



# ID07 HYDRAULIC IMPACT DRILL

**⚠ WARNING**

SERIOUS INJURY OR DEATH  
COULD RESULT FROM IM-  
PROPER REPAIR OR SERVICE  
OF THIS TOOL.

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

**⚠ WARNING**

To avoid serious injury or death

 Read the Manual	 Wear Eye Protection
 Wear Ear Protection	 Wear Dust Mask



## SAFETY, OPERATION AND MAINTENANCE SERVICE MANUAL



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**SERVICING THE STANLEY HYDRAULIC IMPACT WRENCH:** 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.

**⚠ 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.**

**CERTIFICATE OF CONFORMITY  
ÜBEREINSTIMMUNGS-ZERTIFIKAT  
CERTIFICAT DE CONFORMITE CEE  
CERTIFICADO DE CONFORMIDAD  
CERTIFICATO DI CONFORMITA**



**Hydraulic Tools**

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

**Burrows, James**

Surname and First names/Familiennamen und Vornamen/Nom et prénom/Nombre y apellido/Cognome e nome

**hereby certify that the construction plant or equipment specified hereunder:  
bestätige hiermit, daß das im folgenden genannten Werk oder Gerät:  
certifies par ceci que l' usine ou l' équipement de construction indiqué cidessous:  
por el presente certifico que la fabrica o el equipo especificado a continuacion:  
certifico che l'impianto o l'attrezzatura sotto specificata:**

1. Category: Impact Drill  
Kategorie:  
Catégorie:  
Categoria:  
Categoria:

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

3. Type/Typ/Type/Tipo/Tipo: ID0781001, ID0782001

4. Serial number of equipment:  
Seriennummer des Geräts:  
Numéro de série de l'équipement:  
Numero de serie del equipo:  
Matricola dell'attrezzatura:

**All**

5. Year of manufacture/Baujahr/année de fabrication/Año de fabricacion/Anno di fabbricazione **2004**

**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 ci-après.**

**Ha sido fabricado de acuerdo con - tipo examen EEC como dice.**

**E' stata costruita in conformità con - le norme CEE come illustrato.**

Examen CEE de type				
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 Ablaufdatum Date d'expiration Fecha de caducidad Data di scadenza
EN EN ISO EN Machinery Directive	792-6 3744 28662-7 98/37/EC	1994 1995 1997 1998	Self Self Self Self	NA NA NA NA

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

Done at/Ort/Fait à/Dado en/Fatto a Stanley Hydraulic Tools, Milwaukie, Oregon USA Date/Datum/le/Fecha/Data \_\_\_\_\_

Signature/Unterschrift/Signature/Firma/Firma

Position/Position/Fonction/Puesto/Posizione Engineering Manager

Rev 1 4/22/05

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# SAFETY SYMBOLS

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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, will result in death or serious injury.



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



This safety alert and signal word indicate a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



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



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



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

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.

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# SAFETY PRECAUTIONS

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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 on page 5.

The model ID07 Hydraulic Impact Wrench 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 hose before operation. Failure to do so could result in personal injury or equipment damage.

- The operator must start in a work area without bystanders. Flying debris can cause serious injury.
- Do not operate the tool unless thoroughly trained or under the supervision of an instructor. Establish a training program for all operators to ensure safe operation.
- Always wear safety equipment such as goggles, ear and head protection, and safety shoes at all times when operating the tool. Use gloves and aprons when necessary.
- The operator must be familiar with all prohibited work areas such as excessive slopes and dangerous terrain conditions.
- Maintain proper footing and balance at all times.
- Do not inspect or clean the tool while the hydraulic power source is connected. Accidental engagement of the tool can cause serious injury.
- Always connect hoses to the tool hose couplers before energizing the hydraulic power source. Be sure all hose connections are tight and are in good condition.
- Do not operate the tool at oil temperatures above 140°F/60°C. Operation at higher temperatures can cause higher than normal temperatures at the tool which can result in operator discomfort.
- Do not operate a damaged, improperly adjusted, or incompletely assembled impact drill.
- Never wear loose clothing that can get entangled in the working parts of the tool.
- Keep all parts of your body away from the rotating parts. Long hair or loose clothing can become drawn into rotating components.
- Always use accessories that conform to the specifications given in the OPERATION section of this manual.
- Do not reverse impact wrench rotation direction by changing fluid flow direction.
- Release the trigger if the power supply has been interrupted.
- 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.
- 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 carry the tool by hoses.

# TOOL STICKERS & TAGS

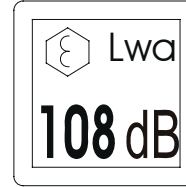
Please refer to the parts illustration for location of stickers.



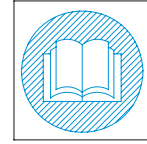
28322  
CE STICKER (CE)



58862  
PRESSURE WARNING STICKER



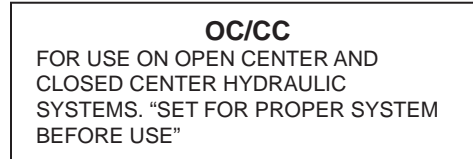
29530  
SOUND POWER  
LEVEL STICKER (CE)



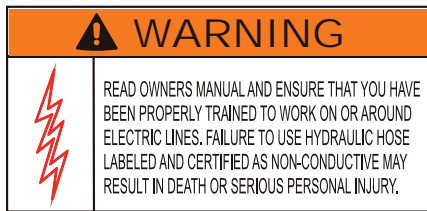
28788  
MANUAL STICKER (CE)



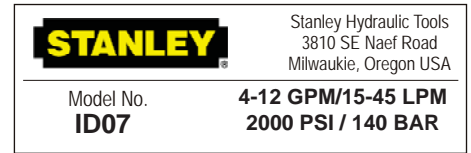
11207  
CIRCUIT TYPE D STICKER (CE)



11354  
OC/CC STICKER



58864  
ELECTRICAL WARNING STICKER



60806  
ID07 MODEL STICKER

**NOTE**

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

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

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

**DANGER**

- FAILURE TO USE HYDRAULIC HOSE LABELED AND CERTIFIED AS NON-CONDUCTIVE WHEN USING HYDRAULIC TOOLS ON OR NEAR ELECTRICAL LINES MAY RESULT IN DEATH OR SERIOUS INJURY.  
BEFORE USING HOSE LABELED AND CERTIFIED AS NON-CONDUCTIVE ON OR NEAR ELECTRIC LINES BE SURE THE HOSE IS MAINTAINED AS NON-CONDUCTIVE. THE HOSE SHOULD BE REGULARLY TESTED FOR ELECTRIC CURRENT LEAKAGE IN ACCORDANCE WITH YOUR SAFETY DEPARTMENT INSTRUCTIONS.
- A HYDRAULIC LEAK OR BURST MAY CAUSE OIL INJECTION INTO THE BODY OR CAUSE OTHER SEVERE PERSONAL INJURY.
  - 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 AND CONNECTORS DAILY FOR LEAKS. DO NOT FEEL FOR LEAKS WITH YOUR HANDS. CONTACT WITH A LEAK MAY RESULT IN SEVERE

**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**

- DO NOT LIFT OR CARRY TOOL BY THE HOSES. DO NOT ABUSE HOSE. DO NOT USE KINKED, TORN OR DAMAGED HOSE.
- MAKE SURE HYDRAULIC HOSES ARE PROPERLY CONNECTED 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. REVERSING CONNECTIONS MAY CAUSE REVERSE TOOL OPERATION WHICH CAN RESULT IN SEVERE 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 than actual size)

# TOOL HOSE INFORMATION

## 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.*

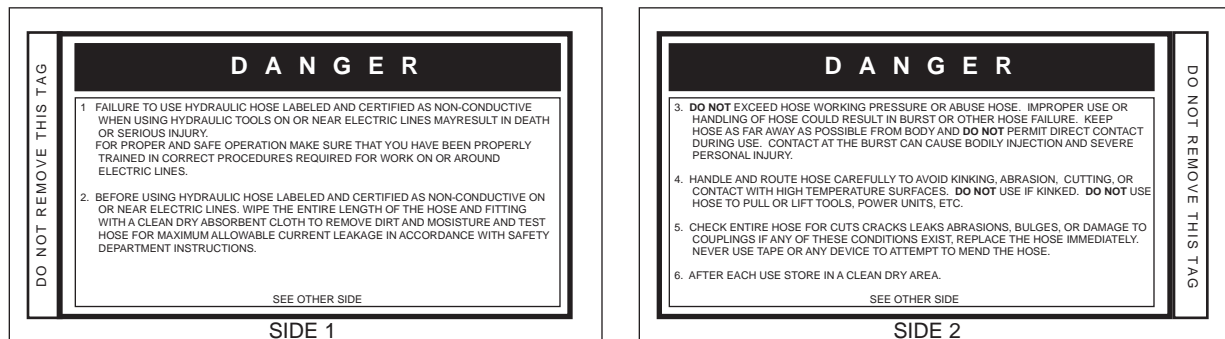
**Fabric-braided** (not certified or labeled non-conductive) - constructed of thermoplastic or synthetic rubber inner tube, synthetic fiber braid reinforcement, and weather resistant thermoplastic or synthetic rubber cover. *This hose is **not certified non-conductive** and must never be used near electrical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

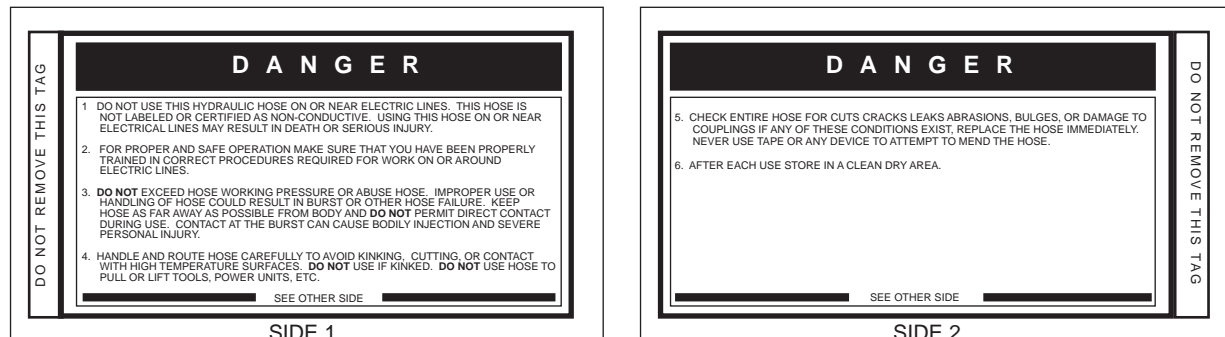
If the information on a tag is illegible because of wear or damage, replace the tag immediately. A new tag may be obtained from your Stanley Distributor.

### 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)



## Tool to Hydraulic Circuit Hose Recommendations

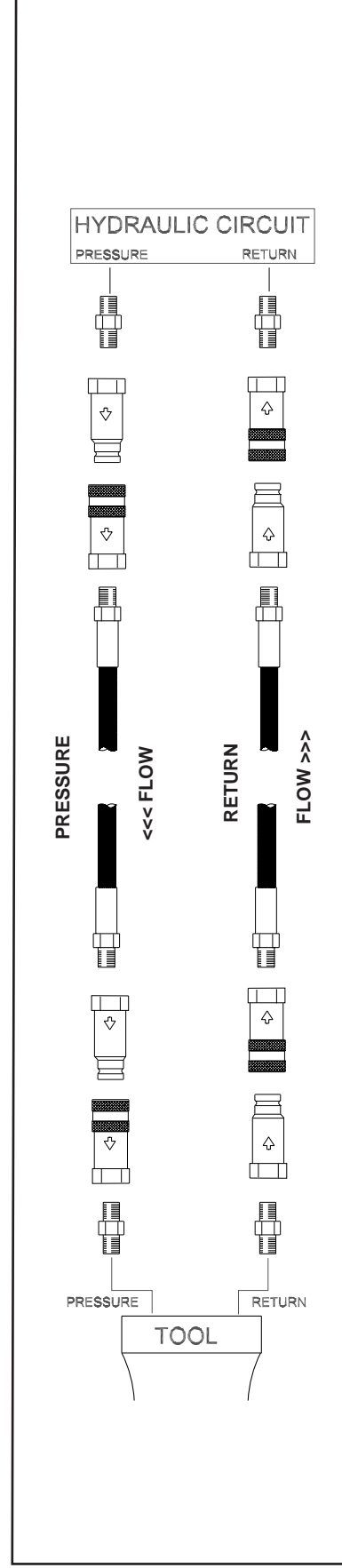
The chart to the right shows recommended minimum hose diameters for various hose lengths based on gallons per minute (gpm)/liters per minute (lpm). These recommendations are intended to keep return line pressure (back pressure) to a minimum acceptable level to ensure maximum tool performance.

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 rated minimum working pressure equal to the maximum hydraulic system relief valve setting.

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

Oil Flow		Hose Lengths		Inside Diameter		USE (Press/Return)	Min. Working Pressure	
GPM	LPM	FEET	METERS	INCH	MM		PSI	BAR
<b>Certified Non-Conductive Hose - Fiber Braid - for Utility Bucket Trucks</b>								
4-9	15-34	up to 10	up to 3	3/8	10	Both	2250	155
<b>Conductive Hose - Wire Braid or Fiber Braid - DO NOT USE NEAR ELECTRICAL CONDUCTORS</b>								
4-6	15-23	up to 25	up to 7.5	3/8	10	Both	2500	175
4-6	15-23	26-100	7.5-30	1/2	13	Both	2500	175
5-10.5	19-40	up to 50	up to 15	1/2	13	Both	2500	175
5-10.5	19-40	51-100	15-30	5/8	16	Both	2500	175
5-10.5	19-40	100-300	30-90	5/8	16	Pressure	2500	175
10-13	38-49	up to 50	up to 15	3/4	19	Return	2500	175
10-13	38-49	51-100	15-30	5/8	16	Both	2500	175
10-13	38-49	100-200	30-60	3/4	19	Pressure	2500	175
13-16	49-60	up to 25	up to 8	5/8	16	Pressure	2500	175
13-16	49-60	26-100	8-30	3/4	19	Return	2500	175
13-16	49-60	100-200	30-60	1	25.4	Return	2500	175
13-16	49-60	26-100	8-30	3/4	19	Pressure	2500	175
13-16	49-60	100-200	30-60	1	25.4	Return	2500	175



Typical Hose Connections

# HTMA REQUIREMENTS

## TOOL CATEGORY



## HYDRAULIC SYSTEM REQUIREMENTS

TYPE I

TYPE II

TYPE III

TYPE RR

FLOW RATE	4-6 gpm (15-23 lpm)	7-9 gpm (26-34 lpm)	11-13 gpm (42-49 lpm)	9-10.5 gpm (34-40 lpm)
TOOL OPERATING PRESSURE (at the power supply outlet)	2000 psi (138 bar)	2000 psi (138 bar)	2000 psi (138 bar)	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)	2200-2300 psi (152-159 bar)
MAXIMUM BACK PRESSURE (at tool end of the return hose)	250 psi (17 bar)	250 psi (17 bar)	250 psi (17 bar)	250 psi (17 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)	7 hp (4.47 kW) 40° F (22° C)	6 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 30 gpm (114 lpm)	25 microns 30 gpm (114 lpm)	25 microns 30 gpm (114 lpm)	25 microns 30 gpm (114 lpm)
HYDRAULIC FLUID Petroleum based (premium grade, anti-wear, non-conductive) VISCOSITY (at min. and max. operating temps)	100-400 ssu*	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

### NOTE:

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

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# OPERATION

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## WRENCH TORQUE INFORMATION

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### FACTORS THAT AFFECT TORQUE

An impact wrench is a rotary hammer that impacts the head of a bolt or nut. It does not apply a slow steady torque as a standard torque wrench. Therefore, several factors affect the result of torque when using impact wrenches:

1. **LONG BOLTS.** Long bolts having high-friction threads with lubrication under the bolt head or associated nut can twist when impacted, then untwist before the next impact. This will especially happen if there is low friction between the bolt head or nut and the mating surface.
2. **HEAVY, LOOSE OR MULTIPLE ADAPTERS.** Heavy, loose or multiple adapters between the wrench and socket can dissipate the intensity of the impact to the bolt head or nut.
3. **AMOUNT OF IMPACT.** Maximum torque results can be obtained by allowing continuous impacting of the socket against the bolt head or nut for at least 10 seconds.
4. **HYDRAULIC FLOW RATE.** If the flow rate to the tool is too low, the hammer (or impact) speed is reduced. If the flow is correct, a change in the relief pressure does not affect the impact force. Poorly designed hydraulic circuits can result in lower flow rates and reduced impact speeds when pressure is required during impacting.

### BOLT GRADE AND THREAD RECOMMENDATIONS

Allowable bolt torque is limited by both bolt thread diameter and grade of steel in the bolt. The ID07 Impact Wrench is recommended for use on the following bolt grade and thread sizes:

SAE Grade 2	7/16 to 7/8 inch / 11 to 22 mm
SAE Grade 5	3/8 to 5/8 inch / 9 to 16 mm
SAE Grade 8	3/8 to 9/16 inch / 9 to 4 mm

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## PREOPERATION PROCEDURES

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### CHECK POWER SOURCE

1. Using a calibrated flow meter and pressure gauge, check that the hydraulic power source develops a flow of 4-12 gpm/15-45 lpm at 2000 psi/140 bar.

2. Make certain that the hydraulic power source is equipped with a relief valve set to open at 2100 psi/145 bar minimum.

### OPEN-CENTER (OC) OR CLOSED-CENTER (CC) OPERATION

The ID07 can be configured to run on OC or CC circuits.

1. Determine the system type.
2. Remove the hex plug (44) from the spring cap.

#### FOR OPEN-CENTER OPERATION:

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.

#### FOR CLOSED-CENTER OPERATION:

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 now selected.

 **CAUTION**

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

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

### CONNECT HOSES

1. Wipe all hose couplers with a clean, lint-free cloth before making connections.
2. Connect hoses from the hydraulic power source to the tool fittings or quick disconnects. It is good practice to connect the return hose first and disconnect it last to minimize or eliminate trapped pressure within the wrench.
3. Observe the flow indicators stamped on the main body assembly and the hose couplers to ensure that the flow is in the proper directions. The female couple on the tools "IN" port is the inlet (pressure) coupler.

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# OPERATION

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**Note:**

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

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## WRENCH OPERATION

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The ID07 is designed for 1/2-inch square or 7/16-inch hex drive.

During normal operation it is common to see some grease leakage from around the anvil during hard use. Refer to the Service Manual for the correct lubrication procedures.

1. Observe all Safety Precautions.
2. Move the hydraulic circuit control valve to the "ON" position to operate the wrench.

**▲ WARNING**

Always use sockets and accessories designed for impact type applications. DO NOT USE STANDARD SOCKETS OR ACCESSORIES. THESE CAN CRACK OR FRACTURE DURING OPERATION.

3. Select the direction (clockwise or counterclockwise) of impact desired by pushing the reversing spool either left or right. See item 75 in the parts illustration.

**Note:**

To more accurately tighten bolts, lubricate threads, check with a torque wrench and duplicate time of impacting for other bolts of the same length and thread size.

4. Squeeze the trigger to activate the wrench.
5. Release the trigger to stop the wrench.

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## COLD WEATHER OPERATION

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If the wrench 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.

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

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# EQUIPMENT PROTECTION & CARE

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## NOTICE

In addition to the Safety Precautions 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) 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 wrench, always check that the hydraulic power source is supplying the correct hydraulic flow and pressure to the tool as listed in the following table. Use a flow meter known to be accurate. Check the flow with the hydraulic fluid temperature at least 80° F/27° C.

PROBLEM	CAUSE	SOLUTION
Low performance or impact.	Incorrect hydraulic flow.	Check that the hydraulic power source is producing 4-12 gpm/15-45 lpm at 2000 psi/140 bar.
	Defective quick disconnects.	Check each quick disconnect.
	Hydraulic motor failure.	Inspect and repair.
	Hammer pins broken.	Replace hammer pins.
	Incorrect grease or periodic maintenance of the impact mechanism is not being performed.	See Service Instructions.
	Sockets or adapters too heavy or loose.	Use the correct impact type sockets or adapters.
	Long bolt with lubricated head.	Lubricate threads only.
	Not enough grease in mechanism.	Regrease mechanism.
	Supply and return hoses reversed.	Install hoses correctly.
Wrench runs too fast. Impact mechanism or screws broken.	Incorrect hydraulic flow (too high).	Check that hydraulic power source is producing 4-12 gpm/15-45 lpm at 2000 psi/140 bar.
Oil leak at motor cap face.	Fasteners loose.	Tighten to recommended torque.
	Face O-ring worn or missing.	Replace as required.
	Motor cap/main housing damaged.	Replace as required.
Performance low and seems to get worse rapidly.	Bearing failure.	Replace as required.
	Trigger spool worn.	Replace as required.
	Impact mechanism worn.	Repair or replace.
Fluid gets hot, power unit working hard.	Circuit relief set too low.	Adjust relief valve to 2200 psi/155 bar minimum.
	Too much fluid going through tool.	Adjust flow for 4-12 gpm/15-45 lpm maximum.
	Circuit has contaminants that have caused wear and high heat generation.	Replace worn pump and valves. Install a large clean filter and keep circuit fluid clean.

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# SPECIFICATIONS

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Drive Size .....	1/2 inch Square Drive or 7/16 inch Hex
Weight .....	7.7 lbs / 3.5 kg
Overall Length .....	9 inch / 22.9 cm
Width .....	4.5 inch / 11.4 cm
Height .....	10.5 inch / 26.7 cm
Motor .....	Integral
Pressure Range.....	2000 psi / 140 bar
Flow Range .....	4-10 gpm / 15-38 lpm
Optimum Flow .....	4-9 gpm / 15-34 lpm
System Type.....	Open and Closed Center, HTMA Type II
Porting .....	-8 SAE O-Ring
Output Torque.....	500 ft lbs / 675 Nm
Connect Size and Type .....	3/8 inch NPT Pipe Fitting
Sound Power Level .....	108 dBA
Vibration Level.....	6.4 m/s <sup>2</sup>

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# ACCESSORIES

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DESCRIPTION	PART NUMBER
7/16 inch Quick Change Chuck to 1/2 inch Square Female.....	05079
Adapter, 7/16 inch Hex Shank to 1/2 inch Square Male.....	05117
5/8 inch Quick Change Adapter to 1/2 inch Square Female.....	07192
Adapter, 5/8 inch Male Hex x 1/2 inch Male Square Drive.....	05080

## WOOD AUGER BITS, 5/8 INCH HEX

9/16 inch dia x 21 inch Carbide Tipped Auger Bit (24 inch OAL).....	27845
13/16 inch dia x 21 inch Carbide Tipped Auger Bit (24 inch OAL).....	27847

## WOOD AUGER BITS, 7/16 INCH HEX

9/16 inch dia x 8 inch Carbide Tipped Auger Bit (12 inch OAL).....	27850
11/16 inch dia x 8 inch Carbide Tipped Auger Bit (12 inch OAL).....	27851
13/16 inch dia x 8 inch Carbide Tipped Auger Bit (12 inch OAL).....	27852
15/16 inch dia x 8 inch Carbide Tipped Auger Bit (12 inch OAL).....	27853
1-1/16 inch dia x 8 inch Carbide Tipped Auger Bit (12 inch OAL).....	27854
9/16 inch dia x 15 inch Carbide Tipped Auger Bit (18 inch OAL).....	27855
11/16 inch dia x 15 inch Carbide Tipped Auger Bit (18 inch OAL).....	27856
13/16 inch dia x 15 inch Carbide Tipped Auger Bit (18 inch OAL).....	27857
15/16 inch dia x 15 inch Carbide Tipped Auger Bit (18 inch OAL).....	27858
1-1/16 inch dia x 15 inch Carbide Tipped Auger Bit (18 inch OAL).....	27859
9/16 inch dia x 21 inch Carbide Tipped Auger Bit (24 inch OAL).....	27860
11/16 inch dia x 21 inch Carbide Tipped Auger Bit (24 inch OAL).....	27861
13/16 inch dia x 21 inch Carbide Tipped Auger Bit (24 inch OAL).....	27862
15/16 inch dia x 21 inch Carbide Tipped Auger Bit (24 inch OAL).....	27863
1-1/16 inch dia x 21 inch Carbide Tipped Auger Bit (24 inch OAL).....	27864

## SOCKETS, 1/2 INCH SQUARE DRIVE

1/2 inch Double Square 8 Point, Deep Length.....	05108
9/16 inch Double Square 8 Point Deep Length.....	05109
5/8 inch Double Square 8 Point Deep Length.....	05110
11/16 inch Double Square 8 Point Deep Length.....	05111
3/4 inch Double Square 8 Point Deep Length.....	05112
13/16 inch Double Square 8 Point Deep Length.....	05113
7/8 inch Double Square 8 Point Deep Length.....	05114
15/16 inch Double Square 8 Point Deep Length.....	05115
1 inch Double Square 8 Point Deep Length.....	05116
Lineman's Socket, 13/16 inch and 15/16 inch.....	33155
Lineman's Socket, 1 inch and 1-1/8 inch.....	33156



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# SERVICE

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## PRIOR TO DISASSEMBLY

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**Note:**

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

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.

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## PRIOR TO REASSEMBLY

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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.

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## IMPACT MECHANISM DISASSEMBLY

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1. Clamp the impact drill/wrench in a vice with soft jaws, impact mechanism facing up.
2. Unscrew and remove the fasteners (8), lockwashers (22) and lift the hammer case (61) off of the main housing (80). If the tool contains a trigger guard (85), unscrew and remove the fastener (23), nut (20) and remove the trigger guard before lifting off the hammer case.
3. If the hammer frame (53) and hammers (54) remain on the main housing, lift them off. If the hammer frame and hammers remain in the hammer case, remove them by turning the anvil until they drop out. On models containing the 1/2 inch drive anvil, the hammer frame, hammers, and anvil can be removed from the hammer case by simply pushing on the anvil (55).
4. Push the hammer pins (52) out of the hammer frame and then remove the two hammers.
5. To remove a 7/16 inch anvil from the hammer case, complete the following steps.
  - a. Using two small screw drivers, push the thrust ring (57) down and pry out the thrust ring lock (58). Lift off the thrust ring, spring (56), and retaining sleeve (59) being careful to not allow the steel balls (27) to fall out.

- b. Remove the steel balls.
- c. Push the anvil out of the hammer case.

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## IMPACT MECHANISM REASSEMBLY

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1. Thoroughly clean and inspect all parts of the impact mechanism. If the hammer case, hammers, pins, or anvil appears damaged in any way, the part(s) should be replaced.
  2. Apply grease and install a new o-ring (10) onto the pilot ring (62). For underwater models, apply grease and install a new o-ring (1) into the groove in the bushing (60).
  3. Apply impact tool lubricant to the anvil and install it into the hammer case. If the anvil is a 7/16 inch quick change, complete the following steps.
    - a. Apply grease to the holes in the anvil for the steel balls (27) and then install each ball.
    - b. Place the retaining sleeve (59) over the anvil followed by the spring (56) and thrust ring (57).
    - c. Push down on the thrust ring and then install the thrust ring lock (58).
  4. Apply impact tool grease to the hammers, hammer frame, and pins.
- NOTE:**  
**Do not fill the hammer case with grease or heavily coat the mechanism parts with grease. A coating is all that is required.**
5. Install the hammers into the hammer frame and then install each pin.

**NOTE:**  
**Make sure the hammers are oriented as shown in the parts illustration (one hammer appears to be upside down against the other). The order (front to back) does not matter as long as one is upside down against the other.**

6. Install the hammer frame and hammers assembly into the hammer case. Turning of the anvil will help seat the frame and hammers.
7. Making sure the spacer (47) and bearing (32 & 33) are in place, install the completed mechanism assembly to the main housing and secure with the capscrews (8) and lock washers (22). Tighten to 48 in. lb./5.4 Nm. If a trigger guard is used, install it at this time.

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# SERVICE

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## TOOL DISASSEMBLY

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1. Complete steps 1, 2 and 3 under IMPACT MECHANISM REMOVAL.

2. Remove the spacer (47) and thrust bearing (32 & 33) from the main housing assembly.

### MOTOR CAP

3. Remove the 6 socket head capscrews (29) and lockwashers (4) securing the motor cap assembly (36) to the main housing assembly and lift off the motor cap assembly off of the main housing assembly.

4. Remove the o-ring (11) from the motor cap.

### MAIN SHAFT & IDLER SHAFT

5. Tap on the splined end of the main shaft (37) and push the shaft from the main body.

6. Remove the idler gear (35), idler shaft (48), spring (50), and plunger (49).

7. Remove the retaining ring (16) and then pick out the seal washer (34), o-ring (5) and back-up ring (26) from the main housing.

### VALVE SPOOL

8. Unscrew the spring cap (73), pick out the spring (83) and then push the valve spool (65) out of the spring cap end of the main housing. Remove the o-ring (19) from the main housing and the o-ring (18) from the valve spool.

### TRIGGER

9. Remove the trigger (81) by first unscrewing the capscrews (8) and lockwashers (22) and removing the trigger and trigger mount (82) as an assembly. Drive out the roll pin (21).

### REVERSING SPOOL

10. Remove retaining rings (74) and remove the end caps (72).

11. Unscrew and remove the seal caps (71) and slide the reversing spool (75) out of the main housing.

### NOTE:

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

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## CLEANING AND INSPECTION

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### 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.

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## MAIN HOUSING ASSEMBLY

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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 above occurs (more than normal polishing), replace both the shaft and associated bushings.

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# SERVICE

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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.

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## TOOL REASSEMBLY

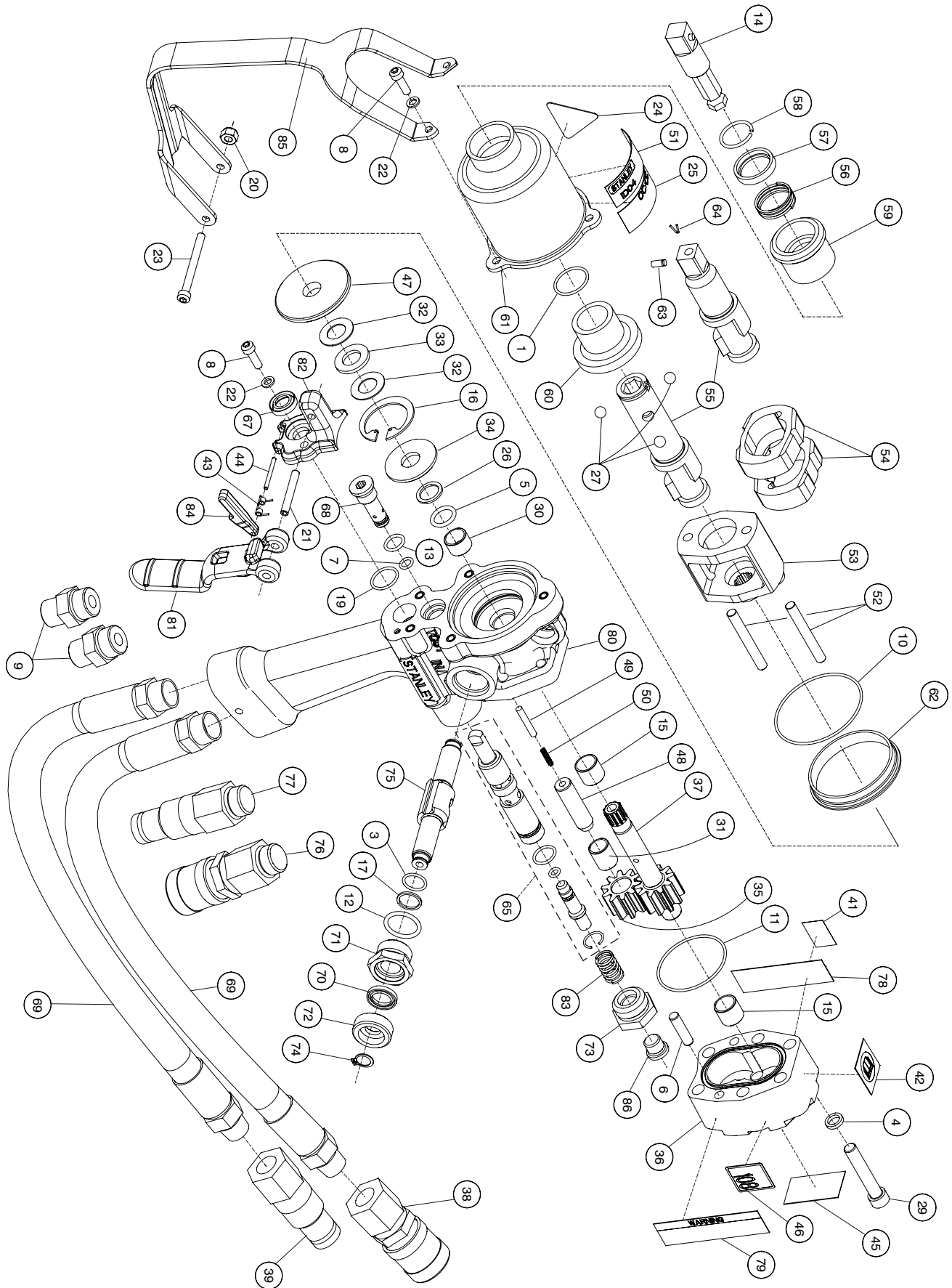
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1. Lubricate and install a new o-ring (5) and back-up ring (26) into the main housing. Install the seal back-up washer (34) and retaining ring (16).
2. Slide the reversing spool into the main housing assembly. Insert the spool with the slot toward the idler shaft hole and the narrow side of the depression in the spool facing up toward the top of the main housing.
3. Insert the idler shaft (48) with spring (50) and plunger (49) to prevent the reversing spool from turning.
4. Lubricate and install new wiper seals (70), o-rings (12), back-up rings (17), and o-rings (3) into each seal cap (71). Install each seal cap onto the main housing assembly.
5. Install each end cap (72) and secure with retaining ring (74).
6. Lubricate the seal area of the main shaft (37) and install it into the main housing. Install the idler gear (35) onto the idler shaft.
7. Lubricate and install a new o-ring (11) onto the motor cap (36). Lubricate the bolt (29) threads with an antiseize compound and install the motor cap with lockwasher (4). Tighten the bolts to 15-17 ft. lb./20-23 Nm in a cross pattern.
8. Lubricate and install a new seal wiper (67) into the trigger mount (82). Secure trigger (81) to trigger mount with roll pin (21). Install the trigger assembly to the main housing with bolts (8) and lockwashers (22).
9. Install a new o-ring (19) in main housing and new o-ring (18) on valve spool. Lubricate the valve spool bore and seals with grease before installing the valve spool (65) 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. Install spring (83) behind the valve spool. Using Loctite™ 242, install spring cap (73) to main housing.
10. Lubricate with grease and install the bearing races (32) and thrust bearing (33). Install the spacer (47) with the smaller stepped diameter facing the main housing.
11. Install the impact mechanism. Tighten bolts (8) with lockwashers (22) to 48 in. lb./5.4 Nm. If a trigger guard (43) is used, install it at this time with bolt (23) and nut (20).



Do not force parts together.

# ID07 PARTS ILLUSTRATION



# ID07 PARTS LIST

ITEM NO.	PART NO.	QTY	DESCRIPTION
1	00012	1	O-RING (ID07920 ONLY)
2	----	--	NO ITEM
3	00175	2	O-RING
4	00231	6	LOCKWASHER
5	00354	1	O-RING
6	00713	2	DOWEL PIN
7	00717	1	O-RING
8	62229	5	CAPSCREW
9	00936	2	ADAPTER (ID07810, ID07820 ONLY)
10	01205	1	O-RING
11	01262	1	O-RING
12	01604	2	O-RING
13	03364	1	O-RING
14	05117	1	ADAPTER (ID07810, ID0781001, ID07810S ONLY)
15	05207	2	BUSHING
16	06635	1	RETAINING RING
17	07224	2	BACKUP RING
18	----	--	NO ITEM
19	07627	1	O-RING
20	07724	1	NYLOCK NUT (ID0781001, ID0710S, ID072001 ONLY)
21	07970	1	ROLL PIN
22	09623	5	LOCKWASHER
23	09687	1	CAPSCREW (ID0781001, ID07810S, ID0782001 ONLY)
24	11207	1	CIRCUIT TYPE D STICKER (ID0781001, ID0782001 ONLY)
25	11354	1	OC/CC STICKER
26	13995	1	BACKUP RING
27	15966	3	RETAINER BALL (ID07810, ID0781001, ID07810S ONLY)
28	----	--	NO ITEM
29	18206	6	CAPSCREW
30	20758	1	BUSHING
31	20760	1	BUSHING
32	20761	2	BEARING RACE
33	20762	1	BEARING
34	20767	1	SEAL BACKUP WASHER
35	20769	1	IDLER GEAR ASSY (INCLUDES ITEM 31)
36	20770	1	MOTOR CAP ASSY (INCLUDES ITEMS 6, 15)
37	20788	1	MAIN SHAFT
38	03972 47436	1	FEMALE COUPLER (PARKER) FEMALE COUPLER (AEROQUIP)
39	03973 47437	1	MALE COUPLER (PARKER) MALE COUPLER (AEROQUIP)
40	25610	1	RAILROAD HELP DESK STICKER (ID07810S ONLY)
41	28323	1	CE STICKER (ID0781001, ID0782001 ONLY)
42	28788	1	MANUAL STICKER

ITEM NO.	PART NO.	QTY	DESCRIPTION
43	60710	1	TRIGGER GUARD (ID0781001, ID07810S, ID0782001 ONLY)
44	350041	1	HOLLOW HEX PLUG
45	29149	1	ROTATING DIRECTION STICKER
46	29530	1	SOUND POWER LEVEL STICKER
47	30704	1	SPACER
48	31246	1	IDLER SHAFT
49	31299	1	PLUNGER
50	31665	1	COIL SPRING
51	60806	1	MODEL NUMBER STICKER
	31894	1	IMPACT MECHANISM ASSY (7/16 QC) (ID07810, ID0781001, ID07815, ID08810S ONLY)
	32149	1	IMPACT MECHANISM ASSY (1/2 SQUARE) (ID07820, ID0782001)
	32284	1	IMPACT MECHANISM ASSY (1/2 SQUARE) (ID07920 ONLY)
52	06757	2	HAMMER PIN
53	31896	1	HAMMER FRAME
54	31897	2	HAMMER
			ANVIL, 7/16 QC (ID07810, ID0781001, ID07810S ONLY)
55	31898 32150	1	ANVIL, 1/2 SQUARE (INCLUDES ITEM 63-64 ID07820, ID0782001, ID07920 ONLY)
56	31899	1	RETAINER SPRING (ID07810, ID0781001, ID07810S ONLY)
57	31900	1	THRUST RING (ID07810, ID0781001, ID07810S ONLY)
58	31901	1	THRUST RING LOCK (ID07810, ID0781001, ID07810S ONLY)
59	31902	1	RETAINING SLEEVE (ID07810, ID0781001, ID07810S ONLY)
			HAMMER CASE BUSHING (ID07810, ID0781001, ID07810S, ID07820, ID0782001 ONLY)
60	31903	1	HAMMER CASE BUSHING U/W
	32153	1	HAMMER CASE BUSHING U/W
61	31904	1	HAMMER CASE
62	32029	1	PILOT RING
63	32151	1	RETAINER (ID07820, ID0782001, ID07920 ONLY)
64	32152	1	SPRING (ID07820, ID0782001, ID07920 ONLY)
65	48986	1	VALVE SPOOL ASSY
66	----	--	NO ITEM
67	49139	1	SEAL WIPER
68	56721	1	RELIEF CARTRIDGE ASSY (INCL ITEMS 7, 13)
69	56725 66727	2	HOSE ASSY (PARKER) ID07810S Only HOSE ASSY (AEROQUIP) ID07810S Only
70	56747	2	SEAL WIPER
71	56749	2	SEAL CAP
72	56757	2	END CAP
73	56758	1	SPRING CAP

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# ID07 PARTS LIST CONTINUED

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ITEM NO.	PART NO.	QTY	DESCRIPTION
74	56764	2	RETAINING RING EXTERNAL
75	56765	1	REVERSING SPOOL
76	58856	1	3/8 FLUSHFACE COUPLER BODY
77	58857	1	3/8 FLUSHFACE COUPLER NOSE
78	58862	1	PRESSURE WARNING STICKER
79	58864	1	ELECTRICAL WARNING STICKER
80	59049	1	MAIN HOUSING ASSY (INCL ITEMS 15, 30)
81	60677	1	TRIGGER
82	60678	1	TRIGGER MOUNT CASTING
83	65480	1	SPRING
	03693	1	STICKER, CLOSED-CENTER (Shipped loose with ID07810, ID07820 Only)
	<b>60791</b>	<b>1</b>	<b>SEAL KIT</b>

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# WARRANTY

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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 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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