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AstroAI L7

AstroAI L7 Portable Tire Inflator User Manual

Model: L7

1. INTRODUCTION

Thank you for choosing the AstroAI L7 Portable Tire Inflator. This device is designed for convenient and accurate inflation of various tires and inflatables. It features a digital display, preset pressure function, and automatic shut-off for safe and efficient use. Please read this manual thoroughly before operation to ensure proper use and to maximize the product's lifespan.

The AstroAI L7 includes updated sensor technology for precise pressure readings, offering a valid data rate higher than 80%. It supports multiple inflation modes and pressure units, making it versatile for cars, motorcycles, bicycles, and balls. While primarily powered via a 12V car outlet, its compact design and efficient motor ensure reliable performance.

LONG-LASTING BATTERY



Figure 1: AstroAI L7 Portable Tire Inflator highlighting its 4000mAh battery capacity and multi-purpose inflation capacity. It can refill 8 car tires (195/65R15), 18 motorcycle tires, 30 bicycle tires, or 88 balls on a single charge.

POCKET-SIZED TIRE INFLATOR

Hassle-Free Storage



5.27 *2.59 *1.96in



0.96lb

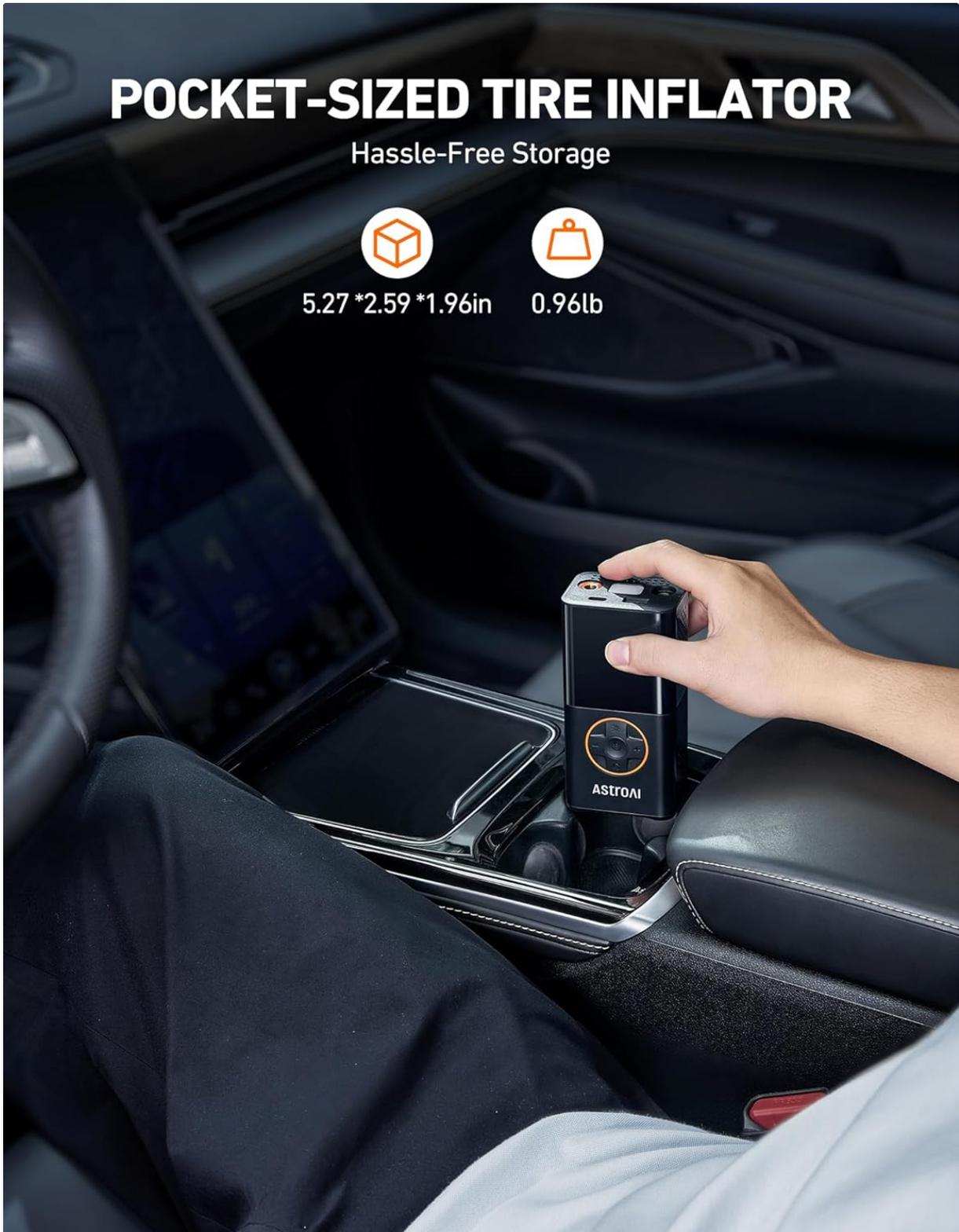


Figure 2: The compact design of the AstroAI L7, measuring 5.27" x 2.59" x 1.96" and weighing 0.96 lb, allows for hassle-free storage.

2. SAFETY INSTRUCTIONS

To ensure safe operation and prevent injury or damage, please observe the following safety guidelines:

- Always operate the inflator in a well-ventilated area.
- Do not leave the inflator unattended while in use.
- Keep out of reach of children.
- Avoid prolonged continuous operation. The maximum continuous use time is 15 minutes to prevent motor overheating. Allow the device to cool down for at least 10 minutes after 15 minutes of continuous use.

- Do not expose the inflator to water or rain. Store it in a dry, dust-free environment.
- Avoid violent collisions or dropping the device.
- Ensure the power source matches the device's requirements (12V for car outlet). The maximum current of the fuse is 15A.
- Do not attempt to inflate objects beyond their recommended pressure limits.
- Always check the tire pressure with a reliable gauge after inflation.
- Disconnect the power when not in use or before cleaning.

3. PRODUCT COMPONENTS

The AstroAI L7 Portable Tire Inflator includes the following main components:

- Digital Display Screen
- Control Buttons (Power, Mode, +, -)
- Air Hose with Screw-on Connector
- 12V DC Power Cable (for car outlet)
- Various Nozzle Attachments (for different inflatables)
- LED Lights

UPGRADED METAL STRUCTURE

15-Min Continuous Working Time



Figure 3: Internal view of the AstroAI L7, showcasing its upgraded metal structure designed for durability and efficient heat dissipation during its 15-minute continuous working time.

INTEGRATED STORAGE

Frequently Used Accessory Storage



Figure 4: The AstroAI L7 features integrated storage for its air hose, power cable, and frequently used accessory nozzles, ensuring all components are neatly organized and readily accessible.

4. SETUP

1. **Connect Power:** Start your vehicle's engine. Insert the cigarette lighter plug of the inflator's power cable into your car's 12V outlet.
2. **Attach Air Hose:** Connect the air hose to the inflator. Select the appropriate nozzle attachment if needed for your inflatable item (e.g., bicycle valve, ball needle).
3. **Connect to Tire/Inflatable:** Screw the air hose connector firmly onto the tire valve stem. Ensure a tight seal to prevent air leakage.

ULTRA-LONG POWER CORD

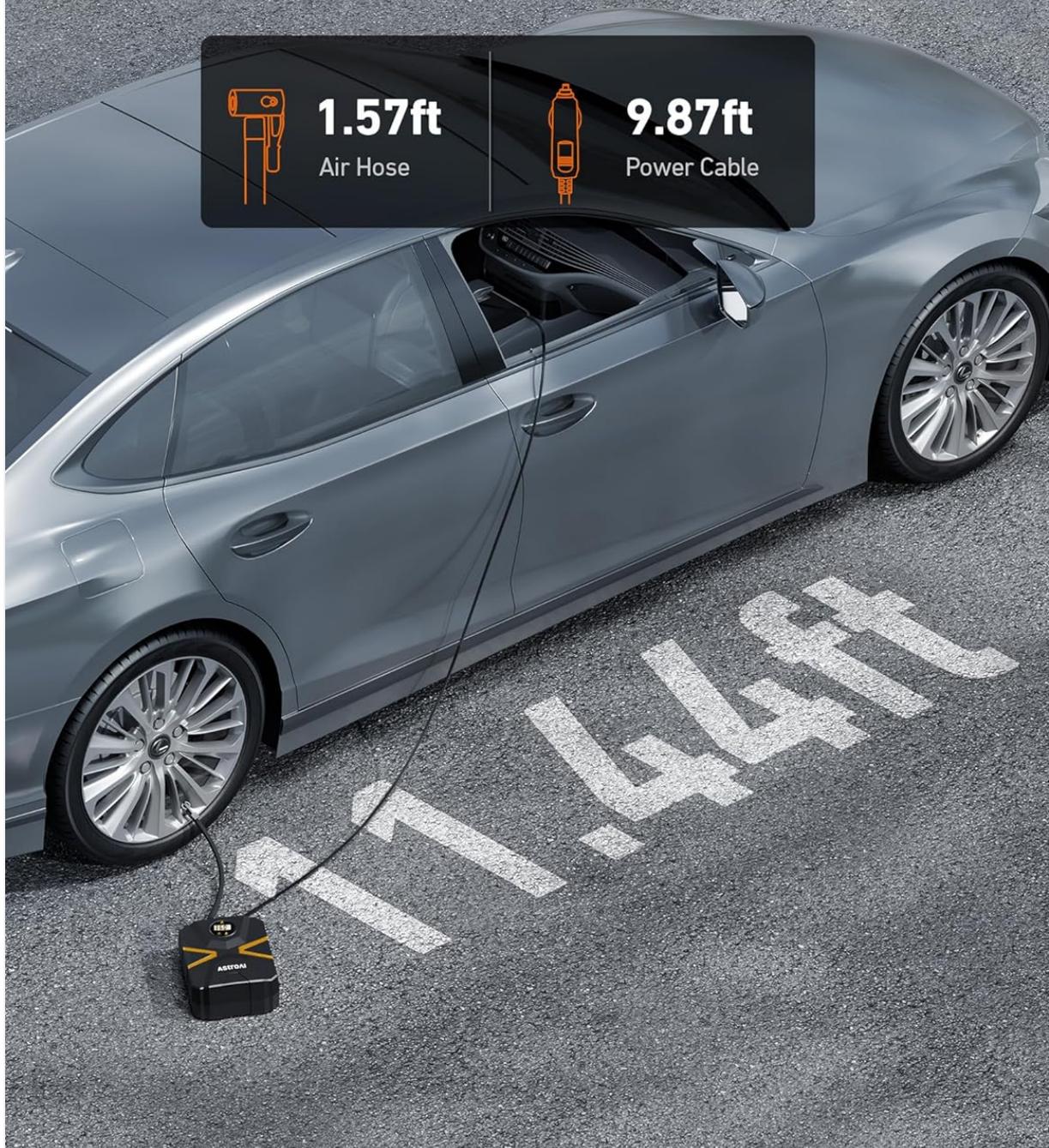


Figure 5: The AstroAI L7 features an ultra-long power cord (9.87 ft) and a 1.57 ft air hose, providing ample reach for all tires on a vehicle.

5. OPERATING INSTRUCTIONS

1. **Power On:** Once connected to the 12V power source, the digital display will illuminate.
2. **Select Unit:** Press the "Mode" button to cycle through pressure units: PSI, Bar, kPa, kg/cm². Choose your desired unit.
3. **Choose Inflation Mode:** Press the "Mode" button again to select from preset modes: Car, Motorcycle, Bicycle, Ball, or Custom. Each mode has a default pressure range.
4. **Set Target Pressure:** Use the "+" and "-" buttons to adjust the desired pressure value. For custom mode,

you can set any value between 3-150 PSI.

5. **Start Inflation:** Press the power button (usually indicated by a power symbol or play icon) to begin inflation. The inflator will automatically shut off once the preset pressure is reached.
6. **Monitor Progress:** The digital display will show the current tire pressure during inflation.
7. **Disconnect:** Once inflation is complete and the device has shut off, disconnect the air hose from the tire valve and then unplug the power cable from the 12V outlet.

Inflation Performance:

- For tires with specification 185/55 R14:
 - Inflating from 30 PSI to 36 PSI: Less than 1 minute.
 - Fully inflating from 0 PSI to 36 PSI: Less than 5 minutes.



Figure 6: Demonstrates the rapid inflation capability of the AstroAI L7, achieving 30-36 PSI in under 1.5 minutes for a 195/65R15 tire with an airflow of 17L/Min.

RAPID INFLATION



185/55 R14
≤1 Min



185/55 R14
≤5 Mins



Figure 7: Detailed inflation speed for the AstroAI L7, indicating it can inflate a 185/55 R14 tire from 30 PSI to 36 PSI in under 1 minute, and from 0 PSI to 36 PSI in under 5 minutes.

AUTO SHUTOFF AT THE PRESET PRESSURE

Hands-Free Inflation



Figure 8: The auto-shutoff feature of the AstroAI L7 ensures hands-free inflation, stopping automatically once the preset pressure is reached, preventing overinflation.

6. MAINTENANCE

- **Cleaning:** Wipe the exterior of the inflator with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure no water enters the device.
- **Storage:** Store the inflator in a dry, dust-free environment. This helps prevent pore blockage and ensures good heat dissipation for future use. Utilize the integrated storage for the air hose and accessories to keep them organized.
- **Cool Down:** To prevent motor overheating, the maximum continuous use time is 15 minutes. If used for this duration, allow the unit to cool down for at least 10 minutes before further operation.

- **Check Power Cable:** Periodically inspect the 12V power cable for any signs of damage or wear.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Inflator does not turn on.	No power from 12V outlet; vehicle engine not running; blown fuse in car or inflator.	Ensure vehicle engine is running. Check 12V outlet for power. Inspect and replace fuses if necessary (inflator fuse max 15A).
Slow inflation or no air output.	Air hose not securely connected; clogged air intake/outlet; continuous use limit reached.	Ensure air hose is tightly screwed onto valve. Check for obstructions. Allow device to cool down if used continuously for 15 minutes.
Inaccurate pressure reading.	Loose connection to valve stem; unit not calibrated (rare).	Ensure a tight seal between the hose and valve stem. If issues persist, contact customer support.
Inflator overheats and shuts off.	Exceeded 15-minute continuous use limit.	Allow the inflator to cool down for at least 10 minutes before resuming operation.

8. SPECIFICATIONS

Model:	L7
Brand:	AstroAI
Max Pressure:	150 PSI
Power Input:	12V DC (via car cigarette lighter)
Max Continuous Use:	15 minutes
Pressure Units:	PSI, Bar, kPa, kg/cm ²
Air Hose Length:	1.57 ft
Power Cable Length:	9.87 ft
Dimensions:	5.27" x 2.59" x 1.96" (approximate)
Weight:	0.96 lb (approximate)

9. WARRANTY AND SUPPORT

AstroAI products are designed and manufactured to the highest quality standards. For information regarding warranty coverage or technical support, please refer to the warranty card included with your product or visit the official AstroAI website.

If you encounter any issues or have questions about your AstroAI L7 Portable Tire Inflator, please contact AstroAI customer support for assistance.

