



Park Assist Retrofit

Classification	Parts and Accessories Bulletin	Section/Group	17 - Electrical	Country/Region	North America, Europe
Year	2012-2013	Model	Model S	Version	All

Bulletin Classification: *This bulletin provides instructions and guidelines for a vehicle procedure that is not the result of a defect. This bulletin might not be VIN-specific. These instructions assume knowledge of motor vehicle and high voltage electricity repairs, and should only be executed by trained professionals. Tesla assumes no liability for injury or property damage due to a failure to properly follow these instructions or repairs attempted by unqualified individuals.*

This Service Bulletin supersedes SB-14-17-001 R1, dated 26-Nov-14. Each content change is marked by a vertical line in the left margin. Discard the previous version and replace it with this one.

This bulletin contains instructions to retrofit the park assist option onto existing vehicles. Before performing this procedure, a Tesla Approved Body Shop must paint:

- The front fascia to match the rest of the body.
- The rear fascia to match the rest of the body.
- 6 park assist sensors to match the rest of the body.
- 2 park assist sensors to match the front fascia applique (nosecone).

⚠ CAUTION: Not all vehicles can be retrofitted:

- Vehicles built after August 1, 2013 cannot be retrofitted.
- Vehicles with the VINs listed at the end of this document cannot be retrofitted.

Required Part(s):	Part Number	Description	Quantity
	1014386-00-A	ECU, PARK ASSIST	1
	1008903-00-B	BRACKET, PARK ASSIST/BLINDSPOT ECU	1
	1006521-00-A	RVT PUSH-PULL 8X18X20.0	6
	1013805-00-A	NUT,T5,HF,PLASTIC,THREADED	4
	1014388-00-A	SENSOR,PARK ASSIST-UNPAINTED,KTL+PRIMER	8
	1030348-00-A	UPA FRONT FASCIA SERVICE KIT	1
	1052917-00-A	ASY, REAR FASCIA, 4 PARK ASSIST, SRVC	1
	1004420-03-H	ASY,HRN,BUMPER,FR,MDLS,PARKING ASSIST	1
	1004421-03-N	ASY,HRN,MDLS,ALL,BUMP RR,PKA	1
	1030076-00-A	ASY,HARN,PKA SERVICE KIT	1
	1017412-02-A	ASY CTR APPLIQUE FR FASCIA NA W/ UPA	1
	1014395-01-A	RETAINER RING, DECOUPLING, BLACK	2 or 8*
	1014395-00-A	RETAINER RING, DECOUPLING, CLEAR	0 or 6*
	1056386-00-F	TESLA BADGE 'T' FRONT	If necessary
	1017414-00-D	FR FASCIA BRIGHT CARRIER NOTE: Necessary if the vehicle is equipped with a 1 st generation (ridged) front fascia applique (nosecone).	If necessary
	6005884-00-H	ASSY - BUMPER SYSTEM FR NA NOTE: Necessary for all Founder's, all U.S. Signature, all Release Candidate, and Production vehicles before P01550.	If necessary

*** For vehicles with the following colors, order 2 black rings and 6 clear rings:** Base White, Pearl White, Silver, Gray

*** For vehicles with the following colors, order 8 black rings:** Signature Red, Sunset Red, Green, Blue, Brown, Black

Correction Description	Correction	Time
Install Park Assist Sensors	S011417001	7.0
Replace Front Bumper Assembly and Install Park Assist Sensors	S021417001	7.75

Procedure

Install the Front Park Assist Sensors

1. Remove the front fascia from the vehicle (refer to Service Manual procedure 10011002).
2. Transfer all components from the old fascia to the new fascia except:
 - The front fascia applique (nosecone assembly).
 - The front bumper harness.
 - The front fascia brightwork carrier, if the vehicle originally had a nosecone with a ridge (Figures 1 and 2). In this case, install the new brightwork carrier onto the new fascia.



Figure 1 (Nosecone with ridge)



Figure 2 (Flat nosecone)

3. If the vehicle is a Founder's series vehicle, U.S. Signature series vehicle, Release Candidate (RC) vehicle, or has a production VIN before or equal to P01550, replace the front bumper assembly (refer to Service Manual procedure 10011102).
4. Install the 4 front park assist sensors: 2 into the sensor retainers on the front fascia, and 2 into the sensor retainers on the nosecone:
 - a. Place a retainer ring over the front of the sensor (Figure 3).

NOTE: If the color of the vehicle is Base White, Pearl White, Silver, or Gray, use the 2 clear rings on the sensors for the front fascia, and 2 black rings for the sensors on the nosecone.



Figure 3

b. Place the sensor into the retainer and push down evenly. The sensor snaps into place.

TIP: It might be helpful to use the handle of a screwdriver to evenly apply force to the sensor. Make sure that the retainer ring remains smooth and does not get pinched. If necessary, use a trim stick to smooth out the retainer ring (Figure 4).

! **CAUTION:** If the retainer ring is not smooth, the system produces a fault.

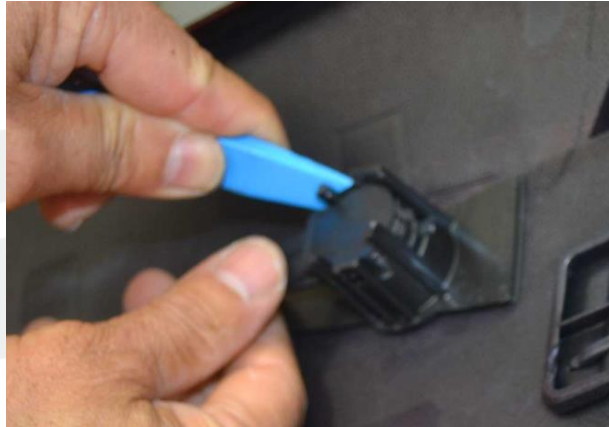


Figure 4

c. Inspect the sensor from the front and make sure that it is flush with the fascia.

5. Install the new front bumper harness by attaching the appropriate connectors to the park assist sensors, fog light assemblies, louvers, and body harness (Figures 5 and 6). Secure all clips as necessary.

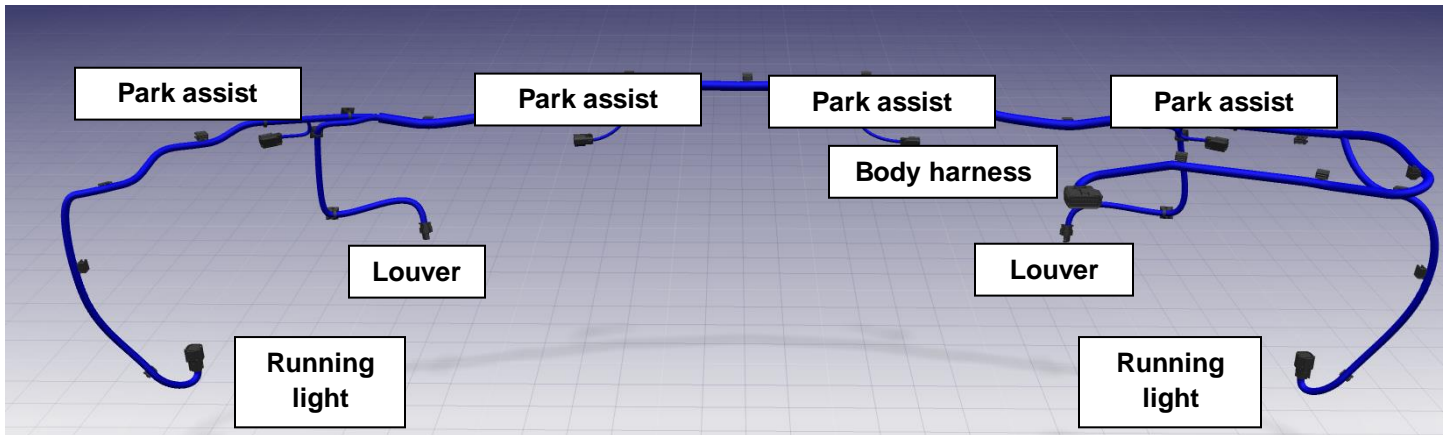


Figure 5

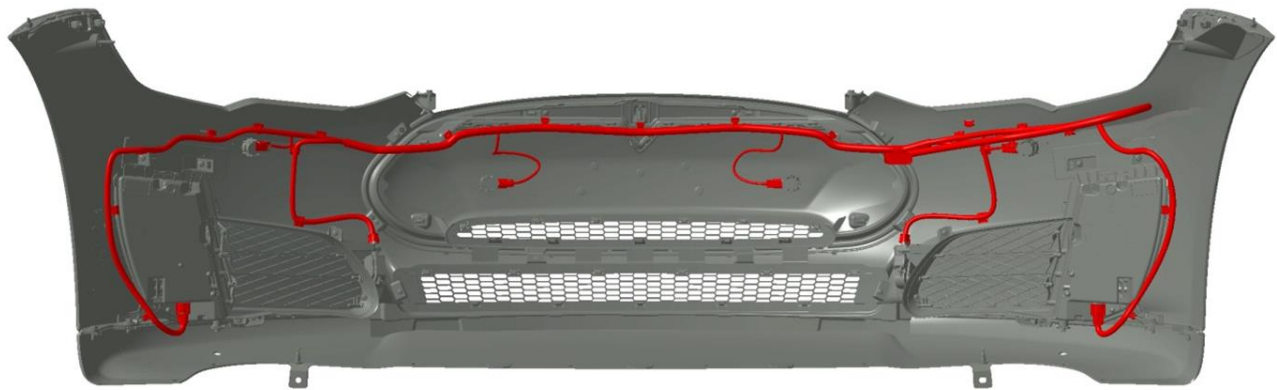


Figure 6

6. Install the new front fascia.

Install the Rear Park Assist Sensors

1. Remove the rear fascia assembly (refer to Service Manual procedure 10013002).
2. Install each of the 4 rear park assist sensors to the rear fascia:
 - a. Place retainer rings over the sensors.

NOTE: If the color of the vehicle is Base White, Pearl White, Silver, or Gray, use clear retainer rings for the sensors on the rear fascia. Otherwise, use black retainer rings.

- b. Place the sensor into the retainer and push down evenly. The sensor snaps into place.

NOTE: It might be helpful to use the handle of a screwdriver to evenly apply force to the sensor. Make sure that the retainer ring remains smooth and does not get pinched. If necessary, use a trim stick to smooth out the retainer ring (Figure 7).

⚠ CAUTION: If the retainer ring is not smooth, the system produces a fault.



Figure 7

- c. Inspect the sensor from the rear and make sure that it is flush with the fascia.
3. Secure all the harness clips to rear fascia. Leave the same amount of slack between each of the sensors (Figure 8).

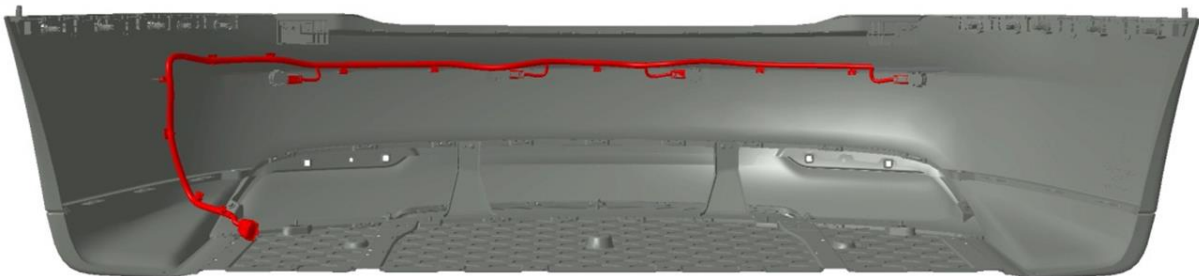


Figure 8

NOTE: Do not install the new rear fascia at this time.

Replace the Park Assist Harness Connector

NOTE: The park assist harness is part of the right side body harness, and is disconnected on vehicles that are not equipped with park assist sensors. Because the harness connector is exposed, it is possible that the connector has become corroded. The connector must be replaced even if no corrosion is visible.

1. Unclip the park assist harness connector branch from the RH underside of the body and cut the cable tie on the clip that is closest to the connector (Figure 9).

NOTE: Leave the clip attached to the vehicle; it will be reused later in this procedure.



Figure 9 (Harness branch highlighted in yellow)

2. Remove 50 mm of corrugated tubing from the park assist harness (Figure 10).

⚠ CAUTION: Do not damage any wires.

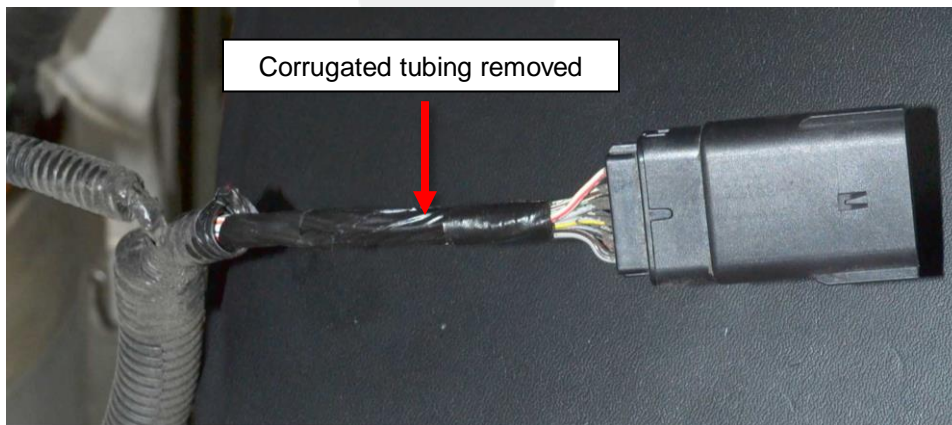


Figure 10

3. Remove the tape that secures the wires inside the old park assist harness (Figure 11).

⚠ CAUTION: Do not damage any wires.

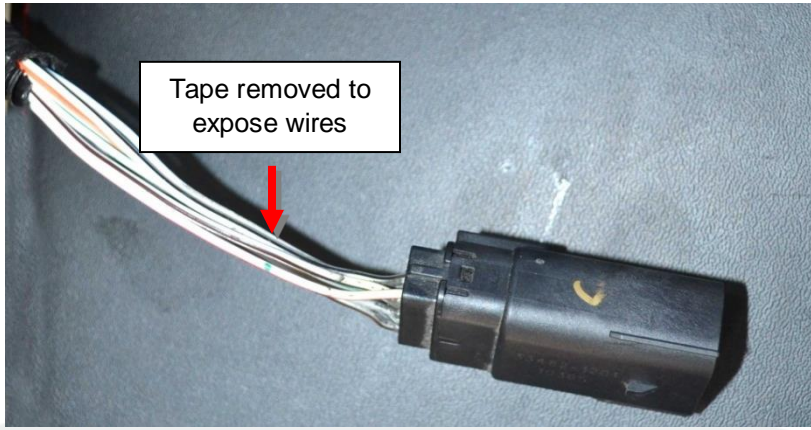


Figure 11

4. Remove the old park assist harness connector by cutting all 10 wires approximately 10 mm away from the connector (Figure 12).

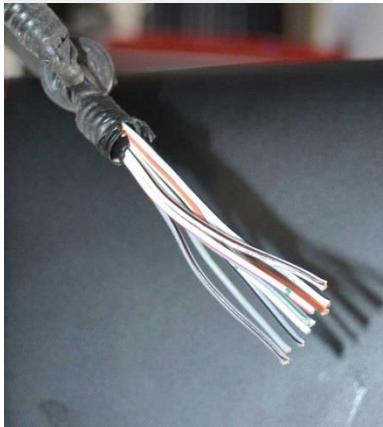
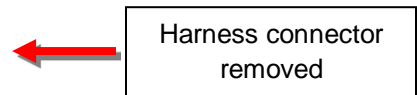


Figure 12



NOTE: The bodyside harness has 10 wires, but the new park assist harness connector only has 6 wires (Figure 13). Match the color of each wire on the new park assist harness with the corresponding wire on the vehicle-side harness.

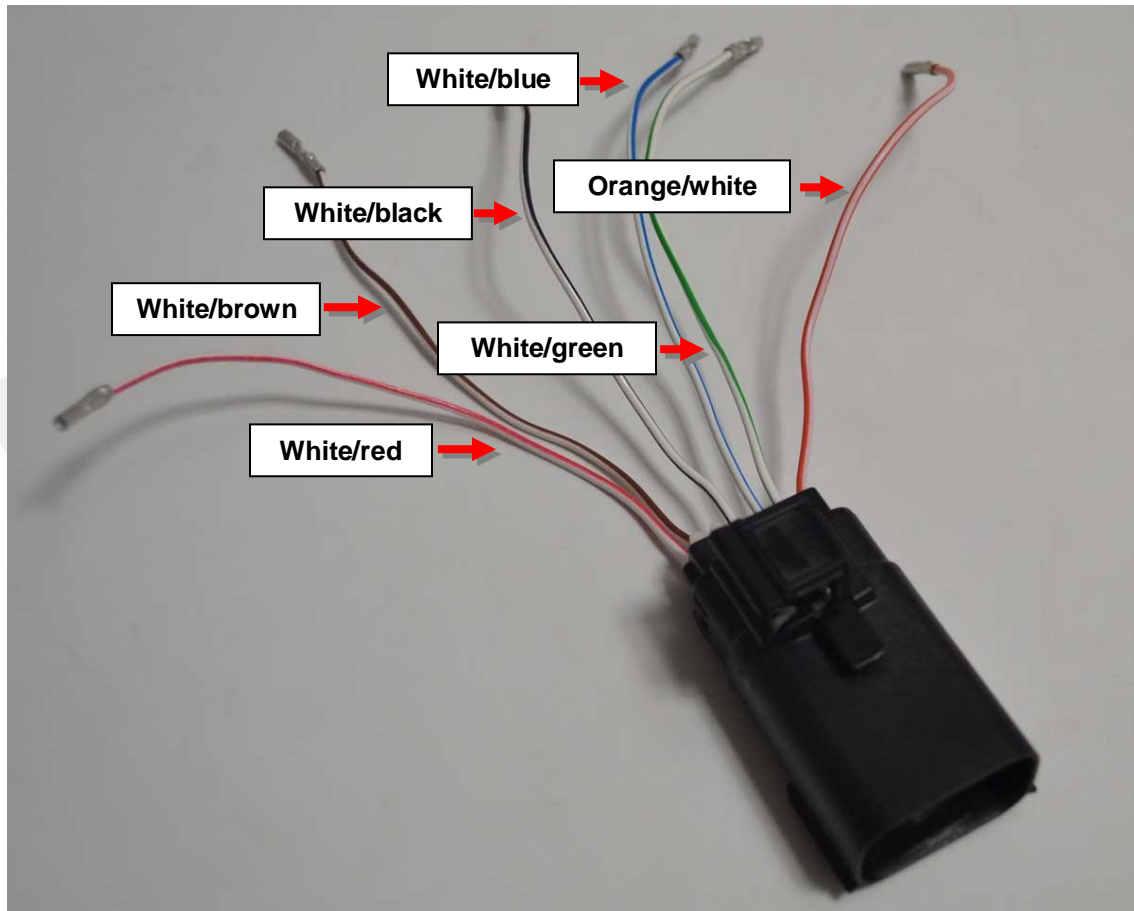


Figure 13

NOTE: Perform steps 5–12 for each of the 6 wires on the new park assist harness.

5. Use a wire stripper to remove approximately 5 mm of insulation from the end of the wire on the bodyside harness (Figure 14).

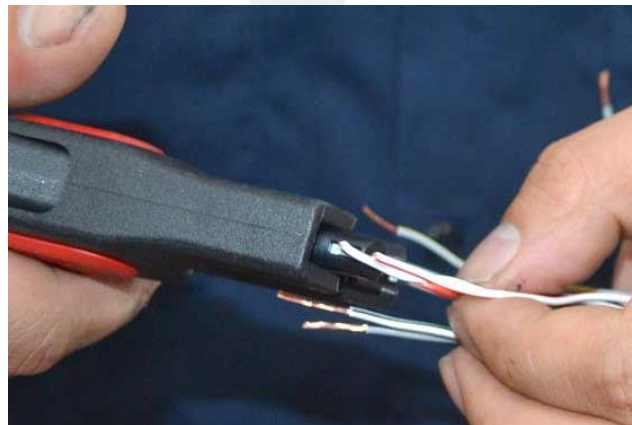


Figure 14

6. Place a heat shrink tube onto the wire on the bodyside harness.

NOTE: Keep the heat shrink tube away from the end of the wire at this time. It might be helpful to tape the tube in place or bend the wire to keep the tube out of the way during the next step.

7. Insert the exposed wire into the splice terminal on the new harness connector (Figure 15).



Figure 15

8. Crimp the wires inside the terminal (Figure 16).

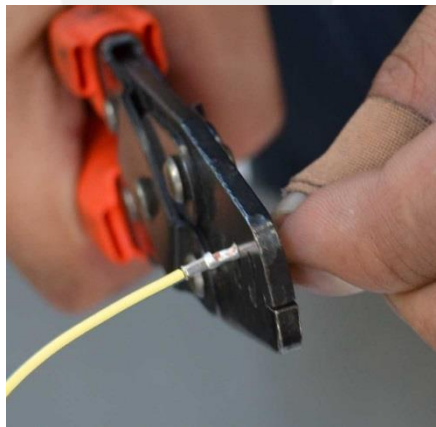


Figure 16

9. Use a soldering iron to heat both sides of the splice terminal.
10. Apply solder to the center window of the terminal, allowing it to flow to both crimped sides of the terminal. Make sure that the solder fills the window of the splice terminal.
11. Move the heat shrink tube over the splice terminal.

12. Use a heat gun to heat the shrink tube. The shrink tube contracts as heat is applied (Figure 17).

NOTE: A small amount of adhesive might drip out of the sides of the tube while heating.

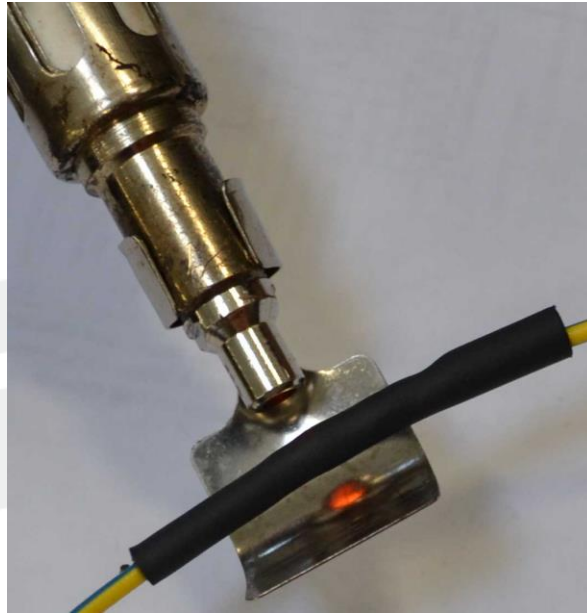


Figure 17

13. After all 6 wires have been crimped, soldered, and protected with shrink tubing, cut off the 4 unused wires from the bodyside harness.

14. Use electrical tape to hold the 6 wires together.

15. Install corrugated tubing over the wires. Apply electrical tape over the ends of the tubing to hold it in place.

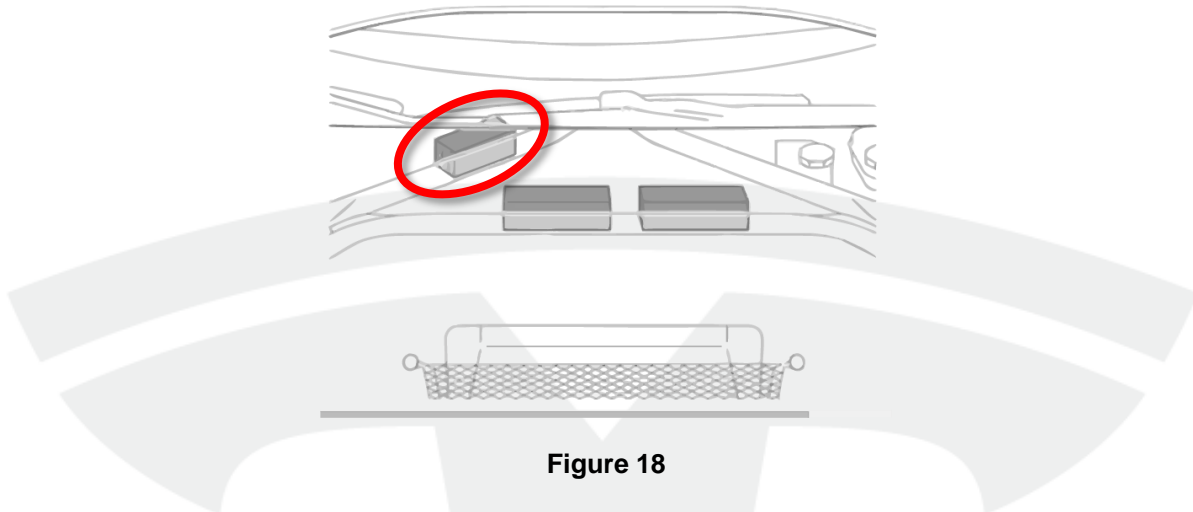
16. Use a new cable tie to attach the wire bundle to the clip on the vehicle body.

17. Secure the clip on the new park assist harness connector to the body.

NOTE: Do not install the new rear fascia at this time.

Install the Park Assist Fuse

1. Remove the center underhood apron (refer to Service Manual procedure 12251102).
2. Remove the cover from fuse box 1 (Figure 18).



3. Make sure that fuse F16 is securely installed (Figure 19). If not, install a new 5A fuse.

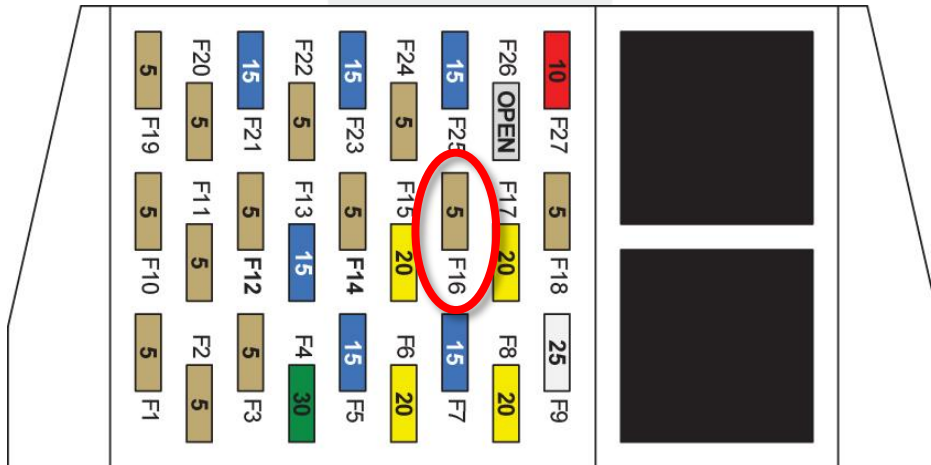


Figure 19

Install the Park Assist ECU

1. Remove the LH trunk trim panel (refer to Service Manual procedure 15245002).

2. Secure the park assist ECU inside the bracket with 3 push rivets (Figure 20). The rivets snap into place.

NOTE: Make sure that the ports on the ECU for the 3 harness connections line up with the hole in the bracket.

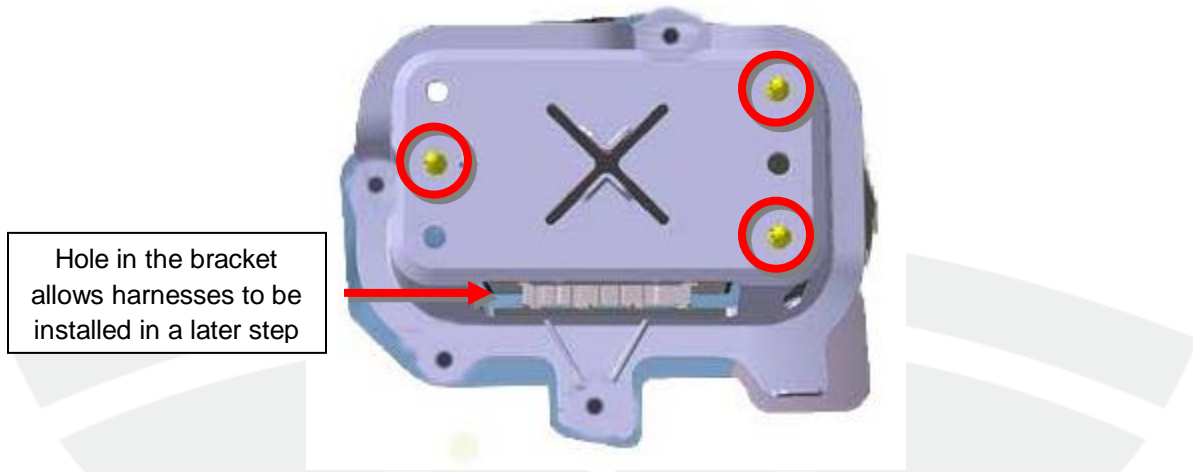


Figure 20

3. Install the bracket assembly to the studs on the rear of the LH wheelwell and secure the 4 nuts as shown (torque 3 Nm) (Figure 21). Make sure that the openings for the harness connections face downwards.



Figure 21

4. Locate the free end of the left side body harness that has 5 connectors. In some vehicles, the harness is clipped to the body.

5. Identify the 3 harness connectors that connect to the park assist ECU (Figure 22):

- The blue connector
- The shorter of the 2 gray connectors
- The longer of the 2 black connectors

⚠ CAUTION: The 2 black connectors and the 2 gray connectors are identical. Do not use the longer gray and shorter black connectors.

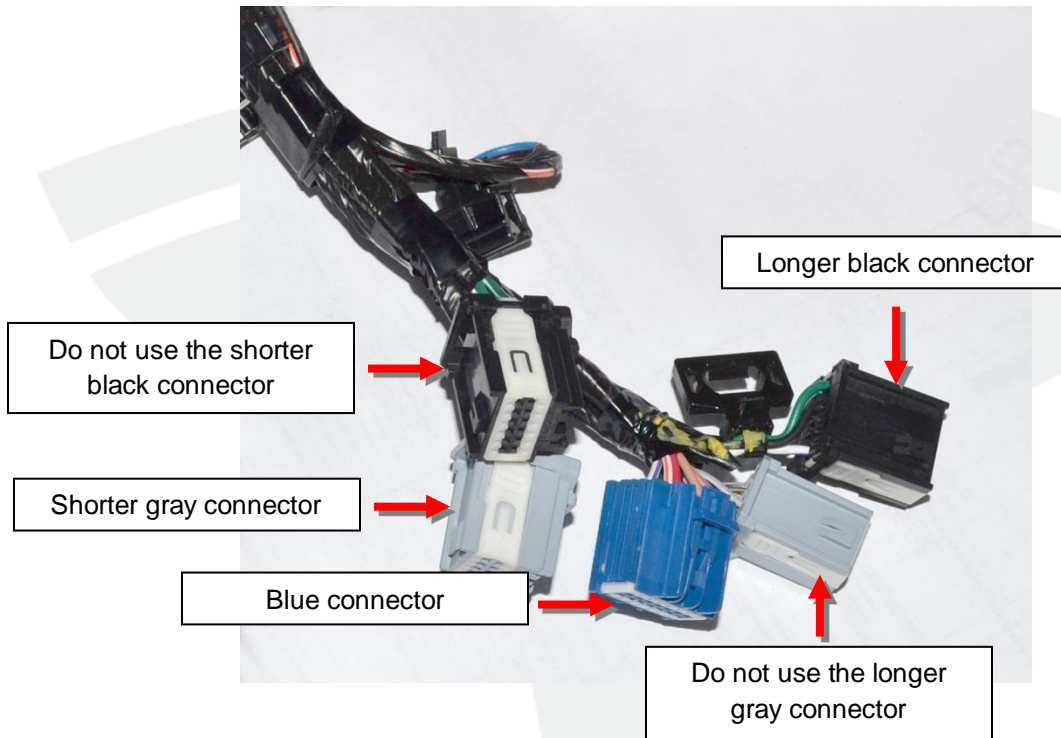


Figure 22

6. Install the 3 park assist harnesses to the ECU (Figure 23):
 - Secure the blue connector to the port on the LH side of the ECU.
 - Secure the shorter gray connector to the port in the center of the ECU.
 - Secure the longer black connector to the port on the RH side of the ECU.

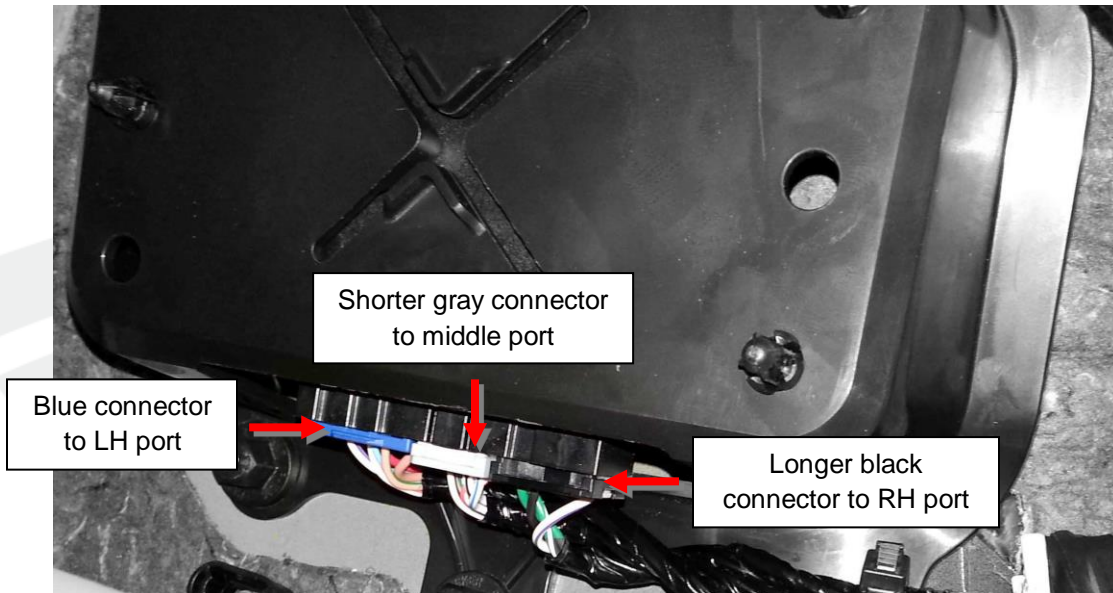


Figure 23

NOTE: Do not reinstall any components yet. Continue to the next section to verify that the park assist ECU was installed correctly.

Configure Park Assist

1. If the front bumper was replaced in the "Install the Front Park Assist Sensors" section, reconnect 12V power.
2. Connect a laptop with Toolbox to the vehicle.

NOTE: It is necessary to connect both the diagnostic cable and the chassis CAN cable.

3. Use Toolbox to change the "Park Assist Type" configuration variable to **Bosch 4.5**.

NOTE: If this step does not work, it is possible that the wrong harness was secured to the park assist ECU in the previous section. Try using the other gray and black harness connectors until Toolbox recognizes the park assist features.

4. Use Toolbox to update or redeploy the firmware.
5. Install the new rear fascia and all components that were removed for access.

6. Use Toolbox to perform the tasks listed below:
 - a. **Airbag Program** panel to reflash the Passive Safety Restraint Control Module (PSRCM).
 - b. **Park Assist VIN Learn** to reprogram the sensors.
 - c. **Park Assist Front Sensors** to perform a functional test of the front park assist sensors.
 - d. **Park Assist Rear Sensors** to perform a functional test of the rear park assist sensors.

Perform Functional Park Assist Tests and Reinstall Components

NOTE: If any of these tests fail, make sure that the parking sensors are mounted properly and that all harness connections are secure. If necessary, escalate a Toolbox session, as appropriate.

1. Verify the maximum range of the rear sensors:
 - a. Position the vehicle facing away from a flat wall. Make sure that the vehicle is perpendicular to the wall and far enough away from the wall that there are no alerts from the park assist system.
 - b. Slowly drive the vehicle in reverse towards the wall. Make sure that the vehicle remains perpendicular to the wall.
 - c. Stop the vehicle as soon as the park assist system alerts that there is an object behind the vehicle.
 - d. Exit the vehicle and verify that the distance between the wall and the centerline of the rear wheels is approximately 105 in (267 cm) (Figure 24).

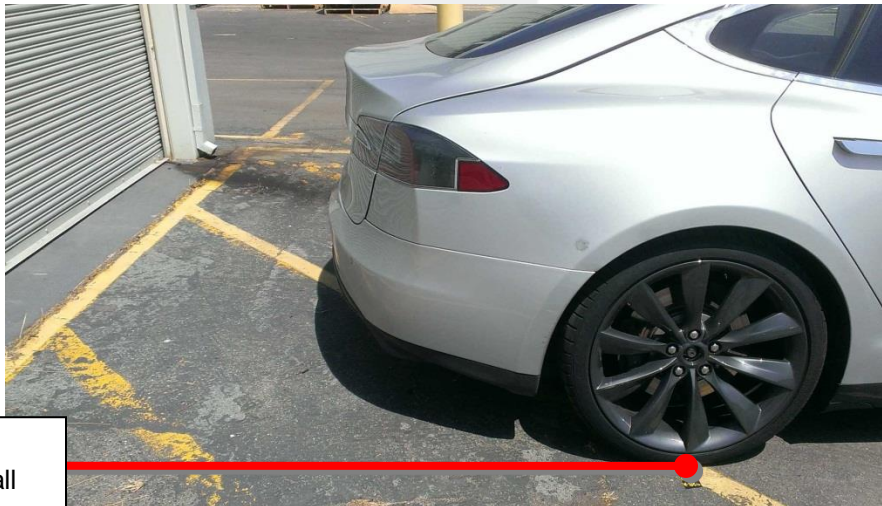


Figure 24

2. Verify the maximum range of the front sensors:
 - a. Position the vehicle so that it faces toward a flat wall. Make sure that the vehicle is perpendicular to the wall and far enough away from the wall that there are no alerts from the park assist system.
 - b. Slowly drive the vehicle towards the wall. Make sure that the vehicle remains perpendicular to the wall.

- c. Stop the vehicle as soon as the park assist system alerts that there is an object in front of the vehicle.
 - d. Exit the vehicle and verify that the distance between the wall and the contact patches of the front tires is approximately 80 in (203 cm).
3. Verify the maximum width of the rear sensors by driving the vehicle in reverse through a standard 2-post lift (Figure 25). Both the left and right park assist warnings appear on the instrument cluster.

NOTE: The maximum left and right range of each sensor is 50 cm.



Figure 25

4. Verify the maximum width of the front sensors by driving the vehicle forwards through a standard 2-post lift. Both the left and right park assist warnings appear on the instrument cluster.
5. Verify that short objects are detected by the rear sensors:
 - a. Place a soft object that is approximately 1 ft (30 cm) tall, such as a water jug or an empty bucket, approximately 5 ft (152 cm) behind the center of the vehicle.
⚠ CAUTION: Have an assistant stand outside the vehicle and provide signals as the vehicle gets closer to the object. Do not allow the vehicle to touch the object.
 - b. Drive the vehicle in reverse very slowly. Verify that park assist indicator on the instrument cluster displays a green warning. The warning turns yellow as the vehicle approaches the object, and then turns red. The word “Stop” also appears. Stop the vehicle as soon as the indicator turns red.
6. Verify that short objects are detected by the front sensors:
 - a. Place a soft object that is approximately 1 ft (30 cm) tall, such as a water jug or an empty bucket, approximately 5 ft (152 cm) in front of the center of the vehicle.
⚠ CAUTION: Have an assistant stand outside the vehicle and provide signals as the vehicle gets closer to the object. Do not allow the vehicle to touch the object.
 - b. Drive the vehicle forwards very slowly. Verify that park assist indicator on the instrument cluster displays a green warning. The warning turns yellow as the vehicle approaches the object, and then turns red. The word “Stop” also appears. Stop the vehicle as soon as the indicator turns red.
7. Reinstall all components that were removed for access.

Affected VIN(s)

This information is for reference purposes only. This list is not intended to be the sole information source for updates.

All Model S manufactured through July 2013, except for those listed below.

5YJSA1CP1DFP11556	5YJSA1CN9DFP12226	5YJSA1CN0DFP12597
5YJSA1CN6DFP11700	5YJSA1AG7DFP12228	5YJSA1CN4DFP12599
5YJSA1CN3DFP12058	5YJSA1DN4DFP12231	5YJSA1AG1DFP12600
5YJSA1CN1DFP12060	5YJSA1DP6DFP12233	5YJSA1BG5DFP12601
5YJSA1CN0DFP12065	5YJSA1DN1DFP12235	5YJSA1CN0DFP12602
5YJSA1DP8DFP12069	5YJSA1CN3DFP12237	5YJSA1CN2DFP12603
5YJSA1CP8DFP12073	5YJSA1AGXDFP12238	5YJSA1CN4DFP12604
5YJSA1CPXDFP12074	5YJSA1AG1DFP12239	5YJSA1DP6DFP12605
5YJSA1DN9DFP12077	5YJSA1DP0DFP12244	5YJSA1CP6DFP12606
5YJSA1DN6DFP12084	5YJSA1DP8DFP12248	5YJSA1DN1DFP12607
5YJSA1AC1DFP12092	5YJSA1AG0DFP12250	5YJSA1DP1DFP12608
5YJSA1DN7DFP12093	5YJSA1BG6DFP12252	5YJSA1DP3DFP12609
5YJSA1DN8DFP12099	5YJSA1CN7DFP12256	5YJSA1CP8DFP12610
5YJSA1BG0DFP12103	5YJSA1AG3DFP12257	5YJSA1DP3DFP12612
5YJSA1DN7DFP12112	5YJSA1CN9DFP12260	5YJSA1CN5DFP12613
5YJSA1CN7DFP12113	5YJSA1DN2DFP12261	5YJSA1DN9DFP12614
5YJSA1AG7DFP12116	5YJSA1CN2DFP12262	5YJSA1CN9DFP12615
5YJSA1CN6DFP12118	5YJSA1CN6DFP12264	5YJSA1DN2DFP12616
5YJSA1CP6DFP12119	5YJSA1DN3DFP12267	5YJSA1CN6DFP12619
5YJSA1BG2DFP12121	5YJSA1DN5DFP12268	5YJSA1CN4DFP12621
5YJSA1CG7DFP12128	5YJSA1CN5DFP12269	5YJSA1CN8DFP12623
5YJSA1AG2DFP12136	5YJSA1AG6DFP12270	5YJSA1AG4DFP12624
5YJSA1CGXDFP12141	5YJSA1CN3DFP12271	5YJSA1AG8DFP12626
5YJSA1DP5DFP12143	5YJSA1DN0DFP12274	5YJSA1AGXDFP12627
5YJSA1DN4DFP12147	5YJSA1DNXDFP12279	5YJSA1DG9DFP12629
5YJSA1CN4DFP12148	5YJSA1CN4DFP12280	5YJSA1CN5DFP12630
5YJSA1CN6DFP12149	5YJSA1DN8DFP12281	5YJSA1CG7DFP12632
5YJSA1DN4DFP12150	5YJSA1DNXDFP12282	5YJSA1AG9DFP12635
5YJSA1DP4DFP12151	5YJSA1CNXDFP12283	5YJSA1AG0DFP12636
5YJSA1DNXDFP12153	5YJSA1CPXDFP12284	5YJSA1CGXDFP12639
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5YJSA1CP4DFP12166	5YJSA1DN5DFP12576	5YJSA1DPXDFP12655
5YJSA1CP8DFP12168	5YJSA1DN7DFP12577	5YJSA1DP1DFP12656
5YJSA1CGXDFP12169	5YJSA1DP7DFP12578	5YJSA1CP1DFP12657
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