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› Spartan Power SpartanStart RV A/C Soft Start Kit Instruction Manual

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MODEL: SPARTANSTART

1. Product Overview

The Spartan Power SpartanStart is a soft start kit designed for RV air conditioning units up to 20,000 BTU. It enables the operation of your RV A/C with lower power sources, such as a 2200-watt power inverter or generator, without excessive battery drain. This system reduces the initial surge current required by the A/C compressor, making it more efficient and extending the life of your equipment. It features a Generator Anti-Stall & Preload function to prevent generator duress during compressor startup and provides motor reversal protection during short power outages.

Your browser does not support the video tag.

Video Description: An overview of the Spartan Power SpartanStart RV A/C Soft Starter, explaining its benefits and how it allows RV air conditioners to start with less power. This video is provided by Inverters-R-US, a seller of Spartan Power products.

2. What's in the Box

Each SpartanStart kit includes the following components:

- 1 SpartanStart Soft Starter Unit
- 6 Splice Connectors
- 1 Cleaning Wipe
- 2 Automotive Grade Mounting Tape Strips

Manufacturer	Run	Common	Start
Advent	White	Blue	Red
Atwood	White	Black	Red
Carrier	Red	Yellow	Blue
Coleman	White	Black	Red or Orange
Coleman	Yellow	Orange	Purple
Dometic	White	Blue or Black	Red
Emerson	White	Black	Orange
Frigidaire	Blue	Red	Black
Furrion	White	Blue	Red
GE	White	Black	Red
Houghton-Belaire	White	Black or Brown	Red
LG	Blue	Brown	Red
TOSAT (Go-Cool)	Blue	Red	Yellow
Truma	Blue	Red	White
SpartanStart	Blue	Black	Red

Image Description: A visual representation of the SpartanStart kit contents, including the soft starter unit, splice connectors, cleaning wipe, and mounting tape strips.

3. Setup and Installation

Installation of the SpartanStart is designed to be straightforward, typically involving three wires. Always ensure all power to the A/C unit is disconnected before beginning installation.

3.1. Preparation

1. **Disconnect Power:** Ensure all power to your RV A/C unit is completely disconnected at the breaker or power source.
2. **Access A/C Unit:** Open your A/C unit's outer cover on the roof. This usually involves removing a few screws.
3. **Identify Wires:** Locate the three wires (Run, Common, and Start) that connect your A/C compressor to its power supply. These are often found in a sheath. Refer to your A/C unit's wiring diagram for precise identification.
4. **Choose Mounting Location:** Select a mounting location for the SpartanStart unit that is close to these three wires, allowing sufficient slack for connection. Avoid areas directly exposed to extreme heat.
5. **Clean Surface:** Use the provided cleaning wipe (or Windex and a paper towel for heavily soiled areas, followed by the wipe) to thoroughly clean the mounting surface if using the adhesive strips.

3.2. Wiring Connections

The SpartanStart unit has three wires on its 'Supply' side and three wires on its 'Compressor' side. These correspond to the Run (R), Common (C), and Start (S) wires of your A/C unit.

- **Supply Side Connection:** Cut the three wires from your A/C unit's power supply. Match and connect these wires to the corresponding wires on the 'Supply' side of the SpartanStart unit.
- **Compressor Side Connection:** Match and connect the three wires from the 'Compressor' side of the SpartanStart unit to the corresponding wires leading into your A/C compressor.
- **Secure Connections:** Use the provided splice connectors to ensure secure and insulated connections.

Manufacturer	Run	Common	Start
Advent	White	Blue	Red
Atwood	White	Black	Red
Carrier	Red	Yellow	Blue
Coleman	White	Black	Red or Orange
Coleman	Yellow	Orange	Purple
Dometic	White	Blue or Black	Red
Emerson	White	Black	Orange
Frigidaire	Blue	Red	Black
Furrion	White	Blue	Red
GE	White	Black	Red
Houghton-Belaire	White	Black or Brown	Red
LG	Blue	Brown	Red
TOSAT (Go-Cool)	Blue	Red	Yellow
Truma	Blue	Red	White
SpartanStart	Blue	Black	Red

Image Description: The SpartanStart unit displaying its integrated wiring diagram, illustrating the connections for the Run (R), Common (C), and Start (S) wires on both the supply and compressor sides.

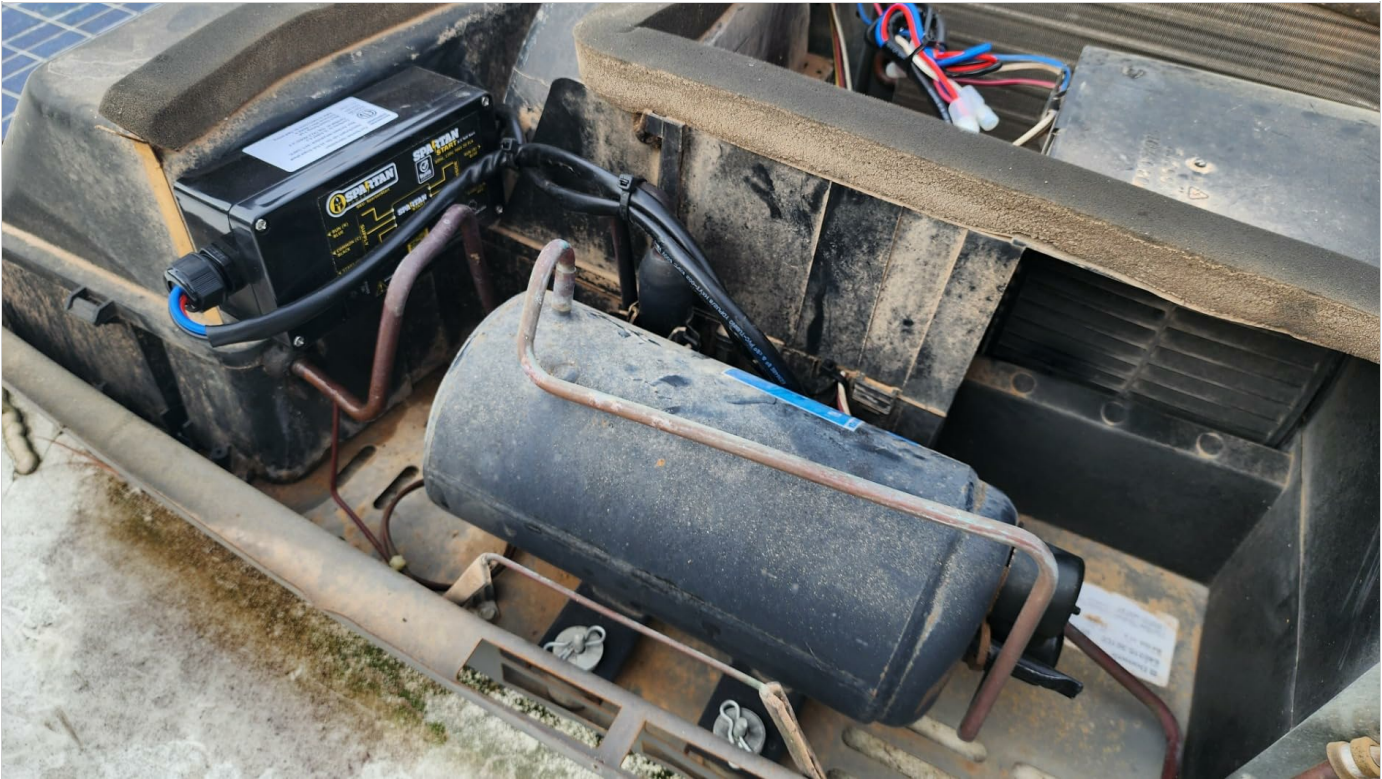


Image Description: A table listing various RV A/C manufacturers (e.g., Dometic, Coleman, Furrion) and their typical wire color codes for Run, Common, and Start connections, alongside the SpartanStart's corresponding wire colors.

3.3. Final Steps

- 1. Mount Unit:** Securely mount the SpartanStart unit in your chosen location using either the pre-drilled holes for screws or the provided automotive-grade adhesive strips.

- 2. **Replace Cover:** Once all connections are secure and the unit is mounted, replace the A/C unit's outer cover.
- 3. **Restore Power:** Reconnect power to your RV A/C unit.

For a detailed visual guide, you can scan the QR code on the unit or visit<http://bit.ly/SpartanStartManual?r=qr> for the online manual.

4. Operating Instructions

The SpartanStart operates automatically once installed. It intelligently manages the power delivery to your A/C compressor, reducing the initial current draw during startup. There are no learning cycles required; the unit functions immediately upon installation. Simply operate your RV A/C unit as you normally would, and the SpartanStart will optimize its startup performance.

5. Maintenance

The SpartanStart is designed for durability and requires minimal maintenance. Periodically inspect the unit and its connections for any signs of wear or damage. Ensure the mounting remains secure. Keep the unit free from excessive dust or debris. No internal user-serviceable parts are present.

6. Troubleshooting

If you encounter issues with your SpartanStart or A/C unit after installation, consider the following:

- **No Power/Unit Not Functioning:** Verify all power connections are secure and that the main power supply to the A/C unit is active. Check for any tripped breakers.
- **A/C Not Starting:** Double-check all wiring connections against the provided diagram and your A/C unit's specific wiring. Ensure the correct wires (Run, Common, Start) are connected to their respective terminals on the SpartanStart.
- **LED Status Lights:** The SpartanStart unit features LED status lights. Refer to the online manual for interpretation of these lights, which can indicate operational status or fault conditions (e.g., overload protection, low voltage).
- **Generator Stalling:** While the SpartanStart includes an anti-stall feature, ensure your generator is adequately sized for the A/C unit's running wattage. If issues persist, contact support.

If troubleshooting steps do not resolve the issue, please contact Spartan Power customer support for assistance.

7. Specifications

Model	SpartanStart
Voltage	120 Volts (AC)
Wattage	2200 watts (Max)
Capacity	Up to 20,000 BTU (1.6 Tons)
Item Weight	1.57 pounds
Product Dimensions	9.75 x 5 x 3.5 inches
Installation Type	Simple (3 wires)
Special Features	3 Year Warranty, Generator Anti-Stall, Hassle-free Installation, No Learning Cycles

8. Warranty and Support

The Spartan Power SpartanStart comes with a **Three Year Warranty**, ensuring reliability and peace of mind. For any installation questions, technical support, or warranty claims, live phone assistance is available directly from Spartan Power in the United States.

Contact Information:

Website: spartanpower.com

Phone: 775-800-1725

It is important to note that this is an electrical device. If you are uncertain about any part of the installation process after reviewing this manual and safety warnings, please contact customer support. They are available to help answer your questions and ensure a safe and correct installation.

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