

compustar 7900as installation manual

compustar 7900as installation manual is an essential resource for anyone looking to properly install and configure the Compustar 7900AS remote start and security system. This guide provides in-depth instructions to ensure a smooth and successful installation process, minimizing errors and maximizing system performance. Whether you are a professional installer or a knowledgeable car enthusiast, understanding the wiring, programming, and mounting requirements outlined in the manual is crucial. The comprehensive details cover everything from initial preparations to troubleshooting tips, enabling users to get the most out of their Compustar 7900AS system. Additionally, the manual emphasizes safety precautions and compatibility considerations with various vehicle models. This article will explore the key components of the compustar 7900as installation manual, focusing on setup procedures, wiring diagrams, programming instructions, and common challenges. The following sections provide a structured overview for efficient installation and optimal functionality.

- Overview of the Compustar 7900AS System
- Preparation and Required Tools
- Wiring and Connection Instructions
- Programming and Configuration
- Mounting and Physical Installation
- Testing and Troubleshooting

Overview of the Compustar 7900AS System

The Compustar 7900AS is a sophisticated remote start and security system designed to enhance vehicle convenience and protection. Its features include remote engine start, keyless entry, security alarm, and two-way communication through the included remote. The system supports a range of vehicles and integrates with various OEM security protocols.

Understanding the system's components is crucial before installation. The main unit, antenna, wiring harnesses, relays, and remotes all play critical roles. Each component must be correctly installed and configured to ensure seamless operation. The compustar 7900as installation manual provides detailed descriptions of these parts, outlining their functions and installation points.

System Components

The key elements of the Compustar 7900AS system include:

- **Control Module:** The brain of the system, responsible for processing remote commands and controlling outputs.
- **Two-Way Remote:** Allows communication with the vehicle, displaying status and receiving commands.
- **Antenna:** Extends the remote range by receiving signals from the remote.
- **Wiring Harness:** Connects the control module to the vehicle's electrical system.
- **Relays:** Actuate circuits such as ignition and starter relays for remote start functionality.

Preparation and Required Tools

Before beginning the installation, thorough preparation is essential to ensure a smooth process. The compustar 7900as installation manual emphasizes gathering all necessary tools and materials, reviewing vehicle compatibility, and understanding the wiring layout specific to the vehicle make and model.

Tools Needed for Installation

The installation requires a set of specialized tools to handle wiring and mounting tasks efficiently. Common tools include:

- Wire strippers and crimpers
- Multimeter for voltage and continuity testing
- Soldering iron and heat shrink tubing for secure wire connections
- Electrical tape and zip ties for cable management
- Screwdrivers and panel removal tools
- Drill with appropriate bits for mounting components

Having the correct tools ready prevents damage to vehicle components and ensures reliable electrical connections.

Vehicle Compatibility and Preliminary Checks

The manual advises verifying the vehicle's compatibility with the Compustar 7900AS system. This involves checking the vehicle's ignition type, security system, and wiring

schematics. Some vehicles may require additional bypass modules or adapters for proper installation. Additionally, disconnecting the vehicle battery before starting the installation reduces the risk of electrical shorts or damage.

Wiring and Connection Instructions

The wiring phase is critical for the successful operation of the Compustar 7900AS system. The installation manual provides detailed wiring diagrams and color codes for connecting the system to the vehicle's electrical components. Accurate wiring ensures that commands from the remote control are properly transmitted to the vehicle.

Key Wiring Connections

Essential connections include power, ground, ignition, starter, brake, and accessory wires. Each wire must be connected securely to corresponding vehicle circuits, following the color coding and pin assignments in the manual.

- **Power Wire:** Connects to a constant 12V source to power the control module.
- **Ground Wire:** Must be attached to a clean, unpainted chassis ground point.
- **Ignition Wire:** Tied to the ignition switch circuit to enable remote start functions.
- **Starter Wire:** Controls the starter relay for engine cranking.
- **Brake Wire:** Connects to the brake pedal switch to disable remote start when the brake is pressed.
- **Accessory Wire:** Powers accessory circuits during remote start.

Using Relays and Bypass Modules

Relays are used to handle high current circuits safely and to isolate the control module from direct vehicle wiring. The manual specifies relay wiring for ignition and starter circuits. In some vehicles with advanced security systems, bypass modules are necessary to override factory immobilizers during remote start. Proper integration of these modules is critical for system functionality.

Programming and Configuration

Programming the Compustar 7900AS system is a vital step that customizes the remote start and security settings according to user preferences and vehicle requirements. The installation manual details the procedures for entering programming mode and configuring system parameters.

Entering Programming Mode

To access programming mode, specific sequences involving the vehicle's ignition and brake pedal are followed. Once in programming mode, various features such as remote start duration, keyless entry functions, and alarm sensitivity can be adjusted. The manual outlines the exact button presses and timing needed for these configurations.

Customizable Features

The system allows adjustments in several areas, including:

- Remote start run time (typically 5 to 30 minutes)
- Lock and unlock confirmation chirps
- Shock sensor sensitivity for the alarm
- Auxiliary outputs for additional devices
- Valet mode activation and deactivation

Programming ensures the system operates optimally within the user's expectations and vehicle's electrical environment.

Mounting and Physical Installation

Physically installing the Compustar 7900AS control module and associated components requires careful attention to placement and security. The manual advises choosing locations that protect components from moisture, heat, and vibration while allowing access for wiring.

Control Module Placement

The control module should be mounted inside the vehicle, typically under the dashboard or near the steering column. The location must be secure and out of sight to prevent tampering. Using double-sided tape or zip ties can help keep the module firmly in place.

Antenna and Sensor Installation

The antenna is a critical component for remote communication. It should be mounted in a high and unobstructed location inside the vehicle, such as near the windshield or side windows. Proper orientation improves signal reception and remote range. Shock sensors and other auxiliary devices should also be securely fastened according to the manual's guidelines.

Testing and Troubleshooting

After installation, thorough testing is necessary to confirm the system's functionality and reliability. The compustar 7900as installation manual includes step-by-step testing procedures that verify each connection and system feature.

System Functionality Tests

Testing involves verifying remote start, keyless entry, alarm activation, and sensor responses. The installer should check the following:

1. Remote start initiates engine start without error.
2. Vehicle locks and unlocks via remote commands.
3. Alarm triggers appropriately upon unauthorized entry or shock.
4. Valet mode enables and disables correctly.
5. All programmed features respond as expected.

Troubleshooting Common Issues

If problems arise, common troubleshooting steps include:

- Rechecking all wiring connections for correct placement and secure contact.
- Ensuring the vehicle battery is fully charged and fuses are intact.
- Verifying programming settings and reprogramming if necessary.
- Testing remote batteries and signal range for communication problems.
- Consulting the manual for diagnostic LED codes or error messages.

Accurate diagnosis and correction of installation errors ensure long-term reliability of the Compustar 7900AS system.

Frequently Asked Questions

Where can I find the Compustar 7900AS installation

manual?

The Compustar 7900AS installation manual can be found on the official Compustar website under the support or downloads section, or through authorized Compustar dealer websites.

What tools are needed to install the Compustar 7900AS?

Typical tools needed include wire strippers, crimpers, screwdrivers, electrical tape, a multimeter, and possibly a drill depending on the vehicle and installation requirements.

Does the Compustar 7900AS installation manual include wiring diagrams?

Yes, the installation manual provides detailed wiring diagrams to guide proper connection of the system components to the vehicle's electrical system.

Is professional installation recommended for the Compustar 7900AS?

While the manual provides step-by-step instructions, professional installation is recommended to ensure system reliability and to avoid potential damage to the vehicle's electrical system.

How long does it typically take to install the Compustar 7900AS according to the manual?

Installation time varies depending on the vehicle and installer experience, but the manual suggests it typically takes between 2 to 4 hours for a complete installation.

Does the installation manual provide troubleshooting tips?

Yes, the Compustar 7900AS installation manual includes a troubleshooting section to help diagnose and resolve common installation issues.

Are there any vehicle compatibility notes in the Compustar 7900AS installation manual?

The manual includes compatibility notes and special instructions for certain vehicle makes and models to ensure proper installation and functionality.

How do I reset the Compustar 7900AS system if installation issues occur?

The installation manual outlines a reset procedure, typically involving disconnecting the

vehicle battery and following specific button sequences on the remote or control module to restore factory settings.

Additional Resources

1. *CompuStar 7900AS Installation and User Guide*

This comprehensive manual provides step-by-step instructions for installing and operating the CompuStar 7900AS alarm system. It covers wiring diagrams, programming options, and troubleshooting tips to ensure a smooth setup process. Ideal for both professional installers and DIY enthusiasts.

2. *Advanced Car Alarm Systems: Installation and Programming*

Focusing on advanced vehicle security systems, this book dives into the technical aspects of modern alarms including the CompuStar series. Readers will learn how to customize settings, integrate remote start features, and optimize system performance for maximum security.

3. *Car Security Systems: Installation and Maintenance*

A practical guide that covers various car alarm models with a dedicated section for the CompuStar 7900AS. It emphasizes proper installation techniques, regular maintenance, and common pitfalls to avoid to keep your vehicle protected.

4. *Automotive Electronics: A Technician's Guide*

This textbook offers an in-depth look at the electronic components used in vehicles, including alarm and remote start systems. It provides detailed explanations of sensor integration, wiring schematics, and diagnostic procedures relevant to the CompuStar 7900AS.

5. *DIY Vehicle Security: Installing Your Own Car Alarm*

Perfect for first-time installers, this book simplifies the process of adding security features to your vehicle. It includes clear illustrations, safety precautions, and specific chapters dedicated to popular models like the CompuStar 7900AS.

6. *Remote Start Systems: Installation, Programming, and Troubleshooting*

This guide focuses on remote start technology, a key feature of the CompuStar 7900AS system. It explains the installation process, programming nuances, and how to resolve common issues encountered during setup.

7. *Vehicle Security and Anti-Theft Technologies*

Exploring the evolution of car security, this book covers various technologies including keyless entry, immobilizers, and alarm systems such as the CompuStar 7900AS. It provides insights into security protocols and best practices for installation.

8. *Wiring Diagrams for Car Alarm Systems*

A specialized reference for understanding and interpreting wiring diagrams related to car alarms. It includes detailed schematics for the CompuStar 7900AS, helping installers ensure correct connections and system functionality.

9. *Mastering Car Alarm Programming*

This book is dedicated to programming car alarms for enhanced security and convenience.

It offers step-by-step instructions for programming the CompuStar 7900AS, including customizing remote controls and setting up advanced features.

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