	
1 ea.	HGH7112		Additive, Grinding Coolant - 5 gallons - USDA Approved	
2 ea.	HGH1304		Dresser Bit, Diamond 6" (¼ Carat)	
3 ea.	HGH4212		Bearing, Motor (Small) (Front & Rear HR8) (Rear HG3)	
1 ea.	HG34213		Bearing, Motor (Large) (Front HG3)	
1 ea.	HG34201		Motor (HG3 Hollow Grinder)	
1 ea.	HR84201		Motor (HR8 Honer)	

NOTES

Therefore put on the full armor of God, so that when the day of evil comes, you may be able to stand your ground, and after you have done everything, to stand. Stand firm then, with the belt of truth buckled around your waist, with the breastplate of righteousness in place, and with your feet fitted with the readiness that comes from the gospel of peace. In addition to all this, take up the shield of faith, with which you can extinguish all the flaming arrows of the evil one. Take the helmet of salvation and the sword of the Spirit which is the word of God.

Ephesians 6:13-17



*...ends the
“Stone Age”
of Knife Sharpening.*

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