

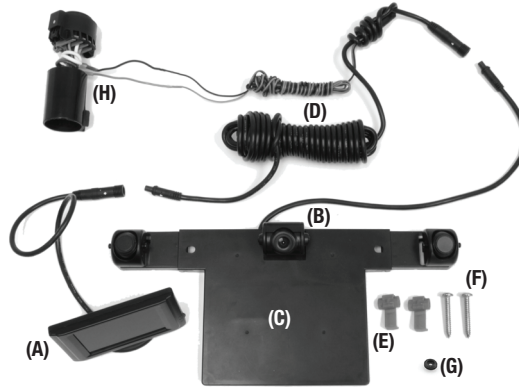


# Smart Hitch™ Camera/Sensor System

## Trailer Hitch Wiring & Electrical

### PARTS:

- (A) 3.5" Color Monitor
- (B) Camera
- (C) Mounting Bracket with Sensors
- (D) Installation Cables
- (E) 2 Cable Clips (optional)
- (F) 2 License Plate Screws
- (G) Grommet
- (H) Connector



### TOOLS NEEDED:

- Screwdriver
- Drill (If Necessary)
- 11/32" Drill Bit (If Necessary)

## Installation Instructions

### STEP 1. Select monitor location, plan out the cable route, install the cables

FIGURE 1

**Possible monitor mounting positions**  
(monitor appears larger for illustration purposes)



Place monitor (A) in desired location (dash or windshield) (Fig. 1) but do not permanently mount until later.

**WARNING:** DO NOT PLACE MONITOR WHERE AIR BAGS ARE LOCATED ON YOUR VEHICLE. Before selecting a location for the monitor please check to be sure the monitor does not obstruct your view while driving.

**For Vehicles WITH OEM 7 Blade Tow Package Connector** - (If your vehicle does NOT have an OEM connector please skip to the "For Vehicles WITHOUT OEM Connector" section)

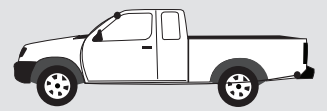
- 1) Connect installation cable (D) to monitor (A) and route the installation cables (D) to the back of vehicle stopping at the back side of the OEM connector on vehicle (Fig. 2).

**NOTE:** If additional length is needed call 800 835-0129.

- 2) Remove OEM plug from back side of the OEM connector on the vehicle.
- 3) Loosen gray tab, press down and pull out OEM plug on back side of connector.
- 4) Insert camera system OEM plug (H) into OEM connector. Secure gray tab.

FIGURE 2

Installation for Trucks



**For Vehicles WITHOUT OEM connector**

- 1) Cut/Remove OEM plug (H)
- 2) Connect installation cable (D) to monitor (A) and route the wires to the reverse light assembly (Fig. 3).
- 3) Locate the reverse light wire and splice the red wire to the reverse light wire. (Fig 4)
- 4) Locate the common/ground wire behind the tail light assembly and splice the black wire to the ground wire.
- 5) Reassemble tail light assembly and secure wires out of the way. Place cable clips (E) where needed.

FIGURE 3

Installation for Vehicles with License Plate on Lift Gate

Installation for Trucks

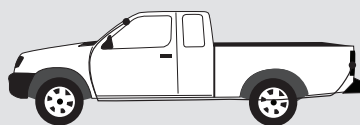
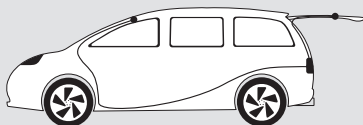


FIGURE 4



Locate the reverse light wire and splice the red wire to the reverse light wire

### STEP 2. Install the license plate bracket and camera

- 1) Remove license plate from the back of your vehicle
- 2) **IMPORTANT:** Unfold sensors from the back of the mounting bracket (C) and lock them in place. Ensure camera (B) is secured directly in the middle of the main bracket. This will ensure "hitch mode" works perfectly with your hitch when hitching to your trailer.
- 3) Place the mounting bracket (C) behind the license plate and make sure license plate fits behind the sensors.
- 4) Some vehicles may have a hole available to pass the wire through where the license plate is mounted or you can drill 11/32" hole close to where the power cable is attached to the mounting bracket (C). If you are going to drill a hole, remember to check the area to ensure nothing will be damaged behind the bumper while drilling.

- 5) Insert grommet (G) into the hole to protect the wire. Feed the wire from the bracket (C) through the hole.
- 6) Install the main bracket (C) with license plate to the back of your vehicle using license plate screws (F) included in the package. These screws are longer than standard license plate screws to help provide support and better attach the system to the vehicle.

### STEP 3. Connect the cables and secure the monitor

- 1) Connect wire from mounting bracket (C) to the wire coming from the monitor (A). This will provide power to the camera and sensors. Hide wire where convenient depending on vehicle type.
- 2) Place monitor (A) in desired location. Remove backing from foam tape and press down firmly to ensure the monitor is secure.



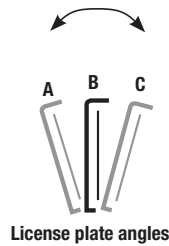
Secure license plate bracket with provided screws

### STEP 4. Positioning the adjustable sensors and camera

- 1) Measure from ground to the center line of the sensor. For an accurate measurement ensure your vehicle is on a level surface.
- 2) Identify the angle of your license plate. Stand to the side of your vehicle and see if the top of your license plate is angled (Backward, Flat, Forward).
- 3) Based off your sensor height from the ground and angle of licence plate, adjust the sensor setting according to the chart below. Adjust each sensor to the appropriate setting and tighten screws. Default setting for the sensors is setting 3.



Connect wire from main bracket to the wire coming from the monitor



License plate angles

Height	A	B	C
17.7 – 23.6 in (45–60 cm)	2	1	1
23.6 – 29.5 in (60–75 cm)	3	2	1
29.5 – 37.4 in (75–95 cm)	4	3	3
> 37.4 in (95 cm)	5	4	4

- 4) For camera (B), adjust the angle up/down to create maximum visibility behind your vehicle.
- 5) To ensure the sensors and camera are working correctly, slowly back toward a stationary object.

## HOW THE MONITOR WORKS



#### Everyday Mode:

SmartZone™ Sensing:

**Green** - 3.5 feet to 5.5 feet

**Yellow** - 1.5 feet to 3.5 feet

**Red** - 0 to 1.5 feet



#### Hitch Mode:

Simply press "IN" on the side button and press up or down on the button to activate hitch mode from "OFF" to "ON". Repeat process to go back to Everyday Mode.

#### Sound Volume

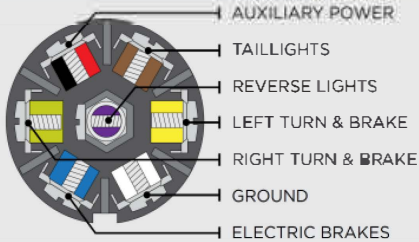
- 1) The volume can be turned up or down by pressing the side button "up" or "down". There are 4 volume levels (Mute, Low, Medium, High)

# VEHICLE AND TRAILER WIRING CODES

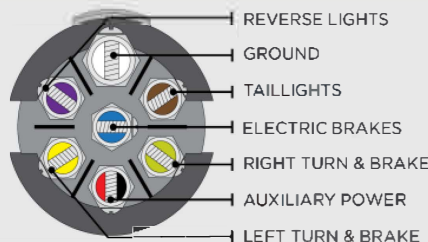
**IMPORTANT** - Identify the wires on your vehicle and trailer by function only. Color coding is not standard among all manufacturers. Illustrations represent the rear views of the connectors.



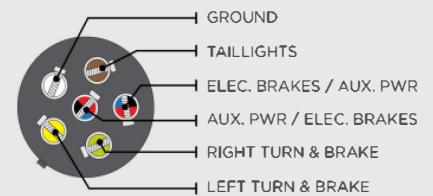
## VEHICLE SIDE



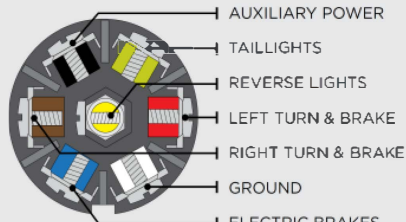
7 BLADE



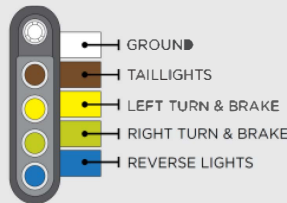
7 ROUND



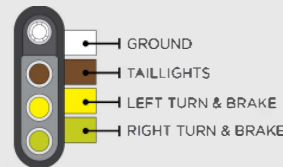
6 ROUND



7 BLADE (RV STANDARD)



5 FLAT

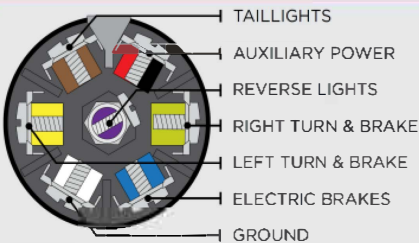


4 FLAT

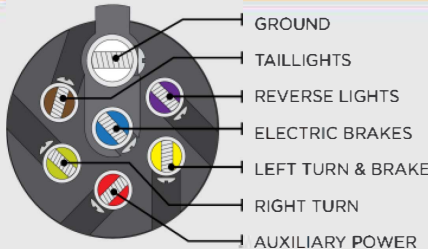


4 ROUND

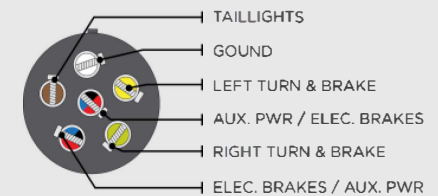
## TRAILER SIDE



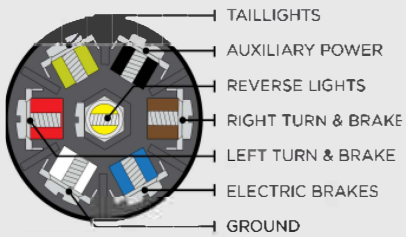
7 BLADE



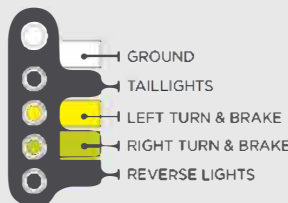
7 ROUND



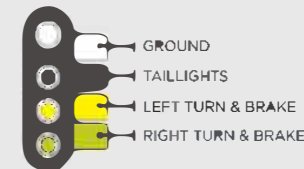
6 ROUND



7 BLADE (RV STANDARD)



5 FLAT



4 FLAT



4 ROUND

## 4 FLAT Y-HARNESS WIRING DIAGRAM

FOR PART 48240 48245  
NUMBERS 48255 48265

Time to wire up or rewire your trailer? A Y-Harness provides all the wire needed to get to every light on your trailer.

