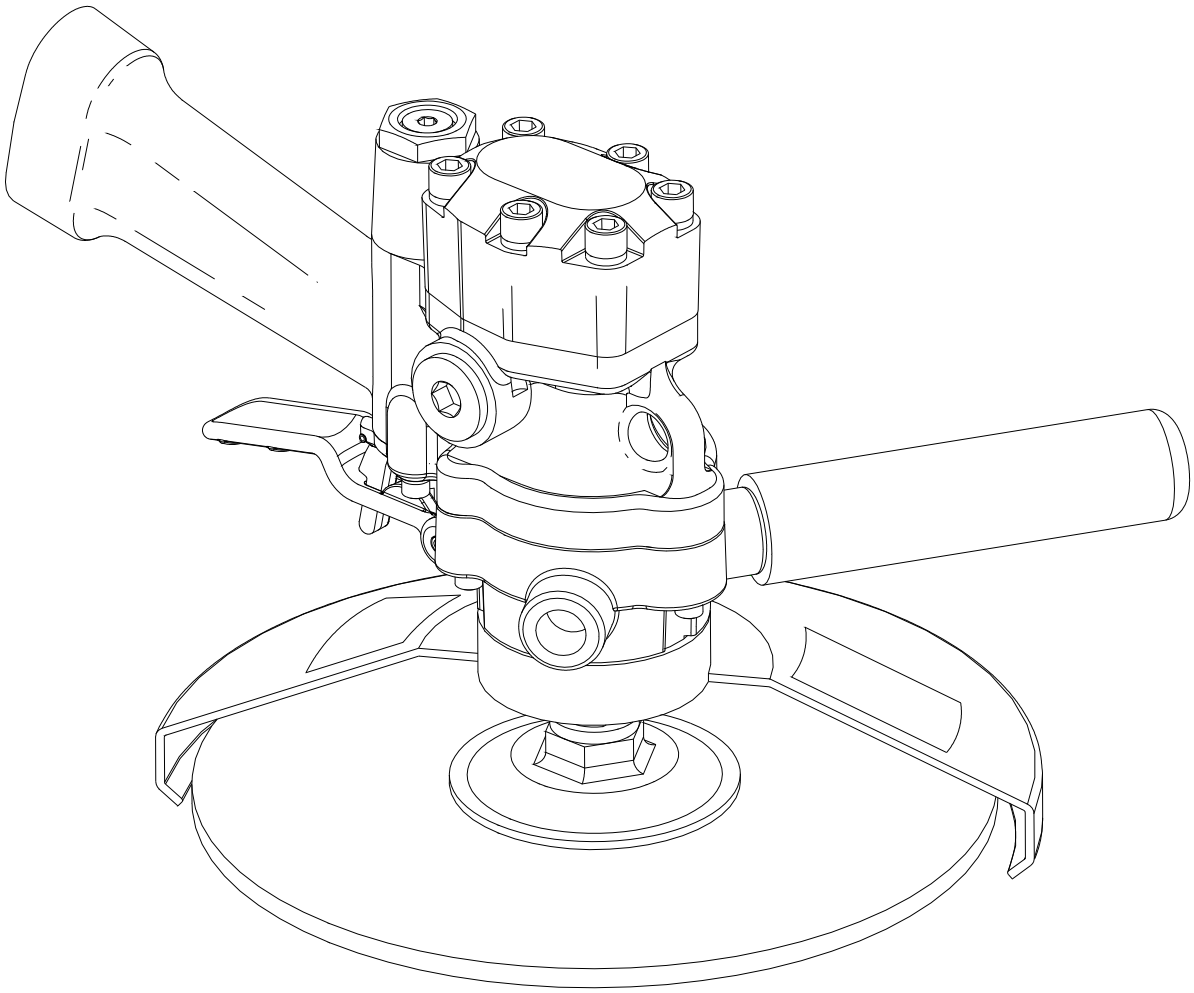
STANLEY®

Service Manual

GR30

Hydraulic Grinder



⚠ DANGER

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.

USA & CE Version
60790 8/2003 Ver. 1

Table of Contents

GR30
Hydraulic Grinder

SERVICING THE
GR30 Hydraulic Grinder:

This manual contains Safety, Operation, and Troubleshooting information. 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 DANGER warning on the cover and the SAFETY warning below.

SAFETY FIRST

It is the responsibility of the operator and service technician to read rules and instructions for safe and proper operation and maintenance.

A cautious worker using common sense is the greatest safety device.

Certificate of Conformity

CERTIFICATE OF CONFORMITY
ÜBEREINSTIMMUNGS-ZERTIFIKAT
CERTIFICAT DE CONFORMITE CEE
D'UN MARTEAU-PIQUEUR OU D'UN BRISE-BETON EXAMINE
CERTIFICADO DE CONFORMIDAD
CERTIFICATO DI CONFORMITA

STANLEY
Hydraulic Tools

I, the undersigned:
Ich, der Unterzeichnende:
Je soussigné:
El abajo firmante:
lo sottoscritto:

Burrows, James

Surname and First names/Familiennname und Vemamen/Nom et prénoms/Nombre y apellido/Cognome e nome

hereby certify that the construction plant or equipment specified hereunder:
bestätigt hiermit, daß die Konstruktion und Ausrüstung wie folgt spezifiziert ist:
atteste que le brise-béton:
por el presente certifico que la fabrica o el equipo especificado a continuacion:
certifico che l'impianto o l'attrezzatura sotto specificata:

1. Category: Grinder
   Kategorie:
   Catégorie:
   Categoria:
   Categoria:

2. Make/Ausführung/Marque/Marca/Fabbricazion: **Stanley**

3. Type/Typ/Type/Tipo/Tipo: GR3070101

4. Type serial number of equipment:
   Typ und Serien - Nr. der Ausrüstung:
   Numéro dans la série du type de matériel:
   Numero de serie tipo del equipo:
   Matricola dell´attrezzatura:

   ALL

5. Year of manufacture/Baujahr/année de fabrication/Año de fabricacion/Anno di fabbricazione: 2003

Has been manufactured in conformity with - EEC Type examination as shown.
wurde hergestellt in Übereinstimmung mit - EEC Typ-Prüfung nach.
est fabriqué conformément - au(x) type(s) examiné(s) comme indiqué dans le tableau di-après.
ha sido fabricado de acuerdo con - tipo examen EEC como dice.
è stata costruita in conformitá con - le norme CEE come illustrato.

Directive Richtlinie Directives particulières Directriz Direttiva	No. Nr Numéro No n.	Date Datum Date Fecha Data	Approved body Prüfung durch Organisme agréé Aprobado Collaudato	Date of expiry Ablauf datum Date d´expiration Fecha de caducidad Data di scadenza
EN EN ISO EN	792-7 3744 28662-4	1994 1995 1994	Self Self Self	NA NA NA

6. Special Provisions: **None**
   Spezielle Bestimmungen:
   Dispositions particulières:
   Provisiones especiales:
   Misure special:

Done at/Ort/Fait à/Dado en/Fatto a **Stanley Hydraulic Tools, Milwaukie, Oregon USA** Date/Datum/le/Fecha/Data 7/23/03

Signature/Unterschrift/Signature/Firma/Firma

Position/Position/Fonction/Puesto/Posizione **Engineering Manager**

Specifications

Flow range	7-9 gpm / 26-34 lpm
Optimum flow	8 gpm / 30 lpm
Pressure	1000-2000 psi / 70-140 bar
RPM	5800 at 8 gpm / 5800 at 30 lpm
Porting size	#8 SAE
Weight (with wheel guard)	12 lbs. / 5.7 kg
Length	8 in. / 20.3 cm
Width	10 in. / 25.4 cm

Grinding Wheel

Diameter (maximum)	9 in. / 229 mm
Thickness	5/32 in. / 4 mm
Arbor hole	5/8-11THD / 5/8-11THD
Rated speed (minimum)	6500 rpm

HTMA Class I	4-6 gpm @ 2000 psi
 EHTMA Category	20 lpm @138 bar
HTMA Class II	7-9 gpm @ 2000 psi
 EHTMA Category	30 lpm @ 138 bar
Sound Power Level	113.3 dBA
Vibration Level(Throttle Handle)	3.6 m/s^2
Vibration Level(Support Handle)	2.6 m/s^2

This tool is for land use only. Contact your authorized Stanley distributor for information about the GR29 underwater model.

General Safety Instructions

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

⚠ DANGER

This safety symbol may appear on the tool. It is used to alert the operator of an action that could place him/her or others in a life threatening situation.

⚠ WARNING

This safety symbol appears in these instructions to identify an action that could cause bodily injury to the operator or other personnel.

⚠ CAUTION

This safety symbol appears in these instructions to identify an action or condition that could result in damage to the tool or other equipment.

This tool 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 tool and hoses before operation. Failure to do so could result in personal injury or equipment damage.

- Operator must start in a work area without bystanders. The operator must be familiar with all prohibited work areas such as excessive slopes and dangerous terrain conditions.
- Establish a training program for all operators to ensure safe operations.
- Do not operate the tool unless thoroughly trained or under the supervision of an instructor.
- Always wear safety equipment such as goggles, head protection, and safety shoes at all times when operating the tool.
- Do not inspect or clean the tool while the hydraulic power source is connected. Accidental engagement of the tool can cause serious injury.
- Do not operate this tool without first reading the Operating Instructions.
- Do not install or remove this tool while the hydraulic power source is connected. Accidental engagement of the tool can cause serious injury.
- Never operate the tool if you cannot be sure that underground utilities are not present. Underground electrical utilities present an electrocution hazard. Underground gas utilities present an explosion hazard. Other underground utilities may present other hazards.
- Do not operate this tool in a potentially explosive environment.
- Do not wear loose fitting clothing when operating the tool. Loose fitting clothing can get entangled with the tool and cause serious injury.
- Supply hoses must have a minimum working pressure rating of 2500 psi/175 bar.
- Be sure all hose connections are tight.
- The hydraulic circuit control valve must be in the “OFF” position when coupling or uncoupling the tool. Wipe all couplers clean before connecting. Failure to do so may result in damage to the quick couplers and cause overheating. Use only lint-free cloths.
- Do not operate the tool at oil temperatures above 140° F/60° C. Operation at higher oil temperatures can cause operator discomfort and may cause damage to the tool.
- Do not operate a damaged, improperly adjusted, or incompletely assembled tool.
- To avoid personal injury or equipment damage, all tool repair, maintenance and service must only be performed by authorized and properly trained personnel.
- Do not exceed the rated limits of the tool or use the tool for applications beyond its design capacity.
- Always keep critical tool markings, such as labels and warning stickers legible.
- Always replace parts with replacement parts recommended by Stanley Hydraulic Tools.
- Check fastener tightness often and before each use daily.

Safety Instructions

This tool 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 tool and hoses before operation. Failure to do so could result in personal injury or equipment damage.

- Do not tighten or loosen the wheel nut by impact. Hold the shaft with a second wrench on the flats behind the wheel and tighten securely.
- Do not over-reach. Maintain proper footing and balance at all times.
- Always connect hoses to the tool hose couplers before energizing the hydraulic power source. Make sure all hose connections are tight.
- Always hold the tool with both hands when the unit is running. Use a firm grip.
- Keep all parts of your body away from the rotating wheel.
- Keep the wheel off all surfaces when starting the grinder.
- Always carry the tool with the wheel stopped.
- Make sure the wheel has stopped before setting down the tool.
- Keep the handles clean and free of fluid at all times.
- Always inspect wheels for possible damage before installation.
- Never transport or store the tool with the wheel mounted on the grinder.
- Never cock, jam or wedge the wheel during operation.
- Never cause sparks in the vicinity of flammable materials.
- Do not operate the tool with the wheel guard removed.
- Do not start grinding until you have a clear work area and secure footing.
- Do not allow other persons near the tool when starting or grinding
- Never operate the tool when you are tired or fatigued.
- Do not use a wheel that is cracked or otherwise damaged.
- Always use wheels that conform to the specifications given in the Operation section of this manual.
- Do not reverse wheel rotation direction by changing fluid flow direction.
- Do not operate the grinder unless the speed limiter is installed in the hose assembly at the **IN** port of the tool.

Tool Decals & Tags

A Name Tag Sticker is attached to the tool. Never exceed the flow and pressure levels specified on this sticker.The information listed on the name tag sticker must be legible at all times. Replace this sticker if it becomes worn or damaged. A replacement is available from your local Stanley distributor.

⚠WARNING

Correctly connect hoses to tool ports. Do not exceed specified flow or pressure. Improper handling, use or maintenance can cause a leak or burst that can result in oil injection to the body. Failure to observe these precautions may result in serious personal injury.

58862
Warning
Pressure

28322
"CE" Decal

⚠WARNING

Always wear eye protection while grinding. Use only undamaged reinforced resinoid wheels rated at 6500 rpm min, 9 in dia by 1/4 in max. Inspect wheel guard for signs of damage after any wheel failure. Wheel and jam nut must be tightened before use. Failure to observe these precautions may result in serious personal injury.

58863
Warning
Grinding Wheel

D
30Lpm at 138bar
BHTMA CATEGORY

11207
Circuit Type
"D" Decal

WHEEL SIZE:
RPM: SPINDLE:
PRESS: BAR PSI
FLOW: LPM GPM

28811
Information Plaque

OC/CC
FOR USE ON OPEN CENTER AND CLOSED CENTER HYDRAULIC SYSTEMS, "SET FOR PROPER SYSTEM BEFORE USE"

11354
OC/CC Sticker

STANLEY RAILROAD HELP DESK
1-800-549-0517
FOR CUSTOMER SERVICE OR TECHNICAL QUESTIONS

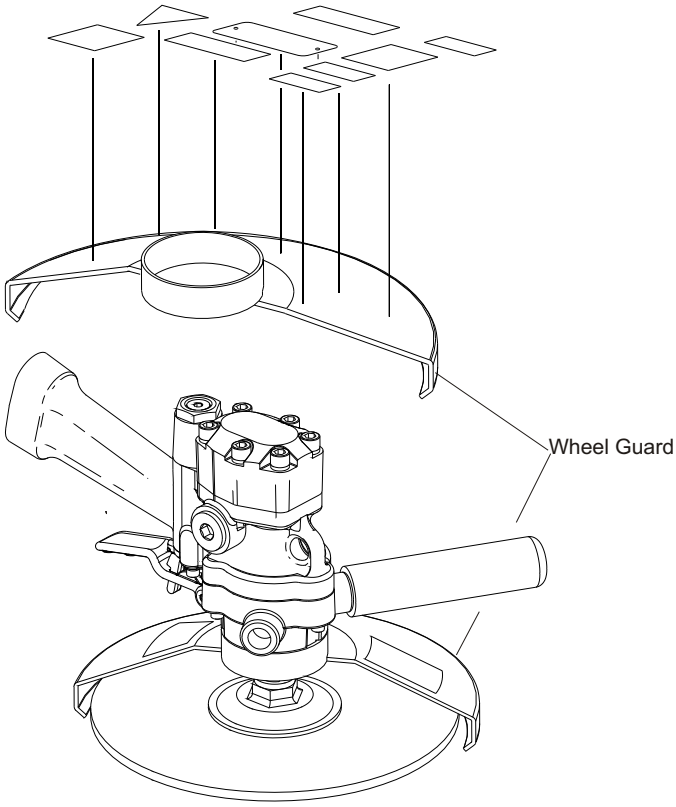
25610
Railroad Help Desk

STANLEY
Stanley Hydraulic Tools
3810 SE Naef Rd
Milwaukie, Oregon 97267
Model No. GR30
26-34 lpm/7-9 gpm
70-140 bar/1000-2000 psi

60808
GR30 Model Sticker

28409
Composite Sticker

All stickers, plaques and decals shown above are located on the wheel guard of the grinder.



DANGER

1. FAILURE TO USE HYDRAULIC HOSE **LABELED AND CERTI-FIED 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 HOSE IS **MAINTAINED AS NON- CONDUC TIVE**. THE HOSE SHOULD BE REGULARLY TESTED FOR ELECTRIC CURRENT LEAKAGE IN ACCORDANCE WITH YOUR SAFETY DEPARTMENT INSTRUCTIONS.
2. A HYDRAULIC LEAK OR BURST MAY CAUSE OIL INJECTION INTO THE BODY OR CAUSE OTHER SEVERE PERSONAL INJURY.
   A. DO NOT EXCEED SPECIFIED FLOW AND PRESSURE FOR THIS TOOL. EXCESS FLOW OR PRESSURE MAY CAUSE A LEAK OR BURST.
   B. DO NOT EXCEED RATED WORKING PRESSURE OF HYDRAULIC HOSE USED WITH THIS TOOL. EXCESS PRESSURE MAY CAUSE A LEAK OR BURST.
   C. CHECK TOOL, HOSE, COUPLERS & 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 ONLYBY TOOL OPERATOR.

(517) SEE OTHER SIDE 15875

DANGER

D. DO NOT LIFT OR CARRY TOOL BY THE HOSES. DO NOT ABUSE HOSE. DO NOT USE KINKED, TORN OR DAMAGED HOSES.
3. MAKE SURE HYDRAULIC HOSES ARE PROPERLY CONN-ECTED TO THE TOOL BEFORE PRESSURIZING SYSTEM. SYSTEM PRESSURE HOSE MUST ALWAYS BE CONNECTED TO TOOL "IN" PORT. SYSTEM RETURN HOSE MUST ALWAYS BE CONNECTED AT TOOL "OUT" PORT. REVERSING CONNECTIONS MAY CAUSE REVERSE TOOL OPERATION WHICH CAN CAUSE SEVERE PERSONAL INJURY.
4. DO NOT CONNECT CLOSED-CENTER TOOLS TO OPEN-CENTER HYDRAULIC SYSTEMS. THIS MAY CAUSE EXTREME SYSTEM HEAT AND/OR SEVERE PERSONAL INJURY.
   DO NOT CONNECT OPEN-CENTER TOOLS TO CLO SE D- CE NT ER HYDRAULIC SYSTEMS. THIS MAY RESULT IN LOSS OF OTHER HYDRAULIC FUNCTIONS POWERED BY THE SAME SYSTEM AND/OR SEVERE PERSONAL INJURY.
5. BYSTANDERS MAY BE INJURED IN YOUR WORK AREA. KEEP BYSTANDERS CLEAR OF YOUR WORK AREA.
6. WEAR HEARING, EYE, FOOT, HAND AND HEAD PROTECTION.
7. TO AVOID PERSONAL INJURY OR EQUIPMENT DAMAGE, ALL TOOL REPAIR, MAINTENANCE AND SERVICE MUST BE PERFORMED BY AUTHORIZED AN D PR OP ER LY 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 ONLYBY TOOL OPERATOR.

(517) SEE OTHER SIDE 15875

* Not all stickers are furnished on all tool models. Consult parts list and model number for details.

The SAFETY TAG, P/N 15875, shown at right, smaller than actual size, 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.

Hydraulic Hose Requirements

HOSE TYPES

Hydraulic hose types authorized for use with Stanley Hydraulic Tools are as follows:

❶ Certified non-conductive
❷ Wire-braided (conductive)
❸ Fabric-braided (not certified or labeled non-conductive)

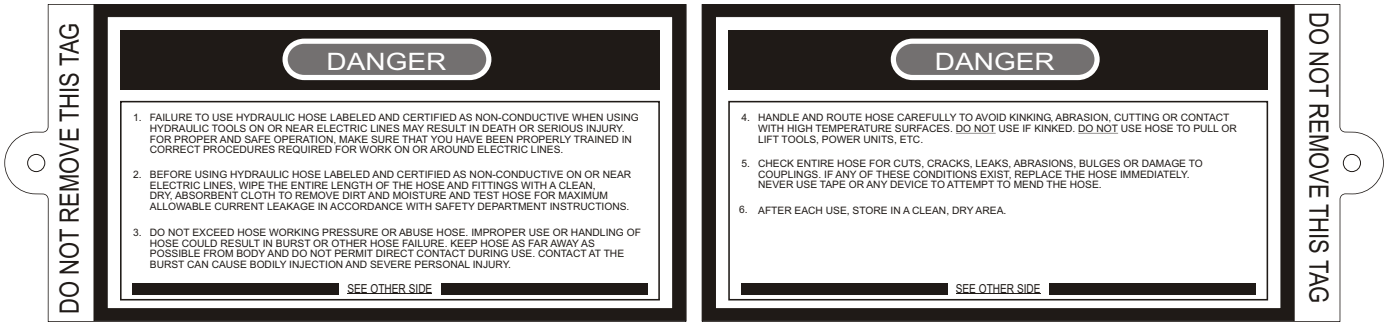
Hose ❶ listed above is the only hose authorized for use near electrical conductors.
Hoses ❷ and ❸ listed above are **conductive** and **must never** be near electrical conductors.

HOSE SAFETY TAGS

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

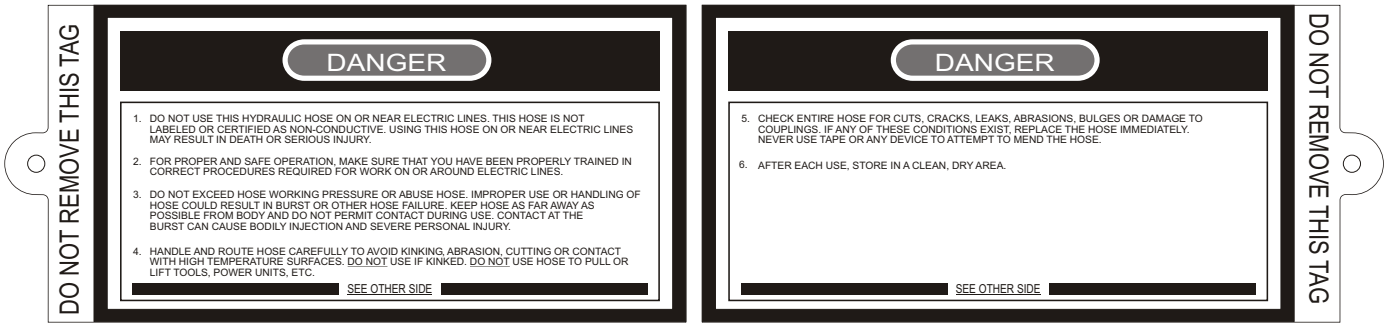
If the information in a tag is illegible because of wear or damage, replace the tag immediately. A new tag may be obtained at no charge from your Stanley Distributor.

This Tag attached to "Certified Non-Conductive" hose.
(shown smaller than actual size) p/n 27987



Side 1 Side 2

This Tag attached to "Conductive" hose.
(shown smaller than actual size) p/n 29144



Side 1 Side 2

HOSE PRESSURE RATING

The rated working pressure of the hydraulic hose must be equal to or higher than the relief valve setting on the hydraulic system.

HTMA Requirements

Hydraulic System Requirements	Tool Category C (20Lpm at 138bar BHTMA CATEGORY) Type I	D (30Lpm at 138bar BHTMA CATEGORY) Type II	E (40Lpm at 138bar EHTMA CATEGORY)	Type III
Flow rate Tool Operating Pressure (at the power supply outlet)	4-6 gpm (15-23 lpm) 2000 psi (138 bar)	7-9 gpm (26-34 lpm) 2000 psi (138 bar)	10.5-11.6 gpm (36-44 lpm) 2000 psi (138 bar)	11-13 gpm (42-49 lpm) 2000 psi (138 bar)
System relief valve setting (at the power supply outlet)	2100-2250 psi (145-155 bar)	2100-2250 psi (145-155 bar)	2100-2250 psi (145-155 bar)	2100-2250 psi (145-155 bar)
Maximum back pressure (at tool end of the return hose)	200 psi (14 bar)	200 psi (14 bar)	200 psi (14 bar)	200 psi (14 bar)
Measured at a max. fluid viscosity of: (at min. operating temperature)	400 ssu* (82 centistokes)	400 ssu* (82 centistokes)	400 ssu* (82 centistokes)	400 ssu* (82 centistokes)
Temperature Sufficient heat rejection capacity to limit max. fluid temperature to: (at max. expected ambient temperature)	140° F (60° C)	140° F (60° C)	140° F (60° C)	140° F (60° C)
Min. cooling capacity at a temperature difference of between ambient and fluid temps	3 hp (2.24 kW) 40° F (22° C)	5 hp (3.73 kW) 40° F (22° C)	6 hp (4.47 kW) 40° F (22° C)	7 hp (5.22 kW) 40° F (22° C)
NOTE: Do not operate the tool at oil temperatures above 140° F (60° C). Operation at higher temperatures can cause operator discomfort at the tool.				
Filter Min. full-flow filtration Sized for flow of at least: (For cold temp. startup and max. dirt-holding capacity)	25 microns 18 gpm (68 lpm)	25 microns 30 gpm (114 lpm)	25 microns 35 gpm (132 lpm)	25 microns 40 gpm (151 lpm)
Hydraulic fluid Petroleum based (premium grade, anti-wear, non-conductive) Viscosity (at min. and max. operating temps)	100-400 ssu* (20-82 centistokes)	100-400 ssu* (20-82 centistokes)	100-400 ssu* (20-82 centistokes)	100-400 ssu* (20-82 centistokes)
NOTE: When choosing hydraulic fluid, the expected oil temperature extremes that will be experienced in service determine the most suitable temperature viscosity characteristics. Hydraulic fluids with a viscosity index over 140 will meet the requirements over a wide range of operating temperatures.				
*SSU = Saybolt Seconds Universal				

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

Operating Instructions

Pre-Operation Procedures

The GR30 Hydraulic Grinder Requires minimum setup for operation. When the installation and operation instructions are carefully followed, the tool will provide years of efficient and reliable service.

Grinding Wheel Replacement

Always disconnect the hydraulic power source from the grinder before replacing the grinding wheel.

Tools, Parts, and Materials

- open-end or spanner wrenches (two sizes 5/8 in. and 1in.)
- grinding wheel (refer to the Specifications section)
- depressed-center wheel adapter, if required (refer to Parts List)

⚠ WARNING

Inspecting the tool or installing parts with the hydraulic hoses connected can result in severe personal injury or equipment damage.

To prevent accidental start-up, disconnect the hydraulic power before beginning any inspection or installation task.

1. If the hydraulic hoses are connected to the tool:
   - Turn the hydraulic system control valve **OFF**.
   - Disconnect first the hydraulic input (supply) hose, then the output (return) hose.
2. Remove the old grinding wheel, if any:
   - Place a 5/8 in. open-end wrench on the flats of the output shaft.
   - Remove the jam nut from the output shaft.
   - Unscrew the old grinding wheel.
3. Clean the surfaces of the tool to remove any dirt or grease.

Important - Never use a chipped, damaged, or worn grinding wheel.

4. Check the grinding wheel:
   - Make sure the correct wheel is selected for the job. The wheel must conform to the specifications listed in this manual.
   - Make sure the wheel is free of dirt and other foreign particles, especially the surfaces that contact the tool and jam nut.
   - Check the wheel for damage or wear.
5. If the wheel does not include an integral thread, use a depressed-center wheel adapter in the hole on the wheel.

Important - Never over-tighten the grinding wheel jam nut by impacting either wrench with a mallet or hammer. Sufficient torque is attained by hand tightening the nut with two open-end wrenches.

6. Install the grinding wheel:
   - Thread the grinding wheel or adapter on the shaft and tighten using appropriate wrenches.
   - Screw the jam nut on the output shaft.
   - Tighten the nut securely using two open-end wrenches. Place one wrench on the flats of the output shaft and the other on the jam nut.

Hydraulic Hose Connection

Proper installation of the hydraulic hoses is extremely important for safe, reliable operation of the tool. Make sure the hoses are securely attached to the tool before turning on the hydraulic power.

Note: If possible, connect the free ends of the hoses together when not in use. The pressure increase in uncoupled hoses left in the sun may make them difficult to connect.

⚠ WARNING

Connecting hydraulic hoses to the tool while the hydraulic power source in ON can cause personal injury or damage to the equipment.

Make sure the hydraulic power source is OFF before connecting or disconnecting the hydraulic hoses.

1. Make sure the hydraulic system control valve is in the **OFF** position when coupling or uncoupling the hoses. Failure to do so may result in damage to the quick couplers and cause overheating of the hydraulic system.

2. Before installing the hoses, wipe the fittings with a clean, dry lint-free cloth to remove any dirt or moisture. Dirty connections can contaminate the hydraulic fluid, causing rapid wear and early failure of internal parts.

⚠ WARNING

Reversing the direction of hydraulic flow to the tool can cause severe personal injury or damage to the equipment.

Make sure the input and output hoses are connected to the correct port on the tool.

3. If hose couplers are used, check the flow indicators (arrows) stamped on the couplers to ensure oil flows in the proper direction. The female coupler on the tool is the inlet coupler.

4. It is a good practice to connect the output (return) hose first and disconnect it last to minimize or avoid trapped pressure within the tool.

   a. Connect the output hose to the **OUT** port on the tool.

   b. Connect the input hose to the **IN** port.

   c. Be sure all hose connections are tight.

Test

Test the grinder to verify the hoses are connected correctly.

1. Move the hydraulic system control valve to **ON**.

2. Squeeze the grinder trigger momentarily. If the tool operates properly, move the hydraulic system control valve to **OFF**.

Operation

Pre-operation Checkout

Careful inspection of the tool and hydraulic system before startup is important for safe, reliable operation of the tool.

Daily Inspection

The following items should be checked daily at the start and the end of each work shift.

⚠ WARNING

Maintaining or repairing the tool with the hydraulic system before startup is important for safe, reliable operation of the tool.

To prevent accidental startup while maintaining or servicing the tool, disconnect the hydraulic power before beginning task.

Make sure the hydraulic system control valve is in the **OFF** position and the hoses are disconnected before inspecting the grinder.

1. Inspect the grinding wheel and guard:

   a. Make sure the correct grinding wheel is installed for the job. If not, follow the instructions for the Grinding Wheel Replacement. Refer to the Specifications Section for the grinding wheel requirements.

   b. Inspect the wheel for chips, cracks, or other damage. For maximum tool performance, replace the wheel if it is worn or defective.

   c. Inspect the wheel guard for cracks or other structural damage and replace if necessary.

   d. If necessary, adjust the position of the wheel guard by loosening the clamp.

   e. Check the capscrew(s) on the wheel guard for tightness.

2. Inspect the cross handle:

a. Make sure the cross handle in screwed tightly into the main body housing.

b. Clean any oil from the cross handle to ensure a firm grip.

3. Check the trigger mechanism:

   a. Make sure the trigger operates smoothly and is free to travel between the **ON** and **OFF** positions.

   b. Make sure the grinder stops when the trigger is released.

4. The tool should be clean, with all fittings and fasteners tight.

5. Check the tool for oil leaks. If leaks are observed, do not use the tool; have the equipment serviced before use.

Important - Check the speed of the motor output shaft after every 100 hours of operation.

Hydraulic Power Source Check

1. Connect the hydraulic hoses in accordance with the instructions for Hydraulic Hose Connection. Wipe all hose couplers with a clean, lint-free cloth before making connections. Dirty couplers can contaminate the hydraulic circuit and prevent a good seal at the connection.

2. Using a calibrated flowmeter and pressure guage, check the hydraulic power source at the tool's input port. Make sure the system provides the following flow requirements:

   • operating flow of 7-9 gpm / 26-34 lpm

   • at 2000 psi / 140 bar pressure

The hydraulic fluid temperature should be at least 80°F / 27°C for this test. Refer to the Hydraulic System Requirements section for more information.

3. Make sure the hydraulic power source has a relief valve set at a minimum of 2100 psi / 145 bar.

4. Check the tool and hydraulic system for proper operation and performance. If the equipment does not appear to operate properly, have it serviced before use.

Cold Weather Operation

Important - Use an oil with the recommended specifications listed. Using oil that is too viscous (thick) can damage the hydraulic system or tool.

Before using the tool in cold weather, preheat the hydraulic fluid by operating the power unit at a low speed. The oil should be at or above 50°F / 10°C with a viscosity of 400 SSU / 82 cs before operating the tool.

Open Center/ Closed Center Setup (OC/CC)

This tool can be configured to run on both open center and closed center systems. Set for proper system before use.

1. Determine system type.

2. Remove hex plug (78) from spring cap using a 3/16 in. Hex.

Closed Center	Using a 3/16 in. Hex, reach through the hole in the spring cap and turn the selector screw fully clockwise. When the selector screw bottoms, closed center operation is selected.
Open Center	Using a 3/16 in. Hex, reach through the hole in the spring cap and turn the selector screw counter-clockwise until meeting resistance (from the retaining ring). Turn the selector clockwise and then counter-clockwise to be sure the selector is being stopped by the retaining ring. Do not force the selector screw. Open center Operation is now selected.

3. Reinstall hex plug. Failure to install plug may introduce contaminants to the spool bore resulting in replacement of the valve spool and main Housing.

Operating Instructions

⚠ CAUTION

To prevent damage to the retaining ring, do not attempt to force the selector screw counter-clockwise beyond the point of initial resistance.

Tool Operation

⚠ WARNING

Improper operation of this tool can cause severe personal injury, death, or equipment damage.

Read the safety guidelines and instructions in this manual before operating the tool.

Observe all safety precautions when operating the tool. Read the Safety and the HTMA Requirements sections before operating the tool for the first time. Failure to do so can result in severe eye injury or injury to other parts of the body.

Startup

At the beginning of each shift, or after a new wheel is installed, run the grinder at operating speed for at least one minute before starting work.

- Move the hydraulic system control valve to the **ON** position.
- Slowly squeeze the trigger.
- Run the grinder at least one minute.
- Release the trigger.

If excessive vibration or any other defect is detected, stop the tool immediately and determine the cause. Do not use the tool until the problem is corrected.

General Procedure

1. Grip the tool with both hands at all times during start-up and operation.
2. Always start the grinder with the wheel away from the work surface.
3. Make sure you have full balance before starting the grinder's plane of rotation.

Shutdown

1. Move the hydraulic system control valve to the **OFF** position.
2. Disconnect the hydraulic hoses from the tool-first the input (supply) hose, then the output (return) hose.
3. Place dust plugs on the couplers, as applicable.
4. Wipe the tool thoroughly with a clean dry cloth.
5. Clean any foreign matter from the grinding wheel surfaces.

Care and Storage

Clean and inspect the wheel and tool before storing.

Grinding Wheels

All grinding wheels are breakable. Exercise care in handling and storage to prevent damage.

1. Clean used wheels to remove any dirt, debris, or grease.
2. Inspect the wheel for chips, cracks, or other damage. For maximum tool performance, replace the wheel if it is worn or defective.

Tool

1. Clean the tool to remove any dirt, debris, or grease. Dry with compressed air or clean dry cloths.
2. Replace any damaged or missing safety labels and tags before storing the tool. Otherwise, the tool might be improperly used by someone who is not familiar with the safety requirements.
3. Store the tool in a clean, dry, safe place.

Periodic Maintenance

Drive Shaft Speed Check

Check the speed of the motor shaft at least every 100 hours of operation. The test should be performed only by a trained, experienced technician.

1. Maintain a record of the speed checks.

2. The maximum rated speed of the GR30 is 6500 rpm.

3. The rated speed of the grinding wheel must be equal to, or be greater than that of the tool to ensure the integrity of the wheel at the maximum tool speed.

4. Use the hydraulic power supply normally used with the grinder when conducting the test.

5. Excessive speed may be caused by excessive hydraulic fluid flow to the tool.

6. Ensure the flow control is installed and functioning properly.

Bearing Check

Periodically inspect the bearings and associated parts for proper orientation. A worn or damaged bearing can lead to further part damage.

Periodically repack the bearing with grease.

Tool Disassembly / Reassembly

Note: For orientation of parts in the following procedures, refer to the parts drawing later in this manual.

Prior to Disassembly

1. Clean the exterior of the tool and place on a clean work surface.

2. Obtain the seal kit listed on the PARTS LIST so all seals exposed during disassembly can be replaced.

Prior to Reassembly

1. Clean all parts with a degreasing solution

2. Blow dry all parts or use lint-free cloths.

3. Ensure that all seals exposed during disassembly are replaced with new parts.

4. Apply clean grease or o-ring lubricant to all parts during assembly.

Tool Disassembly

Flow Control

1. The tamper proof flow control valve (56) located on the end of the hose whip (17) is preset at the factory and is not field serviceable. If the drive shaft speed exceeds the 6500 rpm maximum limit, replace the flow control. Refer to the Periodic Maintenance procedure at the beginning of the Service section for the drive shaft speed test.

⚠ DANGER

Do not operate the grinder without the flow control installed.

Cross Handle

1. Remove the cross handle (24) by unscrewing it from the gear housing (68).

Grinding Wheel and Guard

For non-CE Certified Grinders, complete the following steps:

2. Remove the jam nut (28) from the output shaft (66) using two open end wrenches.

3. Remove the grinding wheel from the output shaft.

4. Loosen the capscrew on the wheel guard (29) and remove from the gear housing (68).

For CE Certified Grinders, complete the following steps:

1. Remove the hub nut (40) using a spanner wrench and an open end wrench.

2. Remove the grinding wheel from the output shaft.

3. Remove the setscrew (8) from the drive flange (39) and remove the drive flange from the output shaft.

4. Loosen the thumb screw (35) on the wheel guard (29) and remove from the gear housing (68).

Gear Housing

1. Remove the capscrews (30) and the lockwashers (31) and remove the gear housing (68) and attached parts from the main housing (73).

2. Remove the seal gasket (70) and the thrust support (65) from the gear housing.

3. Push the output shaft (66) and attached parts out of the gear housing.

4. Press the shaft seal (27) from the gear housing.

5. Spin the ball bearing (25) on the output shaft. The bearing should turn smoothly. To replace the bearing, first remove the retaining ring (26), then support the outer race and press down on the output shaft from the threaded end. Do not reuse the ball bearing once it has been removed from the output shaft.

Motor Cap

1. Remove the capscrews (42) and lockwashers (2) securing the motor cap assembly (47) to the main housing assembly and lift off the motor cap assembly. Do not in any way excessively force the motor cap off the main housing assembly.

2. Remove the o-ring (10) from the motor cap.

Main Shaft and Idler Shaft

1. Tap on the spline end of the main shaft (49) and push the shaft from the main housing.

2. Remove the idler gear (46) and idler shaft (48).

3. Remove the retaining ring (18) and then pick out the seal washer (45), back-up ring (37), and o-ring (4) from the main housing.

Valve Spool

1. Unscrew the spring cap (67), pick out the spring (76) and push the valve spool (62) out the spring cap end of the main housing.

Trigger

1. Remove the trigger (74) by first removing the capscrews (9) and lockwashers (31) and removing the trigger and trigger mount (75) as an assembly.

2. Drive out the roll pin (23).

Check Valve

1. Remove hex head plug (41) from each side of the main housing.

2. Remove check valve (53, 12, 79, 54) from main housing. Note the orientation.

NOTE: Make sure the idler shaft has been removed prior to completing this step.

Cleaning and Inspection

Cleaning

Clean all parts with a degreasing solution. Blow dry with compressed air or use lint-free cloths.

Gear Chamber (Motor Cap)

The chamber bores and bottoms around the shaft

bushings should be polished and not rough or grooved. If the bushing bores are yellow-bronze, replace them and investigate the cause of wear.

The flat surfaces around the chamber and bolt holes should be flat and free of nicks or burrs that could cause misalignment or leaks.

Bushings

The inside of the bushings should be gray with some bronze showing through. If significant yellow-bronze shows, replace the bushings. Inspect the motor shaft and idler shaft for corresponding wear and replace as required.

Gears

The drive and idler gears should have straight tips without nicks, square tooth ends, and a smooth even polish on the teeth and end faces. Replace the gear if cracks are present.

Main Housing Assembly

The surface near the gears should show two interconnecting polished circles without a step.

Shafts

The shaft diameter at the bearing and seal locations must be smooth. Grooves, roughness or a reduced diameter indicate fluid contamination or damaged bushings. Grit particles may have been imbedded in the bushings, grinding into the hardened shaft. If abnormal shaft wear as noted above occurs (more than normal polishing), replace both the shaft and associated bushings.

Also check the hydraulic system for excess contamination in the fluid and for filter condition. Operating conditions may require changing from a 25-micron filter to an oversized 10-micron filter.

Tool Reassembly

Check Valve

1. Install the check valve housing (53, 12, 79, 54) into the main housing assembly. Insert the housing with the hex plug (54) to the right when viewed from the back of the tool. The central small diameter hole must align with the assembly of the tip of the idler shaft (48).

2. Insert the idler shaft (48) to prevent the check valve housing from turning.

3. Install hex plug (41) into each side of the main housing.

Main Shaft and Idler Shaft

1. Lubricate and install a new o-ring (4) and back-up ring (37) into the main housing. Install the seal back-up washer (45) and retaining ring (18).

2. Lubricate seal area of main shaft (49) and install it into the main housing. Install the idler gear (46) onto the idler shaft.

Motor Cap

1. Lubricate and install a new o-ring (10) onto the motor cap (47).

2. Lubricate capscrew threads (42) with an antiseize compound and install the motor cap with the capscrews and lockwashers (2). Tighten bolts to 15-17 ft.lb. / 20-23 N m in a cross pattern

⚠ CAUTION

Do not force parts together.

Trigger

1. Lubricate and install a new o-ring (22) in the main housing and a new seal wiper (64) in the trigger mount (75).

2. Secure trigger (74) to trigger mount with roll pin (23) and install trigger assembly to main housing with capscrews (9) and lockwashers (31).

Valve Spool

1. Lubricate and install a new o-ring (21) on the valve spool (62) before installing valve spool into the main housing from the spring cap end. Do not install the valve spool from the trigger side of the main housing as this will result in spool seal damage. Ensure that the tab on the valve spool nose is aligned with the slot in the trigger.

2. Install spring (76) behind valve spool. Using Loctite™ 242, install the spring cap (67) to the main housing.

Gear Housing

4. Lubricate and press the shaft seal (27) into the gear housing (68).

5. Install the bearing (25) on the lubricated output shaft (66) and secure with the retaining ring (26).

6. Press the output shaft with attached parts into the gear housing (68).

7. Install the thrust support (65) in the gear housing and the seal gasket (70) around the thrust support.

8. Install the gear chamber and attached parts to the main housing using capscrews (30) and lockwashers (31).

Wheel Guard

For non-CE Certified Grinders, complete the following steps:

1. Install the wheel guard (29) on gear housing and secure by tightening the capscrew on the guard. Orient the wheel guard so it is between the operator and the working part of the wheel.

For CE Certified Grinders, complete the following steps:

1. Install wheel guard (29) on gear housing and secure by tightening the thumbscrew (35) on the guard. Orient the wheel guard so it is between the operator and the working part of the wheel.

Grinding Wheel

Refer to the Operating Instructions for Grinding Wheel Installation.

Cross Handle

1. Install the cross handle (24) into the gear housing (68). The cross handle may be installed on either side of the tool for right or left handed use.

Flow Control

1. Install flow control (56) onto hose whip (17). Refer to the Periodic Maintenance procedure at the end of the Service section for the drive shaft speed test.

⚠ DANGER

Do not operate the grinder without the flow control installed.

Troubleshooting

This section describes how to find and resolve problems users may experience. If a situation occurs that is not covered, call your Stanley Customer Service representative for assistance.

⚠ WARNING

Inspecting the tool or installing parts with the hydraulic hoses connected can result in severe personal injury or equipment damage.
To prevent accidental startup, disconnect the hydraulic power before beginning any inspection or installation task.

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 tool, always check that the hydraulic power source is supplying the correct hydraulic flow and pressure to the tool as listed in the table. Use a flowmeter known to be accurate. Check the flow with the hydraulic oil temperature at least 80° F/27° C.

Symptom	Possible Cause	Solution
Tool does not operate.	Hydraulic control valve OFF.	Turn the hydraulic system control valve ON.
	Hydraulic hoses not connected properly.	Make sure the hoses are connected and the couplers are tight.
	Hydraulic system not functioning.	Check power unit for proper flow and pressure (7-9 gpm/26-34 lpm, 1000-2000 psi/70-140 bar).
	Couplers or hoses blocked.	Remove restriction.
	Mechanical failure.	Disassemble and inspect for damage.
Tool operates in reverse.*	Hoses connected to wrong ports on tool.	Connect input (supply) line to IN port. Connect output (return) to OUT port.
Low performance	Incorrect hydraulic flow.	Check power unit for proper flow and pressure (7-9 gpm/26-34 lpm, 1000-2000 psi/70-140 bar).
	Defective quick disconnects.	Check quick disconnects.
Fluid leak at motor cap face.	Capscrews loose.	Contact an authorized Stanley distributor to seal and tighten to recommended torque value.
	Face o-ring worn or missing.	Replace as required.
	Motor cap or main body assemblies damaged.	Replace as required.

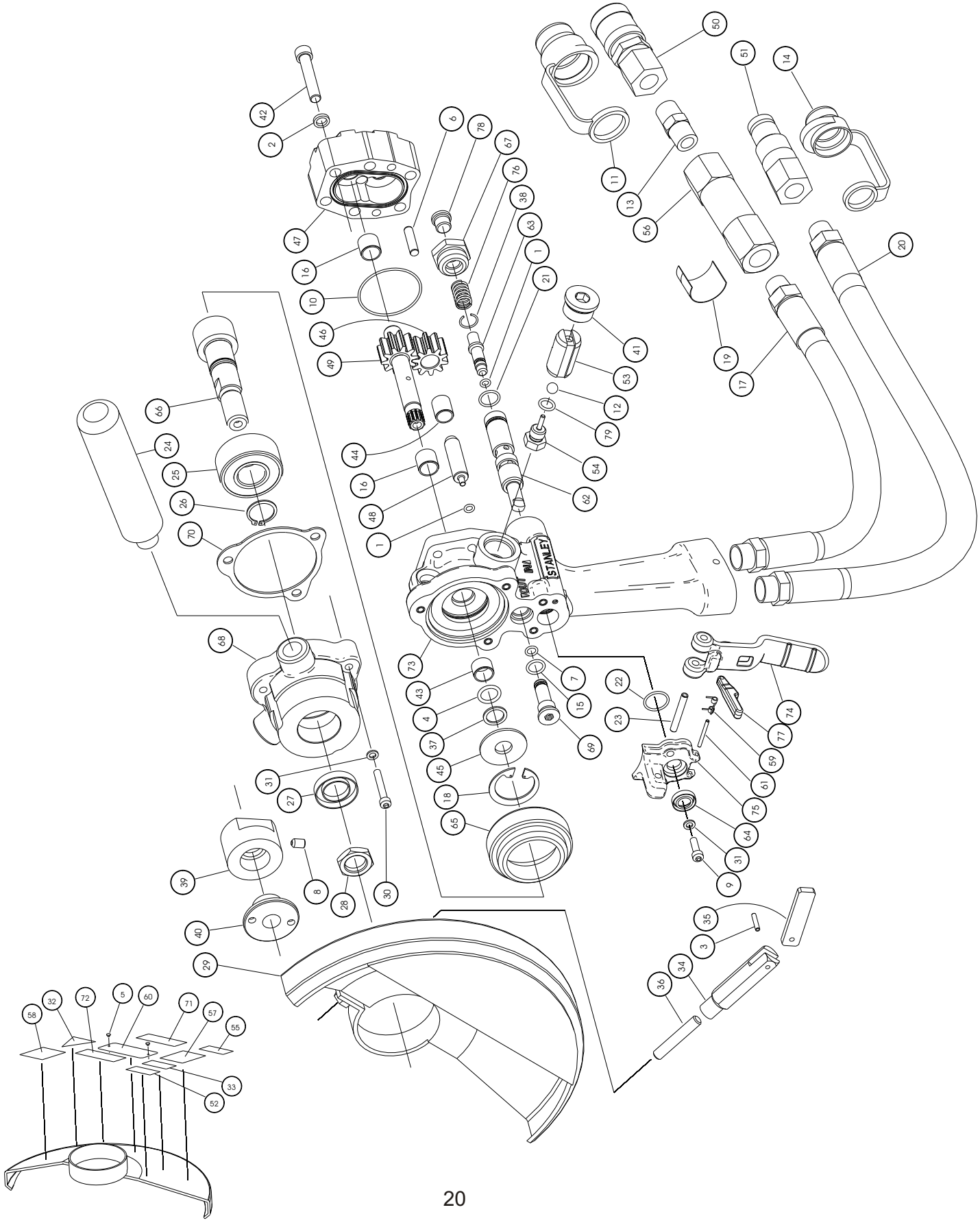
* Grinding wheel should rotate CCW when viewed from the shaft end.

continued

Troubleshooting

Symptom	Possible Cause	Solution
Fluid leaks.	Damaged o-rings	Contact an authorized Stanley distributor.
	Wrong hydraulic fluid. Circuit too hot.	See HTMA Requirements section.
	Hoses connected to wrong ports on tool.	Connect input (supply) line to IN port. Connect output (return) to OUT port.
Trigger difficult to operate.	Hoses connected to wrong ports on tool.	Connect input (supply) line to IN port. Connect output (return) to OUT port.
	Excessive back pressure.	If back pressure is greater than 250 psi /17 bar, correct the return line obstruction or restriction.
Fluid gets hot, power unit working hard.	Open-center tool on closed-center circuit.	Tool designed for open-center hydraulic system.
	Too much fluid going through tool.	Adjust flow for 9 gpm / 34 lpm maximum.
	Circuit generating high heat with flow controls, open relief valve, etc.	Use pump and rpm for producing needed flow only.
	Curcuit contaminants caused pump and valve wear, and high heat operation.	Contact your authorized Stanley distributor for pump and valve replacement. Install large clean filter and keep circuit fluid clean.
Grinding wheel comes to abrupt stop after release of trigger.	Porting spool incorrectly installed.	Contact your authorized Stanley distributor.
	Mechanical failure.	Contact your authorized Stanley distributor.

GR30 Parts Illustration



GR30 Parts List

Item	Part	Qty.	Description	Notes
1	00026	2	O-ring 3/16 x 5/16 x 1/16 -008	
2	00231	6	Lockwasher 5/16" I.D.	
3	00285	1	Roll Pin 1/8 O.D. x .625 Lg.	Model GR3070101 Only
4	00354	1	O-ring 1/2 x 11/16 x 3/32 -112	
5	00358	2	Rivet 1/8 #42	Model GR3070101 Only
6	00713	2	Dowel Pin	
7	00717	1	O-ring 1/4 x 3/8 x 1/16 -010	
8	00720	1	Setscrew 1/4-20 x 3/8	Model GR3070101 Only
9	00803	2	HSHCS 10-24 x 5/8	
10	01262	1	O-ring 1-3/4 x 1-7/8 x 1/16 -031	
11	02324	1	Cap & Plug 1/2"	Model GR30701SUP Only
12	02436	1	Steel Ball 5/16	
13	03044	1	Hex Nipple 3/8NPT	
14	03288	1	Cap & Plug 3/8"	Model GR30701SUP Only
15	03364	1	O-ring .441 x .558 x .072 -905	
16	05207	2	Bushing	
17	05638	1	Hose 451tc-01-05-06-08-08-12.5	Model GR30701, GR3070101 Only
	56726	1	Hose 471st-05-01-08-06-08-12.5	Model GR30701S, GR30701SUP Only
18	06635	1	Retaining Ring	
19	06693	1	Flow Control Label	
20	07226	1	Hose 381-05-01-08-06-08-18	Model GR30701, GR3070101 Only
	56725	1	Hose 471st-05-01-08-06-08-18	Model GR30701S, GR30701SUP Only
21	07626	1	O-ring 1/2 x 5/8 x 1/16 -014	
22	07627	1	O-ring 5/8 x 3/4 x 1/16 -016	
23	07970	1	Roll Pin 3/16 O.D. x 1.375 Lg.	
24	08130	1	Handle	
25	08175	1	Bearing	
26	08176	1	Retaining Ring	
27	08177	1	Shaft Seal	
28	08319	1	Hex Jam Nut 5/8-11UNC	Model GR30701, GR30701S, GR30701SUP Only
29	08322	1	Wheel Guard	Model GR30701, GR30701S, GR30701SUP Only
	11937	1	Wheel Guard CE	Model GR3070101 Only
30	09622	3	Hshcs 10-24 x 1-1/4	
31	09623	5	Lockwasher #10	
32	11207	1	Circuit Type "D" Sticker	Model GR3070101 Only
33	11354	1	OC/CC Sticker	
34	12290	1	Clamp Screw	Model GR3070101 Only
35	12291	1	Thumb Plate	Model GR3070101 Only
36	12786	1	Stud 5/16-18UNC x 1.750	Model GR3070101 Only
37	13995	1	Back-up Ring -112	
38	16070	1	Retaining Ring	
39	16494	1	Drive Flange	Model GR3070101 Only
40	16495	1	Hub Nut	Model GR3070101 Only
41	16607	2	Hollow Hex Plug -10 SAE	
42	18206	6	HSHCS 5/16-18 x 1-3/4	
43	20758	1	Bushing	
44	20760	1	Bushing	
45	20767	1	Seal Back-up Washer	
46	20769	1	Idler Gear Assy	Includes #44
47	20770	1	Motor Cap Assy	Includes #6, 16
48	20782	1	Idler Shaft	
49	20788	1	Main Shaft	
50	24058	1	3/8 Flushface Coupler Body 3/8NPT	Part Of Set 24069
51	24059	1	3/8 Flushface Coupler Nose 3/8NPT	Part Of Set 24069
52	60808	1	GR30 Model No. Sticker	
53	24384	1	Check Valve Housing	
54	24385	1	Check Valve Plug	
55	25610	1	Railroad Help Desk Sticker	Model GR30701S, GR30701SUP Only
56	26542	1	Flow Control 8.5 GPM	
57	28322	1	Sticker "CE" 25mm	Model GR3070101 Only
58	28409	1	Composite Sticker	
59	28808	1	Torsion Spring	
60	28811	1	Information Plaque	Model GR3070101 Only
61	29051	1	Roll Pin 3/16 O.d. x 1.000 Lg.	
62	48987	1	Valve Spool	
63	48989	1	Selector Screw	
64	49139	1	Seal Wiper	
65	49179	1	Thrust Support	
66	49185	1	Output Shaft	

GR30 Parts List

Item	Part	Qty.	Description	Notes
67	56758	1	Spring Cap	
68	58458	1	Gear Housing Machining	
69	58462	1	Relief Cartridge Plug Assy	Includes #7, 15
70	58635	1	Seal Gasket	
71	58862	1	Warning Sticker - Pressure	Model GR30701, GR30701S, GR30701SUP Only
72	58863	1	Warning Sticker - Grinding Wheel	Model GR30701, GR30701S, GR30701SUP Only
73	59049	1	Main Housing Assy	Includes #16, 43
74	60677	1	Trigger Casting	
75	60678	1	Trigger Mount Casting	
76	60679	1	Spring	
77	60681	1	Trigger Lock Casting	
78	350041	1	Hollow Hex Plug -4 SAE	
79	350770	1	O-ring .351 x .393 x .072 -904	

Seal Kit P/N 60793		
1	00026	O-ring 3/16 x 5/16 x 1/16 -008
4	00354	O-ring 1/2 x 11/16 x 3/32 -112
7	00717	O-ring 1/4 x 3/8 x 1/16 -010
10	01262	O-ring 1-3/4 x 1-7/8 x 1/16 -031
15	03364	O-ring .441 x .558 x .072 -905
21	07626	O-ring 1/2 x 5/8 x 1/16 -014
22	07627	O-ring 5/8 x 3/4 x 1/16 -016
27	08177	Shaft Seal
37	13995	Back-up Ring -112
64	49139	Seal Wiper
70	58635	Seal Gasket
79	350770	O-ring .351 x .393 x .072 -904

NOTE:
Use Part Number and Description when ordering.

Accessories

Part	Description
	Grinding Wheels
02587	for Metal: 9 in. dia. x 5/8-11 THD Arbor
02588	for Masonry: 9 in. dia. x 5/8-11 THD Arbor
03691	general: 7 in. dia. x 5/8-11 THD Arbor
05194	Wheel Adapter, Depressed Center

Warranty

Stanley Hydraulic Tools (hereinafter called “Stanley”), subject to the exceptions contained below, warrants new hydraulic tools for a period of one year from the date of sale to the first retail purchaser, or for a period of 2 years from the shipping date from Stanley, whichever period expires first, to be free of defects in material and/or workmanship at the time of delivery, and will, at its option, repair or replace any tool or part of a tool, or new part, which is found upon examination by a Stanley authorized service outlet or by Stanley’s factory in Milwaukie, Oregon to be DEFECTIVE IN MATERIAL AND/OR WORKMANSHIP.

EXCEPTIONS FROM WARRANTY

NEW PARTS: New parts which are obtained individually are warranted, subject to the exceptions herein, to be free of defects in material and/or workmanship at the time of delivery and for a period of 6 months after the date of first usage. Seals and diaphragms are warranted to be free of defects in material and/or workmanship at the time of delivery and for a period of 6 months after the date of first usage or 2 years after the date of delivery, whichever period expires first. Warranty for new parts is limited to replacement of defective parts only. Labor is not covered.

FREIGHT COSTS: Freight costs to return parts to Stanley, if requested by Stanley for the purpose of evaluating a warranty claim for warranty credit, are covered under this policy if the claimed part or parts are approved for warranty credit. Freight costs for any part or parts which are not approved for warranty credit will be the responsibility of the individual.

SEALS & DIAPHRAGMS: Seals and diaphragms installed in new tools are warranted to be free of defects in material and/or workmanship for a period of 6 months after the date of first usage, or for a period of 2 years from the shipping date from Stanley, whichever period expires first.

CUTTING ACCESSORIES: Cutting accessories such as breaker tool bits are warranted to be free of defects in material and or workmanship at the time of delivery only.

ITEMS PRODUCED BY OTHER MANUFACTURERS: Components which are not manufactured by Stanley and are warranted by their respective manufacturers.

a. Costs incurred to remove a Stanley manufactured component in order to service an item manufactured by other manufacturers.

ALTERATIONS & MODIFICATIONS: Alterations or modifications to any tool or part. All obligations under this warranty shall be terminated if the new tool or part is altered or modified in any way.

NORMAL WEAR: Any failure or performance deficiency attributable to normal wear and tear such as tool bushings, retaining pins, wear plates, bumpers, retaining rings and plugs, rubber bushings, recoil springs, etc.

INCIDENTAL/CONSEQUENTIAL DAMAGES: To the fullest extent permitted by applicable law, in no event will STANLEY be liable for any incidental, consequential or special damages and/or expenses.

FREIGHT DAMAGE: Damage caused by improper storage or freight handling.

LOSS TIME: Loss of operating time to the user while the tool(s) is out of service.

IMPROPER OPERATION: Any failure or performance deficiency attributable to a failure to follow the guidelines and/or procedures as outlined in the tool’s operation and maintenance manual.

MAINTENANCE: Any failure or performance deficiency attributable to not maintaining the tool(s) in good operating condition as outlined in the Operation and Maintenance Manual.

HYDRAULIC PRESSURE & FLOW, HEAT, TYPE OF FLUID: Any failure or performance deficiency attributable to excess hydraulic pressure, excess hydraulic back-pressure, excess hydraulic flow, excessive heat, or incorrect hydraulic fluid.

REPAIRS OR ALTERATIONS: Any failure or performance deficiency attributable to repairs by anyone which in Stanley’s sole judgement caused or contributed to the failure or deficiency.

MIS-APPLICATION: Any failure or performance deficiency attributable to mis-application. “Mis-application” is defined as usage of products for which they were not originally intended or usage of products in such a matter which exposes them to abuse or accident, without first obtaining the written consent of Stanley. PERMISSION TO APPLY ANY PRODUCT FOR WHICH IT WAS NOT ORIGINALLY INTENDED CAN ONLY BE OBTAINED FROM STANLEY ENGINEERING.

WARRANTY REGISTRATION: STANLEY ASSUMES NO LIABILITY FOR WARRANTY CLAIMS SUBMITTED FOR WHICH NO TOOL REGISTRATION IS ON RECORD. In the event a warranty claim is submitted and no tool registration is on record, no warranty credit will be issued without first receiving documentation which proves the sale of the tool or the tools’ first date of usage. The term “DOCUMENTATION” as used in this paragraph is defined as a bill of sale, or letter of intent from the first retail customer. A WARRANTY REGISTRATION FORM THAT IS NOT ALSO ON RECORD WITH STANLEY WILL NOT BE ACCEPTED AS “DOCUMENTATION”.

NO ADDITIONAL WARRANTIES OR REPRESENTATIONS

This limited warranty and the obligation of Stanley thereunder is in lieu of all other warranties, expressed or implied including merchantability or fitness for a particular purpose except for that provided herein. There is no other warranty. This warranty gives the purchaser specific legal rights and other rights may be available which might vary depending upon applicable law.

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