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Mayflower Products 560 / 680

Mayflower 1.5 HP Tire Changer & Wheel Balancer Combo

Model: 560 / 680 | Brand: Mayflower Products

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1. PRODUCT OVERVIEW

The Mayflower 1.5 HP Tire Changer and Wheel Balancer Combo is a comprehensive solution for tire service. This robust system includes a 560 Semi-Automatic Tire Changer and a 680 Electronic Wheel Balancer, designed for efficient and accurate tire mounting, demounting, and balancing. It is suitable for a wide range of tire sizes and types, providing essential tools for professional and enthusiast use.



Figure 1: Mayflower 1.5 HP Tire Changer and Wheel Balancer Combo.

2. KEY FEATURES

560 Semi-Automatic Tire Changer Features:

- **Rim Clamping:** Outside 10"-18", Inside 12"-21".
- **Motor:** Powerful 1.5 HP motor for efficient operation.
- **Bird Head Design:** Equipped with a protector; claws have a lifetime warranty.
- **Maximum Tire Diameter:** 35" (900mm).
- **Maximum Wheel Width:** 12".
- **Bead Break Force:** 5600 lbs. pneumatic piston.
- **Operating Pressure:** 120-145 psi (8-10 bar).
- **Voltage:** 110V only.
- **Included Accessories:** 4 clamp protectors and steel mount head.
- **Finish:** Durable Blue Powder Coat Finish.



Figure 2: Mayflower 560 Semi-Automatic Tire Changer with included accessories.

680 Electronic Wheel Balancer Features:

- **Rim Diameter:** 10" - 24".
- **Rim Width:** 1.5" - 20".
- **Max. Wheel Diameter:** 44" (1117mm).
- **Max. Wheel Weight:** 155 lbs.
- **Measurements:** Pre-set to American standard measurements.
- **Cycle Time:** 6-9 seconds.
- **Balancing Accuracy:** -1g to +1g.
- **Noise Level:** <70 dB.
- **Power Supply:** 110V.
- **Max. Power:** 180-250W.
- **Operating Modes:** Standard Dynamic Mode, Static Mode, ALU 1-3 Mode, Motorcycle Mode.
- **Included Accessories:** 3 centering cones and Quick Release Wing Nut.
- **Finish:** Durable Blue Powder Coat Finish.



Figure 3: Mayflower 680 Electronic Wheel Balancer with included accessories.

3. SETUP AND INSTALLATION

3.1 Unpacking and Inspection

Carefully unpack all components. Inspect for any shipping damage. Report any damage to the carrier and supplier immediately. Ensure all listed accessories are present.

3.2 Placement

Position the tire changer and wheel balancer on a level, stable surface capable of supporting their weight and the weight of tires/wheels. Ensure adequate space around the machines for safe operation and maintenance.

3.3 Power and Air Connections

Connect the machines to a dedicated 110V power supply. For the tire changer, connect to an air compressor capable of providing 120-145 psi (8-10 bar) operating pressure. Ensure all connections are secure and meet local electrical and safety codes.



Figure 4: Side view of the tire changer illustrating air connections and pressure gauge.

3.4 Initial Checks

Before first use, verify all moving parts operate smoothly. Check for any loose fasteners. Familiarize yourself with all controls and safety features.

4. OPERATING INSTRUCTIONS

4.1 Tire Changer Operation

The 560 Semi-Automatic Tire Changer is designed for efficient mounting and demounting of tires.

1. **Positioning the Wheel:** Place the wheel on the turntable, ensuring it is centered and securely clamped. The rim clamping mechanism can adjust for outside 10"-18" and inside 12"-21" rims.
2. **Bead Breaking:** Use the pneumatic bead breaker to separate the tire bead from the rim. The machine provides a powerful 5600 lbs. of force.
3. **Mounting/Demounting:** Utilize the bird head and tire lever to carefully mount or demount the tire. The bird head is designed with a protector to prevent rim damage.
4. **Inflation:** Inflate the tire to the manufacturer's recommended pressure.



Figure 5: Close-up view of the rim clamping mechanism on the tire changer.



Figure 6: Close-up view of the bead breaker on the tire changer.

4.2 Wheel Balancer Operation

The 680 Electronic Wheel Balancer ensures precise wheel balancing.

1. **Mounting the Wheel:** Securely mount the wheel onto the balancer's shaft using the appropriate centering cone and quick release wing nut.
2. **Inputting Parameters:** Enter the rim diameter (10"-24"), rim width (1.5"-20"), and distance from the machine to the rim using the control panel.
3. **Spin Cycle:** Initiate the spin cycle. The machine will automatically measure the imbalance and display the required weight and its location.
4. **Weight Placement:** Apply the correct amount of balance weights to the indicated positions on the inner and outer sides of the rim.
5. **Re-check:** Perform another spin cycle to confirm the wheel is balanced to within -1g to +1g accuracy.

Note: No official seller videos for operation were available for embedding based on the provided data. Please refer to the detailed instructions in the full manual for comprehensive operational guidance.

5. MAINTENANCE

Regular maintenance is crucial for the longevity and optimal performance of your Mayflower equipment.

- **Daily Cleaning:** Clean the machines daily to remove tire dust, dirt, and debris.
- **Lubrication:** Periodically lubricate moving parts as indicated in the full product manual to ensure smooth operation.
- **Air System Check (Tire Changer):** Regularly drain moisture from the air compressor and check air lines for leaks. Ensure the air filter/regulator is clean and functioning correctly.
- **Calibration (Wheel Balancer):** The wheel balancer may require periodic calibration to maintain accuracy. Refer to the full manual for calibration procedures.
- **Inspection:** Routinely inspect all cables, hoses, and mechanical components for wear or damage. Replace worn parts promptly.

6. TROUBLESHOOTING

This section provides general guidance for common issues. For detailed troubleshooting, consult the comprehensive product manual or contact customer support.

Common Issues:

- **Machine Not Powering On:** Check power connections, circuit breaker, and ensure the power switch is in the 'ON' position.
- **Tire Changer Not Clamping/Bead Breaking:** Verify adequate air pressure supply (120-145 psi) and check for air leaks in hoses or fittings.
- **Wheel Balancer Inaccurate Readings:** Ensure the wheel is mounted correctly and securely. Check if the machine requires calibration. Verify correct input parameters (rim size, width, distance).
- **Excessive Noise/Vibration:** Inspect for loose components, worn bearings, or obstructions. Disconnect power before inspection.

If issues persist after basic troubleshooting, do not attempt complex repairs. Contact qualified service personnel or Mayflower Products customer support.

7. TECHNICAL SPECIFICATIONS

Mayflower 560 Tire Changer & 680 Wheel Balancer Combo

Attribute	Value
Brand	Mayflower Products
Model Number	560 / 680
Manufacturer	Best Technology
Voltage	110 Volts
Tire Changer - Rim Clamping (Outside)	10" - 18"
Tire Changer - Rim Clamping (Inside)	12" - 21"
Tire Changer - Motor Horsepower	1.5 HP
Tire Changer - Max. Tire Diameter	35" (900mm)
Tire Changer - Max. Wheel Width	12"
Tire Changer - Bead Break Force	5600 lbs. pneumatic piston
Tire Changer - Operating Pressure	120-145 psi (8-10 bar)
Wheel Balancer - Rim Diameter	10" - 24"
Wheel Balancer - Rim Width	1.5" - 20"
Wheel Balancer - Max. Wheel Diameter	44" (1117mm)
Wheel Balancer - Max. Wheel Weight	155 lbs
Wheel Balancer - Cycle Time	6-9 seconds
Wheel Balancer - Balancing Accuracy	-1g to +1g
Wheel Balancer - Noise	<70 dB
Wheel Balancer - Max. Power	180-250W
Shipping Weight	500 lbs. (Tire Changer)

8. WARRANTY AND SUPPORT

8.1 Product Warranty

The Mayflower 1.5 HP Tire Changer and Wheel Balancer Combo comes with a **1 Year FULL warranty**. This warranty covers manufacturing defects and ensures the product meets quality standards. Additionally, the bird head claws on the tire changer are covered by a lifetime warranty.

Extended protection plans may be available for purchase:

- 2-Year Protection Plan
- 3-Year Protection Plan

- Complete Protect (monthly plan covering eligible purchases)

For specific terms and conditions of the warranty and protection plans, please refer to your purchase documentation or contact Mayflower Products directly.

8.2 Customer Support

For technical assistance, parts, or service inquiries, please contact Mayflower Products customer support. Ensure you have your model number (560 / 680) and purchase date available when contacting support.

You can visit the official Mayflower Products Store on Amazon for more information: [Mayflower Products Store](#)