



# Technical Bulletin

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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

## Condition

**46 16 01** January 12, 2016 **2010245** Supersedes T. B. V461504 dated August 7, 2015 to update warranty table to include Elsa updates.

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 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

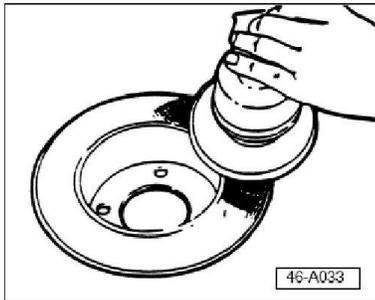
- Remove wheels, disassemble brake calipers, and remove brake disc. See the appropriate Repair Manual for the vehicle you are servicing.
- Paint mark brake discs for reinstallation (Left/Right).
- Paint mark brake pads for reinstallation (Left/Right, Inner/Outer).
- Inspect all brake components for damage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



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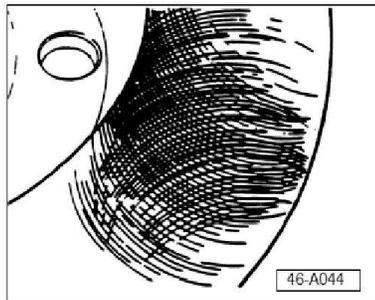
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## Brake Disc Surface Cleaning



Remove remaining corrosion protection coating or surface rust as follows:

- Sand brake disc surfaces until clean metal is visible using leading edge of 40-grit sanding disc in a clockwise direction (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 trailing edge of 80-grit sanding disc in a clockwise direction.

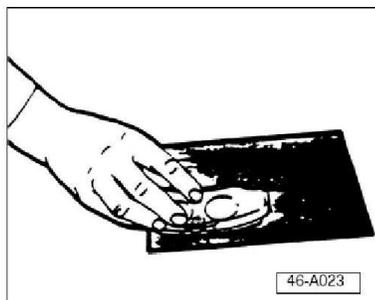
Replace sanding disc prior to moving to next brake disc surface.

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

 **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.

 **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.



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## 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

<b>To determine if this procedure is covered under Warranty, always refer to the Warranty Policies and Procedures Manual <sup>1)</sup></b>					
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
<b>SAGA Coding</b>					
<b>Claim Type:</b>		<b>Use applicable Claim Type <sup>1)</sup></b>			
Service Number	Damage Code	HST		Damage Location (Depends on Service No.)	
4650	0020	--		Use applicable when indicated in Elsa (L/R)	
<b>Parts Manufacturer</b>		MY14 Golf, MY14-15 Passat, MY14-16 CC/Tiguan/Eos/Touareg, and MY15-16 Golf R/eGolf		WVO <sup>2)</sup>	
		MY14 Jetta SportWagen, MY14-16 Jetta/Beetle/Beetle Cabrio, and MY15-16 Golf/Golf SportWagen		3ME <sup>2)</sup>	
<b>MY14-16 CC/Tiguan/Eos</b>					
<b>Front Brake Service Only</b>					
<b>Labor Operation 3): Remove and Reinstall Front Wheels</b>			44052000 = 30 TU		
<b>Labor Operation 3): Remove and Reinstall Front Brake Carriers</b>			46142050 = 90 TU		
<b>Labor Operation 3): Remove and Reinstall Front Discs</b>			46502050 = 10 TU		



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Labor Operation 3): Sanding Front Discs and Pads	46503099 = 35 TU
OR	
<b>Rear Brake Service Only</b>	
Labor Operation 3): Remove and Reinstall Rear Wheels	44052000 = 30 TU
Labor Operation 3): Remove and Reinstall Rear Brake Carriers	46152050 = 90 TU
Labor Operation 3): Remove and Reinstall Rear Discs	46532050 = 10 TU
Labor Operation 3): Sanding Rear Discs and Pads	46503099 = 35 TU
OR	
<b>Front and Rear Brake Service</b>	
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): Sanding Front and Rear Discs and Pads	46503099 = 50 TU
OR	
<b>MY14-15 Passat</b>	
<b>Front Brake Service Only</b>	
Labor Operation 3): Remove and Reinstall Front Wheels	44052000 = 30 TU
Labor Operation 3): Remove and Reinstall Front Discs	46502050 = 70 TU



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<b>Labor Operation 3): Sanding Front Discs and Pads</b>	<b>46503099 = 35 TU</b>
<b>Rear Brake Service Only</b>	
<b>Labor Operation 3): Remove and Reinstall Rear Wheels</b>	<b>44052000 = 30 TU</b>
<b>Labor Operation 3): Remove and Reinstall Rear Discs</b>	<b>46532050 = 70 TU</b>
<b>Labor Operation 3): Sanding Rear Discs and Pads</b>	<b>46503099 = 35 TU</b>
<b>OR</b>	
<b>Front and Rear Brake Service</b>	
<b>Labor Operation 3): Remove and Reinstall Front and Rear Wheels</b>	<b>44052004 = 50 TU</b>
<b>Labor Operation 3): Remove and Reinstall Front and Rear Discs</b>	<b>46502050 = 70 TU</b> <b>and</b> <b>46532050 = 70 TU</b>
<b>Labor Operation 3): Sanding Front and Rear Discs and Pads</b>	<b>46503099 = 50 TU</b>
<b>OR</b>	
<b>MY14 Jetta SportWagen, and MY14-16 Jetta/Beetle/Beetle Cabrio</b>	
<b>Front Brake Service Only</b>	
<b>Labor Operation 3): Remove and Reinstall Front Wheels</b>	<b>44052000 = 30 TU</b>
<b>Labor Operation 3): Remove and Reinstall Front Discs</b>	<b>46502050 = 10 TU</b>
<b>Labor Operation 3): Remove and Reinstall Front Brake Carriers</b>	<b>46142050 = 90 TU</b>
<b>Labor Operation 3): Sanding Front Discs and Pads</b>	<b>46503099 = 35 TU</b>
<b>Rear Brake Service Only</b>	
<b>Labor Operation 3): Remove and Reinstall Rear Wheels</b>	<b>44052000 = 30 TU</b>



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<b>Labor Operation 3): Remove and Reinstall Rear Discs</b>	<b>46532050 = 10 TU</b>
<b>Labor Operation 3): Remove and Reinstall Rear Brake Carriers</b>	<b>46152050 = 90 TU</b>
<b>Labor Operation 3): Sanding Rear Discs and Pads</b>	<b>46503099 = 35 TU</b>
<b>OR</b>	
<b>Front and Rear Brake Service</b>	
<b>Labor Operation 3): Remove and Reinstall Front and Rear Wheels</b>	<b>44052004 = 50 TU</b>
<b>Labor Operation 3): Remove and Reinstall Front and Rear Discs</b>	<b>46502050 = 10 TU</b> <b>and</b> <b>46532050 = 10 TU</b>
<b>Labor Operation 3): Remove and Reinstall Front and Rear Brake Carriers</b>	<b>46142050 = 90 TU</b> <b>and</b> <b>46152050 = 90 TU</b>
<b>Labor Operation 3): Sanding Front and Rear Discs and Pads</b>	<b>46503099 = 50 TU</b>
<b>OR</b>	
<b>MY14-16 Touareg</b>	
<b>Front Brake Service Only</b>	
<b>Labor Operation 3): Remove and Reinstall Front Wheels</b>	<b>44052000 = 30 TU</b>
<b>Labor Operation 3): Remove and Reinstall Front Discs</b>	<b>46502050 = 110 TU</b>
<b>Labor Operation 3): Sanding Front Discs and Pads</b>	<b>46503099 = 35 TU</b>
<b>OR</b>	
<b>Rear Brake Service Only</b>	
<b>Labor Operation 3): Remove and Reinstall Rear Wheels</b>	<b>44052000 = 30 TU</b>



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Labor Operation 3): Remove and Reinstall Rear Discs	46532050 = 90 TU
Labor Operation 3): Sanding Rear Discs and Pads	46503099 = 35 TU
OR	
<b>Front and Rear Brake Service</b>	
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): Sanding Front and Rear Discs and Pads	46503099 = 50 TU
OR	
<b>MY15-16 Golf SportWagen</b>	
<b>Front Brake Service Only</b>	
Labor Operation 3): Remove and Reinstall Front Wheels	44052000 = 30 TU
Labor Operation 3): Remove and Reinstall Front Brake Carriers	46142050 = 80 TU
Labor Operation 3): Remove and Reinstall Front Discs	46502050 = 10 TU
Labor Operation 3): Sanding Front Discs and Pads	46503099 = 35 TU
OR	
<b>Rear Brake Service Only</b>	
Labor Operation 3): Remove and Reinstall Rear Wheels	44052000 = 30 TU
Labor Operation 3): Remove and Reinstall Rear Discs	46532050 = 90 TU
Labor Operation 3): Sanding Rear Discs and Pads	46503099 = 35 TU



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<b>OR</b>	
<b>Front and Rear Brake Service</b>	
<b>Labor Operation 3): Remove and Reinstall Front and Rear Wheels</b>	<b>44052004 = 50 TU</b>
<b>Labor Operation 3): Remove and Reinstall Front Carriers</b>	<b>46142050 = 80 TU</b>
<b>Labor Operation 3): Remove and Reinstall Front and Rear Discs</b>	<b>46502050 = 10 TU and 46532050 = 90 TU</b>
<b>Labor Operation 3): Sanding Front and Rear Discs and Pads</b>	<b>46503099 = 50 TU</b>
<b>OR</b>	
<b>MY14 Golf</b>	
<b>Front Brake Service Only</b>	
<b>Labor Operation 3): Remove and Reinstall Front Wheels</b>	<b>44052000 = 30 TU</b>
<b>Labor Operation 3): Remove and Reinstall Front Brake Carriers</b>	<b>46142050 = 90 TU</b>
<b>Labor Operation 3): Remove and Reinstall Front Discs</b>	<b>46502050 = 10 TU</b>
<b>Labor Operation 3): Sanding Front Discs and Pads</b>	<b>46503099 = 35 TU</b>
<b>OR</b>	
<b>Rear Brake Service Only</b>	
<b>Labor Operation 3): Remove and Reinstall Rear Wheels</b>	<b>44052000 = 30 TU</b>
<b>Labor Operation 3): Remove and Reinstall Rear Brake Carriers</b>	<b>46152050 = 90 TU</b>
<b>Labor Operation 3): Remove and Reinstall Rear Discs</b>	<b>46532050 = 10 TU</b>



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Labor Operation 3): Sanding Rear Discs and Pads	46503099 = 35 TU
OR	
<b>Front and Rear Brake Service</b>	
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): Sanding Front and Rear Discs and Pads	46503099 = 50 TU
OR	
<b>MY15-16 Golf/Golf R/eGolf</b>	
<b>Front Brake Service Only</b>	
Labor Operation 3): Remove and Reinstall Front Wheels	44052000 = 30 TU
Labor Operation 3): Remove and Reinstall Front Brake Carriers	46142050 = 80 TU
Labor Operation 3): Remove and Reinstall Front Discs	46502050 = 10 TU
Labor Operation 3): Sanding Front Discs and Pads	46503099 = 35 TU
OR	
<b>Rear Brake Service Only</b>	
Labor Operation 3): Remove and Reinstall Rear Wheels	44052000 = 30 TU
Labor Operation 3): Remove and Reinstall Rear	46152050 = 80 TU



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<b>Brake Carriers</b>		
<b>Labor Operation 3): Remove and Reinstall Rear Discs</b>		<b>46532050 = 10 TU</b>
<b>Labor Operation 3): Sanding Rear Discs and Pads</b>		<b>46503099 = 35 TU</b>
<b>OR</b>		
<b>Front and Rear Brake Service</b>		
<b>Labor Operation 3): Remove and Reinstall Front and Rear Wheels</b>		<b>44052004 = 50 TU</b>
<b>Labor Operation 3): Remove and Reinstall Front and Rear Carriers</b>		<b>46142050 = 80 TU and 46152050 = 80 TU</b>
<b>Labor Operation 3): Remove and Reinstall Front and Rear Discs</b>		<b>46502050 = 10 TU and 46532050 = 10 TU</b>
<b>Labor Operation 3): Sanding Front and Rear Discs and Pads</b>		<b>46503099 = 50 TU</b>
<b>Causal Part:</b>		<b>Select 46503099</b>
<b>Outside Material</b>		
<b>1 Axle Serviced</b>		
<b>40-grit, 6-inch sanding disc And 80-grit, 6-inch sanding disc</b>	<b>Part No: PN01117 or equivalent and Part No: PN01116 or equivalent</b>	<b>\$10.00</b>
<b>OR</b>		
<b>2 Axles Serviced</b>		
<b>40-grit, 6-inch sanding disc And 80-grit, 6-inch sanding disc</b>	<b>Part No: PN01117 or equivalent and Part No: PN01116 or equivalent</b>	<b>\$20.00</b>



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



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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.