

**Subject: DT12 Transmissions with Dual Customer-Installed PTO Wiring Update**

**Make: Freightliner**

**Model: New Cascadia**

**Model Year Affected: 2022 through 2023**

**Build Date Range: Selected Vehicles Built Between 8/6/2021 to 1/8/2022**

Our records indicate that you are the owner of certain vehicles; therefore, DTNA has decided to share the following documentation with you.

Please see the attached communication in this email. We hope you find this information helpful.

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## Work Instructions

1. Park the vehicle on a level surface, shut down the engine, and apply the parking brakes. Chock the tires.

2. See harness print A06-90930-000 in EZ Wiring. See [Fig. 1](#) for a visual overview of the procedure.

3. Locate the two-pin connector *PTO\_ENG\_O\_SW\_PTO1\_1A* and note vacant cavity 'A'. Next, locate the referenced connector *ENG\_H\_CHAS\_F\_CE\_1B* for existing circuit 200E.

De-pin or depopulate circuit 200E from *ENG\_H\_CHAS\_F\_1 B*. Either elongate this circuit to reach the two-pin connector *PTO\_ENG\_O\_SW\_PTO\_1A*, or follow it back to its main splice at diamond 034 A and run a new circuit from this splice to the two-pin connector *PTO\_ENG\_O\_SW\_PTO1\_1A*.

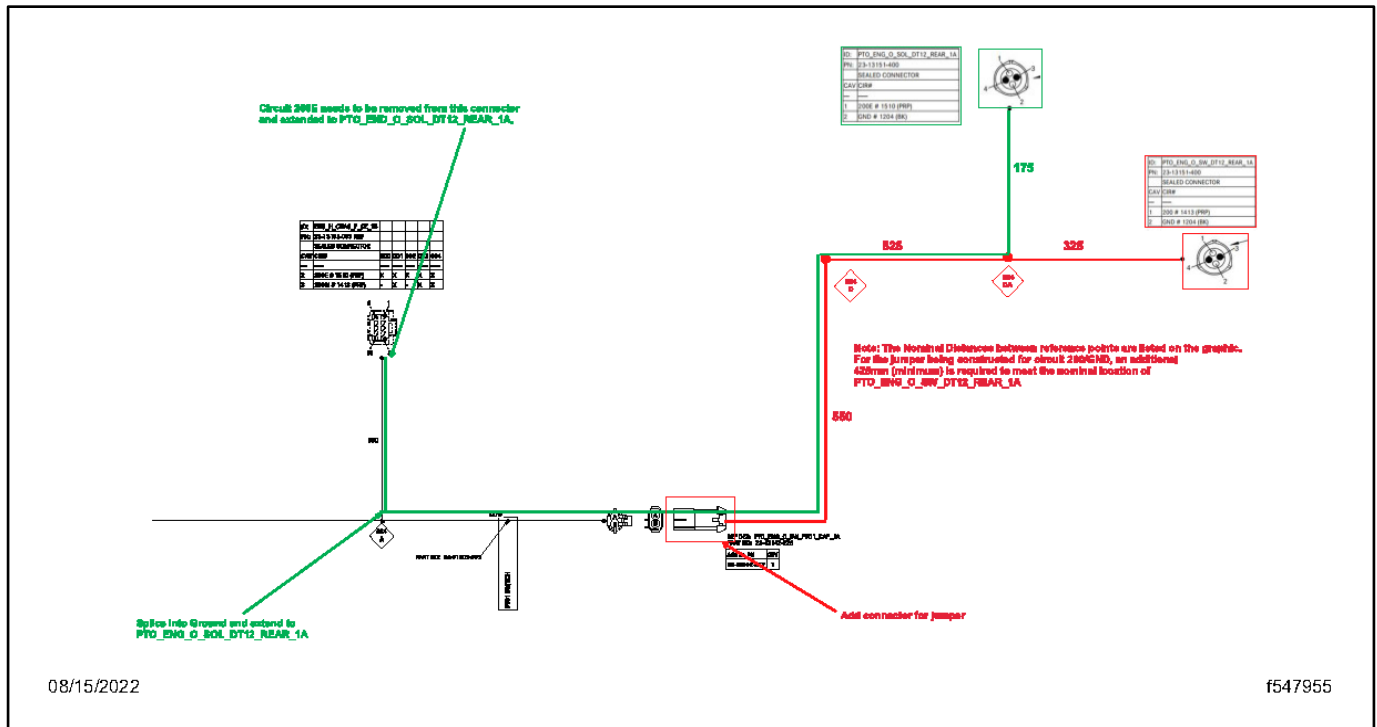
4. Remove cap *PTO\_ENG\_O\_SW\_PT01\_CAP\_1A* and add connector 23-13142-227. Populate cavity 'A' with terminal 23-13213-130 or 23-13213-131 to use for circuit 200E expansion. See [Table 1](#) for a list of terminal and receptacle part numbers and their American wire gauge (AWG) values.

5. For circuit 200E, add approximately 39-1/2 in. (100 cm) and install into existing connector *PTO\_ENG\_0\_SOL\_DT12\_REAR\_1A* via cavity '1' with terminal 23-13208-160 or 23-13208-161.

6. Return to the two-pin connector *PTO\_ENG\_O\_SW\_PTO\_1A*. In the newly-installed connector 23-13142-227, populate cavity 'B' with terminal 23-13213-130 or 23-13213-131 to use for ground (circuit GND) expansion.

7. For circuit GND, add approximately 32-1/2 in. (82.5 cm) and install into existing connector *PTO\_ENG\_0\_SW\_DT12\_REAR\_1A* via cavity '2' with terminal 23-13208-160 or 23-13208-161. Cable, 14–16 AWG or 16–20 AWG, as required (AR).

Parts and Specialized Tools			
Part Number	Part Description	AWG	Quantity
23-13142-227	RCPT-2CA	–	1
23-13213-130	TERM-MALE,MP280S,0.5	16–20	1
23-13213-131	TERM-MALE.MP280S,2-3	12–14	1
23-13208-160	TERM-FEM,2.5S, 1.2(16	14–16	1
23-13208-161	TERMINAL-FEM.2.5MM S	16–20	1



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Fig. 1 PTO Wiring Procedure