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Installation kit for the Diesel Oxidation Catalyst switches on the 69UG15 -24 series gensets

Tools and Item Required:

1.	Center Punch
2.	Drill
3.	.129133 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 included):

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	22-04668-01	1
5	Zip tie w/ side edge clip	58-01441-00	2
6	Double Loop Zip tie	58-00969-00	2
7	Zip ties	58-00079-00	8
8	Male spade terminal	22-01502-01	1
9	schematic - UG	62-12432-00	1
10	Attention Label	62-12430-00	1
11	All-purpose Silicon (for grommet only)	Purchase Local	
12	UG instructions	98-02768-00	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

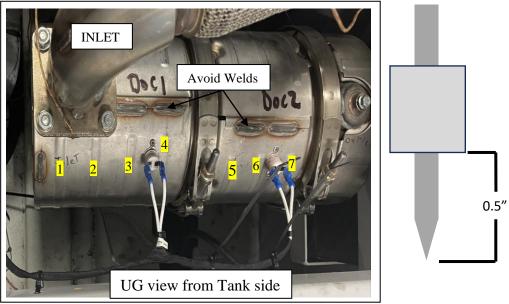
<u>Used On:</u> UG CARB GenSet	Prepared By:	Approved By:	Date:
	Swidler	Hoover	Mar 22, 2024

Carrier	No.: 98-02768-00 Date: Mar 22, 2024	Rev: B Authorization #: ECN1179405
TRANSICOLD		
Title: UG CARB DOC SWITCH KIT	Supersedes:	
Kit#: 74-00328-00	Page:2 of 6	

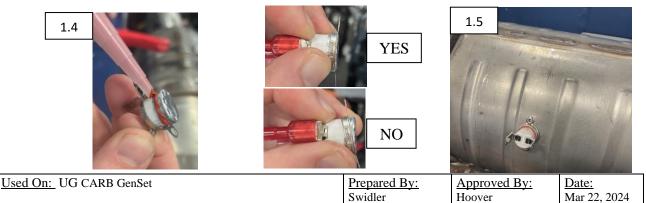
Procedure:

1. Mounting Switches to Diesel Oxidation Catalyst (DOC)

- 1.1. Remove cover and disconnect battery.
- 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 switches should be positioned towards the tank at the 2 o'clock position when viewed from the inlet. Avoid placing switches on welds.



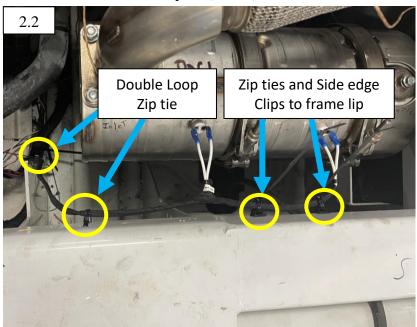
- 1.3. Drill holes with a .129-.133" drill bit and drill stop at 0.5" at the punched holes.
- 1.4. Apply silicone (item 2) to rim of switch to seal it. Ensure switch's contact area remains clean.
- 1.5. Attach Switches to DOC using rivets (item 3) and rivet tool. Ensure bracket is flat against switch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



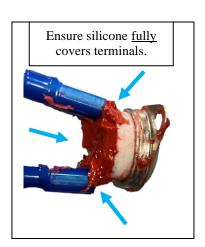
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2. Route Harness UG

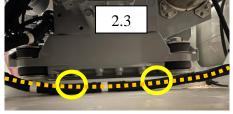
- 2.1. Connect harness (item 4) to the switches and apply silicone (item 2) fully around the terminal connections.
- 2.2. Route harness along the inside of the roadside frame and down along rib. Secure with edge clips and zip ties (item 5) and a double headed zip tie (item 6).

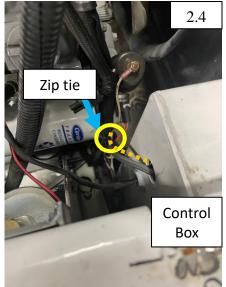


- 2.3. Remove lower access panel and route wire harness under the engine securing along existing harness with zip ties (item 7).
- 2.4. Route harness up to the left of the control box. Secure to the oil pressure bundle with zip tie (item 7)



2.1 Silicone application





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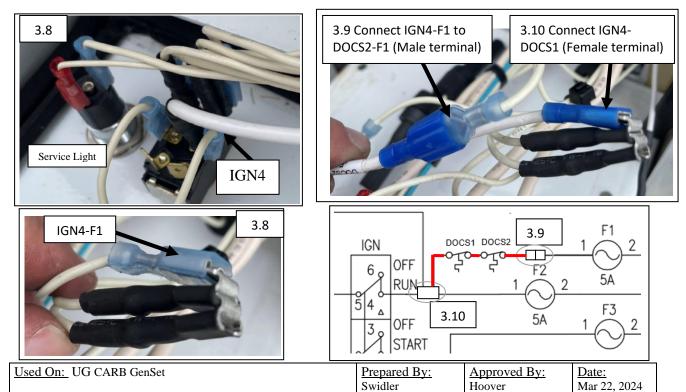
3. Install harness into control box.

- 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 8).
- 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 reseat into IGN4. (see below)
- 3.11. Open F1 fuse connector, ensure continuity between F1 and IGN4. Reseat F1 connection.





3.7 Male Spade terminal





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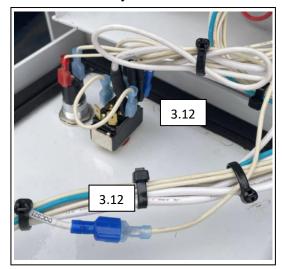
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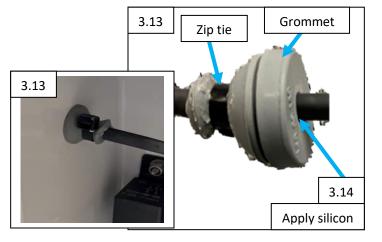
Supersedes:

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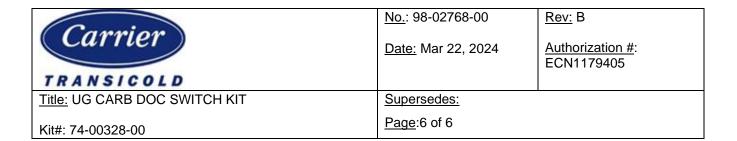
- 3.12. Secure wires in control box with zip ties (item 7). **NOTE:** Save 1 zip tie for next step
- 3.13. With a zip tie (item 7), secure nozzle of grommet inside of the control box (see below). **NOTE:** Use zip tie gun to secure zip tie.
- 3.14. Apply the Permatex or other silicone inside the grommet from exterior.
- 3.15. Close control box, ensure gasket is in place.
- 3.16. Clean area around old schematic label using isopropyl cleaner. Apply new schematic label (item 9) on top of old label.
- 3.17. Reconnect Battery.







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4. Final steps

- 4.1. Check the area to make sure no debris/trash is present.
- 4.2. Check air intake to ensure no debris is present.





- 4.3. Apply attention sticker (item 10) and brown indicator dot to the frame of the unit near the control box. Ensure area is clean with isopropyl cleaner and dry.
- 4.4. 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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