

K-DRILL

ICE AUGER

Owner's Manual

Safety and Usage Information



***K-Drill is
Made in the USA***



Please read this manual and follow its instructions carefully. The words WARNING, CAUTION, and IMPORTANT carry special meanings and should be carefully reviewed.

WARNING - Failure to read, understand and follow all warnings and instructions listed could result in serious injury or death to self or others.

CAUTION - These instructions point out special safety procedures or precautions that must be followed to avoid damaging the augers, injuries to self and others.

IMPORTANT - This provides special information to make usage of the K-Drill easier and important instructions more clear.

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		Made in the USA	

Introducing the K-Drill Ice Auger

Efficiency and light weight performance best describes the K-Drill Ice Auger. The 6", 7.5" and 8.5" K-Drill Ice Augers are all designed to be driven with rechargeable electric drills or gas power heads.

The unique center tip and high carbon steel chipper blades allow for quick and clean holes under all ice conditions. K-Drill will also work exceptionally well when re-opening existing holes.

The K-Drill has its own flotation system to prevent it from sinking down the hole if it should come detached from the drill.

K-DRILL

ICE AUGER



Drill Drive Adapter
(#IDRL28)

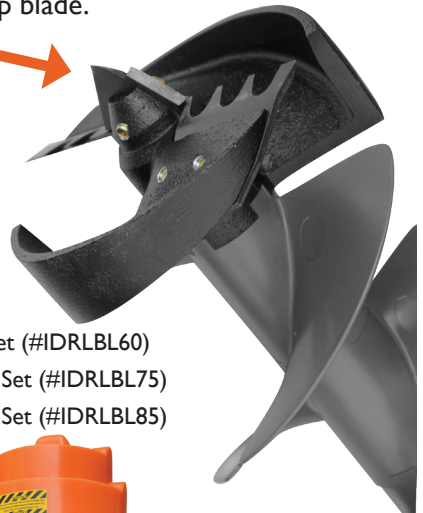
Safety Float
(#IDRLFLT)

Thermal Wrap
(#LBLA02)

Locking Collar
(#IDRLI9)

Modular Flighting
(Patent Pending)
6" - #IDRLI7
7.5" - #IDRL48
8.5" - #IDRL64

Head
Replaceable Blade Set
Each set uses two chipper blades and one
center tip blade.



6" Blade Set (#IDRLBL60)

7.5" Blade Set (#IDRLBL75)

8.5" Blade Set (#IDRLBL85)

Safety Cover

#IDRL24 (6" & 7.5") #IDRL65 (8.5")



IMPORTANT - At the end of the ice fishing season, before storing for summer, please spray WD-40 on the blades. This simple maintenance prevents rusting during storage. Also, K-Drill offers free blade sharpening. See page 9 for details.

CAUTION - Always place protective cover over blades when not drilling. Keep the electric drill assembly out of the water.

K-Drill Ice Auger Operation

Proper Drill Setup

- 1) Ensure that you have an adequate drill, meaning a half-inch chuck and a minimum of 725 in/lbs of torque.
- 2) Ensure the drill is set to its DRILL mode, not ratchet or hammer.
- 3) Ensure the drill is set to its LOWEST (slowest) gear setting.
- 4) Ensure your drill has a side-arm attachment so you can maintain a secure two-handed hold on the drill.



Attaching the K-Drill to your Electric Drill 3 Times Method

- 1) Set drill to neutral position or remove battery for your safety.
- 2) Insert the drive adapter of the k-drill into your electric drill aligning the flats on the drive adapter with the jaws of in the chuck of the electric drill.
- 3) Begin hand tightening the chuck down on the drive adapter while rotating the handle of the electric drill back and forth 15-20 degrees. Continue this hand tightening until the chuck feels tight on the adapter. Possible to use both hands to assure chuck is tight. That's #1.
- 4) Re-install battery and drill 3-4 inches of ice - tighten chuck more. That's #2
- 5) Drill 2-3 complete holes and tighten chuck more. That's #3, now the chuck is secure on the drive adapter and should be good for drilling most of your holes for the day. Always good to check again every 15-20 holes being certain nothing loosens up during use.

IMPORTANT: At no time is it safe to insert the K-Drill into the chuck and power-up the drill to tighten it onto the shaft. The same also holds true of removing the K-Drill from the chuck. Do it manually for your own safety and the safety of others. If necessary set the drill in Neutral mode or simply remove the battery when inserting or removing the K-Drill from the chuck of the electric drill.

Drilling Holes in the Ice

- 1) Important to keep protective cover in place until you are ready to start drilling ice.
- 2) Ensure drill settings are correct - lowest speed and drill mode.
- 3) Ensure K-Drill is secure in the electric drill chuck
- 4) Set center tip where you want to drill the hole and that you are holding the drill straight down.
- 5) Hold the drill handle and side-arm support firmly and pull the trigger fully while using minimum downward force to begin guiding the drill through the ice. Occasionally it will help with the support by resting the support handle on your hip/leg while drilling.
- 6) Drill no longer than 10 seconds without clearing the ice chips from the hole. As you get closer to break-through, clear the hole more often. This will reduce auger binding in the hole as well as increase your battery life. **DO NOT** let up on the drill speed until break-through, as this may result in the K-Drill binding and sticking in the hole. Optionally, place the drill in reverse and slowly spin the ice chips down and away from the hole. Slowly raise the auger as you clear the hole. Stop the drill before removing it from the hole.
- 7) Failure to clear the hole of ice chips and allowing it to build these ice chips on top of the flinging will result in damage to the top flinging sections. This will **NOT** be covered under warranty. It is the responsibility as operator to adequately "Clear Your Hole".



Redrilling of Holes in the Ice

Before explaining how to re-drill an old hole you must first understand how an existing hole refreezes.

1) It will begin refreezing from the top and outside edges

2) As it continues to freeze, the ice will continue thickening in from the sides with more ice at the top of the hole than the bottom

3) Given enough time and the right freezing conditions the hole would become a solid water column and would appear as though a hole had never been in that location. However, if you come back to this hole in a day or 2 it is possible to have a solid layer of ice on the top 1-2 inches and then you will experience the center core

being of water while the outside edges are being frozen. The further you drill down through the existing hole you will notice less and less ice on the outside perimeter of the hole and more water in the center. This is where reopening these holes may get a little tricky depending upon which blade configuration and auger head you are using and how close the auger head and cutting blades match in size. The more closely the cutting head comes to meeting the blade size, the easier it will cut and the further you will get down the existing hole.

4) Once the ice on the side of the hole is smaller than the cutting head diameter, the blades will want to grab the side walls of the remaining ice and cork-screw itself down through the rest of the ice in the hole.

5) It is extremely important to hold back on the auger at that time to prevent it from doing this little cork-screw maneuver. By holding back on the auger and allowing the blades to cut away on the thin layer of ice on the outside edge of the hole you will cut out as much of this ice as possible ALL the way down to the bottom of the hole giving you a clean hole much the same as your original hole.



Safety and Usage Tips

- DO NOT use the K-Drill Auger for anything else except for drilling ice. It was not designed to drill into soil or lumber.
- KEEP a firm hold on the drill handle and side-arm as you drill. Also maintain proper footing and balance at all times.
- DO NOT leave drill standing in partially drilled hole. It can freeze into place.
- TRAIN inexperienced operators to regularly clear hole during drilling.
- DO NOT wear loose clothing or lanyards. They can be caught in moving auger.
- BE AWARE that when cutting ice, the auger can bind, causing the drill to stop suddenly. Use caution and don't force the drill.
- CLEAR ice shards and slush several times while drilling to assure excess ice shavings do not buildup in the hole, or binding may result. CLEAR ice shards just before breaking through.
- ALWAYS set the auger in a safe place to prevent personal injury or damage to the auger shaft or blades.
- KEEP your electric drill assembly out of standing water. Rest the drill horizontally using the drill handle (battery) and side-arm as the props.
- KEEP the drill battery in a warm location prior to use in colder conditions. Keep spare batteries warm as well.
- INSPECT your K-Drill auger periodically. If damaged, have it repaired or replaced by an authorized service facility.
- KEEP the blades sharp and clean for best performance.
- DO NOT try to sharpen the blades yourself. K-Drill offers Lifetime Blade Sharpening as long as the blades remain within specifications. Free Lifetime Blade Sharpening does NOT cover negligence or misuse.



If you have problems or have a defective K-Drill, DO NOT return it to the retailer. Contact K-Drill directly for all warranty issues.

See page 10



Proper Auger-to-Drill Chucking

It is important to ensure that your K-Drill Auger is properly attached (chucked) into your cordless drill. Look closely to ensure the drill bites the auger stem properly on all three sides. Failure to do so will cause the auger to come lose as well as stem stripping shown here.

New Stem



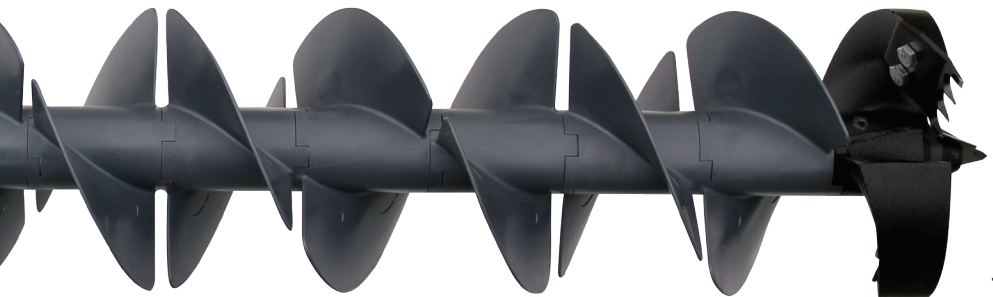
Stripped Stem



Storage & Maintenance

Make sure to store the K-Drill auger in a safe location, and out of reach of children and animals. **MAKE SURE THE SAFETY COVER IS IN PLACE DURING STORAGE!**

At the end of the ice fishing season before storing for summer, spray WD-40 on the blades to prevent rusting during the off season.



Replacing the Blades

WARNING – Blades are sharp! Use leather gloves when handling blades.

- 1) Set the drill to neutral or remove the battery from the drill for your own safety.
- 2) Remove the center tip blade with 3/16" Allen wrench.
- 3) Remove the outside chipper blades with 7/16" open end wrench.
- 4) Replace the outside chipper blades and snug the bolts into position. Then torque an additional 1/4 turn and STOP!
(If possible torque to 115 in/lbs)
- 5) Replace the center tip. Adjust the blade so it is equally spaced side-to-side from the chipper blades installed in the previous step.



IMPORTANT - The center point blade when being re-installed needs to be centered between the two main chipper blades. The unique two stage point may look like a broken tip but it is designed this way.

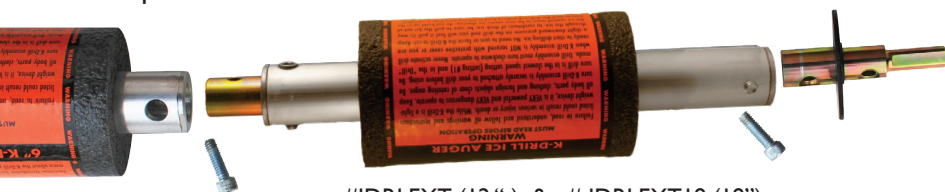
CAUTION - DO NOT OVER TIGHTEN as it will strip the threads and this will not be covered under warranty.

- 6) Torque bolt of center tip to 115 in/lbs.

K-Drill Extension Installation

The standard K-Drill can drill through up to 36" of ice. The K-Drill extension can be added for thicker ice conditions. Extensions can be "stacked" if needed to create a very long ice auger.

- 1) Slide the down float, exposing the Allen bolt.
- 2) Remove the bolt and remove the drive adapter with washer.
- 3) Install the stem of extension. Replace and tighten bolt removed in step #2.
- 4) Install the driver adapter with washer into top of extension. Secure it with the bolt provided.



Free Lifetime Blade Sharpening

K-Drill blade sharpening is **FREE** for the life of the product unless the blades have been abused by drilling into rock, gravel, sand, etc., or until the blades can no longer be sharpened. Refer to the warranty policy at the back of this manual.

The blades can be re-sharpened 2-3 times under normal use, before needing replacement. After re-sharpening blades multiple times they may fall outside the specification and will no longer cut efficiently. It will then be necessary to purchase a new replacement set of blades for your K-Drill. Under normal use, blades should be sharpened every 2 to 3 years.

Please let us know if you would like to purchase an additional set of blades when you return your blades for re-sharpening. We will notify you at the time of re-sharpening whether your blades cannot be re-sharpened due to wear or neglect.

When returning a set of blades for re-sharpening please wrap them securely to protect the sharp edges. Allow 2 to 3 weeks for processing. Send them to the address shown below:

K-Drill Blade Re-Sharpening
6667 West Old Shakopee Rd. Suite 102
Bloomington, MN 55438



#IDRLBL60 (6") (shown)
#IDRLBL75 (7.5")
#IDRLBL85 (8.5")

WARNING - Even used blades can be **SHARP**. Handle them with care. Wrap loose blades in cardboard to protect sharp edges.

IMPORTANT - Be certain to include your name, address and phone number along with your returned blades.

Parts and Accessories

To purchase other parts and accessories for the K-Drill Ice Auger Systems please contact K-Drill customer service at 952-224-3649 or visit kdrillauger.com to place an order online.

Replacement Parts

IDRLBL60:	6" Replacement Blades (Set of 3 blades)
IDRLBL75:	7.5" Replacement Blades (Set of 3 blades)
IDRLBL85:	8.5" Replacement Blades (Set of 3 blades)
IDRL24:	Replacement Safety Cover for 6" & 7.5" K-Drill
IDRL65:	Replacement Safety Cover for 8.5" K-Drill
IDRLFLT:	Replacement Float for K-Drill
IDRL28:	Replacement Drive Adapter
LBLA02:	Replacement Thermal Wrap
IDRL19:	Replacement Locking Collar
IDRL17:	Replacement Flighting for 6" Auger (requires 8 pcs)
IDRL48:	Replacement Flighting for 7.5" Auger (requires 6 pcs)
IDRL64:	Replacement Flighting for 8.5" Auger (requires 6 pcs)

Accessories

IDRLEXT:	12" Auger Extension
IDRLEXT18:	18" Auger Extension
IDRLADPC:	Adapter for Clam Drill Plate
KLKG001:	Kluge Drill Attachment



#IDRLADPC
Clam Drill Plate Adapter



#KLKG001
Kluge Drill Attachment
T-Handle Adapter to be used
from StrikeMaster hand
auger to electric drill

K-Drill Cordless Drill Requirements

You can use any cordless drill brand you choose, as long as it meets the following minimum requirements:

- 1) Side Stabilizer Arm (for a secure two-handed grip)
- 2) 1/2" Drill Chuck
- 3) 18 Volt/4 Amp Lithium Ion Battery (or higher)
- 4) Brushless Motor Design
- 5) 500-750 RPM with a minimum of 725 in/lbs of torque (or higher)

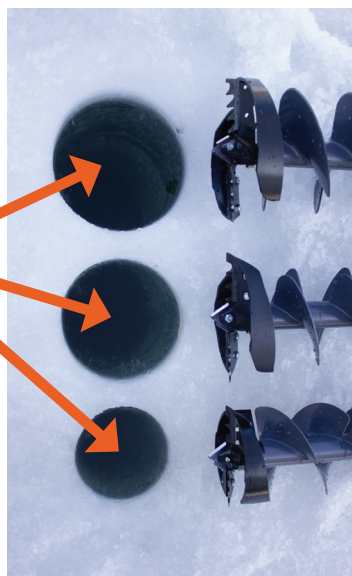
Most of the Milwaukee M18 fuel series and most DeWalt MX XR series can be used with the K-Drill. Before you buy, please visit kdrillauger.com to see a complete list of specifically approved and tested drill models.



Milwaukee M18 Fuel

K-Drill Specifications

Auger Weight:	5.20 Lbs (8.5")
	4.75 Lbs (7.5")
	3.90 Lbs (6")
Cutting Diameter:	8.5" (#IDRL85)
	7.5" (#IDRL75)
	6.0" (#IDRL60)
Overall Length:	38"
Flighting Length:	24"
Drive Stem Dia:	1/2"
Float Length:	7"
Float Diameter:	3.5"
Shaft Diameter:	1.375"



Wear

Hoody Sweatshirt

Our charcoal K-drill hoodies are definitely one of the heaviest and warmest hoodies around.

- Sueded 70% cotton & 30% polyester fleece
- Rib knit side gussets, cuffs and waist
- Key pocket inside pouch
- 1/4 zip collar with YKK zipper
- Super-thick draw cords
- Screen printed logo



Truckers Cap

2-tone grey and black with K-Drill embroidered logo, mesh top with snap back.

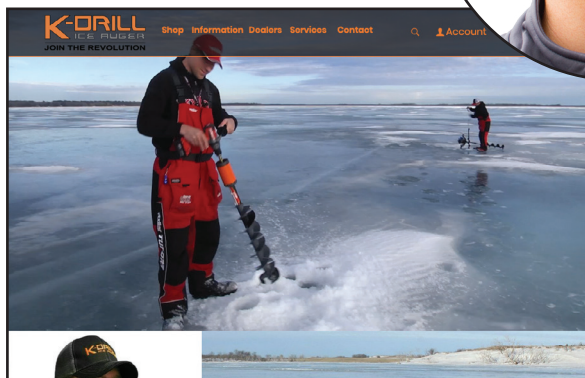
- Grey / Black
- Mesh top
- Snap back
- Screen printed logo



Knit Stocking Cap

A very comfortable 2-tone grey and black knit, with K-Drill embroidered logo. Fits nicely over the Truckers Cap.

- Warm knit material
- Embroidered logo



Go to kdrillauger.com to Order!

LIMITED WARRANTY FOR THE K-DRILL ICE AUGER SYSTEM

#IDRL60 (6"), #IDRL75 (7.5") & #IDRL85 (8.5") K-DRILL AUGER 1 Year Limited Warranty from the Date of Purchase

For the time period shown, from the date of purchase, K-Drill will, at its option as the exclusive remedy, either repair or replace for the original purchaser, free of charge, any part found, upon examination by K-Drill, to be DEFECTIVE IN MATERIAL AND/OR WORKMANSHIP, except as provided below. This Limited Warranty DOES NOT COVER (i) any parts(s) that has been damaged by accident or misuse, or (ii) defects or damage caused by alterations or modifications of the K- Drill Ice Auger Systems or parts (iii) improper maintenance, improper use or abuse of the product, or failure to follow the instructions contained in the Instruction Manual for the operation of the K-Drill Ice Auger Systems or part. The cost of normal maintenance or replacement of service items which are not defective shall be paid for by the original purchaser. At the time warranty service is requested evidence must be presented of the date of purchase by the original purchaser. Any charge for transporting of any K-Drill Ice Auger Systems parts(s) thereof to the place where the inspection and/or warranty work is performed is payable solely by the purchaser. The purchaser is responsible for any damage or loss incurred in connection with the transportation of any K-Drill Ice Auger Systems part(s) thereof submitted for inspection and/or warranty work.

WARRANTY SERVICE CAN ONLY BE PERFORMED BY AWC AT ITS FACTORY IN BLOOMINGTON, MINNESOTA.

Warranty service can be arranged by contacting:

AWC / K-Drill, 6667 West Old Shakopee Road, Suite 102, Bloomington, MN 55438
or contact by telephone (952) 224-3649 Monday-Friday between 8:00 AM – 4:30 PM CST.

THIS EXPRESS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES. Neither K-Drill nor any of its affiliates makes any warranties, representations, or promises, written or oral, as to the quality of the K-Drill Ice Auger Systems or any of its parts, other than as set forth herein. ANY IMPLIED WARRANTY OF MARKETABILITY, MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE, TO THE EXTENT THAT EITHER MAY APPLY TO ANY K-DRILL ICE AUGER SYSTEMS OR PART(S) THEREOF, SHALL BE LIMITED IN DURATION TO THE PERIODS OF THE EXPRESS WARRANTIES SHOWN IN THE WARRANTY PERIOD CHART ABOVE AND TO THE EXTENT PERMITTED BY LAW ANY AND ALL IMPLIED WARRANTIES ARE EXCLUDED. IN NO EVENT WILL K-DRILL BE LIABLE FOR ANY INDIRECT, INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES AND/OR EXPENSES, INCLUDING, BUT NOT LIMITED TO, ANY LOSS OF TIME, INCONVENIENCE, LOSS OF UNIT USE OR ANY COST OR EXPENSE OR SUBSTITUTE UNITS DURING PERIODS OF MALFUNCTION OR NON-USE.



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