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> [Kunchy KC-558-958 Tire Changer and Wheel Balancer Combo Instruction Manual](#)

## Kunchy KC-558-958

# Kunchy KC-558-958 Tire Changer and Wheel Balancer Combo Instruction Manual

Model: KC-558-958

## 1. INTRODUCTION

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This manual provides essential instructions for the safe and efficient operation, installation, and maintenance of your Kunchy KC-558-958 Tire Changer and Wheel Balancer Combo. Please read this manual thoroughly before operating the equipment to ensure proper usage and to prevent damage or injury.

## 2. SAFETY INFORMATION

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Always prioritize safety when operating machinery. Failure to follow safety guidelines can result in serious injury or equipment damage.

- Read and understand all instructions before use.
- Wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and sturdy footwear.
- Ensure the equipment is installed on a level, stable surface.
- Keep the work area clean and well-lit.
- Do not operate the machine if any parts are damaged or missing.
- Disconnect power before performing any maintenance or adjustments.
- Keep hands and clothing clear of moving parts.
- Only trained personnel should operate this equipment.
- Ensure proper ventilation when working with tires and lubricants.

## 3. PACKAGE CONTENTS

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Verify that all components are present upon unpacking:

- Kunchy KC-558 Tire Changer Machine
- Kunchy KC-958 Wheel Balancer Machine
- Auxiliary Assist Arm (for Tire Changer)
- Bead Blast System (integrated)

- Standard accessories for tire changing and wheel balancing (e.g., tire levers, rim protectors, calibration weights, measuring tools).



**Figure 3.1:** Overview of the Kunchy KC-558 Tire Changer and KC-958 Wheel Balancer Combo, including various accessories such as tire levers, rim protectors, and calibration tools.

## 4. SETUP AND INSTALLATION

Proper setup is crucial for safe and effective operation. Refer to the detailed assembly instructions provided in the separate assembly guide for specific steps.

### 4.1 Site Preparation

- Ensure the installation area is level, clean, and has sufficient space for operation and maintenance.
- Verify that the power supply meets the specified requirements (110 V, 60 Hz, 1 Ph).
- Ensure access to a compressed air supply capable of providing 116-145 PSI (8-10 bar).

## 4.2 Assembly

- Unpack all components carefully.
- Assemble the tire changer and wheel balancer according to the provided diagrams and instructions.
- Connect the air supply to the tire changer.
- Connect both machines to the appropriate electrical outlets.

## 4.3 Initial Checks

- Inspect all connections for security.
- Check for any visible damage.
- Ensure all safety guards are in place.

## 5. OPERATING INSTRUCTIONS

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### 5.1 Tire Changer Operation (Model KC-558)

The Kunchy KC-558 Tire Changer is designed for efficient tire removal and installation. It features automatic operation and pedal controls.

# AUTOMATIC OPERATION

It can make your job easier and convenient to use



Figure 5.1: The KC-558 Tire Changer with details on its automatic rotating arm and foot pedal controls for operation.

1. **Position the Wheel:** Place the wheel onto the turntable.
2. **Clamp the Rim:** Use the foot pedals to activate the clamping jaws. Ensure the rim is securely clamped (external clamping: 12"-20", internal clamping: 12"-24").
3. **Break the Bead:** Position the bead breaker shovel against the tire sidewall and use the foot pedal to activate the bead breaker. Repeat for both sides of the tire.
4. **Lubricate:** Apply tire lubricant to the tire beads and rim edges.
5. **Mount/Demount Head Positioning:** Swing the mount/demount head into position, ensuring it clears the rim. Lock it in place.
6. **Demounting Tire:**
  - Insert the tire lever between the tire bead and the mount head.
  - Use the foot pedal to rotate the turntable, allowing the tire bead to lift over the mount head.
  - Repeat for the second bead.

7. **Mounting Tire:**

- Place the bottom bead onto the rim, under the mount head.
- Use the foot pedal to rotate the turntable, guiding the bead onto the rim.
- Repeat for the top bead, potentially using the assist arm for low-profile or stiff tires.

8. **Inflate Tire:** Inflate the tire to the manufacturer's recommended pressure. The integrated bead blast system can assist with seating stubborn beads.

9. **Remove Wheel:** Release the clamping jaws using the foot pedal and remove the wheel.

# DISASSEMBLE VARIOUS TYPES OF TIRES

Maximum Wheel

Width:13"



Rim diameter: Maximum Tire Diameter

5" - 12"

Width:41"

**Figure 5.2:** Illustrates the maximum wheel width (12.5 inches) and maximum tire diameter (41 inches) supported by the tire changer.

# PRODUCT SPECIFICATION

Power Supply Voltage

110 V, 60 Hz, 1 Ph

Motor

2.0 HP

Working Pressure

116 PSI - 145 PSI  
( 8 bar - 10 bar )

External Rim Clamping

12" - 22"  
( 305 mm - 559 mm )

Internal Rim Clamping

13" - 24"  
( 330 mm - 609 mm )

Max. Wheel Width

13" ( 330 mm )

Max. Wheel Diameter

41" ( 1040 mm )

Turntable Rotating  
Torque

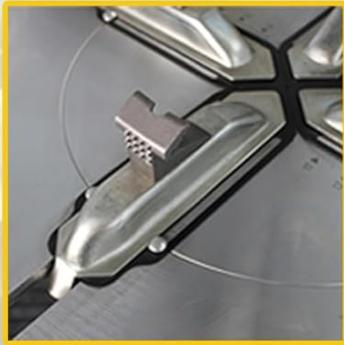
885 ft/lbs

**Figure 5.3:** Close-up views of key components of the KC-558 Tire Changer, including the robust 24-inch turntable, dual assist arms for easier tire handling, the oil-water separator for air quality, durable aluminum alloy foot pedals, the white steel mount/demount head, and the strong bead breaker mechanism.

## 5.2 Wheel Balancer Operation (Model KC-958)

The Kunchy KC-958 Wheel Balancer ensures accurate wheel balancing for smooth vehicle operation.

# DETAILED DISPLAY



**24-inch Thickened Plate**



**Dual Assist Arms**



**High-quality Oil-water Separator**



**Aluminum Alloy Foot Pedals**



**White Steel Mount Demount Head**



**Great Bead Breaker Structure**

**Figure 5.4:** The KC-958 Wheel Balancer highlighting its 36mm rotating shaft, user-friendly display interface, and the self-calibration function at 12 o'clock.

1. **Mount the Wheel:** Securely mount the wheel onto the 36mm rotating shaft of the balancer. Use appropriate cones and locking mechanisms.
2. **Input Wheel Data:** Use the control panel to input the wheel's rim diameter (10"-24"), rim width (1.5"-20"), and distance from the machine. The friendly display guides this process.
3. **Start Balancing Cycle:** Close the wheel guard (if applicable) and press the START button. The machine will spin the wheel and measure imbalances.
4. **Read Results:** The display will show the required weight and its location on the inner and outer sides of the rim.
5. **Apply Weights:** Attach the appropriate balance weights to the indicated positions on the rim. The self-calibration feature can assist with precise placement.
6. **Re-check Balance:** Spin the wheel again to confirm proper balance. Repeat steps 4-5 if necessary until the display shows zero or acceptable imbalance.
7. **Remove Wheel:** Once balanced, remove the wheel from the shaft.

# DETAILED DISPLAY



36 mm Rotating Shaft



Friendly Display



Self-calibration  
at 12 o'clock



Figure 5.5: Close-up of the KC-958 Wheel Balancer's friendly display panel, the large capacity top tray for tools and weights, and designated areas for accessory placement.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your equipment.

- **Daily:** Clean the machine surfaces, especially the turntable and shaft, to remove tire debris and lubricant residue.
- **Weekly:** Check air lines and connections for leaks. Inspect all moving parts for wear or damage.
- **Monthly:** Lubricate pivot points and moving components as recommended in the detailed maintenance schedule (refer to separate service manual).
- **Oil-Water Separator:** Regularly drain accumulated water from the oil-water separator on the tire changer to maintain air quality.
- **Calibration:** Periodically calibrate the wheel balancer according to the instructions in the separate calibration guide to ensure accuracy.
- **Power Disconnection:** Always disconnect power before performing any cleaning or maintenance.

## 7. TROUBLESHOOTING

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This section addresses common issues you might encounter. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
Tire Changer not clamping/unclamping	Low air pressure, air leak, pedal malfunction.	Check air supply and pressure. Inspect air lines. Check pedal connections.
Turntable not rotating	Power issue, motor fault, pedal malfunction.	Verify power connection. Check emergency stop button. Inspect foot pedal.
Wheel Balancer shows inaccurate readings	Incorrect wheel data input, machine out of calibration, dirty shaft.	Re-enter wheel data carefully. Perform calibration procedure. Clean the shaft and cones.
Excessive vibration during balancing	Wheel not mounted securely, damaged wheel/tire, machine not level.	Ensure wheel is tightly secured. Inspect wheel/tire for damage. Verify machine is on a level surface.

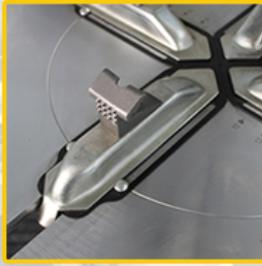
## 8. SPECIFICATIONS

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### 8.1 Kunchy KC-558 Tire Changer Specifications

Feature	Specification
Power Supply Voltage	110 V, 60 Hz, 1 Ph
Motor	2.0 HP
Working Pressure	116 PSI - 145 PSI (8 bar - 10 bar)
External Rim Clamping	12" - 20" (305 mm - 508 mm)
Internal Rim Clamping	12" - 24" (305 mm - 609 mm)
Max. Wheel Width	12.5" (317.5 mm)
Max. Wheel Diameter	41" (1040 mm)
Turntable Rotating Torque	885 ft/lbs

# DETAILED DISPLAY



**24-inch Thickened Plate**



**Dual Assist Arms**



**High-quality Oil-water Separator**



**Aluminum Alloy Foot Pedals**



**White Steel Mount Demount Head**



**Great Bead Breaker Structure**

Figure 8.1: Detailed specifications for the Kunchy KC-558 Tire Changer, including power, motor, pressure, clamping ranges, and dimensions.

## 8.2 Kunchy KC-958 Wheel Balancer Specifications

Feature	Specification
Power Supply Voltage	110 V, 60 Hz, 1 Ph
Motor	0.34 HP (0.25 kW)
Rim Diameter Capacity	10" - 24" (254 mm - 610 mm)
Rim Width	1.5" - 20" (38 mm - 508 mm)
Max. Wheel Diameter	39 3/8" (1000 mm)
Max. Wheel Weight	154.32 lbs (70 kg)
Shaft Size	36 mm
Max. Shaft Weight	176.37 lbs (80 kg)
Balancing Speed	180 RPM

# DETAILED DISPLAY



Friendly Display



Large capacity  
top tray



Placement of  
accessories

Figure 8.2: Detailed specifications for the Kunchy KC-958 Wheel Balancer, including power, motor, rim capacity, and weight limits.

## 9. WARRANTY AND SUPPORT

This Kunchy Tire Changer and Wheel Balancer Combo comes with a **1-Year Warranty** from the date of purchase, covering manufacturing defects. For warranty claims, technical support, or replacement parts, please contact your authorized Kunchy dealer or customer service.

Please retain your proof of purchase for warranty validation.

