

## Universal Kit Install Instructions

### Kit # 9601

**Please read thoroughly before starting installation**

#### Items Included in kit:

Body Harness with RCA connector  
Camera in housing (in bubble bag)  
Small zip lock bag containing:  
    Two Screws with rubber nuts  
    12 Cable ties  
    2 sets of T-taps  
Large zip lock bag containing:  
    Template  
    These instructions

#### **\*Additional Parts that may be needed see Application Chart (sold separately):**

5000-VWAB Volkswagen mirror mount adapter  
5000-CAMLOCK Honda/ Subaru mirror mount adapter

#### Tools Needed:

Drill bit 5/16  
Drill bit 3/4  
Multi-meter or computer safe test light  
Power Drill  
Wire Crimper  
Panel remover  
Mirror removal tool (if needed)  
Vehicle specific tools (if needed)  
Vehicle service manual

Note: An installation video of this product can be accessed at [www.brandmotion.com](http://www.brandmotion.com) by viewing the relevant portions of the full mirror installation video (part number 9002-9602).

## **Safety Precautions:**

### **Vehicle:**

On clean, level ground  
Secured with Tire Chucks on both front and rear of tires  
Well ventilated area  
Accessories turned OFF  
Clear on all sides from any objects  
Well lit

### **Installer:**

Wear safety goggles  
Snug fitting clothes  
Use tools only for their intended purpose, which are in good repair  
Only perform this task if confidence, skill and physical ability are permit

### **Step 1**



Place camera in desired position to confirm fitment (note: some states prohibit items blocking the vehicle license plate, check local authorities to confirm legal status for your specific application).

## Step 2



Using a vehicle specific service guide and or vehicle specific wiring diagram and a multi-meter or computer safe test light locate which side of the vehicle has the following wires which you will need to connect into for wiring. See Chart A

**Chart A**

Wire Color	Polarity	Purpose	Description	Note
Red	12v +	Ignition controlled power	This lead will display 12 volt + when the key is in the RUN position	Commonly found on the main Ignition harness.
Green	12v+	Reverse trigger	This lead is activated when the vehicle is engaged into reverse gear	Commonly found on the front kick panel area on the harness coming from the rear of the vehicle
Black	(-)	Ground	Chassis ground	A ground bolt is commonly found on the front kick panel area with other wires attached, in some cases you may need to supply a new screw.

### Safety Precaution 1

Once correct wires have been identified and isolated turn Ignition key OFF and DO NOT TURN key back ON until the job has been completed (Step 10)

## Step 3

If needed, install aftermarket display/ Navigation display as per instructions. Connect the male RCA from the chassis harness to the camera IN on the aftermarket display/ Navigation display. Connect the remainder of the leads from the chassis harness as per Chart B on vehicle wiring.

## Chart B

Color	Polarity	Purpose	Connect to
Green	+	Reverse	Reverse lamp trigger
Red	+	Ignition	Ignition Controlled power
Black	-	Ground	Chassis
RCA	AC	Video Out	Monitor (White for video + and brown for video -)

### Step 4



Route the camera side of the harness (Black 6 pin connector) to the rear of the vehicle. It may be necessary to remove sill plates, pillar covers, seat bottoms, side panels and in some cases even the seatbelt bolts at the bottom of the pillars (if you remove any bolts which are for safety devices you must retighten bolts at manufactures specified torque specifications).

### Step 5



Route camera end of the cable to the area where the camera connectors will mate inside of the vehicle, this 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 going into the same area and if at all possible use the same existing route).

## Step 6



If your vehicle has a liftgate panel/ trim cover it must be removed.

## Step 7

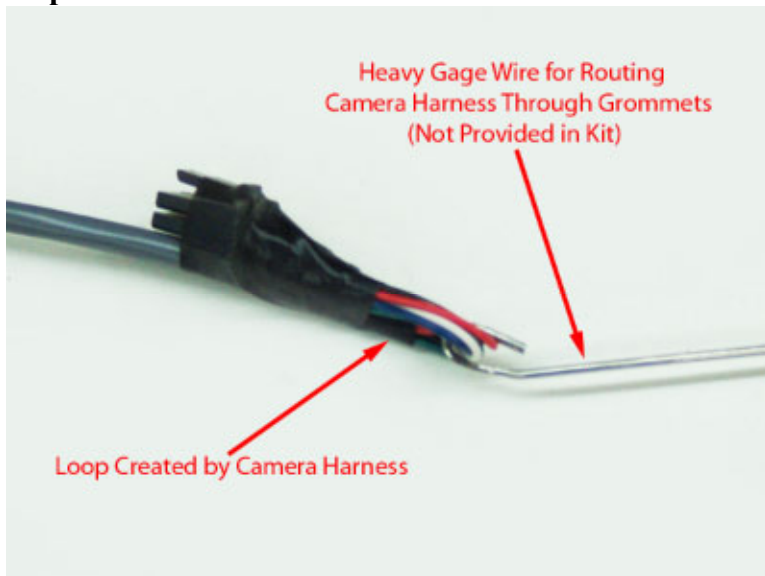


Using the supplied template mark the 3 holes that will need to be drilled in order to mount and connect the camera.



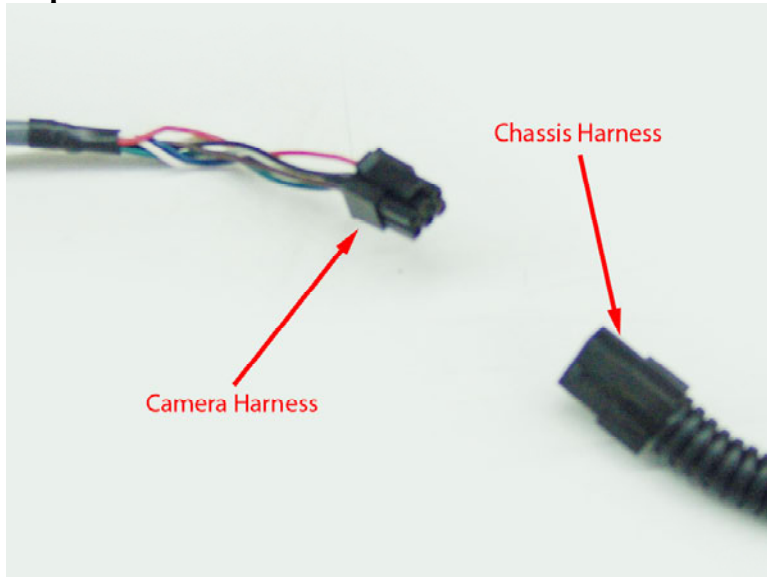
- 1) Remove camera cable from back of camera by unscrewing the 2 small Phillips screws and unplugging the connector (the camera cable has a groove which must align with the camera housing upon reassembly).
- 2) Drill two outer holes using 5/16
- 3) Drill the center hole using 3/4
- 4) Insert the 2 rubber nut inserts into the outer holes.
- 5) Route the cable from the inside of the liftgate through the center hole which was drilled for the camera and reattach using the same screws that were removed then screw camera housing to liftgate.
- 6) Mount the camera using the supplied the screws and bolts but do not tighten down just yet.

### Step 8



Route cable through liftgate out to the same area in which the camera side of the harness was left at from step 5

### Step 9



Connect Chassis Harness to Camera Harness.

Pinout Reference Chart

Camera 6 Pin Connector	Camera Harness Color	Body Harness 16 pin Connector	Body Harness Color	Description
1	White	6	White	Video (+)
2	Blue	3	Blue	Shield (-)
3	Green	9	Green	Reverse (+)
4	Brown	7	Brown	Video (-)
5	Black	8	Black	Ground (-)
6	Red	13	Red	Ignition 12V (+)

### Step 10

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. Once reverse gear is engaged the camera image should appear on the screen.

### Step 11

You will now need to adjust the aim of the camera at the center of the rear of the vehicle (if the camera was mount off set), once centered tighten the screws that hold the camera in place.

### Step 12

With system tested and camera adjusted reassemble vehicle following a reverse order of your disassembly steps.