

Rostra 250-1859

Rostra Complete Cruise Control Kit

MODEL: 250-1859 FOR KIA RIO & SOUL

Manufacturer: Rostra

1. Introduction

This manual provides essential instructions for the installation, operation, and maintenance of your Rostra Complete Cruise Control Kit, Model 250-1859. This kit is designed to add cruise control functionality to compatible Kia Rio and Soul vehicles. Please read this manual thoroughly before beginning installation or operation to ensure proper function and safety.

2. Safety Information

- Always disconnect the vehicle's battery before performing any electrical work to prevent electrical shock or damage to the vehicle's systems.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits.
- Route all wiring away from moving parts, hot surfaces, and sharp edges.
- Test the cruise control system in a safe, open area before relying on it in traffic.
- If you are not confident in your ability to perform the installation, it is highly recommended to seek professional assistance from a qualified automotive technician. Improper installation can lead to vehicle damage or unsafe operation.

3. Package Contents

Verify that all components are present in your kit:

- Cruise Control Module (Main Unit)
- Control Stalk/Switch
- Vehicle-Specific Wiring Harnesses
- Installation Hardware (e.g., wire ties)

4. Setup and Installation

Installation of this cruise control kit involves electrical connections and routing wires within the vehicle's dashboard and engine bay. Due to the complexity and vehicle-specific nature, professional installation is often recommended.

4.1. Main Control Unit



Image 1: The main control unit for the Rostra Cruise Control Kit. This module processes signals for cruise control operation.

The main control unit should be mounted in a secure location within the vehicle's interior, typically under the dashboard, away from excessive heat or moisture. Ensure adequate space for wiring connections.

4.2. Control Stalk/Switch



Image 2: The cruise control stalk switch. This component allows the driver to activate, set, resume, and cancel cruise control.

The control stalk is typically mounted on the steering column shroud. A hole may need to be drilled for proper fitment. Ensure the stalk is positioned for easy access without obstructing other vehicle controls.

4.3. Wiring Harnesses



Image 3: A primary wiring harness included with the kit. This harness connects the main control unit to various vehicle systems.



Image 4: Additional wiring harnesses for specific connections, such as to the accelerator pedal or diagnostic port.

The kit includes vehicle-specific harnesses designed to connect to the accelerator pedal and diagnostic connectors. These are often plug-and-play. However, some installations may require splicing into the vehicle's wiring for power (main power) or for clutch switch signals in manual transmission vehicles. Refer to the detailed wiring diagram provided with

your kit for precise connections.

- **Power Connection:** A main power wire typically requires a soldered connection to a fused 12V constant power source.
- **Accelerator Pedal:** Connect the harness to the vehicle's accelerator pedal sensor.
- **Diagnostic Connector:** Utilize the diagnostic connector for brake signal input, eliminating the need to tap into the brake switch directly in many cases.
- **Clutch Switch (Manual Transmission):** For vehicles with a manual transmission, additional wiring and soldering may be required to connect to the clutch switch, ensuring the cruise control disengages when the clutch is pressed.

After all connections are made, secure the control unit and route all wires neatly using the provided wire ties to prevent interference or damage.

5. Operating Instructions

Once installed, operate the cruise control system as follows:

- **Activate:** Press the 'ON/OFF' button on the control stalk to turn the system on. An indicator light (typically green) will illuminate.
- **Set Speed:** Accelerate to your desired speed. Press the 'SET/COAST' button to set the speed. The vehicle will maintain this speed.
- **Increase Speed:** While cruise control is active, press 'RES/ACC' to incrementally increase speed.
- **Decrease Speed:** While cruise control is active, press 'SET/COAST' to incrementally decrease speed.
- **Resume Speed:** After canceling, press 'RES/ACC' to return to the previously set speed.
- **Cancel:** To temporarily disengage cruise control without turning it off, lightly tap the brake pedal, press the clutch pedal (manual transmission), or press the 'ON/OFF' button again.
- **Deactivate:** Press the 'ON/OFF' button to completely turn off the cruise control system. The indicator light will extinguish.

6. Maintenance

The Rostra Cruise Control Kit is designed for long-term reliability with minimal maintenance. Periodically inspect the following:

- **Wiring Connections:** Ensure all electrical connections remain secure and free from corrosion.
- **Cable Routing:** Verify that all wires are still routed away from moving parts and heat sources.
- **Control Stalk:** Check for any physical damage or loose mounting of the control stalk.

No user-serviceable parts are inside the main control unit. Do not attempt to open or repair it.

7. Troubleshooting

If you experience issues with your cruise control system, consider the following:

- **Cruise Control Does Not Engage:**
 - Ensure the system is turned 'ON' via the control stalk.
 - Verify all wiring connections, especially power and ground, are secure.
 - Check the brake and clutch (if applicable) switch connections. A faulty or improperly connected switch can prevent engagement.

- Ensure vehicle speed is above the minimum required for cruise control engagement (typically around 25-30 mph or 40-50 km/h).
- **Cruise Control Disengages Unexpectedly:**
 - Check for loose connections at the brake or clutch switch.
 - Ensure the vehicle's electrical system is stable.
- **System Malfunctions or Smells Burnt:**
 - Immediately turn off the system and disconnect the vehicle's battery.
 - This indicates a serious electrical issue. Do not attempt to use the system. Contact Rostra customer support or a qualified technician.
- **Control Stalk Buttons Not Responding:**
 - Verify the wiring harness for the control stalk is properly connected to the main unit.
 - Inspect the stalk for physical damage.

For persistent issues, consult the detailed troubleshooting guide provided by Rostra or contact their technical support.

8. Specifications

Feature	Specification
Model Number	250-1859
Brand	Rostra
Product Dimensions (L x W x H)	28.2 x 20.1 x 5.1 Centimetres (approx.)
Item Weight	544 g (approx.)
Operation Mode	ON-OFF
Contact Type	Normally Open
Connector Type	Screw Terminals
Switch Type	Mechanical
Circuit Type	1-way
Mounting Type	Panel Mount, Surface Mount
Material	Metal (Contact Material)
UPC	847169035128

9. Warranty and Support

For warranty information, please refer to the documentation included with your purchase or contact Rostra directly. Rostra is the manufacturer of this product.

For technical support or further assistance, please visit the official Rostra website or contact their customer service department. When contacting support, please have your model number (250-1859) and purchase details readily available.

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

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