RYOBI #PSBIW01B

RYOBI 18V ONE+ HP Brushless Cordless Compact 3/8-inch Impact Wrench User Manual

Model: #PSBIW01B

Product Overview

The RYOBI 18V ONE+ HP Brushless Cordless Compact 3/8-inch Impact Wrench is engineered for demanding tasks in confined spaces. This tool leverages 18V ONE+ HP Technology to deliver substantial torque in a lightweight and compact design, making it suitable for a wide range of applications.
Key features include:

- **Compact Design:** Measures only 5.4 inches in length, making it ideal for tight spots and overhead work.
- **Powerful Performance:** Brushless motor delivers up to 160 ft-lbs of torque for efficient fastening and loosening.
- **Optimized Impacting Mechanism:** Provides up to 3,900 Impacts Per Minute (IPM) for rapid fastener driving.
- **4-Mode Control:** Features High, Medium, Low, and an Auto Mode to prevent overtightening and uncontrolled removal.
- **Variable Speed Trigger:** Allows for precise control over fastening applications.
- **Integrated LED Worklight:** Illuminates the workspace for improved visibility.
- **ONE+ System Compatibility:** Part of the RYOBI ONE+ system, compatible with all RYOBI ONE+ 18V batteries.



Figure 1: Front view of the RYOBI 18V ONE+ HP Brushless Cordless Compact 3/8-inch Impact Wrench.

Safety Information

Always observe basic safety precautions when using power tools to reduce the risk of fire, electric shock, and personal injury. Read all instructions before operating this tool.

- **Work Area Safety:** Keep your 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.
- **Electrical Safety:** Power tool plugs must match the outlet. Never modify the plug in any way. Do not expose power tools to rain or wet conditions.
- **Personal Safety:** Always wear eye protection. Use hearing protection when operating power tools for extended periods. Dress properly; avoid loose clothing or jewelry. Secure long hair.
- **Tool Use and Care:** Do not force the power tool. Use the correct power tool for your application. Disconnect the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.
- **Battery Tool Use and Care:** Recharge only with the charger specified by the manufacturer. Use power tools only with specifically designated battery packs.

Components and Package Contents

This product is sold as a "Tool Only" unit. The package typically includes:

- RYOBI 18V ONE+ HP Brushless Cordless Compact 3/8-inch Impact Wrench (Model: #PSBIW01B)

Note: Battery and charger are sold separately. This tool is compatible with all RYOBI ONE+ 18V batteries.



Figure 2: Example of a RYOBI ONE+ 18V Battery and Charger Starter Kit (sold separately).

Setup

1. Battery Installation

1. Ensure the impact wrench is turned off and the trigger is not depressed.
2. Align the ribs on the battery pack with the grooves in the tool's battery port.
3. Slide the battery pack into the tool until it clicks securely into place.
4. To remove the battery, press the release latches on the sides of the battery pack and pull it out.

2. Attaching Sockets

1. Ensure the tool is off and the battery is removed for safety.
2. Push the desired 3/8-inch square drive socket firmly onto the anvil of the impact wrench until it locks into place.
3. To remove the socket, pull it directly off the anvil.

Operating Instructions

1. Powering On/Off

The tool is activated by depressing the variable speed trigger. Releasing the trigger turns the tool off.

2. Direction of Rotation (Forward/Reverse)

The direction of rotation is controlled by the forward/reverse selector switch located above the trigger.

- Push the selector to the left for forward (tightening) rotation.
- Push the selector to the right for reverse (loosening) rotation.
- Center the selector for the trigger lock position, which prevents accidental starting.

3. Mode Selection

This impact wrench features 4 modes for various applications. The mode selector button is typically located on the base of the tool or near the handle.

- **High Mode:** Provides maximum torque (up to 160 ft-lbs) and speed for heavy-duty applications.
- **Medium Mode:** Offers balanced torque and speed for general fastening tasks.
- **Low Mode:** Delivers reduced torque and speed for delicate applications or when precise control is needed.
- **Auto Mode:** Designed to prevent overtightening during fastening and uncontrolled removal during loosening. The tool will automatically adjust its power output.



Figure 3: Diagram illustrating key features including variable speed trigger and mode selection.

4. Variable Speed Trigger

The variable speed trigger allows you to control the speed of the tool. The further the trigger is depressed, the faster the tool will operate. This provides greater precision, especially when starting fasteners or working with delicate materials.

5. LED Worklight

The integrated LED worklight illuminates the work surface when the trigger is depressed, improving visibility in dimly lit areas.



Figure 4: The impact wrench in use, demonstrating its compact size and utility in tight spaces.

Maintenance

Regular maintenance ensures optimal performance and extends the life of your tool.

- **Cleaning:** Keep the tool's air vents clear and free of debris to prevent overheating. Use a clean, dry cloth to wipe down the exterior. Do not use solvents or harsh chemicals.
- **Storage:** Store the tool in a cool, dry place, away from direct sunlight and moisture. Remove the battery pack before storing

for extended periods.

- **Inspection:** Periodically inspect the tool for any signs of damage, loose screws, or worn parts. Do not use a damaged tool.

Troubleshooting

Problem	Possible Cause	Solution
Tool does not start.	Battery not installed correctly or discharged. Trigger lock engaged.	Ensure battery is fully seated and charged. Disengage trigger lock by centering the forward/reverse selector.
Reduced power or performance.	Low battery charge. Incorrect mode selected. Overheating.	Recharge battery. Select a higher power mode (e.g., High Mode). Allow tool to cool down if it feels hot.
Socket does not attach securely.	Incorrect socket size. Debris on anvil.	Ensure you are using a 3/8-inch square drive socket. Clean the anvil area.
Tool stops during operation.	Overload protection activated. Battery overheating.	Reduce load on the tool. Allow battery and tool to cool down.

Specifications

Attribute	Value
Model Number	#PSBIW01B
Voltage	18 Volts
Drive Size	3/8-inch Square
Max Torque	160 ft-lbs
Max Impacts Per Minute (IPM)	3,900 IPM
Max Revolutions Per Minute (RPM)	2,900 RPM
Length	5.4 Inches
Weight (Tool Only)	2 Pounds
Power Source	Battery Powered
Battery Type	Lithium Ion (RYOBI ONE+ 18V)
Motor Type	Brushless
UPC	033287190515

Warranty and Support

For warranty information, technical support, or to locate authorized service centers, please refer to the official RYOBI website or contact RYOBI customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.
RYOBI Official Website: www.ryobitools.com

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