

# Commander 350 Model# CDR-350 Installation & Instruction Sheet

## Specifications:

Size : 6.0"L x 3 1/4"W x 4"D  
Operating Input Voltage: 9 – 16VDC  
Off State Current Draw : 20mA  
Output Current Ratings : 300Amp peak switching current  
: 200Amp continuous  
Operating temperature : -40°C - +185°C

## Features:

- ✓ 200 Amp Continuous Duty Rating
- ✓ 300 Amp Peak Rating
- ✓ Selectable 5 Minute Shut-Down Timer
- ✓ Selectable Ignition Interlock
- ✓ Vstart Technology
- ✓ Compact and Rugged Construction
- ✓ Simple to Install and Configure

## Electrical Connections: (See reverse side)

*Caution: Prior to making any electrical connections, remove the NEG. (ground) terminal from the vehicle's battery.*

Connections to the unit consist of two 3/8" bolts labeled Power In and Power Out, and a color-coded 22 AWG 5-conductor wire harness.

### **Power Connections:**

**Power In** – This connection is a 3/8" bolt that is used to bring power into the unit. A high current cable should be used to connect this bolt to either the +12VDC battery terminal or the alternator output.

**Power Out** – This connection is a 3/8" bolt that is used to deliver +12VDC to the vehicle. The Power Out bolt is switched on (+12VDC) and off by the control inputs in the 5-conductor harness described below.

### **5-Conductor Harness:**

- 1) Black – *Ground Input*. Connect to battery Negative terminal.
- 2) White – *Ignition input*. Connect to a source that will provide +12VDC when the vehicles Ignition is on and will activate the unit.

- 3) Red – *Positive Enable*. Connect to an on/off switch that will provide a +12VDC signal to cause 5-minute timer to start when ignition is removed.
- 4) Brown – *Negative Enable*. Connect to an on/off switch that will provide a ground signal to cause 5-minute timer to start when ignition is removed.
- 5) Green – *Ignition Cancel*. Connect to a ground signal to disable the ignition interlock and the 5-minute timer features.

## Device Operation:

**Turning on the Unit:** The unit can be activated by either a +12VDC signal to the *Positive On* (Red wire) or a Ground signal to the *Negative On* (Brown wire).

**Ignition Interlock Feature:** If the unit is already on as described above and then the ignition signal is applied, the unit will remain on even if the *Positive* or *Negative On* inputs are removed. This feature prevents the unit from being turned off if the ignition is on.

**5 Minute Timer Feature:** With the unit on and the Ignition off, if the *Positive* or *Negative On* inputs are on for longer than 5 minutes the unit will automatically turn off.

**Ignition Cancel Feature:** If a ground signal is permanently applied to the *Ignition Cancel* (Green wire), the Ignition Interlock and the 5-Minute Timer features will be disabled. The unit will turn on and off with the *Positive* or *Negative On* inputs and ignore the Ignition input.

### **System LEDs:**

*Green LED* - The System On LED will be on steady any time the unit is active.

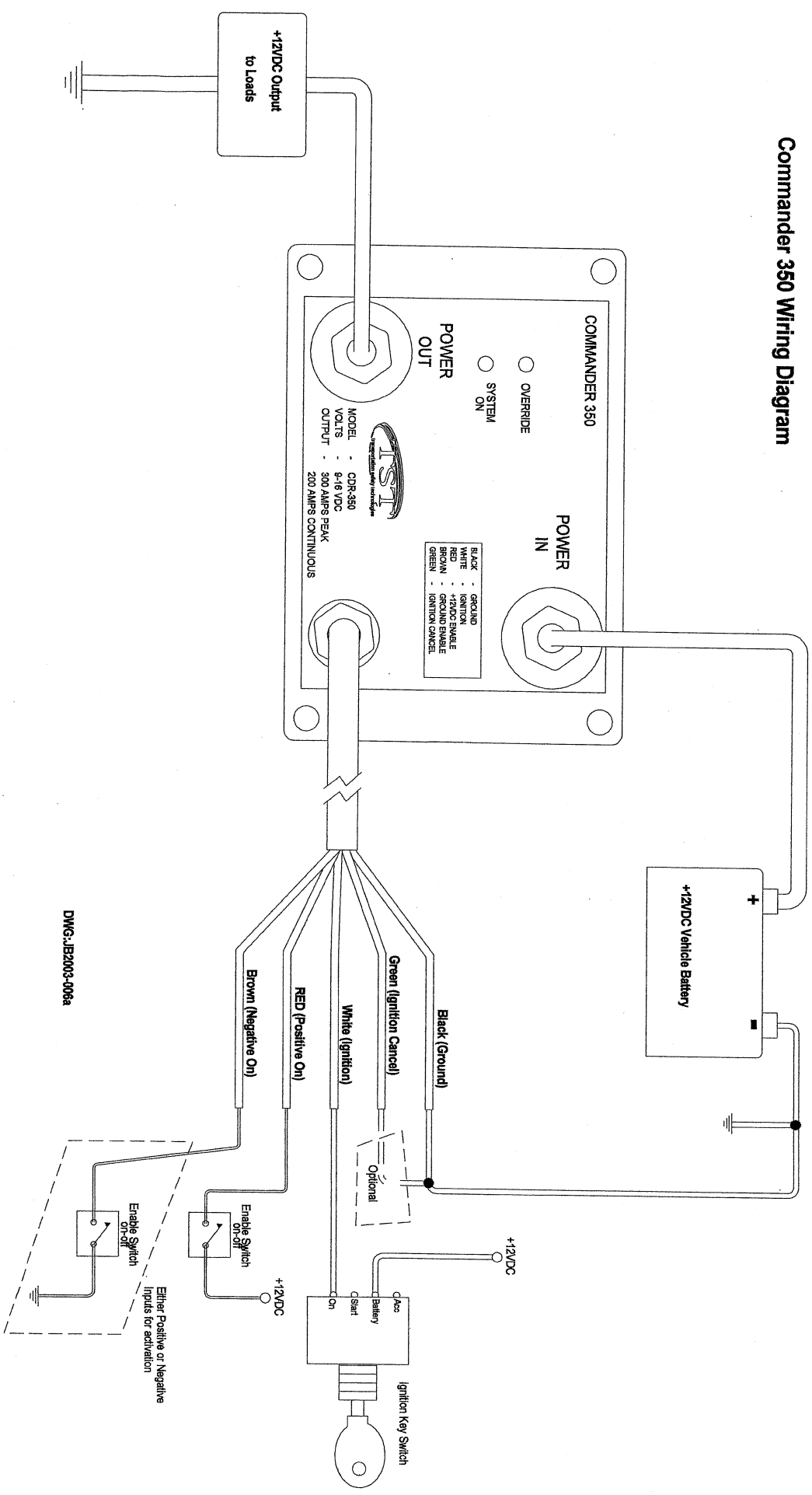
*Red LED* - Whenever the unit is in the 5-minute shutdown period the Override LED will blink. If Ignition is turned on or the *Ignition Cancel* input is grounded the LED will be off.



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# Commander 350 Wiring Diagram



DWG-JE2003-006a