



Service Bulletin

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Oil Pressure Switch Installation

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This Service Bulletin provides instructions to install oil pressure switch, Part Number 4076930. The oil pressure switch and oil pressure switch electrical cable kit will update the oil pressure sensor to an oil pressure switch on ISB, QSB5.9, ISC, QSC8.3, ISL, and, QSL9 engines.

Note : This Service Bulletin does **not** apply to ISB engines installed in Dodge truck applications. Dodge trucks (model year 2001) and earlier will continue to use a pressure sensor.

Note : Recalibration of the ECM could possibly be required with this procedure. ECMs which have the original production calibration code installed will need to be recalibrated. ECMs which have a calibration code installed that came from a May 2002 INCAL™ Calibration CD-ROM, or later, will **not** require recalibration. If a persistent Fault Code 141 exists, after the pressure switch installation, the ECM **must** be recalibrated.

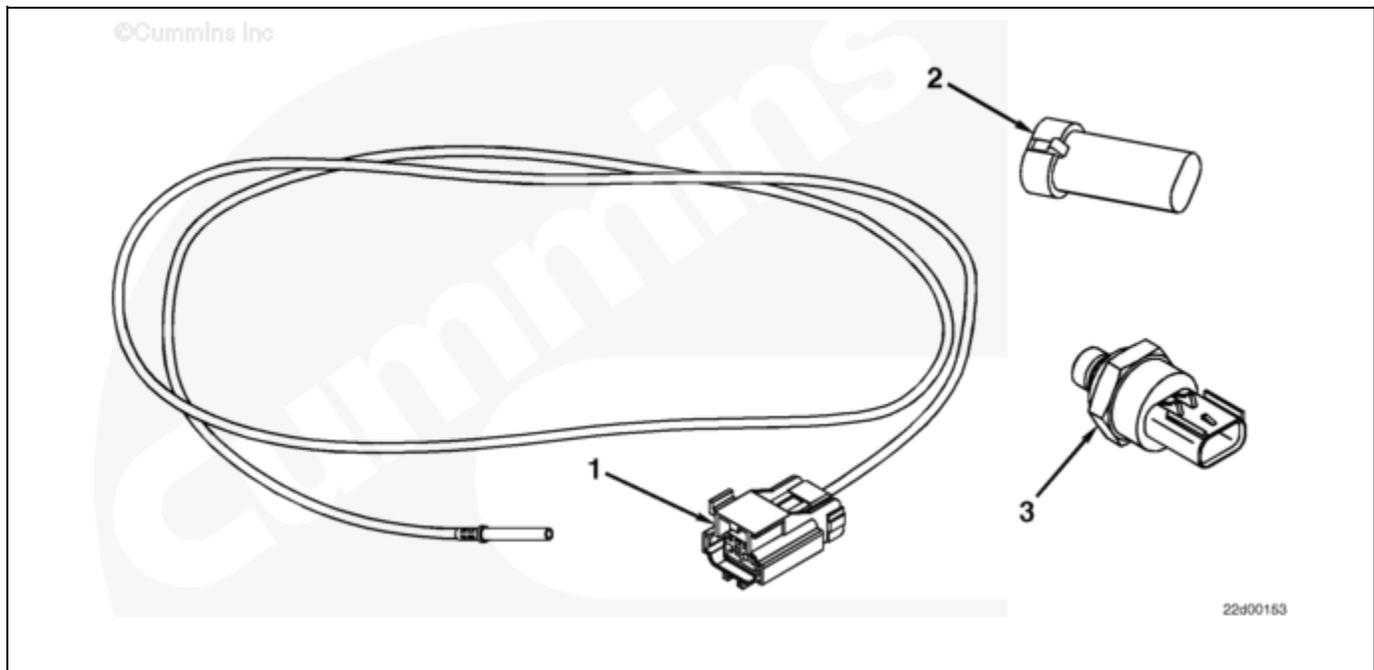


Table 1, Oil Pressure Switch Electrical Cable Kit (Deutsch OEM Connector), Part Number 3164755

Item Number	Part Number	Description	Quantity
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Item Number	Part Number	Description	Quantity
1	3164754	Oil pressure switch electrical cable	1
2	3613537	Protective cover	1

Table 2, Oil Pressure Switch Electrical Cable Kit (Ford OEM Connector), Part Number 3164757

Item Number	Part Number	Description	Quantity
Notshown	3164756	Oil pressure switch electrical cable	1
2	3613537	Protective cover	1

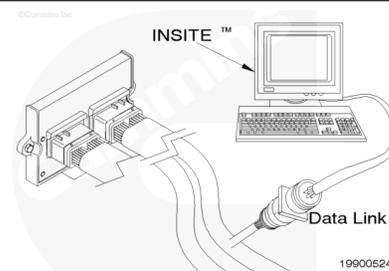
Table 3, Items Used with Oil Pressure Switch Electrical Cable Kit, Purchased Separately

Item Number	Part Number	Description	Quantity
3	4076930	Oil pressure switch	1

ECM Calibration General Information

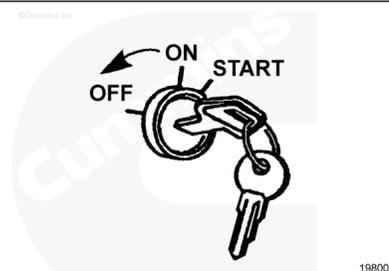
Electronic control module (ECM) calibrations can be performed by INSITE™ electronic service tool.

Note : Not all engines will require recalibration, please see the second note at the beginning of this publication.



The ECM calibration process for ISB/QSB5.9, ISC/QSC8.3, and ISL/QSL9 engines occurs with the keyswitch in the ON position most of the time. **Always** follow the instructions on the electronic service tool screens.

Note : If the tool will **not** communicate with the keyswitch in the ON position, turn the keyswitch to the OFF position, and try again.



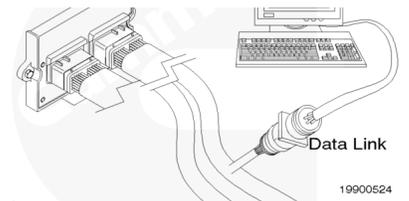
Connect the electronic service tool to the service tool



datalink, which is located on the engine or in the cab.

Refer to the INSITE™ electronic service tool user's manual for detailed ECM calibration instructions.

Perform calibration download.

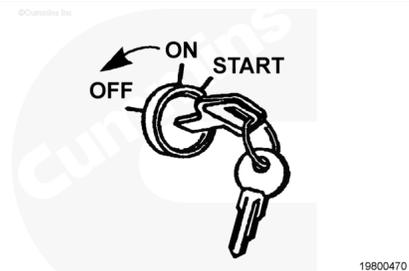


After the calibration download is complete, perform the following:

Turn keyswitch OFF for 30 seconds.

Turn keyswitch back ON for 10 seconds.

Turn keyswitch back OFF.

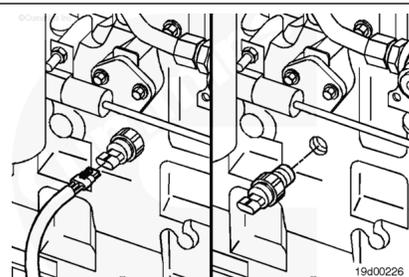


Lubrication Oil Pressure Switch Removal

Disconnect the harness from the sensor.

Remove the sensor from the engine.

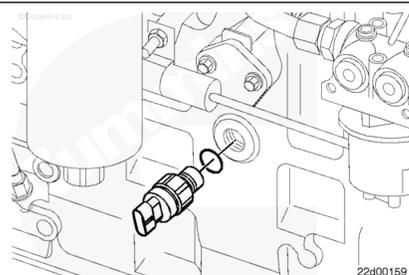
Discard the old sensor in accordance with local environmental regulations.



Torque Value: 11 n•m [97 in-lb]

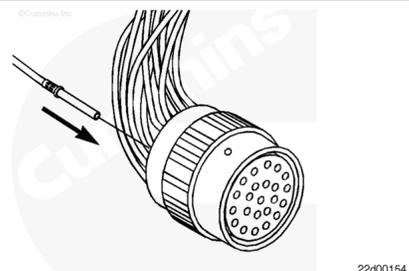
Lubrication Oil Pressure Switch Installation

Check to make certain that the switch has an o-ring. Install the switch, Part Number 4076930.



Insert the oil pressure switch electrical cable contact into cavity K of the 23-pin Deutsch OEM connector on the OEM harness until it snaps into the connector.

Note : Deutsch OEM connector application, use oil pressure switch electrical cable kit, Part Number 3164755



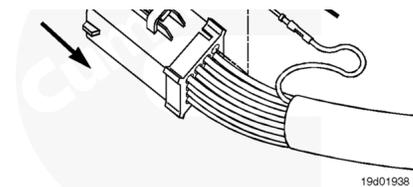
Remove the locking wedge from the OEM connector on the OEM harness.



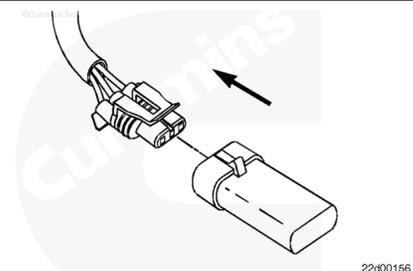
Insert the oil pressure switch electrical cable contact into cavity 8 until it snaps into the connector.

Install the locking wedge in the connector.

Note : Ford OEM connector application, use oil pressure switch electrical cable kit, Part Number 3164757

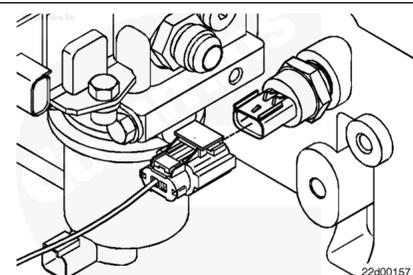


Install the protective cover, Part Number 3613537, on the oil pressure sensor harness connector.



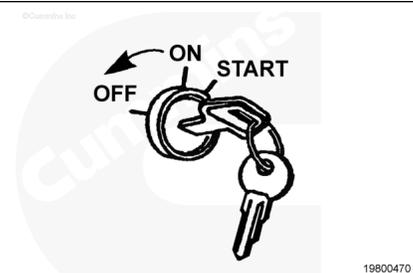
Connect the oil pressure switch electrical cable to the oil pressure switch and push the red locking tab into place.

Secure the oil pressure sensor connector and the oil pressure switch harness to the engine wiring harness.

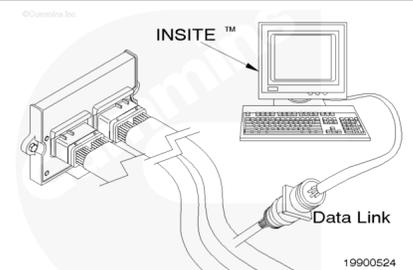


Turn the keyswitch ON for 10 seconds.

Turn keyswitch OFF for 30 seconds, then ON and start engine.



With the engine running, monitor the engine oil pressure in INSITE™ electronic service tool. If correctly installed, INSITE™ electronic service tool will show 397 kPa [55 psi] plus or minus 7kPa [1 psi].



Document History

Date	Details
02-feb-2015	Converting service bulletin file type
2015-3-6	none

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