STANLEY®

ID07
HYDRAULIC IMPACT DRILL

USER MANUAL
Safety, Operation and Maintenance

© 2012 Stanley Black & Decker, Inc.
New Britain, CT 06053
U.S.A.
49228 2/2015 Ver. 12

DECLARATION OF CONFORMITY

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DECLARATION DE CONFORMITE CEE
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STANLEY
Hydraulic Tools
CE

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

Weisbeck, Andy

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

hereby declare that the equipment specified hereunder:
bestätige hiermit, daß erklaren Produkt genannten Werk oder Gerät:
déclare que l'équipement visé ci-dessous:
Por la presente declaro que el equipo se especifica a continuación:
Dichiaro che le apparecchiature specificate di seguito:

1. Category:
   Kategorie:
   Catégorie:
   Categoria:
   Categoria:
   Hydraulic Hand Held Impact Drill
2. Make/Marke/Marque/Marca/Marca **Stanley**
3. Type/Typ/Type/Tipo/Tipo: **ID0781001, ID0782001, ID0792001**
4. Serial number of equipment:
   Seriennummer des Geräts:
   Numéro de série de l'équipement:
   Numero de serie del equipo:
   Matricola dell´attrezzatura:
   All

Has been manufactured in conformity with
Wurde hergestellt in Übereinstimmung mit
Est fabriqué conformément
Ha sido fabricado de acuerdo con
E' stata costruita in conformitá con

Directive/Standards Richtlinie/Standards Directives/Normes Directriz/Los Normas Direttiva/Norme	No. Nr Numéro No n.	Approved body Prüfung durch Organisme agréé Aprobado Collaudato
EN EN ISO ISO Machinery Directive	11148-6:2010 3744:2010 28927-2:2009 2006/42/EC:2006	Self Self Self Self

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

6. Representative in the Union: **Patrick Vervier**, **Stanley Dubuis 17-19, rue Jules Berthonneau-BP 3406 41034 Blois Cedex, France.**
   Vertreter in der Union/Représentant dans l'union/Representante en la Union/Rappresentante presso l'Unione

Done at/Ort/Fait à/Dado en/Fatto a Stanley Hydraulic Tools, Milwaukie, Oregon USA Date/Datum/le/Fecha/Data 1-5-11

Signature/Unterschrift/Signature/Firma/Firma Andy Weisbeck

Position/Position/Fonction/Cargo/Posizione Director of Product Development

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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.

⚠ 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.

⚠ DANGER — This safety alert and signal word indicate an imminently hazardous situation which, if not avoided, will result in death or serious injury.

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

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

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

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

IMPORTANT — 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

Tool operators and maintenance personnel must always comply with the safety precautions given in this manual and on the stickers and tags attached to the tool and hose. These safety precautions are given for your safety. Review them carefully before operating the tool and before performing general maintenance or repairs.

Supervising personnel should develop additional precautions relating to the specific work area and local safety regulations. If so, place the added precautions in the space provided in this manual.

The model ID07 Hydraulic Impact Drill 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, gloves, ear, head and breathing protection, and safety shoes at all times when operating the tool. Use gloves and aprons when necessary.
- Inspect tool daily for loose fasteners, missing parts and leakage. Have tool repaired if 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 and do not overreach.
- Do not inspect or clean the tool while the hydraulic power source is connected. Accidental engagement of the tool can cause serious injury. Be observant of hydraulic and water hose lying about the work area, they can be a tripping hazard.
- 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 wrench.
- 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.
- Serious injury or death could result from a tool or accessories dropped from an elevated height, also flying debris can cause serious injury.
- Warning: Hydraulic fluid under pressure could cause skin injection injury. If you are injured by hydraulic fluid, get medical attention immediately.
- During operation do not contact the impact mechanism, accessories or hardware as they can become very hot, use your (PPE) Personal Protection Equipment.
- **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.

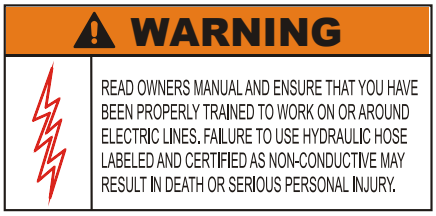
TOOL STICKERS & TAGS

28322
CE STICKER (CE)

11207
CIRCUIT TYPE D STICKER (CE)

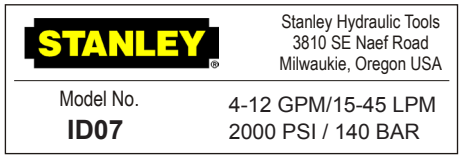
28788
MANUAL STICKER (CE)

29530
SOUND POWER
LEVEL STICKER (CE)



58864
ELECTRICAL WARNING STICKER

58862
PRESSURE WARNING STICKER



60806
ID07 MODEL STICKER

11354
OC/CC STICKER

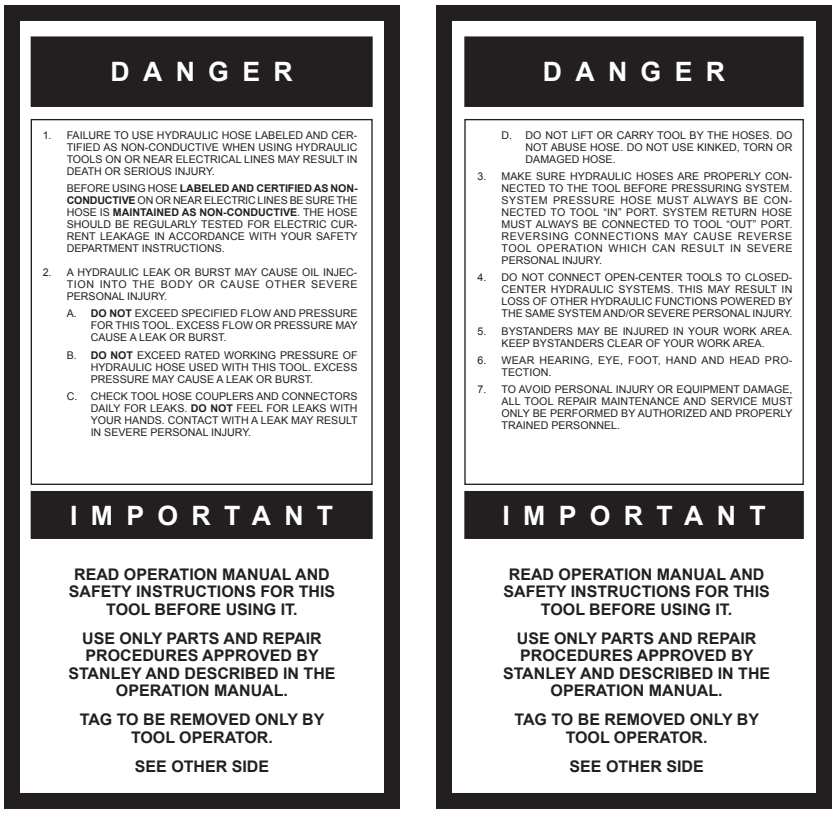
Please refer to the parts illustration for location of stickers.

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.



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.*

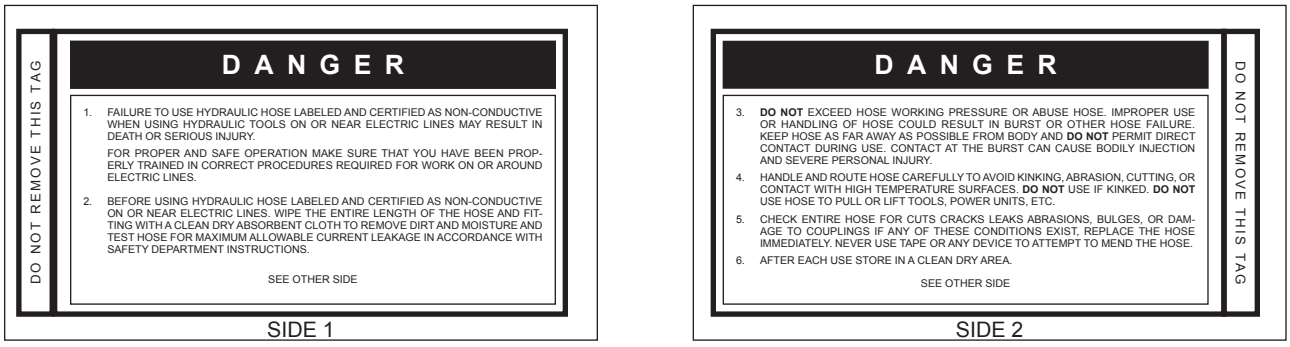
Fabric-braided (not certified or labeled non-conductive) — constructed of thermoplastic or synthetic rubber inner tube, synthetic fiber braid reinforcement, and weather resistant thermoplastic or synthetic rubber cover. *This hose is **not certified non-conductive** and must never be used near electrical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

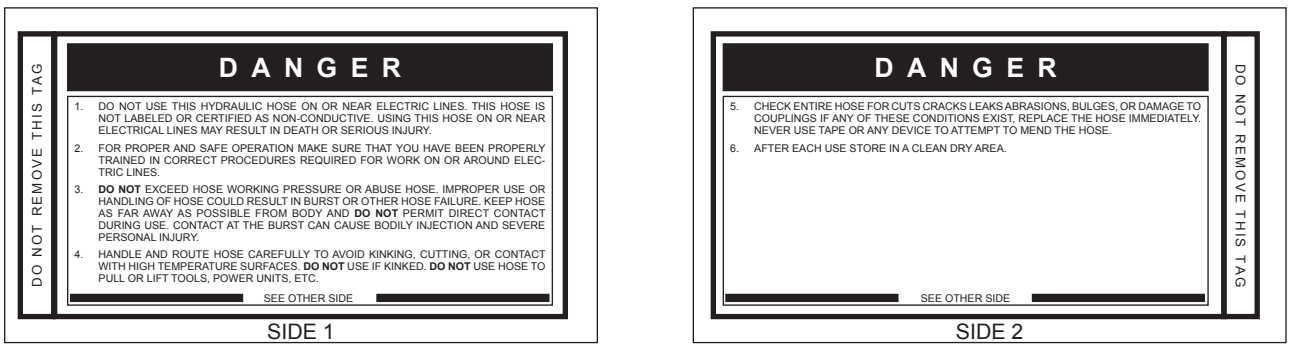
If the information on a tag is illegible because of wear or damage, replace the tag immediately. A new tag may be obtained from your Stanley Distributor.

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)

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
Certified Non-Conductive Hose - Fiber Braid - for Utility Bucket Trucks								
4-9	15-34	up to 10	up to 3	3/8	10	Both	2250	155
Conductive Hose - Wire Braid or Fiber Braid -DO NOT USE NEAR ELECTRICAL CONDUCTORS								
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
				3/4	19	Return	2500	175
10-13	38-49	up to 50	up to 15	5/8	16	Both	2500	175
10-13	38-49	51-100	15-30	5/8	16	Pressure	2500	175
				3/4	19	Return	2500	175
10-13	38-49	100-200	30-60	3/4	19	Pressure	2500	175
				1	25.4	Return	2500	175
13-16	49-60	up to 25	up to 8	5/8	16	Pressure	2500	175
				3/4	19	Return	2500	175
13-16	49-60	26-100	8-30	3/4	19	Pressure	2500	175
				1	25.4	Return	2500	175

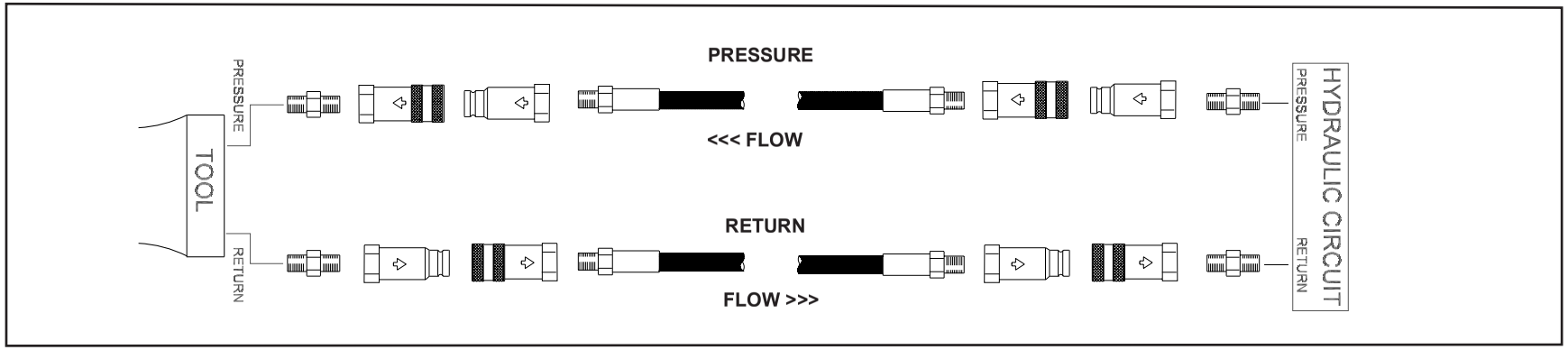


Figure 1. Typical Hose Connections

HTMA / EHTMA REQUIREMENTS

HTMA HYDRAULIC SYSTEM REQUIREMENTS	TOOL TYPE TYPE I	TYPE II	TYPE RR	TYPE III
Flow Range	4-6 gpm (15-23 lpm)	7-9 gpm (26-34 lpm)	9-10.5 gpm (34-40 lpm)	11-13 gpm (42-49 lpm)
Nominal Operating Pressure (at the power supply outlet)	1500 psi (103 bar)	1500 psi (103 bar)	1500 psi (103 bar)	1500 psi (103 bar)
System relief valve setting (at the power supply outlet)	2100-2250 psi (145-155 bar)	2100-2250 psi (145-155 bar)	2200-2300 psi (152-159 bar)	2100-2250 psi (145-155 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)	6 hp (5.22 kW) 40° F (22° C)	7 hp (4.47 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

EHTMA HYDRAULIC SYSTEM REQUIREMENTS	CLASSIFICATION B (15Lpm at 138bar EHTMA CATEGORY)	C (20Lpm at 138bar EHTMA CATEGORY)	D (30Lpm at 138bar EHTMA CATEGORY)	E (40Lpm at 138bar EHTMA CATEGORY)	F (50Lpm at 138bar EHTMA CATEGORY)
Flow Range	3.5-4.3 gpm (13.5-16.5 lpm)	4.7-5.8 gpm (18-22 lpm)	7.1-8.7 gpm (27-33 lpm)	9.5-11.6 gpm (36-44 lpm)	11.8-14.5 gpm (45-55 lpm)
Nominal Operating Pressure (at the power supply outlet)	1870 psi (129 bar)	1500 psi (103 bar)	1500 psi (103 bar)	1500 psi (103 bar)	1500 psi (103 bar)
System relief valve setting (at the power supply outlet)	2495 psi (172 bar)	2000 psi (138 bar)	2000 psi (138 bar)	2000 psi (138 bar)	2000 psi (138 bar)

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

WRENCH TORQUE INFORMATION

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

PREOPERATION PROCEDURES

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.

⚠ WARNING

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.

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.

WRENCH OPERATION

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.

COLD WEATHER OPERATION

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.

TOOL PROTECTION & CARE

NOTICE

In addition to the Safety Precautions found in this manual, observe the following for equipment protection and care.

- Make sure all couplers are wiped clean before connection.
- The hydraulic circuit control valve must be in the “OFF” position when coupling or uncoupling hydraulic tools. Failure to do so may result in damage to the quick couplers and cause overheating of the hydraulic system.
- Always store the tool in a clean dry space, safe from damage or pilferage.
- Make sure the circuit PRESSURE hose (with male quick disconnect) is connected to the “IN” port. The circuit RETURN hose (with female quick disconnect) is connected to the opposite port. Do not reverse circuit flow. This can cause damage to internal seals.
- Always replace hoses, couplings and other parts with replacement parts recommended by Stanley Hydraulic Tools. Supply hoses must have a minimum working pressure rating of 2500 psi/172 bar.
- Do not exceed the rated flow (see Specifications) 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 Manual.
	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.

SPECIFICATIONS

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 AND VIBRATION DECLARATION	
Test conducted on ID07 operated at standard 5 gpm input	
Measured A-weighted sound power level, Lwa (ref. 1pW) in decibels	104.6 dBA
Uncertainty, Kwa, in decibels	3 dBA
Measured A-weighted sound pressure level, Lpa (ref. 20 µPa) at operator's position, in decibels	96.5 dBA
Uncertainly, Kpa, in decibels	3 dBA
Values determined according to noise test code given in ISO 15744, using the basic standard ISO 3744 **NOTE:** The sum of a measured noise emission value and its associated uncertainty represents an upper boundary of the range of values which is likely to occur in measurements.	
Declared vibration emission value: A	8.5 m/sec^2
Uncertainty: K	1.3 m/sec^2
Values determined according to ISO 8662-7, ISO 5349-1, 2	

ACCESSORIES

Description	Part Number
Assist Handle	73636

Assist Handle 73636

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 × 1/2 inch Male Square Drive	05080

WOOD AUGER BITS, 5/8 INCH HEX

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

WOOD AUGER BITS, 7/16 INCH HEX

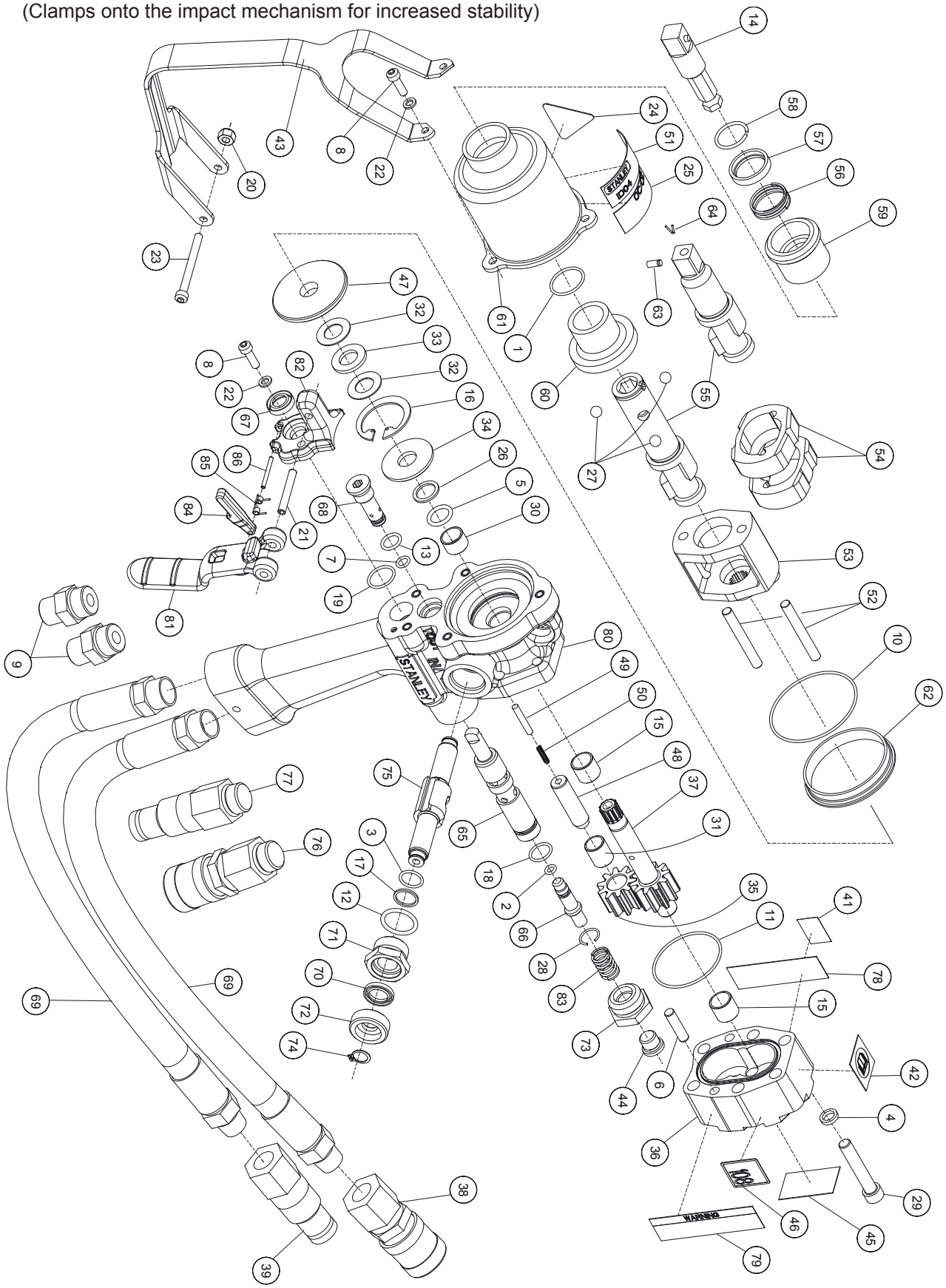
9/16 inch dia × 8 inch Carbide Tipped Auger Bit (12 inch OAL)	27850
11/16 inch dia × 8 inch Carbide Tipped Auger Bit (12 inch OAL)	27851
13/16 inch dia × 8 inch Carbide Tipped Auger Bit (12 inch OAL)	27852
15/16 inch dia × 8 inch Carbide Tipped Auger Bit (12 inch OAL)	27853
1-1/16 inch dia × 8 inch Carbide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

SOCKETS, 1/2 INCH SQUARE DRIVE

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

ID07 PARTS ILLUSTRATION

ASSIST HANDLE P/N-73636 (pictured on page 15) is available as an accessory
(Clamps onto the impact mechanism for increased stability)



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ID07 PARTS LIST

ITEM NO.	PART NO.	QTY	DESCRIPTION
1	00012	1	O-RING (ID07920, ID0792001 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	07626	1	O-RING
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, ID0792001 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 (INCL ITEM 31)
36	20770	1	MOTOR CAP ASSY (INCL 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)

ITEM NO.	PART NO.	QTY	DESCRIPTION
41	28323	1	CE STICKER (ID0781001, ID0782001, ID0792001 ONLY)
42	28788	1	MANUAL STICKER
43	60710	1	TRIGGER GUARD (ID0781001, ID07810S, ID0782001, ID0792001 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
	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 U/W (1/2 SQUARE) (ID07920, ID0792001 ONLY)
52	06757	2	HAMMER PIN
	31895	2	HAMMER PIN (ID07920, ID0792001 ONLY)
53	31896	1	HAMMER FRAME
54	31897	2	HAMMER
55	31898 32150	1	ANVIL, 7/16 QC (ID07810, ID0781001, ID07810S ONLY) ANVIL, 1/2 SQUARE (INCL ITEM 63-64 ID07820, ID0782001, ID07920, ID0792001 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)
60	31903	1	HAMMER CASE BUSHING (ID07810, ID0781001, ID07810S, ID07820, ID0782001 ONLY)
	32153	1	HAMMER CASE BUSHING U/W (ID07920, ID0792001 ONLY)
61	31904	1	HAMMER CASE
62	32029	1	PILOT RING
63	32151	1	RETAINER (ID07820, ID0782001, ID07920 ONLY)
64	08416	1	SPRING (ID07820, ID0782001, ID07920 ONLY)
65	48986	1	VALVE SPOOL ASSY
66	—	—	NO ITEM
67	49139	1	SEAL WIPER

ID07 PARTS LIST

ITEM NO.	PART NO.	QTY	DESCRIPTION
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
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
84	60681	1	TRIGGER LOCK
85	28808	1	SPRING
86	29051	1	ROLL PIN
	03693	1	STICKER, CLOSED-CENTER (SHIPPED LOOSE WITH ID07810, ID07820 ONLY)
	60791	1	SEAL KIT

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UNDERWATER TOOLS DEPTH GUIDELINE

UNDERWATER MODELS ONLY

⚠ CAUTION

DO NOT USE HYDRAULIC TOOLS UNDERWATER THAT ARE NOT DESIGNATED AS AN "UNDERWATER" MODEL, OR THIS WILL RESULT IN DAMAGE TO THE TOOL.

For underwater hydraulic tools the applications are broken down into four quadrants depending on type of tool and method of operation.

The types of tools are percussive and rotational, each with different characteristics allowing for different depth operation. With percussive tools, the nitrogen accumulator PSI must counter the increase in ambient pressure found at lower depths. Since there is a maximum PSI for percussive tools they are limited to certain depths. Rotational tools do not have accumulators and thus capable of deeper depths.

The methods are broken into diver operated or remote operated vehicle (ROV). ROV's can reach lower depths and with an on-board hydraulic power source that is depth compensated, can operate hydraulic tools at depths of thousands of feet. ROV operation is still limited to the tool, for example a percussive tool has the same depth limitation whether ROV or diver operated.

Operation Overview

	Percussive	Rotational
Diver	Tools: Breakers, Hammer Drills and Chipping Hammers Max Depth: 500' - limitations due to accumulator PSI max (increase 40 PSI for every 100')	Tools: Grinders, Saws, Chain Saws Max Depth: 1000' - Reference hose sizing guide below
ROV	Tools: Breakers, Hammer Drills and Chipping Hammers Max Depth: 500' - limitations due to accumulator PSI max (increase 40 PSI for every 100')	Tools: Grinders, Saws, Chain Saws Max Depth: 1000' - Reference hose sizing guide below

Recommended Hose Diameters

Depth (ft)	8 GPM	12 GPM
100	5/8"	5/8"
300	3/4"	1"
600	1"	1"
1000	1"	1-1/4"

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