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DRIVR	Driver Seat
PASSN	Passenger Seat
LHST	Left side Seat
RHST	Right Side Seat
FOG	Fog Light
MCOLM	Manual Steering Column
PCOLM	Power Steering Column
BAUDIO	Base Audio
PAUDIO	Premium Audio
COLDW	Cold Weather Package
LHD	Left Hand Drive
RHD	Right Hand Drive
AWD	All Wheel Drive
RWD	Rear Wheel Drive
BINLT	Base Interior Lights
PINLT	Premium Interior Lights
BMIRROR	Base Mirror
PMIRROR	Premium Mirror with Powerfold
REAP	Region Asia Pacific
REEU	Region Europe
RENA	Region North America
CSUSP	Coil Suspension
PREMST	Premium Seat

LF	Left Front	RF	Right Front
LR	Left Rear	RR	Right Rear
LHS	Left-Hand Side	RHS	Right-Hand Side

A	LH BODY	Q	PARCEL SHELF
B	RH BODY	R	LH RR DOOR
C	CENTER CONSOLE	S	RH RR DOOR
D	LH FR DOOR	T	LIFT GATE
F	FR FASCIA	U	THERMAL
G	RR FASCIA	V	GLASS
H	HV PENTHOUSE	W	FRUNK
J	IP	X	REAR SUBFRAME
K	HEADLINER	Y	FRONT SEATS
L	FRONT END MODULE		
N	FRONT SUBFRAME		
P	RH FR DOOR		

BK	Black	OG	Orange
BN	Brown	RD	Red
BU	Blue	VT	Violet (Purple)
GN	Green	WH	White
GY	Gray	YE	Yellow

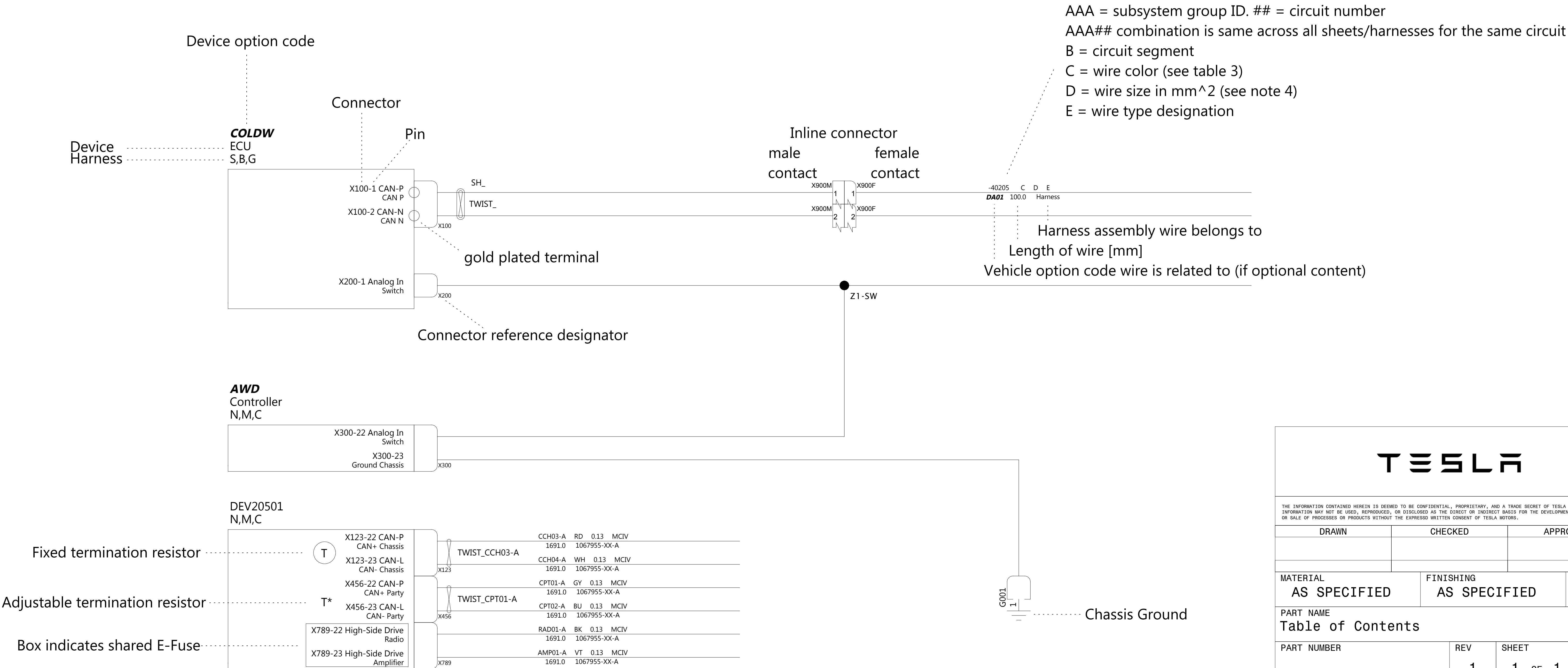
FLRY	Thin wall 105C rated, regular stranded PVC insulated [FLRY-A]
FLRB	Thin wall 105C rated, bunched conductor PVC insulated [FLRY-B]
MCIV	Thin wall 105C rated, compressed conductor PVC (halogen free) insulated
XR15	Thin wall 150C rated, cross-linked polyolefin, high flexible
FLXB	Thin wall 125C rated, cross-linked polyolefin, high flexible, halogen free insulated
3TBL	Thick wall 105C rated, aluminum conductor PVC insulated

General Notes:

- 1) Switches [Relays] are shown in their inactive [de-energized] state.
- 2) Splices may be split across pages for visual clarity with respect to the function displayed on the particular page.
- 3) 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.
- 4) Wire sizes are specified in mm^2 cross-sectional area (CSA) per SAE 1127/8
- 5) Wire Specification: 60V, thin-wall PVC (ISO type or equivalent).
Default wire type to be rated 60VDC/25VAC and -40C to 105C operating temperature.
See DIN 13602 or ISO 6722 for detailed specifications.
- 6) Unless otherwise specified at the device pins, terminal plating is to be Tin or Pre-Tin

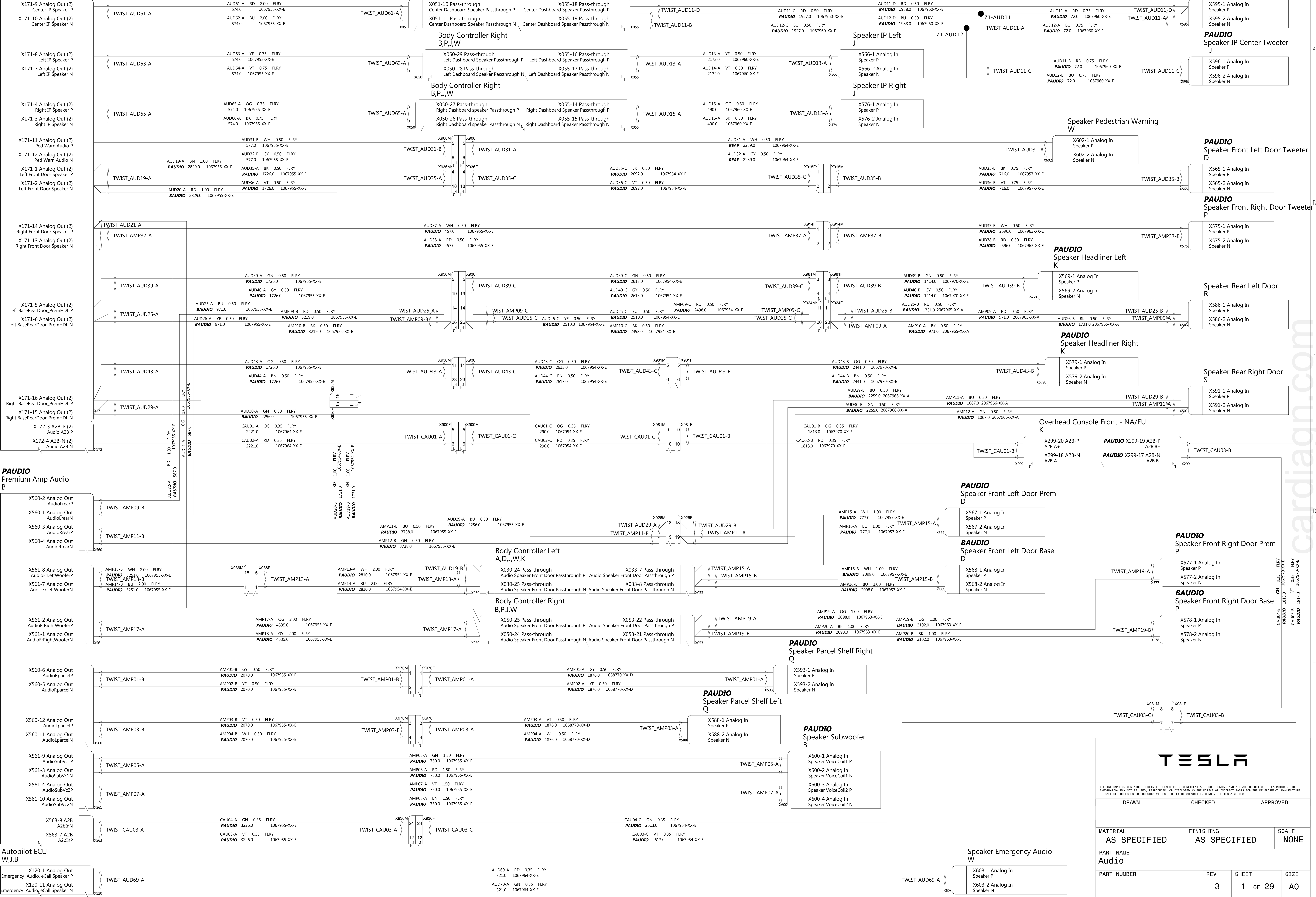
TERMINAL	PLATING
☐	GOLD TERMINAL NECESSARY
☐	SILVER PLATING NECESSARY

- 7) 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

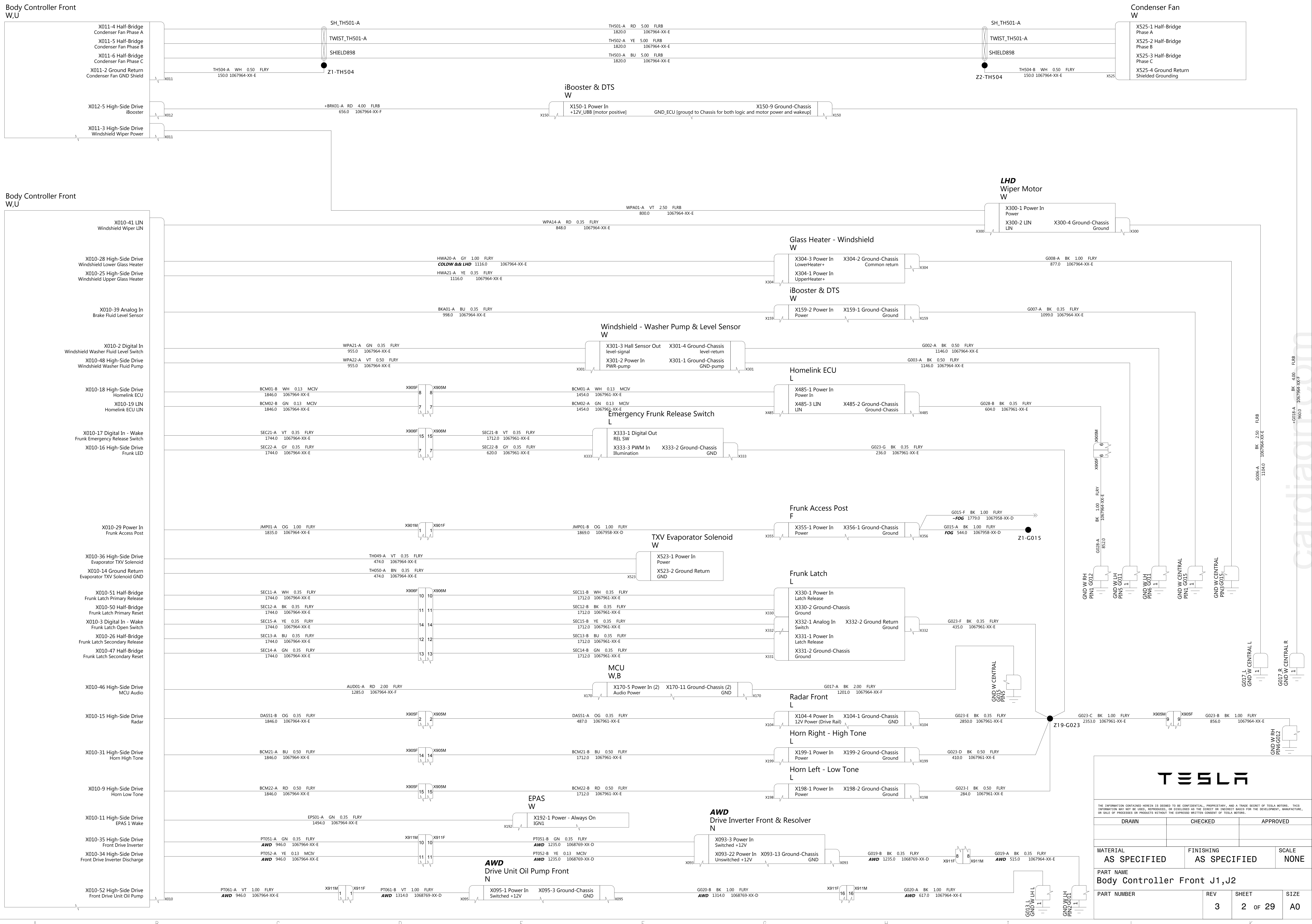


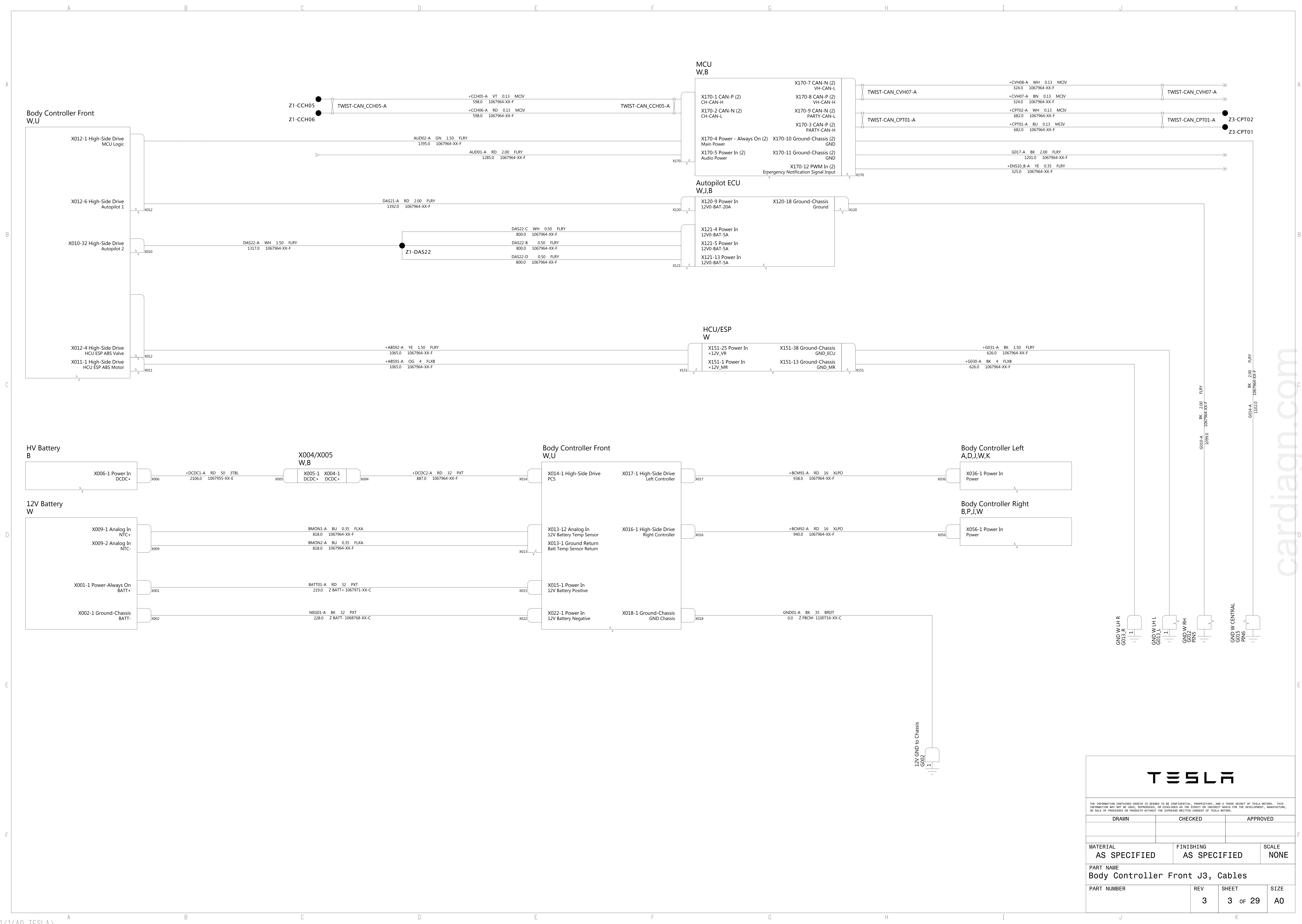
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DRAWN	CHECKED	APPROVED	
MATERIAL	FINISHING	SCALE	
AS SPECIFIED	AS SPECIFIED	NONE	
PART NAME			
Table of Contents			
PART NUMBER	REV	SHEET	SIZE
	1	1 OF 1	A0

MCU
W,B



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DRAWN	CHECKED	APPROVED	
MATERIAL AS SPECIFIED		FINISHING AS SPECIFIED	SCALE NONE
PART NAME Audio			
PART NUMBER	REV 3	SHEET 1 OF 29	SIZE A0



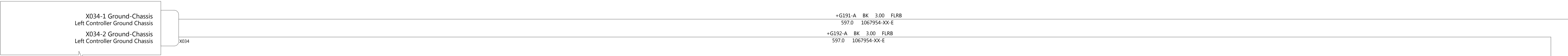


Body Controller Left
A,D,J,W,K

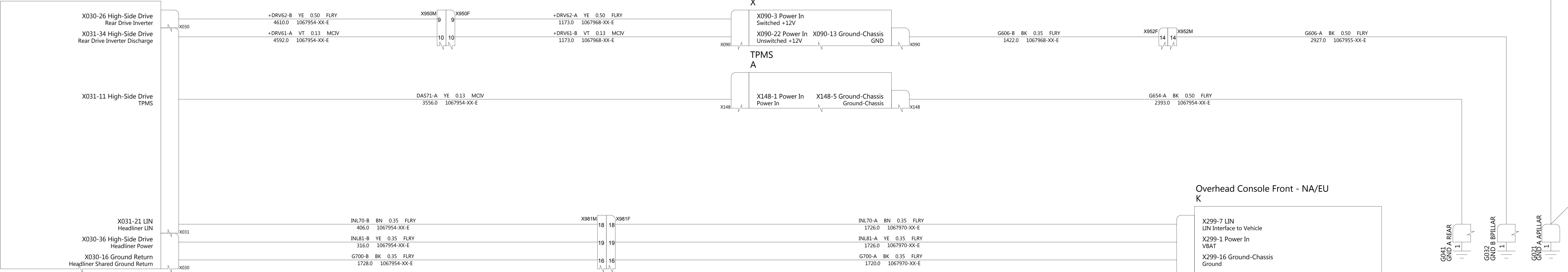


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DRAWN	CHECKED	APPROVED	
MATERIAL AS SPECIFIED	FINISHING AS SPECIFIED		SCALE NONE
PART NAME Body Controller Left J1			
PART NUMBER	REV 3	SHEET 5 OF 29	SIZE A0

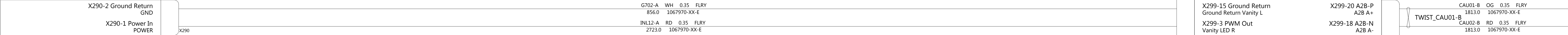
Body Controller Left
A,D,J,W,K



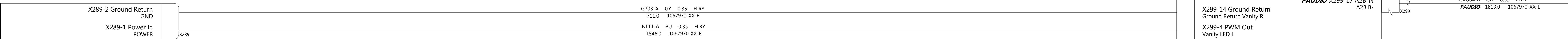
Body Controller Left
A,D,J,W,K



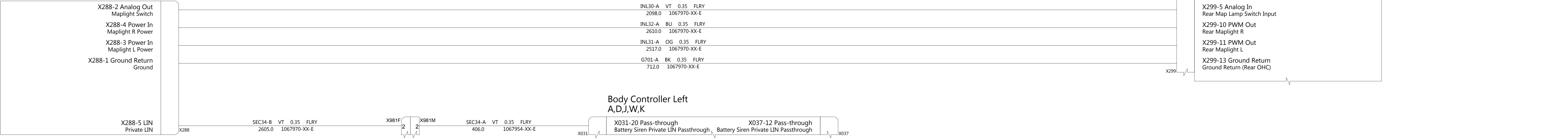
Vanity LED Right
K



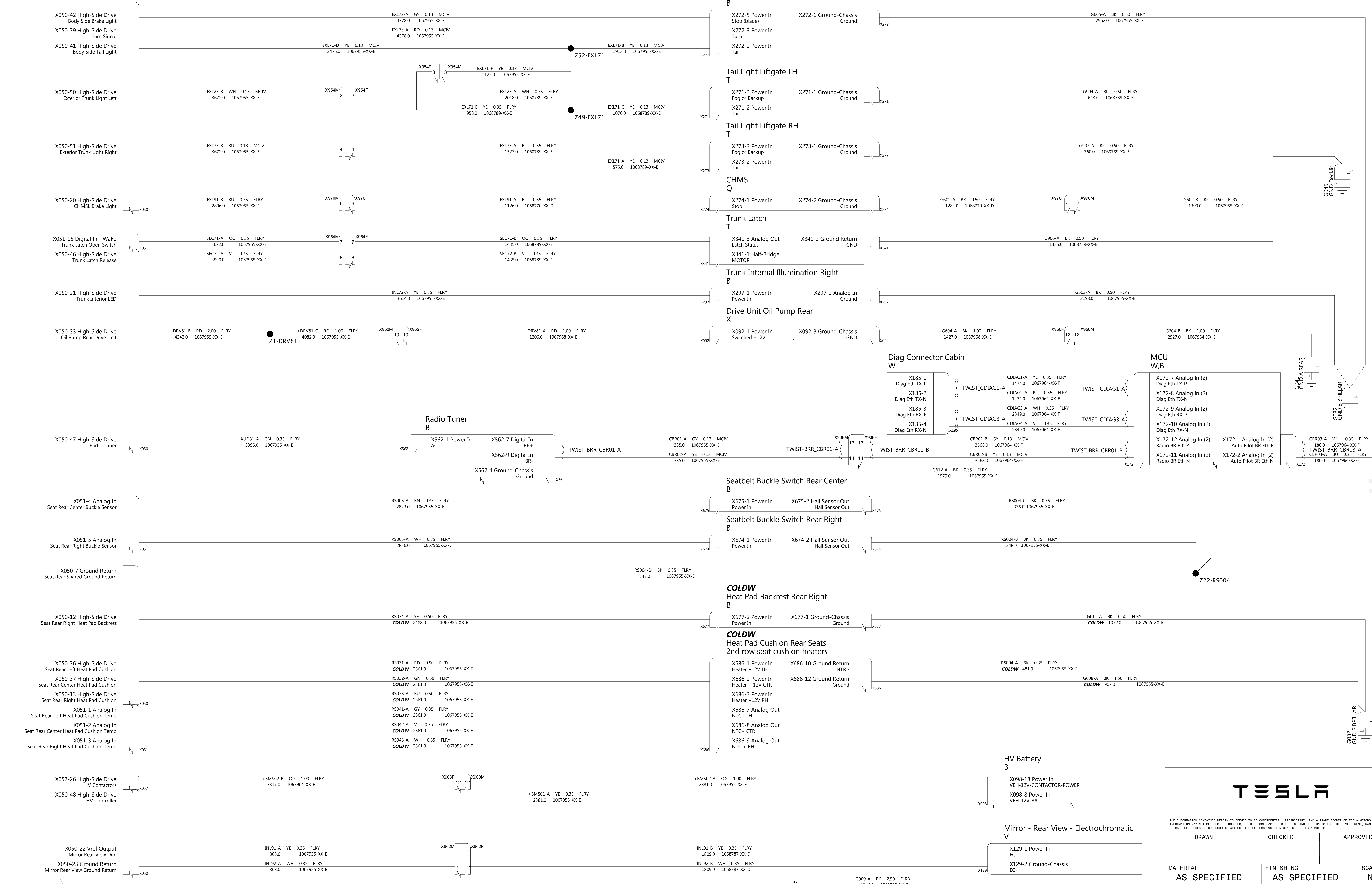
Vanity LED Left
K



Overhead Console Rear - NA/EU
K

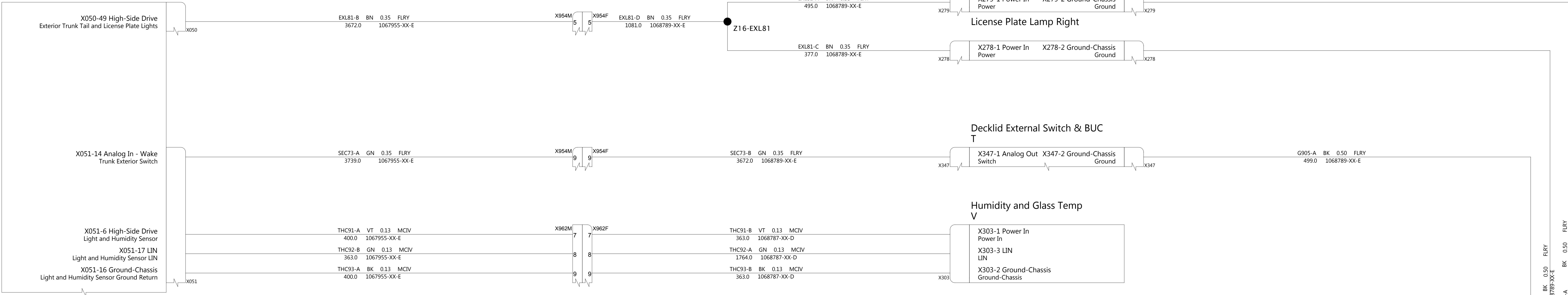


Body Controller Right
B,P,I,W

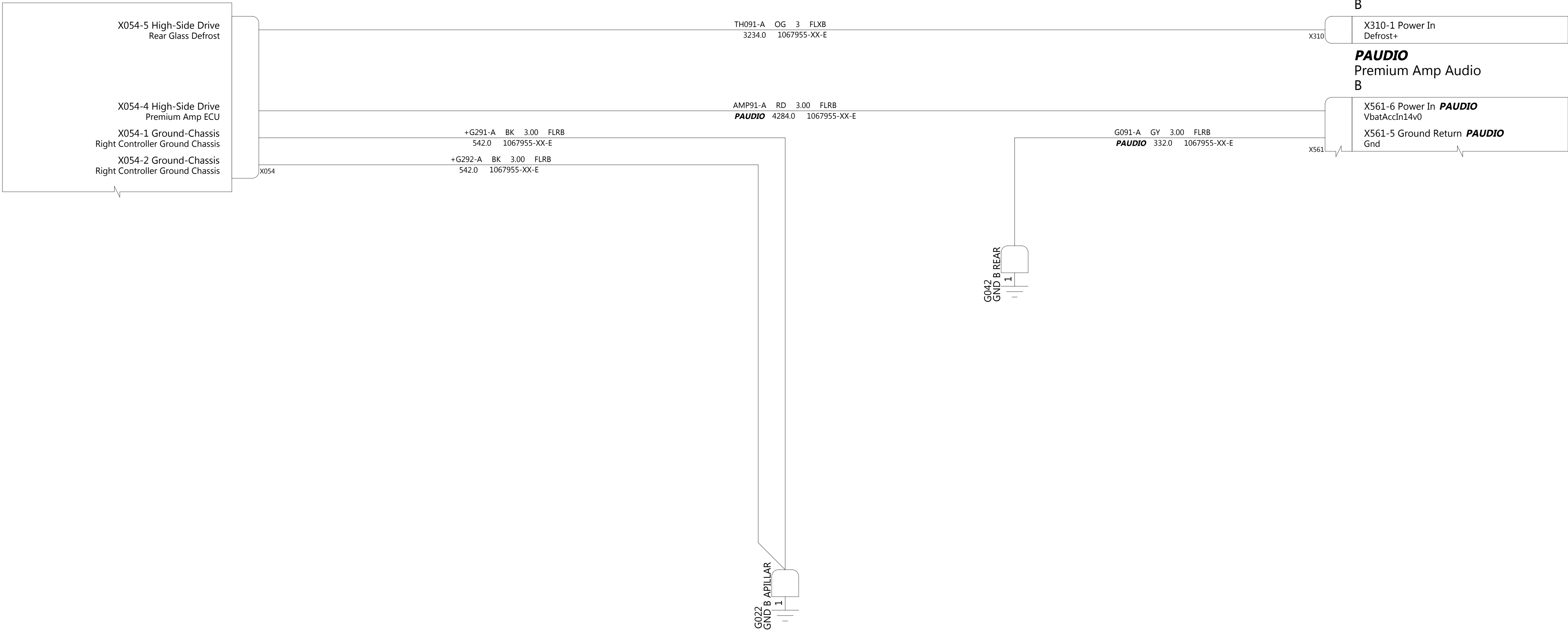


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DRAWN	CHECKED	APPROVED	
MATERIAL	FINISHING	SCALE	
AS SPECIFIED	AS SPECIFIED	NONE	
PART NAME			
Body Controller Right J1			
PART NUMBER	REV	SHEET	SIZE
	3	7 OF 29	A0

Body Controller Right
B,P,J,W



Body Controller Right
B,P,J,W



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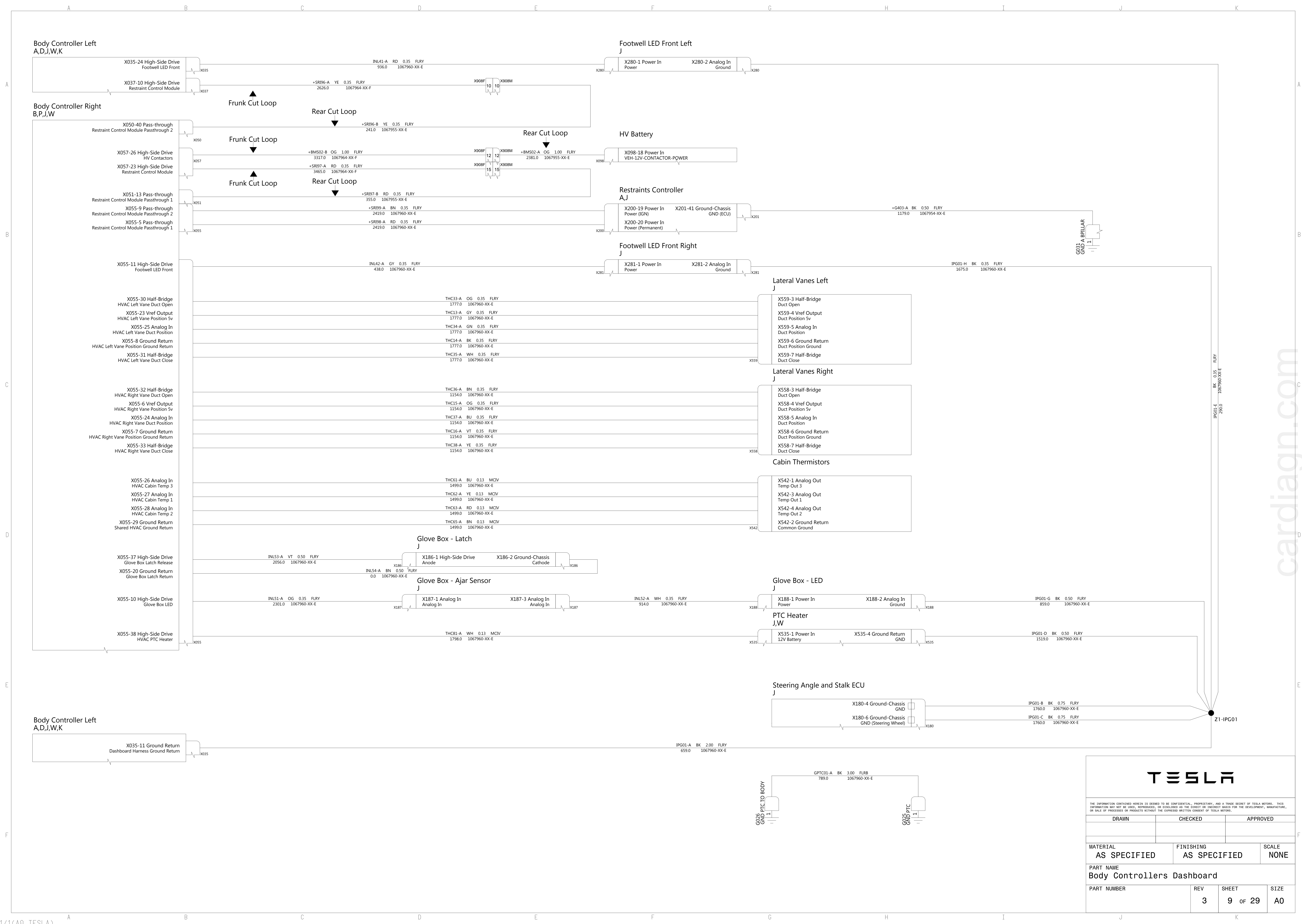
THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. THIS INFORMATION MAY NOT BE USED, REPRODUCED, OR DISCLOSED AS THE DIRECT OR INDIRECT BASIS FOR THE DEVELOPMENT, MANUFACTURE, OR SALE OF PROCESSES OR PRODUCTS WITHOUT THE EXPRESSED WRITTEN CONSENT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

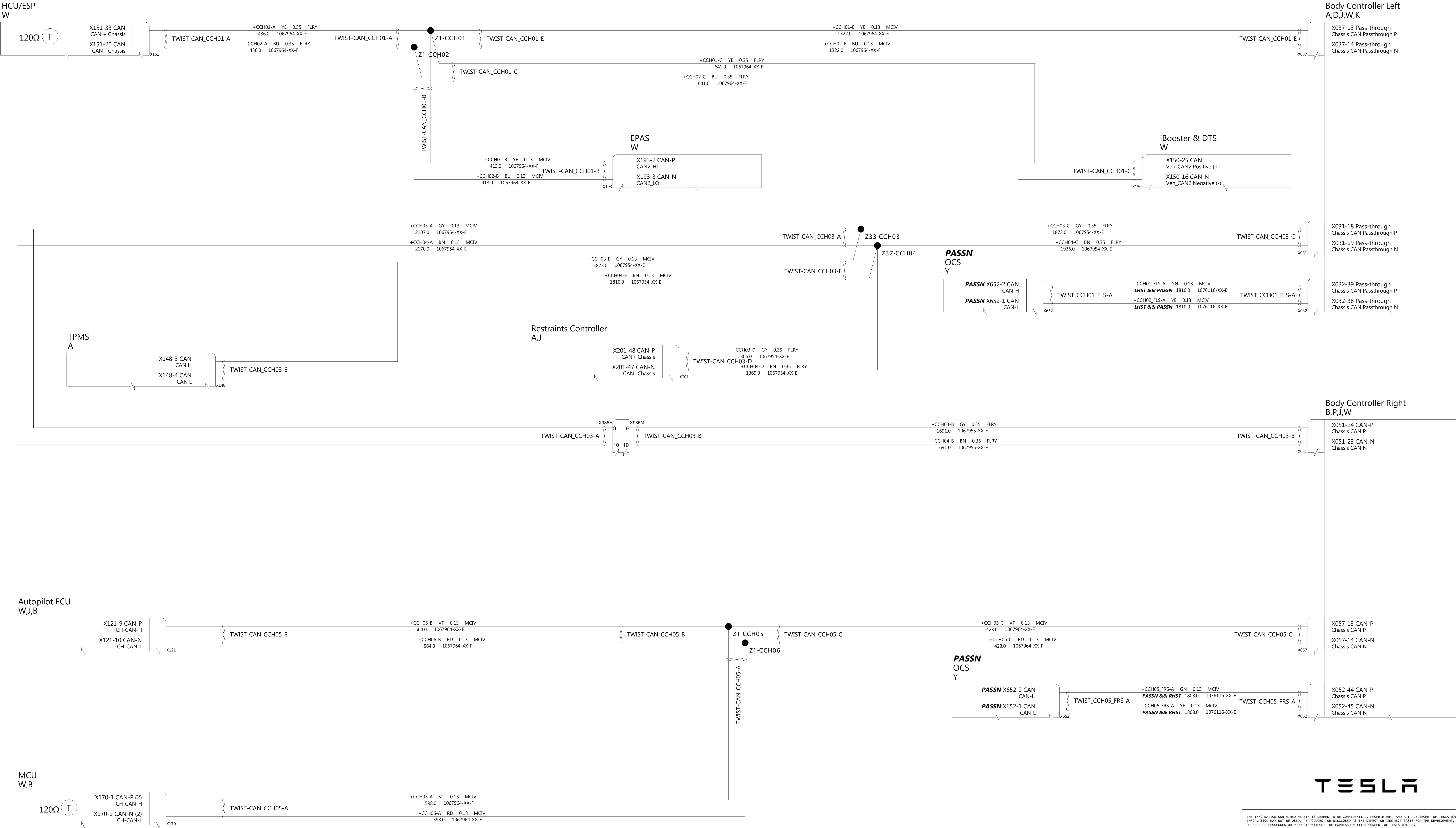
DRAWN	CHECKED	APPROVED

MATERIAL AS SPECIFIED	FINISHING AS SPECIFIED	SCALE NONE
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PART NAME
Body Controller Right J2, J5

PART NUMBER	REV	SHEET	SIZE
	3	8 OF 29	A0





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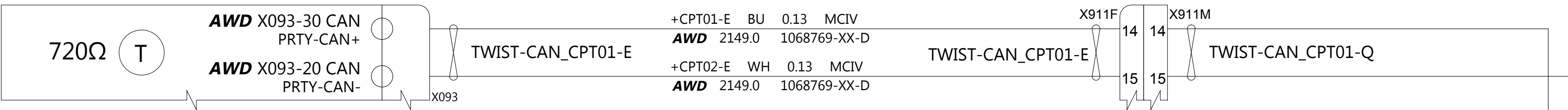
DRAWN	CHECKED	APPROVED

MATERIAL AS SPECIFIED	FINISHING AS SPECIFIED	SCALE NONE
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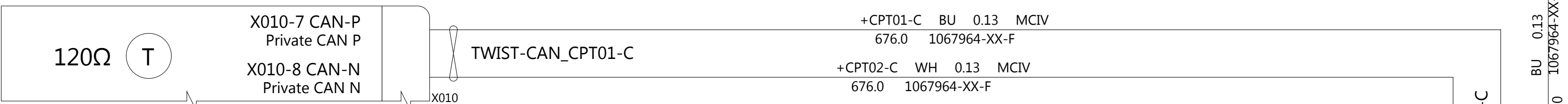
PART NAME CAN Chassis

PART NUMBER	REV 4	SHEET 12 of 30	SIZE A0
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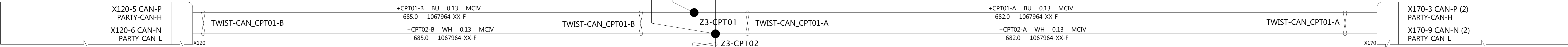
AWD
Drive Inverter Front & Resolver
N



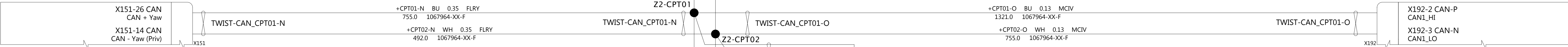
Body Controller Front
W,U



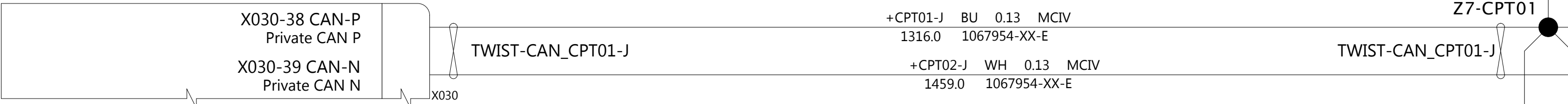
Autopilot ECU
W,J,B



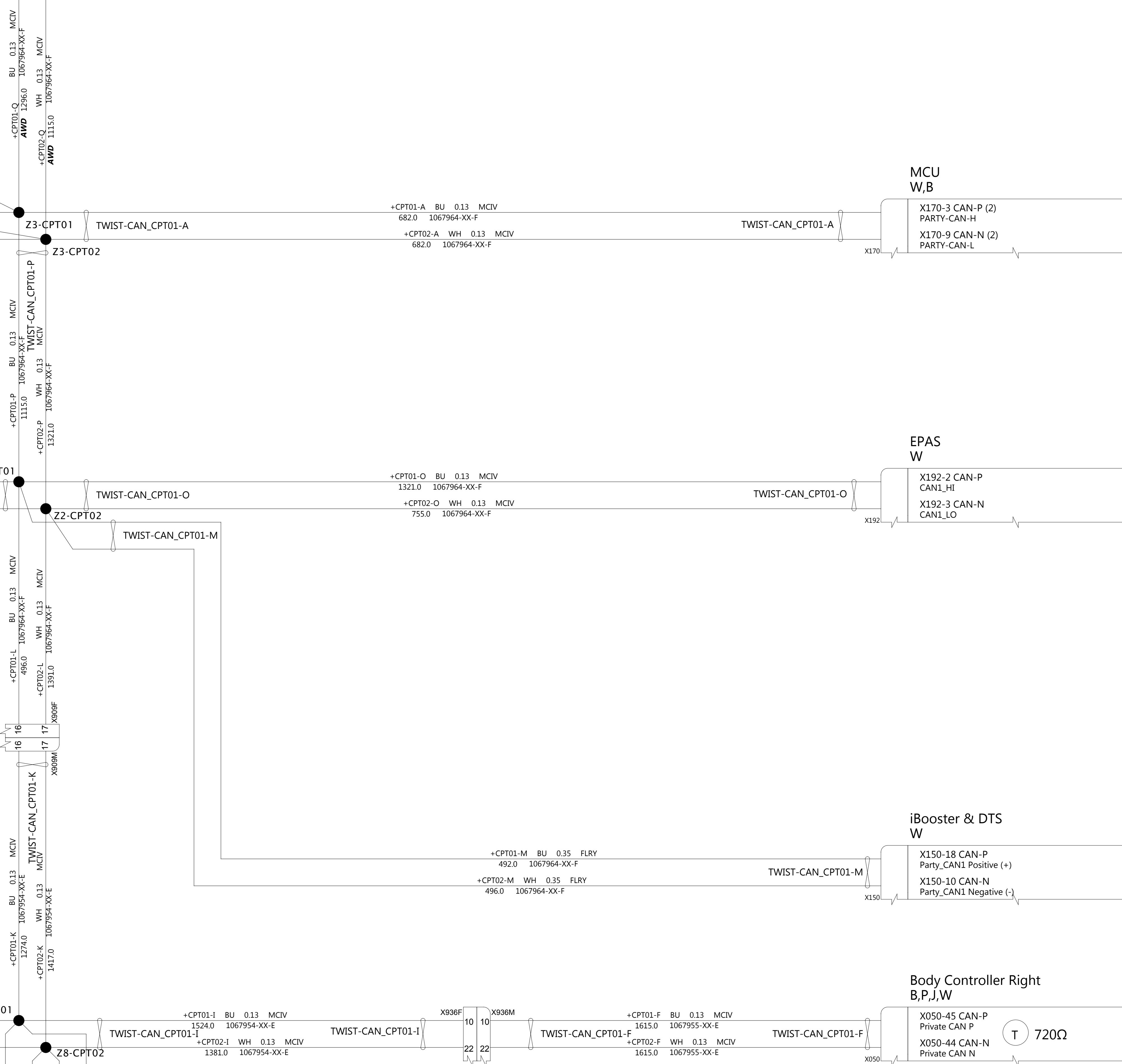
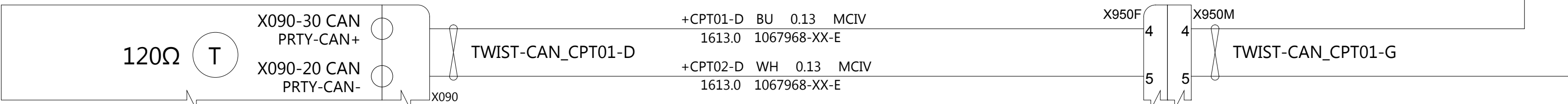
HCU/ESP
W



Body Controller Left
A,D,J,W,K



Drive Inverter Rear & Resolver
X



MCU
W,B

EPAS
W

iBooster & DTS
W

Body Controller Right
B,P,J,W

Restraints Controller
A,J

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DRAWN	CHECKED	APPROVED	
MATERIAL AS SPECIFIED		FINISHING AS SPECIFIED	SCALE NONE
PART NAME CAN Party			
PART NUMBER		REV 4	SHEET 13 of 30
		SIZE A0	

Figure 10 illustrates a CAN bus system configuration. The system includes a 720Ω termination resistor (T) connected to the CAN_H line. The bus is composed of two segments: TWIST-CAN_CVH01-H and TWIST-CAN_CVH01-F. The TWIST-CAN_CVH01-H segment is connected to the CAN_H and CAN_L lines of the X9093-12 CAN and X9093-2 CAN controllers. The TWIST-CAN_CVH01-F segment is connected to the CAN_H and CAN_L lines of the X9093-12 CAN controller. The bus is terminated with a 720Ω resistor. The diagram also shows the internal structure of the transceivers, including the CAN_H and CAN_L lines, and the termination resistor.

BINLT X492A-6 CAN CAN+ Vehicle	 TWIST-CAN_CVH01-B	+CVH01-B	YE	0.13	MCIV
		BINLT	624.0		1067956-XX-E
BINLT X492A-5 CAN CAN- Vehicle	 TWIST-CAN_CVH01-B	+CVH02-B	WH	0.13	MCIV
		BINLT	635.0		1067956-XX-E

[illegible]

120Ω T

X037-1 CAN-P
Vehicle CAN Termination P

X037-2 CAN-N
Vehicle CAN Termination N

Twist-CAN_CVH01-G

+CVH01-G YE 0.13 MCV
503.0 1067964-XX-F

+CVH02-G WH 0.13 MCV
503.0 1067964-XX-F

X037-8 CAN-P
Vehicle CAN P

X037-9 CAN-N
Vehicle CAN N

Twist-CAN_CVH03-A

+CVH03-A BU 0.13 MCV
1296.0 1067964-XX-F

+CVH04-A GY 0.13 MCV
1296.0 1067964-XX-F

X037-6 CAN-P
Vehicle CAN P

X037-7 CAN-N
Vehicle CAN N

Twist-CAN_CVH13-A

+CVH13-A BU 0.13 MCV
2054.0 1067964-XX-F

+CVH14-A VT 0.13 MCV
2054.0 1067964-XX-F

X035-4 CAN-P
Vehicle CAN P

X035-5 CAN-N
Vehicle CAN N

Twist-CAN_CVH05-B

+CVH05-B BU 0.35 FLRY
544.0 1067960-XX-E

+CVH06-B VT 0.35 FLRY
502.0 1067960-XX-E

Twist-CAN_CVH05-B

Steering Angle and Stalk ECU
J

X180-2 CAN
CAN+

X180-3 CAN
CAN-

X180

[illegible]

X170-8 CAN-P (2) VH-CAN-H	 TWIST-CAN_CVH07-A	+CVH07-A	BN	0.13	MCIV
		324.0	1067964-XX-F		
X170-7 CAN-N (2) VH-CAN-L	 X170	+CVH08-A	WH	0.13	MCIV
		324.0	1067964-XX-F		

	X121-11 CAN-P VH-CAN-H		TWIST-CAN_CVH09-A	+CVH09-A BU 0.13 MCIV	357.0 1067964-XX-F
N	X121-12 CAN-N VH-CAN-L		N		+CVH10-A GN 0.13 MCIV

Timing diagram for CAN bus signals. The diagram shows two CAN signals, X535-2 CAN HIGH and X535-3 CAN LOW, and a TWIST-CAN_CVH05-A signal. The X535-2 CAN HIGH signal is a square wave with a period of 1067960 ns and a high level of 385.0. The X535-3 CAN LOW signal is a square wave with a period of 1067960 ns and a low level of 385.0. The TWIST-CAN_CVH05-A signal is a square wave with a period of 1067960 ns and a high level of 385.0. The diagram also shows a timing diagram for the CAN bus signals, with a period of 1067960 ns and a high level of 385.0.

[illegible]

X057-7 CAN-P
Vehicle CAN P

X057-8 CAN-N
Vehicle CAN N

X057-9 CAN-P
Vehicle CAN P

X057-10 CAN-N
Vehicle CAN N

X057-11 CAN-P
Vehicle CAN P

X057-12 CAN-N
Vehicle CAN N

X055-34 CAN-P
Vehicle CAN P

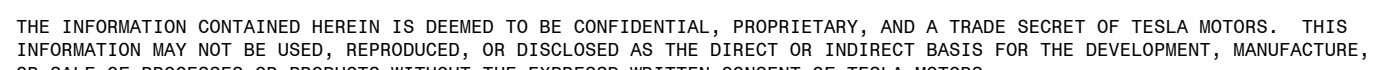
X055-35 CAN-N
Vehicle CAN N

X051-26 CAN-P
Vehicle CAN P

X051-25 CAN-N
Vehicle CAN N

(T) 720Ω

X098-16 CAN PT-CAN-H	
X098-15 CAN PT-CAN-L	



MATERIAL AS SPECIFIED	FINISHING AS SPECIFIED	SCALE NONE
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PART NUMBER	REV	SHEET	SIZE
	3	13 of 29	A0

Body Controller Left
A,D,J,W,K

- X033-22 Ground Return
Window Front Hall Ground Return
- X033-25 Half-Bridge
Window Front Motor Up
- X033-26 Half-Bridge
Window Front Motor Down
- X033-20 Hall Sensor In
Window Front Hall A
- X033-21 Hall Sensor In
Window Front Hall B
- X033-9 Digital In - Wake
Door Front Latch Open Puddle LED
- X033-33 Digital In
Door Front Latch Endstop Switch
- X033-24 Half-Bridge
Door Front Latch Release
- X033-23 Half-Bridge
Door Front Latch Reset
- X033-15 Analog In
Window Switchpack FL
- X033-31 Analog In
Window Switchpack RR
- X033-16 Analog In
Window Switchpack RL
- X033-30 Analog In
Window Switchpack FR
- X033-6 High-Side Drive
Door Front Window Switch LED
- X033-32 Analog In - Wake
Door Front Interior Handle Switch
- X033-2 High-Side Drive
Door Front Interior Handle Switch LED
- X033-17 PWM In - Wake
Door Front Exterior Handle Sensor
- X033-3 High-Side Drive
Door Front Exterior Handle Sensor 5v
- X033-28 Half-Bridge
Mirror Tilt Up Down
- X033-14 Half-Bridge
Mirror Tilt Common
- X033-13 Half-Bridge
Mirror Tilt Left Right
- X033-18 High-Side Drive
Mirror Heat
- X033-1 Vref Output
Mirror Dim
- X033-10 Half-Bridge
Mirror Fold
- X033-11 Half-Bridge
Mirror Unfold
- X033-4 Vref Output
Mirror Tilt Position 5V
- X033-35 Analog In
Mirror Tilt Position Up Down
- X033-34 Analog In
Mirror Tilt Position Left Right
- X033-29 High-Side Drive
Door Front Map Pocket LED
- X033-27 Ground Return
Shared Door Ground Return

TWIST_DCL01-A

Puddle LED Front Left
D



- DCL22-A BN 0.35 FLRY
1618.0 1067957-XX-E
- DCL23-A WH 0.50 FLRY
1618.0 1067957-XX-E
- DCL24-A GY 0.50 FLRY
1618.0 1067957-XX-E

- DCL31-B GN 0.13 MCIV
LHD 1874.0 1067957-XX-E
- DCL32-A VT 0.13 MCIV
LHD 1852.0 1067957-XX-E
- DCL33-A BN 0.13 MCIV
LHD 1852.0 1067957-XX-E
- DCL34-A WH 0.13 MCIV
LHD 1852.0 1067957-XX-E
- DCL35-A GY 0.13 MCIV
LHD 1852.0 1067957-XX-E

- DCL41-A WH 0.13 MCIV
2092.0 1067957-XX-E
- DCL42-A YE 0.13 MCIV
2092.0 1067957-XX-E

- DCL43-A BU 0.35 FLRY
1824.0 1067957-XX-E
- DCL44-A OG 0.35 FLRY
1824.0 1067957-XX-E

- DCL51-A VT 0.13 MCIV
PMIRR 740.0 1067957-XX-E
- DCL52-A YE 0.13 MCIV
PMIRR 740.0 1067957-XX-E
- DCL53-A WH 0.13 MCIV
PMIRR 740.0 1067957-XX-E

- DCL51-B VT 0.13 MCIV
BMIRR 1912.0 1067957-XX-E
- DCL52-B YE 0.13 MCIV
BMIRR 1912.0 1067957-XX-E
- DCL53-B WH 0.13 MCIV
BMIRR 1912.0 1067957-XX-E

- DCL55-A RD 0.35 FLRY
PMIRR 740.0 1067957-XX-E

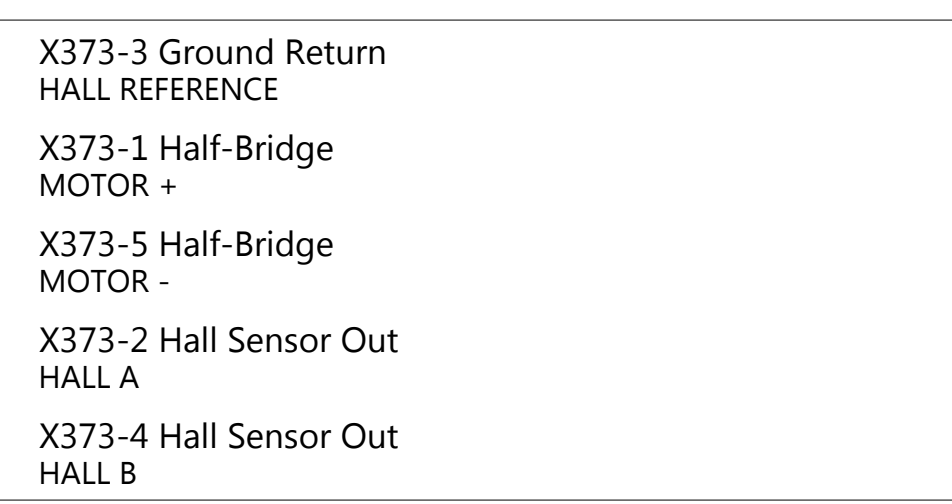
- DCL56-A BN 0.13 MCIV
PMIRR 740.0 1067957-XX-E

- DCL58-A GN 0.13 MCIV
PMIRR 740.0 1067957-XX-E
- DCL59-A BU 0.13 MCIV
PMIRR 740.0 1067957-XX-E
- DCL60-A VT 0.13 MCIV
PMIRR 740.0 1067957-XX-E
- DCL61-A YE 0.13 MCIV
PMIRR 740.0 1067957-XX-E
- DCL62-A GY 0.13 MCIV
PMIRR 740.0 1067957-XX-E

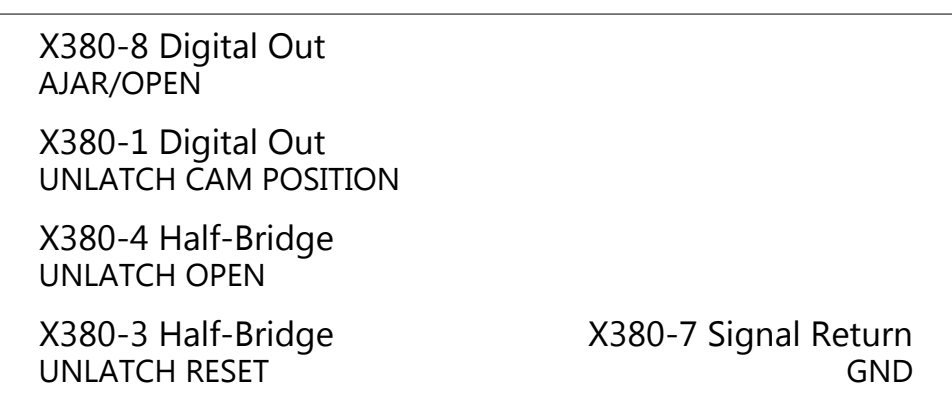
- DCL71-A RD 0.35 FLRY
PMIRR 1886.0 1067957-XX-E

- DCL80-I BK 1.50 FLRY
1339.0 1067957-XX-E

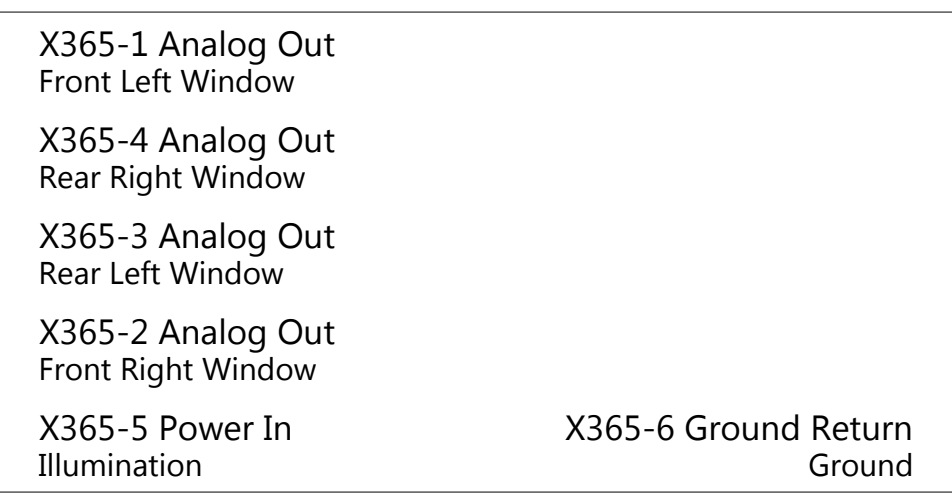
Window Lift Motor Front Left
D



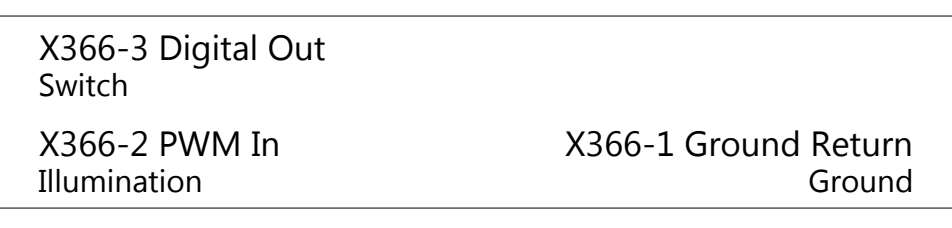
Latch Front Left
D



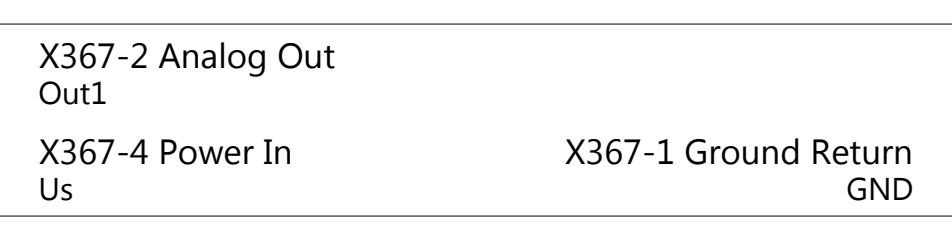
LHD
Window Switch Driver Front Left
D



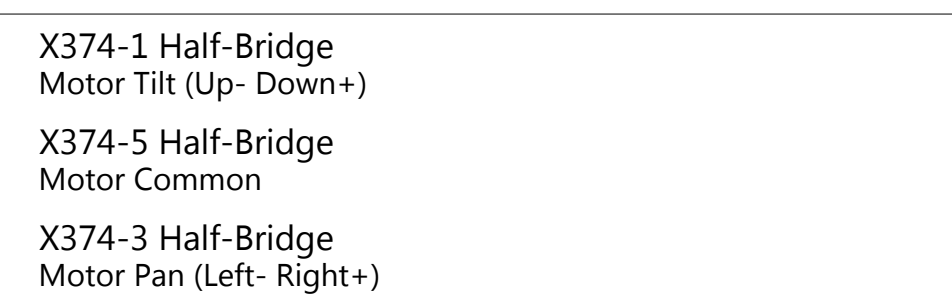
D



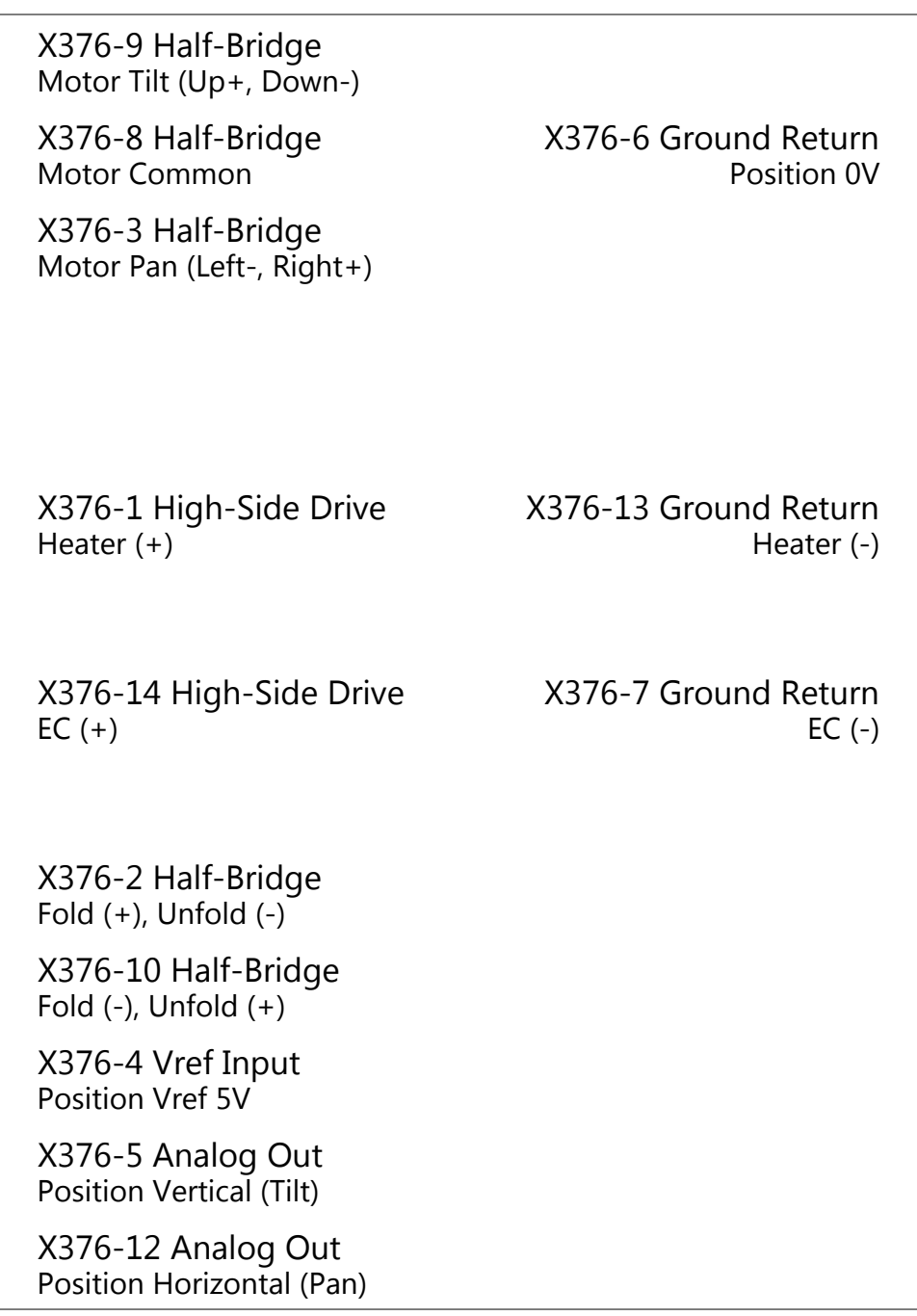
Exterior Open Switch Front Left
D



BMIRR
Mirror Left Base
D



PMIRR
Mirror Left Premium
D



PMIRR
Door Map Pocket LED Front Left
D



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DRAWN		CHECKED		APPROVED	
MATERIAL AS SPECIFIED		FINISHING AS SPECIFIED			SCALE NONE
PART NAME Door Front Left					
PART NUMBER			REV 3	SHEET 14 OF 29	SIZE A0

Body Controller Right
B,P,J,W

X053-7 Ground Return
Window Front Hall Ground Return
X053-35 Half-Bridge
Window Front Motor Up
X053-34 Half-Bridge
Window Front Motor Down
X053-9 Hall Sensor In
Window Front Hall A
X053-8 Hall Sensor In
Window Front Hall B

X053-20 Digital In - Wake
Door Front Latch Open Puddle LED
X053-27 Digital In
Door Front Latch Endstop Switch
X053-36 Half-Bridge
Door Front Latch Release
X053-37 Half-Bridge
Door Front Latch Reset

X053-30 Analog In
Window Switchpack FR
X053-1 High-Side Drive
Door Front Window Switch LED

X053-28 Analog In - Wake
Door Front Interior Handle Switch
X053-5 High-Side Drive
Door Front Interior Handle Switch LED

X053-12 PWM In - Wake
Door Front Exterior Handle Sensor
X053-4 Vref Output
Door Front Exterior Handle Sensor 5v

X053-32 Half-Bridge
Mirror Tilt Up Down
X053-15 Half-Bridge
Mirror Tilt Common
X053-16 Half-Bridge
Mirror Tilt Left Right

X053-11 High-Side Drive
Mirror Heat

X053-6 Vref Output
Mirror Dim

X053-19 Half-Bridge
Mirror Fold
X053-18 Half-Bridge
Mirror Unfold
X053-3 Vref Output
Mirror Tilt Position 5V
X053-25 Analog In
Mirror Tilt Position Up Down
X053-26 Analog In
Mirror Tilt Position Left Right

X053-31 High-Side Drive
Door Front Map Pocket LED

X053-33 Ground Return
Shared Door Ground Return

TWIST_DCR01-A

DCR21-A VT 0.35 FLY
2067.0 1067963-XX-E

DCR36-A YE 0.13 MCIV
1863.0 1067963-XX-E

DCRS1-A VT 0.13 MCIV
PMIRR 1916.0 1067963-XX-E

DCRS2-A BU 0.13 MCIV
PMIRR 1916.0 1067963-XX-E

DCRS3-A WH 0.13 MCIV
PMIRR 1916.0 1067963-XX-E

DCR12-A BK 0.13 MCIV
1821.0 1067963-XX-E
DCR01-A RD 1.50 FLY
1913.0 1067963-XX-E
DCR02-A OG 1.50 FLY
1913.0 1067963-XX-E
DCR13-A GN 0.13 MCIV
1821.0 1067963-XX-E
DCR14-A WH 0.13 MCIV
1821.0 1067963-XX-E

Puddle LED Front Right
P

DCR22-A BN 0.35 FLY
1624.0 1067963-XX-E
DCR23-A WH 0.50 FLY
1624.0 1067963-XX-E
DCR24-A GY 0.50 FLY
1624.0 1067963-XX-E

DCR41-A GY 0.13 MCIV
1763.0 1067963-XX-E
DCR42-A YE 0.13 MCIV
1763.0 1067963-XX-E

DCR43-A BU 0.35 FLY
1847.0 1067963-XX-E
DCR44-A GN 0.35 FLY
1824.0 1067963-XX-E

DCRS1-B VT 0.13 MCIV
BMIRR 1503.0 1067963-XX-E
DCRS2-B BU 0.13 MCIV
BMIRR 1503.0 1067963-XX-E
DCRS3-B WH 0.13 MCIV
BMIRR 1503.0 1067963-XX-E

DCR55-A RD 0.35 FLY
PMIRR 1916.0 1067963-XX-E

DCR56-A BN 0.13 MCIV
PMIRR 1916.0 1067963-XX-E

DCR58-A YE 0.13 MCIV
PMIRR 1916.0 1067963-XX-E

DCR59-A BN 0.13 MCIV
PMIRR 1916.0 1067963-XX-E

DCR60-A VT 0.13 MCIV
PMIRR 1916.0 1067963-XX-E

DCR61-A BU 0.13 MCIV
PMIRR 1916.0 1067963-XX-E

DCR62-A GY 0.13 MCIV
PMIRR 1916.0 1067963-XX-E

DCR71-A RD 0.35 FLY
PMIRR 158.0 1067963-XX-E

DCR80-I BK 1.50 FLY
1339.0 1067963-XX-E

TWIST_DCR01-A

X403

X410

X399

X396

X397

X404

X406

X400

Window Lift Motor Front Right
P

X403-3 Ground Return
HALL REFERENCE
X403-1 Half-Bridge
MOTOR +
X403-5 Half-Bridge
MOTOR -
X403-2 Hall Sensor Out
HALL A
X403-4 Hall Sensor Out
HALL B

Latch Front Right
P

X410-8 Digital Out
AJAR/OPEN
X410-1 Digital Out
UNLATCH CAM POSITION
X410-4 Half-Bridge
UNLATCH OPEN
X410-3 Half-Bridge
UNLATCH RESET

X410-7 Signal Return
GND

LHD
Window Switch Pass Front Right
P

X399-2 Analog Out
Switch
X399-1 Power In
LED

X399-3 Ground Return
Ground

Interior Open Switch Front Right
P

X396-3 Digital Out
Switch
X396-2 PWM In
Illumination

X396-1 Ground Return
Ground

Exterior Open Switch Front Right
P

X397-2 Analog Out
Out1
X397-4 Power In
Us

X397-1 Ground Return
GND

BMIRR
Mirror Right Base
P

X404-1 Half-Bridge
Motor Tilt (Up- Down+)
X404-5 Half-Bridge
Motor Common
X404-3 Half-Bridge
Motor Pan (Left- Right+)

PMIRR
Mirror Right Premium
P

X406-9 Half-Bridge
Motor Tilt (Up+, Down-)
X406-8 Half-Bridge
Motor Common
X406-3 Half-Bridge
Motor Pan (Left-, Right+)

X406-6 Ground Return
Position DV

X406-1 High-Side Drive
Heater (+)

X406-13 Ground Return
Heater (-)

X406-14 High-Side Drive
EC (+)

X406-7 Ground Return
EC (-)

X406-2 Half-Bridge
Fold (+), Unfold (-)
X406-10 Half-Bridge
Fold (-), Unfold (+)
X406-4 Vref Input
Position Vref 5V
X406-5 Analog Out
Position Vertical (Tilt)
X406-12 Analog Out
Position Horizontal (Pan)

PMIRR
Door Map Pocket LED Front Right
P

X400-1 PWM In
Power

X400-2 Ground Return
Ground

DCR80-A BK 0.35 FLY
PMIRR 583.0 1067963-XX-E

DCR80-D BK 0.35 FLY
PMIRR 710.0 1067963-XX-E

DCR80-B BK 0.35 FLY
PMIRR 710.0 1067963-XX-E

DCR80-C BK 0.35 FLY
PMIRR 710.0 1067963-XX-E

DCR80-E BK 0.35 FLY
1105.0 1067963-XX-E

DCR80-F BK 0.35 FLY
1105.0 1067963-XX-E

DCR80-G BK 0.35 FLY
783.0 1067963-XX-E

DCR80-H BK 0.35 FLY
1311.0 1067963-XX-E

DCR80-I BK 0.35 FLY
1339.0 1067963-XX-E

DCR80-J BK 0.35 FLY
1339.0 1067963-XX-E

DCR80-K BK 0.35 FLY
1339.0 1067963-XX-E

DCR80-L BK 0.35 FLY
1339.0 1067963-XX-E

DCR80-M BK 0.35 FLY
1339.0 1067963-XX-E

DCR80-N BK 0.35 FLY
1339.0 1067963-XX-E

DCR80-O BK 0.35 FLY
1339.0 1067963-XX-E

DCR80-P BK 0.35 FLY
1339.0 1067963-XX-E

DCR80-Q BK 0.35 FLY
1339.0 1067963-XX-E

DCR80-R BK 0.35 FLY
1339.0 1067963-XX-E

DCR80-S BK 0.35 FLY
1339.0 1067963-XX-E

DCR80-T BK 0.35 FLY
1339.0 1067963-XX-E

DCR80-U BK 0.35 FLY
1339.0 1067963-XX-E

DCR80-V BK 0.35 FLY
1339.0 1067963-XX-E

DCR80-W BK 0.35 FLY
1339.0 1067963-XX-E

DCR80-X BK 0.35 FLY
1339.0 1067963-XX-E

DCR80-Y BK 0.35 FLY
1339.0 1067963-XX-E

DCR80-Z BK 0.35 FLY
1339.0 1067963-XX-E

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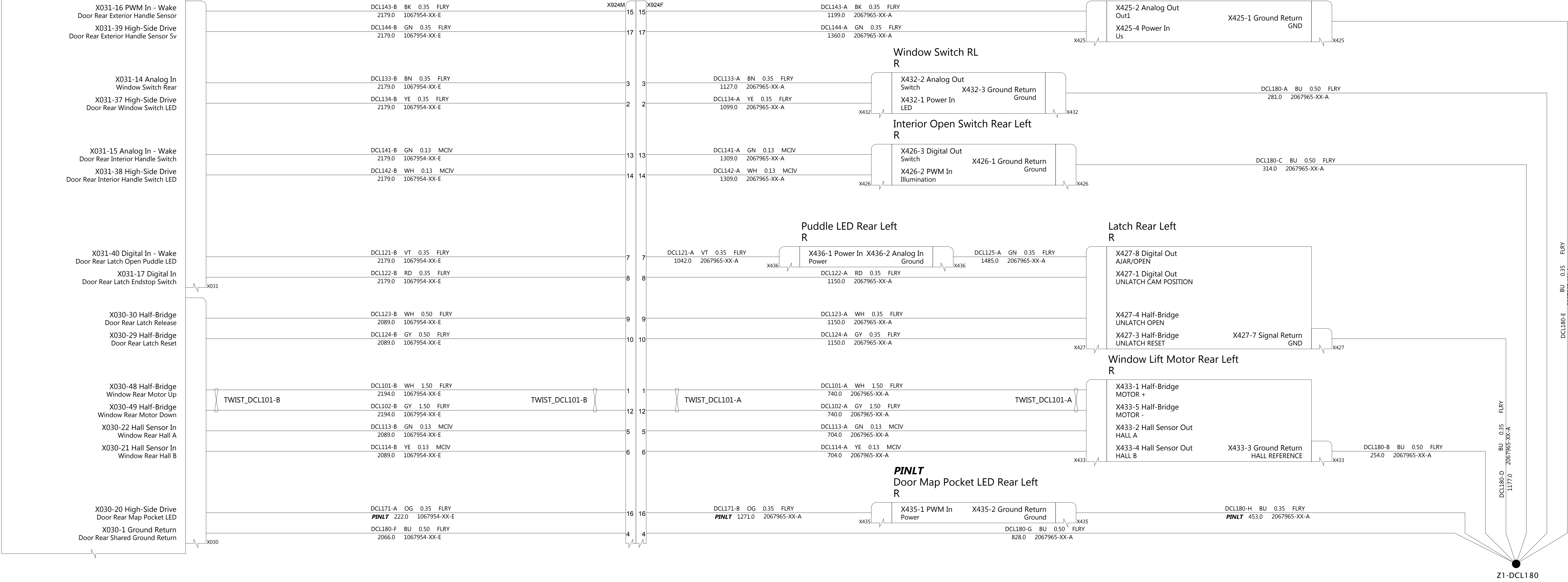
DRAWN	CHECKED	APPROVED

MATERIAL	FINISHING	SCALE
AS SPECIFIED	AS SPECIFIED	NONE

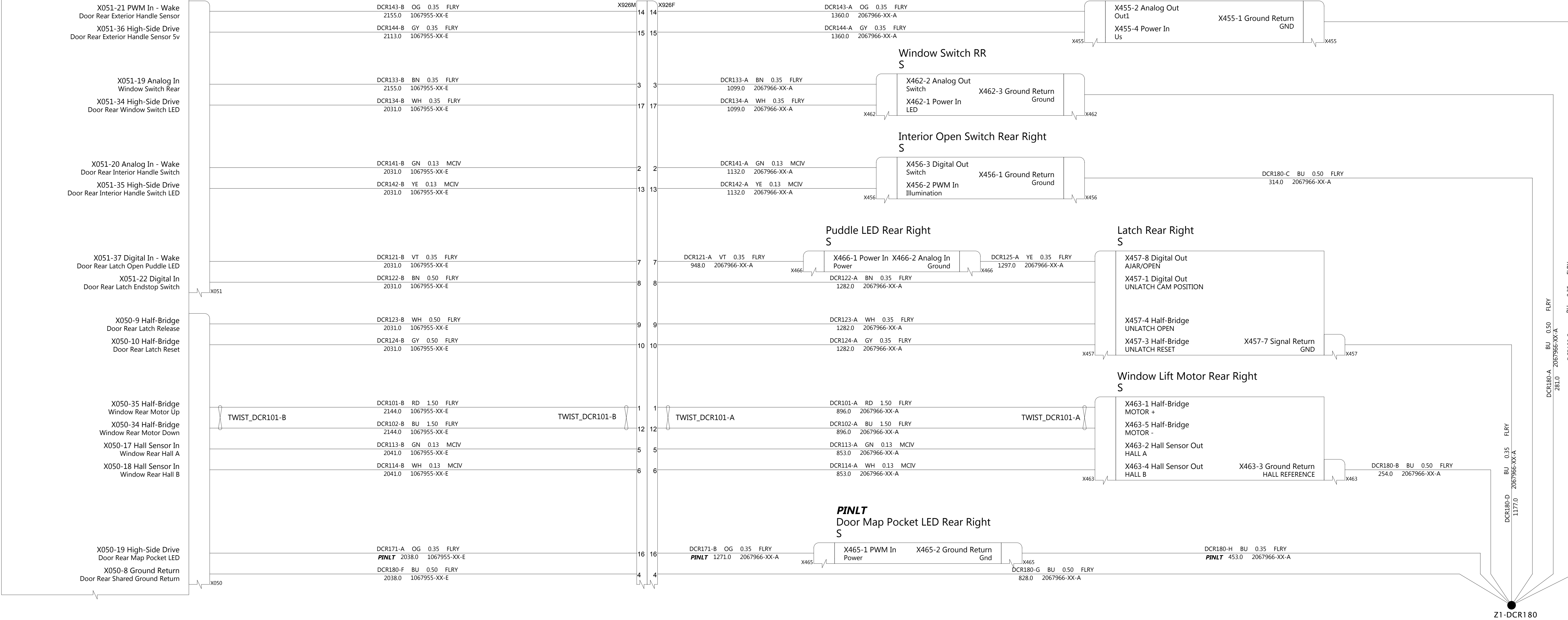
PART NAME	REV	SHEET	SIZE
Door Front Right	3	15 of 29	A0

PART NUMBER	REV	SHEET	SIZE
	3	15 of 29	A0

Body Controller Left
A,D,J,W,K



Body Controller Right
B,P,J,W



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DRAWN		CHECKED		APPROVED	
MATERIAL AS SPECIFIED		FINISHING AS SPECIFIED		SCALE NONE	
PART NAME Doors Rear					
PART NUMBER		REV 3	SHEET 16 of 29		SIZE A0

X093-2 CAN
Vehicle-CAN-

X093-12 CAN
Vehicle-CAN+

X093-4 Analog Out
HVIL out

X093-10 LIN
Oil Pump Status

X093-26 Analog Out
Resolver Excitation +

X093-16 Analog Out
Resolver Excitation-

X093-17 Analog In
Resolver Sine +

X093-7 Analog In
Resolver Sine -

X093-8 Analog In
Resolver Cosine +

X093-27 Analog In
Resolver Cosine -

X093-28 Analog In
Stator Temp +

X093-18 Analog In
Stator temp -

X090-15 Vref Output
Accel 1 +5V

X090-25 Analog In
Accel 1 signal

X090-6 Ground Return
Accel 1 ground

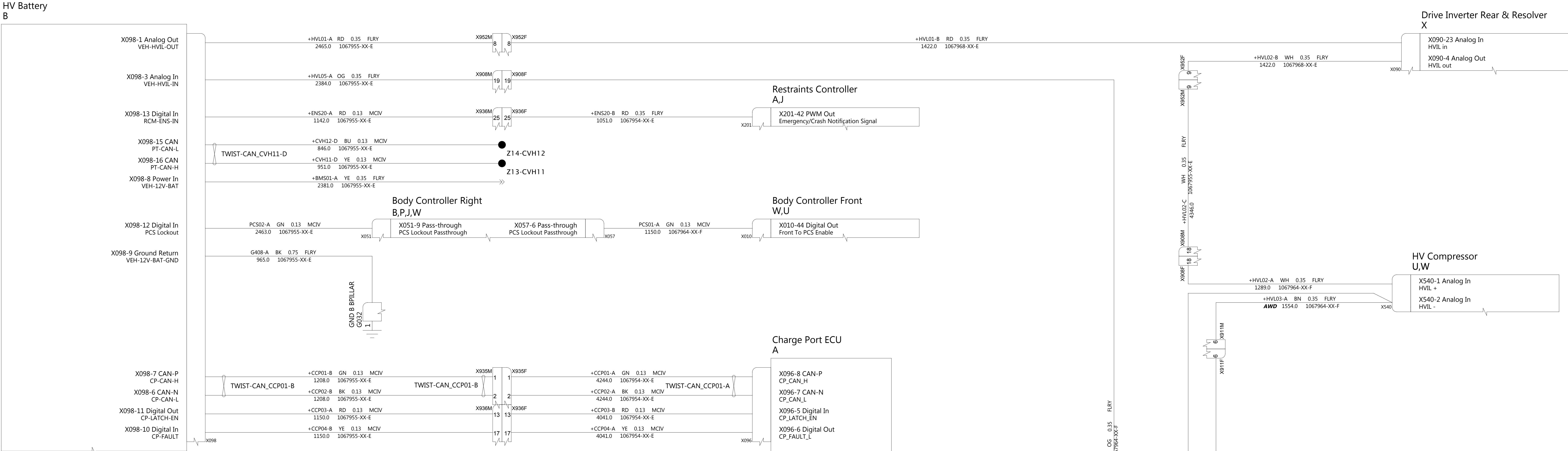
X090-14 Vref Output
Accel 2 +5V

X090-24 Analog In
Accel 2 signal

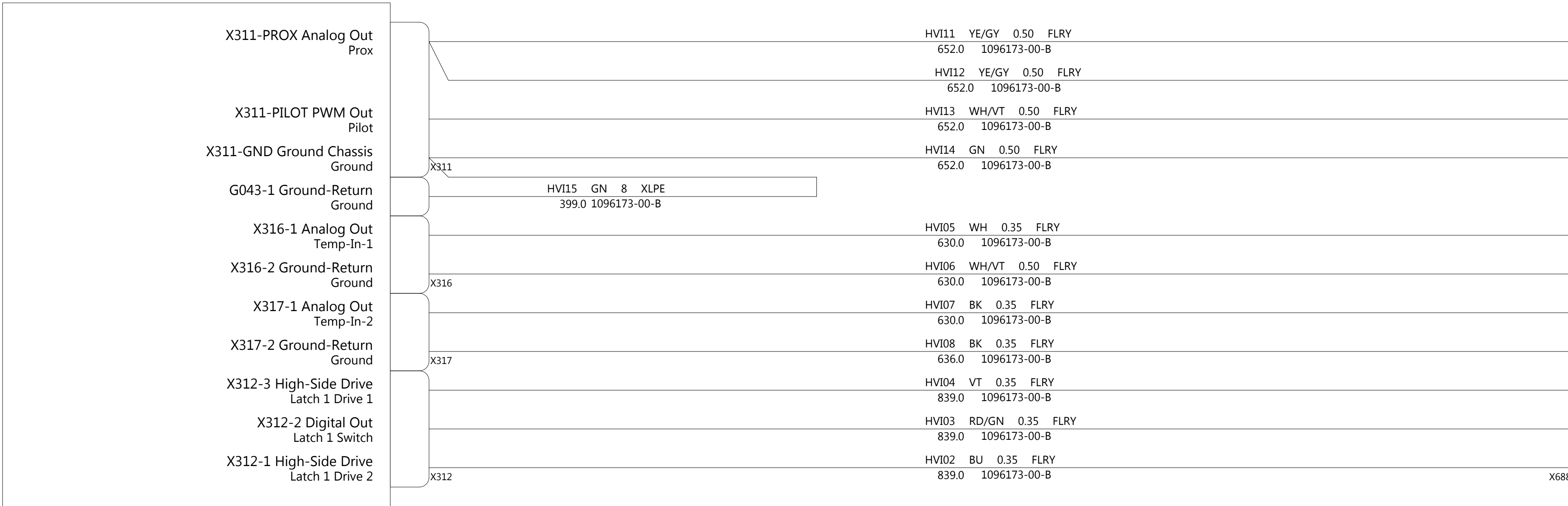
X090-5 Ground Return
Accel 2 ground



J K



Charge Port Inlet, SAE E



Charge Port Door



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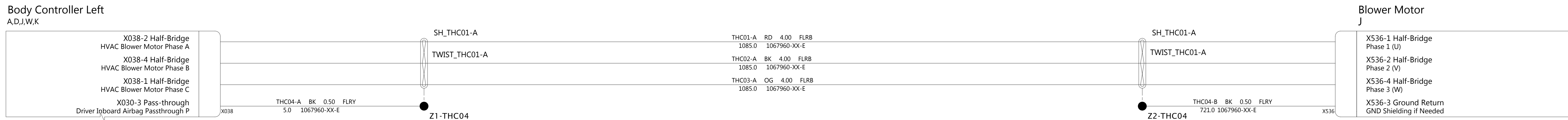
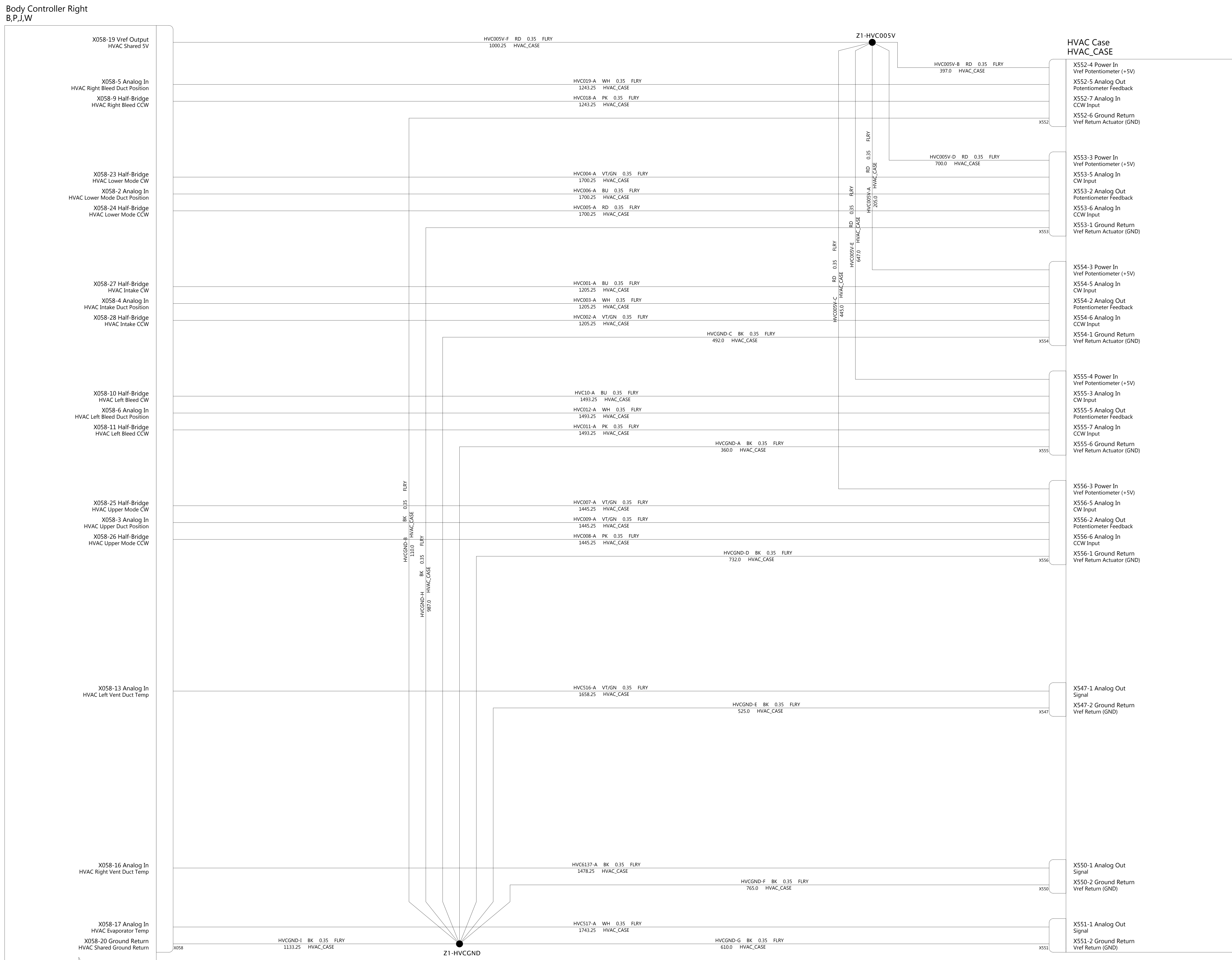
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DRAWN	CHECKED	APPROVED

MATERIAL	FINISHING	SCALE
AS SPECIFIED	AS SPECIFIED	NONE

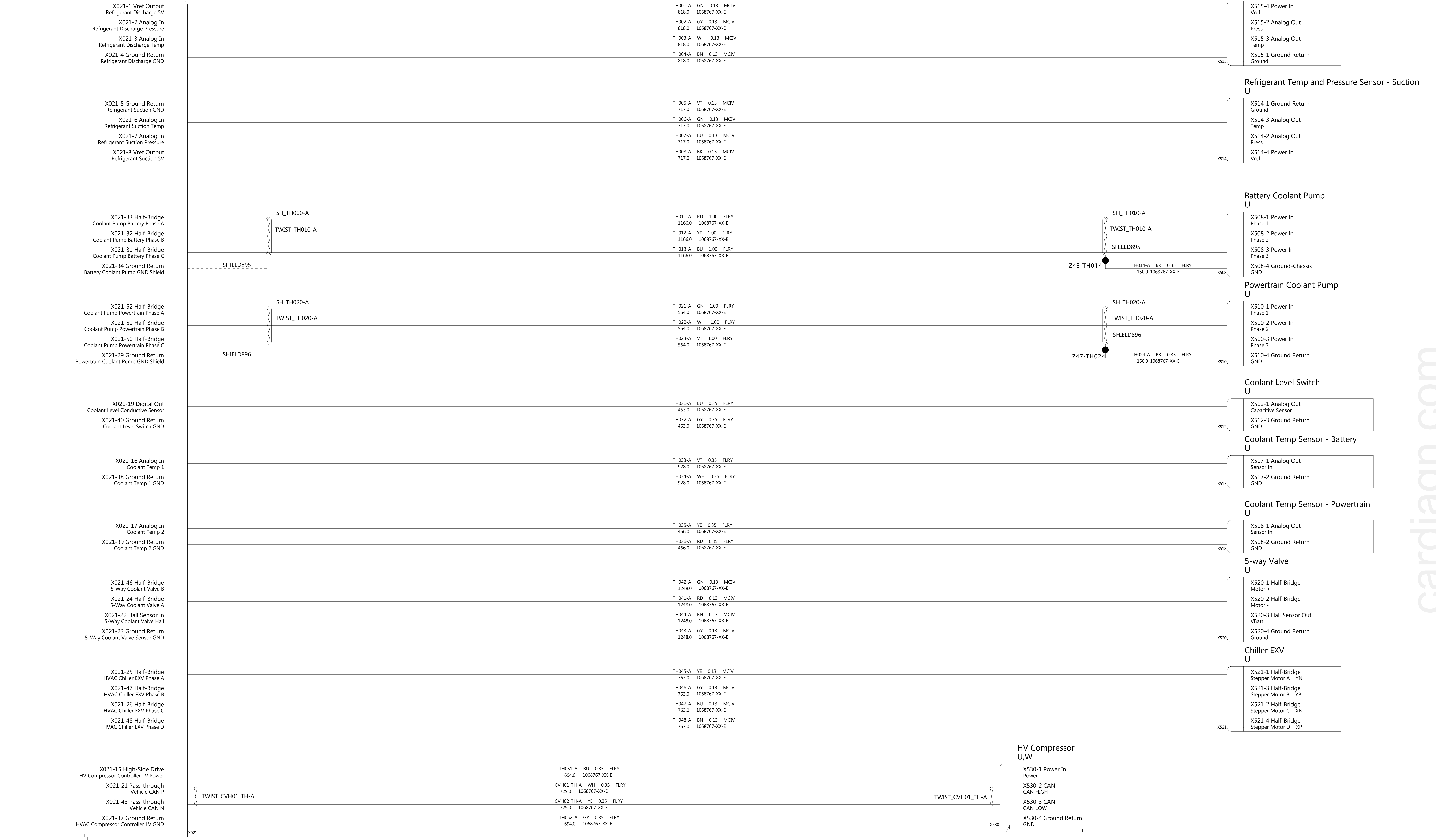
PART NAME
HV Battery and HVIL

PART NUMBER	REV	SHEET	SIZE
	3	20 of 30	A0



			
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DRAWN	CHECKED	APPROVED	
MATERIAL AS SPECIFIED		FINISHING AS SPECIFIED	SCALE NONE
PART NAME HVAC Case Subassembly			
PART NUMBER	REV	SHEET	SIZE
	3	21 OF 29	A0

Body Controller Front
W,U



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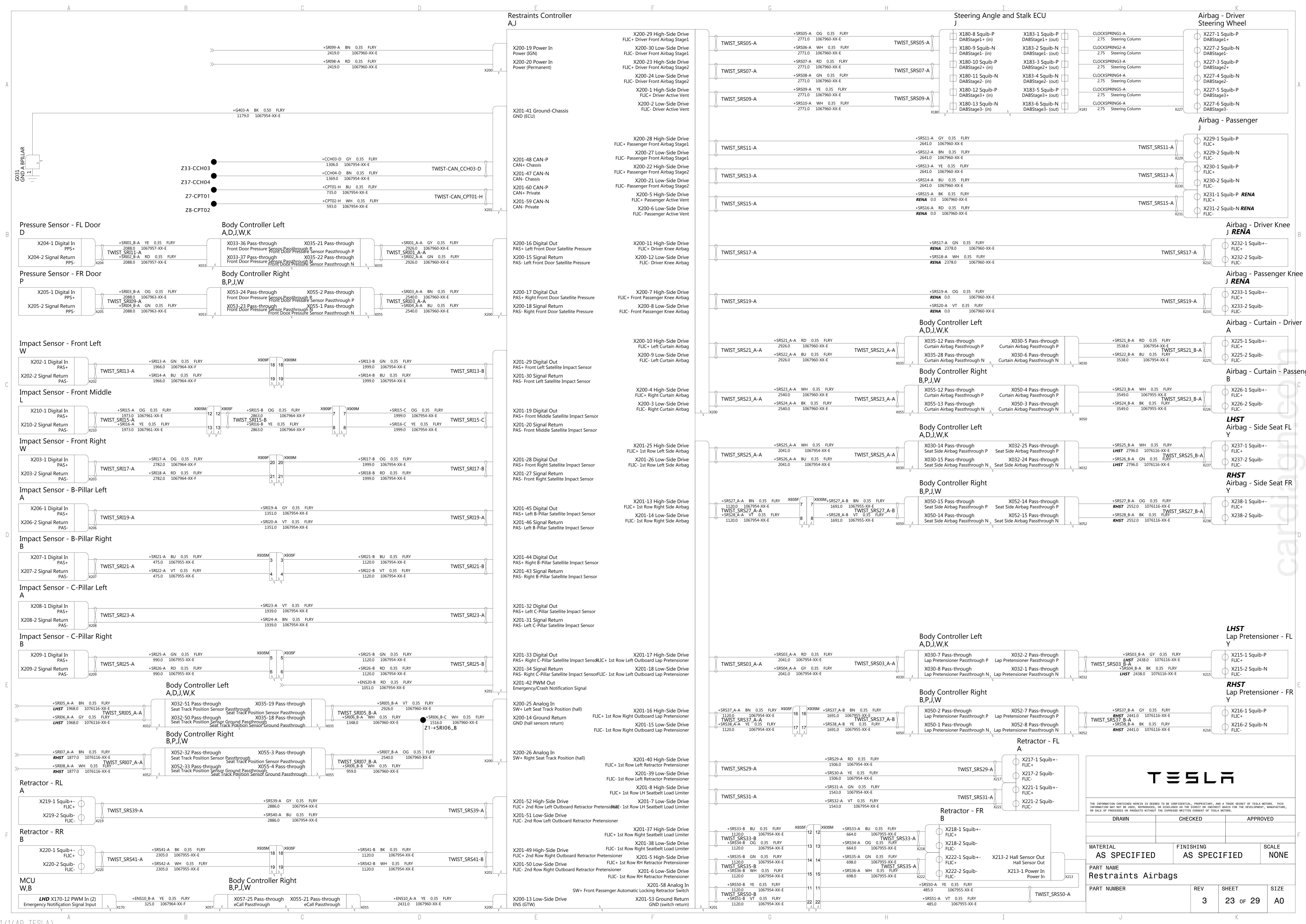
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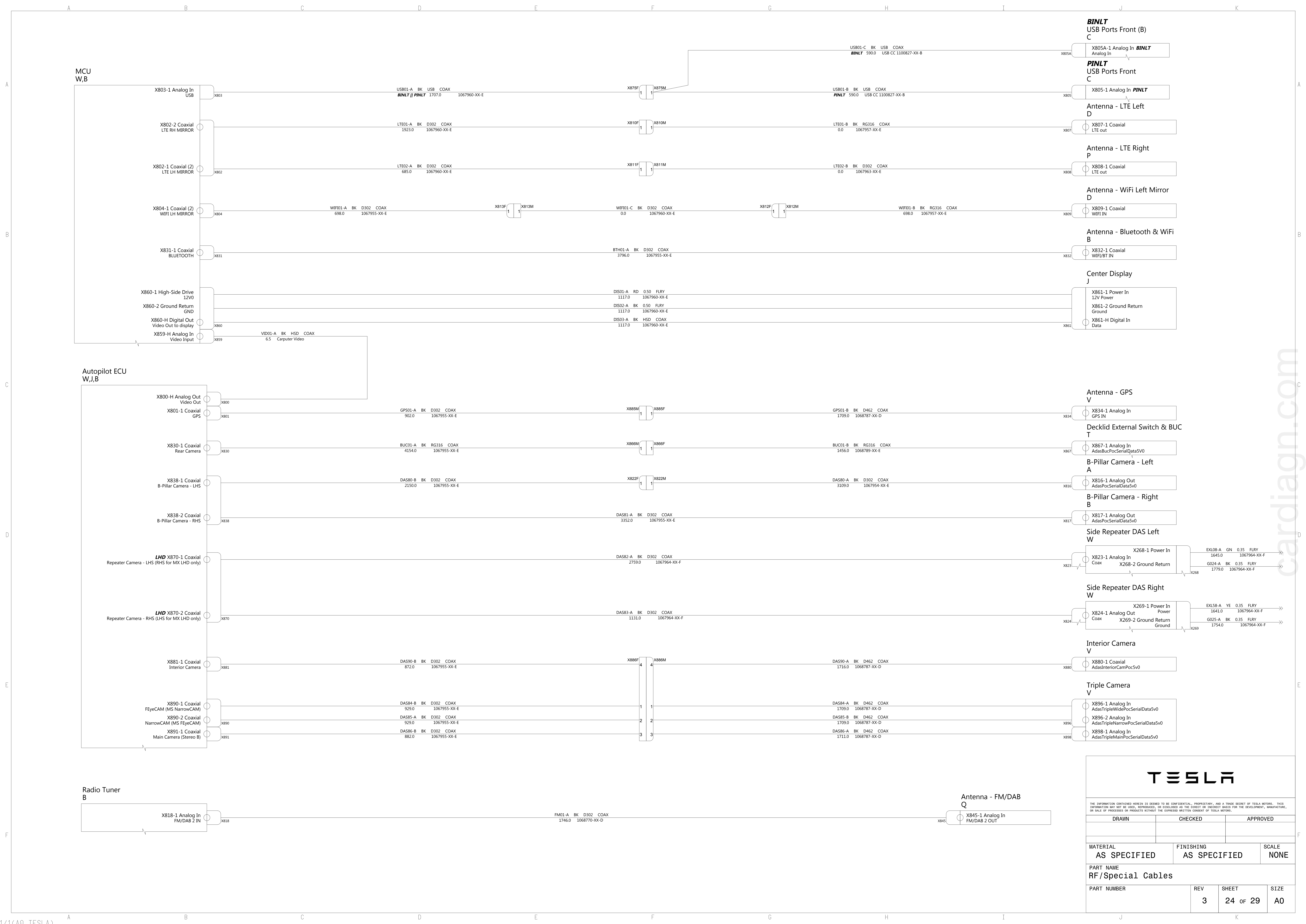
DRAWN	CHECKED	APPROVED

MATERIAL	FINISHING	SCALE
AS SPECIFIED	AS SPECIFIED	NONE

PART NAME
HVAC Thermal Subassembly

PART NUMBER	REV	SHEET	SIZE
	3	22 of 29	A0





Body Controller Left
A,D,J,W,K

X032-49 High-Side Drive
Lumbar ECU
X032-18 UN
Lumbar ECU LIN

X032-9 Half-Bridge
Seat Front Backrest Up
X032-10 Half-Bridge
Seat Front Backrest Down
X032-4 Hall Sensor In
Seat Front Backrest Hall

X032-31 High-Side Drive
Seat Front Heat Pad Backrest
X032-26 Ground Return
Heat Pad Backrest Ground Return

X032-32 High-Side Drive
Seat Front Heat Pad Cushion
X032-48 Ground Return
Heat Pad Cushion Ground Return
X032-22 Analog In
Seat Front Thermistor Cushion

X032-34 Half-Bridge
Seat Front Lift Down
X032-33 Half-Bridge
Seat Front Lift Up
X032-3 Hall Sensor In
Seat Front Lift Hall

X032-6 Ground Return
Seat Front Shared Ground Return

X032-51 Pass-through
Seat Track Position Sensor Passthrough
X032-50 Pass-through
Seat Track Position Sensor Ground Passthrough

X032-12 Half-Bridge
Seat Front Track Forward
X032-13 Half-Bridge
Seat Front Track Reverse
X032-5 Hall Sensor In
Seat Front Track Hall

X032-42 Analog In
Seat Front Lumbar Switch
X032-44 Analog In
Seat Front Track Backrest Switch
X032-43 Analog In
Seat Front Lift Switch

X032-41 Analog In
Seat Driver Occupancy Sensor

X032-27 Analog In
Seat Front Buckle Sensor

X032-36 Half-Bridge
Seat Front Tilt Up
X032-37 Half-Bridge
Seat Front Tilt Down
X032-47 Hall Sensor In
Seat Front Tilt Hall

SCL01-A RD 0.35 FLRY
LHST && PREMST 2472.0 1076116-XX-E
SCL02-A BN 0.35 FLRY
LHST && PREMST 2472.0 1076116-XX-E

SCL09-A YE 0.75 FLRY
LHST && PREMST 2537.0 1076116-XX-E
SCL10-A BK 0.75 FLRY
LHST && PREMST 2537.0 1076116-XX-E
SCL11-A OG 0.35 FLRY
LHST && PREMST 2537.0 1076116-XX-E

SCL13-A RD 0.50 FLRY
LHST 1746.0 1076116-XX-E
SCL14-A BU 0.50 FLRY
LHST 1746.0 1076116-XX-E

SCL15-A YE 0.50 FLRY
LHST 1766.0 1076116-XX-E
SCL16-A GN 0.50 FLRY
LHST 1766.0 1076116-XX-E
SCL17-A GY 0.35 FLRY
LHST 1766.0 1076116-XX-E

SCL18-A GN 0.75 FLRY
LHST 1841.0 1076116-XX-E
SCL19-A WH 0.75 FLRY
LHST 1841.0 1076116-XX-E
SCL20-A VT 0.35 FLRY
LHST 1841.0 1076116-XX-E

SCL80-J BK 0.35 FLRY
LHST 1673.0 1076116-XX-E

+SRI05_A-A BN 0.35 FLRY
LHST 1968.0 1076116-XX-E
+SRI06_A-A GY 0.35 FLRY
LHST 1968.0 1076116-XX-E

SCL23-A BU 1.00 FLRY
LHST && PREMST 1939.0 1076116-XX-E
SCL24-A GY 1.00 FLRY
LHST && PREMST 1939.0 1076116-XX-E
SCL25-A WH 0.13 MCV
LHST && PREMST 1939.0 1076116-XX-E

SCL26-A RD 0.13 MCV
LHST && PREMST 2224.0 1076116-XX-E
SCL27-A YE 0.35 FLRY
LHST && PREMST 2224.0 1076116-XX-E
SCL28-A VT 0.13 MCV
LHST 2224.0 1076116-XX-E

SCL29-A OG 0.35 FLRY
DRIVR && LHST 1728.0 1076116-XX-E

SCL32-A YE 0.35 FLRY
LHST 2158.0 1076116-XX-E

SCL40-A YE 0.75 FLRY
LHST && PREMST 1791.0 1076116-XX-E
SCL41-A VT 0.75 FLRY
LHST && PREMST 1791.0 1076116-XX-E
SCL42-A OG 0.35 FLRY
LHST && PREMST 1791.0 1076116-XX-E

PREMST
Lumbar
Y

X619-1 Power In
+12V Power
X619-6 LIN
LIN

X619-3 Pass-through
Power to Pump
X619-4 Pass-through
Pump Ground
X619-2 Ground Return
Module Ground

SCL03-A OG 0.35 FLRY
LHST && PREMST 301.0 1076116-XX-E
SCL04-A BU 0.35 FLRY
LHST && PREMST 301.0 1076116-XX-E

PREMST
Lumbar
Y

X620-1 Power In
Power to Pump
X620-3 Ground Return
Ground

SCL80-I BK 0.35 FLRY
LHST && PREMST 892.0 1076116-XX-E

PREMST
Seat Backrest Pitch Front
Y

X613-1 Power In
Power (U+ = SEAT FORWARD, CW)
X613-3 Power In
Power (U+ = SEAT REARWARD, CCW)
X613-2 PWM Out
Hall Effect

X613-4 Ground Return
Hall Effect

Heat Pad Backrest Front
Y

X616-2 Power In
Heat +12V
X616-1 Ground Return
Heat GND

Heat Pad Cushion Front
Y

X617-2 Power In
Heater Supply
X617-1 Ground Return
Heater GND
X617-3 Analog In
NTC +

X617-4 Ground Return
NTC - Supply (GND)

SCL80-A BK 0.35 FLRY
LHST 181.0 1076116-XX-E

Lift Motor
Y

X618-3 Half-Bridge
Down
X618-1 Half-Bridge
Up
X618-2 Hall Sensor Out
Hall effect signal

X618-4 Ground Return
Hall effect ground

SCL80-F BK 0.35 FLRY
LHST 193.0 1076116-XX-E

Seat Track Position Sensor
Y

X624-2 Analog Out
Signal
X624-1 Ground Return
Return

PREMST
Track Motor
Y

X614-1 Power In
Fore
X614-5 Power In
Aft
X614-4 Hall Sensor Out
Hall effect signal

X614-2 Ground Return
Hall effect ground

SCL80-C BK 0.35 FLRY
LHST && PREMST 281.0 1076116-XX-E

Seat Switchpack Front Left
YL

X631-3 Analog Out
Lumbar
X631-2 Analog Out
Track/Backrest
X631-1 Analog Out
Lift/Tilt

LHST && PREMST

LHST && PREMST

LHST && PREMST

LHST && PREMST

LHST && PREMST

LHST && PREMST

LHST && PREMST

LHST && PREMST

LHST && PREMST

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LHST && PREMST

LHST && PREMST

LHST && PREMST

LHST && PREMST

LHST && PREMST

DRIVR
Occupancy Sensor Front
Y

X622-1 Analog Out
Signal

X622-2 Ground Return
Return

LHST
Seatbelt Buckle Switch Front Left
Y

X610-1 Power In
Power In

X610-2 Ground Return
Ground Return

PREMST
Tilt Motor
Y

X621-1 Half-Bridge
Up
X621-3 Half-Bridge
Down
X621-4 Hall Sensor Out
Hall effect signal

X621-2 Ground Return
Hall effect ground

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DRAWN	CHECKED	APPROVED

MATERIAL	FINISHING	SCALE
AS SPECIFIED	AS SPECIFIED	NONE

PART NAME
Seats Front Left

PART NUMBER	REV	SHEET	SIZE
	3	25 of 29	A0

Body Controller Right
B,P,J,W

X052-34 High-Side Drive Lumbar ECU
X052-21 LIN Lumbar ECU LIN

X052-30 Half-Bridge Seat Front Backrest Up
X052-29 Half-Bridge Seat Front Backrest Down
X052-5 Hall Sensor In Seat Front Backrest Hall

X052-52 High-Side Drive Seat Front Heat Pad Backrest
X052-13 Ground Return Heat Pad Backrest Ground Return

X052-51 High-Side Drive Seat Front Heat Pad Cushion
X052-35 Ground Return Heat Pad Cushion Ground Return
X052-17 Analog In Seat Front Thermistor Cushion

X052-49 Half-Bridge Seat Front Lift Down
X052-50 Half-Bridge Seat Front Lift Up
X052-6 Hall Sensor In Seat Front Lift Hall

X052-3 Ground Return Seat Front Shared Ground Return

X052-32 Pass-through Seat Track Position Sensor Passthrough
X052-33 Pass-through Seat Track Position Sensor Ground Passthrough

X052-27 Half-Bridge Seat Front Track Forward
X052-26 Half-Bridge Seat Front Track Reverse
X052-4 Hall Sensor In Seat Front Track Hall

X052-41 Analog In Seat Front Lumbar Switch
X052-39 Analog In Seat Front Track Backrest Switch
X052-40 Analog In Seat Front Lift Switch

X052-42 Analog In Seat Driver Occupancy Sensor

X052-20 High-Side Drive Occupant Classification ECU
X052-44 CAN-P Chassis CAN P
X052-45 CAN-N Chassis CAN N
X052-22 Ground Return Occupanct Classification ECU Ground Return

X052-12 Analog In Seat Front Buckle Sensor

X052-47 Half-Bridge Seat Front Tilt Up
X052-46 Half-Bridge Seat Front Tilt Down
X052-36 Hall Sensor In Seat Front Tilt Hall

SCR01-A RD 0.35 FLRY
PREMST && RHST 2475.0 1076116-XX-E
SCR02-A BN 0.35 FLRY
PREMST && RHST 2475.0 1076116-XX-E

SCR09-A YE 0.75 FLRY
PREMST && RHST 2540.0 1076116-XX-E
SCR10-A BK 0.75 FLRY
PREMST && RHST 2540.0 1076116-XX-E
SCR11-A OG 0.35 FLRY
PREMST && RHST 2540.0 1076116-XX-E

SCR13-A RD 0.50 FLRY
RHST 1749.0 1076116-XX-E
SCR14-A BU 0.50 FLRY
RHST 1749.0 1076116-XX-E

SCR15-A YE 0.50 FLRY
RHST 1769.0 1076116-XX-E
SCR16-A GN 0.50 FLRY
RHST 1769.0 1076116-XX-E
SCR17-A GY 0.35 FLRY
RHST 1769.0 1076116-XX-E

SCR18-A GN 0.75 FLRY
RHST 1844.0 1076116-XX-E
SCR19-A WH 0.75 FLRY
RHST 1844.0 1076116-XX-E
SCR20-A VT 0.35 FLRY
RHST 1844.0 1076116-XX-E

SCR80-C BK 0.35 FLRY
RHST 1673.0 1076116-XX-E

+SR107_A-A BN 0.35 FLRY
RHST 1877.0 1076116-XX-E
+SR108_A-A WH 0.35 FLRY
RHST 1877.0 1076116-XX-E

SCR23-A BU 1.00 FLRY
PREMST && RHST 1942.0 1076116-XX-E
SCR24-A GY 1.00 FLRY
PREMST && RHST 1942.0 1076116-XX-E
SCR25-A WH 0.13 MCV
PREMST && RHST 1942.0 1076116-XX-E

SCR26-A RD 0.13 MCV
PREMST && RHST 2227.0 1076116-XX-E
SCR27-A YE 0.35 FLRY
PREMST && RHST 2227.0 1076116-XX-E
SCR28-A VT 0.13 MCV
RHST 2227.0 1076116-XX-E

SCR29-A OG 0.35 FLRY
DRIVR && RHST 1731.0 1076116-XX-E

SCR30-A BU 0.13 MCV
PASSN && RHST 1721.0 1076116-XX-E
+CCH05_FRS-A GN 0.13 MCV
PASSN && RHST 1808.0 1076116-XX-E
+CCH06_FRS-A YE 0.13 MCV
PASSN && RHST 1808.0 1076116-XX-E
SCR31-A YE 0.13 MCV
PASSN && RHST 1721.0 1076116-XX-E

OCS Sandwich

Upper Electrode-1

Lower Electrode-2

Upper Electrode
80.0 112134-00-B

Lower Electrode
80.0 112134-00-B

OCS Self-Capacitance

Cushion-1

Seatback-2

Cushion
245.0 1098785-00-A

Seatback
245.0 1098785-00-A

SCR32-A YE 0.35 FLRY
RHST 2164.0 1076116-XX-E

SCR40-A YE 0.75 FLRY
PREMST && RHST 1794.0 1076116-XX-E
SCR41-A VT 0.75 FLRY
PREMST && RHST 1794.0 1076116-XX-E
SCR42-A OG 0.35 FLRY
PREMST && RHST 1794.0 1076116-XX-E

PREMST
Lumbar
Y

X619-1 Power In +12V Power
X619-6 LIN LIN
X619-3 Pass-through Power to Pump
X619-4 Pass-through Pump Ground
X619-2 Ground Return Module Ground

SCR03-A OG 0.35 FLRY
PREMST && RHST 301.0 1076116-XX-E
SCR04-A BU 0.35 FLRY
PREMST && RHST 301.0 1076116-XX-E

PREMST
Seat Backrest Pitch Front
Y

X613-1 Power In Power (U+ = SEAT FORWARD, CW)
X613-3 Power In Power (U+ = SEAT REARWARD, CCW)
X613-2 PWM Out Hall Effect
X613-4 Ground Return Hall Effect

Heat Pad Backrest Front
Y

X616-2 Power In Heat +12V
X616-1 Ground Return Heat GND

Heat Pad Cushion Front
Y

X617-2 Power In Heater Supply
X617-1 Ground Return Heater GND
X617-3 Analog In NTC +
X617-4 Ground Return NTC - Supply (GND)

Lift Motor
Y

X618-3 Half-Bridge Down
X618-1 Half-Bridge Up
X618-2 Hall Sensor Out Hall effect signal
X618-4 Ground Return Hall effect ground

Seat Track Position Sensor
Y

X624-2 Analog Out Signal
X624-1 Ground Return Return

PREMST
Track Motor
Y

X614-1 Power In Fore
X614-5 Power In Aft
X614-4 Hall Sensor Out Hall effect signal
X614-2 Ground Return Hall effect ground

Seat Switchpack Front Right
Y

X661-3 Analog Out **RHST && PREMST** Lumbar
X661-2 Analog Out **PREMST && RHST** Track/Backrest
X661-1 Analog Out Lift/Tilt
X661-4 Ground Return Ground

DRIVR
Occupancy Sensor Front
Y

X622-1 Analog Out Signal
X622-2 Ground Return Return

PASSN
OCS
Y

X652-4 Power In Power
X652-2 CAN CAN-H
X652-1 CAN CAN-L
X652-3 Ground-Chassis Ground

X621

X621

X621

X621

X621

RHST
Seatbelt Buckle Switch Front Right
Y

X640-1 Power In Power In
X640-2 Ground Return Ground Return

PREMST
Tilt Motor
Y

X621-1 Half-Bridge Up
X621-3 Half-Bridge Down
X621-4 Hall Sensor Out Hall effect signal
X621-2 Ground Return Hall effect ground

PREMST
Lumbar
Y

X620-1 Power In Power to Pump
X620-3 Ground Return Ground

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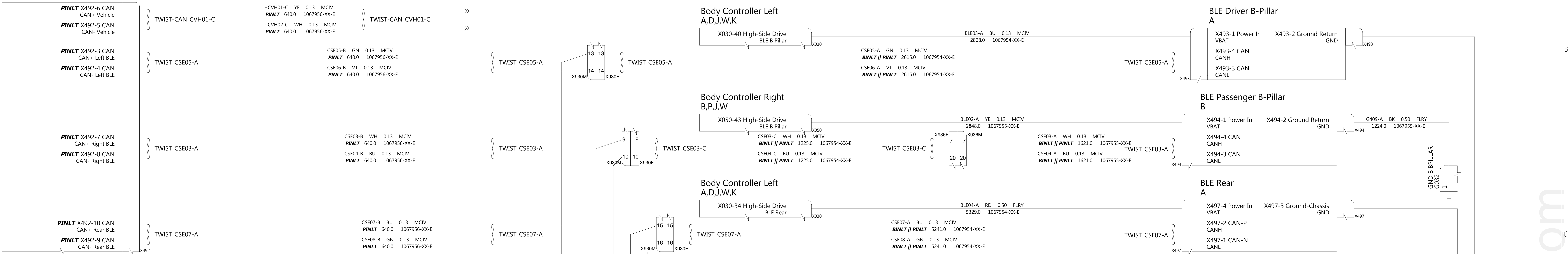
DRAWN	CHECKED	APPROVED

MATERIAL AS SPECIFIED	FINISHING AS SPECIFIED	SCALE NONE
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PART NAME Seats Front Right

PART NUMBER	REV 3	SHEET 26 of 29	SIZE A0
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PINLT Security Controller C



BINLT Security Controller (B) C

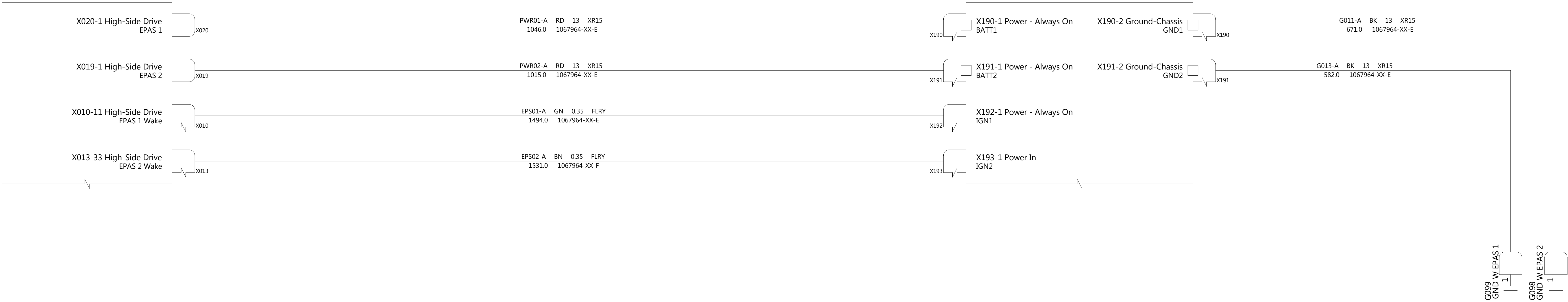


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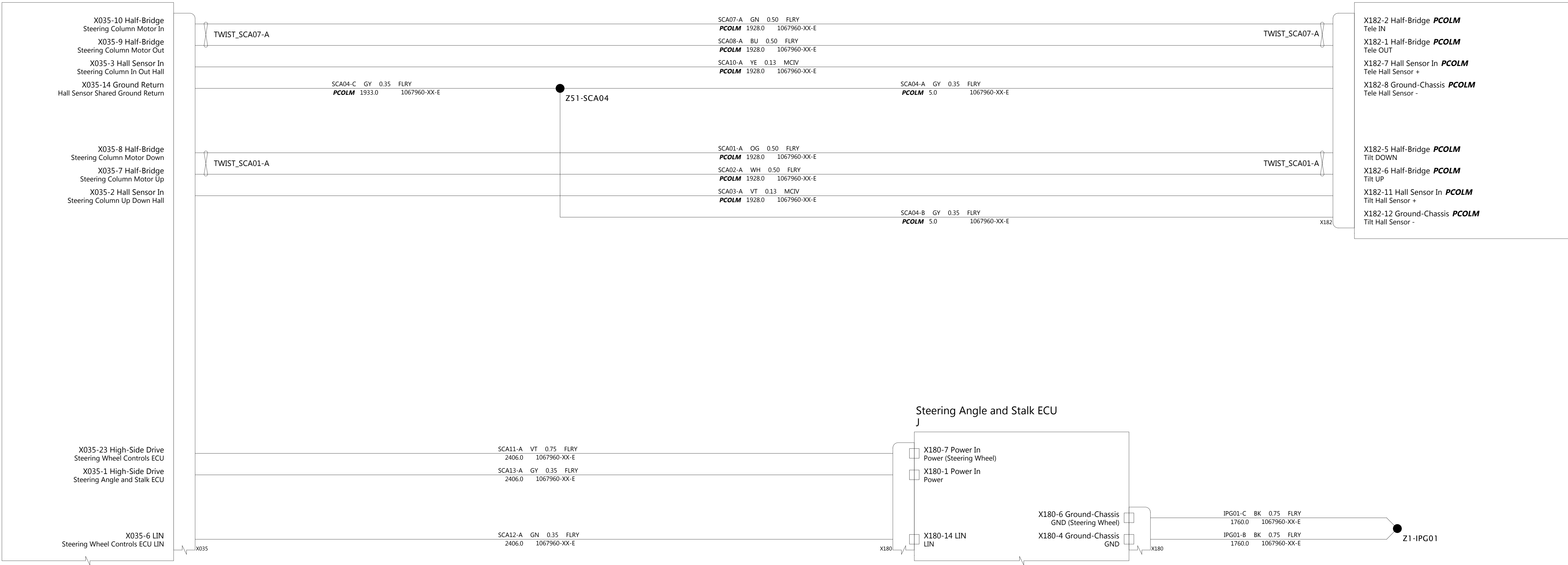
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DRAWN	CHECKED	APPROVED
MATERIAL AS SPECIFIED	FINISHING AS SPECIFIED	SCALE NONE
PART NAME Security Controls		
PART NUMBER	REV 3	SHEET 27 of 29
		SIZE A0

Body Controller Front
W,U



Body Controller Left
A,D,J,W,K

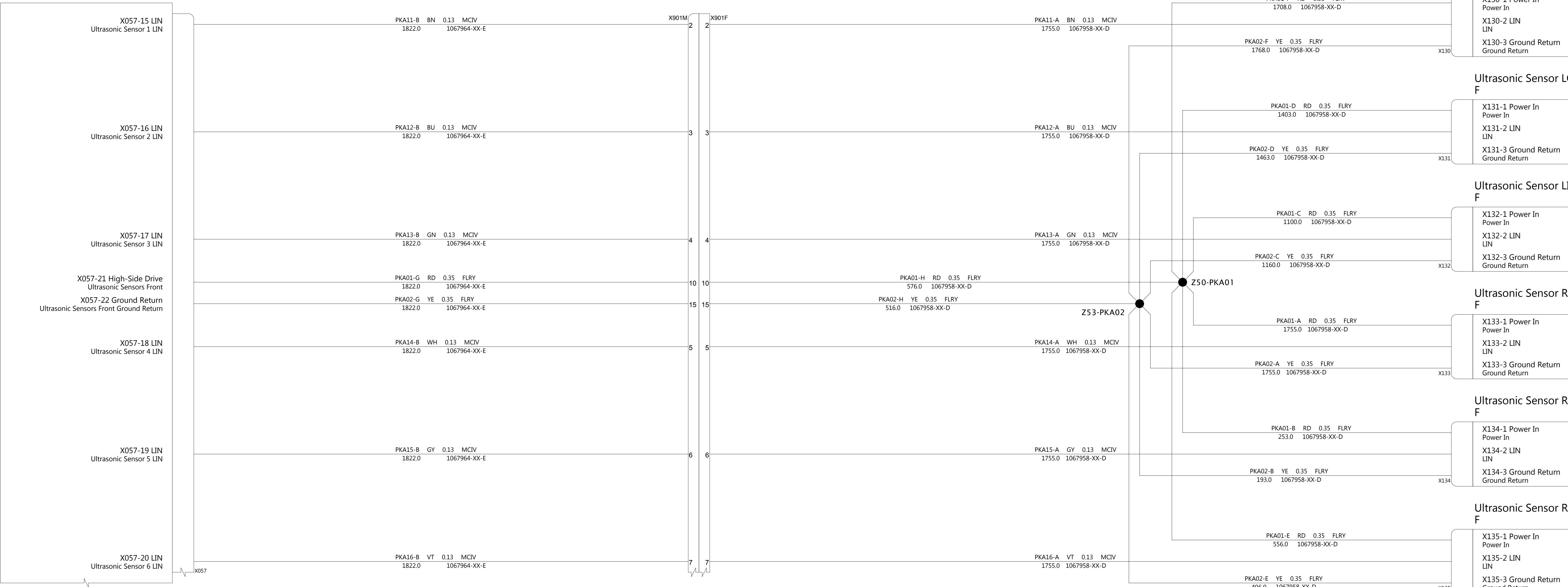


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DRAWN	CHECKED	APPROVED
MATERIAL AS SPECIFIED	FINISHING AS SPECIFIED	SCALE NONE
PART NAME Steering		
PART NUMBER	REV 3	SHEET 28 of 29
		SIZE A0

Body Controller Right
B,P,J,W



Body Controller Right
B,P,J,W



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DRAWN	CHECKED	APPROVED	
MATERIAL AS SPECIFIED	FINISHING AS SPECIFIED	SCALE NONE	
PART NAME Ultrasonics			
PART NUMBER	REV 3	SHEET 29 OF 29	SIZE A0

Horn Right - High Tone



Horn Left - Low Tone



Radar Front



Emergency Frunk Release Switch



Homelink ECU



Frunk Latch



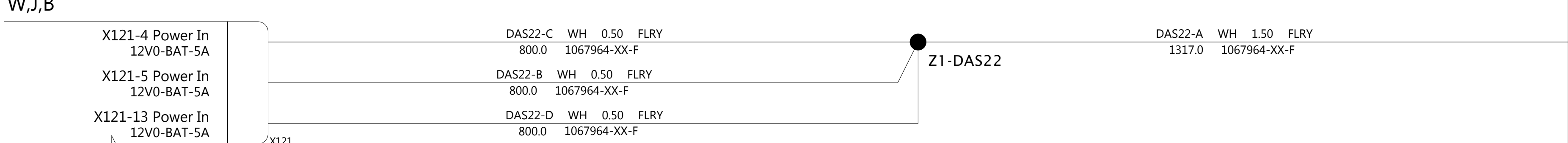
Glass Heater - Windshield



Frunk Access Post



Autopilot ECU 2.5



Drive Inverter Front & Resolver



Drive Inverter Front & Resolver



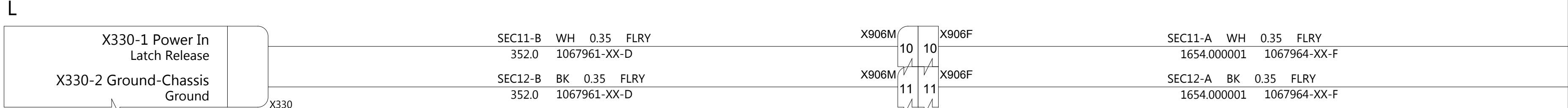
TXV Evaporator Solenoid



Drive Unit Oil Pump Front



Frunk Latch



Windshield - Washer Pump & Level Sensor



Frunk Latch



MCU



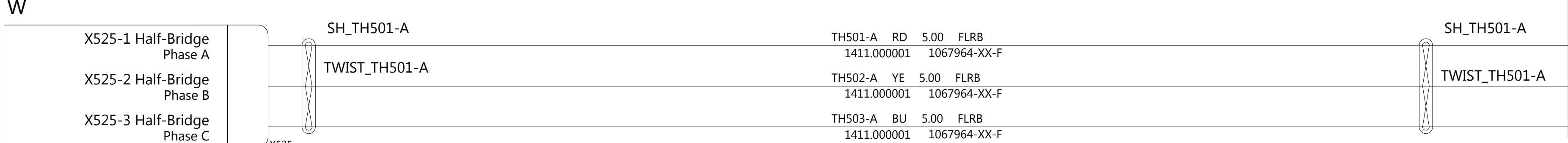
HCU/ESP



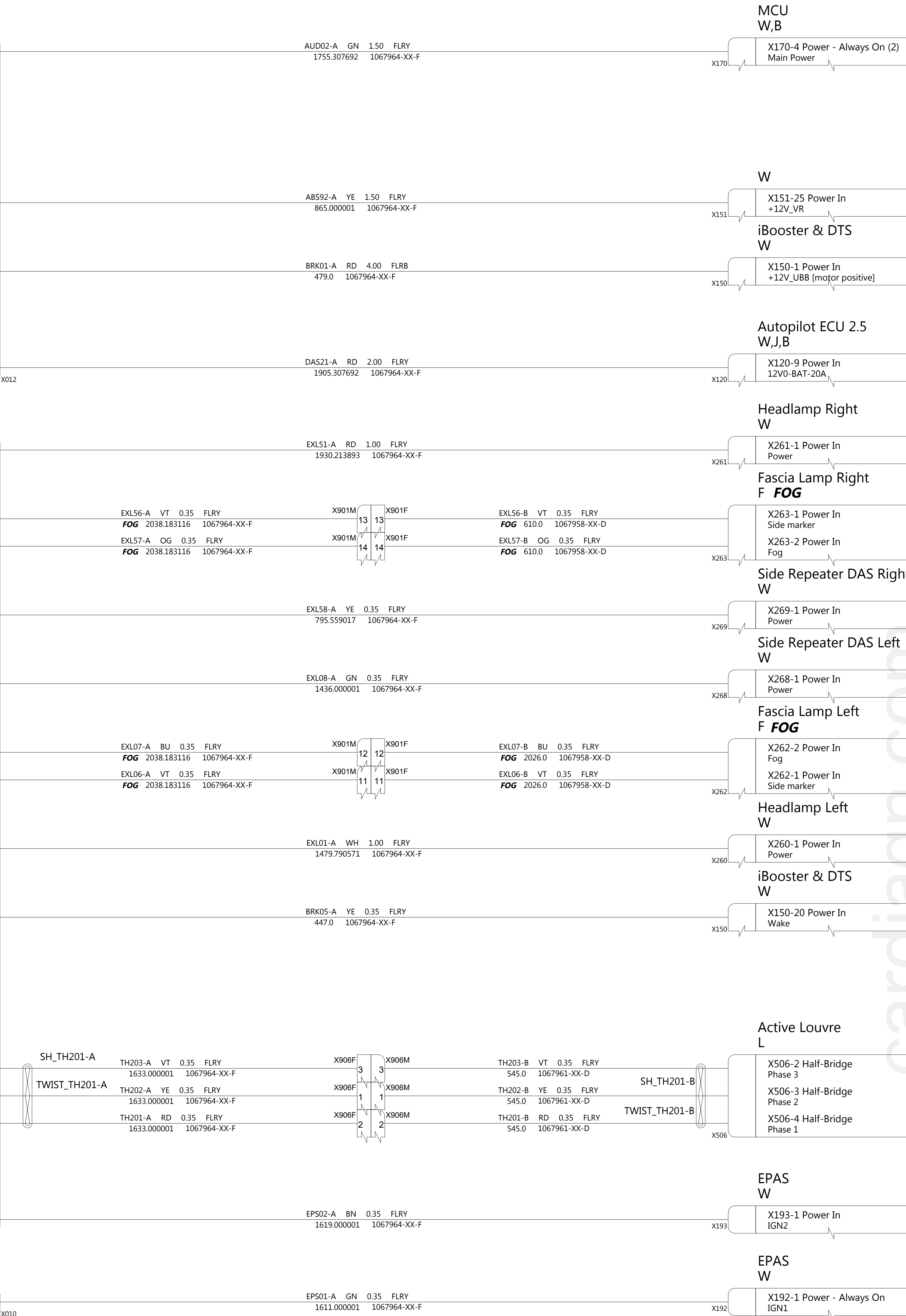
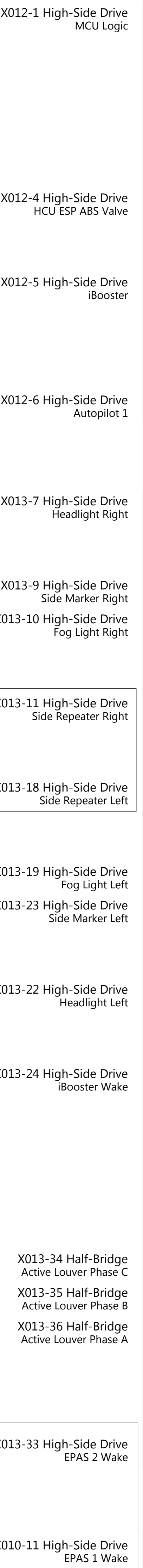
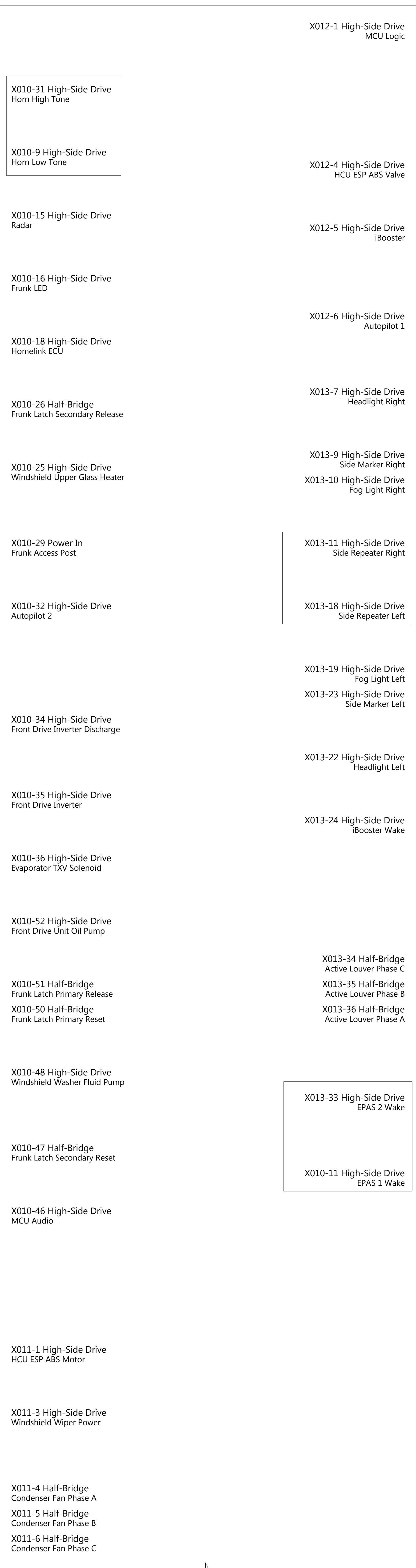
Wiper Motor



Condenser Fan



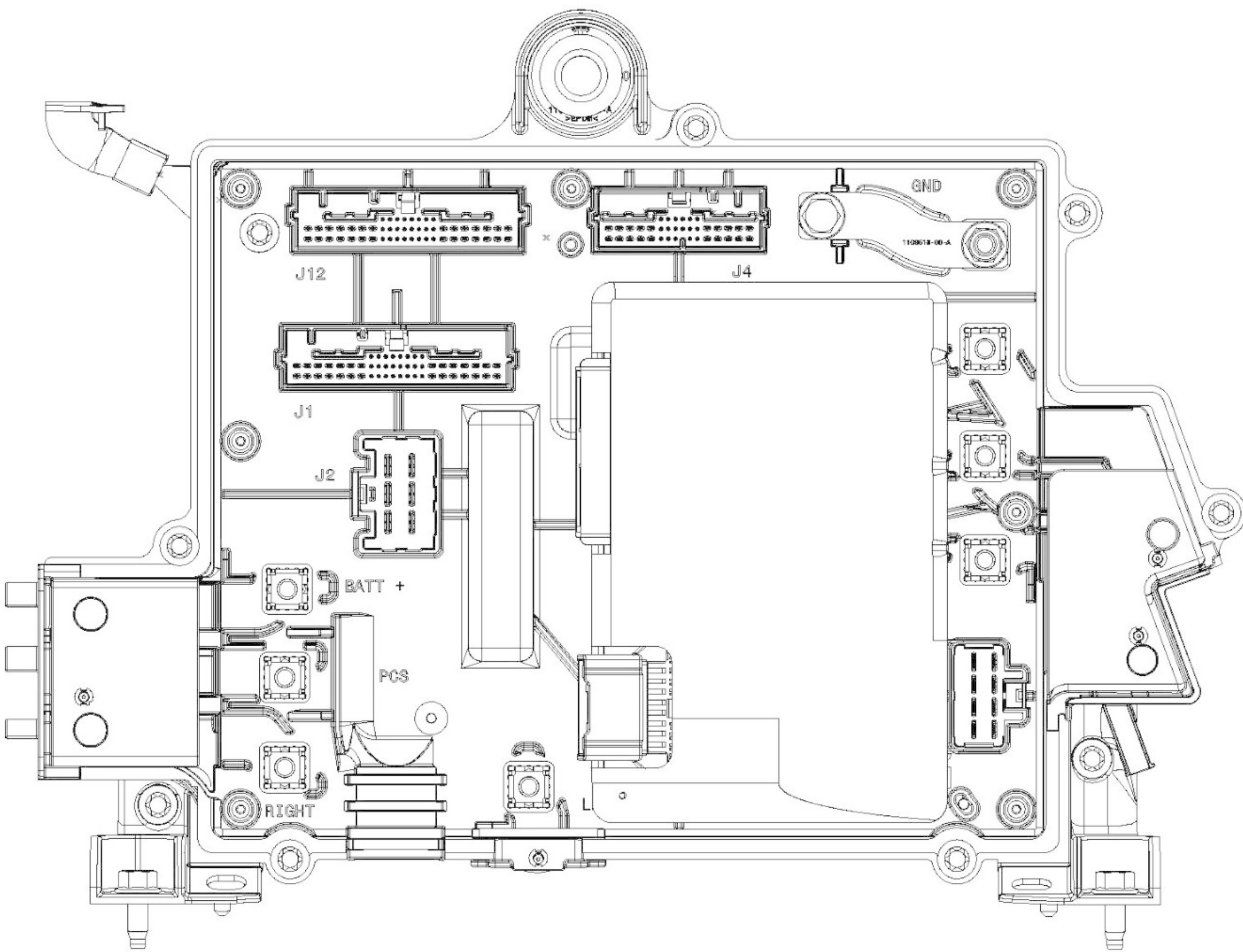
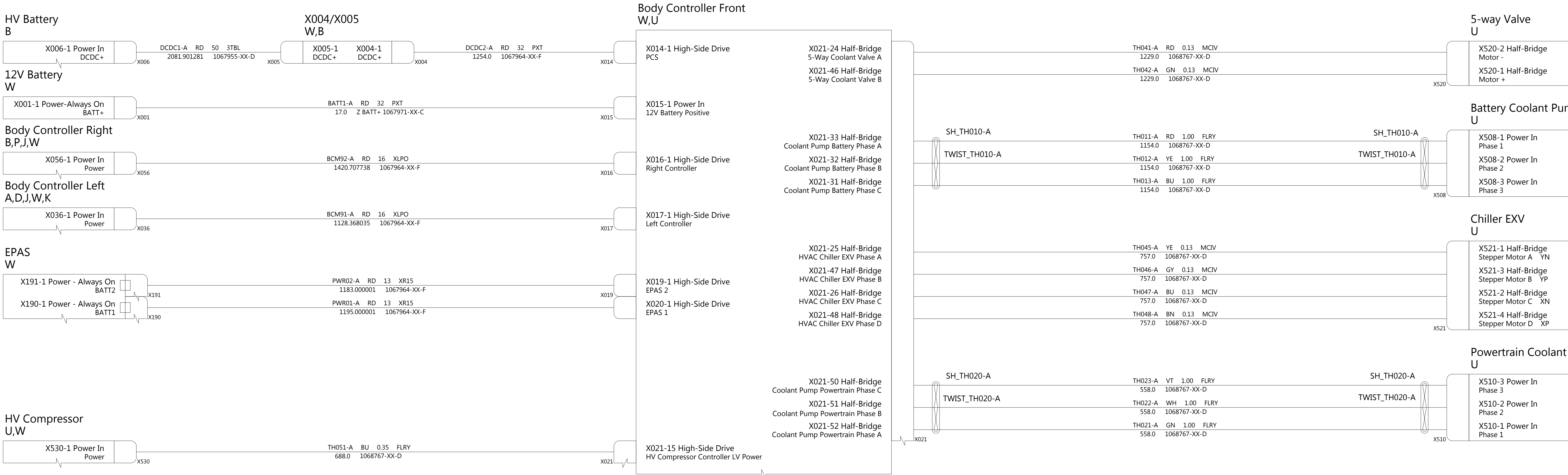
Body Controller Front W,U



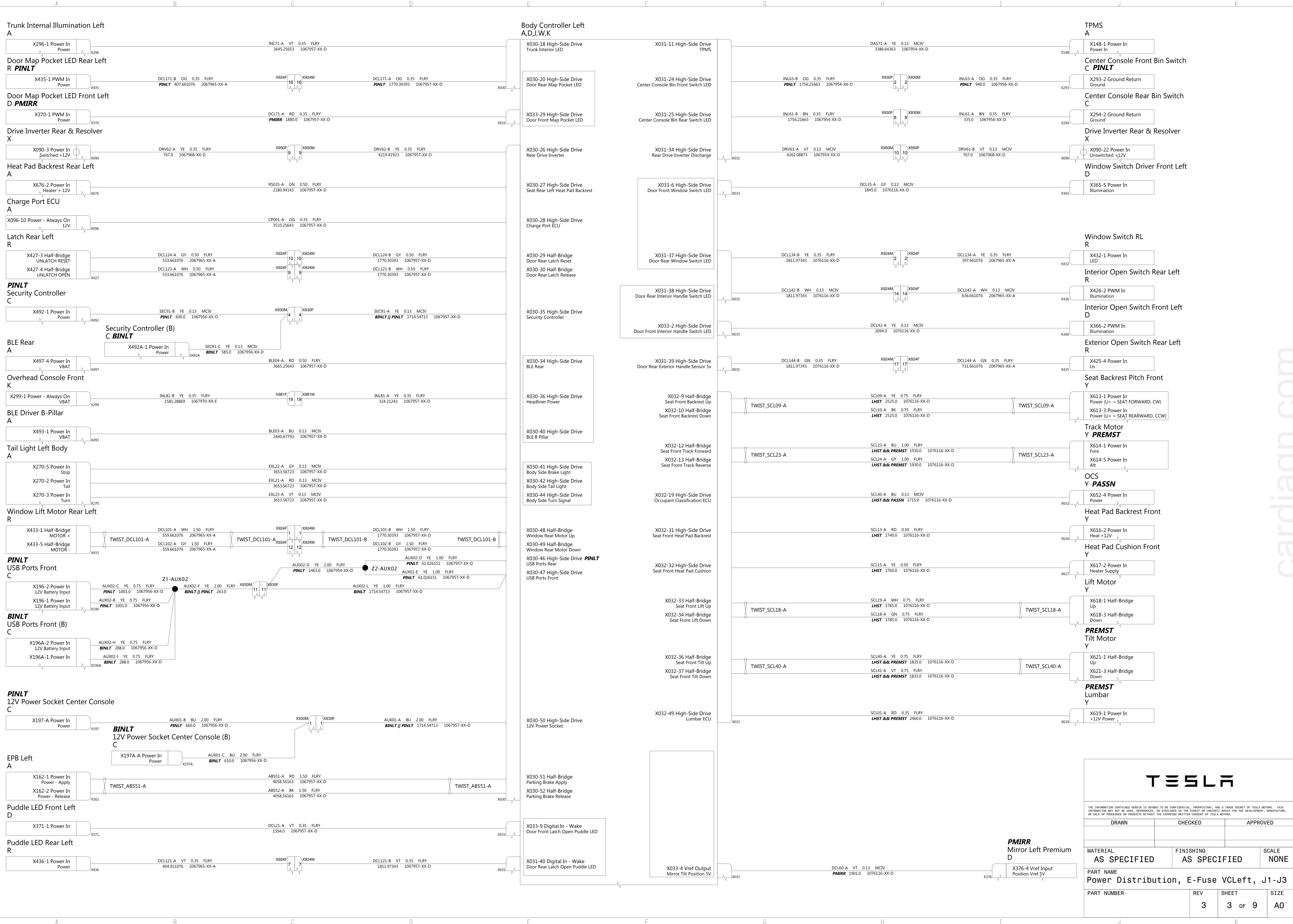
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DRAWN	CHECKED	APPROVED
MATERIAL AS SPECIFIED	FINISHING AS SPECIFIED	SCALE NONE
PART NAME Power Distribution, E-Fuse VCFront, J1-J4		
PART NUMBER	REV 3	SHEET 1 OF 9 SIZE A0



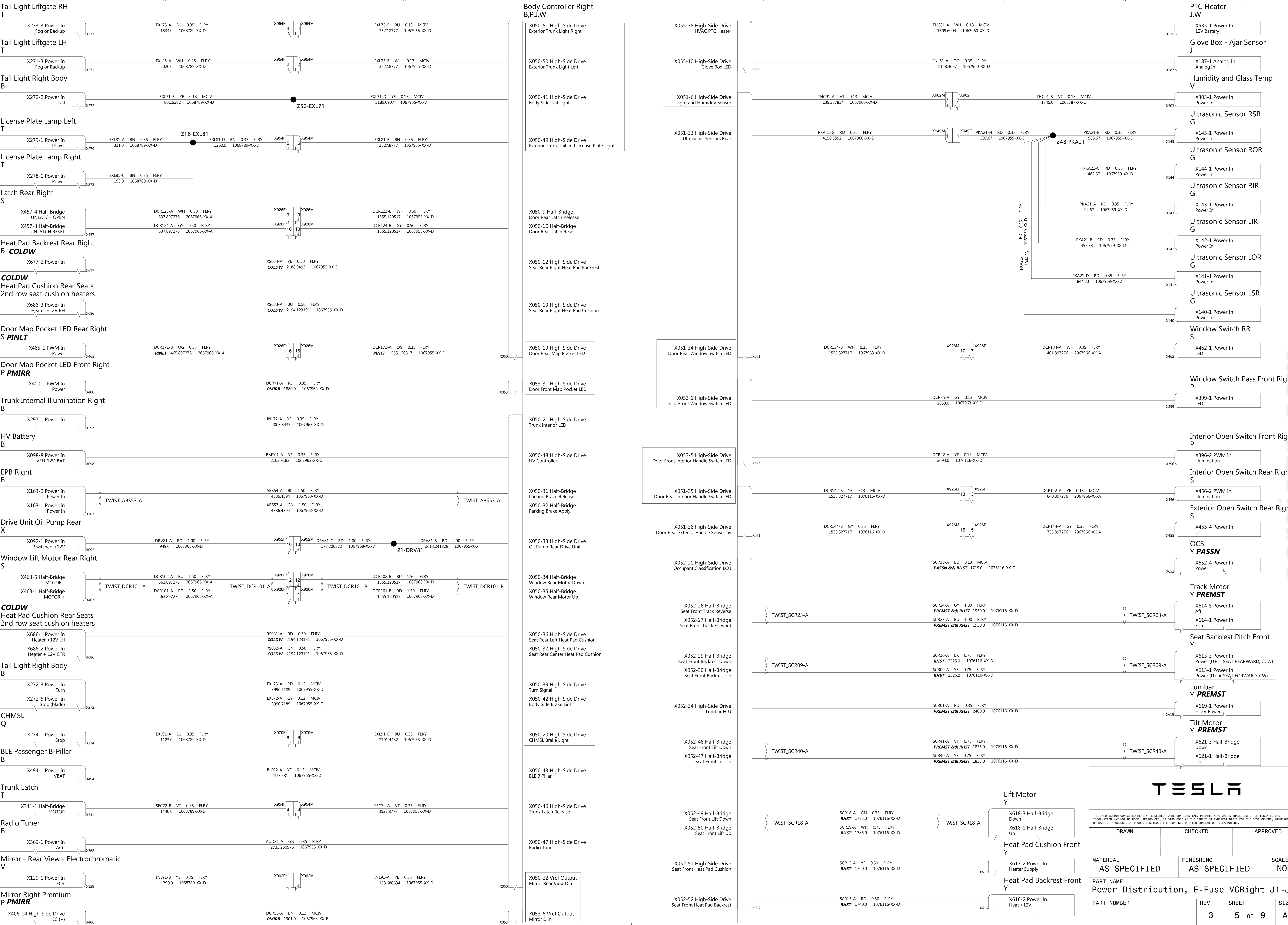
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DRAWN		CHECKED	
		APPROVED	
MATERIAL		FINISHING	
AS SPECIFIED		AS SPECIFIED	
		SCALE	
		NONE	
PART NAME			
Power Distribution, E-Fuse VCFront, J5-J11			
PART NUMBER		REV	
		3	
		SHEET	
		2 OF 9	
		SIZE	
		A0	



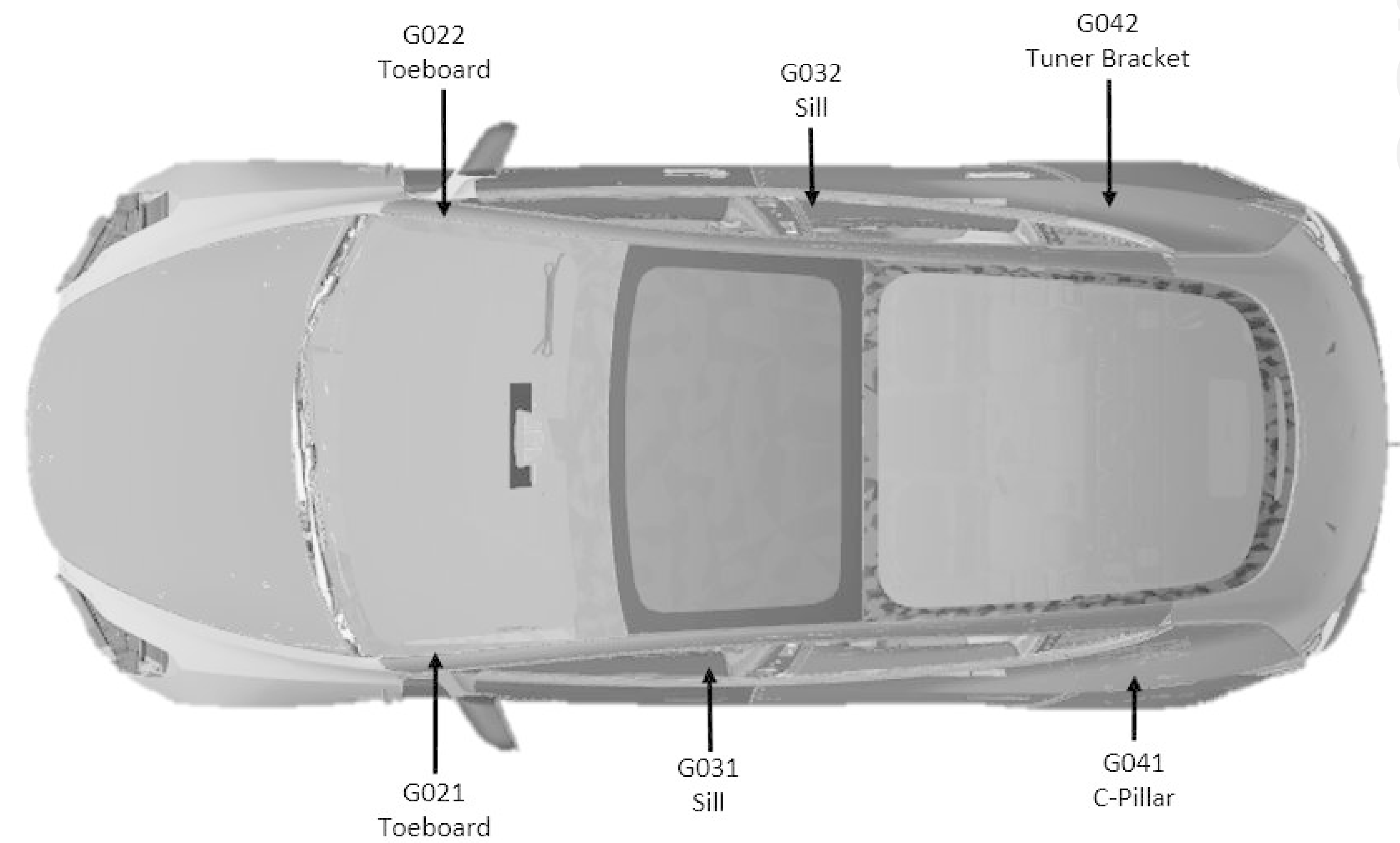
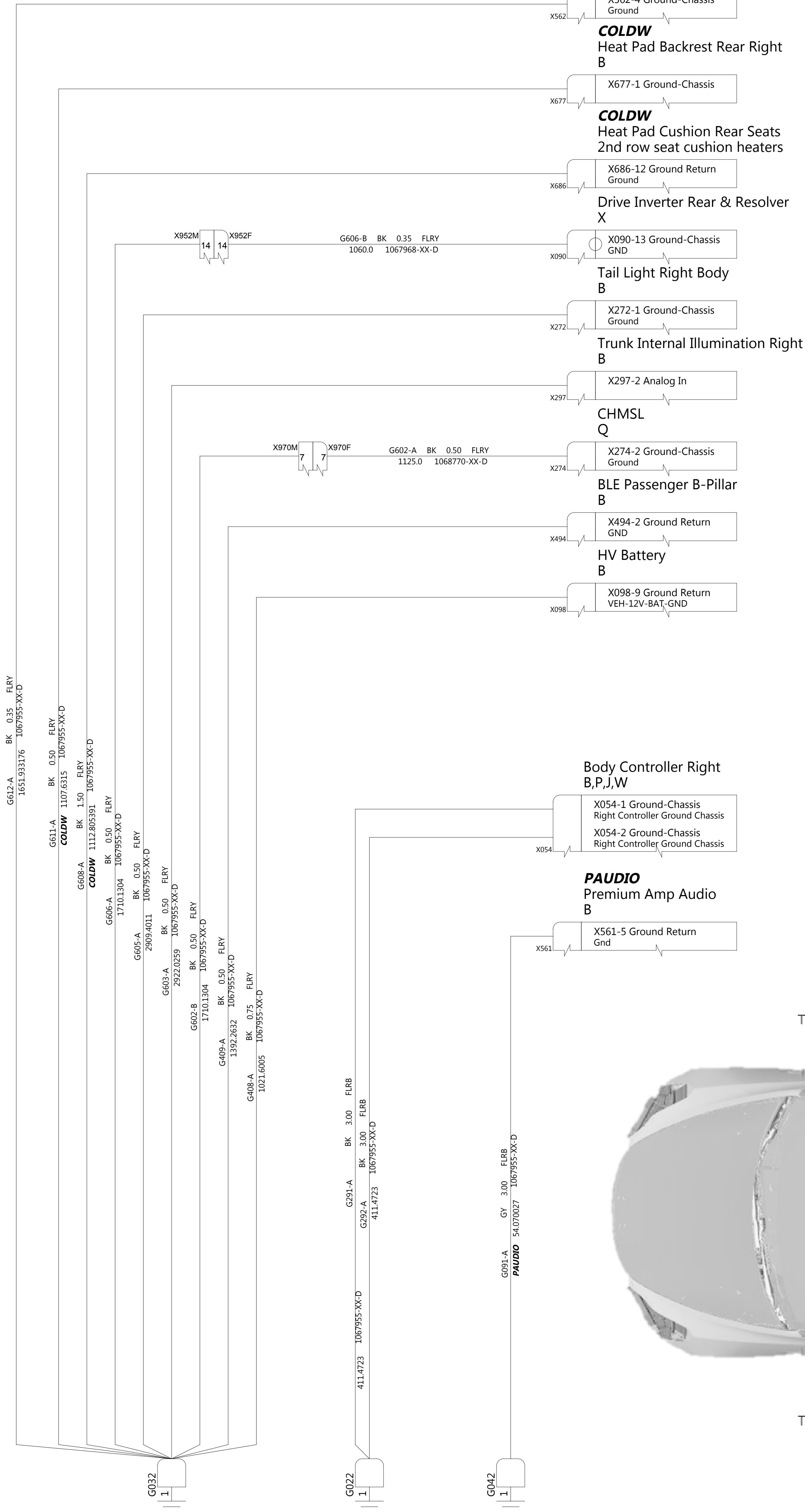
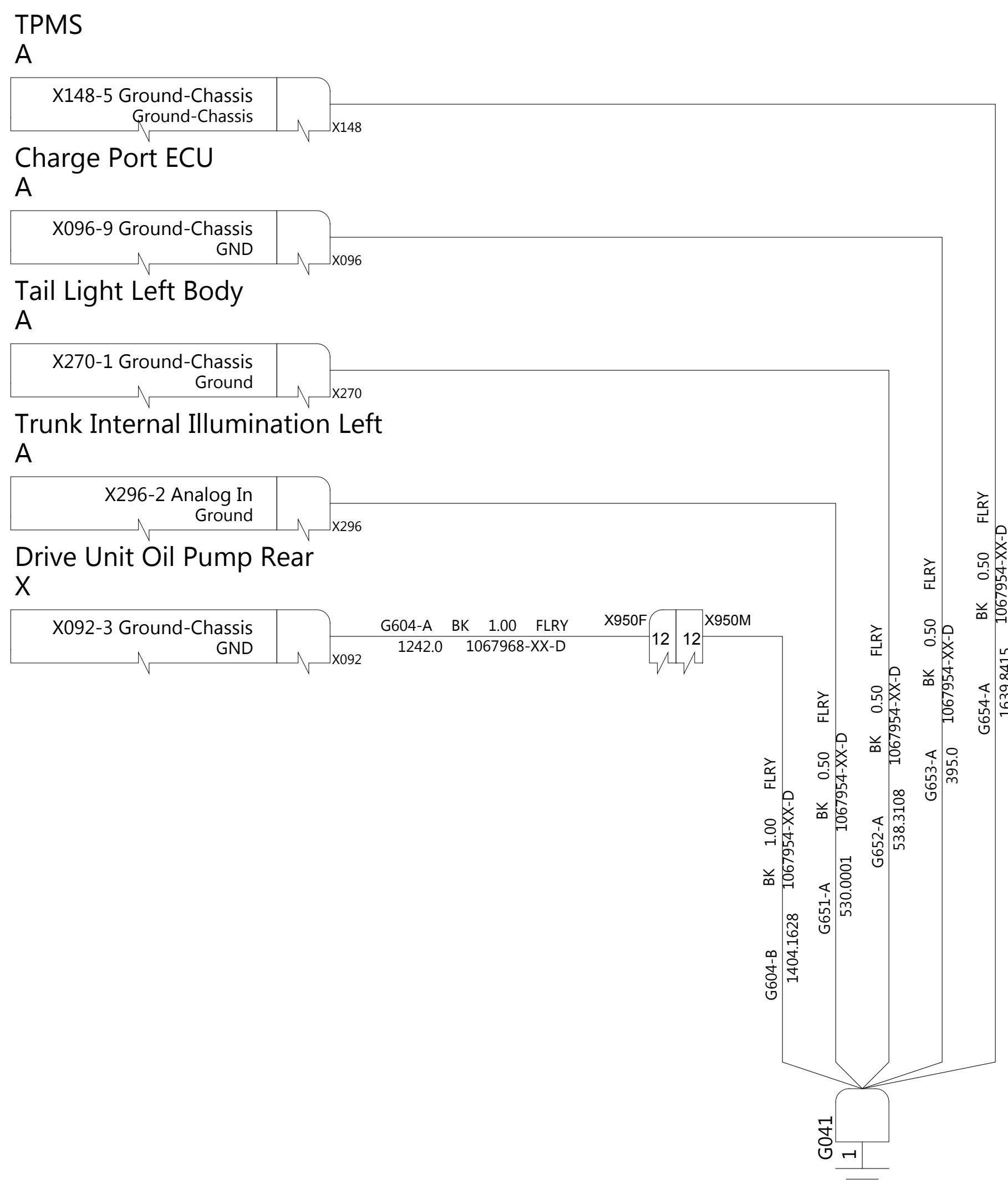
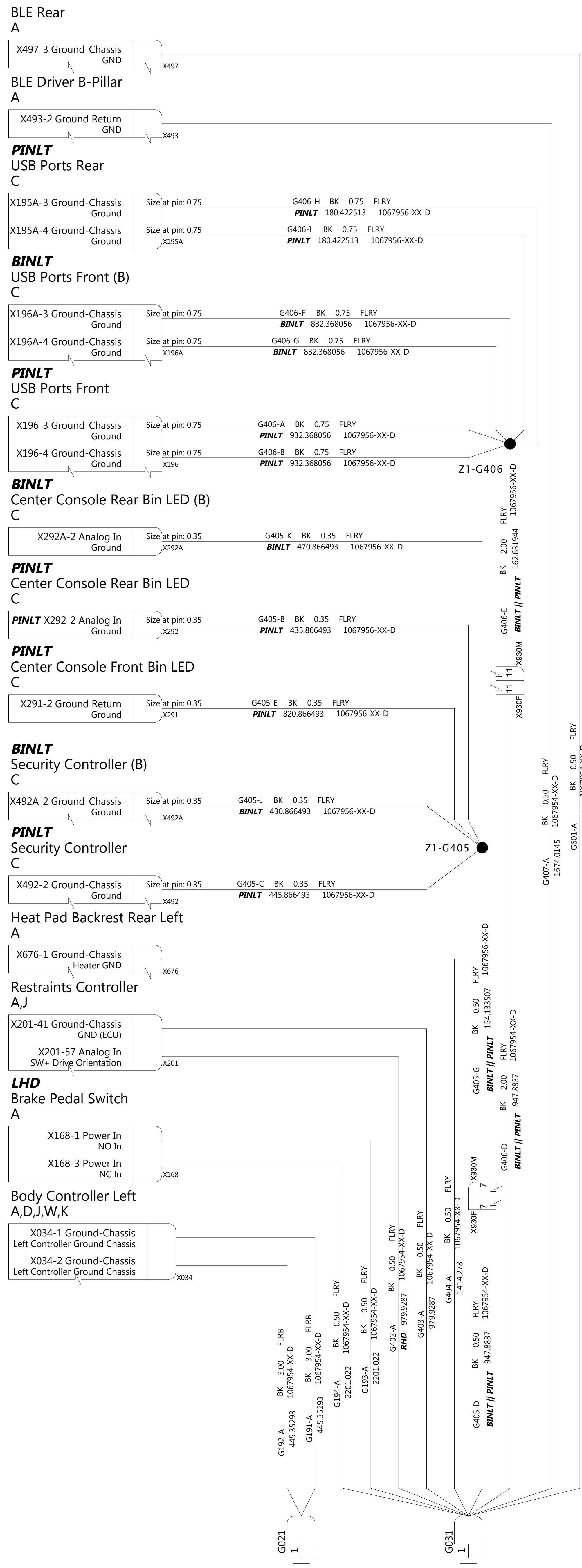
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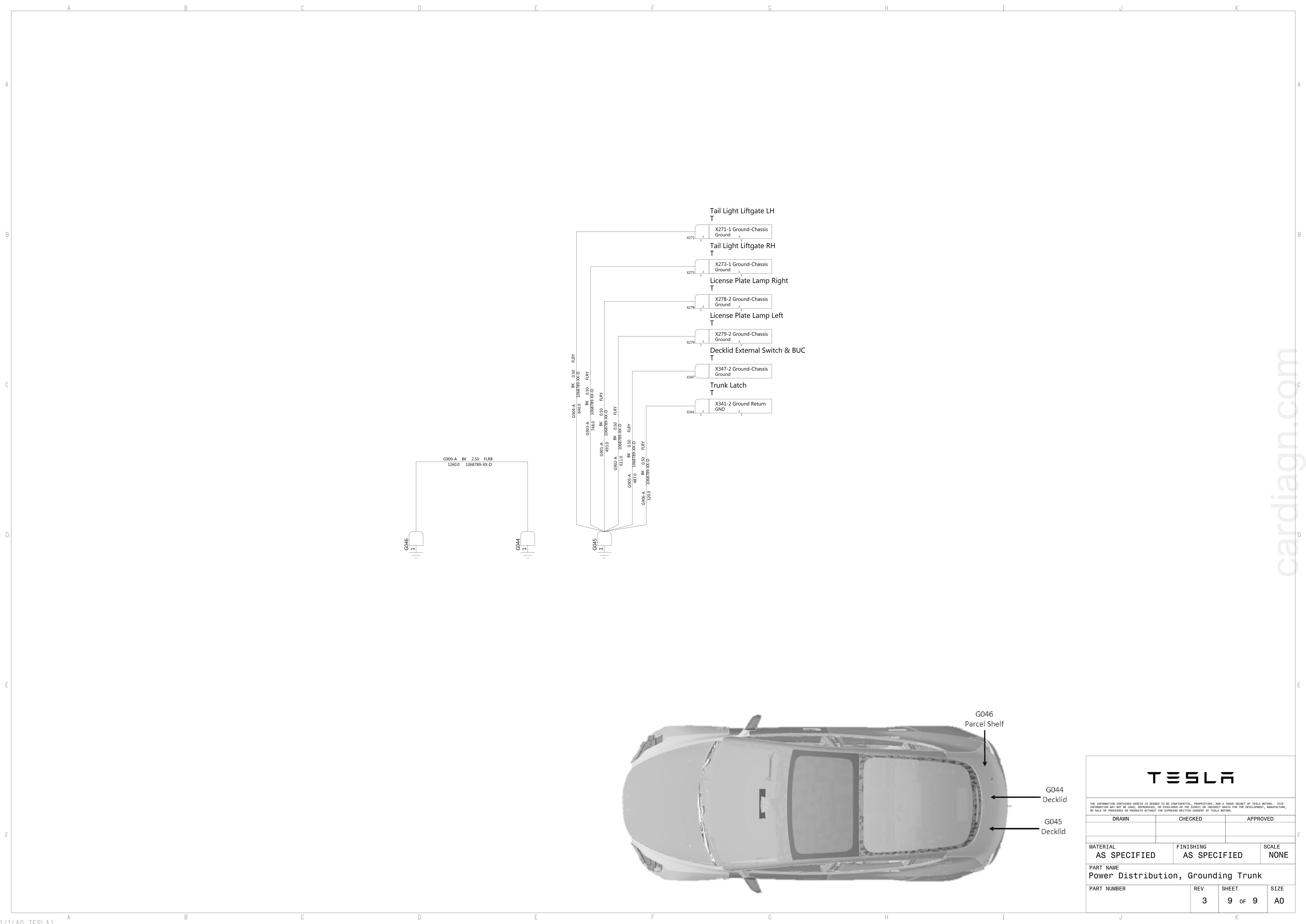
DRAWN	CHECKED	APPROVED	
MATERIAL AS SPECIFIED	FINISHING AS SPECIFIED		SCALE NONE
PART NAME Power Distribution, E-Fuse VCLeft, J1-J3			
PART NUMBER	REV 3	SHEET 3 OF 9	SIZE A0



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DRAWN		CHECKED		APPROVED			
MATERIAL		FINISHING			SCALE		
AS SPECIFIED		AS SPECIFIED			NONE		
PART NAME							
Power Distribution, E-Fuse VCRight J1-J3							
PART NUMBER			REV	SHEET		SIZE	
			3	5 OF 9		A0	



			
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DRAWN		CHECKED	
		APPROVED	
MATERIAL		FINISHING	SCALE
AS SPECIFIED		AS SPECIFIED	NONE
PART NAME Power Distribution, Grounding Pillars			
PART NUMBER	REV	SHEET	SIZE
	3	8 OF 9	A0



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DRAWN		CHECKED		APPROVED	
MATERIAL AS SPECIFIED		FINISHING AS SPECIFIED		SCALE NONE	
PART NAME Power Distribution, Grounding Trunk					
PART NUMBER		REV 3	SHEET 9 OF 9		SIZE A0