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WIRE COLOR CODE:

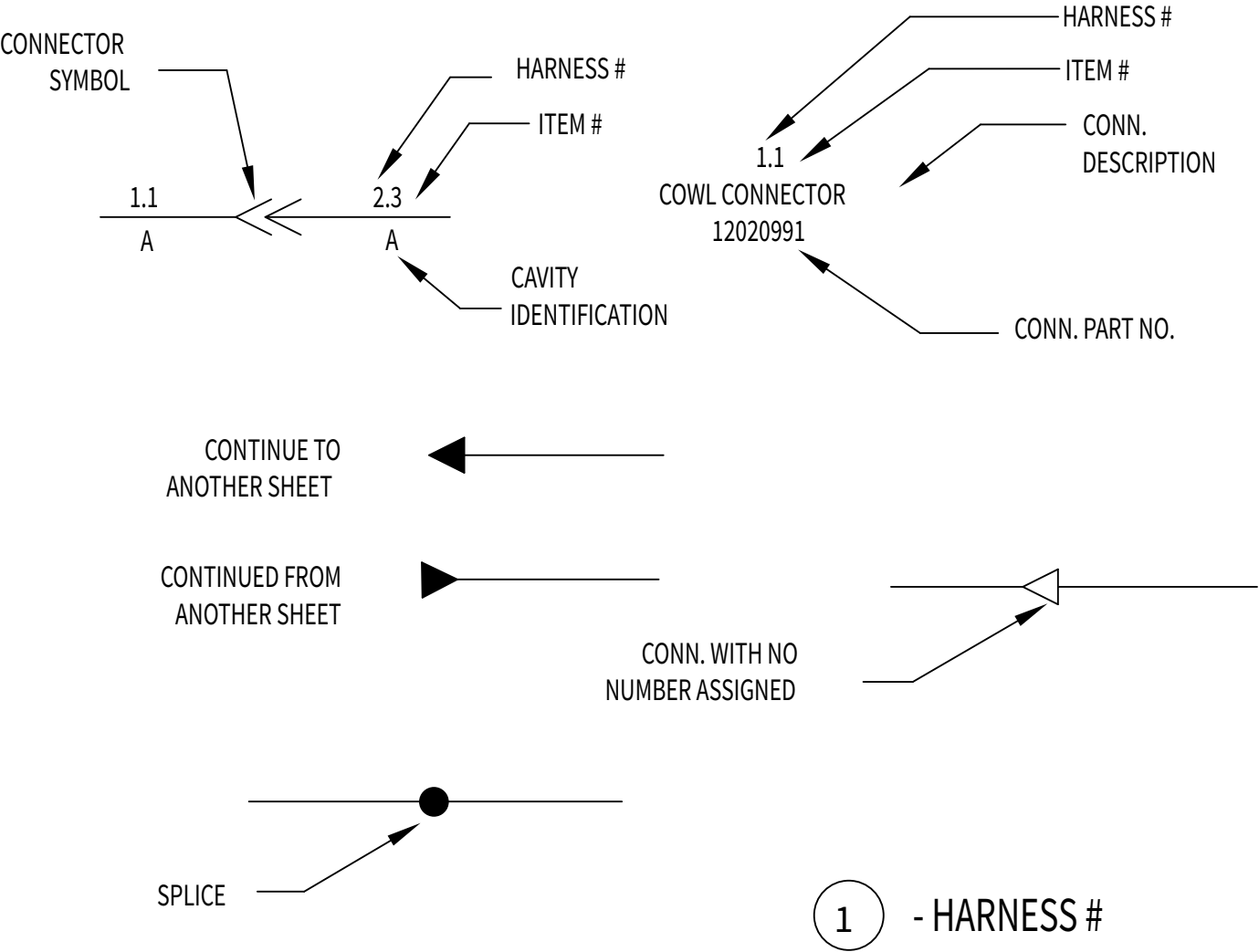
- BK - BLACK
- BR - BROWN
- DB - DARK BLUE
- DG - DARK GREEN
- GY - GRAY
- LB - LIGHT BLUE
- LG - LIGHT GREEN
- OR - ORANGE
- PK - PINK
- RD - RED
- YL - YELLOW
- VT - VIOLET
- WT - WHITE

WIRE GAUGE CHART:

- 18 - 18 GA - 0.8mm
- 16 - 16 GA - 1.0mm
- 14 - 14 GA - 2.0mm
- 12 - 12 GA - 3.0mm

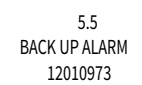
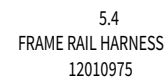
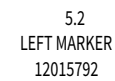
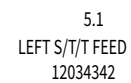
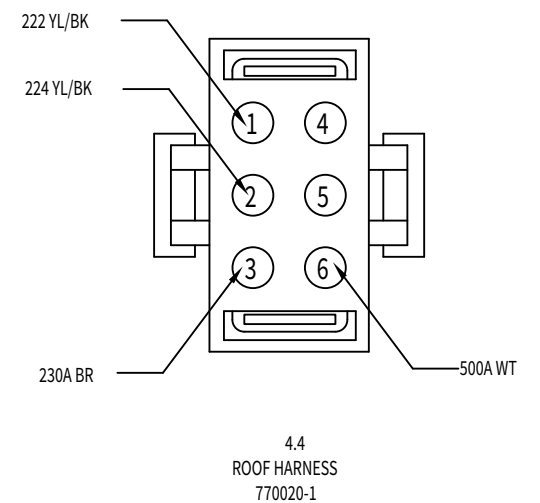
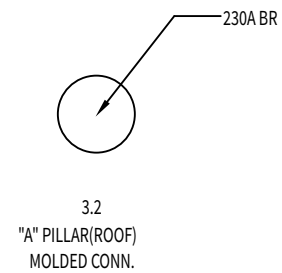
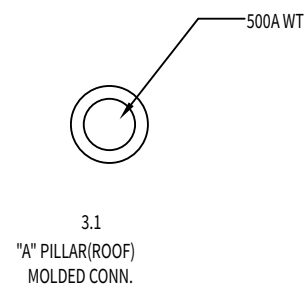
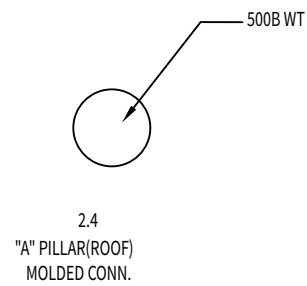
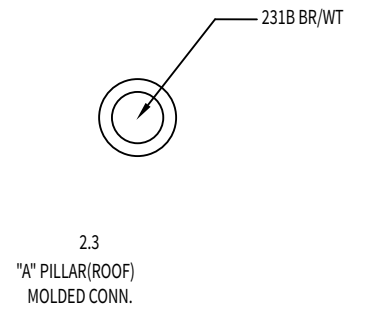
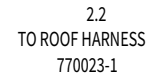
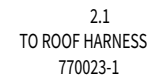
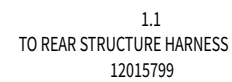
NOTES:

- 1) ALL CONNECTORS ARE SHOWN IN THE LOAD POSITION.
- 2) SPECIAL CUSTOMER OPTIONS MAY NOT BE COVERED BY THESE DIAGRAMS.



LEGEND	
BATT	HOT AT ALL TIMES
IGN	HOT IN RUN OR START
ACC	HOT IN ACC OR RUN

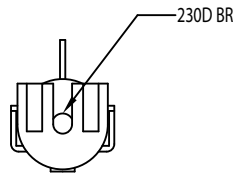
PAGE 2 OF 12								ENGINEER	DRAWN BY		Spartan Motors USA, Inc. 603 Earthway Blvd Bristol, N 46507	TITLE SCHEMATIC FREIGHTLINER MT45			
								---	JYD						
	A	RELEASE FOR PRODUCTION					515140					CHECKED BY	DATE		
	REV.	REVISIONS					AUTH	DATE	BY	CHECKED BY	APPROVED BY	RLC			
												RLC	02/17/17	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPARTAN MOTORS USA, INC. ANY REPRODUCTION IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF SPARTAN MOTORS USA, INC. IS PROHIBITED. DOCUMENT IS ELECTRONICALLY CONTROLLED. VERIFY REV PRIOR TO USE.	
												CAGE CODE	DWG. NUMBER		
												36MVO	58232644	A	



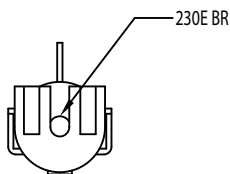
LEGEND

BATT	HOT AT ALL TIMES
IGN	HOT IN RUN OR START
ACC	HOT IN ACC OR RUN

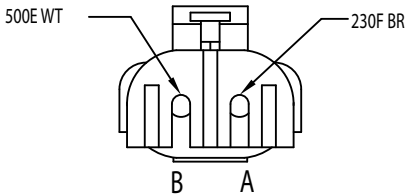
CONNECTOR VIEW



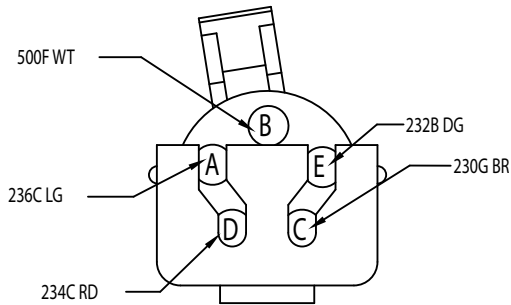
5.6
LICENSE PLATE LIGHT
12010996



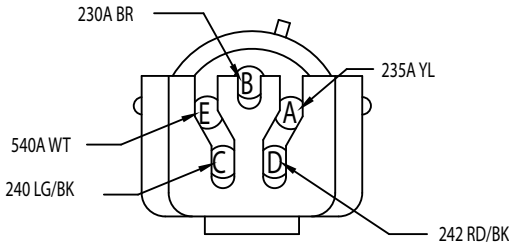
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12010996



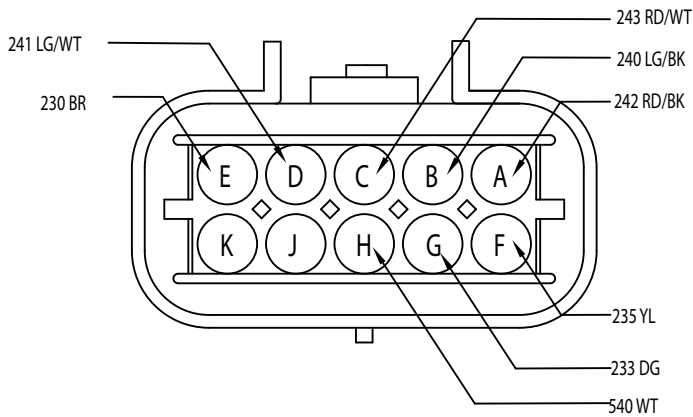
5.8
RIGHT MARKER
12015792



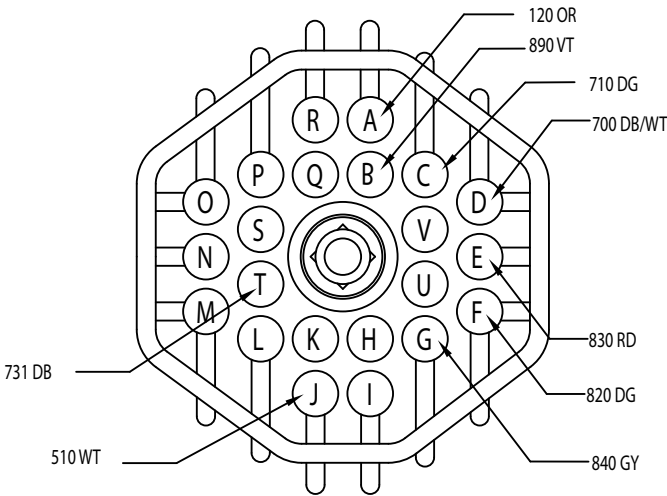
5.9
RIGHT S/T/T FEED
12034342



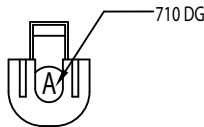
6.1
LEFT LAMP HARNESS
12065158



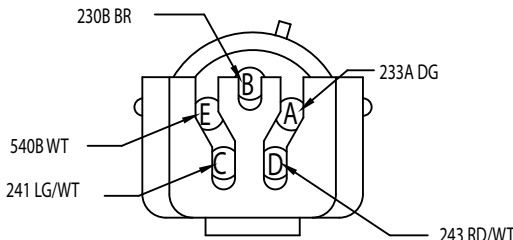
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TO HEADLIGHT JUMPER
15326661



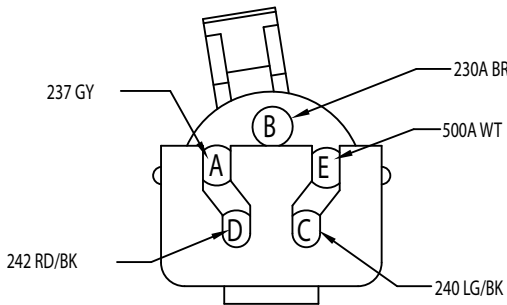
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TO COWL CONNECTOR
15492521



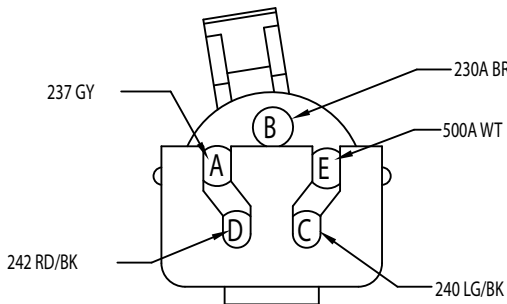
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A/C CONNECTOR
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6.9
RIGHT LAMP HARNESS
12065158



7.1/L
LEFT HEADLAMP DIST.
12034342

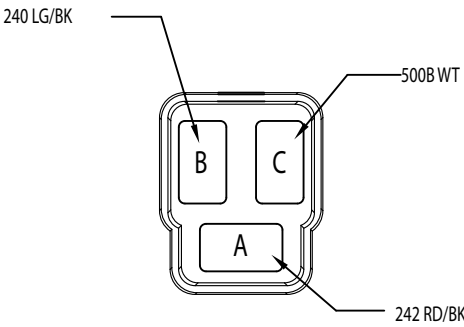


7.1/R
RIGHT HEADLAMP DIST.
12034342

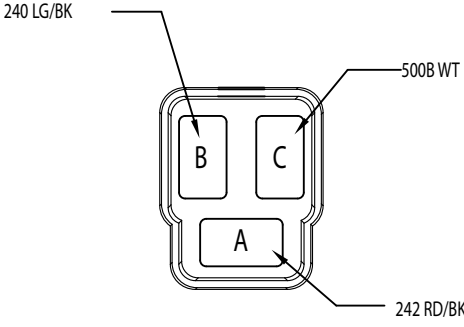
LEGEND	
BATT	HOT AT ALL TIMES
IGN	HOT IN RUN OR START
ACC	HOT IN ACC OR RUN

PAGE 4 OF 12										ENGINEER ---		DRAWN BY JYD				Spartan Motors USA, Inc. 603 Earthway Blvd Bristol, N 46507		TITLE SCHEMATIC FREIGHTLINER MT45	
A		RELEASE FOR PRODUCTION		515140		DATE		BY		CHECKED BY RLC		DATE 02/17/17				CAGE CODE 36MV0		DWG. NUMBER 58232644	
REV.		REVISIONS		AUTH						APPROVED BY								A	

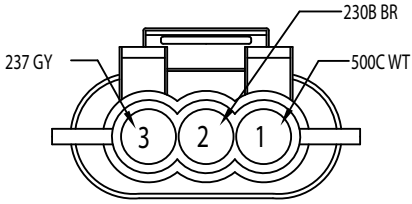
CONNECTOR VIEW



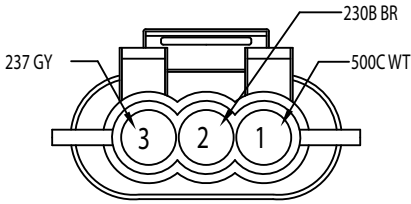
7.6/L
LEFT HEADLIGHT
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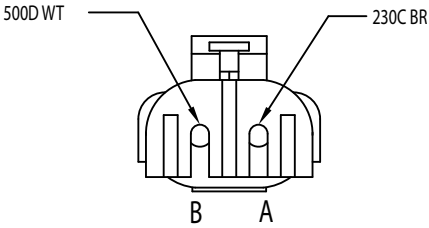
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RIGHT HEADLIGHT
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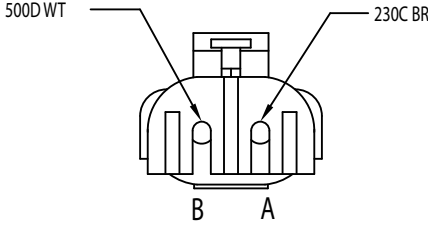
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LEFT TURN/MARKER LIGHT
282087-1



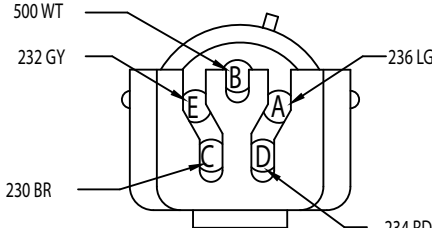
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RIGHT TURN/MARKER LIGHT
282087-1



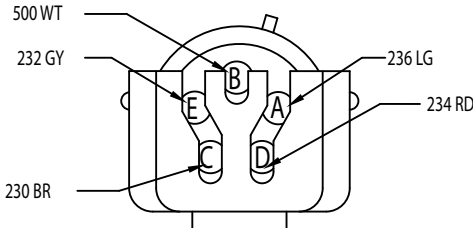
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LEFT SIDE MARKER LIGHT
12015792



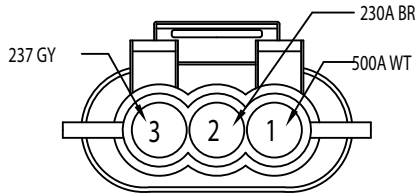
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RIGHT SIDE MARKER LIGHT
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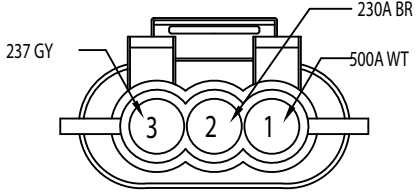
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LEFT S/T/T DIST.
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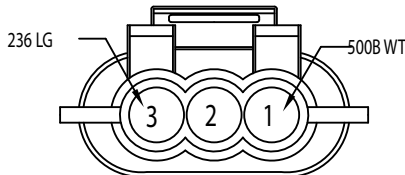
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RIGHT S/T/T DIST.
12065158



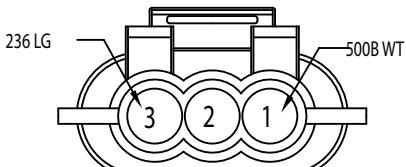
8.2/L
LEFT STOP/TAIL
282087-1



8.2/R
RIGHT STOP/TAIL
282087-1



8.3/L
LEFT BACK-UP
282087-1

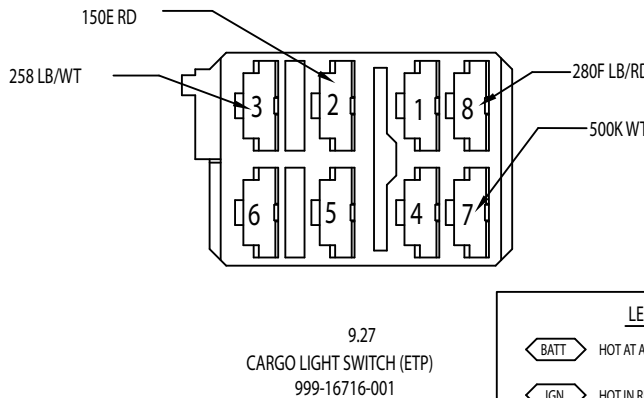
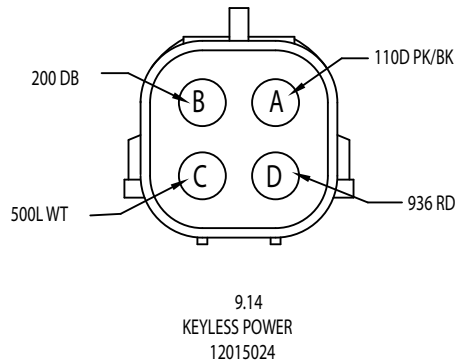
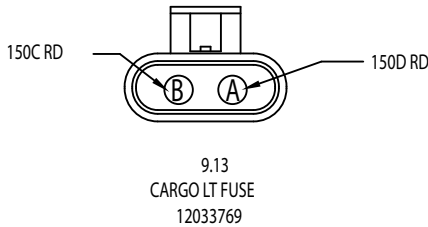
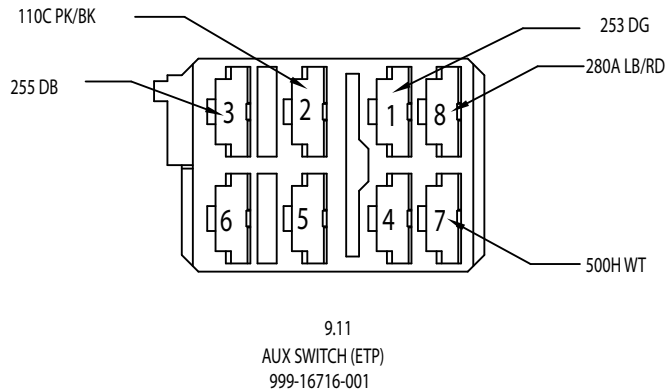
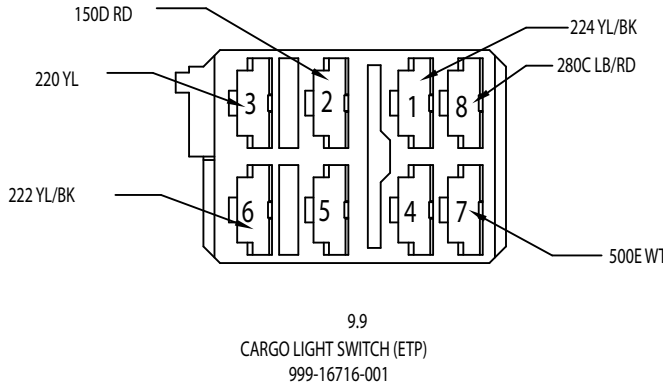
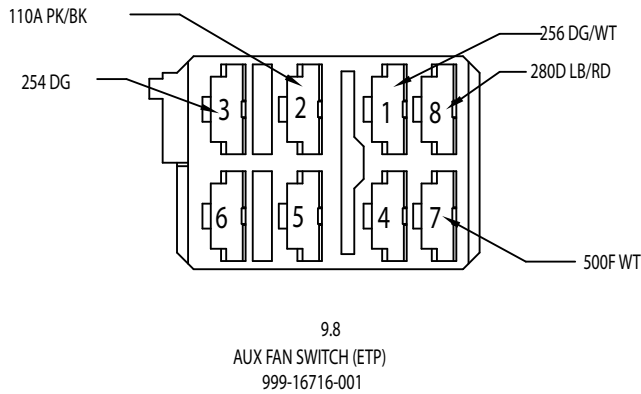
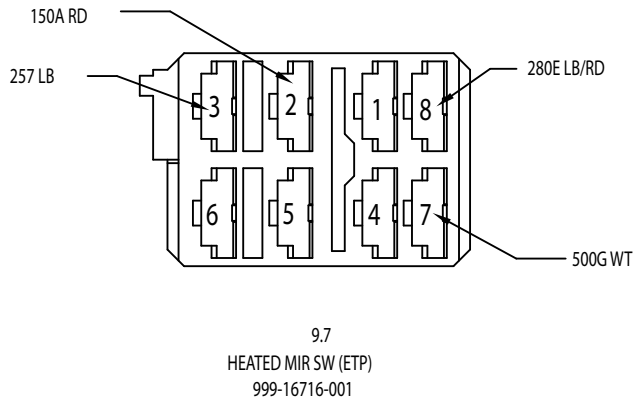
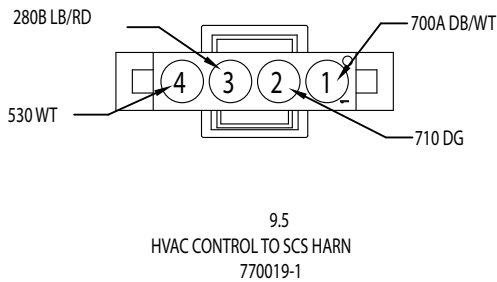
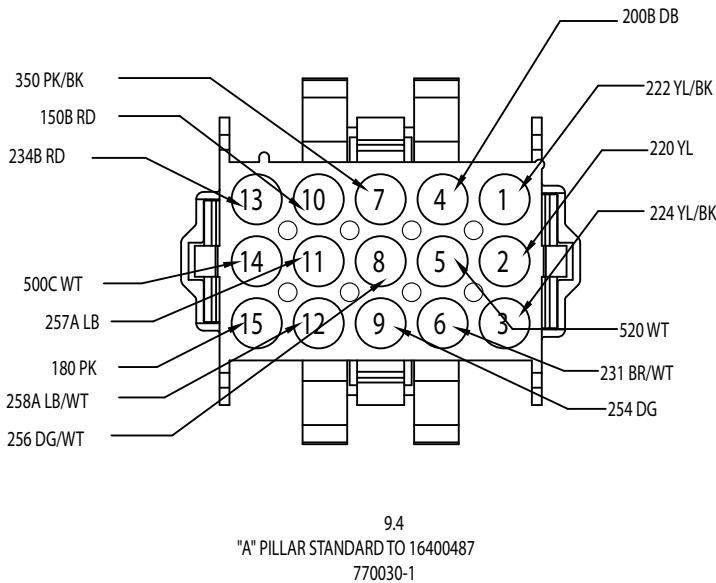
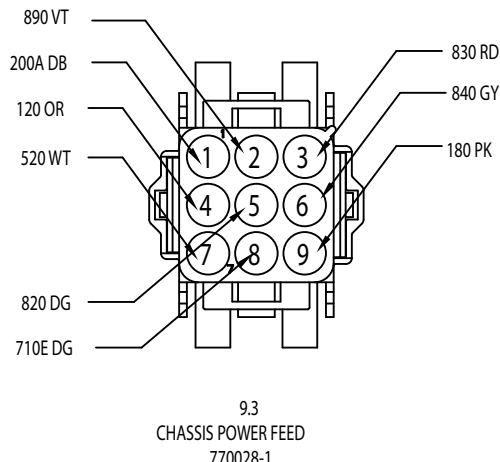
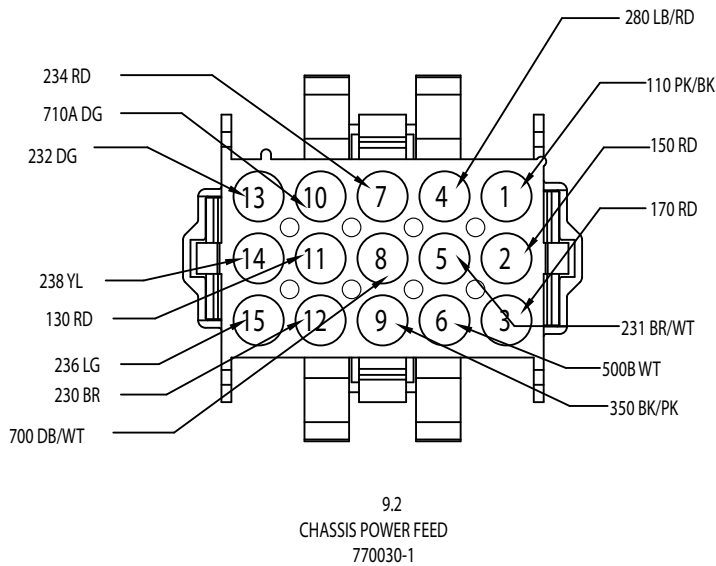
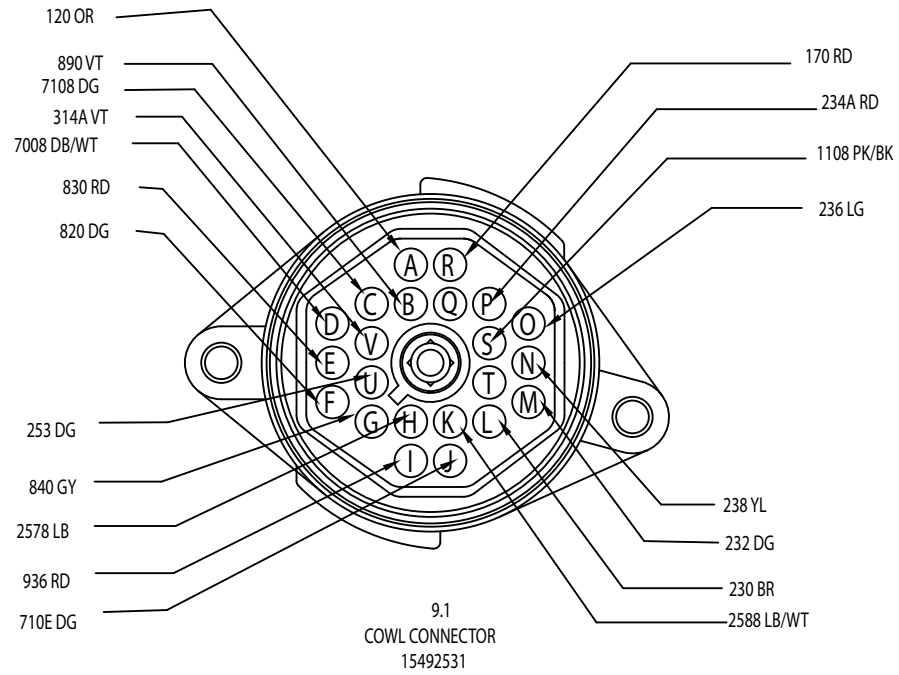


8.3/R
RIGHT BACK-UP
282087-1

LEGEND	
BATT	HOT AT ALL TIMES
IGN	HOT IN RUN OR START
ACC	HOT IN ACC OR RUN

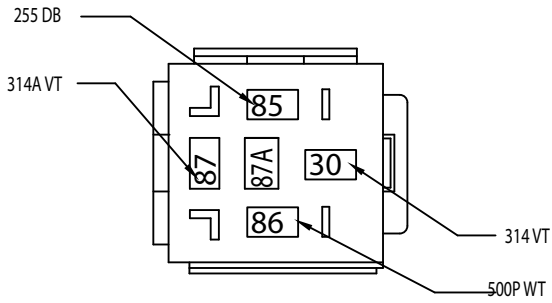
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							---	JYD									
	A	RELEASE FOR PRODUCTION					515140										
REV.	REVISIONS					AUTH	DATE	BY	CHECKED BY	APPROVED BY	CHECKED BY	DATE	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPARTAN MOTORS USA, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SPARTAN MOTORS IS PROHIBITED.		CAGE CODE	DWG. NUMBER	
											RLC	02/17/17	DOCUMENT IS ELECTRONICALLY CONTROLLED. VERIFY REV PRIOR TO USE.		36MV0	58232644	A

CONNECTOR VIEW

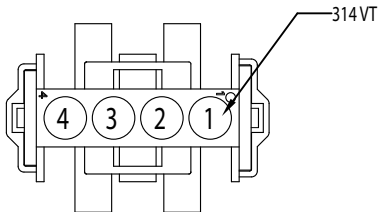


LEGEND	
	HOT AT ALL TIMES
	HOT IN RUN OR START
	HOT IN ACC OR RUN

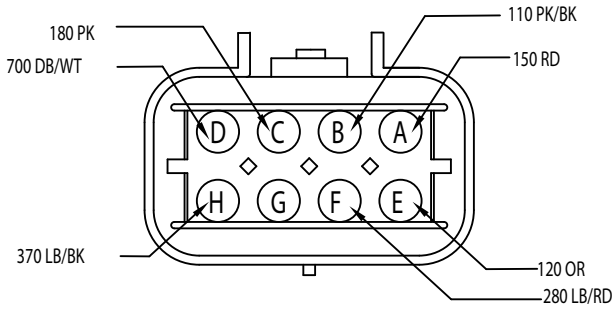
CONNECTOR VIEW



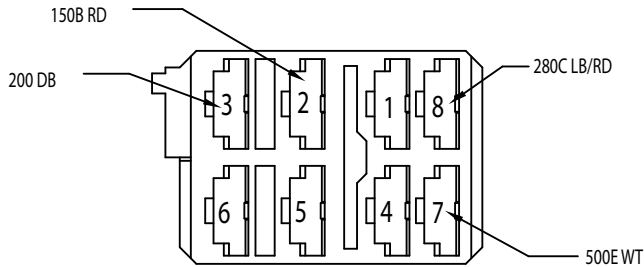
9.28
AUX HEATER RELAY
12033871



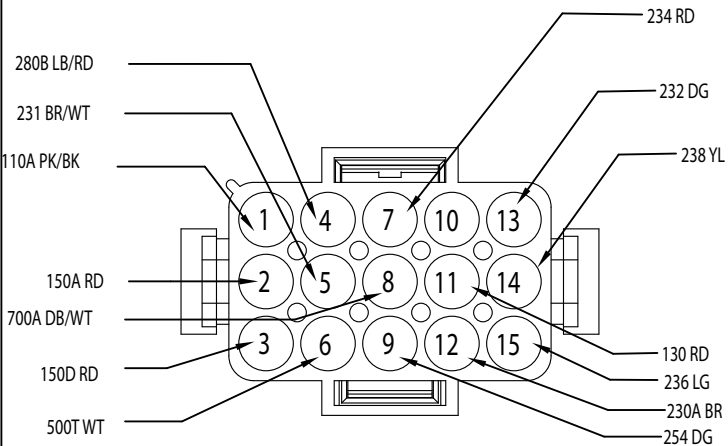
9.29
AUX HEATER FEED
770026-1



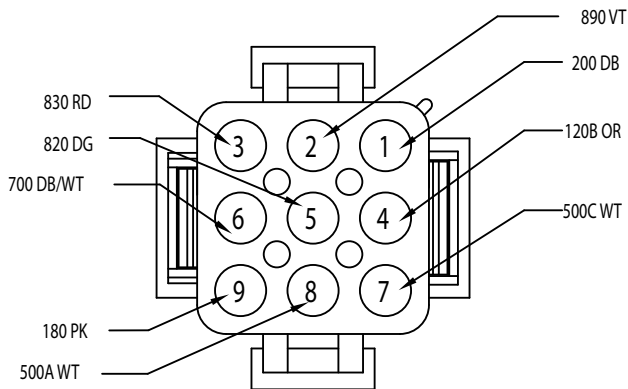
10.1
BODY BUILDER CONNECTOR
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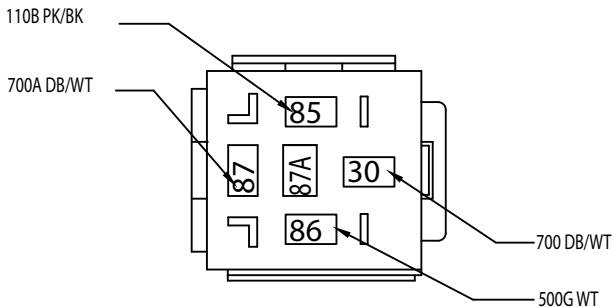
10.2
DOME LIGHT SWITCH (ETP)
999-16716-001



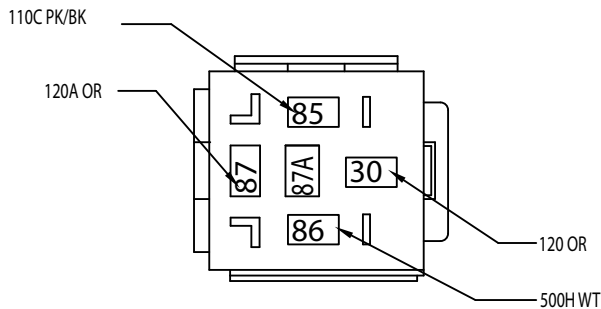
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POWER FEED #1
770023-1



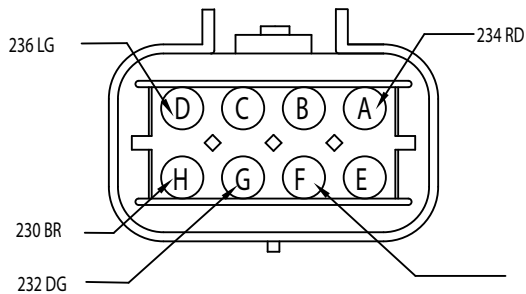
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POWER FEED #2
770021-1



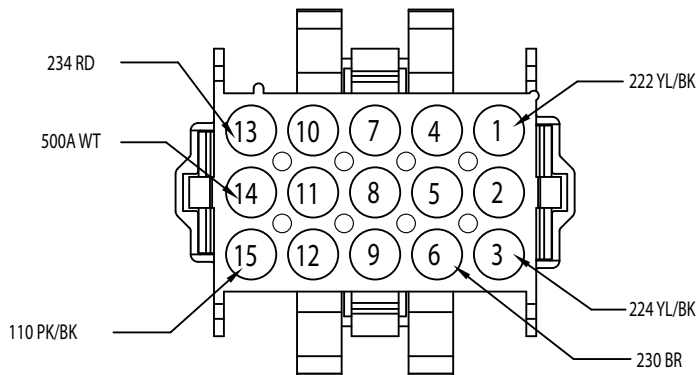
10.5
HVAC POWER RELAY
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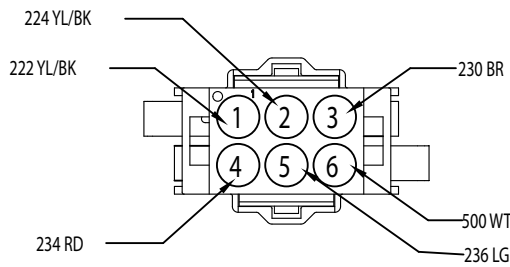
10.6
WIPER POWER RELAY
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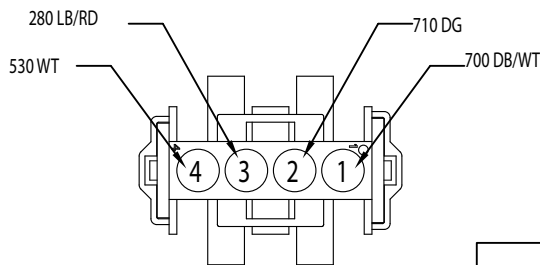
10.12
BODY BUILDER CONNECTOR
15326655



11.1
TO "A" PILLAR HARNESS
770030-1



11.5
REAR CLEARANCE LIGHT HARNESS
770027-1

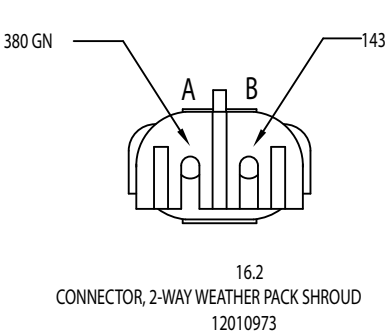
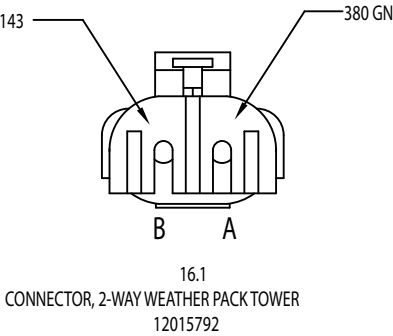
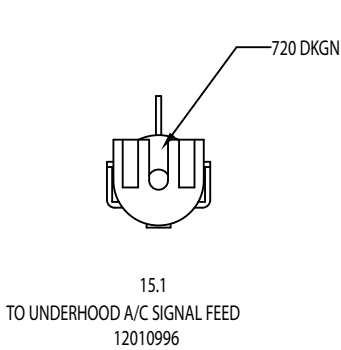


13.1
TO MAIN DASH HARNESS
770026-1

LEGEND	
BATT	HOT AT ALL TIMES
IGN	HOT IN RUN OR START
ACC	HOT IN ACC OR RUN

PAGE 7 OF 12							ENGINEER	DRAWN BY	Spartan Motors USA, Inc. 603 Earthway Blvd Bristol, N 46507	TITLE SCHEMATIC FREIGHTLINER MT45			
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							CHECKED BY	DATE					
							RLC	02/17/17					
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REV.	REVISIONS					AUTH	DATE	BY	CHECKED BY	APPROVED BY	CAGE CODE	DWG. NUMBER	
											36MV0	58232644	A

CONNECTOR VIEW



LEGEND

BATT

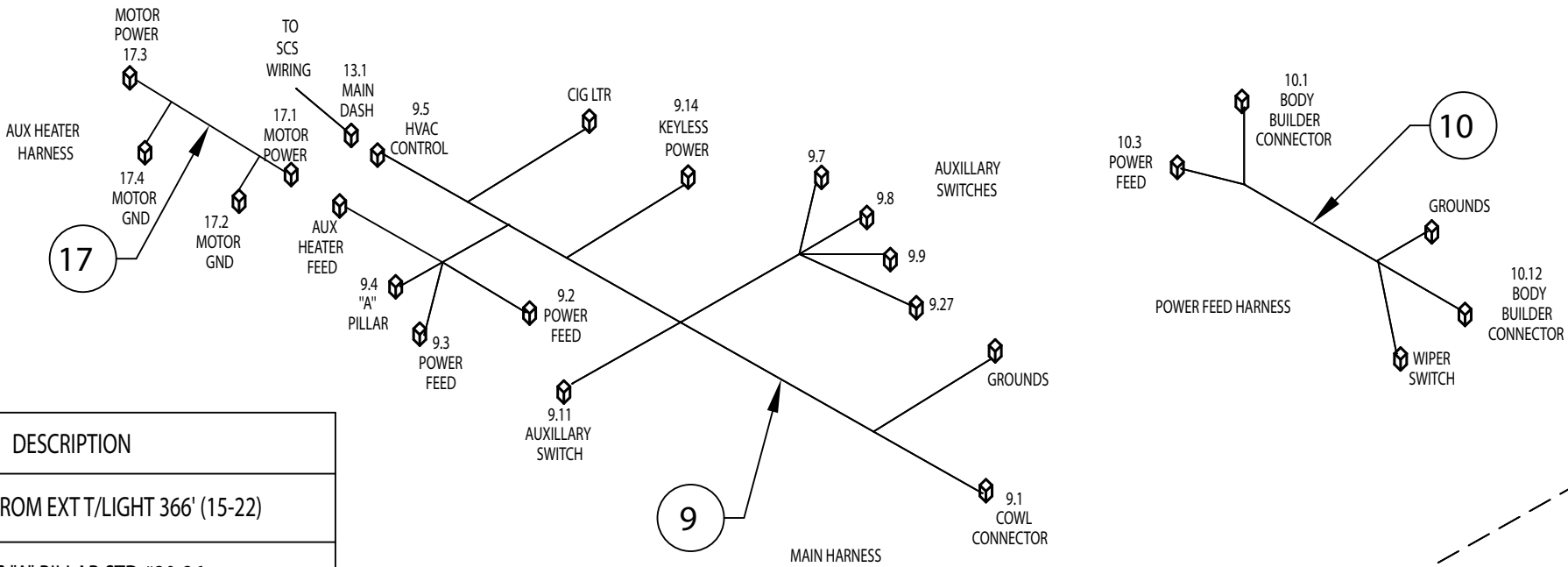
HOT AT ALL TIMES

IGN

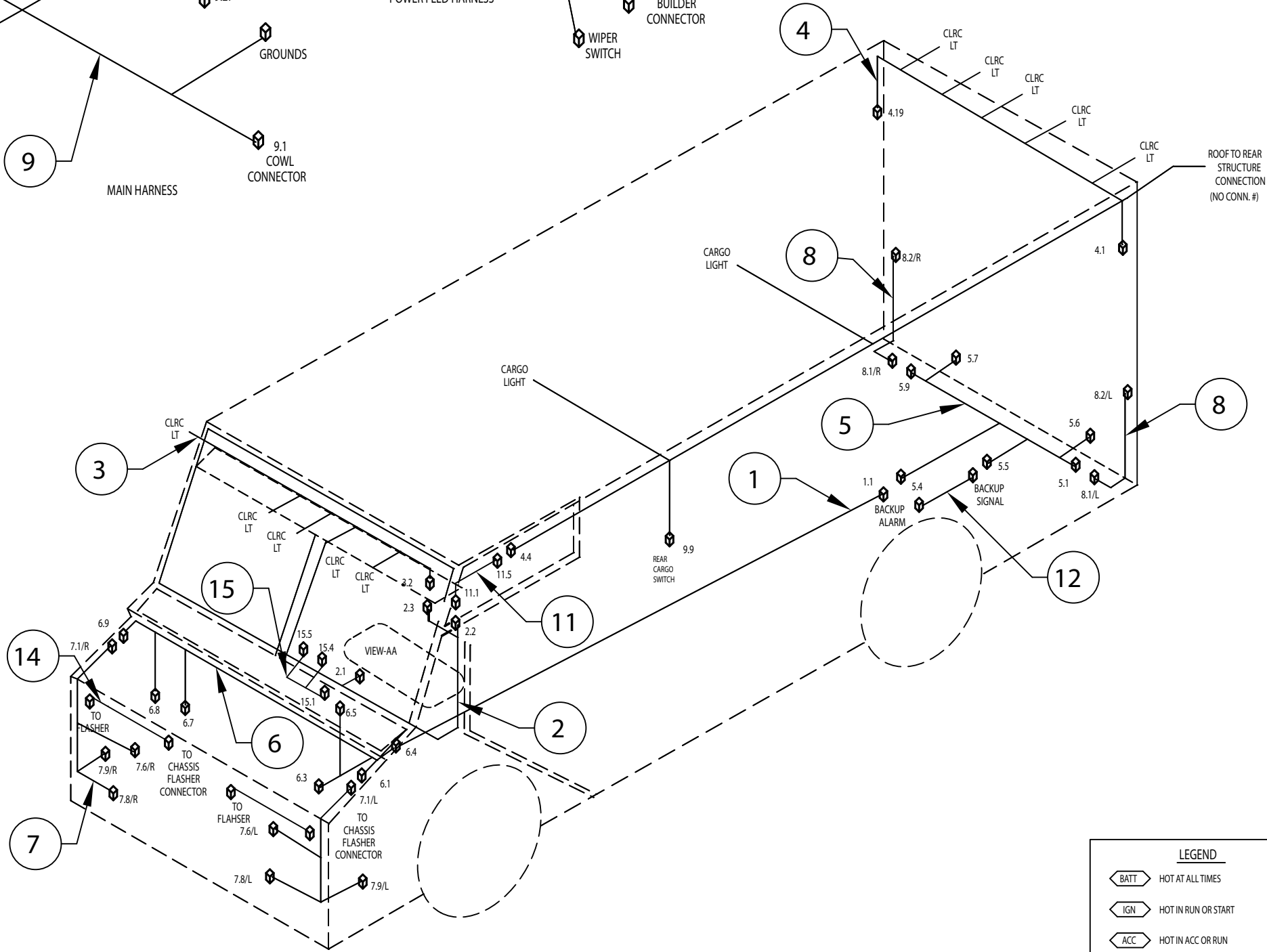
HOT IN RUN OR START

ACC

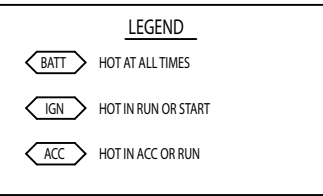
HOT IN ACC OR RUN



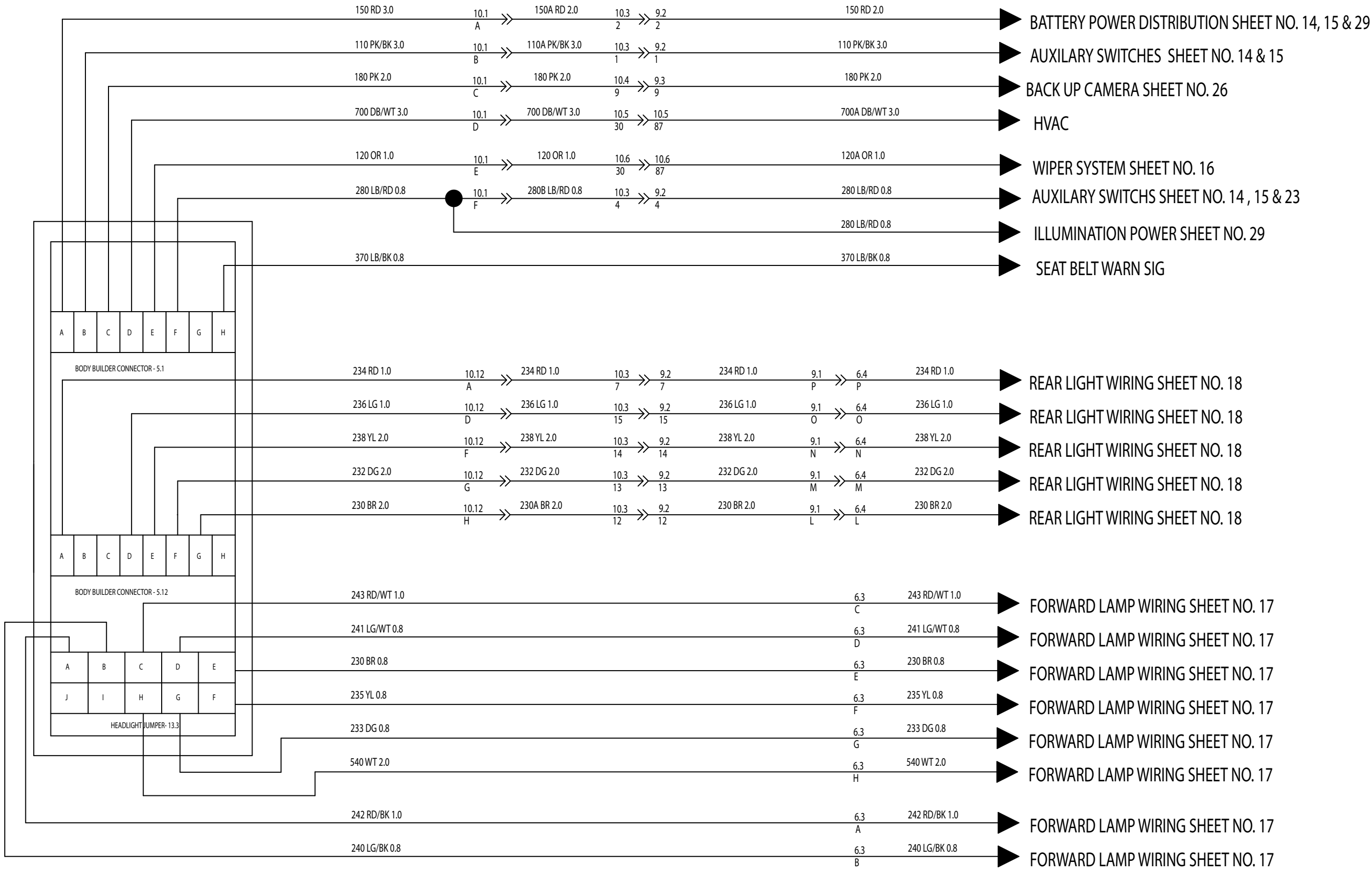
M.NO	HARNESS NUMBER	DESCRIPTION
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2	16400487	HARNESS "A" PILLAR STD #30-36
3	16512062	HARNESS CLRNS/CENTRAL GROUND
4	16512066	HARNESS RR CL LGT/CENTRAL GRD
5	16514514	HARNESS STANDARD REAR STRUCTURE
6	16517040	HARNESS HDLP/WIPER M2000
7	16516613	HARNESS HEADLAMP/TURN IND LED TURN
8	16516661	HARNESS REAR LIGHTS UNIVERSAL LED
9	16517256	HARNESS MAIN DASH
10	16517261	HARNESS POWER FEED FCCC MY'141
11	16516727-004	HARNESS ROOF UNIVERSAL 15'-18'
12	16513694	HARNESS BACKUP ALARM JUMPER
13	16514775	HARNESS CABLE TO ELEC HVAC ADAPTER
14	16513731	HARNESS FLASHER 1419
15	16514537	HARNESS AC FRTL R ISB 07 W/FAN
16	16515000	HARNESS ELEC FAN CLUTCH FCCC 2010
17	16516409	HARNESS AUX HEATER 15KBTU



LEGEND	
BATT	HOT AT ALL TIMES
IGN	HOT IN RUN OR START
ACC	HOT IN ACC OR RUN



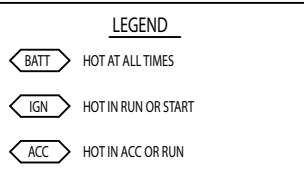
POWER DISTRIBUTION



CHASSIS POWER
DISTRIBUTION

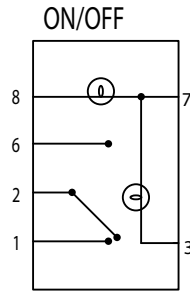
LEGEND	
BATT	HOT AT ALL TIMES
IGN	HOT IN RUN OR START
ACC	HOT IN ACC OR RUN

PAGE 11 OF 12										ENGINEER ---		DRAWN BY JYD				Spartan Motors USA, Inc. 603 Earthway Blvd Bristol, N 46507		TITLE SCHEMATIC FREIGHTLINER MT45	
A		RELEASE FOR PRODUCTION		515140						CHECKED BY RLC		DATE 02/17/17						CAGE CODE 36MV0	
REV.		REVISIONS		AUTH		DATE		BY		CHECKED BY		APPROVED BY						DWG. NUMBER 58232644	
																		A	

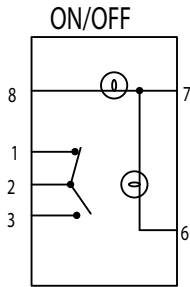


SWITCHES

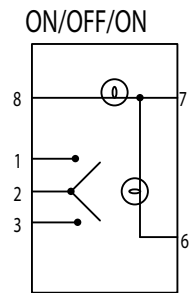
CARGO
LIGHT
SWITCH



AUX FAN
SWITCH



HEATED
MIR SW

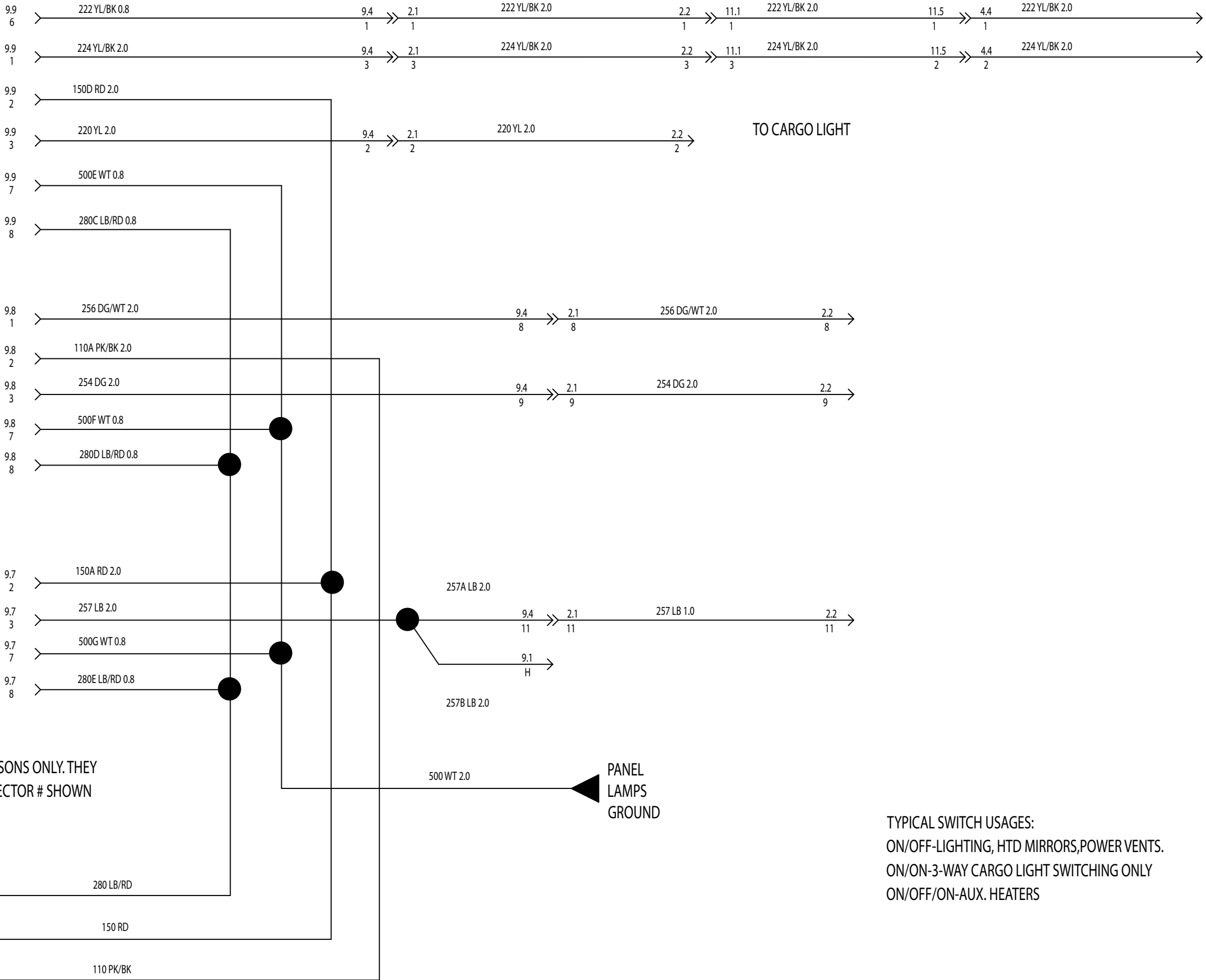


SWITCHES SHOWN ARE VISUAL FUNCTIONAL REASONS ONLY. THEY
ARE NOT NECESSARILY MATCHED TO THE CONNECTOR # SHOWN

ILLUMINATION POWER DISTRIBUTION

POWER DISTRIBUTION

IGNITION POWER DISTRIBUTION



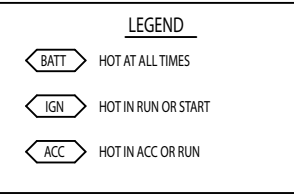
TO CARGO LIGHT

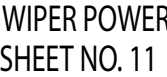
PANEL
LAMPS
GROUND

TYPICAL SWITCH USAGES:
ON/OFF-LIGHTING, HTD MIRRORS,POWER VENTS.
ON/ON-3-WAY CARGO LIGHT SWITCHING ONLY
ON/OFF/ON-AUX. HEATERS

LEGEND

- BATT HOT AT ALL TIMES
- IGN HOT IN RUN OR START
- ACC HOT IN ACC OR RUN





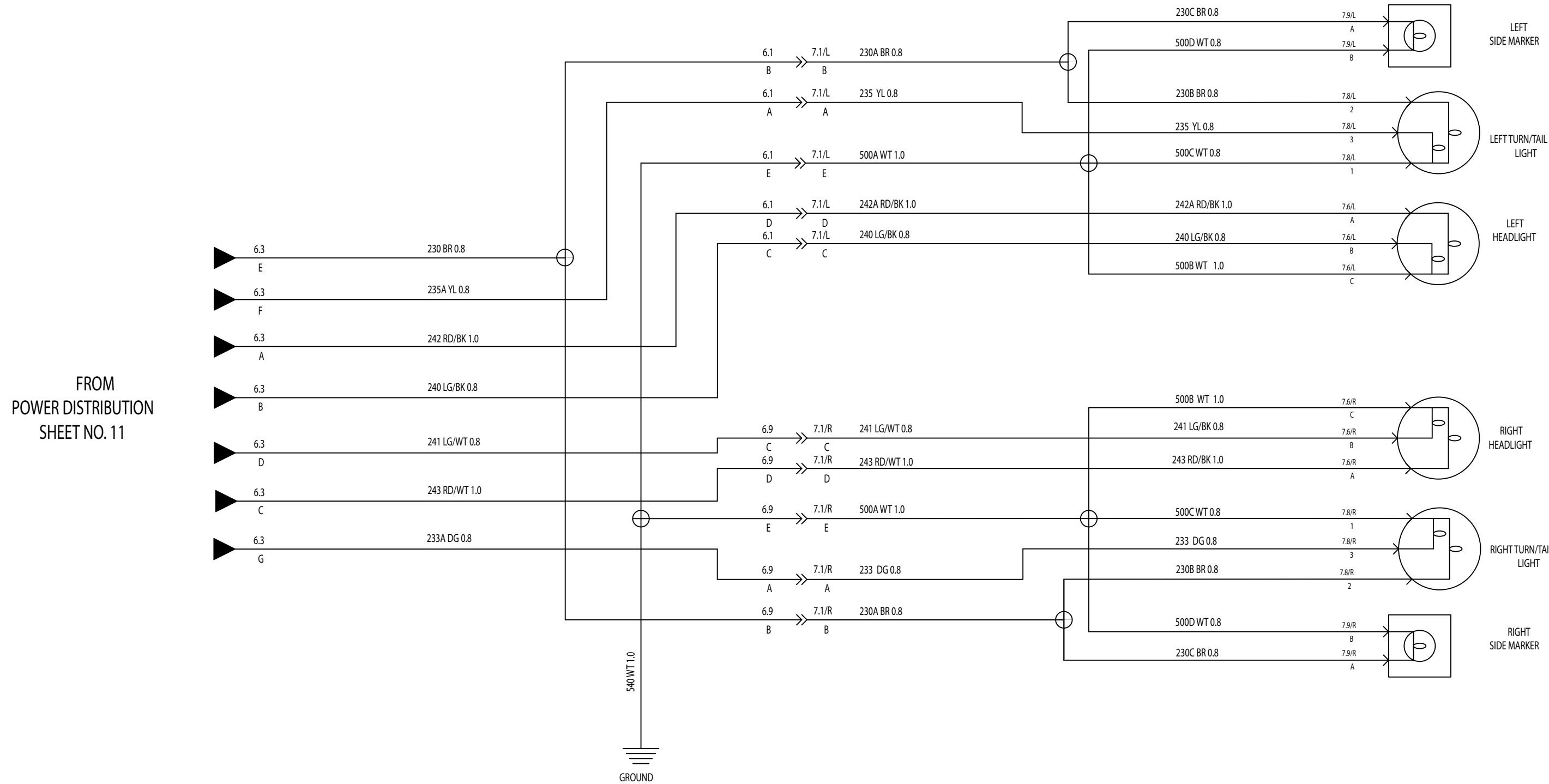
120 OR - WIPER POWER
510 WT - WIPER MOTOR GROUND
820 DG - LOW SPEED
840 GY - PARK
830 RD - HIGH SPEED
890A VT - WASHER PUMP

WIPER MOTOR GROUND

WASHER GROUND

LEGEND

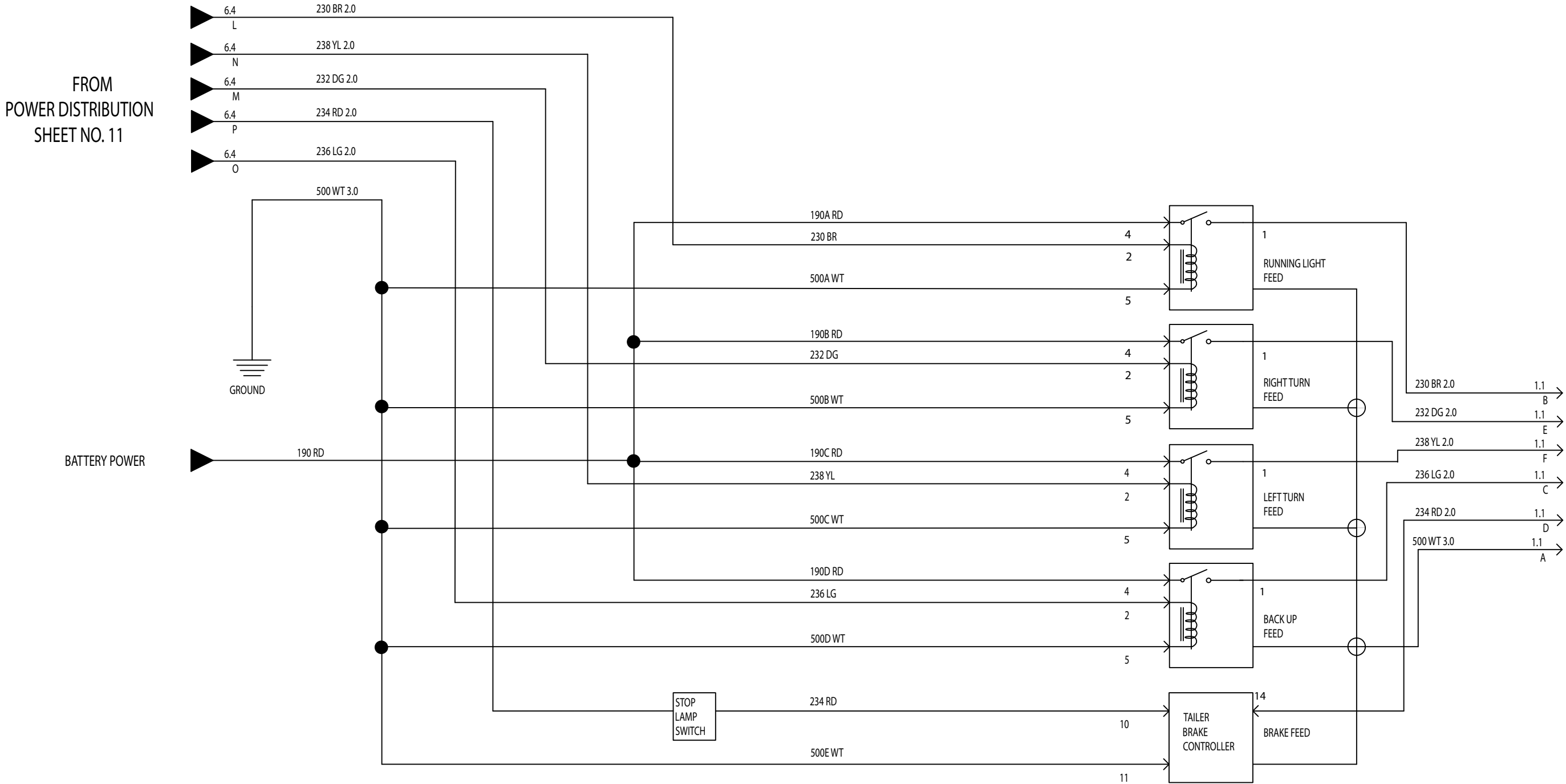
	HOT AT ALL TIMES
	HOT IN RUN OR START
	HOT IN ACC OR RUN



LEGEND	
BATT	HOT AT ALL TIMES
IGN	HOT IN RUN OR START
ACC	HOT IN ACC OR RUN

PAGE 5 OF 12		515140						ENGINEER ---	DRAWN BY JYD	Spartan Motors USA, Inc. 603 Earthway Blvd Bristol, N 46507		TITLE SCHEMATIC FREIGHTLINER MT45
A		515140						CHECKED BY RLC	DATE 02/17/17	CAGE CODE 36MV0		DWG. NUMBER 58232644
REV.		AUTH						DATE	BY	CHECKED BY	APPROVED BY	A
RELEASE FOR PRODUCTION		REVISIONS						DOCUMENT IS ELECTRONICALLY CONTROLLED. VERIFY REV PRIOR TO USE.				

REAR LIGHT WIRING-STANDARD



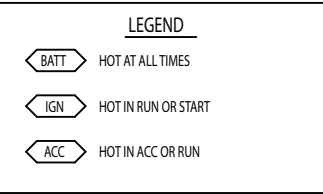
LEGEND

BATT HOT AT ALL TIMES

IGN HOT IN RUN OR START

ACC HOT IN ACC OR RUN

PAGE 6 OF 12								ENGINEER	DRAWN BY	Spartan Motors USA, Inc. 603 Earthway Blvd Bristol, N 46507	TITLE SCHEMATIC FREIGHTLINER MT45	
							---	JYD				
	A	RELEASE FOR PRODUCTION		515140				CHECKED BY	DATE	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPARTAN MOTORS USA, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SPARTAN MOTORS IS PROHIBITED. DOCUMENT IS ELECTRONICALLY CONTROLLED. VERIFY REV PRIOR TO USE.		
	REV.	REVISIONS		AUTH	DATE	BY	CHECKED BY	APPROVED BY	RLC			
										CAGE CODE	DWG. NUMBER	
										36MV0	58232644	A

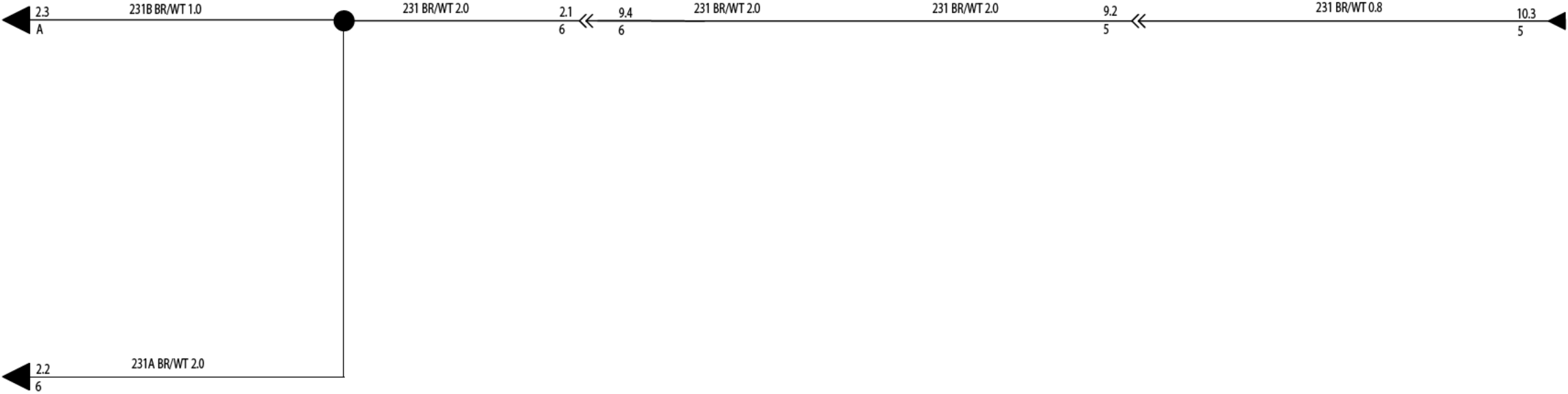


CLEARANCE LIGHTS

FRONT CLEARANCE
LIGHT
SHEET NO. 21

CLEARANCE LIGHTS
POWER FEED #1

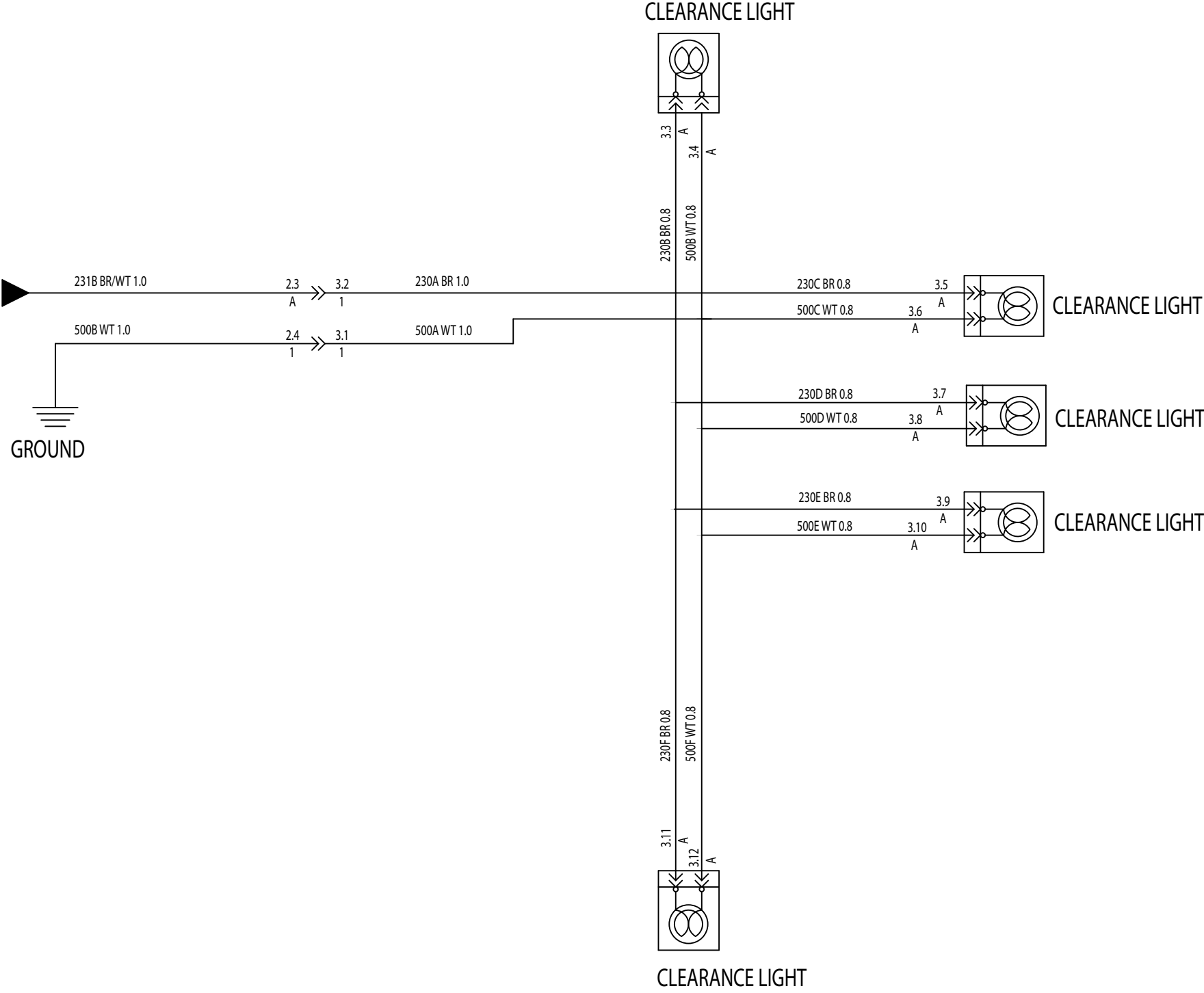
REAR CLEARANCE
LIGHT
SHEET NO. 22



LEGEND

BATT	HOT AT ALL TIMES
IGN	HOT IN RUN OR START
ACC	HOT IN ACC OR RUN

FROM
CLEARANCE LIGHT SYSTEM
SHEET NO. 20

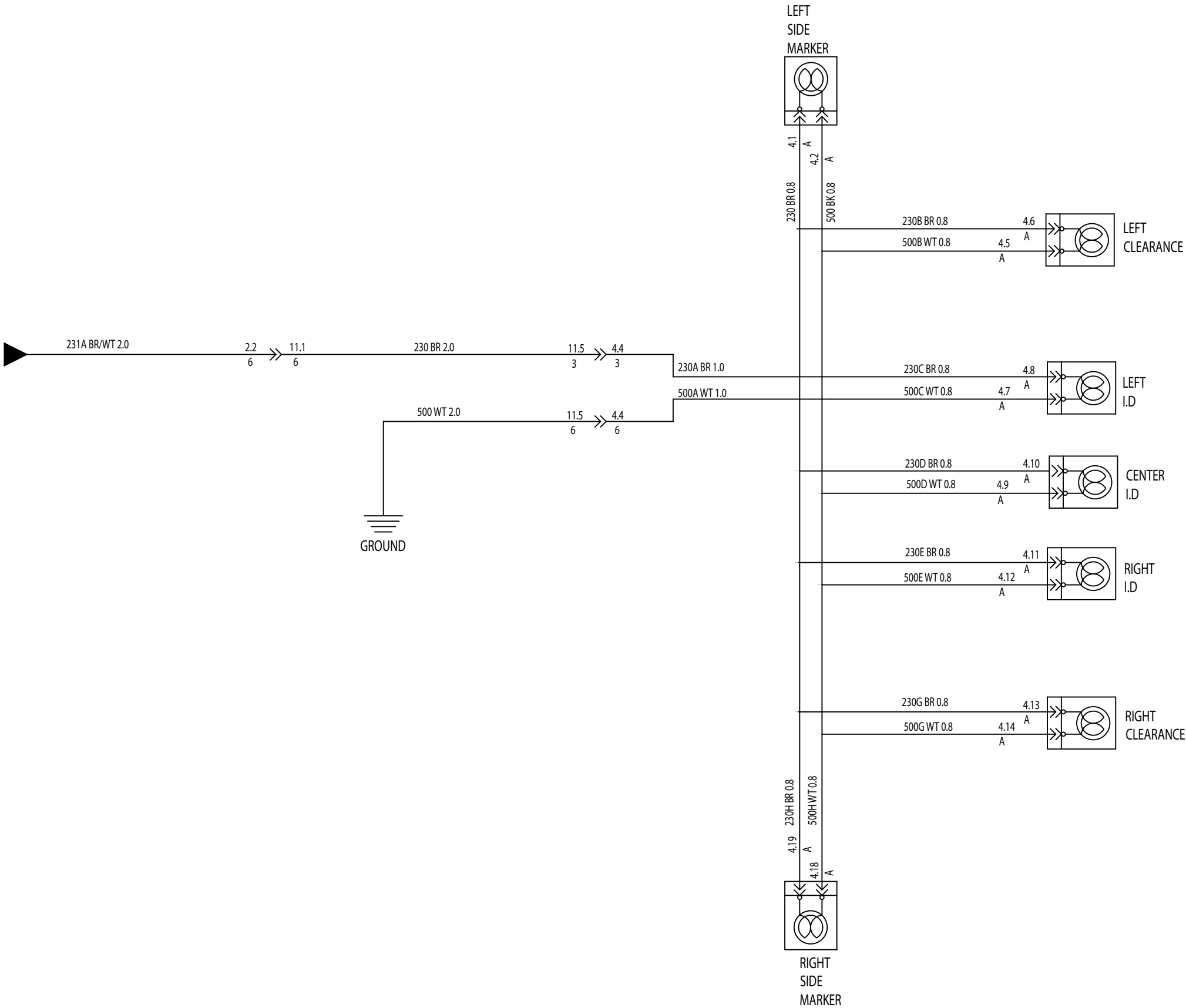


LEGEND	
BATT	HOT AT ALL TIMES
IGN	HOT IN RUN OR START
ACC	HOT IN ACC OR RUN

PAGE 9 OF 12										ENGINEER ---		DRAWN BY JYD				Spartan Motors USA, Inc. 603 Earthway Blvd Bristol, N 46507		TITLE SCHEMATIC FREIGHTLINER MT45	
A		RELEASE FOR PRODUCTION		515140		DATE		BY		CHECKED BY RLC		DATE 02/17/17		CAGE CODE 36MV0		DWG. NUMBER 58232644		A	
REV.		REVISIONS		AUTH		DATE		BY		CHECKED BY		APPROVED BY		DOCUMENT IS ELECTRONICALLY CONTROLLED. VERIFY REV PRIOR TO USE.					

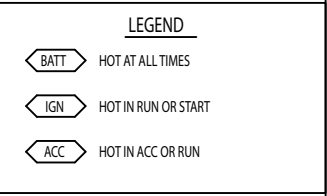
REAR CLEARANCE LIGHT

FROM
CLEARANCE LIGHT SYSTEM
SHEET NO. 20

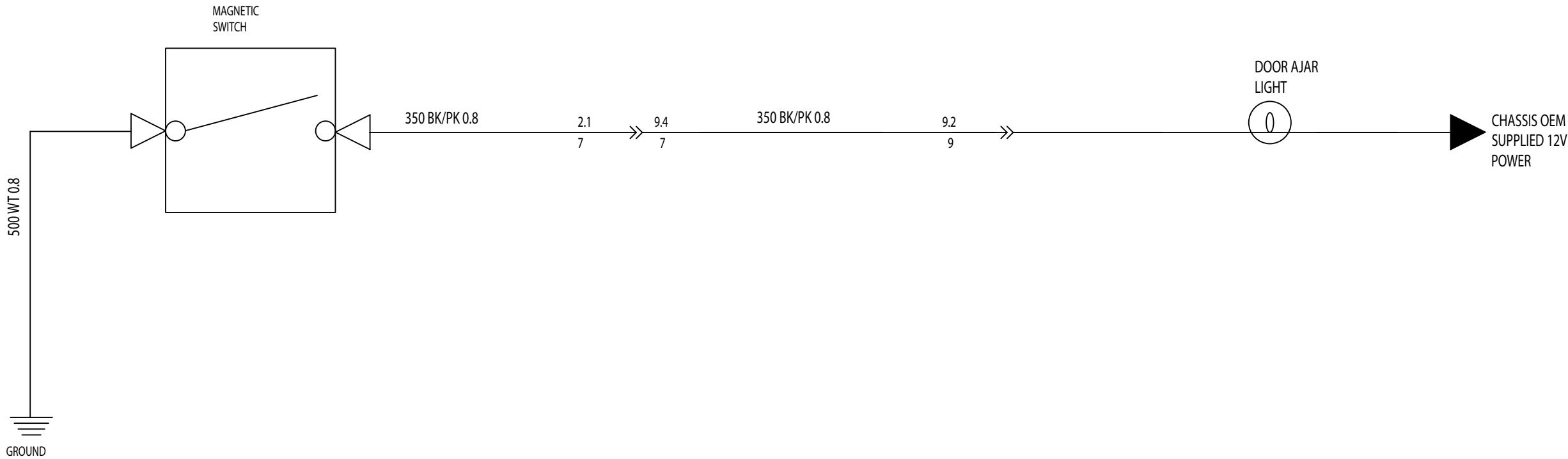


LEGEND	
BATT	HOT AT ALL TIMES
IGN	HOT IN RUN OR START
ACC	HOT IN ACC OR RUN

PAGE 10 OF 12							ENGINEER	DRAWN BY	Spartan Motors USA, Inc. 603 Earthway Blvd Bristol, N 46507	TITLE SCHEMATIC FREIGHTLINER MT45		
							---	JYD				
A	RELEASE FOR PRODUCTION		515140				CHECKED BY	DATE	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPARTAN MOTORS USA, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SPARTAN MOTORS IS PROHIBITED. DOCUMENT IS ELECTRONICALLY CONTROLLED. VERIFY REV PRIOR TO USE.			
REV.	REVISIONS		AUTH	DATE	BY	CHECKED BY	APPROVED BY	RLC	02/17/17	CAGE CODE 36MV0	DWG. NUMBER 58232644	A



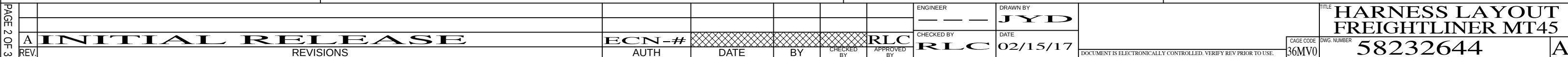
DOOR AJAR



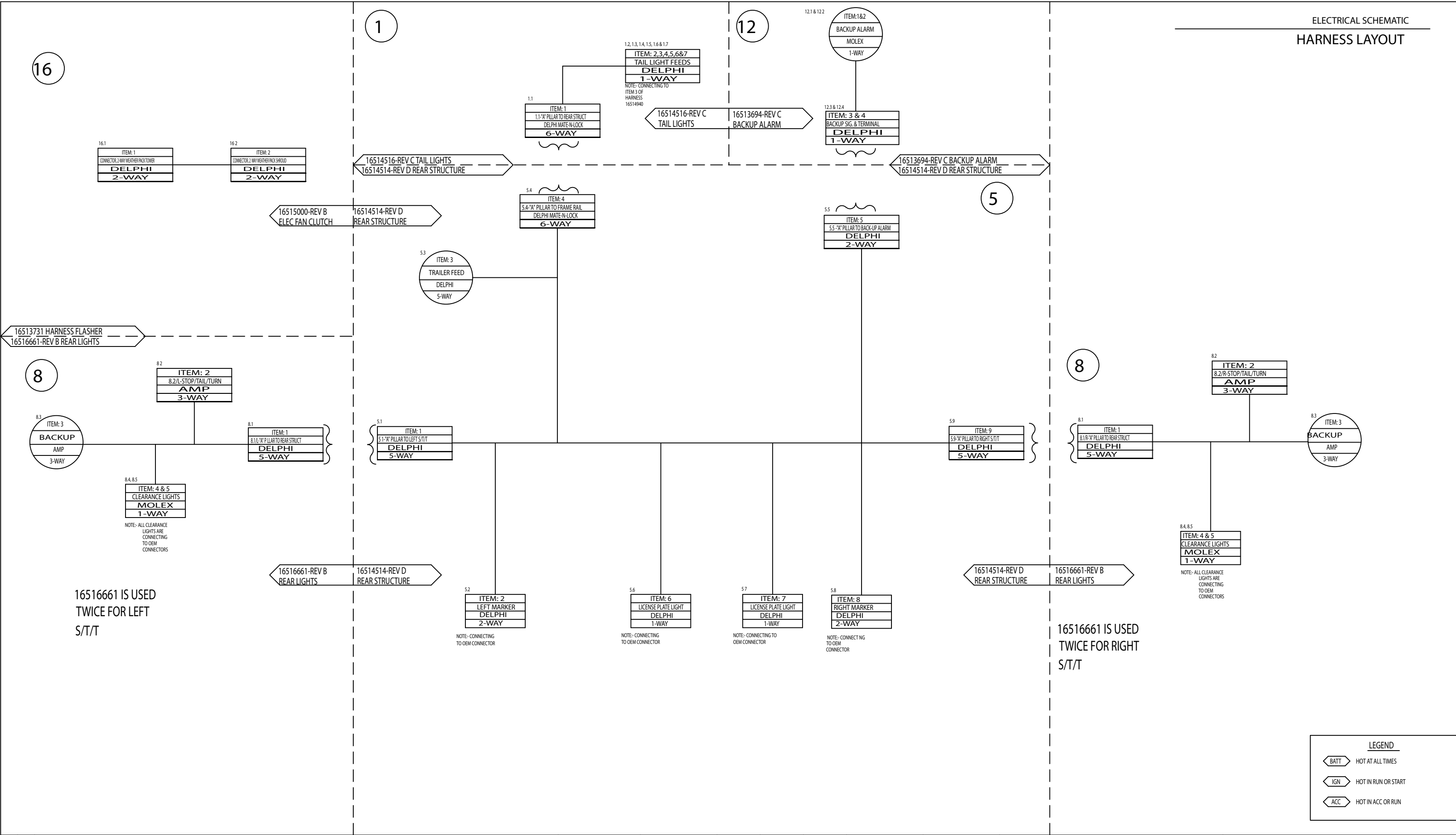
LEGEND	
BATT	HOT AT ALL TIMES
IGN	HOT IN RUN OR START
ACC	HOT IN ACC OR RUN

PAGE 12 OF 12								ENGINEER	DRAWN BY	Spartan Motors USA, Inc. 603 Earthway Blvd Bristol, N 46507	TITLE SCHEMATIC FREIGHTLINER MT45				
								---	JYD						
	A	RELEASE FOR PRODUCTION		515140					CHECKED BY	DATE	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPARTAN MOTORS USA, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SPARTAN MOTORS IS PROHIBITED. DOCUMENT IS ELECTRONICALLY CONTROLLED. VERIFY REV PRIOR TO USE.	CAGE CODE	DWG. NUMBER	58232644	A
	REV.	REVISIONS		AUTH	DATE	BY	CHECKED BY	APPROVED BY	RLC	02/17/17		36MV0			

HARNESS LAYOUT



ELECTRICAL SCHEMATIC
HARNESS LAYOUT



LEGEND	
	HOT AT ALL TIMES
	HOT IN RUN OR START
	HOT IN ACC OR RUN