Technical Tip

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<th>Topic</th>
<th>00-18-02TT – DTC Status Bit Explanation</th>
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<tr>
<td>Market area</td>
<td>United States 444 Volkswagen of America, Inc. (6444)</td>
</tr>
<tr>
<td>Brand</td>
<td>Volkswagen</td>
</tr>
<tr>
<td>Date</td>
<td>September 28, 2018</td>
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Condition

**ATTENTION:**

THIS IS A TECH TIP, NOT A TECHNICAL BULLETIN AS TITLED.
TECH TIPS ARE NOT ASSOCIATED WITH WARRANTY CLAIMING.

DTC Status Bit Explanation

<table>
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<tr>
<th>Model(s)</th>
<th>Year</th>
<th>Eng. Code</th>
<th>Trans. Code</th>
<th>VIN Range From</th>
<th>VIN Range To</th>
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<tr>
<td>All</td>
<td>2006-2019</td>
<td>All</td>
<td>All</td>
<td>All</td>
<td>All</td>
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Technical Background

Status Bit information can assist in determining additional ambient condition detail and occurrences of DTCS. Keep in mind that bit information is read from right to left, **NOT** from left to right. Bit numbering always starts with a zero.

Service

- Bit 0 => This Bit is “Test Failed”. This bit is set to 1 if the fault is active. It is set to 0 if the fault is passive or sporadic.

- Bit 1 => This Bit is “Test Failed This Operation Cycle”. This bit is set to 1 if the fault has occurred anytime during the current operation cycle.

- Bit 2 => This Bit is for a “Pending DTC”. This bit is set to 1 if the fault is pending. Pending DTCs become active only if they reoccur a certain number of times in a certain number of drive cycles. The number of reoccurrences and the number of drive cycles depends on the fault.

- Bit 3 => This Bit is “Confirmed DTC”. This bit is set to 1 if the fault is active and matured. This bit indicates that the fault has been continuously active for a specific monitoring routine and is matured enough in the current operation cycle so that it can be said confirmed.

- Bit 4 => This Bit is “Test Not Completed Since Last Clear”. This bit is set to 1 if the monitoring routine for this fault has not completed since the last time the DTCs were cleared.

- Bit 5 => This Bit is “Test Failed Since Last Clear”. This is set to 1 if the monitoring routine has reported that test has failed in any operation cycle at least once after clearing the DTC action is performed.

- Bit 6 => This Bit is “Test Not Completed This Operation Cycle”. This bit is set to 1 if the monitoring routine has not run during the current operation cycle.

- Bit 7 => This Bit is “Warning Indicator Requested/MIL on”. This bit is set to 1 if the MIL light is turned on.
Numbering for BIT reading below:
7,6,5,4,3,2,1,0
0 0 0 0 1 0 0 0

DTC memory entries:

- **Number:** P091900: Gear Shift Position Control Error
- **Error type 2:** passive/sporadic
- **Symptom:** 10643
- **Status:** 00001000

- **Standard ambient conditions:**
  - **Date:** 8/24/18
  - **Time:** 10:05:53 AM
  - **Mileage (DTC):** 8325
  - **Priority:** 0
  - **Frequency counter:** 3
  - **Elimination counter / driving cycle:** 255

![Figure 1]

**Additional Information**

| Revision History |
|------------------|----------------|----------------|
| **Revision Number** | **Released Date** | **Reason For Update** |
| 2052542/1 | 9/28/18 | Original publication. |

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