Magnum™ 250
Magnum™ 280
Magnum™ 310
Magnum™ 340
Magnum™ 310 Rowtrac™
Magnum™ 340 Rowtrac™
Powershift Transmission (PST)
Tractor

PIN ZHRF04001 and above

SERVICE MANUAL

Part number 51431500
1st edition English
February 2018

CASE IH AGRICULTURE

MidWestTech | Case Magnum, Rowtrac 250, 280, 310, 340 PST Tractor Service Manual | Publication 51431500
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Maximum operating weights

Before the axle operating weight can be determined, the tractor must be ballasted to provide efficient field operation. Operating weight is determined by weighing the front axle of a ballasted tractor with all mounted equipment such as a loader (with no payload), spray tanks (empty), etc. with the front and rear implement in transport position.

Maximum front axle weights for fixed or suspended front axle up to **2235 mm** (**88 in**) tread width or **2540 mm** (**100 in**) dual mean tread are:

Magnum™ 250 and 280 with CNH 4.5 front axle	**4540 kg** (**10000 lb**)
Magnum™ 250, 280, and 310, w/CNH 4.75 axle	**6033 kg** (**13300 lb**)
Magnum™ 310 with CNH 5.0 front axle	**6337 kg** (**13970 lb**)
Magnum™ 340 and 380 with CNH 5.0 front axle	**7743 kg** (**17070 lb**)

For loader with full payload, full spray tanks, etc., with the front implement in the transport position and the rear implement on the ground with a tread width of **2032 mm** (**80 in**) 2030 mm (80 in) or less, and travel speeds not exceeding **16.1 km/h** (**10.0 mph**), the maximum front axle operating weights are:

Magnum™ 250, 280, and 310 w/CNH 4.75 axle	**8981.1 kg** (**19800 lb**)
Magnum™ 310 with CNH 5.0 front axle	**9979 kg** (**22000 lb**)

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Wiring harnesses - Electrical schematic sheet 25 - Lighting, head lamps

Type	Component	Connector / Link	Description
ECU	**A-051**	**X-045**	FUSE BLOCK X-045
Lamp	**E-005**	409MM	LEFT SIDE
Lamp	**E-006**	**X-409**	RH SIDE LIGHT
Lamp	**E-007**	**X-076**	LH HEADLIGHT
Lamp	**E-008**	410M	CENTER
Lamp	**E-009**	**X-410**	CENTER LIGHT
Lamp	**E-010**	**X-004**	RH HEADLIGHT
Lamp	**E-011**	411M	RH SIDE
Lamp	**E-013**	**X-411**	LH SIDE LIGHT
Lamp	**E-078**	**X-1FD**	LEFT HID BALLAST
Lamp	**E-079**	**X-1FE**	CENTER HID BALLAST
Lamp	**E-080**	**X-1F**	RIGHT HID BALLAST
Fuse	**F-072**		SIDE LIGHTS
Fuse	**F-073**		CENTER LIGHTS
Fuse	**F-074**		LT HIGH BEAM
Fuse	**F-075**		RT HIGH BEAM
Fuse	**F-076**		LT LOW BEAM
Fuse	**F-077**		RT LOW BEAM
Speaker	**H-006**	**X-412BB X-412AA**	HORN
Relay	**K-003**	**X-042**	LOW BEAM
Relay	**K-005**		HIGH BEAM
Relay	**K-006**		SIDE
Relay	**K-010**		CENTER
Switch	**S-017**	**X-110A X-110B**	CENTER WORK LIGHT SWITCH
Connector	X-004	**X-004**	RH HEADLIGHT
Connector	X-042	**X-042**	RELAY BLOCK
Connector	X-045	**X-045**	FUSE BLOCK X-045
Connector	X-076	**X-076**	LH HEADLIGHT
Connector	X-109	**X-109**	TO CAB HARNESS
Connector	X-110	**X-110**	TO CAB HARNESS
Connector	X-110A	**X-110A**	CENTER WORKLIGHT SW
Connector	X-110B	**X-110B**	CENTER WORKLIGHT SW
Connector	X-1F	**X-1F**	RIGHT HID BALLAST
Connector	X-1FD	**X-1FD**	LEFT HID BALLAST
Connector	X-1FE	**X-1FE**	CENTER HID BALLAST
Connector	X-264	**X-264**	RELAY BLOCK
Connector	X-409	**X-409**	RH SIDE LIGHT
Connector	X-410	**X-410**	CENTER LIGHT
Connector	X-411	**X-411**	LH SIDE LIGHT
Connector	X-412AA	**X-412AA**	HORN B+
Connector	X-412BB	**X-412BB**	HORN GND
Connector	X-857	**X-857**	DIODE HOLDER

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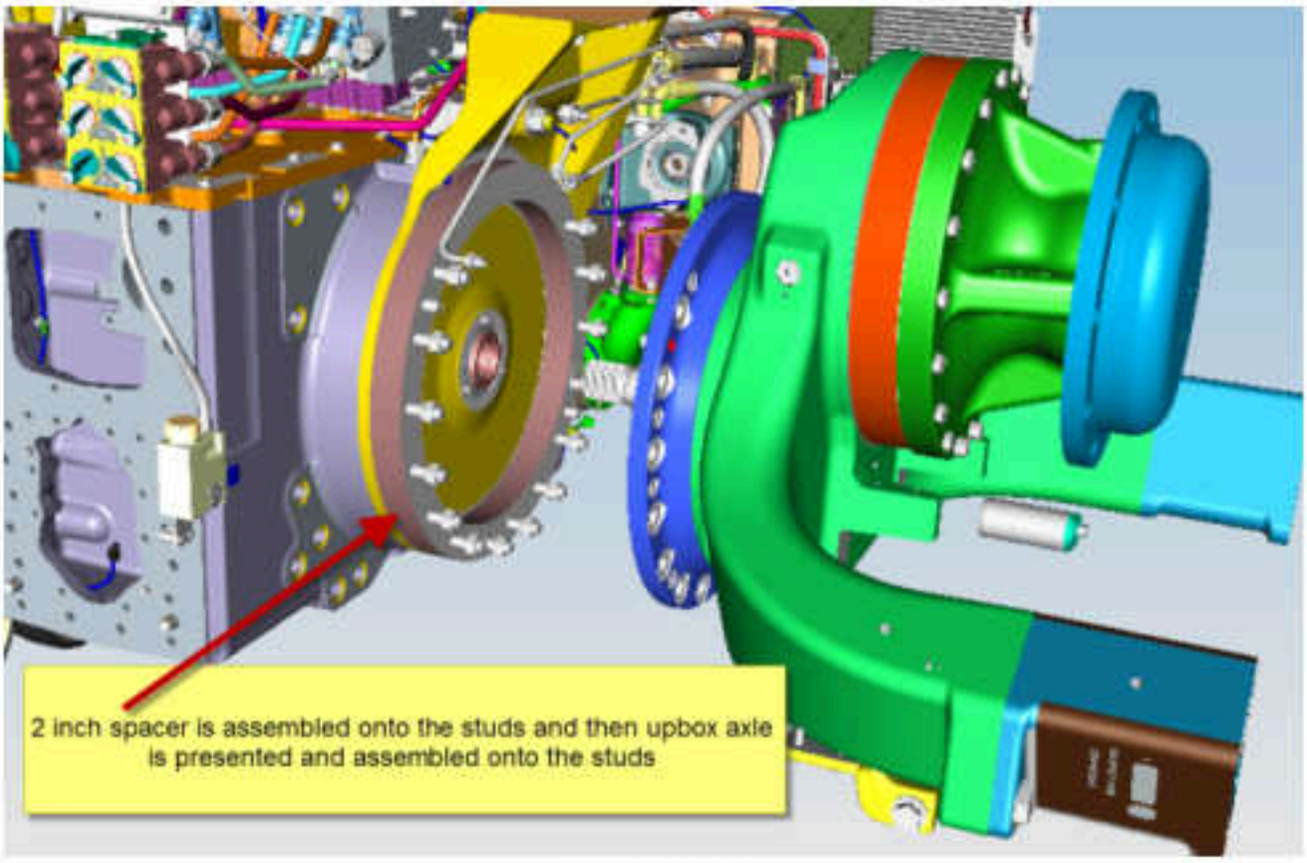
Clear all fault codes and test clutch operation.

A. Fault codes redisplays. Remove and replace the tractor control unit (TCU). Return unit to field operation.

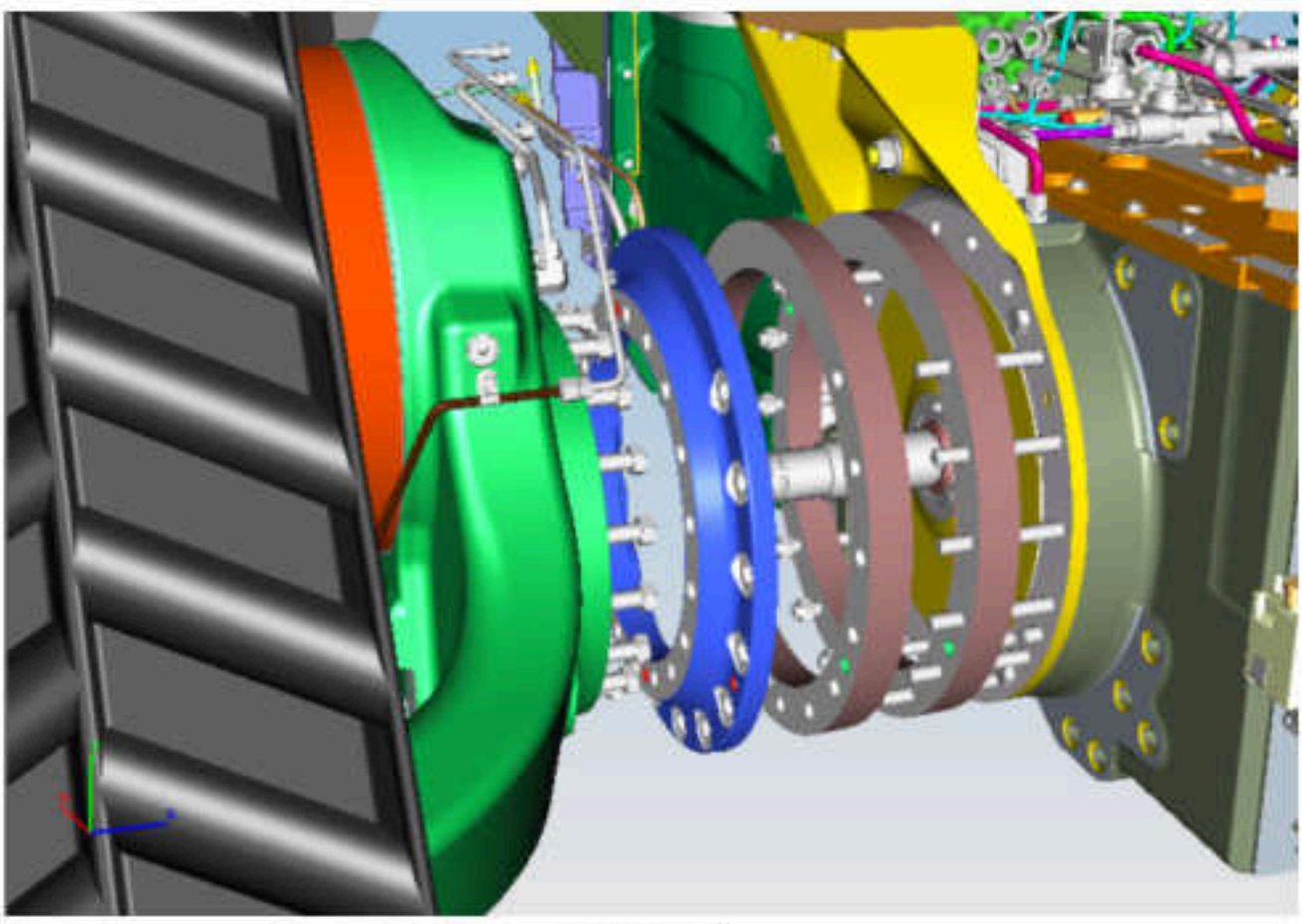
B. Fault code does not redisplay. Return unit to field operation.

Wiring harnesses - Electrical schematic sheet 13 - Transmission, solenoids and sensors (55.100.DP-C.20.E.13)

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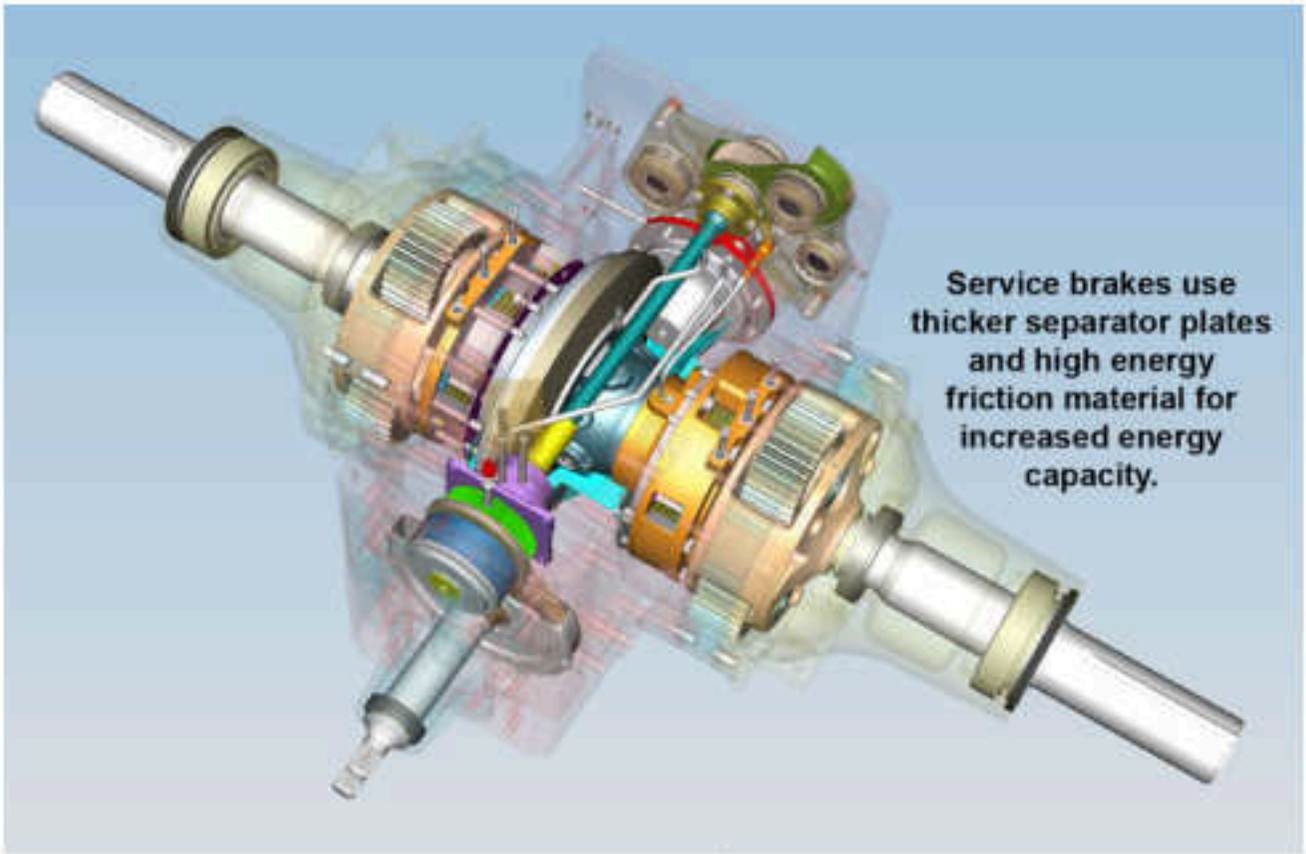


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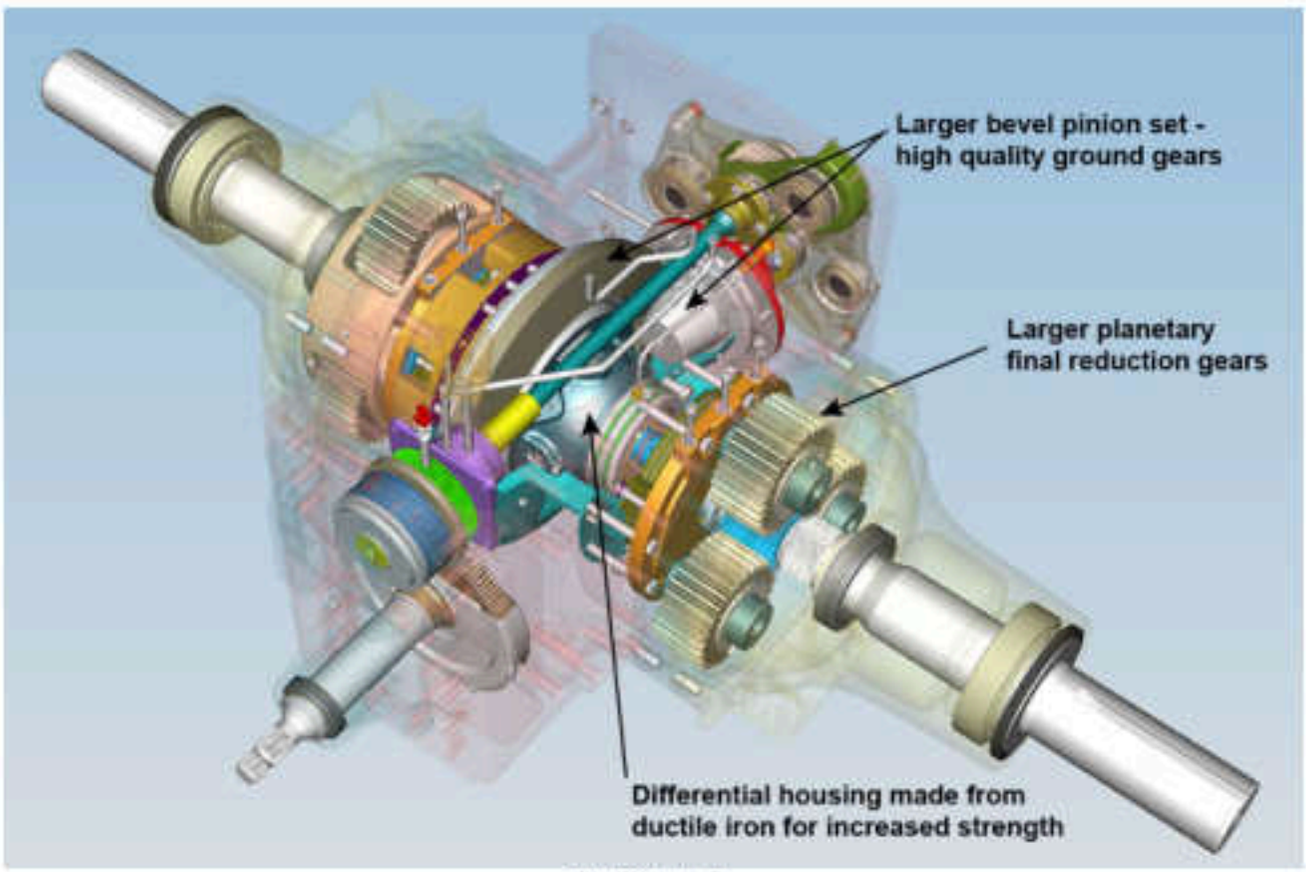
2032 mm (80 in) tread spacing

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Heavy Duty 5" Rear Axle and Final Drive

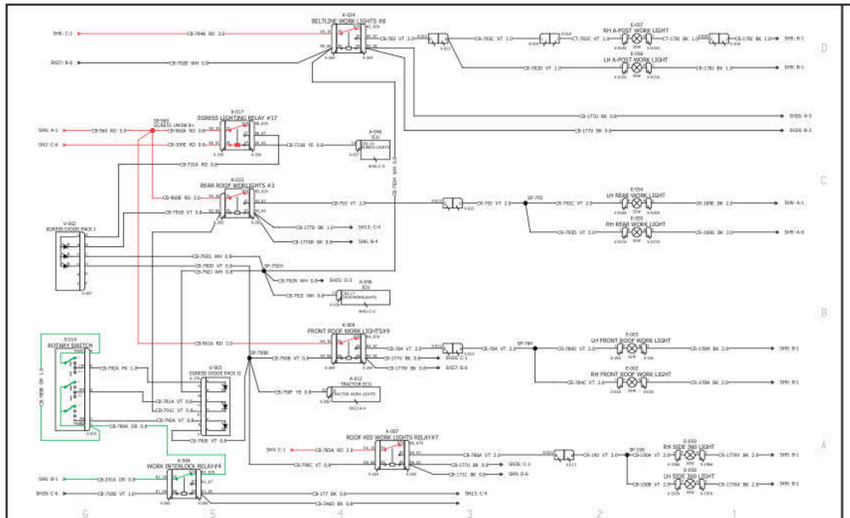


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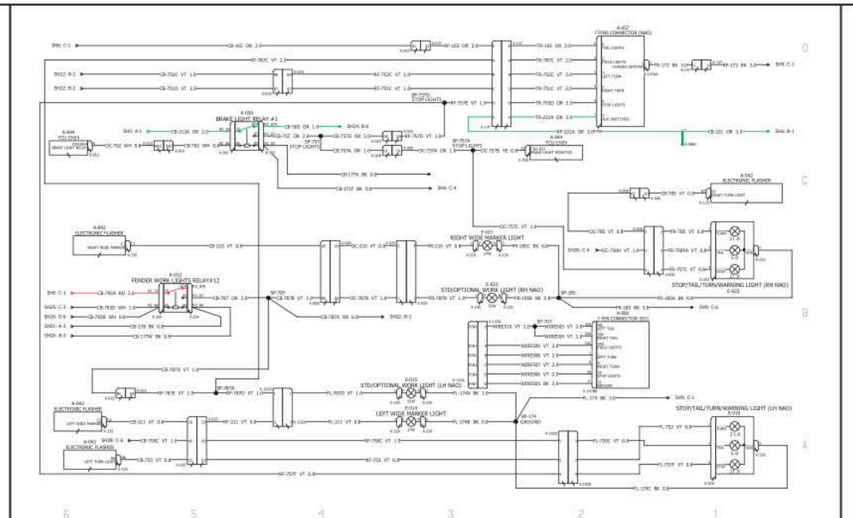


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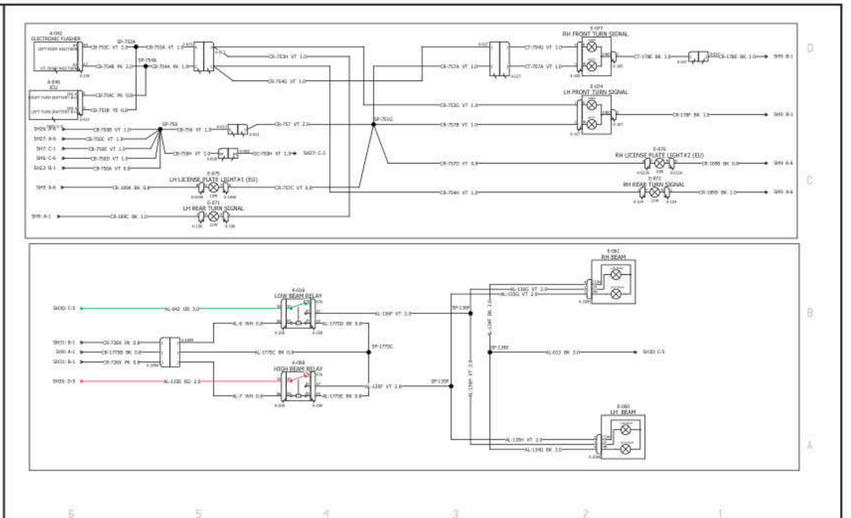
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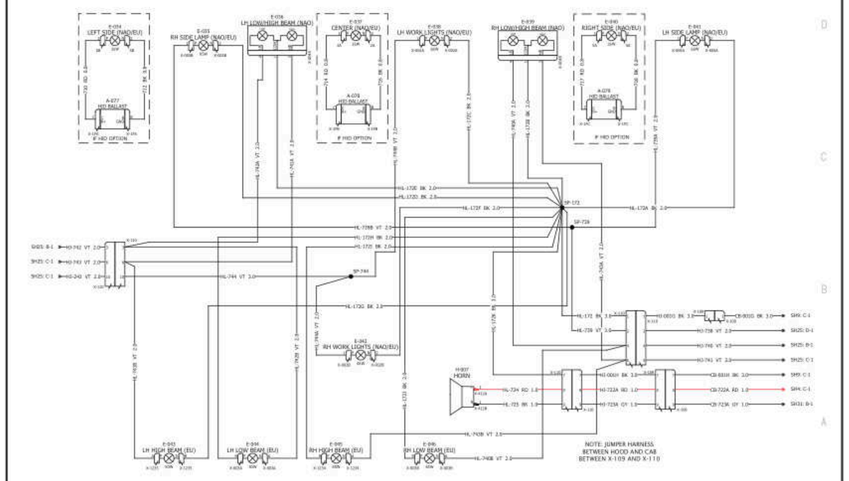
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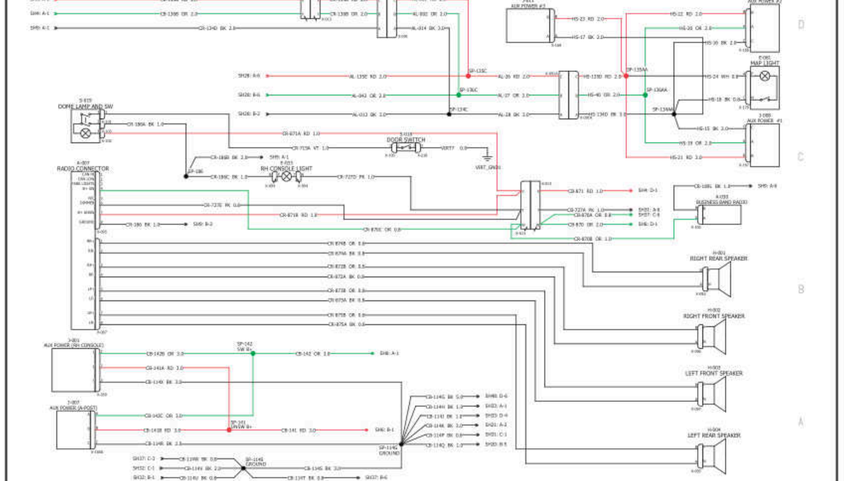
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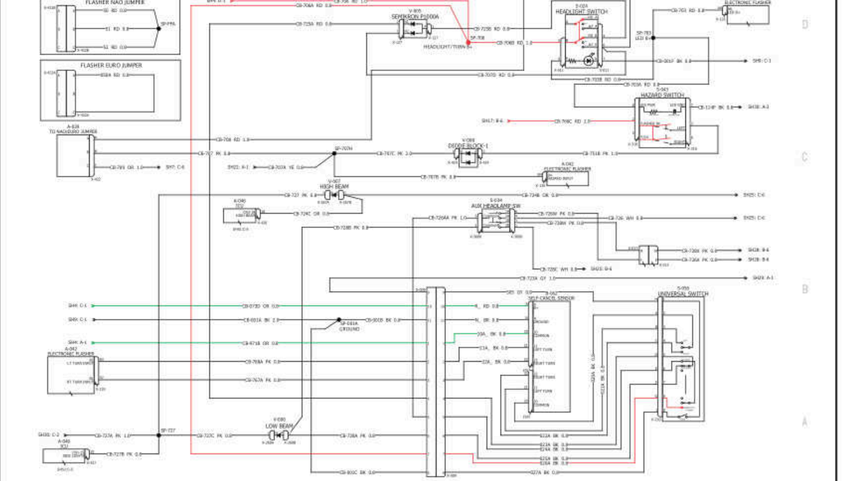
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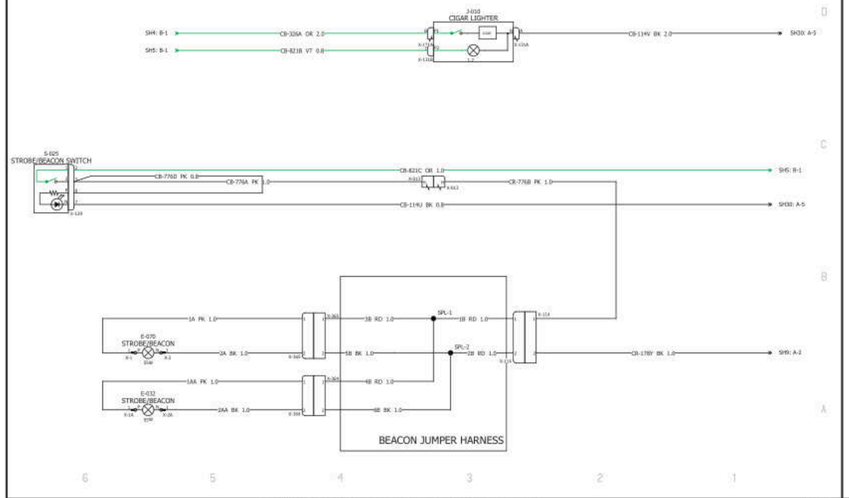
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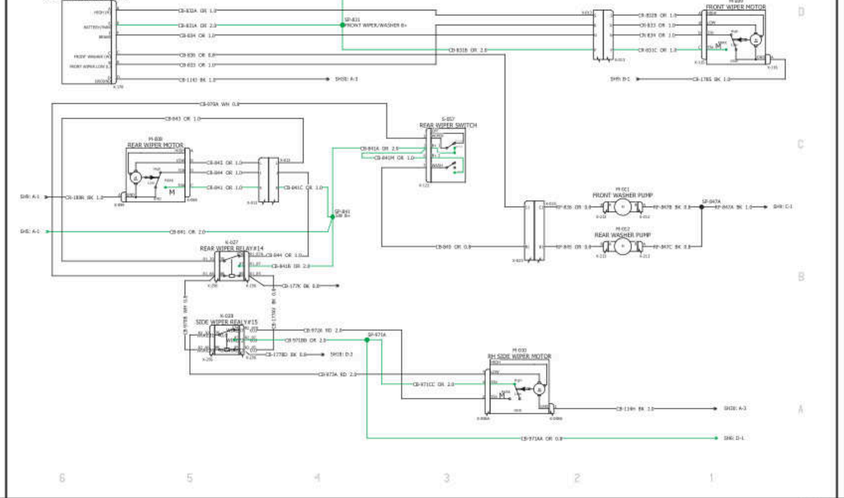
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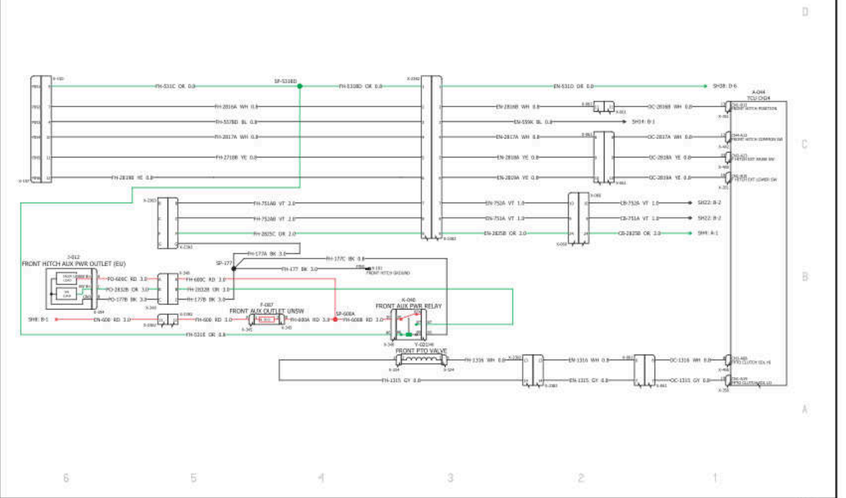
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