

Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
All (except Routan)	2014-2015	All	All	All	All
All (except Passat)	2016	All	All	All	All

Condition

46 15 05 August 7, 2015 **2015173** Supersedes T. B. V461406 dated July 3, 2014 to update model and model year applicability.

Brake Disc Pulsation or Vibration (U.S. Only)

When applying brakes at highway speeds the following symptoms may occur:

- Brake pedal pulsation
- · Vibration felt in vehicle body
- · Steering wheel shakes

Technical Background

For brake vibration or pulsation concerns, brake disc machining is allowed between 6 and 12 months or 6,000 and 12,000 miles (whichever comes first) from the warranty in service date.

Production Solution

No production change required.

Service



All policies and procedures outlined in this technical bulletin also apply to sublet brake disc machining. Improperly machined brake discs may cause brake pulsation/vibration after several months in service. The servicing facility will be responsible for these failures.

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Procedure:

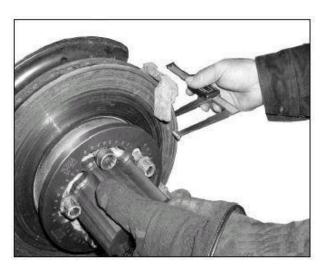
Remove wheels and separate brake calipers from carrier as outlined in Repair Manual Group 44 – Wheels,
 Tires, Vehicle Alignment and Group 46 – Brakes – Mechanical components in Elsa.

Brake Disc Inspection

A detailed brake disc inspection is needed to determine if the brake disc should be machined or replaced.

- Inspect brake disc friction surfaces on both sides of the brake disc for:
- Severe discoloration (bluing)
- High heat surface damage (raised hard spots)
- Visible cracks

Brake discs showing any of the above described conditions are **NOT** serviceable. Parts must be replaced in accordance with the Volkswagen Warranty Policy and Procedure Manual.



Disc Thickness Measuring

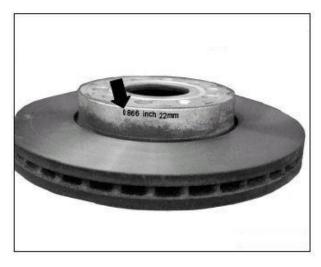
Technician must record the beginning thickness measurements on the back of the repair order.

Each brake disc has the minimum allowed thickness cast, stamped or laser-etched into the disc hub.

Measure the brake disc thickness in 4 locations using either the Pro Cut International™ disc thickness
measuring tool Part No. 50-902 or the Hunter Engineering Company disc thickness measuring tool Part No. 2599-2. Measurements MUST be taken at the same distance from the brake disc outer circumference to ensure
consistency.

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The brake disc thickness measurement must exceed the minimum specification after the machining process is completed in order to be re-used. If the brake disc thickness measurement does not meet this requirement, then replace the brake disc.

Brake Disc Machining



All brake discs must be machined.

Recommended on-car brake lathes are either the PRO-CUT International ™ PFM 9.0, or the Hunter Engineering Company model OCL 400. This design of brake lathe will produce a surface quality which will provide proper brake performance without a brake pad to brake disc break-in period.

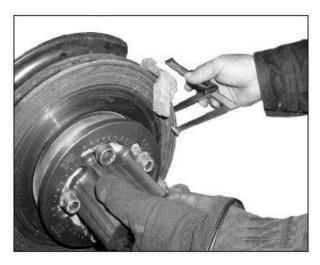
To ensure that a high quality brake disc finish is produced, brake lathe cutting tools must be maintained as directed by the lathe or tool manufacturer.



- Follow the brake lathe manufacturer's instructions for set-up and machining.
- Wash the brake disc with a soap and water solution upon completion of resurfacing to remove all machining particles.

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Technician must record the final thickness measurements on the back of the repair order.

Re-measure brake disc thickness in 4 locations using either the Pro Cut International™ disc thickness measuring tool Part No. 50-902 or the Hunter Engineering Company disc thickness measuring tool Part No. 25-99-2. If recorded brake disc measurement is less than the minimum thickness, the brake disc MUST be replaced.



Always replace brake discs in pairs (front axle or rear axle). Do not replace all 4 brake discs unless it is required.



- Measure brake disc lateral run out using Pro Cut Disc Lateral run out measuring kit Part No. 50-700FC or the Hunter Disc Lateral run out measuring kit Part No. 25-128-2 with a dial indicator.
- Run out must not exceed 0.1mm.
- If brake disc exceed the 0.1mm specification replace the applicable brake discs.

Warranty

To determine if the Procedures Manu		edure is	s covered under V	Varranty, always re	efer to t	he Warranty Po	olicies and
Model(s)	Year(s)		Eng. Code(s)	Trans. Code(s)	VIN Range From		VIN Range To
All (except Routan)	2014-2015		All	All	All		All
All (except Passat)	2016		All	All	All		All
Claim Type:	Use app		plicable Claim Ty	pe ¹⁾			
		1	SA	GA Coding			
Service Number			Damage Code	нѕт		Damage Location (Depends on Service No.)	
4650		0013			Use applicable when indicated in Elsa (L/R)		
MY1 CC/Tiguan/Eos				WWO ²⁾		2)	
Parts Manufacturer		MY14 Jetta SportWagen, MY14- 16 Jetta/Beetle/Beetle Cabrio, and MY15-16 Golf/Golf SportWagen		3ME ²⁾			
On Car Lathe is available (All vehicles)							
Labor Operation 3): Remove and Reinstall Front and Rear Wheels 44052004 = 50 TU							
Labor Operation 3): Front and Rear Disc Resurfacing – On Vehicle			46504699 = 120 TU				
			And				
			46534699 = 120 TU				



0-					
Or Control of a co					
	If On Car Lathe is unavailable:				
MY14-16	CC/Tiguan/Eos				
Labor Operation 3): Remove and Reinstall Front and Rear Wheels 44052004 = 50 TU					
	46142050 = 90 TU				
Labor Operation 3): Remove and Reinstall Front and Rear Carriers	And				
	46152050 = 90 TU				
	46502050 = 10 TU				
Labor Operation 3): Remove and Reinstall Front and Rear Discs	And				
and Real Bises	46532050 = 10 TU				
	46504699 = 160 TU				
Labor Operation 3): Front and Rear Discs Machining	And				
Macining	46534699 = 160 TU				
	Or				
MY14 Jetta SportWagen, MY14-15 Pa	ssat, and MY14-16 Jetta/Beetle/Beetle Carbio				
Labor Operation 3): Remove and Reinstall Front and Rear Wheels	44052004 = 50 TU				
	46502050 = 70 TU				
Labor Operation 3): Remove and Reinstall Front and Rear Discs	And				
and Nour Diode	46532050 = 70 TU				
	46504699 = 160 TU				
Labor Operation 3): Front and Rear Discs Machining	And				
9	46534699 = 160 TU				
Or					
MY14-16 Touareg					
Labor Operation 3): Remove and Reinstall Front and Rear Wheels 44052004 = 50 TU					



Labor Operation 3): Remove and Reinstall Front and Rear Discs	46502050 = 110 TU And 46532050 = 90 TU				
Labor Operation 3): Front and Rear Discs Machining	46504699 = 160 TU And 46534699 = 160 TU				
	Or				
MY15-16 Golf SportWagen					
Labor Operation 3): Remove and Reinstall Front and Rear Wheels	44052004 = 50 TU				
Labor Operation 3): Remove and Reinstall Front Carriers	46142050 = 80 TU				
Labor Operation 3): Remove and Reinstall Front and Rear Discs	46502050 = 10 TU And 46532050 = 90 TU				
Labor Operation 3): Front and Rear Discs Machining	46504699 = 160 TU And 46534699 = 160 TU				
Or					
M	Y14 Golf				
Labor Operation 3): Remove and Reinstall Front and Rear Wheels	44052004 = 50 TU				
Labor Operation 3): Remove and Reinstall Front and Rear Carriers	46142050 = 90 TU And 46152050 = 90 TU				
Labor Operation 3): Remove and Reinstall Front and Rear Discs	46502050 = 10 TU And 46532050 = 10 TU				



Labor Operation 3): Front and Romachining	ear Discs	46504699 = 160 TU And 46534699 = 160 TU			
		Or			
MY15-16 Golf/Golf R/eGolf					
Labor Operation 3): Remove and Reinstall Front and Rear Wheels		44052004 = 50 TU			
		46142050 = 80 TU			
Labor Operation 3): Remove and and Rear Carriers	l Reinstall Front	And			
		46152050 = 80 TU			
		46502050 = 10 TU			
Labor Operation 3): Remove and and Rear Discs	I Reinstall Front	And			
		46532050 = 10 TU			
		46504699 = 160 TU			
Labor Operation 3): Front and Roman Machining	ear Discs	And			
		46534699 = 160 TU			
Outside Labor: Sublet Machining	9	Sublet Machining not to exceed Elsa SRT			
Causal Part:		Select Labor			
	Diagr	nostic Time 4)			
GFF Time expenditure	01500000 = 00 TU	U max.	NO		
Road Test 01210002 = 10 TU		IJ	YES		
	01210004 = 10 TU				
Technical Diagnosis	01320000 = 00 TU max.		NO		
Claim Comment: Input "As per Technical Bulletin 2015173" 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 Policy Procedures Manual.

Required Parts and Tools

No Special Parts required.

Description	Part No:	Quantity	
Pro Cut ™ Disc Thickness Measuring Tool	50-902	1	
Hunter Disc Thickness Measuring Tool	25-99-2	1	
Pro Cut Disc Lateral Run out Measuring Tool	50-700FC	1	
Hunter Disc Lateral Run out Measuring Tool	25-128-2	1	
PRO-CUT International ™PFM 9.0	PCIPFM90VW	1	
Hunter Engineering Company Model OCL 400	HUNOCL400VW	1	

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.