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Tbest Tbeste8dic1v4x6

Tbest Car Push Start System (Model Tbeste8dic1v4x6) User Manual

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Tbest Car Push Start System. This universal smart keyless engine stop button and RFID ignition kit is designed for 12V vehicles, offering convenience and enhanced security features. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. Safety Information

WARNING: Improper installation can lead to vehicle damage, electrical malfunction, or personal injury. Professional installation is highly recommended.

- Ensure the vehicle's battery is disconnected before beginning any installation work to prevent electrical shorts or damage.
- This system is designed for 12V vehicle electrical systems only. Do not attempt to install it in vehicles with different voltage systems.
- The foot brake detection function is a critical safety feature. Ensure it is correctly wired and functioning to prevent accidental vehicle starts.
- Keep the ECU control box and other electronic components away from water, excessive heat, and direct sunlight.
- Do not attempt to modify or disassemble any components of the system. This may void the warranty and create safety hazards.

3. Package Contents

Please verify that all items listed below are present in your package:

- 1 x ECU Control Box
- 1 x One Key Start Button
- 2 x Smart Inductive Key (RFID Key Fobs)
- 3 x Auxiliary Line (Wiring Harnesses)
- 2 x Cable Tie

- 1 x User Manual (this document)



Image 3.1: All components included in the Tbest Car Push Start System kit. This includes the ECU control box, push start button, two RFID keys, and various wiring harnesses.

4. Setup and Installation

Installation of the Tbest Car Push Start System requires knowledge of automotive electrical systems. It is strongly recommended that installation be performed by a qualified professional.

4.1 Pre-Installation Checklist

1. Ensure the vehicle's battery is disconnected.
2. Identify suitable mounting locations for the ECU control box and the push start button.
3. Familiarize yourself with your vehicle's wiring diagram, especially for ignition, ACC, ON, and starter circuits.

4.2 Component Overview



Image 4.1: The ECU Control Box, the central unit of the system, responsible for managing ignition and security functions.



Image 4.2: The One Key Start Button, used to start and stop the vehicle's engine.

4.3 General Wiring Guidelines (Consult a professional for specific vehicle wiring)

1. **Power Connections:** Connect the main power wires from the ECU to a constant 12V source and ground.
2. **Ignition Wires:** Connect the ACC, ON, and START wires from the ECU to the corresponding circuits in your vehicle's ignition system.
3. **Foot Brake Detection:** Connect the foot brake detection wire to the vehicle's brake light switch. This is crucial for safety.
4. **Push Start Button:** Connect the push start button to the designated port on the ECU.
5. **RFID Antenna/Inductive Key Reader:** Install the RFID antenna in a discreet but accessible location, typically near the steering column, and connect it to the ECU.
6. **Security Features:** If integrating with existing alarm systems or immobilizers, ensure proper wiring as per your vehicle's specifications.

Note: The provided auxiliary lines (wiring harnesses) are color-coded. Refer to the detailed wiring diagram in the included paper manual for specific connections relevant to your vehicle model.

5. Operating Instructions

Once the system is correctly installed, follow these steps to operate your vehicle:

5.1 Disarming and Enabling Start

1. Approach the vehicle with the Smart Inductive Key (RFID key fob) in your possession. The system will automatically detect the key.
2. The system will disarm, allowing the vehicle to be started.

5.2 Starting the Engine

1. Ensure the vehicle is in Park (P) or Neutral (N) and the parking brake is engaged.
2. Press and hold the foot brake pedal.
3. Press the "ENGINE START STOP" button briefly. The engine will start.
4. If the engine does not start on the first attempt, release the button, ensure the foot brake is pressed, and try again. For cold starts, you may need to press and hold the start button for up to 3 seconds until the engine fully ignites.

5.3 Stopping the Engine

1. Bring the vehicle to a complete stop.
2. Shift the gear selector to Park (P).
3. Press the "ENGINE START STOP" button briefly. The engine will turn off.

5.4 ACC and ON Power Modes

The system allows you to activate ACC (Accessory) and ON (Ignition) power without starting the engine:

- **ACC Mode:** With your foot off the brake, press the "ENGINE START STOP" button once. Accessories like the radio will power on.
- **ON Mode:** With your foot off the brake, press the "ENGINE START STOP" button a second time. The ignition will turn on, powering dashboard lights and other systems, but the engine will not start.
- **Turn Off:** To turn off ACC or ON mode, press the "ENGINE START STOP" button a third time (or until all power is off).

5.5 Automatic Engine Lock

For enhanced security, the system automatically locks the engine 30 seconds after the vehicle stalls or is turned off. The vehicle cannot be started until the Smart Inductive Key is detected again.

6. Maintenance

The Tbest Car Push Start System is designed for reliable operation with minimal maintenance. Follow these guidelines to ensure its longevity:

- **Keep Components Dry:** Protect the ECU control box, push start button, and RFID keys from moisture and water exposure.
- **Avoid Extreme Temperatures:** Do not expose the system components to excessively high or low temperatures for prolonged periods.
- **Clean Gently:** If cleaning is necessary, use a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **RFID Key Care:** Handle the RFID key fobs with care. Avoid dropping them or subjecting them to strong impacts. They do not require battery replacement.

- **Wiring Inspection:** Periodically check visible wiring for any signs of wear, fraying, or loose connections. If any issues are found, consult a professional.

7. Troubleshooting

If you encounter issues with your Tbest Car Push Start System, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Engine does not start when button is pressed.	• Foot brake not pressed. • Smart Inductive Key not detected. • Loose wiring connection. • Vehicle battery low.	• Ensure foot brake is firmly pressed. • Ensure RFID key is inside the vehicle. • Check all wiring connections, especially power and ignition. • Check vehicle battery charge.
System does not disarm.	• Smart Inductive Key not detected. • RFID antenna connection issue.	• Ensure RFID key is within range. • Check connection of the RFID antenna to the ECU.
ACC/ON modes not working.	• Incorrect wiring for ACC/ON circuits. • System malfunction.	• Verify ACC and ON wiring connections. • Consult a professional installer.

If the problem persists after trying these solutions, please contact a qualified automotive electrician or Tbest customer support for assistance.

8. Specifications

Technical specifications for the Tbest Car Push Start System (Model Tbeste8dic1v4x6):

Feature	Detail
Model Number	Tbeste8dic1v4x6
Material	ABS (Acrylonitrile Butadiene Styrene)
Operating Voltage	12 Volts
Current Rating	2 A
Static Working Current	≤ 25mA
Control Method	Push Button
Compatibility	Universal for 12V Cars
Product Dimensions	16.99 x 14 x 4.98 cm (6.69 x 5.51 x 1.96 inches)
Item Weight	326 g (0.72 lbs)

Feature	Detail
Manufacturer	Tbest
Country of Origin	China

9. Warranty and Support

Warranty: The Tbest Car Push Start System (Model Tbeste8dic1v4x6) comes with a manufacturer warranty for 90 days from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by improper installation, misuse, accidents, or unauthorized modifications.

Customer Support: For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact your retailer or visit the official Tbest support channels. When contacting support, please have your product model number (Tbeste8dic1v4x6) and proof of purchase available.

For more information about Tbest products, you can visit theTbest Store on Amazon.

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