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**Mack Models**

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**Mack Model** LR , TE - TerraPro , AN - Anthem , GR - Granite , PI - Pinnacle

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**Volvo Models**

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**Volvo Model** VNL , VNM , VNR , VNX , VAH , VHD

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**Engine family**

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Engine family Cummins

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**Emission Standard**

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Emission Standard US17 , 2018

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**\*\* SOLUTION \*\***

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**Title** Cummins Powerplant - Fault Code SPN 1081 FMI 31 - Engine Wait to Start Lamp, Condition Exists - **Model Year 2018**

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**Cause** The Engine Control Module (ECM) detected the received status of the Engine Wait to Start Lamp did not match the commanded status.

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**Solution** **If the symptoms described above are encountered on a Cummins-powered vehicle:**

1. In Premium Tech Tool (PTT) under the Program tab, run Operation [1700-22-03-06 Accessory Kit](#).
2. In the Accessory Kit number entry field, enter **85154873**.
3. Click **Program**.
4. Allow the operation to complete and click **Exit**.
5. Verify that the fault code is no longer set at startup.

**If the issue persists following programming:**

**Open an eService case. The case must include:**

- A description of the issue, this fault code, and any other relevant information, especially any other symptoms that may be present.
  - A description of work performed.
  - A complete, current DTC Readout.
  - This solution number.
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Internal comments (BO)

Parameter RJR tells the cluster what message to read for the wait to start lamp. RJR is set to 3 for Cummins shut down wait to start lamp and the value is set to 1 for Mack and Volvo Engines.

Solution visibility

Dealer distribution

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### Function(s)/component(s) affected

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Function affected

MID 140 – IC04 / IC05 , starting

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### Function Group

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Function Group

30 general, complete vehicle software

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### Customer effect

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Main customer effect

calibration/programming/pairing/missing operation , stop/start

Lights/Messages on information display

Tell-tales and Icons

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### Fault code(s)

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US10 Fault Codes

SPN 1081 FMI 31

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### Conditions

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Vehicle operating mode

on start-up

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### Administration

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Author

UT03527

Dealer ID

UT03527

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