

Model(s)	Year(s)	Eng. Code(s)	Trans. Code(s)	VIN Range From	VIN Range To
Jetta, Jetta Wagon	2009	2.0L TDI (CBEA)	All	All	All
Jetta	2010	2.0L TDI (CJAA)	All	All	All
Golf, Jetta SportWagen, Golf Wagon	2010-2014	2.0L TDI (CJAA)	All	All	All
Jetta	2011-2014	2.0L TDI (CJAA)	All	All	All
Beetle, Beetle Convertible	2013-2014	2.0L TDI (CJAA)	All	All	All

Condition

21 15 02 January 20, 2014 2025464 Supersedes T. B. V211404 dated May 1, 2014 for labor operation update.

Frozen Charge Air Cooler – Engine Will Not Start

Engine will not start after standing in cold weather below 0°C (32°F), MIL may be illuminated with various induction and/or boost system faults stored in ECM.

Technical Background

Moisture from the intake air condenses and collects in the charge air cooler. At cold temperatures this moisture can freeze causing blockage of the intake air system.

Production Solution

None.

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Service

Install revised charge air cooler kit P/N 1K0 198 803B to avoid the formation of this moisture in the boost system.

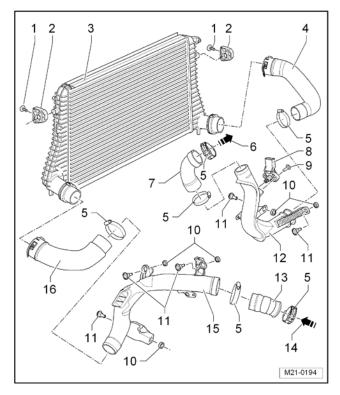
Procedure

- Lock carrier in service position. See Repair Manual Group 50 in Elsa.
- Separate A/C condenser from charge air cooler.
- Remove radiator and radiator fan assembly.
- Remove the original charge air cooler (item 3 in figure 1) from the vehicle.

Tip:

Charge air hoses can be difficult to remove at the charge air cooler, try separating the hoses from the hot and cold charge air pipes before loosening charge air cooler.

 Remove the lower charge pressure hoses (items 4 and 16 in figure 1) and <u>clean of any moisture, ice crystal</u> <u>formation or sludge</u>. See Repair Manual Group 21, Turbocharger/G-Charger, Description and Operation, Component Overview, in Elsa.





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- Remove cold side charge air pipe (item 12 in figure 1) and pressure hose to throttle valve (item 7 in figure 1).
- Separate the A/C condenser from the charge air cooler.
- Remove the radiator and radiator fan assembly.
- Separate the charge air pressure sensor –G31-- from cold side charge air pipe.
- Install charge air pressure sensor -G31- from kit to cold side charge air pipe.
- Loosely fit the pressure hose with new temperature switch to the cold side charge air pipe.

iTip:

By loosely installing pressure hose with switch to cold side charge air pipe allows for "wiggle room" when reinstalling.

• Install the cold side charge air pipe (item 12 in figure 1) and connect the charge air pressure sensor -G31electrical connector.



Figure 2

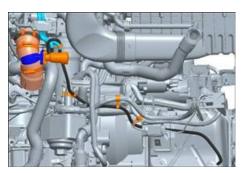
- Note the vacuum hose routing on the temperature switch (figure 2).
- 1. Ventilation hose to air cleaner
- 2. Hose to vacuum source
- 3. Hose to charge air cooler regulator flap

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• Route vacuum overlay harness as seen in figures 3 and 4.





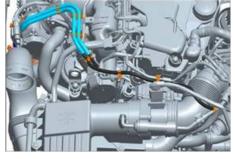


Figure 4



Figure 5

• Cut ventilation hose to air cleaner where indicated in figure 5.

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Figure 6

• Install splice as indicated in figure 6.

Tip:

Note the white tracer on the vacuum hose in figure 6.



Figure 7

• Cut vacuum source hose where indicated in figure 7, and install splice.

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- Install the revised charge air cooler (item 3 in figure 1) with regulating flap and connect the regulating flap vacuum hose.
- Re-assemble all charge air pipe connections.
- Connect A/C condenser to charge air cooler using fasteners from kit, and install radiator with fan assembly.
- Reassemble front carrier.
- Re-aim headlights.



Warranty

Please verify engine code for accurate warranty table selection.

To determine if th Procedures Manu		dure is co	overed under Warı	ranty, always refer	to the Wa	arranty Po	olicies and
Model(s)	Year(s)		Eng. Code(s)	Trans. Code(s)	VIN Ran	ge From	VIN Range To
Jetta, Jetta Wagon	2009		2.0L TDI (CBEA)	All	All		AII
Jetta	2010		2.0L TDI (CJAA)	All	A	ll	All
		1	SAGA	Coding			
Claim Type:		Use app	licable Claim Type	e ¹⁾			
Service Number:			Damage Code	HST		Damage Location (Depends on Service No.)	
2143 005		0055			Use applicable when indicated in ElsaWeb (L/R)		
Parts Manufacture	er		Jetta, Jet	etta Wagon 3ME ²⁾			E ²⁾
Labor Operation ³): Replac	e Charge	Air Cooler	21431983 = 20 TU	J		
Labor Operation ³): Remov	e and Ins	stall Radiator	19701983 = 70 TU			
Labor Operation ³	⁾ :Lock C	arrier Ser	vice Position	50380950 = 40 TU			
Labor Operation ³⁾ : Remove and Install Front Bumper Cover			63291900 = 70 TU OR 63291910 = 90 TU (Cup Edition Only)				
Labor Operation ³⁾ : Install Cold Weather Intercooler Kit				21433199 = 30 TU			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

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Causal Part:	1K0 198 803 B	
	Diagnostic Time 4)	
GFF Time expenditure	01500000 = 30 TU max.	YES
Road Test	01210004 = 10 TU	YES
Technical Diagnosis	01320000 = 00 TU max.	NO
Claim Comment: Input "As per	Technical Bulletin 2025464" in comment	section of Warranty Claim.
¹⁾ Vehicle may be outside any V	Narranty in which case this Technical Bull	etin is informational only
²⁾ Code per warranty vendor co	ode policy.	
³⁾ Labor Time Units (TUs) are s	ubject to change with ELSA updates.	
⁴⁾ Documentation required per	Warranty Policy Procedures Manual.	

Please verify engine code for accurate warranty table selection.

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

			-	-			
Model(s)	Yea	ar(s)	Eng. Code(s)	Trans. Code(s)	VIN Range From	VIN Range To	
Golf	2010	-2014	2.0L TDI (CJAA)	All	All	All	
		1	SAGA	Coding			
Claim Type:	Use applicable Claim Type ¹⁾						
Service Number:			Damage Code	HST		Damage Location (Depends on Service No.	
2143		0055			Use applicable when indicated in ElsaWeb (L/R)		
Parts Manufacturer G			Golf WWO ²⁾		10 ²⁾		
Labor Operation ³ (includes radiator	-	-	e Air Cooler	21431983 = 130 T	U		

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Labor Operation ³⁾ :Lock Carrie	er Service Position	50380950 = 70 TU		
Labor Operation ³⁾ : Remove a Bumper Cover	nd Install Front	63291950 = 40 TU		
Labor Operation ³⁾ : Remove a Grille	nd Install Radiator	66051900 = 20 TU		
Labor Operation ³⁾ : Install Col Kit	d Weather Intercooler	21433199 = 30 TU max.		
Causal Part:		1K0 198 803 B		
	Diagnos	tic Time ⁴⁾		
GFF Time expenditure	01500000 = 30 T	J max.	YES	
Road Test	01210004 = 10 T	J	YES	
Technical Diagnosis	01320000 = 00 T	U max.	NO	
Claim Comment: Input "As pe	r Technical Bulletin 20	25464" in comment	t section of Warranty Claim.	
¹⁾ Vehicle may be outside any	Warranty in which case	e this Technical Bu	lletin is informational only	
²⁾ Code per warranty vendor c	ode policy.			
³⁾ Labor Time Units (TUs) are s	subject to change with	ELSA updates.		
⁴⁾ Documentation required per	Warranty Policy Proce	edures Manual.		

Please verify engine code for accurate warranty table selection.

To determine if th Procedures Manu		s covered under Warr	anty, always refer	to the Warranty Po	olicies and	
Model(s)	Year(s)	Eng. Code(s)	Trans. Code(s)	VIN Range From	VIN Range To	
Jetta	2011-2014	2.0L TDI (CJAA)	All	All	All	
SAGA Coding						
Claim Type: Use applicable Claim Type ¹⁾						

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Service Number:		Damage Code	нѕт	Damage Location (Depends on Service No.)	
2143		0055		Use applicable when indicated in ElsaWeb (L/R)	
Parts Manufacturer		Je	etta	3ME ²⁾	
Labor Operation ³⁾ : Replace Charge Air Cooler (includes radiator R&I, drain & fill)			21431983 = 160 TU		
Labor Operation ³⁾ : Remove and Install Front Bumper Cover			63291950 = 40 TU		
Labor Operation ³⁾ : Remove and Install Radiator Grille			66051900 = 20 TU		
Labor Operation ³⁾ : Install Cold Weather Intercooler Kit			21433199 = 30 TU max.		
Causal Part:			1K0 198 803 B		
		Diagnos	tic Time ⁴⁾		
GFF Time expenditure		01500000 = 30 TL	J max.	YES	
Road Test		01210004 = 10 TU	J	YES	
Technical Diagnosis		01320000 = 00 TU	U max. NO		
Claim Comment: Input "As	s per Tec	hnical Bulletin 202	25464" in comment	t section of Warranty Claim.	
¹⁾ Vehicle may be outside a ²⁾ Code per warranty vende			e this Technical Bu	lletin is informational only	
³⁾ Labor Time Units (TUs) a	•	•	ELSA updates.		

⁴⁾ Documentation required per Warranty Policy Procedures Manual.

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Please verify engine code for accurate warranty table selection.

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

Procedures Manu				1	1		
Model(s)	Yea	ar(s)	Eng. Code(s)	Trans. Code(s)	VIN Ran	ge From	VIN Range To
Jetta SportWagen, Golf Wagon	2010	-2014	2.0L TDI (CJAA)	All	All		All
			SAGA	Coding			
Claim Type:		Use app	licable Claim Type	¹⁾			
Service Num	ber:		Damage Code	HST	Damage Locatic (Depends on Servic		-
2143			0055			Use applicable wh indicated in ElsaW (L/R)	
Parts Manufactur	Parts Manufacturer Jetta SportWa			en, Golf Wagon	3ME ²⁾		E ²⁾
Labor Operation ³⁾ : Replace Charge Air Cooler			Air Cooler	21431983 = 20 TU			
Labor Operation ³): Radiat	or Remov	ve and Install	19701983 = 70 TU			
Labor Operation ³	^{;)} :Lock C	arrier Ser	vice Position	50380950 = 50 TU			
Labor Operation ³ Bumper Cover	"∶Remo	e and Ins	stall Front	63291950 = 40 TU			
Labor Operation ³⁾ : Remove and Install Radiator Grille			stall Radiator	66051900 = 20 TU			
Labor Operation ³⁾ : Install Cold Weather Intercooler Kit			21433199 = 30 TU max.				
Causal Part:			1K0 198 803 B				
			Diagnost	ic Time ⁴⁾			
GFF Time expend	liture		01500000 = 30 TL	J max.		YE	ES
Road Test			01210004 = 10 TU	J		YE	ES

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Technical Diagnosis	01320000 = 00 TU max.	NO				
Claim Comment: Input "As per Technical Bulletin 2025464" 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.						

Please verify engine code for accurate warranty table selection.

Model(s)	Yea	ar(s)	Eng. Code(s)	Trans. Code(s)) VIN Range From VII		VIN Range To
Beetle, Beetle Convertible	2013	-2014	2.0L TDI (CJAA)	All	All		All
			SAGA	Coding			
Claim Type:		Use app	licable Claim Type	2 ¹⁾			
Service Number:		Damage Code	HST		Damage Location (Depends on Service No.)		
2143			0055			Use applicable when indicated in ElsaWeb (L/R)	
Parts Manufactur	er	•	Beetle, Beetl	tle Convertible 3ME ²⁾			E ²⁾
Labor Operation ³ (includes radiator	•		e Air Cooler	21431983 = 160 T	U		
Labor Operation ³⁾ : Remove and Install Front Bumper Cover			63291900 = 70 TU – Beetle 63291900 = 110 TU – Beetle Convertible				
(includes front wheel housing liners loosened + fastened)							
(Convertible inclu removed + reinsta		e dampe	ning pan				

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Labor Operation ³⁾ : Install Cold Weather Intercooler Kit		21433199 = 30 TU max.		
Causal Part:		1K0 198 803 B		
	Diagnos	tic Time ⁴⁾		
GFF Time expenditure	01500000 = 30 TU	J max.	YES	
Road Test	01210004 = 10 TU	J	YES	
Technical Diagnosis	01320000 = 00 TU	J max.	NO	
Claim Comment: Input "As p	er Technical Bulletin 202	25464" in comment	section of Warranty Claim.	
¹⁾ Vehicle may be outside any	y Warranty in which case	e this Technical Bu	lletin 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 po	er Warranty Policy Proce	dures Manual.		

Required Parts and Tools

Part Description	Part No:	Quantity
Cold Weather Intercooler Kit	1K0 198 803 B	1

No Special Tools required.

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.

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