



BNProducts-USA™

A DIVISION OF BENNER-NAWMAN, INC.

WWW.BNPRODUCTS.COM

BNCE-45 Cutting Edge Saw™

Customer Service: (800) 992-3833

mail@bnproducts.com

THE CUTTING EDGE SAW™

BNCE SERIES

BNCE-45

120V AC | 45MM | MULTI-MATERIAL SAW



MODEL BNCE-45 SN# _____

*Keep this booklet and enter your tool serial number
in the space provided above.*

BN Products-USA™

3450 N. Sabin Brown Road

Wickenburg, AZ 85390

(800) 992-3833 | www.BNProducts.com

**OPERATOR &
INSTRUCTION MANUAL**



OPERATOR & INSTRUCTION MANUAL

Please read this manual before operating this tool.

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External Parts & Specifications

BNCE-45 External Parts Diagram:

Operator controls and terms used in this Manual

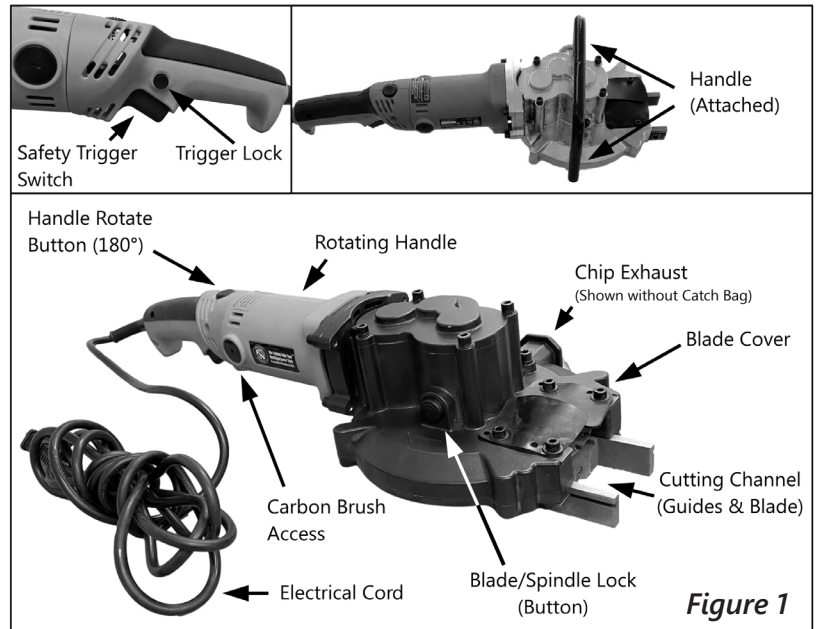


Figure 1

BNCE-45 Cutting Edge Saw™ Tool Specifications:

Technical Specifications, Tool Capacity, and Included Accessories

Voltage/Amperage	120V 60Hz / 9 A
Watts	1100W
Replacement Blade	6.5" (165 mm) Tungsten Carbide Tipped (RB-BNCE-45 Standard) Strut Blade (RB-BNCE-45S) Available/Sold Separately
Cutting Capacity	Rebar - #11 (1-3/8"; 35.8 mm) Strut - 1-5/8"
No Load RPM	1200
Depth of Cut	1-7/8" (47.6 mm)
Length x Width x Height	20" x 8" x 7" (515 mm x 155 mm x 101 mm)
Net Tool Weight	10.5 lbs. (4.8 kg)
Accessories Included:	(1) Heavy-Duty Carrying Bag / Allen Wrenches (2) (2) RB-BNCE-45 standard blades - Installed (1); Replacement (1) (1) Set replacement carbon brushes (1) Chip collection attachment



Purpose of this Manual

This manual is intended to provide users with correct knowledge and the procedures for operation, maintenance and inspection of the BNCE-45 Cutting Edge Saw™. This tool is used to cut rebar, strut, all-thread rod, pipe, tubing, and conduit. Improper use of the tool may lead to a serious accident. Therefore, always read this instruction manual before using the tool to familiarize yourself with its correct usage, operating method, and warnings.

Safety Instruction & General Guidelines



Warning! 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 explosive atmospheres, such as 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.
- Do not use the cord for any purpose that it was not intended for. 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.
- 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.

Power Tool Use and Care

- Power tools are dangerous in the hands of untrained users.
- 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 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.
- 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.

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 BNCE-45 Package

1. BNCE-45 Corded Cutting Edge Saw with blade (RB-BNCE-45) mounted : 1 unit
2. Handle and chip collector attachment: 1 unit
3. Allen Wrenches for Blade Removal and Installation: 1 unit
4. Additional RB-BNCE-45 saw blade: 1 unit
5. Operation Manual: 1 copy
6. Replacement set of carbon brushes

If any contents are missing or damaged, please do not return this packaged unit to the distributor, please call BN Products-USA™ Customer Service department: (800) 992-3833.

Intended Use of the BNCE-45 Saw

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 construction.



The BNCE-45 Cutting Edge Saw™ is designed for cutting:

- Grade 60 rebar (reinforcing bars), up to #11 (1-1/2")
- 1-3/4" copper water pipe, tubing, conduit, square steel tubing and bar
- 1-3/4" All-threaded or Coil rod
- 1-5/8" Strut

Usage Guidelines and Storage

To use the tool to its fullest performance, the Cutting Edge Saw™ should be clean and stored in its proper case and free of excessive heat or cold.

Before using this product, it is extremely important to be fully familiar with the tool and it's controls, the cutting blades, and storage procedures upon completion of work.

This power tool is a multipurpose saw with an enclosed guard.

Standard Blade (Best for Ferrous Metals)

The BNCE-45 is supplied with two (2) 6.5" (165 mm) diameter blades (36 teeth, with laser welded flange for mounting to Cutting Edge Saw spindle). The no-load blade RPM is 1200 RPM.

Operating Conditions

Working Environment:

Before using the Cutting Edge Saw, be aware of weather conditions.

Do not use in the rain or snow.



! DANGER: The Cutting Edge Saw is not a waterproof power tool. If it becomes wet, the power source system may become faulty or the operator is at risk for electric shock.

When it is raining or snowing, never operate this saw outdoors, on top of buildings or under roofs with rain or snow exposure. Do not use where water accumulates or is prone to splashing.



! 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, humidity or extremely cold temperature conditions.

This tool is designed for use under an ambient temperature of 100°F (37° C). Operation at higher temperature may cause the tool motor to overheat. Operation in extreme temperature or high humidity may cause the tool to fail due to condensation buildup inside the tool housing.

Do not operate the Cutting Edge Saw in temperatures below freezing (32° F / 0° C).

Inspect the State of Your Work Site

Before using the tool, always determine that:

- The worksite is free of foreign objects, debris, water, ice, snow, powered electrical cables, and excessive dust
- The floor is free of obstructions
- There is adequate ventilation for the immediate area
- The worker is equipped with proper PPE and clothing, including but not limited to PPE, enclosed footwear, and gloves.

Always follow the operation instructions; avoid hazardous conditions and scenarios.

Remove Hazardous Substances

This tool is an electric/power tool. A spark can cause an explosion or a fire if operated near gas cylinders, paint thinner, or flammable materials, including flammable gasses. Do not use near or expose the tool to hazardous or flammable materials.



! DANGER May cause an explosion or a fire. Ignoring this warning may cause death or serious injury. Never use the tool near flammable gas or flammable materials or liquids.



Operating Instructions

- Adjust the rear handle position to comfortably grip the tool. (The rear handle changes position using 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 left side of the tool above the trigger; (See *Figure 1*) and then depress the trigger to start the saw.
- Start the saw before cutting and then apply a light pressure moving forward through the cut.

Cutting Edge Saw™ Routine Maintenance

- Always unplug the saw from the electric outlet before attempting any maintenance.
- Clean the entire unit occasionally by removing dust, debris and oils.
- Occasionally remove the bottom plate; remove any cutting chips that remain lodged in the area where the cutting blade rotates.
- Remove and inspect the cutting blade for material residue. This should be done after 4-8 hours of use.
- Most material cutting debris will be expelled through the chip exhaust area and into the Cutting Chip Catch Bag. It is recommended that the Cutting Chip Catch bag be emptied when it becomes 2/3 full of cutting debris and materials.

Blade Replacement

The standard blade (RB-BNCE-45) for the BNCE-45 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. See *Figure 2*
- Remove the cover, being careful to set the four mounting screws and the accompanying locking nuts aside in a safe place.

- Press the blade/spindle lock button to secure the blade spindle (See *Figure 1*). You may need to manually rotate the blade so that the lock button engages and is secured in a locked position.
- When the blade is locked, use the larger Allen key to remove the blade mounting screw and blade locking head at the center of the blade (*Figure 3*). Note: With the blade spindle locked, you will need to rotate the screw in a counter-clockwise direction.
- Make sure that when the blade is removed, that the blade head is free of any metal debris that has not escaped the tool. As needed, clean the tool to remove any metal chips or particles from the blade head area.
- Install the new blade over the spindle at the center opening. BN Products-USA™ blades will be marked "This Side Up" to ensure that the blade is not installed upside-down. In addition, each blade is printed with a directional arrow (*Figure 3*). This arrow must always point in the same direction as the arrow marked on the top side of the blade cover, as shown in *Figure 4*.
- Replace the blade locking head using the blade mounting screw, using the Allen key to securely tighten the screw in a clockwise direction. **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.

See Figures 2, 3, and 4 on the next page.

Follow this same procedure when installing a specialty blade, such as the RB-BNCE-45S Strut Cutting Blade (sold separately). Always save the Allen key tools with the saw in a safe place for future use.

Please contact your distributor or call BN Products-USA™ Customer Service at the number above or visit us on the web www.bnproducts.com for more information or assistance with product operating instructions, or essential maintenance.

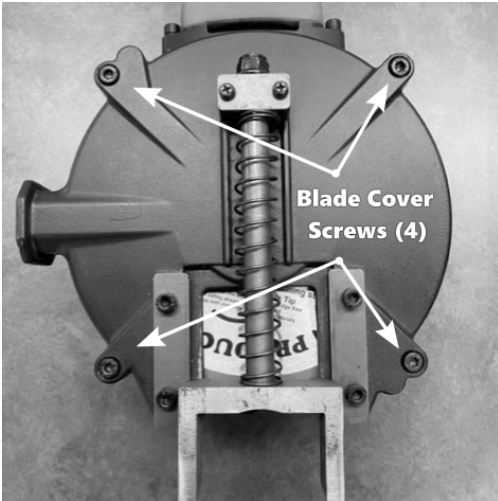


Figure 2

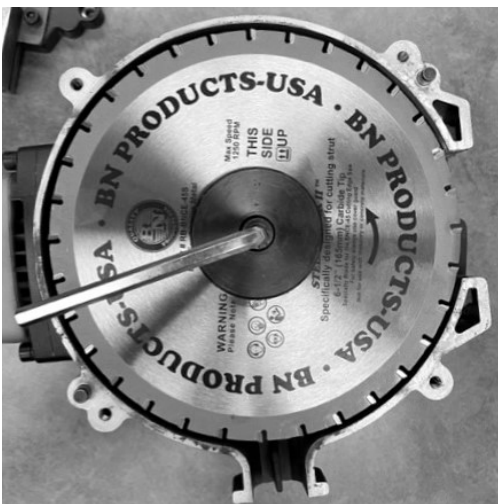


Figure 3



Figure 4

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 (Figure 5)



Figure 5

- 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 (See Figure 6).

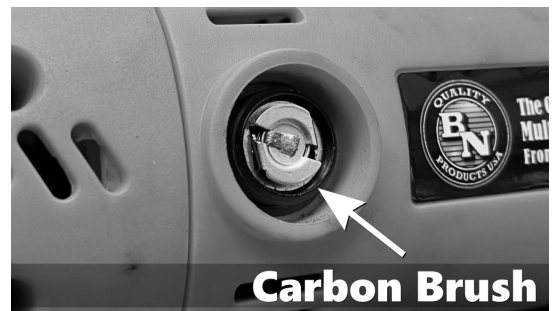


Figure 6

- 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.



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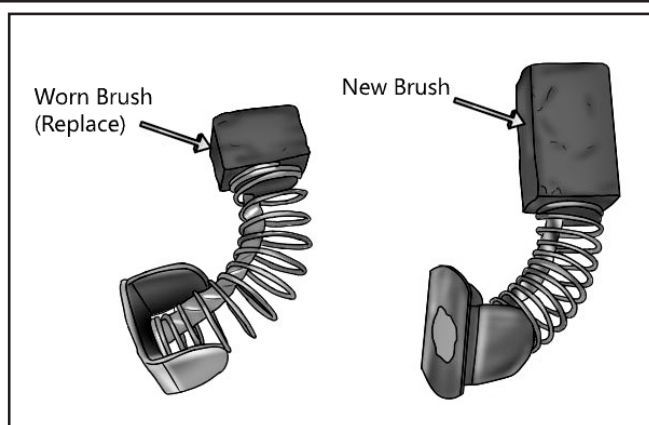


Figure 7

- 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 complete into the socket to ensure connectivity to the motor's electrical circuit.
- Re-install the brush cap (Figure 5) by threading the cap back into the brush cap receptacle, turning clockwise using a small flathead screwdriver. Do not overtighten.
- This procedure should be completed on both brushes, one each on the right and left side of the tool handle.

General Operating Cautions

The following describe the general cautions on operating tool. Always observe the cautions stated in each item.

- Do not depress the operating trigger if the tool is pointed toward another individual. Operating the tool by holding it toward anyone may cause injury from contact with the blade.
- Do not use the Cutting Edge Saw for purposes it is not intended, or attempt to cut materials wider than recommended specifications, as doing so may lead to injury or damage to the Cutting Edge Saw™
- Use only replacement saw blades recommended by BN Products-USA™. Recommended blades are designed specifically for the tool, and have been tested for safety and effective use with 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.

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.

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