

# Diagnostic Procedure

## Blue iQ® Fault Code 7195



| FC   | SPN  | FMI | Title                                                                                              |
|------|------|-----|----------------------------------------------------------------------------------------------------|
| 7195 | 8289 | 18  | Fuel System Control Module - Data Valid But Below Normal Operating Range - Moderately Severe Level |

### Part(s) Affected

- OEM fuel pressure transducer (INSITE™ displays as “Engine Inlet Pressure” issue)
- high-pressure fuel filter
- low-pressure fuel hose
- low-pressure fuel filter
- supply solenoid valve (SSV) coil
- SSV
- pressure regulator

### Diagnostic Overview

Fault Code 7195 is a fault triggered when the Blue iQ® Fuel System Control Module (FSCM) detects OEM Engine Inlet Pressure below 60 psi (0.41 MPa) at time of crank request; crank prevented.

### Tools Required

| Item                              | Purpose                                               |
|-----------------------------------|-------------------------------------------------------|
| J1939 OBD-II diagnostic interface | connect vehicle to Cummins® INSITE™ on PC             |
| Cummins® INSITE™                  | diagnostic software                                   |
| wrenches                          | remove, disassemble, and replace suspected components |

### Corrective Action

Fault Code 7195 indicates an engine fuel delivery condition which may be symptomatic of the Hexagon Agility® fuel system. Possible components and issues involved include the following:

- a) HP fuel filter clogged or partially restricted
- b) LP fuel filter clogged or partially restricted
- c) plumbing restriction – blocked line, bent tube, or kinked hose
- d) supply solenoid valve (SSV) failing
- e) pressure regulator failing

Consult vehicle OEM and Cummins® repair literature for additional information.

### NOTICE

**Perform Initial Vehicle Check** (refer to **DSM.0009**) prior to performing diagnostic instructions listed below.

### Circuit / System Verification

1. Connect Cummins® INSITE™ diagnostic tool to vehicle using J1939 OBD-II diagnostic interface and PC and navigate to the “Agility® Fuel Delivery System, CM1881 AFS(18)”.
2. Record all active and stored fault codes and parameters prior to clearing fault codes using INSITE™.
3. Record Engine Inlet Pressure psi.

## Circuit / System Testing

|        |                                                                                                                                                                                  |                                                                                                                                                         |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| Step 1 | Record low-pressure (LP) gauge reading at the fuel management module (FMM).                                                                                                      |                                                                                                                                                         |
|        | <div><div>NOTICE</div>Inspect LP gauge for any indication as to its integrity or accuracy.</div>                                                                                 |                                                                                                                                                         |
|        | LP gauge psi within 10% of Cummins® INSITE™ psi reading?                                                                                                                         |                                                                                                                                                         |
|        | <div>Yes</div> <div>↳ Check Cummins® engine inlet pressure sensor. Refer to OEM procedure.</div>                                                                                 | <div>No</div> <div>↳ Proceed to Step 2.</div>                                                                                                           |
| Step 2 | <div>➤ Depressurize fuel system. Refer to OEM procedure.</div> <div>➤ Remove HP fuel filter bowl and inspect HP fuel filter for obstruction.</div> <div>Obstruction found?</div> |                                                                                                                                                         |
|        | <div>Yes</div> <div>↳ Remove obstruction and change HP fuel filter element. Refer to OEM procedure.</div> <div>↳ Proceed to Reassembly and Validation section.</div>             | <div>No</div> <div>↳ Proceed to Step 3.</div>                                                                                                           |
| Step 3 | Inspect LP fuel filter for obstruction.                                                                                                                                          |                                                                                                                                                         |
|        | Obstruction found?                                                                                                                                                               |                                                                                                                                                         |
|        | <div>Yes</div> <div>↳ Remove obstruction and change LP fuel filter element. Refer to OEM procedure.</div> <div>↳ Proceed to Reassembly and Validation section.</div>             | <div>No</div> <div>↳ Proceed to Step 4.</div>                                                                                                           |
| Step 4 | Remove LP fuel hose and inspect for obstruction.                                                                                                                                 |                                                                                                                                                         |
|        | Obstruction found?                                                                                                                                                               |                                                                                                                                                         |
|        | <div>Yes</div> <div>↳ Remove obstruction or replace LP fuel hose per OEM procedure.</div> <div>↳ Proceed to Reassembly and Validation section.</div>                             | <div>No</div> <div>↳ Proceed to Step 5.</div>                                                                                                           |
| Step 5 | While turning ignition to the ON position, have an assistant listen for an audible click from the supply solenoid valve (SSV) coil.                                              |                                                                                                                                                         |
|        | Click heard?                                                                                                                                                                     |                                                                                                                                                         |
|        | <div>Yes</div> <div>↳ Proceed to Step 6.</div>                                                                                                                                   | <div>No</div> <div>↳ Replace supply solenoid valve (SSV) coil. Refer to OEM procedure.</div> <div>↳ Proceed to Reassembly and Validation section.</div> |

|               |                                                                                                                                                                                |                                                                                                     |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Step 6</b> | ➤ Remove SSV. <i>Refer to OEM instructions.</i><br>➤ Disassemble SSV and inspect for a seized or binding operator (piston/plunger)).<br><b>SSV operator seized or binding?</b> |                                                                                                     |
|               | <b>Yes</b><br>↳ Remove and replace SSV. <i>Refer to OEM procedure.</i><br>↳ <b>Proceed to Reassembly and Validation section.</b>                                               | <b>No</b><br>↳ Possible pressure regulator issue; <b>contact Hexagon Agility Technical Support.</b> |

## Reassembly and Validation

After completing all repairs, always perform the following steps to confirm the issue is fixed:

1. Reconnect all connectors and verify connections are secure.
2. Reattach any enclosure covers and close any fuel system doors.
3. Clear fault codes using Cummins® INSITE™ tool.
4. Run vehicle until it reaches normal operating temperature. *Refer to OEM instructions.*
5. If fault is cleared, return vehicle to duty.

If fault is not cleared, contact Hexagon Agility® Technical Support.

## Hexagon Agility® Customer Care and Technical Services

Fuel system warranty or non-warranty product support may be obtained by calling or emailing Hexagon Agility® Customer Care and Technical Services (CCTS).

Please provide **your name, phone number, email address, and complete vehicle information: VIN, year, make, model, mileage, unit number vehicle owner, and current vehicle location.** A service advisor will contact you to arrange vehicle repair or ship a part.

**833-4-HEX-CARE**  
 (toll-free, U.S. and Canada)  
**+1 949 267 7745**

**Support**  
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