SERVICE MANUAL

T9.435 / T9.480 / T9.530 / T9.565 / T9.600 / T9.645 / T9.700

Stage IV

Tractor

PIN JEEZ00000FF405001 and above

Part number 48193210
1st edition English
November 2017

NEW HOLLAND AGRICULTURE

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Differential - General specification - 400 Series axles

T9.435	WE
T9.480	WE
T9.530	WE
T9.565	WE

Axle specifications

Item	Metric value	U.S. value
Axle dry weight (approximate)	**1502 kg**	**3206 lb**
Axle bar length	**3035 mm**	**120 in**
Bar diameter: 425 series axles	**127 mm**	**5.0 in**
Bar diameter: 450 series axles	**127 mm**	**5.0 in**
Overall reduction ratio	25.4:1	25.4:1
Bevel pinion bearing preload (rolling)	**6 – 20 N·m**	**55 – 180 lb in**
Differential bearing preload (rolling)	**6 – 13 N·m**	**55 – 120 lb in**
Axle shaft bearing preload (rolling)	**20 – 27 N·m**	**180 – 240 lb in**
Bevel ring/pinion gear backlash	**0.2 – 0.3 mm**	**.008 – .012 in**
Drive yoke to pinion shaft end clearance	**0.1 – 0.2 mm**	**.005 – .007 in**
Oil type	**NEW HOLLAND AMBRA MULTI G™ HYDRAULIC TRANSMISSION OIL**	

Differential - General specification - 500 Series axles

T9.600	WE
T9.645	WE
T9.700	WE

Axle specifications

Item	Metric value	U.S. value
Axle dry weight (approximate)	**1715 kg**	**3780 lb**
Ring/pinion gear reduction	2.789:1	2.789:1
Final drive reduction	9.032:1	9.032:1
Overall reduction ratio	25.194:1	25.194:1
Bar diameter	**115 mm**	**4.5 in**
Bar length	**3036 mm**	**120 in**
Bevel pinion bearing preload (rolling)	**6 – 20 N·m**	**55 – 120 lb in**
Differential bearing preload (rolling)	**6 – 13 N·m**	**55 – 120 lb in**
Axle shaft bearing preload (rolling)	**20 – 27 N·m**	**180 – 240 lb in**
Bevel ring/pinion gear backlash	**0.2 – 0.3 mm**	**.008 – .012 in**
Drive yoke to pinion shaft end clearance	**0.1 – 0.2 mm**	**.005 – .007 in**
Oil type	**NEW HOLLAND AMBRA MULTI G™ HYDRAULIC TRANSMISSION OIL**	

Differential - General specification - 600 Series axles

T9.645	WE
T9.700	WE

Axle specifications

Item	Metric value	U.S. value
Axle dry weight (approximate)	**2170 kg**	**4784 lb**
Ring/pinion gear reduction	2.789:1	2.789:1
Final drive reduction	9.032:1	9.032:1
Overall reduction ratio	25.194:1	25.194:1
Bar diameter	**140 mm**	**5.5 in**
Bar length	**3040 mm**	**120 in**
Bevel pinion bearing preload (rolling)	**6 – 20 N·m**	**50 – 180 lb in**

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9. Check the ECU A-9000 ground circuits.

   Place the key switch S-9103 in the OFF position.

   Use a multimeter to check for continuity on the vehicle interface (VE) harness side of the vehicle plug:

From	To	Value
X-9001 pin 3	chassis ground	There should be continuity.
X-9001 pin 5	chassis ground	There should be continuity.
X-9001 pin 28	chassis ground	There should be continuity.
X-9001 pin 52	chassis ground	There should be continuity.
X-9001 pin 75	chassis ground	There should be continuity.

   A. If there is continuity on all five checks, check the ECU A-9000 for the appropriate software and re-flash, if necessary.

   B. If there is no continuity on one or more of the checks, use the appropriate vehicle electrical schematics to locate and repair the failure.

10. Visually inspect the relevant harnesses and connectors for damage, bent or dislocated pins, corroded terminals, or broken wires. Verify that the connectors are fully installed. Flex the harnesses involved to reveal intermittent breaks or shorts in the wiring concerned. Operate the machine while you monitor the display.

    A. If you find damage or the display indicates other than normal display readings, then repair the damage discovered during the inspection or locate and repair the other than normal display condition and verify that the error has been resolved.

    B. If you do not find damage and the display indicates only normal readings, then erase the fault code and continue operation.

Wiring harnesses - Electrical schematic sheet 02 - Engine control unit (ECU) power and vehicle inputs/outputs (engine schematics) (55.100.DP-C.20.E.02)
Wiring harnesses - Electrical schematic sheet 06 - Fuel injection (engine schematics) (55.100.DP-C.20.E.06)

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4312 - Rear remote no. 6 - internal position sensor faulty

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

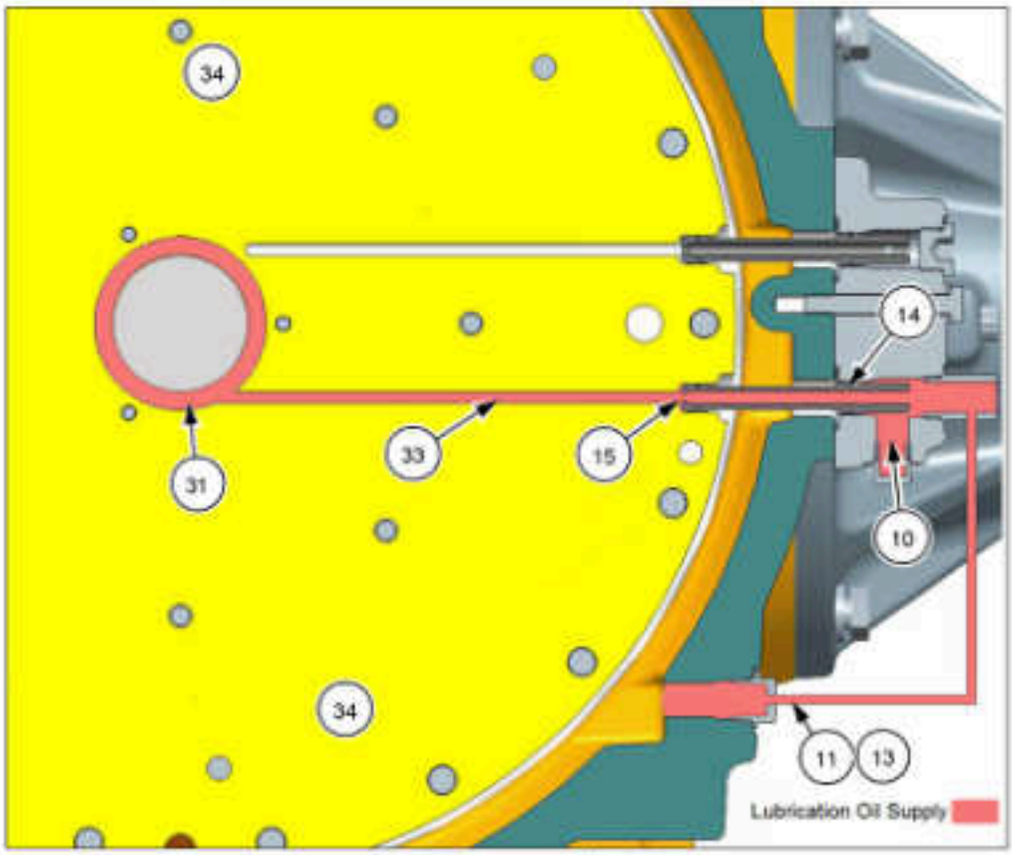
Possible failure modes:

1. Faulty spool position potentiometer
2. Faulty electro hydraulic remote (EHR) pilot head

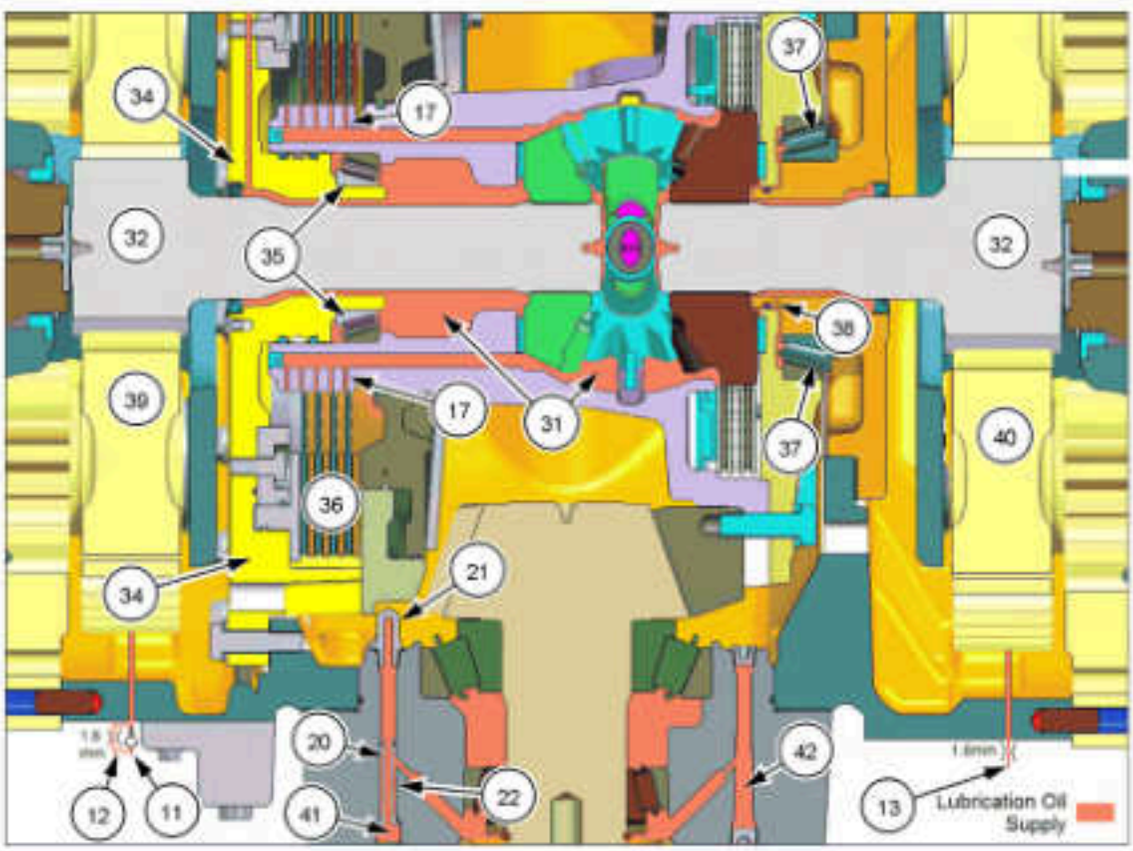
Solution:

1. Check for other EHR error code(s).
   A. Make a note of the error code(s), clear the error code(s) and test the system for normal operation.
   B. If the fault is still present, continue to step **2**
2. Download the correct level of software and configure the EHR valve.
   A. System operation normal. No fault codes recorded. Troubleshooting is complete.
   B. If the fault reoccurs, remove, replace, and configure the EHR valve pilot head.

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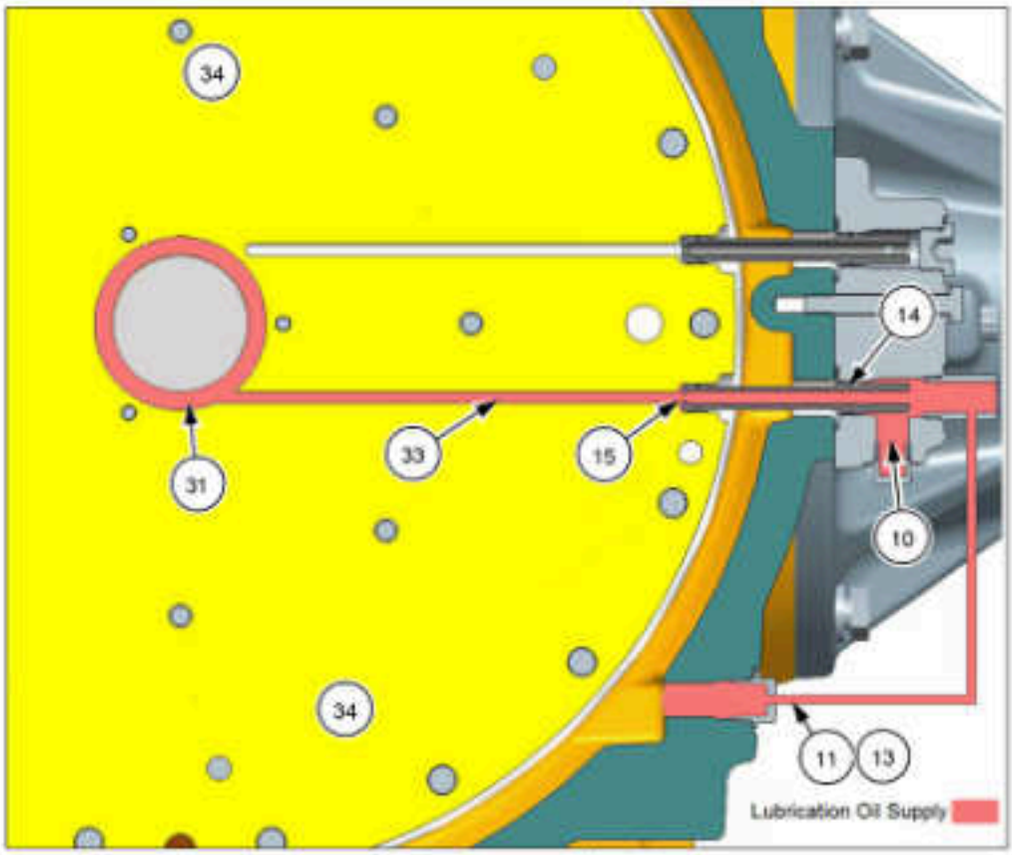


RAIL HTR00567FA 12

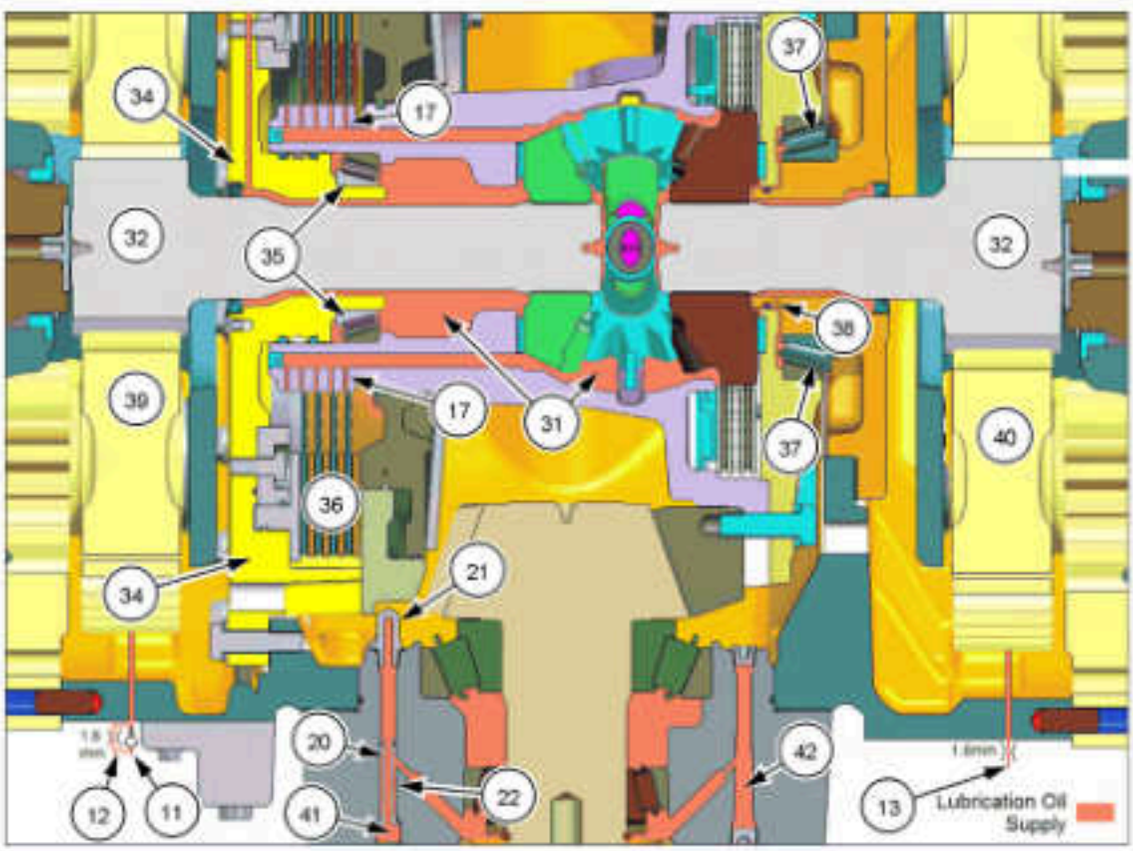


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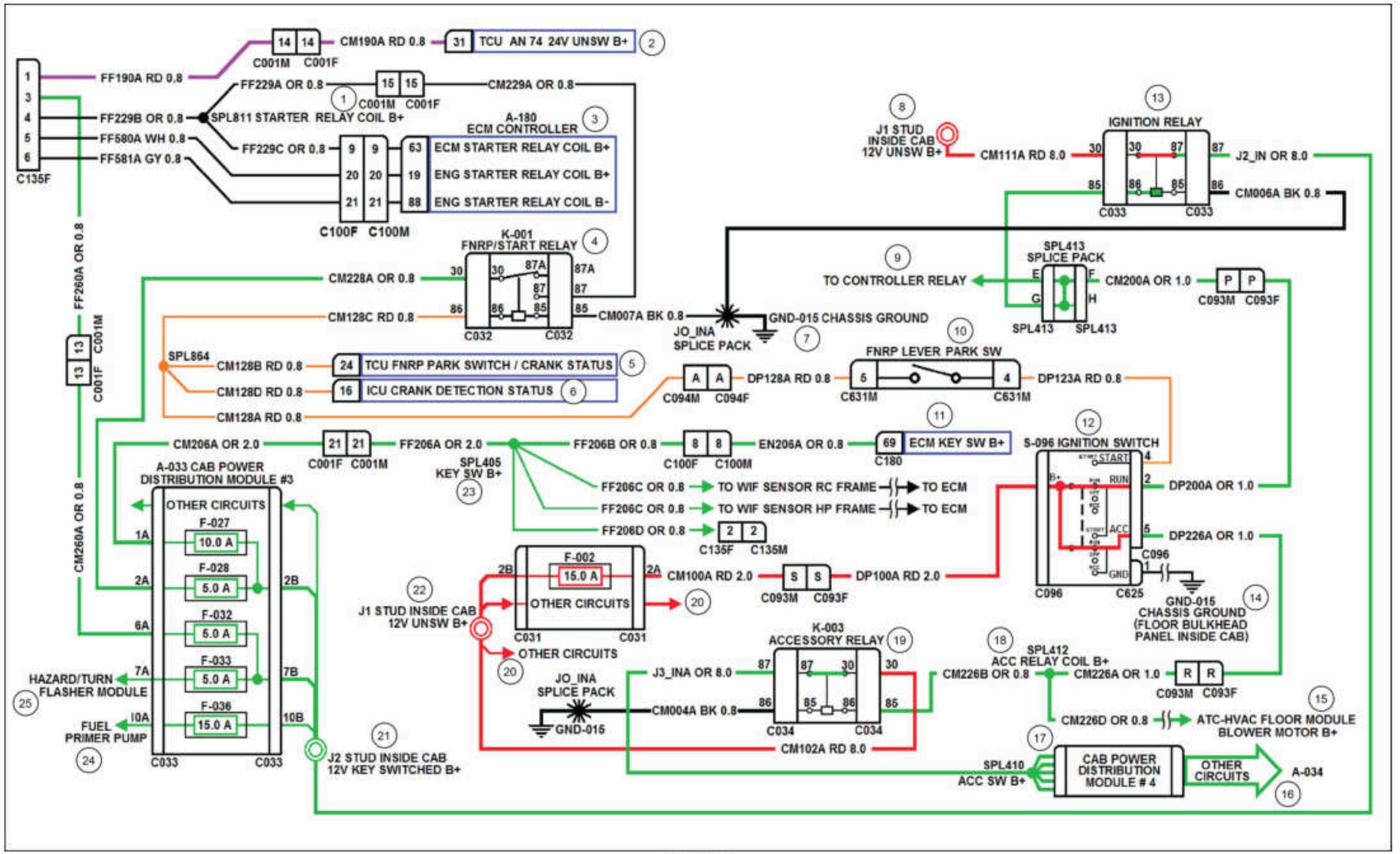


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