

HANSSHOW 2021 2022 Model 3 power frunk

Hansshow Power Frunk Kit for Tesla Model 3

Model: 2021-2023 Tesla Model 3

Brand: HANSSHOW



Official Hansshow Brand Logo

1. INTRODUCTION

The Hansshow Power Frunk Kit is designed to upgrade your Tesla Model 3 (2021-2023 models) with an automatic front trunk opening and closing system. This kit enhances convenience and functionality by providing multiple control methods and intelligent safety features. It aims to prevent manual deformation of the frunk cover and offers a quiet, safe operation.



Image 1.1: Overview of the Hansshow Power Frunk Kit components and its operation on a Tesla Model 3.

2. COMPATIBILITY

This Power Frunk Kit is compatible with Tesla Model 3 vehicles manufactured in 2021, 2022, and 2023.

Important Note for 2022 Models: For 2022 Tesla Model 3 vehicles, it is crucial to verify the type of 12V battery installed. This kit is compatible with models that have a 'normal' 12V battery with exposed metal terminal ends (typically one with a red positive cover). It is **NOT** compatible with newer updated batteries that feature a white/black/green switch-like component in the middle and no exposed terminal ends.

To check compatibility, open your frunk and remove the large plastic piece near the bottom of the windshield (it pops off without tools). Inspect your 12V battery type before proceeding with installation.

3. PACKAGE CONTENTS

Please ensure all the following items are present in your package:

- 2 x Electric Struts (Car Supports)

- 1 x ECU Control Box
- 1 x Electric Latch Mechanism (Machine Lock)
- 1 x Cable and Screw Accessories Set
- 1 x User Manual



Image 3.1: All components included in the Hansshow Power Frunk Kit.

4. SETUP AND INSTALLATION

Installation of the Hansshow Power Frunk Kit involves replacing the manual frunk struts and latch with electric components and connecting the control unit. The kit is designed for simplified installation with plug-and-play connectors. However, professional installation is recommended for optimal results.

4.1. General Installation Guidelines

- **Power Off Vehicle:** Before beginning installation, ensure your Tesla is powered off through the safety settings on the central touchscreen. This prevents accidental alarms and electrical issues.
- **Refer to Official Videos:** For detailed, step-by-step installation instructions, refer to the official installation videos provided

by Hansshow. These videos demonstrate the precise procedures for component replacement and wiring.

- **Tool Requirements:** You will typically need two different wrench sizes: one for the latch and frunk components, and a larger size for the suspension struts. A small gear wrench kit can expedite the process.

4.2. Latch Adjustment

If the frunk does not latch closed properly after installation, the new latch mechanism may be positioned too low. To adjust:

1. Loosen the two nuts securing the latch mechanism.
2. Pull the latch mechanism up by approximately 3cm.
3. Retighten the nuts securely. This elevation should allow the frunk hook to properly engage the latch when closing.



Image 4.1: Close-up of the electric latch mechanism and control box.

5. OPERATING THE POWER FRUNK

The Hansshow Power Frunk Kit offers multiple convenient methods for opening and closing your front trunk:

- **Tesla Central Control Display:** Operate the frunk directly from your vehicle's central touchscreen.
- **Mobile App:** Use the dedicated mobile application on your smartphone for remote control.
- **Front Trunk Button:** Utilize the existing button located on the frunk itself.
- **Original Car Key Switch:** Control the frunk using your Tesla's original key fob.

5.1. Intelligent Anti-Pinch Function

During the closing process, the system is equipped with an intelligent anti-pinch feature. If an obstacle (person or object) is detected, the frunk will automatically stop descending to prevent damage or injury.

5.2. Low Noise Operation

The electric struts and mechanism are designed for quiet operation, with noise levels typically below 30 decibels, ensuring a discreet and pleasant user experience.

Various Control Methods

No noise, low noise, intelligent anti-pinch, safe and quiet



Mobile App
Control



Central Console
Screen Control



Frunk Control

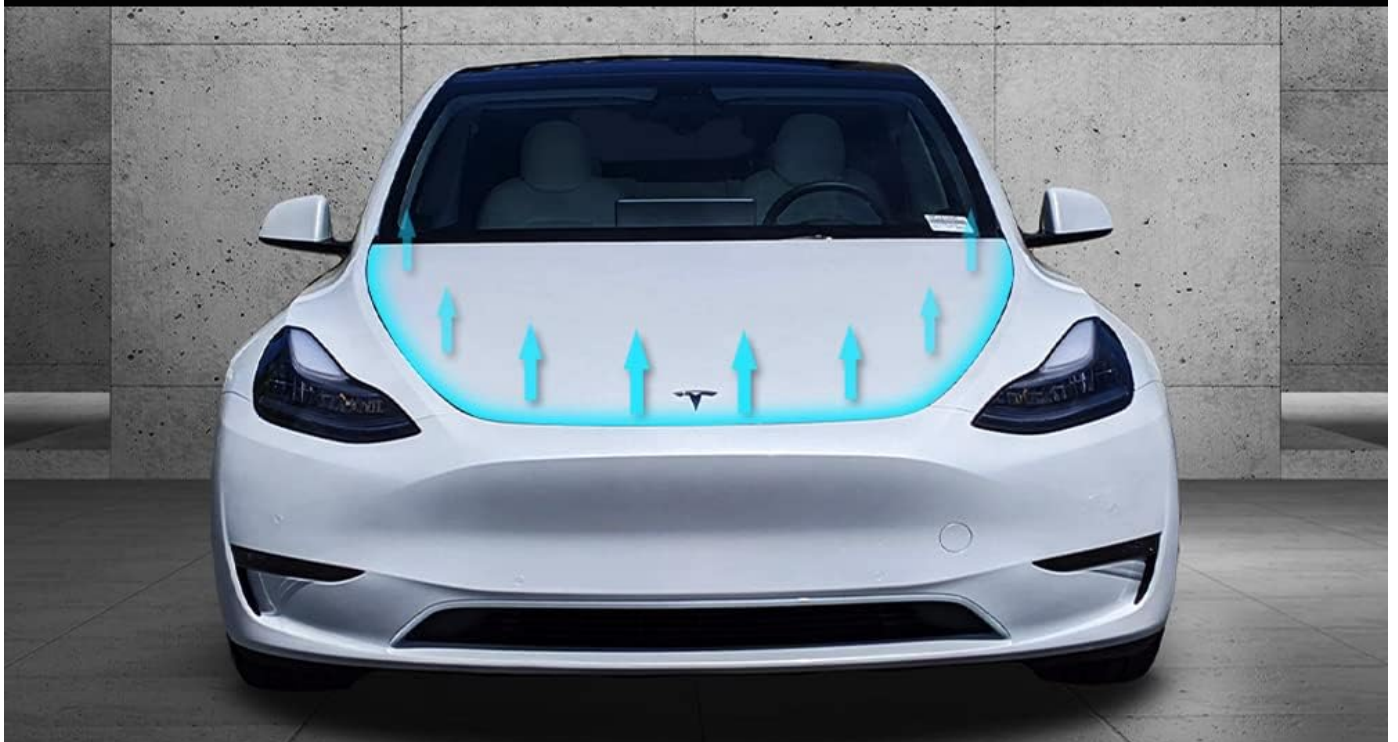


Image 5.1: Illustration of the various control methods for the Power Frunk.



Image 5.2: Visual representation of multiple control options and smart features like anti-pinch.

6. MAINTENANCE

To ensure the longevity and optimal performance of your Hansshow Power Frunk Kit, follow these simple maintenance guidelines:

- **Regular Inspection:** Periodically inspect the electric struts, latch mechanism, and all visible wiring for any signs of wear, damage, or loose connections.
- **Keep Clean:** Keep the components clean and free from dirt, dust, and debris. Use a soft, damp cloth for cleaning. Avoid harsh chemicals.
- **Obstruction Check:** Before closing the frunk, always ensure there are no obstructions in the closing path. Even small items can prevent proper latching.

7. TROUBLESHOOTING

If you encounter issues with your Hansshow Power Frunk Kit, refer to the following common problems and solutions:

7.1. Frunk Does Not Latch Closed

- **Obstruction:** Check for any objects or debris preventing the frunk from fully closing and engaging the latch.
- **Latch Adjustment:** The latch mechanism might be set too low. Refer to Section 4.2 for instructions on adjusting the latch height.
- **Reset Cycle:** If the frunk refuses to latch, try using the Tesla app or central display to open and close the frunk a few times. This can sometimes reset the mechanism.

7.2. Frunk Stopped Working After Tesla Software Update

Some users have reported issues with the frunk functionality after certain Tesla software updates. If this occurs, contact Hansshow customer support for potential solutions or firmware updates for the kit.

7.3. Excessive Noise During Operation

The system is designed for low noise operation (below 30 decibels). If you experience unusually loud noises, inspect the struts and latch for any physical damage or misalignment. If the issue persists, contact customer support.

7.4. System Malfunction

If the system completely fails or exhibits erratic behavior, ensure all electrical connections are secure. If the problem cannot be resolved, contact Hansshow customer support for further assistance.

8. SPECIFICATIONS

Feature	Description
Model Name	Tesla Model 3 Power Frunk 2021 2022
Part Number	Tesla Model 3 power frunk kit V5
Compatible Devices	Tesla Model 3 (2021, 2022, 2023)
Material	Alloy Steel
Product Dimensions (L x W x H)	45.72 x 12.7 x 27.94 cm
Product Weight	3.76 kg
Electric Strut Installation Distance	330 mm
Electric Strut Stroke	100 mm
Electric Strut Medium	Nitrogen
Operating Noise Level	Less than 30 decibels
ECU Waterproof Rating	IPx-8
Special Features	Height adjustment, Anti-pinch, Bluetooth connectivity, Waterproof ECU, Automatic switch

Three intelligent switch operations

The switch is fully automatic without manual closing



Image 8.1: The ECU Control Box, highlighting its IPx-8 waterproof rating.

DIY design and non-destructive installation, because all connectors are plug-in and suitable for OEM connectors.

A New version of the Hansshow Tesla Model 3 Power Frunk




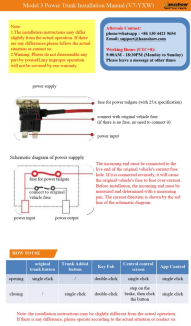


Image 8.2: The electric struts featuring a low noise design for quiet operation.

9. WARRANTY AND SUPPORT

For warranty information, technical assistance, or any questions regarding the Hansshow Power Frunk Kit, please contact Hansshow customer support. They can provide guidance on installation, troubleshooting, and product-related inquiries.

If parts are damaged during the installation process or if installation errors render the product unusable, Hansshow's after-sales personnel can arrange for engineers who designed the product to assist in resolving the issue.

Related Documents

	<p>Model 3 Highland Power Frunk Installation and Features Guide</p> <p>Comprehensive guide to the installation, features, and benefits of the Hansshow Model 3 Highland Power Frunk. Learn about its one-button lifting, automatic suction and locking, height memory, and multiple control methods.</p>
	<p>Tesla Model 3 Power Trunk & Kick Sensor Installation Guide</p> <p>Comprehensive installation manual for the Hansshow Power Trunk and Kick Sensor upgrade kit for Tesla Model 3 (V7-YXW, 2017-2020). Includes operating instructions, product list, and detailed step-by-step wiring and installation procedures.</p>
	<p>Hansshow Universal F9 Carplay Instrument Screen Installation and Features Guide</p> <p>Comprehensive guide to the Hansshow Universal F9 Carplay Instrument Screen, covering installation, features, troubleshooting, and warranty. Enhance your vehicle's infotainment system.</p>
	<p>Hansshow MYJ Media Rearview Mirror Dash Cam 8.9 Inch Installation Manual</p> <p>Installation guide for the Hansshow MYJ Media Rearview Mirror Dash Cam 8.9 Inch Live Streaming Recorder with OEM Style. Covers package contents, detailed installation steps, and troubleshooting FAQs.</p>