



Technical Service Bulletin

Technical Service Bulletin: TSB180089	Released Date: 11-Jul-2018
Campaign # 3315 - Low Coolant Level (LCL) Sensor Service Kit for C150 D2Re, C200 D2Re and C275 D2Re	

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Warranty Statement

The information in this document authorizes specific changes to the repair practice for failures covered under product warranty coverages.

Contents

Product Affected

- C150 D2Re
- C200 D2Re
- C275 D2Re

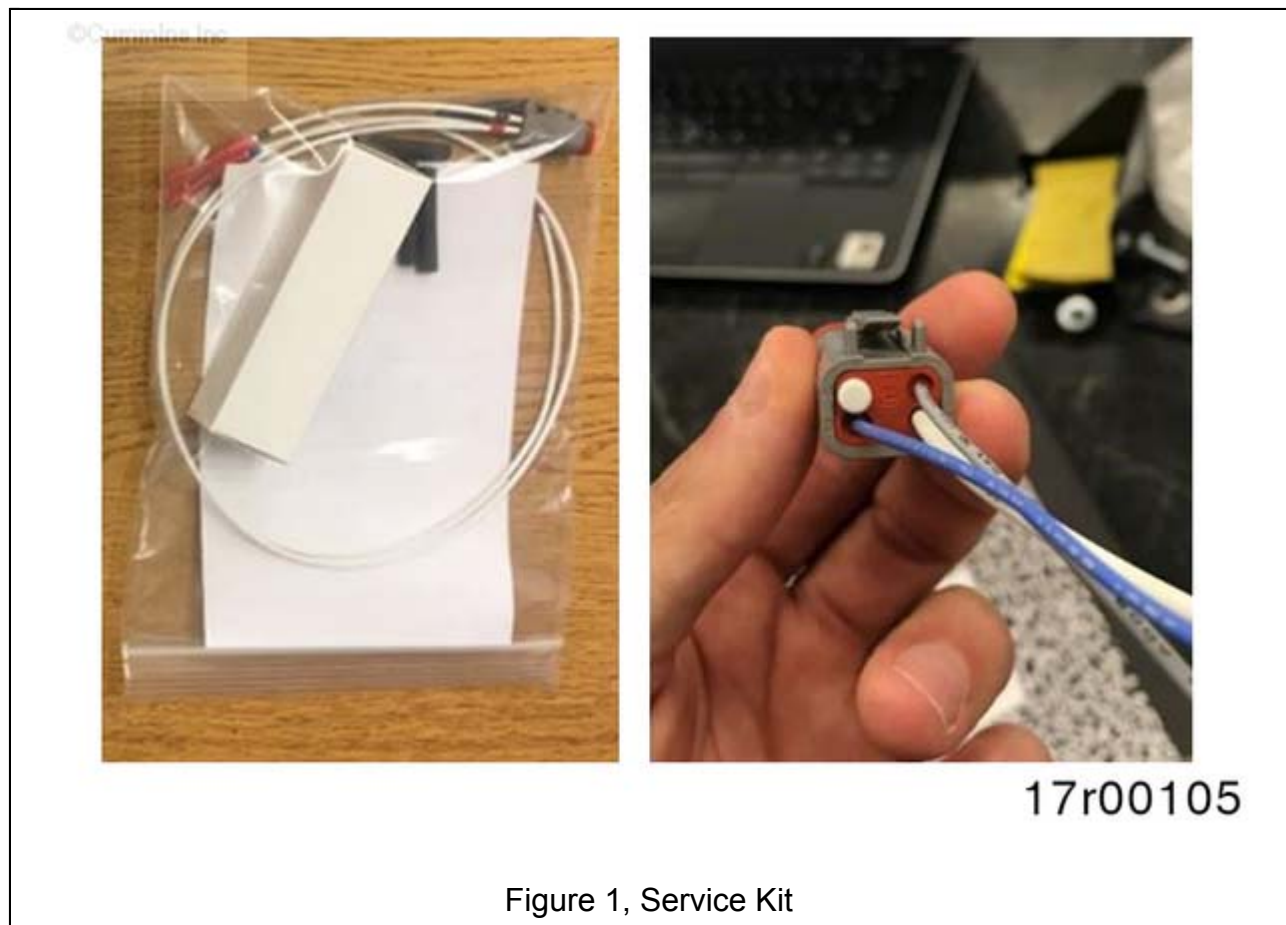
Issue

This TSB is a campaign to replace and repair the old LCL sensor P/N A042N875 with the new re-design LCL sensor P/N A059E699 and service kit for C150 D2Re/C200 D2Re A059R884, C275 D2Re A059R959 by all authorized technicians.

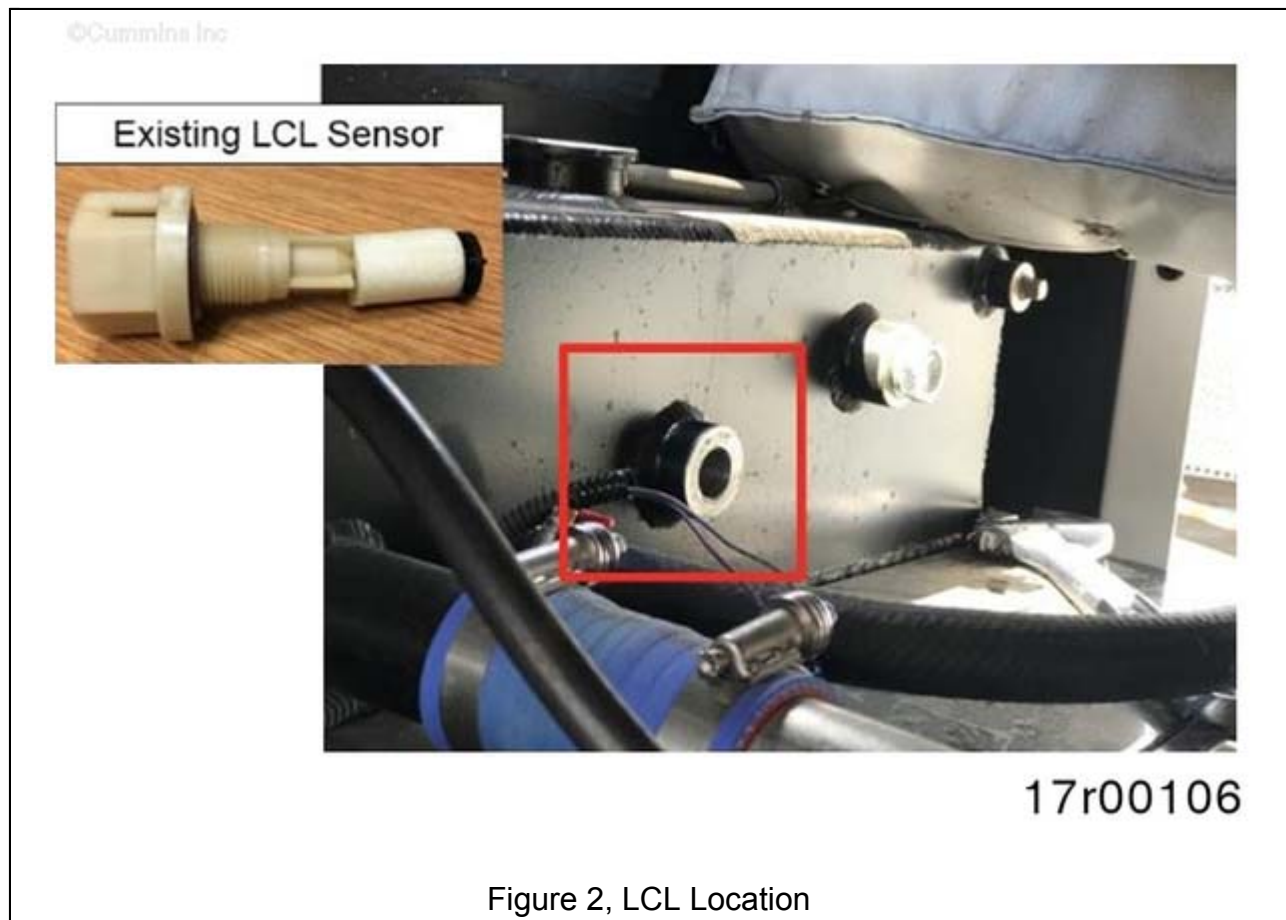
Resolution

Service tools required for this repair:

- Adjustable wrench
- Torque wrench
- Wire cutters
- Crimping tools
- Heat gun
- Zip tie



1. Order Service Kit A059R884 for C150 D2Re/C200 D2Re and A059R959 for C275 D2Re through MDC.



2. Drain system so coolant level is below the LCL sensor and remove existing LCL Sensor from the radiator surge tank bung.



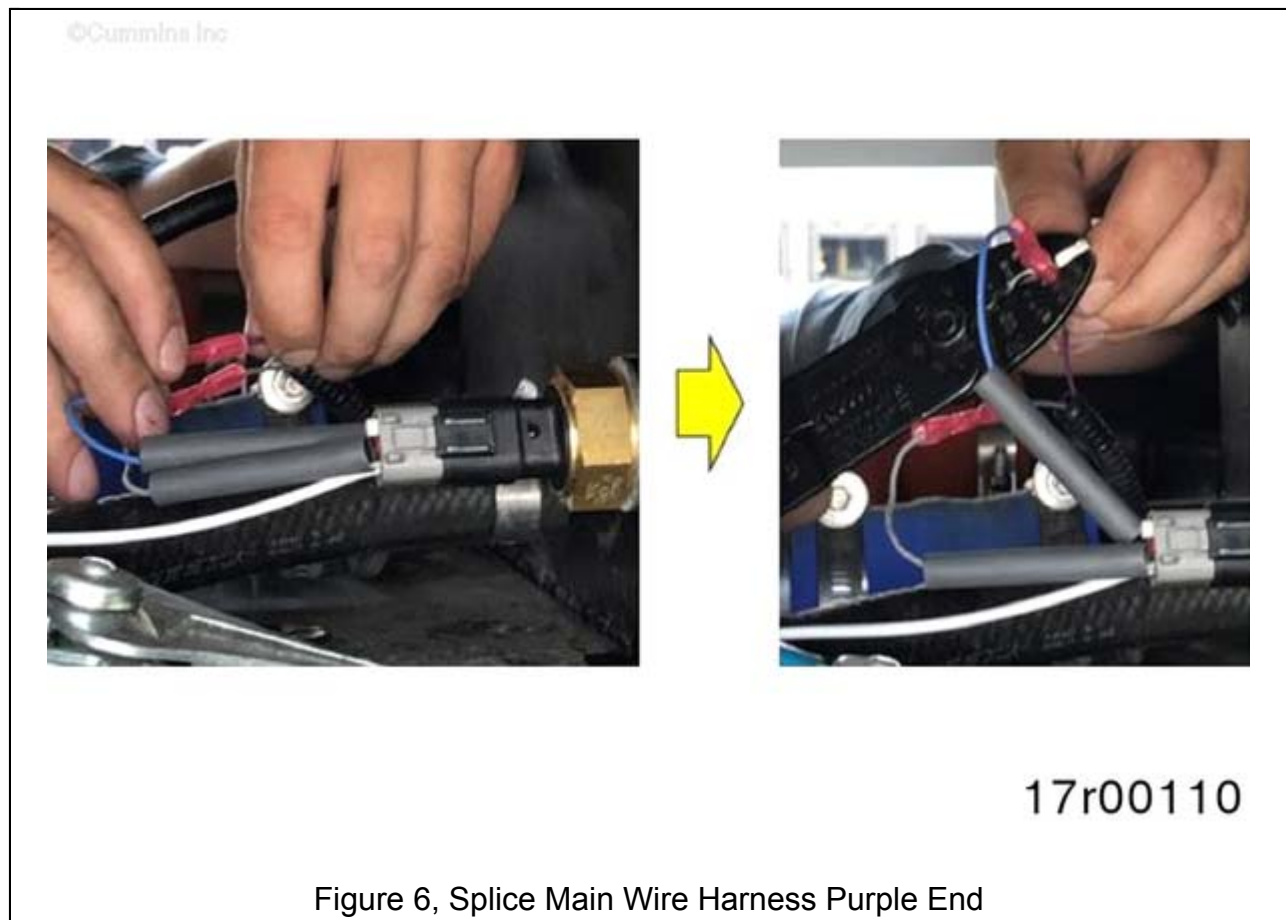
3. Insert new LCL Sensor and torque to 14-20 Nm.



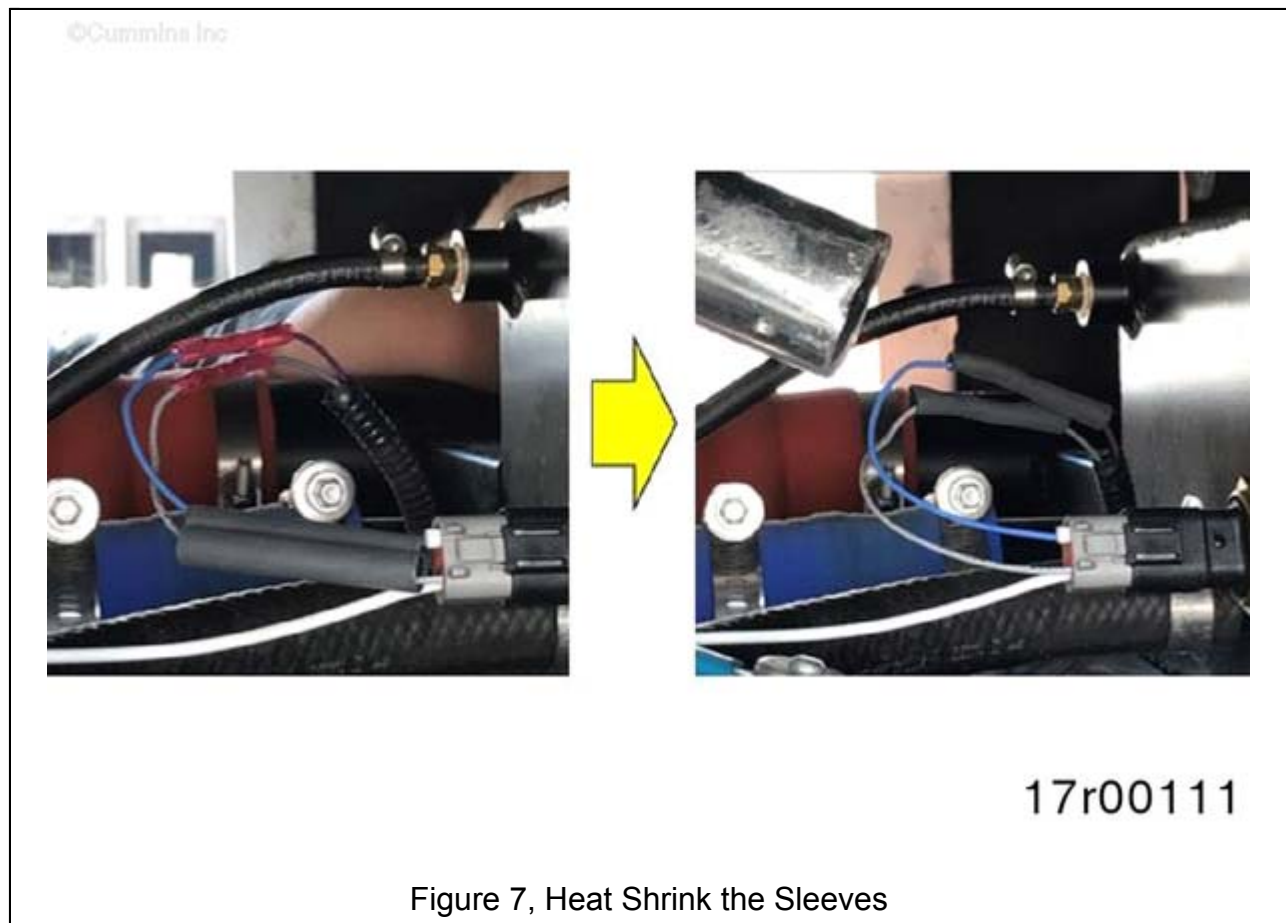
4. Cut Deutch connector roughly 3-5 inches from old plug on main wire harness and insert new kit Deutch connector into new LCL Sensor.



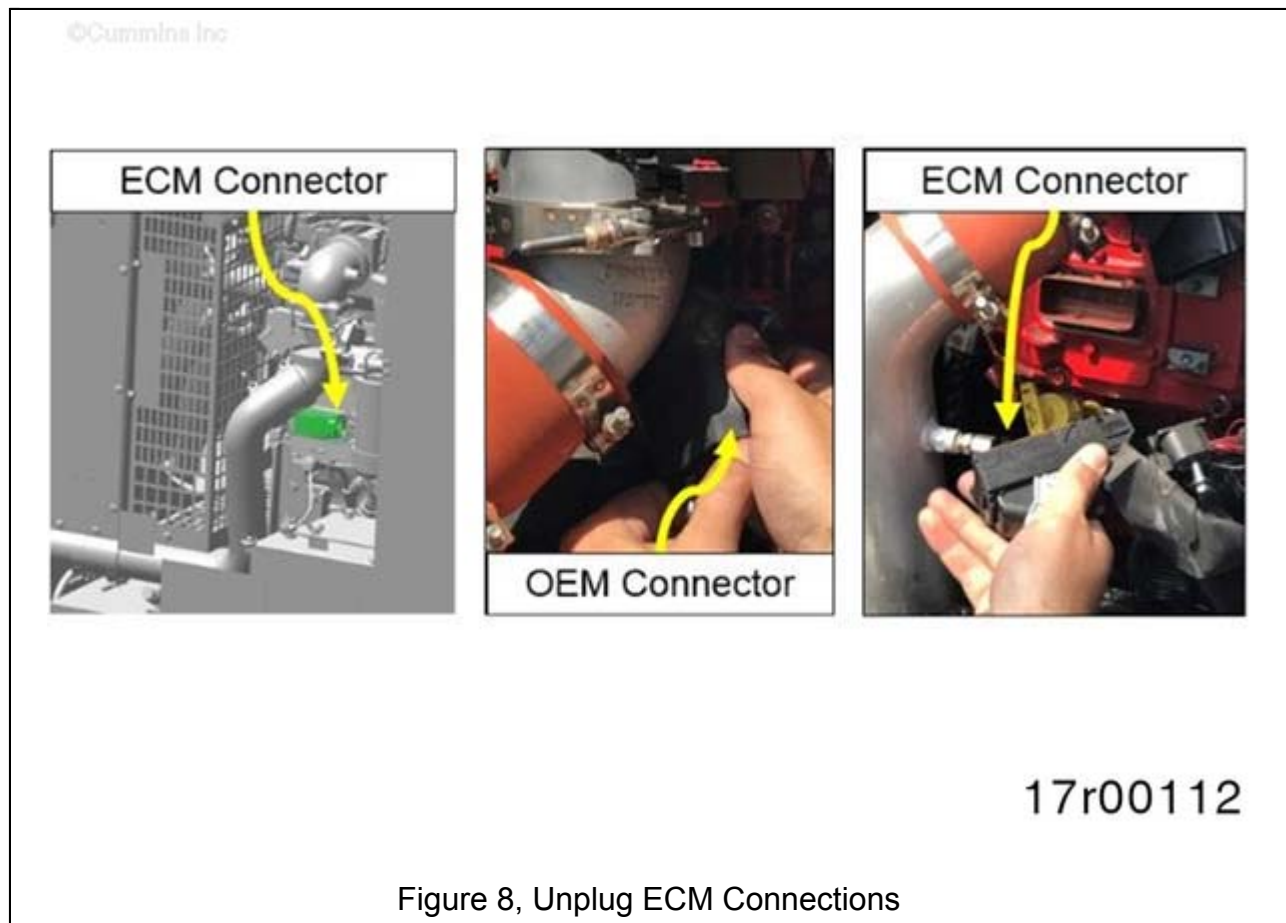
5. Splice main wire harness grey end, insert heat shrink and insert into red splice from sensor so the two grey wires are connected, secure splice (see Figure 19 below).



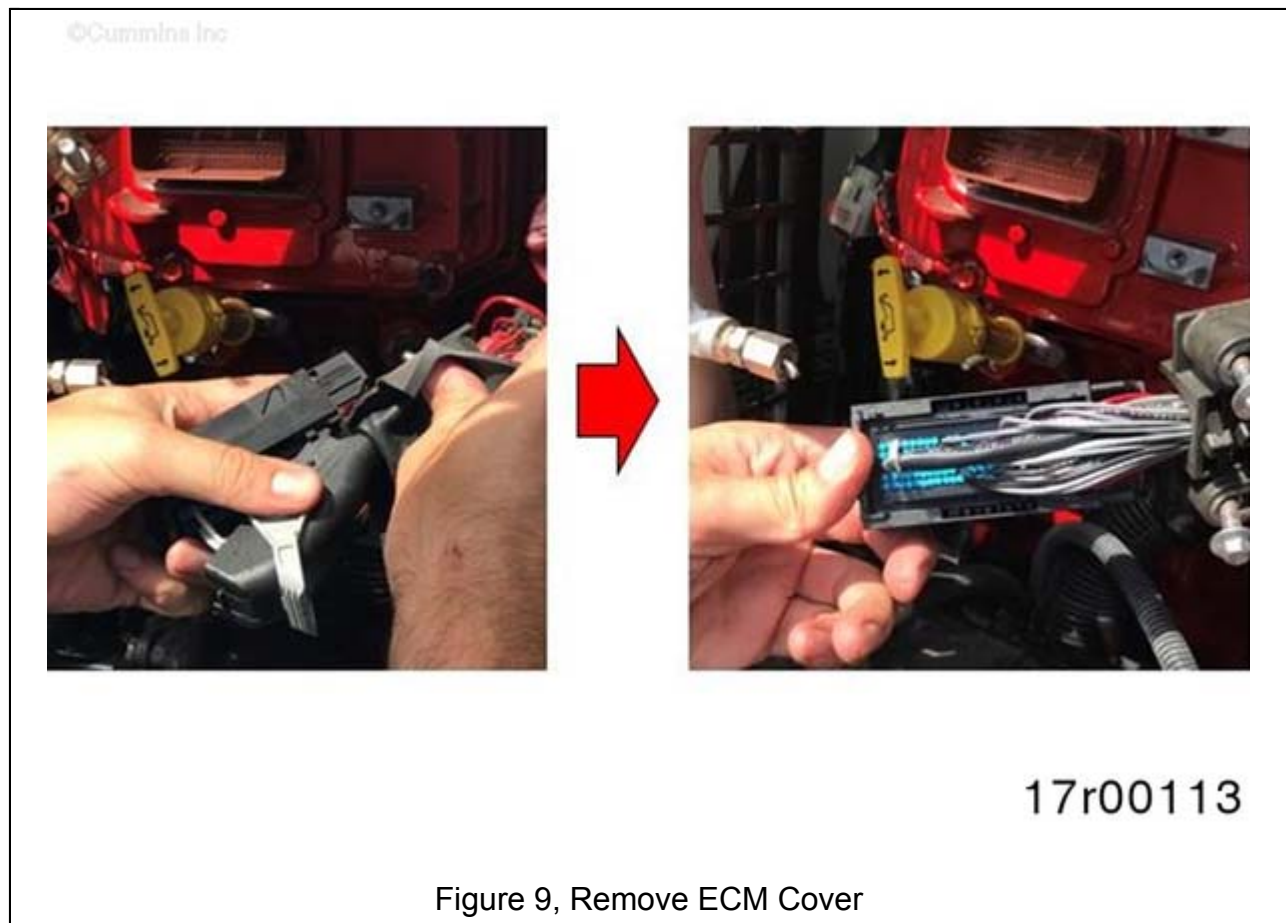
6. Splice main wire harness purple end, insert heat shrink and insert into red splice from sensor so the blue wires are connected, secure splice (see Figure 19 below).



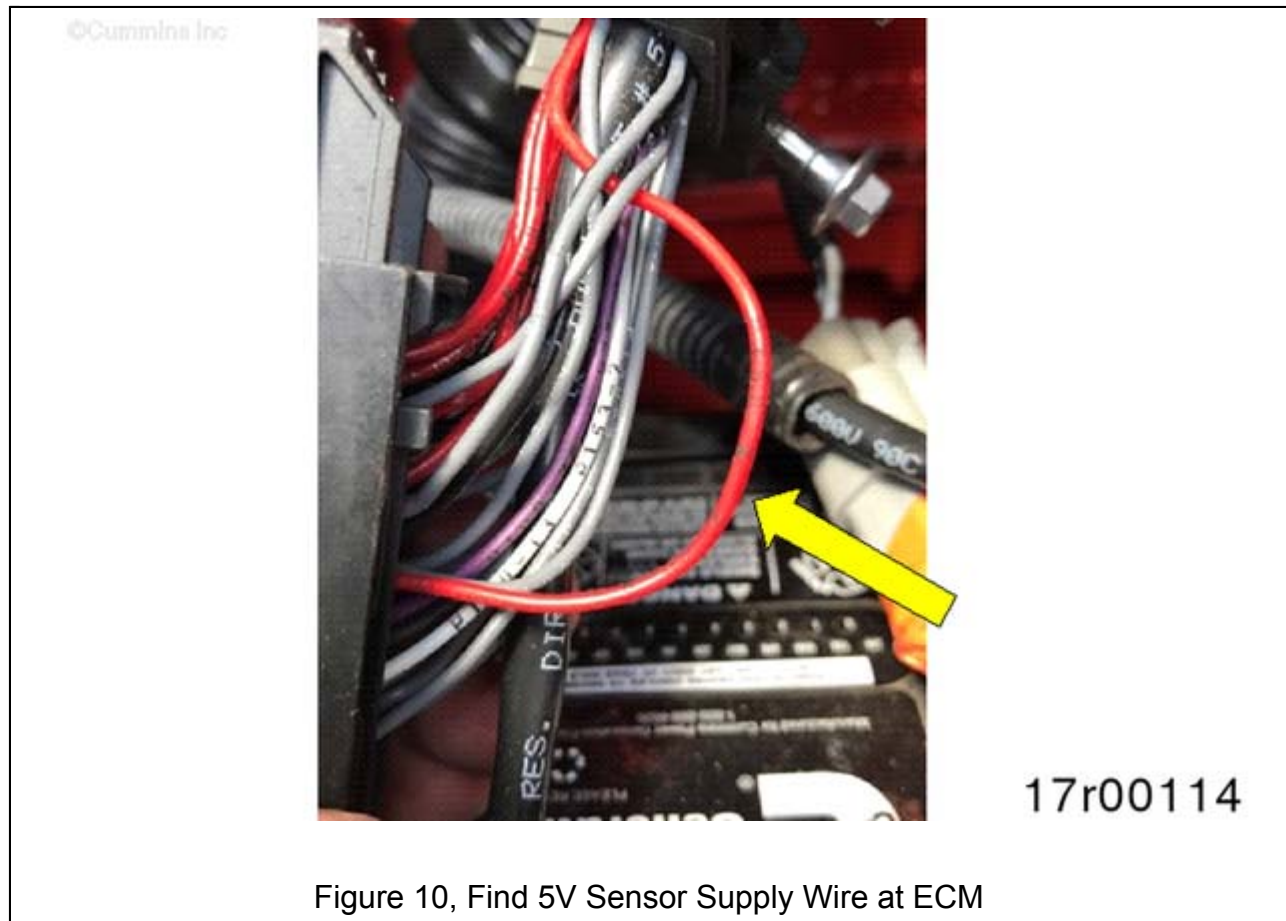
7. Use heat gun to shrink down heat shrinks and cover them.



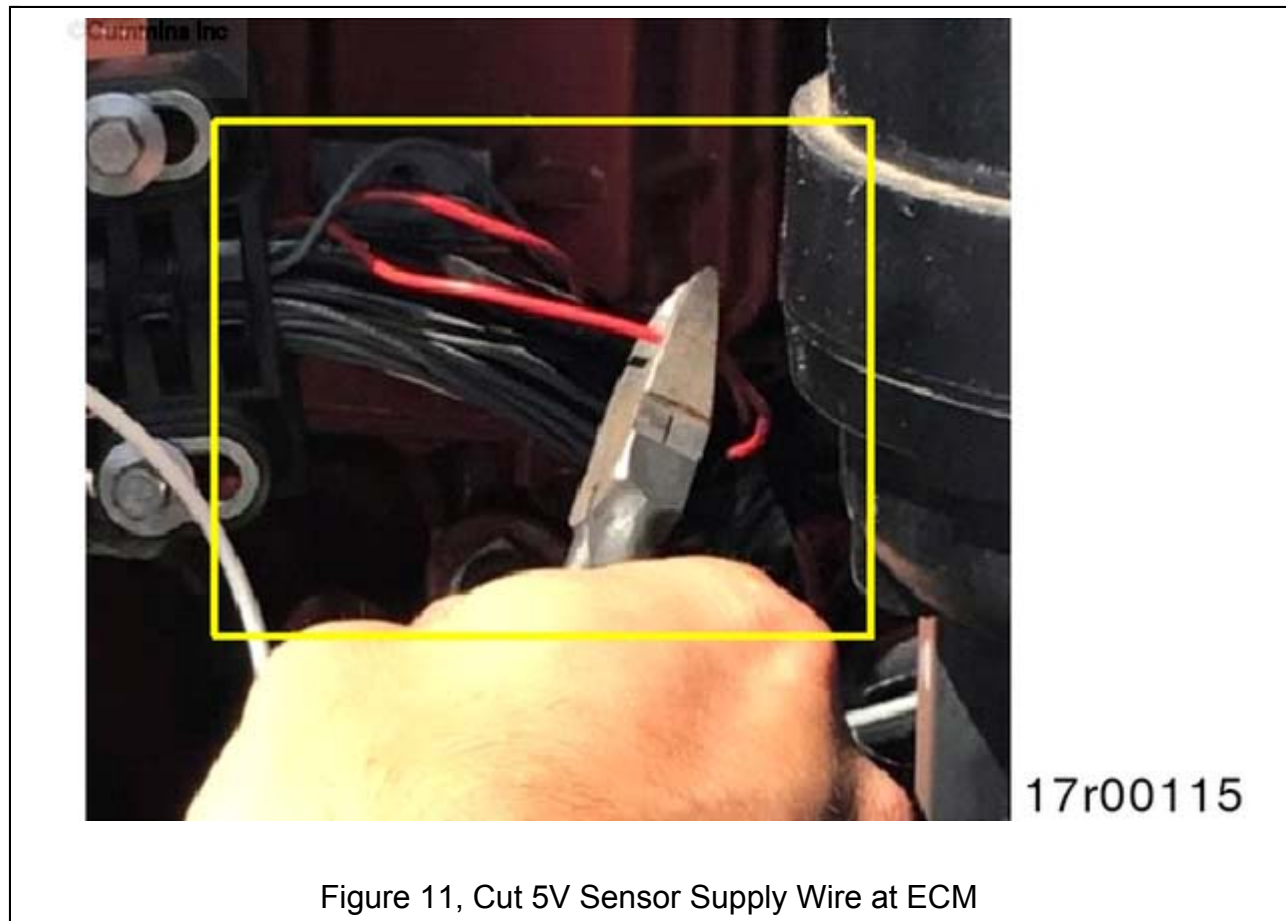
8. Move to the ECM connector side of the generator set, unplug OEM connector (for access) and unplug ECM connector.



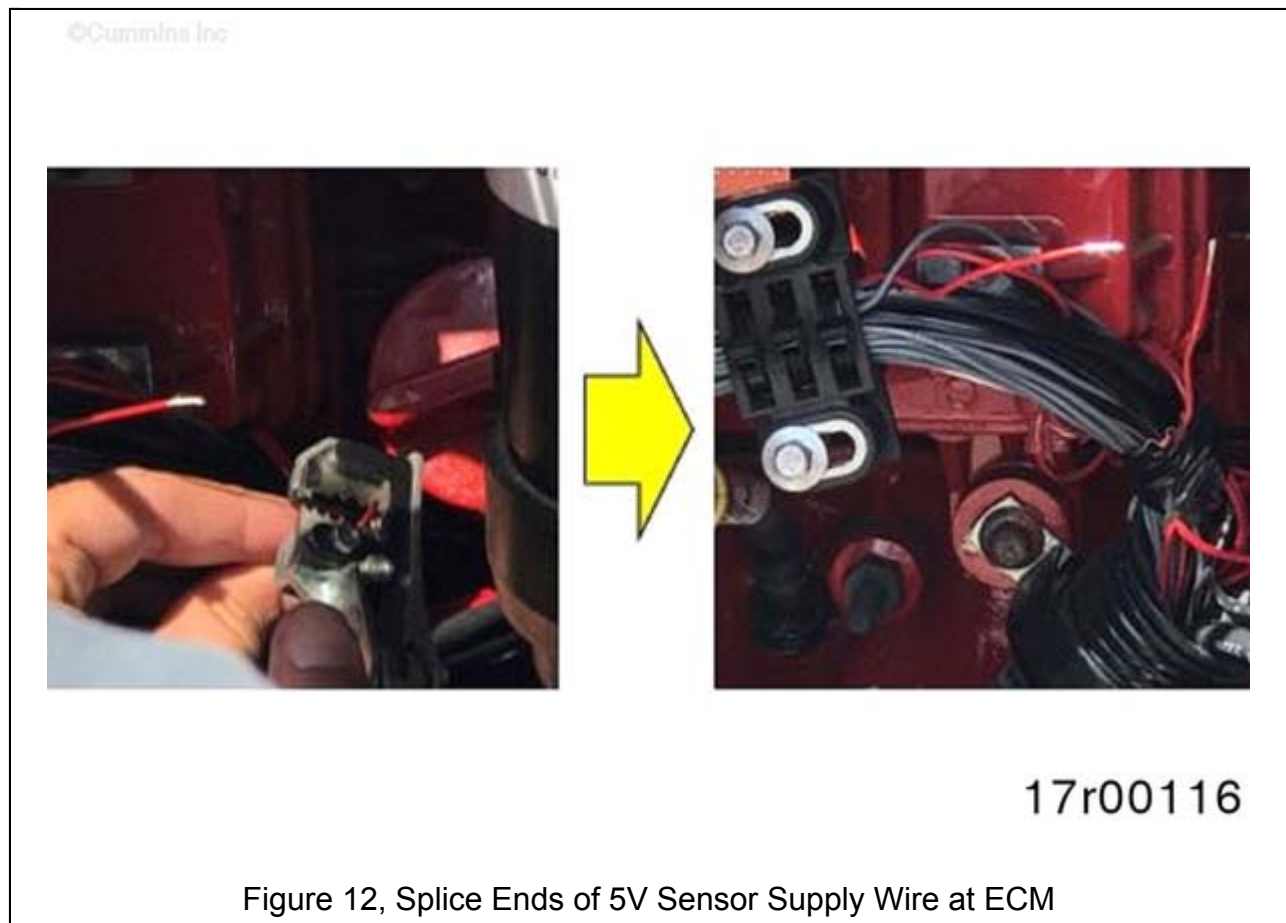
9. Remove ECM Cover.



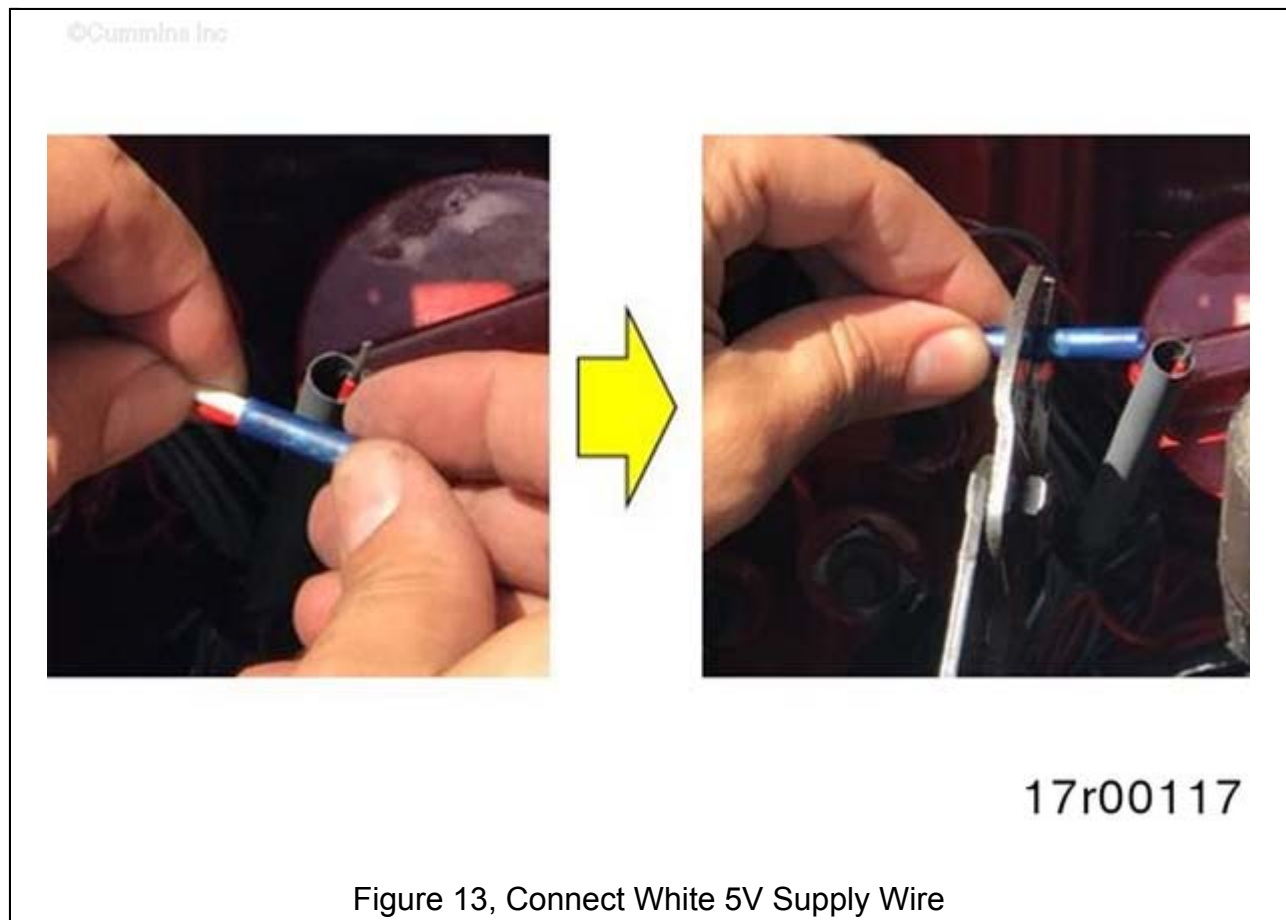
10. Find 5V Sensor Supply wire at ECM (Number 8) – See Figure 19.



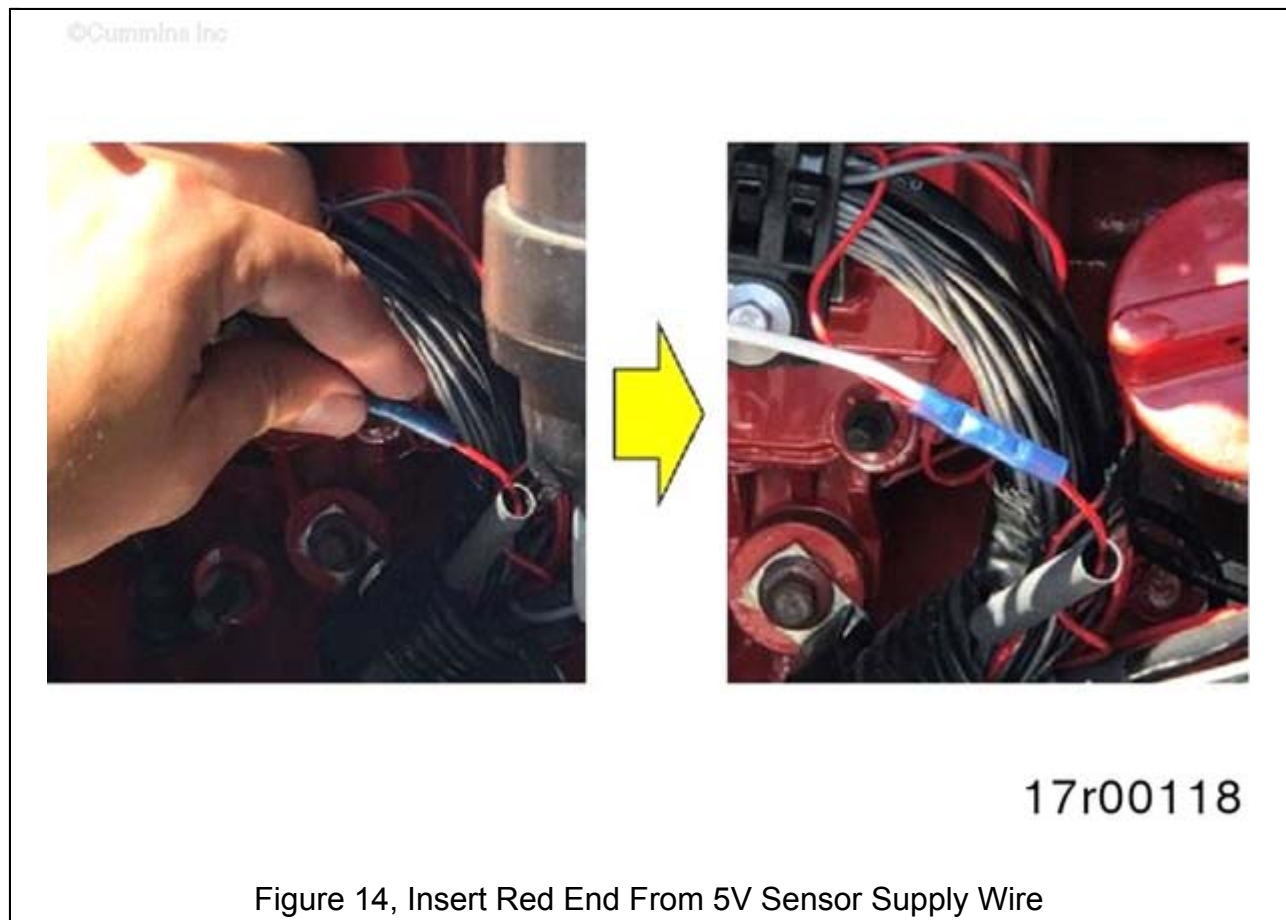
11. Cut 5V Sensor Supply wire at ECM (Number 8).



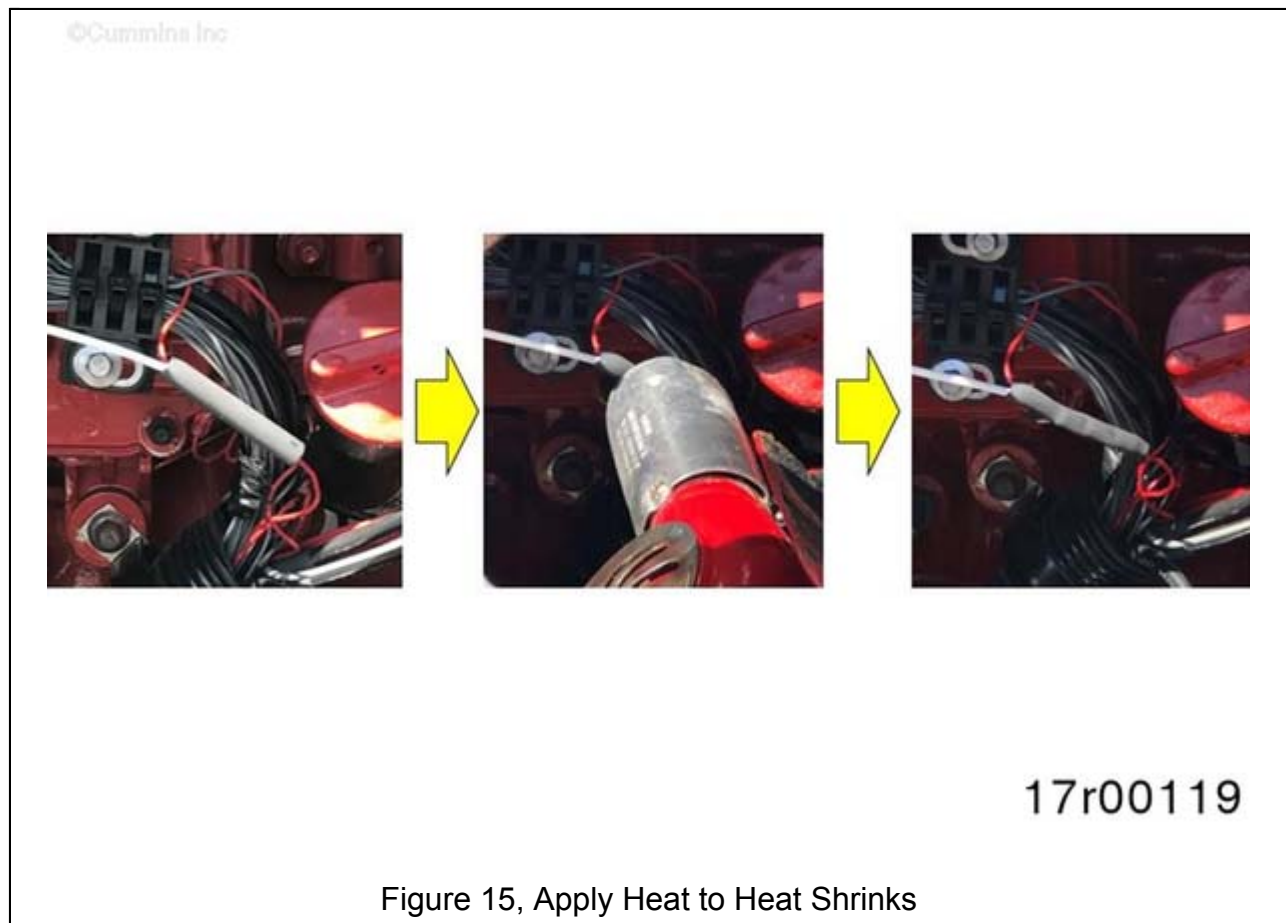
12. Splice ends of 5V Sensor Supply wire at ECM (Number 8) and insert heat shrinks.



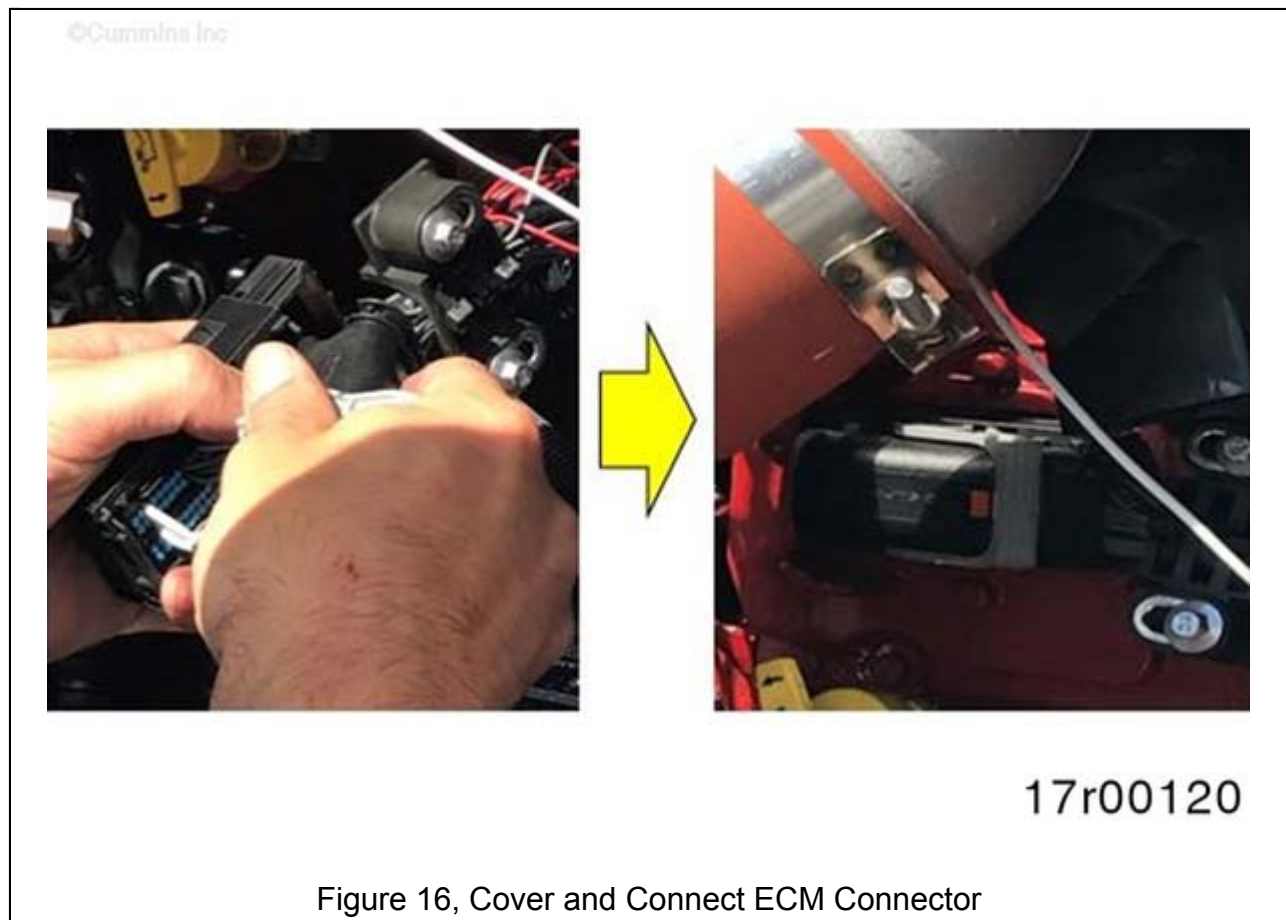
13. Connect white 5v supply wire (from sensor) to one end of the red 5v Sensor Supply wire at ECM (Number 8) using blue splice and secure.



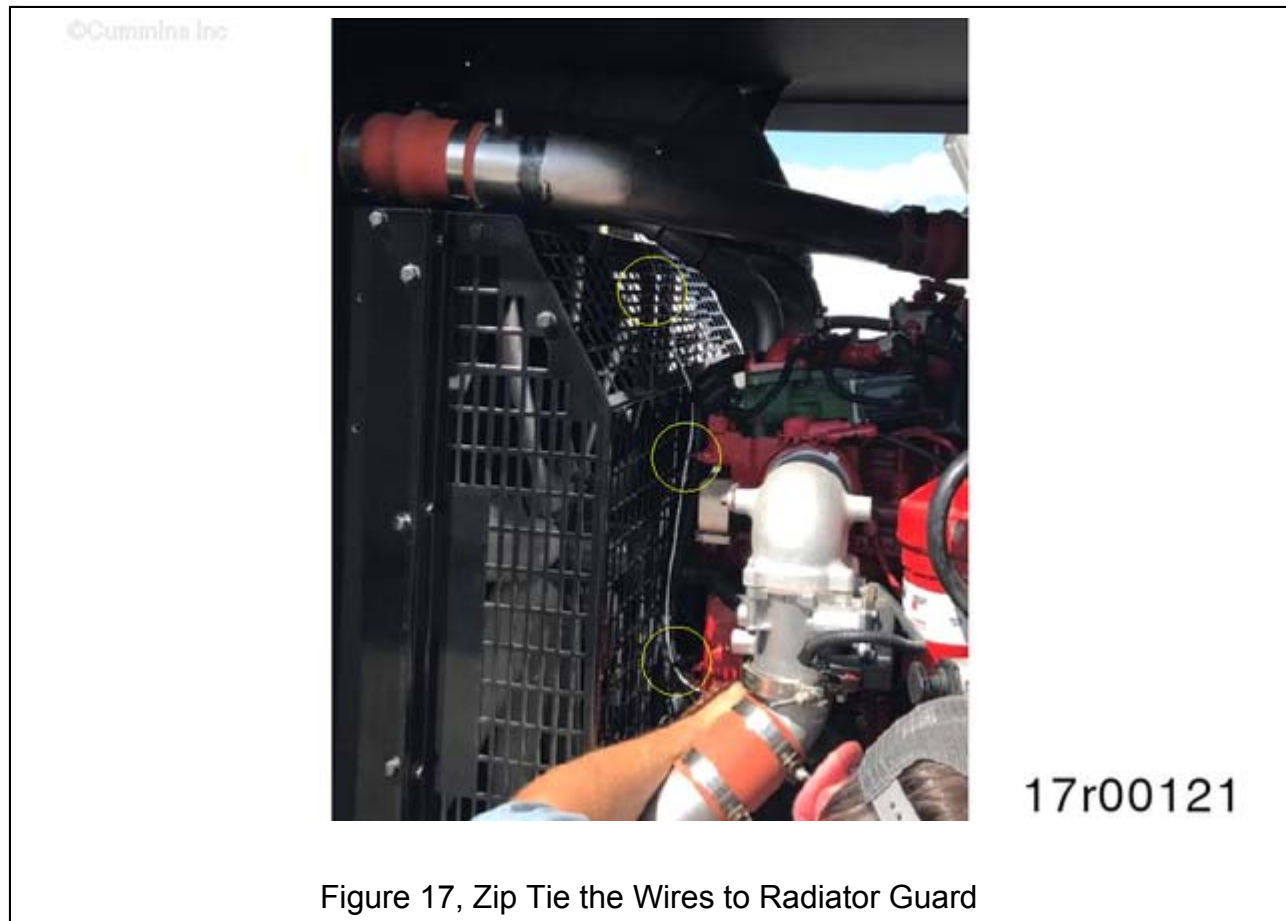
14. Insert remaining red end from 5V Sensor Supply wire at ECM (pin number 8 - see pin location in Figure 18) to the blue splice and secure.



15. Apply heat to heat shrinks (usually with a heat gun).

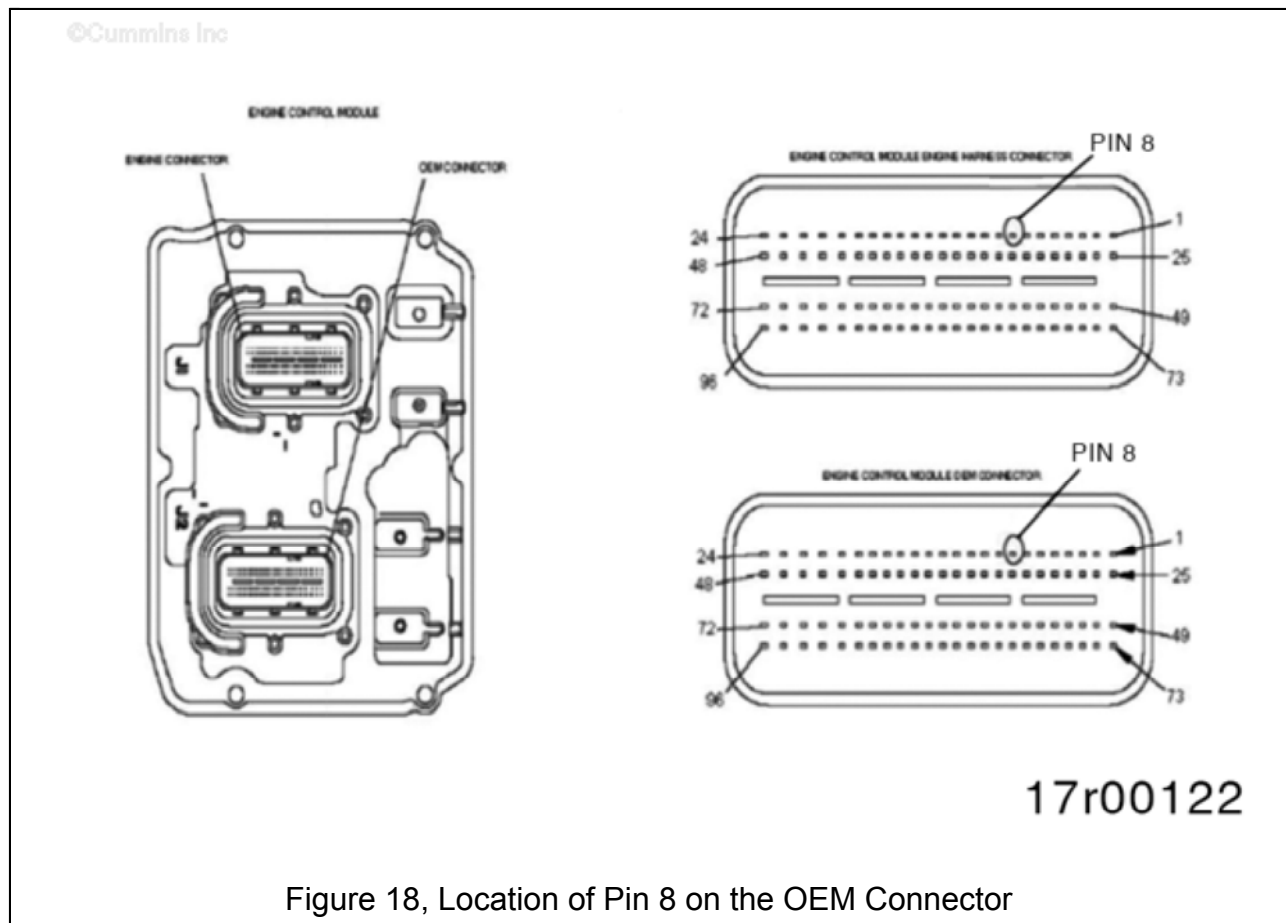


16. Cover ECM connector and plug it back to the engine, also make sure to connect the OEM plug back to its original place.



17. Use zip ties along radiator fan guard to secure the white wires (5V Supply) from touching any hot areas on the engine.

18. Fill cooling system with coolant.



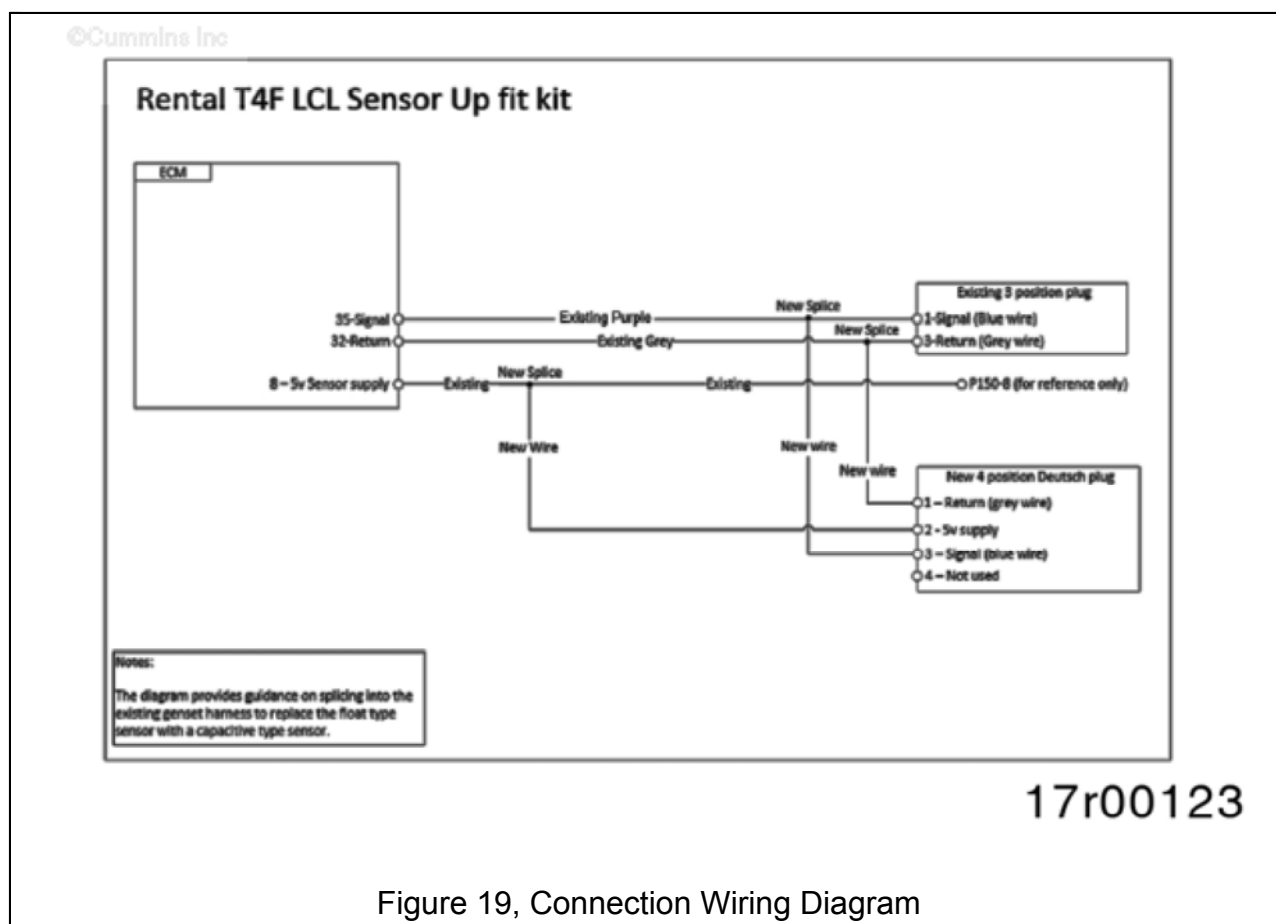


Figure 19, Connection Wiring Diagram

Service Instruction

Fail Code = OC-TL-OC

Account code: 65

Authorization code: 3175

1 trip allowed

SRTs:

00-602 Administrative Time: 0.7

99-9999 Remove old sensor and installed Repair kit: 1

Fail part: scrapped

Parts:

- A059R884
- A059R959

Service Parts Availability

The old LCL sensor will be replaced by the new LCL sensor. The old sensor will be removed from the service manual and parts manual and replaced with the new LCL sensor and service kit. Instructions are located in QSOL literature search.

Service Tools and Training Available

Table 1, Service Parts				
Part Description	Existing Part Number	Obsolete	Superseded	New Part Number
Low Coolant Level Sensor	P/N A042N875	No	yes	P/N A059E699
Service Kit for C150 D2Re, C200 D2Re	N/A	N/A	N/A	A059R884
Service kit for C275 D2Re	N/A	N/A	N/A	A059R959

Implemented for production. See Table 2.

Table 2, Production Information			
GSN	Model	Dates	Location
F180373303	R200T4	June 18,2018	Fridley
F180374289	R150T4	June 18,2018	Fridley
F180374464	R275T4	June 18,2018	Fridley

Part Identification

Table 3, C150/C200 D2Re kit A059R884 Contents				
F/N	Name	Description	Legacy Name	Qty
1	A059E699	SENSOR,COOLANT LEVEL	A059E699	1
2	A006L207	CONNECTOR ,BUTT	0332-3946-02	1
3	A059R975	SLEEVE,HEAT SHRINK	A059R975	3

Table 3, C150/C200 D2Re kit A059R884 Contents

4	A059T273	HARNESS,WI RING	A059T273	1
5	A059R886	SHEET,INSTR UCTION	A059R886	1

Table 4, C275 D2Re kit A059R959 Contents

F/N	Name	Description	Legacy Name	Qty
1	A059E699	SENSOR,CO OLANT LEVEL	A059E699	1
2	A006L207	CONNECTOR ,BUTT	0332-3946-02	1
3	A059R975	SLEEVE,HEA T SHRINK	A059R975	3
4	A059T274	HARNESS,WI RING	A059T274	1
5	A059R886	SHEET,INSTR UCTION	A059R886	1

Affected Generator Set Serial Numbers**Table 4, Affected Generator Set Serial Numbers**

K14076508 9	D16094718 0	A16089006 4	D17018226 0	C17015865 8	L15090554 7
A18031071 9	H17023787 7	A16091565 5	E17018226 1	D16095006 2	B15079073 0
A18030721 3	H17023787 8	A16091663 4	D17017687 2	D16095058 4	B15079932 0
A18030722 4	H17023787 9	A16091565 3	D17017740 7	D16095058 5	K17027933 6
A18030715 7	H17023788 0	A16091560 0	D17017685 1	D16095006 3	K15089285 4

Table 4, Affected Generator Set Serial Numbers					
B18032744 7	F17020294 0	A16091565 4	D17018225 9	G16097864 4	K15089285 5
H17022244 6	F17020056 5	K15088882 8	D17017221 2	F16097319 7	K15089285 2
H17022244 5	D17017647 1	K15088954 0	D17017684 2	F16096997 0	K15089285 3
G17022243 5	F18037428 9	K15088954 1	D17017684 3	F16097089 5	J17025909 7
G17022072 4	F18037251 7	H15086029 0	C17016897 4	G16097319 9	C18032730 9
G17022190 3	F18037330 4	H15086029 2	C17016877 8	G16097739 4	A18030665 5
G17021770 2	F18037094 0	H15085956 6	D17017108 3	G16097739 5	L17029241 0
G17021784 9	D18035395 4	H15086321 7	G17021443 0	E16096372 9	I170245700
G17020734 3	E18036614 7	H15086321 6	G17021524 5	F16096373 2	B17015664 3
B17015434 4	E18036431 6	H15085956 2	L14077524 7	F16096934 3	B17015664 4
A17013782 4	E18036614 8	H15085956 1	A15078347 9	G16097739 3	A17014011 8
A17014777 7	E18036030 8	H15085956 4	H14073264 0	D16094994 9	A18031104 7
A17014011 9	E18036071 8	E18036894 4	A15078346 5	E16096058 7	I150876108
A17014244 8	D18035430 6	A18029848 1	A15078347 1	E16096058 8	E16096326 8
J16011563 8	E18035812 1	A18029848 0	H14073264 0	E16095668 1	E16096361 3
J16010000 8	E18035812 2	G17021144 7	H14072331 6	E16095760 2	E18036826 1
J16011087 5	E18035832 2	A17013782 3	H14073407 7	E16095966 2	E18036976 1

Table 4, Affected Generator Set Serial Numbers					
H16099314 8	E18035732 7	L16012868 5	H14073264 2	E16095965 7	E18036826 2
C16092105 5	E18035812 0	A17014404 5	H14073189 1	E16095966 3	E18036976 2
C16092105 6	D18035383 4	A17014404 7	H14072333 6	D16094051 4	E18036115 3
H15085956 5	D18035471 3	A17014404 8	H14073263 9	L15090630 8	E18036614 6
H15086369 8	D18035359 2	A17014404 6	E18036648 1	J15088837 8	E18036011 4
D15082169 4	D18035383 3	A16089006 5	F18037614 8	J15088837 9	E18036034 3
D15082169 3	D18035149 5	A16089006 2	E18036660 7	F15084280 7	E18036115 2
B15079534 7	C18034590 2	A16089006 3	F18036972 7	B15079720 3	E18036652 6
A18029848 2	C18034565 5	B17015213 6	F18036972 8	L14077498 0	D18035359 4
A18029866 3	C18033969 2	D18034869 2	F18037093 9	L14077518 5	D18035764 8
A18029866 5	C18034522 4	D18034827 6	F18037316 6	K14077172 7	E18035771 9
G17021443 1	C18033601 9	J16011087 6	F18037330 3	K14077172 8	D18035285 8
G17021443 2	C18033613 1	J16011563 7	E18036366 9	L14076993 0	D18034793 2
D17018096 5	C18033636 5	H16098185 7	E18036614 5	L14077518 2	D18034827 9
D17018096 6	C18033891 2	G17022072 5	E18036125 3	L14077518 3	D18034886 1
C17016893 8	C18032832 2	G17022072 7	E18036652 8	L14077518 4	D18035094 3
C17015865 7	C18033386 4	H17023256 9	E18035996 3	L14077518 6	D18034869 1

Table 4, Affected Generator Set Serial Numbers					
B17015141 4	C18033546 8	G17021788 4	E18036030 9	L14077524 7	D18034899 8
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A17014146 9	C18032844 3	B17015141 2	E18036116 6	H16098084 7	C18034229 4
A17014404 4	C18033190 4	B17015213 3	D18035165 2	H16098084 8	D18034610 5
J16010593 7	B18032176 8	E16096074 7	D18035346 3	H16098084 9	C18033939 4
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D15082169 5	C17016894 0	B16091964 0	B18031979 1	J17025909 8	C18033969 1
A16090555 1	F17020294 6	K15088954 4	C18034590 1	G17021442 9	C18033798 2
E18035788 1	D17018500 9	K15088954 3	D18034598 3	A17014777 6	C18033156 2
H16095925 4	B17015721 6	K15089005 9	D18034827 8	B17014968 0	C18033190 3
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H16099215 9	C17016893 7	K15089006 0	D18034886 0	I160100193	K17027355 4
A18029847 7	C17016897 2	J15088505 5	D18034827 5	A17014011 5	G17021524 4
A18030126 8	B17015141 3	J15088430 1	C18033975 3	A17014011 7	B17015926 1
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Table 4, Affected Generator Set Serial Numbers					
D16094509 8	B17015549 6	A18030044 3	B18032177 0	I160999378	B17015434 3
C16091772 6	B17015715 0	A18030125 0	C18034240 4	I160100006	B17015714 9
B16091964 1	B17015715 1	A18030120 9	B18032176 7	G16097452 8	A17014967 8
K15089006 1	H16098785 5	A17014012 0	C18033680 5	G16097687 7	B17014967 9
K14076377 8	H16098785 5	H16099215 7	C18033622 0	G16097687 8	B17015381 0
A17013461 9	H16098895 5	K14077102 7	C18033636 6	G16097687 6	B17015381 1
H17023565 7	H16098785 4	H15086028 9	C18033680 4	E16095552 5	B17015434 5
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A18030721 1	G16097320 0	B17015721 4	B18032176 9	A16090916 3	A17014012 1
L17029242 1	F16097319 6	L17029242 2	C18033251 9	A16090916 4	A17014665 4
H17022244 7	F16096996 9	H16098944 7	C18033602 0	A16090915 9	A17014665 5
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H17023256 8	E16096372 8	L15090554 9	C18033190 6	A16090916 2	H16098571 0
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Table 4, Affected Generator Set Serial Numbers					
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G16097688 2	A18030721 2	L17026586 5	B18031817 2	A17014244 9	G16097742 4
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B18032238 3	K15089173 0	L17026586 8	B18031690 1	H15086207 2	G16097742 6
J17025764 4	A18029296 0	L16013393 1	B18031690 2	E15082594 8	F16097029 8
I170247930	A18030124 9	L16013393 0	L17028830 6	E15082594 9	G16097773 3
G17021770 3	K17028089 5	C17016897 3	F17020605 8	A17014777 4	G16097742 0
F17019961 8	E17018816 1	C18032947 9	F17019961 9	A17014967 7	F16097029 7
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Table 4, Affected Generator Set Serial Numbers					
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Document History

Date	Details
2018-7-4	Module Created

Last Modified: 11-Jul-2018
