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	Date: Mar 22, 2024	Authorization #: ECN1179405
Title: RG CARB DOC SWITCH KIT	Supersedes: A	
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Installation kit for the Diesel Oxidation Catalyst switches on the 69RG15 -24 series gensets

Tools and Item Required:

1. Center Punch
2. Drill
3. .129-.133 Drill bit (Ref. Wire Gauge 30)
4. Pneumatic/electric Rivet Tool (required)
5. Zip tie gun (required)
6. 7/16”, ½”, 9/16” socket
7. Drill Stop
8. 14 AWG crimpers
9. Isopropyl cleaner

Package content (note: extra rivets and zip ties provided):

Item No.	Description	P/N	Qty
1	Thermal Switch	12-00954-00	2
2	Permatex Ultra Red 81630/ 81624	Purchase Local	
3	Rivets	34-00928-01	5
4	Wire Harness	22-04668-00	1
5	Thinner Side Edge clip & zip tie	44-60150-04	1
6	mini Zip tie	66-u---1--3882-4	3
7	Thicker side edge clip & zip tie	44-60150-03	1
8	Top Edge clip	58-01428-00	1
9	Zip ties	58-00079-00	7
10	Male spade terminal	22-01502-01	1
11	Schematic label	62-12431-00	1
12	Attention Label	62-12430-00	1
13	All-purpose Silicon (for grommet only)	Purchase Local	
14	RG instructions	98-02769-00	1




Before starting the installation of this kit, make sure the unit is OFF and negative battery terminal is disconnected.

Follow your regional lockout tag out procedure.

Beware of moving poly V-belt, belt driven components and hot exhaust components.

Beware of pinch points

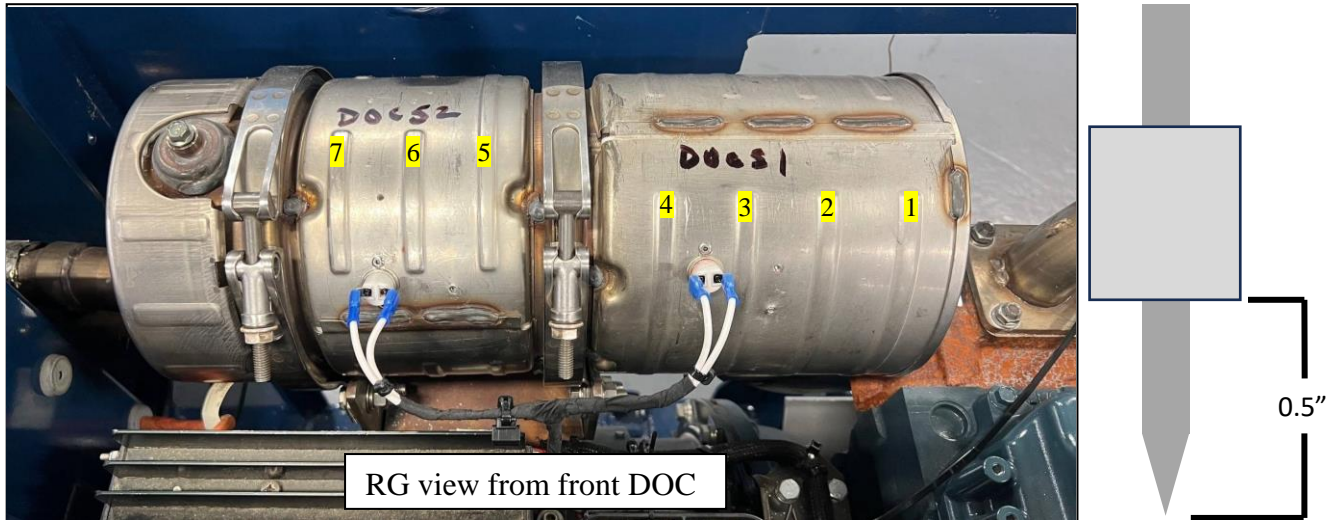
Used On: CARB GenSet	Prepared By: Swidler	Approved By: Hoover	Date: Mar 22, 2024
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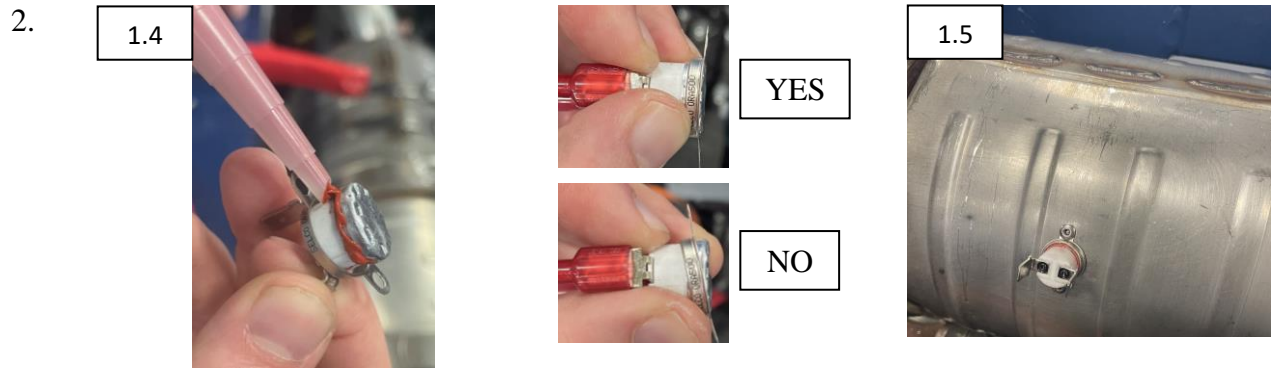
Procedure:

1. Mounting Switches to Diesel Oxidation Catalyst (DOC)


- 1.1. Remove genset cover and disconnect battery. If DOC blanket is found, remove and discard as it is no longer required.
- 1.2. Using the switches (item 1), mark and punch locations for drilling. Position so switches are against the body of the DOC and align between rib 3 and 4 and between rib 6 and 7. Ensure bracket goes along radius of DOC. The switch brackets are positioned forward so they sit above the battery charger at the 2 o'clock position when viewed from the outlet .



- 1.3. Drill holes with a .129-.133" drill bit and drill stop at 0.5" at the punched holes.
- 1.4. Apply silicone (item 2) to rim of switch to help seal it. Ensure contact area remains clean.
- 1.5. Attach Switches to DOC using rivets (item 3) and rivet tool. Ensure bracket is flat against switch head. Use pneumatic or electronic rivet gun to ensure tightness of installation.

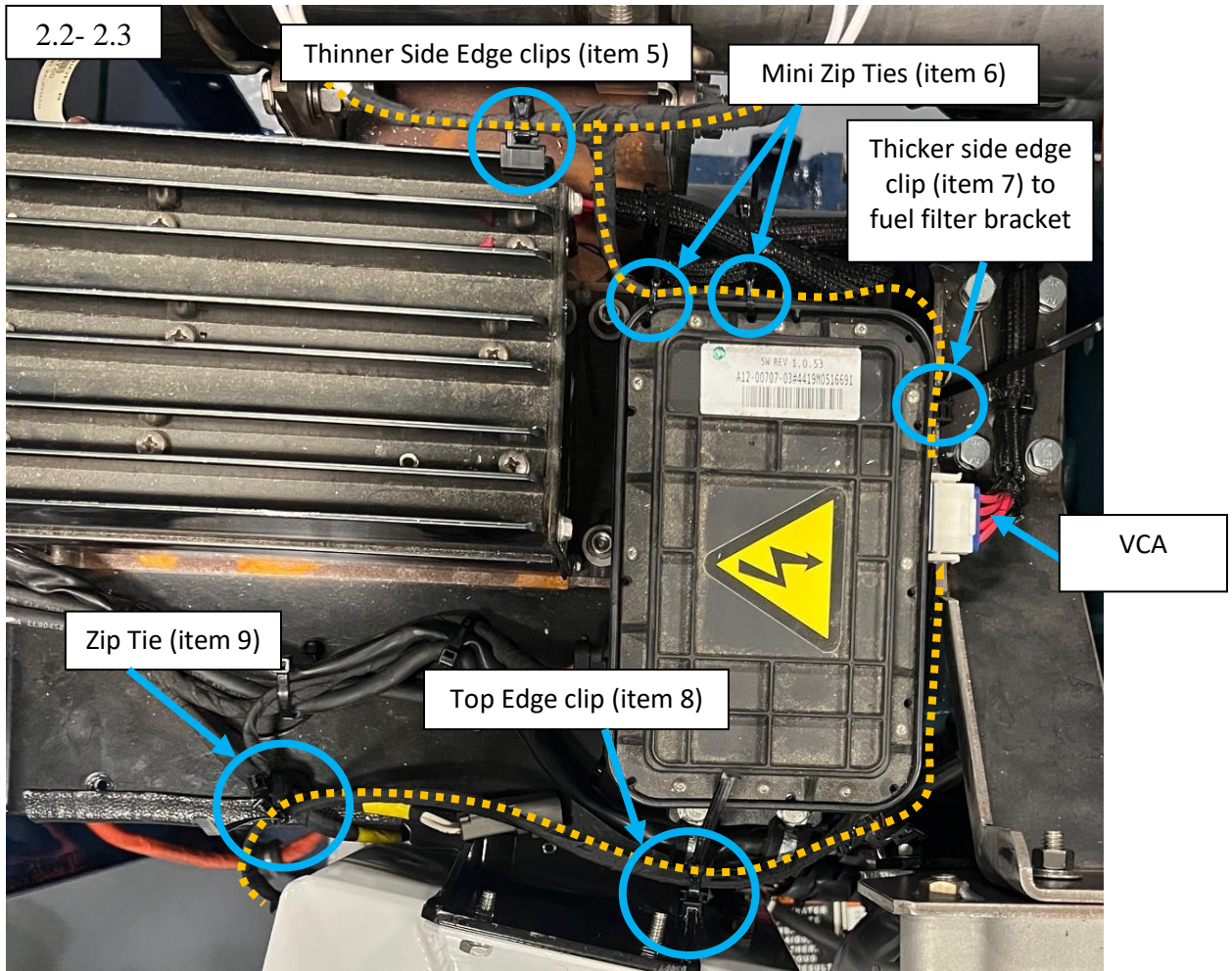
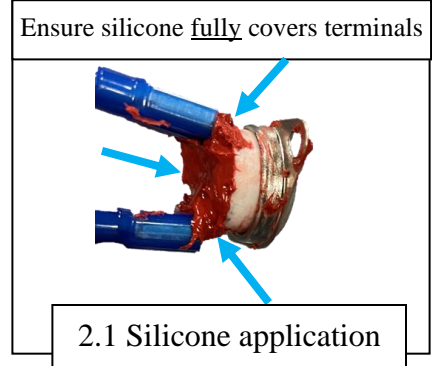


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Route Harness RG

- 2.1. Connect harness (item 4) to the switches and apply silicone (item 2) fully around the terminal connections.
- 2.2. Route harness along battery charger and around the voltage controller, going under the VCA connection. Use zip ties and edge clips (items 5-9) to secure. (see below).
- 2.3. Continue routing harness around the voltage controller (under the connection) and behind control box. Ensure cable does not come into contact with voltage controller (see below).



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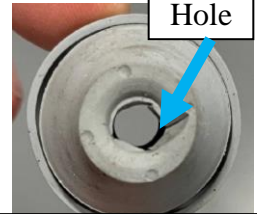
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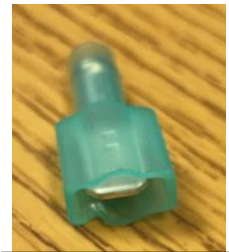
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3. Install harness into control box.

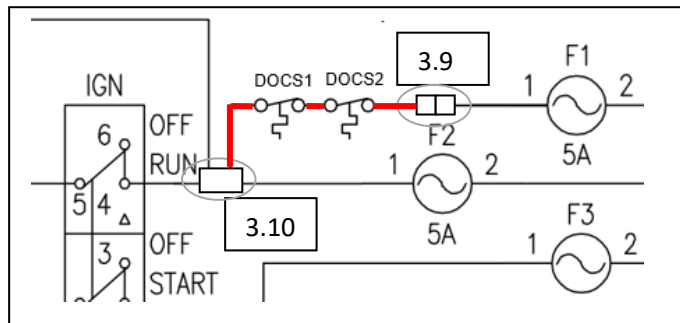
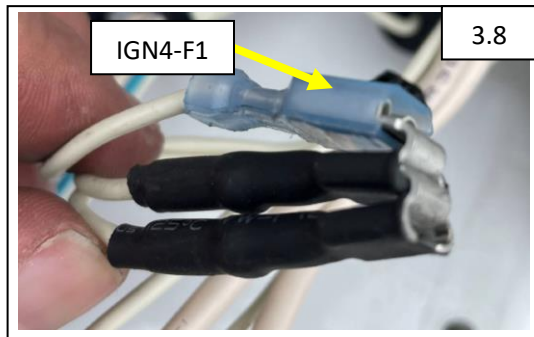
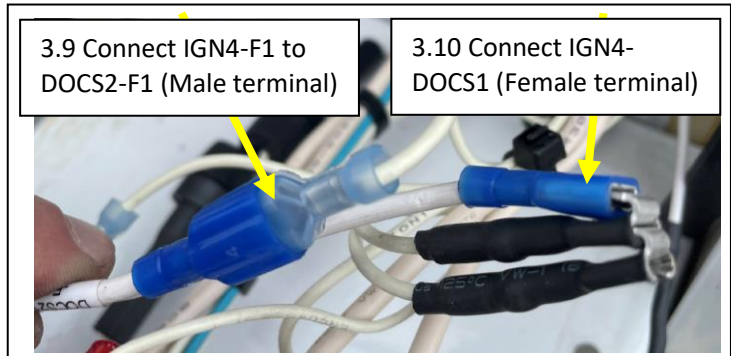
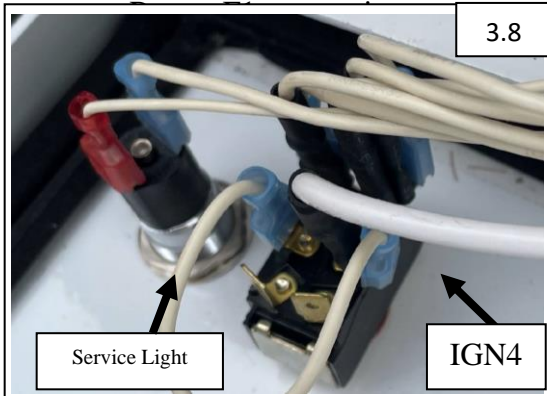
- 3.1. Ensure battery is disconnected.
- 3.2. Open control box.
- 3.3. Remove bottom grommet from side of control box, if populated use top.
- 3.4. Remove hole in the end of the grommet using needle nose pliers and feed cables through.
- 3.5. Slide grommet over the heat shrink on wire, placing it in the middle of the heat shrink.
- 3.6. Feed cables into control box and seat grommet.
- 3.7. Crimp stripped cable with male spade terminal (item 10).
- 3.8. Remove connectors from IGN4 receptacle. Separate IGN4-F1 spade from the piggy-back connectors. (see right, below)
- 3.9. Connect IGN4-F1 female spade to the IGN4-DOCS2 male connector. (see below)
- 3.10. Connect IGN4-DOCS1 female connector to IGN4 piggy-back connectors and reseal into IGN4. (see below)
- 3.11. Open F1 fuse connector, ensure continuity between F1 and IGN4.



3.4 Cut Grommet



3.7 Male Spade terminal



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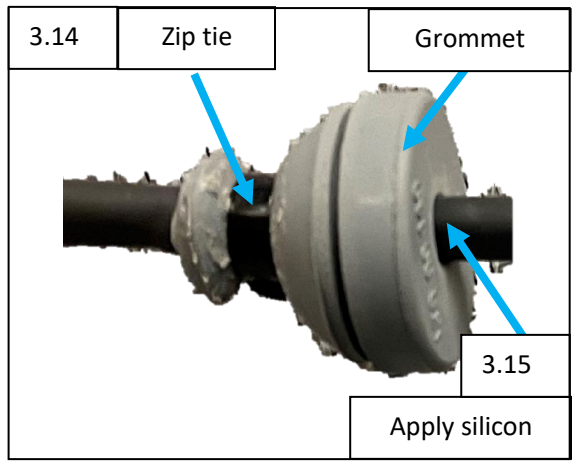
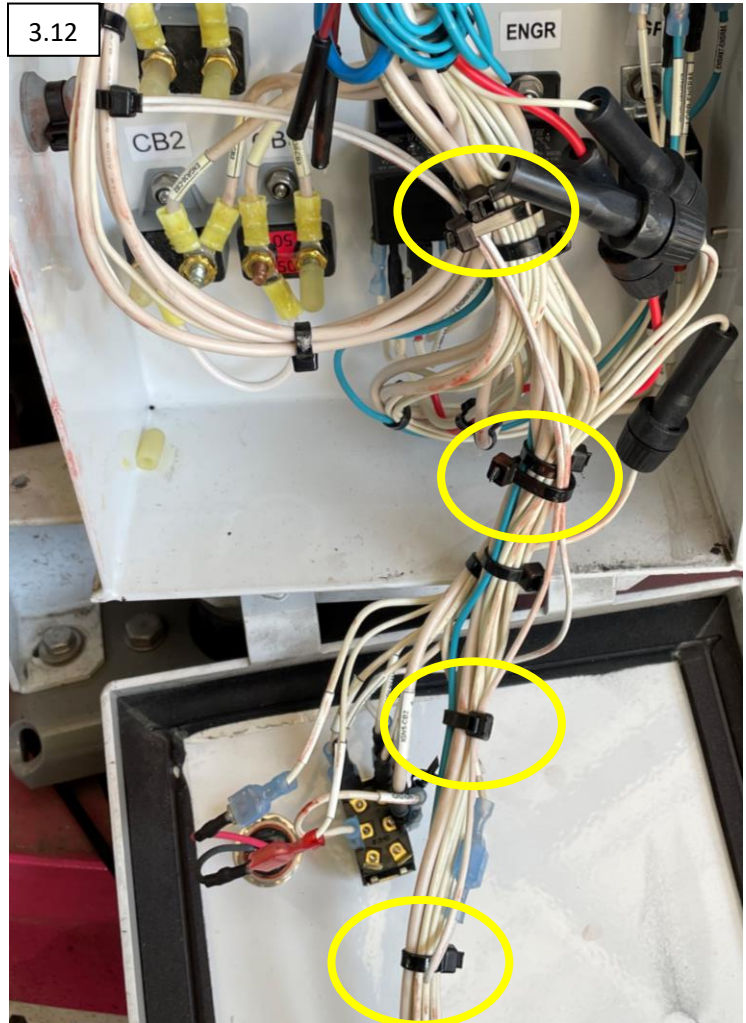
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- 3.12. Secure wires with zip ties (item 9). **NOTE:** Save two for next steps.
- 3.13. With a zip tie (item 7), create a drip loop on the exterior of the control box. (see below)
- 3.14. With a zip tie (item 7), secure nozzle of grommet inside of the control box. (see below)
- 3.15. Apply Permatex or other all-purpose silicone inside the grommet from exterior.
- 3.16. Close control box, ensure gasket is in place.
- 3.17. Clean area around old schematic label on cover using isopropyl cleaner. Apply new schematic label (item 11) on top of old label.
- 3.18. Reconnect Battery.




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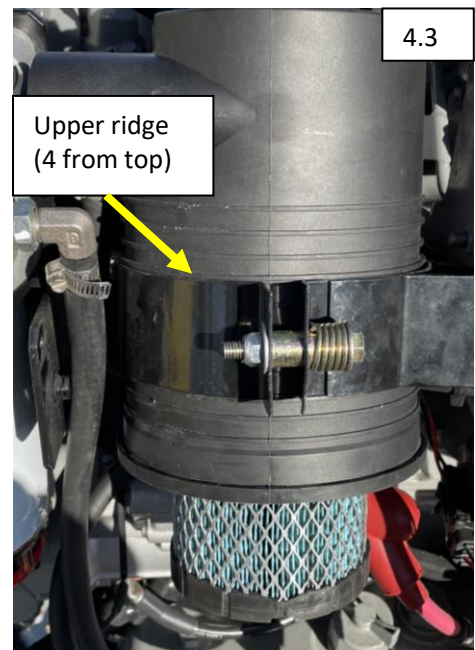
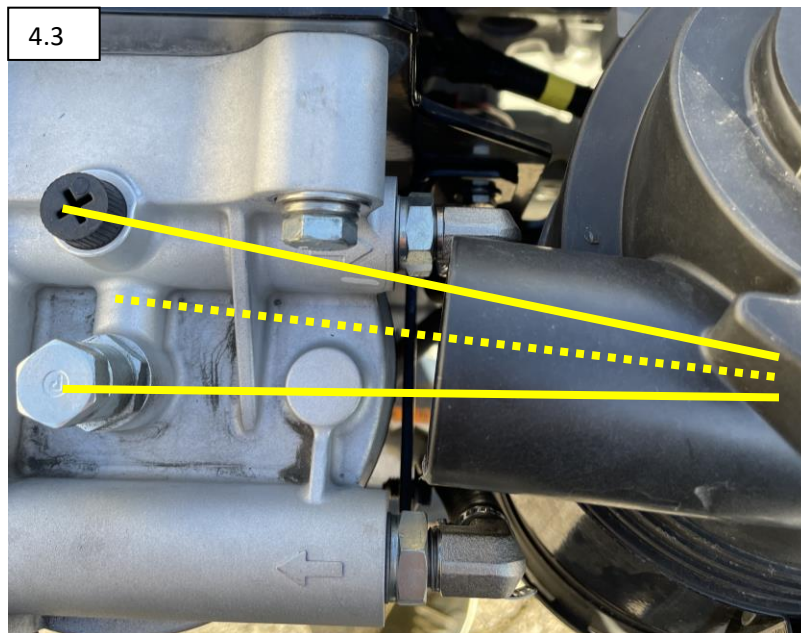
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4. Final Steps

- 4.1. Apply attention sticker (item 12) and brown indicator dot to the outside of the control box cover. Ensure surface is clean with isopropyl cleaner and dry.
- 4.2. Remove the lower cover of the air filter element and loosen the air filter element bracket screw.
- 4.3. Rotate the upper intake so that it faces towards the fuel filter head, between the solid lines (see below). **Ensure intake does not touch fuel lines and the air filter bracket is in the element's grooves** (see below).
- 4.4. Tighten the air filter element bracket and reattach lower cover.
- 4.5. Inform your field service engineering manager of unit(s) that are completed. Ensure to include Genset ID, Serial Number, Unit hours, and Date of completion in report.



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