

EASYGUARD ECC001

EASYGUARD ECC001 Universal Electric Cruise Control System Instruction Manual

Model: ECC001 | Brand: EASYGUARD

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the EASYGUARD ECC001 Universal Electric Cruise Control System. This system is designed to enhance driving comfort and efficiency in compatible vehicles.

Important Note: This cruise control system is specifically designed for DC12V vehicles equipped with a 6-wire electric throttle connector. This includes both manual and automatic transmission vehicles, as well as diesel or petrol engine types. Professional installation by a qualified car audio installer is strongly recommended to prevent potential damage to the vehicle or the product components. Prior to purchase, it is advisable to verify your vehicle's throttle wire function.

Key Features:

- Fixed speed cruise function for maintaining a set vehicle speed.
- Speed limit function to prevent exceeding a predefined speed.
- Electronic throttle output control.
- Fuel consumption reminder and average fuel consumption display.
- Digital speedometer function.
- Fatigue reminder for long journeys.
- Brake circuit fault detection tips.

2. PRODUCT COMPONENTS

The EASYGUARD ECC001 system includes the following components:

- Control Module
- Digital Display (D Display)
- Oil Throttle (Electronic Throttle Connector)
- Switch Handle (Cruise Control Lever)
- Wiring Harnesses

- 8mm Drill Bit & Screws
- Binding Wire (Cable Ties)



Figure 2.1: Overview of all components included in the EASYGUARD ECC001 kit. This image displays the control module, digital display, cruise control handle, various wiring harnesses, and installation accessories.



Figure 2.2: The cruise control switch handle, used for activating, deactivating, setting, and adjusting the cruise control speed and limit functions.



Figure 2.3: The digital display unit, which shows speed, fuel consumption, and other operational data. The display reads "000 ECON" when not active or showing specific data.

3. SETUP AND INSTALLATION

Warning: Installation of this product requires technical knowledge and experience with automotive electrical systems. Incorrect installation can lead to vehicle damage or system malfunction. It is highly recommended that installation be performed by a professional car audio installer.

3.1 Pre-Installation Checklist

- Ensure the vehicle is a DC12V system.
- Confirm the vehicle has a 6-wire electric throttle connector.
- Disconnect the vehicle's battery before starting any wiring.
- Read the entire wiring diagram carefully before beginning installation.
- Connect all ground (GND) wires first during wiring connections.

3.2 Wiring Connections

Carefully follow the wiring instructions below. Refer to the provided images for visual guidance.

Main wire harness



Programming connector



Clutch wire
(optional, only connect for manual
transmission cars)

Pink: connect with the foot brake wire

Blue: connect with foot brake switch constant 12V wire

Figure 3.1: Main wire harness detailing the programming connector and the optional clutch wire. The pink wire connects to the foot brake wire, and the blue wire connects to the foot brake switch constant 12V wire.

Main wire harness



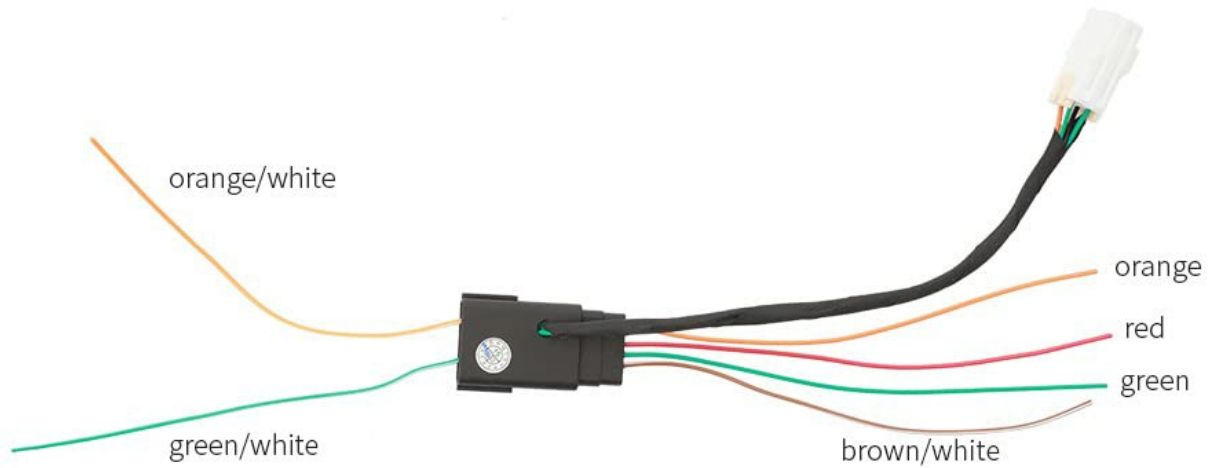
Red: To constant 12V wire

Yellow-white: car speed or gearbox signal wire

Figure 3.2: Main wire harness showing connections for power and speed signals. The red wire connects to a constant 12V source, and the yellow-white wire connects to the car speed or gearbox signal wire.

Universal Throttle connector

Please test with your vehicle throttle connector



Wiring method of the throttle connector:

The red wire connecting with any of the 5V wire from the throttle connector
brown/white: The chassis ground(0V)

Orange and orange/white are 1 group wire, which should connect with the 1st signal wires. When connection, cut the 1st signal wire in half, the accelerator pedal or gas pedal terminal connect with orange wire and the wire harness terminal connect with orange/white wire.

Green and green/white are 1 group wire, which should connect with the 2nd signal wires. When connection, cut the 2nd signal wire in half, the accelerator pedal or gas pedal terminal connect with green wire and the wire harness terminal connect with green/white wire.

Figure 3.3: Universal Throttle Connector wiring diagram. It is crucial to test your vehicle's throttle connector to ensure compatibility and correct wiring. The diagram illustrates connections for orange/white, red, green, brown/white, and green/white wires.

Detailed Throttle Connector Wiring Method:

- **Red wire:** Connect with any of the 5V wire from the throttle connector.
- **Brown/white wire:** Connect to the chassis ground (0V).
- **Orange and Orange/white wires:** These form a group wire. Connect with the 1st signal wires. Cut the 1st signal wire in half, then connect the accelerator pedal or gas pedal terminal to the orange wire, and the wire harness terminal to the orange/white wire.
- **Green and Green/white wires:** These form a group wire. Connect with the 2nd signal wires. Cut the 2nd signal wire in half, then connect the accelerator pedal or gas pedal terminal to the green wire, and the wire harness terminal to the green/white wire.

3.3 Programming

After completing all wire connections, the device requires programming before it can be used. Refer to the specific programming instructions provided in the user manual included in your package for detailed steps. This step is critical for

proper system functionality.

4. OPERATING INSTRUCTIONS

The cruise control system offers various functions controlled via the switch handle and displayed on the digital unit.

The cruise control handle



Figure 4.1: Close-up of the cruise control handle, showing the "ON/OFF", "CANCEL", "SET", "SPEED", "RESUME", and "LIMIT" buttons for system control.

4.1 Fixed Speed Cruise Function

1. **Opening and Closing:** Press the "ON/OFF" button to activate or deactivate the cruise control system.
2. **Setting Speed:** Once activated, accelerate to your desired speed and press the "SET" button. The vehicle will maintain this speed.
3. **Controlling Speed:**
 - Press "SPEED +" to increase the set speed.

- Press "SPEED -" to decrease the set speed.
- 4. **Overtaking:** To temporarily accelerate for overtaking, press the accelerator pedal. The system will resume the set speed once the pedal is released.
- 5. **Canceling:** Press the "CANCEL" button or apply the brake pedal to temporarily disengage cruise control without turning it off.
- 6. **Resuming:** After canceling, press "RESUME" to return to the previously set speed.

4.2 Speed Limit Function

1. **Opening and Closing:** Press the "LIMIT" button to activate or deactivate the speed limiting device.
2. **Setting and Adjusting Limit:** Once activated, use the "SPEED +" and "SPEED -" buttons to set your desired maximum speed. The vehicle will not exceed this speed.

4.3 Other Features

- **Electronic Throttle Output Control:** The system manages the electronic throttle for smooth operation.
- **Fuel Consumption Reminder:** Provides alerts regarding fuel usage.
- **Average Fuel Consumption:** Displays the average fuel efficiency.
- **Digital Speedometer:** The display unit functions as a digital speedometer.
- **Fatigue Reminder:** Prompts the driver to take breaks during extended driving periods.
- **Brake Circuit Fault Detection:** Provides warnings if a fault is detected in the brake circuit.

5. MAINTENANCE

The EASYGUARD ECC001 cruise control system is designed for durability and requires minimal maintenance. Keep the display unit clean and free from dust. Avoid exposing the control module and wiring to excessive moisture or extreme temperatures. Do not attempt to open or repair the control module yourself, as this may void any potential warranty and could cause damage.

6. TROUBLESHOOTING

If you encounter issues with your EASYGUARD ECC001 system, consider the following:

- **System Not Activating:**
 - Ensure all wiring connections are secure and correct, especially power and ground.
 - Verify that the system has been properly programmed after installation.
 - Check for any brake circuit fault detection warnings.
- **Incorrect Speed Readings:**
 - Confirm the yellow-white wire is correctly connected to the car speed or gearbox signal wire.
- **System Disengages Unexpectedly:**
 - Check brake pedal switch connections (pink and blue wires).
 - Ensure no loose connections in the main wiring harness.
- **"Didn't fit my vehicle" (as per user feedback):**
 - Re-verify vehicle compatibility: The system is for DC12V vehicles with a 6-wire electric throttle. If your vehicle does not meet these specific requirements, the system will not be compatible.

For persistent issues, contact customer support or a professional installer.

7. SPECIFICATIONS

Feature	Specification
Model Number	ECC001
Operating Voltage	12 Volts DC
Current Rating	80 Milliamps
Operation Mode	ON-OFF
Circuit Type	6-way
Connector Type	Screws
Contact Type	Normally Open
Mounting Type	Panel Mount
Actuator Type	Electronic
Manufacturer	ieasyguard.com
Package Dimensions	6.5 x 4.8 x 3.5 inches
Item Weight	1 Pound

8. WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your EASYGUARD ECC001 system, please contact the manufacturer directly.

- **Technical Support Email:** sales@ieasyguard.com
- **Manufacturer Website:** www.ieasyguard.com

Please retain your proof of purchase for warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question