

## RIDGID R09890B

# RIDGID HyperDrive Brushless 18V 2-1/8 in. Brad Nailer

Model: R09890B - Instruction Manual

## 1. INTRODUCTION

Thank you for choosing the RIDGID HyperDrive Brushless 18V 2-1/8 in. Brad Nailer. This cordless tool is designed to provide the power and performance of a pneumatic nailer without the need for a compressor, hose, or gas cartridge. It offers a faster setup and enhanced maneuverability for various fastening applications. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your brad nailer.

The HyperDrive technology ensures consistent driving power for 18-Gauge nails ranging from 5/8 in. to 2-1/8 in. For optimal performance and longevity, please read and understand all instructions before use.

## 2. GENERAL SAFETY INFORMATION

Always observe basic safety precautions to reduce the risk of fire, electric shock, and personal injury when operating power tools. Keep this manual for future reference.

- **Read All Instructions:** Familiarize yourself with the tool's operation and safety guidelines.
- **Wear Eye Protection:** Always wear ANSI Z87.1 compliant safety glasses with side shields.
- **Wear Hearing Protection:** Prolonged exposure to noise from power tools can cause hearing damage.
- **Dress Properly:** Do not wear loose clothing, jewelry, or long hair that can get caught in moving parts.
- **Keep Work Area Clean:** Cluttered areas invite accidents.
- **Maintain a Firm Grip:** Always hold the tool firmly with both hands during operation.
- **Disconnect Power:** Remove the battery pack before making adjustments, changing accessories, or storing the tool.
- **Avoid Accidental Starting:** Ensure the switch is in the OFF position before inserting the battery pack.
- **Use the Right Tool:** Do not force a small tool or attachment to do the job of a heavy-duty tool.
- **Inspect Tool Before Use:** Check for misalignment or binding of moving parts, breakage of parts, and any

other condition that may affect the tool's operation.

### 3. PRODUCT OVERVIEW

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The RIDGID HyperDrive Brad Nailer is engineered for efficiency and durability. Below are key components and features of the tool.



**Figure 1:** Overall view of the RIDGID HyperDrive Brushless 18V 2-1/8 in. Brad Nailer. This image displays the complete tool, highlighting its ergonomic design and the magazine for brad nails.



**Figure 2:** Side view of the brad nailer, illustrating the nail magazine and the general profile of the tool. The magazine holds the 18-Gauge brad nails.



**Figure 3:** Close-up of the firing mode selector switch, located near the trigger. This switch allows the user to select between sequential and contact actuation modes for different applications.



**Figure 4:** Detailed view of the nosepiece and depth adjustment dial. The depth adjustment allows for precise control over how deep the nail is driven into the material.



**Figure 5:** Rear view of the brad nailer, showcasing the 'HyperDrive 18 Ga Brad' branding and the robust construction of the tool's housing.



**Figure 6:** An exploded view illustrating the internal piston and driver mechanism of the HyperDrive system. This shows the core components responsible for driving nails.



**Figure 7:** Close-up of the integrated LED light, which illuminates the work surface, and the nosepiece area. The LED enhances visibility in dimly lit conditions.

## 4. SETUP

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### 4.1 Battery Installation

1. Ensure the tool's trigger is locked or the power switch is in the OFF position.
2. Align the 18V Lithium Ion battery pack with the battery port on the tool's base.
3. Slide the battery pack into the port until it clicks securely into place.
4. To remove, press the battery release button and slide the battery pack out.

## 4.2 Loading Fasteners

1. Remove the battery pack from the tool.
2. Pull back the pusher assembly at the rear of the magazine until it locks.
3. Insert a strip of 18-Gauge brad nails (5/8 in. to 2-1/8 in. length) into the magazine slot. Ensure the nails are oriented correctly with the points facing forward.
4. Release the pusher assembly, allowing it to slide forward and hold the nails in place.
5. Verify that the nails are seated properly and move freely within the magazine.

## 5. OPERATING

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### 5.1 Powering On/Off

The tool is powered on when a charged battery is inserted and the trigger is engaged. There is no separate power button. Always remove the battery when not in use or when performing maintenance.

### 5.2 Selecting Firing Mode

Your brad nailer features a mode selector switch (refer to Figure 3) to choose between two firing modes:

- **Sequential Actuation Mode:** Requires the nosepiece to be depressed against the workpiece, followed by pulling the trigger to drive a single nail. This mode offers precise nail placement.
- **Contact Actuation Mode:** Allows for rapid firing. Hold the trigger, then depress the nosepiece against the workpiece to drive a nail. Each time the nosepiece is depressed, a nail will be driven.

Select the appropriate mode based on your application and safety requirements.

### 5.3 Adjusting Depth of Drive

The depth adjustment dial (refer to Figure 4) allows you to control how far the nail head sits below or flush with the material surface.

- Rotate the dial clockwise to increase the depth of drive (nails driven deeper).
- Rotate the dial counter-clockwise to decrease the depth of drive (nails driven shallower).

Test the depth setting on a scrap piece of material before fastening your final workpiece.

### 5.4 Driving Nails

1. Ensure the battery is charged and installed, and nails are loaded.
2. Select the desired firing mode and adjust the depth of drive.
3. Place the nosepiece firmly against the workpiece where the nail is to be driven.
4. Engage the trigger according to the selected firing mode.
5. After driving, lift the tool from the workpiece.

## 6. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your RIDGID brad nailer. Always remove the battery pack before performing any maintenance.

### 6.1 General Cleaning

- Keep the tool's air vents clear and free of debris to prevent overheating.

- Wipe the tool with a clean, dry cloth. Do not use solvents or harsh chemicals.
- Periodically inspect the magazine for dust or debris that could impede nail feeding.

### 6.2 Clearing Nail Jams

If a nail jam occurs, follow these steps:

1. **Remove the Battery:** This is crucial to prevent accidental firing.
2. **Open the Jam Clearing Latch:** Locate the jam clearing latch near the nosepiece (refer to Figure 4). Open it to expose the nail channel.
3. **Remove Jammed Nail:** Carefully remove any jammed nails or debris using pliers or a similar tool. Do not use excessive force.
4. **Close Latch:** Ensure the jam clearing latch is securely closed before re-inserting the battery and resuming operation.

### 6.3 Inspection of Wear Parts

Regularly inspect the nosepiece, driver blade, and seals for signs of wear or damage. Worn components can affect performance and safety. Refer to the warranty section for information on service for these parts.

## 7. TROUBLESHOOTING

If you encounter issues with your brad nailer, consult the following common troubleshooting steps:

| Problem                        | Possible Cause                                                                                                          | Solution                                                                                                              |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Tool does not fire             | Battery not charged or installed correctly; No nails in magazine; Nosepiece not fully depressed; Firing mode incorrect. | Charge and re-install battery; Load nails; Ensure nosepiece is firmly against workpiece; Check firing mode selection. |
| Nails not driven to full depth | Depth adjustment too shallow; Low battery charge; Incorrect nail length for material.                                   | Adjust depth setting deeper; Recharge battery; Ensure appropriate nail length is used.                                |
| Nail jam                       | Bent or incorrect nails; Debris in magazine/nosepiece; Worn driver blade.                                               | Clear jam as per Section 6.2; Use only recommended nails; Inspect driver blade for wear.                              |
| Tool operates intermittently   | Loose battery connection; Overheating; Internal fault.                                                                  | Re-seat battery; Allow tool to cool down; If problem persists, contact customer support.                              |

If these steps do not resolve the issue, please contact RIDGID customer support for further assistance.

## 8. SPECIFICATIONS

| Feature      | Specification |
|--------------|---------------|
| Model Number | R09890B       |
| Brand        | RIDGID        |

| Feature                     | Specification                                   |
|-----------------------------|-------------------------------------------------|
| Voltage                     | 18 Volts                                        |
| Battery Type                | Lithium Ion (1 required)                        |
| Nail Gauge                  | 18-Gauge                                        |
| Nail Length Capacity        | 5/8 in. to 2-1/8 in.                            |
| Estimated Nails Per Charge  | Up to 2,600 linear feet (application dependent) |
| Item Dimensions (L x W x H) | 12.4 x 5.2 x 14.2 inches                        |
| UPC                         | 648846065038                                    |

## 9. WARRANTY AND SUPPORT

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### 9.1 RIDGID Lifetime Service Agreement

The RIDGID HyperDrive Brushless 18V 2-1/8 in. Brad Nailer is backed by the RIDGID Lifetime Service Agreement. This agreement provides free seals, free pistons, and free driver blades for the life of the tool. Registration is typically required to activate this service agreement. Please refer to the official RIDGID website or product packaging for detailed registration instructions and terms and conditions.

### 9.2 Customer Support

For technical assistance, service, or warranty claims, please contact RIDGID customer support. Contact information can typically be found on the official RIDGID website or in the documentation included with your product.