



**CAUTION: CAREFULLY READ INSTRUCTIONS BEFORE PROCEEDING.  
NOT LEGAL FOR USE OR SALE ON POLLUTION CONTROLLED VEHICLES.**

### INTRODUCTION

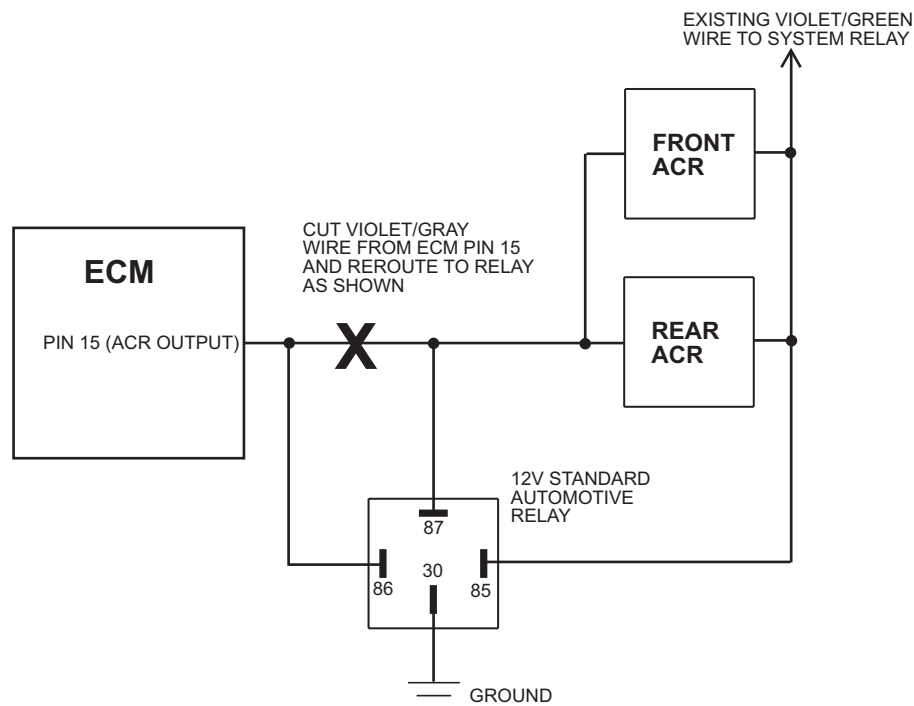
2007 and later Harley-Davidson® models with the CVO 110 CID engine are equipped with an automatic compression release (ACR) system activated by the ECM. When the TCFI III system is installed in these models, the ACR system must be modified as shown in Figure 1. While the new TCFI III system has an ACR output on pin 15, it cannot directly drive the ACR solenoids and a relay must be added.

### ACR MODIFICATION

Cut and reroute the original violet/gray wire going to pin 15 on the ECM and install a standard 12 volt automotive relay (you can use the relay in our P/N 1030 ignition power relay kit) as shown in Figure 1.

If the original Delphi® ECM is reinstalled, the ACR system will continue to function normally with the modified relay circuit.

**Figure 1 – ACR System Modification**



**WARNING: This modification is only applicable to the TCFI III and cannot be used with earlier TCFI IID systems.**