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› Tlyard Tesla Model Y Juniper Frunk Electric Suction Soft Closing User Manual

Tlyard Juniper

Tlyard Tesla Model Y Juniper Frunk Electric Suction Soft Closing User Manual

Model: Juniper | Brand: Tlyard

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the Tlyard Electric Suction Soft Closing system for the Tesla Model Y Juniper frunk. This system is designed to enhance convenience and protect your vehicle's front trunk by providing an automatic, soft-closing mechanism.



Image 1.1: Tesla Model Y with the frunk area highlighted, demonstrating the soft closing function.

2. PRODUCT FEATURES

The Tlyard Electric Suction Soft Closing system offers several key features designed for optimal performance and user safety:

- **Customized Compatibility:** Specifically designed for Tesla Model Y Juniper 2025, ensuring a precise fit and seamless integration.
- **Automatic Soft Closing:** Gently push the front luggage door to a semi-closed 5mm position, and the system will automatically suction lock, eliminating the need for forceful closing.
- **Safety Anti-Pinch Algorithm:** Incorporates an intelligent anti-pinch algorithm that immediately stops the closing process if resistance is encountered. This feature includes two sensitivity levels (approx. 1.5kg initial and 2.5kg secondary force) to ensure user safety.
- **Timed Closing Function:** An internally programmed timed closing function prevents accidental opening. If no operation is detected within 90-120 seconds after unlocking, the frunk will automatically close.

- **Durable Construction:** Made from high-quality alloy for strength, corrosion resistance, and oxidation resistance. Features automotive-grade wire core and specialized high-torque motors for long-lasting performance.

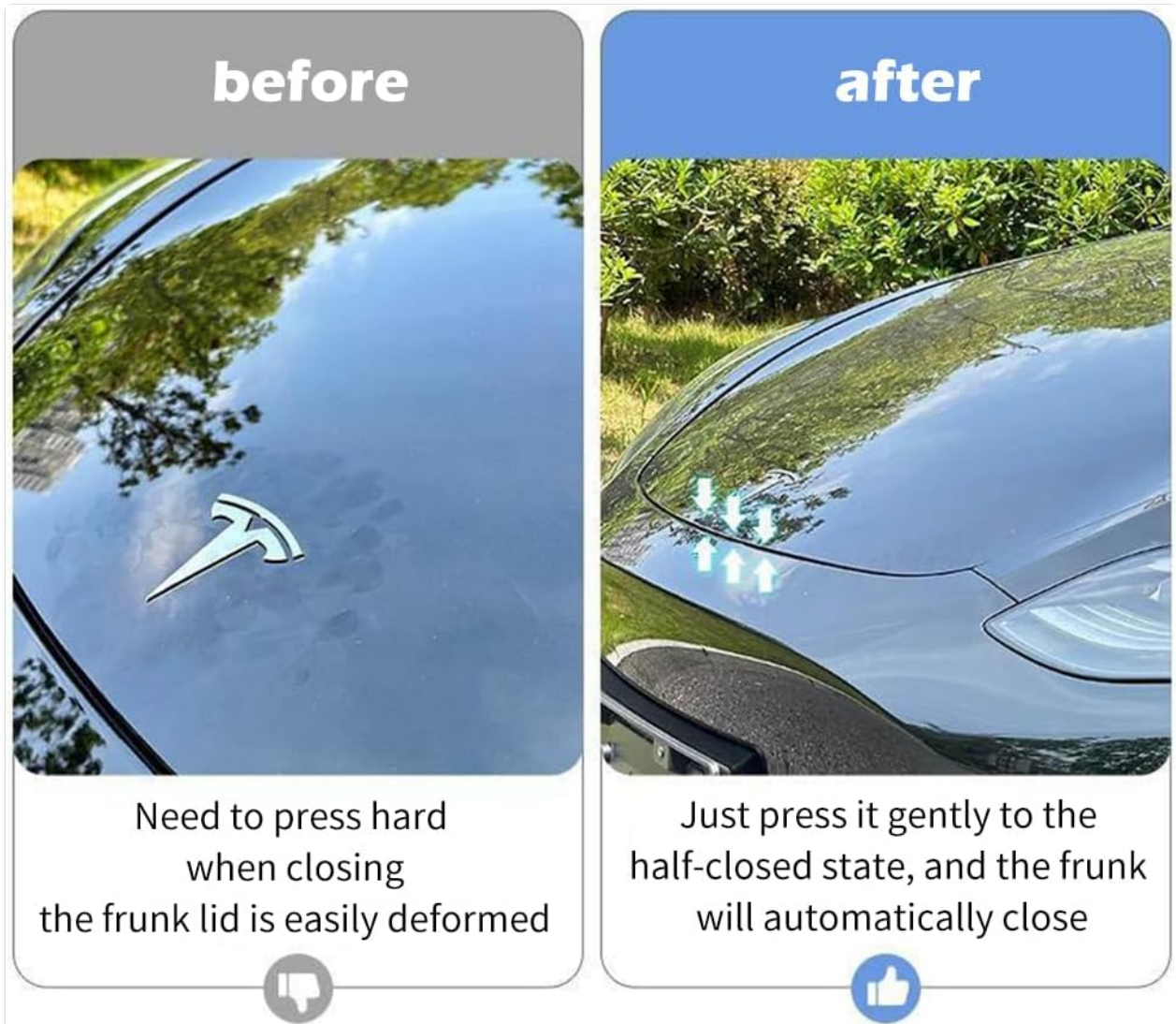


Image 2.1: Visual comparison of frunk closing before and after installing the soft close system.

WITH POWERFUL ENGINE PERFORMANCE

Made of high-strength alloy, corrosion-resistant, oxidation-resistant, high-torque



Equipped with a special motor

Extremely low noise level

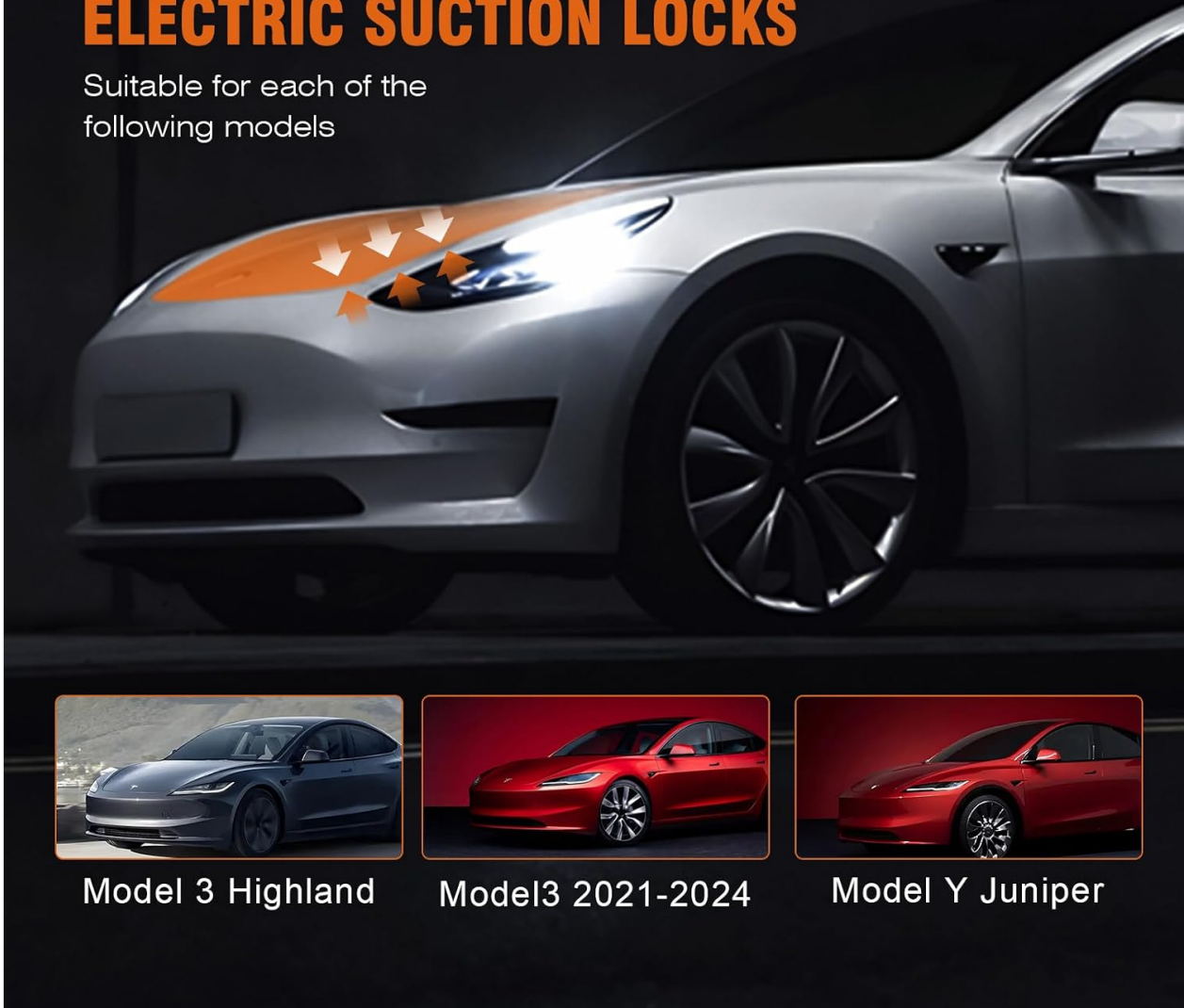
Customized special designs



Image 2.2: Illustration of the electric suction lock's internal components and robust design.

FRONT TRUNK SMART ELECTRIC SUCTION LOCKS

Suitable for each of the
following models



Model 3 Highland

Model3 2021-2024

Model Y Juniper

Image 2.3: Compatibility overview for various Tesla models.

3. SETUP AND INSTALLATION

The Tlyard Frunk Soft Close system is designed for a plug-and-play installation, replacing the original suction lock without requiring drilling or circuit modification. It does not alter the original structure of the Tesla and will not affect the original lock's functionality.

3.1 Installation Overview

Installation involves covering the original suction lock with the new unit. No complex wiring or structural changes are needed. For detailed visual guidance, it is recommended to consult the manufacturer's official installation videos or guides, which may be available through their website or support channels.

Safe guards for easy driving and worry-free enjoyment



Original Spacer



Original locking block

Image 3.1: Original frunk components that the soft close system integrates with.

3.2 Important Considerations During Installation

- Ensure the factory latch is set to its highest position for proper closure height.
- Verify that the unit aligns correctly to prevent issues with closing. If the hood is pulled in too hard, readjust the motor position.

Note: Some user reports indicate that in rare failure scenarios, the system may not have a manual opening mechanism. It is crucial to follow all installation steps carefully and test the system thoroughly after installation.

4. OPERATING INSTRUCTIONS

4.1 Closing the Frunk

To close the frunk, gently push the front luggage door down until it reaches the semi-closed position (approximately 5mm from fully closed). The electric suction mechanism will then automatically engage and pull the frunk lid securely shut.

4.2 Automatic Timed Closing

The system features an intelligent timed closing function. If the frunk is unlocked and opened via the central touchscreen or mobile application, but no further action is taken within 90 to 120 seconds, the system will automatically close the frunk to prevent it from being left open inadvertently.

4.3 Anti-Pinch Safety Feature

During the automatic closing process, the integrated anti-pinch algorithm continuously monitors for obstructions. If any resistance is detected, the system will immediately stop closing to prevent injury or damage. This feature operates with two levels of sensitivity for enhanced safety.

5. MAINTENANCE

The Tlyard Electric Suction Soft Closing system is designed for minimal maintenance. To ensure optimal performance and longevity:

- Keep the frunk latch area clean and free from debris.
- Periodically inspect all connections and mounting points to ensure they are secure.
- Avoid applying excessive force when manually closing the frunk, as this can stress the mechanism.

6. TROUBLESHOOTING

If you encounter issues with your Tlyard Electric Suction Soft Closing system, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Frunk does not close completely or is pulled in too hard.	Improper alignment of the unit or factory latch setting.	Ensure the factory latch is set to its highest position. Readjust the motor position if the hood is being pulled too forcefully.
System does not respond or operate.	Power connection issue or system malfunction.	Check all electrical connections to ensure they are secure. If the issue persists, contact customer support.
Anti-pinch feature triggers too frequently or not at all.	Sensor obstruction or calibration issue.	Ensure the area around the frunk latch is clear. If the problem continues, professional inspection may be required.

Important: In the event of a system failure, some users have reported a lack of a manual override mechanism. If the frunk becomes stuck, it is recommended to seek assistance from a qualified automotive technician.

7. SPECIFICATIONS

Attribute	Detail
Brand	Tlyard
Model Name	Tesla Electric Suction Lock
Item Model Number	Juniper
Special Feature	Tesla Electric Suction Lock
Lock Type	Combination Lock
Color	Black
Item Dimensions (L x W x H)	3.02 x 3.01 x 3 inches
Item Weight	2.75 pounds (1.25 Kilograms)
Included Components	Tesla Electric Suction Lock*1
UPC	763055107109

8. WARRANTY AND SUPPORT

For information regarding product warranty, please refer to the terms and conditions provided at the time of purchase or contact Tlyard directly through their official support channels. Warranty coverage may vary based on region and purchase date.

If you require technical assistance, have questions about installation, or need to report a product issue, please reach out to Tlyard customer support. Contact details are typically available on the product packaging or the manufacturer's official website.