

**Park View Pro with Front Camera
(Kit # 5000-CA6)**

- **NOTE: Do NOT discard the box as it will be used during calibration of system at final steps.**



Please read thoroughly before starting installation and check that kit contents are complete.

Items Included in the Kit:

- 4 mounting feet
- 3M surface prep-pad
- Allen wrench
- Front sensor
- Speaker with volume control
- Park View Pro module
- Camera with mounting foot
- Chassis harness for camera
- Video/power harness
- 3M camera mount adhesive pad

Tools & Supplies Needed:

- Wire strippers
- Wire cutters
- Electrical tape
- Zip ties
- Plastic panel removal tools
- Digital Volt Meter / BCM safe test light
- Screwdriver
- Socket set
- Wrench

Safety Precautions:

- Work in well ventilated area that is clear of obstructions.
- Secure vehicle with tire chucks in both front and rear of tires.
- Turn vehicle accessories OFF and ensure ignition key is in OFF position.
- Wear safety goggles and snug fitting clothes.
- Use tools only for their intended purpose and which are in good repair.
- Only perform this task if confidence, skill, and physical ability permit.

NOTE: We strive to provide accurate and up-to-date installation instructions. For the latest full color instructions, as well as an installation video, please visit www.brandmotion.com

INSTALLATION INSTRUCTIONS

1. Find an appropriate place to mount all components

- A. The Proximity sensor **MUST** be mounted as close as possible to the center of the front of the vehicle with a clear line of sight to the curb (it is an IR sensor and so it **CANNOT** be mounted behind the license plate, any panel and or object that will obstruct its view.) **Note:** the sensor must be placed where it will not be easily struck or damaged by road debris or so low that it will be damaged during entry or exit out of driveways.
- B. The Speaker must be accessible to the vehicle owner in order to allow operation of the built-in Power switch.
- C. The camera should be mounted in the center of the vehicle to see a view of the lower edge of the lower front fascia.
- D. The Main Module must be mounted in the cabin area where it will be easy to program for proper operation once installed (the program switch will **NOT** be used by customer once installation and proper programming is done and so it can be hidden out of sight).

• 2) Installing hardware:

- A. Clean the mounting surface where the sensor will be adhered using a clean cloth and the 3M prep-pad or alcohol. \\\Make sure not to leave any residue on the surface (do **NOT** tighten Allen screw completely as the sensor will be adjusted later during programming).
- B. Clean the mounting surface where the camera will be adhered using a clean cloth and the 3M prep-pad or alcohol.

- C. Connect the 2 **WHITE** wires at the plug on the camera harness together.(If you do not want park lines to show from the camera the connect the 2 **GREEN** wires together.)
- D. Plug the camera harness into the chassis harness and route the harness with the sensor harness into the vehicle through the firewall.
- E. Route the sensor harness through the firewall into cabin area making sure to stay away from any moving parts and away from extreme temperature engine components.
- F. Mount the Buzzer by first cleaning the surface with either a cleaning solution or alcohol.
- G. Mount the Main Module using the supplied cable ties making sure not to obstruct any objects such as the steering column and or foot pedals under the steering column area (make sure that nothing will accidentally press the Program switch as this will de-calibrate the unit).
- H. Connect the buzzer as well as the sensor connector to the module, leave about a 1/8th of an inch of slack. Use a cable tie to secure them to the power cable (this will insure that the connections will not come lose while vehicle is in normal operation).

• 3) Power connection:

- A. Connect the **BLACK** wire of the power harness and camera harness to a good solid ground (it is recommended to trim cable to appropriate length).

- B. Connect the RED wire of the power harness and camera harness to an Ignition controlled power source (it is recommended to trim cable to appropriate length).
- C. The single BLACK wire is a negative 500ma output, that will activate for 10 seconds when the CA6 is triggered.(This can only be used to trigger a interface or monitor. *Must use a relay for higher current draw or a positive output.*)

4) Programming:

(It is important that the device be programmed in the vehicle on a flat surface with NOTHING in front of the vehicle for a minimum of 4 feet).

- A- Slide power switch on Buzzer to Hi position
- B- Aim sensor about 5 to 10 degrees higher than horizontal
- C- Turn Ignition switch to Run position (System will emit a series of beeps)
- D- Place box on either 3” or 4” side, depending on how high curbs are in your local area at a distance of 20” from the front of the vehicle.
- E- Rotate sensor down until it is pointing at the top edge of the front of the box (the sensor has a pencil beam IR line of sight and so it must be aimed properly).
- F- Press the Program switch and the unit will beep 2 times followed by a constant tone (if this did not happen return to step E and

INSTALLATION INSTRUCTIONS

possibly aim sensor slightly lower then repeat step F).

- G- Raise box straight up and as soon as the sensor no longer detects the box the solid tone will stop (this will confirm that the sensor is aimed properly. If the sensor continues to emit a tone with the box lifted the sensor is aimed too low and is picking up the road, if so repeat steps E & F and retry step G).
 - H- If the distance is acceptable and the height is accurate then simply turn Ignition switch Off and the distance will now be programmed in (if you prefer a different distance then place the box at the desired distance and redo all steps starting with step D).
- #### 5) Pre-delivery testing:
- A. Tighten sensor to screw using supplied Allen wrench to insure that the sensor will not move during normal operation.
 - B. Place box in front of vehicle at a distance of 30”
 - C. Turn Ignition On (unit will beep to confirm power up)
 - D. Slide box toward vehicle until 3 beeps are heard from Buzzer.
 - E. The CA6 single BLACK will show ground and activate the interface or monitor.
 - F. Measure distance from box to vehicle and the distance and height should be as they were when programmed.

• **6) Use, Care and Maintenance:**

- A. When the vehicle is turned ON you will hear a series of beeps to notify that the device is up and running
- B. Simply drive up to the curb at a slow speed (the device is intended for curbs that are vertical to the parking space, curbs that are at an angle will not be detected properly), and once the curb is within programmed distance the device will beep to notify you to stop.
- C. The device will shut down automatically when the ignition key is turned OFF.
- D. It is recommended that every time the oil is changed on the vehicle the sensor should be inspected for proper angle of adjustment and to insure that the sensor screw has not come loose.
- E. At every car wash the camera lens and sensor should be wiped down and any debris that are obstructing the lens be removed (the sensor relies on line of sight and so any build up will affect its performance).



Front sensor and camera mounted.





Speaker and on/off switch.



Front camera with foot mount.