

Installation Instruction Overview - Rear Vision System Mirror Display 2007-2013 Chevy Silverado and GMC Sierra

(Kit Part numbers 9002-9503 without Compass/Temp and 9002-9504 with Compass/Temp)

REQUIRED CONNECTIONS

Kit #	Wire Color	Polarity	Function	Connection	Instruction Steps
9002-9503	Gray/Blue	+	Video Signal	Rear View Mirror Connector cavity 6	53 – 58
	Gray/Orange	-	Video Signal	Rear View Mirror Connector cavity 7	53 – 58
9002-9504	Gray/Blue	+	Video Signal	Rear View Mirror Connector cavity 1	53 – 58
	Gray/Orange	-	Video Signal	Rear View Mirror Connector cavity 2	53 – 58
9002-9503 & 9002-9504	Pink	+	Ignition	M-BEC C12 Brown Connector cavity 7	60 – 62
				Alternate connection: BCM X5 Brown Connector cavity 13	68
	Green	+	Reverse	M-BEC C11 Light Gray Connector cavity 5 OR M-BEC C10 Gray Connector cavity 8	63 – 67
				Alternate connection: BCM X5 Brown Connector cavity 11	68
Black	-	Ground	Lower knee bolster stud	69	

- Verify kit contents are complete. See complete instructions enclosed. For the latest full color instructions, as well as an installation video, please visit www.brandmotion.com
- If installing a 9002-9504 kit on a 2009 and up vehicle, purchasing a 9002-6008 kit (temperature harness) is required. Refer to Kit 9002-9511 instructions posted on www.brandmotion.com for complete installation procedure.
- Vehicles without an auto dimming mirror require purchasing a 9002-6105 kit (mirror harness). See Step 57 for install details.

Preparation (Steps 1 thru 4 in supplied complete kit instructions)

- 1-3 Turn lamps, accessories and ignition off. Disconnect negative battery cable.
4 Wait one (1) minute to assure the SIR roof rail air bag system is disabled before proceeding.

Install Camera Bezel into Tailgate (Steps 5 thru 29 in supplied complete kit instructions)

- 5-10 Lower tailgate to remove tailgate bezel and then remove tailgate and place on work surface.
11-17 Using the supplied Template, drill 29mm (1-1/8") hole(s) for camera grommets at the bottom of the tailgate and pickup box. If the pickup box already has an existing hole, remove its flange so the grommet will fit. Clean rough edges of drilled hole(s) using a deburring tool and then apply supplied anti corrosion coating.
18-20 Prepare the supplied Camera Bezel by transferring the vehicle's lock cylinder or installing supplied Lock Plug.
21-24 Route the camera harness through drilled hole in tailgate. Snap Camera bezel in place and seat grommet.
25-29 Remove rear license plate, if present. Reinstall tailgate, route the camera harness through the drilled pickup box hole and then seat the grommet into pickup box hole.

Determine Reverse Signal Location (Steps 30 thru 33 in supplied complete kit instructions)

- 30-31 Remove left instrument panel outer trim cover and M-BEC cover.
32 Have an assistant set parking brake, start vehicle, and shift into Reverse. Using a digital multimeter, check for reverse signal in Cavity 5 at the Light Gray C11/X11 Connector **OR** Cavity 8 of Gray C10/ X10 Connector in the M-BEC.
33 **If reverse signal is NOT present** in the C10/ X10 Connector or C11/ X11 Connector:
A. Check that bail that secures the M-BEC connectors is fully locked. Repeat Step 33.
B. If reverse signal is still not present, check Fuse Block for any blown fuses. Replace fuses and repeat Step 33.
C. **If reverse signal is still NOT present**, connection to reverse signal must be made at the BCM rather than C10/ X10 or C11/ X11 Connector (refer to Step 67 under "Connect Mirror Harness to Power, Reverse, and Ground").

Cut Accessory Pass Through In Front of Dash (Steps 34 thru 39 in supplied complete kit instructions)

- 34 Remove Parking Brake Release Handle Bolt and remove Handle. Remove two Knee Bolster screws, remove Knee Bolster, and Disengage M-BEC from support bracket.
35-37 Move M-BEC up into instrument panel to access front of dash matte opening to locate drilling location. Drill a 25.4mm (1") hole for grommet near existing dimple or existing grommet.
38-39 Clean rough edges of drilled hole(s) using a deburring tool, and apply supplied anti corrosion coating.

Install Mirror and Route Interior Harness (Steps 40 thru 51 in supplied complete kit instructions)

- 40 Unplug vehicle's Inside Rearview Mirror (ISRVM) connector.
41-45 Tilt mirror upward and loosen screw with a T20 Torx driver. Gently slide mirror upward to remove. Remove mirror wire cover.
46-51 Remove driver's side A-pillar trim, driver's side sunshade, and overhead console assembly.

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(Kit Part numbers 9002-9503 without Compass/Temp and 9002-9504 with Compass/Temp Plug Supplied Mirror Harness into Mirror Connector (Steps 52 thru 59 in supplied complete kit instructions)

- 52 Use a digital multimeter or computer safe test light to test cavity 9 for Reverse signal.
- If Reverse signal is present in cavity 9**, proceed to Step 53.
 - If Reverse signal is NOT present in cavity 9, check for wires in cavities 13 and 8. If cavities 13 and 8 do NOT contain wires**, proceed to Step 57.
 - If Reverse signal is NOT present in cavity 9 and cavities 13 and 8 contain wires**, remove and isolate any pin present in cavity 9. Figure 29. Then, plug the 16-pin terminal of the supplied Green 6' Wire into cavity 9. Next, splice the opposite end of supplied Green 6' Wire into the Green wire on the supplied Mirror Harness using solder and cover with heat shrink tubing (recommended) or using T-taps as an alternate method. Proceed to Step 53.
- 53 Unlock white TPA (Terminal Position Assurance) tab from vehicle's mirror connector.
- 54-56 Insert Gray/Dark Blue and Gray/Orange wires from supplied foam-wrapped mirror harness into vehicle's mirror connector according to chart on Page 1. NOTE: If wires exist in either of these cavities, remove and isolate.
- 57 **If your vehicle is NOT equipped with an auto dimming mirror and wires are NOT present in cavities 9, 13, or 8**, you must purchase a 9002-6105 harness separately from Brandmotion and connect it as follows:
- Insert Brown reverse terminal (if 6105 harness has gray jacket) or Green reverse wire (if 6105 harness has black jacket) from 6105 harness into cavity 9.
 - Insert Green ignition terminal (if 6105 harness has gray jacket) or Red ignition wire (if 6105 harness has black jacket) from 6105 harness into cavity 13.
 - Insert White ground terminal (if 6105 harness has gray jacket) or Black ground wire (if 6105 harness has black jacket) from 6105 harness into cavity 8.
 - Splice Brown reverse wire (if 6105 harness has gray jacket) or Green reverse wire (if 6105 harness has black jacket) at the RCA connector end of 6105 harness to the Green reverse wire of the supplied foam wrapped Mirror Harness.
 - Splice Green ignition wire (if 6105 harness has gray jacket) or Red ignition wire (if 6105 harness has black jacket) at the RCA connector end of 6105 harness to the Pink ignition wire of the supplied foam wrapped Mirror Harness.
 - Splice White ground wire (if 6105 harness has gray jacket) or Black ground wire (if 6105 harness has black jacket) at the RCA connector end of 6105 harness to the Black ground wire of the supplied foam wrapped Mirror Harness.
- 58-59 Press down on TPA device to lock wires into the vehicle's mirror connector, and route other end of the supplied mirror harness down the driver's side instrument panel near the A-pillar.

Connect Supplied Mirror Harness to Power, Reverse, and Ground (Steps 60 thru 69 in supplied complete kit instructions)

NOTE: Follow Steps 60-67 only if you located reverse signal at the C10/X10 or C11/X11 M-BEC Connector (Steps 30-33) . If reverse was not present, proceed to Step 68.

- 60-61 Remove brown C12/ X12 connector from M-BEC and remove the TPA from C12/ X12
- 62 Insert the Pink wire (ignition) from the supplied mirror harness into cavity 7, reinsert the TPA into Connector C12/ X12, and reinstall C12/ X12 connector into M-BEC. NOTE: Pickups with cooled seats require a Denali Jumper Harness, Brandmotion kit # 9002-6005, available separately.
- 63-65 Remove light gray C11/ X11 or gray C10/ X10 connector from M-BEC and remove TPA from C11/ X11 or C10/ X10 connector.
- 66 If cavity 5 is not populated, connect Jumper Harness to the black mirror harness connector, and insert Green wire of the Jumper Harness into cavity 5 of C11/ X11 Connector OR cavity 8 of C10/ X10 connector. Proceed to Step 68.
- 66 If cavity 5 is populated, remove the Blue wire from C11 connector cavity 5. Unlock the gray TPA on the black connector on the mirror harness. Insert Blue terminal into open cavity of the Jumper Harness. Slide gray TPA to lock the wires. Snap Jumper Harness onto the black mirror connector. Then, insert green Jumper Harness wire into C11/ X11 connector cavity 5.
- 67 Reinsert the TPA, and reinstall C11/ X11 connector back into the M-BEC. Proceed to Step 68.
- 68 **If all M-BEC connections were secure and no fuses were blown and reverse was still not present**, reverse must be located in the under dash BCM left of the steering wheel.
- Cut connector off Green Reverse (+) wire of Mirror Harness and splice to wire in Brown BCM X5 Connector Cavity 11.
 - Cut terminal off Pink ignition (+) wire of supplied Mirror Harness and splice to wire in Brown BCM X5 Connector Cavity 13.
- 69 Attach Ground eyelet on black wire of supplied Mirror Harness to lower knee bolster support bolt with supplied Ground Nut.

Install Supplied Rear View Mirror (Steps 70 thru 80 in supplied complete kit instructions)

- 70-72 Insert vehicle's mirror connector into the supplied Mirror, slide the Mirror on the windshield mounting tab, and torque the screw to 1.8 Nm (16 lb-in)—do not exceed 2.2 Nm (19.5 lb-in).
- 73-80 Lower the front of the headliner and route supplied mirror harness toward A-pillar. Reinstall mirror wire cover, overhead console assembly and driver's side sunshade.

Install Chassis Harness (Steps 81 thru 98 in supplied complete kit instructions)

- 81-87 Locate longer Chassis Harness from kit. Route the grommet end of Chassis Harness through drilled hole in the front of dash, seat the grommet, and connect to the supplied mirror harness. Reinstall MBEC and MBEC cover.
- 88-89 Route the Chassis Harness towards the rear of the vehicle and along the vehicle's chassis harness.
- 90 Connect the supplied Chassis Harness to the supplied camera harness.
- 91 Secure supplied harnesses to existing harness using supplied Wire Ties every 200mm (approx. 8").
- 92-98 Reinstall negative battery cable and test system. Secure the mirror harness to existing wiring in the A-pillar and dash using supplied Wire Ties. Reinstall remaining previously removed interior parts.