

Technical Bulletin

Model(s)	Year(s)	Eng. Code(s)	Trans. Code(s)	VIN Range From	VIN Range To
All (Except Routan)	2012-2013	All	All	All	All

Condition

46 13 01 April 1, 2013 2010245 Supersedes T. B. V461105 dated April 15, 2011 to adjust applicable model year to 2012 and 2013 models only.

Vibration or Noise When Braking, All Vehicles Except Routan (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.



Tip:

For newer vehicles, within the first 6 months or 6000 miles (9656 km) of vehicle service, refer to brakes system specifications in Elsaweb under: Chassis -> Brake Systems -> 00 General, Technical Data -> Specifications to determine brake service required. For vehicles beyond 6 months or 6000 miles (9656 km) of service, this bulletin is information only. See Technical Bulletin, instance number 2015173, subject matter "Brake disc, Pulsation" for addition repair information.

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 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 all front and rear brake discs.

If vibration or noise IS NOT observed:

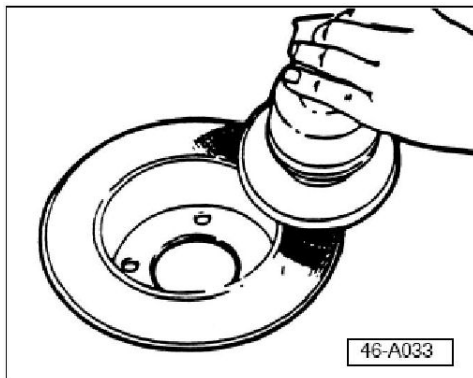
Clean only front discs.

Disassembly Inspection

- Remove wheels, disassemble brake calipers and remove brake disc. See appropriate Repair Manual for vehicle you are servicing.
- Paint mark or scribe 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.

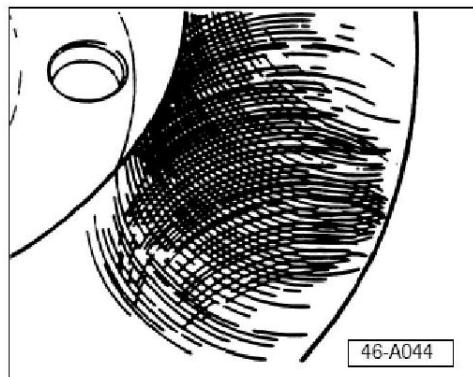
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Brake Disc Surface Cleaning



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.

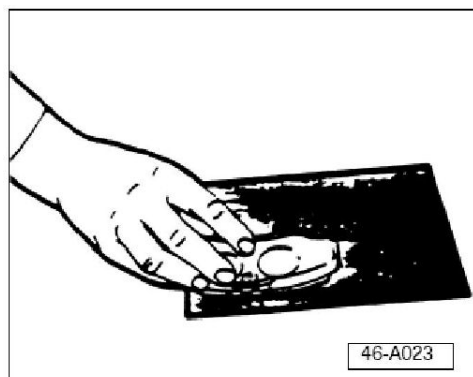
Replace sanding disc prior to moving to next brake disc surface.

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



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.
- Measure brake pad thickness using metric scale.

If any brake pad is equal to or less than 50 percent of original thickness of new brake pads (excluding backing plate):

- Replace all 4 brake pads on axle you are servicing.

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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.

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)	2012-2013	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	Eos, CC, Golf, Tiguan, Touareg				WWO ²⁾
	Jetta, Jetta SportWagen, Beetle, Beetle Convertible				3ME ²⁾
	Passat				TX6 ²⁾
Labor Operation ³⁾ : Sanding Front Discs and Pads Only			46503099 = 36 TU (Does not include brake disc removal or installation)		
OR					
Labor Operation ³⁾ : Sanding Front Rear Discs and Pads			46503099 = 50 TU (Does not include brake disc removal or installation)		



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Causal Part:		Select 46503099
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.		
<p>¹⁾ Vehicle may be outside any Warranty in which case this Technical Bulletin is informational only</p> <p>²⁾ Code per warranty vendor code policy.</p> <p>³⁾ Labor Time Units (TUs) are subject to change with ELSA updates.</p> <p>⁴⁾ Documentation required per Warranty Policies and Procedures Manual.</p>		

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®)	9183NA or equivalent	4
80-grit sand paper	Obtain from local supplier	–
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.