

## INSTALLATION INSTRUCTIONS

### **Factory Plug in Harness to replace factory tailgate back-up camera Multi Mount CMOS Camera with Optional Grid Lines and Factory Plug in Harness**

**(Kit #9002-7440, 9002-7441, 9002-7442, 9002-7443, 9002-7444,  
9002-7445, 9002-7446, 9002-7447, 9002-7448, 9002-7449)**

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

#### **Items Included in the Kit:**

Factory Plug in Harness  
Camera  
Multi mount foot  
License plate mounting bracket  
Mounting screws  
These Instructions

#### **Tools & Supplies Needed:**

1/4" Drill Bit (If Needed)  
Center Punch  
Power Drill  
Wire Ties  
Electrical Tape or Heat Shrink Tubing  
Plastic Trim Removal Tool  
Small grommet or Silicone (If needed)  
Vehicle service manual (If needed)

#### **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](http://www.brandmotion.com)**

## INSTALLATION INSTRUCTIONS

### Step 1: Select and Install Camera Bracket

Determine which of the two supplied camera mounting methods you prefer.



**License Plate Bracket**



**Alternate Camera Mount Bracket**

Place camera in desired position to confirm fitment (Note: Some states prohibit items blocking the license plate; check local authorities to confirm legal status for your application).

If using **License Plate Bracket**, remove license plate. Reattach license plate securing bracket behind.

If using **Alternate Camera Mount Bracket**, remove camera from License Plate Bracket using supplied Allen wrench. Attach camera to the Alternate Camera Mount bracket and apply supplied self-adhesive foam to mount.

Use the Template included in the Installation Instruction Overview to position the Alternate Camera Mount on vehicle.

Clean vehicle surface to which mount is to be attached and affix with self-adhesive foam. **RECOMMENDED:** Permanent attachment using screws.

**Step 2: Disconnect the harness that leads from the tailgate the under the back of the bed.** There is a different plug and location for each vehicle make.



**Step 3: Run the new camera harness through the opening in the back of the bed to the underside of the vehicle.**



## INSTALLATION INSTRUCTIONS

**Step 4: Connect Camera Harness to supplied Chassis Harness.** Make sure to line up the arrows on the connectors. Tape or heat shrink after to seal connection.



**Step 5: Plug the new connector into the factory connector that the factory camera was just unplugged from.** Make sure that the new connector "clicks" into place.

**Step 6: Secure Camera Harness to existing vehicle wiring.** This will minimize the chance of binding or otherwise damaging the harness

**Step 7: Test the system.** Inspect that all connections are proper and secure. Clear all loose items removed from the area around the vehicle and turn ignition key ON to test system.

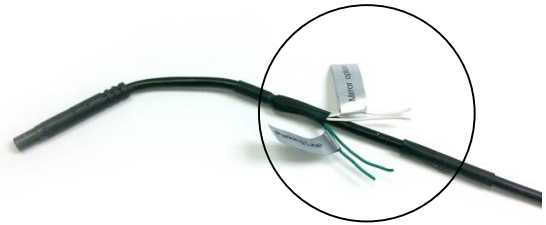
**Step 8: Adjust Camera angle** (if necessary). Loosen camera screw to aim the camera. Tighten screw at desired adjustment.



**NOTE: This camera has grid lines or non grid lines and mirror image or non mirror image options.**

**Grid line options:** Default setting is to display grid lines. To remove the grid line display, connect the two green wires near the end of the camera harness.

**Display options:** Default setting is mirror image display for rearward facing camera (rear view) installation. To change to non mirror image for forward facing camera (front view) connect the two white wires near the end of the camera harness.



Green and white wires on the camera harness.

**FOR TECH SUPPORT CALL  
1-734-619-1250  
Please have part number available**