

eclipse™
Instruction Manual

Hydraulic Punch Driver 902-598



Due to continuing improvements, actual product may differ
slightly from the product described herein.



Read this material before using this product.

Failure to do so can result in serious injury.

SAVE THIS MANUAL

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Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the month and year of purchase. Keep this manual and the receipt in a safe and dry place for future reference.

IMPORTANT SAFETY INFORMATION

In this manual, on the labeling, and all other information provided with this product:



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

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

GENERAL SAFETY RULE

TO WORK IN SAFE CONDITIONS WITH THIS TOOLING, IT IS IMPERATIVE TO READ THE DIRECTIONS CAREFULLY FOR USE AND TO FOLLOW THE INSTRUCTIONS THEY CONTAIN. IF YOU DO NOT RESPECT THE INFORMATION WRITTEN IN THIS INSTRUCTION MANUAL THE WARRANTY MAY BE VOIDED.

1. Work area safety

- a. Keep work area clean and well-lit. Cluttered or dark areas invite accidents.
- b. Keep children and bystanders away while operating the hydraulic punch driver. Distractions cause you to lose control.
- c. Please do not use or store this tool under high temperature, or one surrounded with corrosive atmosphere. Pay attention to the sealing kits (O-Rings) becoming old and/or worn out (leaking).

2. Personal safety

- a. Stay alert, watch what you are doing and use common sense when operating the tool. Do not use the tool while you are tired or still under the influence of drugs, alcohol or medication. A moment of inattention may result in series personal injury.
- b. Use safety equipment. Always use safety equipment such as eyes protector, safety cap etc to reduce the risk of personal injury.
- c. Please use the tool properly. The tool with correct power will do the job better and safer at the rate for which it was designed.

3. Service

Have your Hydraulic Punch Driver serviced by a qualified service technician using only original replacement parts. This will ensure that the safety of the Hydraulic Punch Driver Kit is maintained.

SPECIFIC SAFETY RULES

1. Maintain labels and nameplates on the tool which carry important safety information. If unreadable or missing, contact your distributor to replace.
2. This product is not a toy, keep it out of reach of children.
3. Do not slide your fingers in the dies profile.
4. Do not use the tool without punch die.
5. Do not use hands to check for leakage.
6. Do not use this tool near live circuits.
7. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.



SAVE THIS INSTRUCTIONS

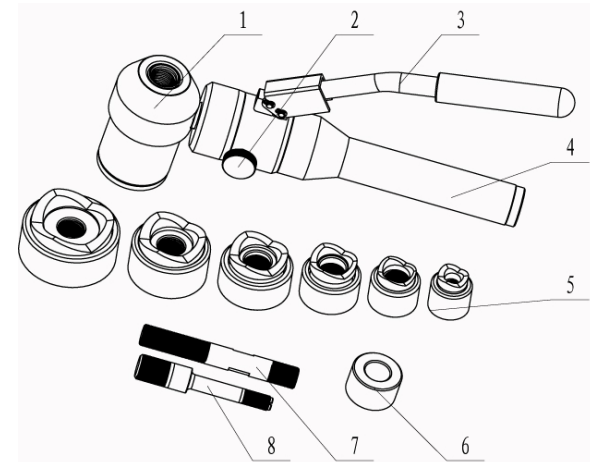
UNDERSTAND YOUR TOOL

The 902-598 tool is for punching mild metal plate. It carries many advantages of good design, easy operation, high pressure, high efficiency etc. It is the perfect tool to be used in a construction site.

1. Specification

Item	902-598
Punching range:	Ø 1/2" – 2" below .14 inch mild steel plate
Punching force:	12Tons
Stroke:	1.14 inch
Length:	approx 9.33 inch
Weight:	Approx 7 lbs
Package:	plastic box
Weight of box:	approx .44 lbs
Oil capacity:	
Oil:	15# hydraulic oil
Ambient temperature:	-20°C -40°C
Accessories:	
Round Knockout Punches type C:	1/2, 3/4, 1, 1-1/2, 1-3/4, 2inch conduit
Draw Stud:	7/16 x 3/4": 1pc
Draw Stud:	3/4"x 3/4": 1pc
Spacer:	1pc
Sealing kit:	1set
Plastic box:	1pc

2. Description of the components.



All punch/dies are actually the slug-splitting type

Code	Name	Function
1	Cylinder	Creates high pressure to activate the piston
2	Turn screw	To release the pressure
3	Active handle	For operating
4	Fixed handle	For storing oil
5	Punch dies	Changeable punch dies
6	Spacer Draw	To protect the ram
7-8	Studs	For connecting cylinder with punch & die

OPERATING INSTRUCTIONS.

Please check carefully before operating. Make sure the tool is complete and has no damaged parts.

Use this tool for the manufacturer's intended purpose only. Use other than that described in this manual can result injury or property damage.

1. Select the appropriate punch die set. Ask an authorized facility or distributor to choose proper punch die set for hole punching.

⚠WARNING

Do not exceed the rated capacity of this tool, otherwise it will cause a component failure, which could throw broken parts with great force. Failure to observe this warning can result injury or death.

2. Drill a pilot hole $\varnothing .75$ inch by electric drill in the metal sheet.
3. Thread the draw stud completely into the ram.
4. Slide the spacer onto the draw stud to protect the cylinder, and the die after, then put the draw stud through hole in the metal sheet . Lastly, thread the punch facing the steel plate. Make sure the spacer, punch, die and material are properly aligned/snug.

⚠DANGER

an improper setup could cause component damage.

⚠CAUTION

Do not operate the pump after ram motion stops. Continuing to operate the pump lever after the ram stops will damage the ram. If the ram stops before the hole is complete, stop pumping, check that the setup is correct and that you have not exceeded the tool's capacity. See the setup instruction. if necessary, disassemble the setup and try adding or removing the silver spacer.

5. Pump the pump handle until completely punched.

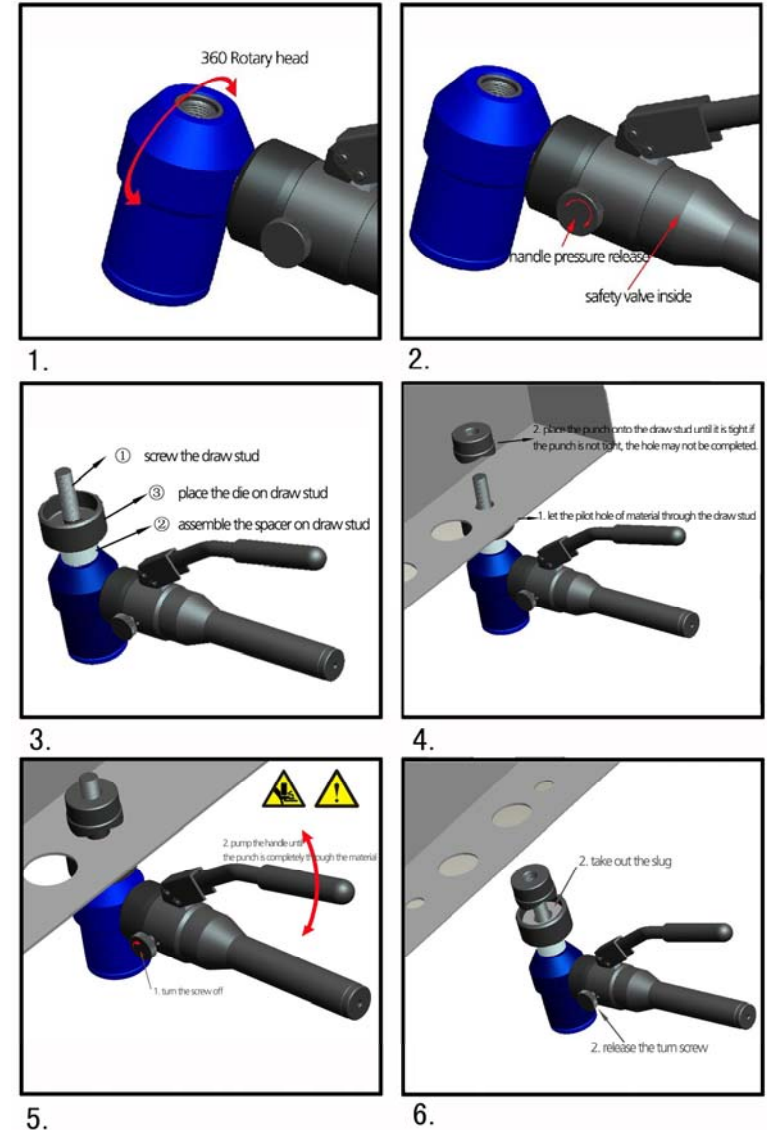
⚠CAUTION

Make sure the punching is complete during the operation to avoid the slug remaining in the the die.

6. Turn the screw counterclockwise to release the pressure from the pump.

⚠WARNING

Do not allow anyone to stand in front of the punch or behind the hydraulic ram. Ignoring this warning can result in injury or damage.



Slug-splitting die type



ITEM	SIZE
902-598	1/2, 3/4, 1, 1-1/2, 1-3/4, 2 inch conduit

The size is marked on the surface of the punch die.

MAINTENANCE AND SERVICING

⚠WARNING

Damaged equipment may cause serious personal injury. Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before using further.

1. **Before each use**, inspect the general condition of the tool. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, or any other condition that may affect its safe operation.
2. **After using**, clean external surfaces of the tool with clean, moist cloth, smear rust preventing oil on the metal surface of the tool and the dies to avoid rust. Store the tool in a dry environment.
3. Servicing to the tool should only be done by a qualified Service Technician.
4. After a long period of use, the sealing kits will be damaged, if there is leakage please contact the manufacturer and/or the distributor to change the sealing kits.

LIMITED 1 YEAR WARRANTY

We make every effort to assure that its products meet high quality and durability standards, and warrant to the original purchaser that this product is free from defects in materials and workmanship for the period of one year from the date of purchase (90 days if used as rental equipment). This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with with a Returned Material Authorization (RMA) number. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then the cusotmer must bear the cost of returning the product, should he want it back.

The warranty gives you specific legal rights and you may also have other rights which vary from state to state.

