### PORSCHE'

## **Technical Information**

155/23 ENU WPN5

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#### WPN5 - Replacing Air-Spring Strut on the Front Axle (Workshop Campaign)

Model Line:	Taycan (Y1A / Y1B / Y1C)
Model Year:	2023
Equipment:	Adaptive air suspension with Porsche Active Suspension Management (PASM) (M-No.: 1BK)
Concerns:	Air-spring strut, front axle
Cause:	There is a possibility that the screw connection of the support mount housing on the air suspension strut on the affected vehicles was not carried out according to specifications. If this is the case, it cannot be ruled out that a stud of the support mount housing could loosen over the vehicle's service life and in a sporty-dynamic driving style. The customer can notice this through a rattling noise on the front axle.
Action:	Replace air-spring strut on the front axle.
Affected Vehicles:	Only vehicles assigned to the campaign (see also PCSS Vehicle Information).
	<b>i</b> Information

Every vehicle is assigned exactly to one campaign scope. To find out which scope is assigned to the relevant vehicle, see PCSS Vehicle Information.

#### **Required parts**

The **part numbers** of the **required parts** for the respective vehicle can be seen in the **assigned scope**. For an overview of the campaign scopes, see:  $\Rightarrow$  *Technical Information 'Warranty processing'* 

#### **Required tools**

#### Tools:

- T40262 Locking cap
  - VAS 6410 Contact surface cleaning set
  - VAS 6558/9-6A High-voltage test adapter
- VAS 6558A High-voltage testing module
- VAS 6883A Insulated tool set
- VAS 6959 Torx screwdriver insert T30
- 3093 Hose clamp
- VAS 531 011 Cooling system service equipment
- VAS 6675A Funnel
- VAS 6935 Pole terminal puller

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- T10187 Press-out tool
- T40010A Ball-joint extractor
- VAS 6926 Puller set
- VAS 6931 Transmission and gearbox jack
- VAS 5908 Battery charger, 90A
- VAS 6918 Quick-clamping unit
- T90009 Insert tool
- VAS 261 019 Ratchet ring wrench socket, a/f 19
- VAS 6826 Steering wheel balance
- P90009 Puller
- VAS 621 001 Headlight adjusting unit
- VAS 721 001 Calibration System
- VAS 6430/6 Night View Assist calibration unit
- VAS 6430/1A Adjustment device with reflector
- VAS 6350A Calibration unit
- VAS 6350/2A Spacing laser
- VAS 6350/4 Calibration unit for Lane Change Assist
- VAS 6430/1A Adjustment device with reflector
- VAS 6430/3 Mirror for adjustment device
- VAS 6430/4 Lane Keep Assist calibration board

#### Replacing air-spring strut on the front axle

Work Procedure:

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Depending on the campaign scope, the air suspension strut on the front axle of the affected vehicles must be replaced either on one side or on both sides. See the campaign scope assigned to the respective vehicle.

On vehicles for which only the replacement of an air suspension strut is provided, both air-spring struts must also be **replaced at a mileage/km of > 30,000 km or at a vehicle age of more than 3 years**.

For this purpose, the VIN and mileage/km must be documented with a photo and the photo documentation attached to the job. In this case, a PRMS ticket must be created for the change in scope.

1 Replace air-spring strut on the front axle on one or both sides depending on the assigned campaign scope.

For instructions, see: ⇒ Workshop Manual '433019 Removing and installing front air-spring strut'

2 Enter the campaign in the Warranty and Maintenance logbook.

#### Warranty processing



#### Information

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

#### Scope 1: Replacing air suspension strut on left front axle

• Valid for vehicles with **rear-wheel drive** and the following equipment: Sports saloon (M-No. K8S) or Sport Turismo (M-No. K8D)

Labor time:				
Includes: I	suspension strut on left front axle solating high-voltage system from power supply/Starting high-voltage system Bleed and fill level control Measuring front and rear vehicle Adjusting vehicle at front and rear Calibrating camera for night vision system Calibrating front camera Adjusting distance measuring sensor control unit	Labor time: <b>851 TU</b>		
Required par	ts:			
V04015001A	J Air spring damper (left)	1 piece		
N 10261311	M10 hexagon nut	3 pieces		
PAF909664	Hexagon collar nut, self-locking M12 x 1.5	1 piece		
PAF108544	Oval head bolt with inner multiple-tooth head M12 x 1.5 x 90	1 piece		
N 10272302	Hexagon collar nut, self-locking M10	1 piece		
N 0150818	Hexagon collar nut, M12 x 1.5	1 piece		
N 10793603	Hexagon-head bolt, M12 x 60	1 piece		
PAF102861	Hexagon collar nut, self-locking M10	1 piece		
PAF911085	Collared cheese head bolt with multiple-tooth head, M10 x 60	1 piece		
N 91244301	Hexagon-head bolt with hexagon socket head (Duo) M12 x 1.5 x 90	6 pieces		
WHT001938	Hexagon nut, self-locking, M14 x 1.5	2 pieces		
WHT007646	Eccentric screw, M14 x 1.5 x 105	2 pieces		

1		
PAF009123	Eccentric screw, M12 x 1.5	2 pieces
PAF909664	Hexagon collar nut, self-locking, M12 x 1.5	2 pieces
N 10456004	Allen socket countersunk screw, self-locking M6 x 12	1 piece
N 10261307	M10 hexagon nut	2 pieces
For vehicles with the foll (M-No. A8F)	owing equipment: Equipment "Basic" (M-No. A8D)	or equipment "S"
PAF004571	Collared cheese head bolt with multiple-tooth head, M14 x $1.5 x 115$	2 pieces
or		
	owing equipment: Porsche Ceramic Composite Br ( / M-No. 1ZL / M-No. 1ZP)	ake (PCCB)
PAF004572	Collared cheese head bolt with multiple-tooth head, M14 x 1.5 x 135	2 pieces
Required materials:		
00004330508	Optimoly TA (aluminium paste)	0.04 piece
$\Rightarrow$ Damage number WPI	N5 066 000 2	

#### Scope 2: Replacing air-spring strut on right front axle

• Valid for vehicles with **rear-wheel drive** and the following equipment: Sports saloon (M-No. K8S) or Sport Turismo (M-No. K8D)

Labor time:				
Replacing a Includes:	Isolating h high-voltag Bleed and Measuring Adjusting Calibrating Calibrating	t on right front axle igh-voltage system from power supply/Starting ge system fill level control front and rear vehicle vehicle at front and rear g camera for night vision system g front camera distance measuring sensor control unit	Labor time: <b>851 TU</b>	
Required parts:				
V0401500	1AM	Air spring damper (right)	1 piece	

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N 10261307	M10 hexagon nut	2 pieces
N 10261307		2 pieces
N 10456004	Allen socket countersunk screw, self-locking M6 x 12	1 piece
		·
PAF909664	Hexagon collar nut, self-locking, M12 x 1.5	2 pieces
PAF009123	Eccentric screw, M12 x 1.5	2 pieces
WHT007646	Eccentric screw, M14 x 1.5 x 105	2 pieces
WHT007646	с с	
	с с	
WHT001938	Hexagon nut, self-locking, M14 x 1.5	2 pieces
		2 piacos
	M12 x 1.5 x 90	·
N 91244301	Hexagon-head bolt with hexagon socket head (Duo)	6 pieces
N 91244301	Hexagon-head bolt with hexagon socket head (Duo)	6 pieces
N 91244301		6 pieces
	M10 x 60	·
PAF911085	Collared cheese head bolt with multiple-tooth head,	1 piece
PAF102861	Hexagon collar nut, self-locking M10	1 piece
	Hexagon-head bolt, M12 x 60	1 piece
N 10793603	0	·
N 0150818	Hexagon collar nut, M12 x 1.5	1 piece
N 10272302	Hexagon collar nut, self-locking M10	1 piece
1 AI 100344	1.5 x 90	i piece
PAF108544	Oval head bolt with inner multiple-tooth head M12 x	1 piece
PAF909004	Hexagon collar nut, self-locking, M12 x 1.5	1 piece
PAF909664	M10 hexagon nut	3 pieces

#### Scope 3: Replacing air-spring struts on right and left front axle

• Valid for vehicles with **rear-wheel drive** and the following equipment: Sports saloon (M-No. K8S) or Sport Turismo (M-No. K8D)

Labor time:				
Includes: Isola high Blee Mea Adju Calik Calik	g struts on right and left front axle ting high-voltage system from power supply/Starting voltage system d and fill level control suring front and rear vehicle sting vehicle at front and rear prating camera for night vision system orating front camera sting distance measuring sensor control unit	Labor time: <b>1006 TU</b>		
Required parts:				
V04015001AJ	Air spring damper (left)	1 piece		
V04015001AM	Air spring damper (right)	1 piece		
N 10261311	M10 hexagon nut	6 pieces		
PAF909664	Hexagon collar nut, self-locking, M12 x 1.5	2 pieces		
PAF108544	Oval head bolt with inner multiple-tooth head M12 1.5 x 90	x 2 pieces		
N 10272302	Hexagon collar nut, self-locking M10	2 pieces		
N 0150818	Hexagon collar nut, M12 x 1.5	2 pieces		
N 10793603	Hexagon-head bolt, M12 x 60	2 pieces		
PAF102861	Hexagon collar nut, self-locking M10	2 pieces		
PAF911085	Collared cheese head bolt with multiple-tooth head M10 x 60	d, 2 pieces		
N 91244301	Hexagon-head bolt with hexagon socket head (Duo M12 x 1.5 x 90	o) 6 pieces		
WHT001938	Hexagon nut, self-locking, M14 x 1.5	2 pieces		
WHT007646	Eccentric screw, M14 x 1.5 x 105	2 pieces		
PAF009123	Eccentric screw, M12 x 1.5	2 pieces		
PAF909664	Hexagon collar nut, self-locking, M12 x 1.5	2 pieces		
N 10456004	Allen socket countersunk screw, self-locking M6 x 12	2 pieces		
N 10261307	M10 hexagon nut	2 pieces		

For vehicles with the (M-No. A8F)	following equipment: Equipment "Basic" (M-No. A8D)	or equipment "S"	
PAF004571	Collared cheese head bolt with multiple-tooth head, $M14 \times 1.5 \times 115$	4 pieces	
or			
For vehicles with the (M-No. A8F)	following equipment: Equipment "Basic" (M-No. A8D)	or equipment "S"	
PAF004572	Collared cheese head bolt with multiple-tooth head, M14 x $1.5$ x $135$	4 pieces	
Required materials:			
00004330508	Optimoly TA (aluminium paste)	0.04 piece	
⇒ Damage number WPN5 066 000 2			

#### Scope 4: Replacing air-spring struts on right and left front axle

- Valid for vehicles with **rear-wheel drive** and the following equipment: Sports saloon (M-No. K8S) or Sport Turismo (M-No. K8D)
- Only for vehicles for which only the **replacement of an air-spring strut is planned**, but **both air-spring struts** have been replaced depending on mileage

Labor time:				
Includes: Isolat high-v Bleec Meas Adjus Calibi Calibi	g struts on right and left front axle ing high-voltage system from power supply/Starting voltage system I and fill level control uring front and rear vehicle ting vehicle at front and rear rating camera for night vision system rating front camera ting distance measuring sensor control unit	Labor time: <b>1006 TU</b>		
Required parts:				
V04015001AJ	Air spring damper (left)	1 piece		
V04015001AM	Air spring damper (right)	1 piece		
N 10261311	M10 hexagon nut	6 pieces		
PAF909664 Hexagon collar nut, self-locking, M12 x 1.5 2 pieces				

PAF108544	Oval head bolt with inner multiple-tooth head M12 x 1.5 x 90	2 pieces
N 10272302	Hexagon collar nut, self-locking M10	2 pieces
N 0150818	Hexagon collar nut, M12 x 1.5	2 pieces
N 10793603	Hexagon-head bolt, M12 x 60	2 pieces
PAF102861	Hexagon collar nut, self-locking M10	2 pieces
PAF911085	Collared cheese head bolt with multiple-tooth head, M10 x 60	2 pieces
N 91244301	Hexagon-head bolt with hexagon socket head (Duo) M12 x 1.5 x 90	6 pieces
WHT001938	Hexagon nut, self-locking, M14 x 1.5	2 pieces
WHT007646	Eccentric screw, M14 x 1.5 x 105	2 pieces
PAF009123	Eccentric screw, M12 x 1.5	2 pieces
PAF909664	Hexagon collar nut, self-locking, M12 x 1.5	2 pieces
N 10456004	Allen socket countersunk screw, self-locking M6 x 12	2 pieces
N 10261307	M10 hexagon nut	2 pieces
For vehicles with the follo (M-No. A8F)	wing equipment: Equipment "Basic" (M-No. A8D)	or equipment "S"
PAF004571	Collared cheese head bolt with multiple-tooth head, $M14 \times 1.5 \times 115$	4 pieces
or		
For vehicles with the follo (M-No. A8F)	wing equipment: Equipment "Basic" (M-No. A8D)	or equipment "S"
PAF004572	Collared cheese head bolt with multiple-tooth head, M14 x $1.5 x 135$	4 pieces
Required materials:		
00004330508	Optimoly TA (aluminium paste)	0.04 piece
$\Rightarrow$ Damage number WPN	5 066 000 2	

#### Scope 5: Replacing air suspension strut on left front axle

• Valid for vehicles with all-wheel drive and the following equipment: Sports saloon (M-No. K8S)

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Replacing ai	r suspension s	trut on left front axle	Labor time: 868 TL
Includes:	Isolating high high-voltage Bleed and fill Measuring fr	n-voltage system from power supply/Starting system level control ont and rear vehicle	
		nicle at front and rear amera for night vision system	
	Calibrating fr	ront camera	
	Adjusting dis	tance measuring sensor control unit	
Required p	arts:		
V04015001	AJ	Air spring damper (left)	1 piece
N 1026131	1	M10 hexagon nut	3 pieces
PAF909664		Hexagon collar nut, self-locking, M12 x 1.5	1 piece
PAF108544		Oval head bolt with inner multiple-tooth head M12 x 1.5 x 90	1 piece
9J1407623		Spin washer	1 piece
N 1027230	2	Hexagon collar nut, self-locking M10	1 piece
N 0150818		Hexagon collar nut, M12 x 1.5	1 piece
N 1079360	3	Hexagon-head bolt, M12 x 60	1 piece
WHT00702	1	Hexagon nut, self-locking with washer, M22 x 1.5	1 piece
PAF102861		Hexagon collar nut, self-locking M10	1 piece
PAF911085		Collared cheese head bolt with multiple-tooth head, M10 x 60	1 piece
N 9124430	1	Hexagon-head bolt with hexagon socket head (Duo) M12 x 1.5 x 90	6 pieces
WHT001938	3	Hexagon nut, self-locking, M14 x 1.5	2 pieces
WHT007646	5	Eccentric screw, M14 x 1.5 x 105	2 pieces
PAF009123		Eccentric screw, M12 x 1.5	2 pieces
PAF909664		Hexagon collar nut, self-locking, M12 x 1.5	2 pieces
N 1045600	4	Allen socket countersunk screw, self-locking M6 x 12	1 piece
N 1026130	7	M10 hexagon nut	2 pieces

PAF004571	Collared cheese head bolt with multiple-tooth head, M14 x $1.5$ x $115$	2 pieces
or		
For vehicles with the follo (M-No. A8F)	wing equipment: Equipment "Basic" (M-No. A8D)	or equipment "S"
PAF004572	Collared cheese head bolt with multiple-tooth head, $M14 \times 1.5 \times 135$	2 pieces
Required materials:		
00004330508	Optimoly TA (aluminium paste)	0.04 piece
$\Rightarrow$ Damage number WPN	5 066 000 2	

#### Scope 6: Replacing air-spring strut on right front axle

• Valid for vehicles with all-wheel drive and the following equipment: Sports saloon (M-No. K8S)

1					
Labor time:					
Replacing air-spring strut on right front axleIncludes:Isolating high-voltage system from power supply/Starting high-voltage systemBleed and fill level controlMeasuring front and rear vehicle Adjusting vehicle at front and rear Calibrating camera for night vision system Calibrating front camera Adjusting distance measuring sensor control unit		Labor time: 868 TU			
Required p	oarts:				
V04015001	1AM	Air spring damper (right)	1 piece		
N 1026131	1	M10 hexagon nut	3 pieces		
PAF909664	ļ	Hexagon collar nut, self-locking, M12 x 1.5	1 piece		
PAF108544	ļ	Oval head bolt with inner multiple-tooth head M12 x $1.5 \times 90$	1 piece		
971407624	4	Spin washer	1 piece		
N 1027230	2	Hexagon collar nut, self-locking M10	1 piece		
N 0150818		Hexagon collar nut, M12 x 1.5	1 piece		
N 1079360	3	Hexagon-head bolt, M12 x 60	1 piece		

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	WHT007021	Hexagon nut, self-locking with washer, M22 x 1.5	1 piece
	PAF102861	Hexagon collar nut, self-locking M10	1 piece
	PAF911085	Collared cheese head bolt with multiple-tooth hea M10 x 60	ld, 1 piece
	N 91244301	Hexagon-head bolt with hexagon socket head (Du M12 x 1.5 x 90	ıo) 6 pieces
	WHT001938	Hexagon nut, self-locking, M14 x 1.5	2 pieces
	WHT007646	Eccentric screw, M14 x 1.5 x 105	2 pieces
	PAF009123	Eccentric screw, M12 x 1.5	2 pieces
	PAF909664	Hexagon collar nut, self-locking, M12 x 1.5	2 pieces
	N 10456004	Allen socket countersunk screw, self-locking M6 x 12	1 piece
	N 10261307	M10 hexagon nut	2 pieces
	For vehicles with the (M-No. A8F)	following equipment: Equipment "Basic" (M-No. A	8D) or equipment "S"
	PAF004571	Collared cheese head bolt with multiple-tooth hea M14 x 1.5 x 115	id, 2 pieces
	or		
	For vehicles with the (M-No. A8F)	following equipment: Equipment "Basic" (M-No. A	8D) or equipment "S"
	PAF004572	Collared cheese head bolt with multiple-tooth hea M14 x 1.5 x 135	id, 2 pieces
	Required materials:		
	00004330508	Optimoly TA (aluminium paste)	0.04 piece
	$\Rightarrow$ Damage number	WPN5 066 000 2	

#### Scope 7: Replacing air-spring struts on right and left front axle

• Valid for vehicles with all-wheel drive and the following equipment: Sports saloon (M-No. K8S)

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Labor time	:		
Replacing ai Includes:	Isolating high- high-voltage s Bleed and fill I Measuring fro Adjusting vehi Calibrating ca Calibrating fro	evel control nt and rear vehicle cle at front and rear mera for night vision system	Labor time: <b>1041 TU</b>
Dominodo			
<b>Required p</b> V04015001		Air spring damper (left)	1 piece
V04015001		Air spring damper (right)	1 piece
N 1026131		M10 hexagon nut	6 pieces
PAF909664	I	Hexagon collar nut, self-locking, M12 x 1.5	2 pieces
PAF108544		Oval head bolt with inner multiple-tooth head M12 x 1.5 x 90	·
9J1407623		Spin washer	1 piece
971407624		Spin washer	1 piece
N 1027230	2	Hexagon collar nut, self-locking M10	2 pieces
N 0150818		Hexagon collar nut, M12 x 1.5	2 pieces
N 1079360	3	Hexagon-head bolt, M12 x 60	2 pieces
WHT00702	1	Hexagon nut, self-locking with washer, M22 x 1.5	2 pieces
PAF102861		Hexagon collar nut, self-locking M10	2 pieces
PAF911085		Collared cheese head bolt with multiple-tooth head, M10 x 60	2 pieces
N 9124430	1	Hexagon-head bolt with hexagon socket head (Duo) M12 x 1.5 x 90	6 pieces
WHT001938	3	Hexagon nut, self-locking, M14 x 1.5	2 pieces
WHT007646	6	Eccentric screw, M14 x 1.5 x 105	2 pieces
PAF009123		Eccentric screw, M12 x 1.5	2 pieces
PAF909664		Hexagon collar nut, self-locking, M12 x 1.5	2 pieces
N 1045600	4	Allen socket countersunk screw, self-locking M6 x 12	2 pieces

For vehicles with the f (M-No. A8F)	ollowing equipment: Equipment "Basic" (M-No. A8D)	or equipment "S"
PAF004571	Collared cheese head bolt with multiple-tooth head, M14 x 1.5 x 115 $$	4 pieces
or		
For vehicles with the f (M-No. A8F)	ollowing equipment: Equipment "Basic" (M-No. A8D)	or equipment "S"
PAF004572	Collared cheese head bolt with multiple-tooth head, M14 x 1.5 x 135	4 pieces
Required materials:		
00004330508	Optimoly TA (aluminium paste)	0.04 piece
$\Rightarrow$ Damage number W	/PN5 066 000 2	

#### Scope 8: Replacing air-spring struts on right and left front axle

- Valid for vehicles with all-wheel drive and the following equipment: Sports saloon (M-No. K8S)
- Only for vehicles for which only the **replacement of an air-spring strut is planned**, but **both air-spring struts** have been replaced depending on mileage

Labor time:					
Replacing air-spring struts on right and left front axle Labor time: 104   Includes: Isolating high-voltage system from power supply/Starting   high-voltage system Bleed and fill level control			Labor time: <b>1041 TU</b>		
	Measuring front and rear vehicle Adjusting vehicle at front and rear Calibrating camera for night vision system				
Calibrating front camera Adjusting distance measuring sensor control unit					
Required p	Required parts:				
V0401500 <sup>-</sup>	1AJ	Air spring damper (left)	1 piece		
V0401500 <sup>2</sup>	1AM	Air spring damper (right)	1 piece		
N 1026131	1	M10 hexagon nut	6 pieces		
PAF909664		Hexagon collar nut, self-locking, M12 x 1.5	2 pieces		

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PAF108544	Oval head bolt with inner multiple-tooth head M12 x 1.5 x 90	2 pieces
9J1407623	Spin washer	1 piece
971407624	Spin washer	1 piece
N 10272302	Hexagon collar nut, self-locking M10	2 pieces
N 0150818	Hexagon collar nut, M12 x 1.5	2 pieces
N 10793603	Hexagon-head bolt, M12 x 60	2 pieces
WHT007021	Hexagon nut, self-locking with washer, M22 x 1.5	2 pieces
PAF102861	Hexagon collar nut, self-locking M10	2 pieces
PAF911085	Collared cheese head bolt with multiple-tooth head, M10 x 60	2 pieces
N 91244301	Hexagon-head bolt with hexagon socket head (Duo) M12 x 1.5 x 90	6 pieces
WHT001938	Hexagon nut, self-locking, M14 x 1.5	2 pieces
WHT007646	Eccentric screw, M14 x 1.5 x 105	2 pieces
PAF009123	Eccentric screw, M12 x 1.5	2 pieces
PAF909664	Hexagon collar nut, self-locking, M12 x 1.5	2 pieces
N 10456004	Allen socket countersunk screw, self-locking M6 x 12	2 pieces
N 10261307	M10 hexagon nut	2 pieces
For vehicles with the follo (M-No. A8F)	wing equipment: Equipment "Basic" (M-No. A8D)	or equipment "S"
PAF004571	Collared cheese head bolt with multiple-tooth head, $M14 \times 1.5 \times 115$	4 pieces
or		
For vehicles with the follo (M-No. A8F)	wing equipment: Equipment "Basic" (M-No. A8D)	or equipment "S"
PAF004572	Collared cheese head bolt with multiple-tooth head, M14 x 1.5 x 135	4 pieces
Required materials:		
00004330508	Optimoly TA (aluminium paste)	0.04 piece
$\Rightarrow$ Damage number WPN	5 066 000 2	

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#### Scope 9: Replacing air suspension strut on left front axle

• Valid for vehicles with the following equipment: Cross Turismo (M-No. K8X)

Labor time:	Labor time:				
Replacing air Includes:	air suspension strut on left front axle Isolating high-voltage system from power supply/Starting high-voltage system Bleed and fill level control Measuring front and rear vehicle Adjusting vehicle at front and rear Calibrating camera for night vision system Calibrating front camera Adjusting distance measuring sensor control unit		Labor time: 868 TU		
Required pa	arts:				
V04015001	AN	Air spring damper (left)	1 piece		
N 10261317	1	M10 hexagon nut	3 pieces		
PAF909664		Hexagon collar nut, self-locking, M12 x 1.5	3 pieces		
PAF108544		Oval head bolt with inner multiple-tooth head M12 x $1.5 \times 90$	1 piece		
9J1407623		Spin washer	1 piece		
N 10272302	2	Hexagon collar nut, self-locking M10	1 piece		
N 0150818		Hexagon collar nut, M12 x 1.5	1 piece		
N 10793603	3	Hexagon-head bolt, M12 x 60	1 piece		
WHT007021	I	Hexagon nut, self-locking with washer, M22 x 1.5	1 piece		
PAF102861		Hexagon collar nut, self-locking M10	1 piece		
PAF911085		Collared cheese head bolt with multiple-tooth head, $M10x60$	1 piece		
N 9124430	1	Hexagon-head bolt with hexagon socket head (Duo) M12 x 1.5 x 90 $$	6 pieces		
WHT001938	3	Hexagon nut, self-locking, M14 x 1.5	2 pieces		
WHT007646	ò	Eccentric screw, M14 x 1.5 x 105	2 pieces		
PAF009123		Eccentric screw, M12 x 1.5	2 pieces		
N 10456004	4	Allen socket countersunk screw, self-locking M6 x 12	1 piece		
N 10261307	7	M10 hexagon nut	2 pieces		
For vehicles (M-No. A8F		wing equipment: Equipment "Basic" (M-No. A8D	) or equipment "S"		

PAF004571	Collared cheese head bolt with multiple-tooth head, M14 x $1.5$ x $115$	2 pieces
or		
For vehicles with the follo (M-No. A8F)	wing equipment: Equipment "Basic" (M-No. A8D)	or equipment "S"
PAF004572	Collared cheese head bolt with multiple-tooth head, M14 x 1.5 x 135	2 pieces
Required materials:		
00004330508	Optimoly TA (aluminium paste)	0.04 piece
$\Rightarrow$ Damage number WPN	5 066 000 2	

#### Scope 10: Replacing air-spring strut on right front axle

• Valid for vehicles with the following equipment: Cross Turismo (M-No. K8X)

Labor time	:		
Replacing ai Includes:	high-voltage s Bleed and fill le Measuring from Adjusting vehic Calibrating can Calibrating from	voltage system from power supply/Starting ystem evel control ht and rear vehicle cle at front and rear mera for night vision system	Labor time: 868 TU
Required p	arts:		
V04015001	IAP	Air spring damper (right)	1 piece
N 1026131	1	M10 hexagon nut	3 pieces
PAF909664	ļ	Hexagon collar nut, self-locking, M12 x 1.5	3 pieces
PAF108544	Ļ	Oval head bolt with inner multiple-tooth head M12 x $1.5 \times 90$	1 piece
971407624	1	Spin washer	1 piece
N 1027230	2	Hexagon collar nut, self-locking M10	1 piece
N 0150818		Hexagon collar nut, M12 x 1.5	1 piece
N 1079360	3	Hexagon-head bolt, M12 x 60	1 piece

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WHT007021	Hexagon nut, self-locking with washer, M22 x 1.5	1 piece
PAF102861	Hexagon collar nut, self-locking M10	1 piece
PAF911085	Collared cheese head bolt with multiple-tooth head M10 x 60	I, 1 piece
N 91244301	Hexagon-head bolt with hexagon socket head (Duo M12 x 1.5 x 90	b) 6 pieces
WHT001938	Hexagon nut, self-locking, M14 x 1.5	2 pieces
WHT007646	Eccentric screw, M14 x 1.5 x 105	2 pieces
PAF009123	Eccentric screw, M12 x 1.5	2 pieces
N 10456004	Allen socket countersunk screw, self-locking M6 x 12	1 piece
N 10261307	M10 hexagon nut	2 pieces
For vehicles with the (M-No. A8F)	following equipment: Equipment "Basic" (M-No. A8	BD) or equipment "S"
PAF004571	Collared cheese head bolt with multiple-tooth head M14 x 1.5 x 115	I, 2 pieces
or		
For vehicles with the (M-No. A8F)	following equipment: Equipment "Basic" (M-No. A8	BD) or equipment "S"

#### PAF004572 Collared cheese head bolt with multiple-tooth head, 2 pieces M14 x 1.5 x 135

### **Required materials:** 00004330508 Optimoly TA (aluminium paste) 0.04 piece $\Rightarrow$ Damage number WPN5 066 000 2

#### Scope 11: Replacing air-spring struts on right and left front axle

Valid for vehicles with the following equipment: Cross Turismo (M-No. K8X) •

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Labor time	:		
Replacing ai Includes:	ir-spring struts o Isolating high- high-voltage s Bleed and fill k Measuring fro Adjusting vehi Calibrating ca Calibrating fro Adjusting dista	Labor time: <b>1041 TU</b>	
Required p	arts:		
V04015001	AN	Air spring damper (left)	1 piece
V04015001	AP	Air spring damper (right)	1 piece
N 1026131	1	M10 hexagon nut	6 pieces
PAF909664		Hexagon collar nut, self-locking, M12 x 1.5	4 pieces
PAF108544		Oval head bolt with inner multiple-tooth head M12 x $1.5 \times 90$	2 pieces
9J1407623	}	Spin washer	1 piece
971407624	1	Spin washer	1 piece
N 1027230	2	Hexagon collar nut, self-locking M10	2 pieces
N 0150818		Hexagon collar nut, M12 x 1.5	2 pieces
N 1079360	3	Hexagon-head bolt, M12 x 60	2 pieces
WHT00702	1	Hexagon nut, self-locking with washer, M22 x 1.5	2 pieces
PAF102861		Hexagon collar nut, self-locking M10	2 pieces
PAF911085	i i	Collared cheese head bolt with multiple-tooth head M10 x 60	, 2 pieces
N 9124430	)1	Hexagon-head bolt with hexagon socket head (Duo M12 x 1.5 x 90	) 6 pieces
WHT00193	8	Hexagon nut, self-locking, M14 x 1.5	2 pieces
WHT00764	6	Eccentric screw, M14 x 1.5 x 105	2 pieces
PAF009123	ł	Eccentric screw, M12 x 1.5	2 pieces
N 1045600	4	Allen socket countersunk screw, self-locking M6 x 12	2 pieces
N 1026130	7	M10 hexagon nut	2 pieces

For vehicles with the follo (M-No. A8F)	wing equipment: Equipment "Basic" (M-No. A8D)	or equipment "S"	
PAF004571	Collared cheese head bolt with multiple-tooth head, M14 x $1.5$ x $115$	4 pieces	
or			
For vehicles with the follo (M-No. A8F)	wing equipment: Equipment "Basic" (M-No. A8D)	or equipment "S"	
PAF004572	Collared cheese head bolt with multiple-tooth head, M14 x $1.5 x 135$	4 pieces	
Required materials:			
00004330508	Optimoly TA (aluminium paste)	0.04 piece	
$\Rightarrow$ Damage number WPN5 066 000 2			

#### Scope 12: Replacing air-spring struts on right and left front axle

- Valid for vehicles with the following equipment: Cross Turismo (M-No. K8X)
- Only for vehicles for which only the **replacement of an air-spring strut is planned**, but **both air-spring struts** have been replaced depending on mileage

Labor time:				
Includes:	Replacing air-spring struts on right and left front axle Includes: Isolating high-voltage system from power supply/Starting high-voltage system Bleed and fill level control Measuring front and rear vehicle Adjusting vehicle at front and rear Calibrating camera for night vision system Calibrating front camera Adjusting distance measuring sensor control unit		Labor time: <b>1041 TU</b>	
Required pa	rts:			
V04015001A	N	Air spring damper (left)	1 piece	
V04015001A	۱P	Air spring damper (right)	1 piece	
N 10261311		M10 hexagon nut	6 pieces	
PAF909664		Hexagon collar nut, self-locking, M12 x 1.5	4 pieces	

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PAF108544	Oval head bolt with inner multiple-tooth head M12 x $1.5 \text{ x } 90$	2 pieces			
9J1407623	Spin washer	1 piece			
971407624	Spin washer	1 piece			
N 10272302	Hexagon collar nut, self-locking M10	2 pieces			
N 0150818	Hexagon collar nut, M12 x 1.5	2 pieces			
N 10793603	Hexagon-head bolt, M12 x 60	2 pieces			
WHT007021	Hexagon nut, self-locking with washer, M22 x 1.5	2 pieces			
PAF102861	Hexagon collar nut, self-locking M10	2 pieces			
PAF911085	Collared cheese head bolt with multiple-tooth head, M10 x 60	2 pieces			
N 91244301	Hexagon-head bolt with hexagon socket head (Duo) M12 x 1.5 x 90	6 pieces			
WHT001938	Hexagon nut, self-locking, M14 x 1.5	2 pieces			
WHT007646	Eccentric screw, M14 x 1.5 x 105	2 pieces			
PAF009123	Eccentric screw, M12 x 1.5	2 pieces			
N 10456004	Allen socket countersunk screw, self-locking M6 x 12	2 pieces			
N 10261307	M10 hexagon nut	2 pieces			
For vehicles with the follow (M-No. A8F)	wing equipment: Equipment "Basic" (M-No. A8D)	or equipment "S"			
PAF004571	Collared cheese head bolt with multiple-tooth head, M14 x $1.5 x 115$	4 pieces			
or					
For vehicles with the follow (M-No. A8F)	wing equipment: Equipment "Basic" (M-No. A8D)	or equipment "S"			
PAF004572	Collared cheese head bolt with multiple-tooth head, M14 x 1.5 x 135	4 pieces			
Required materials:					
00004330508	Optimoly TA (aluminium paste)	0.04 piece			
$\Rightarrow$ Damage number WPN5 066 000 2					

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