

# General Motors Passlock Anti-theft System

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## System Overview

Last year General Motors Corporation introduced a new theft deterrent system called Passlock. In many respects, Passlock is very similar to the VATS or Passkey system. However, the new system is much more sophisticated than Passkey. Passlock was introduced in the 1995 Cavalier Z-24 and the 1995 Sunfire GT. In 1996 all trim levels of the Cavalier and Sunfire, as well as the Pontiac Grand Am, Buick Skylark and Oldsmobile Achieva are equipped with the system. Vehicle that are equipped with Passlock easy to identify, as they will have a "theft system" indicator on the instrument cluster. The "theft system" indicator will light solid when the ignition is in the RUN position, and go out shortly after the motor is running. This is important to note since GM will most likely transition the Passlock system into many more models.

The Passlock system consists of four parts: the Passlock key cylinder, the ignition switch, the instrument cluster panel (IPC) and the powertrain control module (PCM). The system requires that the key cylinder be mechanically turned using a key. When the Key cylinder is properly turned, it generates a resistance code (R-Code) which is sent to the IPC. Unlike Passkey systems of the past, the Passlock system must see the correct resistance code at the correct time. When the ignition switch is turned to the crank position, the "Bulb Check" wire is switched to ground. This starts a time window during which the IPC analyzes the R-Code. If the R-Code is valid and is received in the proper window of time, the IPC sends a code via data bus to the PCM to enable the fuel injection system. If the key cylinder itself is pulled out or damaged, it will not generate the resistance code and the vehicle will not run. Please note that unlike Passkey systems which prevent the vehicle from cranking, the Passlock system will let the car crank and possibly run for a short time before the fuel injectors shut off.

The following pages contain information on how to test and successfully bypass the Passlock system in order to do remote start. Included for reference are several figures, and interface diagram that will work with any DEI® remote start system, as well as a trouble shooting guide.

Although we believe the information herein to be accurate, we strongly recommend that you verify any circuit before interfacing with it. Directed Electronics, Inc. assumes no liability and accepts no responsibility for possible installation errors with regard to the enclosed information.

# Vats Bypass Install Guide

**Yi-Tong Ma**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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