

GR29 UNDERWATER HYDRAULIC GRINDER



SAFETY, OPERATION AND MAINTENANCE USER MANUAL





DECLARATION OF CONFORMITY

DECLARATION OF CONFORMITY ÜBEREINSTIMMUNGS-ERKLARUNG DECLARATION DE CONFORMITE CEE DECLARACION DE CONFORMIDAD DICHIARAZIONE DI CONFORMITA



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2.	Make/Marke/Marque/M	arca/Marca Sta	nley				
3.	Type/Typ/Type/Tipo/Tip	00:	GR2930101				
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IS	N ISO 30 30	3744:2009 792-7:1994 8662-4:1995	Self Self Self				

5. Special Provisions: None Spezielle Bestimmungen: Dispositions particulières: Provisiones especiales: Disposizioni speciali:

Machinery Directive

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Done at/Ort/Fait à/Dado en/Fatto a <u>Stanley Hydraulic Tools, Milwaukie, Oregon</u> USA Date/Datum/le/Fecha/Data 1-4-11

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Signature/Unterschrift/Signature/Firma/Firma	Andy Wish
Position/Position/Fonction/Cargo/Posizione_	Engineering Manager

2006/42/EC:2006

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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 THE STANLEY HYDRAULIC GRINDER. This manual contains safety, operation, and routine maintenance instructions. Servicing of hydraulic tools, other than routine maintenance, must be performed by an authorized and certified dealer. Please read the following warning.

A 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>.

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. Keep these instructions in an area accessible to the operator and maintenance personnel.



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 GR29 Underwater 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 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 operation.
- Do not operate the tool unless thoroughly trained or under the supervision of an instructor.
- Always wear safety equipment such as goggles, ear , gloves, breathing and head protection 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.

- Always connect hoses to the tool hose couplers before energizing the hydraulic power source. Be sure all hose connections are tight.
- 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 tool.
- To avoid personal injury or equipment damage, all tool repair, maintenance and service must only be performed by authorized and properly trained personnel.
- Always replace parts with replacement parts recommended by Stanley Hydraulic Tools.
- Check fastener tightness often and before each use daily.
- Do not tighten or loosen the wheel nut by impact. Hold the shaft with a second wrench on the the flats behind the wheel and tighten securely.
- Do not overreach. Maintain proper footing and balance at all times.
- When working near electrical conductors, always assume that all conductors are energized and that insulation, clothing and hoses can conduct electricity. Use hose labeled and certified as non-conductive when using the tool on or near electric lines.
- 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.



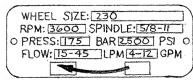
SAFETY PRECAUTIONS

- 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 cutting.
- 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.
- Always support and secure items being worked on.
- Caution when handling the work piece after grinding, object can be hot and have sharp edges, use your personal protection equipment.
- Keep your work area clean and clear of tripping hazards, oily surfaces and hoses laying about can be hazardous.
- Make sure adequate lighting is always available.
- 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.



TOOL STICKERS & TAGS





28811 Information Plaque



28322 CE Decal

> WARNING Grinding Wheel and Jam nut must be tightened with a wrench before use.

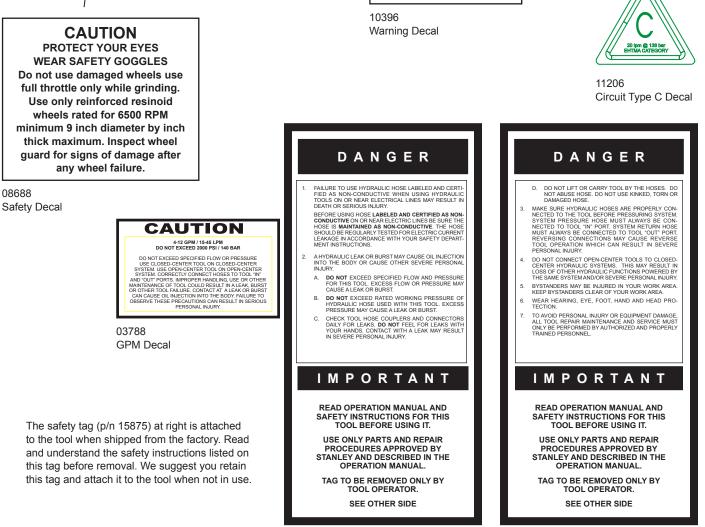


28409 Composite Decal



12535 Circuit Type E Decal





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.*

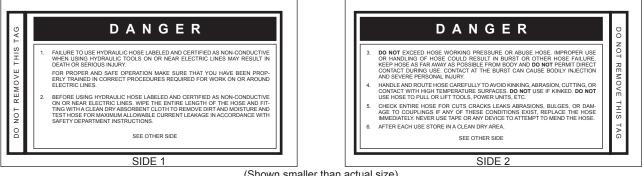
Fabric-braided (not certified or labeled non-conductive) — constructed of thermoplastic or synthetic rubber inner tube, synthetic fiber braid reinforcement, and weather resistant thermoplastic or synthetic rubber cover. *This hose is* **not** certified **non-conductive** and must never be used near electrical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



g Pressure	BAR		155	ORS	175	175	175	175	175	175	175	175	175	175	175	175	175	175	175
Min. Working Pressure	PSI	Trucks	2250	AL CONDUCT	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500
USE	(Press/Return)	Certified Non-Conductive Hose - Fiber Braid - for Utility Bucket Trucks	Both	Conductive Hose - Wire Braid or Fiber Braid -DO NOT USE NEAR ELECTRICAL CONDUCTORS	Both	Both	Both	Both	Pressure	Return	Both	Pressure	Return	Pressure	Return	Pressure	Return	Pressure	Return
iameter	MM	r Braid - for	10	NOT USE NE	10	13	13	16	16	19	16	16	19	19	25.4	16	19	19	25.4
Inside Diameter	INCH	Hose - Fibel	3/8	Braid -DO	3/8	1/2	1/2	5/8	5/8	3/4	5/8	5/8	3/4	3/4	۲	5/8	3/4	3/4	-
Hose Lengths	METERS	on-Conductive	up to 3	Braid or Fiber	up to 7.5	7.5-30	up to 15	15-30		08-00	up to 15	1 20	00-01	30.60	00-00	0 0 01 011	o o dn	000	00-0
Hose L	FEET	Certified No	up to 10	re Hose - Wire	up to 25	26-100	up to 50	51-100		000-001	up to 50	100	001-10		002-001	10 JE	c7 01 dn	001.00	20-100
wol:	LPM		15-34	Conductiv	15-23	15-23	19-40	19-40		18-40	38-49	01 00	00-4-0C	01 00	00-40 0	10 60	49-00	10 00	48-00
Oil Flow	GPM		4-9		4-6	4-6	5-10.5	5-10.5	ц С 7 Ц	0.01-0	10-13	07 07	2-12	07.07	<u> </u>	UT 07	0-5-	0 7 7	0 -2
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The chart to the right shows recommended minimum hose diameters for various hose lengths based on gallons per minute (gpm)/ liters per minute (lpm). These recommendations are intended to keep return line pressure (back pressure) to a minimum acceptable level to ensure maximum tool performance.

This chart is intended to be used for hydraulic tool applications only based on Stanley Hydraulic Tools tool operating requirements and should not be used for any other applications.

All hydraulic hose must have at least a ratec 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.

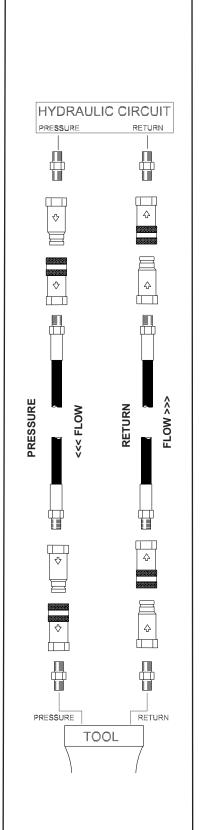


Figure 1. Typical Hose Connections

TOOL CATEGORY

	\land	D		
HYDRAULIC SYSTEM REQUIREMENTS			TYPE III	TYPE RR
FLOW RATE	4–6 gpm	7–9 gpm	11–13 gpm	9–10.5 gpm
	(15–23 lpm)	(26–34 lpm)	(42–49 lpm)	(34–40 lpm)
TOOL OPERATING PRESSURE	2000 psi	2000 psi	2000 psi	2000 psi
(At the power supply outlet)	(145–155 bar)	(138 bar)	(138 bar)	(138 bar)
SYSTEM RELIEF VALVE SETTING	2100–2250 psi	2100–2250 psi	2100–2250 psi	2200–2300 psi
(At the power supply outlet)	(145–155 bar)	(145–155 bar)	(145–155 bar)	(145–155 bar)
MAXIMUM BACK PRESSURE	250 psi	250 psi	250 psi	250 psi
(At tool end of the return hose)	(17 bar)	(17 bar)	(17 bar)	(17 bar)
Measured at a max. fluid viscosity of:	400 ssu*	400 ssu*	400 ssu*	400 ssu*
(At min. operating temperature)	(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 (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)	7 hp (4.47 kW) 40 °F (22 °C)	6 hp (5.22 kW) 40 °F (22 °C)
NOTE:				

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:	25 microns 30 gpm	25 microns 30 gpm	25 microns 30 gpm	25 microns 30 gpm
(For cold temp. start-up and max. dirt-holding capacity)	(114 lpm)	(114 lpm)	(114 lpm)	(114 lpm)
HYDRAULIC FLUID	100–400 ssu*	100–400 ssu*	100–400 ssu*	100–400 ssu*
Petroleum based (Premium grade, anti-wear, non-conductive) VISCOSITY (At min. and max. operating temps)		(20–82 c	entistokes)	

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



OPERATION

PREOPERATION PROCEDURES

CHECK THE POWER SOURCE

- 1. Using a calibrated flowmeter and pressure gauge, check that the hydraulic power source develops a flow of 4-12 gpm/15-45 lpm at 950-2000 psi/67-140 bar.
- 2. Make certain that the hydraulic power source is equipped with a relief valve set to open at 2100-2250 psi/145-155 bar minimum.
- 3. Check that the hydraulic circuit matches the tool for open-center (OC) or closed-center (CC) operation.

CHECK THE TOOL

- 1. Make sure all tool accessories are correctly installed. Failure to install tool 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.
- 2. Check that the trigger is set to disengage the grinder when released.

CHECK HANDLE

Check that the cross handle is securely screwed into the handle bracket. Remove any oil from the handle.

CHECK AND ADJUST WHEEL GUARD

- 1. Inspect the wheel guard for cracks and other structural damage.
- If necessary, adjust the position of the wheel guard by loosening the two capscrews on the guard clamp. Make sure the capscrews are tightened securely after adjustment.

INSTALLING AND REMOVING GRINDING WHEEL

- 1. Remove and set aside the jam nut from the output shaft.
- 2. Position the grinding wheel over the shaft.
- 3. Screw the jam nut down onto the spindle shaft. Tighten the nut securely by using two open-end wrenches, one wrench on the flats of the spindle shaft, the other wrench on the jam nut.
- 4. Remove the grinding wheel by loosening the jam nut as in Step 3.

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.

USE OF DEPRESSED-CENTER WHEEL ADAPTER

The Depressed-Center Wheel Adapter (part number 05194) must be used with wheels having a cupped or depressed center.

CONNECT HOSES

- 1. Wipe all hose couplers with a clean lint-free cloth before making connections.
- 2. Connect the hoses from the hydraulic power source to the tool fittings or quick disconnects. It is good practice to connect return hoses first and disconnect them last to minimize or avoid trapped pressure within the tool.
- 3. Observe the arrow on the couplers to ensure that the flow is in the proper direction. The female coupler on the tool is the inlet (pressure) coupler.
- 4. Move the hydraulic circuit control valve to the "ON" position to operate the tool.
- 5. Squeeze the grinder trigger momentarily. If the grinder does not operate, the hoses might be reversed. Verify correct connection of the hoses before continuing.

NOTE:

If uncoupled hoses are left in the sun, pressure increase inside the hose may make them difficult to connect. Whenever possible, connect the free ends of the hoses together.



OPERATION

TOOL OPERATION

For best results, use only Stanley approved accessories. They have been designed and selected to get the most from the tool.

Review the Safety Precautions given at the front of this manual before operating the tool.

Remember to grip the tool with both hands at all times during startup and operation and be sure you have full balance before starting grinder rotation. Always keep your body away from the "plane of rotation" of the grinding wheel.

Always start the grinder with the wheel away from the work surface. Start hydraulic flow at one gpm and slowly increase flow to a level that produces desired efficiency, but allows the operator to maintain full balance and control.



Starting the hydraulic grinder on the work with full hydraulic flow can push the operator off balance, creating a condition that can cause severe personal injury.

Refer to the Troubleshooting section of this manual to isolate other possible conditions that can lower tool efficiency.

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 $^{\circ}$ F/10 $^{\circ}$ C (400 ssu/82 centistokes) before use.

Damage to the hydraulic system or grinder can result from use with fluid that is to viscous or too thick.



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 (see Specifications) page in this manual for correct flow rate and model number. Rapid failure of the internal seals may result.
- Always keep critical tool markings, such as warning stickers and tags legible.
- 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 make sure 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 fluid temperature at least 80 °F/27 °C.

PROBLEM	CAUSE	SOLUTION	
Low performance.	Incorrect hydraulic flow.	Check that the power source is pro- ducing 4–12 gpm/15–45 lpm at 1000–2000 psi/70–140 bar.	
	Defective quick disconnects.	Check quick disconnects.	
Fluid leaks at motor cap assembly face.	Fasteners loose.	Tighten to recommended torque value.	
	Face O-ring worn or missing.	Replace as required.	
	Motor cap assembly/main housing damaged.	Replace as required.	
Fluid leaks at reversing spool.	Damaged O-rings.	Replace as required. Refer to assembly instructions to prevent cutting the O-rings.	
	Wrong hydraulic fluid. Circuit too hot.	See Hydraulic System Requirements for correct fluid/circuit specifications.	
	Hydraulic pressure and return re-versed.	Correct hose connections.	
Fluid gets hot, power unit work- ing hard.	Open-center tool on a closed-center circuit and vice versa.	Use tool to match circuit.	
	Too much fluid going through tool.	Adjust flow for 12 gpm/34 lpm maxi- mum.	
	Circuit is generating high heat with flow controls, open relief valve, etc.	Use pump size and rpm for produc- ing needed flow only. Eliminate circuit heating cause.	
	Circuit has contaminants that have caused pump and valve wear and high heat generation.	Replace worn pump and valves. In- stall a large clean filter and keep cir- cuit fluid clean.	
Tool doesn't run.	Power unit not functioning.	Check that the power source is pro- ducing 4–12 gpm/15–45 lpm at 1000–2000 psi/70–140 bar.	
	Coupler or hoses blocked.	Remove obstruction.	
	Mechanical failure.	Disassemble tool and inspect for damage.	
Tool runs backwards.	Pressure and return hoses reversed.	Correct for proper flow direction. Grinding wheel should rotate counter- clockwise when viewed from the shaft end.	
Grinding wheel comes to abrupt	Porting spool incorrectly assembled.	Refer to Service Manual.	
stop after trigger is released.	Check valve in trigger spool not func- tioning correctly.	Replace trigger spool assembly. Check valve not serviceable.	
	Mechanical failure.	Disassemble tool and inspect for damage.	



SPECIFICATIONS

Capacity	
Weight (with Wheel Guard)	15 lbs/6387 kg
Length	
Width (without Wheel Guard)	
Pressure	
Flow Range	
Optimum Flow	
Porting	8 SAE O-ring
Connect Size and Type	
Hose Whips	
Motor	

SOUND POWER AND VIBRATION DECLARATION

Test conducted on GR29310, S/N 1989 operated at standard 10 gpm input	
Measured A-weighted sound power level, Lwa (ref. 1pW) in decibels	105 dBA
Measured A-weighted sound pressure level, Lpa (ref. 20 µPa) at operator's position, in decibels	97 dBA
Values determined assorting to point test and given in using the basis standard ISO 2744	

Values determined according to noise test code given in using the basic standard ISO 3744

NOTE: The sum of a measured noise emission value and its associated uncertainty represents an upper boundary of the range of values which is likely to occur in measurements.

Declared vibration emission value in accordance with EN 12096

Measured vibration emission value: a (Throttle Handle)	1.0 m/sec ²	
Uncertainty: K (Throttle Handle)	0.15 m/sec ²	
Measured vibration emission value: a (Support Handle)	2.1 m/sec ²	
Uncertainty: K (Support Handle) 0.20 m/sec		
Values determined according to ISO 8662-1, ISO 8662-4, ISO 5349-1		

ACCESSORIES

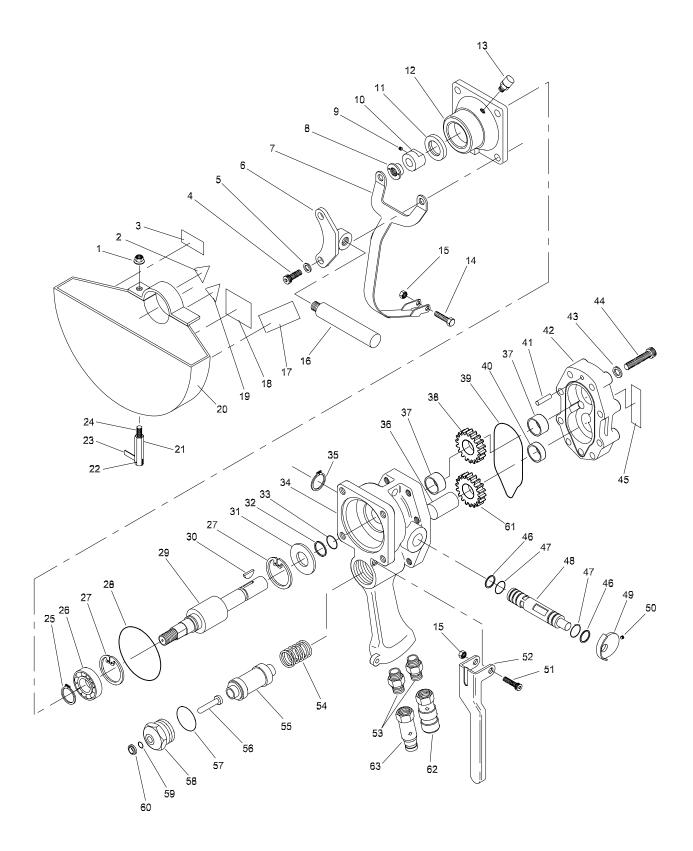
Description

Part Number

Grinding Wheel for Metal 9 in. Diameter × 5/8 in11 THD Arbor	02587
Grinding Wheel for Masonry 9 in. Diameter × 5/8 in11 THD Arbor	
Grinding Wheel 7 in. \times 5/8 in11 THD Arbor	
Depressed Center Wheel Adapter	05194



GR29 PARTS ILLUSTRATION





GR29 PARTS LIST

ITEM NO.	P/N	QTY	DESCRIPTION
1		1	NUT
2	11206	1	CIRCUIT TYPE "C" DECAL (CE ONLY)
3	28322	1	CE DECAL (CE ONLY)
4	00230	4	CAPSCREW
5	00231	2	LOCKWASHER
6	13796	2	DEAD HANDLE BRACKET WELDMENT
7	12285	1	TRIGGER GUARD
8	16495	1	HUB NUT
9	00599	1	SETSCREW
10	28913	1	DRIVE FLANGE
11	13812	1	SHAFT SEAL
12	13790	1	BEARING CARRIER
13	01220	1	GREASE FITTING
14	12470	1	CAPSCREW
15	07724	2	NUT
16	08130	1	HANDLE
17	28811	1	INFORMATION PLAQUE
18	28409	1	COMPOSITE SAFETY DECAL (CE ONLY)
19	12535	1	CIRCUIT TYPE "E" DECAL (CE ONLY)
20	11937 08322	1	WHEEL GUARD WHEEL GUARD GR29310 ONLY
21	12290	1	CLAMP SCREW
	12289	1	CLAMP SCREW ASSY (INCL ITEMS 21–24)
22	00285	1	ROLL PIN
23	12291	1	THUMB PLATE
24	12786	1	STUD
25	00672	1	RETAINING RING
26	13813	1	BALL BEARING
27	00166	2	RETAINING RING
28	00149	1	O-RING
29	13791	1	SPINDLE SHAFT
30	13828	1	WOODRUFF KEY
31	07987	1	BACK-UP WASHER
32	09396	1	BACK-UP RING
33	08017	1	O-RING
34	12286	1	MAIN HOUSING
35	09275	1	RETAINING RING
36	07991	1	IDLER SHAFT
37	08014	2	BUSHING
38	13783	1	DRIVE GEAR
39	08023	1	O-RING
40	07978	1	BUSHING

ITEM NO.	P/N	QTY	DESCRIPTION
41	372055	1	DOWEL PIN
42	13789	1	MOTOR CAP ASSY.
43	00812	8	WASHER
44	01870	8	CAPSCREW
45	13778	1	NAME TAG
46	08015	2	BACK-UP RING
47	01211	2	O-RING
48	08002	1	REVERSING SPOOL
49	17061	1	VALVE KEEPER
50	00580	1	SETSCREW
51	00786	1	CAPSCREW
52	12283	1	TRIGGER
53	00936	2	ADAPTER
54	07988	1	SPRING
55	13781	1	SPOOL ASSY.
56	23678	1	HEADED PUSH PIN
57	06533	1	O-RING
58	22063	1	SPOOL CAP
59	00026	1	O-RING
60	22064	1	ROD WIPER
61	07989	1	IDLER GEAR ASSY.
62	03972	1	FEMALE COUPLER
63	03973	1	MALE COUPLER
	03971	1	COUPLER SET
	16969	1	SEAL KIT
	12815	1	WHEEL NUT SPANNER WRENCH





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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).