



Technical Bulletin

Model(s)	Year(s)	Eng. Code(s)	Trans. Code(s)	VIN Range From	VIN Range To
All (Except Routan)	2013-2014	All	All	All	All

Condition

46 14 01 January 29, 2014 **2010245** Supersedes T. B. V461301 dated April 1, 2013 to adjust vehicle applicability and include 2014 model year.

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.



Note:

This Technical Bulletin only applies once 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.

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Service

Vehicle Inspection



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.



Tip:

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



WARNING

For vehicle 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:

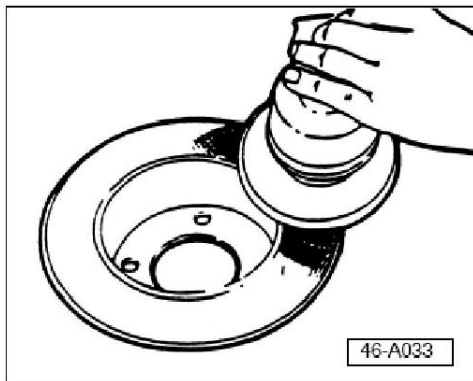
Clean the front brake discs, the rear brake discs, or both the front and rear brake discs depending on the location of the observed vibration/noise.

Disassembly Inspection

- Remove wheels, disassemble brake calipers and remove brake disc. See appropriate Repair Manual for 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 micrometer, measure brake disc thickness. See appropriate Repair Manual in ElsaWeb for minimum brake disc thickness.

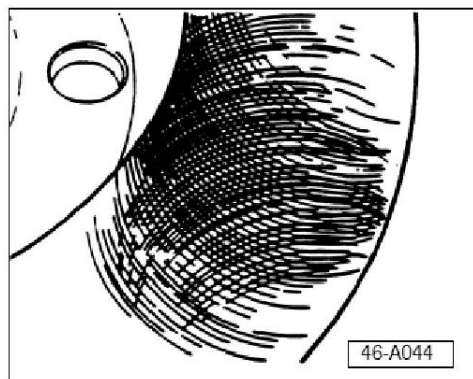
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Brake Disc Surface Cleaning



Remove remaining corrosion protection coating or surface rust as follows:

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



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

To achieve a crosshatch pattern:

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

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

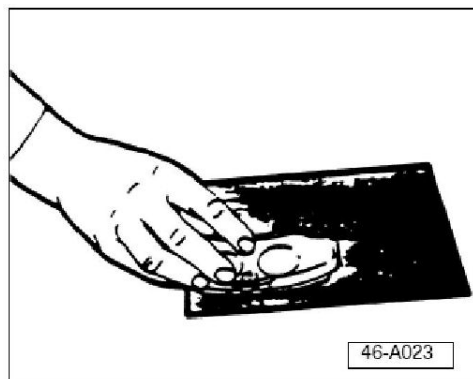
Clean all brake disc friction surfaces using soap and water solution.



Tip:

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

Deglaze and Clean Brake Pads



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

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 **Note:**

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

 **Tip:**

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

Reassembly

- Install brake discs, brake pads, brake calipers and wheels. See appropriate Repair Manual in ElsaWeb for vehicle you are servicing.
- Road test vehicle to confirm vibration 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)	VIN Range From	VIN Range To
All (Except Routan)	2013-2014	All	All	All	All
SAGA Coding					
Claim Type:	Use applicable Claim Type ¹⁾				
Service Number:	Damage Code	HST	Damage Location (Depends on Service No.)		
4650	0020	--	Use applicable when indicated in ElsaWeb (L/R)		
Parts Manufacturer	2013-2014 Eos, CC, Tiguan, Touareg, Golf				WVO ²⁾
	2013-2014 Jetta, Jetta SportWagen, Beetle, Beetle Convertible				3ME ²⁾
	2013-2014 Passat				TX6 ²⁾
Eos, CC, Tiguan, Jetta, Jetta SportWagen, Beetle, and Passat					
Front Brake Service Only					
Labor Operation 3): Remove and Reinstall Front Wheels Only			44052000 = 30 TU		
Labor Operation 3): Remove and Reinstall Front Discs Only			46502050 = 70 TU		
Labor Operation 3): Sanding Front Discs and Pads Only			46503099 = 35 TU		



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OR	
Rear Brake Service Only	
Labor Operation 3): Remove and Reinstall Rear Wheels Only	44052000 = 30 TU
Labor Operation 3): Remove and Reinstall Rear Discs Only	46532050 = 70 TU
Labor Operation 3): Sanding Rear Discs and Pads Only	46503099 = 35 TU
OR	
Front and Rear Brake Service	
Labor Operation 3): Remove and Reinstall Front and Rear Wheels	44052004 = 50 TU
Labor Operation 3): Remove and Reinstall Front and Rear Discs	46502050 = 70 TU
	and
	46532050 = 70 TU
Labor Operation 3): Sanding Front and Rear Discs and Pads	46503099 = 50 TU
OR	
Touareg	
Front Brake Service Only	
Labor Operation 3): Remove and Reinstall Front Wheels Only	44052000 = 30 TU
Labor Operation 3): Remove and Reinstall Front Discs Only	46502050 = 70 TU
Labor Operation 3): Sanding Front Discs and Pads Only	46503099 = 35 TU
OR	



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Rear Brake Service Only	
Labor Operation 3): Remove and Reinstall Rear Wheels Only	44052000 = 30 TU
Labor Operation 3): Remove and Reinstall Rear Discs Only	46532050 = 90 TU
Labor Operation 3): Sanding Rear Discs and Pads Only	46503099 = 35 TU
OR	
Front and Rear Brake Service	
Labor Operation 3): Remove and Reinstall Front and Rear Wheels	44052004 = 50 TU
Labor Operation 3): Remove and Reinstall Front and Rear Discs	46502050 = 70 TU and 46532050 = 90 TU
Labor Operation 3): Sanding Front and Rear Discs and Pads	46503099 = 50 TU
OR	
Golf	
Front Brake Service Only	
Labor Operation 3): Remove and Reinstall Front Wheels Only	44052000 = 30 TU
Labor Operation 3): Remove and Reinstall Front Discs Only	46502050 = 80 TU
Labor Operation 3): Sanding Front Discs and Pads Only	46503099 = 35 TU
OR	



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Rear Brake Service Only	
Labor Operation 3): Remove and Reinstall Rear Wheels Only	44052000 = 30 TU
Labor Operation 3): Remove and Reinstall Rear Discs Only	46532050 = 80 TU
Labor Operation 3): Sanding Rear Discs and Pads Only	46503099 = 35 TU
OR	
Front and Rear Brake Service	
Labor Operation 3): Remove and Reinstall Front and Rear Wheels	44052004 = 50 TU
Labor Operation 3): Remove and Reinstall Front and Rear Discs	46502050 = 80 TU and 46532050 = 80 TU
Labor Operation 3): Sanding Front and Rear Discs and Pads	46503099 = 50 TU
OR	
Beetle Convertible	
Front Brake Service Only	
Labor Operation 3): Remove and Reinstall Front Wheels Only	44052000 = 30 TU
Labor Operation 3): Remove and Reinstall Front Discs Only	46502050 = 90 TU



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Labor Operation 3): Sanding Front Discs and Pads Only	46503099 = 35 TU	
OR		
Rear Brake Service Only		
Labor Operation 3): Remove and Reinstall Rear Wheels Only	44052000 = 30 TU	
Labor Operation 3): Remove and Reinstall Rear Discs Only	46532050 = 90 TU	
Labor Operation 3): Sanding Rear Discs and Pads Only	46503099 = 35 TU	
OR		
Front and Rear Brake Service		
Labor Operation 3): Remove and Reinstall Front and Rear Wheels	44052004 = 50 TU	
Labor Operation 3): Remove and Reinstall Front and Rear Discs	46502050 = 90 TU and 46532050 = 90 TU	
Labor Operation 3): Sanding Front and Rear Discs and Pads	46503099 = 50 TU	
Causal Part:	Select 46503099	
Outside Material		
1 Axle Serviced		
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



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OR		
2 Axles Serviced		
40-grit, 6-inch sanding disc And 80-grit, 6-inch sanding disc	Part No: PN01117 or equivalent and Part No: PN01116 or equivalent	\$20.00
Diagnostic Time ⁴⁾		
GFF Time expenditure	01500000 = 00 TU max.	NO
Road Test	01210002 = 10 TU 01210004 = 10 TU	YES
Technical Diagnosis	01320000 = 00 TU max.	NO
Claim Comment: Input "As per Technical Bulletin 2010245" in comment section 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. ³⁾ Labor Time Units (TUs) are subject to change with ELSA updates. ⁴⁾ Documentation required per Warranty Policies and Procedures Manual.		

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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.