Mazda PCM Replacement/Key programming

Mazda utilizes a security immobilizer called PATS (Passive Anti-Theft System).

When replacing the Powertrain Control Module (PCM) on a vehicle equipped with PATS, a parameter reset or relearn procedure must be performed after the PCM is installed. Vehicles with a PATS module will not start unless an on-car procedure is successfully performed.

In order to get the vehicle to start, you must have at least one and in most cases two ignition keys. The keys must be a previously funtioning key(s). If you are adding a new key(s), they will need to be programmed to the vehicle prior to programming them to the PCM .

You can perform this procedure without going to the dealership or locksmith. The functions can be performed with a scan tool that has security access options. (A Scantool is required, not a code reader)

Our PCMs come pre-programmed with your VIN which is the step that requires advanced equipment and manufacturer subscriptions, so just a basic scan tool is adequate with our pre-programmed PCMS.

If your vehicle is not equipped with PATS, no additional steps are needed.

How to know if your vehicle is equipped with PATS?
- You will have a key with an embedded transponder
- When you set the ignition to the 'ON' position, you will see a security light or a picture of a car with a key symbol. (examples below)