

Model(s)	Year(s)	Eng. Code(s)	Trans. Code(s)	VIN Range From	VIN Range To
All (except Routan)	2015- <mark>2019</mark>	All	All	All	All

Condition

46 19 01 January 10, 2019 **2010245/24** Supersedes Technical Bulletin 46-17-02 (V461702) dated November 21, 2017 to include model year 2019 applicability.

Vibration or Noise When Braking (U.S. Only)

Technical Background

Vibration or noise when braking may be due to brake disc corrosion protection which has not been completely removed by normal braking or surface rust built up during transportation.

I Note:

This Technical Bulletin only applies <u>once</u> at PDI. Please note that vehicles in dealer inventory should be maintained per the recommended 30 days maintenance procedure to prevent excessive rust build up.

Production Solution

No production change required.

Service

Vehicle Inspection

I Note:

Abide by ALL traffic laws and be mindful of the vehicles around you while operating the vehicle.

- Check and adjust tire pressure.
- Accelerate vehicle to greater than 55 MPH (80 km/h).
- Apply brake firmly.



Vehicles requiring front, rear, or both disc cleaning will exhibit vibration and/or noise.

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For vehicles equipped with Electronic Parking Brake (EPB), DO NOT APPLY PARKING BRAKE WHILE VEHICLE IS IN MOTION.

Affected rear discs will have uneven color across the friction surface.

On vehicles with EPB, this will determine if rear discs need to be sanded.

The following steps apply to vehicles without Electronic Parking Brake (EPB):

- Accelerate vehicle to 30 MPH (50 km/h).
- Carefully apply parking brake.

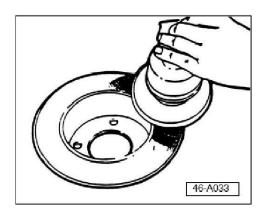
If vibration or noise IS observed:

Clean the front brake discs, the rear brake discs, or both the front and rear brake discs depending on the location of the observed vibration/noise.

Disassembly Inspection

- Remove wheels, disassemble brake calipers, and remove brake disc. See the appropriate Repair Manual for the vehicle you are servicing.
- Paint mark brake discs for reinstallation (Left/Right).
- Paint mark brake pads for reinstallation (Left/Right, Inner/Outer).
- Inspect all brake components for damage from outside influences.
- Using a micrometer, measure brake disc thickness. See appropriate Repair Manual in Elsa for minimum brake disc thickness.

Brake Disc Surface Cleaning



Remove remaining corrosion protection coating or surface rust as follows:

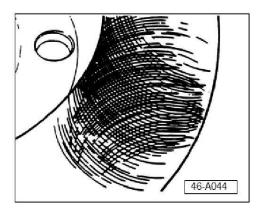
 Sand brake disc surfaces until clean metal is visible using leading edge of 40-grit sanding disc in a clockwise direction (1-2 minute per surface).

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Deglaze and Clean Brake Pads

46-A023

Replace sanding disc prior to moving to next brake disc surface.

To achieve a crosshatch pattern:

• Repeat sanding process using trailing edge of 80-grit sanding disc in a counterclockwise direction.

Replace sanding disc prior to moving to next brake disc surface.

Clean all brake disc friction surfaces using soap and water solution.

ітір:

Brake discs must be free of dust and particles left behind due to the sanding process.

- Place 80-grit sand paper on flat hard surface.
- Carefully sand brake pads until the surface glazing is removed.

I Note:

Use one new 80 grit sand paper sheet per set of brake pads.

Tip:

See appropriate Repair Manual in Elsa for new brake pad thickness dimensions.

Reassembly

- Install brake discs, brake pads, brake calipers, and wheels. See appropriate Repair Manual in Elsa for vehicle you are servicing.
- Road test vehicle to confirm vibration or noise concern is corrected.

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Warranty

To determine if this procedure is covered under Warranty, always refer to the Warranty Policies and Procedures Manual ¹⁾

Model(s)	Year(s)		Eng. Code(s)	Trans. Code(s)		lange om	VIN Range To	
All (except Routan)	2015-2019		All	All	Α	JI	All	
				SAGA Cod	ling			
Claim Type:			Use ap	plicable Claim Ty	pe ¹⁾		Γ	
Service Num	ber		Dama	ge Code	HST		Dan	age Location
4650			0	020		001 – Left 002 – Right		
4653			0	020		001 – Left 002 – Right		
				an/Eos/Touareg, /eGolf, Atlas	WWO ²⁾		VO ²⁾	
			Golf/Golf Sport	etle Cabrio, and Wagen, Alltrack, n LWB		31	1E ²⁾	
				CC/Tiguan/	/Eos			
				Front Brake Ser	vice Only			
Labor Operation	3): Rem	iove and	l Reinsta	all Front Wheels	44052000 = See E	Elsa for l	atest tim	e units
Labor Operation 3): Remove and Reinstall Front Brake Carriers				46142050 = See Elsa for latest time units			e units	
Labor Operation 3): Remove and Reinstall Front Discs			all Front Discs	46502050 = See Elsa for latest time units			e units	
Labor Operation	3): Sano	ding Fro	nt Discs	and Pads	46503099 = 35 TL	J		
				OR				

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Rear Brake Service Only						
Labor Operation 3): Remove and Reinstall Rear Wheels	44052000 = See Elsa for latest time units					
Labor Operation 3): Remove and Reinstall Rear Brake Carriers	46152050 = See Elsa for latest time units					
Labor Operation 3): Remove and Reinstall Rear Discs	46532050 = See Elsa for latest time units					
Labor Operation 3): Sanding Rear Discs and Pads	46503099 = 35 TU					
OR						
Front and Rear Br	ake Service					
Labor Operation 3): Remove and Reinstall Front and Rear Wheels	44052004 = See Elsa for latest time units					
Labor Operation 3): Remove and Reinstall Front and Rear Carriers	46142050 = See Elsa for latest time units and					
	46152050 = See Elsa for latest time units					
Labor Operation 3): Remove and Reinstall Front and Rear Discs	46502050 = See Elsa for latest time units and					
	46532050 = See Elsa for latest time units					
Labor Operation 3): Sanding Front and Rear Discs and Pads	46503099 = 50 TU					
OR						
Atlas, Tiguar	ו LWB					
Front Brake Ser	vice Only					
Labor Operation 3): Remove and Reinstall Front Wheels	44052000 = See Elsa for latest time units					
Labor Operation 3): Remove and Reinstall Front Brake Carriers	46142050 = See Elsa for latest time units					
Labor Operation 3): Remove and Reinstall Front Discs	46502050 = See Elsa for latest time units					
Labor Operation 3): Sanding Front Discs and Pads	46503099 = 35 TU					
OR						

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Rear Brake Service Only						
Labor Operation 3): Remove and Reinstall Rear Wheels	44052000 = See Elsa for latest time units					
Labor Operation 3): Remove and Reinstall Rear Brake Carriers	46152050 = See Elsa for latest time units					
Labor Operation 3): Remove and Reinstall Rear Discs	46532050 = See Elsa for latest time units					
Labor Operation 3): Sanding Rear Discs and Pads	46503099 = 35 TU					
OR						
Front and Rear Br	ake Service					
Labor Operation 3): Remove and Reinstall Front and Rear Wheels	44052004 = See Elsa for latest time units					
Labor Operation 3): Remove and Reinstall Front and Rear Carriers	46142050 = See Elsa for latest time units and					
	46152050 = See Elsa for latest time units					
Labor Operation 3): Remove and Reinstall Front and Rear	46502050 = See Elsa for latest time units and					
Discs	46532050 = See Elsa for latest time units					
Labor Operation 3): Sanding Front and Rear Discs and Pads	46503099 = 50 TU					
OR						
Passat						
Front Brake Ser	vice Only					
Labor Operation 3): Remove and Reinstall Front Wheels	44052000 = See Elsa for latest time units					
Labor Operation 3): Remove and Reinstall Front Discs	46502050 = See Elsa for latest time units					
Labor Operation 3): Sanding Front Discs and Pads	46503099 = 35 TU					
Rear Brake Ser	vice Only					
Labor Operation 3): Remove and Reinstall Rear Wheels	44052000 = See Elsa for latest time units					



Labor Operation 3): Remove and Reinstall Rear Discs	46532050 = See Elsa for latest time units					
Labor Operation 3): Sanding Rear Discs and Pads	46503099 = 35 TU					
OR						
Front and Rear Brake Service						
Labor Operation 3): Remove and Reinstall Front and Rear Wheels	44052004 = See Elsa for latest time units					
Labor Operation 3): Remove and Reinstall Front and Rear Discs	46502050 = See Elsa for latest time units and					
	46532050 = See Elsa for latest time units					
Labor Operation 3): Sanding Front and Rear Discs and Pads	46503099 = 50 TU					
OR						
Jetta/Beetle/Beetle Cabrio						
Front Brake Service Only						
Labor Operation 3): Remove and Reinstall Front Wheels 44052000 = See Elsa for latest time units						
Labor Operation 3): Remove and Reinstall Front Discs	46502050 = See Elsa for latest time units					
Labor Operation 3): Remove and Reinstall Front Brake Carriers	46142050 = See Elsa for latest time units					
Labor Operation 3): Sanding Front Discs and Pads	46503099 = 35 TU					
Rear Brake Ser	vice Only					
Labor Operation 3): Remove and Reinstall Rear Wheels	44052000 = See Elsa for latest time units					
Labor Operation 3): Remove and Reinstall Rear Discs	46532050 = See Elsa for latest time units					
Labor Operation 3): Remove and Reinstall Rear Brake Carriers	46152050 = See Elsa for latest time units					
Labor Operation 3): Sanding Rear Discs and Pads	46503099 = 35 TU					
OR						

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Front and Rear Brake Service						
Labor Operation 3): Remove and Reinstall Front and Rear Wheels	44052004 = See Elsa for latest time units					
Labor Operation 3): Remove and Reinstall Front and Rear Discs	46502050 = See Elsa for latest time units and 46532050 = See Elsa for latest time units					
Labor Operation 3): Remove and Reinstall Front and Rear Brake Carriers	46142050 = See Elsa for latest time units and 46152050 = See Elsa for latest time units					
Labor Operation 3): Sanding Front and Rear Discs and Pads	46503099 = 50 TU					
OR						
Touareg						
Front Brake Ser	vice Only					
Labor Operation 3): Remove and Reinstall Front Wheels	44052000 = See Elsa for latest time units					
Labor Operation 3): Remove and Reinstall Front Discs	46502050 = See Elsa for latest time units					
Labor Operation 3): Sanding Front Discs and Pads	46503099 = 35 TU					
OR						
Rear Brake Ser	vice Only					
Labor Operation 3): Remove and Reinstall Rear Wheels	44052000 = See Elsa for latest time units					
Labor Operation 3): Remove and Reinstall Rear Discs	46532050 = See Elsa for latest time units					
Labor Operation 3): Sanding Rear Discs and Pads	46503099 = 35 TU					
OR						
Front and Rear Br	ake Service					

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	1
Labor Operation 3): Remove and Reinstall Front and Rear Wheels	44052004 = See Elsa for latest time units
Labor Operation 3): Remove and Reinstall Front and Rear Discs	46502050 = See Elsa for latest time units and 46532050 = See Elsa for latest time units
Labor Operation 3): Sanding Front and Rear Discs and Pads	46503099 = 50 TU
OR	
MY15-19 Golf SportW	/agen, Alltrack
Front Brake Ser	vice Only
Labor Operation 3): Remove and Reinstall Front Wheels	44052000 = See Elsa for latest time units
Labor Operation 3): Remove and Reinstall Front Brake Carriers	46142050 = See Elsa for latest time units
Labor Operation 3): Remove and Reinstall Front Discs	46502050 = See Elsa for latest time units
Labor Operation 3): Sanding Front Discs and Pads	46503099 = 35 TU
OR	
Rear Brake Serv	vice Only
Labor Operation 3): Remove and Reinstall Rear Wheels	44052000 = See Elsa for latest time units
Labor Operation 3): Remove and Reinstall Rear Discs	46532050 = See Elsa for latest time units
Labor Operation 3): Sanding Rear Discs and Pads	46503099 = 35 TU
OR	
Front and Rear Br	ake Service
Labor Operation 3): Remove and Reinstall Front and Rear Wheels	44052004 = See Elsa for latest time units
Labor Operation 3): Remove and Reinstall Front Carriers	46142050 = See Elsa for latest time units



	Г					
Labor Operation 3): Remove and Reinstall Front and Rear Discs	46502050 = See Elsa for latest time units and					
	46532050 = See Elsa for latest time units					
Labor Operation 3): Sanding Front and Rear Discs and Pads	46503099 = 50 TU					
Golf/Golf R/	eGolf					
Front Brake Ser	vice Only					
Labor Operation 3): Remove and Reinstall Front Wheels	44052000 = See Elsa for latest time units					
Labor Operation 3): Remove and Reinstall Front Brake Carriers	46142050 = See Elsa for latest time units					
Labor Operation 3): Remove and Reinstall Front Discs	46502050 = See Elsa for latest time units					
Labor Operation 3): Sanding Front Discs and Pads	46503099 = 35 TU					
OR						
Rear Brake Serv	vice Only					
Labor Operation 3): Remove and Reinstall Rear Wheels	44052000 = See Elsa for latest time units					
Labor Operation 3): Remove and Reinstall Rear Brake Carriers	46152050 = See Elsa for latest time units					
Labor Operation 3): Remove and Reinstall Rear Discs (Golf R & eGolf)	46532050 = See Elsa for latest time units					
Labor Operation 3): Remove and Reinstall Rear Discs (Golf, Golf GTI)	46532050 = See Elsa for latest time units (carrier included)					
Labor Operation 3): Sanding Rear Discs and Pads	46503099 = 35 TU					
OR						
Front and Rear Br	ake Service					
Labor Operation 3): Remove and Reinstall Front and Rear Wheels	44052004 = See Elsa for latest time units					

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Labor Operation 3): Remove and Reinsta Carriers	and	Elsa for latest time units Elsa for latest time units			
Labor Operation 3): Remove and Reinsta	46502050 = See Elsa for latest time units and 46532050 = See Elsa for latest time units				
Labor Operation 3): Sanding Front and R Pads	ear Discs and	46503099 = 50 TU			
Causal Part:		Select 46503099			
	Outside Ma	terial			
	1 Axle Serv	iced			
40-grit, 6-inch sanding disc And 80-grit, 6-inch sanding disc	Part No: PN01117 or equivalent and Part No: PN01116 or equivalent		\$10.00		
OR					
	2 Axles Serv	viced			
And a		17 or equivalent nd 16 or equivalent	\$20.00		
	Diagnostic T	ime ⁴⁾			
GFF Time expenditure	GFF Time expenditure 01500000 = 00 TU max. NO				
Road Test	01210002 = 10 TU 01210004 = 10 TU		YES		
Technical Diagnosis 01320000 = 00 T		J max.	NO		
Claim Comment: Input "As per Technica	al Bulletin 201024	5" in comment se	ction of Warranty Claim.		
¹⁾ Vehicle may be outside any Warranty in which case this Technical Bulletin is informational only ²⁾ Code per warranty vendor code policy.					

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³⁾ Labor Time Units (TUs) are subject to change with ELSA updates.

⁴⁾ Documentation required per Warranty Policies and Procedures Manual.

Required Parts and Tools

No Special Parts required.

Tool Description	Tool No:	Quantity
6-inch Dual Action sander (Blue Point®)	AT441A or equivalent	-
40-grit, 6-inch sanding disc (3M®)	PN01117 or equivalent	4 (One Axle Serviced) or 8 (Two Axles Serviced)
80-grit, 6-inch sanding disc (3M®)	PN01116 or equivalent	4 (One Axle Serviced) or 8 (Two Axles Serviced)
80-grit sand paper	Obtain from local supplier	4 Sheets
Micrometer (7mm-22mm)	-	-
Metric Scale (0mm-20mm)	-	-

Additional Information

All part and service references provided in this Technical Bulletin are subject to change and/or removal. Always check with your Parts Dept. and Repair Manuals for the latest information.

Document Control Revision Table					
Instance Number	Published Date	Version Number	Reason For Update		
2010245/24	1/10/2019	V461901	Include model year 2019 vehicles.		

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2010245/23	11/21/2017	V461702	Include model year 2018 vehicles.
2010245/22	8/23/16	V461606	Include model year 2017 vehicles.
2010245/21	3/8/16	V461604	To include model year 2016 Passat.
2010245/1	9/9/04	V460402	Original publication.

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