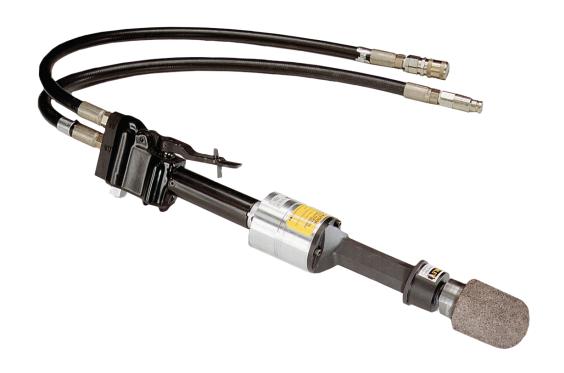


# **HG60**

# HYDRAULIC BULL NOSE GRINDER



# SAFETY, OPERATION AND MAINTENANCE USER MANUAL







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# **IMPORTANT**

To fill out a Product Warranty Recording form, and for information on your warranty, visit Stanleyhydraulic.com and select the Warranty tab. (**NOTE:** The warranty recording form must be submitted to validate the warranty).

SERVICING: This manual contains safety, operation, and routine maintenance instructions. Stanley Hydraulic Tools recommends that servicing of hydraulic tools, other than routine maintenance, must be performed by an authorized and certified dealer. Please read the following warning.



SERIOUS INJURY OR DEATH COULD RESULT FROM THE IMPROPER REPAIR OR SERVICE OF THIS TOOL.

REPAIRS AND / OR SERVICE TO THIS TOOL MUST ONLY BE DONE BY AN AUTHORIZED AND CERTIFIED DEALER.

For the nearest authorized and certified dealer, call Stanley Hydraulic Tools at the number listed on the back of this manual and ask for a Customer Service Representative.



# **SAFETY SYMBOLS**

Safety symbols and signal words, as shown below, are used to emphasize all operator, maintenance and repair actions which, if not strictly followed, could result in a life-threatening situation, bodily injury or damage to equipment.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

This safety alert and signal word indicate an imminently hazardous situation which, if not avoided, <u>will</u> result in <u>death or serious injury</u>.

This safety alert and signal word indicate a potentially hazardous situation which, if not avoided, <u>could</u> result in <u>death or serious injury</u>.

This safety alert and signal word indicate a potentially hazardous situation which, if not avoided, <u>could</u> result in <u>death or serious injury</u>.

This signal word indicates a potentially hazardous situation which, if not avoided, <u>may</u> result in <u>property damage</u>.

This signal word indicates a situation which, if not avoided, <u>will</u> result in <u>damage</u> to the equipment.

This signal word indicates a situation which, if not avoided, <u>may</u> result in <u>damage to the equipment</u>.

IMPORTANT

Always observe safety symbols. They are included for your safety and for the protection of the tool.

# **LOCAL SAFETY REGULATIONS**

Enter any local safety regulations here. nance personnel.	Keep these instructions in an area accessible to the operator and mainte-



# **SAFETY PRECAUTIONS**

Tool operators and maintenance personnel must always comply with the safety precautions given in this manual and on the stickers and tags attached to the tool and hose.

These safety precautions are given for your safety. Review them carefully before operating the tool and before performing general maintenance or repairs.

Supervising personnel should develop additional precautions relating to the specific work area and local safety regulations. If so, place the added precautions in the space provided in this manual.

The model HG60 Hydraulic Grinder will provide safe and dependable service if operated in accordance with the instructions given in this manual. Read and understand this manual and any stickers and tags attached to the grinder and hose before operation. Failure to do so could result in personal injury or equipment damage.







- The operator must start in a work area without bystanders. Flying debris can cause serious injury.
- Do not operate the tool unless thoroughly trained or under the supervision of an instructor. Establish a training program for all operators to ensure safe operation.
- Always wear safety equipment such as goggles, ear and head protection, and safety shoes at all times when operating the tool. Use gloves and aprons when necessary.
- The operator must be familiar with all prohibited work areas such as excessive slopes and dangerous terrain conditions.
- Do not inspect, clean or replace the grinding wheel while the hydraulic power source is connected. Do not inspect or clean the tool while the hydraulic power source is connected. Accidental engagement of the tool can cause serious injury.
- Always connect hoses to the tool hose couplers before energizing the hydraulic power source. Be sure all hose connections are tight and are in good condition.
- Do not operate the tool at oil temperatures above 140 °F/60 °C. Operation at higher temperatures can cause higher than normal temperatures at the tool which can result in operator discomfort.

- Do not operate a damaged, improperly adjusted, or incompletely assembled grinder.
- Never wear loose clothing that can get entangled in the working parts of the tool.
- Keep all parts of your body away from the rotating grinding stone. Long hair or loose clothing can become drawn into rotating components.
- Keep the wheel off all surfaces when starting the grinder.
- Do not use a grinding stone that is cracked, chipped or otherwise damaged. Always inspect stones for possible damage before installation or use.
- Always use stones that conform to the specifications given in the OPERATION section of this manual.
- Do not reverse grinding stone rotation direction by changing fluid flow direction.
- Do not move the tool until the stone has stopped rotating. Release the trigger if the power supply has been interrupted.
- To avoid personal injury or equipment damage, all tool repair, maintenance and service must only be performed by authorized and properly trained personnel.
- If the material being ground creates an emission of dust and fumes, use personal protective devices.
- Never cock, jam or wedge the grinding stone during operation.
- Never cause sparks in the vicinity of flammable materials.
- Eye injury, and cutting or severing of body parts is possible if proper procedures are not followed.
- Do not carry the tool by the hoses.
- Warning: Use of this tool on certain materials during demolition could generate dust potentially containing a variety of hazardous substances such as asbestos, silica or lead. Inhalation of dust containing these or other hazardous substances could result in serious injury, cancer or death. Protect yourself and those around you. Research and understand the materials you are cutting. Follow correct safety procedures and comply with all applicable national, state or provisional health and safety regulations relating to them, including, if appropriate arranging for the safe disposal of the materials by a qualified person.



# **SAFETY PRECAUTIONS**

# **GRINDING WHEEL SAFETY**

- Ensure that the grinding stone is correctly mounted and tightened before use.
- Operate the grinder at "no load" for 30 seconds in a safe position and ensure there is no vibration or other defects detected. If considerable vibration or other defects are detected, stop operation of the tool immediately and determine the cause. Do not use the tool until the defect is corrected.
- If the grinder is dropped with an abrasive stone installed, the stone should be examined thoroughly before use.

- Only use abrasive stone that comply with ANSI B7.1/ISO 525, 603.
- Check that the maximum rpm operating speed of the abrasive stone is equal to or greater than the rated shaft speed of the grinder.
- Ensure that the grinding stone dimensions are compatible with the grinder and that the grinding stone fits the shaft.
- Ensure that the thread type and size of the grinding stone exactly matches the thread type and size of the shaft.



# **TOOL STICKERS & TAGS**



### CAUTION **PROTECT YOUR EYES WEAR SAFETY GOGGLES**

- Do not use damaged wheels.
- 2. Use only 5/8-11 cone and plug wheels per the requirements of ANSI 87.1 or 525.603.
- 3. Inspect mounting flange for damage after wheel breakage on the machine.
- 4. Maximum wheel speed is 6000 RPM.

26229

Wear Safety Goggles Sticker



7-10 GPM / 26-34 LPM DO NOT EXCEED 2000 PSI / 140 BAR

DO NOT EXCEED SPECIFIED FLOWOR PRESSURE USE CLOSED-CENTER TOOL ON CLOSED-CENTER SYSTEM. USE OPEN-CENTER TOOL ON OFFI-CENTER AND TO THE OWNER OF THE OWNER OF THE OWNER OFFI OWNER OW

03787 **GPM Sticker**  **STANLEY** 

Stanley Hydraulic Tools 3810 SE Naef Road Milwaukie, OR 97267

MODEL NO HG60

7-10 GPM / 26-38 LPM 2000 PSI/ 140 B AR

26212 Name Tag



RAILROAD HELP DESK

1-800-549-0517 FOR CUSTOMER SERVICE OR **TECHNICAL QUESTIONS** 

25610

Railroad Help Desk Sticker

Stanley Hydraulic tools Division of the Stanley Works 3810 SF Naef Road Milwaukie, OR 97267

05153 Stanley Sticker

### NOTE:

THE INFORMATION LISTED ON THE STICKERS SHOWN. MUST BE LEGIBLE AT ALL TIMES.

REPLACE DECALS IF THEY BECOME WORN OR DAMAGED. REPLACEMENTS ARE AVAILABLE FROM YOUR LOCAL STANLEY DISTRIBUTOR.

The safety tag (P/N 15875) at right is attached to the tool when shipped from the factory. Read and understand the safety instructions listed on this tag before removal. We suggest you retain this tag and attach it to the tool when not in use.

### DANGER

FAILURE TO USE HYDRAULIC HOSE LABELED AND CERTIFIED AS NON-CONDUCTIVE WHEN USING HYDRAULIC TOOLS ON OR NEAR ELECTRICAL LINES MAY RESULT IN DEATH OR SERIOUS INJURY.

BEFORE USING HOSE **LABELED AND CERTIFIED AS NON CONDUCTIVE** ON OR NEAR ELECTRIC LINES BE SURE THE COMDUCTIVE ON OR NEAR ELECTRIC LINES BE SURE THE HOSE IS MAINTAINED AS NON-CONDUCTIVE. THE HOSE SHOULD BE REGULARLY TESTED FOR ELECTRIC CURRENT LEAKAGE IN ACCORDANCE WITH YOUR SAFETY DEPARTMENT INSTRUCTIONS.

- A HYDRAULIC LEAK OR BURST MAY CAUSE OIL INJECTION INTO THE BODY OR CAUSE OTHER SEVERE PERSONAL INJURY.
- Do NOT EXCEED SPECIFIED FLOW AND PRESSURE FOR THIS TOOL. EXCESS FLOW OR PRESSURE MAY CAUSE A LEAK OR BURST. DO NOT EXCEED RATED WORKING PRESSURE OF HYDRAULIC HOSE USED WITH THIS TOOL. EXCESS PRESSURE MAY CAUSE A LEAK OR BURST.
- CHECK TOOL HOSE COUPLERS AND CONNECTORS DAILY FOR LEAKS. **DO NOT** FEEL FOR LEAKS WITH YOUR HANDS. CONTACT WITH A LEAK MAY RESULT IN SEVERE PERSONAL INJURY.

### IMPORTANT

READ OPERATION MANUAL AND SAFETY INSTRUCTIONS FOR THIS TOOL BEFORE USING IT.

USE ONLY PARTS AND REPAIR PROCEDURES APPROVED BY STANLEY AND DESCRIBED IN THE **OPERATION MANUAL.** 

TAG TO BE REMOVED ONLY BY TOOL OPERATOR

SEE OTHER SIDE

### DANGER

- D. DO NOT LIFT OR CARRY TOOL BY THE HOSES. DO NOT ABUSE HOSE. DO NOT USE KINKED, TORN OR DAMAGED HOSE.

  MAKE SURE HYDRAULD HOSES ARE PROPERLY CONMECTED TO THE TOOL BEFORE PRESSURING SYSTEM. SYSTEM PRESSURE HOSE MUST ALWAYS BE CONNECTED TO TOOL "IN" PORT. SYSTEM RETURN HOSE MUST ALWAYS BE CONNECTED TO TOOL "OUT" PORT. SYSTEM METURN HOSE MUST ALWAYS BE CONNECTED TO TOOL "OUT" PORT. REVERSING CONNECTIONS MAY CAUSE REVERSE PERSONAL INJURY.
- PERSONAL INJURY.

  DO NOT CONNECT OPEN-CENTER TOOLS TO CLOSED-CENTER HYDRAULIC SYSTEMS. THIS MAY RESULT IN LOSS OF OTHER HYDRAULIC FUNCTIONS POWERED BY THE SAME SYSTEM AND/OR SEVERE PERSONAL INJURY.
- BYSTANDERS MAY BE INJURED IN YOUR WORK AREA.
  KEEP BYSTANDERS CLEAR OF YOUR WORK AREA.
- WEAR HEARING, EYE, FOOT, HAND AND HEAD PROTECTION.
- TO AVOID PERSONAL INJURY OR EQUIPMENT DAMAGE, ALL TOOL REPAIR MAINTENANCE AND SERVICE MUST ONLY BE PERFORMED BY AUTHORIZED AND PROPERLY TRAINED PERSONNEL.

### IMPORTANT

READ OPERATION MANUAL AND SAFETY INSTRUCTIONS FOR THIS TOOL BEFORE USING IT.

USE ONLY PARTS AND REPAIR PROCEDURES APPROVED BY STANLEY AND DESCRIBED IN THE **OPERATION MANUAL.** 

TAG TO BE REMOVED ONLY BY TOOL OPERATOR

SEE OTHER SIDE

SAFETY TAG P/N 15875 (Shown smaller then actual size)



# **HOSE TYPES**

The rated working pressure of the hydraulic hose must be equal to or higher than the relief valve setting on the hydraulic system. There are three types of hydraulic hose that meet this requirement and are authorized for use with Stanley Hydraulic Tools. They are:

**Certified non-conductive** — constructed of thermoplastic or synthetic rubber inner tube, synthetic fiber braid reinforcement, and weather resistant thermoplastic or synthetic rubber cover. Hose labeled **certified non-conductive** is the only hose authorized for use near electrical conductors.

**Wire-braided** (conductive) — constructed of synthetic rubber inner tube, single or double wire braid reinforcement, and weather resistant synthetic rubber cover. *This hose is conductive and must never be used near electrical conductors*.

**Fabric-braided** (not certified or labeled non-conductive) — constructed of thermoplastic or synthetic rubber inner tube, synthetic fiber braid reinforcement, and weather resistant thermoplastic or synthetic rubber cover. *This hose is not certified non-conductive* and must never be used near electrical conductors.

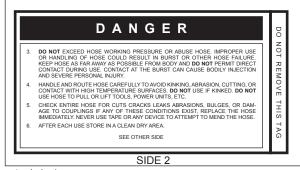
# **HOSE SAFETY TAGS**

To help ensure your safety, the following DANGER tags are attached to all hose purchased from Stanley Hydraulic Tools. DO NOT REMOVE THESE TAGS.

If the information on a tag is illegible because of wear or damage, replace the tag immediately. A new tag may be obtained from your Stanley Distributor.

### THE TAG SHOWN BELOW IS ATTACHED TO "CERTIFIED NON-CONDUCTIVE" HOSE





(Shown smaller than actual size)

### THE TAG SHOWN BELOW IS ATTACHED TO "CONDUCTIVE" HOSE.





(Shown smaller than actual size)



# **HOSE RECOMMENDATIONS**

# **Fool to Hydraulic Circuit Hose** Recommendations

lions are intended to keep return line pressure minimum hose diameters for various hose The chart to the right shows recommended engths based on gallons per minute (gpm)/ (back pressure) to a minimum acceptable leviters per minute (lpm). These recommendael to ensure maximum tool performance. This chart is intended to be used for hydraulic draulic Tools tool operating requirements and tool applications only based on Stanley Hyshould not be used for any other applications.

All hydraulic hose must have at least a rated minimum working pressure equal to the maximum hydraulic system relief valve setting.

All hydraulic hose must meet or exceed specifications as set forth by SAE J517.

Oil	Oil Flow	Hose	Hose Lengths	Inside D	Inside Diameter	USE	Min. Workir	Min. Working Pressure
GPM	LPM	FEET	METERS	INCH	MM	(Press/Return)	PSI	BAR
		Certified No	on-Conductive	Hose - Fibe	r Braid - for	Certified Non-Conductive Hose - Fiber Braid - for Utility Bucket Trucks	Trucks	
4-9	15-34	up to 10	up to 3	3/8	10	Both	2250	155
	Conducti	ve Hose - Wire	<b>Braid or Fiber</b>	Braid -DO	NOT USE NE	Conductive Hose - Wire Braid or Fiber Braid -DO NOT USE NEAR ELECTRICAL CONDUCTORS	AL CONDUCT	ORS
4-6	15-23	up to 25	up to 7.5	3/8	10	Both	2500	175
4-6	15-23	26-100	7.5-30	1/2	13	Both	2500	175
5-10.5	19-40	up to 50	up to 15	1/2	13	Both	2500	175
5-10.5	19-40	51-100	15-30	2/8	16	Both	2500	175
7 7	2	700	000	2/8	16	Pressure	2500	175
c:01-c	94	006-001	08-00	3/4	19	Return	2500	175
10-13	38-49	up to 50	up to 15	2/8	16	Both	2500	175
2	00 40	7	7 U	2/8	16	Pressure	2500	175
CI -01	00 4-0 9	001-16	05-61	3/4	19	Return	2500	175
2,	20 40	700	09 00	3/4	19	Pressure	2500	175
SI-01	94-00	002-001	00-00	1	25.4	Return	2500	175
0,7	70	10 C+ C1.	0 0	8/9	16	Pressure	2500	175
0 -5	9-6-6	cz 01 dn	o 01 dn	3/4	19	Return	2500	175
0,7	40	26.400	0	3/4	19	Pressure	2500	175
0 -0 -0	49-60	70-100	05-0	_	25.4	Return	2500	175

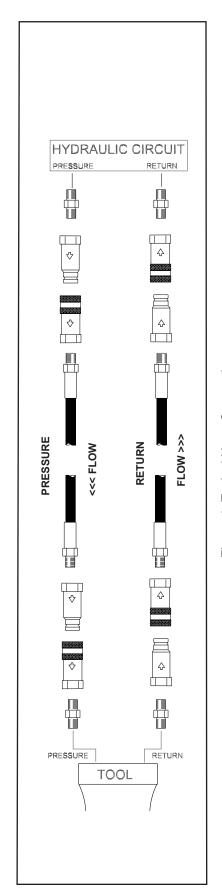


Figure 1. Typical Hose Connections



# **HTMA / EHTMA REQUIREMENTS**

# **HTMA / EHTMA REQUIREMENTS**

НТМА		TOOL TY	/PE	
HYDRAULIC SYSTEM REQUIREMENTS	TYPE I	TYPE II	TYPE RR	TYPE III
Flow Range	4-6 gpm	7-9 gpm	9-10.5 gpm	11-13 gpm
	(15-23 lpm)	(26-34 lpm)	(34-40 lpm)	(42-49 lpm)
Nominal Operating Pressure (at the power supply outlet)	1500 psi	1500 psi	1500 psi	1500 psi
	(103 bar)	(103 bar)	(103 bar)	(103 bar)
System relief valve setting (at the power supply outlet)	2100-2250 psi	2100-2250 psi	2200-2300 psi	2100-2250 psi
	(145-155 bar)	(145-155 bar)	(152-159 bar)	(145-155 bar)
Maximum back pressure (at tool end of the return hose)	250 psi	250 psi	250 psi	250 psi
	(17 bar)	(17 bar)	(17 bar)	(17 bar)
Measured at a max. fluid viscosity of: (at min. operating temperature)	400 ssu*	400 ssu*	400 ssu*	400 ssu*
	(82 centistokes)	(82 centistokes)	(82 centistokes)	(82 centistokes)
Temperature: Sufficient heat rejection capacity to limit max. fluid temperature to: (at max. expected ambient temperature)	140° F	140° F	140° F	140° F
	(60° C)	(60° C)	(60° C)	(60° C)
Min. cooling capacity at a temperature difference of between ambient and fluid temps NOTE:  Do not operate the tool at oil temperatures above 140° F (6 discomfort at the tool.	3 hp	5 hp	6 hp	7 hp
	(2.24 kW)	(3.73 kW)	(5.22 kW)	(4.47 kW)
	40° F	40° F	40° F	40° F
	(22° C)	(22° C)	(22° C)	(22° C)
	0° C). Operation at	t higher temperatu	res can cause ope	erator
Filter Min. full-flow filtration Sized for flow of at least: (For cold temp. startup and max. dirt-holding capacity)	25 microns	25 microns	25 microns	25 microns
	30 gpm	30 gpm	30 gpm	30 gpm
	(114 lpm)	(114 lpm)	(114 lpm)	(114 lpm)
Hydraulic fluid Petroleum based (premium grade, anti-wear, non-conductive) Viscosity (at min. and max. operating temps)	100-400 ssu* (2	100-400 ssu* 20-82 centistokes)	100-400 ssu*	100-400 ssu*
NOTE: When choosing hydraulic fluid, the expected oil temperature most suitable temperature viscosity characteristics. Hydrau over a wide range of operating temperatures.				

# EHTMA HYDRAULIC SYSTEM REQUIREMENTS

\*SSU = Saybolt Seconds Universal



# C 20Lpm at 138bar EHTMA CATEGORY





(138 bar)



11.8-14.5 gpm

(45-55 lpm)

1500 psi

(138 bar)

Flow Range
Nominal Operating Pressure (at the power supply outlet)
System relief valve setting

(at the power supply outlet)

3.5-4.3 gpm (13.5-16.5 lpm) 1870 psi (129 bar)

2495 psi

(172 bar)

4.7-5.8 gpm (18-22 lpm) 1500 psi (103 bar)

2000 psi

(138 bar)

7.1-8.7 gpm (27-33 lpm) 1500 psi (103 bar)

2000 psi

(138 bar)

7 gpm 9.5-11.6 gpm 8 lpm) (36-44 lpm) osi 1500 psi har) (103 bar)

(103 bar) (103 bar) 2000 psi 2000 psi

NOTE: These are general hydraulic system requirements. See tool specification page for tool specific requirements



# PRE-OPERATION PROCEDURES PREPARATION FOR INITIAL USE

Each unit as shipped has no special unpacking or assembly requirements prior to usage. Inspection to assure the unit was not damaged in shipping and does not contain packing debris is all that is required. After installation of a grinding stone a unit may be put to use.

### **CHECK HYDRAULIC POWER SOURCE**

- Using a calibrated flowmeter and pressure gauge, check that the hydraulic power source develops a flow of 7–10 gpm/26–38 lpm at 1500–2000 psi/105– 140 bar.
- Make certain the hydraulic power source is equipped with a relief valve set to open at 2200–2300 psi/152– 159 bar.
- Check that the hydraulic circuit matches the tool for open-center (OC) operation.

### **CHECK TOOL**

- Make sure all tool accessories are correctly installed.
   Failure to install tool accessories properly can result in damage to the tool or personal injury.
- 2. There should be no signs of leaks.
- 3. The tool should be clean, with all fittings and fasteners tight.

### **CHECK TRIGGER MECHANISM**

1. Check that the trigger operates smoothly and is free to travel between the **ON** and **OFF** positions.

# INSTALLING AND REMOVING GRINDING STONES

READ AND BECOME FAMILIAR WITH THE SECTIONS IN THIS MANUAL ON SAFETY PRECAUTIONS, TOOL STICKERS AND TAGS, HYDRAULIC HOSE REQUIREMENTS, HYDRAULIC REQUIREMENTS, AND PRE-OPERATION PROCEDURES BEFORE USING THIS PRODUCT.

# NOTE:

Use 3 inch diameter up to 5 inch long (Type 16, 17, 18 or 19) grinding cones or plugs with a 5/8-11 threaded arbor hole. Only use grinding cones or plugs which comply with ANSI B7.1/ISO 525, 603.

 Install the abrasive cone or plug onto the spindle (33). Using an open-end wrench on the flats of the drive flange (51) and while griping the cone or plug, tighten sufficiently to prevent disengagement of the cone or plug from the spindle.

### **CONNECT HOSES**

- 1. Wipe all hose couplers with a clean lint-free cloth before making connections.
- Connect the hoses from the hydraulic power source to the hose couplers on the grinder. It is a good practice to connect the return hose first and disconnect it last to minimize or avoid trapped pressure within the grinder motor.
- Observe flow indicators stamped on hose couplers to be sure that oil will flow in the proper direction. The female coupler is the inlet coupler.

### NOTE:

The pressure increase in uncoupled hoses left in the sun may result in making them difficult to connect. When possible, connect the free ends of operating hoses together.

## OPERATING PROCEDURES

- 1. Observe all safety precautions.
- Always start the grinder with the grinding stone away from the work surface.
- Move the hydraulic circuit control valve to the ON position.
- Squeeze the trigger momentarily. If the grinder does not operate, the hoses might be reversed. Verify correct connection of the hoses before continuing.
- 5. Start the grinder and move the grinding stone to the work surface.
- 6. Grind a small amount of material at a time.

### COLD WEATHER OPERATION

If the grinder is to be used during cold weather, preheat the hydraulic fluid at low engine speed. When using the normally recommended fluids, fluid temperature should be at or above 50 °F/10 °C (400 ssu/82 centistokes) before use.



# **TOOL PROTECTION & CARE**

# **NOTICE**

In addition to the Safety Precautions found in this manual, observe the following for equipment protection and care.

- Make sure all couplers are wiped clean before connection.
- The hydraulic circuit control valve must be in the OFF position when coupling or uncoupling hydraulic tools. Failure to do so may result in damage to the quick couplers and cause overheating of the hydraulic system.
- Always store the tool in a clean dry space, safe from damage or pilferage.
- Make sure the circuit PRESSURE hose (with male quick disconnect) is connected to the IN port. The circuit RETURN hose (with female quick disconnect) is connected to the opposite port. Do not reverse circuit flow. This can cause damage to internal seals.
- Always replace hoses, couplings and other parts with replacement parts recommended by Stanley Hydraulic Tools. Supply hoses must have a minimum working pressure rating of 2500 psi/172 bar.
- Do not exceed the rated flow. Refer to Specifications in this manual for correct flow rate. Rapid failure of the internal seals may result.

- Always keep critical tool markings, such as warning stickers and tags legible.
- Do not force a small tool to do the job of a large tool.
- Tool repair should be performed by experienced personnel only.
- Make certain that the recommended relief valves are installed in the pressure side of the system.
- Do not use the tool for applications for which it was not intended.



# **TROUBLESHOOTING**

If symptoms of poor performance develop, the following chart can be used as a guide to correct the problem.

When diagnosing faults in operation of the grinder, always check that the hydraulic power source is supplying the correct hydraulic flow and pressure to the grinder as listed in the table. Use a flowmeter known to be accurate. Check the flow with the hydraulic oil temperature at least 80  $^{\circ}$ F/27  $^{\circ}$ C.

Problem	Cause	Solution
Grinder does not run.	Hydraulic power source not functioning.	Check power source for proper flow and pressure (7–10 gpm/26–38 lpm @ 1500–2000 psi/105–140 bar.
	Couplers or hoses blocked.	Locate and remove restriction.
	Hydraulic motor failure.	Inspect and repair.
	Hydraulic lines not connected.	Connect lines.
Grinder operates too slow.	Hydraulic motor speed to slow.	Check power unit for proper flow (7–10 gpm/26–38 lpm).
	High back-pressure.	Check hydraulic system for excessive back-pressure (over 250 psi/17 bar).
	Couplers or hoses blocked.	Locate and remove restriction.
	Oil too hot (above 140 °F/60 °C) or too cold (below 60 °F/16 °C).	Check hydraulic power source for proper oil temperature. Bypass cooler to warm oil or provide cooler to maintain proper temperature.
	Relief valve set too low.	Adjust relief valve to 2200–2300 psi/152–159 bar.
	Hydraulic motor worn.	Inspect, repair or replace.
	Flow control malfunctioning.	Have flow control serviced at an authorized Stanley service center.
Grinder operates too fast.	Flow control malfunctioning.	Have flow control and valve body serviced at an authorized Stanley service center.
Spindle rotates in the wrong direction.	Hydraulic flow is in the wrong direction.	Connect the pressure line to the grinder port marked <b>IN</b> . Connect the return line to the grinder port marked <b>OUT</b> .

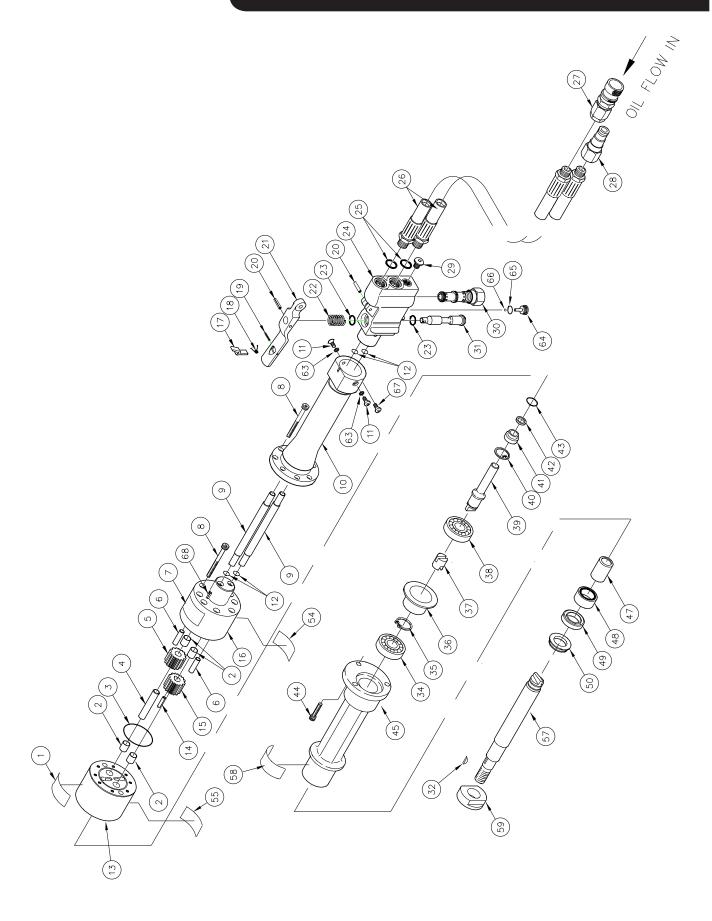


# **SPECIFICATIONS**

Wheel Capacity	3 in. dia. $\times$ 5 in. long $\times$ 5/8-11 arbor (type 16-19)
	1000–2000 psi/70–140 bar
	7–10 gpm/26–38 lpm
Optimum Flow	
Porting	8 SAE O-ring
Couplers	HTMA/EHTMA Flush Face Type Male & Female
Hose Whips	Yes
Weight (with whip hoses & couplers)	10.8 lb/4.89 kg
Overall Length	23 inches/58.4 cm
Overall Width	
	4 inches/10.2 cm
	6000 Max
Maximum Fluid Temperature	140 °F/60 °C
ACCESSORIES	
Grinding Stone (Cone)	30872



# **HG60 PARTS ILLUSTRATION**





# **HG60 PARTS LIST**

ITEM	PART NO.	QTY	DESCRIPTION
1	26229	1	CAUTION STICKER
2	06316	4	BUSHING
3	00178	1	O-RING*
4	06305	1	IDLER SHAFT
5	25667	1	IDLER GEAR
6	04031	2	DOWEL PIN
7	26212	1	NAME TAG
8	03249	8	CAPSCREW
9	27602	2	OIL TUBE
10	30381	1	DIPPED HANDLE
11	30366	2	CAPSCREW
12	00018	4	O-RING*
13	21430	1	FRONT BEARING HOUSING
	21437	1	FRONT BEARING HOUSING ASSY (INCL ITEM 2, 13)
14	03227	1	NEEDLE ROLLER
15	25666	1	DRIVE GEAR
16	29775	1	REAR BEARING HOUSING
17	27441	1	THUMB LATCH
18	27445	1	TORSION SPRING
19	01851	2	ROLL PIN
20	00114	1	ROLL PIN
21	27442	1	THUMB TRIGGER
22	04097	1	COIL SPRING
23	01211	2	O-RING*
24	27608	1	DIPPED VALVE
25	01605	2	O-RING*
26	66728	2	HOSE ASSY (AEROQUIP)
	58630	2	HOSE ASSY (PARKER)
27	47436	1	FEMALE COUPLER BODY (AEROQUIP)
	03972	1	FEMALE COUPLER BODY (PARKER)
28	47437	1	MALE COUPLER BODY (AEROQUIP)
	03973	1	MALE COUPLER BODY (PARKER)
29	350041	1	-4 SAE PLUG
30	28915	1	FLOW REGULATOR CARTRIDGE (PRE-SET)
31	04098	1	VALVE SPOOL
32	02447	1	KEY
33	-		NO ITEM
34	06314	1	BALL BEARING
35	00708	1	RETAINING RING
36	06300	1	BEARING SPACER
37	25360	1	COUPLING

ITEM	PART NO.	QTY	DESCRIPTION
38	00148	1	BALL BEARING
39	06303	1	MOTOR SHAFT
40	00170	1	RETAINING RING
41	30333	1	SEAL GLAND
42	00214	1	QUAD RING*
43	350771	1	O-RING*
44	00769	3	CAPSCREW
45	06301	1	SPINDLE HOUSING
46	_	_	NO ITEM
47	06299	1	BEARING RACE
48	06313	1	NEEDLE ROLLER BEARING
49	06312	1	SEAL*
50	06311	1	V-RING SEAL*
51	-		NO ITEM
52	<u> </u>	<u> </u>	NO ITEM
53	<u> </u>	<u> </u>	NO ITEM
54	25610	1	RAILROAD HELP DESK STICKER
55	03787	1	GPM STICKER 7-10 2000 PSI
56	_	_	NO ITEM
57	26206	1	SPINDLE
58	05153	1	STANLEY STICKER
59	26207	1	DRIVE FLANGE
60	_	-	NO ITEM
61	_	-	NO ITEM
62	_	_	NO ITEM
63	00032	2	LOCKWASHER
64	24289	1	PLUG
65	01411	1	O-RING
66	20145	1	STEEL BALL
67	01521	1	CAPSCREW
68	20939	1	ROLL PIN
	29137	1	SEAL KIT

<sup>\*</sup> Denotes part in seal kit.





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# **IMPORTANT**

To fill out a Product Warranty Recording form, and for information on your warranty, visit Stanleyhydraulic.com and select the Warranty tab.

(NOTE: The warranty recording form must be submitted to validate the warranty).