### Technical Bulletin

<table>
<thead>
<tr>
<th>Model(s)</th>
<th>Year</th>
<th>Eng. Code</th>
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<th>Vin Range From</th>
<th>Vin Range To</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jetta, Jetta Wagon</td>
<td>2009</td>
<td>2.0L TDI</td>
<td>All</td>
<td>All</td>
<td>All</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(CBEA)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Golf, Jetta, Jetta</td>
<td>2010-2011</td>
<td>2.0L TDI</td>
<td>All</td>
<td>All</td>
<td>All</td>
</tr>
<tr>
<td>SportWagen, Golf</td>
<td></td>
<td>(CJAA)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wagon</td>
<td></td>
<td></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Parts Description</th>
<th>Part No:</th>
<th>Quantity per repair</th>
<th>Estimated vehicles</th>
<th>Part Ordering Note: at time of release</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cold Weather Intercooler Kit</td>
<td>1K0 198 803B</td>
<td>1</td>
<td>600</td>
<td>Normal ordering process</td>
</tr>
</tbody>
</table>

### Condition

21 11 06 September 06, 2011 2025464 Supersedes T.B. V211102 dated June 14, 2011 to modify warranty table and labor operations for clarification.

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.

### Service

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

### Procedure

- 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.

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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 clean of any moisture or sludge.


Figure 1
• 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.

**Tip:**
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 -G31- electrical connector.

![Diagram showing hose routing](image)

- 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

![Figure 2]

• Route vacuum overlay harness as seen in figures 3 and 4.
- Cut ventilation hose to air cleaner where indicated in figure 5.
Figure 6

- Install splice as indicated in figure 6.

Tip:
Note the white tracer on the vacuum hose in figure 6.
• Cut vacuum source hose where indicated in figure 7, and install splice.
• 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-align headlights.
Warranty

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 "

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<tr>
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Claim Type: Use applicable Claim Type "

<table>
<thead>
<tr>
<th>Service Number:</th>
<th>Damage Code</th>
<th>HST</th>
<th>Damage Location (Depends on Service No.)</th>
<th>Parts Manufacturer (removed part)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2143</td>
<td>0055</td>
<td></td>
<td>Use applicable when indicated in ElsavEWeb (L/R)</td>
<td>3ME</td>
</tr>
</tbody>
</table>

Labor Operation 31: Replace Charge Air Cooler 21431983 = 20 TU
Labor Operation 31: Remove and Install Radiator 19701950 = 70 TU
Labor Operation 31: Lock Carrier Service Position 50380950 = 40 TU
Labor Operation 31: Remove and Install Front Bumper Cover 63291900 = 70 TU 63291910 = 90 TU (Cup Edition Orty)
Labor Operation 31: Install Cold Weather Intercooler Kit 21433199 = 30 TU max. A-time
Labor Operation 31: Aim head lights 941516XX = see ElsavEWeb

Diagnostic Time 6)

GFF Tire expenditure 0150000 = 10 TU max. YES
Road Test 01210002 01210004 NO

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Technical Bulletin

<table>
<thead>
<tr>
<th>Technical Diagnosis</th>
<th>0132xxxx = XX TU max.</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Claim Comment: Input &quot;As per Technical Bulletin 0205464&quot; in comment section of Warranty Claim.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

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)

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Claim Type: Use applicable Claim Type 1)

### SAGA Coding

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<td></td>
<td>Use applicable when indicated in ElsaWeb (L/R)</td>
<td>WWO - Golf 3ME - Jetta, Jetta SportWagen, Golf Wagon</td>
</tr>
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</table>

Labor Operation 31: Replace Charge Air Cooler (includes radiator R&I, drain & fill) 21431983 = 130 TU

Labor Operation 31: Lock Carrier Service Position 50300950 = 50 TU - Jetta/Jetta SportWagen/Golf Wagon 50380950 = 70 TU - Golf

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**Labor Operation R**

- **Remove and Install Front Bumper Cover**
  - 63291950 = 40 TU

- **Remove and Install Radiator Grille**
  - 66051900 = 20 TU

- **Install Cold Weather Intercooler Kit**
  - 21433199 = 30 TU max. A-time

- **Aim headlights**
  - 941516X3XX = see Elsaweb

**Diagnostic Time**

<table>
<thead>
<tr>
<th>GFF Time expenditure</th>
<th>01500000 = 10 TU max.</th>
<th>YES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Road Test</td>
<td>01210002 01210004</td>
<td>NO</td>
</tr>
<tr>
<td>Technical Diagnosis</td>
<td>0132xxx = XX TU max.</td>
<td>NO</td>
</tr>
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**Claim Comment:** Input “As per Technical Bulletin 2025464” in comment section of Warranty Claim.

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**Required Parts and Tools**

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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.