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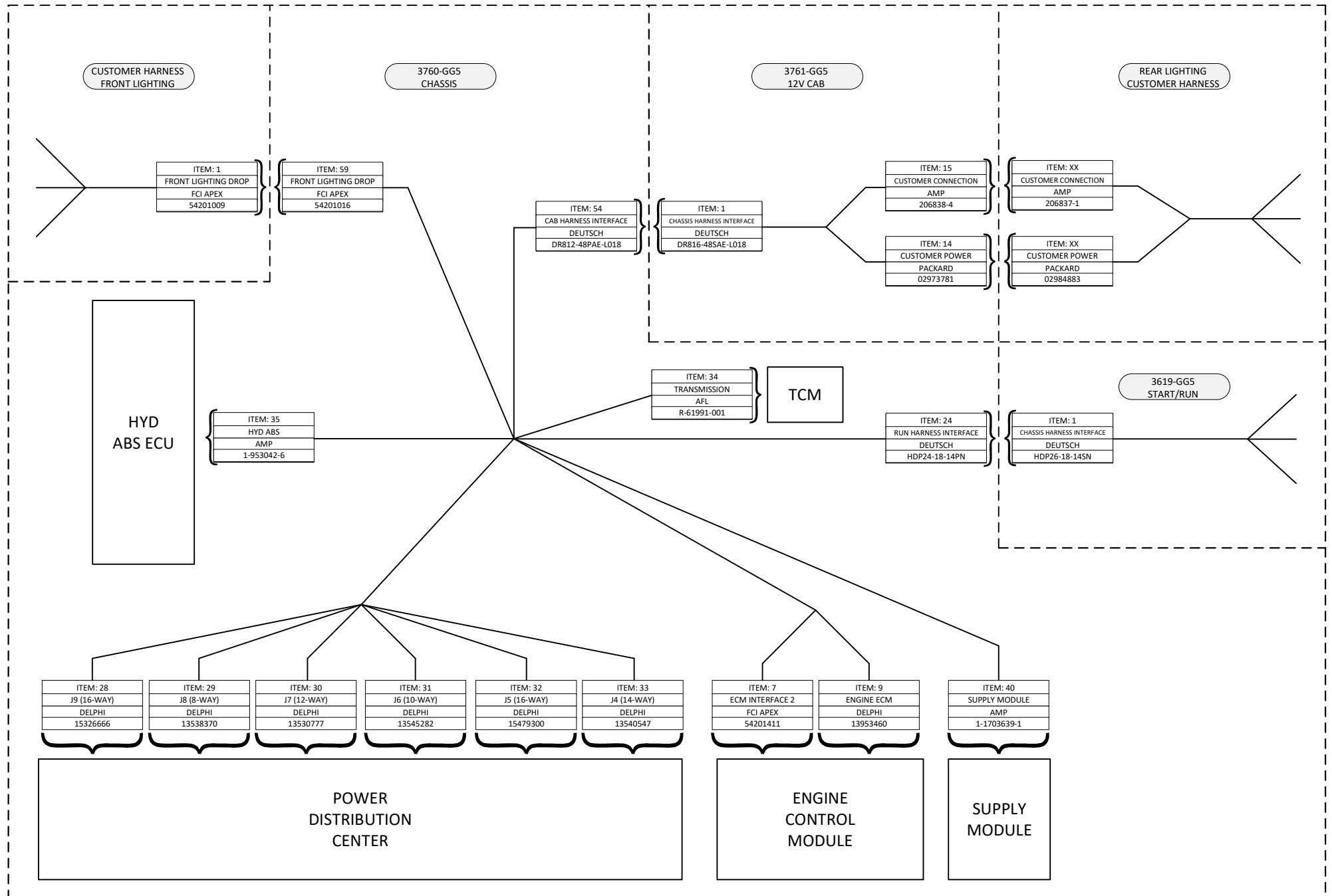
HARNESS DESCRIPTION	HARNESS DRAWING	CONNECTOR LEDGER
HEATED FUEL FILTER	3629-GG5X	3629-GG10
START/RUN HARNESS	3871-GG5X-002	3871-GG10-002
CHASSIS HARNESS	3869-GG5-002	3869-GG10-002
CAB HARNESS	3870-GG5X-002	3870-GG10-002

X: SEE BOM FOR REVISION LEVELS

2013 HYDRAULIC BRAKE LION BUS CUMMINS

ELECTRICAL SCHEMATIC 1-5

HARNESS LAYOUT





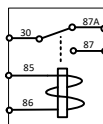
ENTIRE
COMPONENT
SHOWN



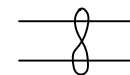
UNLESS SPECIFIED, RELAYS ARE SHOWN
IN THE DE-ENERGIZED STATE.
TERMINALS 30 AND 87 ARE
CLOSED WHEN THE RELAY COIL IS
ENERGIZED



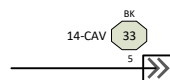
PARTIAL
COMPONENT
SHOWN



UNLESS SPECIFIED, RELAYS ARE SHOWN
IN THE DE-ENERGIZED STATE.
87A IS THE NORMALLY CLOSED
CONTACT AND 87 IS THE NORMALLY
OPEN CONTACT.



THIS SYMBOL REPRESENTS WIRES
TWISTED TOGETHER.



CONNECTOR W/ THE FOLLOWING:
WIRE IN CAVITY 5
CONNECTOR IS ITEM #33
CONNECTOR IS BLACK (BK)
CONNECTOR HAS 14 CAVITIES

BATT

BATT = HOT AT ALL TIMES

IGN

IGN: HOT IN RUN OR START

ACC

ACC: HOT IN ACC OR RUN

RIGHT REAR
HEIGHT
CONTROL
VALVE

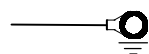


REPRESENT AN ELECTRICALLY
CONTROLLED SOLENOID.

3761-GG5
12V CAB

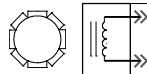
CAB

HARNESS FLAG INDICATES THE
NAME OF THE HARNESS AND THE
PART NUMBER OF THE HARNESS.
MAY ALSO BE SHOWN WITHOUT
HARNESS PART NUMBER. REFER
TO THE HARNESS LIST IN SECTION
1 OF THE SCHEMATIC BOOK FOR
A LIST OF HARNESSES AND PART
NUMBERS.

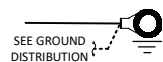


WIRE IS TERMINATED AT A RING
TERMINAL AND ATTACHED TO
GROUND

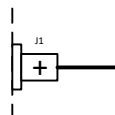
ENGINE
SPEED
SENSOR



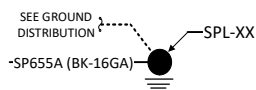
REPRESENTS A HALL EFFECT
SENSOR



ADDITIONNAL CIRCUITS NOT SHOWN.
REFERENCE THE GROUND
DISTRIBUTION SCHEMATIC FOR
DETAILS



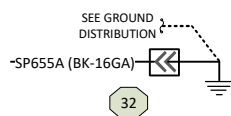
POSITIVE PASS THROUGH STUD
W/ LOCATION



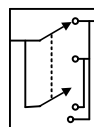
CIRCUIT SP655A ENDS AT SPLICE XX.
REMAINING CIRCUITS NOT SHOWN
AND ARE RETURNED TO GROUND.



REPRESENTS A FUSE RATED FOR
30A, LOCATED IN POSITION "F3"
AND LABELLED AS "ECM BATT".



CIRCUIT SP655A ENDS AT
CONNECTORS #32.
REMAINING CIRCUITS NOT SHOWN
AND ARE RETURNED TO GROUND.



A DASHED LINE BETWEEN SWITCH
CONTACTS IMPLIES A MECHANICAL
CONNECTION AND THEY MOVE
TOGETHER.

VARIOUS INPUT AND OUTPUT SYMBOLS USED TO REPRESENT THE INTERNAL OPERATION OF AN ELECTRONIC CONTROL MODULE (ECM).

EXAMPLE V+ INPUT SHOWN.

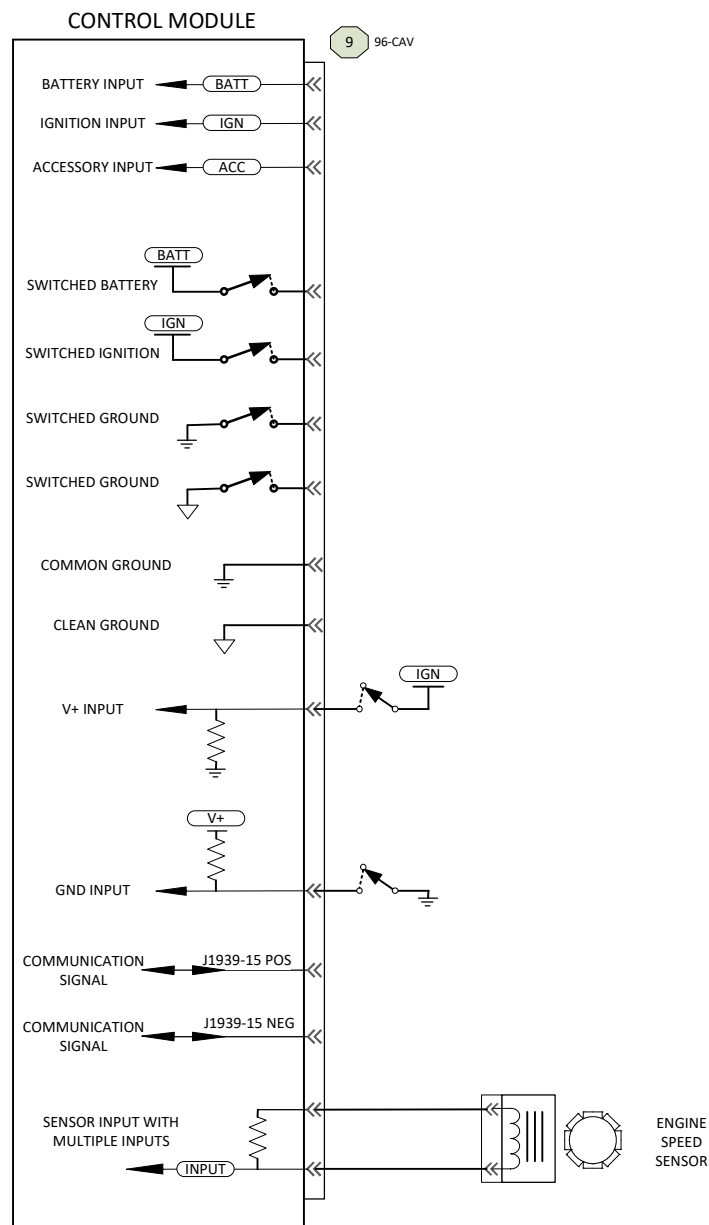
A V+ INPUT REQUIRES THE SWITCH OUTSIDE OF THE MODULE TO PROVIDE POWER WHEN THE SWITCH IS CLOSED. THE INTERNAL CIRCUIT INTERPRETS THE INPUT AS TRANSITIONING FROM LOW (SWITCH OPEN) TO HIGH (SWITCH CLOSED) AND RESPONDS ACCORDINGLY.

EXAMPLE GROUND INPUT SHOWN.

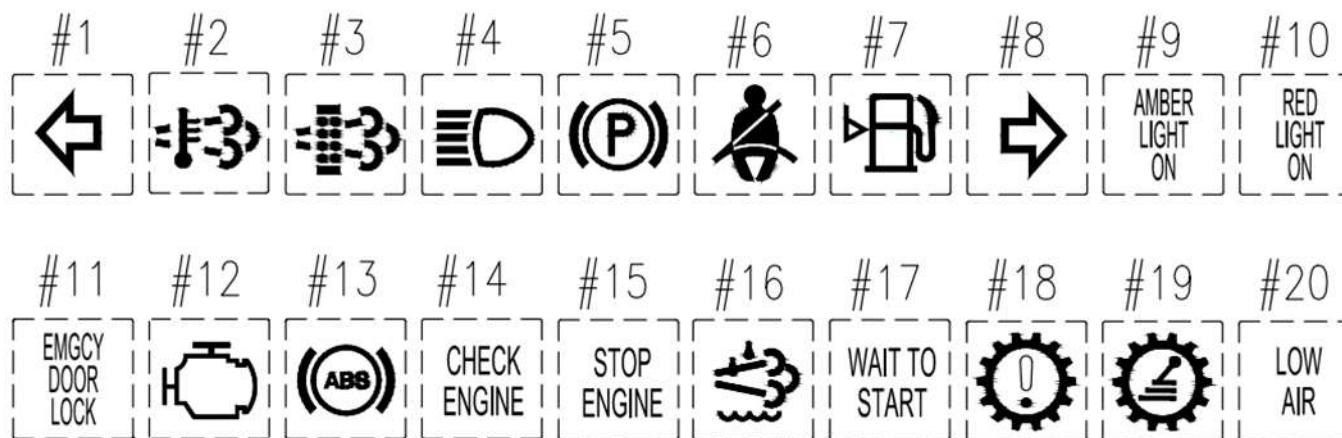
A GND INPUT REQUIRES THE SWITCH OUTSIDE OF THE MODULE TO PROVIDE GROUND WHEN THE SWITCH IS CLOSED. THE INTERNAL CIRCUIT INTERPRETS THE INPUT AS TRANSITIONING FROM HIGH (SWITCH OPEN) TO LOW (SWITCH CLOSED) AND RESPONDS ACCORDINGLY.

EXAMPLE SENSOR INPUT SHOWN.

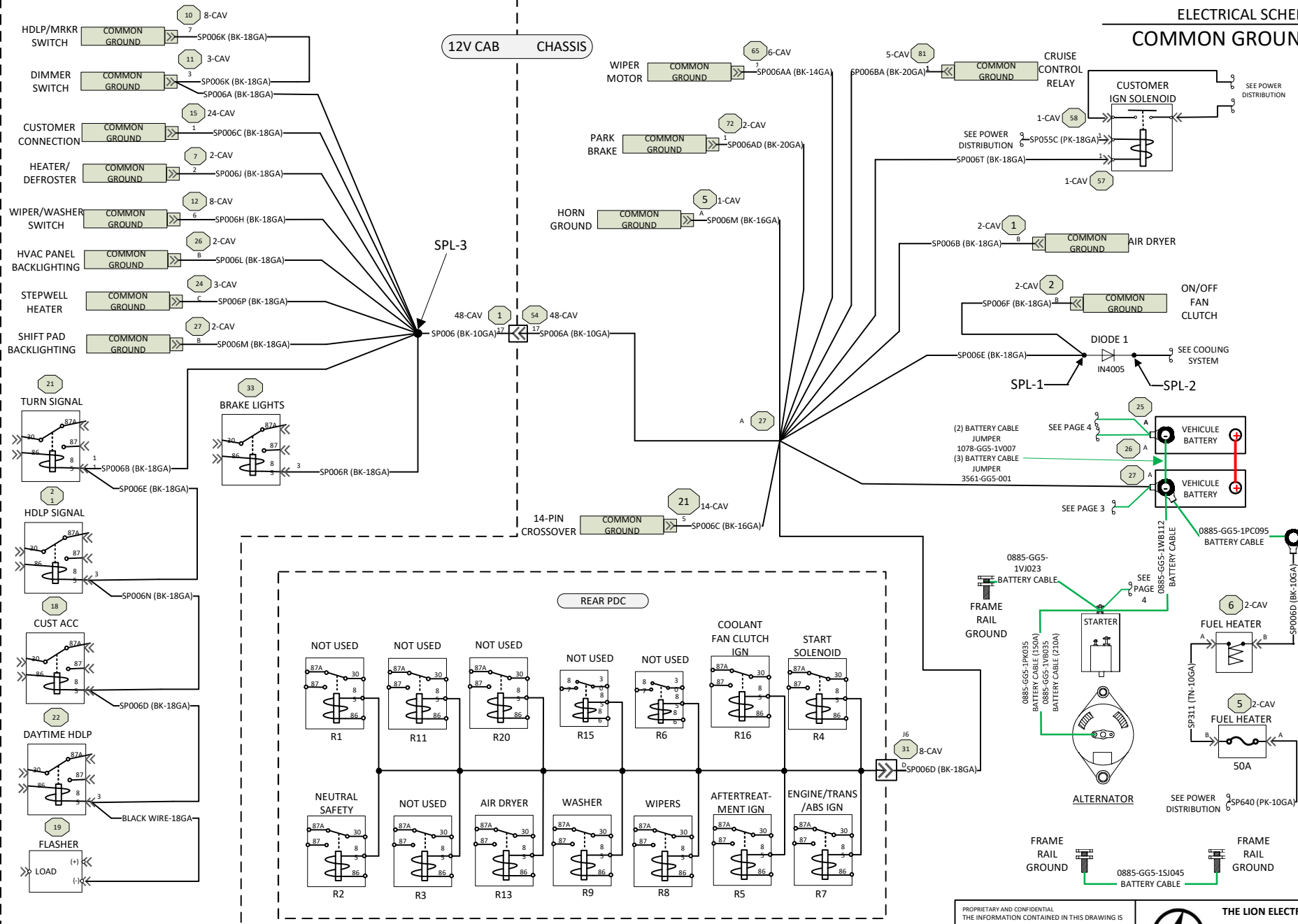
A MODULE HAVING MULTIPLE INPUTS MAY BE SHOWN LIKE THIS EXAMPLE. THE RESISTOR SYMBOL IS NOT A TRUE REPRESENTATION OF THE ACTUAL CIRCUIT AND IS SHOWN FOR SIMPLISTIC REASONS ONLY.



INSTRUMENT PANEL INDICATOR LAMP IDENTIFICATION AND DESCRIPTIONS



ID #	LAMP ID	LAMP COLOR	DESCRIPTION
1	LEFT TURN	GREEN	LEFT TURN SIGNAL
2	HEST LAMP	AMBER	HIGH EXHAUST SYSTEM TEMPERATURE
3	DPF LAMP	AMBER	DIESEL PARTICULATE FILTER
4	HIGH BEAM	BLUE	HIGH BEAM
5	PARK BRAKE	RED	PARKING BRAKE SET WHEN ILLUMINATED
6	SEAT BELT	RED	SEAT BELT
7	LOW FUEL	AMBER	ON=LESS THAN 1/8 TANK - OFF=MORE THAN ¼ TANK
8	RIGHT TURN	GREEN	RIGHT TURN SIGNAL
9	AMBER LIGHT ON	AMBER	AMBER WARNING LIGHTS ON
10	RED LIGHT ON	RED	RED WARNING LIGHTS ON
11	EMERGENCY DOOR LOCK	RED	EMERGENCY DOOR IS OPEN
12	MIL	AMBER	MALFUNCTION INDICATOR LAMP (ENGINE)
13	ABS	AMBER	ANTILOCK BRAKE SYSTEM
14	CHECK ENGINE	AMBER	ENGINE FAULT, SERVICE ENGINE SOON
15	STOP ENGINE	RED	ENGINE FAULT, SERVICE ENGINE IMMEDIATELY
16	DEF	AMBER	DIESEL EXHAUST FLUID
17	WAIT TO START	WHITE	ENGINE PREHEAT ACTIVE
18	CHECK TRANS	AMBER	TRANSMISSION FAULT, SERVICE IMMEDIATELY
19	RANGE INHIBIT	AMBER	TRANSMISSION, GEAR SELECTION PROHIBITED
20	LOW AIR	AMBER	LOW AIR WHEN PRIMARY OR SECONDARY TANK DROPS BELOW 65PSI



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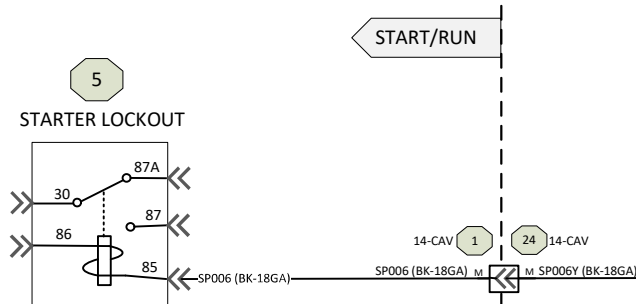
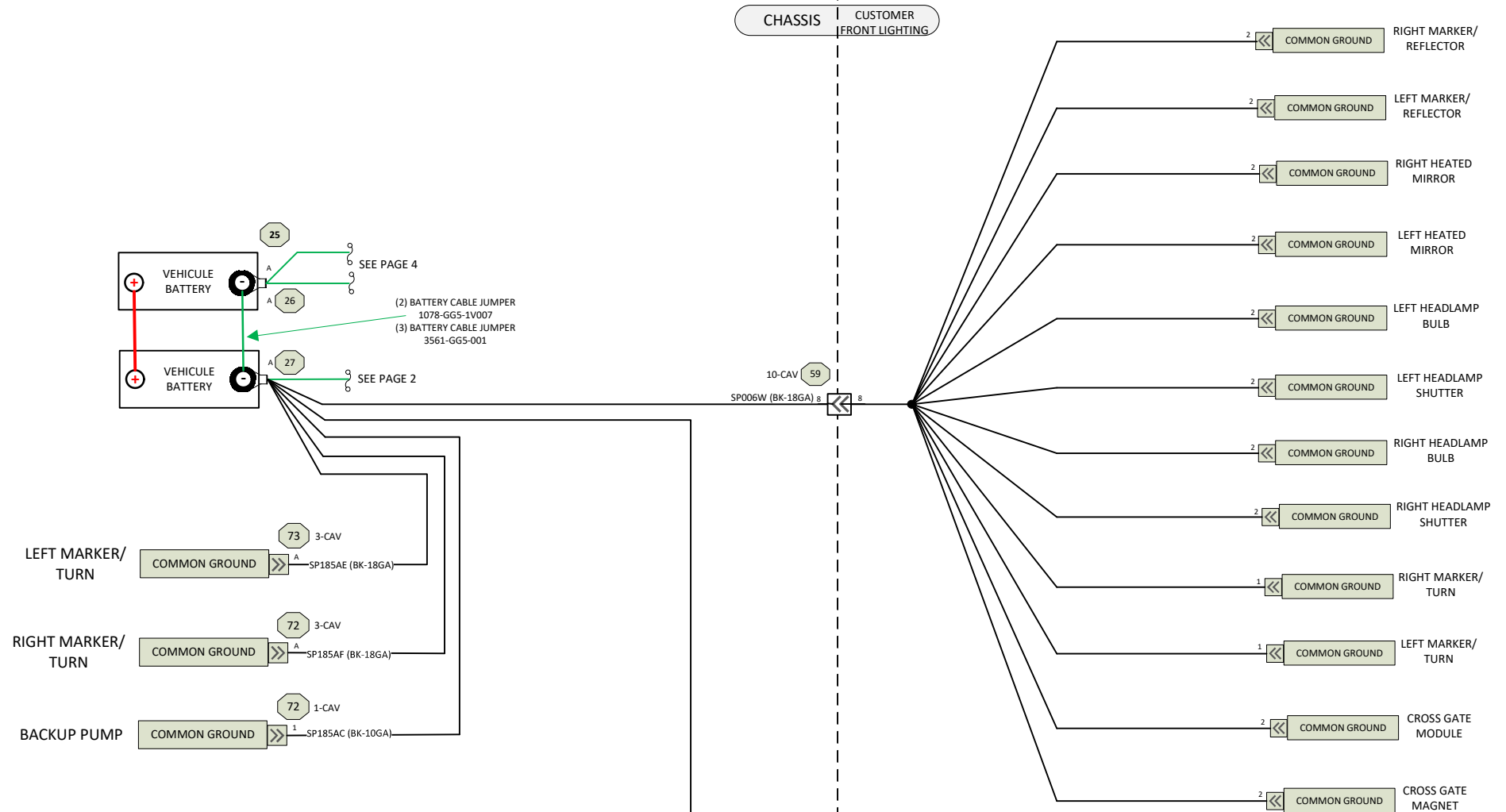
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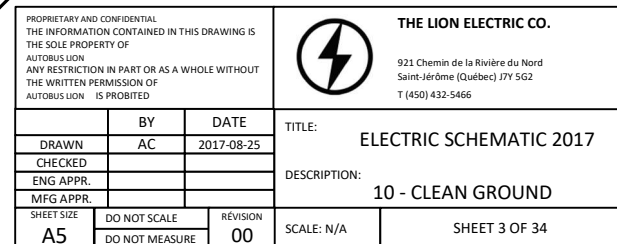
BY	DATE
DRAWN	AC
CHECKED	2017-08-25
ENG APPR.	
MFG APPR.	
SHEET SIZE	DO NOT SCALE
A5	DO NOT MEASURE
REVISION	00

TITLE: ELECTRIC SCHEMATIC 2017
DESCRIPTION: 10 - COMMON GROUND

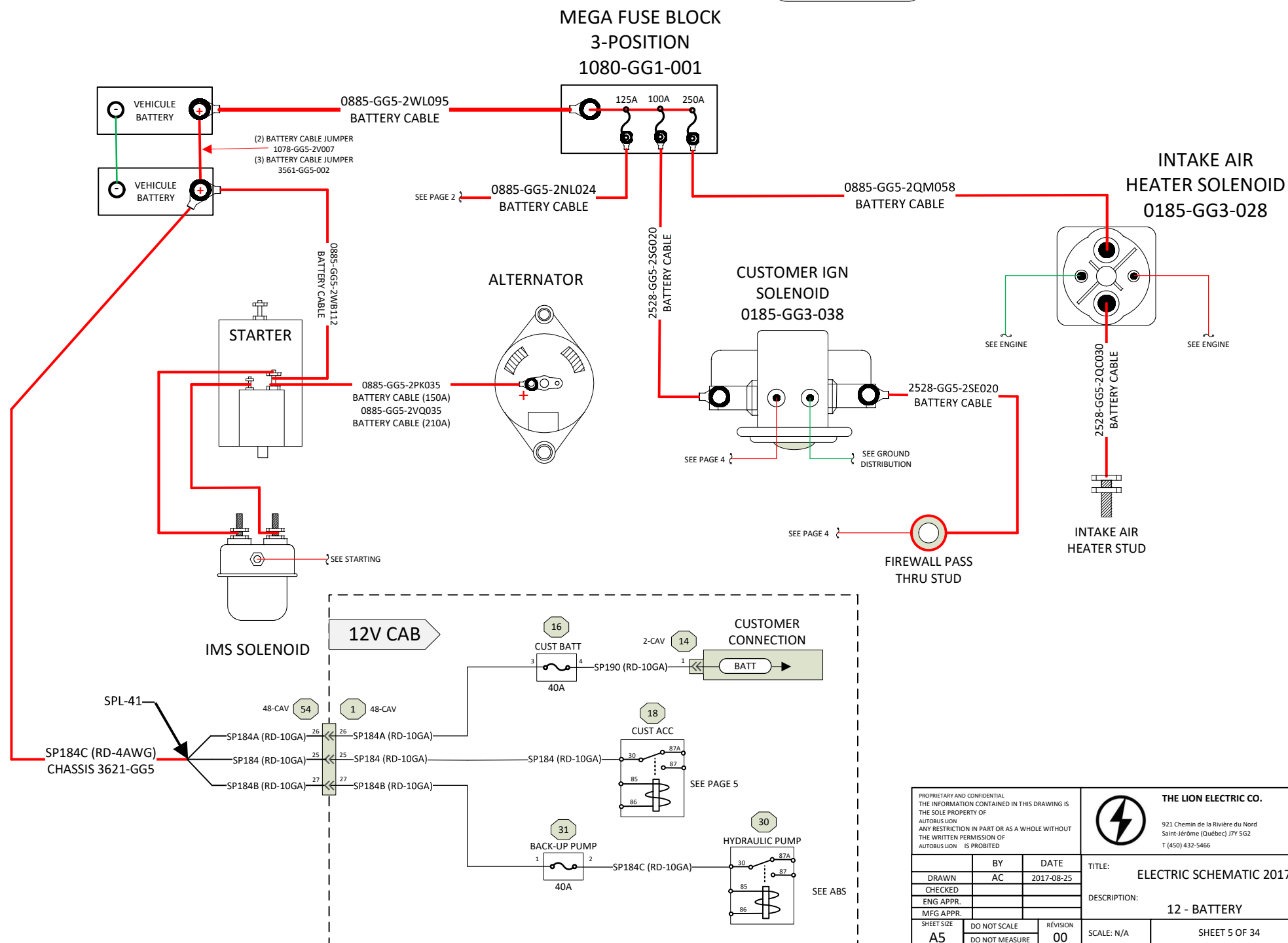
SCALE: N/A SHEET 1 OF 34



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		BY	DATE		TITLE: ELECTRIC SCHEMATIC 2017 DESCRIPTION: 10 - COMMON GROUND	
DRAWN		AC	2017-08-25			
CHECKED						
ENG APPR.						
MFG APPR.						
SHEET SIZE		DO NOT SCALE		RÉVISION	SCALE: N/A	SHEET 2 OF 34
A5		DO NOT MEASURE		00		



CHASSIS



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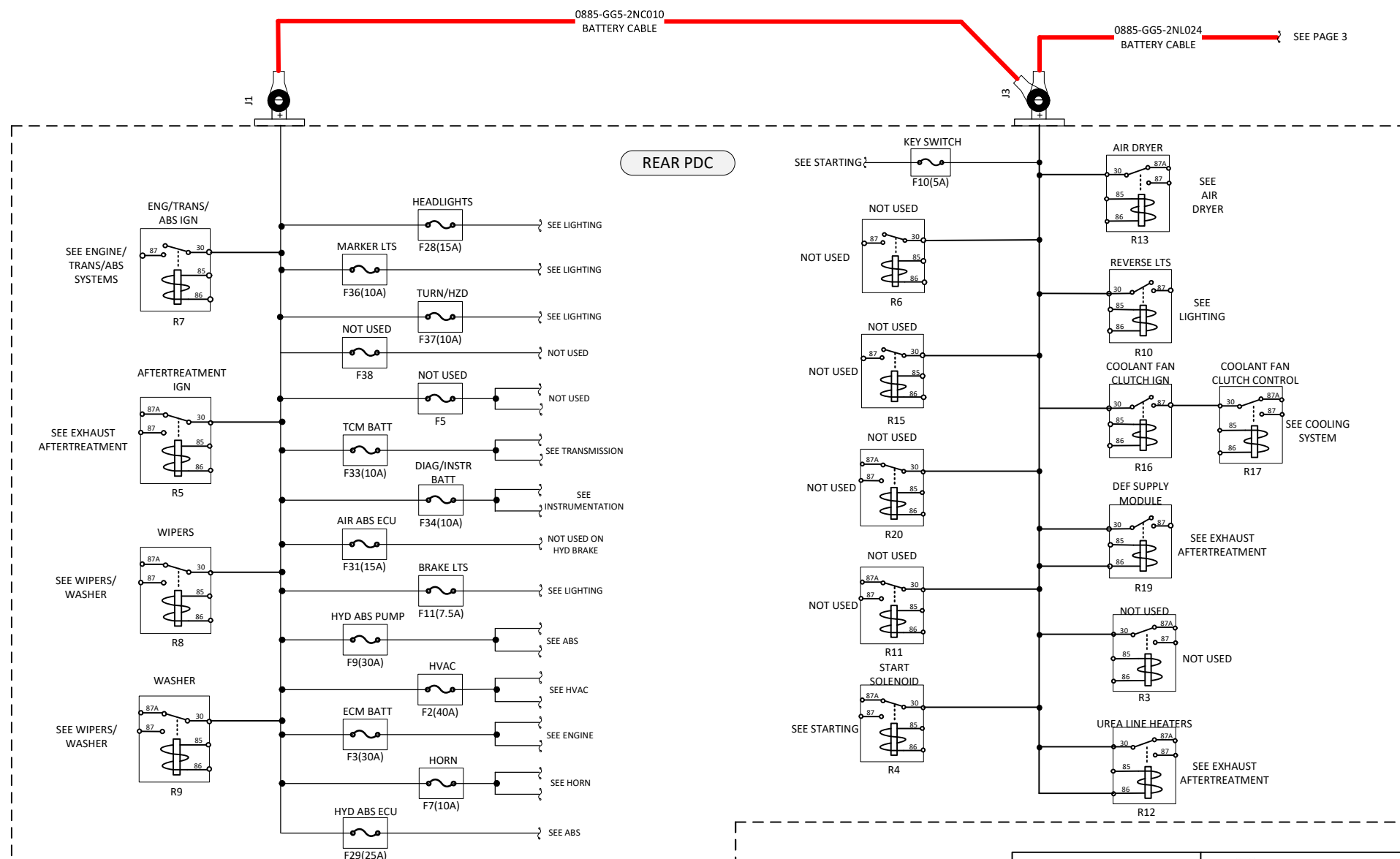
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	BY	DATE
DRAWN	AC	2017-08-25
CHECKED		
ENG APPR.		
MFG APPR.		
SHEET SIZE	DO NOT SCALE	RÉVISION
A5	DO NOT MEASURE	00

TITLE:	ELECTRIC SCHEMATIC 2017
DESCRIPTION:	12 - BATTERY
SCALE: N/A	SHEET 5 OF 34

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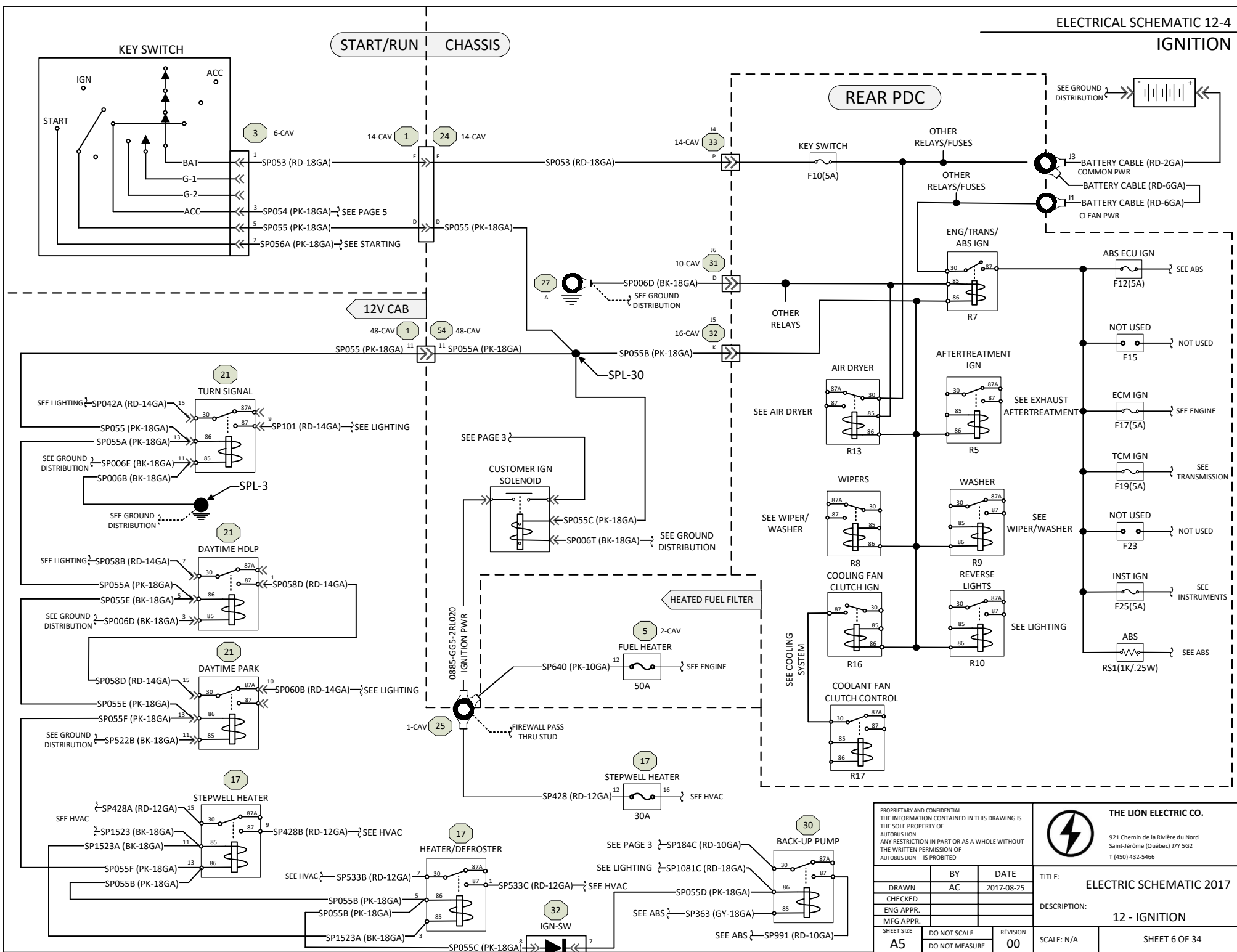


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	BY	DATE
DRAWN	AC	2017-08-25
CHECKED		
ENG APPR.		
MFG APPR.		
SHEET SIZE	DO NOT SCALE	RÉVISION
A5	DO NOT MEASURE	00

TITLE:	ELECTRIC SCHEMATIC 2017
DESCRIPTION:	12 - BATTERY
SCALE: N/A	SHEET 4 OF 34



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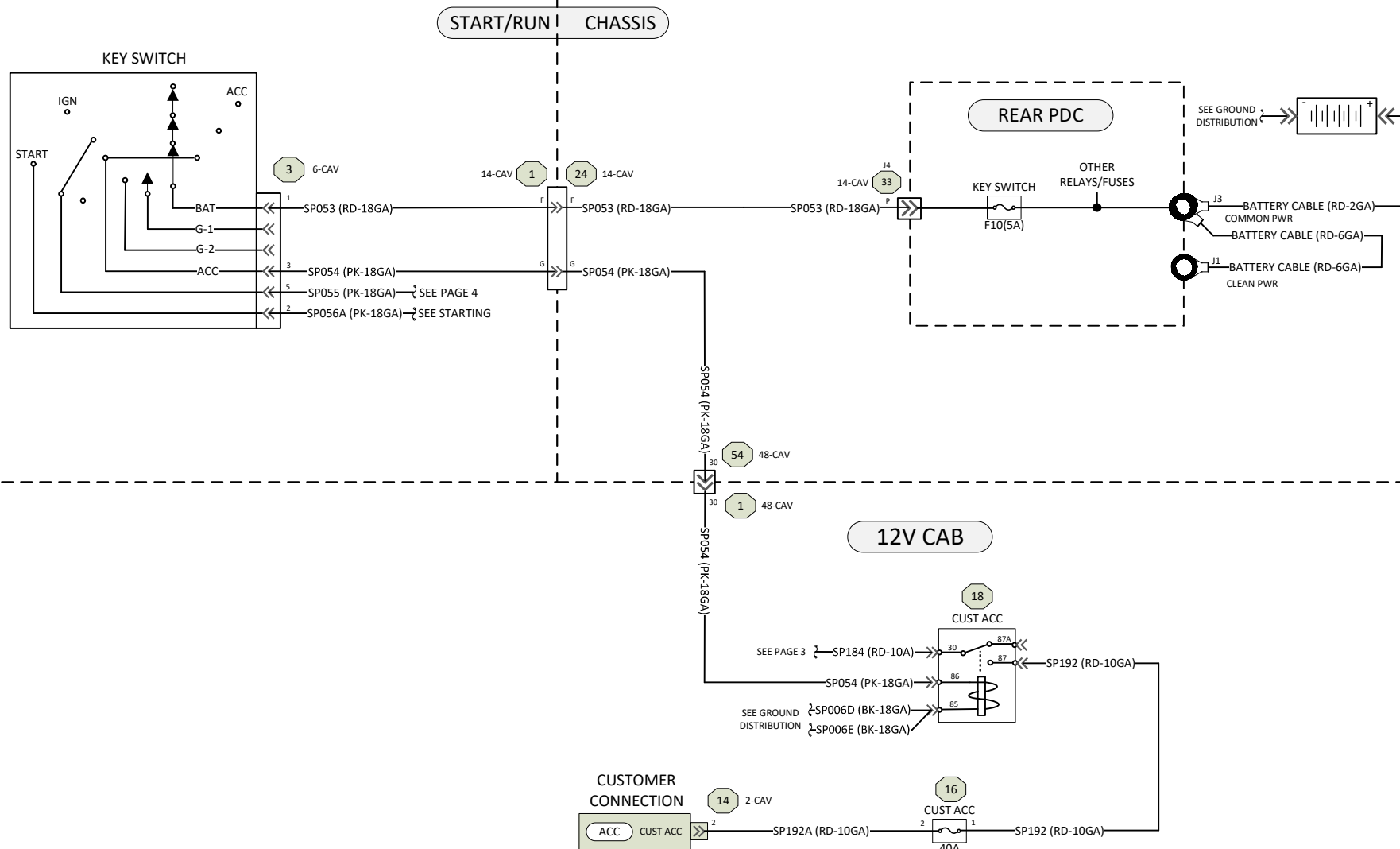


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BY	DATE
DRAWN AC	2017-08-25
CHECKED	
ENG APPR.	
MFG APPR.	
SHEET SIZE A5	DO NOT SCALE DO NOT MEASURE
REVISION 00	

TITLE:	ELECTRIC SCHEMATIC 2017
DESCRIPTION:	12 - IGNITION
SCALE: N/A	SHEET 6 OF 34



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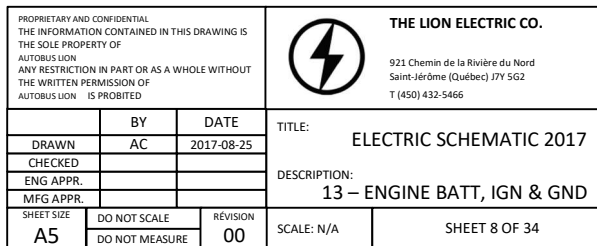
DESCRIPTION:	12 - ACCESSORY
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DO NOT SCALE
DO NOT MEASU

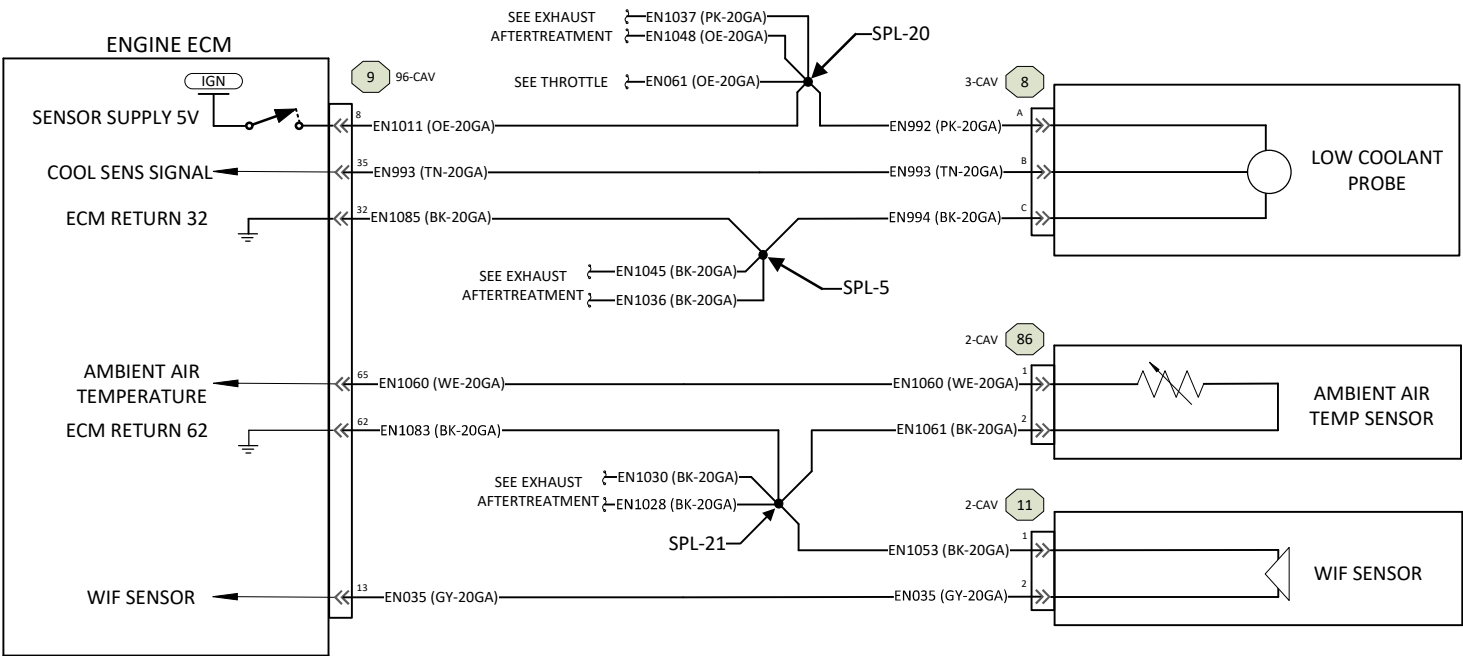
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SCALE: N/A

SHEET 7 OF 34

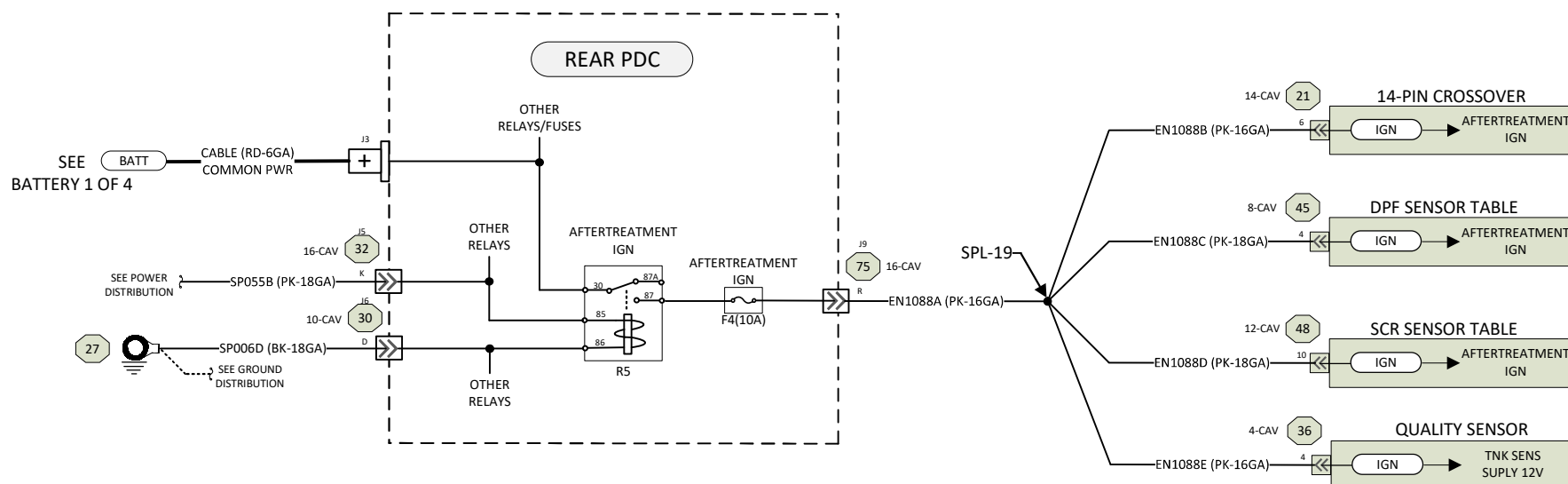


CHASSIS

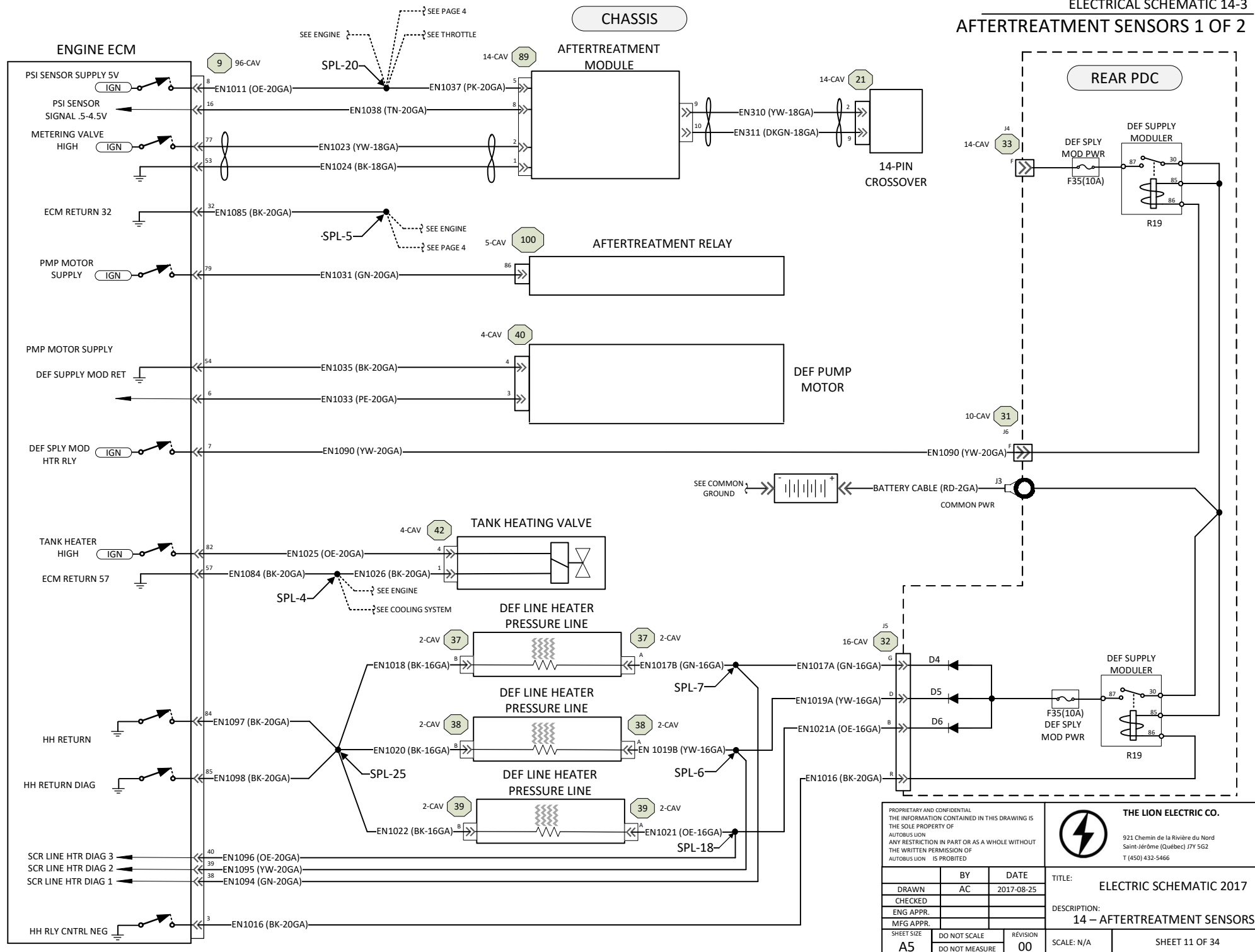


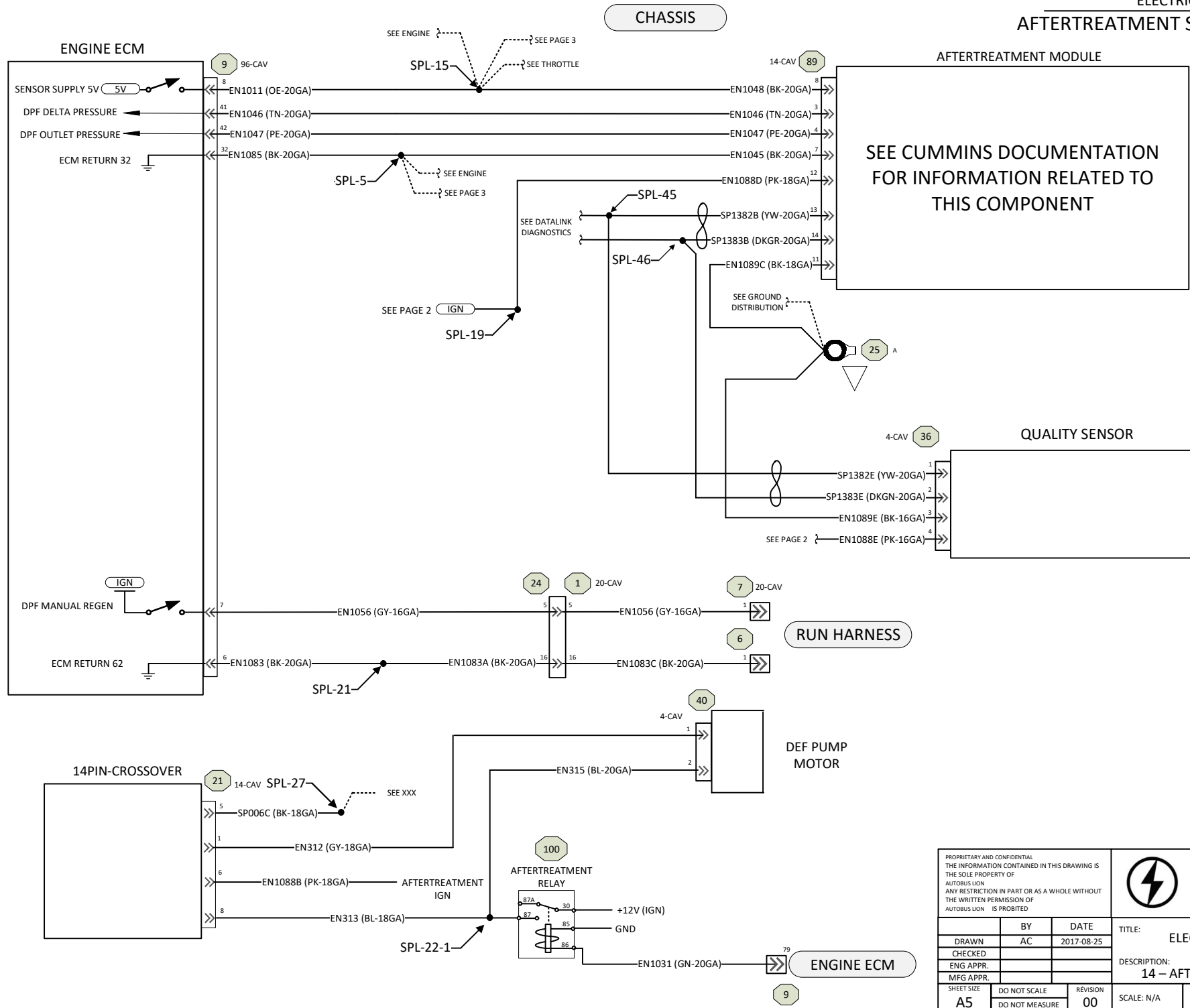
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	BY	DATE	TITLE:	
DRAWN	AC	2017-08-25	ELECTRIC SCHEMATIC 2017	
CHECKED			DESCRIPTION:	
ENG APPR.			13 – ECM SENSORS	
MFG APPR.				
SHEET SIZE	DO NOT SCALE	RÉVISION	SCALE: N/A	SHEET 9 OF 34
A5	DO NOT MEASURE	00		

CHASSIS



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BY	AC	DATE	TITLE: ELECTRIC SCHEMATIC 2017 DESCRIPTION: 14 - AFTERTREATMENT BATT, IGN & GND	
DRAWN	AC	2017-08-25		
CHECKED				
ENG APPR.				
MFG APPR.			SCALE: N/A SHEET 10 OF 34	
SHEET SIZE	DO NOT SCALE	DO NOT MEASURE		
A5		00		





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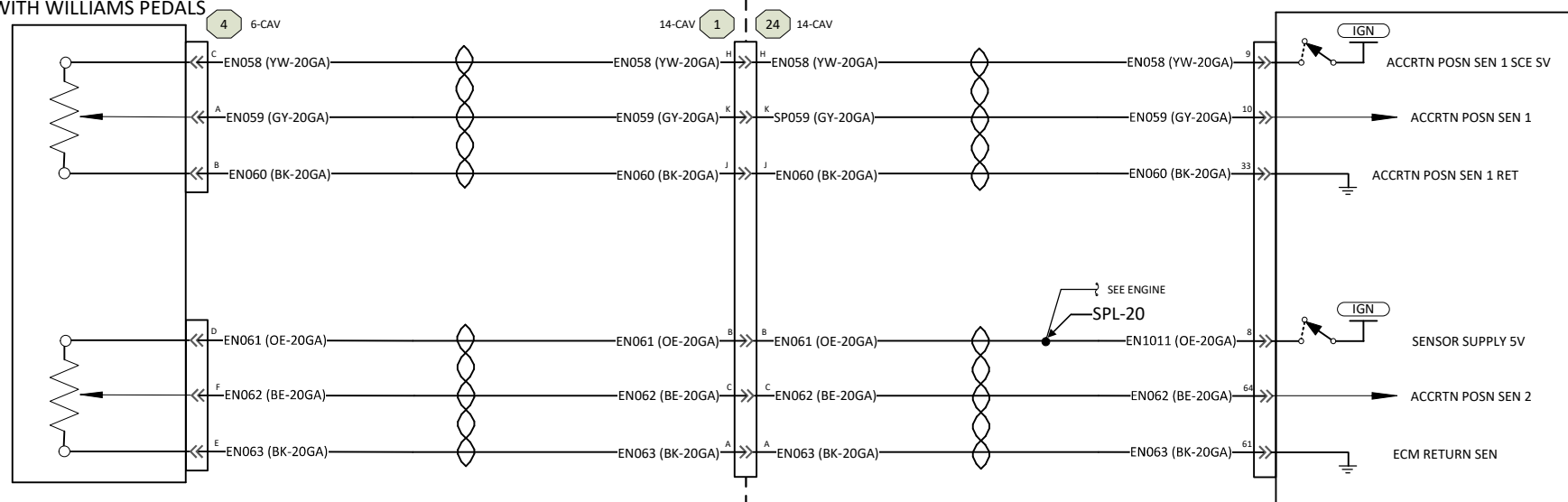
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DRAWN	AC	2017-08-25
CHECKED		
ENG APPR.		
MFG APPR.		
SHEET SIZE	DO NOT SCALE	RÉVISION
A5	DO NOT MEASURE	00

TITLE:	ELECTRIC SCHEMATIC 2017
DESCRIPTION:	14 – AFTERTREATMENT SENSORS
SCALE: N/A	SHEET 12 OF 34

SCHEMATICS THROTTLE PEDAL

START/RUN CHASSIS

CUMMINS THROTTLE
WITH WILLIAMS PEDALS

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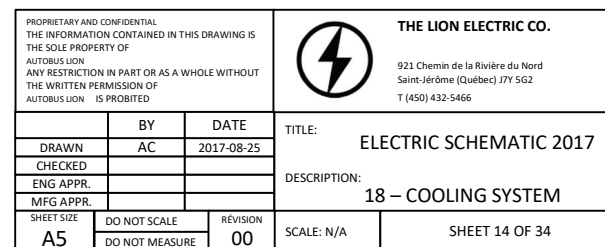
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	BY	DATE
DRAWN	AC	2017-08-25
CHECKED		
ENG APPR.		
MFG APPR.		
SHEET SIZE	DO NOT SCALE	RÉVISION
A5	DO NOT MEASURE	00

TITLE:	ELECTRIC SCHEMATIC 2017
DESCRIPTION:	17 - THROTTLE
SCALE: N/A	SHEET 13 OF 34

SCHEMATICS COOLING SYSTEM

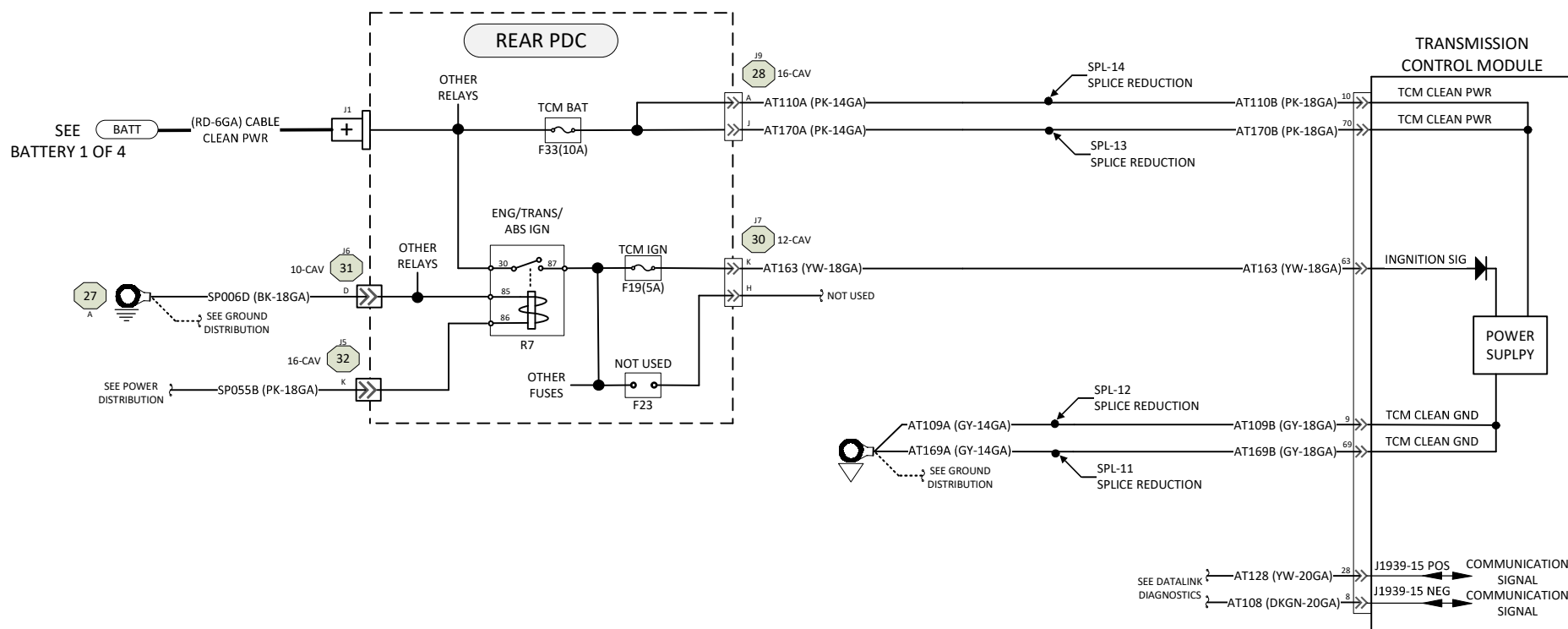


SCHEMATICS

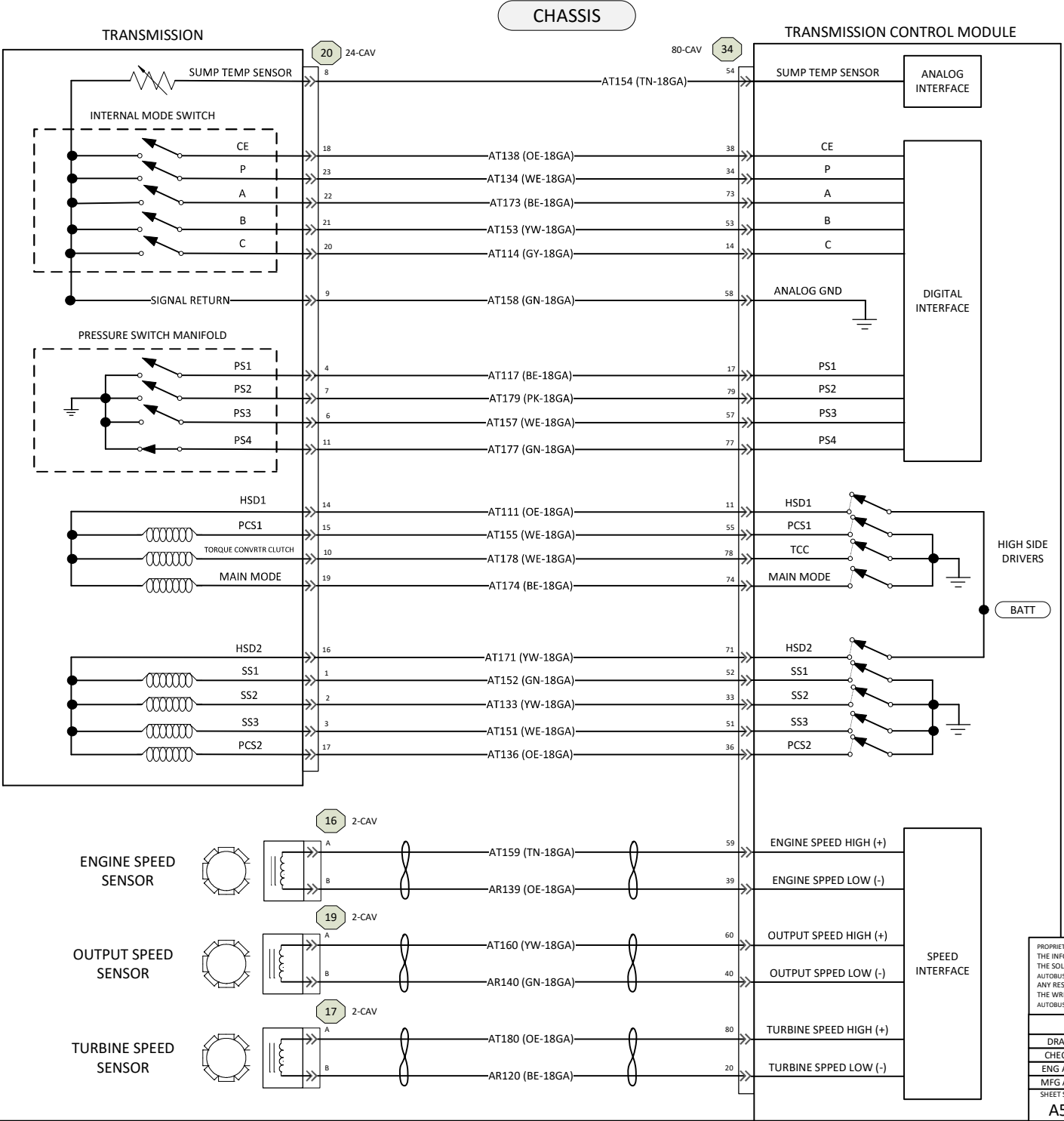
GROUND DISTRIBUTION

SCHEMATICS TRANSMISSION

CHASSIS



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BY	AC	DATE	TITLE: ELECTRIC SCHEMATIC 2017	
CHECKED		2017-08-25	DESCRIPTION:	
ENG APPR.			19 – TRANSMISSION BATT, IGN & GND	
MFG APPR.			SCALE: N/A	
SHEET SIZE	DO NOT SCALE	RÉVISION	SHEET 15 OF 34	
A5	DO NOT MEASURE	00		



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	BY	DATE
DRAWN	AC	2017-08-25
CHECKED		
ENG APPR.		
MFG APPR.		
SHEET SIZE	DO NOT SCALE	RÉVISION
A5	DO NOT MEASURE	00



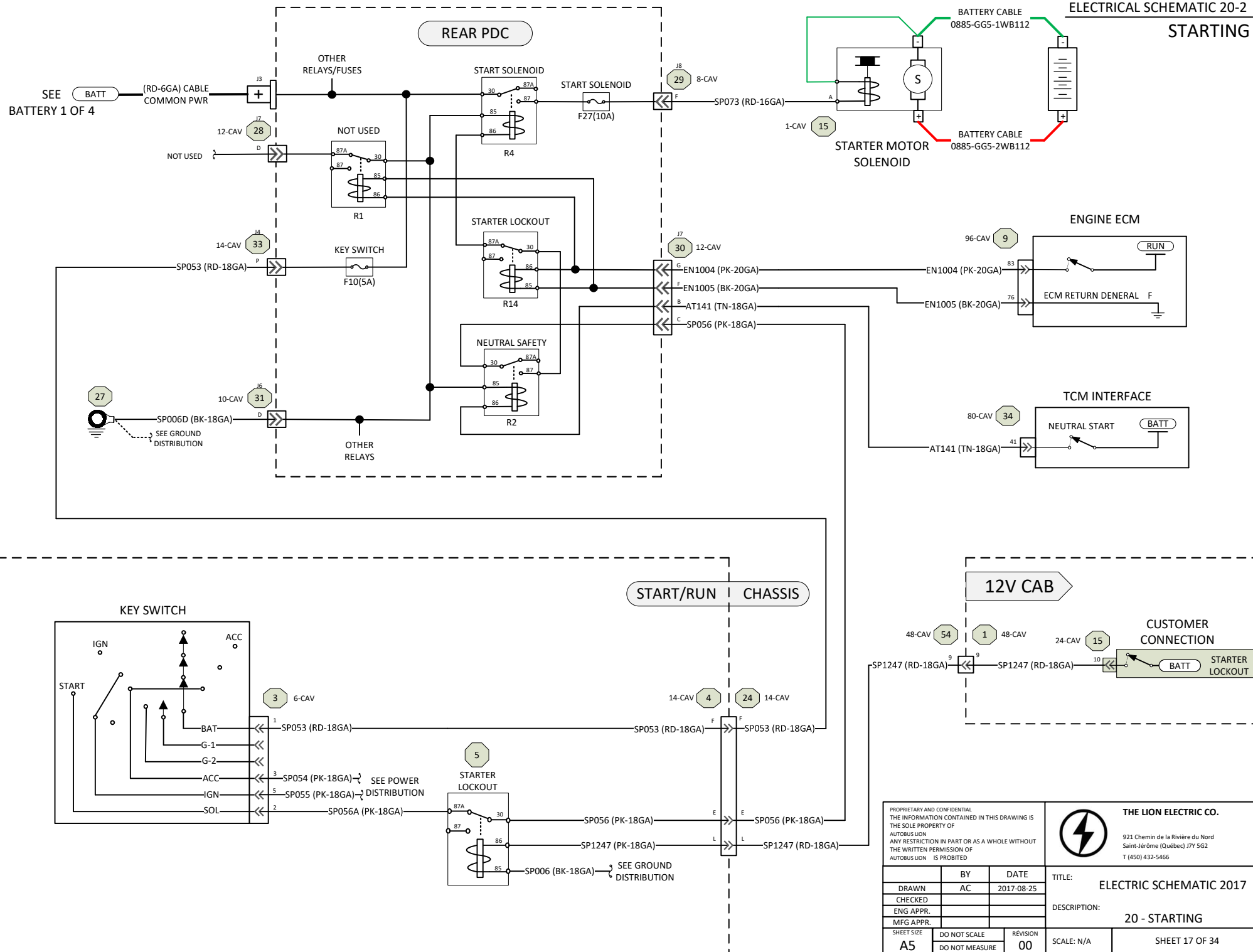
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TITLE: ELECTRIC SCHEMATIC 2017
DESCRIPTION: 19 – TRANSMISSION ECU

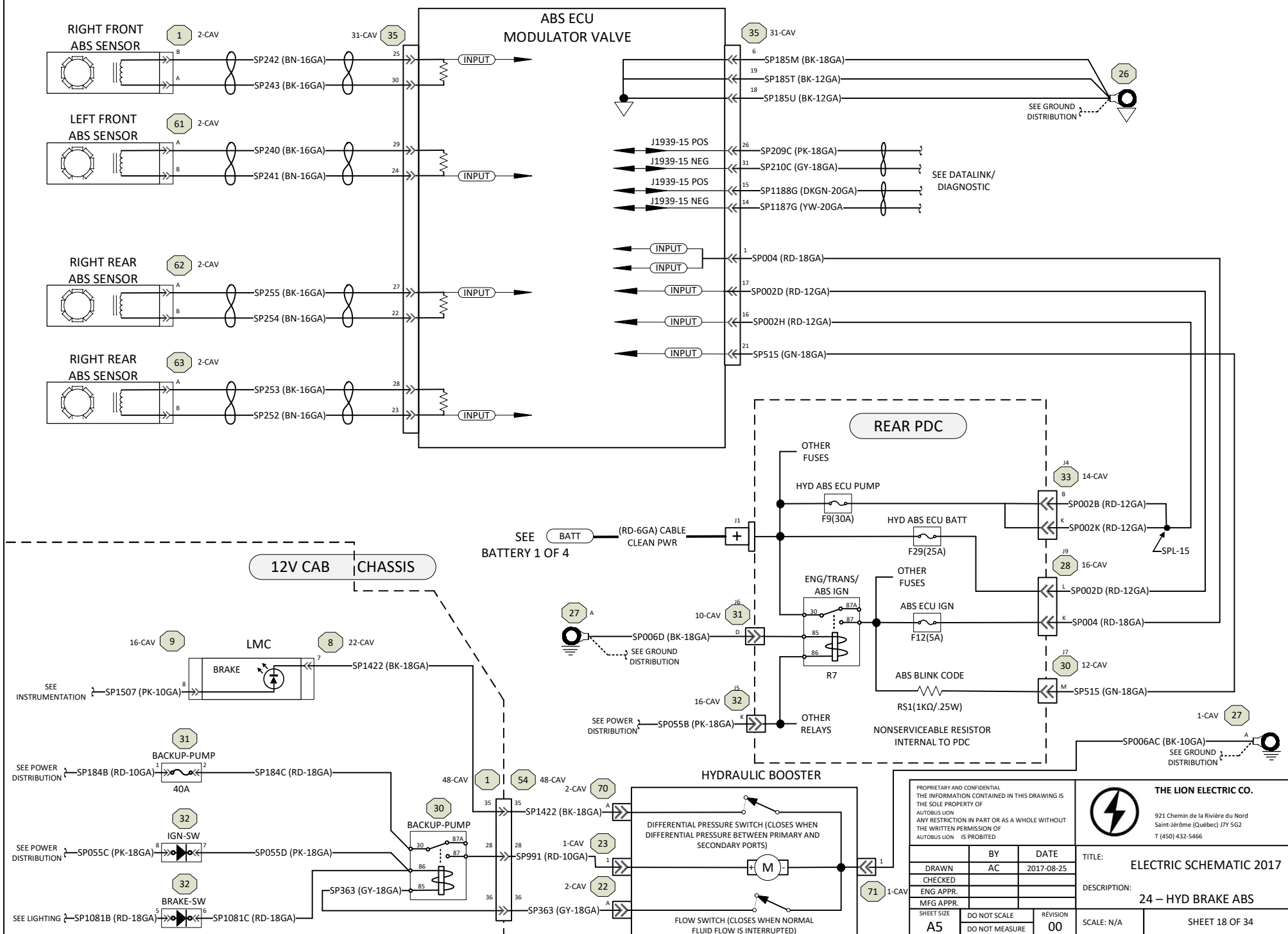
SCALE: N/A SHEET 16 OF 34

SCHEMATICS STARTING SYSTEMS

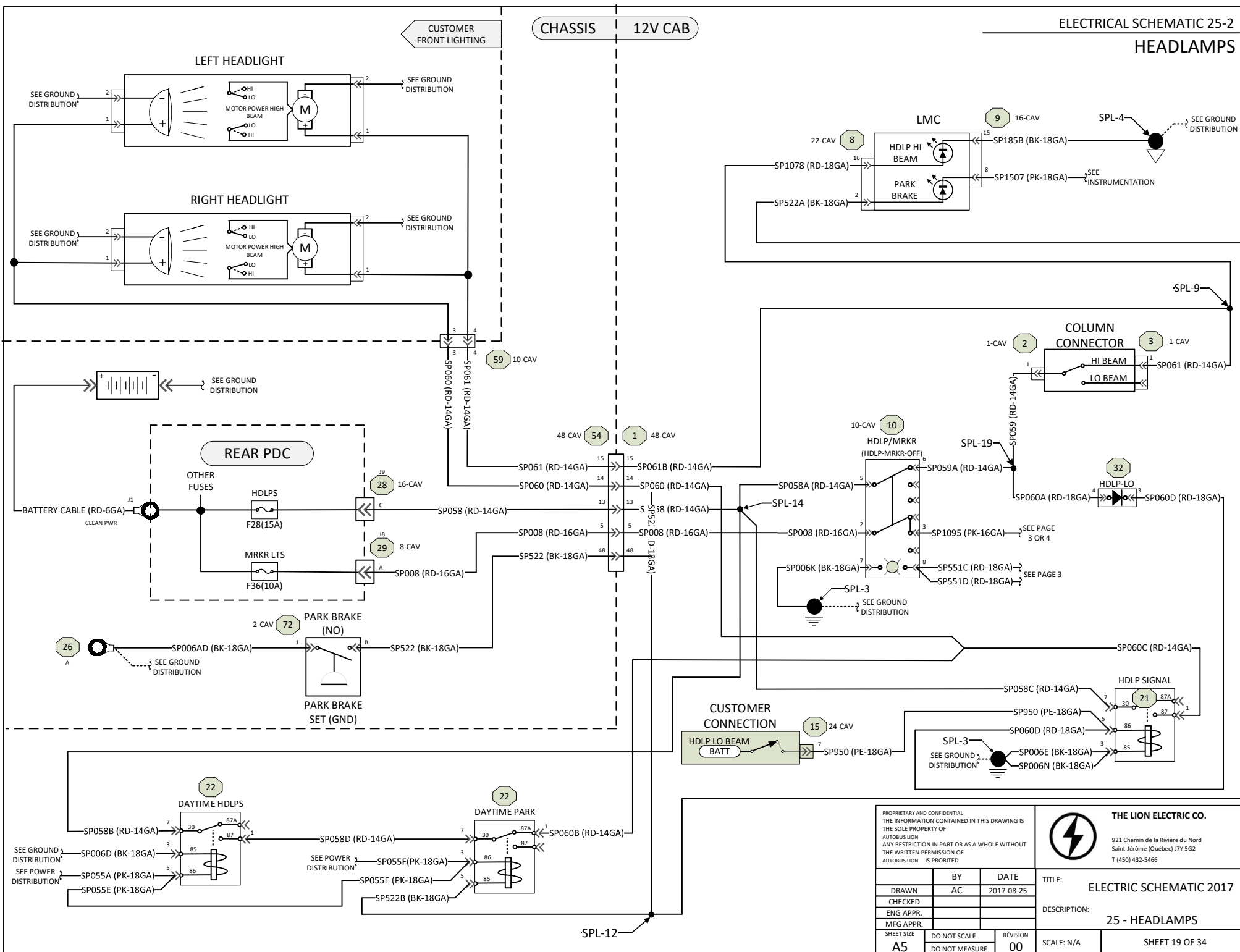


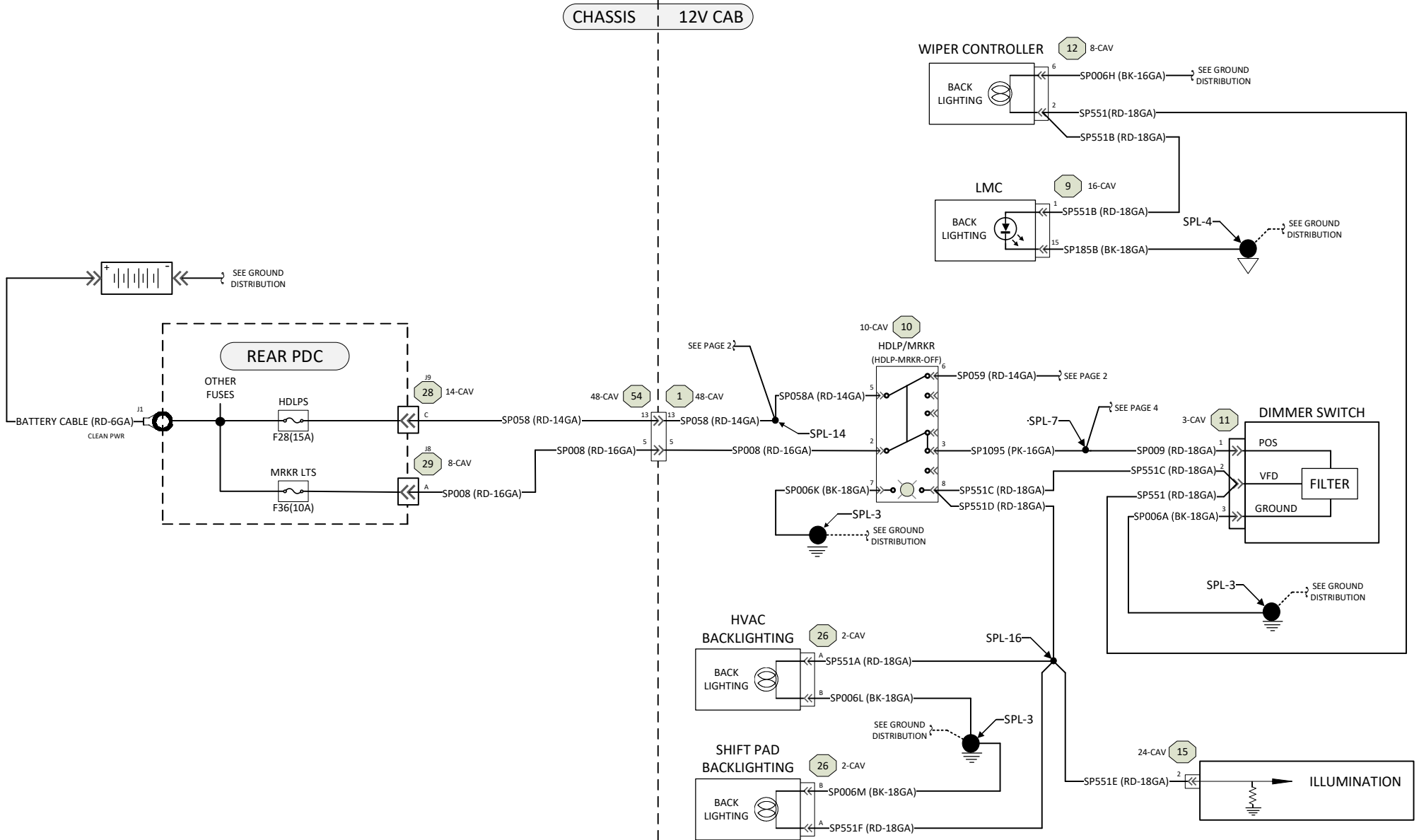
SCHEMATICS

ABS SYSTEM

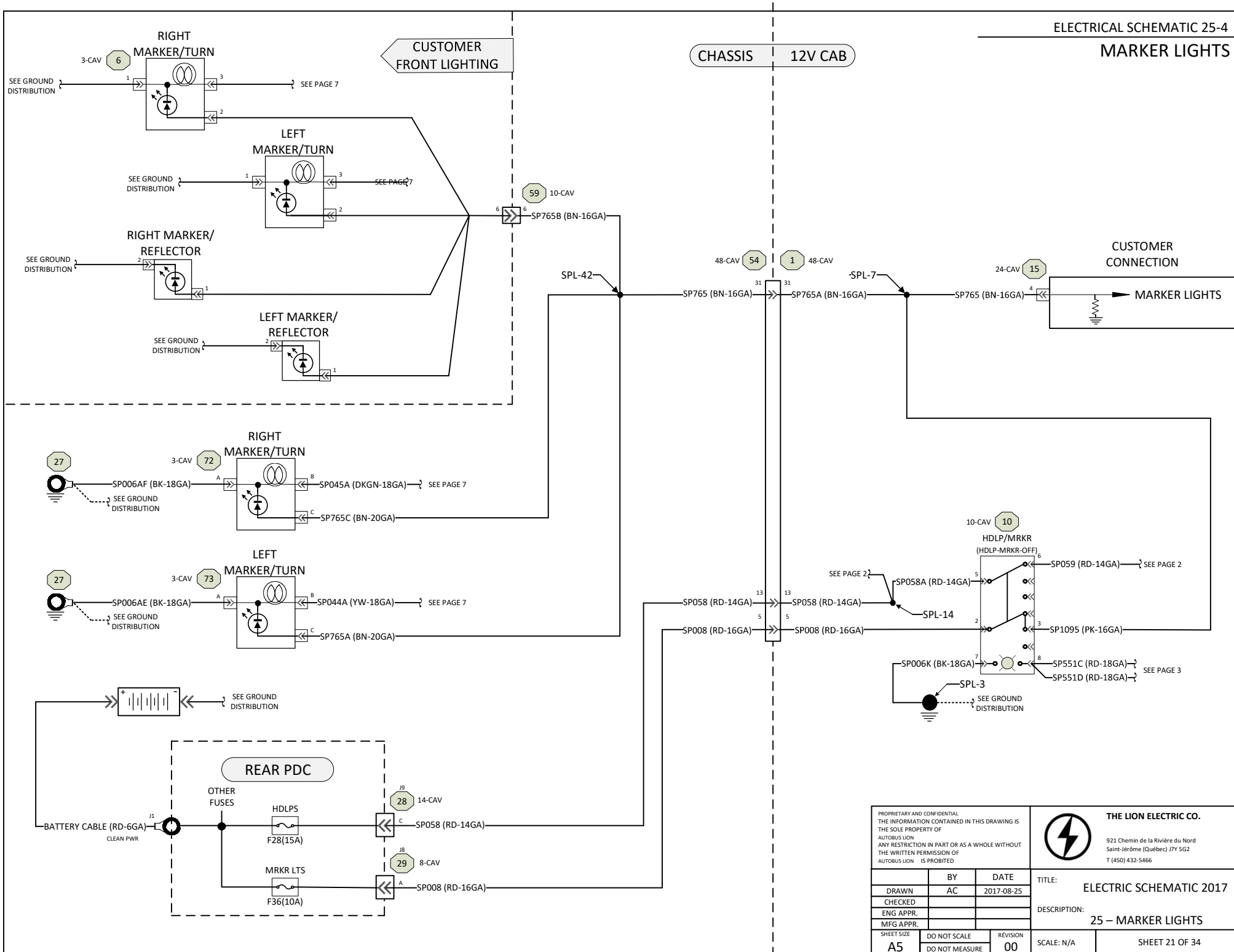


SCHEMATICS LIGHTING





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BY		DATE		TITLE: ELECTRIC SCHEMATIC 2017 DESCRIPTION: 25 - ILLUMINATION	
DRAWN		AC 2017-08-25			
CHECKED					
ENG APPR.					
MFG APPR.					
SHEET SIZE		DO NOT SCALE		SCALE: N/A	SHEET 20 OF 34
A5		DO NOT MEASURE 00			



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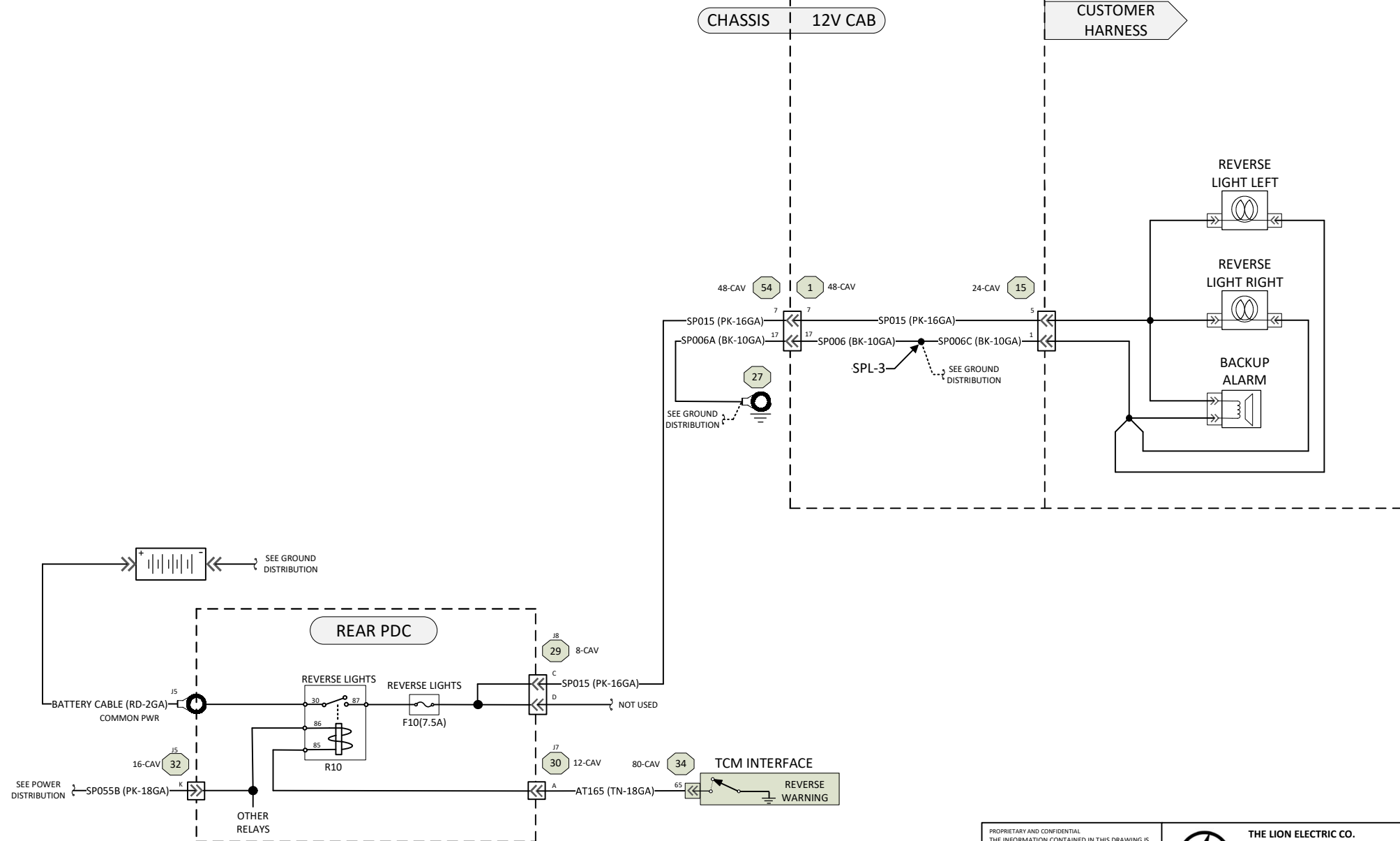
THE LION ELECTRIC CO.

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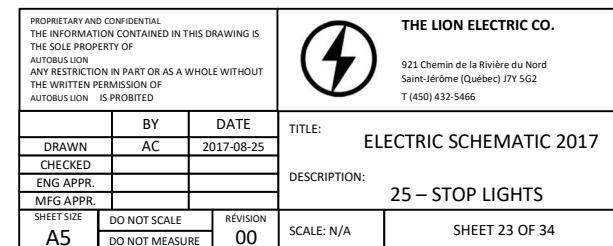
	BY	DATE
DRAWN	AC	2017-08-25
CHECKED		
ENG APPR.		
MFG APPR.		
SHEET SIZE	DO NOT SCALE	RÉVISION
A5	DO NOT MEASURE	00

TITLE:	ELECTRIC SCHEMATIC 2017
DESCRIPTION:	25 – MARKER LIGHTS
SCALE: N/A	SHEET 21 OF 34

REVERSE LIGHTS



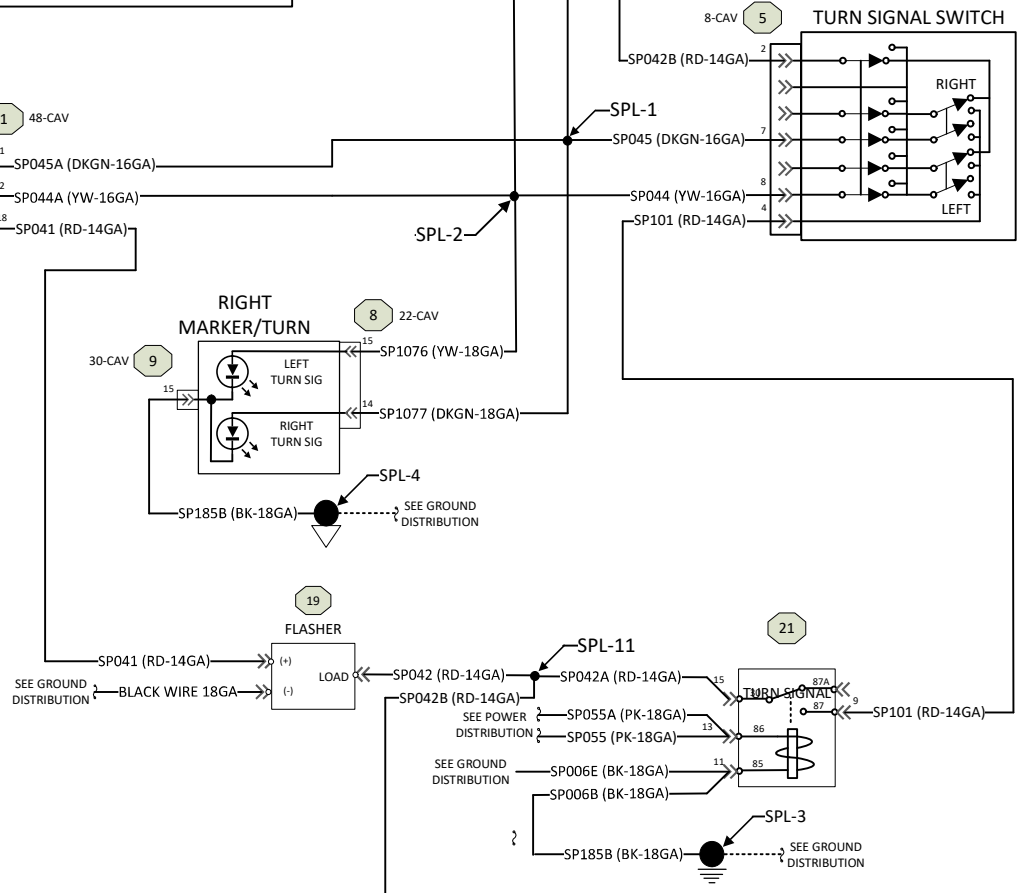
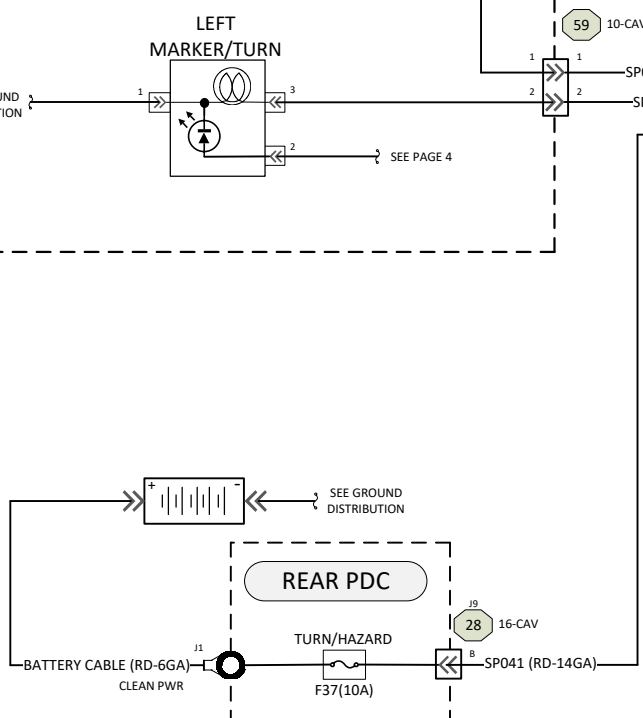
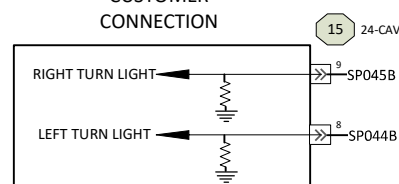
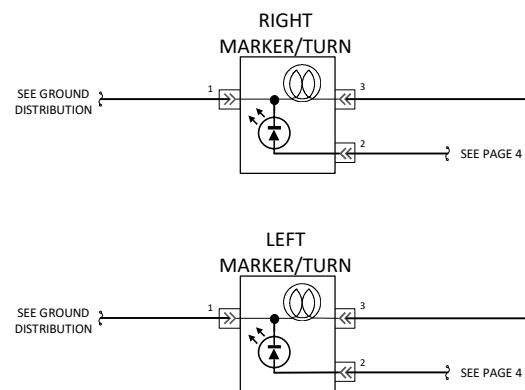
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF AUTOBUS LION ANY RESTRICTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF AUTOBUS LION IS PROHIBITED			 THE LION ELECTRIC CO. 921 Chemin de la Rivière du Nord Saint-Jérôme (Québec) J7Y 5G2 T (450) 432-5466	
BY	AC	DATE	TITLE:	
DRAWN	AC	2017-08-25	DESCRIPTION:	
CHECKED			25 – REVERSE LIGHTS	
ENG APPR.				
MFG APPR.				
SHEET SIZE	DO NOT SCALE	RÉVISION	SCALE: N/A	SHEET 22 OF 34
A5	DO NOT MEASURE	00		



CUSTOMER
FRONT LIGHTING

CHASSIS

12V CAB

CUSTOMER
CONNECTION

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T (450) 432-5466

BY	DATE
AC	2017-08-25
CHECKED	
ENG APPR.	
MFG APPR.	
SHEET SIZE	DO NOT SCALE
A5	DO NOT MEASURE
REVISION	00

TITLE: ELECTRIC SCHEMATIC 2017

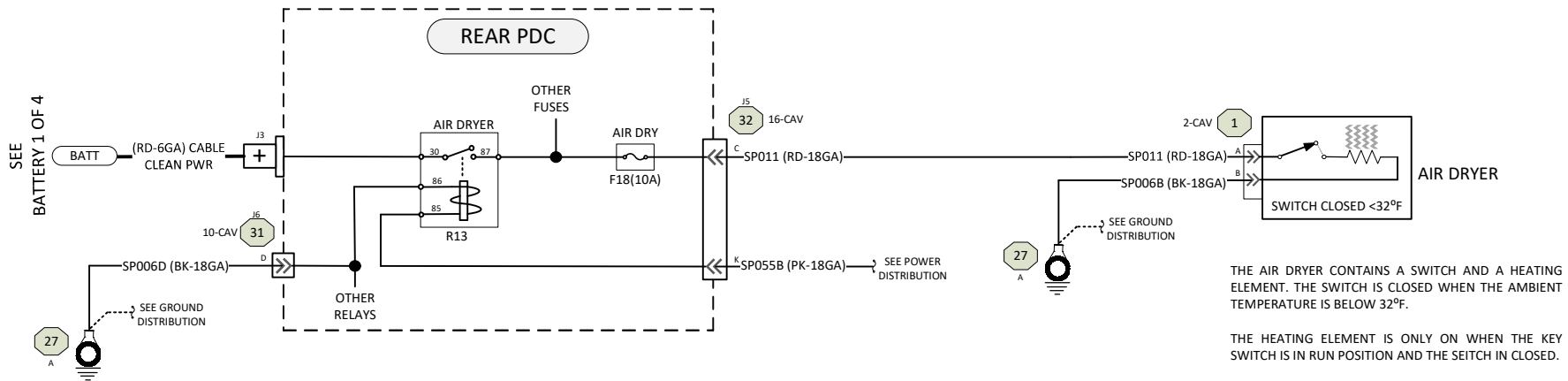
DESCRIPTION: 25 – TURN SIGNALS

SCALE: N/A

SHEET 24-34

SCHEMATICS AIR SYSTEM

CHASSIS



THE AIR DRYER CONTAINS A SWITCH AND A HEATING ELEMENT. THE SWITCH IS CLOSED WHEN THE AMBIENT TEMPERATURE IS BELOW 32°F.

THE HEATING ELEMENT IS ONLY ON WHEN THE KEY SWITCH IS IN RUN POSITION AND THE SEITCH IN CLOSED.

**AIR DRYER ONLY USED ON CHASSIS WITH AIR SUSPENSION AND HYDRAULIC BRAKES. SPRING SUSPENSION CHASSIS DON'T HAVE AN AIR DRYER.

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BY		DATE		TITLE: ELECTRIC SCHEMATIC 2017	
DRAWN AC		2017-08-25			
CHECKED				DESCRIPTION: 26 – AIR DRYER	
ENG APPR.					
MFG APPR.					
SHEET SIZE A5		DO NOT SCALE DO NOT MEASURE		SCALE: N/A	SHEET 25 OF 34
		00			

SCHEMATICS

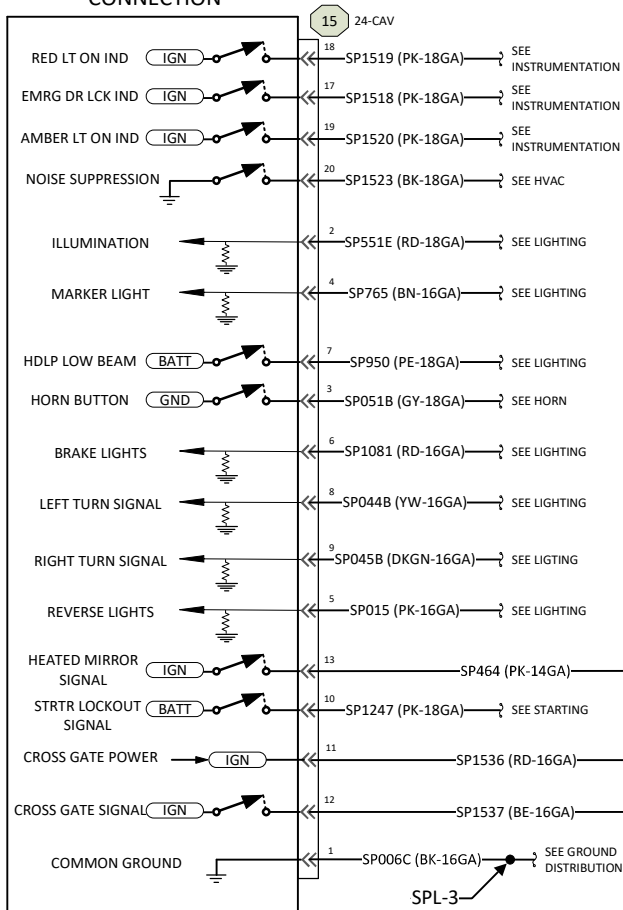
OEM INTERFACE

12V CAB

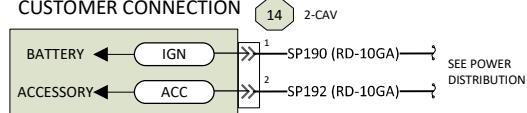
CHASSIS

12V CAB

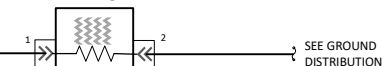
CUSTOMER CONNECTION



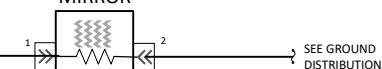
CUSTOMER CONNECTION



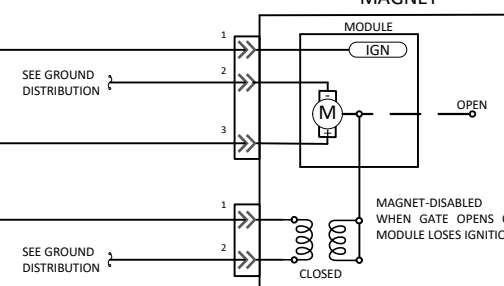
RIGHT HEATED MIRROR



LEFT HEATED MIRROR



CROSS GATE WITH MAGNET



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BY	DATE
AC	2017-08-25
CHECKED	
ENG APPR.	
MFG APPR.	
SHEET SIZE	DO NOT SCALE
A5	DO NOT MEASURE

TITLE: ELECTRIC SCHEMATIC 2017

DESCRIPTION: 30 – OEM CONNECTIONS

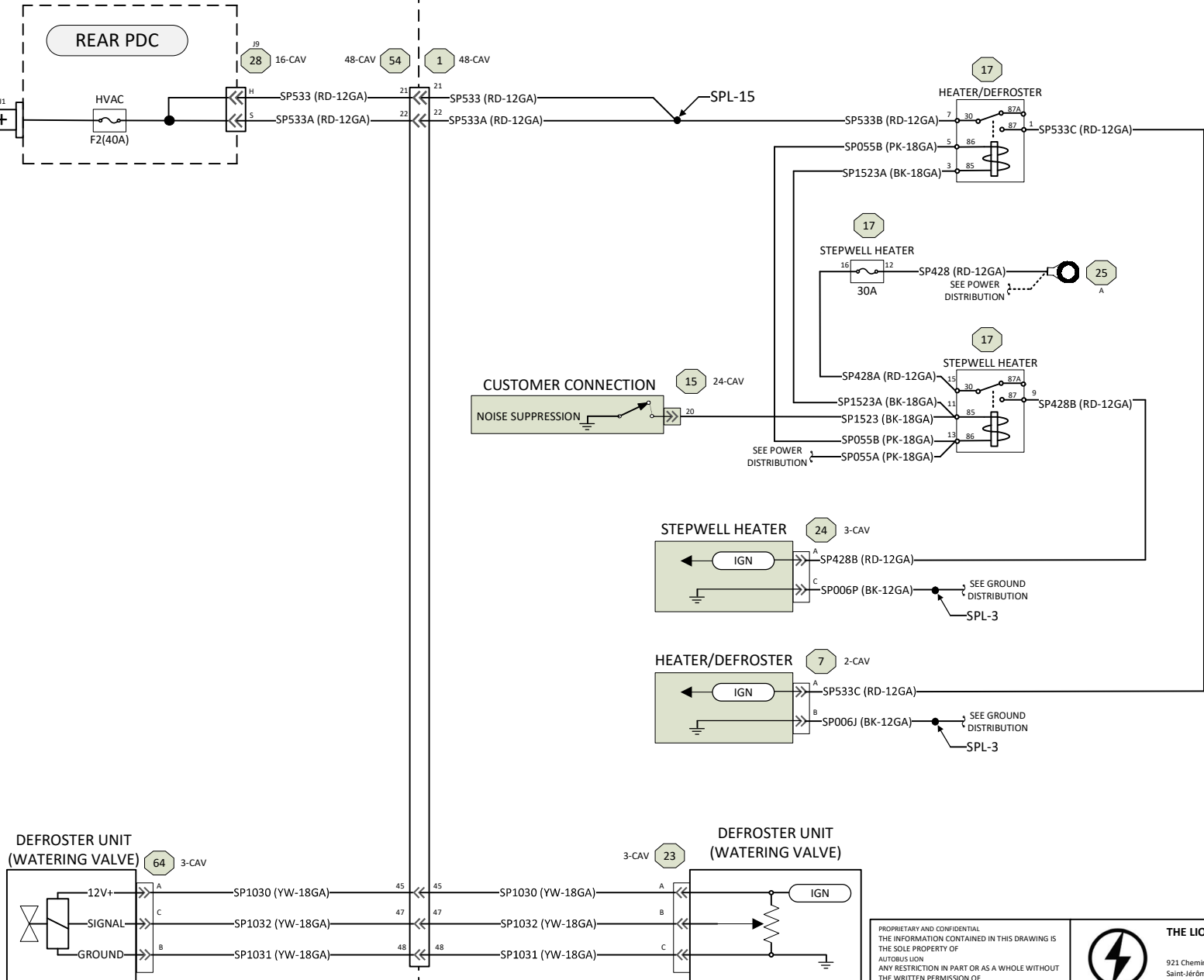
SCALE: N/A

SHEET 26 OF 36

SCHEMATICS HVAC SYSTEM

SEE
BATTERY 1 OF 4

CHASSIS 12V CAB



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BY	DATE
AC	2017-08-25
CHECKED	
ENG APPR.	
MFG APPR.	

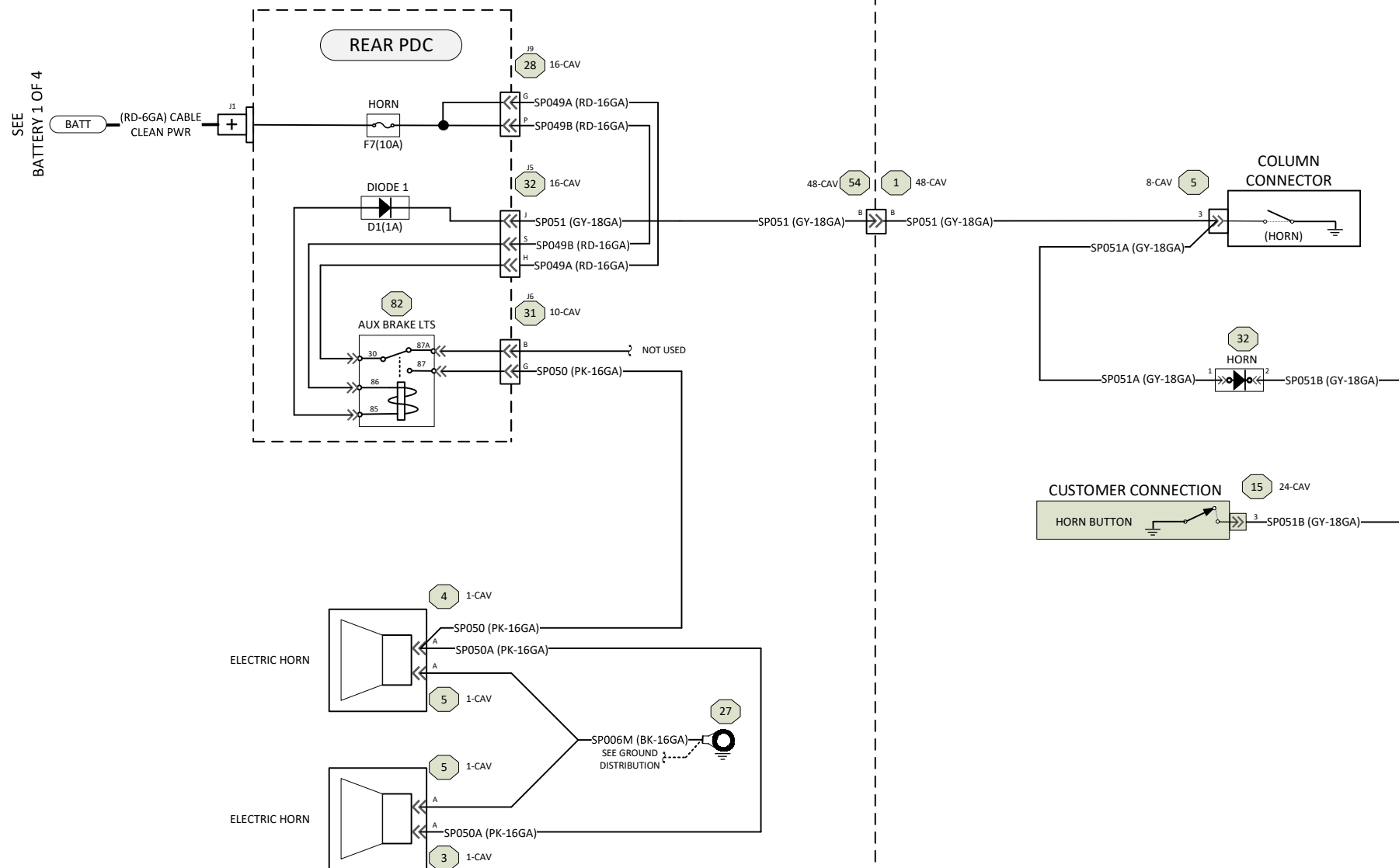
SHEET SIZE	DO NOT SCALE	RÉVISION
A5	DO NOT MEASURE	00

TITLE: ELECTRIC SCHEMATIC 2017

DESCRIPTION: 39 - HVAC

SCALE: N/A SHEET 27 OF 34

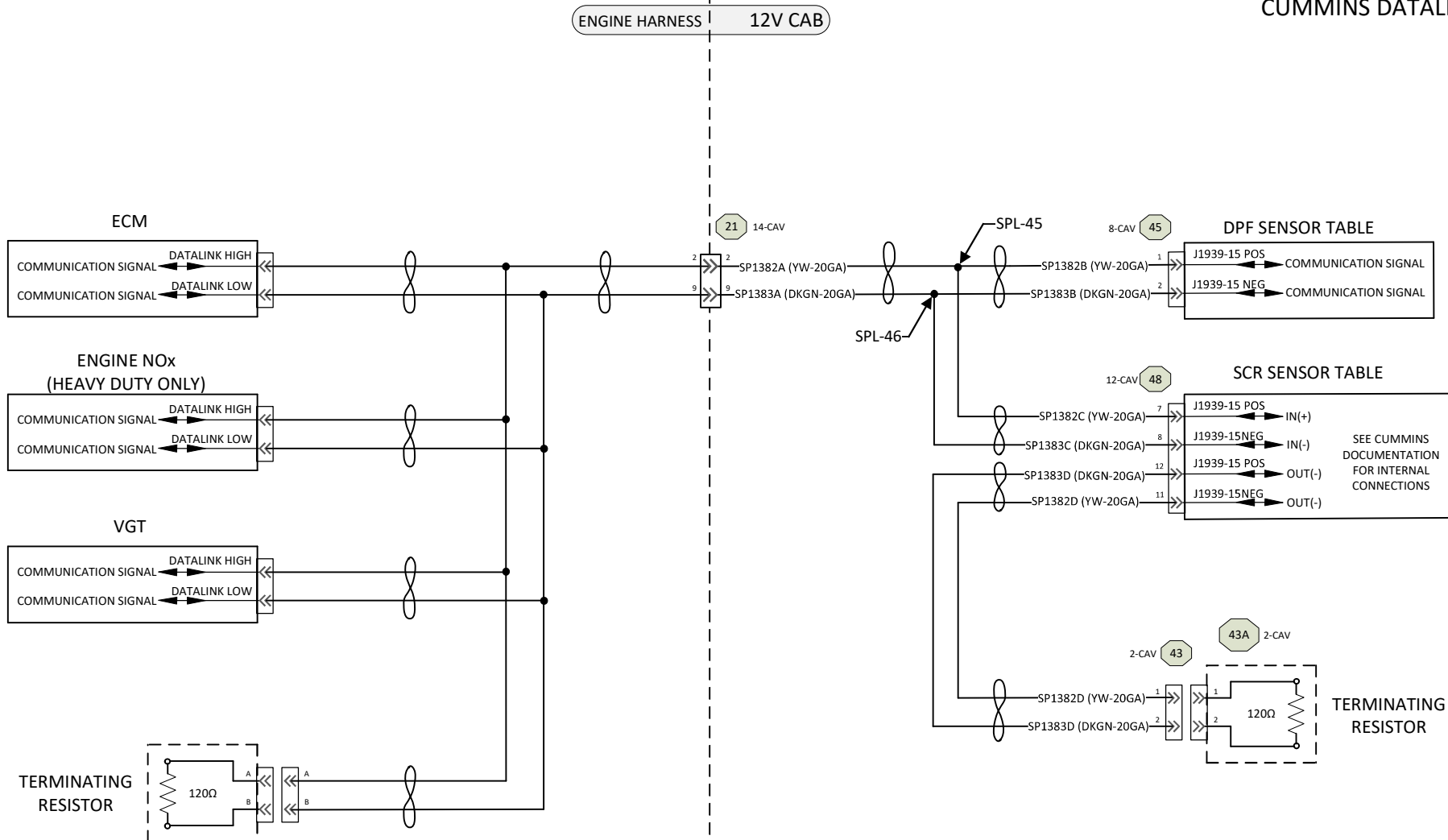
SCHEMATICS HORN



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	BY	DATE	TITLE: ELECTRIC SCHEMATIC 2017 DESCRIPTION: 40 - HORN	
DRAWN	AC	2017-08-25		
CHECKED				
ENG APPR.				
MFG APPR.			SCALE: N/A SHEET 28 OF 34	
SHEET SIZE	DO NOT SCALE	RÉVISION		
A5	DO NOT MEASURE	00		

SCHEMATICS

DATALINK DIAGNOSTICS



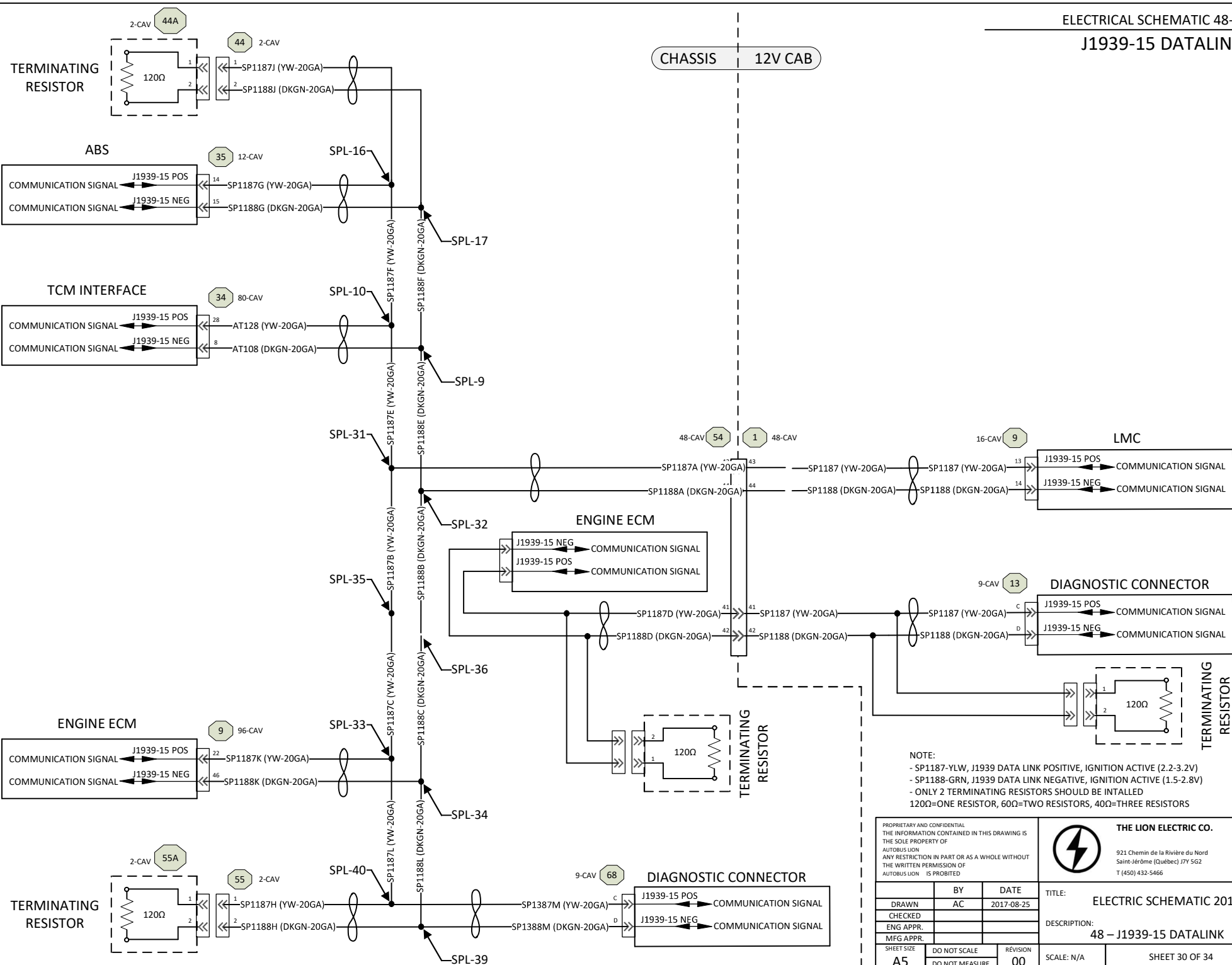
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BY	DATE	TITLE
AC	2017-08-25	ELECTRIC SCHEMATIC 2017
CHECKED		DESCRIPTION:
ENG APPR.		48 – CUMMINS DATALINK
MFG APPR.		SCALE: N/A
SHEET SIZE	DO NOT SCALE	REVISION
A5	DO NOT MEASURE	00
		SHEET 29 OF 34

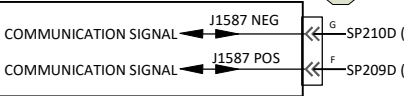


J1587 DATALINK

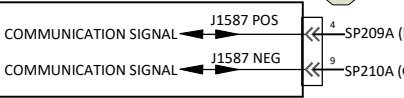
CHASSIS

12V CAB

DIAGNOSTICS CONNECTOR



ABS



SPL-28

SPL29

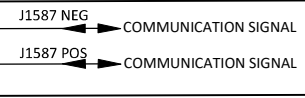
48-CAV 54

1 48-CAV

SPL-6

16-CAV 9

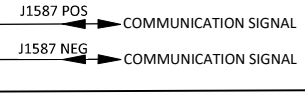
LMC



SPL-5

9-CAV 13

DIAGNOSTIC CONNECTOR



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	BY	DATE
DRAWN	AC	2017-08-25
CHECKED		
ENG APPR.		
MFG APPR.		

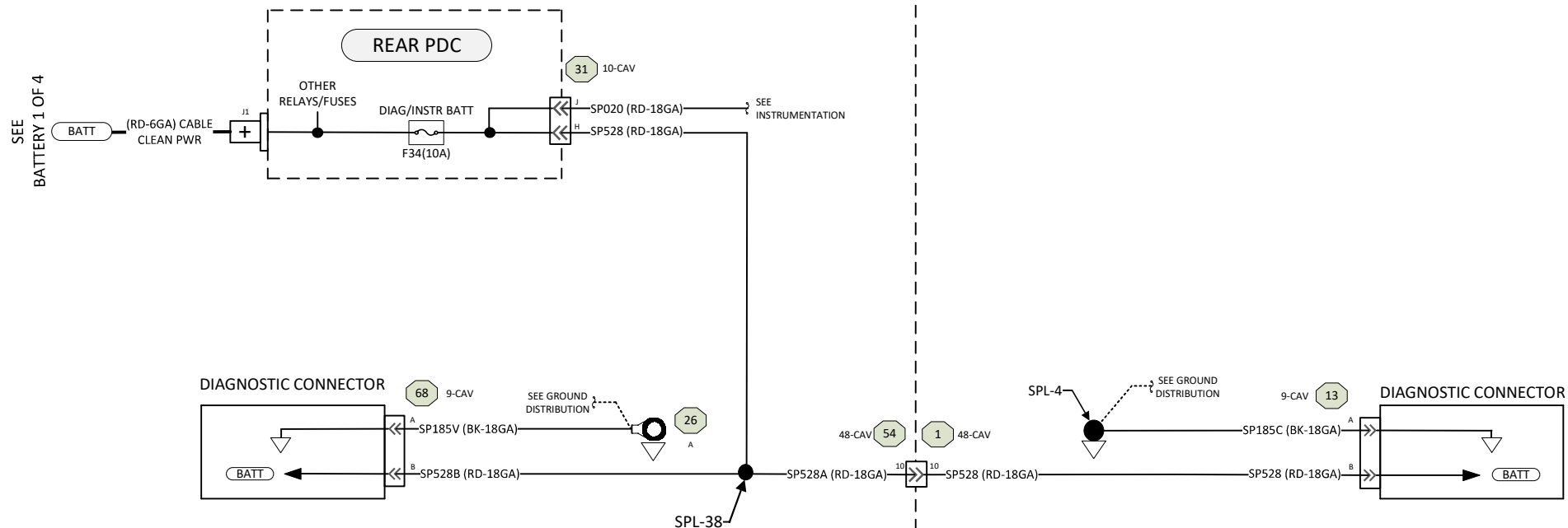
TITLE: ELECTRIC SCHEMATIC 2017

DESCRIPTION: 48 – J1587

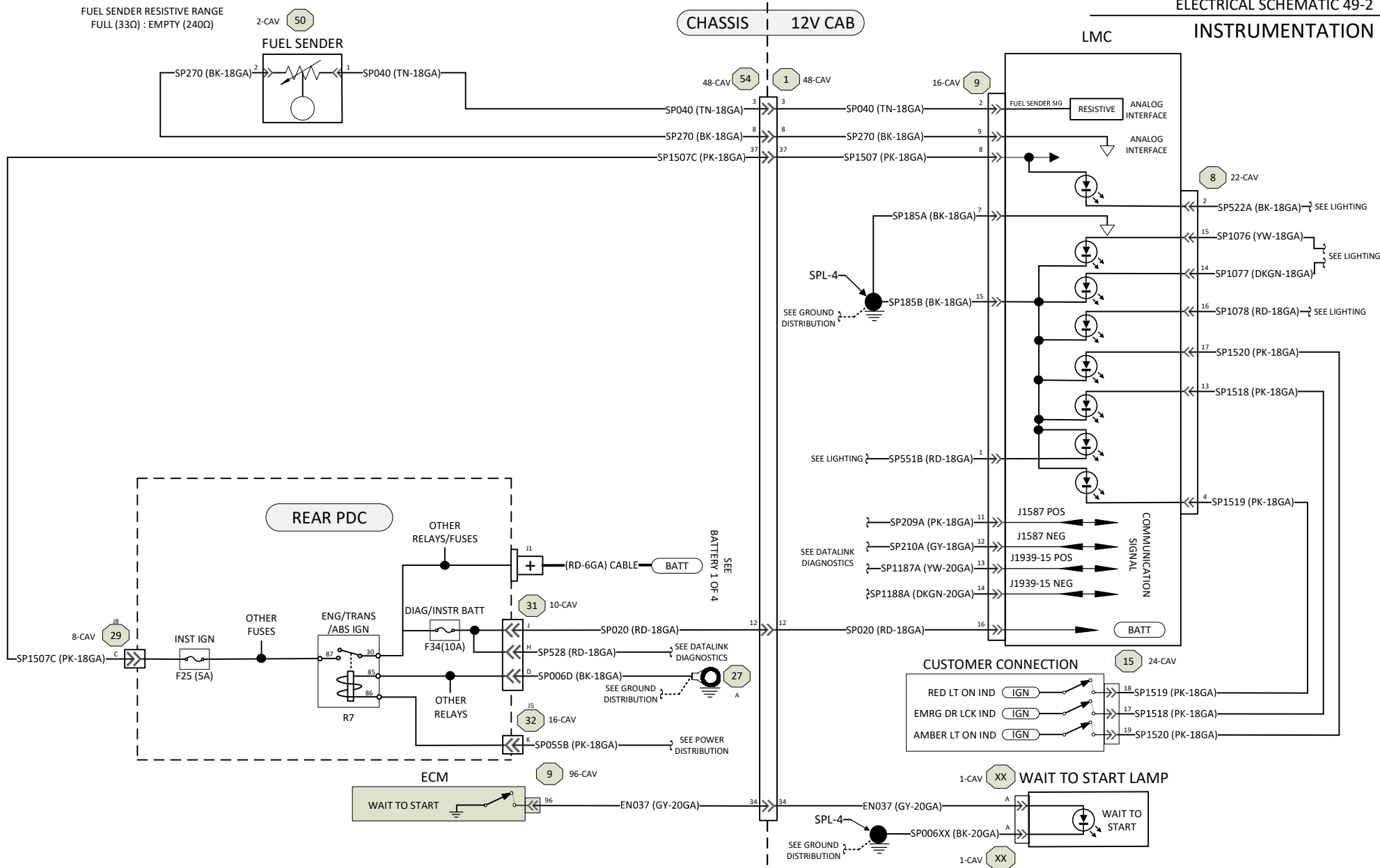
SHEET SIZE	DO NOT SCALE	DO NOT MEASURE	RÉVISION
A5			00

SCALE: N/A

SHEET 31 OF 34



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	BY	DATE	TITLE: ELECTRIC SCHEMATIC 2017 DESCRIPTION: 48 – DATALINK POWER & GROUND	
DRAWN	AC	2017-08-25		
CHECKED				
ENG APPR.				
MFG APPR.			SCALE: N/A SHEET 32 OF 34	
SHEET SIZE	DO NOT SCALE	RÉVISION		
A5	DO NOT MEASURE	00		



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T (450) 432-5466

BY	DATE
AC	2017-08-25
CHECKED	
ENG APPR.	
MFG APPR.	
SHEET SIZE	DO NOT SCALE
A5	DO NOT MEASURE
REVISION	00

TITLE:	ELECTRIC SCHEMATIC 2017
DESCRIPTION:	49 - INSTRUMENTATION
SCALE: N/A	SHEET 33 OF 34

SCHEMATICS POWER DISTRIBUTION

SCHEMATICS ENGINE

SCHEMATICS EXHAUST AFTERTREATMENT

SCHEMATICS INSTRUMENTATION

SCHEMATICS

WINDSHIELD WIPERS & WASHER

CONNECTOR VIEW

CONNECTOR VIEW

3629-GG5

HEATED FUEL FILTER OPTION

HEATED FUEL FILTER OPTION FROM 1 THRU 6

ITEM: 1						
IGNITION POWER						
3/8"						
RING TERMINAL						
OPT: ALL						
MAP: B15						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP640	5.0	TXL	PK	IGN PWR TU FUSES	---

NOTES:



ITEM: 2						
COMMON GROUND						
3/8"						
RING TERMINAL						
OPT: ALL						
MAP: C15						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP006	5.0	TXL	BK	COMMON GND	---

NOTES:



ITEM: 5						
FUEL HEATER						
CN-02FMAX						
DILL BOX						
OPT: ALL						
MAP: D10						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP640	5.0	TXL	PK	IGN PWR TU FUSES	---
B	SP311	5.0	TXL	TN	FUEL HTR POS	---

NOTES: LK-02FMAX



ITEM: 6						
FUEL HEATER						
15300027						
PACKARD						
OPT: ALL						
MAP: B9						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP311	5.0	TXL	TN	FUEL HTR POS	---
B	SP006	5.0	TXL	BK	COMMON GND	---

NOTES: TERNINALS: USE 12176387 FOR 5.0mm². PACKARD EQUIVALENTS ARE ACCEPTABLE.



CONNECTOR VIEW

3871-GG5-002

START/RUN HARNESS

START/RUN HARN 1 THRU 5

ITEM: 1						
CHASSIS HARNESS DEUTSH						
HDP26-18-20SN						
DEUTSH						
OPT: -002						
MAP: A74						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	EN063	0.5	TXL	BK	ECM RETURN SEN	TWT-16
2	EN061	0.5	TXL	OE	SENSOR SUPPLY 5 V	TWT-16
3	SP055	0.8	TXL	PK	IGNITION SW	---
4	EN062	0.5	TXL	BE	ACCRTN POS SEN 2	TWT-16
5	EN1056	1.0	TXL	GY	DPF MANUAL REGEN	---
6	SP053	0.8	TXL	RD	BATTPOS/IGN SW	---
7	SP056	0.8	TXL	PK	START SIGNAL	---
8	EN011A	1.0	TXL	PK	CRUISE CANCEL	---
9	SP054	0.8	TXL	PK	IGN SW/ACC RLY	---
10	EN058	0.5	TXL	YW	ACCRTN POSN SEN 1 SC	TWT-15
11	EN060	0.5	TXL	BK	ACCRTN POSN SEN 1 RE	TWT-15
12	EN059	0.5	TXL	GY	ACCRTN POSN SEN 1	TWT-15
13	SP1247	0.8	TXL	PK	STARTER INTERLOCK	---
14	SP006	0.8	TXL	BK	COMMON GND	---
15	EN014	0.5	TXL	GY	ENG BRK ON/OFF	---
16	EN1083A	0.5	TXL	BK	ECM RET 62	---
17	SP1081K	0.8	TXL	RD	STOP LTS	---
18	EN541	1.0	TXL	GY	SET/DECREASE	---
19	EN544	1.0	TXL	PK	CRUISE ENABLE	---
20	EN545	1.0	TXL	GY	RESUME/INCREASE	---

NOTES: USE SOLID DEUTSH TERMINALS.



ITEM: 2						
CAB INTERFACE						
1-480706-0						
AMP						
OPT: ALL						
MAP: D18						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	EN014	0.8	TXL	GY	ENG BRK ON/OFF	---
2	---	---	---	---	---	---
3	EN544	1.0	TXL	PK	CRUISE ENABLE	---
4	EN541	1.0	TXL	GY	SET/DECREASE	---
5	EN545	1.0	TXL	GY	RESUME/INCREASE	---
6	EN1083B	0.5	TXL	BK	ECM RET 62	---
7	EN011A	1.0	TXL	PK	CRUISE CANCEL	---
8	---	---	---	---	---	---
9	---	---	---	---	---	---

NOTES: USE SOCKET TERMINAL.



ITEM: 3						
CAB INTERFACE						
1-480706-0						
AMP						
OPT: ALL						
MAP: D18						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP053	0.8	TXL	RD	BATTPOS/IGN SW	---
2	SP056A	0.8	TXL	PK	START SIGNAL	---
3	SP054	0.8	TXL	PK	IGN SW/ACC RLY	---
4	PLUG	---	---	---	---	---
5	SP055	0.8	TXL	PK	IGNITION SW	---
6	PLUG	---	---	---	---	---

NOTES: WEDGLOCK W6S-P012



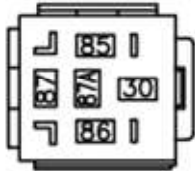
ITEM: 4						
CUMMINS THROTTLE W/ WILLIAMS PEDALS						
12066317						
PACKARD						
OPT: ALL						
MAP: C15						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	EN059	0.5	TXL	GY	ACCRTN POSN SEN 1	TWT-15
B	EN060	0.5	TXL	BK	ACCRTN POSN SEN RE	TWT-15
C	EN058	0.5	TXL	YW	ACCRTN POSN SEN 1 SC	TWT-15
D	EN061	0.5	TXL	OE	SENSOR SUPPLY 5 V	TWT-16
E	EN063	0.5	TXL	BK	ECM RETURN SEN	TWT-16
F	EN062	0.5	TXL	BE	ACCRTN POSN SEN 2	TWT-16

NOTES: PIN OUT USED ONLY WILLIAMS PEDAL OPTION.



ITEM: 5						
STARTER LOCKOUT						
12033871						
PACKARD						
OPT: ALL						
MAP: E13						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
30	SP056	0.8	TXL	PK	START SIGNAL	TWT-15
87	---	---	---	---	---	---
87A	SP056A	0.8	TXL	PK	START SIGNAL	TWT-15
86	SP1247	0.8	TXL	PK	STARTER INTERLOCK	TWT-16
85	SP006	0.8	TXL	BK	COMMON GND	TWT-16

NOTES: ATTACH RELAY SONG CHUAN 896H-1CH-C-R1 U03 OR EQUIVALENT.



ITEM: 6						
REGEN SWITCH						
3387						
GROTE						
OPT: ALL						
MAP: A24						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	EN1083C	1.0	TXL	BK	ECM RETURN 62	---

NOTES:



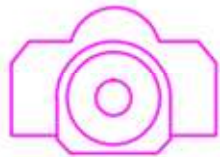
ITEM: 8						
CAB INTERFACE						
770421-1						
AMP						
OPT: -002						
MAP: A17						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP1081K	0.8	TXL	RD	STOP LTS	---

NOTES: USE PIN TERMINAL



ITEM: 7						
REGEN SWITCH						
3387						
GROTE						
OPT: ALL						
MAP: A22						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	EN1056	1.0	TXL	GY	DPF MANUAL REGEN	---

NOTES:



CONNECTOR VIEW

3869-GG5-002

CHASSIS HARNESS

ITEM: 1						
AIR DRYER						
12020599						
PACKARD						
OPT: ALL						
MAP: E42						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP011	0.8	TXL	RD	AIR DRYER PWR	---
B	SP006B	0.8	TXL	BK	COMMON GND	---

NOTES: TPA 12034446.



ITEM: 4						
HORN POWER						
FASTON 4-520447-2						
AMP						
OPT: ALL						
MAP: D88						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP050A	1.0	TXL	PK	HRN RLY TO HRN	---
A	SP050	1.0	TXL	PK	HRN RLY TO HRN	---

NOTES:



ITEM: 2						
FAN INTERFACE						
12052644						
PACKARD						
OPT: ALL						
MAP: A128						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP571B	0.8	TXL	PK	FAN ON/OFF	---
B	SP006F	0.8	TXL	BK	COMMON GND	---

NOTES:

NOTES:



ITEM: 5						
HORN POWER						
FSATON 4-520447-2						
AMP						
OPT: ALL						
MAP: D88						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP006M	1.0	TXL	PK	HRN RLY TO HRN	---



ITEM: 3						
HORN POWER						
FASTON 3-350819-2						
AMP						
OPT: ALL						
MAP: D85						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP050A	1.0	TXL	PK	HRN RLY TO HRN	---

NOTES:



ITEM: 6						
HORN GROUND						
FASTON 4-520447-2						
AMP						
OPT: ALL						
MAP: D88						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP006P	1.0	TXL	PK	HRN RLY TO HRN	---

NOTES:



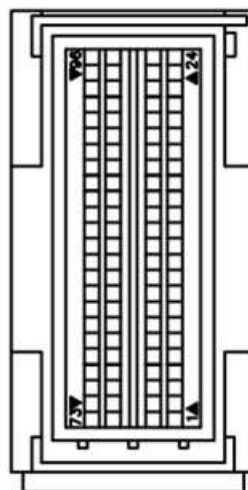
ITEM: 8						
LOW COOLANT PROBE						
12110293						
PACKARD						
OPT: ALL						
MAP: A96						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	EN992	0.5	TXL	PK	COOL SENS SUPPLY	TWT-17
B	EN993	0.5	TXL	TN	COOL SENS SIGNAL	TWT-17
C	EN994	0.5	TXL	BK	COOL SENS RETURN	TWT-17

NOTES: TPA 12052845; THESE WIRES TWISTED TO SPLICES 19 & 20. TWISTING IS NOT NEEDED AFTER THESE SPLICES.



ITEM: 9																				
2016 EMISSIONS ENGINE CONTROL MODULE																				
13953460																				
DELPHI																				
OPT: ALL																				
MAP: A116																				
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE	CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE	CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	EN240C	0.1	TXL	RD	BATT POS	---	33	EN060	0.5	TXL	BK	ACCRTN POSN SEN 1 RE	TWT-15	65	EN1060	0.5	TXL	WE	AMBIENT AIR TEMP SEN	TMP-46
2	PLUG	---	---	---	---	---	34	PLUG	---	---	---	---	---	66	PLUG	---	---	---	---	---
3	EN1016	0.5	TXL	BK	HH RLY CNTRL NEG	---	35	EN993	0.5	TXL	TN	COOL SENS SIGNAL	TWT-17	67	PLUG	---	---	---	---	---
4	PLUG	---	---	---	---	---	36	PLUG	---	---	---	---	---	68	PLUG	---	---	---	---	---
5	EN439	0.5	TXL	PK	CLEAN IGN	---	37	PLUG	---	---	---	---	---	69	PLUG	---	---	---	---	---
6	EN1033	0.5	TXL	PE	PMP MOTOR PWM	---	38	EN1094	0.5	TXL	GN	HH1 SPLY DIAG	---	70	PLUG	---	---	---	---	---
7	EN1090	0.5	TXL	YW	DEF SPLY MOD HTR RLY	---	39	EN1095	0.5	TXL	YW	HH2 SPLY DIAG	---	71	PLUG	---	---	---	---	---
8	EN1011	0.5	TXL	OE	SENSOR SUPPLY SV	---	40	EN1096	0.5	TXL	OE	HH3 SPLY DIAG	---	72	PLUG	---	---	---	---	---
9	EN058	0.5	TXL	YW	ACCRTN POSN SEN 1 SC	TWT-15	41	EN1046	0.5	TXL	TN	DPF DELTA PRESSURE	TWQ-1	73	SP655E	1.0	TXL	BK	CLEAN GND	---
10	EN059	0.5	TXL	GY	ACCRTN POSN SEN 1	TWT-15	42	EN1047	0.5	TXL	PE	DPF OUTLET PRESSURE	TWQ-1	74	PLUG	---	---	---	---	---
11	PLUG	---	---	---	---	---	43	PLUG	---	---	---	---	---	75	EN1000	0.5	TXL	PK	INTAKE AIR HTR	TWP-36
12	PLUG	---	---	---	---	---	44	PLUG	---	---	---	---	---	76	EN1005	0.5	TXL	BK	ECM RET GEN F	TWP-38
13	EN035	0.5	TXL	GY	WIF SENSOR	---	45	SP1188K	0.5	J15	DKGN	J1939-15 NEG	J1939-15	77	EN1023	0.8	TXL	YW	METERING VLV HIGH	TWP-42
14	EN1027	0.5	TXL	PE	TNK LVL SENS SIG	---	46	SP1188K	0.5	J15	DKGN	J1939-15 NEG	J1939-15	78	EN998	0.5	TXL	PK	FAN CONTROL OUTPUT	TWP-35
15	EN1029	0.5	TXL	TN	TNK TMP SENS SIG	---	47	PLUG	---	---	---	---	---	79	EN1031	0.5	TXL	GN	PMP MOTOR SUPPLY	---
16	EN1038	0.5	TXL	TN	PSI SENS SIG	---	48	PLUG	---	---	---	---	---	80	PLUG	---	---	---	---	---
17	PLUG	---	---	---	---	---	49	SP655A	1.0	TXL	BK	CLEAN GND	---	81	EN1034	0.5	TXL	GN	REVERTING VLV SIG	---
18	PLUG	---	---	---	---	---	50	SP655B	1.0	TXL	BK	CLEAN GND	---	82	EN1025	0.5	TXL	OE	TANK HTR HIGH	---
19	PLUG	---	---	---	---	---	51	SP655C	1.0	TXL	BK	CLEAN GND	---	83	EN1004	0.5	TXL	PK	STARTER LOCKOUT	TWP-38
20	PLUG	---	---	---	---	---	52	SP655D	1.0	TXL	BK	CLEAN GND	---	84	EN1097	0.5	TXL	BK	HH RETURN	---
21	SP1187K	0.5	J15	YW	J1939-15 POS	J1939-15	53	EN1024	0.8	TXL	BK	METERING VLV LOW	TWP-42	85	EN1098	0.5	TXL	BK	HH RETURN DIAG	---
22	SP1187K	0.5	J15	YW	J1939-15 POS	J1939-15	54	EN1087	0.5	TXL	BK	DEF SUPPLY MOD RET	---	86	PLUG	---	---	---	---	---
23	PLUG	---	---	---	---	---	55	PLUG	---	---	---	---	---	87	PLUG	---	---	---	---	---
24	PLUG	---	---	---	---	---	56	PLUG	---	---	---	---	---	88	PLUG	---	---	---	---	---
25	EN240D	1.0	TXL	RD	BATT POS	---	57	EN1084	0.5	TXL	BK	ECM RET 57	---	89	PLUG	---	---	---	---	---
26	EN240E	1.0	TXL	RD	BATT POS	---	58	PLUG	---	---	---	---	---	90	PLUG	---	---	---	---	---
27	EN240F	1.0	TXL	RD	BATT POS	---	59	PLUG	---	---	---	---	---	91	PLUG	---	---	---	---	---
28	EN240G	1.0	TXL	RD	BATT POS	---	60	PLUG	---	---	---	---	---	92	PLUG	---	---	---	---	---
29	PLUG	---	---	---	---	---	61	EN063	0.5	TXL	BK	ECM RETURN SEN	TWT-16	93	PLUG	---	---	---	---	---
30	PLUG	---	---	---	---	---	62	EN1083	0.5	TXL	BK	ECM RET 62	---	94	PLUG	---	---	---	---	---
31	PLUG	---	---	---	---	---	63	PLUG	---	---	---	---	---	95	PLUG	---	---	---	---	---
32	FN1085	0.5	TXL	BK	ECM RETURN 32	---	64	FN062	0.5	TXL	BE	ACCRTN POSN SEN 2	TWT-16	96	FN037	0.5	TXL	GY	WT TO ST LT	---

NOTES: TERMINAL 13627884 FOR 20 AWG, TERMINAL 13627887 FOR 18 & 16 AWG, BACKSHELL 15494614, STRAIN RELIEF 13856709, TPA 15494608.



CHASSIS HARN 10 THRU 19

ITEM: 10						
ECM GROUND						
3/8"						
RING TERMINAL						
OPT: ALL						
MAP: E113						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP655A	1.0	TXL	BK	CLEAN GND	---
A	SP655B	1.0	TXL	BK	CLEAN GND	---
A	SP655C	1.0	TXL	BK	CLEAN GND	---
A	SP655D	1.0	TXL	BK	CLEAN GND	---
A	SP655E	1.0	TXL	BK	CLEAN GND	---

NOTES:



ITEM: 11						
WIF SENSOR						
DT06-2S-C015						
DEUTSCH						
OPT: ALL						
MAP: E130						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	EN1053	0.5	TXL	BK	ECU RETURN SENSOR	---
2	EN035	0.5	TXL	GY	WIF SENSOR	---

NOTES:



ITEM: 12						
GRID HTR GND						
# 10						
RING TERMINAL						
OPT: ALL						
MAP: E118						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	EN1001	0.5	TXL	BK	ECM RET GEN F	TWP-36

NOTES:



ITEM: 13						
GRID HTR PWR						
# 10						
RING TERMINAL						
OPT: ALL						
MAP: E120						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	EN1000	0.5	TXL	PK	INTAKE AIR HTR	TWP-36

NOTES:



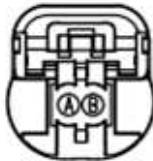
ITEM: 15						
STARTER SOLENOID TRIGGER						
# 10						
RING TERMINAL						
OPT: ALL						
MAP: E92						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP073	1.0	TXL	RD	STARTER SOL	---

NOTES:



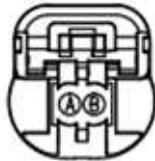
ITEM: 16						
ENGINE SPEED SENSOR						
13520101						
DELPHI						
OPT: ALL						
MAP: A63						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	AT159	0.8	TXL	TN	ENGINE SPEED HIGH	TWP-27
B	AT139	0.8	TXL	OE	ENGINE SPEED LOW	TWP-27

NOTES: CPA: 15496486, CONVOLUTE CAPTURE: 15358890,
TERMINAL: 15326267, SEAL: 15305351

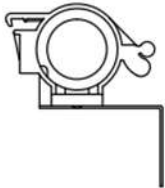


ITEM: 17						
TURBINE SPEED SENSOR						
13520101						
DELPHI						
OPT: ALL						
MAP: A62						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	AT180	0.8	TXL	OE	TURBINE SPEED HIGH	TWP-26
B	AT120	0.8	TXL	BE	TURBINE SPEED LOW	TWP-26

NOTES: CPA: 15496486, CONVOLUTE CAPTURE: 15358890,
TERMINAL: 15326267, SEAL: 15305351

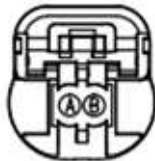


ITEM: 18	
HARNESS SUPPORT	
15495756	
PACKARD	



ITEM: 19						
OUTPUT SPEED SENSOR						
13520101						
DELPHI						
OPT: ALL						
MAP: A60						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	AT160	0.8	TXL	YW	OUTPUT SPEED HIGH	TWP-28
B	AT140	0.8	TXL	GN	OUTPUT SPEED LOW	TWP-28

NOTES: CPA: 15496486, CONVOLUTE CAPTURE: 15358890,
TERMINAL: 15326267, SEAL: 15305351



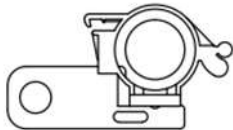
CHASSIS HARN 20 THRU 25

ITEM: 20						
TRANSMISSION INTERFACE						
R-62001-001						
AFL						
OPT: ALL						
MAP: A57						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	AT152	0.8	TXL	GN	SS-1	---
2	AT133	0.8	TXL	YW	SS-2	---
3	AT151	0.8	TXL	YW	SS-3	---
4	AT117	0.8	TXL	BE	PS-1	---
5	PLUG	---	---	---	---	---
6	AT157	0.8	TXL	WE	PS-3	---
7	AT179	0.8	TXL	PK	PS-2	---
8	AT154	0.8	TXL	TN	SUMP TEMP SENSOR	---
9	AT158	0.8	TXL	GN	ANALOG GROUND	---
10	AT178	0.8	TXL	WE	TORQUE CONVERTER CLU	---
11	AT177	0.8	TXL	GN	PS-4	---
12	PLUG	---	---	---	---	---
13	PLUG	---	---	---	---	---
14	AT111	0.8	TXL	OE	HSD 1	---
15	AT155	0.8	TXL	WE	PCS 1	---
16	AT171	0.8	TXL	YW	HSD 2	---
17	AT136	0.8	TXL	OE	PCS 2	---
18	AT 138	0.8	TXL	OE	INTL MODE SW NS-CE	---
19	AT174	0.8	TXL	BE	MAIN MOD	---
20	AT114	0.8	TXL	GY	INTERNAL MODE SW C	---
21	AT153	0.8	TXL	YW	INTERNAL MODE SW B	---
22	AT173	0.8	TXL	BE	INTERNAL MODE SW A	---
23	AT134	0.8	TXL	WE	INTERNAL MODE SW P	---
24	PLUG	---	---	---	---	---

NOTES: GROMMET COVER: E-4582, WIRE DRESS: E-4586, CONVOLUTE CAPTURE: E-4570, PLUG/CAVITY SEAL: 12034413 (DELPHI), TERMINAL (RIGHT REEL PAYOFF): 33001-2004 (MOLEX), TERMINAL (LEFT REEL PAYOFF): 33001-3004 (MOLEX).

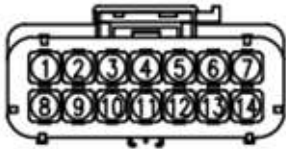


ITEM: 21	
HARNESS SUPPORT	
15495760	
PACKARD	



ITEM: 21						
14-PIN OEM CROSSOVER CONNECTOR						
54201411 (1)						
FCI						
OPT: ALL						
MAP: A132						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	PLUG	---	---	---	---	---
2	SP1382A	0.5	J15	YW	J1939-15 POS	J1939-15
3	PLUG	---	---	---	---	---
4	PLUG	---	---	---	---	---
5	PLUG	---	---	---	---	---
6	EN1088B	1.0	TXL	PK	AFTRTMENT IGN	---
7	PLUG	---	---	---	---	---
8	PLUG	---	---	---	---	---
9	SP1383A	0.5	J15	DKGN	J1939-15 NEG	J1939-15
10	PLUG	---	---	---	---	---
11	EN1002	0.8	GXL	PK	AUX BRAKE LAMP	TWP-37
12	PLUG	---	---	---	---	---
13	EN1089A	1.0	TXL	BK	AFTRTMENT GND	---
14	PLUG	---	---	---	---	---

NOTES: TERM: 54001803; PLUG: 54200005.



ITEM: 22						
FLOW SWITCH						
12162198						
PACKARD						
OPT: -002						
MAP: A89						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP363	0.8	TXL	GY	H'MAX FLOW SW	---
B	---	---	---	---	---	---

NOTES:



ITEM: 23						
BACKUP PUMP PWR						
#10						
RING TERMINAL						
OPT: -002						
MAP: A88						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP991	5.0	TXL	RD	PUMP POWER	---

NOTES:



ITEM: 24						
CHASSIS HARNESS DEUTSCH						
HDP24-18-20PN						
DEUTSCH						
OPT: -002						
MAP: A74						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	EN063	0.5	TXL	BK	ECM RETURN SEN	TWT-16
2	EN061	0.5	TXL	OE	SENSOR SUPPLY SV	TWT-16
3	SP055	0.8	TXL	PK	IGNITION SW	---
4	EN062	0.5	TXL	BE	ACCRTN POSN SEN 2	TWT-16
5	EN1056	1.0	TXL	GY	DPF MANUAL REGEN	---
6	SP053	0.8	TXL	RD	BATTPOS/IGN SW	---
7	SP056	0.8	TXL	PK	START SIGNAL	---
8	EN011	1.0	TXL	PK	CRUISE CANCEL	---
9	SP054	0.8	TXL	PK	IGN SW/ACC RLY	---
10	EN058	0.5	TXL	YW	ACCRTN POSN SEN 1 SC	TWT-15
11	EN060	0.5	TXL	BK	ACCRTN POSN SEN 1 RE	TWT-15
12	EN059	0.5	TXL	GY	ACCRTN POSN SEN 1	TWT-15
13	SP1247	0.8	TXL	PK	STARTER INTERLOCK	---
14	SP006Y	0.8	TXL	BK	COMMON GND	---
15	EN014	0.5	TXL	GY	ENG BRK ON/OFF	---
16	EN1083A	0.5	TXL	BK	ECM RET 62	---
17	SP1081K	0.8	TXL	RD	STOP LTS	---
18	EN541	1.0	TXL	GY	SET/DECREASE	---
19	EN544	1.0	TXL	PK	CRUISE ENABLE	---
20	EN545	1.0	TXL	GY	RESUME/INCREASE	---

NOTES: USE SOLID DEUTSCH TERMINALS.



ITEM: 25						
BATTERY -						
3/8"						
RING TERMINAL						
OPT: ALL						
MAP: C47						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	EN1040	1.0	TXL	BK	ELEC HTR RETURN	---
A	EN1089A	1.0	TXL	BK	AFTRTMENT GND	---
A	EN1089C	0.8	TXL	BK	AFTRTMENT GND	---
A	EN1089D	0.8	TXL	BK	AFTRTMENT GND	---
A	EN1089E	0.8	GXL	BK	AFTRTMENT GND	---

NOTES:



CHASSIS HARN 26 THRU 31

ITEM: 26						
BATTERY -						
3/8"						
RING TERMINAL						
OPT: -002						
MAP: A48						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP185M	0.8	TXL	BK	CLEAN GND	---
A	SP185N	3.0	TXL	BK	CLEAN GND	---
A	SP185T	3.0	TXL	BK	CLEAN GND	---
A	SP185U	3.0	TXL	BK	CLEAN GND	---
A	AT109A	2.0	TXL	GY	TCM CLEAN GND	---
A	AT169A	2.0	TXL	GY	TCM CLEAN GND	---
A	SP185V	0.8	TXL	BK	CLEAN GND	---

NOTES:



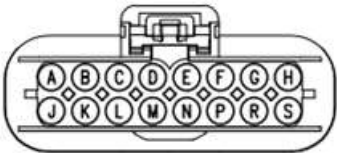
ITEM: 27						
COMMON GROUND						
3/8"						
RING TERMINAL						
OPT: -002						
MAP: A41						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP006A	5.0	TXL	BK	COMMON GROUND	---
A	SP006D	0.8	TXL	BK	COMMON GROUND	---
A	SP006E	0.8	TXL	BK	COMMON GROUND	---
A	SP006M	1.0	TXL	BK	COMMON GROUND	---
A	SP006T	0.8	TXL	BK	COMMON GROUND	---
A	SP006W	5.0	TXL	BK	COMMON GROUND	---
A	SP006Y	0.8	TXL	BK	COMMON GROUND	---
A	SP006AA	2.0	TXL	BK	COMMON GROUND	---
A	SP006AC	5.0	TXL	BK	COMMON GROUND	---
A	SP006AD	0.5	TXL	BK	COMMON GROUND	---
A	SP006AE	0.8	TXL	BK	COMMON GROUND	---
A	SP006AF	0.8	TXL	BK	COMMON GROUND	---
A	SP006B	0.8	TXL	BK	COMMON GROUND	---
A	SP006BA	0.5	TXL	BK	COMMON GROUND	---

NOTES:



ITEM: 28						
J9						
15326666						
DELPHI						
OPT: -002						
MAP: A102						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	AT110A	2.0	TXL	PK	TCM CLEAN PWR	---
B	SP041	2.0	TXL	RD	HZD/TRNSIG PWR	---
C	SP058	2.0	TXL	RD	HDLP PWR	---
D	PLUG	---	---	---	---	---
E	PLUG	---	---	---	---	---
F	PLUG	---	---	---	---	---
G	SP049A	1.0	TXL	RD	HORN POWER	---
H	SP533	3.0	TXL	RD	PWR VENT	---
J	AT170A	2.0	TXL	PK	TCM CLEAN PWR	---
K	SP004	0.8	TXL	RD	IGN TO ABS ECU	---
L	SP002D	3.0	TXL	RD	ABS BATT PWR	---
M	PLUG	---	---	---	---	---
N	PLUG	---	---	---	---	---
P	SP049B	1.0	TXL	RD	HORN POWER	---
R	EN1088A	1.0	GXL	PK	AFTRTMENT IGN	---
S	SP533A	3.0	TXL	RD	PWR VENT	---

NOTES:



ITEM: 29						
J8						
13538370						
DELPHI						
OPT: -002						
MAP: A104						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP008	1.0	TXL	RD	MRKR LT PWR FT	---
B	PLUG	---	---	---	---	---
C	SP1507C	0.8	TXL	PK	INSTRUMENT IGN	---
D	PLUG	---	---	---	---	---
E	PLUG	---	---	---	---	---
F	SP073	1.0	TXL	RD	STARTER SOL	---
G	SP015	1.0	TXL	PK	B/UP LT ACTIVE	---
H	PLUG	---	---	---	---	---

NOTES: TPA 15430896; SUITABLE REPLACEMENT CONNECTOR 15326654



ITEM: 30						
J7						
13530777						
DELPHI						
OPT: ALL						
MAP: D102						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	AT165	0.8	TXL	TN	REVERSE WARNING	---
B	AT141	0.8	TXL	TN	NEUTRAL START	---
C	SP056	0.8	TXL	PK	START SIGNAL	---
D	PLUG	---	---	---	---	---
E	PLUG	---	---	---	---	---
F	EN1005	0.5	TXL	BK	ECM RET GEN F	TWP-38
G	EN1004	0.5	TXL	PK	STARTER LOCKOUT	TWP-38
H	PLUG	---	---	---	---	---
J	PLUG	---	---	---	---	---
K	SP163	0.8	TXL	YW	IGNITION SIG	---
L	EN439	0.5	TXL	PK	CLEAN IGN	---
M	SP515	0.8	TXL	GN	ABS BLNK IN	---

NOTES: TPA 15430903; SUITABLE REPLACEMENT CONNECTOR 15326849.



ITEM: 31						
J6						
13545282						
DELPHI						
OPT: ALL						
MAP: D99						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	PLUG	---	---	---	---	---
B	PLUG	---	---	---	---	---
C	PLUG	---	---	---	---	---
D	SP006D	0.8	TXL	BK	COMMON GND	---
E	PLUG	---	---	---	---	---
F	EN1090	0.5	TXL	YW	DEF SPLY MOD HTR RLY	---
G	SP050	1.0	TXL	PK	HRN RLY TO HRN	---
H	SP528	0.8	TXL	RD	DATALINK PWR	---
J	SP020	0.8	TXL	RD	INSTRUMENT PWR	---
K	PLUG	---	---	---	---	---

NOTES: TPA 1548288; SUITABLE REPLACEMENT CONNECTOR 15326842.



CHASSIS HARN 32 THRU 34

ITEM: 32						
J5						
15479300						
DELPHI						
OPT: ALL						
MAP: B99						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	PLUG	---	---	---	---	---
B	EN1021A	1.0	TXL	OE	HH3 SUPPLY	---
C	SP011	0.8	TXL	RD	AIR DRYER PWR	---
D	EN1019A	1.0	TXL	YW	HH2 SUPPLY	---
E	PLUG	---	---	---	---	---
F	EN998	0.5	TXL	PK	FAN CONTROL OUTPUT	TWP-35
G	EN1017A	1.0	TXL	GN	HH1 SUPPLY	---
H	SP049A	1.0	TXL	RD	HORN POWER	---
J	SP051	0.8	TXL	GY	HORN BUTTON	---
K	SP055B	0.8	TXL	PK	IGNITION SW	---
L	PLUG	---	---	---	---	---
M	PLUG	---	---	---	---	---
N	PLUG	---	---	---	---	---
P	EN999	0.5	TXL	BK	ECM RET GEN F	TWP-35
R	EN1016	0.5	TXL	BK	HH RLY CNTRL NEG	---
S	SP049B	1.0	TXL	RD	HORN POWER	---

NOTES: TPA 15358785; SUITABLE REPLACEMENT CONNECTOR 15326863



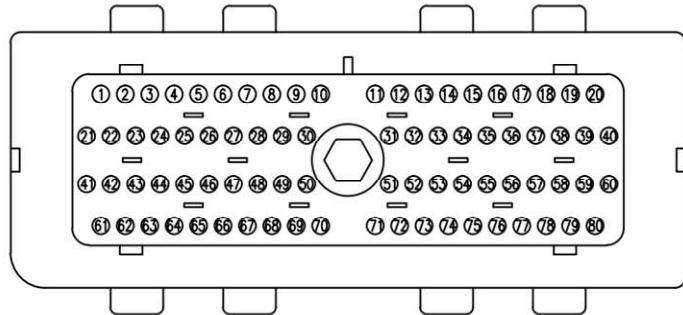
ITEM: 33						
J4						
13540547 (1)						
DELPHI						
OPT: -002						
MAP: A97						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	EN240A	3.0	TXL	RD	BATT POS	---
B	SP002B	3.0	TXL	RD	ABS BATT PWR	---
C	SP1505A	1.0	TXL	RD	STP PRS SW1	---
D	SP098	1.0	TXL	RD	WASHER	---
E	SP571A	0.8	TXL	PK	FAN ON/OFF	---
F	EN1039	1.0	TXL	WE	ELEC HTR SUPPLY	---
G	PLUG	---	---	---	---	---
H	EN240B	3.0	TXL	RD	BATT POS	---
J	SP094	2.0	TXL	RD	WIPER POWER	---
K	SP002K	3.0	TXL	RD	ABS BATT PWR	---
L	SP1506	1.0	TXL	RD	STP PRS SW2	---
M	PLUG	---	---	---	---	---
N	PLUG	---	---	---	---	---
P	SP053	0.5	TXL	RD	BATTPOS/IGN SW	---

NOTES: SUITABLE REPLACEMENT CONNECTOR 15326917.



ITEM: 34																					
TCM INTERFACE																					
R-61991-001																					
AFL																					
OPT: ALL																					
MAP: C69																					
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE	CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE	CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE	
1	PLUG	---	---	---	---	---	28	AT128	0.5	J15	YW	J1939 CAN POS	J1939 CAB	55	AT155	0.8	TXL	WE	PCS 1	---	
2	PLUG	---	---	---	---	---	29	PLUG	---	---	---	---	---	56	PLUG	---	---	---	---	---	
3	PLUG	---	---	---	---	---	30	PLUG	---	---	---	---	---	57	AT157	0.8	TXL	WE	PS-3	---	
4	PLUG	---	---	---	---	---	31	PLUG	---	---	---	---	---	58	AT158	0.8	TXL	GN	ANALOG GROUND	---	
5	PLUG	---	---	---	---	---	32	PLUG	---	---	---	---	---	59	AT159	0.8	TXL	TN	ENGINE SPEED HIGH	TWP-27	
6	PLUG	---	---	---	---	---	33	AT133	0.8	TXL	YW	SS-2	---	60	AT160	0.8	TXL	YW	OUTPUT SPEED HIGH	TWP-28	
7	PLUG	---	---	---	---	---	34	AT134	0.8	TXL	WE	INTERNAL MODE SW P	---	61	PLUG	---	---	---	---	---	
8	AT108	0.5	J15	DKGN	J1939 CAN NEG	J1939 CAB	35	PLUG	---	---	---	---	---	62	PLUG	---	---	---	---	---	
9	AT109B	0.8	TXL	GY	TCM CLEAN GND	---	36	AT136	0.8	TXL	OE	PCS 2	---	63	AT163	0.8	TXL	YW	IGNITION SIG	---	
10	AT110B	0.8	TXL	PK	TCM CLEAN PWR	---	37	PLUG	---	---	---	---	---	64	PLUG	---	---	---	---	---	
11	AT111	0.8	TXL	OE	HSD 1	---	38	AT138	0.8	TXL	OE	INTL MODE SW NS-CE	---	65	AT165	0.8	TXL	TN	REVERSE WARNING	---	
12	PLUG	---	---	---	---	---	39	AT139	0.8	TXL	OE	ENGINE SPEED LOW	TWP-27	66	PLUG	---	---	---	---	---	
13	PLUG	---	---	---	---	---	40	AT140	0.8	TXL	GN	OUTPUT SPEED LOW	TWP-28	67	PLUG	---	---	---	---	---	
14	AT114	0.8	TXL	GY	INTERNAL MODE SW C	---	41	AT141	0.8	TXL	TN	NEUTRAL START	---	68	PLUG	---	---	---	---	---	
15	PLUG	---	---	---	---	---	42	PLUG	---	---	---	---	---	69	AT169B	0.8	TXL	GY	TCM CLEAN GND	---	
16	PLUG	---	---	---	---	---	43	PLUG	---	---	---	---	---	70	AT170B	0.8	TXL	PK	TCM CLEAN PWR	---	
17	AT117	0.8	TXL	BE	PS-1	---	44	PLUG	---	---	---	---	---	71	AT171	0.8	TXL	YW	HSD 2	---	
18	PLUG	---	---	---	---	---	45	PLUG	---	---	---	---	---	72	PLUG	---	---	---	---	---	
19	PLUG	---	---	---	---	---	46	PLUG	---	---	---	---	---	73	AT173	0.8	TXL	BE	INTERNAL MODE SW A	---	
20	AT120	0.8	TXL	BE	TURBINE SPEED LOW	TWP-26	47	PLUG	---	---	---	---	---	74	AT174	0.8	TXL	BE	MAIN MOD	---	
21	PLUG	---	---	---	---	---	48	PLUG	---	---	---	---	---	75	PLUG	---	---	---	---	---	
22	PLUG	---	---	---	---	---	49	PLUG	---	---	---	---	---	76	PLUG	---	---	---	---	---	
23	PLUG	---	---	---	---	---	50	PLUG	---	---	---	---	---	77	AT177	0.8	TXL	GN	PS-4	---	
24	PLUG	---	---	---	---	---	51	AT151	0.8	TXL	YW	SS-3	---	78	AT178	0.8	TXL	WE	TORQUE CONVERTER CLU	---	
25	PLUG	---	---	---	---	---	52	AT152	0.8	TXL	GN	SS-1	---	79	AT179	0.8	TXL	PK	PS-2	---	
26	PLUG	---	---	---	---	---	53	AT153	0.8	TXL	YW	INTERNAL MODE SW B	---	80	AT180	0.8	TXL	OE	TURBINE SPEED HIGH	TWP-26	
27	PLUG	---	---	---	---	---	54	AT154	0.8	TXL	TN	SUMP TEMP SENSOR	---	---	---	---	---	---	---	---	

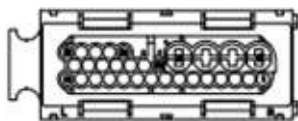
NOTES: GROMMET COVER: E-4542, WIRE DRESS COVER: E-6206-002, WIRE COVER BOTTOM: E-4555, TERMINAL (RIGHT REEL PAYOFF): 33001-2004 (MOLEX), TERMINAL (LEFT REEL PAYOFF): 33001-2004, CAVITY PLUG: 12034413 (DELPHI).



CHASSIS HARN 35 THRU 42

ITEM: 35						
HYDRAULIC ABS						
1-953042-6						
AMP						
OPT: -002						
MAP: A50						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP004	0.8	TXL	RD	IGN TO ABS ECU	---
2	PLUG	---	---	---	---	---
3	PLUG	---	---	---	---	---
4	PLUG	---	---	---	---	---
5	PLUG	---	---	---	---	---
6	SP185M	0.8	TXL	BK	CLEAN GROUND	---
7	PLUG	---	---	---	---	---
8	PLUG	---	---	---	---	---
9	PLUG	---	---	---	---	---
10	PLUG	---	---	---	---	---
11	PLUG	---	---	---	---	---
12	PLUG	---	---	---	---	---
13	PLUG	---	---	---	---	---
14	SP1187G	0.5	J15	YW	J1939-15 POS	J1939-15
15	SP1188G	0.5	J15	DKGN	J1939-15 NEG	J1939-15
16	SP002H	3.0	TXL	RD	ABS BATT PWR	---
17	SP002D	3.0	TXL	RD	ABS BATT PWR	---
18	SP185U	3.0	TXL	BK	CLEAN GND	---
19	SP185T	3.0	TXL	BK	CLEAN GND	---
20	PLUG	---	---	---	---	---
21	SP515	0.8	TXL	GN	ABS BLINK IN	---
22	SP254	1.0	TXL	BN	ABS 2 SENS R1	TWP-10
23	SP252	1.0	TXL	BN	ABS 2 SENS L1	TWP-09
24	SP241	1.0	TXL	BN	ABS 1 SENS L1	TWP-07
25	SP242	1.0	TXL	BN	ABS 1 SENS R1	TWP-08
26	SP210A	0.8	TXL	GY	J1587 NEG	TWP-06
27	SP255	1.0	TXL	BK	ABS 2 SENS R2	TWP-10
28	SP253	1.0	TXL	BK	ABS 2 SENS L2	TWP-09
29	SP240	1.0	TXL	BK	ABS 1 SENS L2	TWP-07
30	SP243	1.0	TXL	BK	ABS 1 SENS R2	TWP-08
31	SP209A	0.8	TXL	PK	J1587 POS	TWP-06

NOTES: ADD COVER 953039-1, SECONDARY LATCHES 953047-1 AND 953048-1. ALSO, PLUG ALL UNUSED CAVITIES.



ITEM: 36						
UREA TANK LEVEL & TEMP SENSORS						
DT06-4S						
DEUTSCH						
OPT: ALL						
MAP: A39						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP1383E	0.5	J15	DKGN	J1939-15 NEG	J1939-15
2	SP1382E	0.5	J15	YW	J1939-15 POS	J1939-15
3	EN1089E	0.8	TXL	BK	AFTTRTMENT GND	---
4	EN1088E	0.8	TXL	PK	AFTTRTMENT IGN	---

NOTES:



ITEM: 37						
DEF LINE HEATER – PRESSURE LINE						
12010973						
DELPHI						
OPT: ALL						
MAP: A37						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	EN1017B	1.0	TXL	GN	HH1 SUPPLY	---
B	EN1018	1.0	TXL	BK	HH1 RETURN	---

NOTES:



ITEM: 38						
DEF LINE HEATER – THROTTLE LINE						
12010973						
DELPHI						
OPT: ALL						
MAP: A36						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	EN1019B	1.0	TXL	YW	HH2 SUPPLY	---
B	EN1020	1.0	TXL	BK	HH2 RETURN	---

NOTES:



ITEM: 39						
DEF LINE HEATER – SUCTION LINE						
12010973						
DELPHI						
OPT: ALL						
MAP: A34						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	EN1021B	1.0	TXL	OE	HH3 SUPPLY	---
B	EN1022	1.0	TXL	BK	HH3 RETURN	---

NOTES:



ITEM: 40						
SUPPLY MODULE						
1-1703639-1						
AMP						
OPT: ALL						
MAP: A30						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	PLUG	---	---	---	---	---
2	EN1037	0.5	TXL	PK	PSI SENS SUPPLY SV	---
3	EN1038	0.5	TXL	TN	PSI SENS SIG	---
4	EN1036	0.5	TXL	BK	PSI SENS RETURN	---
5	EN1039	1.0	TXL	WE	ELEC HTR SUPPLY	---
6	EN1040	1.0	TXL	BK	ELEC HTR RETURN	---
7	PLUG	---	---	---	---	---
8	EN1032	0.5	TXL	BK	PMP MOTOR RETURN	---
9	EN1031	0.5	TXL	GN	PMP MOTOR SUPPLY	---
10	EN1033	0.5	TXL	PE	PMP MOTOR PWM	---
11	EN1034	0.5	TXL	GN	REVERTING VLV SIG	---
12	EN1035	0.5	TXL	BK	REVERTING VLV RTN	---

NOTES: TERMINAL 1241381-3; SEAL 964972-1; PLUG 963531-1.



ITEM: 42						
TANK HEATING VALVE						
1-967325-1						
AMP						
OPT: ALL						
MAP: D32						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	EN1026	0.5	TXL	BK	TANK HTR LOW	---
2	---	---	---	---	---	---
3	---	---	---	---	---	---
4	EN1025	0.5	TXL	OE	TANK HTR HIGH	---

NOTES: TERM: 962981-1, SEAL: 828920-1, STRAIGHT COVER WIRE LOOM 10MM 965786-1.



CHASSIS HARN 43 THRU 50

ITEM: 43						
CUMMINS PRIVATE DATABUS TERMINATING RESISTOR						
DTM06-2S-E004 (1)						
DEUTSCH						
OPT: ALL						
MAP: C20						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP1382D	0.5	J15	YW	J1939-15 POS	J1939-15
2	SP1383D	0.5	J15	DKGN	J1939-15 NEG	J1939-15

NOTES: WEDGE LOCK WM-2SB.



ITEM: 43A						
TERMINATION RESISTOR						
DTM04-2P-EP10						
DEUTSCH						
OPT: ALL						
MAP: C18						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE

NOTES: WEDGE LOCK WM-2PB ALREADY INCLUDED W/ CONNNECTOR AS ASSEMBLY, ATTACH TO ITEM 43.



ITEM: 44						
J1939 BACKBONE TERMINATING RESISTOR						
DTM06-2S-E004						
DEUTSCH						
OPT: ALL						
MAP: D127						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP1187J	0.5	J15	YW	J1939-15 POS	J1939-15
2	SP1188J	0.5	J15	DKGN	J1939-15 NEG	J1939-15

NOTES: WEDGE LOCK WM-2SB, GOLD STAMP AND FORM TERMINALS.



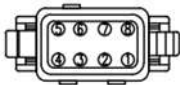
ITEM: 44A						
TERMINATION RESISTOR						
DTM04-2P-EP10						
DEUTSCH						
OPT: ALL						
MAP: E127						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE

NOTES: WEDGE LOCK WM-2PB INCLUDED AS ASSEMBLY, CONNECT TO ITEM 44.



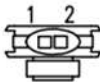
ITEM: 45						
DPF SENSOR TABLE CONNECTOR						
DTM06-8SA-EE04 (1)						
DEUTSCH						
OPT: ALL						
MAP: A23						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP1382B	0.5	J15	YW	J1939-15 POS	J1939-15
2	SP1383B	0.5	J15	DKGN	J1939-15 NEG	J1939-15
3	EN1089C	0.8	TXL	BK	AFTRTMENT GND	---
4	EN1088C	0.8	TXL	PK	AFTRTMENT IGN	---
5	EN1045	0.5	TXL	BK	ECU RETURN SENSOR	TWQ-1
6	EN1046	0.5	TXL	TN	DPF DELTA PRESSURE	TWQ-1
7	EN1047	0.5	TXL	PE	DPF OUTLET PRESSURE	TWQ-1
8	EN1048	0.5	TXL	OE	SENSOR SUPPLY 5V	TWQ-1

NOTES: WEDGE LOCK WM-8S, TERM 1062-20-0244-PS, TERM 1062-20-0144-PS, PLUG 0413-204-2005.



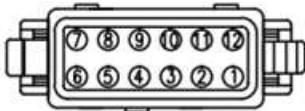
ITEM: 47						
DOSING MODULE VALVE (METERING VALVE)						
1928404072						
BOSCH KOMPAKT						
OPT: ALL						
MAP: A21						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	EN1023	0.8	TXL	YW	METERING VLV HIGH	TWP-42
2	EN1024	0.8	TXL	BK	METERING VLV LOW	TWP-42

NOTES: TERM: 1928498058; SEAL 1928300599.



ITEM: 48						
SCR SENSOR TABLE						
DTM06-12SD-EE04 (1)						
DEUTSCH						
OPT: ALL						
MAP: A17						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	PLUG	---	---	---	---	---
2	PLUG	---	---	---	---	---
3	PLUG	---	---	---	---	---
4	PLUG	---	---	---	---	---
5	PLUG	---	---	---	---	---
6	PLUG	---	---	---	---	---
7	SP1382C	0.5	J15	YW	J1939-15 POS	J1939-15
8	SP1383C	0.5	J15	DKGN	J1939-15 NEG	J1939-15
9	EN1089D	0.8	TXL	BK	AFTRTMENT GND	---
10	EN1088D	0.8	TXL	PK	AFTRTMENT IGN	---
11	SP1382D	0.5	J15	YW	J1939-15 POS	J1939-15
12	SP1383D	0.5	J15	DKGN	J1939-15 NEG	J1939-15

NOTES: WEDGE LOCK WM-12S, TERM 1062-20-0244, PLUG 0413-204-2005.



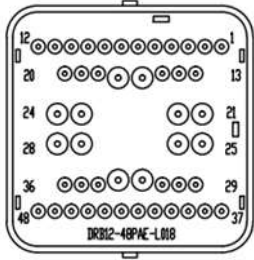
ITEM: 50						
FUEL SENDER						
DT06-2S						
DEUTSCH						
OPT: ALL						
MAP: A12						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP040	0.8	TXL	TN	FUEL SENDER SIG	---
2	SP270	0.8	TXL	BK	INSTRUMENT GND	---

NOTES: W2S WEDGE LOCK. USE DEUTSCH STAMPED & FORMED TERMINALS.



ITEM: 54						
CAB CONNECTION						
DRB12-48PAE-L018						
DEUTSCH						
OPT: -002						
MAP: A82						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP045	1.0	TXL	DKGN	RIGHT TURN SIG	---
2	SP044	1.0	TXL	YW	LEFT TURN SIG	---
3	SP040	0.8	TXL	TN	FUEL SNDR SIG	---
4	SP051	0.8	TXL	GY	HORN BUTTON	---
5	SP008	1.0	TXL	RD	MRKR LT PWR FT	---
6	SP1505A	1.0	TXL	RD	STP PRS SW1	---
7	SP015	1.0	TXL	PK	B/UP LT ACTIVE	---
8	SP270	0.8	TXL	BK	INSTRUMENT GND	---
9	SP1247	0.8	TXL	PK	STARTER INTERLOCK	---
10	SP528A	0.8	TXL	RD	DATALINK PWR	---
11	SP055A	0.8	TXL	PK	IGNITION SW	---
12	SP020	0.8	TXL	RD	INSTRUMENT PWR	---
13	SP058	2.0	TXL	RD	HDLMP PWR	---
14	SP060	2.0	TXL	RD	HDLP LO BM PWR	---
15	SP061	2.0	TXL	RD	HDLP HI BM PWR	---
16	SP185N	3.0	TXL	BK	CLEAN GND	---
17	SP006A	5.0	TXL	BK	COMMON GND	---
18	SP041	2.0	TXL	RD	HZD/TRNSIG PWR	---
19	SP0948	2.0	TXL	RD	WIPER PWR	---
20	SP1537	1.0	TXL	BE	CROSS GATE TRIGGER	---
21	SP533	3.0	TXL	RD	PWR VENT	---
22	SP533A	3.0	TXL	RD	PWR VENT	---
23	SP464	2.0	TXL	PK	HEATED MIRROR	---
24	SP095	2.0	TXL	PE	WIPER LOW	---
25	SP184	5.0	TXL	RD	BATTERY PWR	---
26	SP184A	5.0	TXL	RD	BATTERY PWR	---
27	SP184B	5.0	TXL	RD	BATTERY PWR	---
28	SP991	5.0	TXL	RD	PUMP POWER	---
29	SP1536	1.0	TXL	RD	CROSS GATE PWR	---
30	SP054	0.8	TXL	PK	IGN SW/ACC RLY	---
31	SP765	1.0	TXL	BN	MRKR LT	---
32	SP096	2.0	TXL	GY	WIPER HIGH	---
33	SP384	2.0	TXL	GY	WIPER PARK L	---
34	EN037	0.5	TXL	GY	WT TO ST LT	---
35	SP1422	0.8	TXL	BK	LOW PRESSURE OUT	---
36	SP363	0.8	TXL	GY	H*MAX FLOW SW	---
37	SP1507C	0.8	TXL	PK	INSTRUMENT IGN	---
38	SP583	1.0	TXL	GY	WASHER SIG (-)	---
39	SP209C	0.8	TXL	PK	J1587 POS	TWP-06
40	SP210C	0.8	TXL	GY	J1587 NEG	TWP-06
41	SP1187D	0.5	J15	YW	J1939-15 POS	J1939-15
42	SP1188D	0.5	J15	DKGN	J1939-15 NEG	J1939-15
43	SP1187A	0.5	J15	YW	J1939-15 POS	J1939-15
44	SP1188A	0.5	J15	DKGN	J1939-15 NEG	J1939-15
45	SP1030	0.8	TXL	YW	SPARE 0	---
46	SP1031	0.8	TXL	YW	SPARE 1	---
47	SP1032	0.8	TXL	YW	SPARE 2	---
48	SP522	0.5	TXL	BK	PARK ACTIVE	---

NOTES: ADD SECONDARY LOCK WB-48PAS, FLANGE DRBF-2A AND DUST CAP 3315-015-0005



ITEM: 55						
J1939 BACKBONE TERMINATING RESISTOR						
DTM06-2S-E004						
DEUTSCH						
OPT: ALL						
MAP: D127						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP1187H	0.5	J15	YW	J1939-15 POS	J1939-15
2	SP1188H	0.5	J15	DKGN	J1939-15 NEG	J1939-15

NOTES: WEDGE LOCK WM-2SB, GOLD STAMP AND FORM TERMINALS.



ITEM: 55A						
TERMINATION RESISTOR						
DTM04-2P-EP10						
DEUTSCH						
OPT: ALL						
MAP: E127						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE

NOTES: WEDGE LOCK WM-2PB INCLUDED AS ASSEMBLY, CONNECT TO ITEM 55



ITEM: 56						
BATTERY (+)						
3/8"						
RING TERMINAL						
OPT: ALL						
MAP: B41						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP184C	21.0	TXL	RD	BATTERY PWR	---

NOTES:



ITEM: 57						
IGNITION SOLENOID TRIG(-)						
M5						
RING TERMINAL						
OPT: ALL						
MAP: E80						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP006T	0.8	TXL	BK	COMMON GND	---

NOTES:



CONNECTOR VIEW - 10 CHASSIS HARN 54 THRU 60

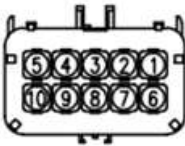
ITEM: 58						
IGNITION SOLENOID TRIG(+)						
M5						
RING TERMINAL						
OPT: ALL						
MAP: D80						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP055C	0.8	TXL	PK	IGNITION SW	---

NOTES:



ITEM: 59						
FRONT LIGHT DROP						
54201016						
FCI						
OPT: ALL						
MAP: D113						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP045B	1.0	TXL	DKGN	RIGHT TURN SIG	---
2	SP044B	1.0	TXL	YW	LEFT TURN SIG	---
3	SP060	2.0	TXL	RD	HDLP LO BM PWR	---
4	SP061	2.0	TXL	RD	HDLP HI BM PWR	---
5	SP464	2.0	TXL	PK	HEATED MIRROR	---
6	SP765B	1.0	TXL	BN	MRKR LT	---
7	---	---	---	---	---	---
8	SP006W	5.0	TXL	BK	COMMON GND	---
9	SP1536	1.0	TXL	RD	CROSS GATE PWR	---
10	SP1537	1.0	TXL	BE	CROSS GATE TRIGGER	---

NOTES: TERM: 54001401 AND 5400100; PLUG: 54200005.



ITEM: 60						
REAR RIGHT ABS SENSOR						
340-001						
LEONI						
OPT: -002						
MAP: C9						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP255	1.0	TXL	BK	ABS 2 SENS R2	TWP-10
B	SP254	1.0	TXL	BN	ABS 2 SENS R1	TWP-10

NOTES: MATING VIEW SHOWN.



CHASSIS HARN 61 THRU 70

ITEM: 61						
FRONT LEFT ABS SENSOR						
340-001						
LEONI						
OPT: -002						
MAP: E111						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP240	1.0	TXL	BK	ABS 1 SENS L2	TWP-07
B	SP241	1.0	TXL	BN	ABS 1 SENS L1	TWP-07

NOTES: MATING VIEW SHOWN.



ITEM: 62						
FRONT RIGHT ABS SENSOR						
340-001						
LEONI						
OPT: -002						
MAP: E94						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP243	1.0	TXL	BK	ABS 1 SENS R2	TWP-08
B	SP242	1.0	TXL	BN	ABS 1 SENS R1	TWP-08

NOTES: MATING VIEW SHOWN.



ITEM: 63						
REAR LEFT ABS SENSOR						
340-001						
LEONI						
OPT: -002						
MAP: D11						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP253	1.0	TXL	BK	ABS 2 SENS L2	TWP-09
B	SP252	1.0	TXL	BN	ABS 2 SENS L1	TWP-09

NOTES: MATING VIEW SHOWN.



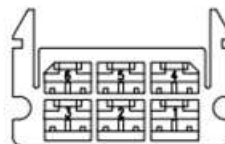
ITEM: 64						
DEFROSTER UNIT (WATERING VALVE)						
DT06-3S						
DEUTSCH						
OPT: ALL						
MAP: B74						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP1030	0.8	TXL	YW	SPARE 0	---
2	SP1031	0.8	TXL	YW	SPARE 1	---
3	SP1032	0.8	TXL	YW	SPARE 2	---

NOTES: ADD W3S AND USE TERMINALS 0462-201-16141.



ITEM: 65						
WIPER MOTOR						
163006-0						
AMP						
OPT: ALL						
MAP: A84						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP006AA	2.0	TXL	BK	COMMON GND	---
2	SP384	2.0	TXL	GY	WIPER PARK L	---
3	SP094A	2.0	TXL	RD	WIPER POWER	---
4	---	---	---	---	---	---
5	SP095	2.0	TXL	PE	WIPER LOW	---
6	SP096	2.0	TXL	GY	WIPER HIGH	---

NOTES:



ITEM: 66						
WASHER PWR						
FASTON 3-350819-2						
AMP						
OPT: ALL						
MAP: D96						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP098	1.0	TXL	RD	WASHER	---

NOTES:



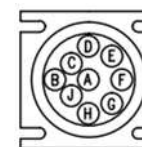
ITEM: 67						
WASHER SIGNAL (-)						
FASTON 3-350819-2						
AMP						
OPT: ALL						
MAP: E96						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP583	1.0	TXL	GY	WASHER SIGNAL (-)	---

NOTES:



ITEM: 68						
DIAGNOSTIC PORT						
HD10-9-1939PE						
DEUTSCH						
OPT: ALL						
MAP: D128						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP185V	0.8	TXL	BK	CLEAN GND	---
B	SP528B	0.8	TXL	RD	DATALINK PWR	---
C	SP1187M	0.5	J15	YW	J1939-15 POS	J1939-15
D	SP1188M	0.5	J15	DKGN	J1939-15 NEG	J1939-15
E	PLUG	---	---	---	---	---
F	SP209D	0.8	TXL	PK	J1587 POS	TWP-06
G	SP210D	0.8	TXL	GY	J1587 NEG	TWP-06
H	PLUG	---	---	---	---	---
J	PLUG	---	---	---	---	---

NOTES: HDC16-9 (CAP); 1847-NN2-001 (TETHER); HD18-009 (STRAIN RELIEF). ALTERNATIVE CONNECTOR DEUTSCH HD10-9-1939P.



ITEM: 70						
DIFFERENTIAL PRESSURE SENSOR						
54001078						
NEXANS AUTOELECTRIC						
OPT: -002						
MAP: A91						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	PLUG	---	---	---	---	---
2	SP1422	0.8	TXL	BK	LOW PRESSURE OUT	---

NOTES: FCI TERMINAL 54001807. FCI TERMINAL F676000.



CHASSIS HARN 71 THRU 530

ITEM: 71						
BACKUP PUMP CASE GND						
¾"						
RING TERMINAL						
OPT: -002						
MAP: A86						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP006AC	5.0	TXL	BK	COMMON GND	---

NOTES:



ITEM: 72						
PARK BRAKE (HYDRAULIC)						
174056-2						
AMP						
OPT: -002						
MAP: B50						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP006AD	0.5	TXL	BK	COMMON GND	---
2	SP522	0.5	TXL	BK	PARK ACTIVE	---

NOTES: TERMINALS 175062-1 OR EQUIVALENT.



ITEM: 73						
LEFT TURN/MARKER						
12110293						
PACKARD						
OPT: ALL						
MAP: E78						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP006AE	0.8	TXL	BK	COMMON GND	---
B	SP044A	0.5	TXL	YW	LEFT TURN SIG	---
C	SP765A	0.5	TXL	BN	MRKR LT	---

NOTES: TERM: 12084200(20AWG) AND 12048074(16AWG-18AWG), SEAL 12048087, TPA 12052845.



ITEM: 77						
J1939 BACKBONE TERMINATING RESISTOR						
DTM06-2S-E004						
DEUTSCH						
OPT: ALL						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP1187E	0.5	J15	YW	J1939-15 POS	J1939-15
2	SP1188E	0.5	J15	DKGN	J1939-15 NEG	J1939-15

NOTES: WEDGE LOCK WM-2SB, GOLD STAMP AND FORM TERMINALS



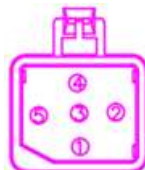
ITEM: 74						
RIGHT TURN/MARKER						
12110293						
PACKARD						
OPT: ALL						
MAP: C87						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP006AF	0.8	TXL	BK	COMMON GND	---
B	SP045A	0.5	TXL	DKGN	RIGHT TURN SIG	---
C	SP765C	0.5	TXL	BN	MRKR LT	---

NOTES: TERM: 12084200(20AWG) AND 12048074(16AWG-18AWG), SEAL 12048087, TPA 12052845.



ITEM: 81						
CRUISE CONTROL RELAY						
12092605						
DELPHI						
OPT: ALL						
MAP: E112						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
30	EN1083B	0.5	TXL	BK	ECM RET 62	---
85	SP006BA	0.5	TXL	BK	COMMON GND	---
87A	EN011	0.5	TXL	GY	BRAKE SW SIG	---
87	---	---	---	---	---	---
86	SP1081M	0.5	TXL	RD	STOP LTS	---

NOTES: CONNECTOR CAVITY/RELAY CAVITY (1/30), (2/85), (3/87A), (4/87), (5/86).



ITEM: 82						
AUX BRAKE LAMP RELAY						
12077951						
DELPHI						
OPT: ALL						
MAP: E109						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
30	SP1505C	0.8	GXL	RD	STP PRS SW1	---
85	EN1089E	0.8	GXL	BK	AFTRTMENT GND	---
87A	---	---	---	---	---	---
87	SP1081N	0.8	GXL	RD	STOP LTS	---
86	EN1002	0.8	GXL	PK	AUX BRAKE LAMP	TWP-37

NOTES: CONNECTOR CAVITY/RELAY CAVITY (1/30), (2/85), (3/87A), (4/87), (5/86).



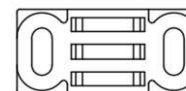
ITEM: 86						
AMBIENT AIR TEMP SENSOR						
13520104						
DELPHI						
OPT: ALL						
MAP: A31						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	EN1060	0.5	TXL	WE	AMBIENT AIR TEMP SEN	TWP-46
B	EN1061	0.5	TXL	BK	AMBIENT AIR TEMP SEN	TWP-46

NOTES: CPA: 15496486, TERMINAL: 15326267, SEAL: 15305351.



ITEM: 530						
HARNESS STRAIN RELIEF (ETP)						
13856709						
DELPHI						
OPT: ALL						
MAP: C119						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE

NOTES: ATTACH TO HARNESS AS SHOWN IN DETAIL C.



ITEM: 88						
J1939 BACKBONE TERMINATING RESISTOR						
DTM06-2S-E004						
DEUTSCH						
OPT: ALL						
MAP: D127						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP1187P	0.5	J15	YW	J1939-15 POS	J1939-15
2	SP1188P	0.5	J15	DKGN	J1939-15 NEG	J1939-15

NOTES: WEDGE LOCK WM-2SB, GOLD STAMP AND FORM TERMINALS



ITEM: 88A						
TERMINATING RESISTOR						
DTM04-2P-EP10						
DEUTSCH						
OPT: ALL						
MAP: E127						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE

NOTES: WEDGE LOCK WM-2PB INCLUDED AS ASSEMBLY, CONNECT TO ITEM 55



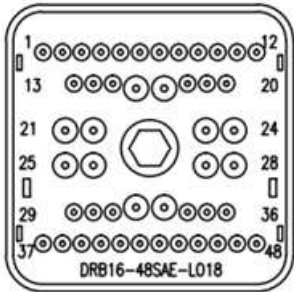
CONNECTOR VIEW

3870-GG5-002

CAB HARNESS

ITEM: 1						
CAB CONNECTION						
DRB16-48SAE-L018						
DEUTSCH						
OPT: -002						
MAP: D11						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP045A	1.0	TXL	DKGN	RIGHT TURN SIG	---
2	SP044A	1.0	TXL	YW	LEFT TURN SIG	---
3	SP040	0.8	TXL	TN	FUEL SNDR SIG	---
4	SP051	0.8	TXL	GY	HORN BUTTON	---
5	SP008	1.0	TXL	RD	MRKR LT PWR FT	---
6	SP1505	1.0	TXL	RD	STP PRS SW1	---
7	SP015	1.0	TXL	PK	B/UP LT ACTIVE	---
8	SP270	0.8	TXL	BK	INSTRUMENT GND	---
9	SP1247	0.8	TXL	PK	STARTER INTERLOCK	---
10	SP528	0.8	TXL	RD	DATALINK PWR	---
11	SP055	0.8	TXL	PK	IGNITION SW	---
12	SP020	0.8	TXL	RD	INSTRUMENT PWR	---
13	SP058	2.0	TXL	RD	HDLP PWR	---
14	SP060	2.0	TXL	RD	HDLP LO BM PWR	---
15	SP0618	2.0	TXL	RD	HDLP HI BM PWR	---
16	SP185	3.0	TXL	BK	CLEAN GND	---
17	SP006	5.0	TXL	BK	COMMON GND	---
18	SP041	2.0	TXL	RD	HZD/TRNSIG PWR	---
19	SP094F	2.0	TXL	RD	WIPER PWR	---
20	SP1537	1.0	TXL	BE	CROSS GATE TRIGGER	---
21	SP533	3.0	TXL	RD	PWR VENT	---
22	SP533A	3.0	TXL	RD	PWR VENT	---
23	SP464	2.0	TXL	PK	HEATED MIRROR	---
24	SP095	2.0	TXL	PE	WIPER LOW	---
25	SP184	5.0	TXL	RD	BATTERY PWR	---
26	SP184A	5.0	TXL	RD	BATTERY PWR	---
27	SP184B	5.0	TXL	RD	BATTERY PWR	---
28	SP991	5.0	TXL	RD	PUMP POWER	---
29	SP1536	1.0	TXL	RD	CROSS GATE PWR	---
30	SP054	0.8	TXL	PK	IGN SW/ACC RLY	---
31	SP765A	1.0	TXL	BN	MRKR LT	---
32	SP096F	2.0	TXL	GY	WIPER HIGH	---
33	SP384	2.0	TXL	GY	WIPER PARK L	---
34	EN037	0.5	TXL	GY	WT TO ST LT	---
35	SP1422	0.8	TXL	BK	LOW PRESSURE OUT	---
36	SP363	0.8	TXL	GY	H'MAX FLOW SW	---
37	SP1507	0.8	TXL	PK	INSTRUMENT IGN	---
38	SP583	1.0	TXL	GY	WASHER SIG (-)	---
39	SP209	0.8	TXL	PK	J1587 POS	TWP-06
40	SP210	0.8	TXL	GY	J1587 NEG	TWP-06
41	SP1187	0.5	---	YW	J1939-15 POS	J1939-15
42	SP1188	0.5	---	DKGN	J1939-15 NEG	J1939-15
43	SP1187A	0.5	---	YW	J1939-15 POS	J1939-15
44	SP1188A	0.5	---	DKGN	J1939-15 NEG	J1939-15
45	SP1030	0.8	TXL	YW	SPARE 0	---
46	SP1031	0.8	TXL	YW	SPARE 1	---
47	SP1032	0.8	TXL	YW	SPARE 2	---
48	SP522	0.8	TXL	BK	PARK ACTIVE	---

NOTES: ADD SECONDARY LOCK WB-48SA.



ITEM: 2						
HEAD LIGHT SWITCH POWER						
02977253						
PACKARD						
OPT: ALL						
MAP: A20						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP059	2.0	TXL	RD	HIGH LOW SW	---

NOTES: TERM: 02956142 (F).



ITEM: 3						
HIGH BEAM SIGNAL						
02977253						
PACKARD						
OPT: ALL						
MAP: A19						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP061	2.0	TXL	RD	HDLP HI BM PWR	---

NOTES: TERM: 02965142 (F).



ITEM: 5						
STEERING COLUMN INTERFACE						
02965977						
PACKARD						
OPT: ALL						
MAP: A24						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	---	---	---	---	---	---
2	SP042B	2.0	TXL	RD	FLASHER OUTPUT	---
3	SP051A	0.8	TXL	GY	HORN BUTTON	---
3	SP051	0.8	TXL	GY	HORN BUTTON	---
4	SP101	2.0	TXL	RD	TURN SIGNAL PWR	---
5	---	---	---	---	---	---
6	---	---	---	---	---	---
7	SP045	1.0	TXL	DKGN	RIGHT TURN SIG	---
8	SP044	1.0	TXL	YW	LEFT TURN SIG	---

NOTES: TERM: 02965467 & 02965401 (F).

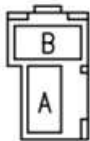


CONNECTOR VIEW - 2

CAB HARN 1 THRU 8

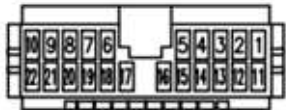
ITEM: 7						
HEATER/DEFROSTER UNIT						
02973781						
PACKARD						
OPT: ALL						
MAP: D24						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP533C	3.0	TXL	RD	PWR VENT	---
B	SP006J	3.0	TXL	BK	COMMON GND	---

NOTES: TERM: (3.0 02965143).



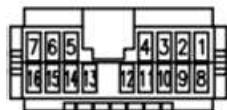
ITEM: 8						
LIGHT BAR J2						
IL-AG5-22S-D3C1						
JAE						
OPT: -002						
MAP: A33						
CAV	CIRCUIT	SIZE (mm²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	---	---	---	---	---	---
2	SP522A	0.8	TXL	BK	PARK ACTIVE	---
3	---	---	---	---	---	---
4	SP1422	0.8	TXL	BK	LOW PRESSURE OUT	---
5	---	---	---	---	---	---
6	---	---	---	---	---	---
7	---	---	---	---	---	---
8	---	---	---	---	---	---
9	---	---	---	---	---	---
10	---	---	---	---	---	---
11	---	---	---	---	---	---
12	---	---	---	---	---	---
13	SP1518	0.8	TXL	PK	EMER DR LK IND	---
14	SP1077	0.8	TXL	DKGN	RIGHT TURN TO GAUGE	---
15	SP1076	0.8	TXL	YW	LEFT TURN TO GAUGE	---
16	SP1078	0.8	TXL	RD	HIGH BEAM TO GAUGE	---
17	SP1520	0.8	TXL	PK	AMBER LT ACTIVE IND	---
18	---	---	---	---	---	---
19	---	---	---	---	---	---
20	---	---	---	---	---	---
21	---	---	---	---	---	---
22	EN037	0.5	TXL	GY	WT TO ST LT	---

NOTES:



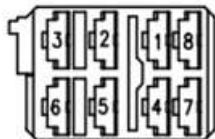
ITEM: 9						
LMC J1						
IL-AG5-16S-D3C1-A						
JAE						
OPT: ALL						
MAP: A38						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP551B	0.8	TXL	RD	BACK LT PWR	---
2	SP040	0.8	TXL	TN	FUEL SNDR SIG	---
3	---	---	---	---	---	---
4	SP1519	0.8	TXL	PK	RED LIGHT ACTIVE IND	---
5	---	---	---	---	---	---
6	---	---	---	---	---	---
7	SP185A	0.8	TXL	BK	CLEAN GND	---
8	SP1507	0.8	TXL	PK	INSTRUMENT IGN	---
9	SP270	0.8	TXL	BK	INSTRUMENT GND	---
10	---	---	---	---	---	---
11	SP209A	0.8	TXL	PK	J1587 POS	TWP-06
12	SP210A	0.8	TXL	GY	J1587 NEG	TWP-06
13	SP1187A	0.5	---	YW	J1939-15 POS	J1939-15
14	SP1188A	0.5	---	DKGN	J1939-15 NEG	J1939-15
15	SP185B	0.8	TXL	BK	CLEAN GND	---
16	SP020	0.8	TXL	RD	INSTRUMENT PWR	---

NOTES:



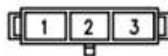
ITEM: 10						
HDLP/MRKR SWITCH						
VCH						
CARLINGSWITCH						
OPT: ALL						
MAP: D36						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	---	---	---	---	---	---
2	SP008	1.0	TXL	RD	MRKR LT PWR FT	---
3	SP1095	1.0	TXL	PK	MARKER SWITCH SIGNAL	---
4	---	---	---	---	---	---
5	SP058A	2.0	TXL	RD	HDLP PWR	---
6	SP059A	2.0	TXL	RD	HIGH LOW SW	---
7	SP006K	0.8	TXL	BK	COMMON GND	---
8	SP551C	0.8	TXL	RD	BACK LT PWR	---
8	SP551D	0.8	TXL	RD	BACK LT PWR	---

NOTES:



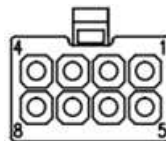
ITEM: 11						
DIMMER SWITCH						
LD1-01						
CARLINGSWITCH						
OPT: ALL						
MAP: E39						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP009	0.8	TXL	RD	DSH LP PWR	---
2	SP551	0.8	TXL	RD	BACK LT PWR	---
2	SP551C	0.8	TXL	RD	BACK LT PWR	---
3	SP006A	0.8	TXL	BK	COMMON GND	---
3	SP006K	0.8	TXL	BK	COMMON GND	---

NOTES:



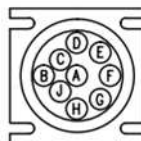
ITEM: 12						
WIPERS/WASHER SW						
770579-1						
AMP						
OPT: ALL						
MAP: D35						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP094E	1.0	TXL	RD	WIPER POWER	---
2	SP551	0.8	TXL	RD	BACK LT PWR	---
2	SP551B	0.8	TXL	RD	BACK LT PWR	---
3	SP095A	1.0	TXL	PE	WIPER LOW	---
4	SP096	1.0	TXL	GY	WIPER HIGH	---
5	SP583	1.0	TXL	GY	WASHER SIGNAL (-)	---
6	SP006H	1.0	TXL	BK	COMMON GND	---
7	---	---	---	---	---	---
8	---	---	---	---	---	---

NOTES:



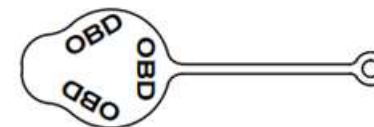
ITEM: 13						
DIAGNOSTIC PORT						
HD10-9-1939PE						
DEUTSCH						
OPT: ALL						
MAP: D44						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP185C	0.8	TXL	BK	CLEAN GND	---
B	SP528	0.8	TXL	RD	DATALINK PWR	---
C	SP1187	0.5	---	YW	J1939-15 POS	J1939-15
D	SP1188	0.5	---	DKGN	J1939-15 NEG	J1939-15
E	PLUG	---	---	---	---	---
F	SP209B	0.8	TXL	PK	J1587 POS	TWP-06
G	SP210B	0.8	TXL	GY	J1587 NEG	TWP-06
H	PLUG	---	---	---	---	---
J	PLUG	---	---	---	---	---

NOTES: ALTERNATIVE CONNECTOR DEUTSCH HD10-9-1939P.



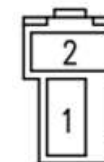
ITEM: 13A						
OBD 9-PIN CAP						
005M5510800						
GLASSMASTER CONTROL						
OPT: ALL						
MAP: D47						

NOTES: ZIP THE ITEM 13A TO ITEM 13 HARNESS DROP
GLASSMASTER CONTROL COMPANY, INC. PHONE #269-382-2010.



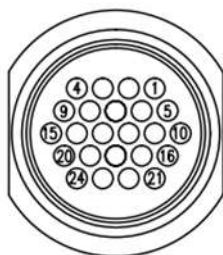
ITEM: 14						
CUSTOMER PWR CONNECTION						
02973781						
PACKARD						
OPT: ALL						
MAP: A41						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP190	5.0	TXL	RD	CUST BATT	---
2	SP192A	5.0	TXL	RD	CUST ACC	---

NOTES: TERM: (5.0 06288913).



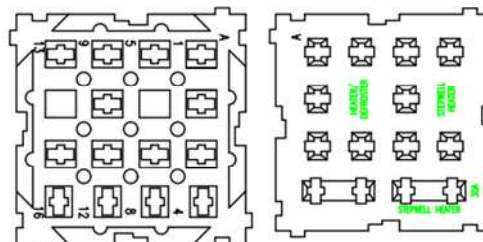
ITEM: 15						
CUSTOMER CONNECTION						
206838-4						
AMP						
OPT: ALL						
MAP: A44						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP006C	1.0	TXL	BK	COMMON GND	---
2	SP551E	0.8	TXL	RD	BACK LT PWR	---
3	SP051B	0.8	TXL	GY	HORN BUTTON	---
4	SP765	1.0	TXL	BN	MRKR LT	---
5	SP015	1.0	TXL	PK	B/UP LT ACTIVE	---
6	SP1081	1.0	TXL	RD	STOP LTS	---
7	SP950	0.8	TXL	PE	HDLP LOW BEAM SIG	---
8	SP044B	1.0	TXL	YVW	LEFT TURN SIG	---
9	SP045B	1.0	TXL	DKGN	RIGHT TURN SIG	---
10	SP1247	0.8	TXL	PK	STARTER INTERLOCK	---
11	SP1536	1.0	TXL	RD	CROSS GATE PWR	---
12	SP1537	1.0	TXL	BE	CROSS GATE TRIGGER	---
13	SP464	2.0	---	PK	HEATED MIRROR	---
14	---	---	---	---	---	---
15	---	---	---	---	---	---
16	---	---	---	---	---	---
17	SP1518	0.8	TXL	PK	EMER DR LK IND	---
18	SP1519	0.8	TXL	PK	RED LIGHT ACTIVE IND	---
19	SP1520	0.8	TXL	PK	AMBER LT ACTIVE IND	---
20	SP1523	0.8	TXL	BK	NOISE SUPPRESSION	---
21	---	---	---	---	---	---
22	---	---	---	---	---	---
23	---	---	---	---	---	---
24	---	---	---	---	---	---

NOTES:



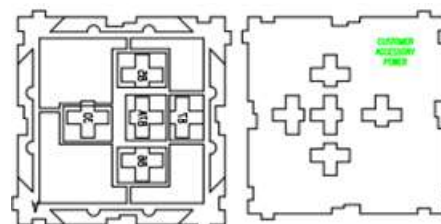
ITEM: 17						
HEATER/DEFROSTER RELAYS/FUSES						
59225						
DILL BLOCKS						
OPT: -002						
MAP: A52						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP533C	3.0	TXL	RD	PWR VENT	---
2	---	---	---	---	---	---
3	SP1523A	0.8	TXL	BK	NOISE SUPPRESSION	---
4	---	---	---	---	---	---
5	SP055B	0.8	TXL	PK	IGNITION SW	---
5	SP055C	0.8	TXL	PK	IGNITION SW	---
6	---	---	---	---	---	---
7	SP533B	3.0	TXL	RD	PWR VENT	---
8	---	---	---	---	---	---
9	SP428B	3.0	TXL	RD	HTR PWR	---
10	---	---	---	---	---	---
11	SP1523	0.8	TXL	BK	NOISE SUPPRESSION	---
11	SP1523A	0.8	TXL	BK	NOISE SUPPRESSION	---
12	SP428	3.0	TXL	RD	HTR PWR	---
13	SP055F	0.8	TXL	PK	IGNITION SW	---
13	SP055B	0.8	TXL	PK	IGNITION SW	---
14	---	---	---	---	---	---
15	SP428A	3.0	TXL	RD	HTR PWR	---
16	SP428A	3.0	TXL	RD	HTR PWR	---

NOTES:



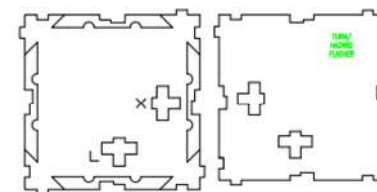
ITEM: 18						
CUSTOMER ACCESSORY POWER RELAY						
59022						
PACKARD						
OPT: ALL						
MAP: E52						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
30	SP184	5.0	TXL	RD	BATTERY PWR	---
87	SP192	5.0	TXL	RD	CUST ACC	---
87A	---	---	---	---	---	---
86	SP054	0.8	TXL	PK	IGN SW/ACC RLY	---
85	SP006D	0.8	TXL	BK	COMMON GND	---
85	SP006N	0.8	TXL	BK	COMMON GND	---

NOTES:



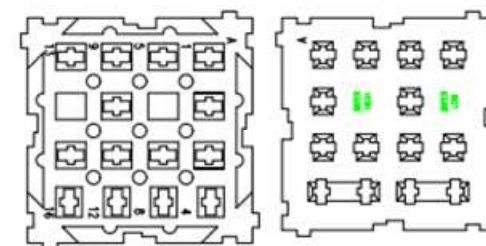
ITEM: 19						
TURN/HAZARD FLASHER						
59027						
DILL BLOCKS						
OPT: ALL						
MAP: C56						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
X	SP041	2.0	TXL	RD	HZD/TRNSIG PWR	---
L	SP042	2.0	TXL	RD	FLASHER OUTPUT	---

NOTES: ATTACH HAMSAR P/N 40-127/1. TAKE BLACK GROUND WIRE AND DAISY CHAIN WITH ITEM 22 CAVITY 3 SP006D.



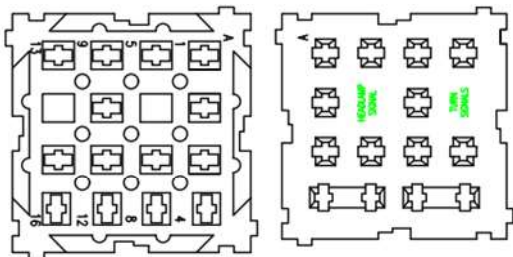
ITEM: 20						
WIPER RELAYS						
59225						
DILL BLOCKS						
OPT: ALL						
MAP: A54						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP096F	2.0	TXL	GY	WIPER HIGH	---
2	SP094	2.0	TXL	RD	WIPER POWER	---
3	SP096	1.0	TXL	GY	WIPER HIGH	---
4	---	---	---	---	---	---
5	SP094B	1.0	TXL	RD	WIPER POWER	---
6	---	---	---	---	---	---
7	SP094C	2.0	TXL	RD	WIPER POWER	---
8	---	---	---	---	---	---
9	SP094	2.0	TXL	RD	WIPER POWER	---
10	SP384	2.0	TXL	GY	WIPER PARK L	---
11	SP095A	1.0	TXL	PE	WIPER LOW	---
12	---	---	---	---	---	---
13	SP094A	1.0	TXL	RD	WIPER POWER	---
13	SP094B	1.0	TXL	RD	WIPER POWER	---
14	---	---	---	---	---	---
15	SP095	2.0	TXL	PE	WIPER LOW	---
16	---	---	---	---	---	---

NOTES:



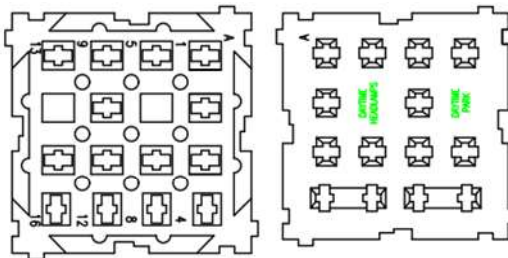
ITEM: 21						
DIODES/RELAYS						
59225						
DILL BLOCKS						
OPT: ALL						
MAP: D56						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP060C	2.0	TXL	RD	HDLP LO BM PWR	---
2	---	---	---	---	---	---
3	SP006E	0.8	TXL	BK	COMMON GND	---
3	SP006N	0.8	TXL	BK	COMMON GND	---
4	---	---	---	---	---	---
5	SP950	0.8	TXL	PE	HDLP LOW BEAM SIG	---
5	SP060D	0.8	TXL	RD	HDLP LO BM PWR	---
6	---	---	---	---	---	---
7	SP058C	2.0	TXL	RD	HDLP PWR	---
8	---	---	---	---	---	---
9	SP101	2.0	TXL	RD	TURN SIGNAL PWR	---
10	---	---	---	---	---	---
11	SP006B	0.8	TXL	BK	COMMON GND	---
11	SP006E	0.8	TXL	BK	COMMON GND	---
12	---	---	---	---	---	---
13	SP055A	0.8	TXL	PK	IGNITION SW	---
13	SP055	0.8	TXL	PK	IGNITION SW	---
14	---	---	---	---	---	---
15	SP042A	2.0	TXL	RD	FLASHER OUTPUT	---
16	---	---	---	---	---	---

NOTES:



ITEM: 22						
HEADLAMP RELAYS						
59225						
DILL BLOCKS						
OPT: ALL						
MAP: B54						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP058D	2.0	TXL	RD	HDLP PWR	---
2	---	---	---	---	---	---
3	SP006D	0.8	TXL	BK	COMMON GND	---
4	---	---	---	---	---	---
5	SP055A	0.8	TXL	PK	IGNITION SW	---
5	SP055E	0.8	TXL	PK	IGNITION SW	---
6	---	---	---	---	---	---
7	SP058B	2.0	TXL	RD	HDLP PWR	---
8	---	---	---	---	---	---
9	---	---	---	---	---	---
10	SP060B	2.0	TXL	RD	HDLP LO BM PWR	---
11	SP522B	0.8	TXL	BK	PARK ACTIVE	---
12	---	---	---	---	---	---
13	SP055E	0.8	TXL	PK	IGNITION SW	---
13	SP055F	0.8	TXL	PK	IGNITION SW	---
14	---	---	---	---	---	---
15	SP058D	2.0	TXL	RD	HDLP PWR	---
16	---	---	---	---	---	---

NOTES:



ITEM: 23						
DEFROSTER UNIT (WATERING VALVE)						
02984678						
PACKARD						
OPT: ALL						
MAP: E26						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP1030	0.8	TXL	YW	SPARE 0	---
B	SP1032	0.8	TXL	YW	SPARE 1	---
C	SP1031	0.8	TXL	YW	SPARE 2	---

NOTES: TERM: 02965481 18-20GA.



ITEM: 24						
STEPWELL HEATER						
02984378						
PACKARD						
OPT: ALL						
MAP: E28						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP428B	3.0	TXL	RD	HTR PWR	---
B	---	---	---	---	---	---
C	SP006P	3.0	TXL	BK	COMMON GND	---

NOTES: TERM (3.0 02965143).



ITEM: 25						
STEPWELL HEATER POWER						
3/8"						
RING TERMINAL						
OPT: ALL						
MAP: A20						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP428	3.0	TXL	RD	HTR PWR	---

NOTES:



ITEM: 26						
HVAC PANEL BACKLIGHTING						
02984883						
PACKARD						
OPT: ALL						
MAP: D25						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP551A	0.8	TXL	RD	BACK LT PWR	---
B	SP006L	0.8	TXL	BK	COMMON GND	---

NOTES: TERM: 02965481 18—20GA.



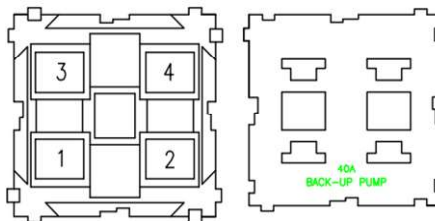
ITEM: 29						
BRAKE SWITCH						
12162197						
PACKARD						
OPT: -002						
MAP: A26						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
A	SP1505A	1.0	TXL	RD	STP PRS SW1	---
B	SP1081D	1.0	TXL	RD	STOP LTS	---

NOTES:



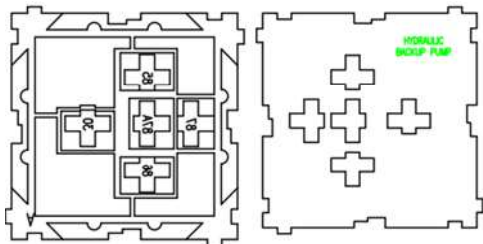
ITEM: 31						
HYDRAULIC PUMP PWR						
59236						
DILL BLOCKS						
OPT: -002						
MAP: A56						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP184B	5.0	TXL	RD	BATTERY PWR	---
2	SP184C	5.0	TXL	RD	BATTERY PWR	---
3	---	---	---	---	---	---
4	---	---	---	---	---	---

NOTES:



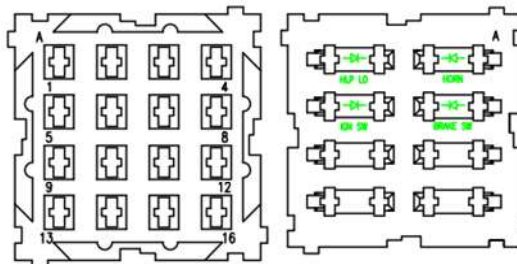
ITEM: 30						
HYDRAULIC BACKUP PUMP						
59022						
PACKARD						
OPT: -002						
MAP: B56						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
30	SP184C	5.0	TXL	RD	BATTERY PWR	---
87	SP991	5.0	TXL	RD	PUMP POWER	---
87A	---	---	---	---	---	---
86	SP055D	0.8	TXL	PK	IGNITION SW	---
86	SP1081C	0.8	TXL	RD	STOP LTS	---
85	SP363	0.8	TXL	GY	H'MAX FLOW SW	---

NOTES:



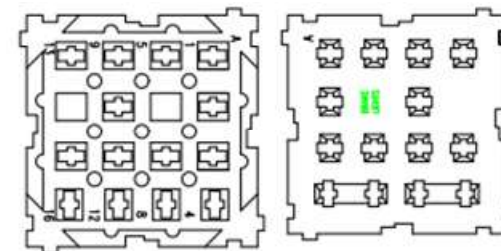
ITEM: 32						
DIODES						
59224						
DILL BLOCKS						
OPT: -002						
MAP: A51						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP051A	0.8	TXL	GY	HORN BUTTON	---
2	SP051B	0.8	TXL	GY	HORN BUTTON	---
3	SP060D	0.8	TXL	RD	HDLP LO BM PWR	---
4	SP060A	0.8	TXL	RD	HDLP LO BM PWR	---
5	SP1081B	0.8	TXL	RD	STOP LTS	---
6	SP1081C	0.8	TXL	RD	STOP LTS	---
7	SP055D	0.8	TXL	PK	IGNITION SW	---
8	SP055C	0.8	TXL	PK	IGNITION SW	---
9	---	---	---	---	---	---
10	---	---	---	---	---	---
10	---	---	---	---	---	---
11	---	---	---	---	---	---
12	---	---	---	---	---	---
13	---	---	---	---	---	---
14	---	---	---	---	---	---
15	---	---	---	---	---	---
16	---	---	---	---	---	---

NOTES:



ITEM: 33						
BRAKE LIGHTS RELAY						
59225						
DILL BLOCKS						
OPT: -002						
MAP: B48						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP1081	1.0	TXL	RD	STOP LTS	---
1	SP1081K	0.8	TXL	RD	STOP LTS	---
2	---	---	---	---	---	---
3	SP006R	0.8	TXL	BK	COMMON GND	---
4	---	---	---	---	---	---
5	SP1081A	0.8	TXL	RD	STOP LTS	---
6	---	---	---	---	---	---
7	SP1505B	1.0	TXL	RD	STP PRS SW1	---
8	---	---	---	---	---	---
9	---	---	---	---	---	---
10	---	---	---	---	---	---
11	---	---	---	---	---	---
12	---	---	---	---	---	---
13	---	---	---	---	---	---
13	---	---	---	---	---	---
14	---	---	---	---	---	---
15	---	---	---	---	---	---
16	---	---	---	---	---	---

NOTES:



ITEM: 45						
RUN HARNESS INTERFACE						
1-350867-0						
AMP						
OPT: -002						
MAP: D18						
CAV	CIRCUIT	SIZE (mm ²)	MAT.	COLOR	DESCRIPTION	WIRES NOTE
1	SP1081K	0.8	TXL	RD	STOP LTS	---

NOTES: USE SOCKET.



