STANLEY

DR19 HYDRAULIC DIGGER



USER MANUALSafety, Operation and Maintenance







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IMPORTANT

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

(NOTE: The warranty Validation record 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> <u>to the equipment</u>.

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 or on the tool and hose(s).

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

Supervising personnel may specify additional precautions for your work area to comply with company policies and local safety regulations. Enter any added precautions in the space provided in this manual.

The DR19 Hydraulic Digger will provide safe, dependable service if operated in accordance with the instructions given in this manual. Read and understand the manual any decals, labels, or tags attached to the tool and hose(s). Failure to do so can cause serious personal injury or damage to the equipment.







- 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 of the tool.
- Do not operate the tool unless thoroughly trained or under the supervision of the instructor.
- Always wear personal protection equipment (PPE) such as goggles, safety shoes, head, eye, breathing, and ear protection when operating the tool. Use gloves and aprons when necessary.
- Do not inspect or clean the tool while the hydraulic power source is connected. Accidental engagement of the equipment can 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. Use only lint-free cloths. Failure to do so may result in damage to the quick couplers and cause overheating of the hydraulic system.
- Do not operate the tool at fluid 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.
- Keep the hydraulic fluid clean at all times. Contami-

- nated fluid causes rapid wear and early failure of internal parts.
- Do not operate the tool if it is damaged, improperly adjusted, or incompletely assembled.
- Do not weld, cut with an acetylene torch or hardface the tool bit.
- To avoid personal injury or equipment damage, all tool maintenance, repair, and service must be performed by properly trained personnel.
- Do not exceed the rated limits of the tool or use the tool for applications beyond its design capacity.
- Check fastener tightness often and before each use daily.
- Never operate the tool if you cannot be sure that underground utilities are not present.
- Never wear loose clothing or unrestrained long hair that can get entangled in the working parts of the tool.
- Keep your work area clean and clear of tripping hazards. Oily surfaces and hoses lying around can be hazardous.
- Be alert and cautious around any pressurized hydraulic system. High-pressure oil can be very dangerous. Know your equipment and operate it properly.
- Ensure adequate lighting for the area where the tool is being used.
- Use proper lifting techniques when handling the tool. Do not overreach. Maintain secure footing and balance at all times.
- Make sure all critical tool markings, such as labels and warning decals, are securely in place and legible. Replace any that are damaged or missing.
- Always replace hoses, couplings, and other parts with replacement parts recommended by Stanley Hydraulic Tools. Refer to the parts list at the end of this manual for part numbers.
- 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.

TOOL STICKERS & TAGS



Stanley Hydraulic Tools 3810 SE Naef Rd Milwaukie, Oregon 97267 U.S.A.

Model No.

DR19

26-34 lpm/7-9 gpm 140 bar/2000 psi

28853 Name Tag

CAUTION

7-9 GPM / 26-34 LPM DO NOT EXCEED 2000 PSI / 140 BAR

DO NOT EXCEED SPECIFIED FLOW OR PRESSURE USE CLOSED-CENTER TOOL ON CLOSED-CENTER SYSTEM. USE OPEN-CENTER TOOL ON CLOSED-CENTER SYSTEM. CORRECTLY CONNECT HOSES TO TOOL 'IN' AND 'OUT' POORTS. IMPROPER HANDLING USE OR OTHER MAINTENANCE OF TOOL COULD RESULT IN A LEAK, BURST OR OTHER TOOL FAILURE CONTACT AT A LEAK OR BURST CAN CAUSE OIL INJUCTION INTO THE BODY, FAILURE TO OBSERVE THESE PRECAUTIONS CAN RESULT IN SERIOUS PERSONAL INJURY.

03786 **GPM 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.

DEATH ON SERIOUS INJURY.

BEFORE USING HOSE LABELED AND CERTIFIED AS NONCOMDUCTIVE ON OR NEAR ELECTRICLINES BE SURE THE
HOSE IS MAINTAINED AS NON-COMDUCTIVE 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

Tool to Hydraulic Circuit Hose Recommendations

lions are intended to keep return line pressure The chart to the right shows recommended minimum hose diameters for various hose 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 All hydraulic hose must have at least a rated tool applications only based on Stanley Hyshould not be used for any other applications.

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 F	Oil Flow	Hose L	Hose Lengths	Inside D	Inside Diameter	USE	Min. Working Pressure	ng Pressure
ВЫ	LPM	FEET	METERS	HONI	MM	(Press/Return)	PSI	BAR
		Certified No	Certified Non-Conductive Hose - Fiber Braid - for Utility Bucket Trucks	Hose - Fibe	r Braid - for	Utility Bucket	Trucks	
4-9	15-34	up to 10	up to 3	8/8	10	Both	2250	155
	Conducti	Conductive Hose - Wire Braid or Fiber Braid -DO NOT USE NEAR ELECTRICAL CONDUCTORS	Braid or Fiber	Braid -DO	NOT USE NE	AR ELECTRIC	AL CONDUCT	ORS
9-4	15-23	up to 25	up to 7.5	8/8	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	8/9	16	Both	2500	175
7. 7.	0,7	700	00	8/9	16	Pressure	2500	175
5-10.5	04-8-	006-001	06-00	3/4	19	Return	2500	175
10-13	38-49	up to 50	up to 15	8/9	16	Both	2500	175
2	00	7	7 7 0 0	8/9	16	Pressure	2500	175
SI-01	00 94-00	001-16	05-61	3/4	19	Return	2500	175
7	20 40	700	00	3/4	19	Pressure	2500	175
21-01	94-00	002-001	00-00	1	25.4	Return	2500	175
10 16	000	3C C+ C:	0 0	2/8	16	Pressure	2500	175
0 -0	00-84	07 OJ dn	o 01 dn	3/4	19	Return	2500	175
707	00	76.400	0	3/4	19	Pressure	2500	175
13-10	49-00	70-100	05-0	7	25.4	Return	2500	175

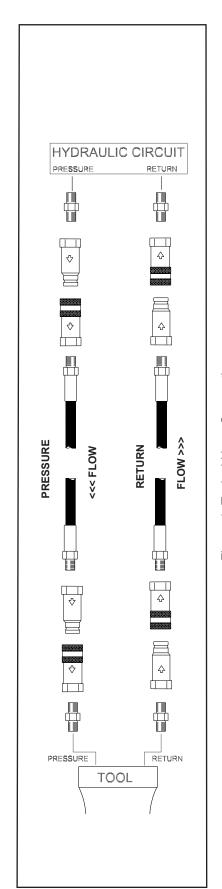


Figure 1. Typical Hose Connections

HTMA / EHTMA REQUIREMENTS

HTMA / EHTMA REQUIREMENTS

HTMA	TOOL TYPE			
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:	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)
Do not operate the tool at oil temperatures above 140° F 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	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 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

CLASSIFICATION EHTMA HYDRAULIC SYSTEM **REQUIREMENTS** 3.5-4.3 gpm Flow Range 4.7-5.8 gpm 7.1-8.7 gpm 9.5-11.6 gpm 11.8-14.5 gpm (13.5-16.5 lpm) (18-22 lpm) (27-33 lpm) (36-44 lpm) (45-55 lpm) Nominal Operating Pressure 1870 psi 1500 psi 1500 psi 1500 psi 1500 psi (at the power supply outlet) (129 bar) (103 bar) (103 bar) (103 bar) (103 bar) System relief valve setting 2495 psi 2000 psi 2000 psi 2000 psi 2000 psi (at the power supply outlet) (172 bar) (138 bar) (138 bar) (138 bar) (138 bar)

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



OPERATION

PREOPERATION PROCEDURES PREPARATION FOR INITIAL USE

The tool, as shipped, has no special unpacking or assembly requirements prior to usage. Inspection to assure the tool was not damaged in shipping and does not contain packing debris is all that is required.

CHECK HYDRAULIC POWER SOURCE

- Using a calibrated flowmeter and pressure gauge, check that the hydraulic power source develops a flow of 7–9 gpm/26–34 lpm at 1500–2000 psi/105– 140 bar.
- 2. Make certain the hydraulic power source is equipped with a relief valve set to open at 2100–2250 psi/145–155 bar minimum.
- 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.

INSTALL TOOL BIT

The tool accepts standard $7/8 \times 3-1/4$ inch hex shank tool bits.

TO INSTALL A HEX SHANK TOOL BIT

 Push in the retainer, insert the hex shank tool bit and move the retainer back into locked position. Note the orientation of the particular tool bit that is being installed.

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 tool. It is a good practice to connect the return hose first and disconnect it last to minimize or avoid trapped pressure within the tool.
- 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.
- Move the hydraulic circuit control valve to the ON position.
- Place the tool bit firmly on the surface you are to work on.
- Squeeze the trigger to start the tool. Adequate down pressure is very important.



Not for underwater use.

COLD WEATHER OPERATION

If the tool 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.

STORAGE

- 1. Disconnect the tool from the hydraulic power source.
- 2. Remove the tool bit and spray the tool bit retainer area with WD-40™ inside and out.
- 3. Wipe clean and store in a clean, dry place.

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 couples 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 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.
- Do not force a small tool to do the job of a large breaker.
- Keep tool bit sharp for maximum tool performance.
 Make sure that tool bits are not chipped or rounded on the striking end.
- Never operate a tool without a tool bit or without holding it against the work surface. This puts excessive strain on the breaker foot.
- 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.

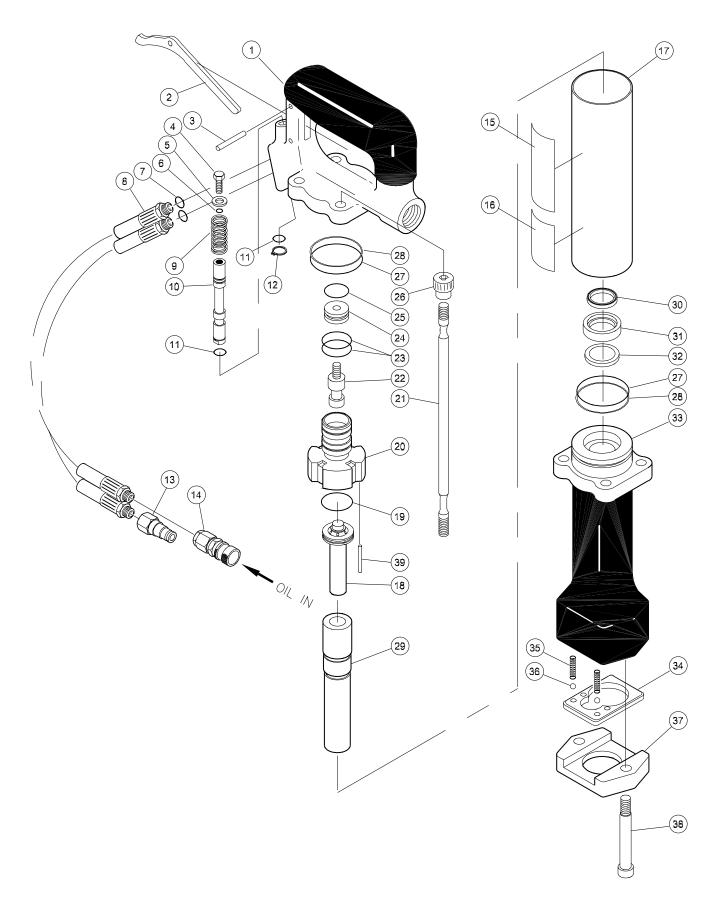
TROUBLESHOOTING

Problem	Cause	Solution
Tool does not run.	Power unit not functioning.	Check power unit for proper flow and pressure (7–9 gpm/26–34 lpm, 1500–2000 psi/105–140 bar).
	Couplers or hoses blocked.	Remove restriction.
	Pressure and return line hoses reversed at ports.	Be sure hoses are connected to their proper ports.
	Mechanical failure of piston or internal parts.	Have inspected and repaired by authorized dealer.
Tool does not hit effectively.	Power unit not functioning.	Check power unit for proper flow and pressure (7–9 gpm/26–34 lpm, 1500–2000 psi/105–140 bar).
	Couplers or hose blocked.	Remove restriction.
	Fluid too hot (above 140 °F/60 °C).	Provide cooler to maintain proper fluid temperature.
	Incorrect tool bit.	Ensure tool bit meets specifications.
Tool operates slow.	Low oil flow from power unit.	Check power source for proper flow.
	High back-pressure.	Check hydraulic system for excessive back-pressure and correct as required.

SPECIFICATIONS

Weight	24 lbs/10.9 kg
	1500–2000 psi/105–140 bar
Flow Range	7–9 gpm/26–34 lpm
	8 gpm/30 lpm
Porting	3/8" male pipe hose end
	20 inches/51 cm
System Type	Open Center
Accessory Shank	

DR19 PARTS ILLUSTRATION



DR19 PARTS LIST

ITEM	PART NO.	QTY	DESCRIPTION
1	02890	1	HANDLE BODY ASSEMBLY
2	02853	1	TRIGGER
3	24316	1	DOWEL PIN 3/16 × 1-1/2
4	02959	1	SPOOL SCREW
5	24348	1	WASHER
6	02901	1	O-RING .239 × .367 × .064
7	03252	2	O-RING 7/16 × 9/16 × 1/16
8	01412	2	HOSE ASSEMBLY
9	02846	1	SPRING
10	02881	1	ON/OFF SPOOL, OPEN CENTER
11	03252	2	O-RING
12	00752	1	RETAINING RING 7/16 EXT
13	03973	1	MALE COUPLER BODY
14	03972	1	FEMALE COUPLER BODY
15	28853	1	NAME TAG
16	03786	1	GPM STICKER
17	02869	1	FLOW SLEEVE ASSEMBLY
18	03958	1	OIL TUBE
19	01259	1	O-RING 1-1/2 × 1-5/8 × 1/16
20	03253	1	VALVE BODY
21	02848	4	BOLT ASSEMBLY
22	02880	1	REVERSING SPOOL
23	00211	2	O-RING 1 × 1-1/8 × 1/16
24	03254	1	VALVE GLAND
25	01772	1	O-RING 3/4 × 7/8 × 1/16
26	02454	4	ALLEN NUT (INCL WITH ITEM 21)
27	02177	1	O-RING 2-1/16 × 2-1/4 × 3/32
28	02865	1	BACK-UP RING
29	03959	1	PISTON
30	02907	1	ROD SEAL 1-1/4 × 1-1/2 × 5/16 × 3/16
31	04175	1	INSERT
32	03127	1	WIPER RING
33	03537	1	RETAINING NOSE ASSEMBLY
34	03536	1	RETAINER
35	03190	2	SPRING
36	02436	2	BALL
37	03552	1	RETAINER CAP
38	03553	2	CAPSCREW 3/8 × 24 × 2-1/2
39	02843	1	PIN

SEAL KIT PART NUMBER 03331				
02901	O-RING	1		
03252	O-RING	2		
02865	BACK-UP RING	2		
02177	O-RING	2		
03127	ROD WIPER	1		
02302	ROD SEAL	1		
01259	O-RING	1		
01772	O-RING	1		
00211	O-RING	2		
02907	ROD SEAL	1		

REPAIR KIT PART NUMBER 03943				
00752	RETAINING RING	1		
02848	BOLT ASSEMBLY	2		
02843	PIN	1		
03536	RETAINER	1		
03190	SPRING	2		
02436	BALL	2		
03331	SEAL KIT	1		

STANLEY®

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