



**Application:** All Corvettes – 1997-2013

**Part Includes**

- 1 - Sensor with cable
- 1 - Control Box with Power Leads
- 1 - Buzzer with Power Leads
- 1 - Top Mount Hinge
- 4 - Cable Clips
- 5 - Cable Ties
- 1 - Hex Key

# Curb Alert Mini Parking Sensor



**Tools Needed**



Search: **Body Panels - Fiberglass**  
[www.mamotorworks.com](http://www.mamotorworks.com)

**STEP 1.**

Determine the best mounting location for the sensor unit. With both top mount and bottom mount (under bumper) brackets included, a broad variety of sensor mounting locations are possible to mount to almost any vehicle. Measure the ground clearance of the the vehicle's lowest ground clearance point in the front fascia/air dam of the vehicle. If the lowest point is 5 inches ,for example, calibration of the Curb Alert unit to detect a 4 inch curb height will be required to provide adequate front end curb protection. If the sensor is mounted under the vehicle, it should be mounted as far back from the front end as possible or in a recessed / protected location to prevent damage on steep incline or declines.

**STEP 2.**

Clean the sensor mounting location with a suitable solvent to remove all wax or dirt that would reduce the adhesion of the 3M™ adhesive mounting tape on the mounting bracket. The use of 3M™ adhesion promoter 4298 is strongly recommended for plastic mounting surfaces. Remove the 3M™ release film from the bracket and mount the sensor unit to the pre-determined mounting location. Mount the sensor unit being very careful to aim the unit directly forward and centered on the vehicle.

**STEP 3.**

At this point, you can connect all Curb Alert™ Mini components outside the vehicle, connect the control box power leads to the battery, and calibrate the sensor. Start the vehicle, and then shut it off. This allows the control box to be used for approximately 10 minutes during sensor calibration thus making one person sensor calibration convenient. After the sensor is calibrated, proceed with the normal installation.

**STEP 4.**

Mount the control box in the vehicle engine compartment in a convenient location cleaning the mounting surface and removing the release film from the 3M™ tape. The firewall is often a convenient location. The red (+) and black (-) power leads from the control box can be connected directly to the battery, fuse block, or to any circuit that detects alternator voltage. Curb Alert™ Mini must detect continuous alternator voltage (>13.2 V) to activate and will automatically shut off in approximately 10 minutes when it does not detect alternator voltage. Apply a cable tie around the the power leads, buzzer cable, and sensor cable at the control box connections to prevent any tension on these components. Please refer to the Sensor Calibration and User Instructions to complete the installation.

**STEP 5.**

Mount the buzzer in a convenient location in the driver or passenger side interior, again cleaning the mounting surface and removing the release film from the 3M™ tape. Route the buzzer cable into the engine compartment through the door and hood openings. Plug the buzzer jack into the control box and set the buzzer volume to high initially. Please refer to the Sensor Calibration and User Instructions to complete the installation.

† Please note that CURB ALERT™ Mini acts as a curb stop parking aid, but is not warranted to prevent vehicle damage when parking. CURB ALERT™ Mini aids drivers in safe curb parking, but does not substitute for careful driving practices.

† CURB ALERT™ Mini carries a warranty limited to product replacement for defects in material and workmanship for 12 months when installed using these Installation Instructions. Road hazard and road damage are specifically excluded from the warranty.



Mamotorworks



@CorvettePassion



MidAmericaMotorworks



CorvettePassion

**2900 North Third Street, Effingham, IL 62401**

**800.500.1500 • Worldwide: 217.540.4200 • FAX: 217.540.4800**

**www.mamotorworks.com • generalmail@mamotorworks.com**

©Mid America Motorworks, Inc. All rights reserved.



# Description (cont.)

## COMPONENTS:

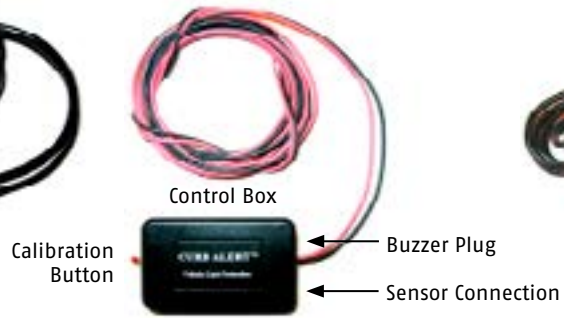
Sensor with mounting hinge



Front View



Side View



Control Box

Calibration Button

Buzzer Plug

Sensor Connection



Buzzer

Top Mount Hinge



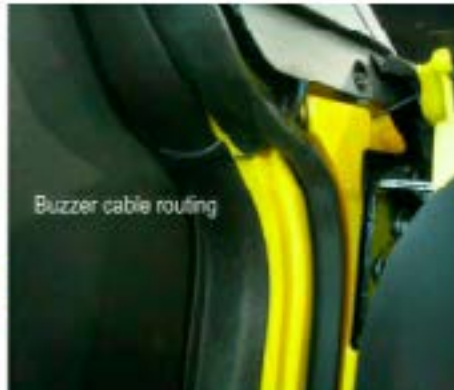
Cable Clips and Ties



Hex Key



## INSTALLATION PHOTOS





## **Description (cont.)**

### **CURB- ALERT™ MINI SENSOR CALIBRATION**

Note: The sensor calibration should be completed with the vehicle not running. With vehicles wired to a circuit that senses alternator voltage such as the battery or fuse block; start your vehicle to activate the Curb Alert unit. The buzzer will "chirp" 4 times to notify you that the sensor has been activated in any of the wiring modes. Then shut off the engine. The Curb Alert will shut off automatically in 10 minutes after the vehicle is shut off- this allows time for sensor calibration with the car not running. If you need more time to calibrate your sensor, restart your vehicle, shut it off, and your Curb Alert will be activated again.

- After mounting the Curb Alert sensor to your vehicle as described in the installation instructions, tighten the allen head screw to the near tight position. This will allow the sensor to rotate for curb height detection adjustment.
- Now, you need to measure the ground clearance from the lowest part of your fascia to determine what curb height you want to detect to protect your front end. Place either the 3 in or 4 in. high side of the packing box on the floor at 20 in. or your desired alert distance from the bumper front or lower fascia front (directly in the front of the sensor).

### **SENSOR CALIBRATION- DISTANCE ALERT ADJUSTMENT**

#### **STEP 1.**

Rotate the sensor housing to the full upward position with no other objects within 36 in. of the front of your sensor. Make sure that the target (3 in or 4 in. side) is at your desired alarm distance from the front of your vehicle.

#### **STEP 2.**

Then rotate the sensor very slowly downward to aim the sensor at the target until a double beep is heard when you repeatedly press and release the calibrate button with each sensor downward rotation. If you do not hear the beeps when pushing the calibration button, then the sensor is aimed above the target. Once you hear a double beep, move the target back several inches and then move it forward. A constant tone indicates the target is being sensed in the calibration mode and is now calibrated for that distance.

#### **STEP 3.**

Again, move the target back several inches and slide it forward to recheck the alert distance. You should now hear a constant tone indicating that your target is being sensed at your calibrated alert distance.

### **SENSOR CALIBRATION- CURB DETECTION HEIGHT ADJUSTMENT**

#### **STEP 1.**

You should now check your curb detection height setting by very slowly bringing the target box down vertically in front of the sensor (at your calibrated alert distance) until you hear the constant tone. Do this several times, measuring the height each time from the pavement when you hear the alert. If needed, rotate the sensor up or down slightly to raise or lower your curb detection height. A constant tone indicates that the target is being sensed at your new curb detection height.

#### **STEP 2.**

When your desired curb detection height is correct, tighten the allen head screw very tightly! At this point, you should recheck your curb detection distance and height to be sure that it hasn't changed from the final tightening of the allen screw. Your Curb Alert unit requires 5 seconds between alerts to reset.

#### **STEP 3.**

Your Curb Alert unit will shut off automatically in about 10 minutes after the engine has been turned off. It will then be in the distance alert mode. You can also disconnect and reconnect the power lead to put the Curb Alert in the distance alert mode immediately. Your distance alert is now programmed into your Curb Alert unit. Your curb detection height has been adjusted to your desired height. If your Curb Alert unit should alert often on straight road conditions, your curb height adjustment is too low and should be readjusted.

#### **STEP 4.**

Your Curb Alert is now calibrated to alert you when a high curb is detected at your chosen distance from the front sensor. The curb height and alert distance are easily adjustable based on your vehicle and preferences! A detection distance of 20 in. from the front of your vehicle's bumper is suggested as an initial distance setting. Modify as desired.



## **Description (cont.)**

### **CURB- ALERT™ MINI USER INSTRUCTIONS**

- When you start your vehicle, you will hear a “chirp” sound indicating that your CURB ALERT™ unit is activated.
- Volume of the buzzer alerts can be set to “off”, “low”, or “high” based on your preferences.
- Approach parking curbs slowly for the highest accuracy. Stop when you hear the triple beep!
- Parking at an angled parking curb will reduce the stopping distance from the curb! Park only against straight curbs.
- You will experience curb alerts on steep inclines and declines warning that the front end of your vehicle may scrape on those steep inclines or declines. Angling your vehicle into those areas will reduce the frequency of alerts and also potential damage to your vehicle.
- Keep your sensor lens clean for optimum performance! The distance sensor transmits an infrared beam and requires a relatively clean lens. Do not rely on Curb Alert in snowy conditions, since the snow could block transmission through the lens.
- Your Curb Alert is internally fused and draws only 35 milliamps when activated. It will shut off automatically in 10 minutes after your vehicle is shut-off.