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› Bahco 31 R US 8-inch Alligator Adjustable Wrench User Manual

Bahco 31 R US

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1. INTRODUCTION

This manual provides instructions for the safe and effective use of the Bahco 31 R US 8-inch Alligator Adjustable Wrench. This tool is designed for gripping and turning various fasteners and pipes.



Figure 1: Bahco 31 R US 8-inch Alligator Adjustable Wrench. This image displays the full wrench, highlighting its adjustable jaw on one end and the V-jaw (alligator jaw) on the other.

2. KEY FEATURES

- **Slim Head with Tapered Jaws:** Designed for improved accessibility in confined spaces.
- **Measurement Scale:** A scale on the head indicates fastener size for convenient adjustment.
- **V-Jaw (Alligator Jaw):** Features aggressively angled teeth for a secure grip on pipes and rounded fasteners.
- **Durable Construction:** Precision hardened and treated to withstand demanding environments.
- **Material and Finish:** Constructed from industrial-grade steel with a black phosphate finish.

3. SETUP AND PRE-USE INSPECTION

Before each use, perform a brief inspection of the wrench:

1. **Visual Check:** Examine the wrench for any signs of damage, cracks, or excessive wear. Do not use a damaged tool.
2. **Jaw Movement:** Ensure the adjustable jaw moves smoothly and freely along the screw mechanism.
3. **Cleanliness:** Remove any dirt, grease, or debris from the jaws and adjustment mechanism to ensure proper grip and function.

4. OPERATING INSTRUCTIONS

The Bahco 31 R US wrench offers two primary gripping functions:

4.1. Using the Adjustable Jaw

The adjustable jaw is suitable for hexagonal or square nuts and bolts.

1. **Adjust Jaw Opening:** Rotate the knurled screw to open or close the jaw until it fits snugly around the fastener. Use the measurement scale on the head as a guide.
2. **Secure Grip:** Ensure the jaws are parallel to the fastener faces and fully engaged to prevent slipping.
3. **Apply Force:** Apply turning force in the direction that tightens the movable jaw against the fixed jaw.



Figure 2: Adjustable Jaw in Use. This image shows a hand using the adjustable jaw of the wrench to turn a pipe fitting, demonstrating proper engagement.

4.2. Using the V-Jaw (Alligator Jaw)

The V-jaw, located on the handle end, is designed for gripping rounded pipes or fasteners that may be worn or damaged.

1. **Position:** Place the V-jaw around the pipe or rounded fastener.
2. **Engage Teeth:** Ensure the aggressively angled teeth bite into the surface for a secure, non-slip grip.
3. **Apply Force:** Apply turning force while maintaining firm pressure to keep the teeth engaged.



Figure 3: V-Jaw (Alligator Jaw) in Use. This image illustrates a hand utilizing the V-jaw end of the wrench to grip and turn a rounded pipe or fastener.

4.3. General Safety Guidelines

- Always wear appropriate personal protective equipment (PPE), such as safety glasses.
- Do not use the wrench as a hammer or for prying unless specifically designed for such secondary functions (see Figure 4 for an example of prying).
- Ensure the wrench is correctly sized for the fastener to prevent damage to the tool or the workpiece.
- Avoid extending the handle with a pipe or other leverage device, as this can overstress the tool and cause failure.



Figure 4: Wrench Used for Prying. This image shows the wrench being used to pry, demonstrating a potential secondary application.



Figure 5: Wrench on a Large Fastener. This image shows the wrench positioned on a large bolt or nut, illustrating its capacity for various fastener sizes.

5. CARE AND MAINTENANCE

Proper care extends the life and performance of your Bahco wrench:

- **Cleaning:** After each use, wipe the wrench clean of dirt, grease, and moisture. A clean cloth is usually sufficient.
- **Lubrication:** Periodically apply a light oil to the adjustable screw mechanism to ensure smooth operation and prevent corrosion.
- **Storage:** Store the wrench in a dry environment to prevent rust. Keep it away from corrosive chemicals.
- **Inspection:** Regularly inspect the jaws for wear or damage. Worn jaws can lead to slipping and potential injury.

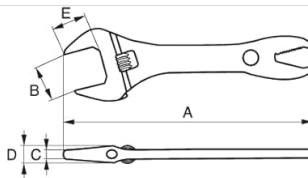
6. TROUBLESHOOTING

Most issues with an adjustable wrench relate to improper use or maintenance.

- **Wrench Slipping:**
 - Ensure the jaw is tightly adjusted to the fastener.
 - Confirm the turning force is applied in the correct direction (tightening the movable jaw).
 - Check for excessive wear on the jaws or fastener.
- **Stiff Adjustment:**
 - Clean the screw mechanism thoroughly.
 - Apply a light lubricant to the screw and movable jaw slide.

7. SPECIFICATIONS

Attribute	Value
Brand	Bahco
Model Number	31 R US
Size	8-inch
Material	Metal
Item Length	8 Inches
Item Weight	9.4 ounces
Head Style	C Shaped
Finish Type	Industrial Black Finish
Operation Mode	Mechanical



Product	A	A	B	C	D	E	
31	209 mm	9 in	32 mm	7,05 mm	12,8 mm	29 mm	270 g

Figure 6: Dimensional Diagram. This diagram provides key measurements (A, B, C, D, E) and weight for the Bahco 31 R US wrench.

8. WARRANTY AND SUPPORT

For specific warranty information, please refer to the documentation provided at the time of purchase or contact Bahco customer support directly. Support contact details can typically be found on the manufacturer's official website or through your retailer.