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Master Flow MF-1050

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1. INTRODUCTION

The Master Flow MF-1050 Tsunami Portable 12V Air Compressor is designed for efficient and convenient tire inflation. This robust unit is suitable for a wide range of vehicles, including trucks, SUVs, 4x4s, RVs, and passenger cars, as well as various inflatable household items. Its direct-drive motor ensures efficient airflow and faster inflation times. This manual provides essential information for the safe and effective use of your air compressor.

2. SAFETY WARNINGS

- **Read All Instructions:** Before operating the air compressor, read and understand all safety warnings and instructions in this manual.
- **Electrical Safety:** Connect the compressor directly to a 12-volt vehicle battery using the provided alligator clips. Do not use with cigarette lighter sockets, as this can cause overheating and damage. Ensure connections are secure before operation.
- **Over-inflation Hazard:** Never exceed the maximum recommended tire pressure. Over-inflating tires can cause them to burst, leading to serious injury. Always check the tire manufacturer's recommended PSI.
- **Overheating:** The compressor may become hot during prolonged use. Allow it to cool down between uses to prevent damage. Do not operate for more than 20 minutes continuously.
- **Children and Pets:** Keep children and pets away from the operating compressor and inflated items.
- **Ventilation:** Operate the compressor in a well-ventilated area.
- **Eye Protection:** Always wear appropriate eye protection when operating the air compressor.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- Master Flow MF-1050 Tsunami Portable Air Compressor

- 16 ft Self-coiling Air Hose with Quick Connect Type M Automotive Air Fitting
- 10 ft Heavy Duty Power Cord with Alligator Clips
- Carrying Bag
- Air Filter
- Needle Adapters (for various inflatables)
- Extra Fuse



Figure 3.1: Master Flow MF-1050 Tsunami Portable Air Compressor and accessories in its carrying bag.

4. PRODUCT SPECIFICATIONS

Feature	Specification
Brand	Master Flow
Model Name	MF-1050 Tsunami
Voltage	12 Volts
Power Source	Vehicle Battery Powered
Maximum PSI	150 PSI
Motor Horsepower	2.5 horsepower
Hose Length	16 Feet
Cord Length	10 Feet
Item Weight	10 Pounds
Product Dimensions	11.4 x 7.9 x 9.5 inches
Special Feature	Pressure Detection

5. SETUP

- 1. Position the Compressor:** Place the air compressor on a stable, flat surface near the tire to be inflated. Ensure it is not in direct contact with water or excessive dirt.
- 2. Connect to Vehicle Battery:**
 - Open your vehicle's hood to access the battery.
 - Connect the red (+) alligator clip from the compressor's power cord to the positive (+) terminal of your vehicle's 12-volt battery.
 - Connect the black (-) alligator clip to the negative (-) terminal of the battery.
 - Ensure connections are firm and secure.



Figure 5.1: Proper connection of alligator clips to the vehicle battery.

3. **Attach Air Hose:** Connect the quick-connect fitting of the 16 ft self-coiling air hose to the air outlet on the compressor. Twist to secure.
4. **Prepare Tire Valve:** Remove the valve cap from the tire you intend to inflate.
5. **Connect to Tire:** Screw the brass inflator nozzle at the end of the air hose onto the tire's valve stem until it is finger-tight.



Figure 5.2: Connecting the air hose to the tire valve.

6. OPERATING INSTRUCTIONS

1. **Start Inflation:** Once all connections are secure, flip the power switch on the compressor to the 'ON' position. The compressor will begin to inflate the tire.
2. **Monitor Pressure:** Observe the pressure gauge on the compressor to monitor the tire's PSI. Inflate the tire to the manufacturer's recommended pressure.
3. **Stop Inflation:** Once the desired pressure is reached, flip the power switch to the 'OFF' position.
4. **Disconnect:** Unscrew the brass inflator nozzle from the tire valve stem and replace the valve cap. Disconnect the air hose from the compressor. Finally, disconnect the alligator clips from the vehicle battery (black first, then red).
5. **Using Adapters:** For inflating items like sports balls or small inflatables, select the appropriate needle adapter from the included kit. Screw it onto the brass inflator nozzle before connecting to the item.



Figure 6.1: Operating the Master Flow MF-1050 air compressor to inflate a tire.

7. MAINTENANCE

- **Air Filter:** Regularly inspect the air filter for dirt and debris. Clean or replace the air filter as needed to ensure optimal performance and prevent damage to the compressor.
- **Storage:** After each use, allow the compressor to cool down completely. Store the compressor and all accessories neatly in the provided carrying bag in a dry, cool place, away from direct sunlight and moisture.
- **Power Cord and Hose:** Inspect the power cord and air hose for any signs of wear, cuts, or damage before and after each use. Do not use if damaged.

8. TROUBLESHOOTING

- **Compressor Not Turning On:**
 - Check battery connections: Ensure alligator clips are securely attached to the correct battery

terminals.

- Check vehicle battery: Verify that your vehicle's battery has sufficient charge.
- Check fuse: Inspect the inline fuse on the power cord. Replace if blown with the included spare fuse (or a fuse of the same rating).

- **Slow Inflation or Low Pressure:**

- Check air hose connections: Ensure the air hose is securely connected to both the compressor and the tire valve.
- Inspect air filter: A clogged air filter can restrict airflow. Clean or replace it.
- Check for leaks: Listen for hissing sounds indicating air leaks from connections or the tire valve.

- **Compressor Overheats:**

- Allow the compressor to cool down for at least 10-15 minutes before resuming operation.
- Avoid continuous operation beyond the recommended 20-minute runtime.

9. WARRANTY AND CUSTOMER SUPPORT

For warranty information or customer support regarding your Master Flow MF-1050 Tsunami Portable 12V Air Compressor, please refer to the documentation included with your purchase or contact Master Flow customer service directly. Keep your purchase receipt as proof of purchase.