

2022 CHEVROLET CORVETTE SERVICE MANUAL

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Curbview Vision Camera Description and Operation

Warning:

The Surround Vision cameras have blind spots and will not display all objects near the corners of the vehicle. Folding outside mirrors that are out of position may not display surround view correctly. Always check around the vehicle when parking or backing.

The Curbview camera provides a view of the area in front of the vehicle. The display shows a front, top down view at the top and left and right front camera images on the bottom.

The front view appears after shifting from R (Reverse) to a forward gear, or by pressing CAMERA in the center stack, and when the vehicle is moving forward slower than 8 km/h (5 mph).

The Curbview camera system consists of the following components:

- B87 Rearview Camera
- B174L Frontview Camera Left
- B174R Frontview Camera Right
- K157 Video Processing Control Module
- A11 Radio

When the vehicle is traveling at speeds slower than 6 mph (10kph) the Video Processing Control Module will power up the cameras and send a video signal to the radio or human machine interface module.

The following conditions may cause a degraded Curbview vision camera image:

- Ice, snow, or mud has built up on the rear vision camera
- Dark conditions
- Extreme light conditions, such as glare from the sun or the headlights of another vehicle
- Damage to the vehicle
- Extreme high temperatures or extreme temperature changes

Rear Vision Camera

When the vehicle is shifted into R (Reverse), the RVC displays an image of the area behind the vehicle in the center stack display. The previous screen displays when the vehicle is shifted out of R (Reverse) after a short delay. To return to the previous screen sooner, press a button on the infotainment system, shift into P (Park), or reach a vehicle speed of 8 km/h (5 mph).

Displayed images may be farther or closer than they appear. The area displayed is limited and objects that are close to either corner of the bumper or under the bumper do not display.

Curbview displays an overhead view of the area surrounding the vehicle, along with the front or rear camera views in the center stack. The front cameras are in the fascia or near the front emblem, and the rear vision camera is above the license plate.

Features of the Curbview Vision System

- Rear camera view is displayed in reverse
- Front camera view alongside overhead view is displayed after shifting out of reverse to Neutral or Drive
- Will display front view when front park assist object is within trigger range calibration value (30 cm (12 in) in a forward gear

- Image is removed from display when vehicle speed exceeds speed calibration (8 km/h (5 mph) or button press / screen touch

System Operation

The Video Processing Control Module is connected to each camera via a shielded coaxial cable. The coaxial cable provides power for the camera and also carries the video image from the cameras to the Video Processing Control Module for processing. The Video Processing Control Module will then send the processed image output to infotainment system via another coaxial cable.

The Video Processing Control Module receives CAN information from Rear Park Assist object detection module and Steering Wheel angle from body control module during Reverse. A warning triangle may display during the Curbview screen if Rear Parking Assist has detected an object during a reverse. This triangle changes from amber to red and increases in size the closer the object. Also a dynamic guideline is displayed in Reverse to show the projected path of the vehicle.

The Video Processing Control Module system may have a memory card receptacle (with XVR) located in the trunk. The memory card receptacle interfaces with the Video Processing Control Module via a USB cable. The memory card receptacle also receives fused battery voltage and ground from the Video Processing Control Module. The Video Processing Control Module uses the memory card as a mass storage device, similar to a USB storage device.

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