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RHUNDO RS21S

RHUNDO RS-21S 3-Way Car Cigarette Lighter Splitter User Manual

Model: RS-21S

1. Introduction

The RHUNDO RS-21S is a versatile 3-way car cigarette lighter splitter designed to expand your vehicle's power capabilities. It features a remote control unit with touch sensor switches, an LED display, and multiple safety and convenience functions. This manual provides detailed instructions for installation, operation, and maintenance to ensure optimal performance and longevity of your device.



Figure 1: RHUNDO RS-21S Main Unit and Remote Control

2. Package Contents

Verify that all items are present in the package:

- Main Unit (3 cigarette lighter sockets, 2 USB ports)
- Remote Control Touch Sensor Panel
- Power Cable with Car Plug
- Instruction Manual



Figure 2: RHUNDO RS-21S Packaging and Contents

3. Product Overview

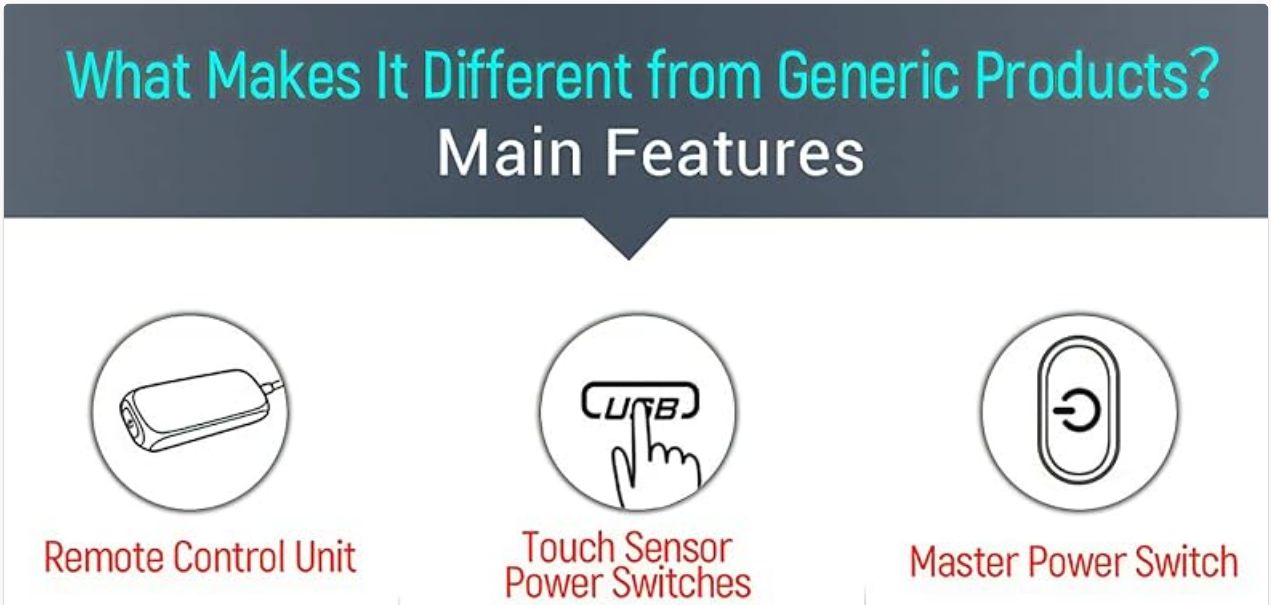
The RS-21S consists of two primary components: the main unit and the remote control unit.

3.1 Main Unit

The main unit provides three extended cigarette lighter sockets and two USB ports for charging and powering multiple devices simultaneously. It is designed to be compact and discreetly placed within your vehicle.

3.2 Remote Control Unit

The remote control unit features a touch sensor panel with individual switches for each cigarette lighter socket and the USB ports. It also includes an LED display for real-time information and a master power switch for overall control.



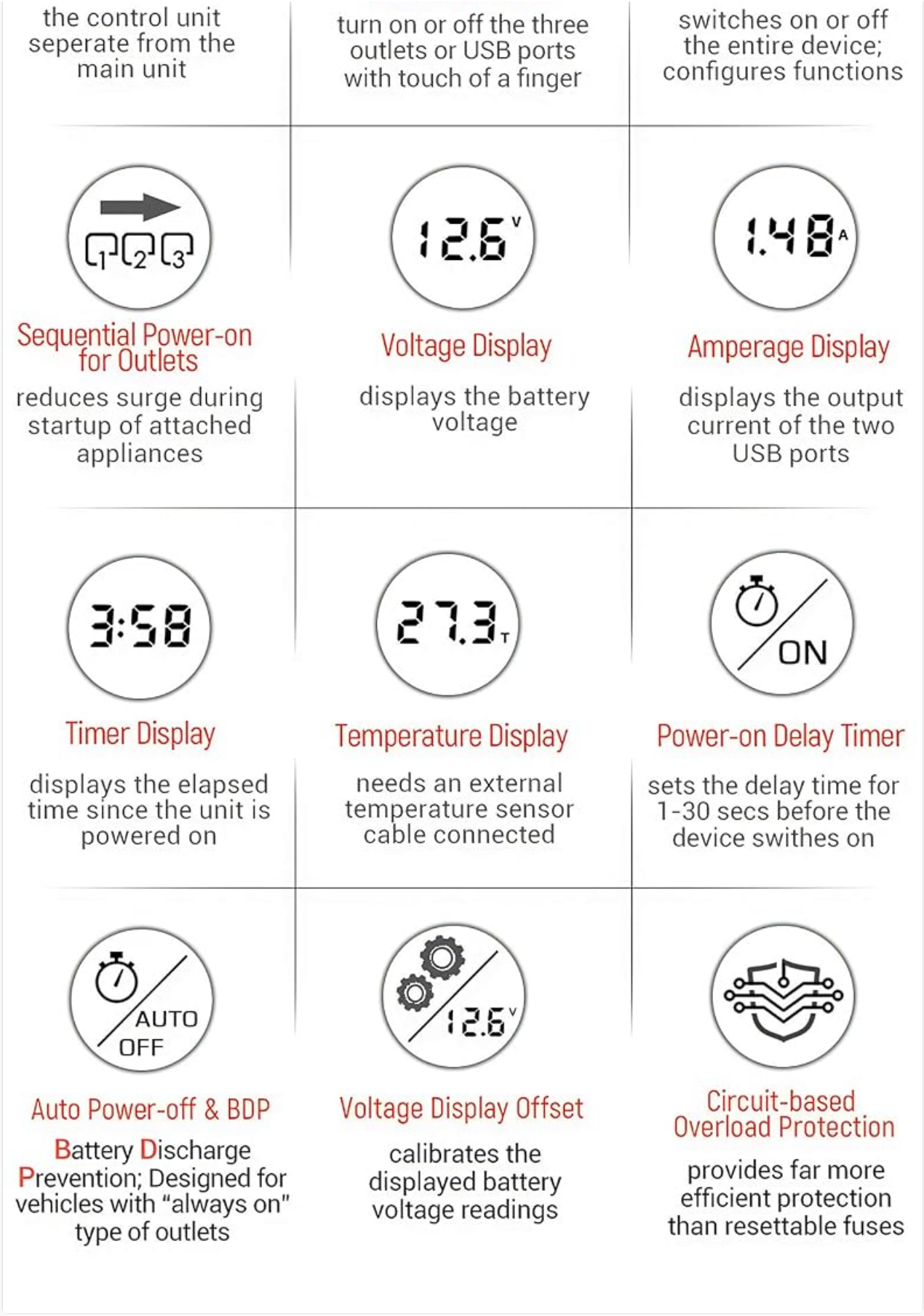


Figure 3: Main Features Overview

4. Setup and Installation

Follow these steps to install the RHUNDO RS-21S in your vehicle:

1. **Connect Power:** Insert the power plug of the main unit into your vehicle's 12V/24V cigarette lighter socket.
2. **Position Main Unit:** Place the main unit in a convenient and secure location within your vehicle, ensuring it does not obstruct driving or safety features.
3. **Position Remote Control Unit:** Mount the remote control unit in an easily accessible area, such as on the dashboard or center console, using the provided adhesive or mounting options. Ensure the cable is routed safely and does not interfere with vehicle operation.



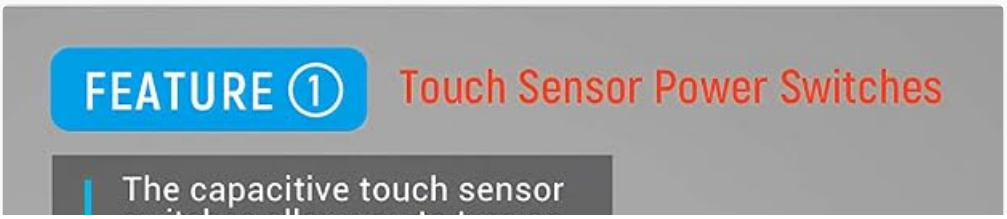
Figure 4: Example Installation in a Vehicle

5. Operating Instructions

5.1 Powering On/Off Outlets and USB Ports

The remote control unit features individual touch sensor switches for each of the three cigarette lighter sockets (labeled 1, 2, 3) and a dedicated switch for the two USB ports (labeled USB).

- To turn on an individual socket or the USB ports, simply touch its corresponding icon on the remote control unit. The icon will illuminate.
- To turn off, touch the illuminated icon again.



switches allow you to turn on or off the three outlets or USB ports with touch of a finger.



Switch No.1-3

Turn on or off the 3 outlets



Touch Sensor Power Switches



USB Switch

Turns on or off the 2 USB Ports

Adjustable Brightness





Figure 5: Touch Sensor Power Switches

5.2 Master Power Switch

The master power switch, located on the side of the remote control unit, controls the entire device. It also allows access to various settings.

- **Short Press:** Briefly press the master switch to cycle through display modes (Voltage, USB Output Amperage, Timer, Temperature).
- **Long Press (approx. 2 seconds):** Press and hold the master switch to turn the entire device ON or OFF.



Figure 6: Master Power Switch

5.3 Power Status Memory and Sequential Power-On

The RS-21S features power status memory, meaning both the individual touch sensor switches and the master power switch will remember their ON/OFF state when the device is powered off and restore to that state when powered up again.

To prevent current surges, the device implements a sequential power-on for the outlets and USB ports. When the device is powered on, the individual outputs will activate one after another, reducing stress on your vehicle's battery.

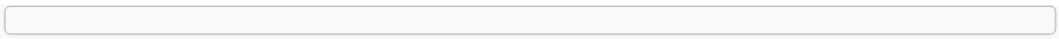


Figure 7: Sequential Power-On Feature

5.4 Adjusting Brightness

The backlight brightness of the touch sensor switches can be adjusted to 9 different levels. To adjust:

1. Press and hold the master power switch until the display shows 'L' followed by a number (e.g., L1, L9).
2. Briefly touch the '3' (up) or '2' (down) touch sensor switches to increase or decrease the brightness level.
3. Once the desired brightness is set, press and hold the master power switch again to save the setting and exit.



Figure 8: Brightness Adjustment

5.5 Display Modes

The LED display on the remote control unit can show four types of information:

- **Car Battery Voltage:** Displays the current voltage of your vehicle's battery.
- **USB Output Amperage:** Shows the current output (Amps) from the USB ports.
- **Timer:** Displays the elapsed time since the unit was powered on.
- **Temperature Reading:** (Optional) Requires an external temperature sensor (not included) to display the ambient temperature.

Briefly press the master power switch to cycle through these display modes.



Figure 9: Cycling Through Display Modes

6. Advanced Features and Settings

The RS-21S offers several advanced features to enhance safety and convenience. These are accessed through the function selection menu.

6.1 Accessing Function Menu

To enter the function selection menu:

1. Ensure the device is OFF (long press master switch).
2. Press and hold the master power switch until 'Fn.1' appears on the display.
3. Briefly touch the '3' (up) or '2' (down) touch sensor switches to navigate through functions (Fn.1 to Fn.5).
4. To select a function, press and hold the master power switch again.

6.2 Start-up Delay Timer (Fn.1)

This function sets a delay (1-30 seconds) before the device powers on after the vehicle starts. This prevents power surges during engine ignition.

1. From the function menu, select 'Fn.1'.
2. Press and hold the master power switch. The display will show 'OFF' or a number (seconds).
3. Briefly touch the '3' (up) or '2' (down) switches to set the desired delay time (e.g., 5 seconds). 'OFF' disables the delay.
4. Press and hold the master power switch to save the setting.

6.3 Automatic Power-Off Timer (Fn.2)

This function automatically turns off the device after a set period (1-120 minutes) if the battery voltage drops below a specified threshold. This is particularly useful for vehicles with 'always on' outlets to prevent battery drain.

1. From the function menu, select 'Fn.2'.
2. Press and hold the master power switch. The display will show 'OFF' or a number (minutes).
3. Briefly touch the '3' (up) or '2' (down) switches to set the desired power-off time. 'OFF' disables the timer.
4. Press and hold the master power switch to save the setting.

6.4 Battery Discharge Prevention (BDP) / Low Voltage Cut-off (Fn.3)

This feature works in conjunction with the Automatic Power-Off Timer. It defines the voltage threshold (11.0V-14.0V) at which the timer begins counting down. If the voltage remains below this threshold for the set timer duration, the device will power off.

1. From the function menu, select 'Fn.3'. (Note: Fn.3 is only accessible if Fn.2 is enabled).
2. Press and hold the master power switch. The display will show the current voltage threshold.
3. Briefly touch the '3' (up) or '2' (down) switches to adjust the voltage threshold in 0.1V increments.
4. Press and hold the master power switch to save the setting.

6.5 Voltage Display Offset (Fn.4)

This function allows you to calibrate the displayed battery voltage readings if they differ from an external voltmeter. You can adjust the offset by -0.5V to +0.5V.

1. From the function menu, select 'Fn.4'.
2. Press and hold the master power switch. The display will show the current offset value.
3. Briefly touch the '3' (up) or '2' (down) switches to adjust the offset.
4. Press and hold the master power switch to save the setting.

6.6 Temperature Unit Selection (Fn.5)

If an external temperature sensor is connected, this function allows you to switch between Celsius (°C) and Fahrenheit (°F).

1. From the function menu, select 'Fn.5'.
2. Press and hold the master power switch. The display will show '°C' or '°F'.
3. Briefly touch the '3' (up) or '2' (down) switches to toggle between Celsius and Fahrenheit.
4. Press and hold the master power switch to save the setting.



Figure 10: External Temperature Sensor Connection

7. Specifications

Feature	Specification
Model Number	RS-21S
Input Voltage	DC 10-28V
Max. Output for USB Ports	DC5V-3.4A (Total) / 2.4A (Single)
Load Capacity for Outlets	Single 6A (~72W) / Total 9A (~108W)
Display Modes	Battery Voltage / USB Output / Timer / Temperature* (*External temp sensor needed for temp display)
Ways to Switch Between Display Modes	Manually / Automatically
Power-on Delay Timer	1-30 Seconds
Auto Power-off Delay Timer	1-120 Minutes
Threshold Voltage Setting	11.0V-14.0V (with each step of 0.1V)
Temperature Display Range	-58°F ~ 248°F (-50°C ~ 120°C)
Voltage Display Offset	-0.5V-0.5V
Overload Protection for Outlets	≥90W ("HGH" displayed)
Overload Warning for USB Ports	≥3.4A (Output Amps & "HGH" alternately displayed)
Length of Main Power Cord	2.95ft (90cm)
Length of Cable for Remote	3.94ft (120cm)

8. Troubleshooting

- **Device not powering on:** Ensure the main power plug is securely inserted into the vehicle's cigarette lighter socket and the vehicle's ignition is on (if not using 'always on' outlet). Check the master power switch.
- **Individual outlets/USB not working:** Ensure the corresponding touch sensor switch is activated.
- **Battery drain:** If using with an 'always on' outlet, ensure the Automatic Power-Off Timer (Fn.2) and Battery Discharge Prevention (Fn.3) are configured correctly to prevent excessive battery discharge.
- **Inaccurate voltage reading:** Use the Voltage Display Offset (Fn.4) to calibrate the reading against a known accurate voltmeter.
- **Overload warning ("HGH" display):** This indicates that the connected devices are drawing too much power. Disconnect some devices to reduce the load.
- **Device powers off unexpectedly:** This may indicate a low battery voltage or a faulty alternator. Check your vehicle's battery and charging system. The device's voltage display can help diagnose this.

9. Maintenance

- Keep the device clean and free from dust and debris. Use a soft, dry cloth for cleaning.

- Avoid exposing the device to extreme temperatures or direct sunlight for prolonged periods.
- Ensure all connections are secure to prevent intermittent power supply.

10. Product Walkthrough Video

For a visual guide on the product's features and operation, please refer to the official product walkthrough video below:

Your browser does not support the video tag.

Video 1: RHUNDO RS-20ST Product Walk Through. This video demonstrates the features and functionality of the RHUNDO RS-21S (previously RS-20ST) car splitter, including touch sensor switches, display modes, and various settings.

11. Warranty and Support

Warranty information for this product is not explicitly provided in the available data. For specific warranty details or technical support, please refer to the product packaging or contact RHUNDO customer service directly.

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