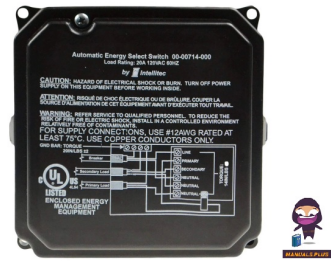


Intellitec
00-00714-000
Automatic Energy
Select Switch



Intellitec 00-00714-000 Automatic Energy Select Switch User Manual

[Home](#) » [Intellitec](#) » Intellitec 00-00714-000 Automatic Energy Select Switch User Manual 

Contents

- [1 Intellitec 00-00714-000 Automatic Energy Select Switch](#)
- [2 Product Usage Instructions](#)
- [3 HOW IT WORKS](#)
- [4 Installation Instructions](#)
- [5 Trouble Shooting](#)
- [6 WIRING DIAGRAM](#)
- [7 FAQ](#)
- [8 Documents / Resources](#)
 - [8.1 References](#)

Intellitec

Intellitec 00-00714-000 Automatic Energy Select Switch



Product Specifications:

- **Part Numbers:** 00-00714-000 / 00-00714-100
- **Manufacturer:** Intellitec
- **Model:** Automatic Energy Select Switch
- **Power Source:** Shore power cord
- **Operating Voltage:** Lethal voltages present

Product Usage Instructions

How It Works:

The Automatic Energy Select Switch (AESS) controls the power supply based on the current drawn by the primary load. Here's how it operates:

- If the primary load draws less than 3 amps, power will be supplied to the secondary load after a 45-second delay.
- If the primary load draws more than 3 amps, power to the secondary load will be removed until 45 seconds after the primary load is off.

Servicing the Unit:

Important safety precautions and steps for servicing the unit:

- Ensure all power is off before removing the cover.
- Only qualified Service Technicians should service the unit.
- To remove the cover, unscrew the center bottom screw and gently lift the latches on either side.
- All connections will be visible once the cover is removed.
- If the unit is not working, replace the entire unit as there are no serviceable components.

Hi-POT Test:

Steps for conducting a Hi-POT test on the installation:

- Black lead adjustments may be required based on the model being installed (00-00714-000 or 00-00714-100).
- Conduct the Hi-POT test according to standard procedures.
- Once the test is passed, ensure all connections are restored to their normal positions.

Intellitec's Automatic Energy Select Switch (AESS) is designed to be used in RVs to share the power available from a single circuit breaker between two large loads (up to 20 amps). The AESS applies power to both appliances until the primary load draws current. It then removes power from the secondary load to prevent the circuit breaker from being overloaded. This function is particularly useful for sharing power between the microwave oven and another "shed-dable" or postpone-able appliances, such as the washer/dryer, or water heater. Typically, this function was performed with selector switches, forcing the owner to manually switch between the two appliances.

WARNING:

The Automatic Energy Select Switch operates from shore power cord. Lethal voltages are present inside this box. Before removing the cover, be sure the coach is disconnected from shore power and the generator is not operating.

All servicing of this box should be done only by a qualified Service Technician.

Tools required: Line voltage test light, AC voltmeter

HOW IT WORKS

The AUTOMATIC ENERGY SELECT SWITCH (AESS) senses the current drawn by the primary or "on demand" load and controls the power to the secondary or "shed-able" load. When the power is initially applied, and the primary load is drawing less than 3 amps, power will be supplied to the secondary load after an initial 45 second delay. If the primary load draws more than 3 amps, power to the secondary load will be removed and held off until 45 seconds after the primary load is off.

SERVICING THE UNIT

There are no serviceable components in this unit. If it is not working, replace the entire unit. To remove the cover from the unit, remove the screw at the center bottom of the cover. Before removing the screw, be sure all power is off. Gently lift the latches on either side of the cover and remove it. The connections to the unit will all be visible. (See Figure 1.) Remove all six wires from the board. The board can be removed from the box by removing the two mounting screws.

WARNING:

The Automatic Energy Select Switch operates from shore power cord. Lethal voltages are present inside this box. Before removing the cover, be sure the coach is disconnected from shore power and the generator is not operating.

All servicing of this box should be done only by a qualified Service Technician.

Tools required: Line voltage test light, AC voltmeter

Hi-POT TEST:

- At the installers preference, to assure there are no potential shorts, a Hi-Pot test can be performed on the installation. If installing a 00-00714-000, the black lead from the Secondary Load must be moved to the terminal with the black lead to the primary load. If installing a 00-00714-100, no wires need to be adjusted
- The Hi-Pot test should now be conducted in accordance with standard procedures for the tester being used. Assuming the system passes, if installing the 00-00714-000, the cover should be taken off and the lead moved

back to its normal connection point. If not, the problem must be corrected before proceeding further.

Installation Instructions

1. Ensure power to the breaker panel is off.
2. Take off unit lid by removing screw and expanding clips on either side.
3. Feed wire from breaker panel through left most strain relief on side of enclosure.
 1. Ensure enough cable is pulled through to allow for wire stripping and routing.
4. Cut back outer insulation, exposing white, black and green wires.
5. Strip insulation of white, black and green wires.
6. Insert black wire into screw terminal location marked as "LINE" on the PCB.
7. Torque screw terminal of wire per product data sheet.
8. Insert white wire into left most screw terminal location marked as "NEUT" on the PCB.
9. Torque screw terminal of wire per product data sheet.
10. Move green wire out of the way temporarily.
11. Feed wire from secondary load through middle strain relief on side of enclosure.
 1. Ensure enough cable is pulled through to allow for wire stripping and routing.
12. Cut back outer insulation, exposing white, black and green wires.
13. Strip insulation of white, black and green wires.
14. Insert black wire into screw terminal location marked as "LOAD2" on the PCB.
15. Torque screw terminal of wire per product data sheet.
16. Insert white wire into middle screw terminal location marked as "NEUT" on the PCB.
17. Torque screw terminal of wire per product data sheet.
18. Move green wire out of the way temporarily.
19. Feed wire from primary load through right most strain relief on side of enclosure.
 1. Ensure enough cable is pulled through to allow for line wire (black) can be fed through current sense loop then into screw terminal as shown in datasheet.
 2. Black wire will be longer than white and green wires.
20. Cut back outer insulation, exposing white, black and green wires.
21. Strip insulation of white, black and green wires.
22. Insert black wire into screw terminal location marked as "LOAD1" on the PCB.
23. Torque screw terminal of wire per product data sheet.
24. Insert white wire into right most screw terminal location marked as "NEUT" on the PCB.
25. Torque screw terminal of wire per product data sheet.
26. If installing 00-00714-000 units, insert each of the green wires into the open terminals of the neutral bar and torque screws to torque requirement as illustrated in datasheet.
27. If installing 00-00714-100 units, use provided wire nut or Wago connector to tie green wires together.
28. Organize wires such that the lid can be installed back onto unit.

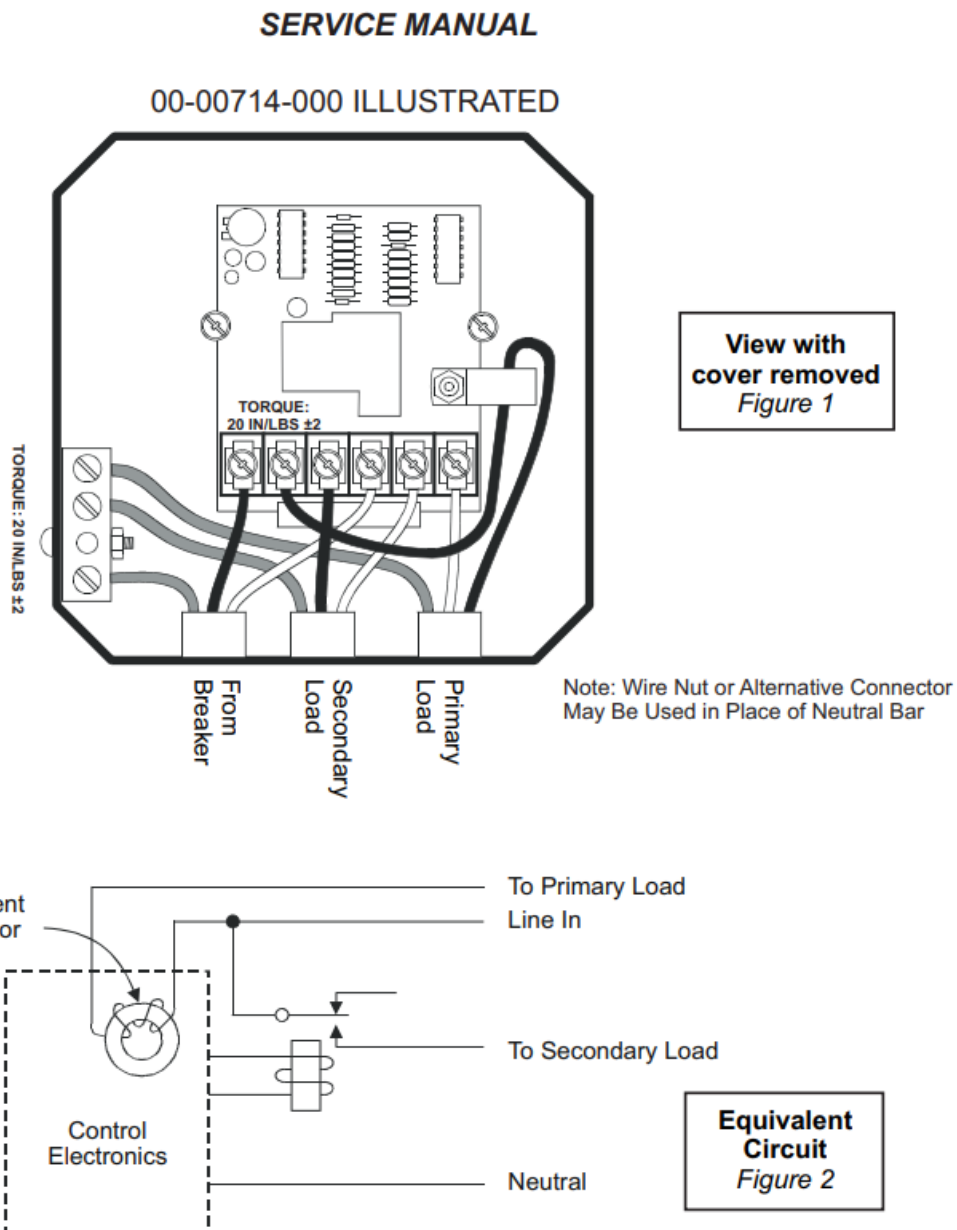
Trouble Shooting

The Select Switch is a simple circuit which senses the current of the primary load and utilizes a relay to switch the secondary load, if the primary load draws more than 3 amps.

Problem: Possible Cause/Solution

- **Neither load will operate.**
 - The circuit breaker in the distribution box for the loads is tripped. Reset the circuit breaker.
 - Both loads are turned off. Check the switch settings of the loads.
- **The secondary load will not operate.**
 - The secondary load may be turned off. Check the switch settings of the secondary load.
 - The AESS is defective.

WIRING DIAGRAM



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FAQ

Q: What tools are required for servicing the Automatic Energy Select Switch?

A: Line voltage test light, AC voltmeter


Q: Can I service the unit myself?

A: No, all servicing should be done by a qualified Service Technician due to the presence of lethal voltages.

Q: How does the Automatic Energy Select Switch prioritize power supply?

A: The switch supplies power to the secondary load if the primary load draws less than 3 amps, with a delay if more power is drawn.

Documents / Resources

	<p>Intellitec 00-00714-000 Automatic Energy Select Switch [pdf] User Manual</p> <p>00-00714-000 Automatic Energy Select Switch, 00-00714-000, Automatic Energy Select Switch , Energy Select Switch, Select Switch, Switch</p>
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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