



BN Products-USA™

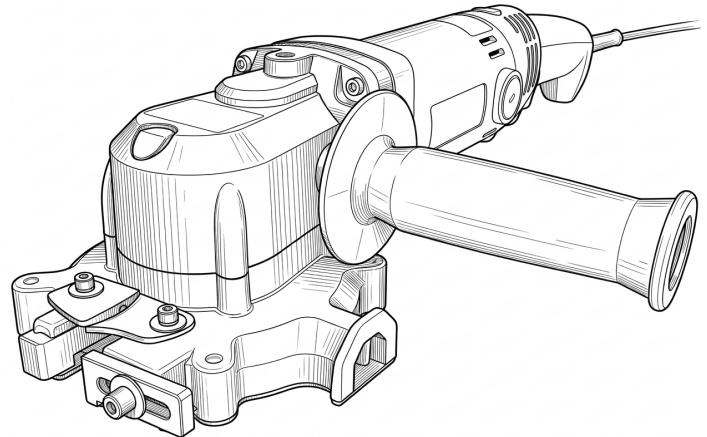
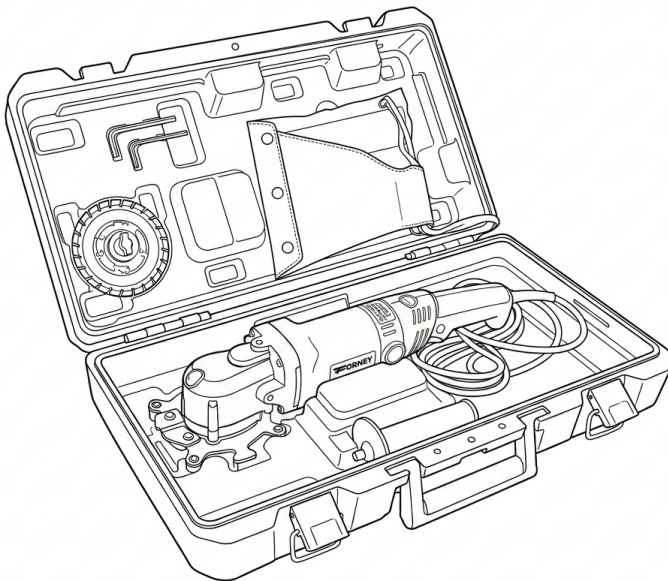
A DIVISION OF BENNER-NAWMAN, INC.

THE CUTTING EDGE SAW™
BNCE SERIES

MODELS BNCE-20 | BNCE-30

OPERATOR MANUAL

CUTTING EDGE SAW™ MODELS: BNCE-20 | BNCE-30



Multi-Material Cold-Cutting Saw

Ideal For

Steel - Rebar - All-Thread
Pipe - Tubing - PVC
& More

THE CUTTING EDGE SAW™

MODEL #

SERIAL #

The award-winning Cutting Edge Saw™ is a lightweight cold-cutting saw ideal for cutting rebar, steel, and numerous materials, yielding a burr-free and cool-to-touch cut - setting the standard in steel-cutting quality and safety.

Each Cutting Edge Saw™ package includes two (2) standard TCT cutting blades, a tool kit, chip collection bag, and one (1) set of replacement carbon brushes, in a durable carrying case.

BN Products-USA™

3450 N Sabin Brown Road
Wickenburg, AZ 85390



BNProducts.com
(800) 992-3833



Instruction Manual

Please read this manual before operating this tool.

Operation and Instruction Manual

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This manual is intended to provide users with correct knowledge and the procedures for operation, maintenance and inspection of the tool, a multipurpose flush cutting saw for cutting reinforcing bar, coil rod, all-threaded rod, pipe, tubing, and conduit. Improper use of the tool may possibly lead to a serious accident. Therefore, always read this instruction manual before using the tool to familiarize yourself with its correct usage, operating method, warnings, etc.

Safety Instruction - General Safety Rules

⚠ Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.

PLEASE SAVE THESE INSTRUCTIONS

Work Area Safety

- Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- Do not operate power tools in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

Electrical Safety

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.

- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock. Replace damaged cords.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
- If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

NOTE The term "residual current device (RCD)" may be replaced by the term "ground fault circuit interrupter (GFCI)" or "earth leakage circuit breaker (ELCB).

Personal Safety

- Always wear eye protection. Care must be taken to prevent chips from hitting other workers in the same area.
- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.



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- Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
- Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
- If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.
- does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.
- Power tools are dangerous in the hands of untrained users.
- Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

Power Tool Use and Care

- Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- Do not use the power tool if the switch



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Service

Have your power tool serviced only by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

Contents of the Cutting Edge Saw™ Package

Upon purchasing the Cutting Edge Saw, open the carrying case and check the contents for the following:

120 Volt Corded Cutting Edge Saw Package

1. BNCE-20 or BNCE-30 Corded Cutting Edge Saw with blade mounted : 1 unit
2. Removable Side Handle and chip collector attachment: 1 unit
3. Allen Wrenches for Blade Removal and Installation: 1 unit
4. Additional Saw Blade: 1 unit
5. Operation Manual: 1 copy
6. Extra set of carbon brushes

If anything is missing or damaged please do not return this packaged unit to the distributor, please call the Benner-Nawman customer service department: 800-992-3833 or 928-684-2813

Function and Usage

This section describes the functions, applications, service environment and other aspects of the Cutting Edge Saw. The Cutting Edge Saw is a power tool developed for fast and efficient cutting of various ferrous and non-ferrous materials. This multipurpose tool can be used by a variety of contractors however the primary design was for flush cutting or free cutting reinforcing bars, coil

rod and all-threaded rod used in the construction industry.

Usage of the Tool - Actual areas of application the Cutting Edge Saw is used for are as follows:

BNCE-20

3/8" to 3/4" or 10 mm to 19 mm grade 60 rebar (reinforcing bars), up to 1/2" I.D. pipe, 3/4" O.D. copper water pipe, 3/4" O.D. tubing, 1/2" conduit, 3/4" square steel tubing & bar, and up to 7/8" O.D. all-threaded or coil rod.

BNCE-30

3/8" to 1" or 10 mm to 25 mm grade 60 rebar (reinforcing bars), up to 1/2" I.D. pipe, 1" O.D. copper water pipe, 1" O.D. tubing, 1" conduit, 1" square steel tubing & bar, and up to 1" O.D. all-threaded or coil rod.

Specification

The Cutting Edge Saw™ is a multipurpose saw with an enclosed guard and flush cutting capabilities. The specifications of the main unit are as follows.

Standard Blade

RB-BNCE-KNH (BNCE-20); RB-BNCE-30 (BNCE-30)

BNCE-20

Supplied with (2) each 110 mm Blade diameter × 1.6mm thickness, 24 teeth with laser welded flange for mounting to Cutting Edge saw spindle. The maximum blade RPM is 2000.

BNCE-30

Supplied with (2) each 127 mm Blade diameter × 1.6mm thickness, 24 teeth with laser welded flange for mounting to Cutting Edge saw spindle. The maximum blade RPM is 2000.



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Operation

Checking and Preparation of Working Environment:

- Be aware of surroundings - keep the work area clear of people or objects that could interfere or be injured/damaged.
- Know current weather conditions, do not use in the rain or snow:

DANGER: The Cutting Edge is not a waterproof power tool. If it becomes wet, the power source system may become faulty or the operator may get an electric shock. Therefore, when it is raining or snowing, never operate this saw outdoors, on top of buildings or under roofs where rain or snow enters freely. Do not use where water accumulates or where water splashes.

Operation Instructions

- Adjust the rear handle position to comfortably grip the tool. (The rear handle changes position with the button located on the top of the handle.)
- Locate the front handle in the mounting hole that provides the best grip.
To operate the trigger, depress the trigger lock button (on the side of the tool) and then pull the trigger to start the saw.
- Start the saw before cutting and then apply a light pressure moving forward through the cut.

⚠ DANGER: Electric Shock Hazard. Ignoring this warning may lead to death or serious injury. When raining or snowing, do not operate outdoors or indoors where rain or snow enters freely or in extreme temperatures.

⚠ Do not use under high temperature and humidity or extremely cold temperature conditions. The tool is designed for use under an allowable environmental temperature of 32° F to 100° F. Operation at higher temperature may cause the tool's main unit to overheat.

Operational Maintenance

- Always unplug the saw from the electric outlet before attempting any maintenance. Clean the entire unit occasionally by removing dust, debris and oils.
- Regularly remove the flush cutting bottom plate; then remove any cutting chips that remain lodged in the area the cutting blade rotated; remove the blade to clean, as necessary.
- It is recommended that the Cutting Chip Catch bag be emptied when it becomes 2/3 full of cut material.

Blade Replacement

The standard blade (RB-BNCE-KNH for BNCE-20 or RB-BNCE-30 for BNCE-30) Cutting Edge Saw™ should be replaced when the blade is dull or visibly worn, or when there is a noticeable decrease in cutting efficiency.

To change the Blade:

- Unplug the saw before performing any work on the tool blade.
- Using the smaller Allen key tool, remove the four (4) screws that hold the Blade Cover to the body of the saw.
- Remove the cover, being careful to set the four mounting screws and the accompanying locking nuts aside in a safe place
- When the blade is locked, remove the four (4) mounting screws that secure the blade, using the tool provided with a new blade package. Clean any debris and metal chips from the blade head and inside the blade cover.



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- Install the new blade, use the replacement screws and the included Allen tool to secure the new blade firmly. **Do not overtighten.**
- Replace the blade cover using the four (4) mounting screws, making sure that the locking nuts are still inserted in the threaded hole for each mounting screw. Securely fasten each screw without overtightening.

Carbon Brushes - Inspect & Replace

Carbon Brushes are subject to wear over time. Brushes should be inspected after every 100 hours of use. At least 1/4" of the wearable surface should remain for the tool to perform optimally.

To inspect (and replace when necessary) carbon brushes on the Cutting Edge Saw™:

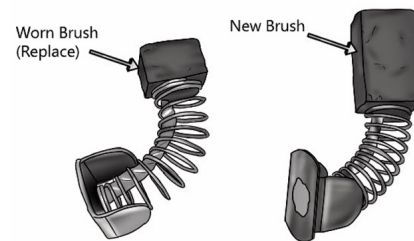
- Unplug the tool before performing any work, allow the tool to cool if it has recently been used.
- Locate the Brush Cap(s) on either side of the saw.



- Use a small flathead screwdriver to remove the cap by turning counter-clockwise, using the slot provided at the center of the cap, and remove the cap.
- Remove the brush from the socket; use a small screwdriver to gently pry the brass spring seat, if necessary.



- Inspect the brushes to determine if they should be replaced. Use the diagram in Figure 7 as a general guide for determining the condition of each brush.



- Inspect the brushes to determine if they should be replaced. Use the diagram in Figure 7 as a general guide for determining the condition of each brush.
- To re-install the brushes or replace with a new set, the brush should be inserted into the brush carrier socket on each side of the tool. The brass spring seat should be positioned so that it fits completely into the socket to ensure connectivity to the motor's electrical circuit.
- Re-install the brush cap by threading the cap into the receptacle, using the flathead screwdriver; do not overtighten.
- Complete this procedure for both brushes, on the right and left side of the tool handle.

General Cautions

- Do not use the Cutting Edge Saw™ for purposes that it is not intended for, or attempt to cut materials larger than capacity.
- Use only replacement blades recommended or sold by BN Products-USA™. These blades are designed specifically for the Cutting Edge Saw™
- This Product is subject to ongoing enhancement and development. Parts, part numbers, design, and specifications may be changed pertaining to this product at any time, with or without prior notification to end users, distributors, or manufacturer representatives.



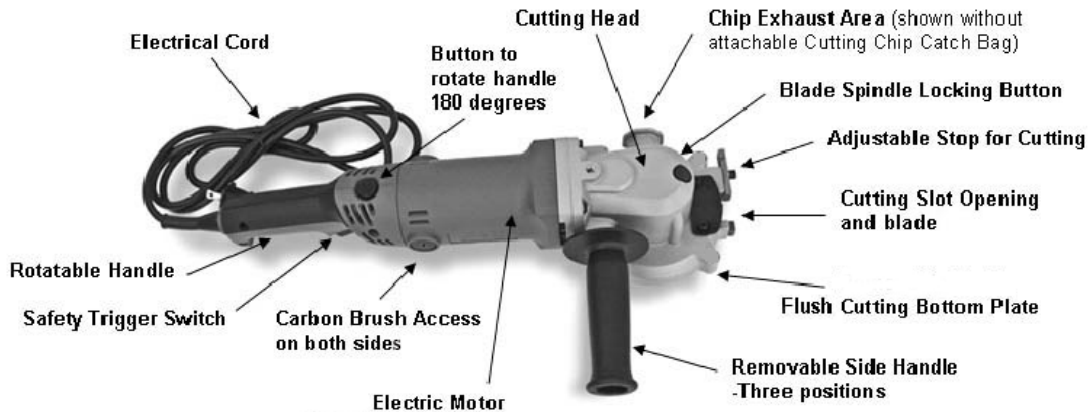
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External Parts & Controls



Model No.	BNCE-20	BNCE-30
Power Supply	120 Volt -60 Hz, 9 Amp, Single phase	
Electric Motor Type	1100 Watt Double Insulated	
No-Load Blade Speed	2,000 RPM	
Max Cutting Capacity	3/4" (20 mm)	1-1/8" (25 mm)
Max Blade Diameter	110 mm (4.38")	127 mm (5")

ONE-YEAR LIMITED MANUFACTURER WARRANTY

BN Products-USA™ warrants our tools to the original purchaser to be free of defects in materials and workmanship under everyday and appropriate use and service for one year. Use the applicable QR code or web URL below to access our full One-Year Warranty policy and procedure, or to complete a Warranty Service Request for this product.

If you are requesting Warranty Service, it is recommended that you have your original purchase order available to upload or scan using a mobile device. Questions with regard to our One-Year Limited Manufacturer Warranty may be directed to BN Products-USA™ Customer Service at (800) 992-3833.

ONE-YEAR LIMITED WARRANTY

<https://www.bnproducts.com/warranty-1/>



REQUEST WARRANTY SERVICE ONLINE

<https://www.bnproducts.com/warranty-request/>

