Go Power! Owner's Manual

GP-TS Transfer Switch

1.0 Warnings

Avoid All Electrical Hazards. Disconnect batteries and electrical system from 120/240 VAC, or any other power source of electrical power, before attempting to install your **Go Power! GP-TS Kit**.

Observe proper polarity throughout the GP-TS Kit installation.

Work Safely. Do not wear jewelry when working with electrical or mechanical equipment. Use protective eyewear, gloves and apron when working with batteries or power tools. Use extreme caution when on ladders or a roof.

Follow the Safety Precautions of the battery manufacturer. Do not produce sparks when working in locations where flammable gases or vapours exist. Shield skin and eyes from battery acid. If skin, eyes or clothing comes in contact with acid, rinse thoroughly with water.

*Avoid electrical shock. Make sure all sources (inverter, shore power, generator) are disconnected.

2.0 Installation Overview

The TS-30 is a two-pole 30 Amp AC Switch that automatically connects shore power (when available) to your vehicle load center (breaker panel). If you unplug from shore power, it then connects your inverter output to power your circuits. The GP-TS includes a cable with built-in plug to connect the inverter output, and a receptacle that powers your converter only when shore power is available.

Congratulations on becoming the owner of a GP–TS Kit. Please read and understand all instructions before installing your new product for the easiest and safest installation. Before installing the kit, review the installation design with this DC Kit Installation Manual. Contact your Authorized GP Dealer if in doubt as to this kit's suitability or compatibility with your system. Retain this guide for future reference.

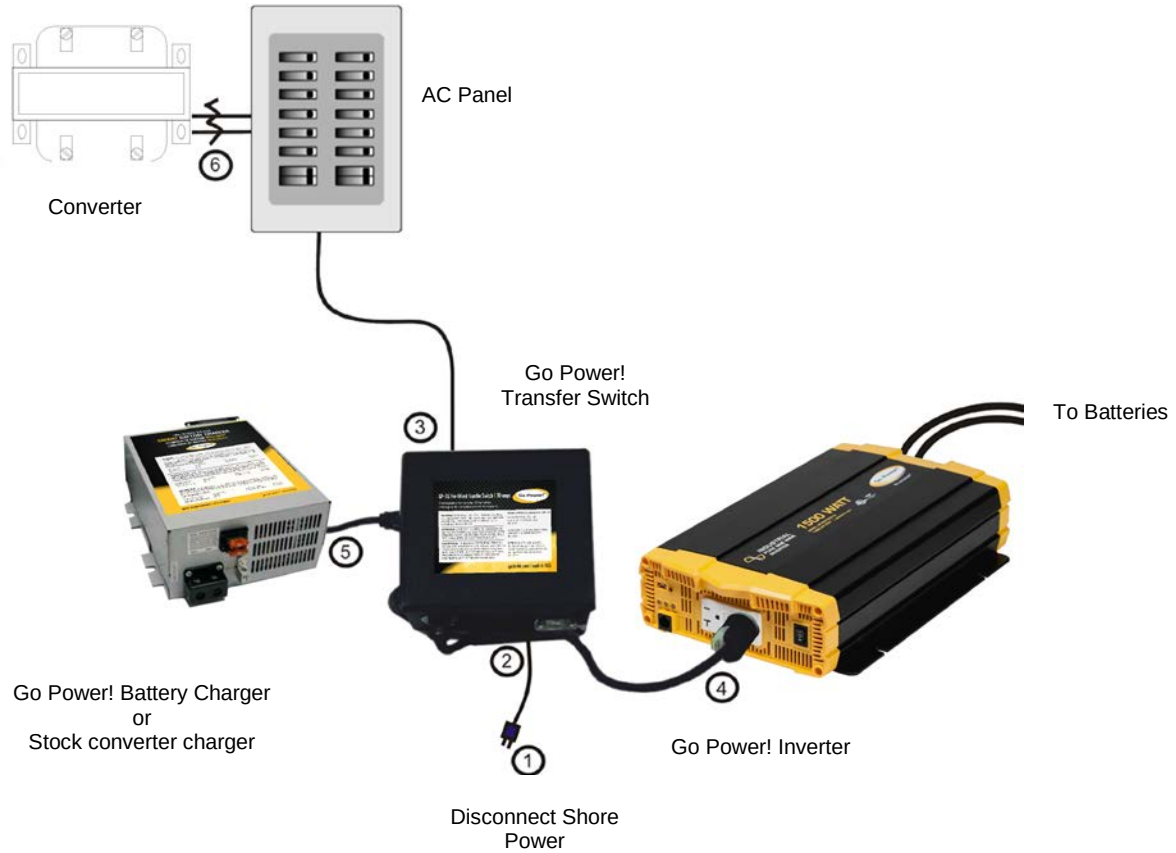
2.1 *Disclaimer of Liability & Warranty*

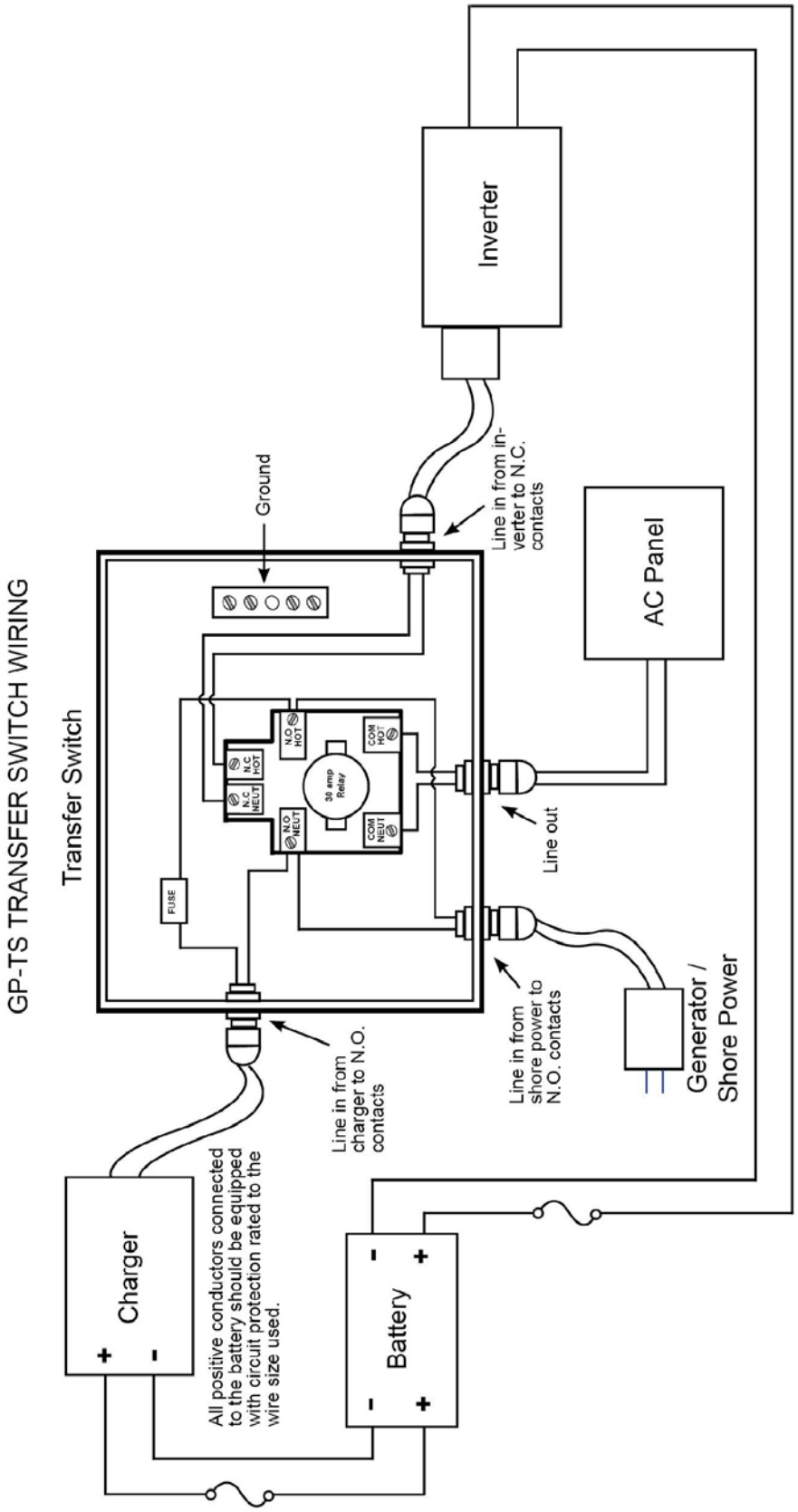
The conditions or methods of installation, operation, use and maintenance of this kit are beyond the control of Go Power! and Go Power! does not assume responsibility and expressly disclaims liability for loss, damage, or expense arising from, or in any way connected with such installation, operation, use, or maintenance. **Go Power! Inc does not cover labour or shipping for items returned.**

3.0 Installation

1. Ensure the shore power plug is not connected to shore power and batteries are disconnected.
2. Connect the RV shore power cord to Go Power! Transfer Switch input: wires are labeled "Shore Hot" and "Shore Neutral". Connect ground wire to provided ground bonding block.
3. Connect transfer switch output to AC power panel. (Use terminals labeled "AC Panel").
4. Plug supplied inverter power cord into inverter. (With inverter power switch "off" or disconnect inverter from the battery.)
5. Plug Go Power! Battery Charger into transfer switch female outlet and connect to batteries. (When using a stock converter charger, remove the AC connections from the breaker panel and add a male plug to connect with the transfer switch female outlet.)
6. Disable converter when using a stand-alone charger.

3.1 *Installation Diagram*





If the inverter supplies power to the AC panel which in turn provides power to a converter, the resulting battery loop will quickly drain the batteries. Disconnect the converter entirely from the system or rewire the converter to the N.O. contacts of the transfer switch. Make sure there is an AC fuse in line to protect the circuit.

It is fine to connect multiple charging sources to a battery however the combined amperage should not exceed the manufacturer's maximum recommended charge rate.

Specifications subject to change.
Diagram is recommended wiring only.
Refer to wiring diagram on lid of transfer switch.
Compliance with governing electrical code is assumed.

In no event will Carmanah be liable to any party or for any direct, indirect, special or other consequential damages resulting from use of this diagram.

www.gpelectric.com

Technical Support: techsupport@gpelectric.com | gpelectric.com/category/support

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