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5	Antenna connections
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30	Body - RF Seat
31	Body - Side and Rear-View Mirrors
32	Body - Interior Lighting
33	Parking System including Rear View
34	Advanced Safety - Blind Zone and Forward Camera, Front Radar
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38	PowerTrain CAN Network
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Table 1: Abbreviations

LF	Left Front	RR	Right Rear
RF	Right Front	MF	Middle Front
LR	Left Rear	-	-

Table 2: Multi-way Connector Designators

LFDHC	LF Door Harness Connector	CCHC	Center Console Harness Connector
LRDHC	LR Door Harness Connector	IPHCL/R	Instrument Panel Harness Connector (Left/Right)
RFDHC	RF Door Harness Connector	RSFHC	Rear Subframe harness connector
RRDHC	RR Door Harness Connector	WW%/%	WW=wire-to-wire %/%=from-to designator
TGHC	TailGate Harness Connector	-	-

Table 3: Harness Designators

A	Body Harness, Left Floor	N	Front Harness, Right Side
B	Body Harness, Right Floor	P	Front Passenger (RF) Door Harness
C	Center Console	Q	Front Harness, Left side
D	Driver (LF) Door Harness	R	LR Door Harness
E	Sunroof Subsystem Harness	S	RR Door Harness
F	Front Bumper Harness	T	Tailgate Harness - Right
G	Rear Bumper Harness	U	Tailgate Harness - Left
H	High Voltage Wiring (for reference only)	V	HVAC Unit Subharness (part of assembly)
J	Instrument Panel (Dashboard) Harness	W	Steering Wheel Harness (from Clockspring out)
K	Headliner	X	Rear subframe subharness
L	Front End Module	Y	td
M	Main Harness, Lower IP and Front Trunk area	Z	Single Cables - Each circuit is a separate assembly

Table 4: Wire Color Designators

BK	Black	LB	Light Blue	RD	Red	NA	coax-center
BR	Brown	LG	Light Green	TN	Tan	SH	coax-shield
DB	Dark Blue	OR	Orange	WT	White	-	-
DG	Dark Green	PK	Pink	YL	Yellow	-	-
GY	Gray	VT	Violet (Purple)	-	-	-	-

Striped wires are indicated by base-color code "-" then stripe color code. "BR-BK" indicates a brown wire with a black stripe.

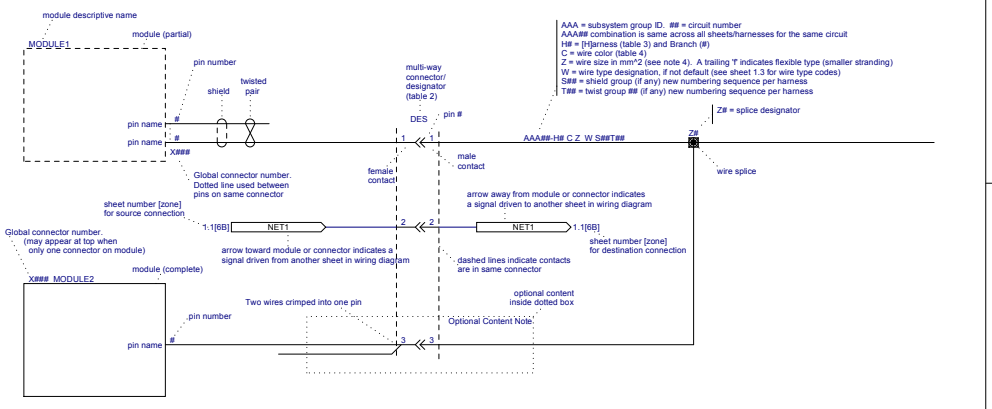
Table 5: Wire Type Designators

TWP	SAE J1128 TWP : thin-wall 105C rated	TXL	SAE J1128 TXL : thin-wall 125C rated
STX	SAE J1127 STX : thin-wall 125C rated	SGX	SAE J1127 SGX : general purpose 125C rated
J	flexible type (add to any type) = small strand	RFXFA	SAE J1128 TXL-F thin-wall high-flex 125C rated
CAVS	JASO D-611 CAVS specification wire, 85C		

- General Notes:**
- Switches (Relays) are shown in their inactive (de-energized) state.
 - Splices may be split across pages for visual clarity with respect to the function displayed on the particular page.
 - Some connectors are split across multiple pages for clarity. There is no overall reference in this document for the signals routed to a specific connector.
 - Wire sizes are specified in mm² cross-sectional area (CSA) per SAE 1127/8.

Size Shown	Wire Specification	Usage	Size Shown	Wire Specification	Usage
0.22	SAE 0.22 / 24AWG	5.0	SAE 5.0 / 10AWG		
0.35	SAE 0.35 / 22AWG	6.0	SAE 6.0 / 8AWG		
0.5	SAE 0.5 / 20 AWG	13.0	SAE 13.0 / 6AWG		
0.75	SAE 0.8 / 18AWG	20.0	SAE 19.0 / 4AWG		
1.0	SAE 1.0 / 16AWG	32.0	SAE 32.0 / 2AWG		
2.0	SAE 2.0 / 14AWG	40.0	SAE 40.0 / 1AWG		
3.0	SAE 3.0 / 12AWG	50.0	SAE 50.0 / 10AWG		
 - Wire specification: 60V, thin-wall PVC (SAE TWP type or equivalent), unless otherwise specified in wire label. Default wire type to be rated 60VDC/25VAC and -40C to 105C operating temperature. See sheet 43 for further details and to correlate specific cabling types to harness application. Twisted pairs may be manufactured of above wire by harness manufacturer.

P=30mm +/-5mm for CSA<=1.0	
P=60mm +/-5mm for CSA>1.0	
PRMT PARAM WireType Defgnt TWP	
 - Unless otherwise specified, terminal plating is to be Tin or Pre-Tin
 - For connectors with multiple instances of the same wire color in a similar or the same size, the terminal may not be inserted into the exact cavity specified. This applies only to joint connectors in the GR## range or XT00-X799 range, where the wires are connected together internally by the joint connector.
 - Inline connector gender specification is based on the terminal type. Inline connectors with "M" suffix have male, tab or pin terminals. Inline connectors with "F" suffix have female, receptacle or socket terminals.



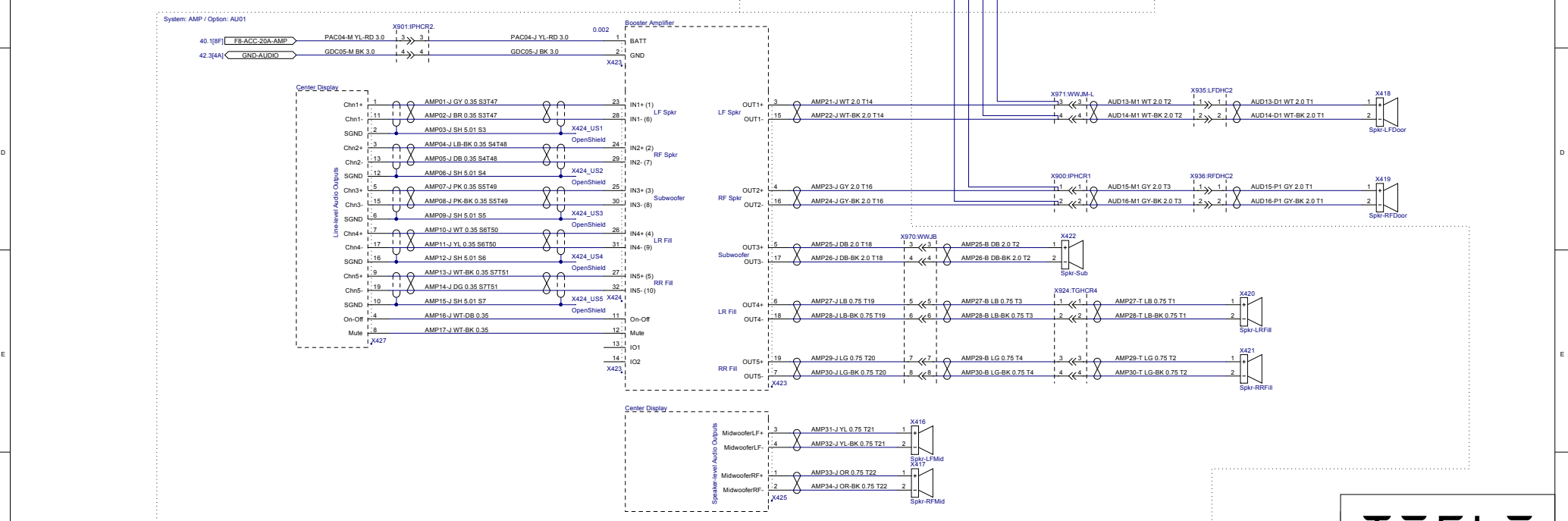
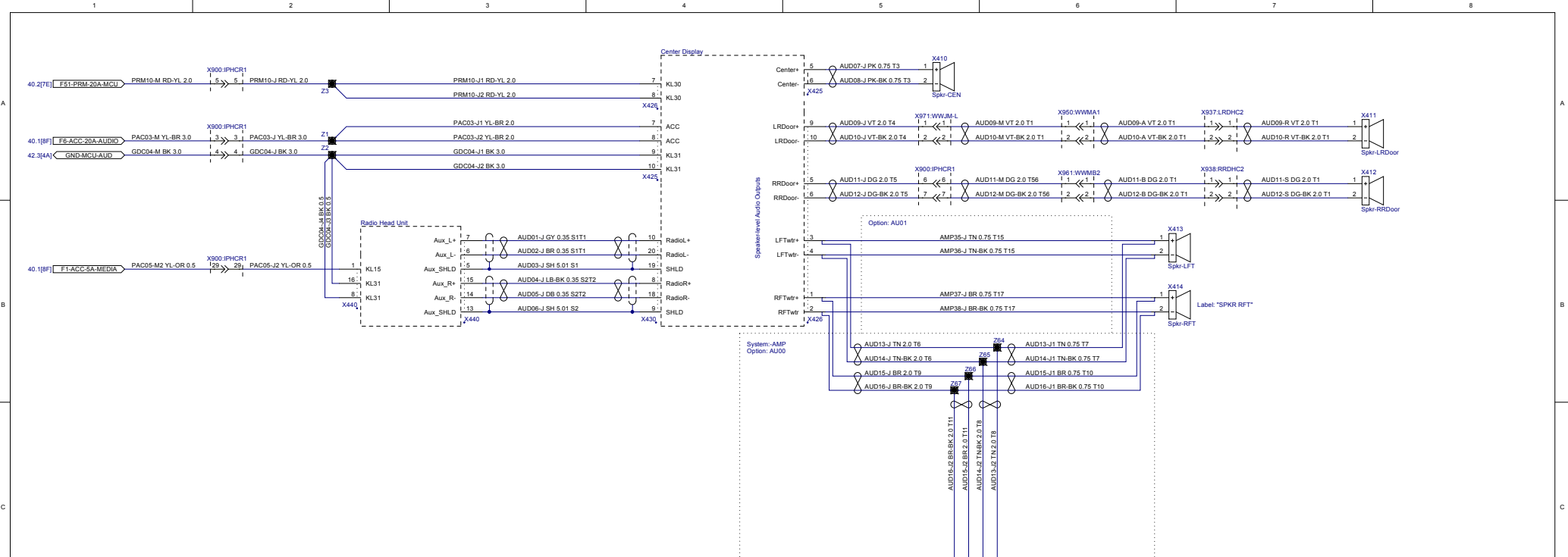
- General Notes:**
- Switches (Relays) are shown in their inactive (de-energized) state.
 - Splices may be split across pages for visual clarity with respect to the function displayed on the particular page.
 - Some connectors are split across multiple pages for clarity. There is no overall reference in this document for the signals routed to a specific connector.
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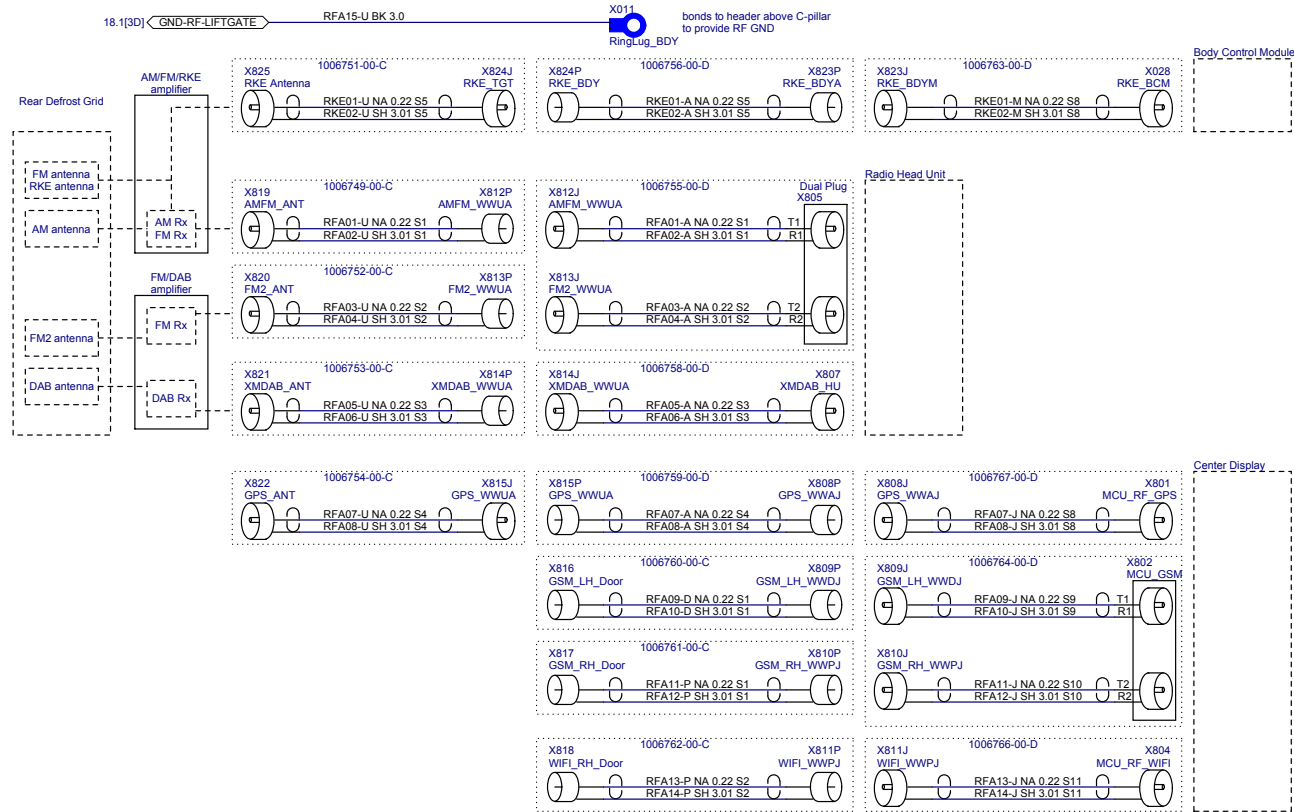
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PROJECT NAME: 2013 Model S Wiring: LHD		PHASE: SOP	
SHEET NAME: Table of Contents			
FORM NO: 1004573-00-E	REVISION: 12	DATE: 5/13/2014	
DO NOT SCALE DRAWING		SHEET 1.1	

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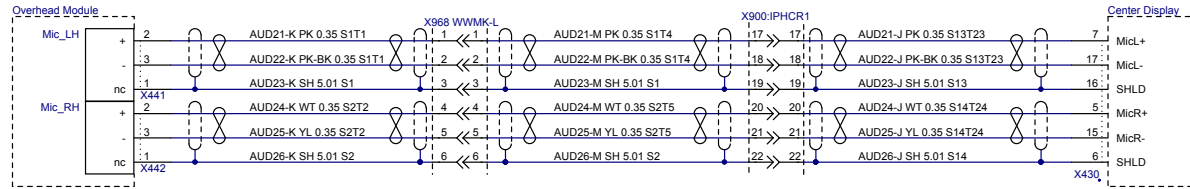




PROJECT NAME: 2013 Model S Wiring: LHD		PHASE: SOP
SHEET NAME: Antenna Connections		
ITEM NO. 1004573-00-E	REVISION: 12	DATE: 5/13/2014
DO NOT SCALE DRAWING		SHEET 5.1

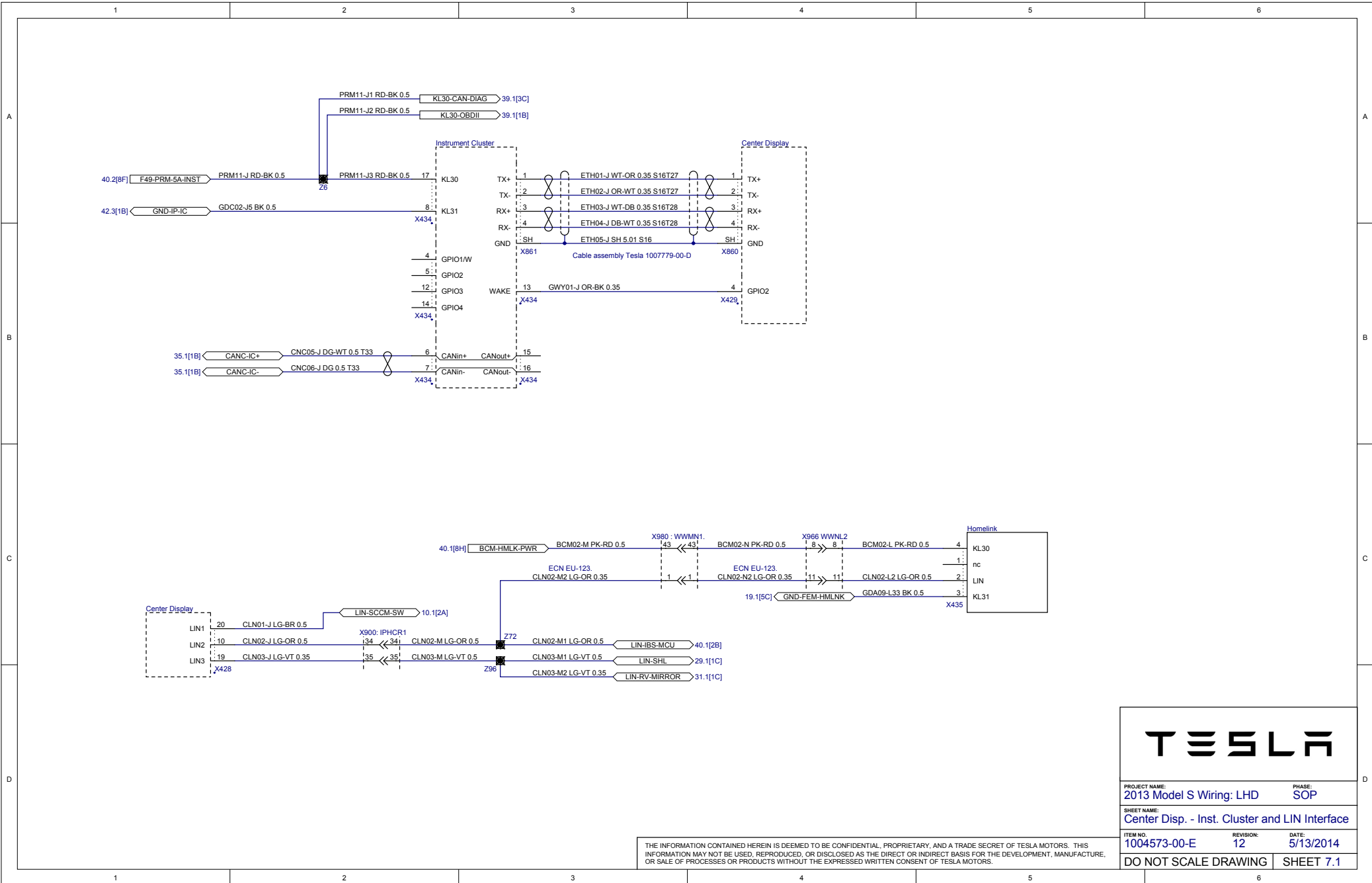
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X430, X441, X442, X968 (1-6), X900 (17-21) UNSEALED shield terminations



PROJECT NAME: 2013 Model S Wiring: LHD		PHASE: SOP
SHEET NAME: Center Display - Microphone and USB		
ITEM NO. 1004573-00-E	REVISION: 12	DATE: 5/13/2014
DO NOT SCALE DRAWING		SHEET 6.1

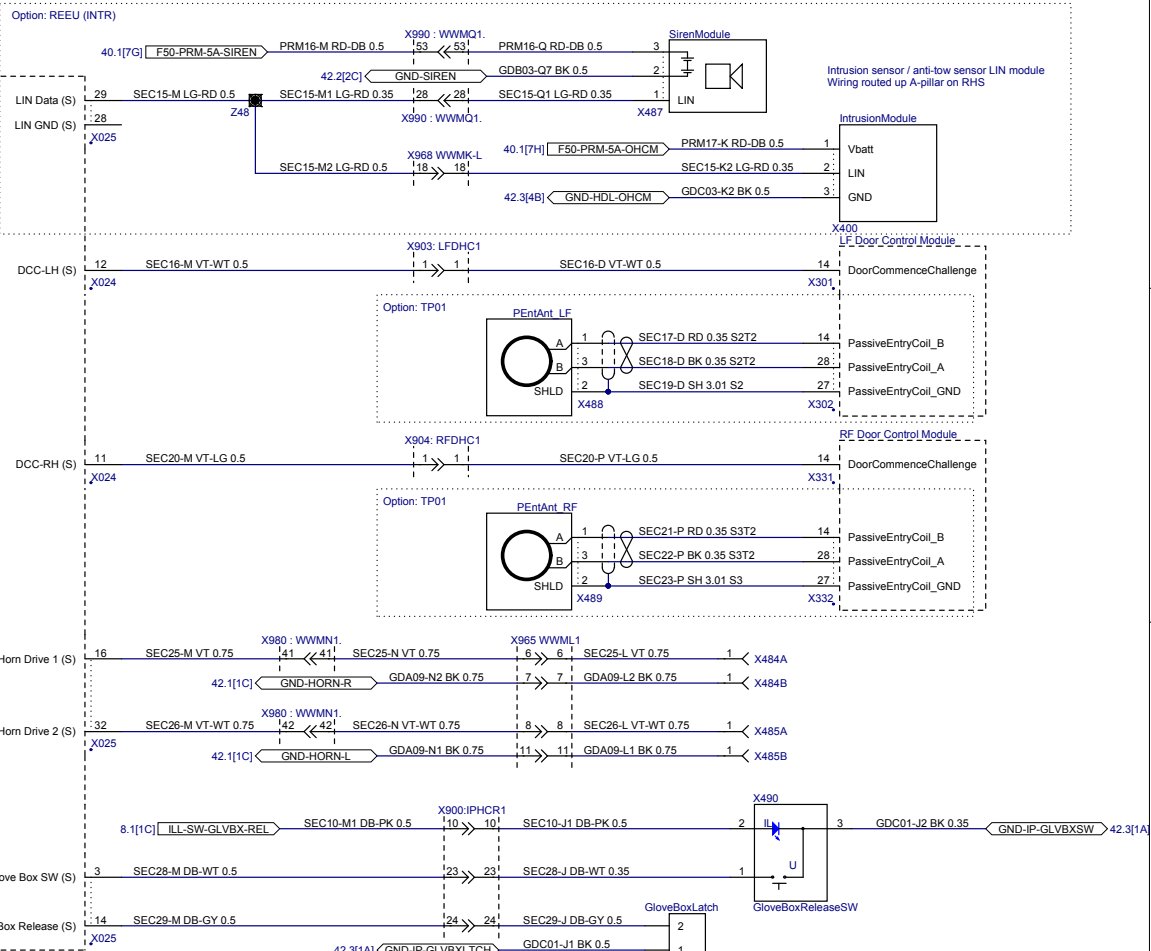
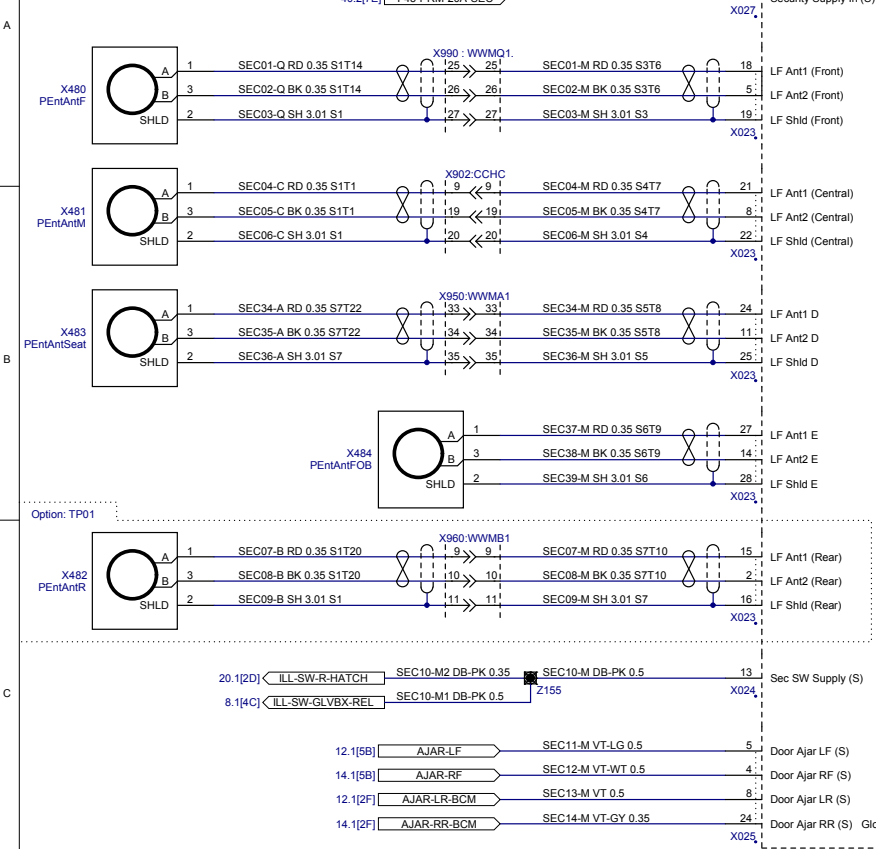
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PROJECT NAME: 2013 Model S Wiring: LHD	PHASE: SOP
SHEET NAME: Center Disp. - Inst. Cluster and LIN Interface	
ITEM NO. 1004573-00-E	REVISION: 12
DATE: 5/13/2014	
DO NOT SCALE DRAWING	SHEET 7.1

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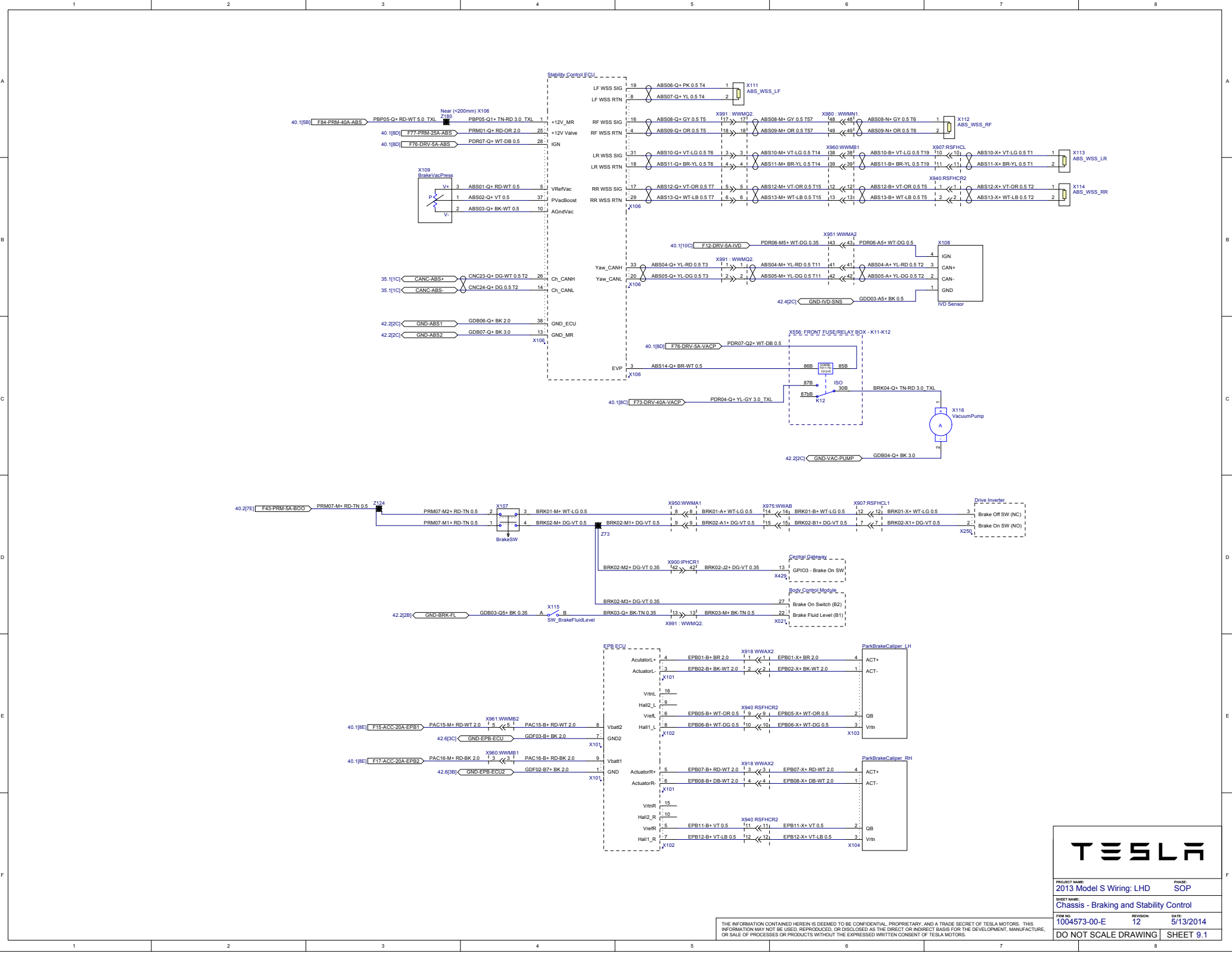
X023, X481, X482, X483, X902, X961 (9-11, 33-35) UNSEALED shield terminations
 X480, X484 SEALED shield terminations
 X302 UNSEALED shield terminations
 X486 SEALED shield terminations
 X332 UNSEALED shield terminations
 X489 SEALED shield terminations





PROJECT NAME: 2013 Model S Wiring: LHD		PHASE: SOP	
SHEET NAME: Security, Horns, Passive Entry			
ITEM NO. 1004573-00-E	REVISION: 12	DATE: 5/13/2014	
DO NOT SCALE DRAWING		SHEET 8.1	

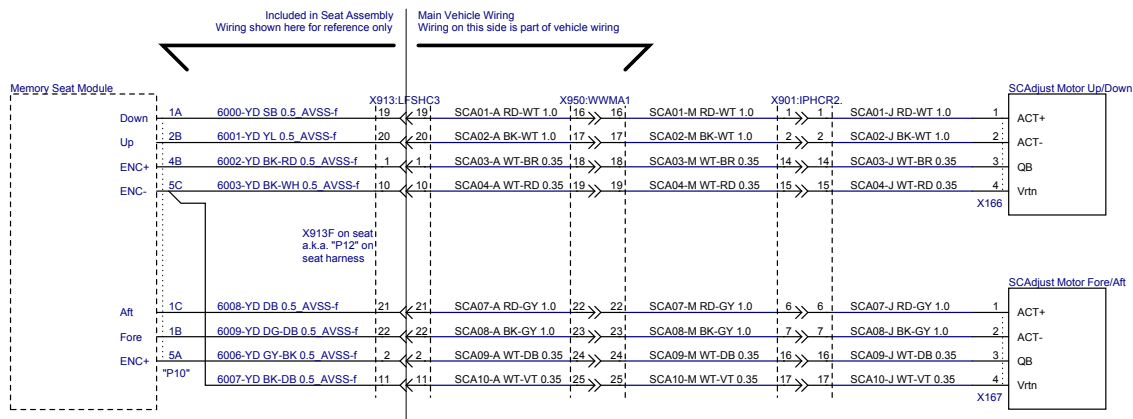
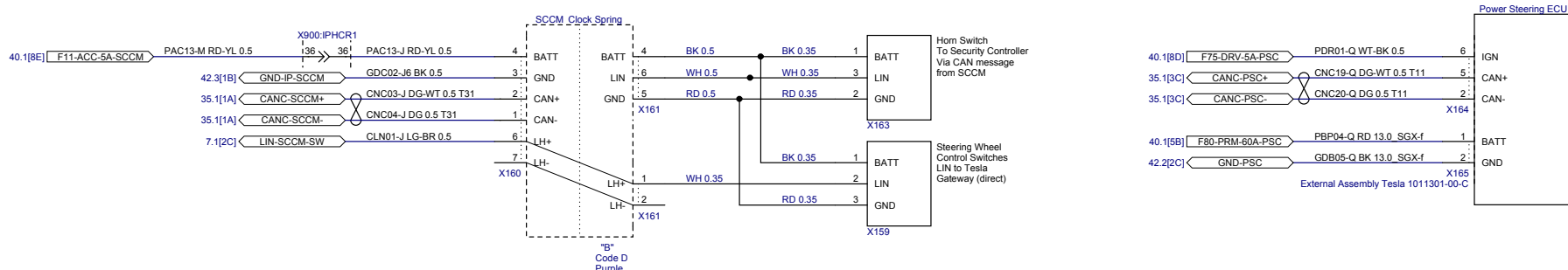
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TESLA

PROJECT NAME: 2013 Model S Wiring: LHD	PHASE: SOP
SHEET NAME: Chassis - Braking and Stability Control	
ITEM NO: 1004573-00-E	REVISION: 12
	DATE: 5/13/2014
DO NOT SCALE DRAWING	SHEET 9.1

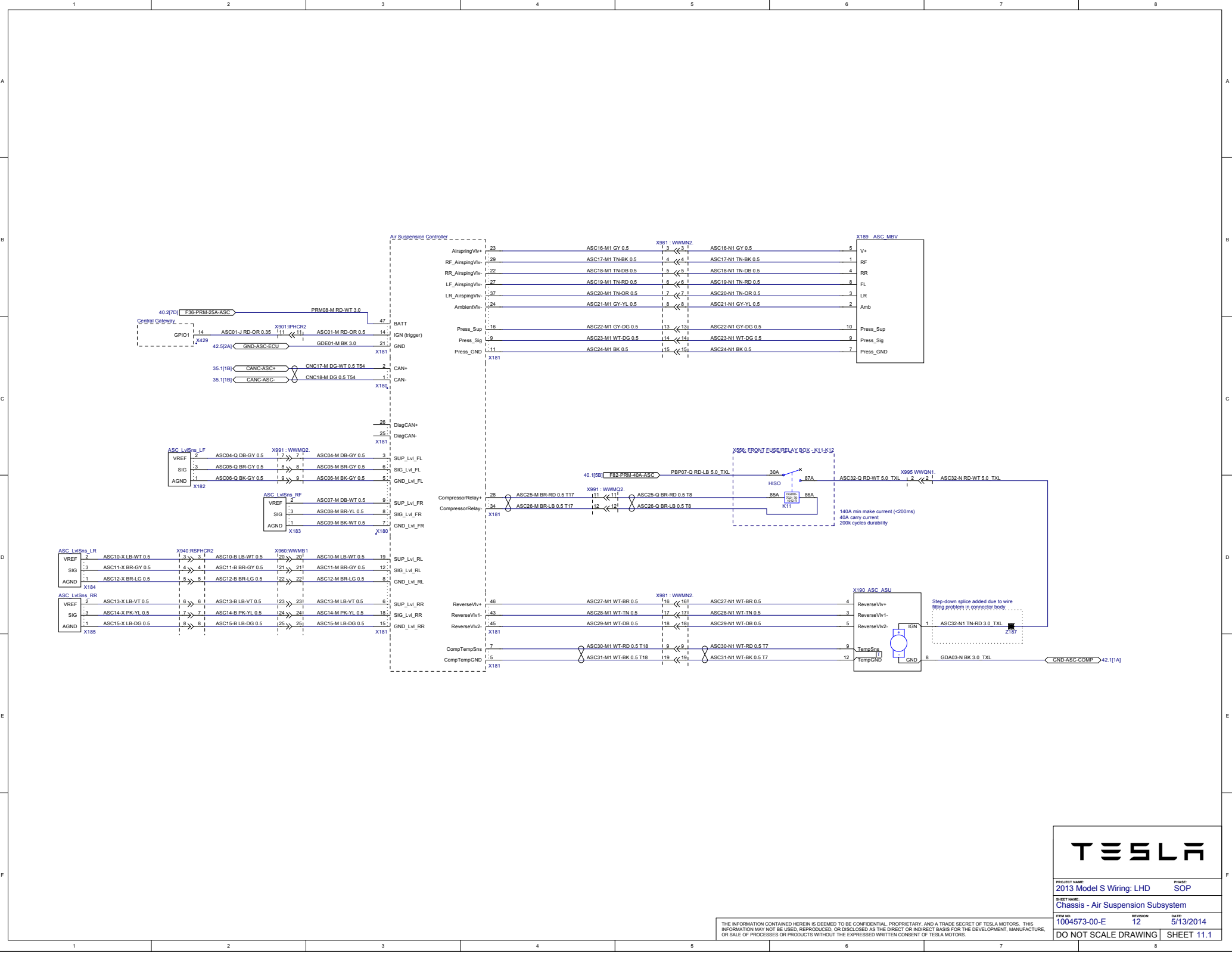
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TESLA

PROJECT NAME: 2013 Model S Wiring: LHD	PHASE: SOP
SHEET NAME: Steering Wheel Controls / Power Steering	
ITEM NO. 1004573-00-E	REVISION: 12
DATE: 5/13/2014	
DO NOT SCALE DRAWING	SHEET 10.1

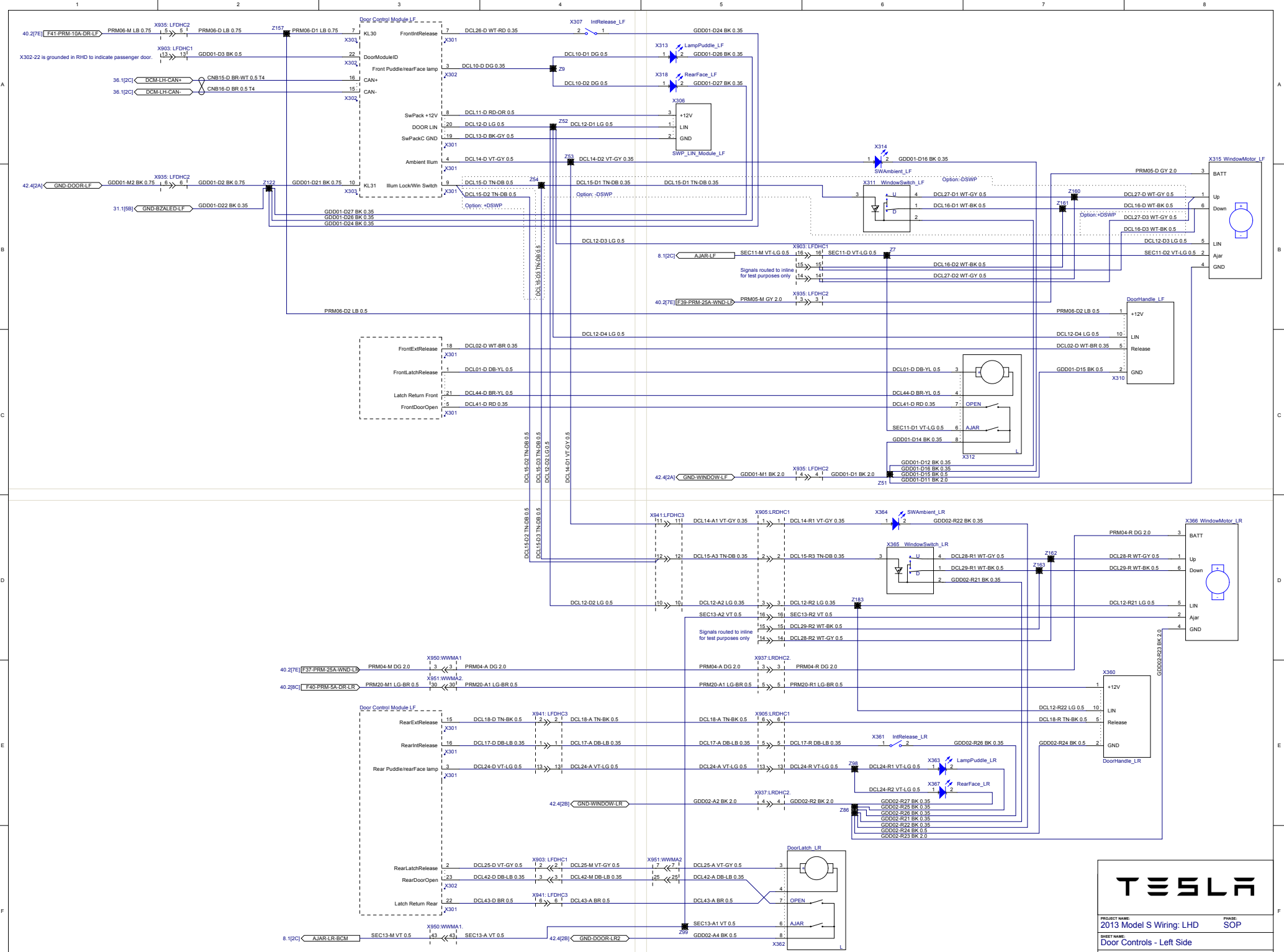
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TESLA

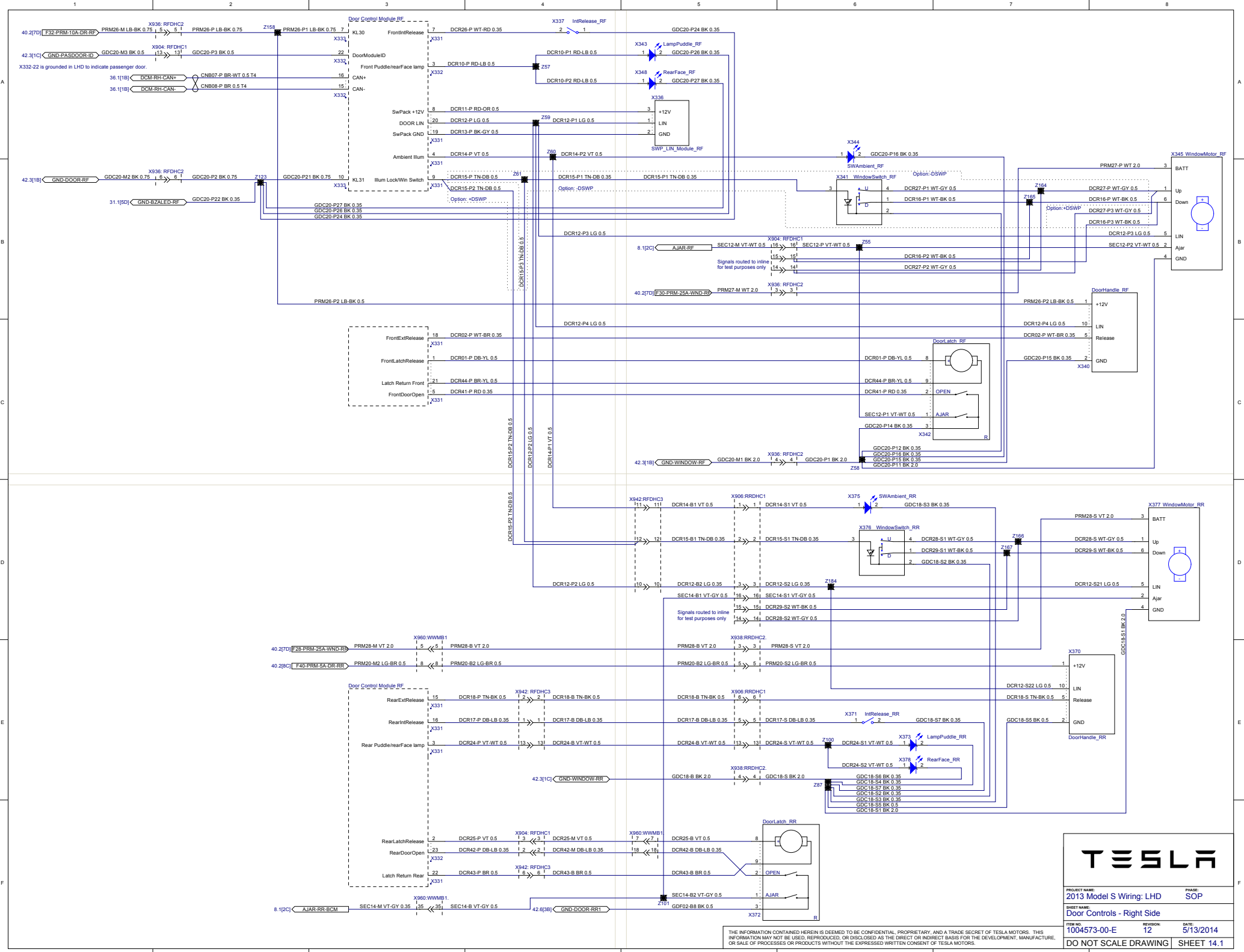
PROJECT NAME: 2013 Model S Wiring: LHD		PHASE: SOP
SHEET NAME: Chassis - Air Suspension Subsystem		REVISION: 12
FILE NO: 1004573-00-E	DATE: 5/13/2014	
DO NOT SCALE DRAWING		SHEET 11.1

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PROJECT NAME: 2013 Model S Wiring: LHD		PHASE: SOP
SHEET NAME: Door Controls - Left Side		REVISION: 12
ITEM NO: 1004573-00-E	DATE: 5/13/2014	
DO NOT SCALE DRAWING		SHEET 12.1

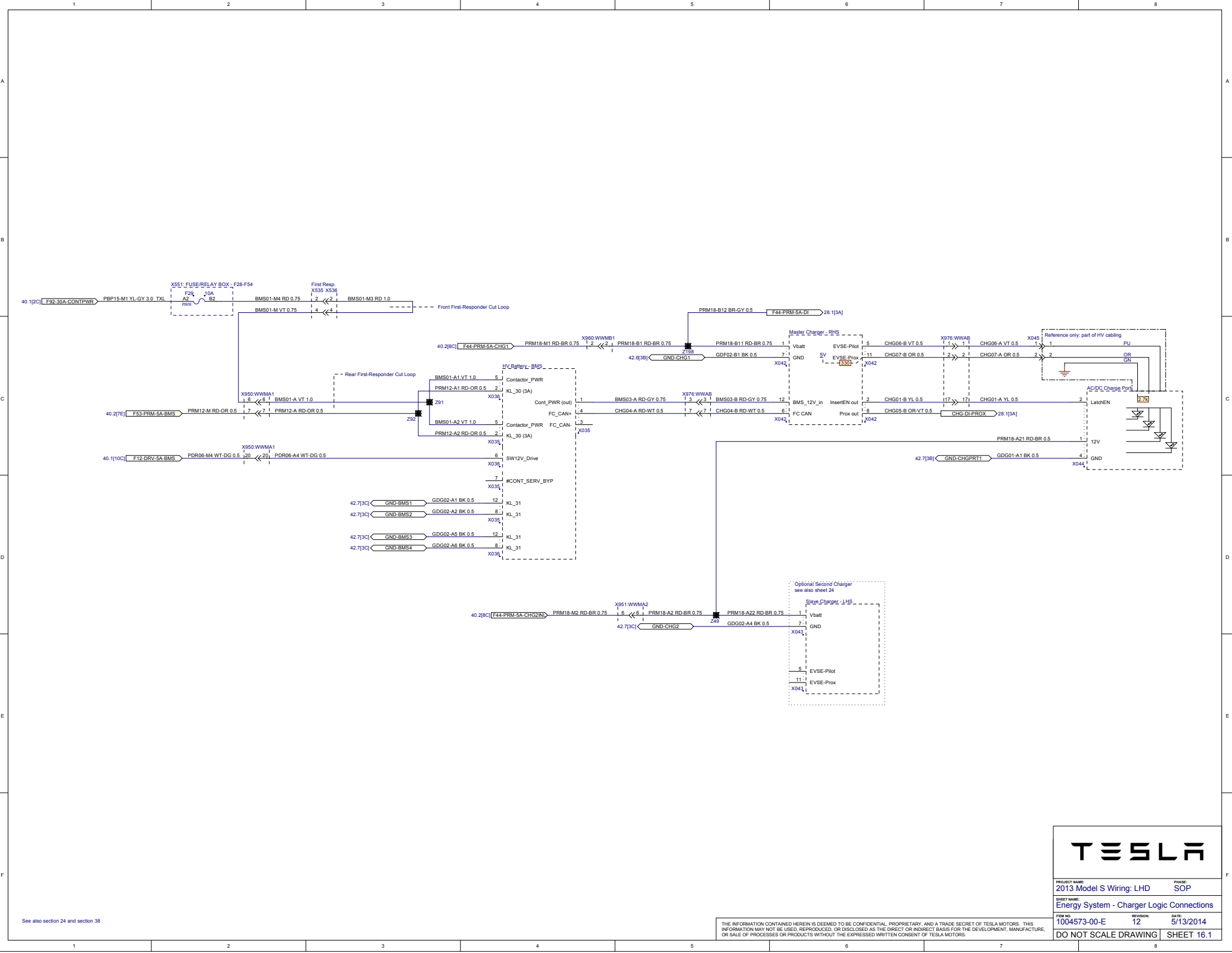
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PROJECT NAME: 2013 Model S Wiring: LHD		PHASE: SOP
SHEET NAME: Door Controls - Right Side		REVISION: 12
ITEM NO: 1004573-00-E	DATE: 5/13/2014	
DO NOT SCALE DRAWING		SHEET 14.1

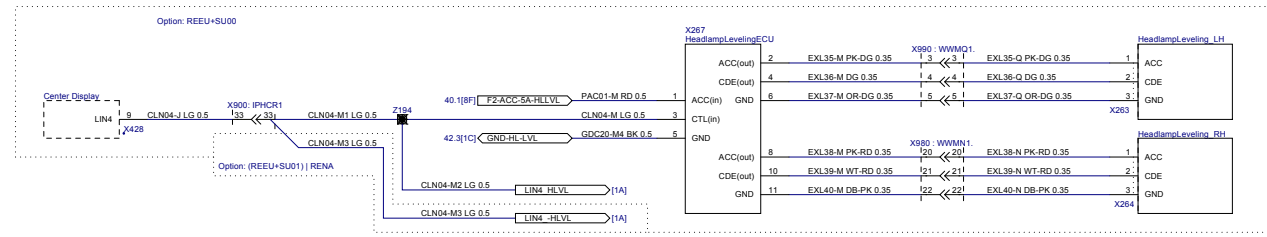
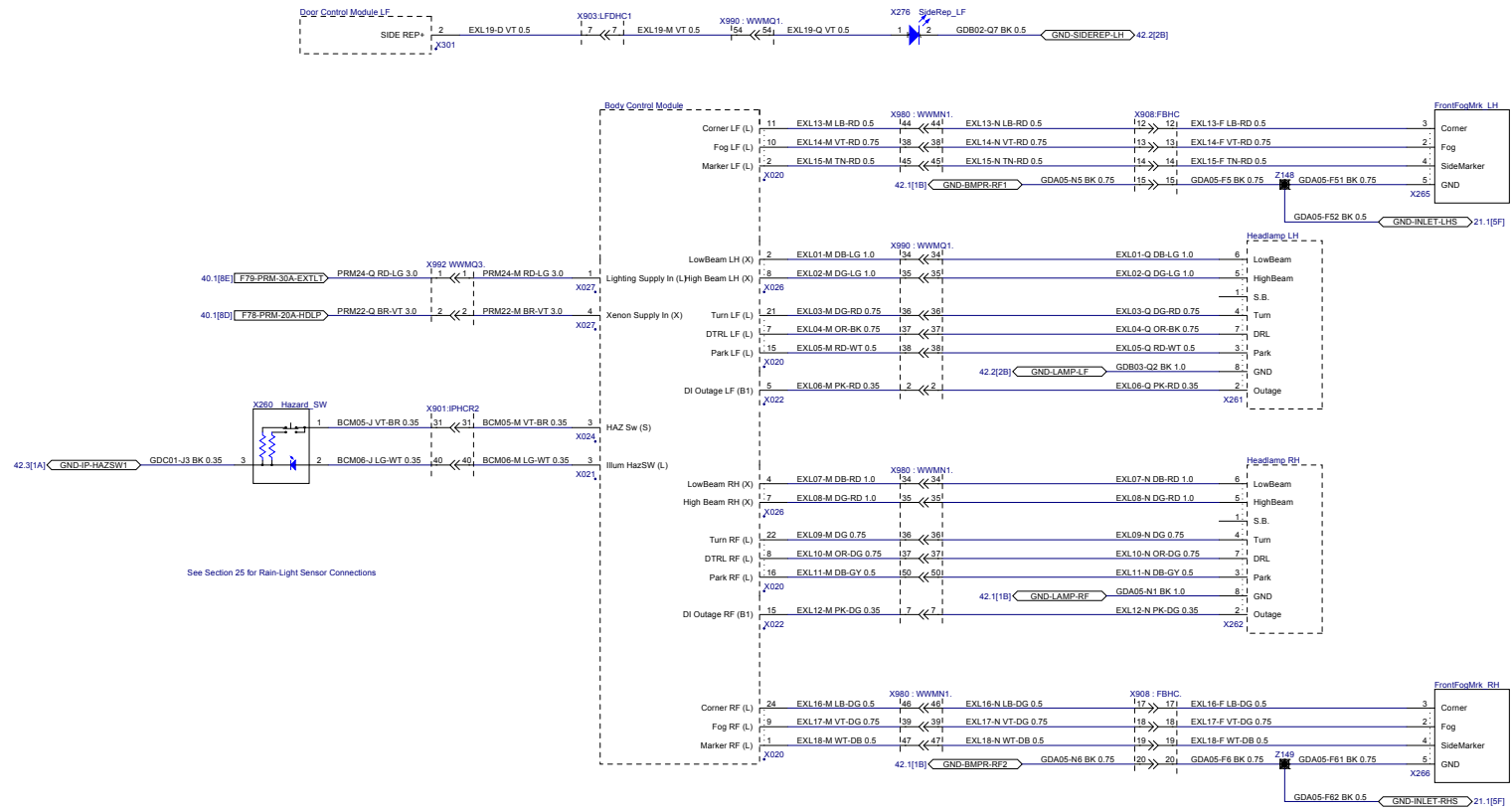
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See also section 24 and section 38

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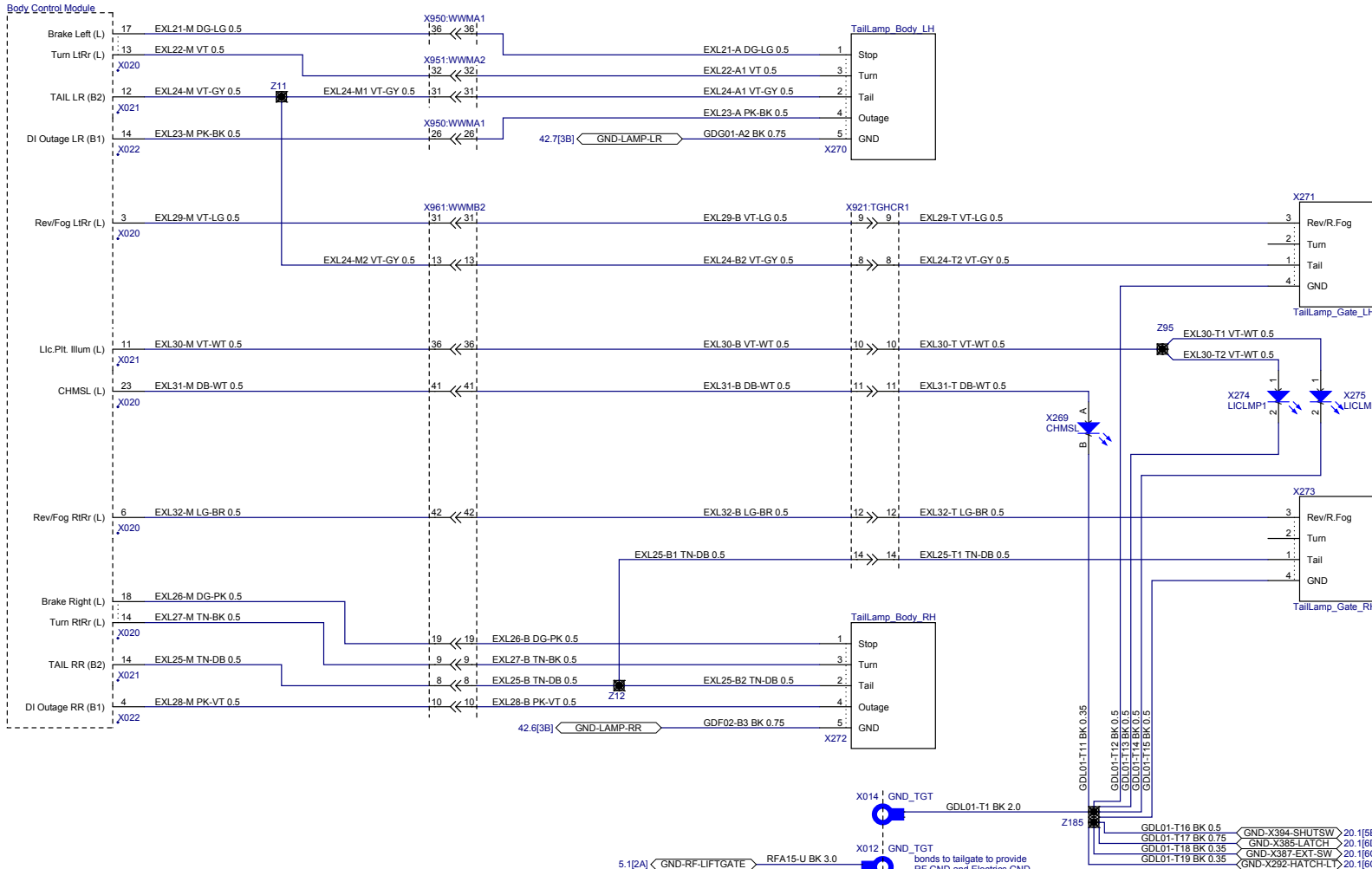
<h1>TESLA</h1>	
PROJECT NAME: 2013 Model S Wiring: LHD	PHASE: SOP
SHEET NAME: Energy System - Charger Logic Connections	REVISION: 12
ITEM NO: 1004573-00-E	DATE: 5/13/2014
DO NOT SCALE DRAWING	SHEET 16.1



TESLA

PROJECT NAME: 2013 Model S Wiring: LHD	PHASE: SOP
SHEET NAME: Exterior Illumination - Front	
FILE NO: 1004573-00-E	REVISION: 12
DATE: 5/13/2014	
DO NOT SCALE DRAWING	SHEET 17.1

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Tailgate Lamp configurations:

US (federal):
Rev/R.Fog element is a reverse lamp on both left and right.

EU, LHD
Rev/R.Fog element is a reverse lamp on right, and fog lamp on left.

EU, RHD
Rev/R.Fog element is a reverse lamp on left, and fog lamp on right.

Lamp configurations are controlled by lamp assembly.
Body controls software manages the specific electrical behavior on a market basis.

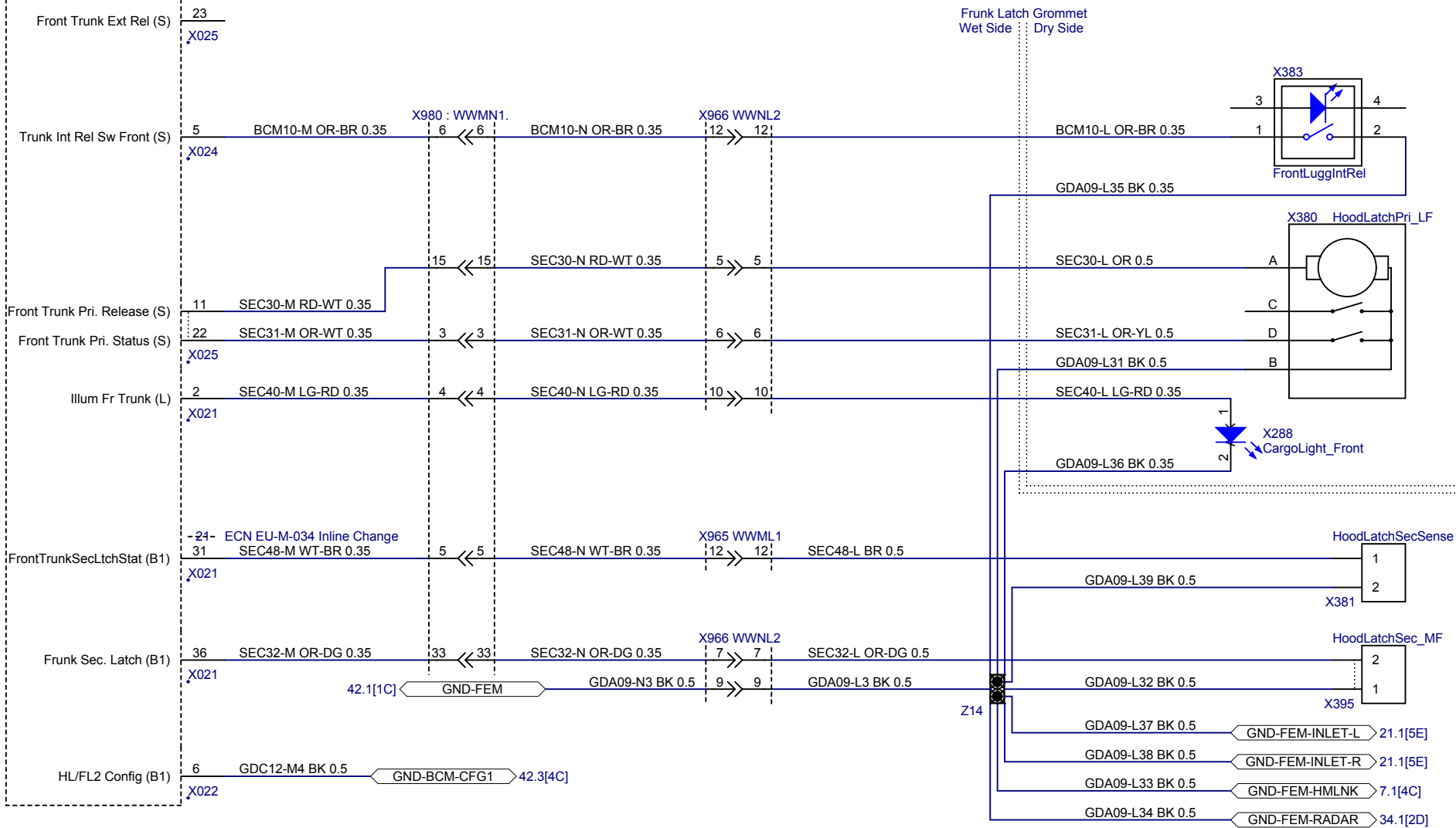


PROJECT NAME: 2013 Model S Wiring: LHD	PHASE: SOP	
SHEET NAME: Exterior Illumination - Rear		
ITEM NO. 1004573-00-E	REVISION: 12	DATE: 5/13/2014
DO NOT SCALE DRAWING		SHEET 18.1

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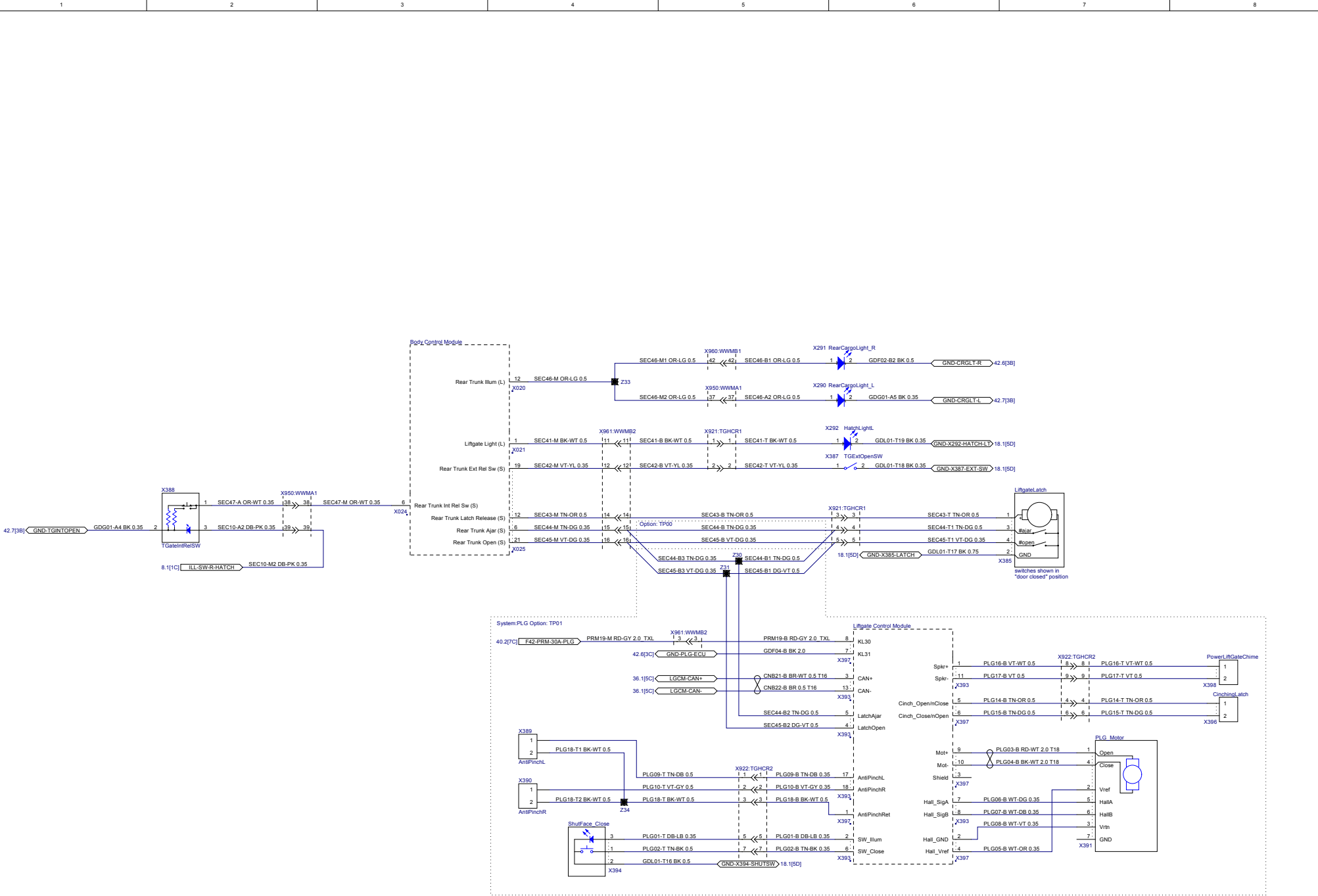
X014, X012 stack on grounding point at center of liftgate inner panel

Body Control Module



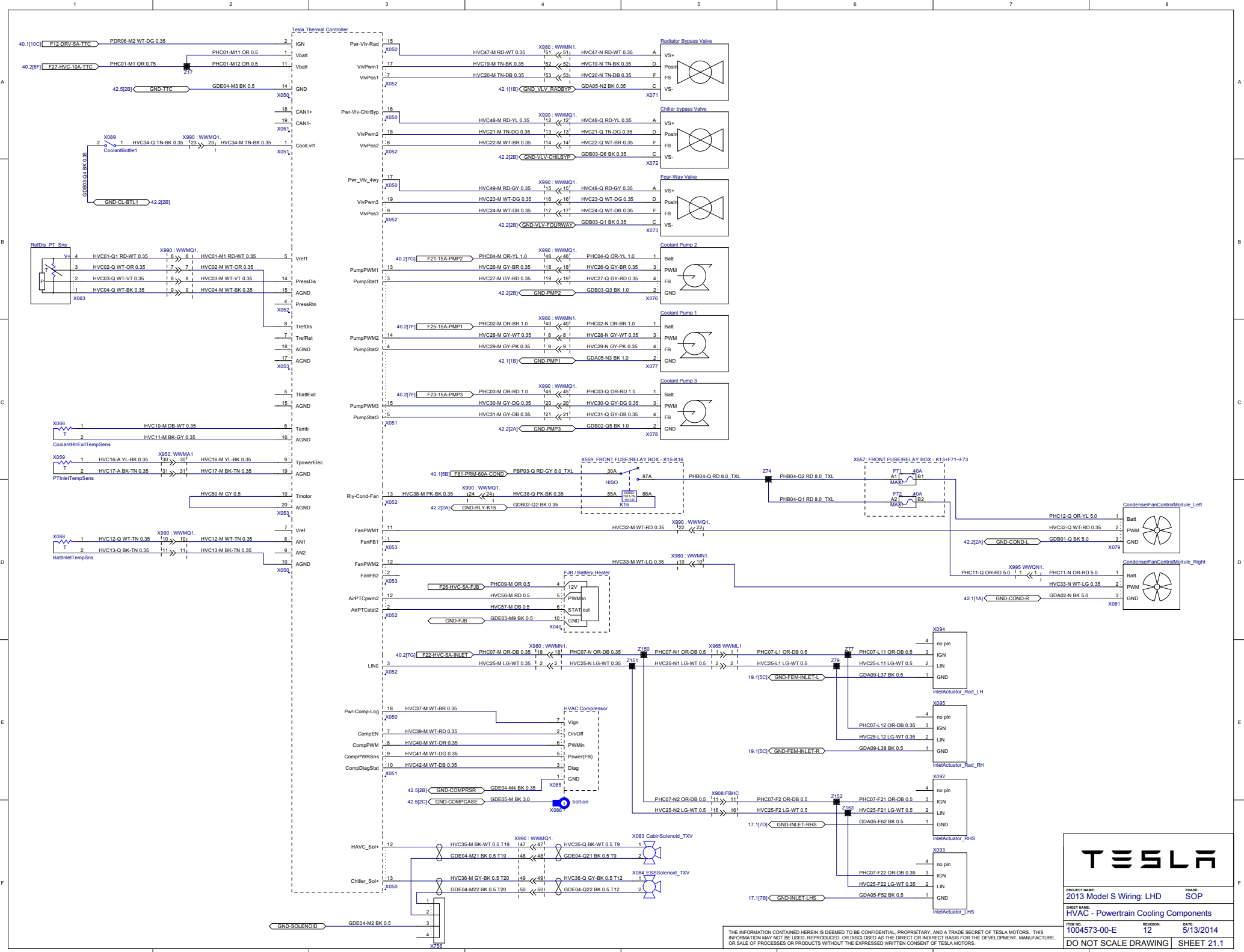
PROJECT NAME: 2013 Model S Wiring: LHD		PHASE: SOP
SHEET NAME: Front Hatch Actuator/Sensors		
ITEM NO. 1004573-00-E	REVISION: 12	DATE: 5/13/2014
DO NOT SCALE		SHEET 19.1


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PROJECT NAME: 2013 Model S Wiring: LHD		PHASE: SOP
SUBJECT NAME: Rear Hatch Acuator/Sensors + Liftgate Opt.		
PTR NO: 1004573-00-E	REVISION: 12	DATE: 5/13/2014
DO NOT SCALE DRAWING		SHEET 20.1

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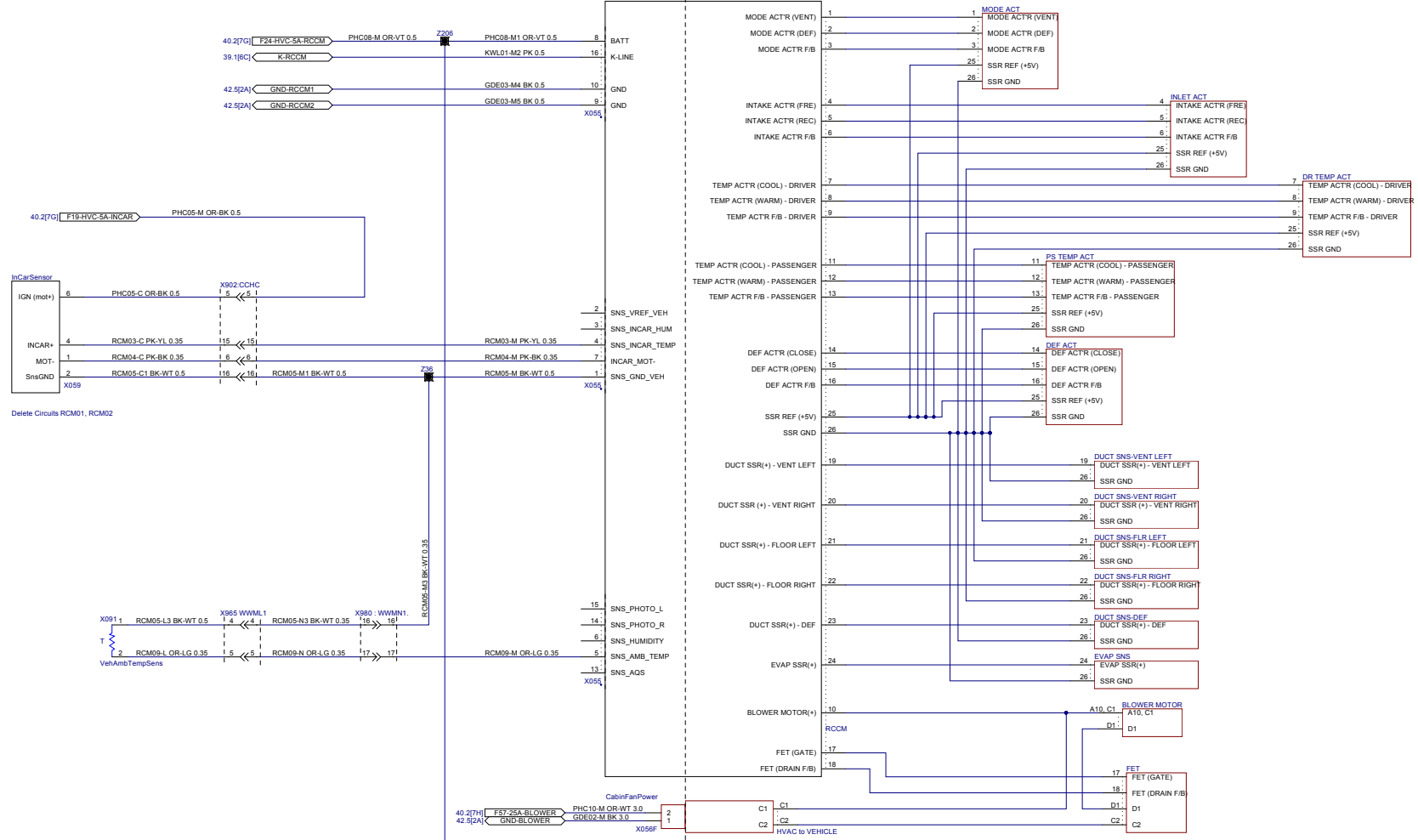


PROJECT NAME: 2013 Model S Wiring: LHD		PHASE: SOP
SHEET NAME: HVAC - Powertrain Cooling Components		REVISION: 12
FILE NO: 1004573-00-E	DATE: 5/13/2014	DATE: 5/13/2014
DO NOT SCALE DRAWING		SHEET 21.1

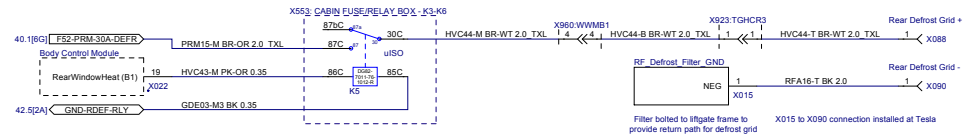
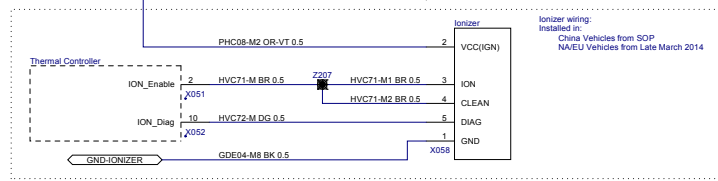
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VEHICLE WIRING HVAC CASE INTERNAL WIRING

RCCM Remote Climate Control Module



VEHICLE WIRING HVAC CASE INTERNAL WIRING



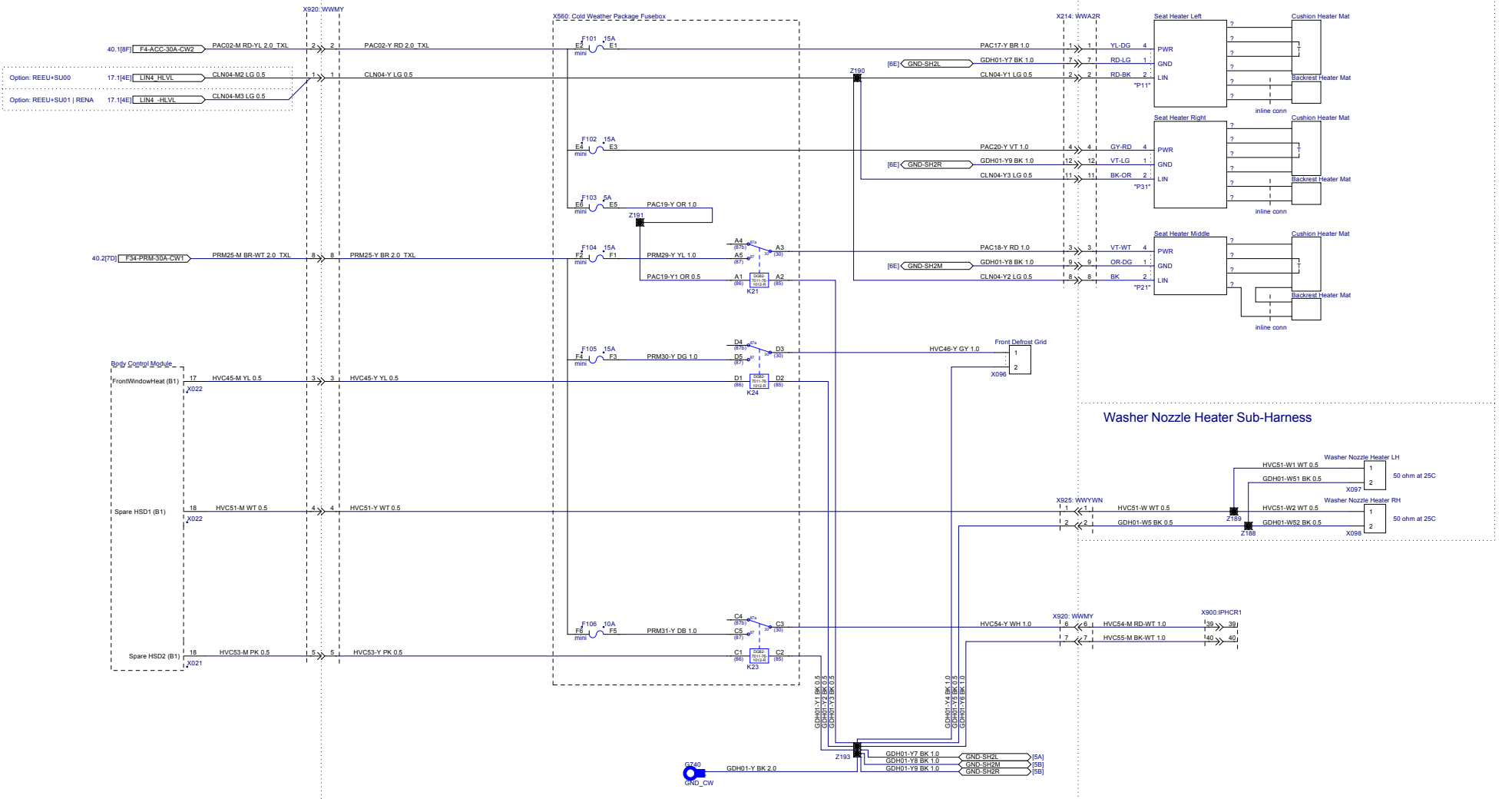
PROJECT NAME: 2013 Model S Wiring: LHD	PHASE: SOP
SHEET NAME: HVAC - Cabin Climate Controls, Rear Defrost	
DRAWING NO: 1004573-00-E	REVISION: 12
	DATE: 5/13/2014
DO NOT SCALE DRAWING	SHEET 22.3

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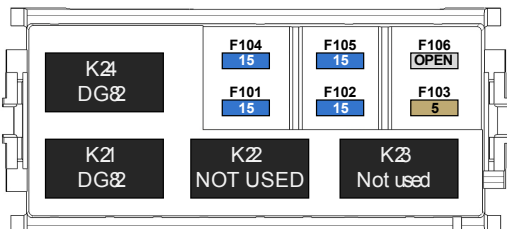
Cold-Weather Overlay Harness

Second Row Seat Sub-Harness

(responsibility of seat supplier, wiring shown for reference only)



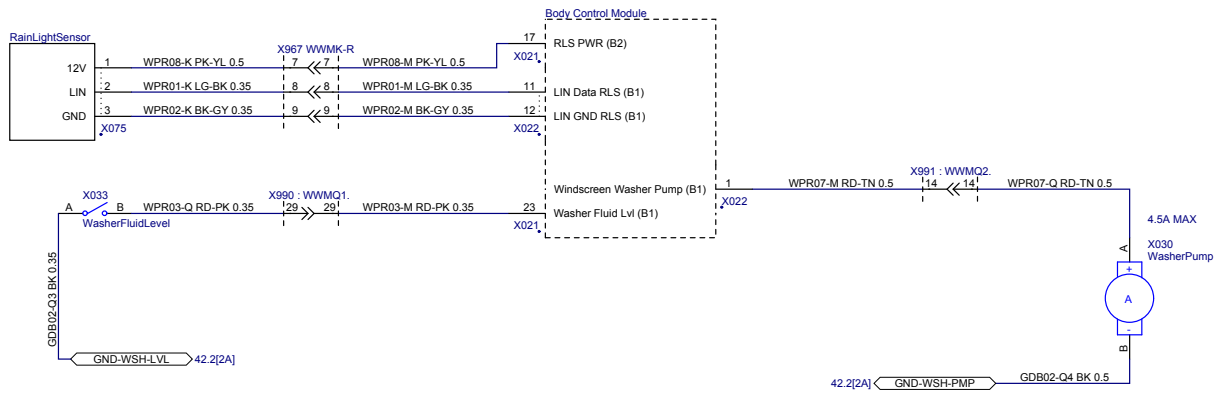
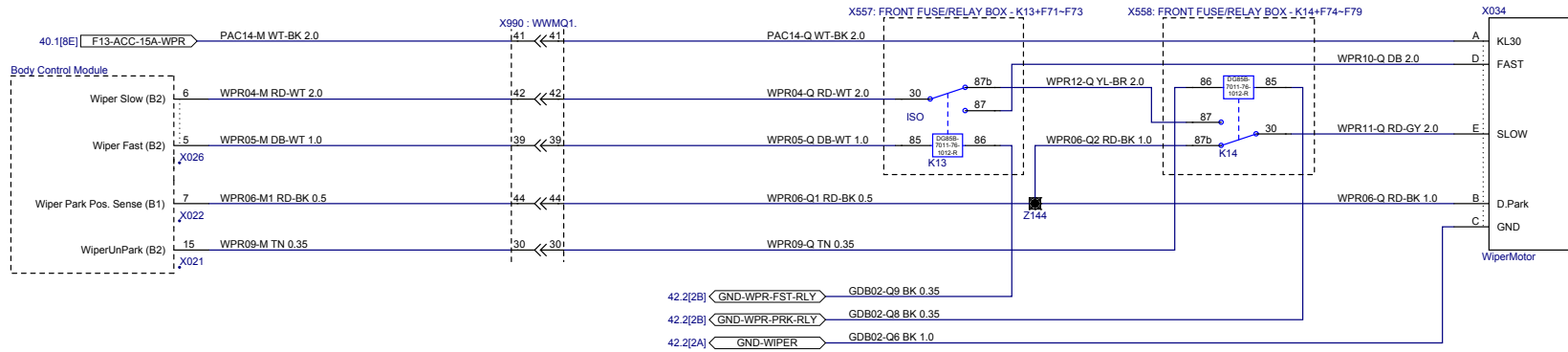
Fusebox located on driver's side of lower center stack.



TESLA

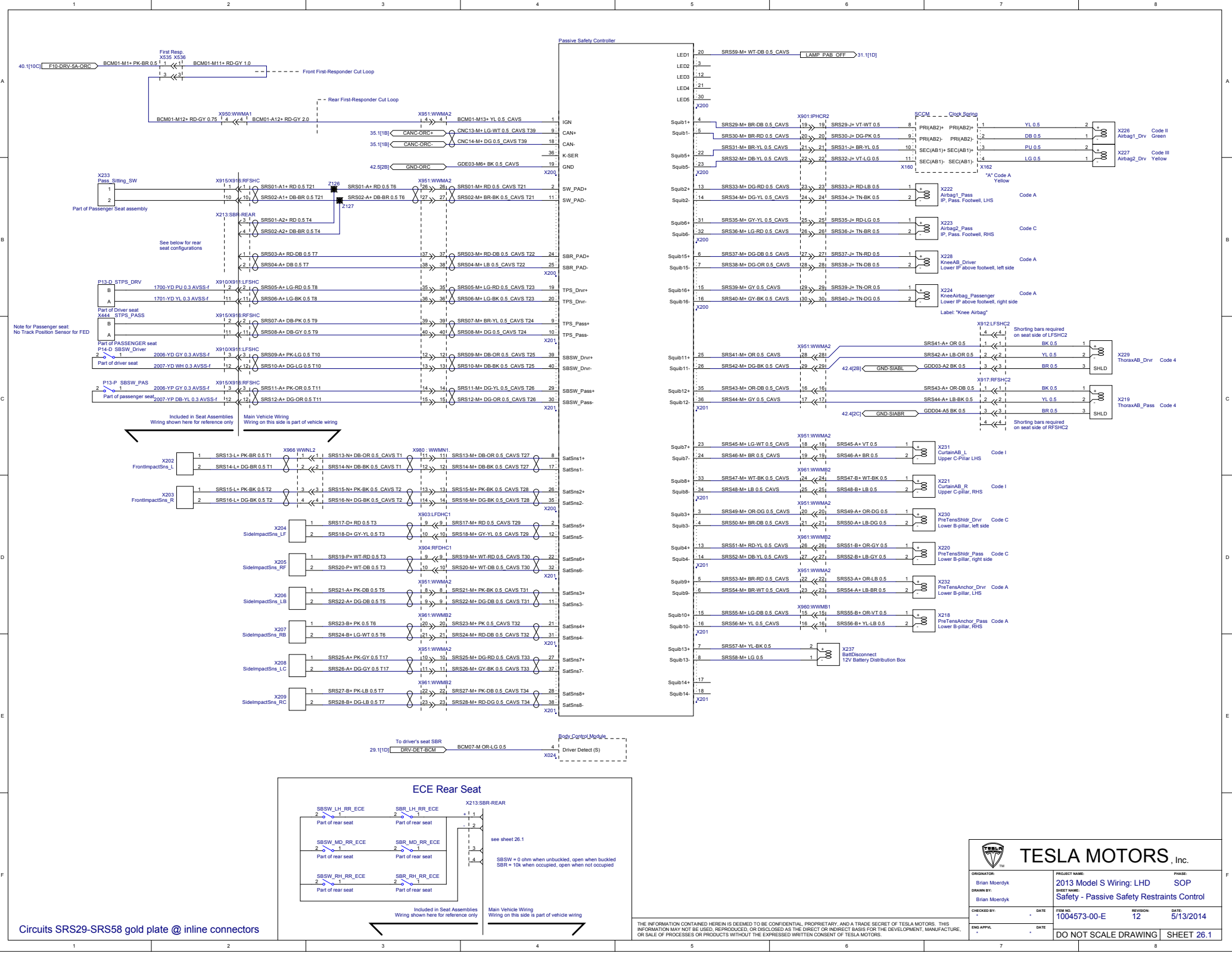
PROJECT NAME: 2013 Model S Wiring: LHD PHASE: SOP
 SHEET NAME: Cold Weather Package Content
 ITEM NO: 1004573-00-E REVISION: 12 DATE: 5/13/2014
 DO NOT SCALE DRAWING SHEET 23.1

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

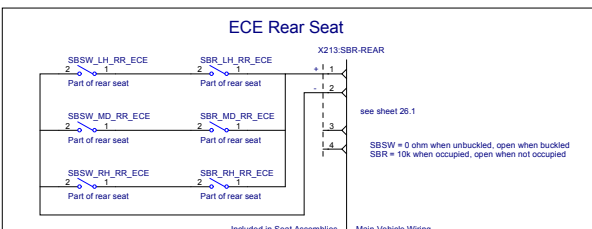


PROJECT NAME: 2013 Model S Wiring: LHD		PHASE: SOP
SHEET NAME: Windscreen Wiper/Washer, Rain Sensor		
ITEM NO. 1004573-00-E	REVISION: 12	DATE: 5/13/2014
DO NOT SCALE DRAWING		SHEET 25.1

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Circuits SRS29-SRS58 gold plate @ inline connectors



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ORIGINATOR: Brian Moerdyk DRAWN BY: Brian Moerdyk CHECKED BY: ENG APPL:	PRODUCT NAME: 2013 Model S Wiring: LHD SHEET NAME: Safety - Passive Safety Restraints Control ITEM NO: 1004573-00-E DATE: 5/13/2014	PHASE: SOP REVISION: 12 DATE: 5/13/2014
DO NOT SCALE DRAWING		



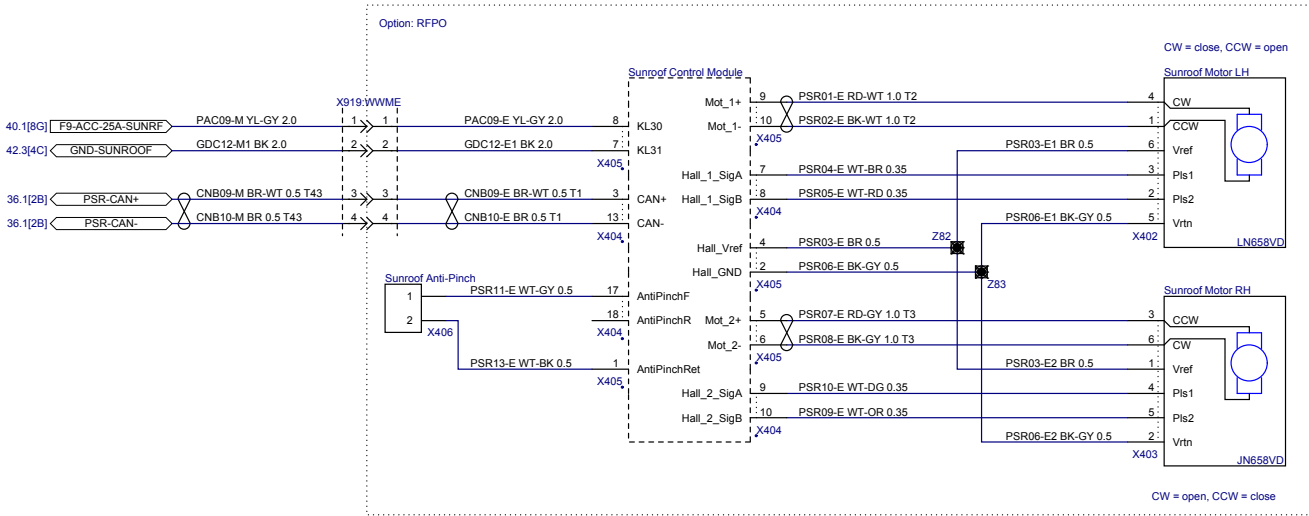
PROJECT NAME: 2013 Model S Wiring: LHD PHASE: SOP

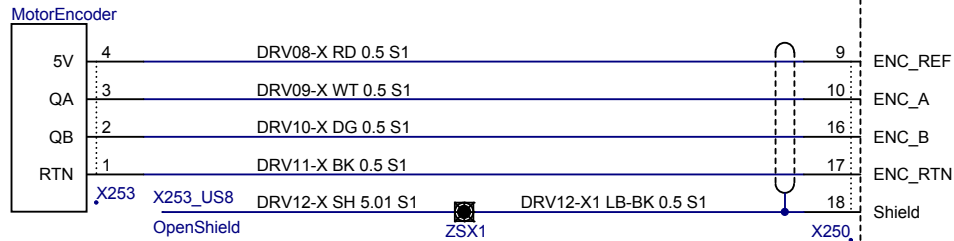
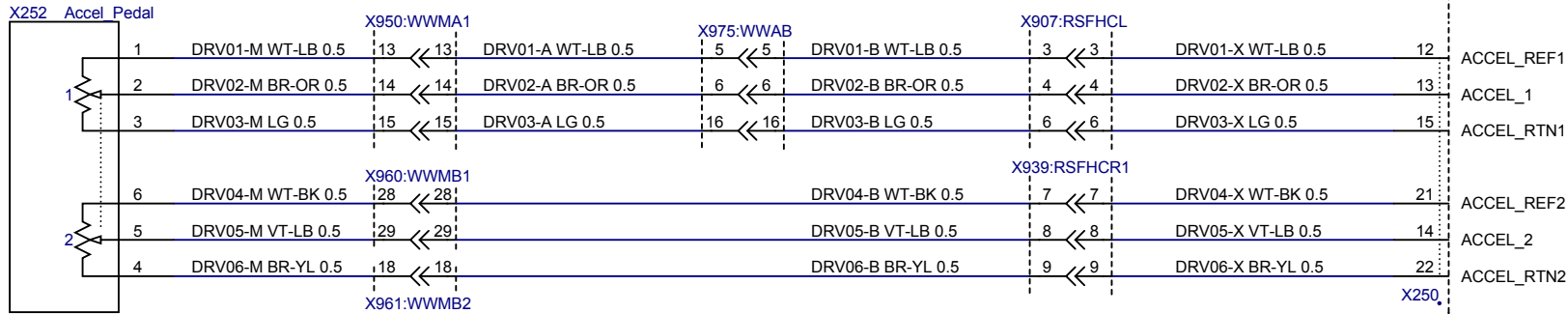
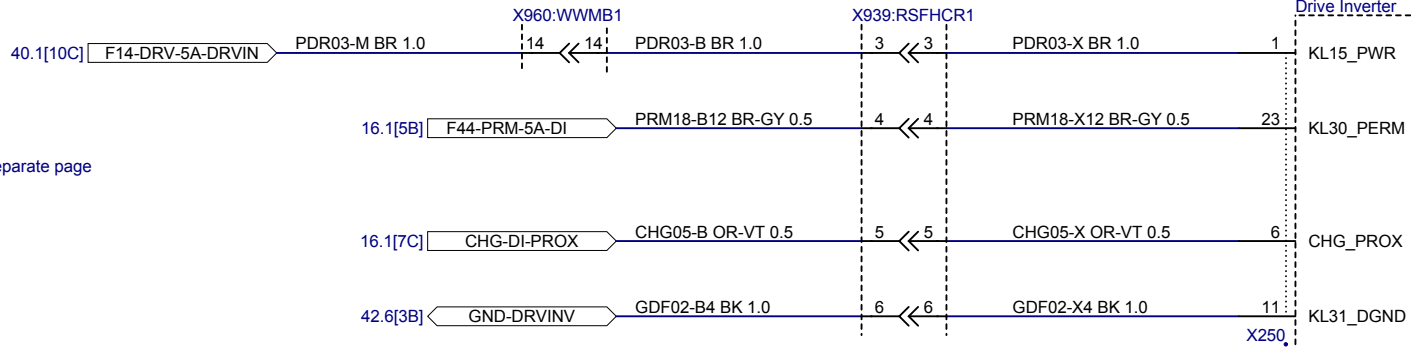
SHEET NAME: Panoramic Sunroof

ITEM NO. 1004573-00-E REVISION: 12 DATE: 5/13/2014

DO NOT SCALE DRAWING SHEET 27.1

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X250, X253 SEALED shield terminations
 SX1: shield termination splice. Drain wire is 22AWG



PROJECT NAME: 2013 Model S Wiring: LHD PHASE: SOP

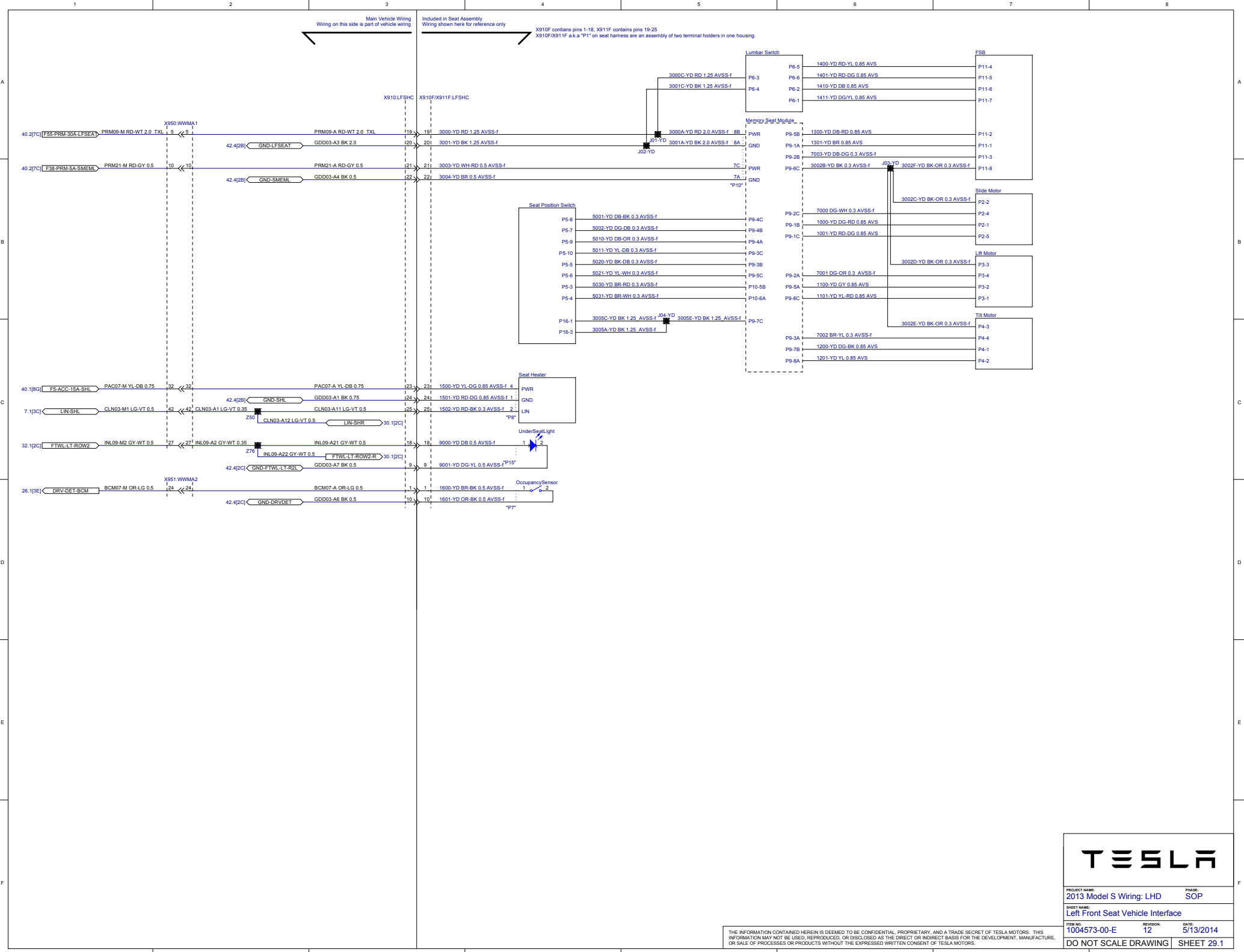
SHEET NAME: Drive Inverter

ITEM NO. 1004573-00-E REVISION: 12 DATE: 5/13/2014

DO NOT SCALE

SHEET 28.1

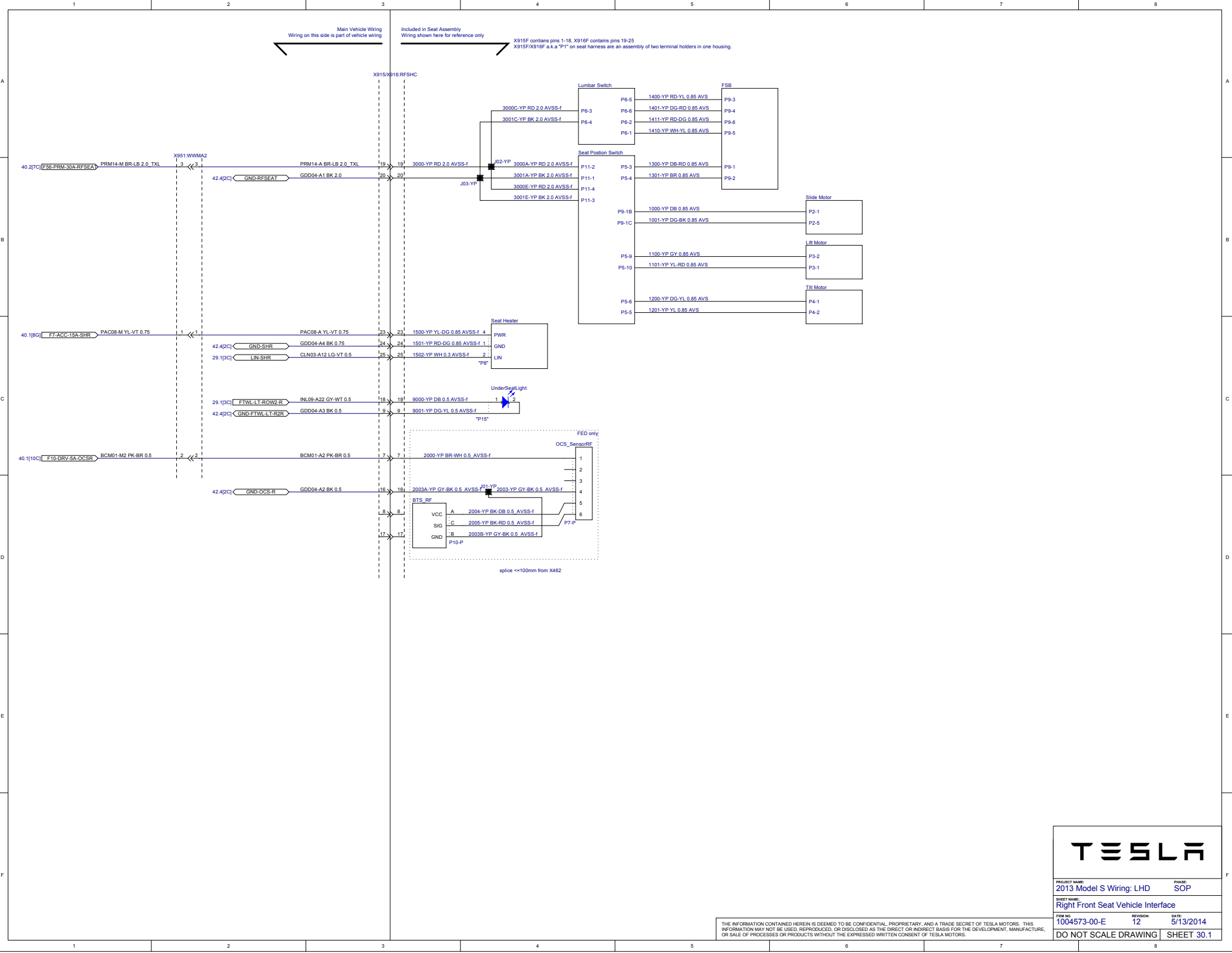
THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.



TESLA

PROJECT NAME: 2013 Model S Wiring: LHD		PHASE: SOP
SHEET NAME: Left Front Seat Vehicle Interface		
ITEM NO: 1004573-00-E	REVISION: 12	DATE: 5/13/2014
DO NOT SCALE DRAWING		SHEET 29.1

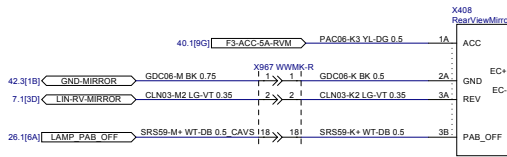
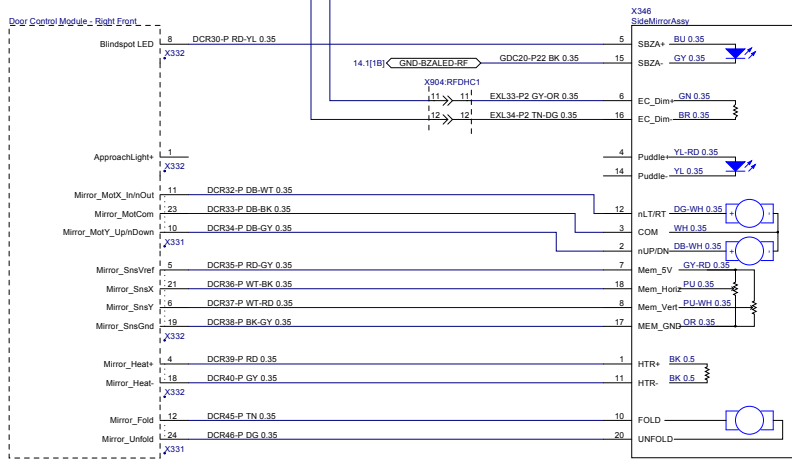
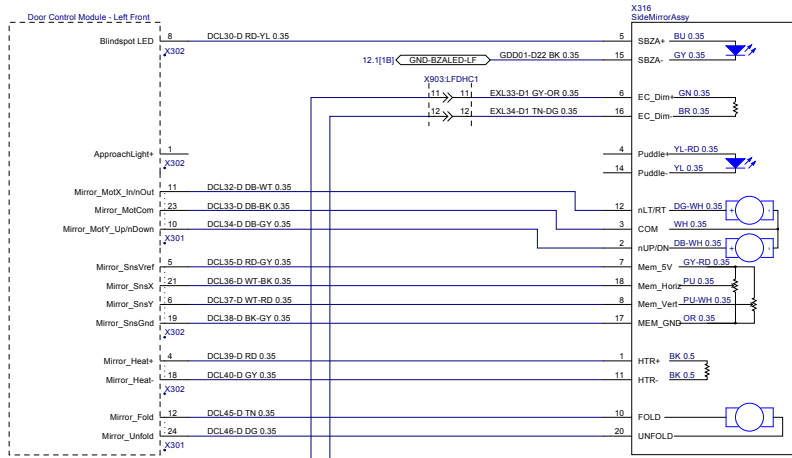
THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.



TESLA

PROJECT NAME: 2013 Model S Wiring: LHD	PHASE: SOP
SHEET NAME: Right Front Seat Vehicle Interface	
ITEM NO: 1004573-00-E	REVISION: 12
DATE: 5/13/2014	
DO NOT SCALE DRAWING	SHEET 30.1

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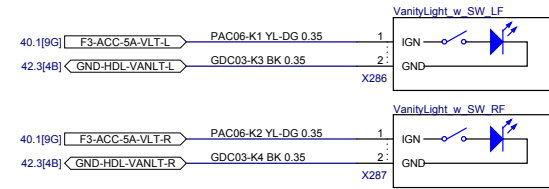
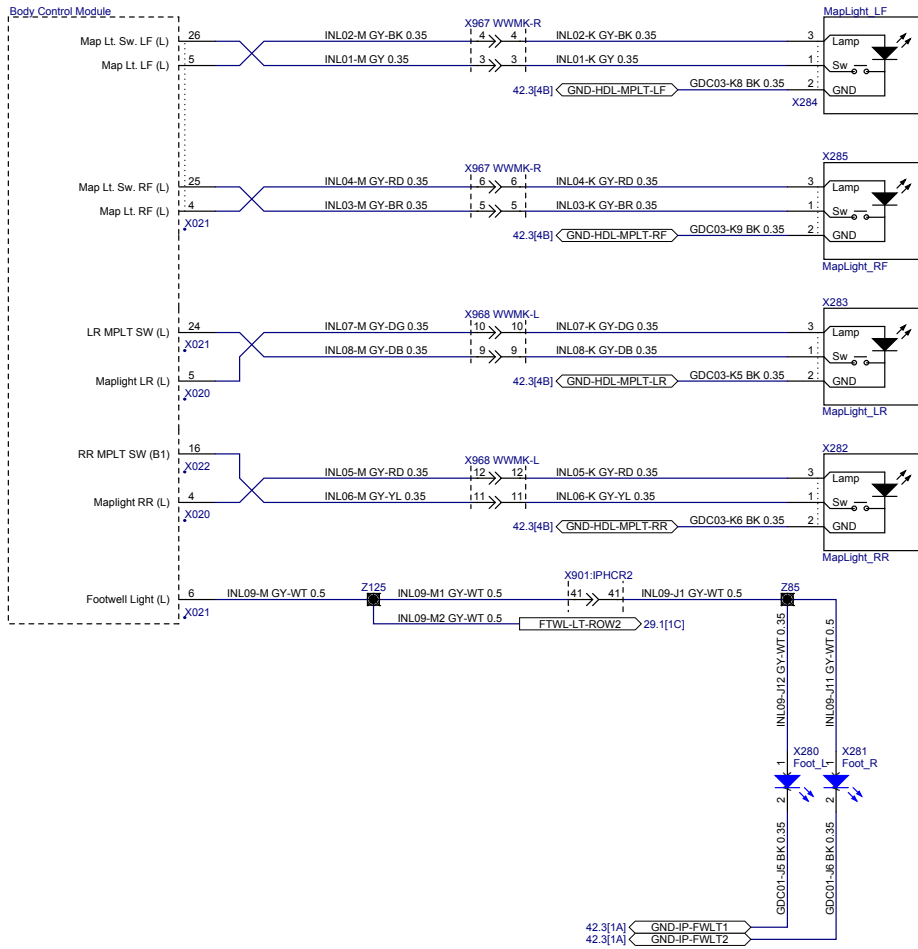


Mirror control commands come to the drive door control module via LIN from the driver-door switchpack module.
Mirror controls for the passenger side mirror are then passed over CAN to the passenger door control module.

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TESLA

PROJECT NAME: 2013 Model S Wiring: LHD		PHASE: SOP
SHEET NAME: Mirrors - Center and Side		
ITEM NO: 1004573-00-E	REVISION: 12	DATE: 5/13/2014
DO NOT SCALE DRAWING		SHEET 31.1

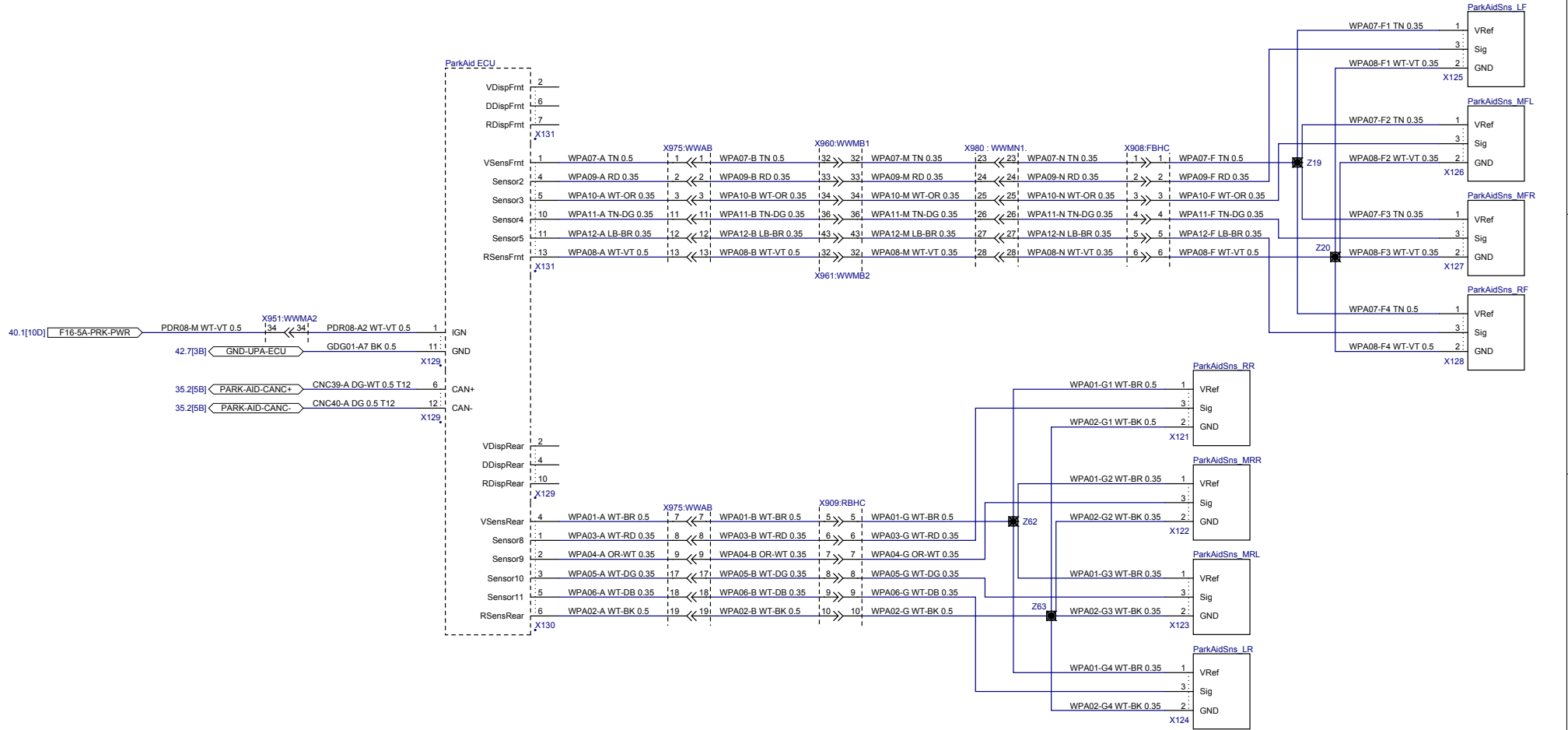


THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

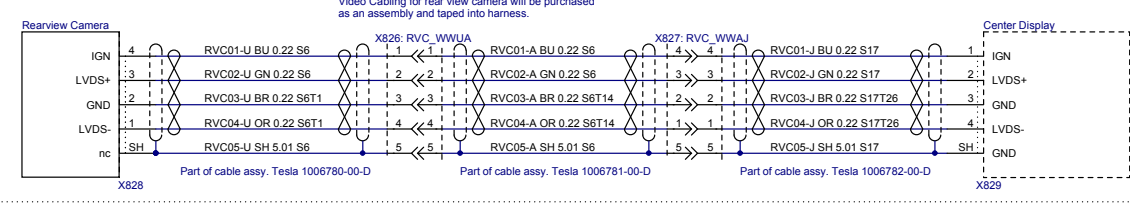
TESLA

PROJECT NAME: 2013 Model S Wiring: LHD	PHASE: SOP	
SHEET NAME: Interior Lighting - Maplights		
ITEM NO. 1004573-00-E	REVISION: 12	DATE: 5/13/2014
DO NOT SCALE DRAWING		SHEET 32.1

Option: AS01



Option: TP01



PROJECT NAME: 2013 Model S Wiring: LHD	PHASE: SOP
SHEET NAME: Parking Aids	
ITEM NO. 1004573-00-E	REVISION: 12
DATE: 5/13/2014	
DO NOT SCALE DRAWING	SHEET 33.1

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

1 2 3 4 5 6

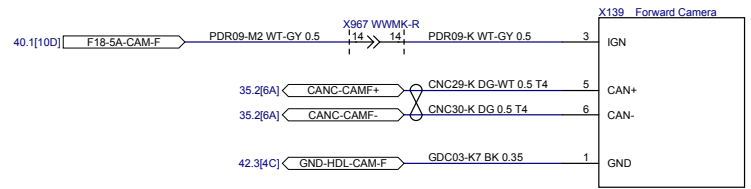
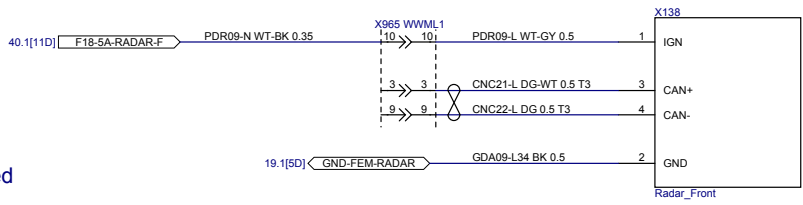
A

B


C

D

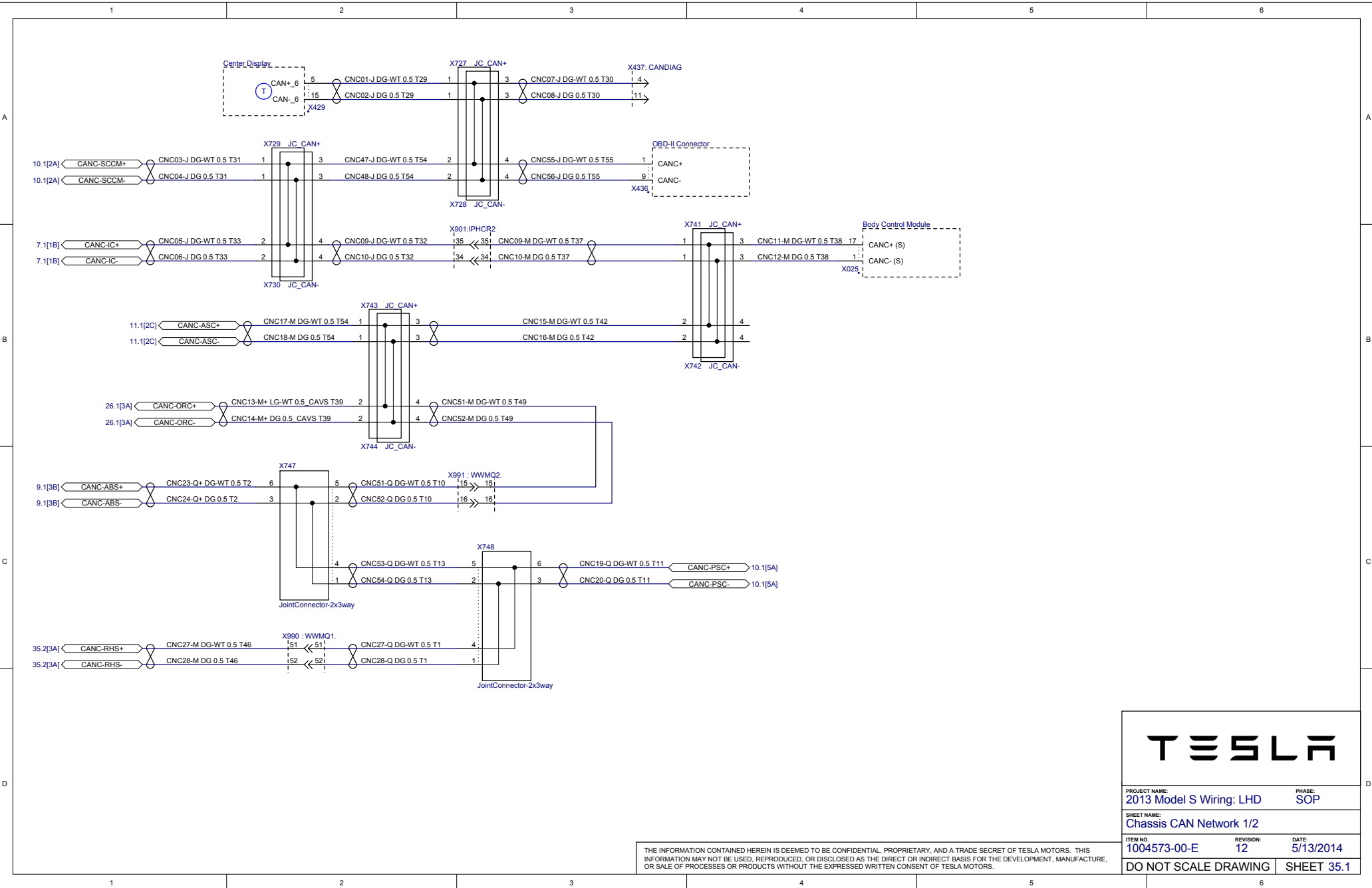
Function not supported



THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

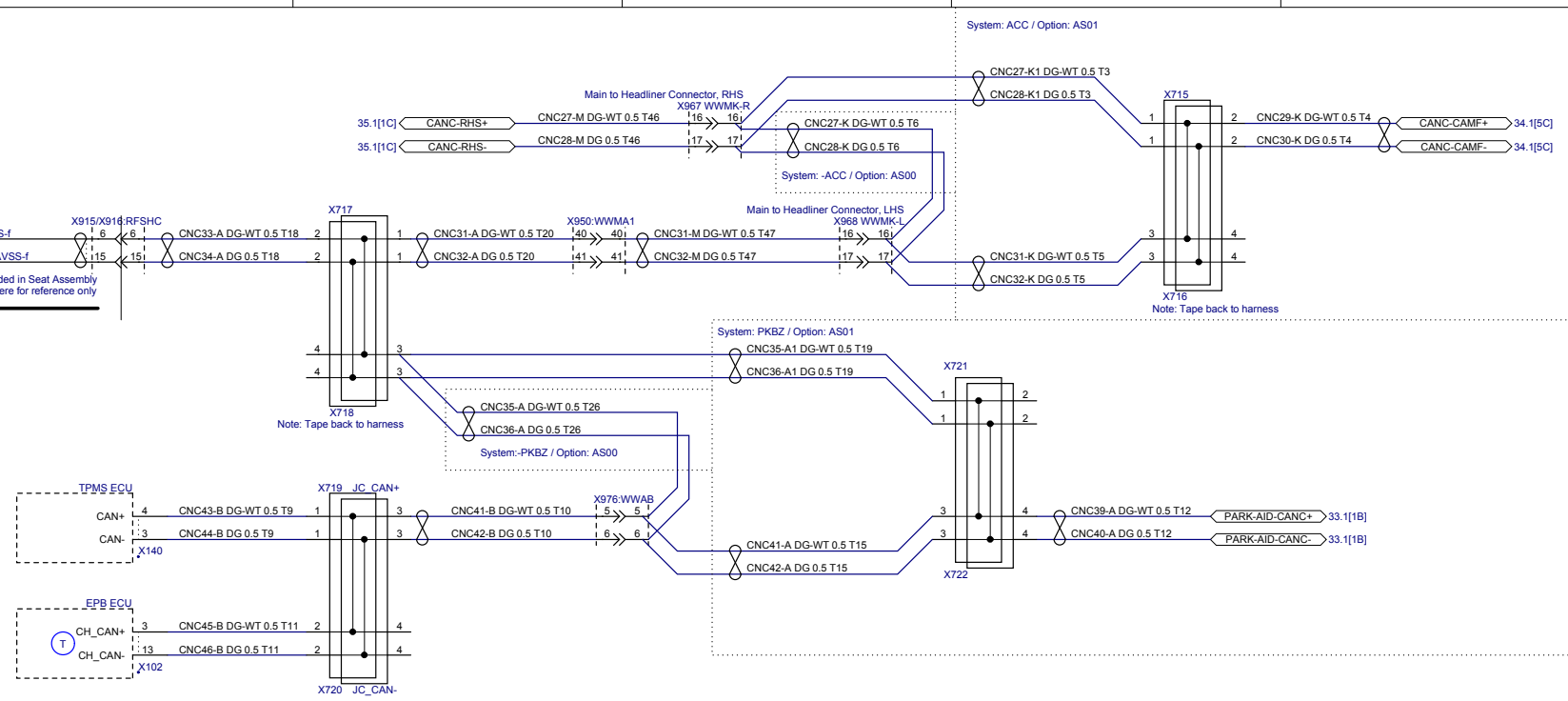
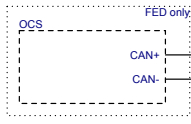
 TESLA MOTORS, Inc.		ORIGINATOR:	PROJECT NAME:	PHASE:
		B. Moerdyk	2013 Model S Wiring: LHD	SOP
		DRAWN BY:	SHEET NAME:	
		B. Moerdyk	Advanced Safety - Blind Zone Assist	
CHECKED BY:	DATE:	ITEM NO:	REVISION:	DATE:
*	*	1004573-00-E	12	5/13/2014
ENG APPVL	DATE:	DO NOT SCALE DRAWING		SHEET 34.1
*	*			

1 2 3 4 5 6



PROJECT NAME: 2013 Model S Wiring: LHD		PHASE: SOP
SHEET NAME: Chassis CAN Network 1/2		
ITEM NO. 1004573-00-E	REVISION: 12	DATE: 5/13/2014
DO NOT SCALE DRAWING		SHEET 35.1

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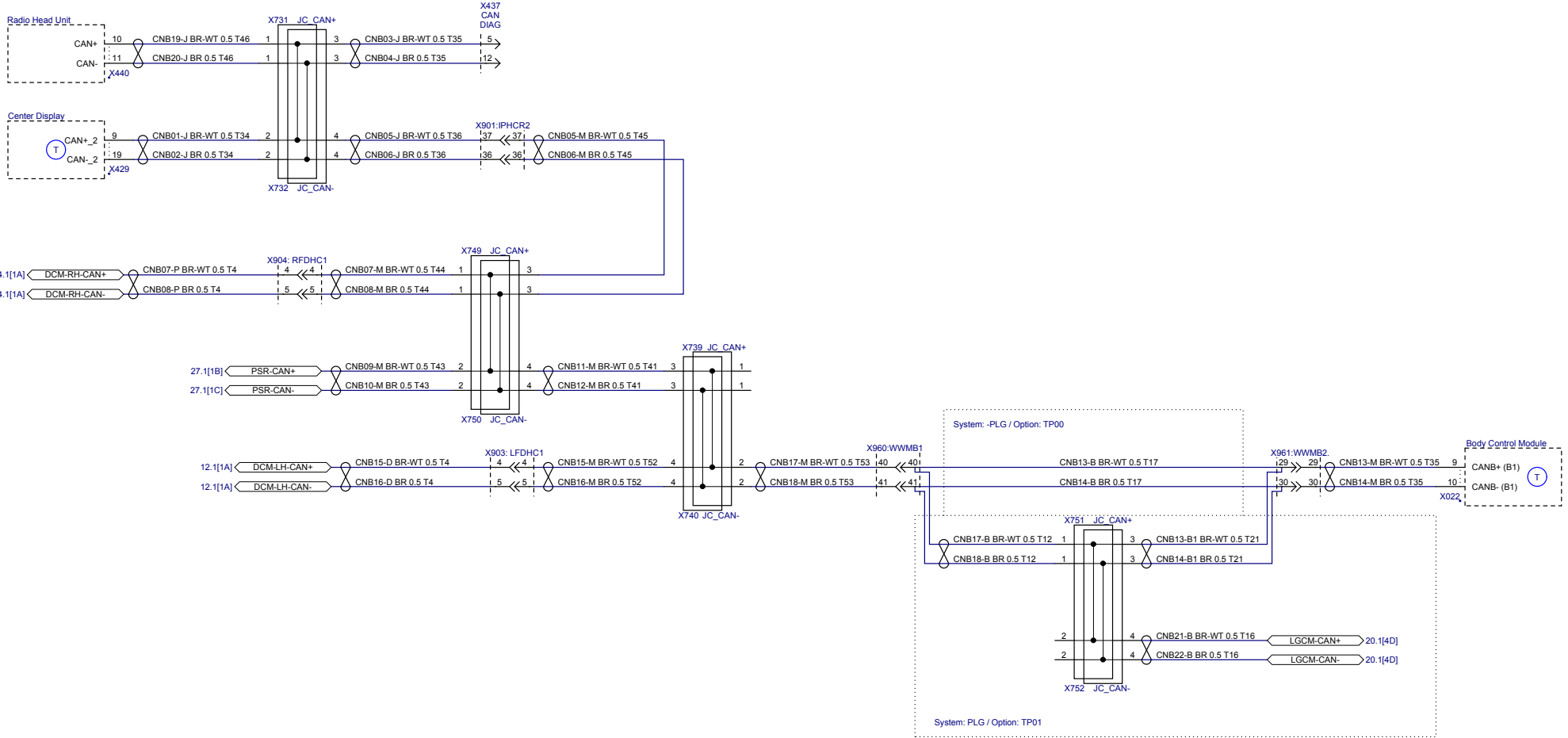


See Sheet 1.4 for options information

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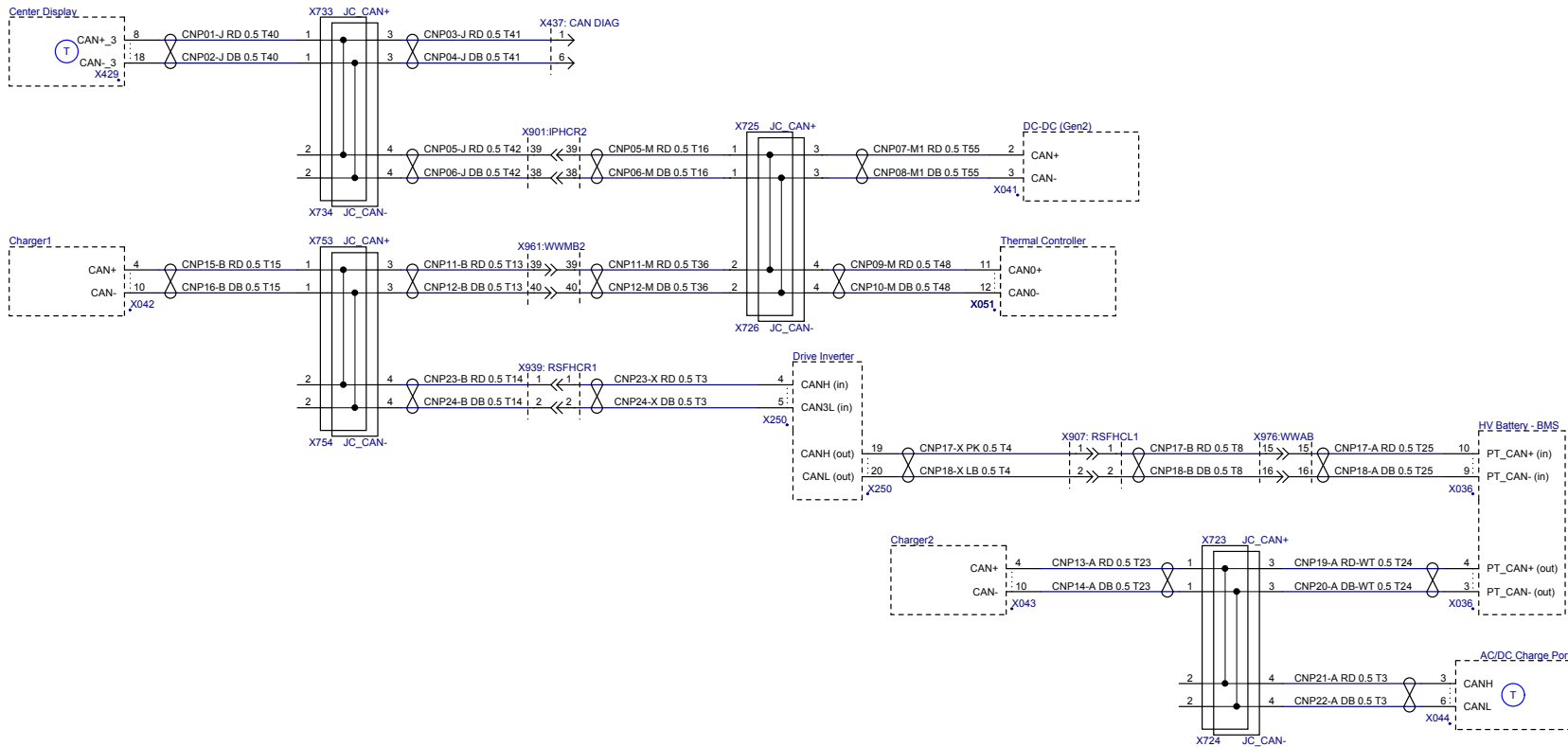


PROJECT NAME: 2013 Model S Wiring: LHD	PHASE: SOP
SHEET NAME: Chassis CAN Network 2/2	
ITEM NO. 1004573-00-E	REVISION: 12
DATE: 5/13/2014	
DO NOT SCALE DRAWING	SHEET 35.2



PROJECT NAME: 2013 Model S Wiring: LHD		PHASE: SOP
SHEET NAME: Body CAN Network		
ITEM NO. 1004573-00-E	REVISION: 12	DATE: 5/13/2014
DO NOT SCALE DRAWING		SHEET 36.1

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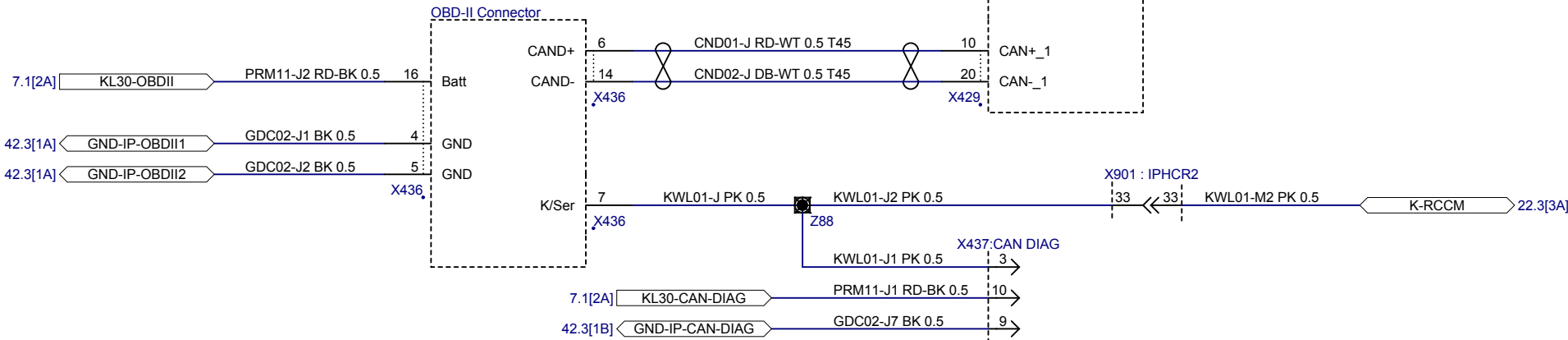
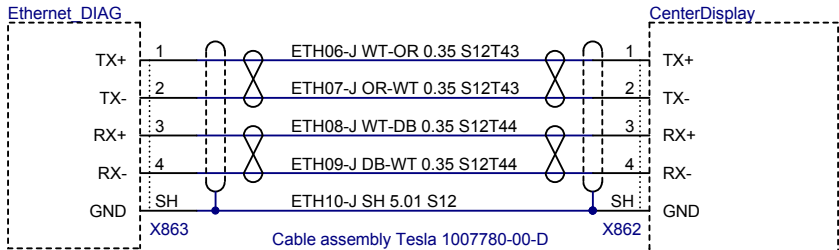
PROJECT NAME: 2013 Model S Wiring: LHD PHASE: SOP

SHEET NAME: PT CAN Network 1

ITEM NO. 1004573-00-E REVISION: 12 DATE: 5/13/2014

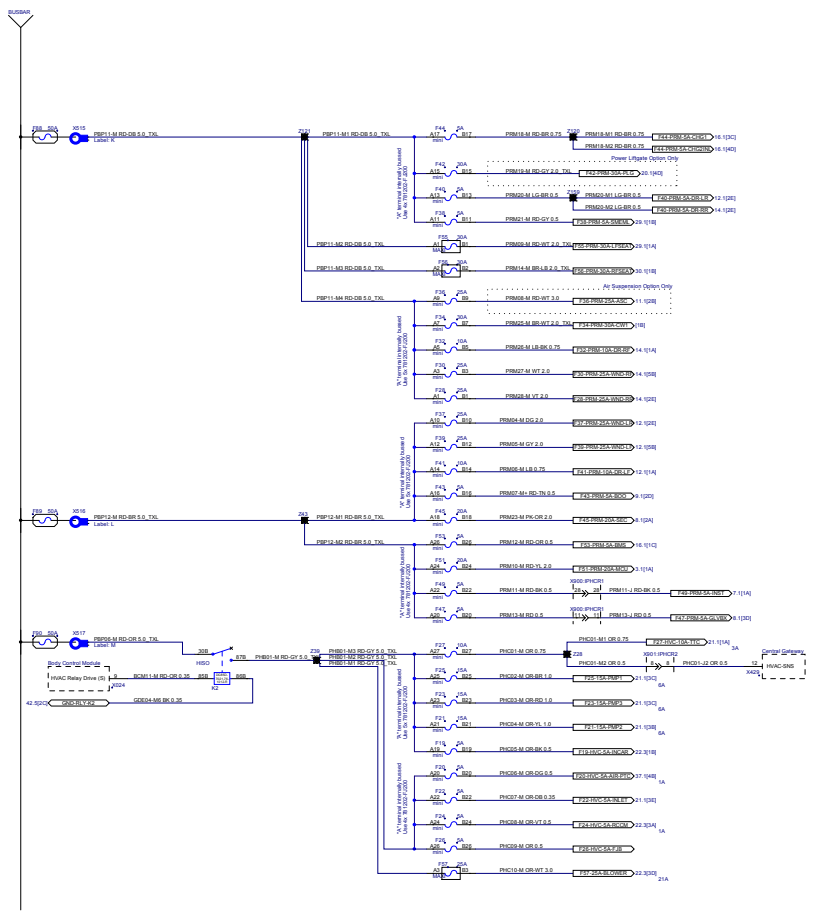
DO NOT SCALE DRAWING SHEET 38.1

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PROJECT NAME: 2013 Model S Wiring: LHD		PHASE: SOP
SHEET NAME: Vehicle Diagnostic Connections		
ITEM NO. 1004573-00-E	REVISION: 12	DATE: 5/13/2014
DO NOT SCALE		SHEET 39.1

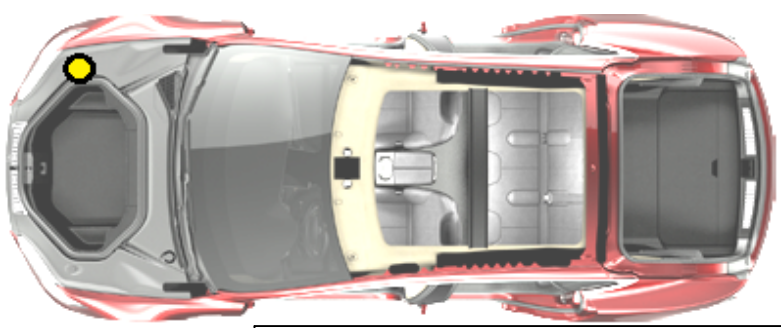
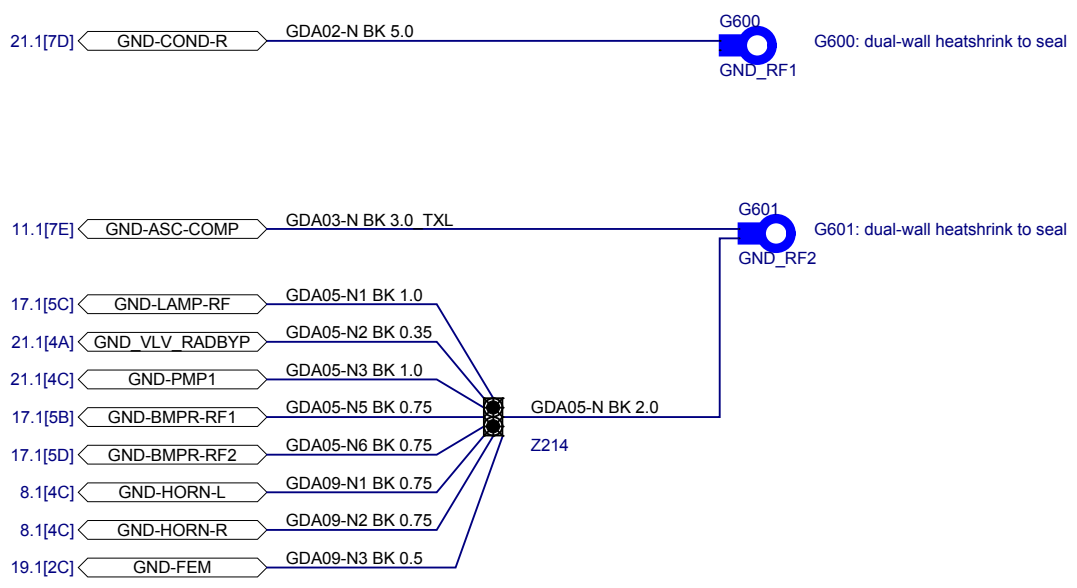
THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.



PROJECT NAME	2013 Model S Wiring: LHD	REVISION	SOP
DESCRIPTION	12V Power Distribution - 2	DATE	5/13/2014
PROJECT NUMBER	1004573-00-E	SHEET	12
DO NOT SCALE DRAWING		SHEET 40.2	

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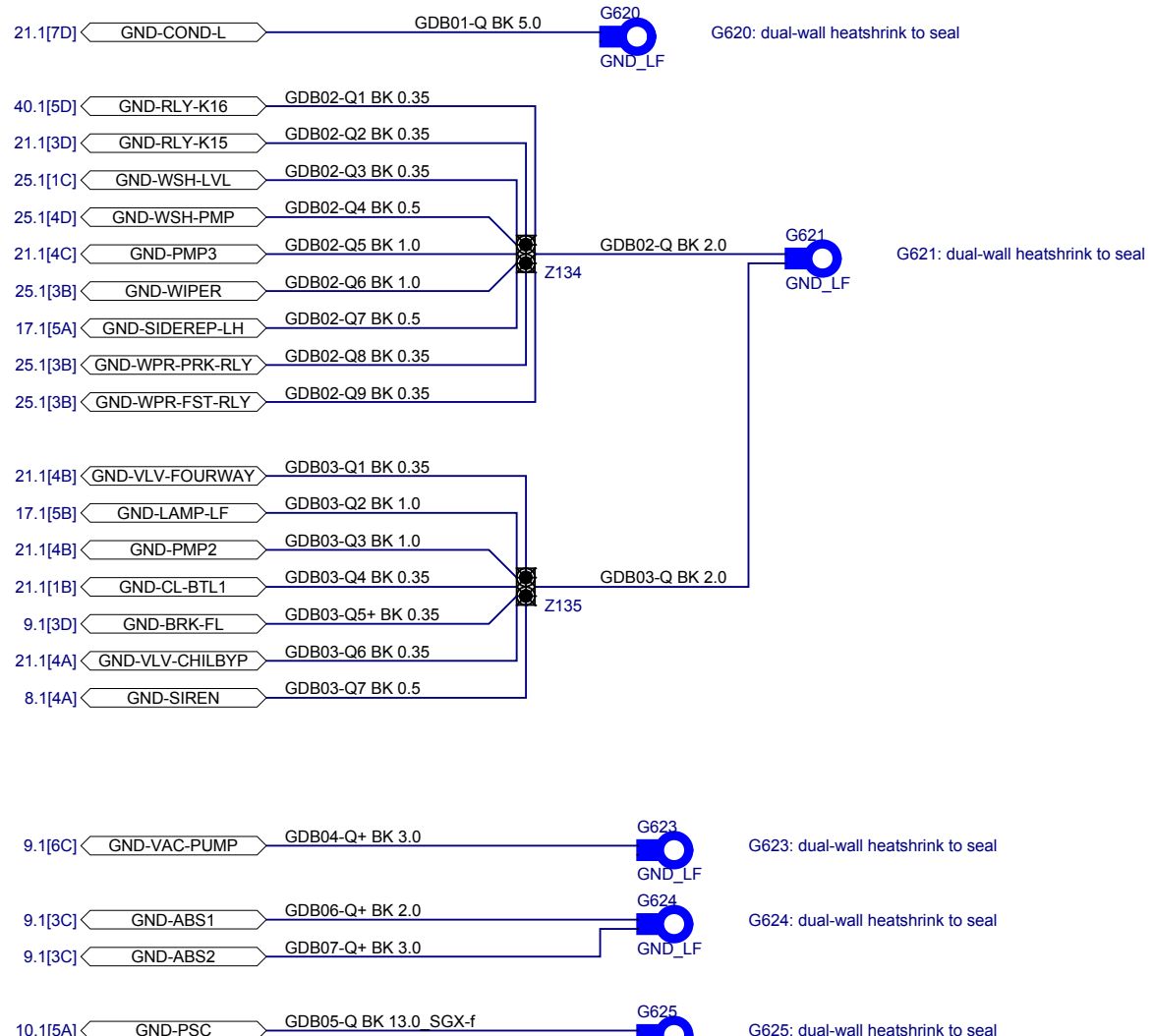
RF Ground Point - Forward of Wheel



PROJECT NAME: 2013 Model S Wiring: LHD		PHASE: SOP
SHEET NAME: Ground Distribution - Right Front		
ITEM NO. 1004573-00-E	REVISION: 12	DATE: 5/13/2014
DO NOT SCALE		SHEET 42.1

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

LF Ground Point - Forward of Wheel



A

A

B

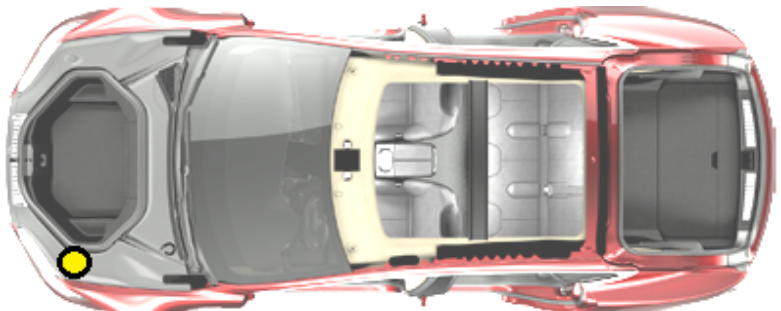
B

C

C

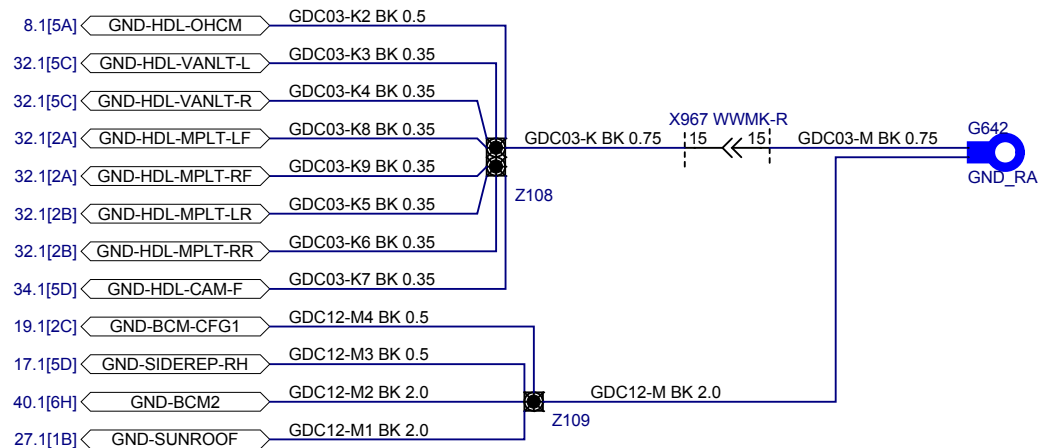
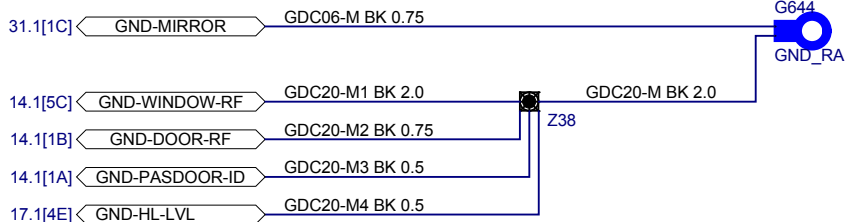
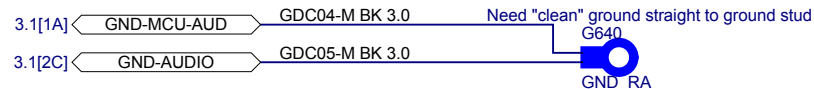
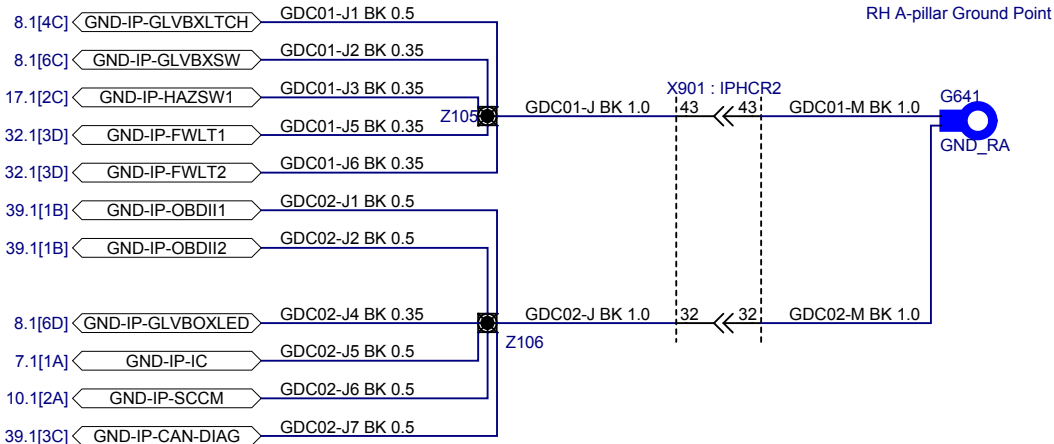
D

D

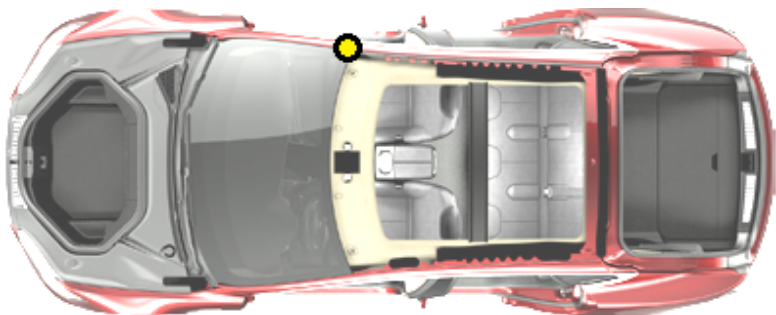


PROJECT NAME: 2013 Model S Wiring: LHD		PHASE: SOP
SHEET NAME: Ground Distribution - Left Front		
ITEM NO. 1004573-00-E	REVISION: 12	DATE: 5/13/2014
DO NOT SCALE		SHEET 42.2

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.



MAIN Body Harness



TESLA

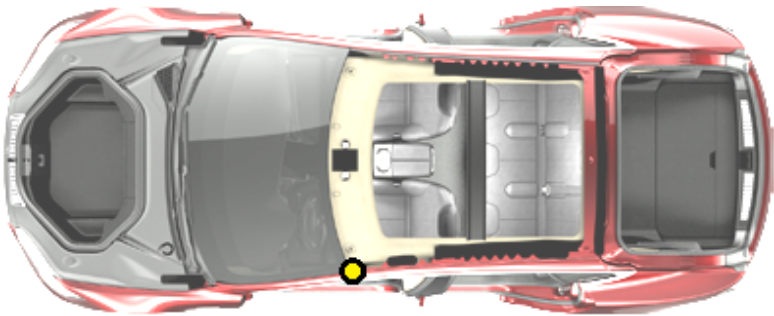
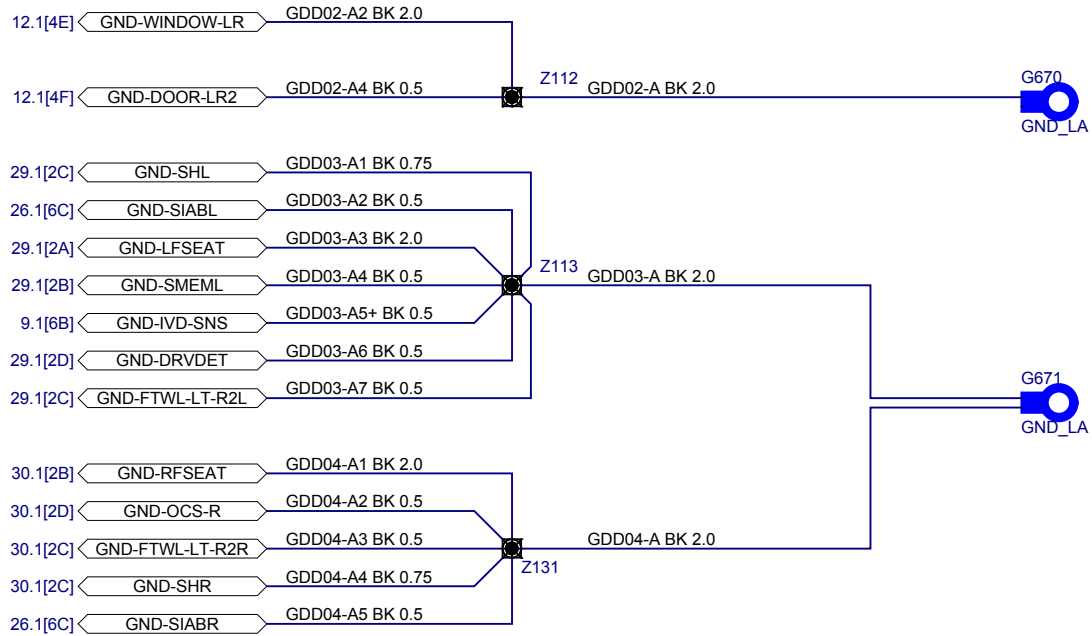
PROJECT NAME: 2013 Model S Wiring: LHD		PHASE: SOP
SHEET NAME: Ground Distribution - RHS A-Pillar		
ITEM NO. 1004573-00-E	REVISION: 12	DATE: 5/13/2014
DO NOT SCALE		SHEET 42.3

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

LH A-pillar Ground Point

MAIN Body Harness

LEFT Body Harness



PROJECT NAME: 2013 Model S Wiring: LHD PHASE: SOP

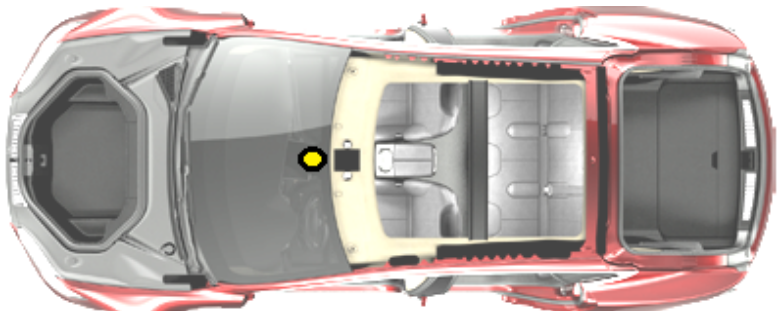
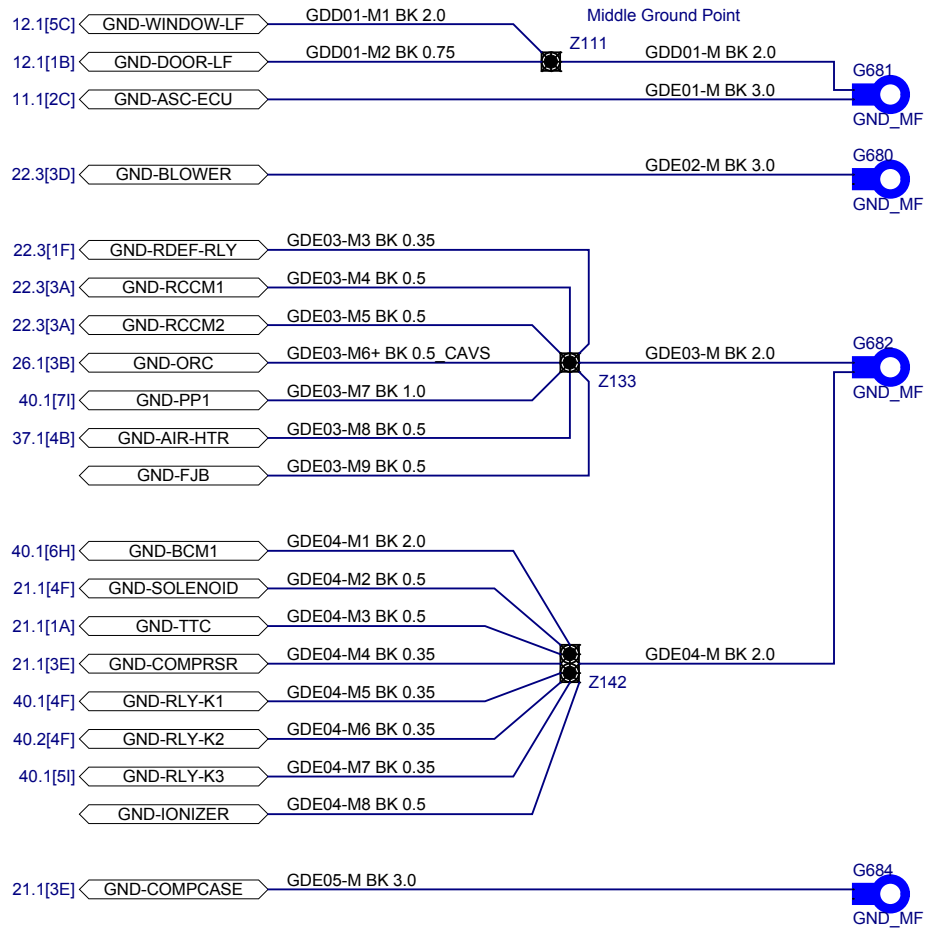
SHEET NAME: Ground Distribution - LHS A-pillar

ITEM NO. 1004573-00-E REVISION: 12 DATE: 5/13/2014

DO NOT SCALE

SHEET 42.4

THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

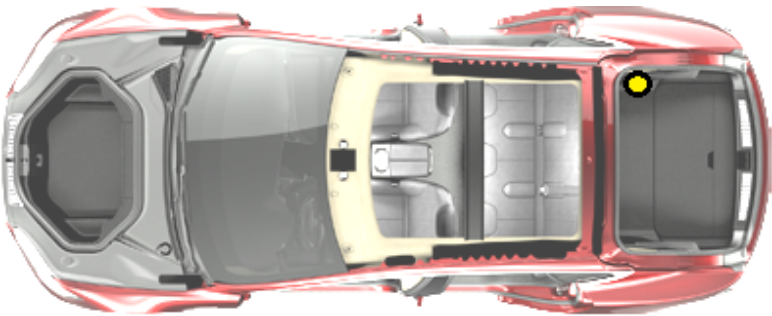
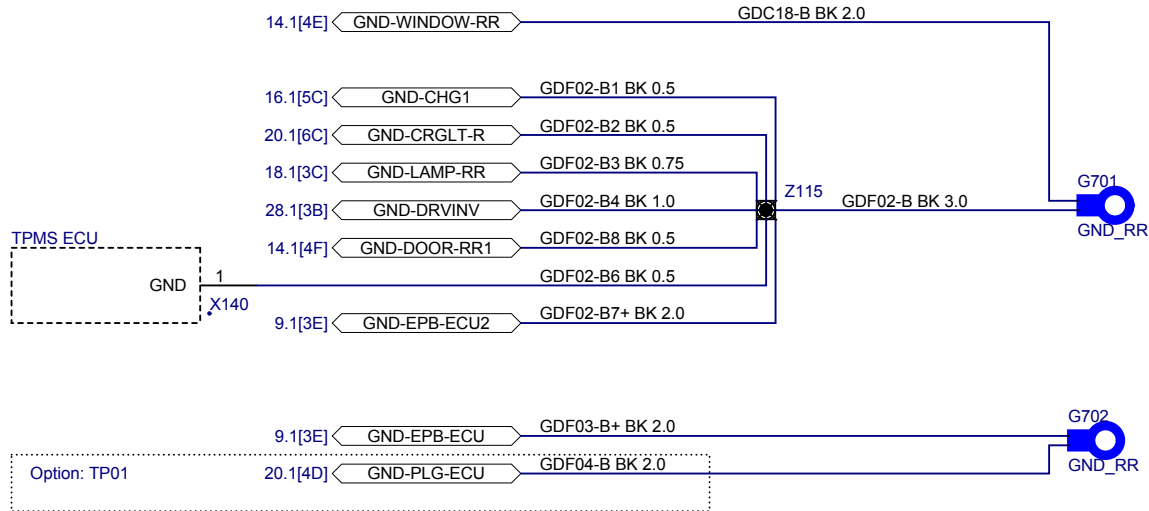


THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT OF TESLA MOTORS.

TESLA

PROJECT NAME: 2013 Model S Wiring: LHD		PHASE: SOP
SHEET NAME: Ground Distribution - Lower Center Stack		
ITEM NO. 1004573-00-E	REVISION: 12	DATE: 5/13/2014
DO NOT SCALE		SHEET 42.5

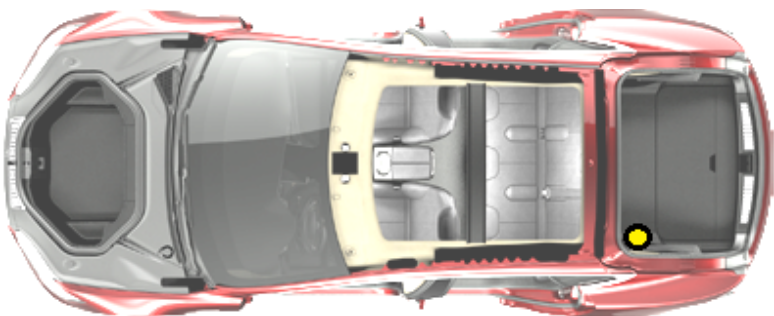
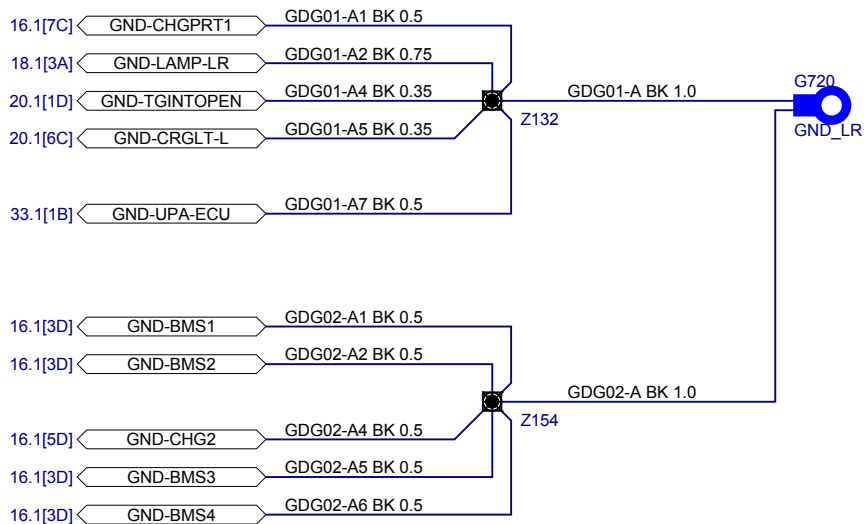
RR Ground Point - Behind Wheel



PROJECT NAME: 2013 Model S Wiring: LHD		PHASE: SOP
SHEET NAME: Ground Distribution - Right Rear		
ITEM NO. 1004573-00-E	REVISION: 12	DATE: 5/13/2014
DO NOT SCALE		SHEET 42.6

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LR Ground Point - Behind Wheel



PROJECT NAME: 2013 Model S Wiring: LHD PHASE: SOP

SHEET NAME: Ground Distribution - Left Rear

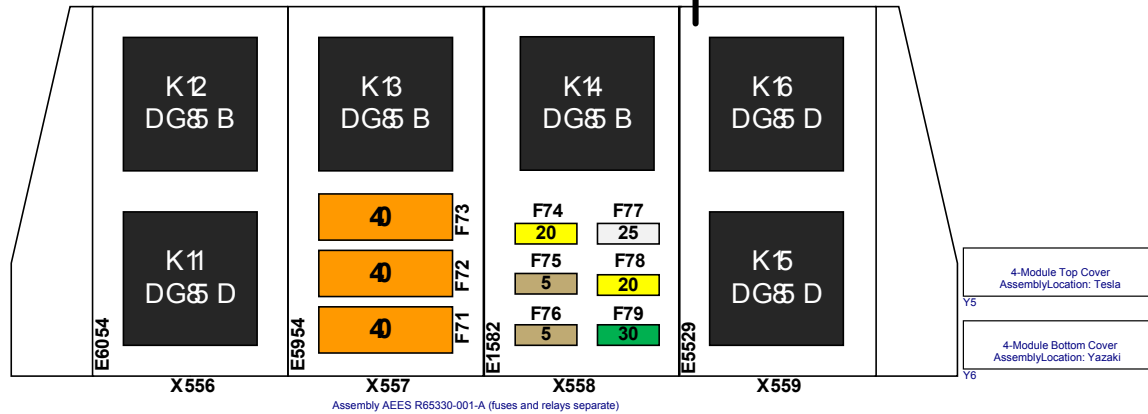
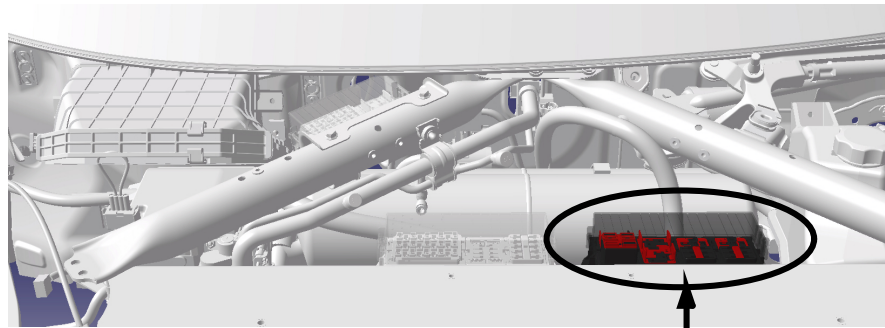
ITEM NO. 1004573-00-E REVISION: 12 DATE: 5/13/2014

DO NOT SCALE

SHEET 42.7

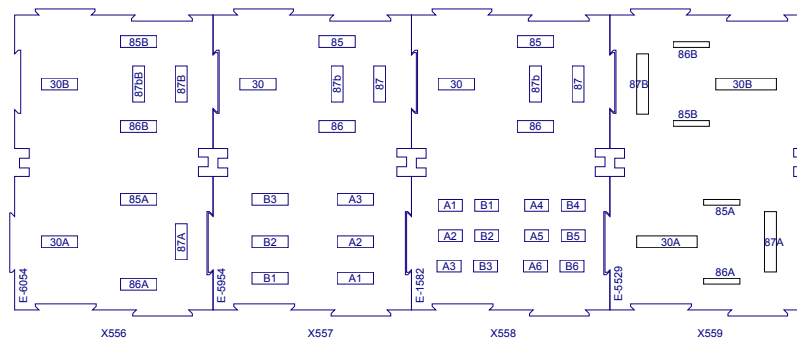
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Des. Function	Option
K11 Air Suspension Compressor	ASC
K12 Vacuum Pump	ALL
K13 Wiper Park Function	ALL
K14 Wiper Fast Function	ALL
K15 Condenser Fan Power	ALL
K16 Drive Switched Power	ALL
F71 Condenser Fan, Left	ALL
F72 Condenser Fan, Right	ALL
F73 Vacuum Pump	ALL
F74 12V Drive Rail, Cabin	ALL
F75 Power Steering Logic - IGN	ALL
F76 ABS Logic - IGN	ALL
F77 Stability Control Valves	ALL
F78 Headlight Dip/Main Beam	ALL
F79 Lighting (Exterior/Interior)	ALL



4-Module Top Cover
AssemblyLocation: Tesla

4-Module Bottom Cover
AssemblyLocation: Yazaki



TESLA

PROJECT NAME: 2013 Model S Wiring: LHD PHASE: SOP

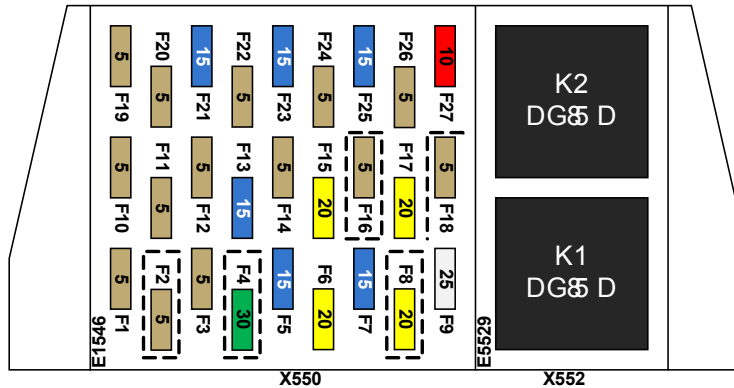
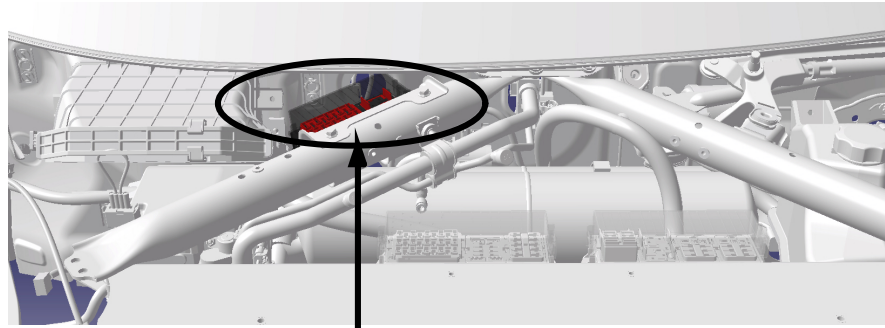
SHEET NAME: Front Fusebox Layout

ITEM NO. 1004573-00-E REVISION: 12 DATE: 5/13/2014

DO NOT SCALE DRAWING SHEET 44.1

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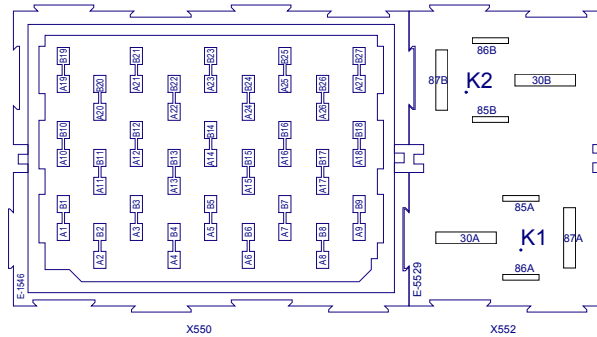
Des. Function	Option
F1 ACC sense, Radio	ALL
F2 Headlamp leveling	HLVL
F3 Vanity Lights, Rear View Mirror	ALL
F4 Cold Weather Package Group 1	CW01
F5 Seat Heater, Left Front	ALL
F6 Base Audio Amplifier	ALL
F7 Seat Heater, Right Front	ALL
F8 Premium Audio Amplifier	ALL
F9 Panoramic Sunroof	ALL
F10 Passive Safety Restraints	ALL
F11 Steering Column Controls	ALL
F12 Drive Power / Yaw Rate Sense	ALL
F13 Wiper Park	ALL
F14 Drive Inverter	ALL
F15 Electric Park Brake	ALL
F16 Parking System	PKA,BZA
F17 Electric Park Brake	ALL
F18 not used	ACC
F19 AQS / In-car sensor	ALL
F20 Cabin Air Heater Logic	ALL
F21 Coolant Pump 2	ALL
F22 Inlet Actuators	ALL
F23 Coolant Pump 3	ALL
F24 Cabin Climate Control	ALL
F25 Coolant Pump 1	ALL
F26 Coolant Heater Logic	ALL
F27 Thermal Controller	ALL
K1 ACC Power Switch	ALL
K2 HVAC Power Switch	ALL



Assembly AEES R65328-001-A (fuses and relays separate)

3-Module Top Cover
AssemblyLocation: Tesla
Y1

3-Module Bottom Cover
AssemblyLocation: Yazaki
Y2

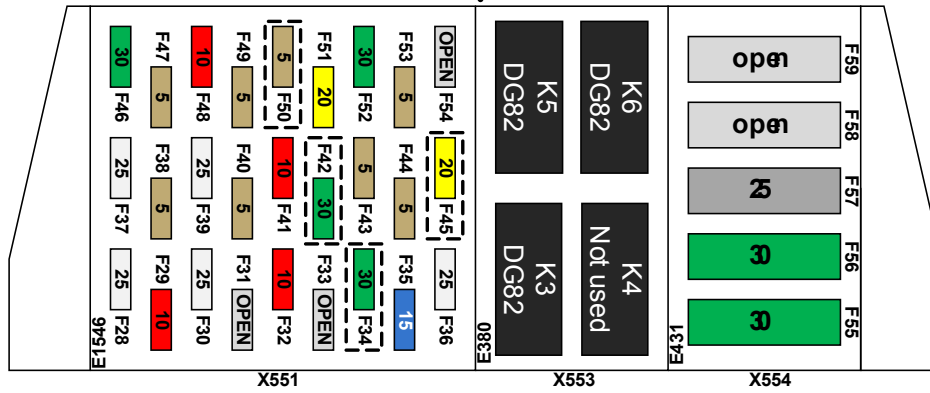
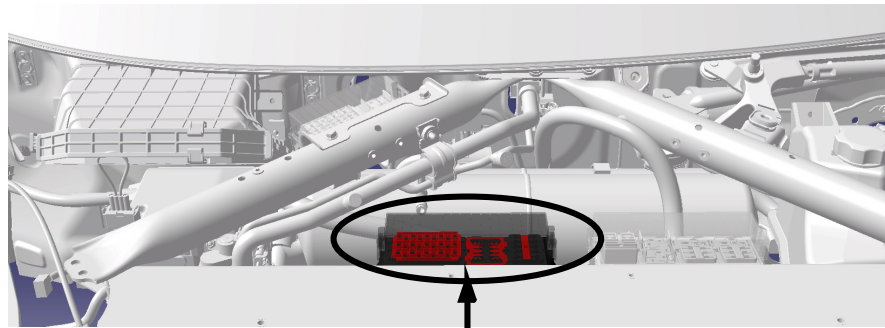


TESLA

PROJECT NAME: 2013 Model S Wiring: LHD	PHASE: SOP
SHEET NAME: "Cabin" Fusebox 1 Layout	
ITEM NO. 1004573-00-E	REVISION: 12
DATE: 5/13/2014	
DO NOT SCALE DRAWING	SHEET 44.2

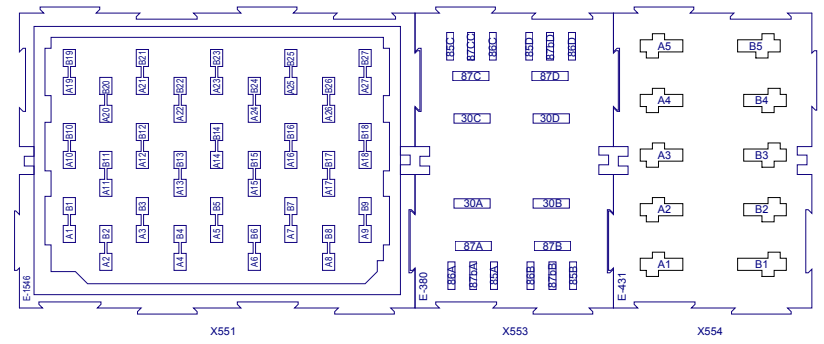
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Des. Function	Option
F28 Window Lift Motor, Right Rear	ALL
F29 Contactor Power	ALL
F30 Window Lift Motor, Right Front	ALL
F31 not connected	ALL
F32 Door Controls, Right Side	ALL
F33 not used	
F34 Cold Weather Package Group 2	CW01
F35 12V Accessory Outlet	ALL
F36 Air Suspension Control, Valves	ASC
F37 Window Lift Motor, Left Rear	ALL
F38 Driver's Seat Memory	ALL
F39 Window Lift Motor, Left Front	ALL
F40 Rear Door Handles	ALL
F41 Door Controls, Left Side	ALL
F42 Power Liftgate	PLG
F43 Perm. Power Sense, Brake Sw.	ALL
F44 Chargers, Charge Port	ALL
F45 Passive Entry, Horns	ALL
F46 Body Controls, Group 2	ALL
F47 Glove Box Light	ALL
F48 Body Controls, Group 1	ALL
F49 Instrument Cluster	ALL
F50 Siren, Intrusion/Tilt Sensor	SP01
F51 Center Display	ALL
F52 Rear Window Defrost Grid	ALL
F53 Battery Management System	ALL
F54 not used	ALL
F55 Left Front Seat Adjust Motor	ALL
F56 Right Front Seat Adjust Motor	ALL
F57 Cabin Fan	ALL
F58 not connected	
F59 not connected	
K3 12V Outlet Switch	ALL
K4 not connected	
K5 Rear Defrost Grid	ALL
K6 not connected	



4-Module Top Cover
AssemblyLocation: Tesla
Y3

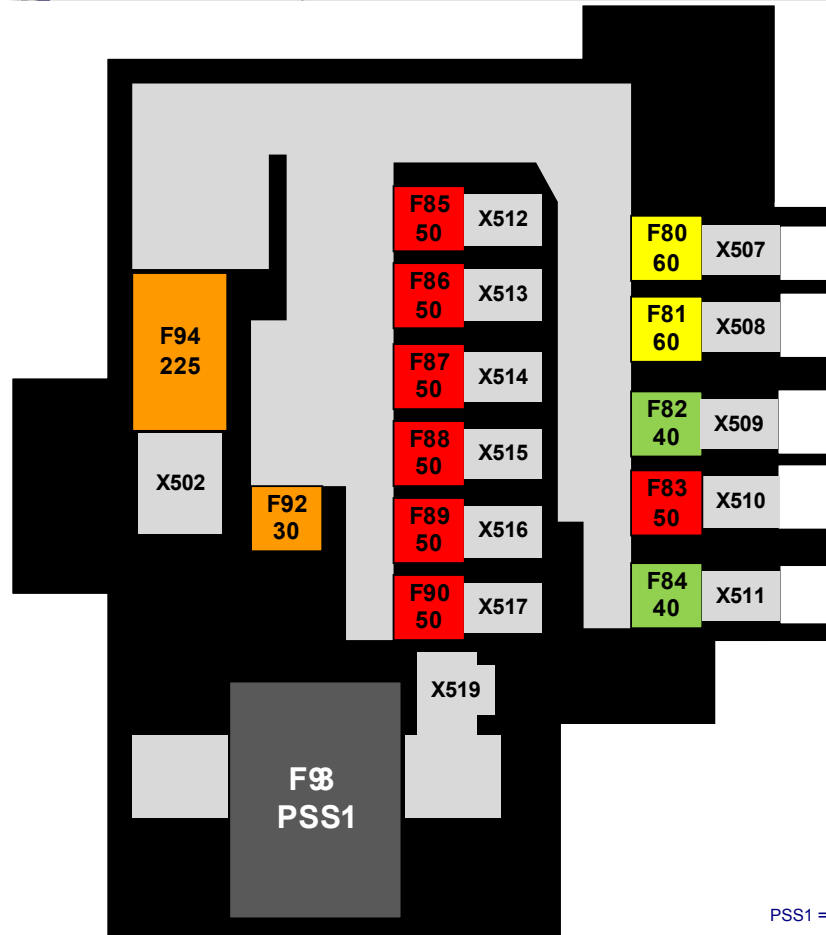
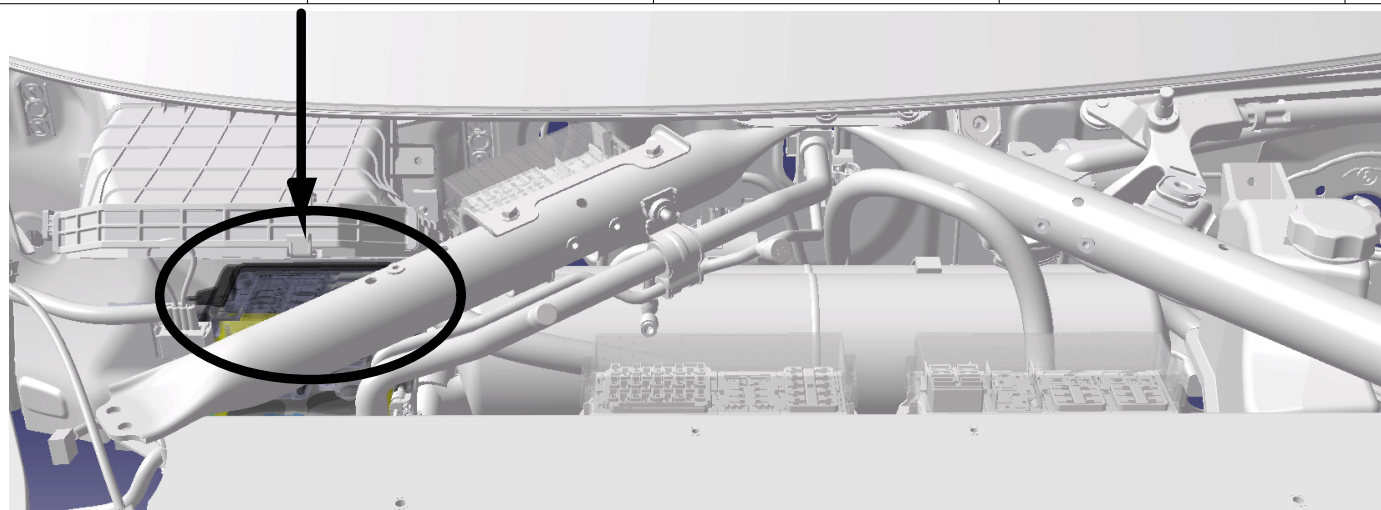
4-Module Bottom Cover
AssemblyLocation: Yazaki
Y4



TESLA

PROJECT NAME: 2013 Model S Wiring: LHD PHASE: SOP
 SHEET NAME: "Cabin" Fusebox 2 Layout
 ITEM NO. 1004573-00-E REVISION: 12 DATE: 5/13/2014
 DO NOT SCALE DRAWING SHEET 44.2

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PSS1 = TPN 1004635-00-A

Loc.	Description / Function	Type	Des.
F80	Power Steering	MIDI	X507
F81	Condenser Fans Master Fuse	MIDI	X508
F82	Air Suspension Compressor	MIDI	X509
F83	Jump Post	MIDI	X510
F84	ABS Motor	MIDI	X511
F85	Drive 12V Power Master Fuse	MIDI	X512
F86	ACC 12V Bus Master Fuse	MIDI	X513
F87	Permanent Power Group 1	MIDI	X514
F88	Permanent Power Group 2	MIDI	X515
F89	Permanent Power Group 3	MIDI	X516
F90	HVAC 12V Bus Master Fuse	MIDI	X517
F92	Contactor Power	MIDI	X503
F93	BDS: Contactor Power Cutoff	PSS1	X519
F94	Battery-DCDC Master Fuse	MEGA	X502

TESLA

PROJECT NAME: 2013 Model S Wiring: LHD PHASE: SOP

SHEET NAME: Battery-Mounted Fusebox Layout

ITEM NO. 1004573-00-E REVISION: 12 DATE: 5/13/2014

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SHEET 44.4

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