

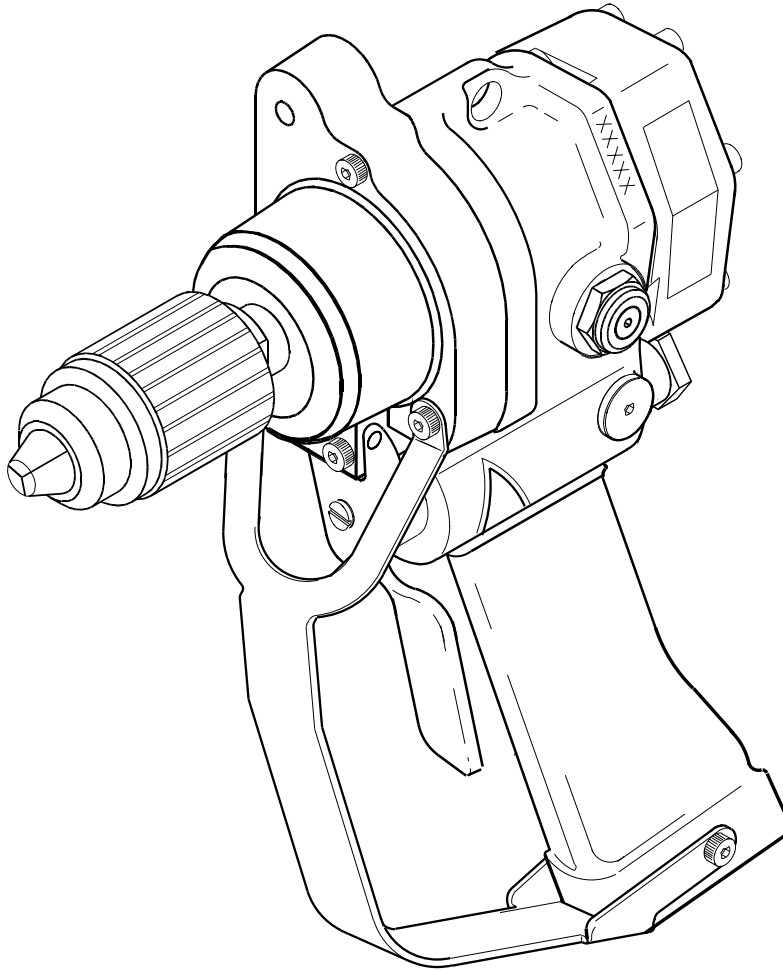


User's Manual

DL09 Hydraulic Drill

This Manual Covers The Following Models:

- DL09150
- DL09152S
- DL09152SN
- DL09152SUP
- DL09172S
- DL09172SN
- DL09550D
- DL0955001
- DL09652
- DL0965201



(Depth Rod Not Pictured)



⚠ 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.

Table of Contents

DLO9

Hydraulic Drill

SERVICING THE DLO9 HYDRAULIC DRILL:

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.

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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

I, the undersigned: Winterling, David

Surname and First Names

hereby certify that the construction plant or equipment specified hereunder:

1. Category: **Drill**
2. Make: **Stanley**
3. Type: **DL0955001, & DL0965201**
4. Type Serial Number of equipment: ALL
5. Year of manufacture: **Stamped on tool**

Has been manufactured in conformity with- EEC Type examination as shown:

Directive: **EN792-3** Approved body: **Self**
EN28662-1
EN ISO 3744
Date: **2001** Date of expiration: **N/A**

6. Special Provisions: **None**

Done at: **Stanley Hydraulic Tools, Milwaukie, Oregon USA** Date: **2002**


Signature: 

Position: **Engineering Manager**

Specifications

Drive Size _____ 1/2 in./ 1.3 cm 3-Jaw Adjustable
5/8 - 16 THD Chuck
Pressure Range _____ 1000-2000 psi / 70-140 bar
Flow Range _____ 4-12 gpm / 15-45 lpm
Optimum Flow _____ 8 gpm / 30 lpm
System Type __ open or closed center, HTMA TYPE I-III
Porting _____ -8 SAE O-ring
Connect Size & Type ___ 3/8 in. NPT Male Adapter
Weight _____ 6 lbs. / 2.7 kg
Overall Length _____ 9 in. / 23 cm
Width _____ 3-1/2 in. / 9 cm
Motor _____ Integral

Drill Torque ___ 20 ft lbs / 27 Nm at 2000 psi/ 140 bar
Drill Speed _____ 1000 rpm at 8 gpm/ 30 lpm
RPM Range _____ 350-1500
Max. Fluid Temp. _____ 140° F / 60° C
HTMA Class II _____ 7-9 gpm @ 2000 psi

 EHTMA Category ___ 30 lpm @ 138 bar

Weighted Vibration Level _____ 1.2(m/s²)
Sound Pressure Level _Less than 85 dBA @ 1 m

DL09 TORQUE AND DRILL SPEEDS			
TORQUE (proportional to Oil Pressure)		Drill Speed (proportional to Oil Flow)	
USA	METRIC	HYDRAULIC FLOW	DRILL SPEED
4 ft-lb @ 500 psi	5 Nm @ 35 bar	3 gpm (11.3 lpm)	350 rpm
9 ft-lb @ 1000 psi	12 Nm @ 70 bar	4 gpm (15 lpm)	475 rpm
14 ft-lb @ 1500 psi	19 Nm @ 105 bar	6 gpm (23 lpm)	750 rpm
19 ft-lb @ 2000 psi	26 Nm @ 140 bar	8 gpm (30 lpm)	1000 rpm
		10 gpm (38 lpm)	1250 rpm

General Safety Instructions

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

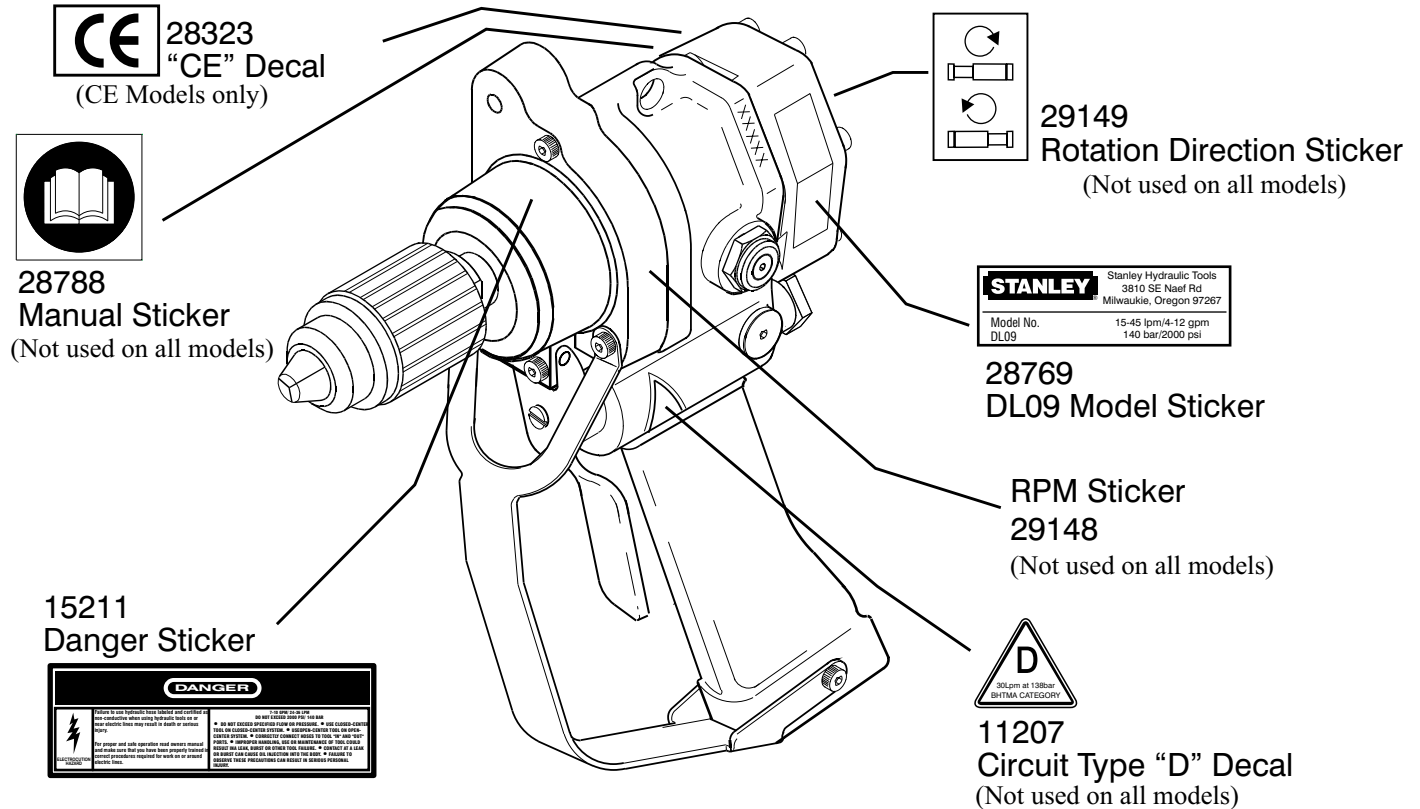


This tool will provide safe and dependable service if operated in accordance with the instructions given in this manual. Read and understand this manual and any stickers and tags attached to the tool and hoses before operation. Failure to do so could result in personal injury or equipment damage.

- 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 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.
- 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.

Tool Decals & Tags

A model sticker is attached to the tool. Never exceed the flow and pressure levels specified on this sticker. The information listed on the DL09 model 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.



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.

<p>1. 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.</p> <p>BEFORE USING HOSE LABELED AND CERTIFIED AS NON-CONDUCTIVE ON OR NEAR ELECTRICAL LINES, BE SURE THE HOSE IS MAINTAINED AS NON-CONDUCTIVE. THE HOSE SHOULD BE REGULARLY TESTED FOR ELECTRIC CURRENT LEAKAGE IN ACCORDANCE WITH YOUR SAFETY DEPARTMENT INSTRUCTIONS.</p> <p>2. A HYDRAULIC LEAK OR BURST MAY CAUSE OIL INJECTION INTO THE BODY OR CAUSE OTHER SEVERE PERSONAL INJURY.</p> <p>A. DO NOT EXCEED SPECIFIED FLOW AND PRESSURE FOR THIS TOOL. EXCESS FLOW OR PRESSURE MAY CAUSE A LEAK OR BURST.</p> <p>B. DO NOT EXCEED RATED WORKING PRESSURE OF HYDRAULIC HOSE USED WITH THIS TOOL. EXCESS PRESSURE MAY CAUSE A LEAK OR BURST.</p> <p>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.</p>	<p>D. DO NOT LIFT OR CARRY TOOL BY THE HOSES. DO NOT ABUSE HOSE. DO NOT USE KNEED, TORN OR DAMAGED HOSES.</p> <p>3. MAKE SURE HYDRAULIC HOSES ARE PROPERLY CONNECTED 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.</p> <p>4. DO NOT CONNECT CLOSED-CENTER TOOLS TO OPEN-CENTER HYDRAULIC SYSTEMS. THIS MAY CAUSE EXTREME SYSTEM HEAT AND/OR SEVERE PERSONAL INJURY.</p> <p>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.</p> <p>5. BYSTANDERS MAY BE INJURED IN YOUR WORK AREA. KEEP BYSTANDERS CLEAR OF YOUR WORK AREA.</p> <p>6. WEAR HEARING, EYE, FOOT, HAND AND HEAD PROTECTION.</p> <p>7. TO AVOID PERSONAL INJURY OR EQUIPMENT DAMAGE, ALL TOOL REPAIR, MAINTENANCE AND SERVICE MUST BE PERFORMED BY AUTHORIZED AND PROPERLY TRAINED PERSONNEL.</p>
<p>IMPORTANT</p> <p>READ OPERATION MANUAL AND SAFETY INSTRUCTIONS FOR THIS TOOL BEFORE USING IT.</p> <p>USE ONLY PARTS AND REPAIR PROCEDURES APPROVED BY STANLEY AND DESCRIBED IN THE OPERATION MANUAL.</p> <p>TAG TO BE REMOVED ONLY BY TOOL OPERATOR.</p>	<p>IMPORTANT</p> <p>READ OPERATION MANUAL AND SAFETY INSTRUCTIONS FOR THIS TOOL BEFORE USING IT.</p> <p>USE ONLY PARTS AND REPAIR PROCEDURES APPROVED BY STANLEY AND DESCRIBED IN THE OPERATION MANUAL.</p> <p>TAG TO BE REMOVED ONLY BY TOOL OPERATOR.</p>
<p>(517) SEE OTHER SIDE 15875</p>	<p>(517) SEE OTHER SIDE 15875</p>

Hydraulic Hose Requirements

HOSE TYPES

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

- 1 Certified non-conductive
- 2 Wire-braided (conductive)
- 3 Fabric-braided (not certified or labeled non-conductive)

Hose 1 listed above is the only hose authorized for use near electrical conductors.

Hoses 2 and 3 listed above are **conductive** and **must never** be near electrical conductors.

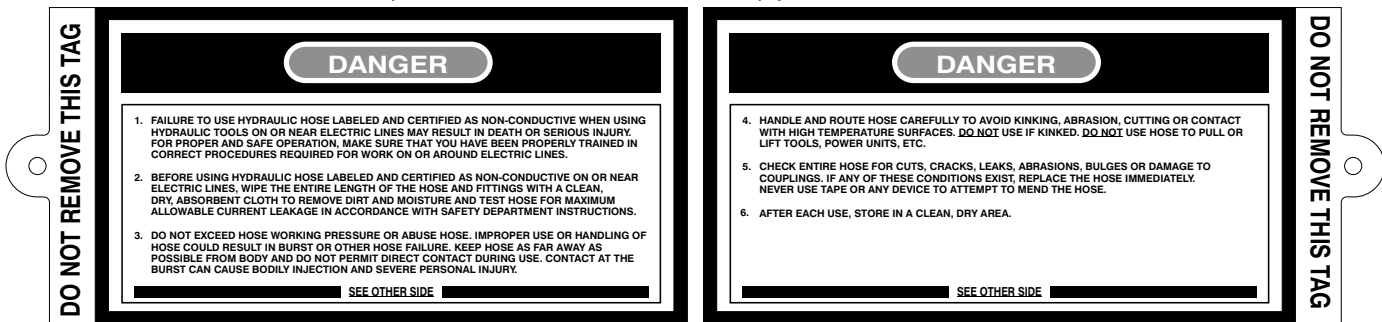
HOSE SAFETY TAGS

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

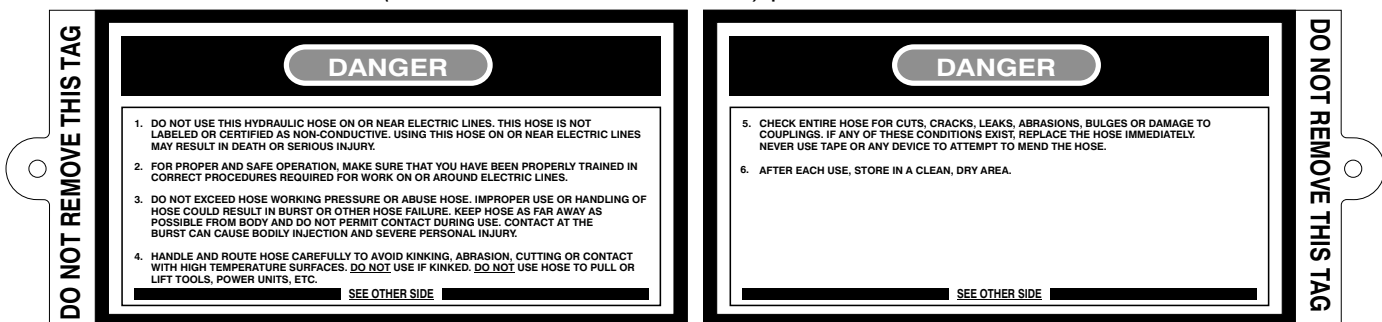


Side 1

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

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

Tool Category

Hydraulic System Requirements	  			Type III
	Type I	Type II	Type III	
Flow rate Tool Operating Pressure <i>(at the power supply outlet)</i>	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 <i>(at the power supply outlet)</i>	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 <i>(at tool end of the return hose)</i>	200 psi (14 bar)	200 psi (14 bar)	200 psi (14 bar)	200 psi (14 bar)
Measured at a max. fluid viscosity of: <i>(at min. operating temperature)</i>	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: <i>(at max. expected ambient temperature)</i>	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)
<p>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.</p>				
Filter Min. full-flow filtration Sized for flow of at least: <i>(For cold temp. startup and max. dirt-holding capacity)</i>	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 <i>(premium grade, anti-wear, non-conductive)</i> Viscosity <i>(at min. and max. operating temps)</i>	100-400 ssu* (20-82 centistokes)	100-400 ssu* (20-82 centistokes)	100-400 ssu* (20-82 centistokes)	100-400 ssu* (20-82 centistokes)
<p>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.</p>				

* ssu = Saybolt Seconds Universal

Hydraulic Recommendations

SPECIFICATIONS

Fluids for Mobile Hydraulic Tool Circuits

The specification listed here will provide good all season operation if your circuit is of proper design and normal maintenance is performed.

(Periodic filter change, draining of condensate, etc.)

ITEM	U.S.A.	METRIC
Viscosity (Fluid Thickness)	50° F 450 SSU Max	10° C 95 Centistokes Max.
Viscosity (Fluid Thickness)	100° F 130-225 SSU	38° C 27-42 Centistokes
Viscosity (Fluid Thickness)	140° F 85 SSE Min.	60° C 16.5 Centistokes Min.
Pour Point (Min. for cold startup)	-10° F	23° C
Viscosity Index	(ASTM D2220) 140 Minimum	
Demulsibility	(ASTM D1401) 30 Minutes Max.	
Flash Point	(ASTM D92) 340° F Min.	
Rust Inhibition	(ASTM D665 A&B) Pass	
Oxidation	(ASTM D943) 1000 Hours Min.	
Pump Wear Test	(ASTM D2882) 60 mg Max.	

RECOMMENDED FLUIDS

Recommended Fluids

The fluids listed here work well over a wide temperature range at start-up, allow moisture to settle out, and resist biological growth likely in cool-operating hydraulic Circuits.

These fluids are recommended by Stanley Hydraulic Tools for use in our tools. Other fluids that meet or exceed the specifications of these fluids may also be used.

BRAND	BIODEGRADABLE	DESCRIPTION
AMS-Oil	No	Hydraulic Fluid MN 150 SSU, 100 V.I.
Chevron	No	AW-MV-32
Exxon	No	"Univis" J-26
Mobil	No	D.T.E. 13
Gulf	No	"Harmony" AW-HVI-1 50-32
Shell	No	"Lo-Hydraulic" 32
Sun	No	"Sunvis" 805 MG
Texaco	No	"Rando" HD-AZ
Union	No	"Unax" AW-WR-32
Mobil	Yes	EAL 224H
Texaco	Yes	BioStar 32
Terresole	Yes	EnviroLogic 132
Shell	Yes	Naturelle HF-E-32
Pennzoil	Yes	Pennzsafe SI200

Operating Instructions

⚠ CAUTION

Make certain that the chuck has been securely mounted.

Check Power Source

1. Using a calibrated flowmeter and pressure gauge during the initial set-up, check that the hydraulic power source develops a flow of 4-12 gpm/ 15-45 lpm at 1000-2000 psi/ 70-140 bar.
2. Make certain that the hydraulic power source is equipped with a relief valve set to open at 2100 psi/ 145 bar maximum.

Connect Hoses

1. Wipe all hose couplers with a clean lint-free cloth before making connections.
2. Connect hoses from the hydraulic power supply to the tool quick disconnects. It is a good practice to connect the return hose first and disconnect it last to minimize or avoid trapped pressure within the drill.
3. Observe the arrow on hose couplers to ensure that the flow is in the proper direction. The male coupler on the circuit hose end is the supply (pressure) coupler.
4. Make sure the circuit PRESSURE hose (with male quick disconnect) is connected to the port at the back of the drill handle. The circuit RETURN hose (with female quick disconnect) is connected to the port closest to the trigger.
5. Move the hydraulic circuit control valve to the **ON** position to direct hydraulic flow to the drill.

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

Drill Operation

1. Observe all safety precautions.
2. Place the selected drill bit fully into the chuck. Center the bit and tighten the chuck using the key provided. Remove the key and store away from the drill.
3. Momentarily press the trigger to ensure that the drill bit rotates clockwise and runs true.
4. Select a work position that gives secure footing and balance while operating the drill.
5. Press the drill against the work and squeeze the trigger.

The drilling method used is determined by the material being drilled and the size and depth requirements of the hole.

Ductile material such as metal or wood is drilled efficiently when a steady down force is applied to the drill center to cause the bit to slice chips of material from the hole bottom. When drilling in metal, use a cutting lubricant to prolong bit life and reduce the amount of force required to drill effectively.

Large drill holes are more productively created from small drill holes. Drill bits are incrementally selected to enlarge the hole until the desired hole size is obtained. Each bit selected must always be too large to thread and jam into an existing hole; otherwise the bit may break and endanger the operator.

Operating Instructions

Cold Weather Operation

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

If the tool is to be used during cold weather, preheat the hydraulic fluid at low engine speed. Follow steps 1 through 5 (connect hoses) page # 9 of the operating instructions. With the hoses connected to the power supply and to the tool, turn the circuit on (**DO NOT OPERATE THE TOOL**) and allow the hydraulic oil to preheat with the engine at low speed. Preheat the hydraulic fluid until the temperature is at or above 50° F/10° C (400 ssu/82 centistokes) when using the normally recommended fluids.

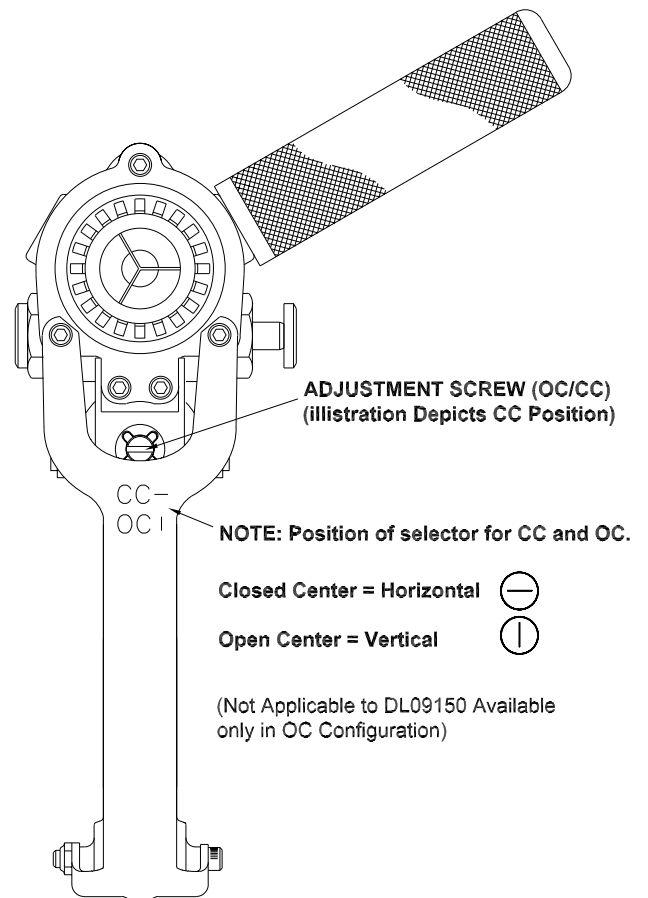
Open Center/ Closed Center Setup (OC/CC)

The adjustment for open center/ closed center is obtained by a flat screw slot located at front of tool.

To adjust from OC to CC or vice ver-sa hold on to the trigger keeping it from being depressed. While using a flat screw driver push in and rotate the selector to the desired Open Center or Closed Center position (see illustration on this page).

Note: Make sure that the four notches on the selector lock into the four cutouts in the trigger.

For Closed Center operation turn the selector so that the slot is in the horizontal position (as shown in the illustration below). For Open Center operation rotate the selector until the slot is in the vertical position.



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.

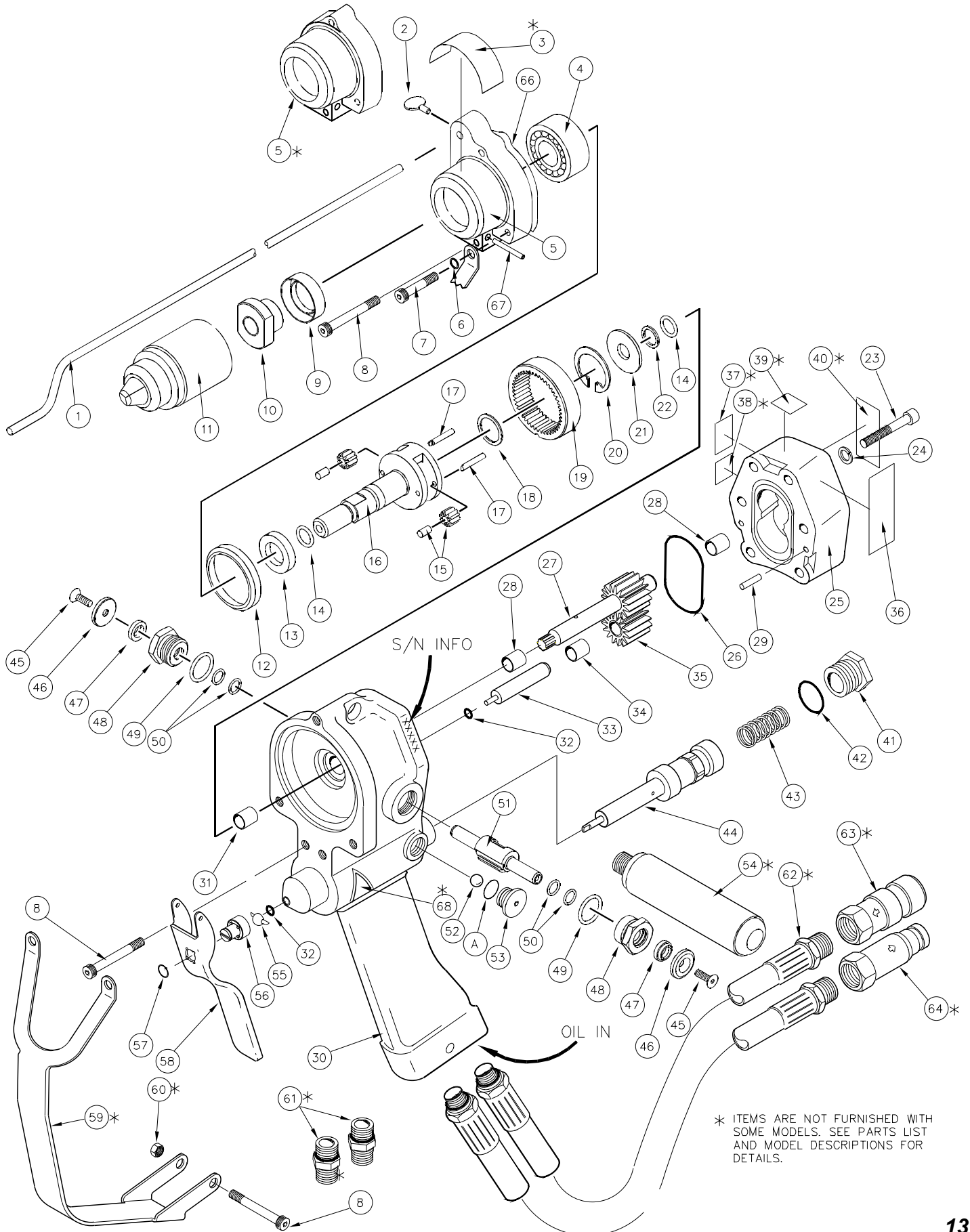
Symptom	Possible Cause	Solution
Tool will not start.	Power not being supplied.	Check to make certain that both hoses are connected. Turn hydraulic circuit control valve ON.
	Defective quick disconnects.	Check each quick disconnect separately. Replace as necessary.
Low drilling torque.	Relief valve setting too low.	Set relief valve at 2100 psi/ 145 bar.
	Fluid restriction in hose or valve. Excess flow and pressure loss.	Locate and remove restriction.
		Use correct fluid.
		Fluid not warmed-up. Preheat system.
		Hoses too long for hose I.D. Use shorter hose.
Hoses I.D. too small for hose length. Use larger I.D. hose.		
Low tool speed.	Fluid flow rate is too low.	Check circuit flow rate.
Tool speed too high.	Fluid flow rate is excessive.	Check circuit flow rate; add a proper flow control valve.
Oil leaks around gear housing.	Hydraulic pressure and return hoses reversed.	Correct hose connections. Pressure should be to the handle port away from the trigger, return is near the trigger, or see your Authorized Dealer for servicing.
	Main shaft seal o-ring leaking.	See your Authorized Dealer for servicing.

continued

Troubleshooting

Symptom	Possible Cause	Solution
Oil gets hot, power unit working hard.	Open center tool on a closed center circuit and vice versa.	Use tools to match circuit.
	Circuit relief set too low.	Adjust relief valve to 2100 psi/ 145 bar.
	Too much oil going through tool.	Adjust flow for 12 gpm/ 45 lpm maximum, or less.
Oil leaks at reversing spool.	Damaged o-rings.	Replace as required.
	Wrong hydraulic fluid. Circuit too hot.	See OPERATING INSTRUCTIONS for correct fluid/ circuit specifications.
Oil leak at motor cap face.	Fasteners loose.	Tighten to specification (see service manual).
	Face o-ring worn or missing.	See your Authorized Dealer.
	Motor cap/ main housing damaged.	See your Authorized Dealer.

DL09 Parts Illustration



* ITEMS ARE NOT FURNISHED WITH SOME MODELS. SEE PARTS LIST AND MODEL DESCRIPTIONS FOR DETAILS.

DL09 Parts List

NOTE:

Use **Part Number** and **Description** when ordering.

Item	Part	Description	Qty.
1	38676	Depth Guage Rod (ModelsDL09172S,DL09172SN, & DL09152S Only)Shipped uninstalled.	1
2	38685	Thumb Screw (ModelsDL09172S,DL09172SN, & DL09152S Only)Shipped uninstalled.	1
3	15211	Danger Sticker (Not used on Models DL0955001 & DL0965201)	1
4	08175	Ball Bearing	1
5	26655	Gear Housing	1
	24412	Gear Housing (Model DL09150 ONLY)	1
6	09623	Lockwasher # 10	3
7	09622	Capscrew 10-24x1-1/4 HSH Stainless	3
	00753	Capscrew 10-24x1-1/4 HSH (Model DL09150 ONLY)	3
8	09687	Capscrew 10-24x2 HSH Stainless	3
	00111	Capscrew 10-24x1-1/2 Hex Socket head (Model DL09150 ONLY)	2
9	09621	Shaft Seal	1
10	09778	Seal Nut	1
11	09624	Chuck 3 Jaw Adjustable, 5/8-16 THD (All Models Except DL09172S & DL09172SN)	1
	27628	Chuck 3 Jaw Adjustable, 5/8-16 THD (Used on Models DL09172S & DL09172SN only)	1
12	08163	Bearing Keeper	1
13	08162	Shaft Keeper	1
14	00354	O-ring 1/2 x 11/16 x 3/32 - 112	2
15	08165	Planet Gear Assembly	2
16	09779	Output Shaft	1
17	08161	Planet Shaft	2
18	08440	Retaining Ring	1
19	08166	Ring Gear	1
20	06635	Retaining Ring	1
21	20767	Seal Back-up Washer	1
22	13995	Back-up Ring - 112	1
23	18206	Capscrew 5/16-18x1-3/4 HSH STNLS	6
	00146	Capscrew 5/16-18x1-3/4 HEX SOC HEAD (Model DL09150 ONLY)	6
	26297	Capscrew 5/16-18x1-3/4 ZNC PLT (Model DL09152SN ONLY)	6
24	00231	Lockwasher 5/16 High Collar	6
	00145	Lockwasher 5/16 High Collar (Model DL09150 ONLY)	6
25	20770	Motor Cap Assy (Includes Items 28 & 29)	1
26	01262	O-ring 1-3/4 x 1-7/8 x 1/16 - 031	1
27	24271	Main Shaft	1
28	05207	Bushing	2
29	00713	Dowel Pin	2
30	27559	Main Housing Assy (Includes Items 28,31,32)	1
	20790	Main Housing Assy (Models DL09550D, DL09150, & DL0955001 ONLY) (Includes Items 28, 31,32)	1
31	20758	Bushing	1
32	00026	O-ring	2
33	20782	Idler Shaft	1
34	20760	Bushing	1
35	20769	Idler Gear Assy (Includes Item 34)	1
36	28769	DL09 Model Number Sticker	1
37	28323	CE Sticker (Models DL0955001 & DL0965201 ONLY)	1
38	28788	Manual Sticker (Models DL0965201 & DL0955001 ONLY)	1
39	28316	CN Sticker (Model DL09152SN ONLY)	1
40	29149	Rotation Direction Sticker (Models DL0955001 & DL0965201 ONLY)	1
41	20781	Spring Cap	1
42	01605	O-ring 1/2 x 5/8 x 1/16 - 014	1
43	06617	Spring	1
44	29313	Valve Spool Assy-OC/CC	1
	24161	Valve Spool-OC (Model DL09150 ONLY)	1
45	23175	Capscrew 12-24x3/8 Hex Soc Flat Head	2
	23174	Capscrew 12-24x3/8 Hex Soc Flat Head (Models DL09150, DL09550D, & DL0955001 ONLY)	2
46	20783	Stop Washer	2
47	02178	Wiper Seal	2

DL09 Parts List (Continued)

NOTE:

Use **Part Number** and **Description** when ordering.

Item	Part	Description	Qty.
48	20786	Seal Cap	2
49	01604	O-ring .755x.949x.097 -012 R16	2
50	00106	O-ring 3/8x1/2x1/16 -012 R16	4
51	34893	Reversing Spool	1
52	12100	Steel Ball 3/8 Dia. (Not Used on Model DL09150)	2
53	03709	SAE Plug -5 Hex Soc Head	2
54	08130	Cross Handle (Not Used On Models DL09150, DL09550D, & DL0955001)	1
55	18919	Pin To Socket Adaptor (Not Used On Model DL09150)	1
56	14019	Spool End Socket (Not Used On Model DL09150)	1
57	14028	Retaining Ring	1
58	14024	Trigger	1
	24411	Trigger (Model DL09150 ONLY)	1
59	14022	Trigger Guard (Not Used On Model DL09150)	1
60	07724	Locknut 10-24 STNLS	1
	06971	Locknut 10-24 (Used On Model DL09152SN ONLY)	1
61	00936	Adaptor Fitting (Used On Models DL09150, DL0955001, & DL09550D ONLY)	2
62	28234	Hose Whip (Not Used On Models DL09150, DL0955001, & DL09550D)	2
63	24058	Female Coupler Body 3/8"(Not Used On Models DL09150, DL09550D, DL09652 & DL0955001)	1
	03972	Female Coupler Body (Used On Model DL0955001 ONLY)	1
64	24059	Male Coupler Body 3/8"(Not Used On Models DL09150, DL09550D, DL09652, & DL0955001)	1
	03973	Male Coupler Body (Used On Model DL0955001 ONLY)	1
65	06345	Plastic Plug (Not Illustrated)	2
66	12621	Seal Gasket	1
67	07970	Spirol Pin 3/16x1-3/8	1
68	11207	Circuit Type "D" Decal	1
----	26299	Lockout Kit (shipped unassembled) Not Used On Model DL09150	1
----	11191	Chuck Key used on 3/8 chuck (All Models except DL09172S & DL09172SN)	1
----	29456	Chuck Key used on 1/2 chuck (Used on models DL09172S & DL09172SN ONLY)	1

A Supplied with Item # 53

Seal Kit P/N 25078		
00026	O-ring 3/16 x 5/16 x 1/16 - 008	2
00106	O-ring 3/8 x 1/2 x 1/16 - 012	4
00354	O-ring 1/2 x 11/16 x 3/32 - 112	2
00717	O-ring 2-112 R16	1
01262	O-ring 1-3/4 x 1-7/8 x 1/16 - 031	1
01604	O-ring .755 x .949 x .097 -910	2
01605	O-ring 1/2x5/8x1/16-014	1
02003	O-ring 2-113 R16	1
02178	Wiper Seal 3/8 x 5/8 x 1/8	2
03364	O-ring 3-905 R17	2
08928	Back-up Ring	1
09621	Shaft Seal	1
13995	Back-up Ring - 112	1
12621	Seal Gasket	1
25079	INST. For seal kit	1

Note: No Male or Female Couplers are Provided with Models DL09150, DL09652, & DL09550D.

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 manner 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

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