

Automatic Compression Releases

This Tech Tip is to clarify how the ACR's function and installation procedures.

Functionality

- Power for the ACR comes from the system relay and the switched ground comes from the ECM at pin # 15.
- With the correct calibration, the ACR's will function during the first 2 seconds of the ignition being turned on and also while the engine is cranking. Once the engine starts the ECM will remove the ground and deactivate the ACR's.
- If the correct calibration is not installed **and** the engine is started, the ECM will not remove the ground. This will cause the ACR's to fail in a short period of time.
- Performing a reflash will not harm the ACR's as they are not active during this process.
- Turning the ignition on **without** starting the engine will not harm the ACR's as they only receive power for 2 seconds.

Installation Tips

When installing an ACR kit it is recommended to reflash the ECM first. This will eliminate the possibility of the engine being started before the calibration is installed as that would result in ACR failures.

For 2007 motorcycles there are specific calibrations which will enable the ACR function. They are the 110" street legal calibrations, OE CVO calibrations and 103" Touring Police calibrations.

For 2008 motorcycles there is an ACR option in Digital Technician under vehicle set-up that will allow you to enable or disable this function.

If this is a Race Application you will need to use the EFI Race Tuner. When you program the ECM with Tuner a dialog box will pop up asking you if you want to enable or disable this function. If you do not see this dialog box then you need to update your Race Tuner software.