

REARSIGHT CAMERA SYSTEM

250-8140A Installation Instructions

Parts Identification	Page 1
Vehicle Preparation	Page 1
System Layout	Page 2
Installation	Page 3
Testing and Reassembly	Page 4
Troubleshooting	Page 5

Parts Identification

Item	Qty.	Part Number	Description
1	1	250-8140	CCD baseplate camera, anchors, screws, and emblem
2	1	250-8505	Male DC power harness
3	1	N/A	Camera extension harness
4	1	250-8598	Sack Parts: Tie Straps, T-taps, Foam Tape



Vehicle Preparation

Before beginning your installation, familiarize yourself with the installation instructions and the RearSight camera system components.

To ensure your safety, **(A)** apply the emergency brake and **(B)** read this entire manual before beginning.



CAUTION: It is advisable to disconnect the negative battery cable for 3 minutes before beginning installation, to avoid unintended air bag deployment. Note and record any anti-theft radio codes prior to disconnecting.

System Layout

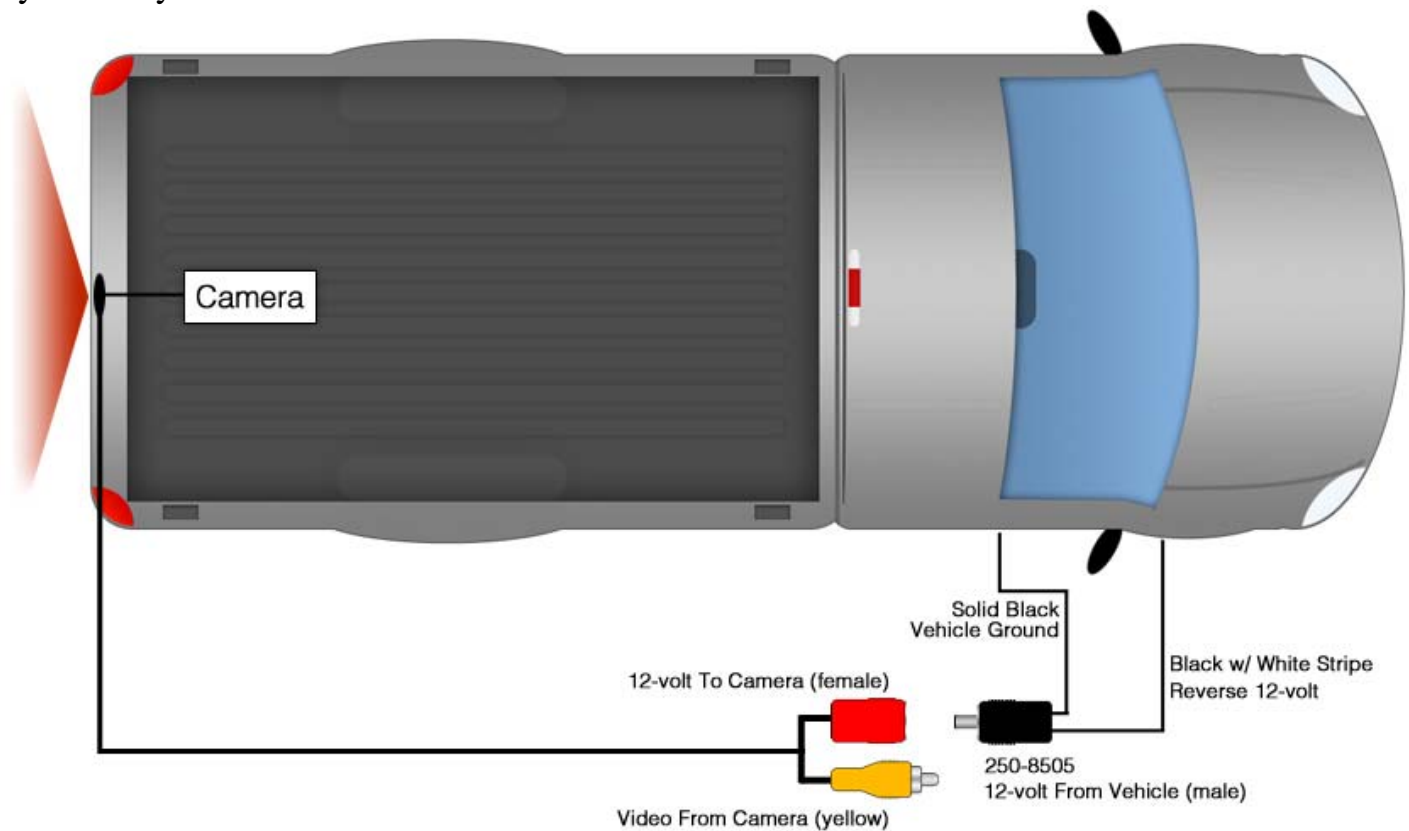


Figure 1



Figure 2

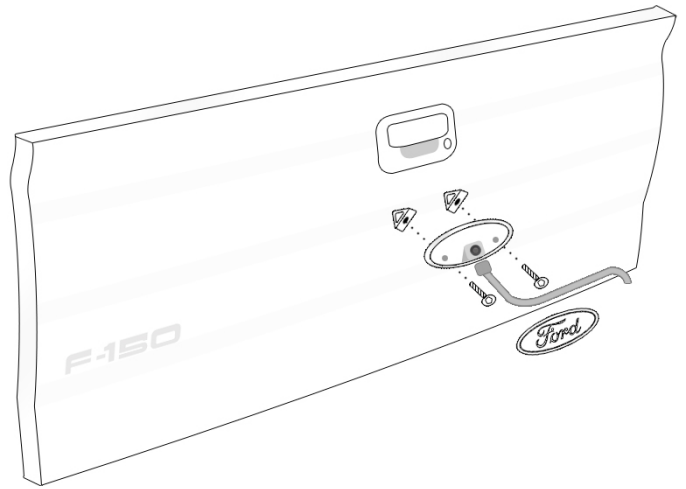
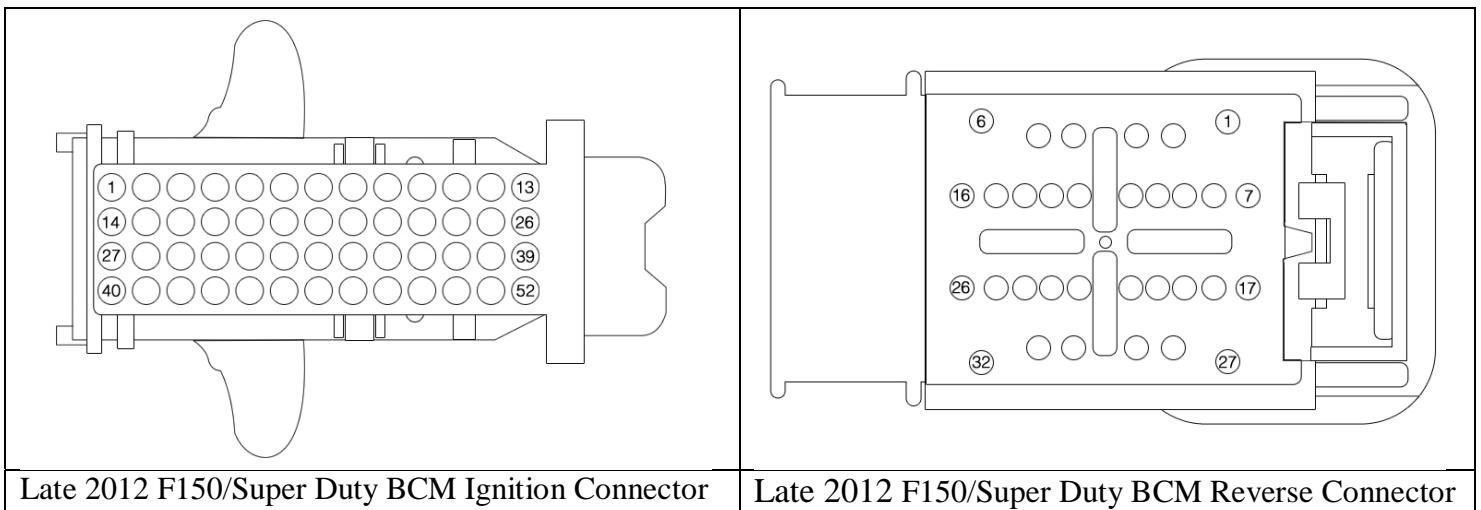


Figure 3

Installation

1. Using a trim tool, carefully remove the faceplate from the factory oval emblem in the tailgate (Figure 2). (**Note:** The faceplate uses a double-sided tape to attach the Ford emblem to its base.)
2. Remove the two screws fastening the factory oval baseplate to the tailgate (Figure 3). (**Note:** Factory mounting hardware may be unusable after removed. This kit includes new screws and anchors.)
3. With the baseplate and emblem removed, align the included drill template (Form #5424) to the mounting studs from the factory baseplate.

4. Drill and file the holes as outlined in the drill template.
5. Locate the baseplate/camera combination from this kit, its anchors, and screws.
6. Press the included anchors into the tailgate (location B from drill template).
7. Connect the camera extension harness to the baseplate camera.
8. Route the included camera extension harness through the tailgate and out the bottom opening on the passenger side (Figure 3).
9. Align the studs (location A from drill template) and holes of the camera baseplate (location B from drill template) to the previously drilled holes.
10. Use the included screws to fasten the baseplate to the tailgate/anchors.
11. Using the supplied sack parts, route the camera extension harness along the body of the vehicle, attaching it to the body or factory wiring harnesses along the way with the supplied cable ties.
12. Route the camera extension harness into the vehicle using the factory opening on the passenger side of the truck.
13. Remove the passenger-side kick panel housing. Connect the black with white strip wire from DC male power harness 250-8505 to the reverse power lead at the upper BCM connector. (**Note:** See below for connector view. See Page 4 for pin locations and wire colors. Installer should verify 12-volts when the vehicle is in reverse.)
14. Connect the solid black wire from DC male power harness 250-8505 to a chassis ground point at the kick panel.
15. Connect DC male power harness 250-8505 to the red female DC power connector from the camera extension harness
16. Connect the yellow male RCA connector to the RCA connector from your video display.



Model/Year	Wire Function	Location	Pin	Wire Color
F-150 2009 - (early) 2012	Ignition	Right Kick Panel	Pin 16	Blue or Blue/Red
	Reverse	Right Kick Panel	Pin 6	Blue
Super Duty 2009 - (early) 2012	Ignition	Right Kick Panel	Pin 2	Blue
	Reverse	Right Kick Panel	Pin 10	Green/Blue
F-150 (late) 2012	Ignition	Right Kick Panel	Pin 35	Violet/Green
	Reverse	Right Kick Panel	Pin 13	Blue/White
Super Duty (late) 2012	Ignition	Right Kick Panel	Pin 35	Violet/Green*
	Reverse	Right Kick Panel	Pin 13	Blue/White

* Vehicles equipped with a diesel engine use Yellow/Orange wire for ignition power.



Figure 4

Figure 5

Testing and Reassembly

Testing

1. Reconnect the negative battery cable and torque to 3 ft-lbs.
2. Re-enter any theft deterrent information (if applicable).
3. Turn the ignition switch to the ON position.
4. Shift the vehicle into reverse and confirm video feed to your device.

Note: If there is no picture present, re-check all harness connections.

Reassembly

1. Once the video is confirmed to be displaying at your monitor, attach the Ford emblem to the camera baseplate by allowing it to snap into place using its built-in connectors.
2. Reinstall all trim pieces taking special care to ensure harnesses and wiring connections are properly secured.
3. Make sure no harnesses are bent or pinched by trim pieces.
4. Reconnect all disconnected bulbs and check for function.

Troubleshooting

Camera Not Working	No Video	No Reverse Override
Verify 12-volts to 250-8505 black with white stripe wire.	Verify extension harness connection to camera.	Check connectivity of 250-8505 black with white stripe wire.
Verify ground < 10 Ohms resistance.	Verify harnesses are mated correctly at camera.	Verify extension harness connection to camera.
Verify secure connection to camera extension harness.	Verify 12-volts and ground connection at camera.	Verify power connections of your video monitor.