



High Speed Suspension Retrofit, Germany

Classification	Parts and Accessories Bulletin	Section/Group	31 - Suspension	Country/Region	Germany
Year	All	Model	Model S	Version	RWD

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 Motors assumes no liability for injury or property damage due to a failure to properly follow these instructions or repairs attempted by unqualified individuals.*

Tesla is offering a high-speed tuning retrofit to any German customer who requests it. The components included in this retrofit depend on the suspension type of the vehicle. This retrofit is available at no charge only to customers whose vehicles are registered in Germany; all other customers must pay the full cost of the retrofit.

Customer Interaction

Before performing this procedure, it is important to explain to the customer that the purpose of this retrofit is only to enhance stability at very high speeds, such as those that might occur on the Autobahn. As a result of this upgrade:

- Vehicles with coil suspension might experience stiffer ride quality, due to the addition of a sway bar.
- All non-Performance Plus vehicles will have slightly increased understeer at low and medium speeds, due to longer integral links.

After performing this procedure, inform customers that Tesla recommends the following tires to accompany this retrofit:

- 19 in wheels: 245/45R19 Goodyear Eagle RS-A2 or Michelin Pilot Sport 3
- 21 in wheels: 245/35R21 Continental Conti Sport Contact 5P MGT

Required Part(s):	Part Number	Description	Quantity
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Choose parts based on suspension type:

Coil Suspension

6007092-00-A	RR SUSP STABAR PASSIVE SUSP - S3, S2 W/ AIR	1
2007116	BOLT HF M10x1.50x30 [10.9]-U-MP-G720	2
6007100-00-A	RR SUSP STABAR LINK ASY	2
2007090-00-B	NUT HFPT M10x1.25 [10]-G720	4
2007061	BOLT H CAM M12x1.75x66 [10.9]-G720	0 or 2
2007062	WASHER CAM M12x30x4x2.5 [10]-G720	0 or 2
2007089	NUT HPT M12x1.75 [10]-G720	0 or 2

Air Suspension

1041574-00-0A	RR SUSP INTEGRAL LINK ASSY, AUTOBAHN	2
2007061	BOLT H CAM M12x1.75x66 [10.9]-G720	0 or 2
2007062	WASHER CAM M12x30x4x2.5 [10]-G720	0 or 2
2007089	NUT HPT M12x1.75 [10]-G720	0 or 2

Performance Plus Suspension

2007061	BOLT H CAM M12x1.75x66 [10.9]-G720	0 or 2
2007062	WASHER CAM M12x30x4x2.5 [10]-G720	0 or 2
2007089	NUT HPT M12x1.75 [10]-G720	0 or 2

These part numbers were current at the time of publication. Use the revisions listed or later, unless otherwise specified in the Parts Manual.

Correction Description	Correction	Time
High Speed Tuning Retrofit Germany, Coil Suspension Without Toe Link Bolts	S011531001	4.55
High Speed Tuning Retrofit Germany, Coil Suspension; Replace Toe Link Bolts	S021531001	4.7
High Speed Tuning Retrofit Germany, Air Suspension Without Toe Link Bolts	S031531001	4.0
High Speed Tuning Retrofit Germany, Air Suspension; Replace Toe Link Bolts	S041531001	4.6
High Speed Tuning Retrofit Germany, Performance Plus Suspension Without Toe Link Bolts	S051531001	3.65
High Speed Tuning Retrofit Germany, Performance Plus Suspension; Replace Toe Link Bolts	S061531001	4.25

Suspension Components

Vehicles with Coil Suspension

1. Remove the rear subframe assembly from the vehicle (refer to Service Manual procedure 30010201).
2. Install the rear sway bar (refer to the "Installation" section of Service Manual procedure 31033102).
3. Check for the VIN in the list at the end of this document. If it is present, replace the toe link bolts (refer to Service Manual procedure 31032002). If not, continue to the next step.
4. Reinstall all components that were removed for access. Skip to the "Tires" section of this document.

Vehicles with Air Suspension or Performance Plus

1. Replace the integral links (refer to Service manual 31034102).
2. Check the VIN list at the end of this document to determine whether the vehicle needs updated toe link bolts. If updated toe link bolts are required, continue to the next step. If not, skip to the "Tires" section of this document.

⚠ CAUTION: Only continue this procedure if the VIN is listed at the end of this document.

3. Remove the rear arch liners (refer to Service Manual procedure 12011102).
4. Remove the rear aero shield (refer to Service Manual procedure 12030501).
5. Remove the subframe shear plates by removing the nut (torque 35 Nm), 2 clips, and 3 screws (torque 4 Nm) that secure each shear plate to the subframe (Figure 1).

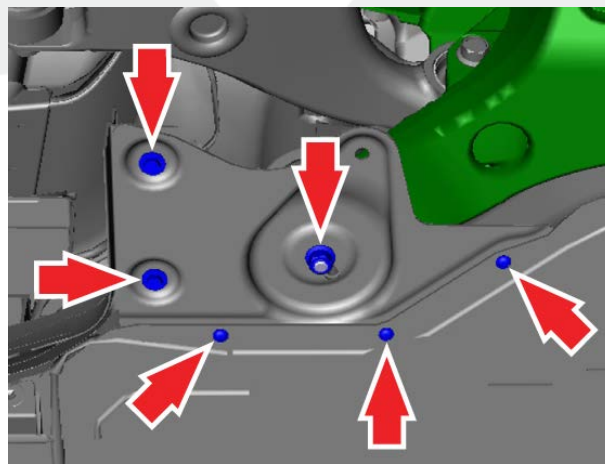


Figure 1

6. Position the subframe fixture beneath the subframe.
7. Lower the vehicle so that the subframe fixture supports the subframe.

8. Remove the nut and washer from the bolt that secures the toe link to the subframe (torque 80 Nm) (Figure 2).

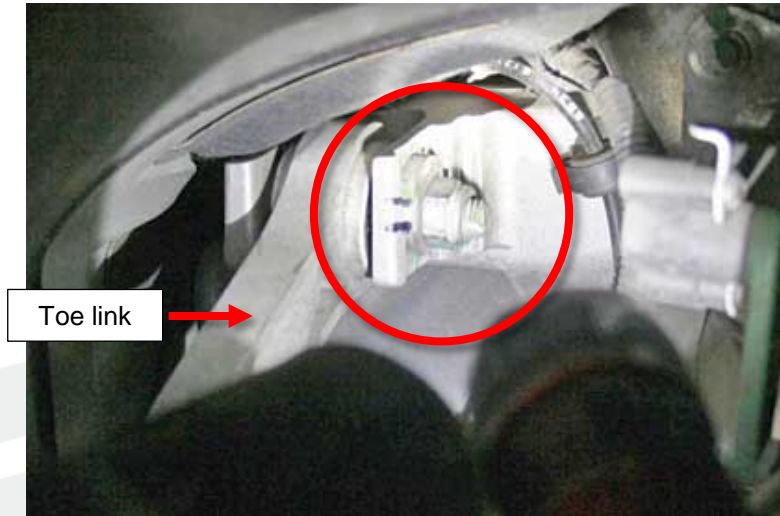


Figure 2 (LH side shown)

9. On the LH side of the vehicle, release the pipe retainer from the body stud (Figure 3).

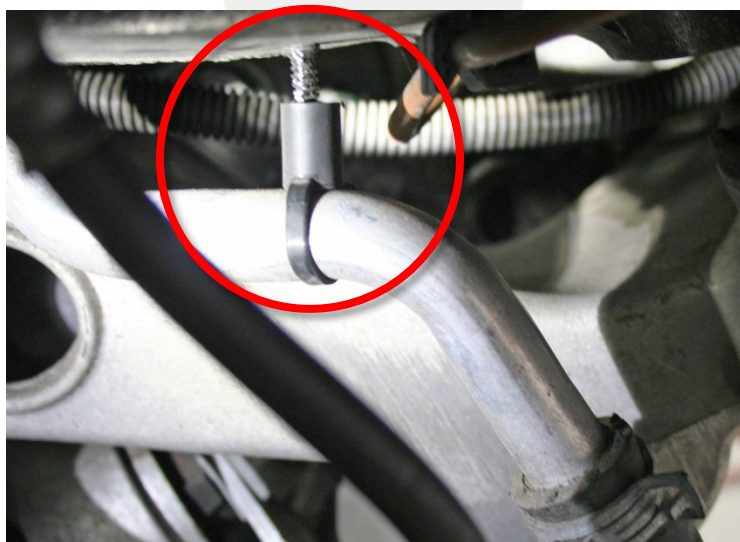


Figure 3

⚠ CAUTION: Ensure that the subframe is completely supported by the subframe fixture before continuing this procedure.

10. Release the 4 bolts that secure the subframe (torque 140 Nm).

⚠ CAUTION: While raising the vehicle in the next step, have an assistant carefully monitor the following components to ensure that they are not damaged:

- Brake hoses
- Air springs
- HV cables
- Drive Unit ground strap
- 12V harnesses on the rear of the drive unit

⚠ CAUTION: In the next step, do not raise the vehicle more than 50 mm.

11. Raise the vehicle 25–50 mm to provide enough clearance to remove the bolt that secures the toe link to the subframe.

NOTE: To determine how much the vehicle has been raised, measure the distance between the body and the bolt hole on the subframe (Figure 4).



Figure 4

12. Begin to remove the LH toe link bolt until the threads at the rear of the toe link are no longer visible.

TIP: As the bolt is removed, insert a punch or similar tool into the hole to maintain the alignment of the bolt holes in the toe link and the subframe (Figure 5). This makes installation of the new bolt easier.

TIP: It might be helpful to have an assistant pull the subframe towards the rear of the vehicle.

TIP: It is possible to either use a hammer to tap on the nut side of the bolt, or use a pry bar on the head of the bolt.

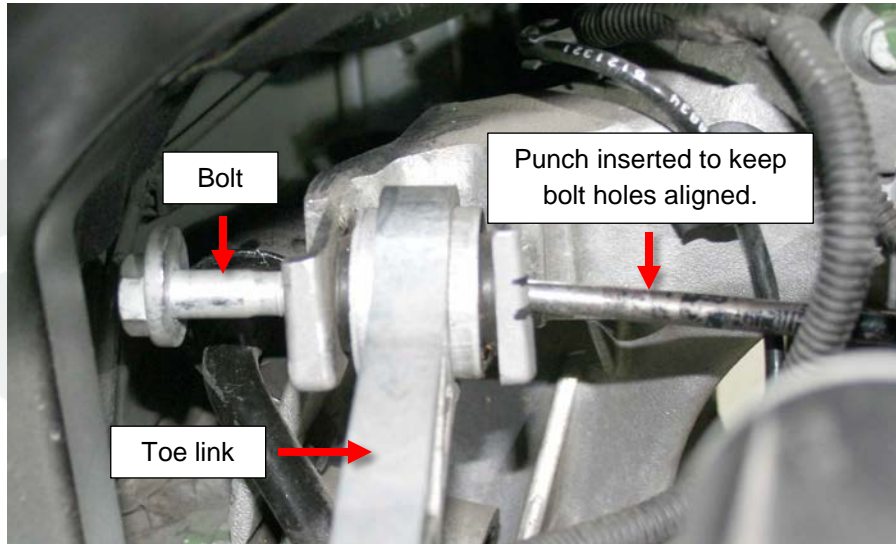
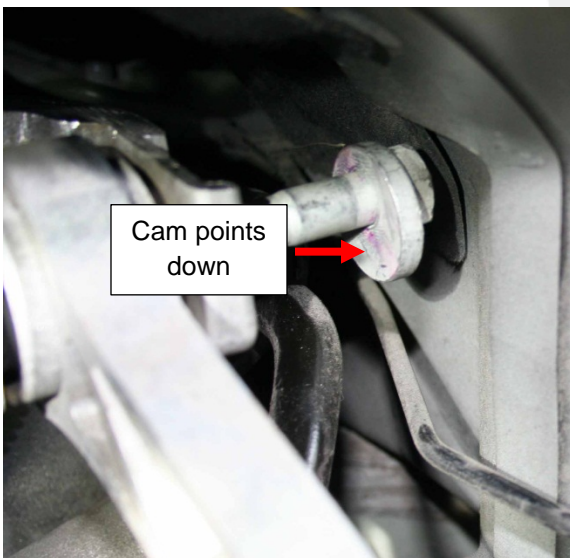
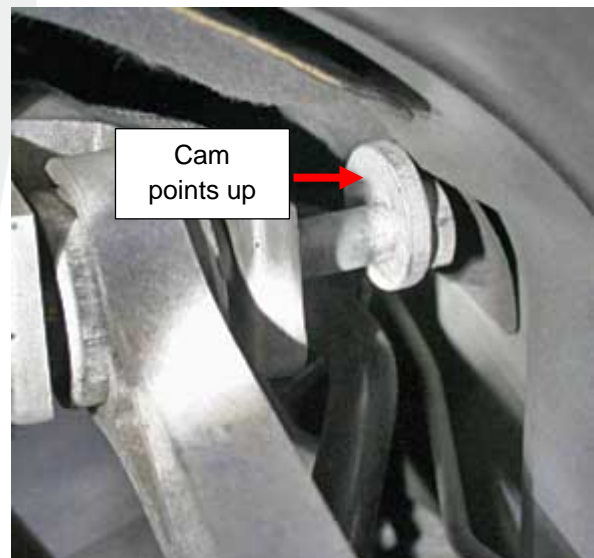


Figure 5

13. Rotate the LH toe link bolt so that the cam points down (Figures 6 and 7).



✓ Correct
Figure 6



✗ Incorrect
Figure 7

14. Have an assistant pull the subframe towards the rear of the vehicle. Use a pry bar to fully remove the bolt. Discard the bolt, nut, and washer.

15. Install the new bolt. Ensure that the entire cam rests within the notch on the subframe (Figures 8 and 9).



✓ Correct
Figure 8



✗ Incorrect
Figure 9

16. Install the new washer. Ensure that the flat side of the washer faces the subframe.

17. Loosely install the nut, but do not fully tighten it at this time.

18. Repeat steps 12–17 on the RH side of the vehicle.

19. Compress the suspension to normal ride height.

20. Tighten both toe link nuts (torque 80 Nm).

21. Resecure the pipe retainer to the body stud (Figure 3).

22. Reinstall the rear subframe.

Tire Pressures

1. Ensure that all 4 tires are correctly inflated (in the Service Manual, refer to General Information: > Technical Data > Tire Pressures).
2. Ensure that the TPMS thresholds are set correctly. To set the thresholds, refer to Service Manual Procedure 34015500. For the current TPMS thresholds, refer to General Information > Technical Data > Tire Pressures in the Service Manual.

Suspension Check

1. Perform a front suspension torque check (refer to Service Manual procedure 31019000).
2. Perform a rear suspension torque check (refer to Service Manual procedure 31039000).
3. If the vehicle is equipped with air suspension, perform a ride height adjustment (refer to Service Manual procedure 31001000).
4. Perform a full alignment (refer to Service Manual procedure 31000100).

Updating EPAS Firmware

NOTE: Before continuing, inspect the laptop's USB ports. Do not use a port with the "SS" symbol (Figure 10).



✗ Figure 10

1. Connect a laptop with Toolbox 2.0 or later to the vehicle.

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

2. In the top row menu, click the Steering icon. The EPAS Control panel opens.
3. Click the **Run** button and follow the onscreen instructions.

The following vehicles require toe link replacement:

5YJSA2CP2DFP11524	5YJSA2DP5DFP17378	5YJSA2DN7DFP18188
5YJSA2DP0DFP13044	5YJSA2DP7DFP17379	5YJSA2DP5DFP18191
5YJSA2DP2DFP13739	5YJSA2DP3DFP17380	5YJSA2DN2DFP18194
5YJSA2DP9DFP13740	5YJSA2DP5DFP17381	5YJSA2DP7DFP18208
5YJSA2DP2DFP13742	5YJSA2DP5DFP17753	5YJSA2DP7DFP18225
5YJSA2DP8DFP14328	5YJSA2DP6DFP17776	5YJSA2DP1DFP18236
5YJSA2DP9DFP16430	5YJSA2DP8DFP17780	5YJSA2DP4DFP18635
5YJSA2DP2DFP16494	5YJSA2CP4DFP17857	5YJSA2DP1DFP18639
5YJSA2DP7DFP16510	5YJSA2DP6DFP17860	5YJSA2DPXDFP18641
5YJSA2CP9DFP16705	5YJSA2DN7DFP17865	5YJSA2DP1DFP18642
5YJSA2DN7DFP16716	5YJSA2DN8DFP17910	5YJSA2DP3DFP18643
5YJSA2DP9DFP16721	5YJSA2CN0DFP17966	5YJSA2DN0DFP18694
5YJSA2DN1DFP16730	5YJSA2DP2DFP17967	5YJSA2DP8DFP18718
5YJSA2DPXDFP16873	5YJSA2CN7DFP17981	5YJSA2CN7DFP18726
5YJSA2DN0DFP16914	5YJSA2DP4DFP17985	5YJSA2DN6DFP18750
5YJSA2DP3DFP17119	5YJSA2CPXDFP17989	5YJSA2DN6DFP18764
5YJSA2DP5DFP17123	5YJSA2CG6DFP17990	5YJSA3H14EFP18776
5YJSA2DP7DFP17124	5YJSA2DPXDFP17991	5YJSA2DN3DFP18835
5YJSA2DP9DFP17125	5YJSA2CG0DFP17998	5YJSA2H14EFP18867
5YJSA2DP2DFP17127	5YJSA2DN6DFP17999	5YJSA2DP6DFP18961
5YJSA2DP6DFP17129	5YJSA2DN6DFP18005	5YJSA2DP9DFP18968
5YJSA2DP6DFP17132	5YJSA2DP8DFP18007	5YJSA2DN0DFP18971
5YJSA2DP5DFP17140	5YJSA2DNXDFP18010	5YJSA2DN2DFP18972
5YJSA2DP2DFP17144	5YJSA2DGXDFP18011	5YJSA2DN8DFP18989
5YJSA2DP4DFP17145	5YJSA2CN1DFP18012	5YJSA2DG8DFP18993
5YJSA2DP8DFP17181	5YJSA2DP5DFP18014	5YJSA2DP8DFP19027
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5YJSA2CP9DFP17188	5YJSA2DN0DFP18162	5YJSA2CG1DFP19033
5YJSA2DP2DFP17189	5YJSA2DN1DFP18171	5YJSA2H10EFP19059
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5YJSA2H18EFP19374
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5YJSA2H18EFP19391
5YJSA2DPXDFP19417
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5YJSA3H1XEFP30852
5YJSA3H11EFP30853

5YJSA3H15EFP30855	5YJSA3H17EFP31702	5YJSA2DP5DFS15146
5YJSA3H17EFP30856	5YJSA3H14EFP31706	5YJSA2DP5DFS15258
5YJSA3H14EFP30863	5YJSA3H16EFP31982	5YJSA2DP1DFS15371
5YJSA3H1XEFP30866	5YJSA3H18EFP32048	5YJSA2DPXDFS15384
5YJSA3H13EFP30868	5YJSA3H13EFP32183	5YJSA2DP4DFS15865
5YJSA3H18EFP30879	5YJSA3H10EFP32206	5YJSA2DPXDFS15868
5YJSA3H16EFP30881	5YJSA3H11EFP32392	5YJSA2DP7DFS15875
5YJSA3H13EFP30885	5YJSA3H17EFP32395	5YJSA2DP0DFS15877
5YJSA3H18EFP30896	5YJSA3H12EFP32434	5YJSA2DP5DFS15891
5YJSA3H1XEFP30902	5YJSA3H16EFP32565	5YJSA2DP8DFS15898
5YJSA3H16EFP30914	5YJSA3H16EFP32677	5YJSA2DP0DFS15913
5YJSA3H15EFP30919	5YJSA3H14EFP32709	5YJSA2DP8DFS15934
5YJSA3H11EFP30920	5YJSA3H19EFP33645	5YJSA2DN9DFS15956
5YJSA3H19EFP30924	5YJSA3H16EFP49303	5YJSA2DN5DFS16005
5YJSA3H13EFP30935	5YJSA2DN6DFS13047	5YJSA2DP0DFS16012
5YJSA3H13EFP30949	5YJSA2DP2DFS14911	5YJSA2DP1DFS16021
5YJSA3H1XEFP30950	5YJSA2DP8DFS14945	5YJSA2DP5DFS16703
5YJSA3H17EFP30954	5YJSA2DNXDFS14962	5YJSA2DP0DFS16740
5YJSA3H17EFP30968	5YJSA2DP1DFS14964	5YJSA2DP5DFS16751
5YJSA3H15EFP30970	5YJSA2DP5DFS14983	5YJSA2DPXDFS16762
5YJSA3H17EFP30971	5YJSA2DP8DFS15027	5YJSA2DP9DFS16767
5YJSA3H19EFP30972	5YJSA2DP6DFS15043	5YJSA2DN5DFS16795
5YJSA3H14EFP30975	5YJSA2DP8DFS15044	5YJSA2DP0DFS16799
5YJSA3H16EFP30976	5YJSA2DP0DFS15054	5YJSA2DP1DFS16830
5YJSA3H18EFP30977	5YJSA2DP6DFS15074	5YJSA2DP9DFS17899
5YJSA3H18EFP30980	5YJSA2DP9DFS15120	5YJSA2DP7DFS17903
5YJSA3H1XEFP30981	5YJSA2DP2DFS15122	5YJSA2DP5DFS17947
5YJSA3H11EFP30982	5YJSA2DP8DFS15139	

Affected VIN(s) Any customer whose vehicle is registered in Germany is eligible to receive this retrofit free of charge. Customers with vehicles in all other regions are charged full price.

NOTE: This is a simplified summary of the affected VIN list. Refer to the VIN/Bulletin Tracker or Customer/Vehicle profile to determine applicability of this bulletin for a particular vehicle.

For feedback on the accuracy of this document, email ServiceBulletinFeedback@teslamotors.com.