

S-R8 Inverter Remote Control User Manual

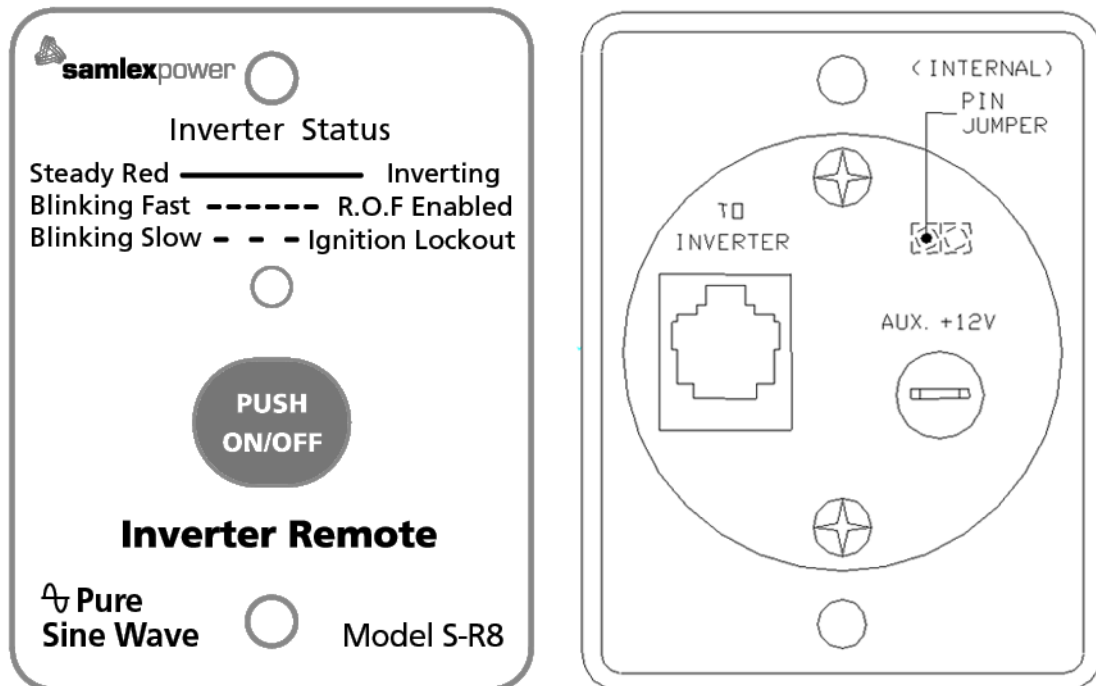
1. Features

- Allows switching on & switching off of the inverter from remote location
- Displays following status of the inverter through L.E.D. lighting pattern:
 - ✓ Inverter is ON
 - ✓ Ignition Lockout is activated
 - ✓ Reverse Over-Ride Function (ROF) is activated

2. Specification

- Input Voltage Range: 10.5 – 60 VDC based on the battery input voltage of the inverter (can be used for 12V, 24V & 48V inverters)
- Operating Temperature Range : 0 – 40°C
- Storage Temperature Range : - 30°C - 70°C
- Stand-By Current Draw : < 40mA
- Applicable Models : SA-1000K / 2000K / 3000K Series

3. Introduction



- This is a simple ON / OFF remote control.
 - ✓ Steady flashing red LED light indicates the Inverter is ON.
 - ✓ Fast flashing red LED light indicates that it is in Reverse Override Function selection status.

- ✓ Slow flashing red LED light indicates that it is in Ignition Lockout Function selection status.

- **Reverse Over-ride (ROF) and Ignition Lockout Functions**

The Recreation Vehicle Industries Association (RVIA) of America and some American states require that when a vehicle is in motion, the TV monitor should be switched off if it is in the view of the driver. Sometimes, the TV monitor is used in conjunction with a camera to enable the driver to view the area at the back of the vehicle when the vehicle is being reversed. The TV monitor should normally remain off (if it is in view of the driver) and should power on only when the gear is shifted to “reverse”. When the gear is shifted to “reverse”, a micro-switch in the reversing mechanism in the vehicle generates a “+” battery voltage signal that can be used to switch on the TV monitor. This is termed as “Reverse Over-ride Function (ROF)”. If the TV monitor is powered from the inverter, “ROF” function will enable to switch on the inverter when the vehicle is reversed and “+” battery voltage signal is fed to the Remote.

Also, some low power circuits in a vehicle are energized when the ignition switch is turned to the “Accessory” position to provide “+” battery voltage power to low power devices like radio / CD player etc (the vehicle is not running in this position and hence, high power devices should not be powered as the starter battery will get drained and the vehicle may not start). When the ignition switch is turned to the “Accessory” position, a “+” battery voltage line is available for actuating the required devices. As the inverter is a high power consuming device, it should be switched off when the ignition switch is turned to the “Accessory” position. Hence, the “Ignition Lockout” function is utilized to switch off the inverter when “+” battery voltage signal is fed to the Remote on activation of the “Accessories” circuit

In the back of the Remote Control, a ¼” male quick disconnect terminal is provided to switch on or switch off the inverter by feeding “+” battery voltage signal. A jumper is provided in the Remote Control (The jumper is accessible after opening the bottom cover of the remote control) to select either “ROF” function or “Ignition Lockout” function. The Remote Control comes preset in “ROF” position

- ✓ In the preset condition of “ROF”, when the “+” battery voltage signal from the reversing gear system is fed to the ¼” male disconnect terminal, the inverter is switched on. When the “+” battery voltage signal is removed, the inverter is switched off
- ✓ When the alternate “Ignition Lockout” function is selected (by changing the position of the internal jumper), the inverter shuts down when “+” battery voltage signal from the “Accessories” circuit is applied and switches on when the “+” battery voltage signal is removed

The wire feeding the “+” battery voltage signal to the ¼” connector for the ROF or Ignition Lockout functions should have a 0.5A fuse in series for protection.

- **Selecting ROF or Ignition Lockout Functions**

Jumper JP1 is placed inside the remote control and is used to select either **Reverse Override Function** or **Ignition lockout Function** (open the back cover for access to the jumper JP-1).

- ✓ JP1 jumper “Open” - Reverse Override Function is selected*
- ✓ JP1 jumper “Short” – Ignition Lockout Function is selected

*Please note that the default mode is **OPEN**.

- Connect the wire RJ-11 to the remote port in front of the panel.
 - ✓ Ignition Lockout function – The Ignition lockout function is to turn the Inverter OFF when the auxiliary input wiring is connected to the ACC, and “+” battery voltage signal is applied.
 - ✓ Reverse Override Function – The Reverse Override Function is to turn the Inverter ON when the auxiliary input wiring is connected to the reverse gear shift, and “+” battery voltage signal is applied.
- **Installation Procedure**
 1. Refer to the drawing (see Figure 2) for hole and cutout dimensions.
 2. Use the cable between CR8 remote and the inverter.
 3. Switch the inverter to REMO position.

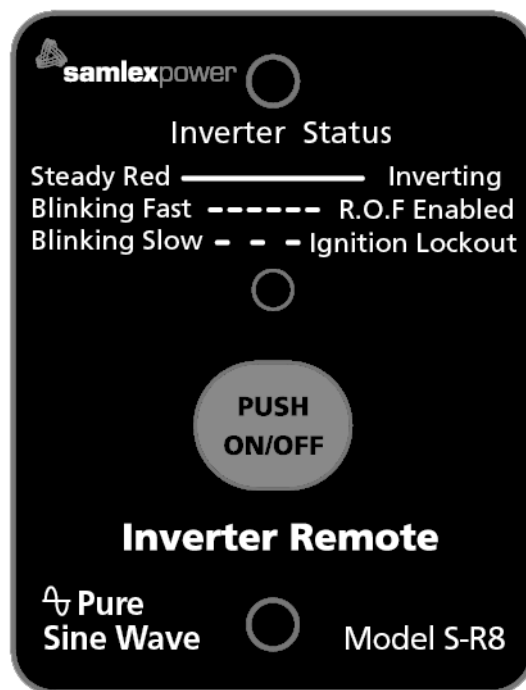
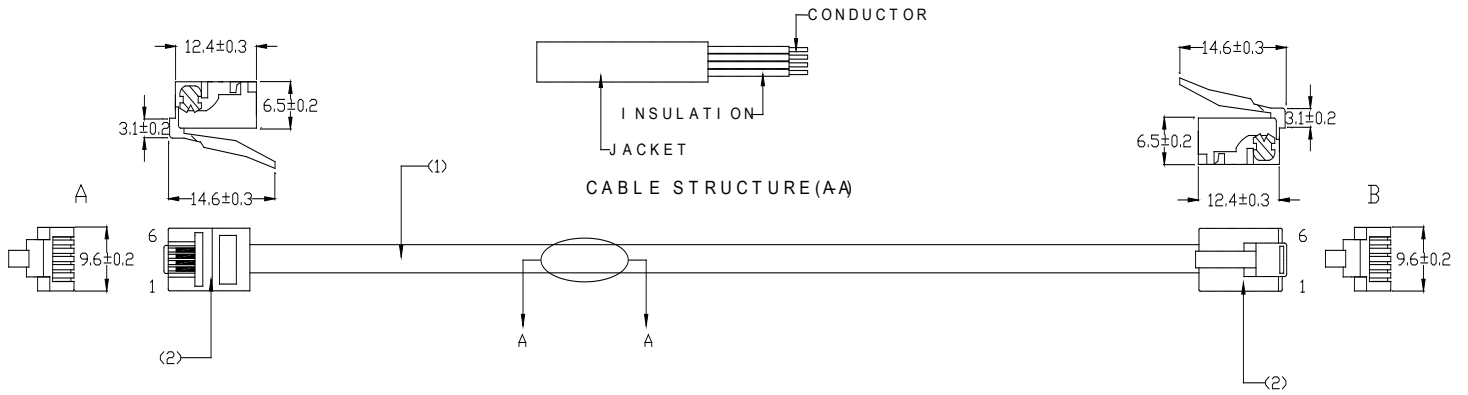
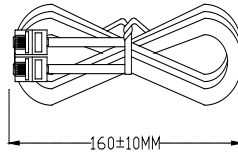


Figure 2

4. Drawings of S-R8 Remote Control Cables



A	COLOR	B
6	NC	6
5	YELLOW	5
4	GREEN	4
3	RED	3
2	BLACK	2
1	NC	1



WARNING!

DO NOT use standard telephone cable.