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## Kobalt 85710

# Kobalt 17-mm Flex Box-End Ratcheting Combination Wrench Instruction Manual

Model: 85710

## PRODUCT OVERVIEW

This manual provides essential information for the safe and effective use of your Kobalt 17-mm 72-Tooth 12-Point Flex Box-End Ratcheting Combination Wrench. Please read it thoroughly before operation.



Image: The Kobalt 17-mm 72-Tooth 12-Point Flex Box-End Ratcheting Combination Wrench. This image displays the full length of the wrench, highlighting its polished chrome finish, the 17mm size marking, the Kobalt brand logo, the blue stripe indicating it's a metric wrench, the flexible box-end with its ratcheting mechanism, and the open-end jaw.

The Kobalt 17-mm 72-Tooth 12-Point Flex Box-End Ratcheting Combination Wrench is designed for versatility and access in confined spaces. Its 12-point design allows engagement with various fastener types, including 6-point, 12-point, square, star, and even some rounded fasteners. The flexible box-end pivots 180 degrees, enhancing maneuverability. The 72-tooth ratcheting mechanism provides a fine 5-degree arc swing, ideal for tight areas. Constructed from durable chrome vanadium steel with a high-polish finish, this wrench is built for strength and longevity. A distinctive blue stripe helps identify it as a metric tool, and the size is clearly stamped for easy identification. This tool meets or exceeds ANSI specifications.

## SAFETY INFORMATION

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Always observe the following safety precautions when using hand tools:

- Wear appropriate personal protective equipment (PPE), such as safety glasses, to protect against flying debris.
- Ensure the wrench size matches the fastener size to prevent slippage and damage to the fastener or tool.
- Do not use extension handles or "cheater bars" on the wrench, as this can overload the tool and cause breakage or injury.
- Pull on the wrench rather than push, to avoid injury if the fastener suddenly breaks loose.
- Keep the wrench clean and free of grease or oil to maintain a secure grip.
- Inspect the wrench for any signs of damage or wear before each use. Do not use damaged tools.

## SETUP

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The Kobalt Flex Box-End Ratcheting Combination Wrench requires no assembly or complex setup. It is ready for immediate use upon removal from its packaging.

1. Unpack the wrench from its protective packaging.
2. Inspect the wrench for any shipping damage or manufacturing defects.
3. Familiarize yourself with the wrench's features, including the flexible box-end and the open-end.

## OPERATING INSTRUCTIONS

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This wrench features both an open-end and a flexible ratcheting box-end for versatile application.

### Using the Open-End

- Select the correct 17-mm open-end for the fastener.
- Position the open-end fully onto the fastener head, ensuring a snug fit.
- Apply steady, even pressure to turn the fastener. Reposition the wrench as needed.

### Using the Flexible Ratcheting Box-End

- Ensure the 12-point box-end is correctly sized for the 17-mm fastener.
- Place the box-end over the fastener. The 12-point design allows for multiple engagement angles.
- Adjust the angle of the flexible head (up to 180 degrees) to gain optimal access in tight or obstructed areas.
- Apply turning force. The 72-tooth ratcheting mechanism allows for continuous turning without removing the wrench from the fastener, even with a small 5-degree arc swing.
- To reverse the ratcheting direction, simply flip the wrench over.

## MAINTENANCE

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Proper maintenance will extend the life and performance of your wrench.

- **Cleaning:** After each use, wipe the wrench clean with a dry cloth to remove dirt, grease, and debris. For stubborn grime, a mild degreaser can be used, followed by thorough drying.
- **Lubrication:** The ratcheting mechanism is generally sealed and does not require user lubrication. Avoid introducing lubricants into the mechanism unless specifically instructed by the manufacturer, as this can attract dirt.
- **Storage:** Store the wrench in a dry environment to prevent rust. A tool roll, drawer, or pegboard is ideal.
- **Inspection:** Regularly inspect the wrench for signs of wear, cracks, bends, or damage to the ratcheting mechanism.

Discontinue use if any damage is found.

## TROUBLESHOOTING

Most issues with a combination wrench are related to improper use or wear.

Problem	Possible Cause	Solution
Wrench slips on fastener	Incorrect wrench size; Worn fastener head; Worn wrench jaws/points; Grease/oil on wrench or fastener.	Ensure correct 17-mm size; Replace worn fastener; Replace worn wrench; Clean wrench and fastener.
Ratcheting mechanism not engaging or slipping	Internal wear or damage to gears/pawls; Excessive dirt/debris in mechanism.	Discontinue use; The mechanism is not user-serviceable. Consider replacement.
Wrench head (flex) is stiff or loose	Pivot point needs cleaning; Wear in the pivot joint.	Clean the pivot area; If wear is significant, consider replacement.

For issues not listed here, or if solutions do not resolve the problem, contact Kobalt customer support.

## SPECIFICATIONS

Feature	Detail
Model Number	85710
Size	17-mm
Tooth Count (Ratcheting)	72-Tooth
Box-End Design	12-Point, Flexible (180° rotation)
Arc Swing	5°
Material	Chrome Vanadium Steel
Finish	High-Polish
Identification	Blue color stripe for metric identification, hard-stamped size callout
Compliance	Meets or exceeds ANSI specifications
Item Weight	8 ounces (0.5 Pounds)
Product Dimensions	0.41 x 2.09 x 9 inches

## WARRANTY AND SUPPORT

Kobalt tools are known for their durability and often come with a robust warranty. While specific warranty details may vary, many Kobalt hand tools are backed by a lifetime hassle-free guarantee.

- **Warranty Information:** For the most current and detailed warranty information, please refer to the packaging of your specific product or visit the official Kobalt website. Keep your proof of purchase.
- **Customer Support:** If you have questions about your Kobalt wrench, require technical assistance, or need to

initiate a warranty claim, please contact Kobalt customer service.

- **Online Resources:** Visit [www.kobalttools.com](http://www.kobalttools.com) for product information, FAQs, and support contact details.

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