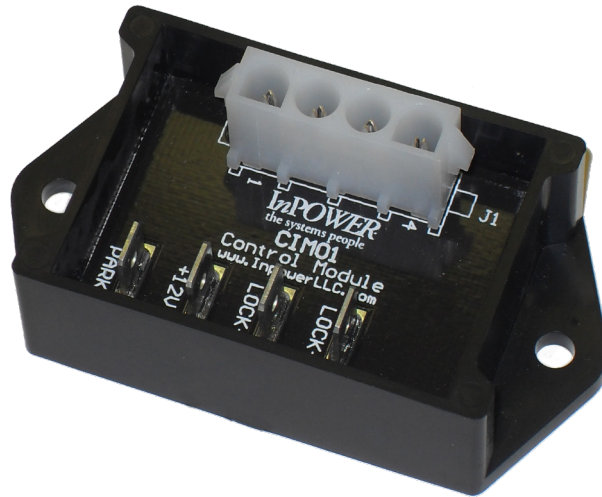


OWNERS MANUAL

InPower Model CIM1 and CIM1F

Chassis Interface Modules for Ford Vehicles



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1. Introduction

This product is for use in Ford E-Series & F-Series chassis. It provides an Enable output signal (+12 Volt @ 2 amps) when the Shifter is in Park and the Ignition is on. Two Lock inputs are provided so that when either input is activated the transmission will be locked in the Park position. One input is activated by a +12 volt signal (Lock +), and one is activated by a ground signal (Lock -). The model CIM1 supports 2009+ Ford E-Series chassis. The model CIM1-F supports the 2008+ Ford F-Series chassis.

The installation must comply with SAE (Society of Automotive Engineers) and Ford Motor Company electrical wiring procedures.

2. Product Description

The CIM1 consists of a control module and chassis interface wiring harness. It contains one connector for interfacing to the chassis interface wiring harness. The chassis interface harness contains one “plug and play” tee-cable that connects to the shift lock solenoid (located under the dash). The module has 1/4 inch fast-on terminals for the +12 volt power input, the two LOCK inputs, and the PARK output.

3. Installation Procedures

3.1 Safety Precautions



This product has been designed and manufactured to meet the intended application requirements and specifications. Any modifications to the product or to the installation procedure can be dangerous and will void InPower's warranty

- Read and understand the instructions in this manual and other manuals before starting the installation.
- Make sure that the vehicle battery power is disconnected during the installation.
- Reconnect the battery when the system installation is complete.
- Wear appropriate safety equipment, such as protective eyeglasses, face shield and clothing when installing equipment and handling the battery.
- Be careful when working near a battery. Make sure that the area is well ventilated and that there are no flames near the battery. Never lay objects on the battery that can short the terminals together. If battery acid gets in your eyes, immediately seek first aid. If acid gets on your skin, immediately wash it off with soap and water.

3.2 Getting Started

This manual provides instructions for installing the InPower Model CIM1 and CIM1F in a Ford E-Series or F-Series chassis. It is important that you follow these instructions carefully and contact InPower if you need assistance or more information. Note that product technical documents are available on InPower's web site.

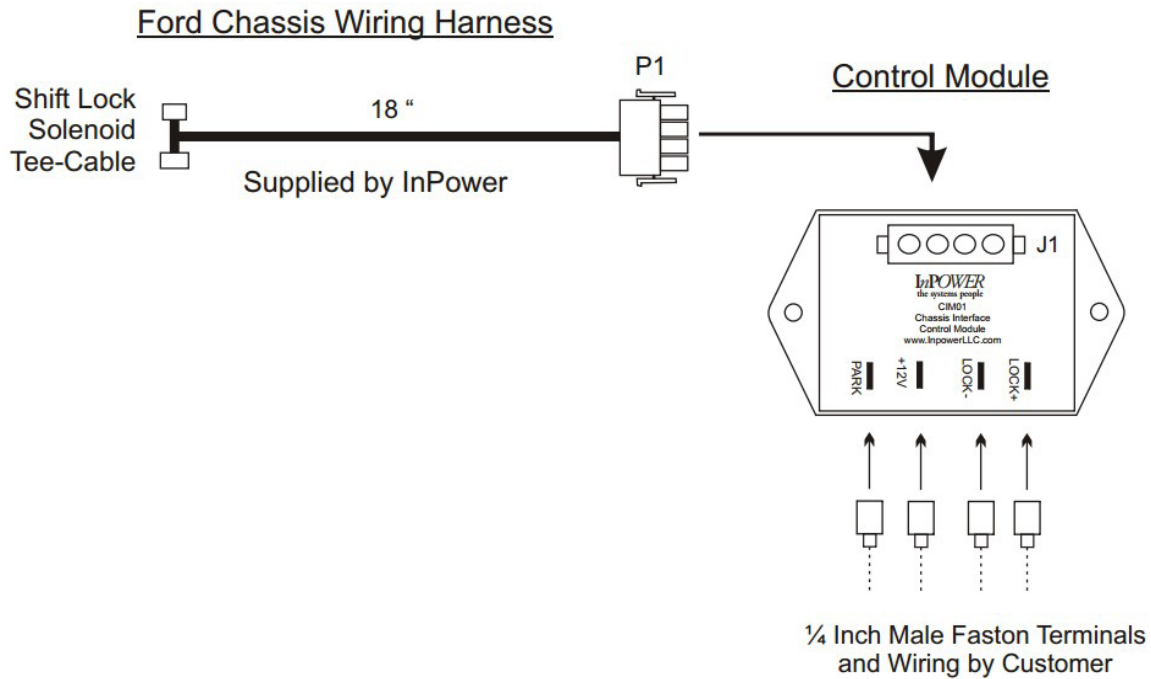
This chassis interface system installation requires additional parts and materials that are not supplied with the interlock product. Identify all required parts before starting the installation and ensure that these items are the correct type and quality.

The unit must not be located in the engine compartment or any location that is not protected from the environment. The recommended mounting location for the CIM1 and CIM1F interface module is under the dash, to the left of the steering column due to the proximity of the wiring connections.

4. System Circuit Diagrams

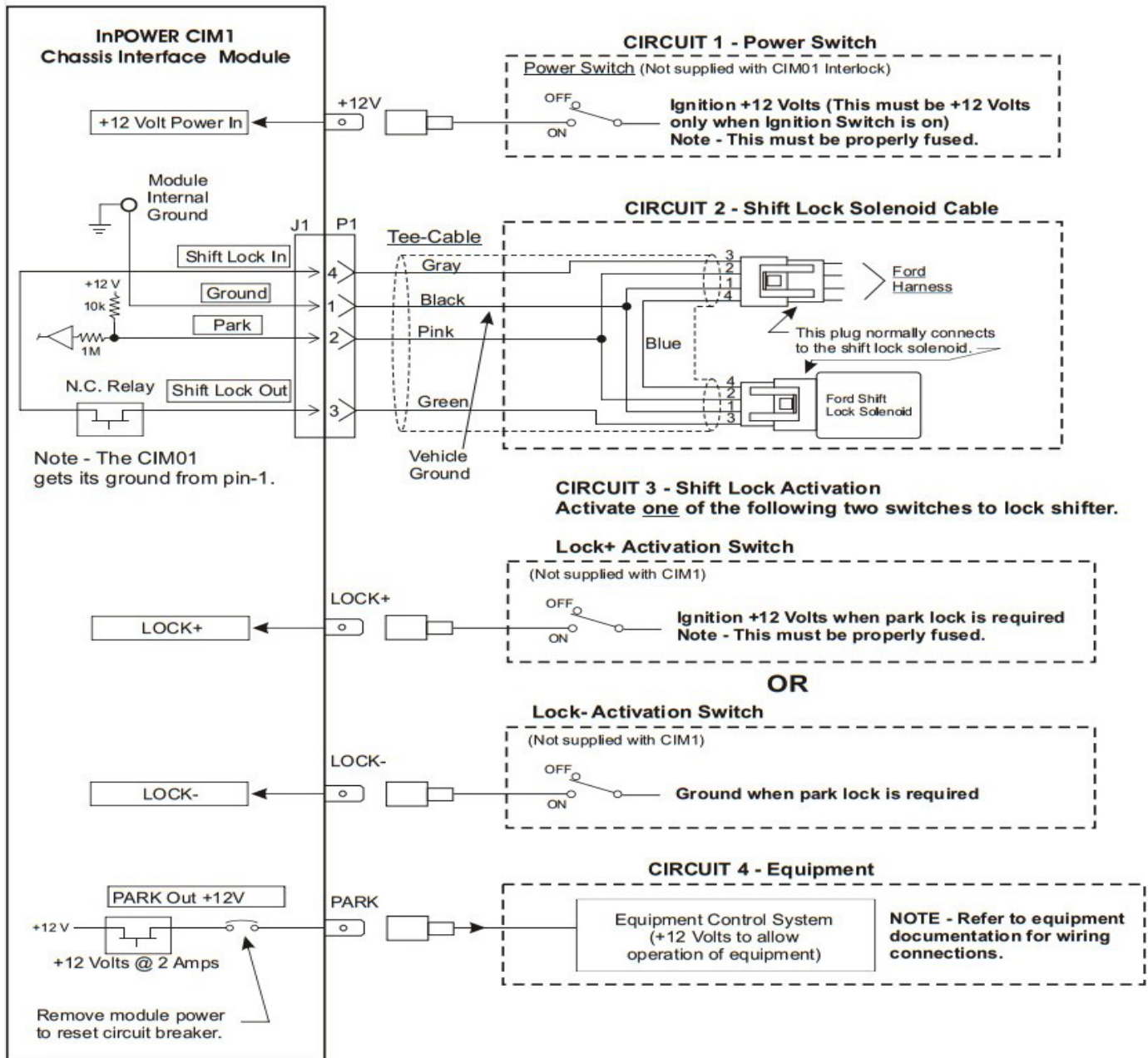
The following pages show the individual circuits that need to be wired. The following section, 5. Wiring Instructions, describes how to wire these circuits.

CIM 1 and CIM 1F System Layout

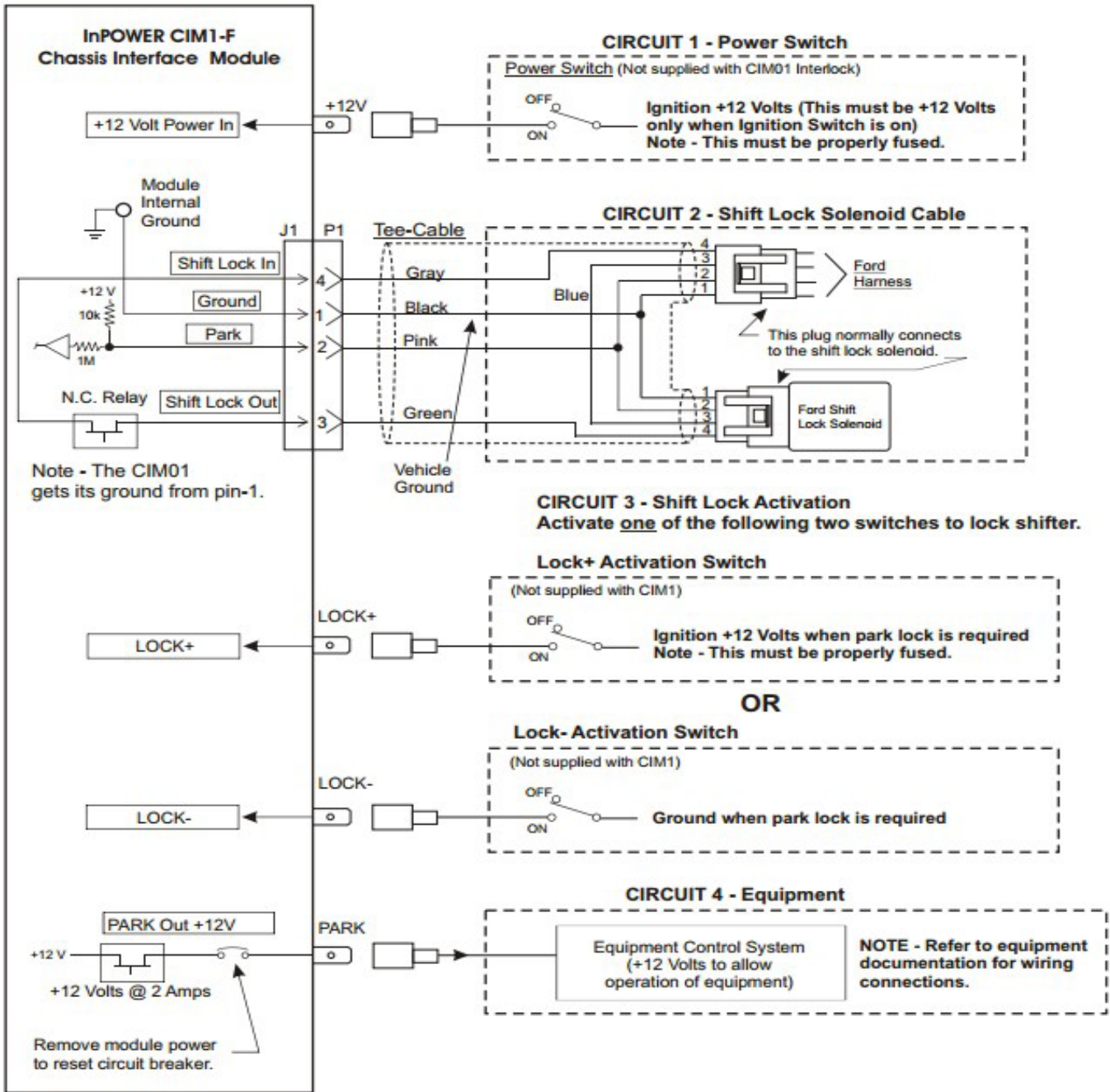


4. System Circuit Diagrams (Cont.)

CIM1 for 2009 to 2019 Ford E-Series

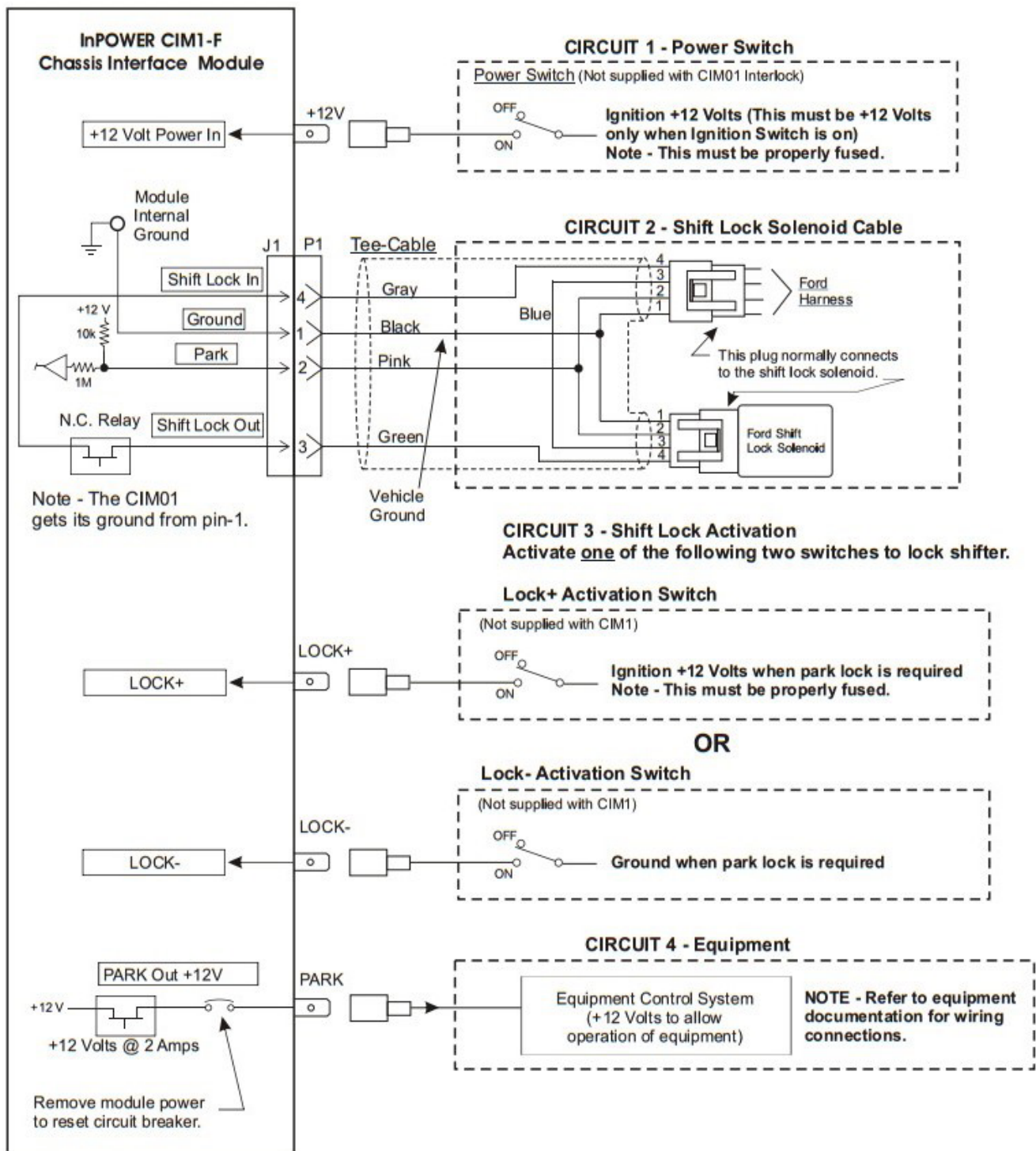


CIM1-F 2021+ E-Series



4. System Circuit Diagrams (Cont.)

CIM1-F for 2011+ Ford F-Series



5. Wiring Instructions



Make certain the vehicle power is disconnected during the installation. Reconnect the battery when installation is complete.

Circuit 1 Wiring (Chassis Interface Module Power Switch)

The installer must supply a two-position On-Off module power switch capable of handling the current (2 amps) of the system's Park output. This switch may be mounted on the dash at a convenient location. NOTE - An alternative method is to wire the module power input directly to a +12 volt fused power source that is powered by the Ignition Switch instead of through a module power switch.

1. Mount the interface module.
2. Wire the "common" side of the Power On/Off switch to a properly fused +12 volt ignition switch source (powered when the ignition switch is On). Refer to the Ford documentation for location of customer access ignition circuits.
3. Wire the "On" position side of the switch to the terminal labeled +12V on the CIM1 module.
4. When complete, you should have +12 volt fused power on the module's +12V terminal when the ignition switch is On and the interface power switch is On.

NOTE - Do not power the system directly from the Battery or any power source that is not fused and turned off with the ignition switch.

Circuit 2 Wiring (Shift Lock Solenoid Cable)

1. Locate the shift lock solenoid that is on the bottom left of the steering column behind the dash panel. It has a four-wire harness plugged into it.
2. Remove the harness plug from the solenoid assembly.
3. Install the tee-cable supplied with the CIM1 between the solenoid connector and the harness plug that you removed from the solenoid. When complete, the shift lock circuit tee-cable will be connected to the Ford harness plug and the shift lock solenoid as shown in Circuit # 2 diagram.

NOTE: The E-Series shift lock solenoid is located on the left side of the steering column. The F-Series shift lock solenoid is located on top of the steering column. You will need to remove the steering column cover to access the solenoid.

Circuit 3 Wiring (Park Lock Inputs)

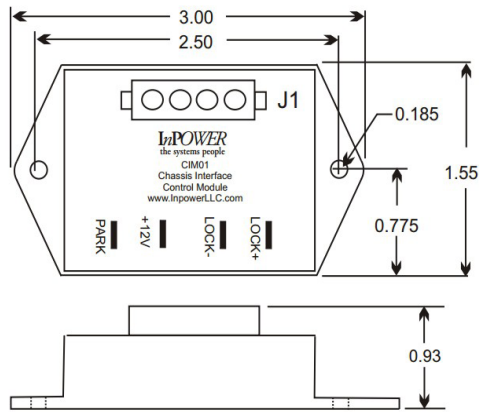
1. Determine if the lock signal is a +12V or ground signal.
2. If the lock signal is a +12V signal connect to the LOCK+ terminal.
3. If the lock signal is a ground signal connect to the LOCK- terminal.

Circuit 4 (PARK Output)

The CIM1 provides a +12 volt @ 2 amp output when the vehicle transmission is in the Park Position. This output contains a circuit breaker that is reset by removing power from the module.

6. Mechanical Drawing

Model CIM01 Control Module



Note - Allow room for the connector plug and wiring above the module when mounting.

All dimensions in inches. Not to scale.

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