

2022 CHEVROLET CORVETTE SERVICE MANUAL

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Video Processing Control Module Calibration

Note:

- The surround vision camera system image will be slightly distorted at all times because the camera(s) lens is a fish-eye lens meant to capture as much range as possible.
- A Video Processing Control Module that is not calibrated adequately will display an hour-glass icon on the surround vision camera system image screen and a DTC should be set. Once calibration is attained, the hour-glass will automatically disappear showing no further calibration is necessary.
- The Video Processing Control Module can disable rear camera display guidelines if it is not calibrated adequately. Once calibration is attained, the guidelines should return.

The calibration procedure is needed to have the Video Processing Control Module learn new cameras and their positions. The calibration is performed automatically by the Video Processing Control Module.

If any one of the cameras is replaced on the Surround Vision Camera System, the camera image needs to be calibrated to the system. For this reason, the Video Processing Control Module performs a calibration during its power up and initialization during each ignition cycle in order to maximize the surround vision image quality.

A new Video Processing Control Module will have built-in default values for camera learn. However, the Video Processing Control Module will automatically calibrate in order adapt to the vehicle.

To allow the Video Processing Control Module to complete calibration, drive the vehicle. Driving the vehicle in the conditions listed below will reduce calibration time.

Diagnostic Aids

Ideal conditions to reduce the time needed for the Video Processing Control Module to complete the calibration include:

- All moving points of vehicle access (doors, trunk/liftgate, fuel door, hood, etc) of the vehicle **Must** be closed and the corresponding vehicle access systems functional (no DTCs, etc).
- No vehicle body or structural damage that may affect proper camera mounting or line of sight
- All surround vision cameras properly mounted, fully connected, and appropriately connected to the proper terminal of the Video Processing Control Module.
- Vehicle driven reasonably flat and straight for at least 0.5 km (0.3 miles)
- Vehicle speed between 10-30 kph (6-19 mph)
- Steering wheel angle less than 0.5°
- It is a good practice to wipe camera lens clean prior to alignment
- Vehicle should not be within 1.5 meters (5 feet) of a curb or roadside
- Dry weather, cloudy but bright sky