



Technical Service Bulletin

Technical Service Bulletin: TSB230101

Released Date: 29-Nov-2023

Cummins Field Action Campaign #4776: Inspection of PowerPact L 250A-600A Molded Case Circuit Breakers, from Schneider Electric

Cummins Field Action Campaign #4776: Inspection of PowerPact L 250A-600A Molded Case Circuit Breakers, from Schneider Electric

Warranty Statement

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

Contents

Product Affected

- C70D2RE
- C100D2RE

Issue

Schneider Electric has notified Cummins Inc. that a population of PowerPact L 250-600A Molded Case Circuit Breakers (MCCB) may contain a nonconforming component in the mechanism that may result in the circuit breaker **not** operating as intended under certain conditions. Cummins Inc. is campaigning these generator sets and transfer switches to implement a Product Notice PRB-233066 issued by Schneider Electric.

Verification/Confirmation

Table 1 contains the list of generator set serial numbers potentially affected by this Warranty Campaign.

Cummins requires that these generator sets be inspected (inspection instructions below Table 1) and necessary actions be taken if a unit is found to be impacted.

Table 1, List of potentially impacted generator set serial numbers

E1905623 58	H1906212 04	C2007406 05	G2109635 86	G1905998 59	I19064467 5	C2007456 52
E1905625 00	H1906191 38	E2007666 98	H2109699 02	G1906052 24	I19064039 7	C2007463 96
E1905629 37	H1906184 86	E2007674 30	H2109756 80	G1906052 23	I19064040 1	C2007464 34
E1905631 74	G1906158 72	E1905702 11	H2109778 98	G1906084 18	I19064061 3	A2108744 14
E1905632 11	G1906151 56	E1905715 56	G2109574 52	G1906097 14	I19064059 2	A2108745 97
E1905643 13	G1906158 42	F1905843 02	G2109628 21	G1906009 52	I19064249 2	B2108749 22
E1905648 51	G1906158 25	E1905751 99	G2109576 66	G1906047 54	I19064771 3	B2108768 57
E1905657 26	H1906191 40	F1905849 56	G2109550 67	G1906119 54	K1906747 93	B2108786 92
E1905659 97	H1906191 39	G1906052 22	I21098992 5	G1906151 53	K1906781 36	B2108792 16
E1905657 67	H1906285 94	G1906018 91	E1905605 39	G1906009 72	K1906781 34	B2108797 02
E1905688 84	H1906231 37	H1906200 45	E1905621 76	G1905999 40	K1906789 95	B2108770 31
E1905660 11	H1906232 19	H1906203 53	E1905607 20	G1906097 15	K1906781 37	B2108797 09
E1905688 85	H1906292 74	H1906230 99	E1905625 67	F1905853 65	I19064766 9	B2108816 70
E1905659 78	H1906288 31	H1906212 07	E1905623 57	F1905959 17	I19065133 5	B2108817 72
E1905659 79	H1906299 32	H1906203 20	E1905622 14	G1906130 14	I19064699 7	B2108797 01
E1905736 71	H1906285 95	G1906052 21	E1905622 13	G1906111 11	I19065197 6	C2108873 00
E1905780 09	H1906302 95	H1906208 41	E1905736 73	G1906106 93	J19066688 6	C2108918 17
E1905774 11	H1906272 91	I19064140 2	E1905736 92	H1906230 84	J19066185 9	C2108929 81

Table 1, List of potentially impacted generator set serial numbers

E1905743 61	H1906275 11	I19064452 3	E1905752 01	H1906235 02	J19065361 6	C2108960 77
E1905631 73	I19064030 1	I19064841 8	E1905752 02	H1906222 50	J19065361 7	C2108929 80
E1905662 84	I19064471 1	K1906826 24	E1905736 72	H1906212 03	J19066053 8	C2108990 60
E1905773 91	I19064247 3	J19067418 3	E1905694 52	G1906151 55	J19066057 5	C2108990 61
E1905773 71	I19064615 1	J19067349 5	E1905695 12	H1906203 91	J19066593 4	C2108990 56
F1905856 36	I19064253 1	J19067349 6	E1905663 14	G1906088 11	J19066593 5	C2108990 59
F1905856 05	I19064452 1	J19067349 7	E1905651 45	H1906235 04	J19066687 5	C2108996 21
F1905891 39	I19064153 2	K1906826 25	E1905657 32	H1906246 31	J19066687 4	C2108996 18
F1905890 72	I19064469 3	K1906845 58	E1905737 11	H1906235 19	J19066704 6	C2109009 74
E1905780 57	I19064613 2	K1906789 97	E1905773 52	H1906235 05	J19066704 7	C2109009 75
E1905800 32	I19064611 8	L1906933 88	E1905622 31	H1906200 43	C2007464 24	C2109024 94
F1905959 18	I19064615 2	A2007065 16	E1905648 56	H1906231 38	J19066758 6	D2109063 55
F1905988 41	I19064251 2	A2007079 39	E1905648 57	H1906222 47	J19065327 7	D2109063 49
F1905891 71	I19064451 9	C2007416 64	E1905628 73	H1906208 72	J19065327 8	D2109105 99
F1905891 52	I19064469 2	E2007608 33	E1905597 36	H1906208 71	J19067243 5	D2109090 50
F1905813 42	I19064451 7	E2007606 75	E1905642 45	H1906222 48	J19067242 7	D2109090 44
F1905879 48	I19064469 1	K2008432 86	E1905648 53	H1906232 20	J19067206 6	D2109063 54
F1905879 49	I19064467 6	H2008039 17	E1905648 54	H1906246 08	K1906845 62	D2109158 70

Table 1, List of potentially impacted generator set serial numbers

E1905800 51	I19064605 6	H2008041 98	E1905648 52	H1906222 46	J19067349 4	D2109168 18
E1905800 33	I19064613 1	K2008460 31	E1905642 44	G1906151 54	K1906837 81	D2109105 98
E1905780 08	I19064452 0	K2008471 28	E1905628 07	H1906212 02	J19066758 8	D2109196 56
F1905807 78	I19065140 2	J20083500 0	E1905695 13	H1906203 88	K1906845 61	D2109183 88
F1905849 67	J19065272 0	K2008424 99	F1905856 06	H1906222 45	K1906846 34	D2109192 38
F1905933 78	J19065272 2	L2008489 47	F1905853 48	H1906200 42	K1906846 15	D2109168 20
F1905952 51	J19066059 4	K2008484 31	F1905879 47	H1906208 73	K1906865 55	D2109192 37
F1905934 51	J19066184 1	I20081658 6	F1905888 34	H1906245 38	A2007065 14	D2109183 89
F1905949 74	J19066593 6	H2008051 79	F1905888 08	H1906246 12	A2007067 87	E2109311 84
F1905950 40	K1906747 91	K2008460 63	F1905887 23	H1906222 49	A2007096 23	E2109311 76
G1905998 60	K1906795 54	K2008385 95	F1905887 22	H1906260 70	A2007109 34	E2109311 81
G1906052 26	K1906833 70	K2008413 40	F1905908 91	H1906261 73	A2007109 81	E2109300 00
G1906019 32	K1906833 72	K2008460 59	F1905934 52	H1906254 03	A2007105 59	E2109290 62
G1906080 99	K1906837 80	K2008425 01	F1905934 48	H1906261 59	A2007124 03	E2109281 79
G1906133 49	K1906833 71	K2008409 93	F1905934 49	H1906255 24	A2007123 75	E2109287 49
G1906134 44	K1906865 54	K2008444 47	F1905813 43	H1906245 39	A2007128 55	D2109198 16
G1906151 57	K1906846 14	K2008447 52	F1905842 54	H1906262 04	A2007026 15	E2109287 48
G1906153 23	K1906899 17	K2008417 28	F1905807 80	H1906272 36	L1906967 01	E2109281 80

Table 1, List of potentially impacted generator set serial numbers

G1906158 71	K1906789 93	L2008558 84	F1905950 42	H1906272 34	L1906967 02	E2109281 56
G1906151 52	K1906899 16	L2008533 05	F1905949 76	H1906268 91	L1906953 83	E2109281 55
G1906074 11	K1906899 20	A2108572 63	F1905944 20	H1906261 37	L1906959 69	E2109311 85
G1906080 98	K1906899 18	A2108640 18	F1905908 72	H1906268 93	L1906997 74	E2109311 87
G1906130 01	L1906913 84	A2108641 61	F1905944 21	H1906268 62	L1906984 26	E2109311 78
G1906097 32	L1906933 95	A2108620 12	F1905950 52	H1906272 35	L1907005 08	E2109311 86
G1906127 36	L1906933 96	A2108618 09	F1905949 75	H1906235 18	L19070110 9	F2109360 23
G1906126 67	L1906944 23	A2108660 55	F1905952 42	H1906261 57	A2007045 07	F2109360 24
G1906088 03	F1905807 76	A2108613 03	F1905887 32	H1906292 78	A2007045 14	F2109363 50
G1906130 00	F1905879 45	A2108612 51	F1905952 45	H1906268 92	A2007128 74	F2109416 15
G1906127 35	F1905879 46	A2108660 51	F1905842 52	H1906261 58	A2007133 77	F2109416 16
G1906016 10	E1905715 91	A2108576 30	F1905813 44	H1906260 71	A2007181 19	F2109416 22
G1906019 12	E1905716 11	A2108673 59	E1905743 60	H1906299 31	A2007218 15	F2109416 19
G1906009 71	E1905702 33	A2108695 43	F1905908 35	I19063531 1	B2007229 95	F2109417 39
G1906106 94	E1905710 31	B2108797 07	F1905887 35	I19063607 7	B2007232 62	F2109417 40
G1906111 12	E1905710 05	A2108696 08	F1905887 34	I19063608 1	B2007229 62	F2109417 41
G1906127 37	E1905715 71	A2108701 65	F1905846 03	I19063529 2	B2007233 21	F2109416 20
G1906130 15	E1905715 72	C2108893 61	F1905887 31	I19063608 0	B2007260 40	D2109063 59

Table 1, List of potentially impacted generator set serial numbers

G1906131 11	H1906191 35	C2108982 25	F1905952 71	I19063720 7	B2007260 41	D2109158 69
G1906129 99	H1906191 36	C2108960 76	F1905959 16	I19063710 2	L1906933 97	D2109183 90
G1906080 97	H1906302 52	C2109025 33	F1905849 55	I19063710 1	K1906883 16	D2109158 77
G1906084 17	I19064059 1	D2109158 76	F1905853 47	I19063607 8	K1906883 20	F2109417 42
G1906088 02	I19064061 1	E2109311 82	E1905752 00	I19063533 1	K1906888 61	F2109416 21
G1906080 96	H1906191 37	E2109281 81	F1905807 79	I19063723 1	K1906888 60	F2109416 14
G1906073 82	I19064800 6	E2109297 58	F1905950 43	I19064605 7	K1906891 74	F2109469 74
G1906016 92	H1906207 93	E2109332 38	F1905846 06	I19063746 7	K1906891 76	F2109469 75
G1906017 11	I19064800 7	F2109491 15	F1905944 04	I19063761 9	K1906891 77	F2109498 20
F1905995 31	I19064770 4	F2109438 49	F1905800 17	I19064699 4	K1906899 21	G2109509 56
F1905992 30	I19064838 5	F2109438 52	F1905800 34	I19064699 3	L1906913 69	F2109498 21
F1905995 32	I19064840 2	F2109438 50	E1905800 52	I19064140 3	L1906944 46	G2109527 77
G1906047 53	L1906966 99	G2109503 05	F1905813 45	I19063764 1	B2007241 88	G2109516 60
F1905989 14	I19065196 6	I21098822 0	F1905944 31	I19063723 2	B2007232 63	F2109490 14
F1905992 31	J19067418 4	I21098821 8	E1905743 59	I19064039 9	B2007260 42	G2109514 17
G1906073 80	L1906992 73	H2109778 99	F1905944 03	I19063761 7	B2007275 45	G2109514 16
G1906084 16	L1906971 74	H2109779 00	F1905846 05	I19064699 6	B2007339 35	H1906231 95
G1906052 25	B2007353 05	H2109703 77	F1905846 04	I19064770 6	B2007338 86	I19065140 3

Table 1, List of potentially impacted generator set serial numbers

G1905998 99	B2007353 04	I21098821 9	F1905842 53	I19064699 5	B2007339 34	L2008562 97
F1905994 96	L1906996 65	F2109469 50	G1906087 52	I19064695 6	B2007353 07	B2108768 58
G1906134 57	B2007367 95	G2109574 53	G1906107 31	I19063761 8	C2007388 84	C2108893 60
G1906134 43	A2007047 60	G2109503 07	G1906067 63	I19063765 1	C2007388 29	G2109576 65
G1906133 79	A2007058 37	F2109469 51	G1906110 69	I19064035 6	C2007416 62	G2109550 62
G1906134 56	A2007065 17	F2109469 53	G1906110 70	I19064040 0	C2007428 62	
F1905991 86	A2007067 85	F2109469 52	G1906106 92	I19064059 3	C2007428 61	
G1906009 51	A2007139 74	I21098970 3	F1905952 44	I19064061 2	C2007438 46	
G1906133 80	A2007133 78	H2109703 75	F1905959 15	I19064063 1	C2007439 14	
G1906133 81	A2007217 95	H2109750 93	F1905989 12	I19064039 8	C2007448 09	
H1906292 75	B2007241 96	H2109703 74	F1905989 13	I19063761 6	C2007448 10	

To determine if a particular MCCB is impacted, follow the “Date Code Identification Guidance” below, per PRB-233066, of Schneider Electric.


Comply to local safety procedures and LOTO the unit before beginning to inspect the date code.


Refer below regarding safe electrical working practices from Schneider Electric.

Safety instructions for any intervention including product date code identification.

Important Information

NOTICE
Read these instructions carefully, and look at the equipment to become familiar with the device before trying to install, operate, or maintain it. The following special messages may appear throughout this documentation or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.

 The addition of this symbol to a Danger or Warning safety label indicates that an electrical hazard exists, which will result in personal injury if the instructions are not followed.

 This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER
DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING
WARNING indicates a potentially hazardous situation which, if not avoided, can result in death or serious injury.

CAUTION
CAUTION indicates a potentially hazardous situation which, if not avoided, can result in minor or moderate injury.

NOTICE
NOTICE is used to address practices not related to physical injury.



PLEASE NOTE
Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel.
No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

A qualified person is one who has skills and knowledge related to the construction and operation of electrical equipment and the installation, and has received safety training to recognize and avoid the hazards involved.

17r01342

Figure 1, Safe Working Practices

Safety instructions

  **DANGER**

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E, CSA Z462 or local equivalent.
- This equipment must only be installed and serviced by qualified electrical personnel.
- Unless specified otherwise in the maintenance procedures, all operations (inspection, test and preventive maintenance) must be carried out with the circuit breaker (device and chassis) and the auxiliary circuits de-energised.
- Checks to ensure that the circuit breaker is de-energised must be carried out on the upstream and downstream terminals.
- Always use a properly rated voltage sensing device to confirm power is off.
- Install safety barriers and display a danger sign.
- During the tests, it is strictly forbidden for anyone to touch the circuit breaker or the conductors while voltage is applied.
- Before putting the equipment back into operation, it is mandatory to check that all connections are made with the correct tightening torque, the inside of the cabinet is clean, all devices, doors, and protective covers are in position and the circuit breaker is off (open position).

Failure to follow these instructions will result in death or serious injury.

17r01343

Figure 2, Additional Safe Working Practices

To determine if a particular MCCB is impacted, follow the “Date Code Identification Guidance” below. Comply with local safety standards and lock out tag out (LOTO) the unit before beginning to inspect the date code.

Inspect 5-digit date code on the front faceplate cover of the MCCB.

If the 5-digit date code on the front faceplate cover is within the date code range of Table 2, proceed to the “Resolution Step”. If the date code is **not** within the range, then the breaker is **not** impacted.

If the breaker is **not** impacted, place a green OK sticker or blue round dot sticker on the circuit breaker to represent “Inspected and not impacted.” Reference to “Service Instruction” section for claim filing information for breaker inspection.

Note: The Date Code of the circuit breaker MUST be mentioned in the claim complaint section and entered in the Go Canvas mobile app. See Go Canvas use instructions in step 5 of the service instructions section below .

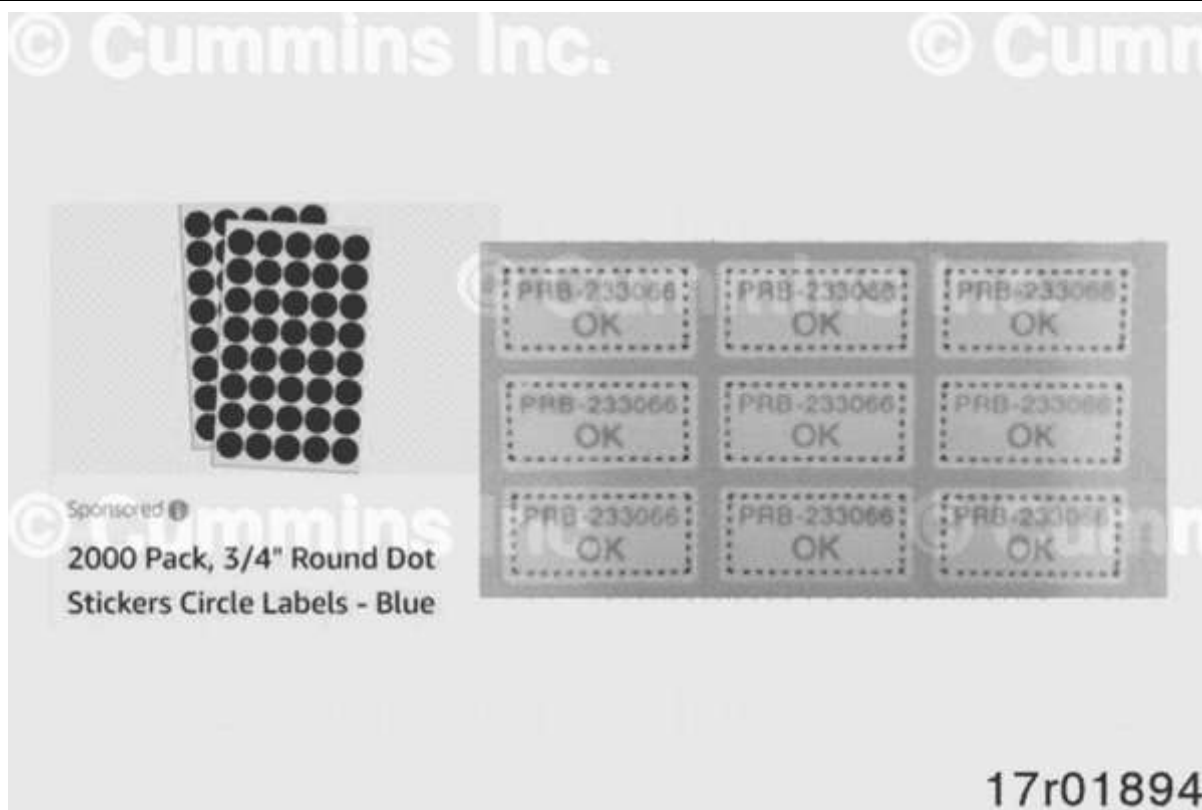


Figure 3, Example of Stickers

Note: Removal of the control panel cover may be needed to gain access to the date code on the breaker.

Table 2, Date code window for front faceplate cover

Impacted Block Date Code window	Interpretation of the date code
19284 to 21145	From 4 th day of 28 th week of 2019 to 5 th day of 14 th week of 2021



Figure 4, Breaker Date Code Location on A055A272

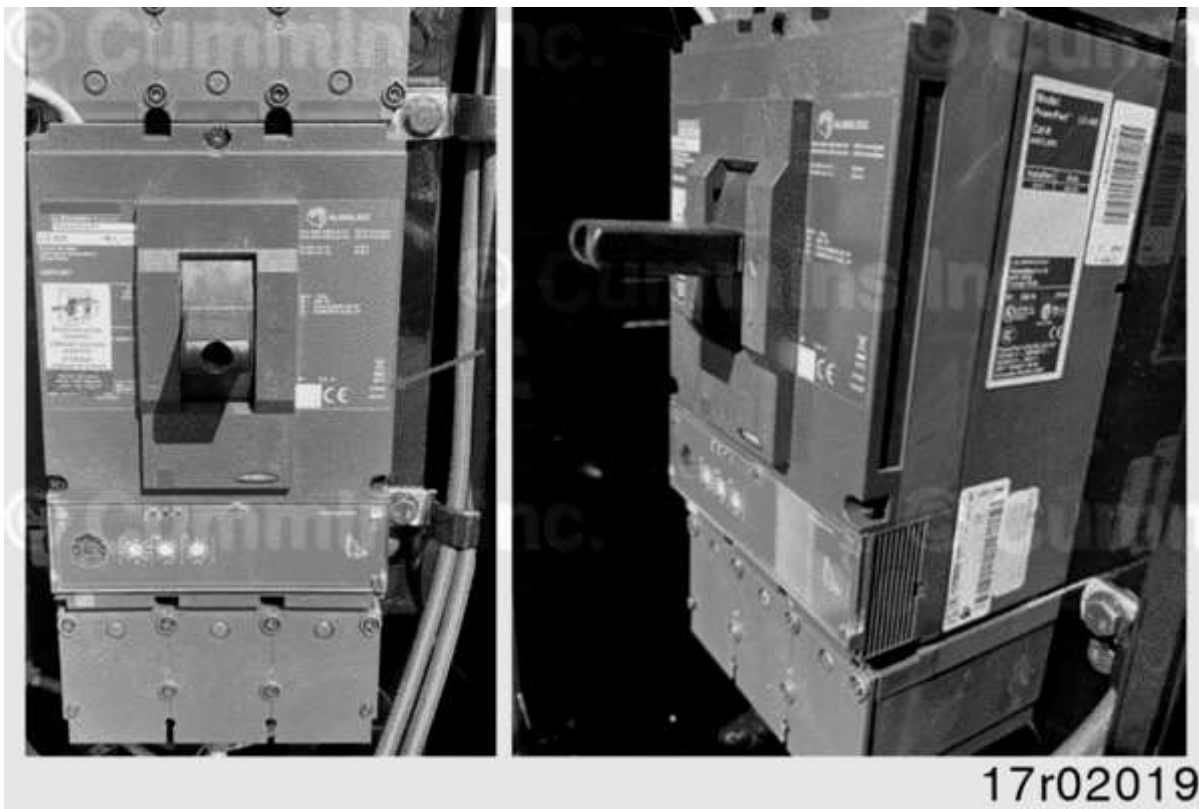


Figure 5, Breaker Date Code Location on A057L891

Table 3, Affected MCCB models

Schneider Electric Part Number of MCCB	Cummins Part Number of MCCB
LGL36400U33XSO	A057L891
LGL36400U33XABUOMO	A055A272

Resolution

This TSB does **not** authorize any repairs. This TSB only authorizes inspection of the Schneider circuit breaker.

- If the breaker is not within the affected population, place a green OK sticker or blue round dot sticker on the circuit breaker to represent “Inspected and not impacted.” Refer to “Service Instruction” section for claim filing information.

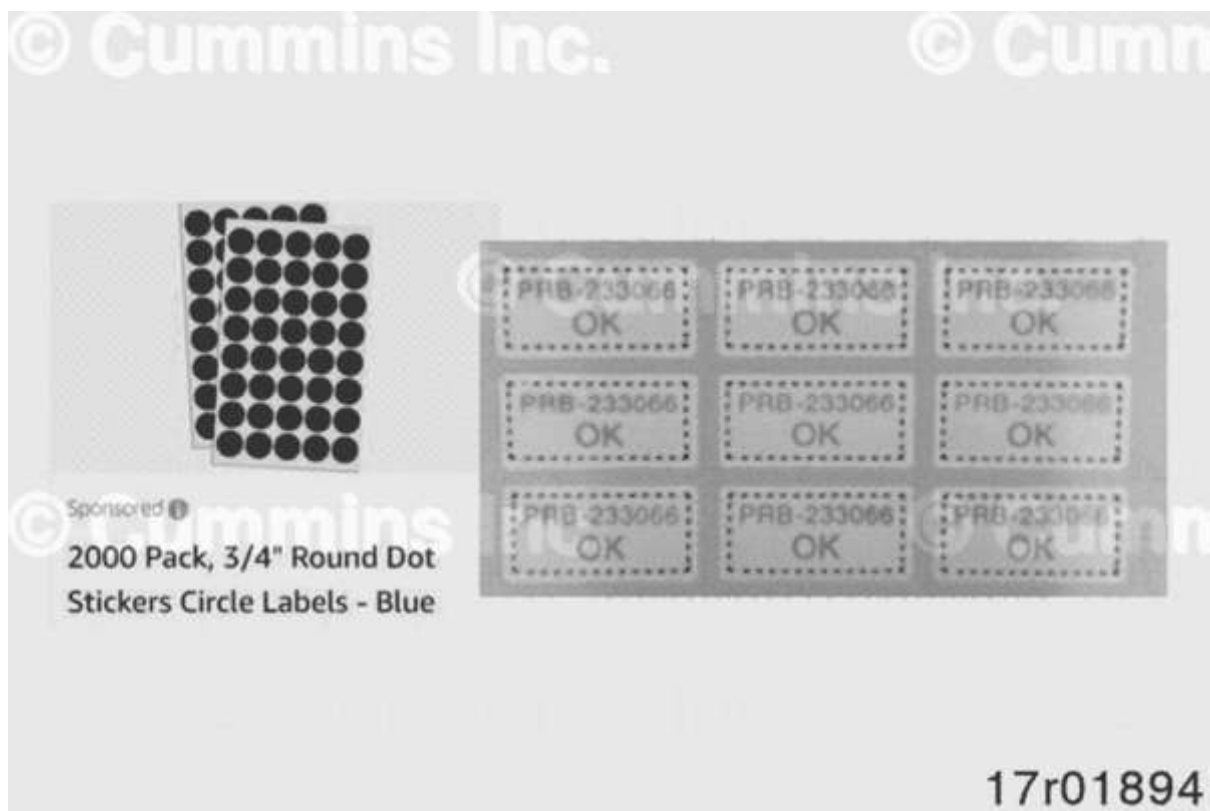


Figure 6, Example of Stickers

- Impacted breakers need to be repaired by the local Cummins branch according to the repair procedure in TSB230102. See “Service Instruction” section for next steps.

Service Instructions

1. If the circuit breaker is confirmed to **not** have this issue, place a blue round dot sticker on the circuit breaker to represent “inspected and not impacted” and proceed to step 4.
2. If the circuit breaker is confirmed to be within the affected date code range, call your local branch to have them complete the work outlined in TSB230102. Proceed to step 4.
3. Remove LOTO
4. Submit claim for circuit breaker inspection as per below authorization details:
 - Campaign Authorization Details:
 - Authorization Code – 4776
 - Account code – 65
 - Fail code – GK-CB-WP
 - Complaint section **MUST** include:
 - Customer Name and Address
 - Breaker date code
 - Travel – Allowing no more than 1 trip for inspection.
 - Note - Expectation is one trip for inspection, if an additional trip is required, please provide detailed justification in claim.
 - Expiration Date – January 31st, 2027

5. Go Canvas Input Instructions

- Download the GoCanvas app on your device app store or access it online at this URL <https://www.gocanvas.com>
- Launch app to Log in with below credentials
 - Email: Cummins_fsr@se.com, Password: Orchid
- Fill out form by selecting top form "Orchid Intervention - PRB-233066".



Figure 7, Go Canvas PRB-233066

i. Select options below in Figure 8



Figure 8, Go Canvas Step II

ii. Enter Subcontractor Details.



Figure 9, Go Canvas Subcontractor Details Input

iii. Read click 'Next' to continue. Technicians are **NOT** required to input all information. **ONLY** the date code on the front of the breaker is required.



Figure 10, PRB-233066 Requirements

iv. Manually enter the 5-digit breaker date code located on the front of the breaker (box 1 in Figure 11) and click 'Done' (box 2 of Figure 11).

Note: ONLY the breaker date code needs to be recorded

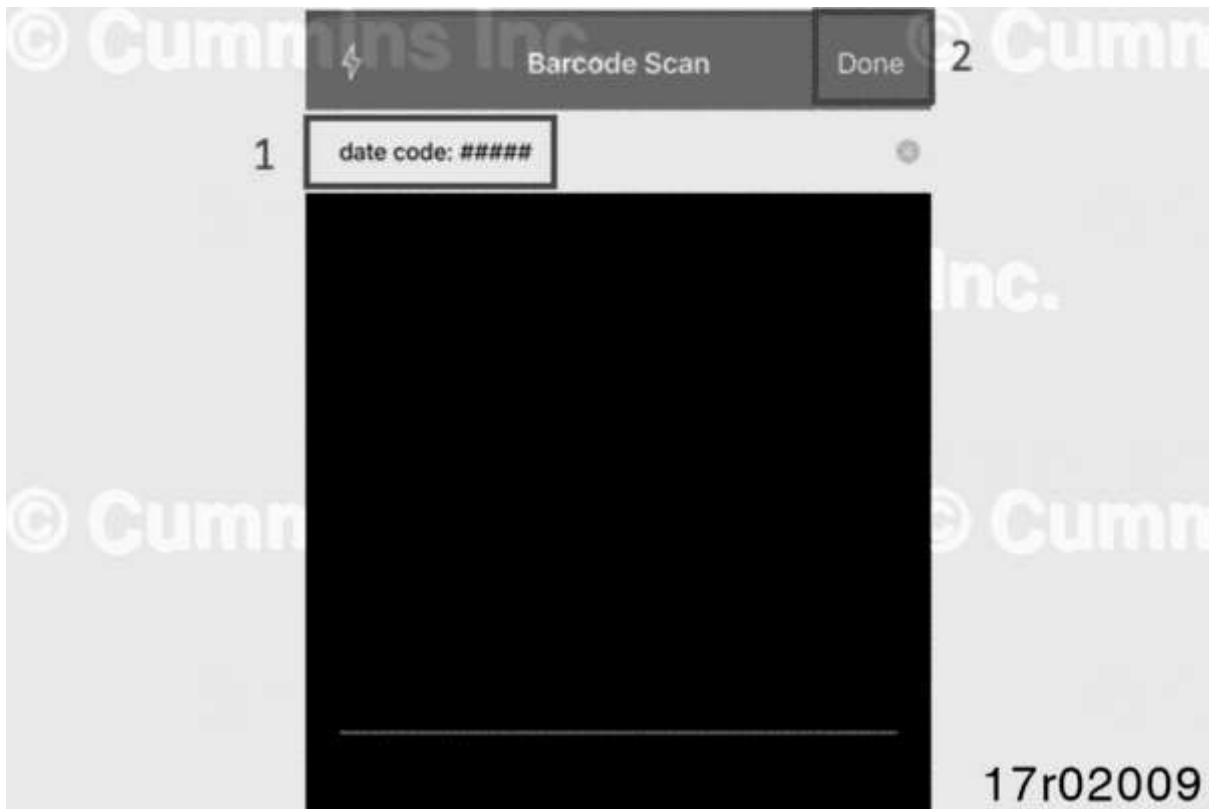


Figure 11, Example Bar Code Input Format

v. Repeat step IV above for any additional breaker date codes. Once all breaker date codes are entered, click 'Next'.



Figure 12, Date Code Entered to Intervention Details

vi. Leave text boxes blank and select the appropriate breaker classification in box 1 and appropriate rest result in box 2 of figure 13. Click 'Done' when finished.



Figure 13, Breaker Action and Test Result Selection

vii. Enter Number of impacted and NOT impacted breakers at site location.

Note: Multiple date code inputs required to input more than one in this section



Figure 14, Breaker Quantity Input

viii. Enter Date the inspection/repair is performed, Travel time to site and labor time for inspection/repair information.

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Orchid Intervention - PRB-233...

Intervention Details

Intervention Start Date
10/09/2023

Intervention End Date
10/09/2023

Intervention Distance (Total distance traveled, to and from customer site)
Number of miles round trip

Intervention Travel Time (hours)

Intervention Duration (hours)

Next

17r02013

Figure 15, Date and Travel Input

ix. Obtain Technician signature and Customer signature. Make best efforts to obtain customer signature.

Note: If customer is not available, write “customer not available” in the signature box.

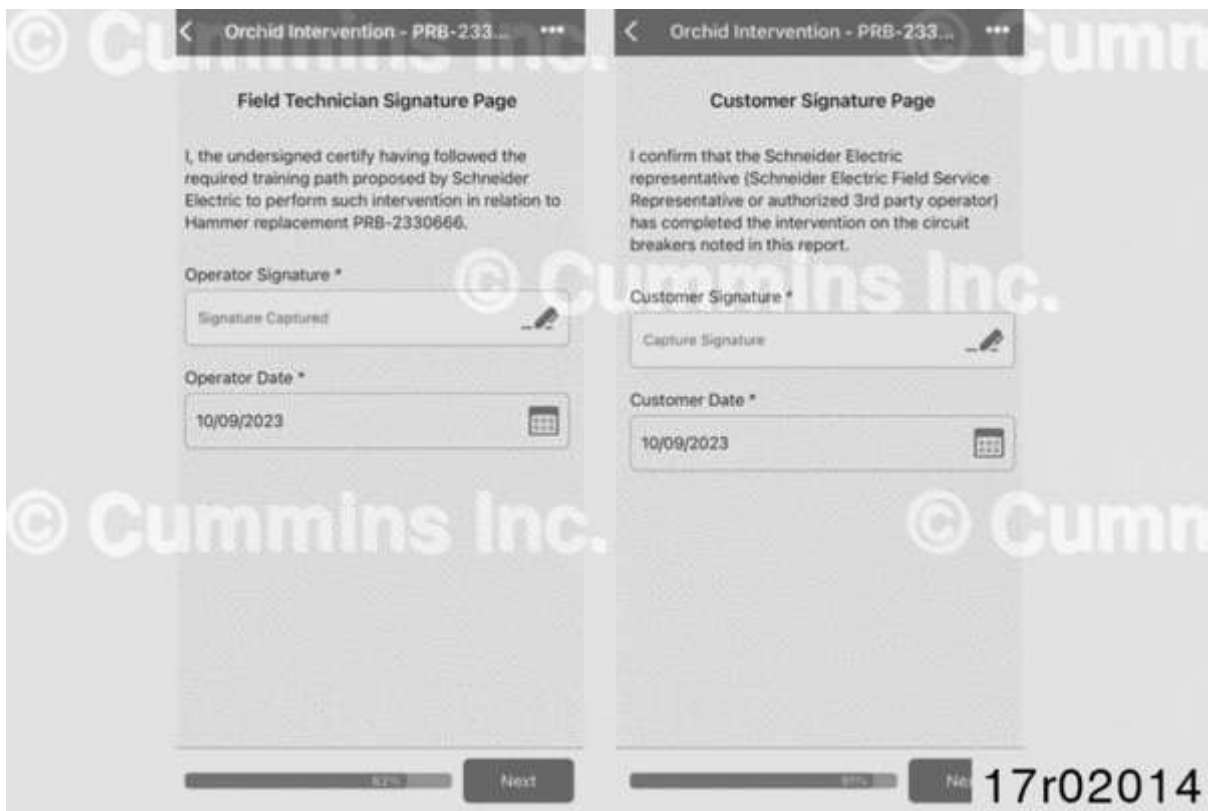


Figure 16, Signatures Required

x. Confirm below selections are made and click 'Submit' to complete report.



Figure 17, Submitting Form

6. SRTs

SRTs for inspection of only front faceplate date code – 0.6 hours total

00-90F – Admin time – 0.2 hours

99-999 – Go Canvas information entering – 0.3 hrs

99-999 – Inspect breaker for front faceplate cover date code – 0.1 hours

Includes:

Disconnect/connect battery.

Disconnect/connect generator from bus.

Document History

Date	Details
2023-5-11	Module Created
2023-6-7	Non-Product Problem Solving (PPS)
2023-10-30	Non-Product Problem Solving (PPS)

Last Modified: 29-Nov-2023
