iTOOLCO

User's Guide

GEAR PUNCH

1325 CARDEN FARM DRIVE | CLINTON, TN 37716 | 865.670.3713 | ITOOLCO.COM
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BEFORE OPERATION OF THIS TOOL, READ AND UNDERSTAND ALL OF THE INSTRUCTIONS AND SAFETY INFORMATION IN THIS MANUAL

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SAFETY FIRST

Safety is essential in the use and maintenance of this tool. This instruction manual and any markings on the tool provide information for avoiding hazards an unsafe practices related to the use of this tool. Observe all of the safety information provided.

SAFETY ALERT SYMBOLS

This symbol is used to call your attention to hazards or unsafe practices that could result in injury or property damage. The three signal words, defined below, indicate the severity of the hazard. The message after the signal word provides the information for preventing or avoiding the hazard.

DANGER

Immediate hazards that, if not avoided, WILL result in severe injury or death.

WARNING

Hazards that, if not avoided, COULD result in severe injury or death.

CAUTION

Hazards or unsafe practices that, if not avoided, MAY result in injury or property damage.

IMPORTANT SAFETY INFORMATION

WARNING

Read and understand all instructions and safety information in this manual before operating or servicing this tool.
Also read the instruction manual supplied with your drill.
FAILURE TO OBSERVE THESE WARNINGS CAN RESULT IN SEVERE INJURY OR DEATH

WARNING – PERSONAL SAFETY HAZARDS

Only qualified persons should use iTOOLco Gear Punch.
Wear eye protection and hard hat when using this tool.
Do not use this tool while tired or under the influence of drugs, alcohol, or medication.
Keep body parts and loose clothing away from moving parts.
Always follow operating procedures.
FAILURE TO OBSERVE THESE WARNINGS CAN RESULT IN SEVERE INJURY OR DEATH.

WARNING – ENTANGLEMENT HAZARD

Do not operate this tool while wearing loose-fitting clothing.
Retain long hair.
Keep hands away from any moving or spinning parts while rope or reals are on the Gear Punch. Could pinch or crush a hand or body part.
FAILURE TO OBSERVE THESE WARNINGS CAN RESULT IN SEVERE INJURY OR DEATH.

WARNING – TOOL USE HAZARDS

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

WARNING – ELECTRICAL SHOCK HAZARDS

Do not expose power tools to rain or wet conditions. Water entering a power tool can increase the risk of electric shock. Plug into a (GFCI) ground fault interrupted circuit outlet only. Use a 20 Amp 120 Volt extension cord no more than 100 feet in length. Maintain proper care of power cords. Do not use the cord to carry the tool or pull the plug from an outlet. Replace damaged cords immediately. Damaged cords can increase the risk of electrical shock. Do not use this tool near live circuits. Shut off and lock out power when working near existing circuits. FAILURE TO OBSERVE THESE WARNINGS CAN RESULT IN SEVERE INJURY OR DEATH.

WARNING – PROJECTILE HAZARD

Draw can break. Use **EXTREME CAUTION** when using Gear Punch.

During punching process avoid positions where you could be injured if a draw stud breaks and becomes a projectile.

Disassemble when not in use.

FAILURE TO OBSERVE THESE WARNINGS CAN RESULT IN SEVERE INJURY OR DEATH.

DESCRIPTION

iTOOLco's Gear Punch™ Set is the best tool for punching conduit-size holes into steel electrical panels and boxes. No other tool can produce a hole as precisely as the iTOOLco Gear Punch™.

iTOOLco's Gear Punch™ punches standard hole sizes ranging from ½" through 6" conduit sizes with 12 different punches and die to fit a variety of applications. Rated for use in mild steel or stainless steel, the iTOOLco's Gear Punch™ can also punch through aluminum and comes with an unprecedented six year warranty and a lifetime replacement on draw studs.

iTOOLco's Gear Punch™ (GP01) is powered by any make and model of corded or cordless drill – new or old – with no special add-ons required. Punches and die are clearly marked with trade standard conduit sizes and well as Center Point™ Knockout Layout Tool (CP02) marks for perfect alignment no matter what direction the hole is cut from.

iTOOlco's Gear Punch™ is compatible with punch and die offerings and comes with a Center Point™ Knockout Layout Tool accessory designs to help users quickly layout and punch knockouts. Using the Center Point™ tool makes measuring for slug busting 70 times faster than a using a tape measure because there is no math required.

SET UP AND OPERATION

1. Insert the (ND038) 3/8” Nut Driver Bit into drill Fig 1.

Fig. 1

2. Set clutch on cordless drill to the strongest clutch setting Fig 2.

3. Extend Inner Shaft above top of handle as shown by placing drill with 3/8” nut driver installed onto input shaft and running in reverse or counter clockwise Fig 3.

4. Insert Draw stud Fig 4. (DS034) into gear punch insuring that Draw stud is fully threaded into Gear Punch. When using large Draw stud Fig 5. (DS118) tighten until chamfer on Draw stud is completely seated as shown in Fig 6.

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

5. Once pilot hole is drilled (1/2”, 7/8” or 1-1/8”) Place desired Die (Cup) over Draw stud as shown in Fig 7.

Fig. 7

6. Insert Draw stud through pilot hole and thread the punch (Cutter) onto Draw stud Fig 8. Make sure threads are exposed as shown on Fig 9 to prevent Gear Punch bottoming. Align marks to insure proper centering Fig 9.

Fig. 8

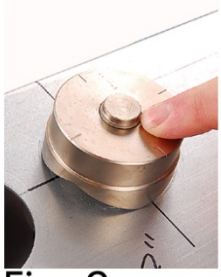


Fig. 9

7. Turn the drill to forward or to clockwise rotation. Engage trigger of drill and complete desired knock out. For easy slug removal run until the step on the cutter Fig 10. and the top of the cup meet Fig 11. Fig 12.

Fig. 10

Fig. 11

Fig. 12

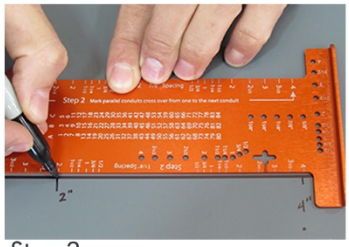
8. Place drill in reverse and run until inner shaft is exposed and repeat process for next operation.

HOW TO USE THE CENTERPOINT™ KNOCKOUT LAYOUT TOOL

1. (Optional) Mark the first conduit from the edge.
2. Determine strut size and mark the strut line.
3. Turn CenterPoint over & mark the conduit combination (folded lip up). Cross over the center line to mark the next conduit.
4. Turn Center Point over. Position alignment cross over intersecting lines. Mark the center point for the desired size.

Step 1

Step 2


Step 3

Step 4

MAINTENANCE & SERVICE

Perform quarterly for every 40 hours of usage.

To grease or replace the internal shaft:

1. Extend Inner Shaft (GP-101) above top of handle as shown, by placing drill with 3/8” nut driver installed onto input shaft and running in in reverse or counter clockwise. Key will become exposed and internal shaft freed for removal by sliding out. Maintenance & Service Instructions Fig 1.
2. Clean the Inner shaft of old grease and any debris Fig 2.
3. Coat the Inner shaft with two types of lubricant Fig 2. First use nickel based never seize. Next coat with NLGI Extreme Pressure Grease.
4. Use NLGI Extreme Pressure Grease in a gun to grease the gearbox (5 to 10 pumps depending on the gun).
5. Re-insert the Inner Shaft and align the key to the keyway. Turn the drill to forward or to clockwise rotation. Engage trigger of drill and draw the inner shaft down to 1/4” above top of Gear Punch Fig 4. Fig4. Fig 2.

Fig. 1

Fig. 2 GP-101

Fig. 3

Fig. 4

CAUTION: Do not chuck a drill directly to the input. The input shaft is not covered under warranty if it is used without the provided 3/8” bit adapters.

CAUTION: Do not bottom out the GEAR PUNCH. If 1” of the inner shaft threads are showing out the bottom and the drill sounds like it is straining, STOP and REVERSE DRILL. The Gear Punch is bottoming and damage will occur. Run in reverse until the inner shaft is exposed above the punch top and re-install punch, then start over.

GEAR PUNCH PARTS AND ACCESSORIES

All components are also sold individually.

GEAR PUNCH KITS, PARTS, AND ACCESSORIES					
	GP122 Kit Includes	**GP123 Kit Includes**	**GP124 Kit Includes**	**GP156 Kit Includes**	**GP126 Kit Includes**
Gear Punch GP01	1	0	1	0	1
Center Point Knockout Layout Tool CP02	1	0	1	0	1
7/16” x 3/4" Draw Stud DS716	2	0	2	0	2
3/4" x 3/4” Draw Stud DS034	2	0	2	0	2
3/4" x 1-1/8” Draw Stud DS118	0	0	2	2	4
3/8” Nut Driver ND038	2	0	2	0	2
7/8” Step Bit SB78	2	2	2	0	2
1/2" Punch and Die PD01	1	0	1	0	2
3/4” Punch and Die PD02	1	0	1	0	1

GEAR PUNCH KITS, PARTS, AND ACCESSORIES					
1” Punch and Die PD03	1	0	1	0	1
1-1/4” Punch and Die PD04	1	0	1	0	1
1-1/2” Punch and Die PD05	1	0	1	0	1
2” Punch and Die PD06	1	0	1	0	1
2-1/2” Punch and Die PD07	0	1	1	0	1
3” Punch and Die PD08	0	1	1	0	1
3-1/2” Punch and Die PD09	0	1	1	0	1
4” Punch and Die PD10	0	1	1	0	1
5” Punch and Die PD11	0	0	0	1	1
6” Punch and Die PD12	0	0	0	1	1
30.5MM Punch and Die PD13	0	0	0	0	0
1/2" – 2” Case GPD02	1	0	1	0	1
2-1/2” – 4” Case GPC04	0	1	1	0	1
5” – 6” Case GPC06	0	0	0	1	1

LIMITED WARRANTY: ITOOLCO GEAR PUNCH

iTOOLco warrants all new Gear Punch Kits and Parts covered by this agreement, when properly used, to be free from defects in material and workmanship under normal use and service for which it is intended for a period of one year from date of delivery by the dealer. Date of delivery shall be the date product is placed in possession of the user. NORMAL WEAR FROM USE IS NOT PART OF THIS WARRANTY. This limited warranty is extended to the original user only and is not transferrable to, nor enforceable by any other person.

iTOOLco will replace free of charge any part(s) of the product found to be defective when such part(s) is returned to iTOOLco at the address shown below, freight prepaid. If the part(s) is found to be defective, iTOOLco will refund freight charges paid by you in retuning the defective part(s) and prepay replacement part(s) freight charges. iTOOLco will not be responsible for more than replacement of any defective part(s) and standard freight charges (parcel post or UPS ground rate) of any part(s) found to be defective.

THIS IS THE EXCLUSIVE REMEDY. ITOOLCO SHALL NOT BE RESPONSIBLE OR LIABLE FOR ANY INCIDENTAL OR CONSEUQNTIAL DAMAGES RESULTING FROM ANY DEFECTS COVERED BY THIS WARRANTY OR ANY IMPLIED WARRANTY APPLICABLE TO THE PRODUCT INCLUDING, BUT NOT LIMITED TO, PROPERTY DAMAGE, LOSS OF USE OF PRODUCT, LOSS OF TIME, LOSS OF PROFITS, INCONVENIENCE, COMMERCIAL LOSS, LABOR COSTS, SERVICE TRIPS, AND MILEAGE.

Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

Dealer/Distributor Warranty Claim Procedure

1. All warranty claims must be pre-approved by iTOOLco Warranty Department PRIOR to starting any warranty work. Warranty work performed without prior approval will not be considered.
2. All claims must be handled through dealer/distributor.
3. Written approval must be received from iTOOLco before return of merchandise. A Return Authorization is to be returned with the merchandise which is sent back.
4. All parts must be returned to iTOOLco at the address shown below, freight prepaid.
5. The serial number of the product and the date of delivery must accompany the part(s) being returned.
6. If the part(s) is found to have failed because of a defect in material or workmanship, replacement will be made on a no-charge basis, and the part(s) returned, freight prepaid. Standard freight charges (parcel post or UPS ground rate) incurred in returning the part(s) will be refunded.
7. For reasons of expediency, replacement and/or repair part(s) may be shipped as soon as possible and billed to the dealer/distributor. When part(s) is returned, if it is covered under warrant, credit will be issued for the part(s) and freight charges.
8. All parts found to be defective shall be retained by and shall become the property of iTOOLco. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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