

Technical Information

Service 1/15 ENU

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AF01

AF01 - Replacing Lower Suspension Arms for Front Axle (Recall Campaign)

Revisions:	Revision 1: February 10, 2015 - This revision amends the "Tools" section of AF01. Specifically, Tool VAS6828 is now followed by an parenthesized reference as follows: VAS6828 (PNA 932 301 200)
	Revision 2: March 18, 2015 - This revision amends Attachment "B" Information section concerning invoicing and damage codes, and, includes a PQIS job line screen shot.
Model Year:	2015
Vehicle Type:	918 Spyder
Concerns:	Lower suspension arms for front axle
Information:	The front axle of the Porsche 918 Spyder was fitted with lower suspension arms from a batch whose durability cannot be guaranteed due to a manufacturing error.
	The affected components can start to crack, causing the component to break and as a result, vehicle handling can be impaired.
Action Required:	Replace lower suspension arms for front axle.
Service Level:	i Information

This campaign must be carried out by a Service Level 2 Porsche Dealer.

Service Level 0 or 1 Dealers are NOT authorized to carry out this campaign. In accordance with the service concept for the 918 Spyder, the vehicle must be transferred to a Service Level 2 Dealer in order to carry out this recall. If the vehicle should require transport from your dealership to a Level 2 Dealer and transportation has not previously been arranged by the 918 Client Relationship Team, you should contact Roadside Assistance at 1-844-918-SPYD (7793) to facilitate the transfer. Instructions for claiming the appropriate transport costs are outlined in Attachment B. Further information can be found under Attachment "B" at the end of this document.

The vehicle must be checked for defects and damage **each time** it is handed over, transferred or delivered. Confirmation that the vehicle is in good condition or details of any damage to the vehicle must be documented and archived for feedback purpose.

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Affected Vehicles:	vehicle.	This campai	ecked by using PIWIS Vehicle In gn is scope specific to the VIN! n affects 44 vehicles in North <i>F</i>	Failure to verify in PIWIS may	1 0
Parts Info:		NOTE: PARTS WILL NOT BE AUTOMATICALLY ALLOCATED TO YOUR DEALERSHIP. ALL PARTS MUST BE ORDERED VIA A PTEC/PAV.			
	Part N	0.	Designation		Qty.
	918.34	1.053.01	\Rightarrow Lower suspension arm fo	r front axle	2 ea.
	The follo	wing parts a	re also required for each veh	icle:	
	• Veh	icles with Ra	icetrack (Weissach) packag	je (I-no. 808) :	
	Part N	0.	Designation – Use		Qty.

Part No.	Designation – Use		Qty.
000.043.209.95	\Rightarrow Set of fastening parts for Racetrack (W package – Lower suspension arm for front axle	eissach)	2 ea.
Contains:			
999.311.502.02	Fit bolt, M12 x 1.5 – Lower suspension arm to auxiliary support	2 ea.	
999.311.604.02	Fit bolt, M10 x 1.5 x 81 - Tie rod to wheel carrier	1 ea.	
999.311.606.02	Fit bolt, M10 x 1.5 x 72 – Spring strut to lower suspension arm	1 ea.	
999.311.602.02	Fit bolt, M10 x 1.5 x 65 – Upper suspension arm to wheel carrier	1 ea.	
999.073.572.01	Lens-head screw, M6 x 8 – Brake disc to wheel hub	2 ea.	

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999.084.655.01	Hexagon nut, M12 x 1.5 – Lower suspension arm to wheel carrie	1 ea. er			
999.084.656.01	Hexagon nut, M10 – Upper suspension arm to wheel carrie – Tie rod to wheel carrier – Connecting link to wheel carrier – Brake caliper to wheel carrier – Spring strut to lower suspension arm	6 ea. er			

or •

Vehicles without Racetrack (Weissach) package:

Part No.	Designation – Use	Qty.
000.043.209.94	\Rightarrow Set of fastening parts – Lower suspension arm for front axle	2 ea.
Contains:		
999.311.502.01	Fit bolt, M12 x 1.5 – Lower suspension arm to auxiliary support	2 ea.
999.311.604.01	Fit bolt, M10 x 1.5 x 81 - Tie rod to wheel carrier	1 ea.
999.311.606.01	Fit bolt, M10 x 1.5 x 72 – Spring strut to lower suspension arm	1 ea.
999.311.602.01	Fit bolt, M10 x 1.5 x 65 – Upper suspension arm to wheel carrier	1 ea.
999.073.572.01	Lens-head screw, M6 x 8 – Brake disc to wheel hub	2 ea.

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	999.084.655.01	Hexagon nut, M12 x 1.5 1 ea. – Lower suspension arm to wheel carrier	
	999.084.656.01	 Hexagon nut, M10 Upper suspension arm to wheel carrier Tie rod to wheel carrier Connecting link to wheel carrier Brake caliper to wheel carrier Spring strut to lower suspension arm 	
Materials:	Part No.	Designation – Use	Qty.
	000.043.302.72	\Rightarrow Protective wax Pfinder AP14/4 – Threaded joint securing suspension arm to wheel carrier	100g tube As much as required
	000.043.300.35	\Rightarrow McLube Sailkote High Performance Dry Lube – Central wheel lock Also commercially available at marine supply stores.	428g spray can As much as required
	000.043.981.00	\Rightarrow Autol Top 2000 grease – Conical area of suspension arm to wheel carrier	25 ml tube As much as required
Tools:	 9004 - Socket wrend Torque wrench, 150 - (111-592 ftlb.) 9768 - (or similar) E VAS 6828 - (PNA 93 		n spoiler adapter

- Steering wheel level, e.g. VAS 6826- Steering wheel alignment gauge or similar
- 9647 Hook wrench
- Suitable engine jack, e.g. VAS 6931 Transmission and engine jack
- 9818 PIWIS Tester II

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Installation

Position:



Overview of lower suspension arms for front axle

1 – Lower suspension arms for front axle

Work See Attachment "A". Procedure:

Claim See Attachment "B". Submission:

Attachment "A": Work Procedure

Preliminary Work



Information

The precision and calibration of the wheel alignment equipment to be used on this campaign must have been verified within the prior 365 days.

Given the narrow tolerances of the wheel alignment values and the variability of wheel alignment systems used at dealerships, the original factory wheel alignment values must be verified and recorded **before carrying out the campaign. A printed copy must be attached to the PQIS Job!**

Due to the large number of threaded joints on the chassis to be loosened as part of this campaign, the wheel alignment values must be verified and recorded again **after replacing** the lower suspension arms for the front axle. **A printed copy must be attached to the POIS Job!**

The **before** and **after** wheel alignment values must then be compared and adjustments made as necessary to restore the original factory values. This ensures optimal adjustment of the wheel alignment positions after replacing the suspension arms. **A printed copy must be attached to the PQIS Job!**

If, however, the individual wheel alignment values are **not within the prescribed adjustment** tolerances \Rightarrow Workshop Manual '4X00IN Adjustment values for suspension alignment' as a result of bumping into curbs, for example, the relevant wheel alignment positions must be set to the **wheel** alignment values specified in the Workshop Manual after **replacing** the suspension.

- Procedure: 1 Move the vehicle onto the wheel alignment platform then measure and record the vehicle heights, camber and alignment values for the front axle per ⇒ Workshop Manual '449503 Suspension alignment, complete'.
 A visual check for damage must also be performed on all relevant chassis components related to this campaign.
 - 2 Raise the vehicle on a lifting platform \Rightarrow Workshop Manual '4X00IN Lifting the vehicle'.
 - 2.1 Position the vehicle between the arms of the lifting platform and push it onto the **9453** (or similar) access ramps.
 - 2.2 Remove underbody covers and fit mounting plates **9002** Lifting platform holders, \Rightarrow *Workshop Manual '518119 Removing and installing jacking points'.*
 - 2.3 Jack and raise the vehicle at the mounting plates.
 - 3 Remove both front wheels \Rightarrow Workshop Manual '440519 Removing and installing wheel'.
 - 4 Remove front wheel housing liner (front part) at the left and right \Rightarrow *Workshop Manual '50561901 Removing and installing front wheel housing liner (front part)'.*
 - 5 Remove front wheel housing liner (rear part) at the left and right \Rightarrow *Workshop Manual '50561905 Removing and installing front wheel housing liner (rear part)'.*
 - 6 Remove cover for center underbody (at the sides) at the left and right \Rightarrow *Workshop Manual* '51931901 Removing and installing cover for centre underbody (at the sides)'.
 - 7 Remove cover for front underbody ⇒ Workshop Manual '519219 Removing and installing cover for front underbody'.
 - 8 Remove cover for center underbody ⇒ Workshop Manual '51931900 Removing and installing cover for centre underbody'.

i Information

- Do not open the brake hydraulic system (brake line remains connected).
- 9 Remove front brake caliper at the left and right ⇒ Workshop Manual '473919 Removing and installing front brake caliper'.
 Suspend the brake caliper on the vehicle using a tie-wrap, for example.
- 10 Remove front PCCB brake disc at the left and right *⇒ Workshop Manual '465119 Removing and installing front PCCB brake disc'*.

Replacing lower suspension arms for front axle

- Procedure:
- 1 Remove lower suspension arm for front axle at the left.
 - 1.1 Loosen and remove nut ⇒ Loosening tie rod
 -2- on the wheel carrier.
 Remove bolt ⇒ Loosening tie rod -3- on the wheel carrier and pull out tie rod ⇒ Loosening front connecting link at the top -1-out of the wheel carrier.

Loosening tie rod

1.2 Loosen and remove nut ⇒ Loosening front connecting link at the top -3- at the connecting link ⇒ Loosening front connecting link at the top -1-. Remove connecting link from the anti-roll bar ⇒ Loosening front connecting link at the top -2- and turn it to the side.



Loosening front connecting link at the top

NOTICE

Damage to the drive shaft

- Bellows can be overstrained or crack
- Damage to the tripod joint

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- \Rightarrow Support loosened wheel carrier using a suitable engine jack.
- \Rightarrow Carefully pull the wheel carrier outwards in order to remove the suspension arms.
- ⇒ Do NOT attempt to remove drive shafts!

NOTICE

Damage to ride height sensors and linkage

- ⇒ Take great care not to damage
- ⇒ Verify correct orientation of linkage
 - 1.3 Loosen and remove nut ⇒ Loosening upper suspension arm -2- on the wheel carrier. Remove bolt ⇒ Loosening upper suspension arm -3- on the wheel carrier ⇒ Loosening upper suspension arm -4- and carefully pull the wheel carrier outwards away from the upper suspension arm ⇒ Loosening spring strut -1-. Move the upper suspension arm upward so that it clears the wheel carrier.
 - 1.4 Support the wheel carrier using a suitable transmission carrier.
 - Loosen and unscrew nut ⇒ Loosening spring strut -3- on the spring strut ⇒ Loosening spring strut -1-.
 Pull out and remove the bolt ⇒ Loosening spring strut -4- on the lower suspension arm ⇒ Loosening spring strut -2-.



Loosening upper suspension arm



Loosening spring strut

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1.6 Loosen and unscrew fastening nut ⇒ Lower suspesion arm on wheel carrier -2-for the ball joint for the lower suspension arm ⇒ Lower suspesion arm on wheel carrier -1- on the wheel carrier.

Press the ball joint out of the wheel carrier. If necessary, loosen the ball joint from the wheel carrier by gently tapping with a plastic hammer.



Lower suspesion arm on wheel carrier

- 1.7 Loosen and unscrew fastening screws ⇒ Lower suspension arm on front-axle carrier
 -1- for the lower suspension arm on the front-axle carrier.
 Pull lower suspension arm out of the front-axle carrier and remove it.
- 2 Install new lower suspension arm for front axle at the left.



Information

Always use new fastening screws and lock nuts from the set of fastening parts.

- 2.1 Push lower suspension arm into the front-axle carrier. Install the bolts ⇒ *Lower suspension arm on front-axle carrier* -1- for the lower suspension arm on the front-axle carrier and tighten using the **three-step tightening procedure**:
 - Step 1 Initial tightening to 80 Nm (59 ft-lb.):
 - Step 2 Loosening 180°
 - Step 3 Finally tightening to 80 Nm (59 ft-lb.):



Lower suspension arm on front-axle carrier

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Lower suspension arm on front-axle carrier

 Apply a thin coat of Autol Top 2000 grease, Part No. 000.043.981.00, to the conical area on the ball joint ⇒ Greasing conical area
 -1- for the lower suspension arm.



Greasing conical area

2.3 Carefully press the ball joint ⇒ Lower suspension arm on wheel carrier -1- for the suspension arm into the tapered bore on the wheel carrier.
 Initaially install the nut ⇒ Lower suspension arm on wheel carrier -2- for ball joint by only a

few turns.



Lower suspension arm on wheel carrier

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2.4 Press lower suspension arm ⇒ Securing spring strut-2- together with the wheel carrier using the transmission and engine jack until the spring strut ⇒ Securing spring strut-1- is at the correct installation position on the suspension arm. Install bolt⇒ Securing spring strut-4- through the wheel carrier and spring strut and secure with the nut ⇒ Securing spring strut -3-.

Tightening torque 55 Nm (41 ftlb.)

2.5 Remove transmission and engine jack.



Securing spring strut

NOTICE

Incorrect positioning of the horizontal banner arm (lever arm) for level sensor

- Damage to the level sensor
- Damage to the connecting link for the level sensor
- \Rightarrow Make sure that the ride height sensors and linkage is pointing outwards towards the wheel.
- \Rightarrow Do not bend the horizontal banner arm (lever arm) and connecting link or press them aside.

2.6 Verify the ride height sensor and ⇒ *Installation position of level sensor* -1- is oriented correctly (Top illustration).



Installation position of level sensor

- 2.7 Install the bolt ⇒ Securing upper suspension arm -3- on the wheel carrier ⇒ Securing upper suspension arm -4- and upper suspension arm ⇒ Securing upper suspension arm -1- and secure with the nut ⇒ Securing upper suspension arm -2-. Tighten to 42 Nm (31 ft.-lb.)
- 2.8 Position connecting link ⇒ Securing front connecting link -1- on the anti-roll bar ⇒ Securing front connecting link -2- and secure with the fastening nut ⇒ Securing front connecting link -3- using the two-step tightening procedure:



Securing upper suspension arm

- Step 1 Initial tightening: Tightening torque 40 Nm (30 ftlb.)
- Step 2 Final tightening: Torque angle 30°

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Securing front connecting link

2.9 Position tie rod \Rightarrow Securing tie rod -1 - on the wheel carrier. Install bolt \Rightarrow Securing tie rod -3 - and secure with nut \Rightarrow Securing tie rod -2 -.

Tightening torque 42 Nm (31 ftlb.)

- 2.10 Tighten nut \Rightarrow Lower trailing arm on wheel carrier-2- for lower suspension arm using the **three-step tightening procedure**:
 - Step 1 Initial tightening: Tightening torque 75 Nm (56 ftlb.) +/-2.5 Nm (+/-2 ftlb.)
 - Step 2 Loosening process: Torque angle 180°



Securing tie rod

Step 3 – Final tightening: Tightening torque 75 Nm (56 ftlb.) +/-2.5 Nm (+/-2 ftlb.)



Lower trailing arm on wheel carrier



Replace lower suspension arm for front axle at the right.
 To do this, carry out Step 1.1 to 2.10 on the right-hand side of the vehicle.



Applying wax on the suspension are threaded joint

Subsequent work

Procedure:

1 Install front PCCB brake disc at the left and right \Rightarrow Workshop Manual '465119 Removing and installing front PCCB brake disc'.

- 2 Install front brake caliper at the left and right \Rightarrow *Workshop Manual '473919 Removing and installing front brake calliper'.*
- 3 Install cover for center underbody ⇒ Workshop Manual '51931900 Removing and installing cover for centre underbody'.
- 4 Install cover for front underbody \Rightarrow Workshop Manual '519219 Removing and installing cover for front underbody'.
- 5 Install cover for center underbody (at the sides) at the left and right \Rightarrow Workshop Manual '51931901 Removing and installing cover for centre underbody (at the sides)'.
- 6 Install front wheel housing liner (rear part) at the left and right \Rightarrow Workshop Manual '50561905 Removing and installing front wheel housing liner (rear part)'.
- 7 Install front wheel housing liner (front part) at the left and right \Rightarrow *Workshop Manual '50561901 Removing and installing front wheel housing liner (front part)'.*
- 8 Fit both front wheels \Rightarrow Workshop Manual '440519 Removing and installing wheel'.
- 9 Lower the vehicle and remove it from the lifting platform \Rightarrow *Workshop Manual '4X00IN Lifting the vehicle'*.
 - 9.1 Lower the vehicle onto the **9453 access ramps** with the lifting platform.

9.2 Remove mounting plates **9002** - Lifting platform holders and install the covers on the underbody \Rightarrow *Workshop Manual '518119 Removing and installing jacking points'*.

i Information

Due to the large number of threaded joints on the chassis to be loosened as part of this campaign, the **wheel alignment** on the front axle must be checked **after replacing the suspension arms**. Given the low set point value tolerances of the wheel alignment values and the different wheel alignment systems used in the dealer organization, the wheel alignment positions must therefore be compared with the **wheel alignment values determined beforehand during the initial measurement** and may have to be reset to these values after carrying out the campaign. This ensures optimal adjustment of the wheel alignment positions after replacing the suspension arms.

If individual wheel alignment values are **not within the prescribed adjustment tolerance** during the **initial measurement** as a result of bumping into curbs, for example, the relevant wheel alignment positions must be set to the **wheel alignment values specified in the Workshop Manual**, ⇒ Workshop Manual '4X00IN Adjustment values for suspension alignment'. A visual check for damage must also be performed on all relevant chassis components in this case.

- 10 Measure the vehicle height as well as the camber and toe adjustment values on the front axle and adjust them to the values determined beforehand if necessary ⇒ Workshop Manual '449503 Suspension alignment, complete'. To do this, raise the vehicle on a wheel alignment platform.
- 11 Enter the recall campaign in the Warranty and Maintenance booklet.

Attachment "B": Claim Submission - Recall Campaign AF01

Warranty claims should be submitted via WWS/PQIS.

Open campaigns may be checked by using either the PIWIS Vehicle Information system or through PQIS Job Creation.

Labor, parts, and sublet will be automatically inserted when Technician is selected in WWS/PQIS. If necessary, the required part numbers will need to be manually entered into warranty system by the dealer administrator.

Information: This campaign must be carried out by a Service Level 2 Porsche Dealer.

Service Level 0 or 1 Dealers are NOT authorized to carry out this campaign. In accordance with the service concept for the 918 Spyder, the vehicle must be transferred to a Service Level 2 Dealer in order to carry out this recall. If the vehicle should require transport from your dealership to a Level 2 Dealer and transportation has not previously been arranged by the 918 Client Relationship Team, you should contact Roadside Assistance at 1-844-918-SPYD (7793) to facilitate the transfer.

In this case, Service Level O or 1 Porsche Dealers can invoice the cost items listed below for vehicle acceptance, transporting the vehicle and accepting the vehicle following return transport using the **new**

vehicle warranty for the vehicle in accordance with the specifications in the 918 Spyder AfterSales Fact Book 2014:

TU
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unt as per invoice *

* Please document copy of invoice in PQIS.

Please code a separate PQIS job line to **C902 9735** and submit to WWS using warranty code 2. Once transmitted to WWS, claim the sublet using Miscellaneous Sublet Code "OTH". The damage code in WWS should be displayed as **C902 035 000 1**

Quality lines				Repair	~
1 🖌 CS Customer	statement	Technical evaluation [PIRS]	Cause	Correction	
Location C9020 To	wing	C9020 Towing	C9020 Towing		
Symptom 9731 Othe	er	9731 Other	9735 Repairs in ac		
please se	lect 🗸	please select 🗸	please select 🗸	please select 🗸	



Service Level 2 Porsche Dealers must always submit an invoice for the relevant campaign scope.

i Info

Information

The working times specified below were determined specifically for carrying out this campaign and may differ from the working times published in the Labor Operation List in PIWIS.

The time required for **measuring the vehicle height as well as the camber and toe adjustment values** on the front axle **before and after carrying out the campaign** is **included** in the working times.

All work that must be carried out in order to **adjust the wheel alignment positions** and parts required during the adjustment process are **not** included in the **scope of this campaign** and must be invoiced using a separate warranty claim.

- Scope 1: Replacing lower suspension arms for front axle.
 - Vehicles with Racetrack (Weissach) package (I-no. 808).

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		ension arm for front axle at the left and right	Labor time: 636 TU					
		and lowering the vehicle						
	Removing and installing front wheel at the left and right							
	Removing and installing front wheel housing liner (front part)							
		ft and right						
	Removir	ng and installing front wheel housing liner (rear part)						
		ft and right						
	sides)	ng and installing cover for center underbody (at the						
		ng and installing cover for front underbody						
		ng and installing cover for center underbody						
		Loosening and securing front brake caliper at the left and						
	-	right						
	Removing and installing front PCCB brake disc at the left and right							
	Measuring vehicle height as well as camber and toe							
		ent values on the front axle (2x)						
Parts requi	ired:							
918.341.05	53.01	Lower suspesnsion arm for front axle, left/right	2 ea.					
000.043.20)9.95	Set of fastening parts for Racetrack (Weissach) package, left/right	2 ea.					
Additional	materials	s required:						
000.043.30	02.72	Protective wax Pfinder AP14/4, 100g tube	0.1 ea.					
000.043.30	00.35	McLube Sailkote High Performance Dry Lube, 428g spray can	0.05 ea.					
		Also commercially available at marine supply stores.						

Scope 2: Replacing lower suspension arms for front axle.

• Vehicles without Racetrack (Weissach) package.

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Working time:								
Replacing lower	Labor time: 636 TL							
	Raising and lowering the vehicle							
	Removing and installing front wheel at the left and right							
	Removing and installing front wheel housing liner (front part) at the left and right							
	Removing and installing front wheel housing liner (rear part)							
	at the left and right							
	emoving and installing cover for center underbody (at the							
si	des)							
	emoving and installing cover for front underbody							
	emoving and installing cover for center underbody							
	Loosening and securing front brake caliper at the left and right							
	right Removing and installing front PCCB brake disc at the left and							
	right							
	Measuring vehicle height as well as camber and toe							
ас	ljustment values on the front axle (2x)							
Parts required	:							
918.341.053.0	1 Lower suspension arm for front axle, left/right	2 ea.						
000.043.209.9	4 Set of fastening parts, left/right	2 ea.						
Additional mat	erials required:							
000.043.302.7	2 Protective wax Pfinder AP14/4, 100g tube	0.1 ea.						
000.043.300.3	5 McLube Sailkote High Performance Dry Lube, 428g	0.05 ea.						
	spray can							
	Also commercially available at marine supply stores.							
000.043.981.0	0 Autol Top 2000 grease, 25 ml tube	0.1 ea.						
\Rightarrow Damage co	de AF01 099 000 2							

References:

 \Rightarrow Workshop Manual '4X00IN Lifting the vehicle'

 \Rightarrow Workshop Manual '4X00IN Tightening torques for front axle'

- \Rightarrow Workshop Manual '4X00IN Adjustment values for suspension alignment'
- \Rightarrow Workshop Manual '440519 Removing and installing wheel'
- \Rightarrow Workshop Manual '449503 Suspension alignment, complete'

 \Rightarrow Workshop Manual '465119 Removing and installing front PCCB brake disc'

 \Rightarrow Workshop Manual '473919 Removing and installing front brake calliper'

 \Rightarrow Workshop Manual '50561901 Removing and installing front wheel housing liner (front part)'

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⇒ Workshop Manual '50561905 Removing and installing front wheel housing liner (rear part)'

 \Rightarrow Workshop Manual '518119 Removing and installing jacking points'

 \Rightarrow Workshop Manual '519219 Removing and installing cover for front underbody'

 \Rightarrow Workshop Manual '51931900 Removing and installing cover for centre underbody'

 \Rightarrow Workshop Manual '51931901 Removing and installing cover for centre underbody (at the sides)'

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Dealership	Service Manager	 Shop Foreman	 Service Technician	 	
Distribution Routing	Asst. Manager	 Warranty Admin.	 Service Technician	 	

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