

## Happybuy ZSY01-3

# Happybuy 5-Ton Electric Car Jack Kit (Model ZSY01-3) User Manual

Integrated Inflator, Electric Scissor Jack, and Torque Wrench

## 1. INTRODUCTION

Thank you for choosing the Happybuy 5-Ton Electric Car Jack Kit. This comprehensive tool is designed to assist with emergency tire changes and maintenance, integrating a powerful electric scissor jack, a tire inflator, and an electric torque wrench. This manual provides essential information for safe and effective operation, maintenance, and troubleshooting of your device. Please read all instructions carefully before use and retain this manual for future reference.

## 2. SAFETY INFORMATION

**WARNING: Failure to follow these safety instructions may result in serious injury, death, or property damage.**

- Always operate the jack on a flat, stable, and non-slippery surface.
- Ensure the vehicle is in park (P) and the parking brake is engaged before lifting.
- Place wheel chocks on the wheels that remain on the ground to prevent vehicle movement.
- Never exceed the maximum load capacity of 5 tons (11000 lbs).
- Do not work under a vehicle supported only by the jack. Always use appropriate jack stands for support.
- Keep hands, feet, and other body parts clear of the jack mechanism during operation.
- Ensure the jack is positioned correctly under the vehicle's designated lifting points. Refer to your vehicle's owner's manual for specific lifting points.
- Avoid operating the jack in wet conditions or near flammable materials.
- Disconnect power when the jack is not in use or during maintenance.
- The red reflective triangle on the toolbox is for enhanced visibility during roadside emergencies. Position it appropriately.

- Use the provided gloves to protect your hands during operation.

### 3. PACKAGE CONTENTS

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Verify that all items listed below are present in your kit:

- 1 x Hydraulic Jack
- 1 x Electric Wrench
- 1 x Cigarette Lighter Power Cord
- 1 x Pair of Gloves
- 1 x Power Clamp (for direct battery connection)
- 2 x Sleeves (Sizes: 17-19 mm, 21-23 mm)
- 3 x Nozzles (for tire inflator)
- 3 x Fuses (1 in cigarette plug, 2 in jack side compartment)
- 1 x Small Allen Wrench
- 2 x Rods (one pre-installed, one extension rod)
- 1 x Security Hammer
- 1 x Tool Case
- 1 x User Manual (this document)



1 x Hydraulic Jack



1 x Electric Wrench



1 x Cigarette Lighter  
Power Cord



1 x Tool Case



1 x Pair of Gloves



1 x Power Clamp



2 x Sleeves  
(Sizes: 17-19 mm, 21-23 mm)



3 x Nozzles



3 x Fuses  
(1 in cigarette plug)



1 x Small  
Allen Wrench



2 x Rods  
(one pre-installed)



1 x Security Hammer



User Manual



12.4" / 315mm



6.1" / 155mm



6.1" / 155mm

Image: All components included in the Happybuy 5-Ton Electric Car Jack Kit, neatly arranged.

## 4. PRODUCT OVERVIEW

The Happybuy Electric Car Jack Kit combines three essential functions for roadside assistance and vehicle maintenance: an electric hydraulic jack for lifting, an electric impact wrench for lug nuts, and a built-in tire inflator.

# 3-In-1 Electric Car Jack Kit

Your Assistant for Emergency Tire Changes Roadside



Image: Visual representation of the 3-in-1 functionality: Hydraulic Lifting, Electric Wrench, and Fast Inflation.



Image: The complete Happybuy 5-Ton Electric Car Jack Kit, showcasing the jack, wrench, and various accessories.

## 5. SPECIFICATIONS

| Feature           | Specification      |
|-------------------|--------------------|
| Model Number      | ZSY01-3            |
| Max Load Capacity | 5 Tons (11000 lbs) |
| Input Voltage     | DC 12V             |
| Max Input Power   | 180W               |



| Feature                            | Specification                               |
|------------------------------------|---|
| Jack Min. Height                   | 6.1 in / 155 mm                             |
| Jack Max. Height (Short Rod)       | 17.7 in / 450 mm                            |
| Jack Max. Height (Extended Rod)    | 20.9 in / 530 mm                            |
| Electric Wrench Max Torque         | 350 N.m                                     |
| Net Weight (including accessories) | 20.9 lbs / 9.5 kg                           |
| Tool Case Dimensions               | 14.0 x 6.5 x 12.8 in / 355 x 165 x 325 mm   |
| Jack Dimensions                    | 12.4 x 6.1 x 6.1 in / 315 x 155 x 155 mm    |
| Wrench Dimensions                  | 9.8 x 3.7 x 5.5 in / 250 x 95 x 140 mm      |
| Vehicle Service Type               | Universal Fit (Cars, SUVs, Trucks under 5T) |



Image: Detailed dimensions of the electric jack, electric wrench, and the storage tool case.

## Suitable for Vehicles under 5T



Note: For your security, don't work under the vehicle once it is lifted.

Image: Illustration of the minimum, mid, and maximum lifting heights of the electric jack, with and without the extension rod.

## 6. SETUP AND POWER CONNECTION

Before operating the electric jack, ensure your vehicle is safely parked on a level surface, the engine is off, and the parking brake is engaged. Place wheel chocks on the wheels not being lifted.

### 6.1 Power Supply Options

The Happybuy Electric Car Jack offers two power connection methods:

1. **Cigarette Lighter Power:** Connect the cigarette lighter power cord to your vehicle's 12V cigarette lighter socket. This option is suitable for vehicles under 5 tons.
2. **12V Car Power Clamp:** For vehicles over 5 tons or for more stable power, connect the power clamp

directly to your car battery terminals (red clamp to positive '+', black clamp to negative '-').

Two spare fuses are included to prevent burnout. One fuse is pre-installed in the cigarette plug, and two additional fuses are located in the jack's side compartment.

## 2 Power Supply Options

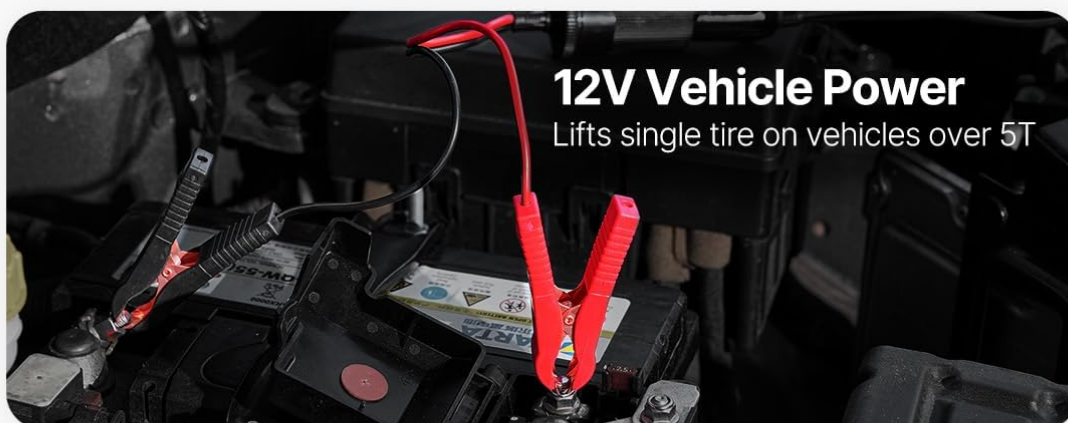


Image: Illustration showing the two power supply options: 12V vehicle battery clamp connection and cigarette lighter power connection, along with the included fuses.

## 7. OPERATING INSTRUCTIONS

### 7.1 Using the Electric Scissor Jack

1. Ensure the vehicle is on a flat surface, in park, with the parking brake engaged, and wheels chocked.
2. Locate the vehicle's designated lifting point.



3. Position the electric jack directly under the lifting point, ensuring it is vertical to the vehicle.
4. Connect the jack to a 12V power source using either the cigarette lighter or battery clamps.
5. Press the 'UP' button on the jack's control panel to raise the vehicle. Monitor the lifting process carefully.
6. Once the desired height is reached, release the button.
7. After completing your task, ensure all tools are clear, then press the 'DOWN' button to lower the vehicle slowly and steadily.
8. Once the vehicle is fully lowered, disconnect the power.

**IMPORTANT: Never place any part of your body under a vehicle supported only by the jack. Always use jack stands for safety.**

## **7.2 Using the Electric Torque Wrench**

1. Select the appropriate hexagonal socket (17/19mm or 21/23mm) for your lug nuts and attach it to the wrench.
2. Connect the electric wrench to a 12V power source (cigarette lighter or battery clamps).
3. Place the socket onto the lug nut.
4. Press the 'LOOSEN' button to remove lug nuts or the 'TIGHTEN' button to secure them. The wrench provides a maximum torque of 350 N.m.
5. After tightening, it is recommended to use a manual torque wrench to verify the lug nuts are tightened to your vehicle manufacturer's specifications.



Image: A person using the electric torque wrench to remove a lug nut from a car wheel, highlighting the 350 N.m max torque and the two included socket sizes.

### 7.3 Using the Built-in Tire Inflator

1. Connect the jack to a 12V power source.
2. Unscrew the valve cap from the tire valve stem.
3. Screw the inflator hose onto the tire valve stem. Ensure a tight seal.
4. The built-in pressure gauge will display the current tire pressure.
5. Press the 'INFLATE' button on the jack's control panel to start inflation.
6. Monitor the pressure gauge and stop inflation once the desired tire pressure is reached.
7. Unscrew the inflator hose from the valve stem and replace the valve cap.

8. Use the included 3 nozzles for inflating other items like sports balls or inflatable toys.

## Built-In Tire Inflator



Image: Close-up view of the built-in tire inflator with its pressure gauge and the three standard nozzles for various inflation needs.

## 8. MAINTENANCE

Proper maintenance ensures the longevity and reliable performance of your Happybuy Electric Car Jack Kit.

- **Cleaning:** After each use, wipe down the jack, wrench, and accessories with a clean, dry cloth to remove dirt, dust, and moisture.
- **Storage:** Store all components neatly in the provided tool case. Keep the kit in a dry, cool place, away from direct sunlight and corrosive chemicals.



- **Hydraulic Fluid:** The hydraulic system is sealed and generally does not require user maintenance. If you notice any leaks or performance issues, contact customer support.
- **Fuses:** If the jack or wrench stops working, check the fuses in the cigarette plug and the jack's side compartment. Replace blown fuses with the provided spares (30A).
- **Cables:** Regularly inspect power cords and clamps for any signs of damage, fraying, or corrosion. Replace damaged components immediately.

## 9. TROUBLESHOOTING

| Problem  | Possible Cause   | Solution   |
|--|--|--|
| Jack/Wrench does not power on.                 | No power connection, blown fuse, low vehicle battery.              | Ensure secure power connection. Check and replace fuses. Check vehicle battery voltage. For vehicles over 5T, use battery clamps.                            |
| Jack lifts slowly or not at all.               | Overload, insufficient power, air in hydraulic system.             | Ensure vehicle weight is within 5-ton limit. Use battery clamps for stable power. Contact support if issue persists.   |
| Tire inflator not working or slow.             | Loose connection, blocked nozzle, low power.                       | Ensure inflator hose is tightly screwed onto valve. Check nozzles for obstructions. Verify stable 12V power supply.  |
| Electric wrench not loosening/tightening nuts. | Incorrect socket size, insufficient power, lug nuts overtightened. | Ensure correct socket is used. Verify stable 12V power. For extremely tight nuts, manual loosening may be required first.                                    |
| Jack is unstable during lifting.               | Uneven surface, incorrect positioning, vehicle not in park.        | Move to a flat, stable surface. Reposition jack vertically under the lifting point. Ensure vehicle is in park with parking brake engaged and wheels chocked. |

## 10. WARRANTY AND SUPPORT

Happybuy products are designed for reliability and performance. For warranty information, please refer to the documentation provided at the time of purchase or contact your retailer. If you encounter any issues or require technical assistance, please contact Happybuy customer support through their official website or the contact information provided with your product.

For further assistance, please visit the [Happybuy Store on Amazon](#).