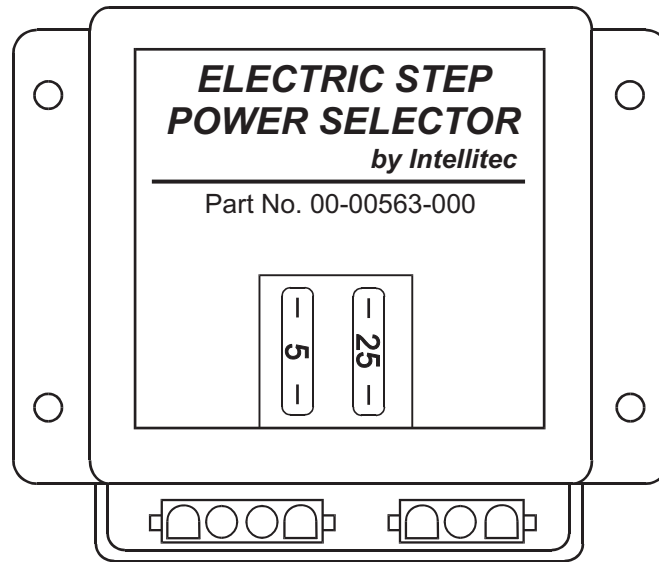


ELECTRIC STEP POWER SELECTOR

SERVICE MANUAL



Part Number: 00-00563-000

PRODUCT DESCRIPTION

The Electric Step Power Selector is intended to be used on a motor home to supply power to an electric step, such as a Kwikiee Step. Ideally, the electric step on a motor home would be powered from the coach battery so that it's use doesn't discharge the chassis battery. However, if the coach battery is dead or disconnected, the step will fail to operate.

To prevent this from happening, the Power Selector connects to both the chassis and coach batteries to provide power primarily from the coach battery, but when that battery is low or missing, it provides power to the step from the chassis battery.

CAUTION:

The ELECTRIC STEP POWER SELECTOR is an electronic switching module used to select which battery will supply power to the electric step of the motor home. Power from the batteries of the vehicle is available at the connections of this module. Inadvertent shorts at this module could result in damage and/or injury.

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

Tools required: Low current test light.

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The Power Selector operates by monitoring the voltage on the coach battery. As long as that voltage is above 11.2 volts, the power to the step will be supplied from the coach battery. If the voltage falls below 11.2 volts, the Power Selector will provide power to the step from the chassis battery. When the coach battery voltage rises above 12.1 volts, the Power Selector will again provide power to the step from the coach battery.

Whenever the ignition is on, the Power Selector will automatically supply the power from the chassis battery.

How It Works

The Power Selector supplies power to the three power inputs (power, switch, and ignition) to the electric step to assure proper voltages to all these inputs. When power is applied to the coach battery input of the Power Selector, a SPDT relay is used to select which battery will supply battery power to the step. Electronic circuitry is used to reduce the amount of current drawn by this relay to conserve battery power. The Power Selector then checks to see if the kill switch is switched on. If it is switched off, the relay is turned off to conserve battery power. If the kill switch is turned on, the relay will be pulled in again.

To conserve the battery power, the Power Selector senses the current drawn by the indicator light in the Step On/Off switch and turns off the relay if the switch is turned off.

The Power Selector operates by monitoring the voltage on the coach battery. As long as this voltage is above 11.2 volts.

Checking the Operation

To check the operation of the Power Selector, disconnect the chassis battery and operate the electric step by opening and closing the door. The step should operate normally. If not, check the voltage of the coach battery at the Power Selector. It should be above 11.2 volts.

Re-connect the chassis battery and disconnect the coach battery. Check the operation of the electric step. It should operate normally.

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Trouble Shooting

The step fails to operate.

- Check the fuses in the Power Selector. Replace if necessary. Check the fuses in the Battery Control Center.

The step always operates from the chassis battery.

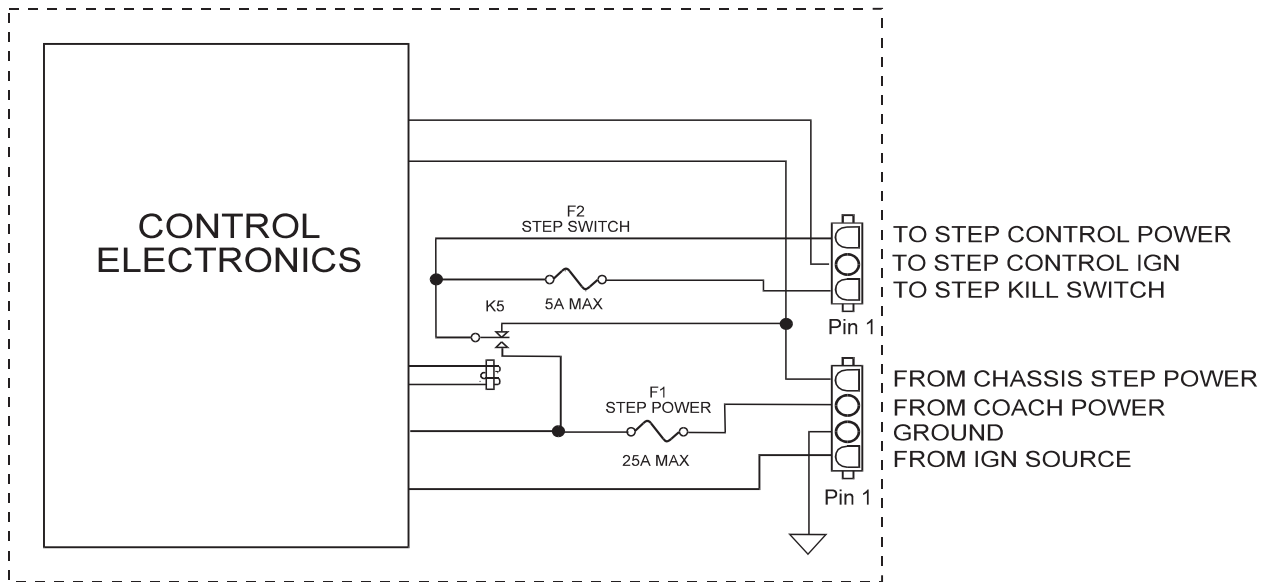
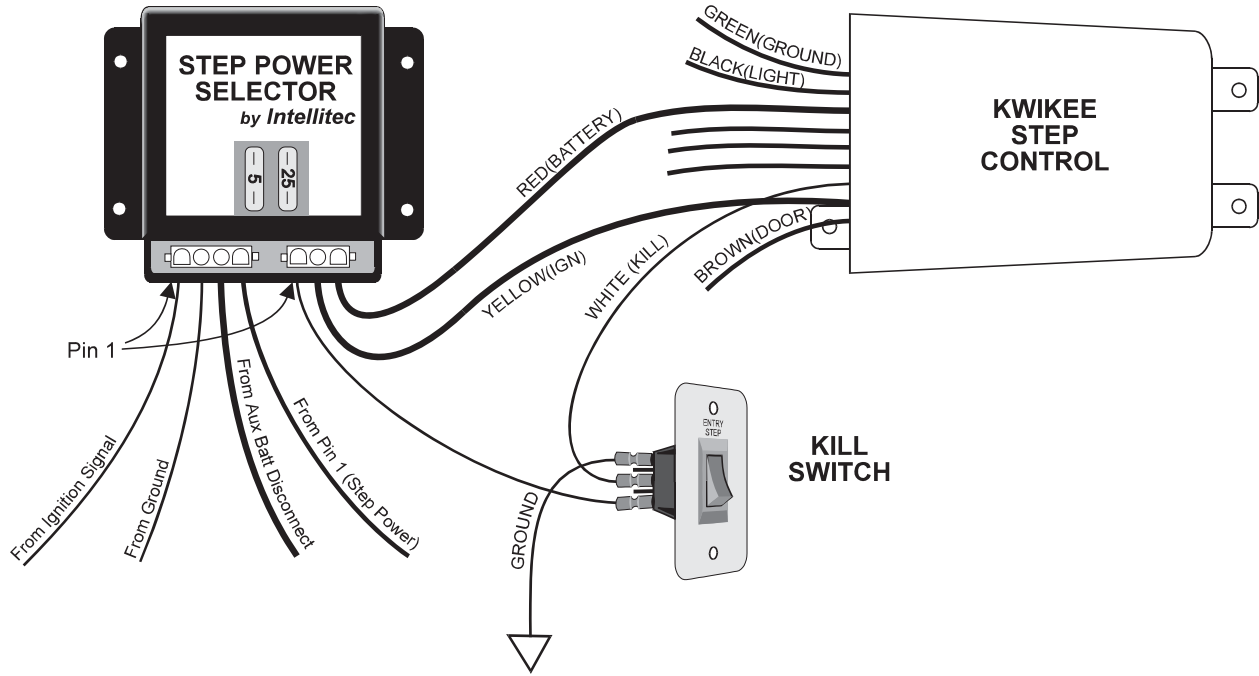
- The indicator light in the switch is burned out. Replace the switch.

The step operates only when the ignition is turned on. Indicator light in switch doesn't come on.

- Check the 5 Amp fuse in the Power Selector.

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Typical Wiring Diagram

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