

## Dual Mount Universal Kit Aftermarket CMOS Camera with Optional Parking Gridlines Installation Instructions (Kit # 9002-7601)

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

### Items Included in Kit:

Chassis Harness  
Camera mounted on license plate bracket  
Small bag containing:  
Two license plate bolts [optional]  
Alternate Camera Mount with Double-sided  
Adhesive Foam  
Instructions

### Tools & Supplies Needed:

¼" Drill Bit  
Multi-meter or computer-safe test light  
Ground Eyelet (recommended)  
Soldering Iron  
Solder (recommended) or T-Taps  
Plastic trim removal tool  
Rubber Grommet or Silicone Caulk  
(recommended)  
Vehicle service manual (if needed)  
Small sheet metal screws (recommended for  
Alternative Camera Mount install)



### 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. The latest full color instructions can be accessed at [www.brandmotion.com](http://www.brandmotion.com)**

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<u>Green</u> Wire Connected	<u>Green</u> Wire Cut	<u>White</u> Wire Connected	<u>White</u> Wire Cut
No Park Lines	Park Lines	Front Camera	Rear Camera



### 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: Measure, mark, and drill 1/4" hole for camera harness.** NOTE: If your vehicle has a liftgate panel/trunk trim cover, it must be removed.



**Step 3: Determine location of vehicle power and ground.** Using a vehicle specific service guide and/or specific wiring diagram and a multi-meter or computer-safe test light, locate which side of the vehicle contains reverse and Ground wires (Chart A).

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**Chart A**

Wire Color	Polarity	Function	Description	Location
Red	12v +	Reverse	This lead will display 12 volt + when the vehicle is in reverse	Commonly found in either passenger or drivers kick panel
Black	(-)	Ground	Chassis ground	A ground bolt is commonly found in the front kick panel area with other wires attached.

**CAUTION:** Once correct wires have been identified, turn Ignition key OFF and DO NOT TURN key back ON until the install has been completed (Step 13).

**Step 4: Splice the red and black chassis harness leads into the corresponding vehicle wires** (Recommended: Soldering or T-taps as optional connection method). Also recommended is an eyelet for the ground connection.



**Step 5: Insert the connector end of the Camera Harness through the hole you drilled.** (RECOMMENDED: Protect Camera Harness from sharp metal edges by applying a small amount of silicone caulk or a rubber grommet to the area that comes into contact with the metal).

**Step 6: Route Camera Harness.** Continue routing harness to the side of the vehicle that supplies power and then forward.



**Step 7: Connect Camera Harness to supplied Chassis Harness.** The optimal location for this junction may occur at the top of the liftgate or the inner edge of the trunk depending on vehicle in which installation is in (Note: most vehicles may already have existing wires passing through this area; use this route if at all possible).



**Step 8: Route Chassis Harness.** It may be necessary to remove sill plates, pillar covers, seat bottoms, side panels, etc. In some cases even the seat belt bolts at the bottom of the pillars must be removed (**CAUTION:** Any bolts removed for safety devices must be reinstalled and tightened to manufacturer's specified torque specifications). Use a plastic trim removal tool to avoid damage to trim pieces.

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**Step 9: Secure Camera Harness to existing vehicle wiring.** This will minimize the chance of binding or otherwise damaging the harness (Recommended: Wire Ties or Electrical Tape.)



**Step 10: Connect Chassis Harness red wire reverse wire and black to clean chassis ground.**

**Step 11: Install aftermarket display/ Navigation display as per instructions (if required).**

**Step 12: Connect the male RCA from the Power Harness to the "Camera IN" on the aftermarket display/ Navigation display.**

**Note: Connection to female RCA connector shown.**

**Step 13: 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 14: Adjust Camera angle (if necessary).** Loosen camera screw using supplied Allen wrench to aim the camera. Tighten screw at desired adjustment.



**Step 15: Reassemble vehicle.** Follow your disassembly steps in reverse order, taking care not to bind the harness wiring when reinstalling.

## OVERVIEW

### REQUIRED CONNECTIONS

Wire Color	Polarity	Function	Connection
Red	12v +	Reverse	Commonly found in kick panel
Black	-	Ground	Good chassis ground

**1: Select and Install Camera Bracket.** Choose **License Plate Bracket** or **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 specific application).

**License Plate Bracket:** Remove vehicle license plate. Reattach license plate securing bracket behind.

**Alternate Camera Mount Bracket:** Remove camera from License Plate Bracket using supplied Allen wrench. Attach camera to Alternate Camera Mount bracket and apply supplied self-adhesive foam to mount. Use Template below to locate Alternate Camera mount on the vehicle: Clean vehicle surface and affix by exposing self-adhesive foam. RECOMMENDED: Permanent attachment using small screws.

**2: Measure, mark, and drill 1/4" hole for camera harness.**

**3: Determine location of vehicle power and ground.** Using a vehicle specific service guide and/or wiring diagram and a multi-meter or computer-safe test light, locate which side of the vehicle contains wires into which you will need to tap for the Power Harness wiring (see Required Connections above).

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**CAUTION:** Once correct wires have been identified, turn Ignition key OFF and DO NOT turn key back ON until the install has been completed (Step 13).

**4: Splice the red and black Power Harness leads into the corresponding vehicle wires** (Recommended: Soldering or T-taps as optional connection method; eyelet for the ground connection.)

**5: Insert connector end of the Camera Harness through the hole you drilled.**

**6: Route Camera Harness.** Continue routing harness to side of vehicle that supplies power and forward.

**7: Connect Camera Harness to supplied Chassis Harness.**

**8: Route Chassis Harness.**

**9: Secure Camera Harness to existing vehicle wiring.** (Recommended: Wire Ties or Electrical Tape.)

**10: Connect Chassis Harness red wire to reverse and black to clean chassis ground.**

**11: Install aftermarket display/ Navigation display** as per instructions (if required).

**12: Connect Power Harness RCA to "Camera IN" on aftermarket display/ Navigation display.**

**13: Test the system.**

**14: Adjust Camera angle** (if necessary). Loosen the camera screw using supplied Allen wrench to aim. Tighten screw at desired adjustment.

**15: Reassemble vehicle.** Follow disassembly steps in reverse order, taking care not to bind harness.

**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.

