Steiger® 370 / 420 / 470 / 500 / 540 / 580 / 620
Quadtrac® 470 / 500 / 540 / 580 / 620
Stage IV
Tractor

PIN JEEZ00000FF314001 and above

SERVICE MANUAL

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Powered rear axle - Torque

300 Series axles

Item	Metric value	U.S. value
Wheel to hub bolts	755 – 850 N·m	555 – 625 lb ft
Axle to frame mounting bolts (lubed)	665 – 745 N·m	490 – 550 lb ft
Driveshaft mounting bolts	115 – 129 N·m	85 – 95 lb ft

Item	Metric value	U.S. value
Final drive housing to differential housing mounting bolts	284 – 298 N·m	209 – 220 lb ft
Pinion cover mounting bolts	89 – 100 N·m	65 – 74 lb ft
Differential case cover mounting bolts (ring gear)	285 – 319 N·m	210 – 235 lb ft
Left hand differential bearing carrier bolts	89 – 100 N·m	65 – 74 lb ft
Park brake mounting bolts	234 – 269 N·m	173 – 198 lb ft
Park brake assembly bolts	54 – 61 N·m	40 – 45 lb ft
Brake retaining ring mounting bolts	89 – 100 N·m	65 – 74 lb ft
Differential pinion pin retainer bolts	75 – 83 N·m	54 – 61 lb ft
Bevel Pinion lube tube retaining clip bolt	24 – 30 N·m	18 – 22 lb ft
Bevel pinion yoke retaining bolt	377 – 677 N·m	278 – 499 lb ft
Differential lock solenoid coil nut	7 – 9 N·m	5 – 7 lb ft

400 Series axles

Item	Metric value	U.S. value
Wheel to hub bolts	755 – 850 N·m	555 – 625 lb ft
Axle to frame mounting bolts (lubed)	665 – 745 N·m	490 – 550 lb ft
Driveshaft mounting bolts	115 – 129 N·m	85 – 95 lb ft

Item	Metric value	U.S. value
Final drive housing to differential housing mounting bolts	284 – 298 N·m	209 – 220 lb ft
Pinion cover mounting bolts	89 – 100 N·m	65 – 74 lb ft
Differential case mounting bolts (ring gear)	284 – 298 N·m	209 – 220 lb ft
Left hand differential bearing carrier bolts	89 – 100 N·m	65 – 74 lb ft
Park brake mounting bolts	234 – 269 N·m	173 – 198 lb ft
Park brake assembly bolts	54 – 61 N·m	40 – 45 lb ft
Brake retaining ring mounting bolts	89 – 100 N·m	65 – 74 lb ft
Differential pinion gear pin bolts	75 – 83 N·m	54 – 61 lb ft
Bevel pinion lube tube retaining clip bolt	24 – 30 N·m	18 – 22 lb ft
Bevel pinion yoke retaining bolt	377 – 677 N·m	278 – 499 lb ft
Differential lock solenoid coil nut	7 – 9 N·m	5 – 7 lb ft

500 Series axle

Item	Metric value	U.S. value
Wheel to hub bolts	755 – 850 N·m	555 – 625 lb ft
Axle to frame mounting bolts (lubed)	665 – 745 N·m	490 – 550 lb ft
Driveshaft mounting bolts	115 – 129 N·m	85 – 95 lb ft

Item	Metric value	U.S. value
Final drive housing to differential housing mounting bolts	284 – 298 N·m	209 – 220 lb ft
Pinion cover mounting bolts	284 – 298 N·m	209 – 220 lb ft
Differential case mounting bolts (ring gear)	284 – 298 N·m	209 – 220 lb ft
Left hand differential bearing carrier bolts	89 – 100 N·m	65 – 74 lb ft

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Connector X-9182 - Fuel filter heater

CONNECTOR X-9182 - Fuel filter heater			
PIN NUMBER	**WIRE NUMBER**	**CIRCUIT REFERENCE**	**ELECTRICAL SCHEMATIC FRAME**
1	VE-242	Supply voltage from Fuel heater relay K-9100	**SHEET 02**
2	VE-243	Ground	

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4191 - Rear remote no. 2 - no communications

NOTE: *When the cause of the error code has been rectified, clear the error code and test the system for normal operation.*

Possible failure modes:

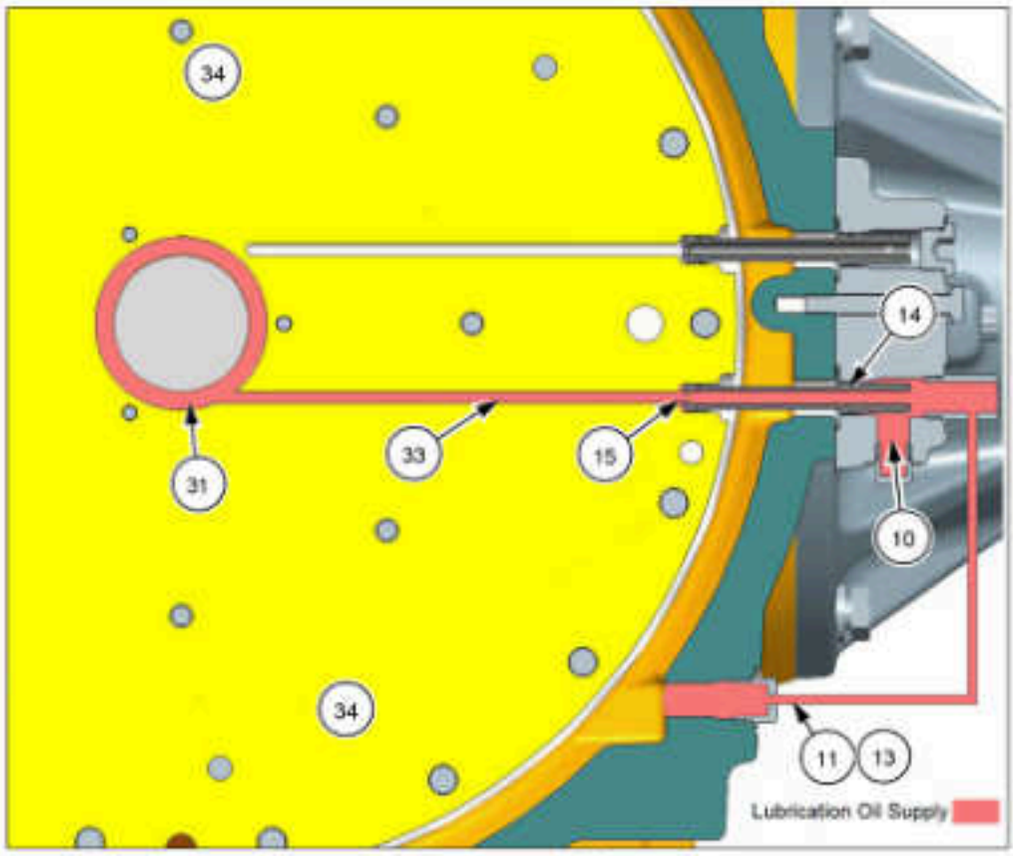
1. Can bus communication problem
2. Faulty connector
3. Faulty harness
4. Faulty electro hydraulic remote (EHR) valve

Solution:

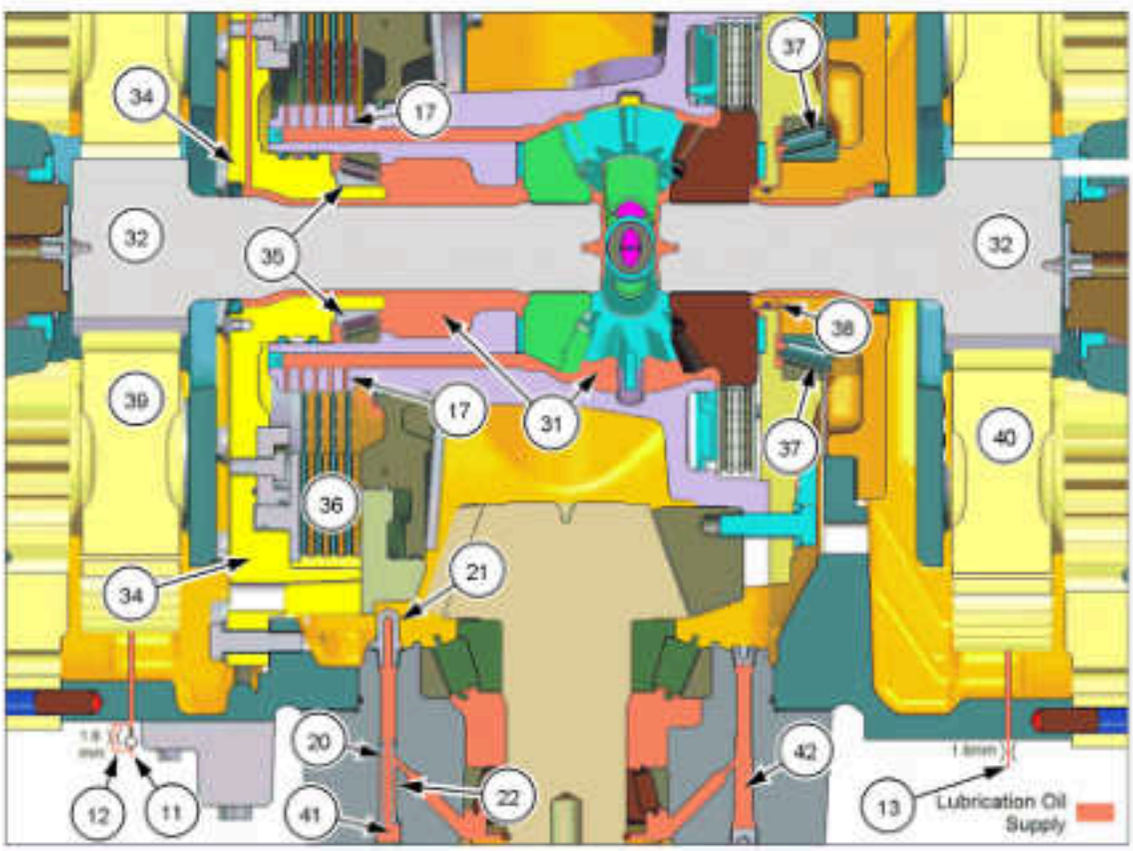
1. Check for other error codes related to can bus communication.
   A. Follow troubleshooting procedures for can bus related error codes.
   B. No can bus error codes, continue to step **2**
2. Check the EHR valve #2 connector.
   A. Ensure the connector is connected, not damaged, the pins are in the correct position and that the fit is tight. Repair or replace as required.
   B. If the connector is okay, continue to step **3**
3. Check for **12 V**.
   A. Disconnect EHR valve #2 connector. Turn the ignition switch ON. Measure the voltage between EHR valve #2 connector pin 1 and ground. If the voltage indicated is not approximately **+12 V**, repair or replace the harness as required.
   B. If the voltage indicated is approximately **+12 V**, continue to step. **4**
4. Check for an open circuit.
   A. Turn the ignition switch OFF. Disconnect the bulkhead cab connector C002. Measure the resistance between connector:
   Remote valve connector pin 1 and C002 pin 5
   Remote valve connector pin 2 and C002 pin 19
   Remote valve connector pin 3 and C002 pin 17
   Remote valve connector pin 4 and ground
   If the resistance indicated is greater than **5 Ohms**, repair or replace the harness as required.
   B. If the resistance indicated is less than **5 Ohms**, continue to step **5**
5. Check for a short to ground. Ignition switch OFF.
   A. Check between connector:
   Remote valve connector pin 1 and ground
   Remote valve connector pin 2 and ground
   Remote valve connector pin 3 and ground
   If a short to ground is indicated, repair or replace the harness as required.
   B. If the harness is okay, download the correct level of software into the EHR valve and configure the EHR valve. If the fault is still present remove, replace, and configure the EHR valve pilot head.

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Wiring harnesses - Electrical schematic sheet 80 - CAN data bus - vehicle bus 2 (55.100.DP-C.20.E.80)

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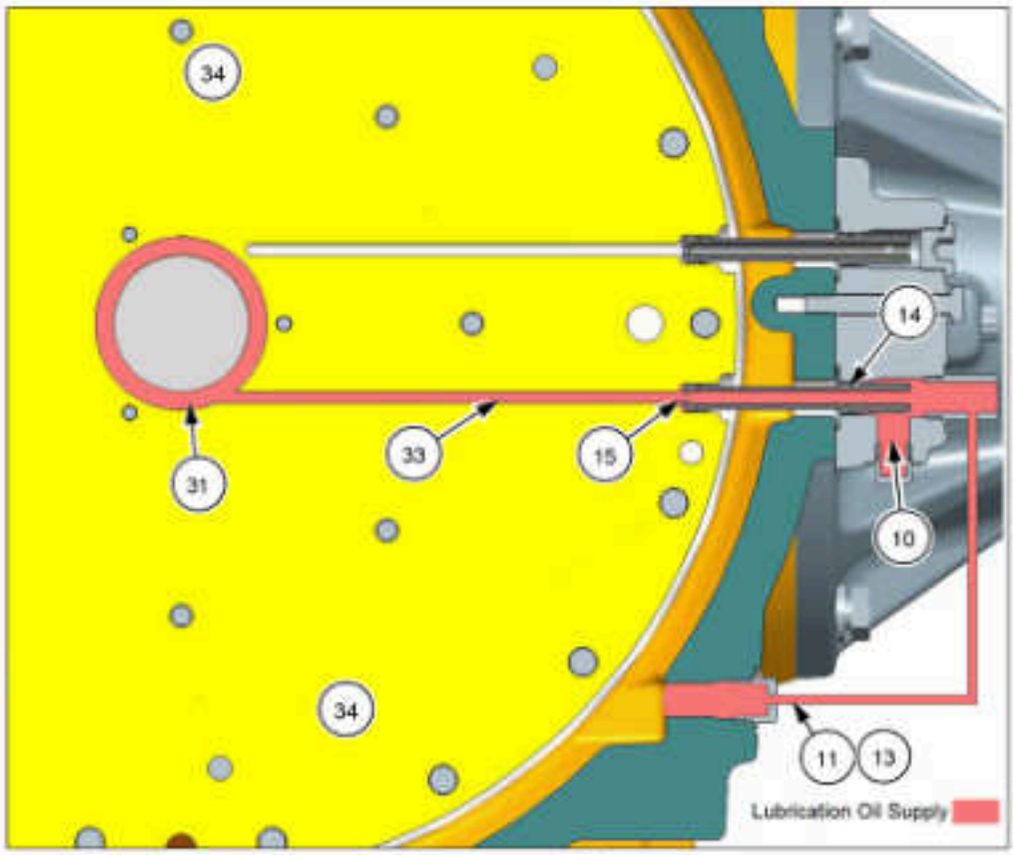


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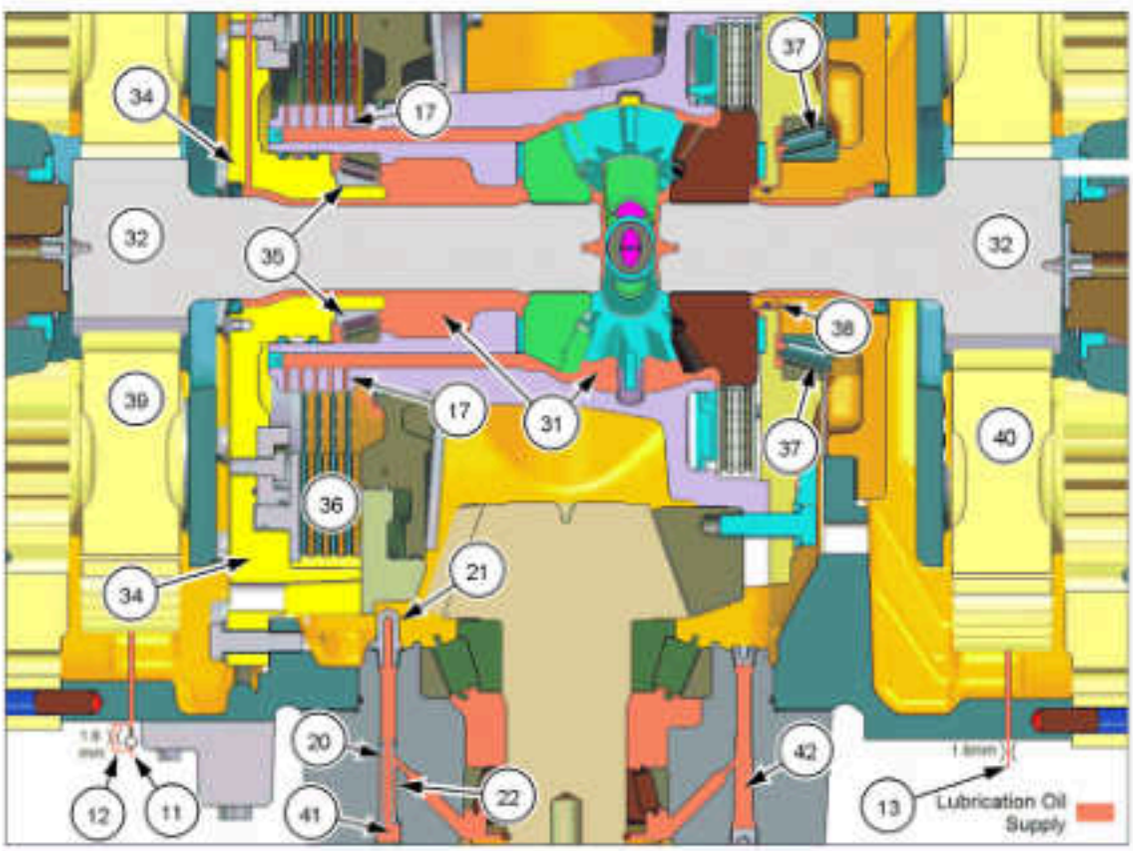


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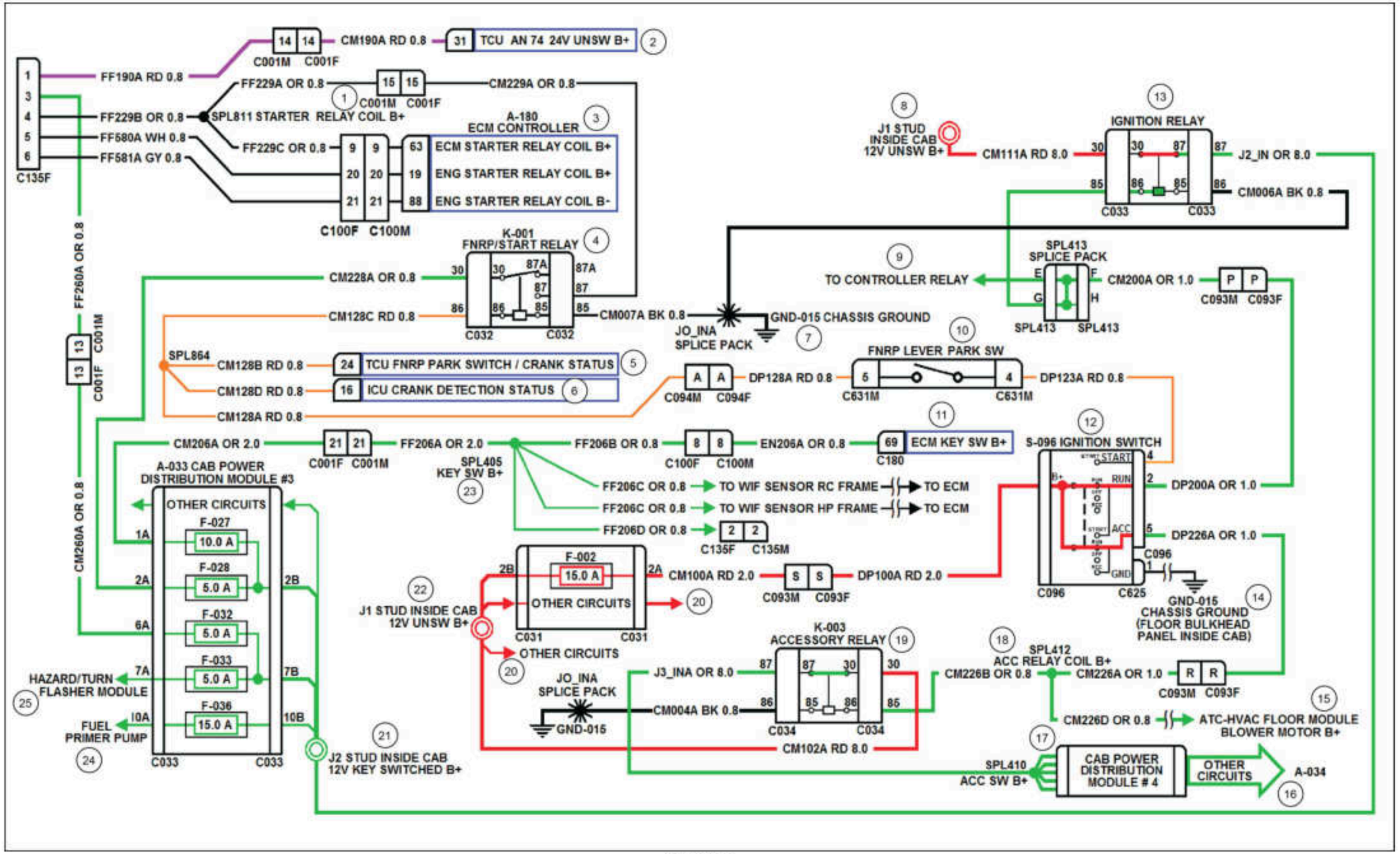


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