Description Page Table of Contents Audio Body Controller Front J1, J2 Body Controller Front J3, Cables Body Controller Front J4 Body Controller Left J1 Body Controller Left J2, OHC Body Controller Right J1 Body Controller Right J2, J5 Body Controllerer Dashboard **Brake Controls CAN Chassis CAN Party** CAN Vehicle Door Front Left Door Front Right Door Rear **Drive Inverters Driver Assistance HV Battery & HVIL HV Penthouse HVAC Case Subassembly HVAC Thermal Subassembly** Restraints Airbags RF/Special Cables Seats Front Left Seats Front Right **Security Controls** Steering **Ultrasonics** Power Distribution, E-Fuse VCFront, J1-J4 Power Distribution, E-Fuse VCFront, J5-J12 Power Distribution, E-Fuse VCLeft, J1-J3 Power Distribution, E-Fuse VCLeft, J4-J9 Power Distribution, E-Fuse VCRight, J1-J3 Power Distribution, E-Fuse VCRight, J4-J9 Power Distribution, Grounding A,B,C Pillars Power Distribution, Grounding Frunk Power Distribution, Grounding Trunk

Table 5: Option Codes

1451C 3. OP	tion codes
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	Premium Audio
PAUDIO	Cold Weather Package
COLDW	Left Hand Drive
LHD	All Wheel Drive
AWD	Rear Wheel Drive
RWD	Base Interior Lights
PINLT	Premium Interior Lights
PMIRROR	Premium Mirror with Powerfold
RENA	Region North America
CSUSP	Coil Suspension
PREMST	Premium Seat

Table 1: Abbreviations

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

Table 2: Harness Designators

Table 2. Harriess Designators				
Α	LH BODY	Q	PARCEL SHELF	
В	RH BODY	R	LH RR DOOR	
C	CENTER CONSOLE	S	RH RR DOOR	
D	LH FR DOOR	Т	LIFT GATE	
F	FR FASCIA	U	THERMAL	
G	RR FASCIA	V	GLASS	
Н	HV PENTHOUSE	W	FRUNK	
J	IP	X	REAR SUBFRAME	
K	HEADLINER	Υ	FRONT SEATS	
L	FRONT END MODULE			
Ν	FRONT SUBFRAME			
Р	RH FR DOOR			

Table 3: Wire Color Designators

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

Table 4: Wire Type Designators

Tubic 1.	Which ype besignators
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.

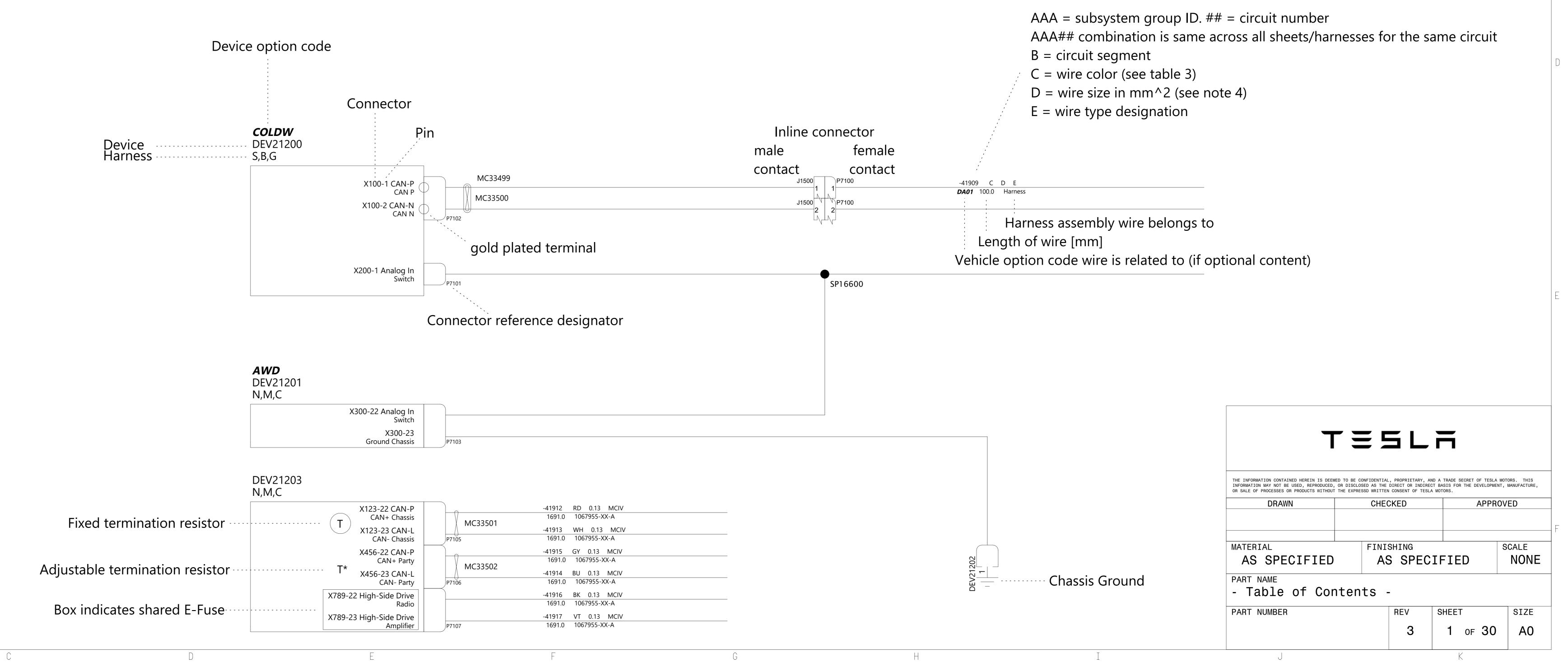
 There is no overall reference in this document for the signals routed to a specific connector.
- 4) Wire sizes are specified in mm² cross-sectional area (CSA) per SAE 1127/8
- 5) Wire Specification: 60V, thin-wall PVC (ISO type or equivalent).

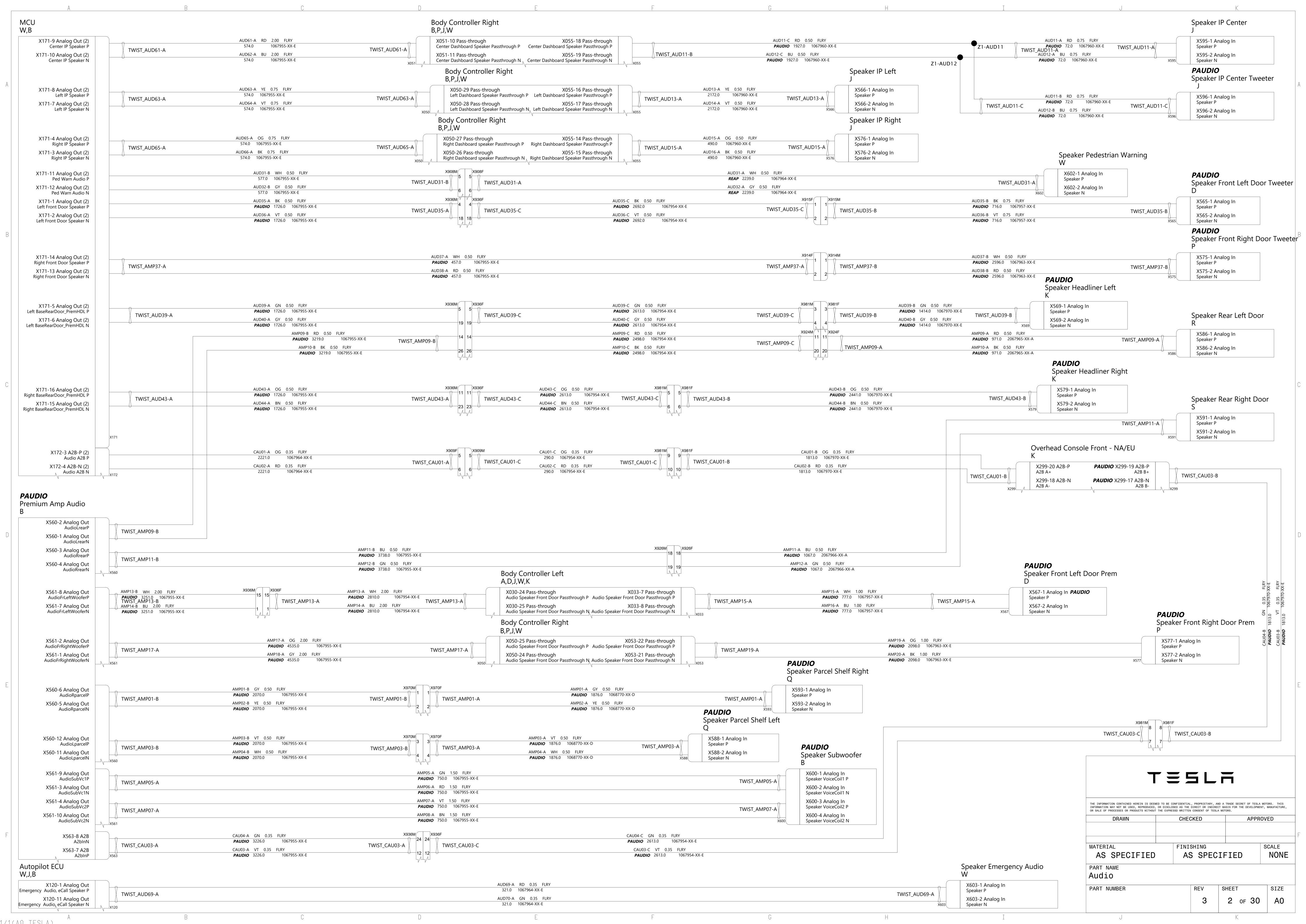
 Default wire type to be rated 60VDC/25VAC and -40C to 105C operating temperature.

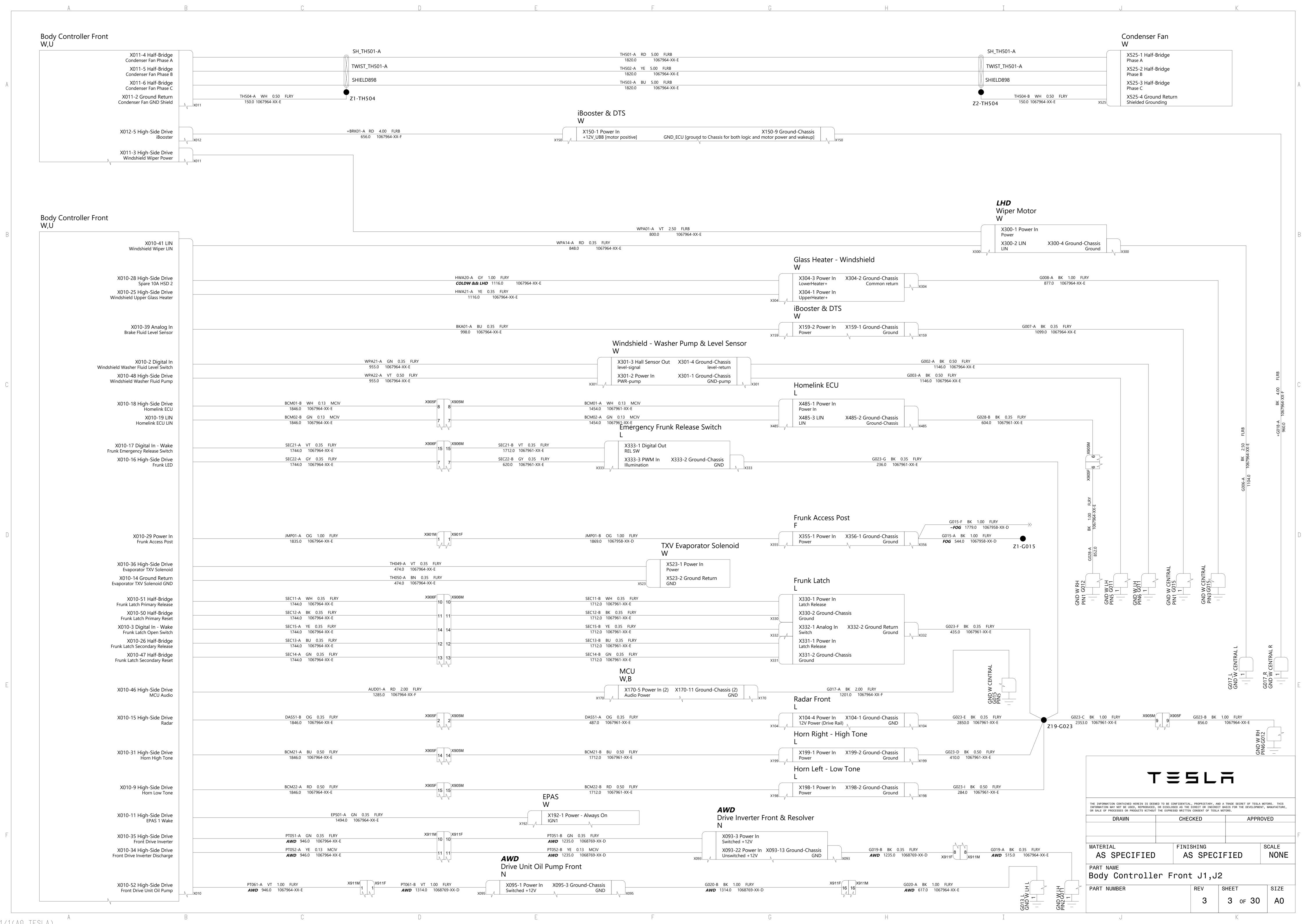
 See DIN 13602 or ISO 6722 for detailed specifications.
- 6) Unless otherwise specified at the device pins, terminal plating is to be Tin or Pre-Tin

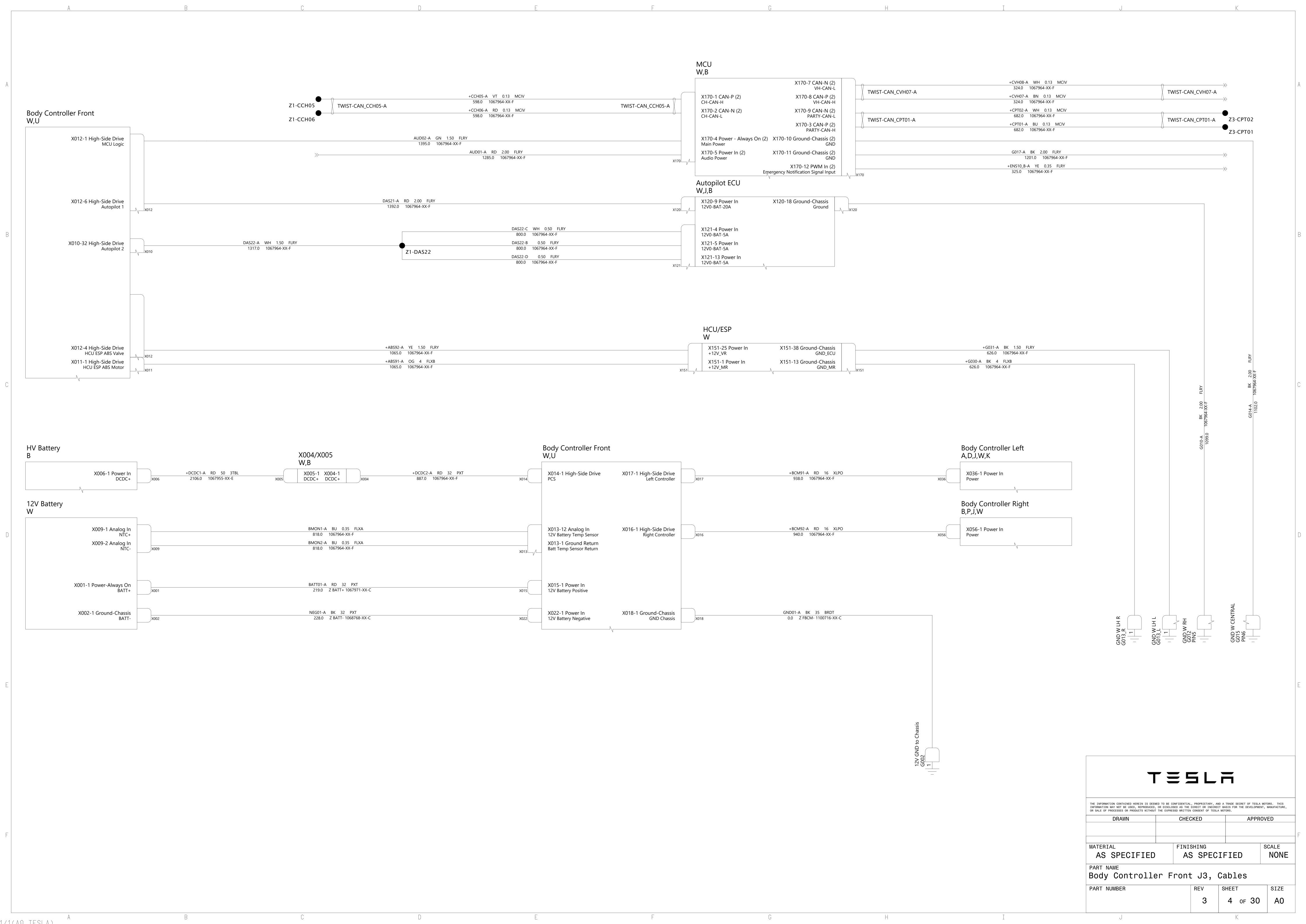
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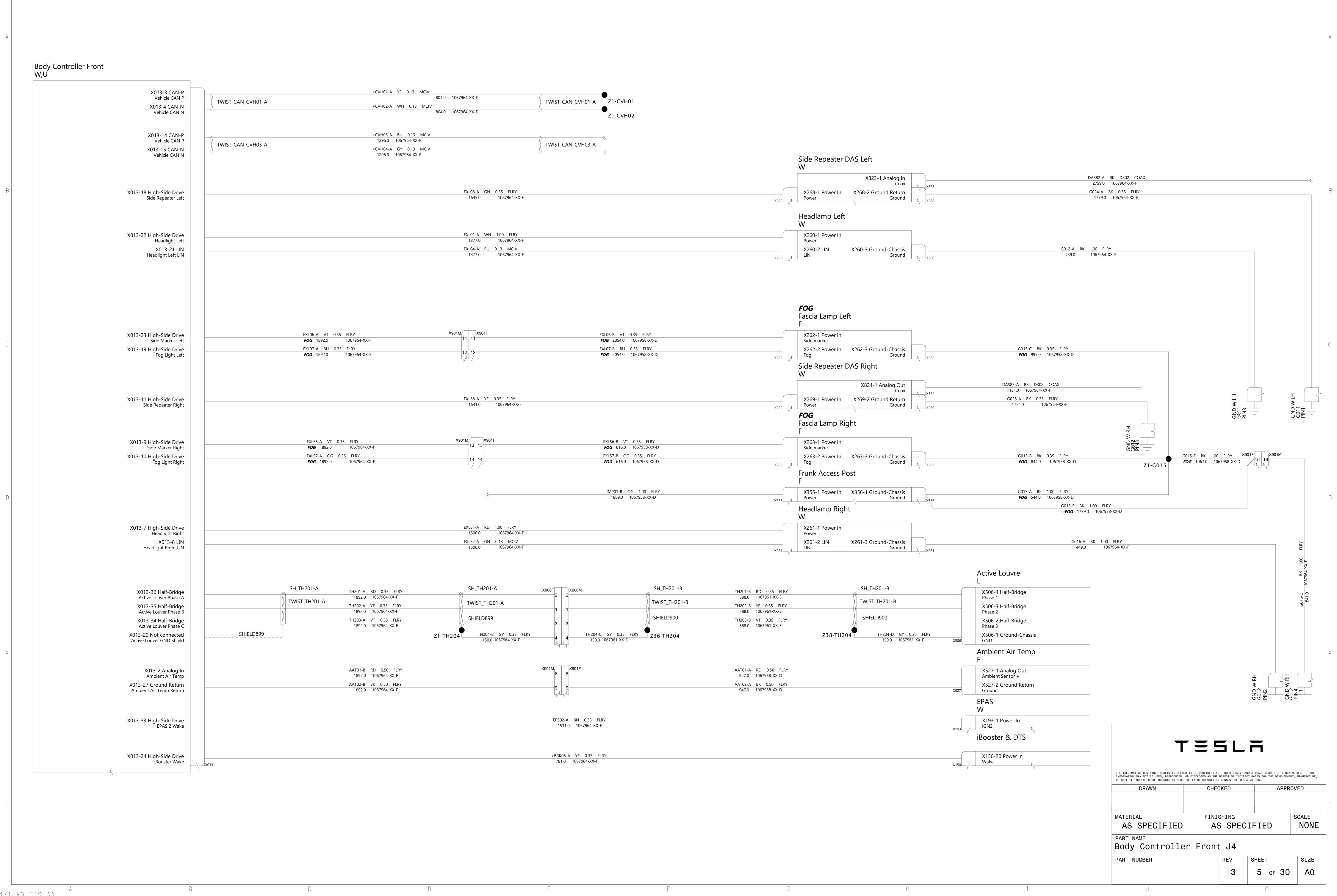
- O GOLD TERMINAL NECESSARY
- SILVER PLATING NECESSARY
- 7) Inline connector gender specification is based on the terminal type.
 Inline connectors with "M" suffix have male, tab or pin terminals
 Inline connectors with "F" suffix have female, receptacle or socket terminals



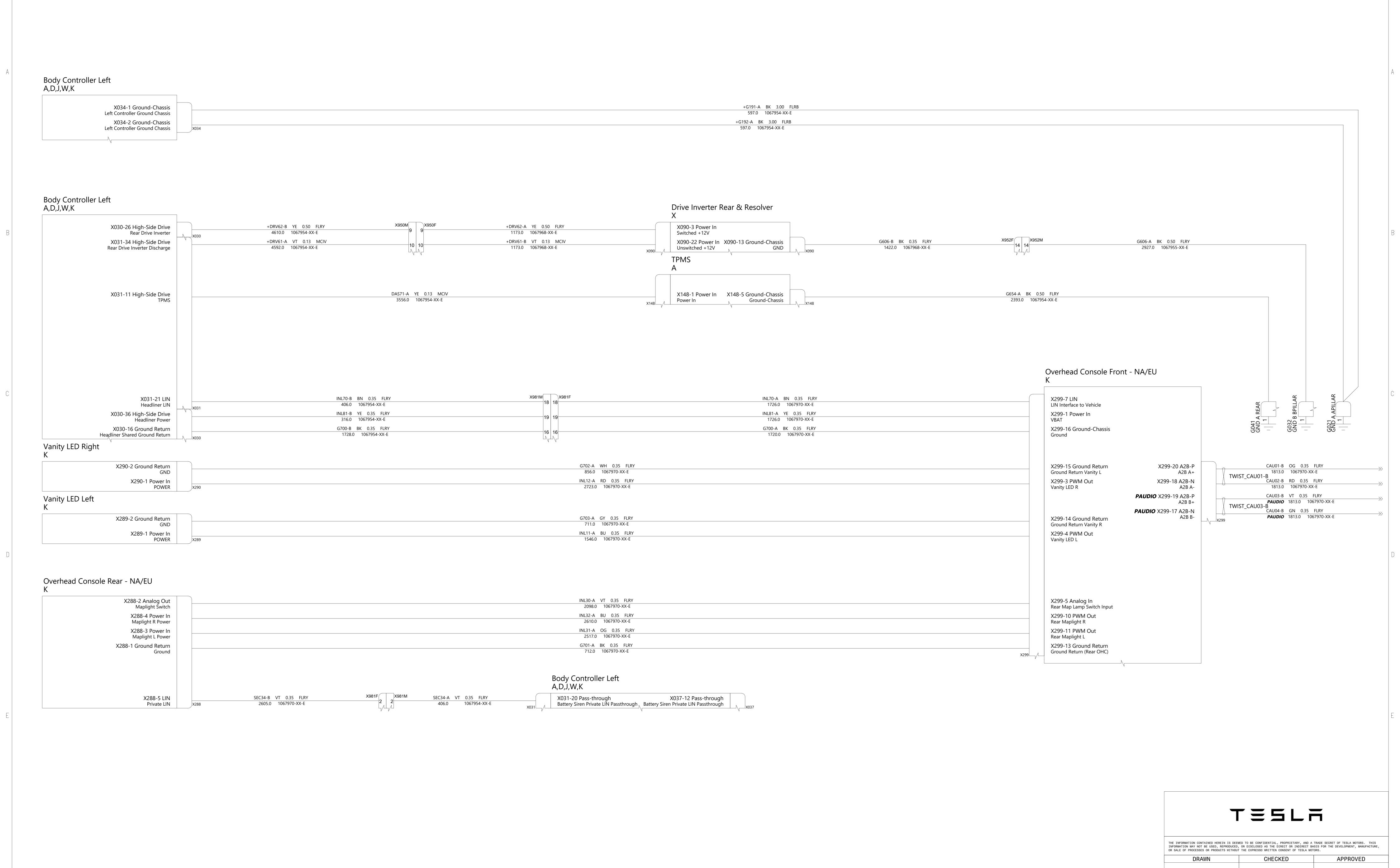












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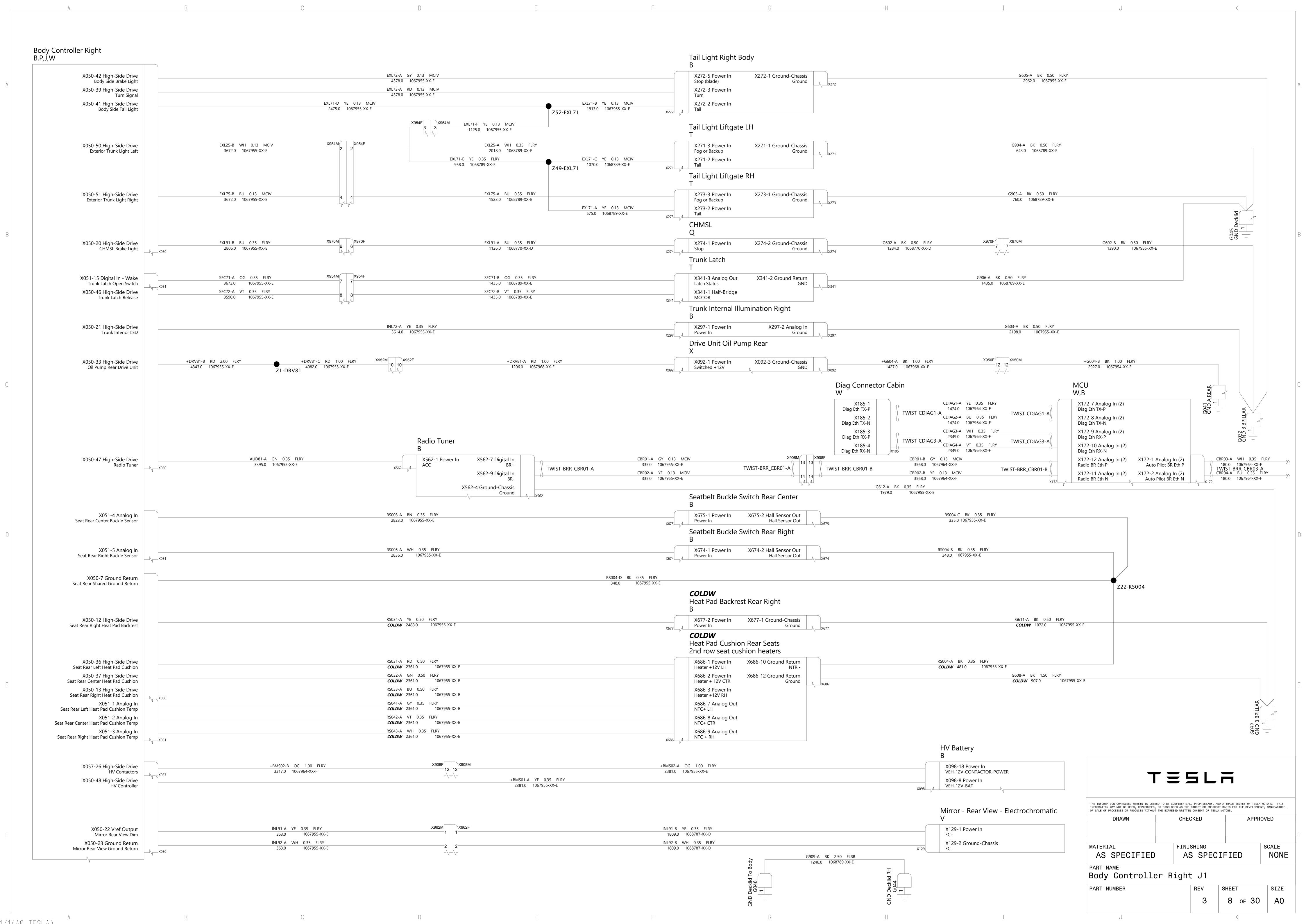
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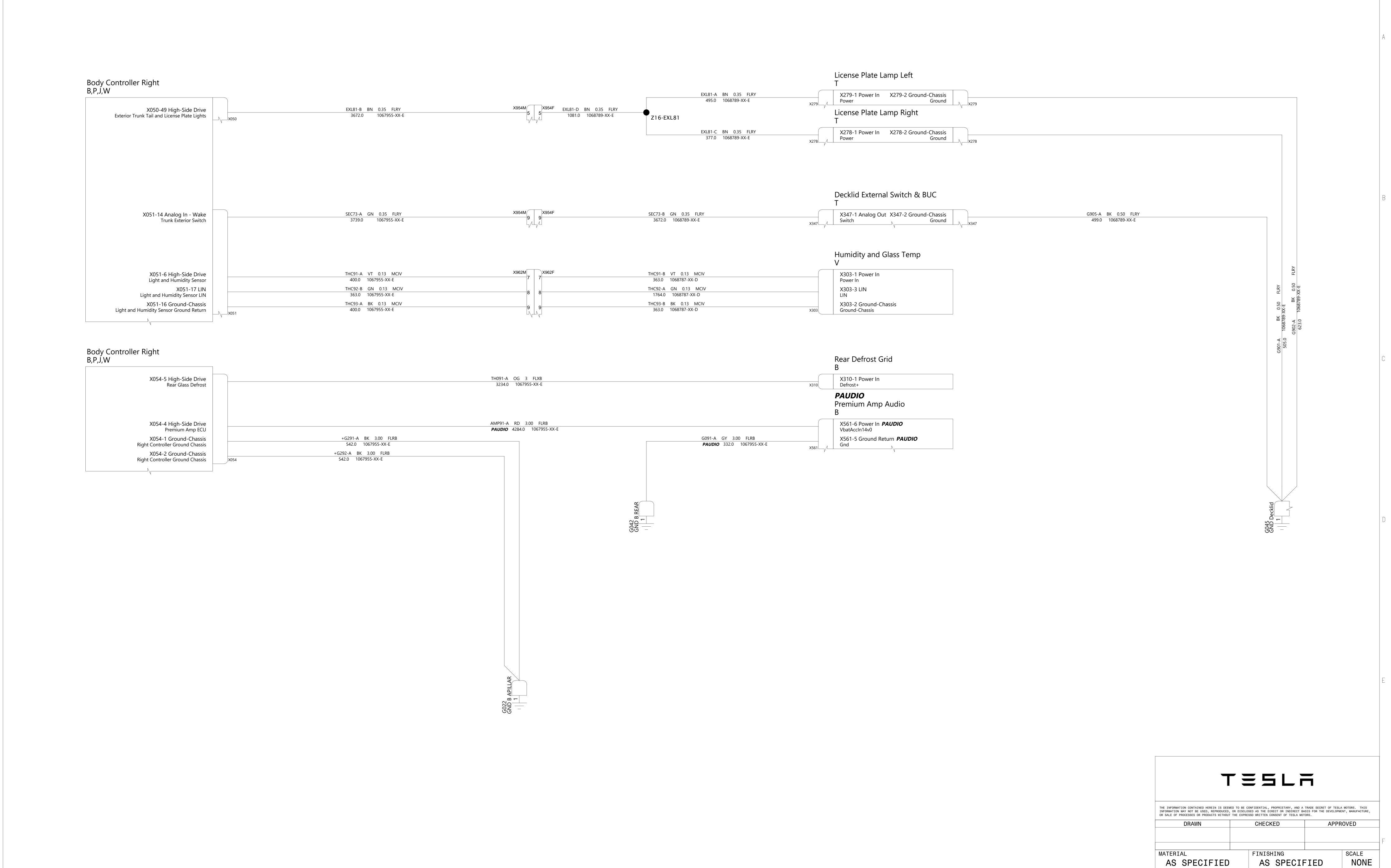
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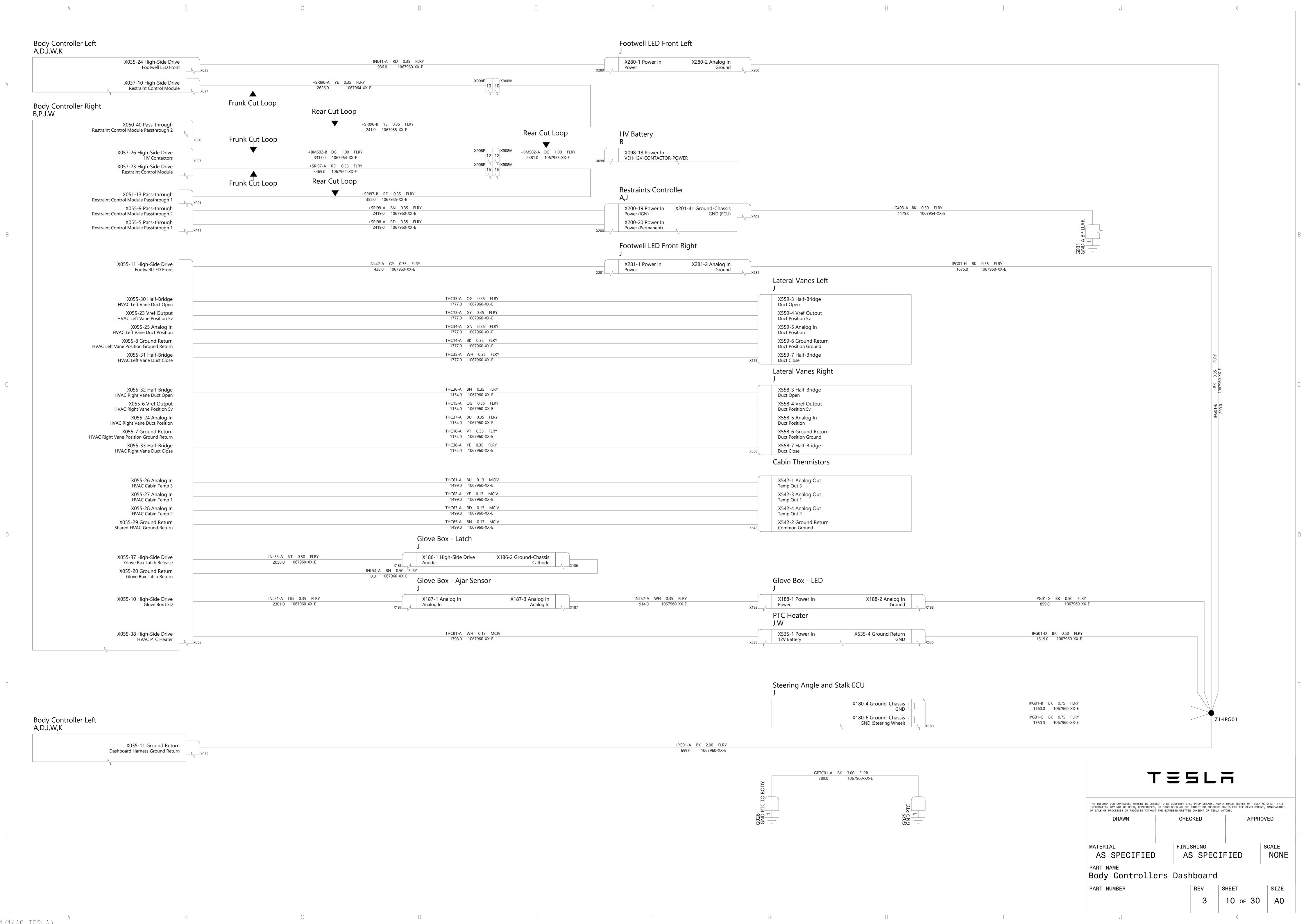


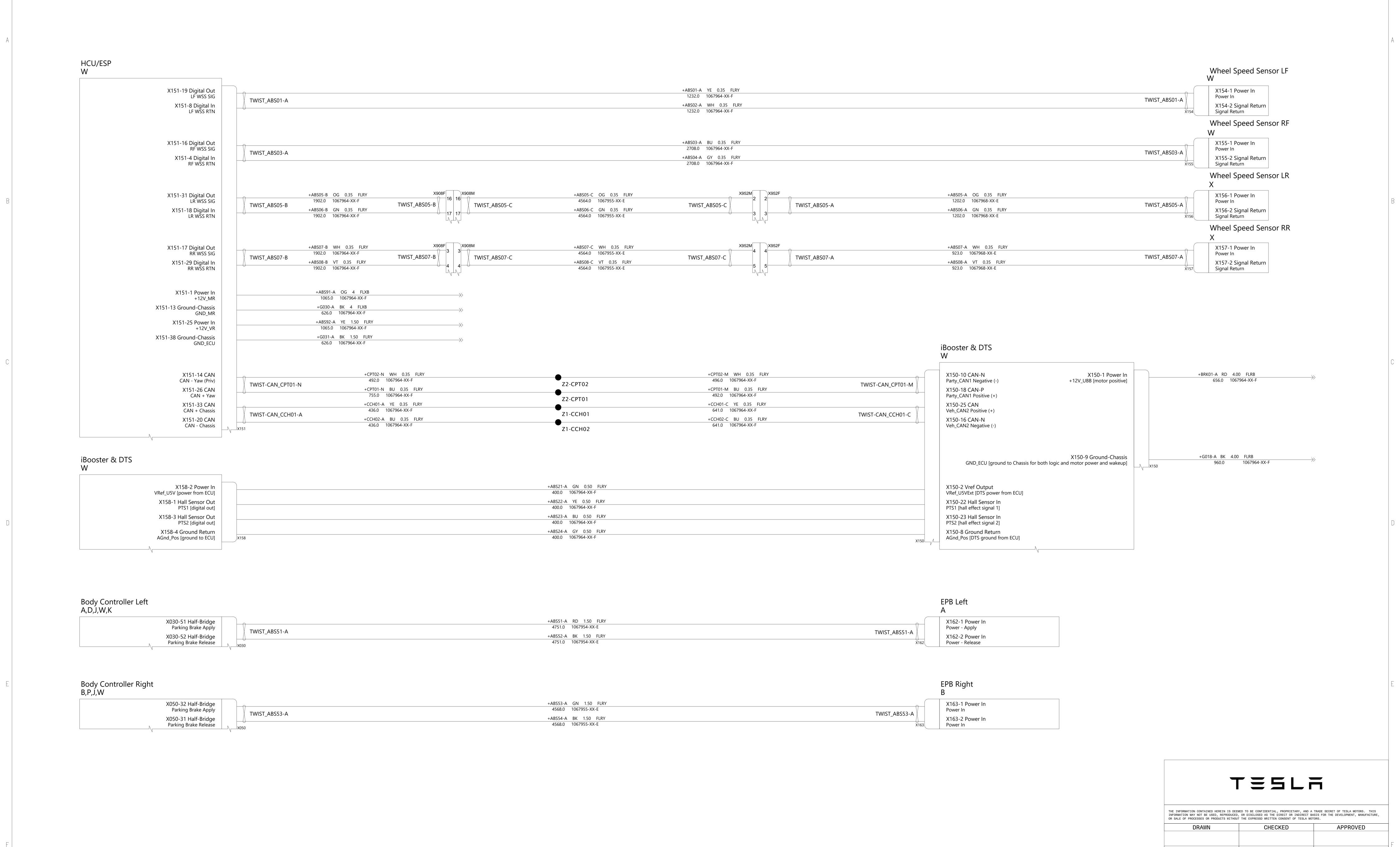
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Body Controller Right J2, J5

SIZE

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PART NAME

Product Controls

MATERIAL

Brake Controls

PART NUMBER REV

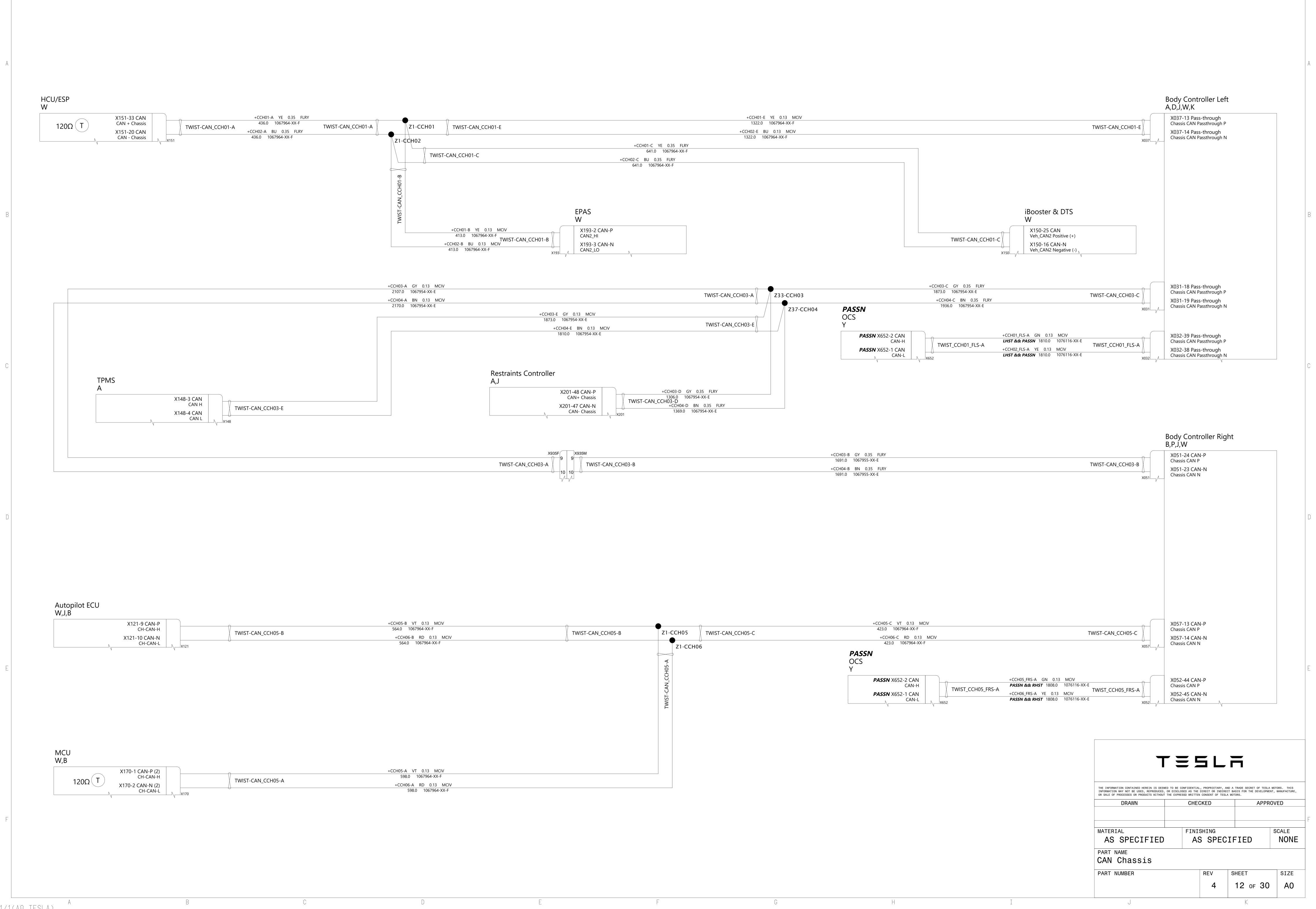
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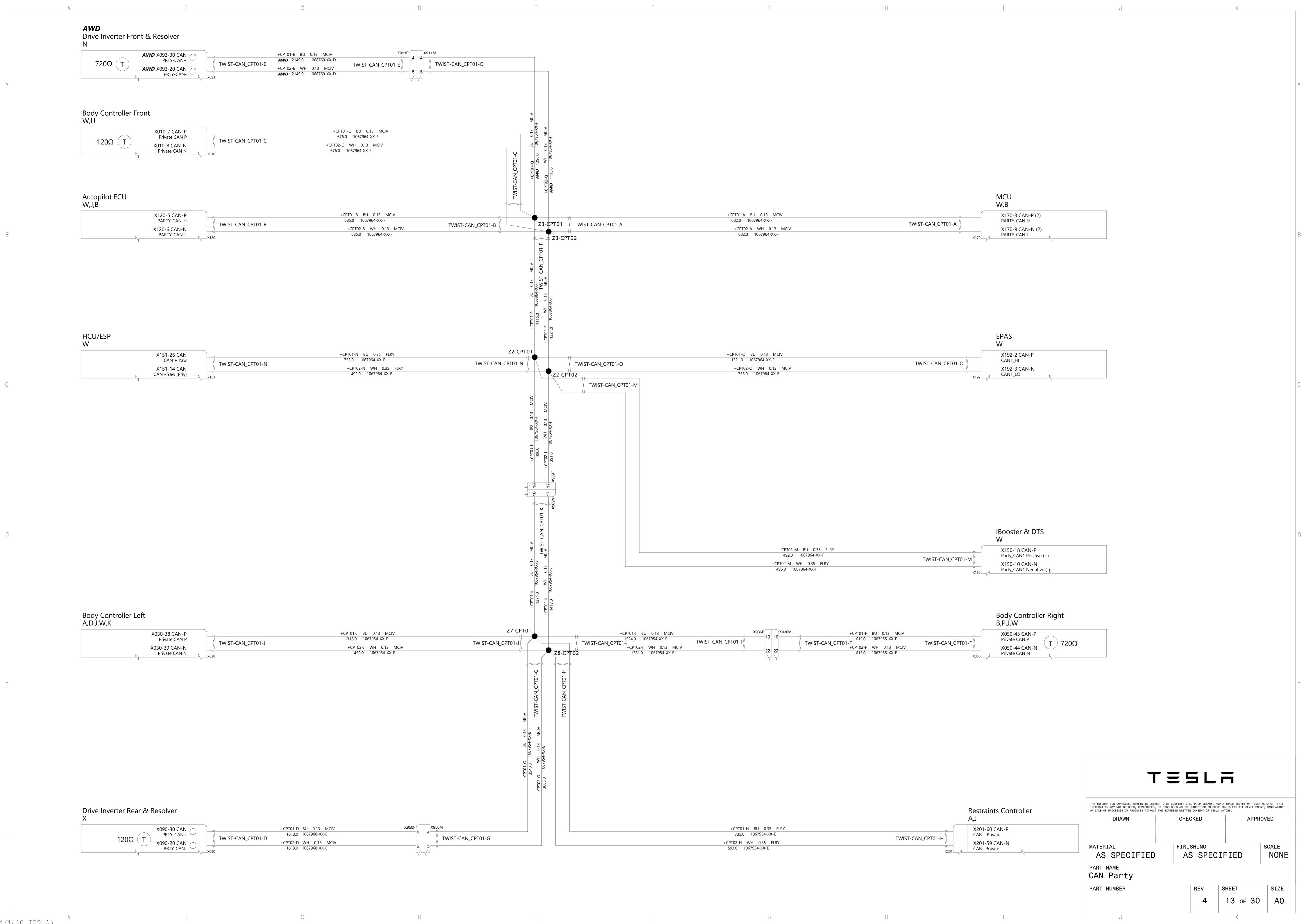
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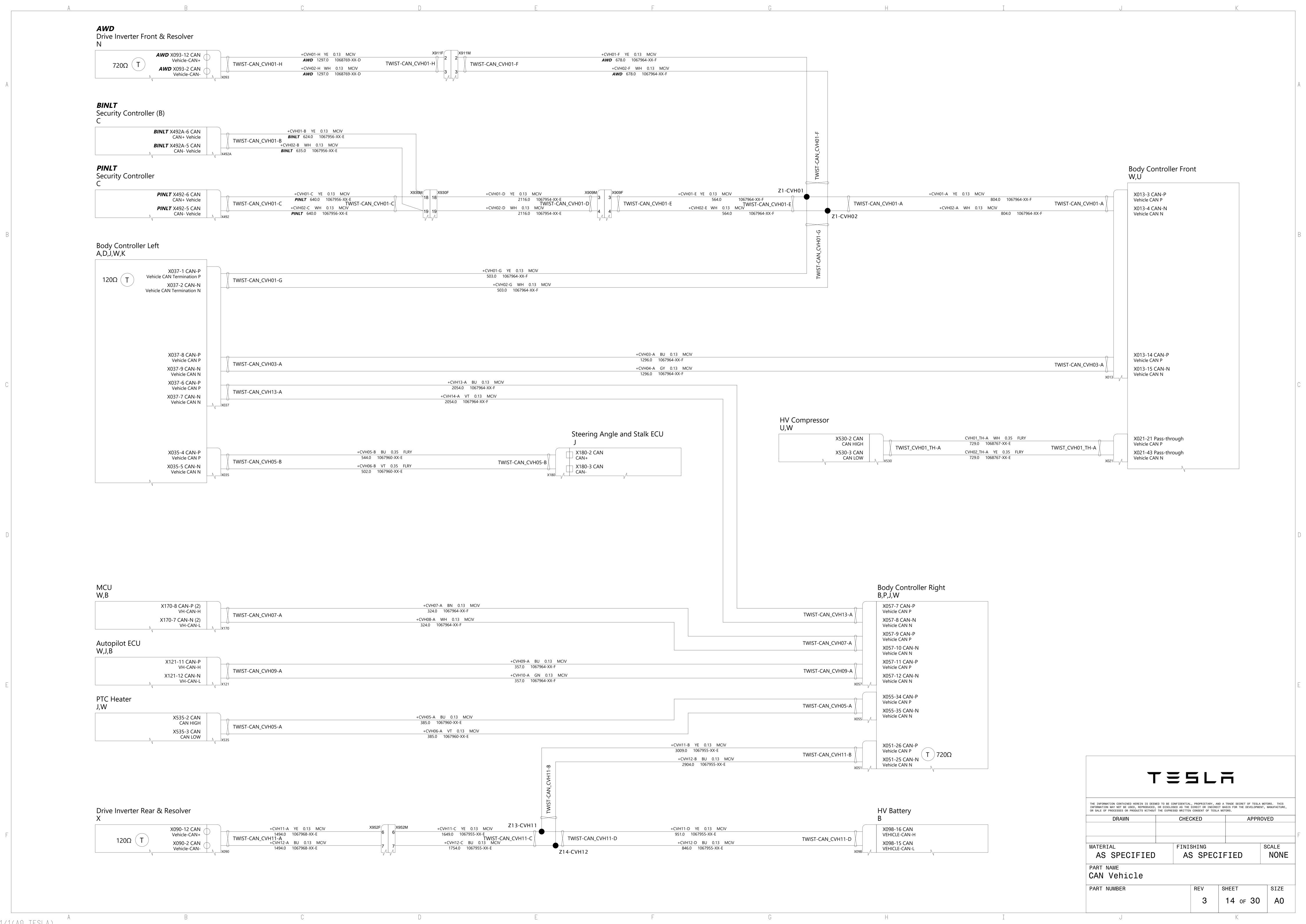
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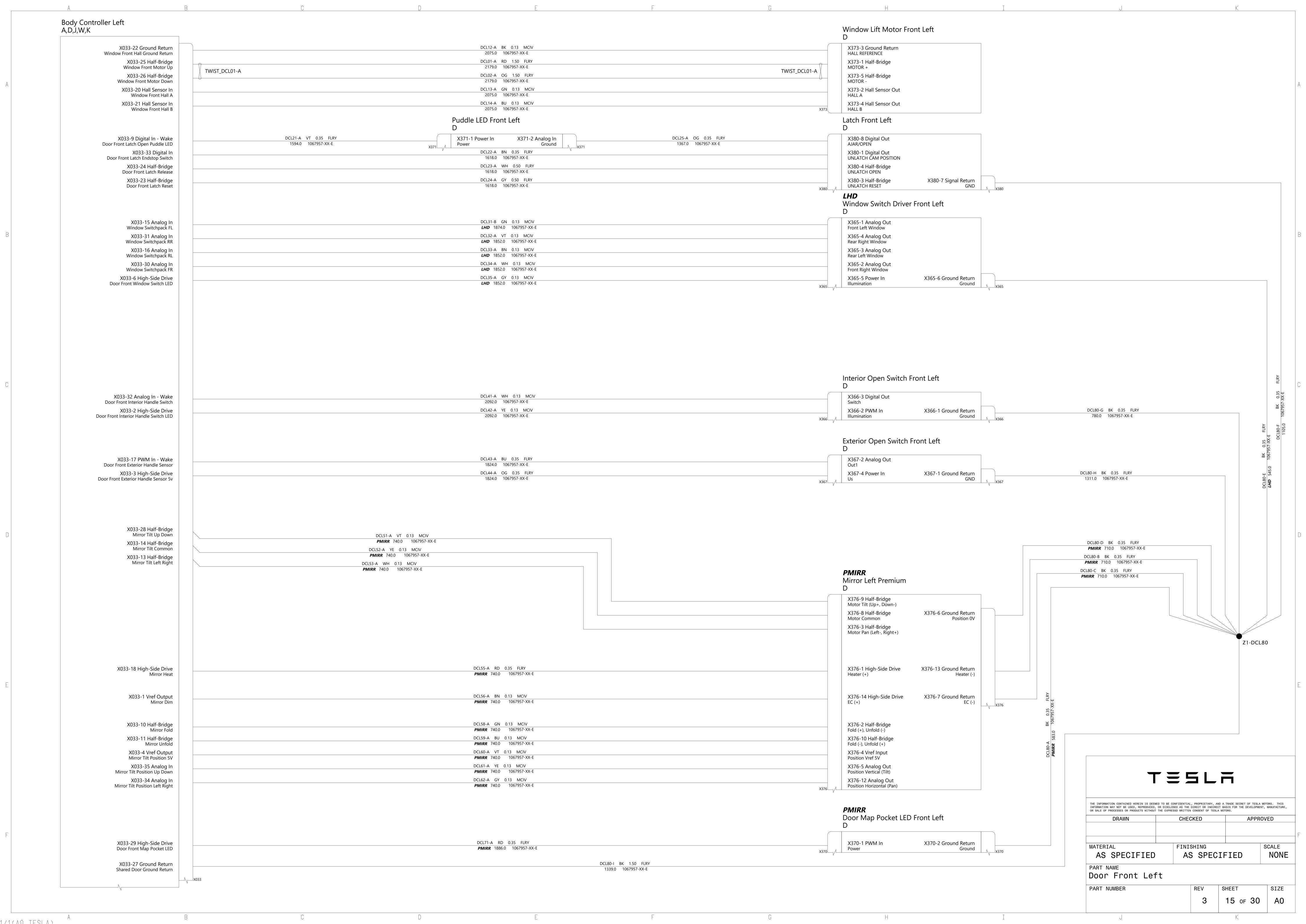
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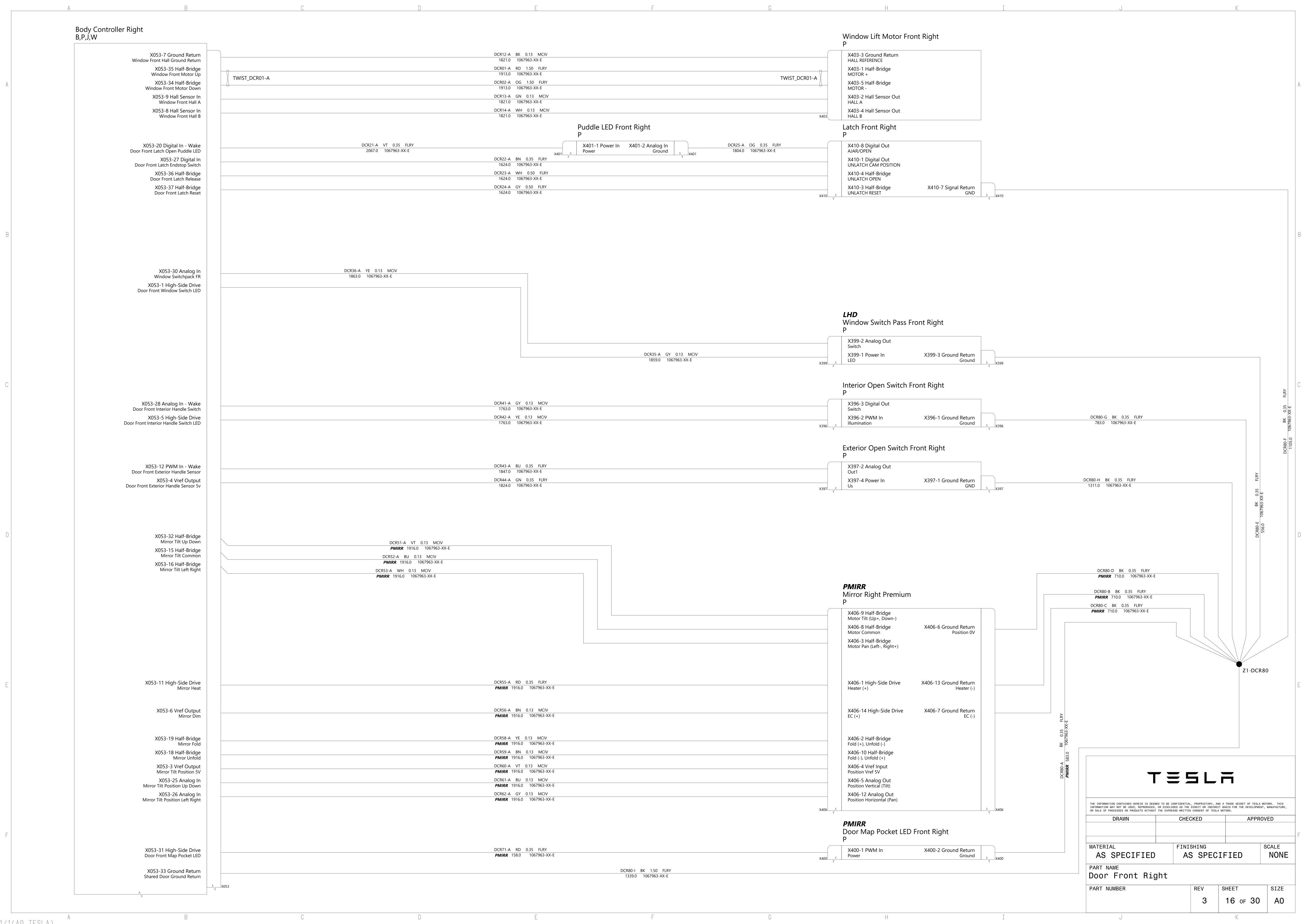
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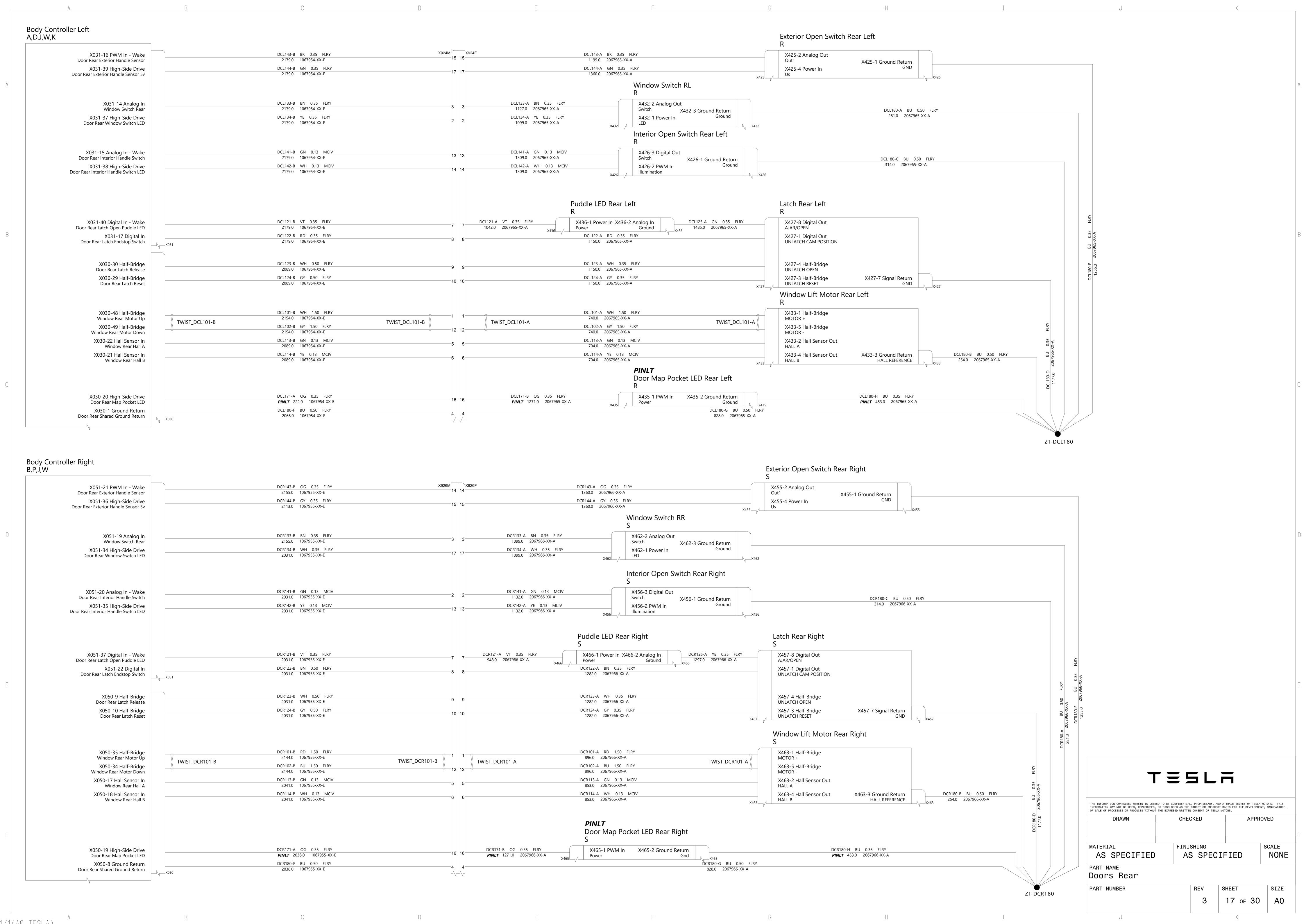


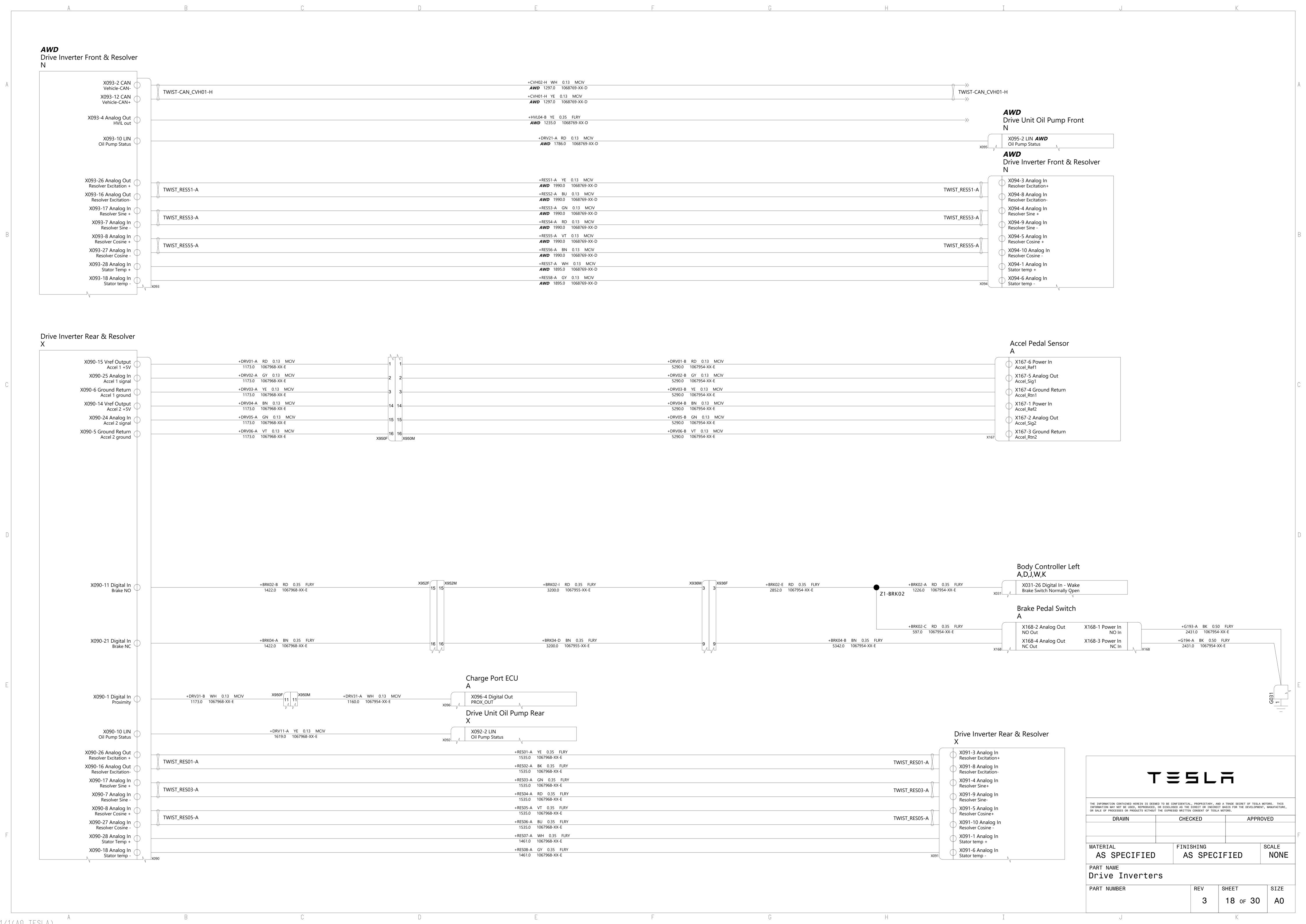


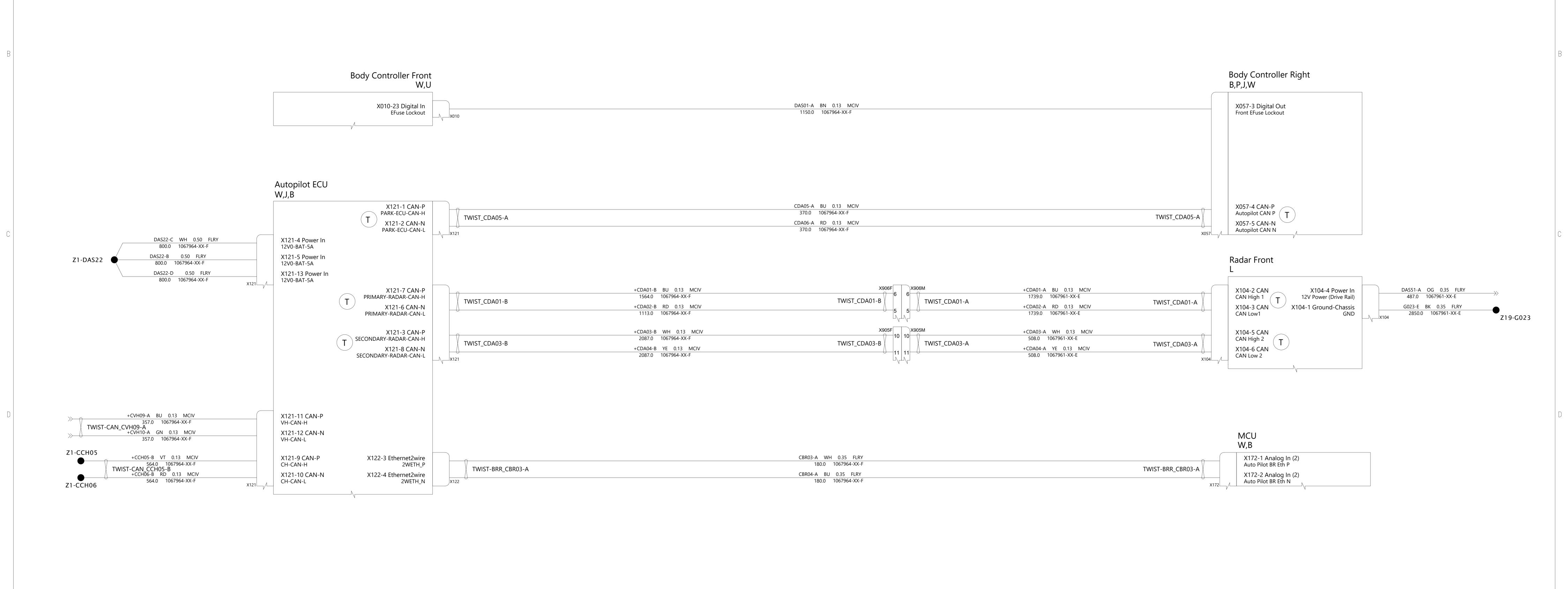












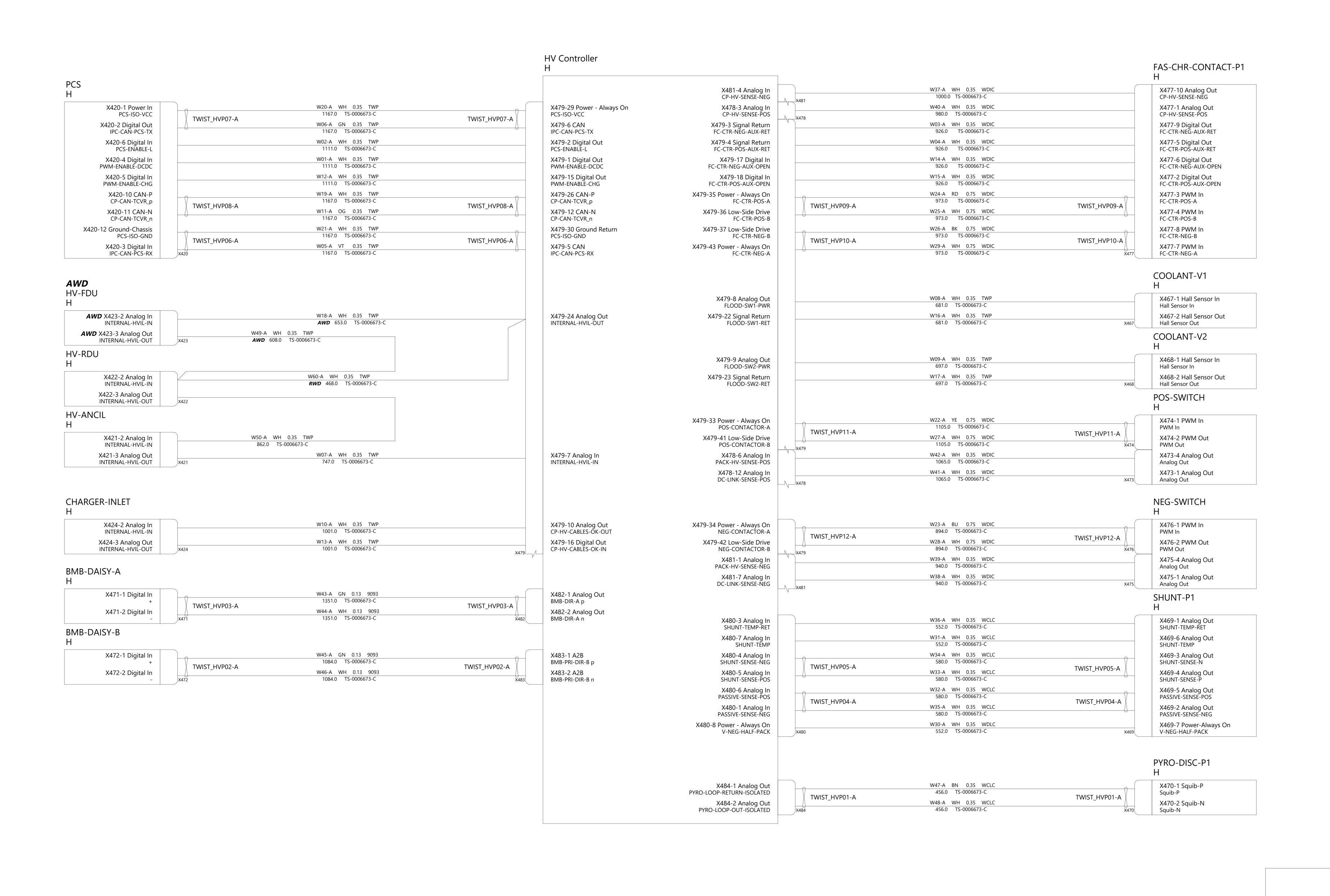
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HV Battery Drive Inverter Rear & Resolver X952M X952F X090-23 Analog In X098-1 Analog Out VEH-HVIL-OUT +HVL01-A RD 0.35 FLRY +HVL01-B RD 0.35 FLRY 2465.0 1067955-XX-E 1422.0 1067968-XX-E HVIL in X090-4 Analog Out +HVL02-B WH 0.35 FLRY 1422.0 1067968-XX-E **HVIL** out X090 X908M X908F X098-3 Analog In +HVL05-A OG 0.35 FLRY 19 19 2384.0 1067955-XX-E VEH-HVIĽ-IN **Restraints Controller** X936M X936F X201-42 PWM Out X098-13 Digital In RCM-ENS-IN +ENS20-A RD 0.13 MCIV +ENS20-B RD 0.35 FLRY 25 25 Emergency/Crash Notification Signal 1142.0 1067955-XX-E 1051.0 1067954-XX-E X098-15 CAN +CVH12-D BU 0.13 MCIV VEHICLE-CAN-L 846.0 1067955-XX-E TWIST-CAN_CVH11-D Z14-CVH12 X098-16 CAN +CVH11-D YE 0.13 MCIV VEHICLE-CAN-H 951.0 1067955-XX-E Z13-CVH11 X098-8 Power In +BMS01-A YE 0.35 FLRY VEH-12V-BAT 2381.0 1067955-XX-E Body Controller Right **Body Controller Front** B,P,J,W X098-12 Digital In X057-6 Pass-through X010-44 Digital Out PCS02-A GN 0.13 MCIV X051-9 Pass-through PCS01-A GN 0.13 MCIV PCS Lockout PCS Lockout Passthrough PCS Lockout Passthrough 1150.0 1067964-XX-F 2463.0 1067955-XX-E Front To PCS Enable X051___/ G408-A BK 0.75 FLRY 965.0 1067955-XX-E X098-9 Ground Return VEH-12V-BAT-GND **HV** Compressor X540-1 Analog In +HVL02-A WH 0.35 FLRY 1289.0 1067964-XX-F HVIL + X540-2 Analog In +HVL03-A BN 0.35 FLRY X540 **AWD** 1554.0 1067964-XX-F HVIL -GND B G032 Charge Port ECU X935M X098-7 CAN-P +CCP01-B GN 0.13 MCIV +CCP01-A GN 0.13 MCIV X096-8 CAN-P CP-CAN-H 1208.0 1067955-XX-E CP_CAN_H 4244.0 1067954-XX-E TWIST-CAN_CCP01-B TWIST-CAN_CCP01-B X096-7 CAN-N X098-6 CAN-N +CCP02-A BK 0.13 MCIV +CCP02-B BK 0.13 MCIV 1208.0 1067955-XX-E 4244.0 1067954-XX-E CP_CAN_L CP-CAN-L X936F X936M X096-5 Digital In CP_LATCH_EN X098-11 Digital Out CP-LATCH-EN +CCP03-A RD 0.13 MCIV +CCP03-B RD 0.13 MCIV --|13 | 13|-- 1150.0 1067955-XX-E 4041.0 1067954-XX-E X098-10 Digital In CP-FAULT X096-6 Digital Out CP_FAULT_L +CCP04-B YE 0.13 MCIV +CCP04-A YE 0.13 MCIV 1150.0 1067955-XX-E 4041.0 1067954-XX-E X096___/_ **AWD** Drive Inverter Front & Resolver Charge Port Inlet, SAE X093-23 Analog In +HVL03-B BN 0.35 FLRY **AWD** 1235.0 1068769-XX-D HVIL in X093-4 Analog Out +HVL04-B YE 0.35 FLRY **AWD** 1235.0 1068769-XX-D HVIL out X311-PROX Analog Out HVI11 YE/GY 0.50 FLRY X688-4 Analog In X093 652.0 1096173-00-B Prox-IN-1-H HVI12 YE/GY 0.50 FLRY X688-7 Analog In 652.0 1096173-00-B Prox-IN-1-L X311-PILOT PWM Out X688-16 PWM In HVI13 WH/VT 0.50 FLRY 652.0 1096173-00-B PILOT-IN-1 X311-GND Ground Chassis HVI14 GN 0.50 FLRY X688-18 Ground Return 652.0 1096173-00-B EVSE-PE HVI15 GN 8 XLPE G043-1 Ground-Return 399.0 1096173-00-В Ground X316-1 Analog Out HVI05 WH 0.35 FLRY X688-20 Analog In TEMP-IN-1 630.0 1096173-00-B Temp-In-1 X316-2 Ground-Return HVI06 WH/VT 0.50 FLRY X688-14 Ground-Chassis 630.0 1096173-00-B Ground GND THERM 1 X317-1 Analog Out HVI07 BK 0.35 FLRY X688-21 Analog In 630.0 1096173-00-B TEMP-IN-2 Temp-In-2 X317-2 Ground-Return HVI08 BK 0.35 FLRY X688-19 Ground Return 636.0 1096173-00-B GND THERM 2 Ground X312-3 High-Side Drive HVI04 VT 0.35 FLRY X688-12 High-Side Drive 839.0 1096173-00-B Latch 1 Drive 1 LATCH 1 DRIVE 1 X312-2 Digital Out Latch 1 Switch HVI03 RD/GN 0.35 FLRY X688-23 Digital In LATCH 1 SWITCH 839.0 1096173-00-B X312-1 High-Side Drive Latch 1 Drive 2 HVI02 BU 0.35 FLRY X688-24 High-Side Drive PTC Heater 839.0 1096173-00-B LATCH 1 DRIVE 2 +HVL04-A YE 0.35 FLRY **AWD** 1597.0 1067964-XX-F X539-1 Analog In HVIL + X539-2 Analog In HVIL -Charge Port Door X539 X690-1 Vref Input CPD02-A BN 0.13 MCIV X687-2 Vref Output 319.0 1099953-00-E 3.3V X690-2 Analog Out CPD10-A WH 0.13 MCIV X687-12 Analog Out 319.0 1099953-00-E UHF X690-3 Digital In LDC-INT CPD06-A GY 0.13 MCIV X687-14 Digital Out 319.0 1099953-00-E LDC-INT X690-4 Ground Return X687-3 Ground Return CPD03-A OG 0.13 MCIV 319.0 1099953-00-E GND GND X690-5 Digital In CPD05-A VT 0.13 MCIV X687-13 Digital Out LDC-SD 319.0 1099953-00-E LDC-SD X687-6 Power Out X690-6 Power In CPD07-A RD 0.13 MCIV 319.0 1099953-00-E LED Red LED Red X690-7 I2C CPD04-A YL 0.13 MCIV X687-4 I2C 319.0 1099953-00-E SCL X690-8 Power In CPD08-A GN 0.13 MCIV X687-7 Power Out 319.0 1099953-00-E LED Green LED Green X687-1 I2C X690-9 I2C CPD01-A BK 0.13 MCIV 319.0 1099953-00-E SDA SDA T = 5 L Fi X690-10 Power In CPD09-A BU 0.13 MCIV X687-8 Power Out LED Blue 319.0 1099953-00-E LED Blue X691-1 Power In CPD11-A RD 0.35 FLRY X687-16 Power Out 247.0 1099953-00-E Door Drive 2 Door Drive 2 THE INFORMATION CONTAINED HEREIN IS DEEMED TO BE CONFIDENTIAL, PROPRIETARY, AND A TRADE SECRET OF TESLA MOTORS. 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FINISHING

AS SPECIFIED

NONE

PART NAME

HV Penthouse

PART NUMBER

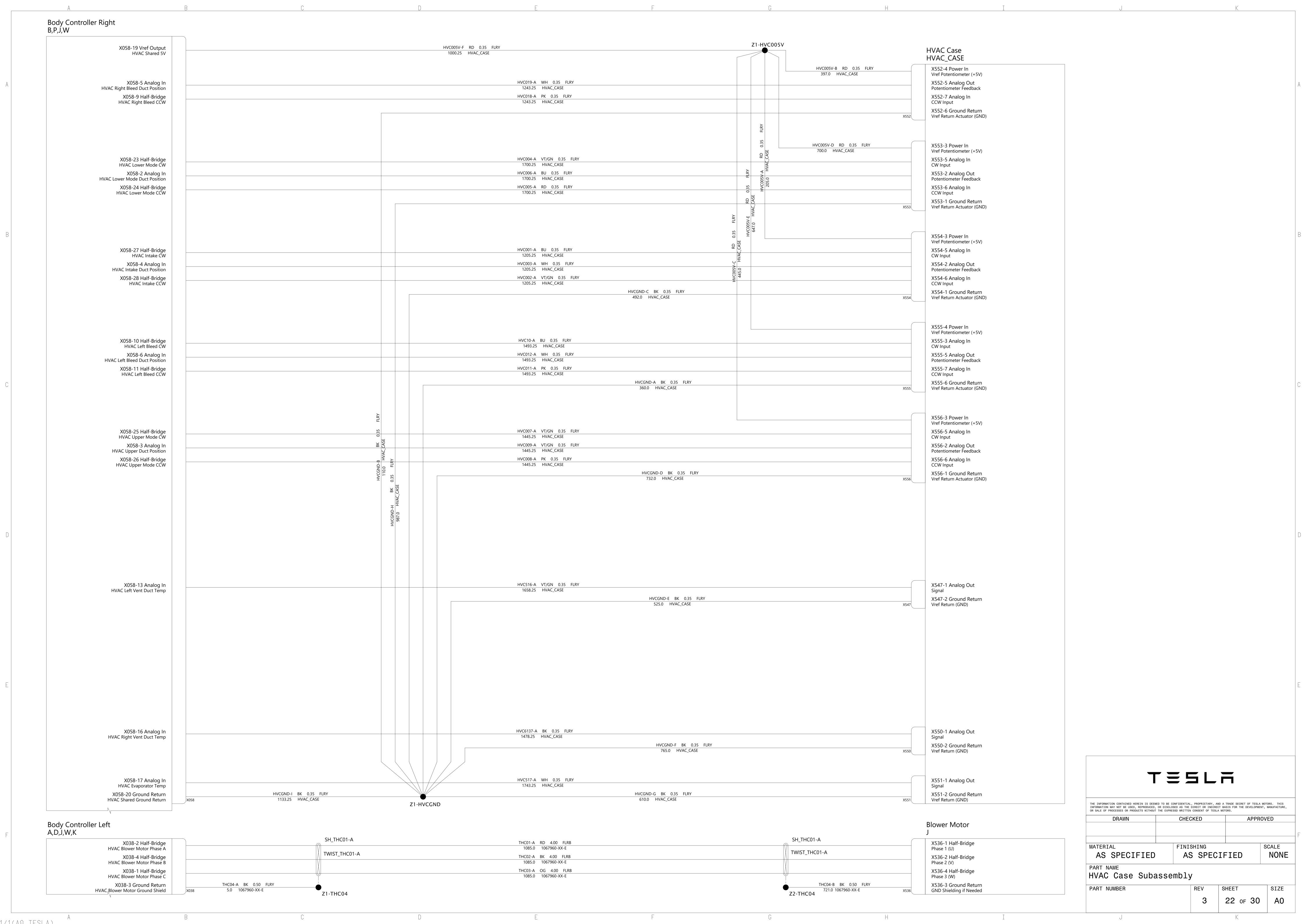
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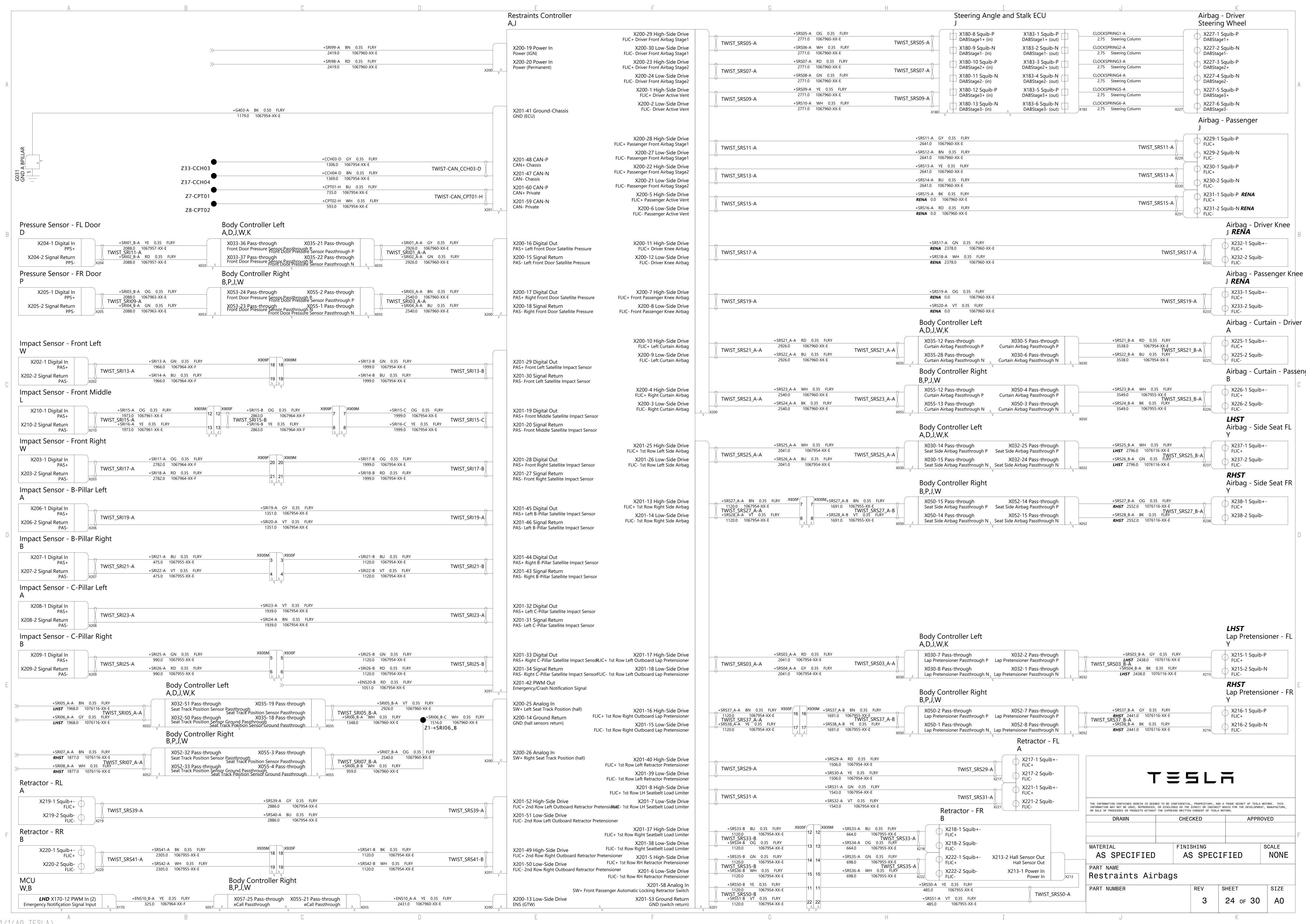
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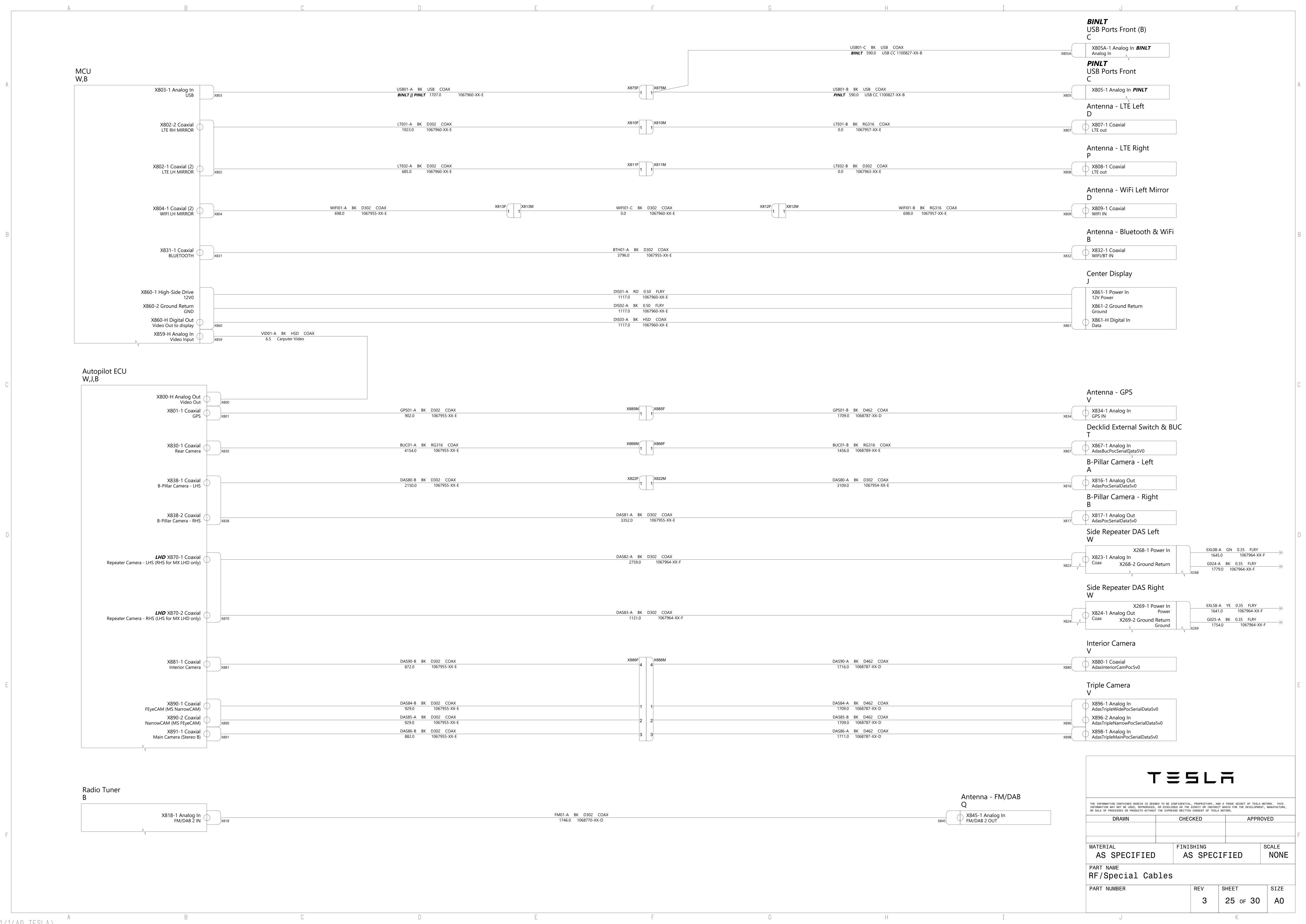
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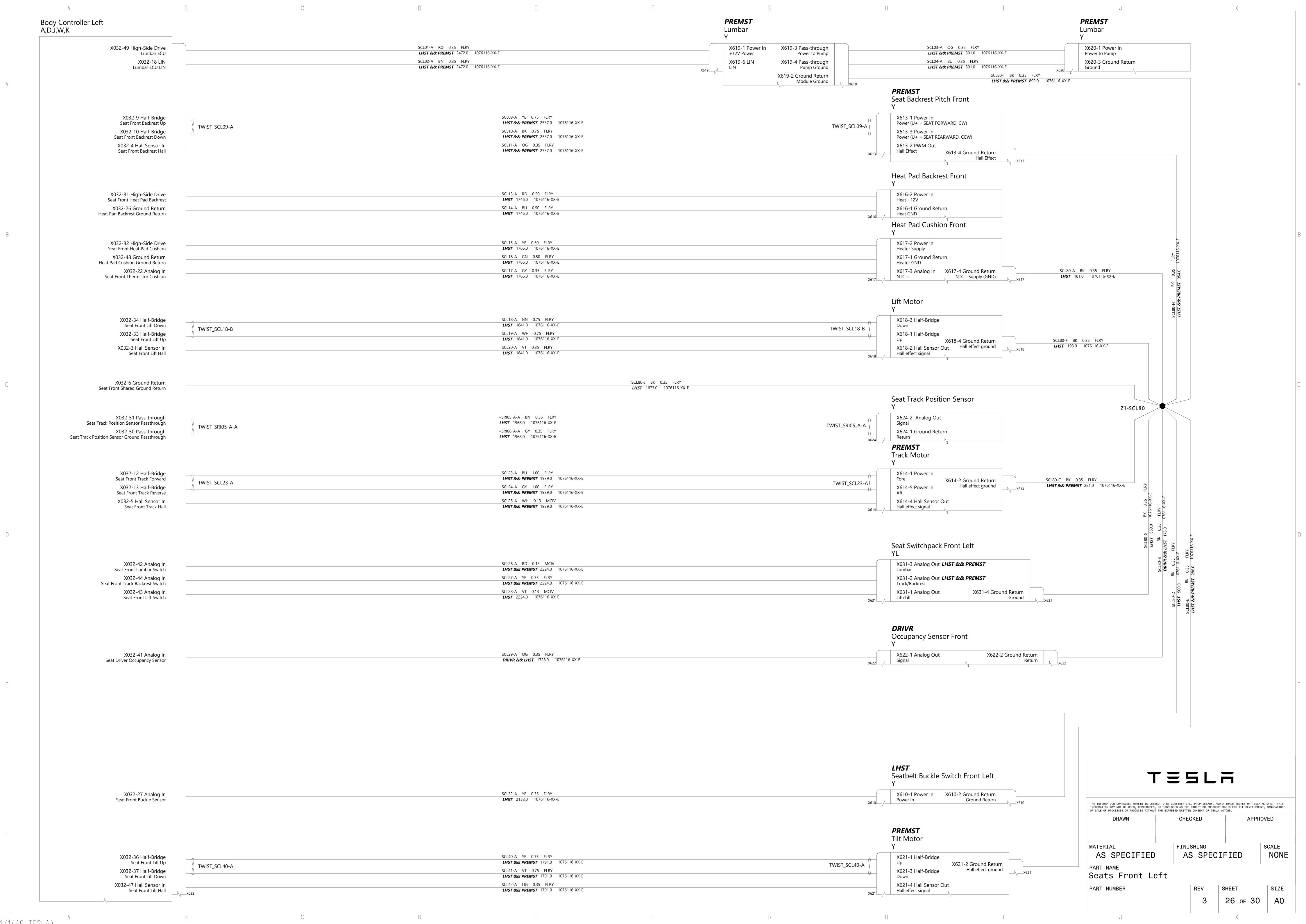


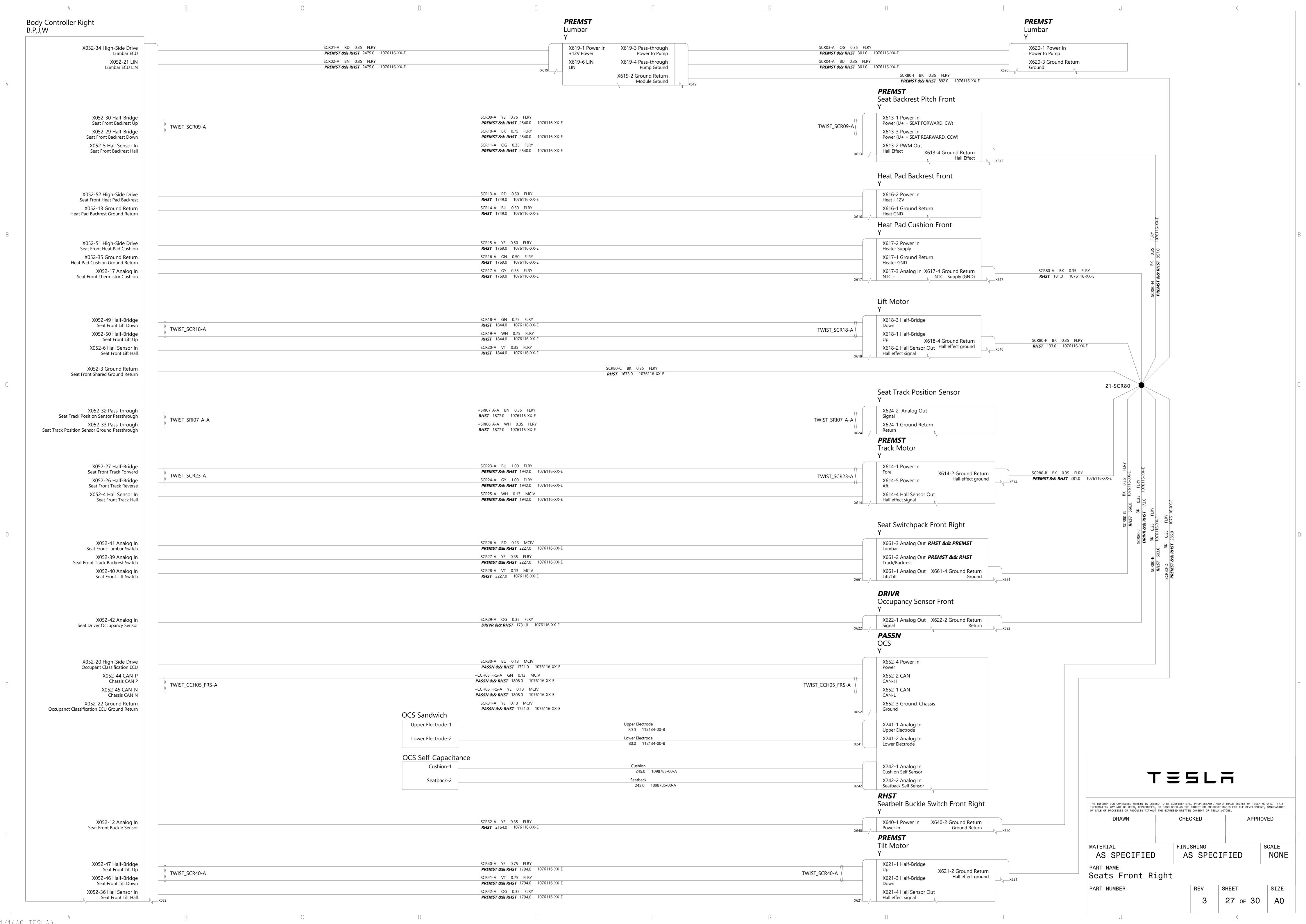
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PINLTSecurity Controller +CVH01-C YE 0.13 MCIV **PINLT** 640.0 1067956-XX-E **PINLT** X492-6 CAN Body Controller Left A,D,J,W,K BLE Driver B-Pillar CAN+ Vehicle TWIST-CAN_CVH01-C TWIST-CAN_CVH01-C **PINLT** X492-5 CAN CAN- Vehicle +CVH02-C WH 0.13 MCIV **PINLT** 640.0 1067956-XX-E X030-40 High-Side Drive BLE B Pillar X493-1 Power In VBAT X493-2 Ground Return BLE03-A BU 0.13 MCIV 2828.0 1067954-XX-E GND CSE05-A GN 0.13 MCIV

BINLT || PINLT 2615.0 1067954-XX-E** **PINLT** X492-3 CAN CAN+ Left BLE CSE05-B GN 0.13 MCIV

PINLT 640.0 1067956-XX-E X493-4 CAN CANH TWIST_CSE05-A TWIST_CSE05-A TWIST_CSE05-A TWIST_CSE05-A CSE06-A VT 0.13 MCIV

BINLT || PINLT 2615.0 1067954-XX-E CSE06-B VT 0.13 MCIV **PINLT** 640.0 1067956-XX-E X493-3 CAN CANL **PINLT** X492-4 CAN CAN- Left BLE X930M 14 14 X930F Body Controller Right B,P,J,W BLE Passenger B-Pillar X050-43 High-Side Drive BLE B Pillar X494-2 Ground Return GND BLE02-A YE 0.13 MCIV X494-1 Power In G409-A BK 0.50 FLRY 1224.0 1067955-XX-E 2848.0 1067955-XX-E **VBAT** CSE03-C WH 0.13 MCIV CSE03-A WH 0.13 MCIV

BINLT || PINLT 1621.0 1067955-XX-E **PINLT** X492-7 CAN CAN+ Right BLE X936F X494-4 CAN CSE03-B WH 0.13 MCIV **PINLT** 640.0 1067956-XX-E **BINLT || PINLT** 1225.0 1067954-XX-E CANH TWIST_CSE03-A TWIST_CSE03-A TWIST_CSE03-C **PINLT** X492-8 CAN CAN- Right BLE CSE04-A BU 0.13 MCIV CSE04-C BU 0.13 MCIV X494-3 CAN CSE04-B BU 0.13 MCIV 20 20 **BINLT || PINLT** 1621.0 1067955-XX-E **PINLT** 640.0 1067956-XX-E **BINLT || PINLT** 1225.0 1067954-XX-E CANL X930M X930F **BLE Rear** Body Controller Left A,D,J,W,K X030-34 High-Side Drive BLE Rear X497-4 Power In X497-3 Ground-Chassis BLE04-A RD 0.50 FLRY 5329.0 1067954-XX-E **VBAT** GND X497-2 CAN-P **PINLT** X492-10 CAN CSE07-B BU 0.13 MCIV CSE07-A BU 0.13 MCIV CAN+ Rear BLE **PINLT** 640.0 1067956-XX-E **BINLT || PINLT** 5241.0 1067954-XX-E CANH TWIST_CSE07-A TWIST_CSE07-A TWIST_CSE07-A TWIST_CSE07-A X497-1 CAN-N **PINLT** X492-9 CAN CSE08-B GN 0.13 MCIV CSE08-A GN 0.13 MCIV CAN- Rear BLE **BINLT || PINLT** 5241.0 1067954-XX-E **PINLT** 640.0 1067956-XX-E CANL X930M X930F **BINLT** Security Controller (B) **BINLT** X492A-6 CAN +CVH01-B YE 0.13 MCIV **BINLT** 624.0 1067956-XX-E CAN+ Vehicle TWIST-CAN_CVH01-B TWIST-CAN_CVH01-B **BINLT** X492A-5 CAN +CVH02-B WH 0.13 MCIV CAN- Vehicle **BINLT** 635.0 1067956-XX-E **BINLT** X492A-3 CAN CSE05-C GN 0.13 MCIV **BINLT** 624.0 1067956-XX-E CAN+ Left BLE TWIST_CSE05-B CSE06-C VT 0.13 MCIV **BINLT** X492A-4 CAN CAN- Left BLE **BINLT** 624.0 1067956-XX-E **BINLT** X492A-7 CAN CSE03-D WH 0.13 MCIV **BINLT** 624.0 1067956-XX-E CAN+ Right BLE TWIST_CSE03-B **BINLT** X492A-8 CAN CSE04-D BU 0.13 MCIV CAN- Right BLE **BINLT** 624.0 1067956-XX-E **BINLT** X492A-10 CAN CSE07-C BU 0.13 MCIV CAN+ Rear BLE **BINLT** 624.0 1067956-XX-E TWIST_CSE07-B **BINLT** X492A-9 CAN CAN- Rear BLE CSE08-C GN 0.13 MCIV **BINLT** 624.0 1067956-XX-E

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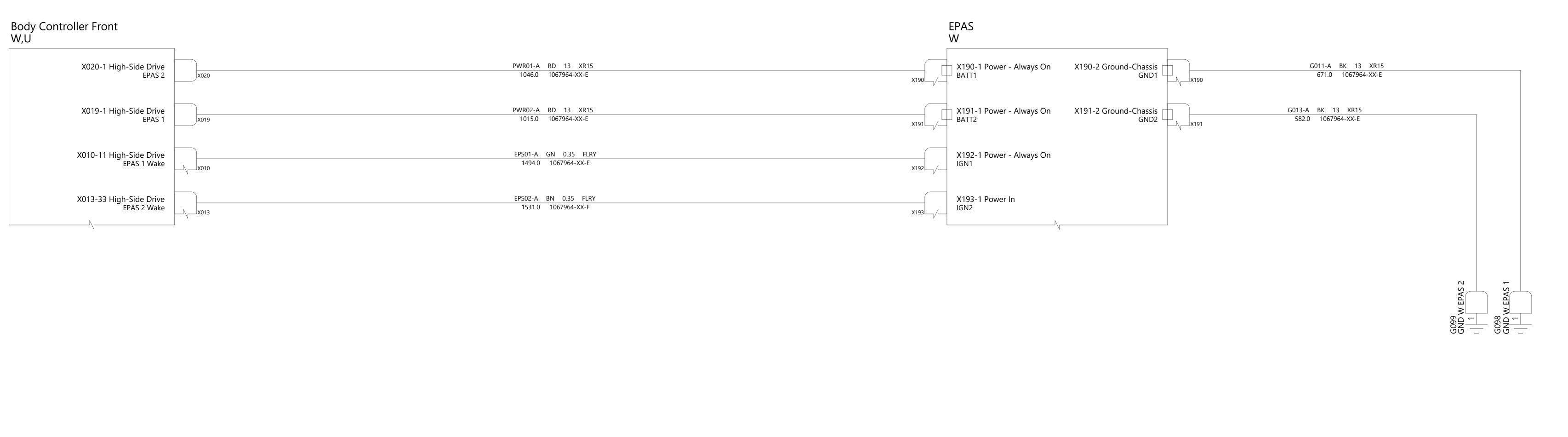
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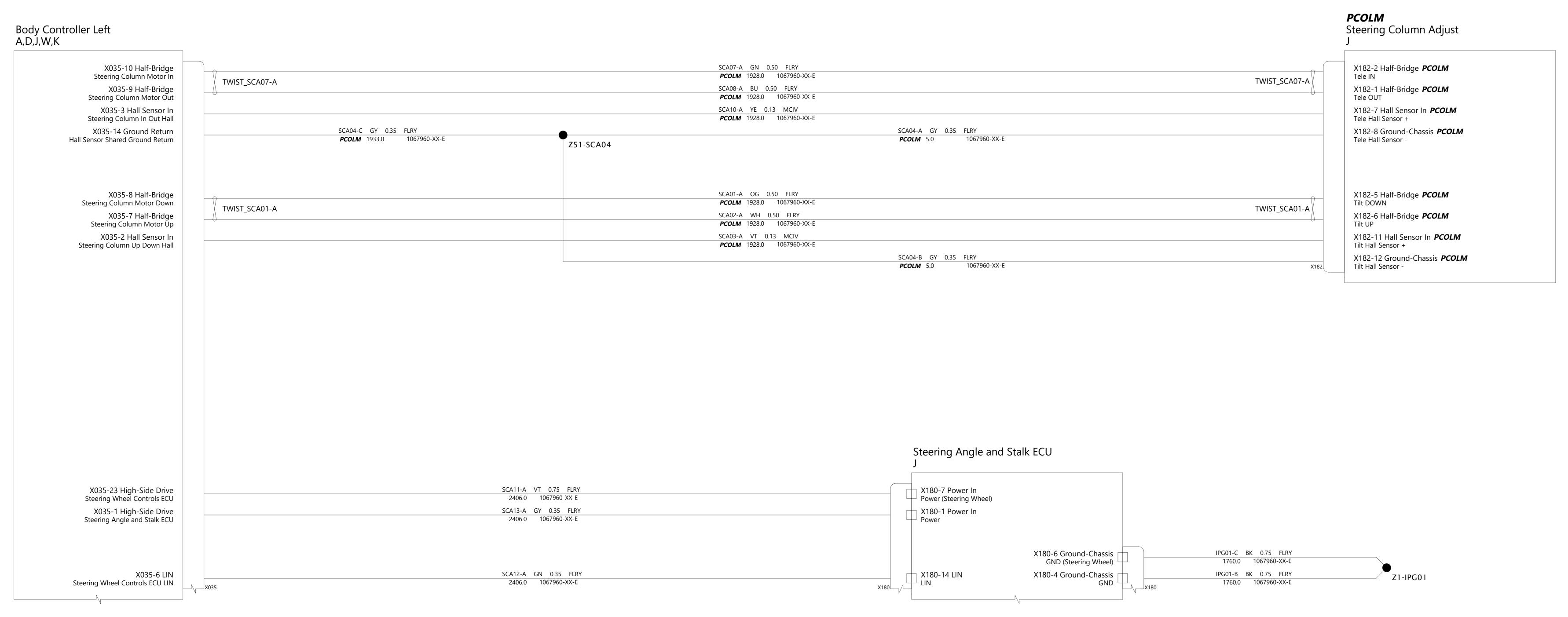
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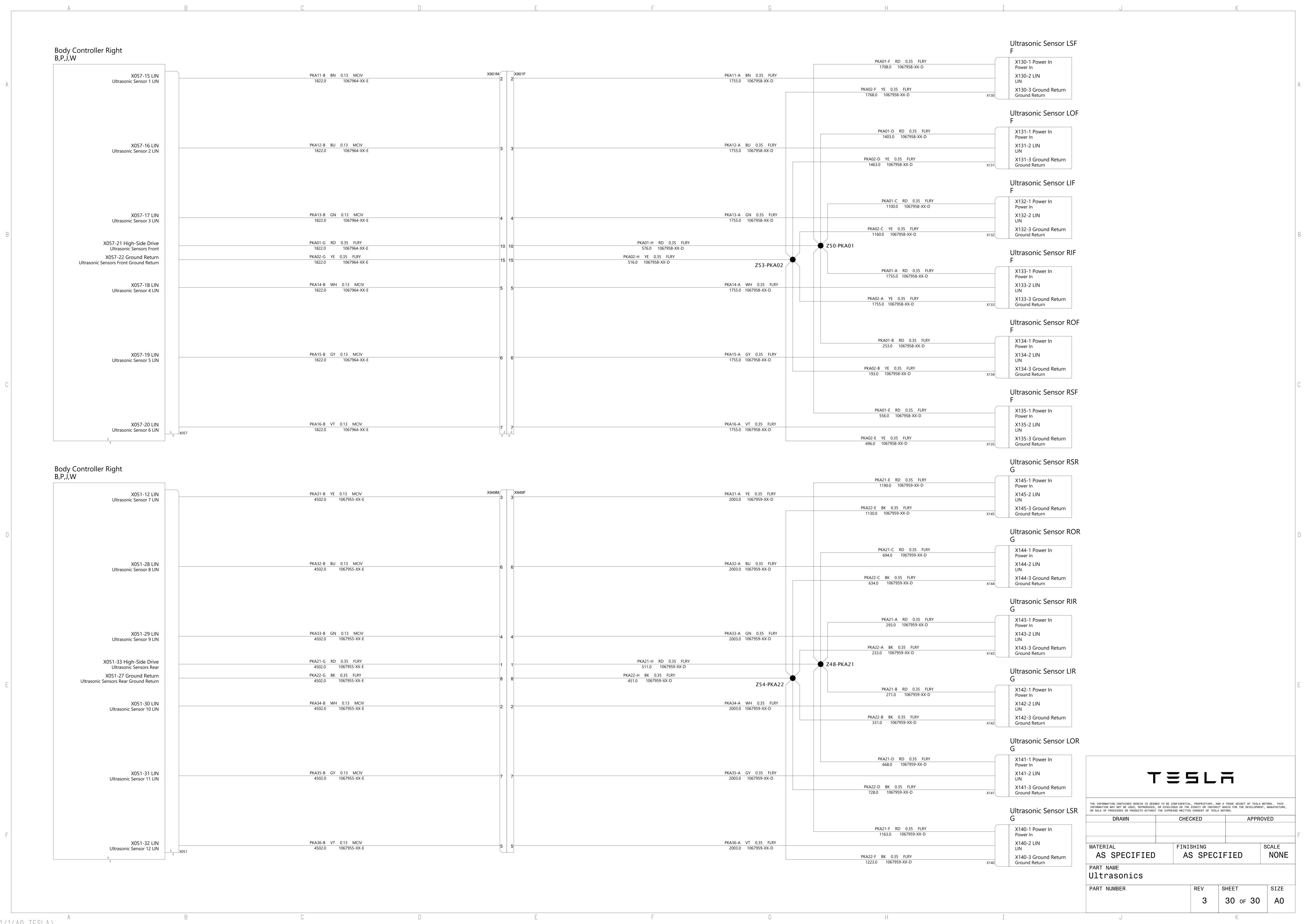
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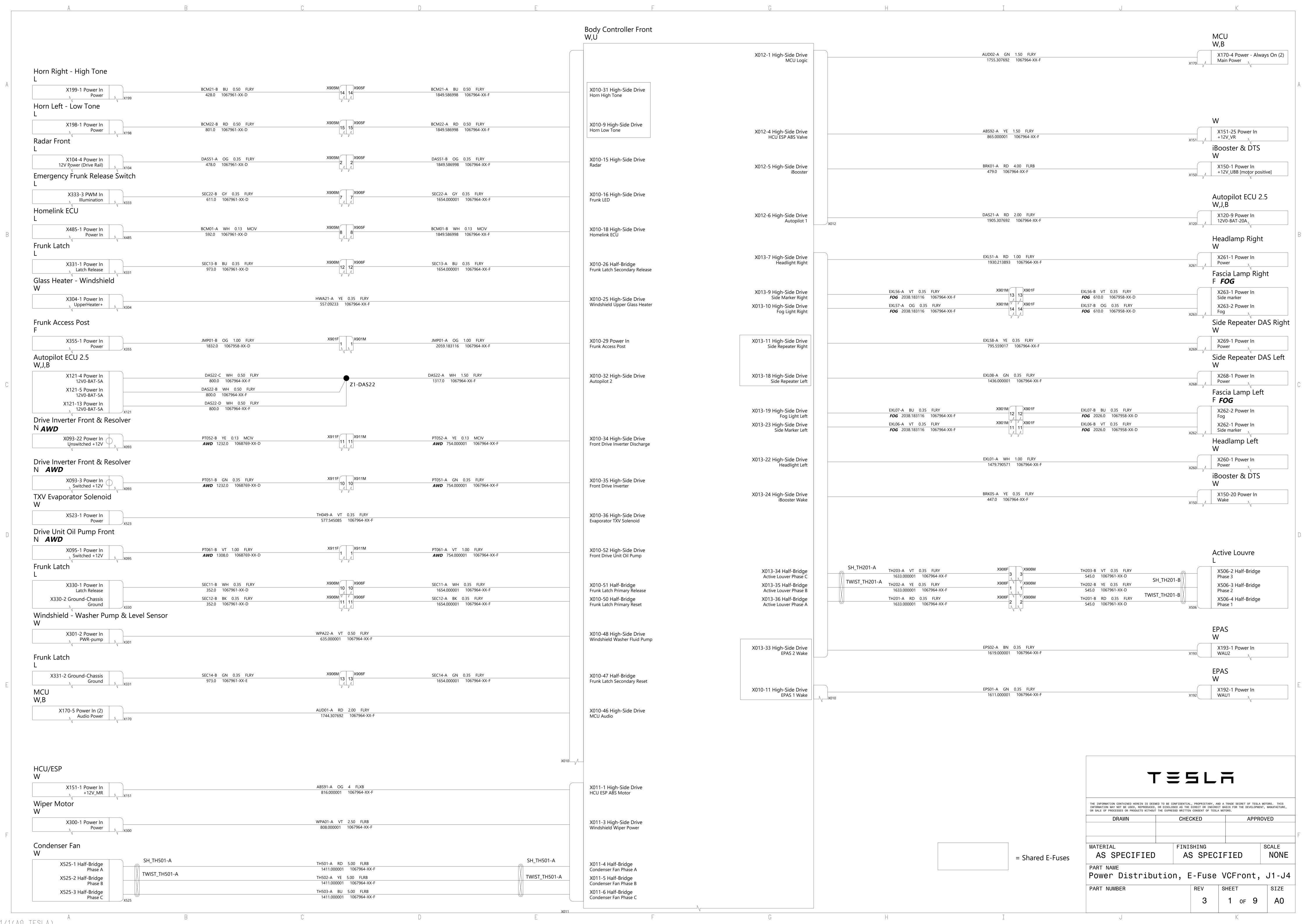
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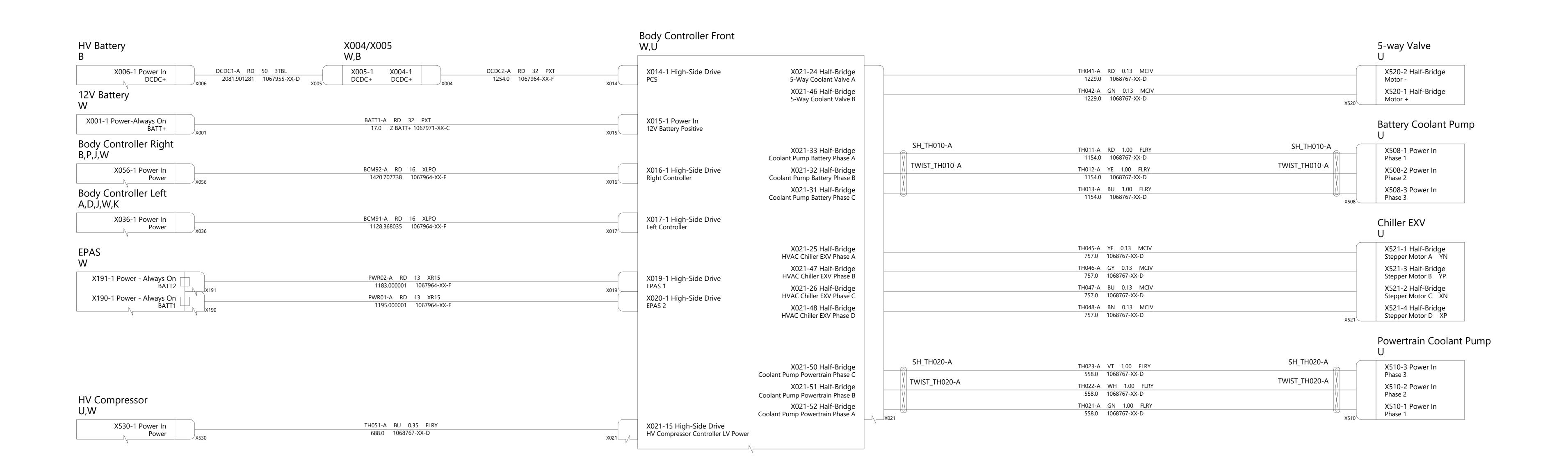
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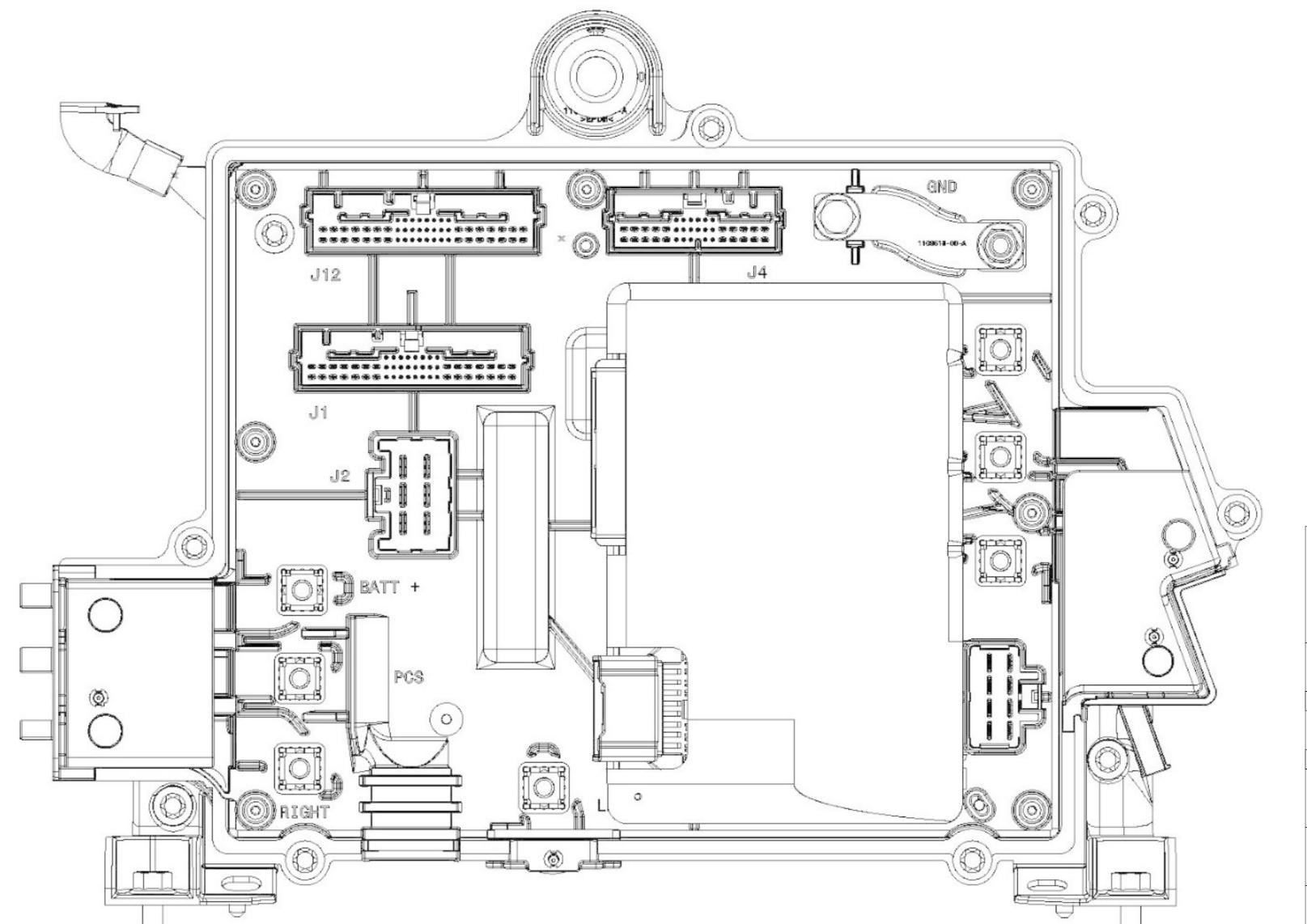
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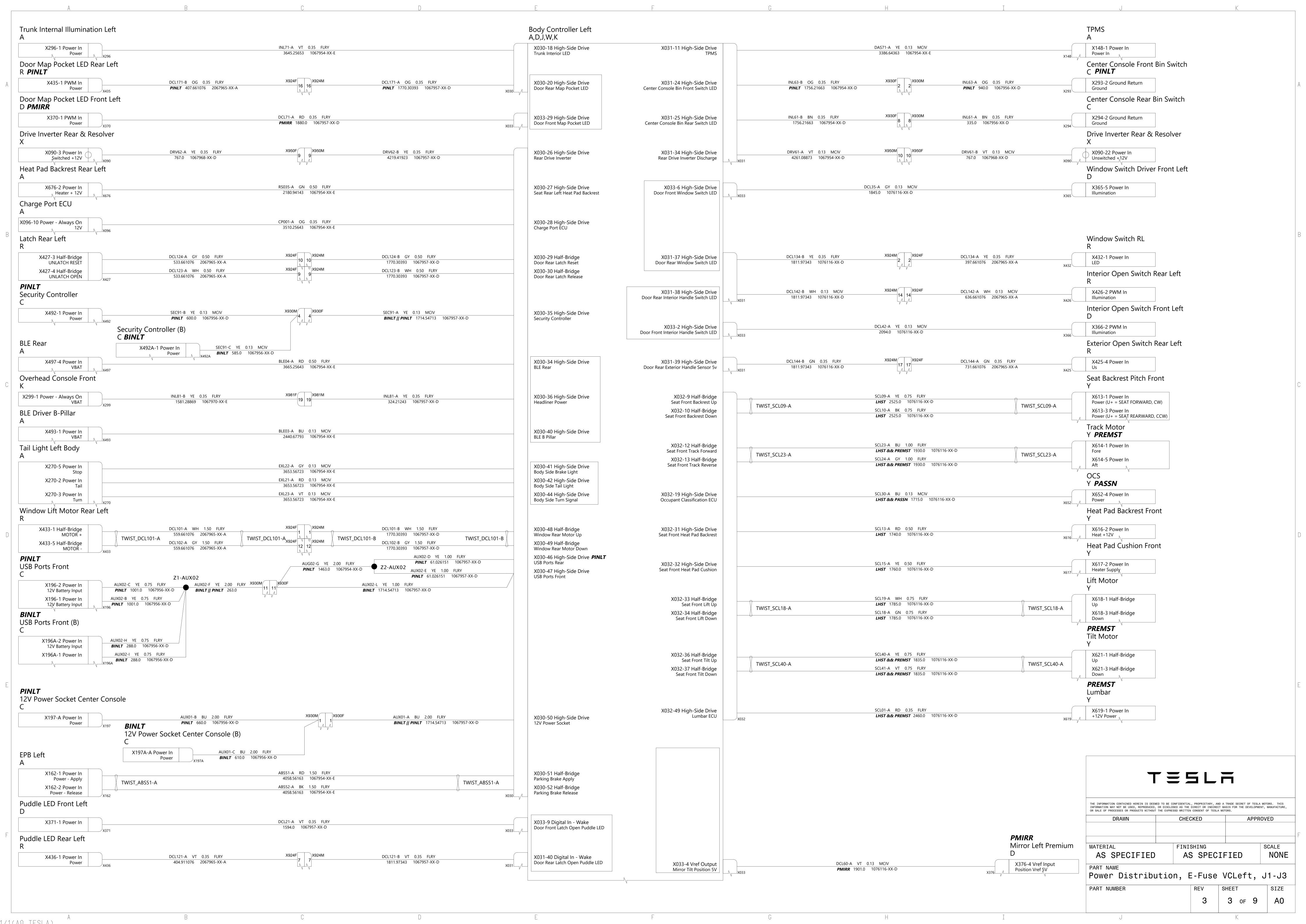
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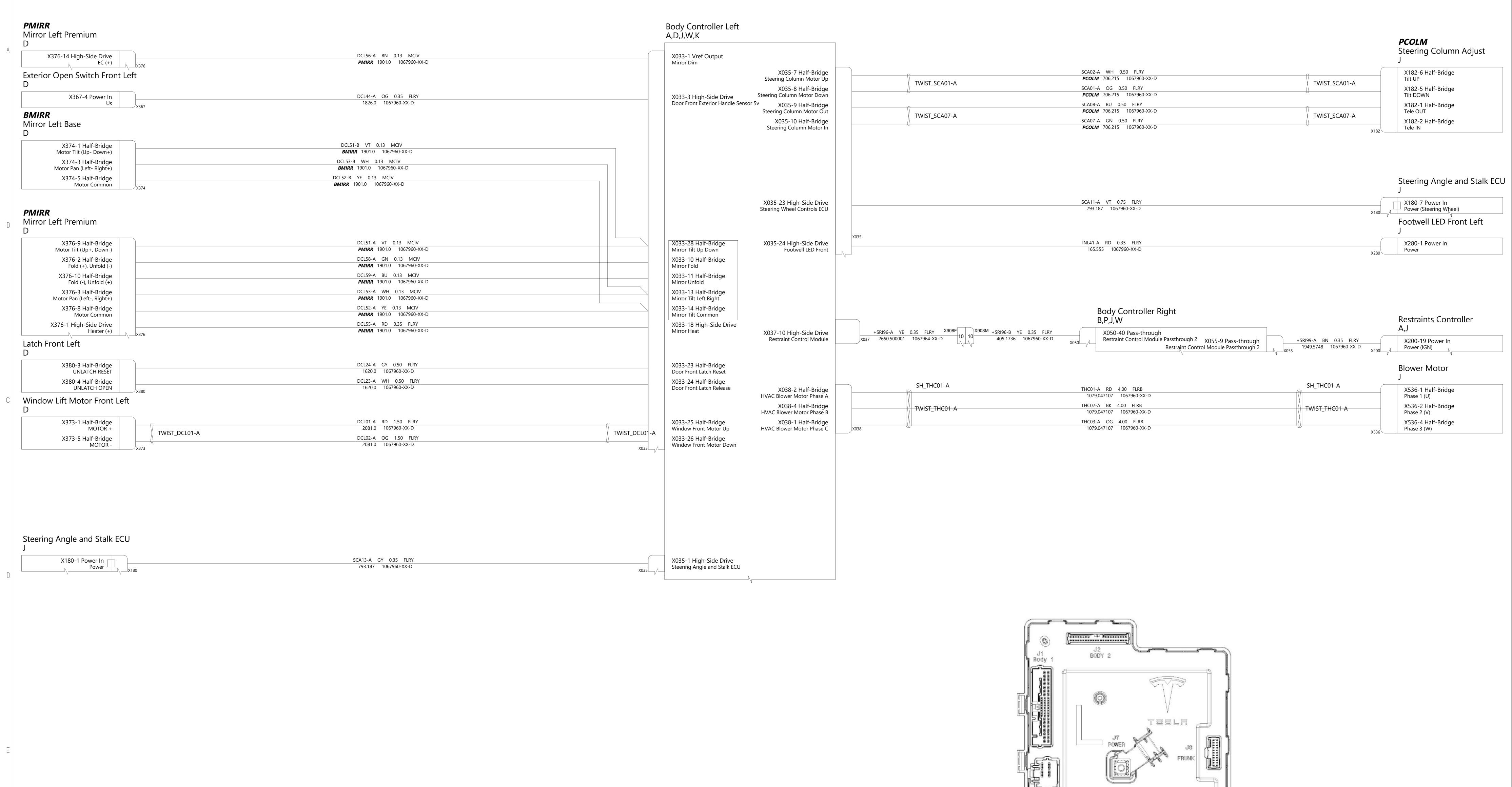
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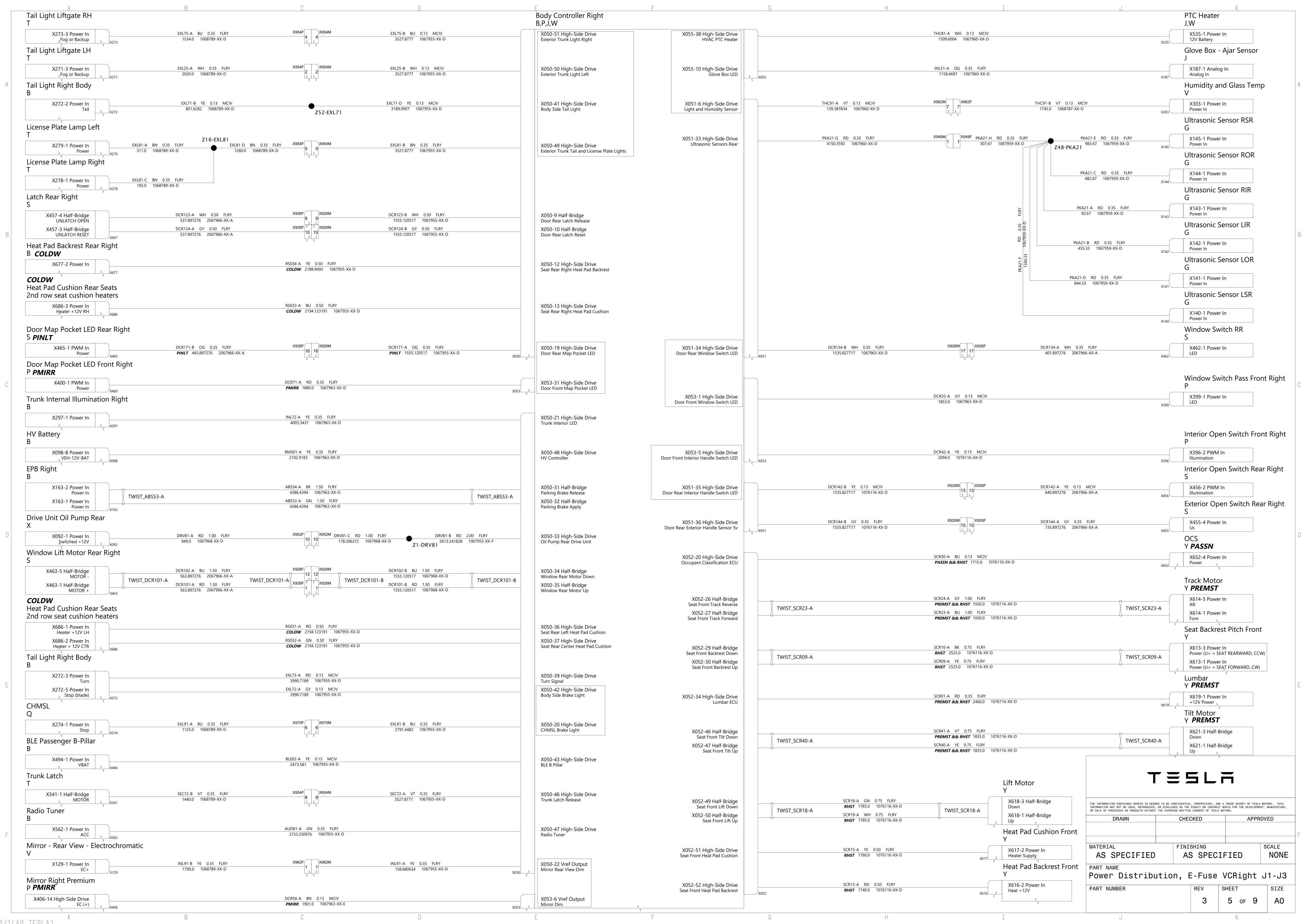
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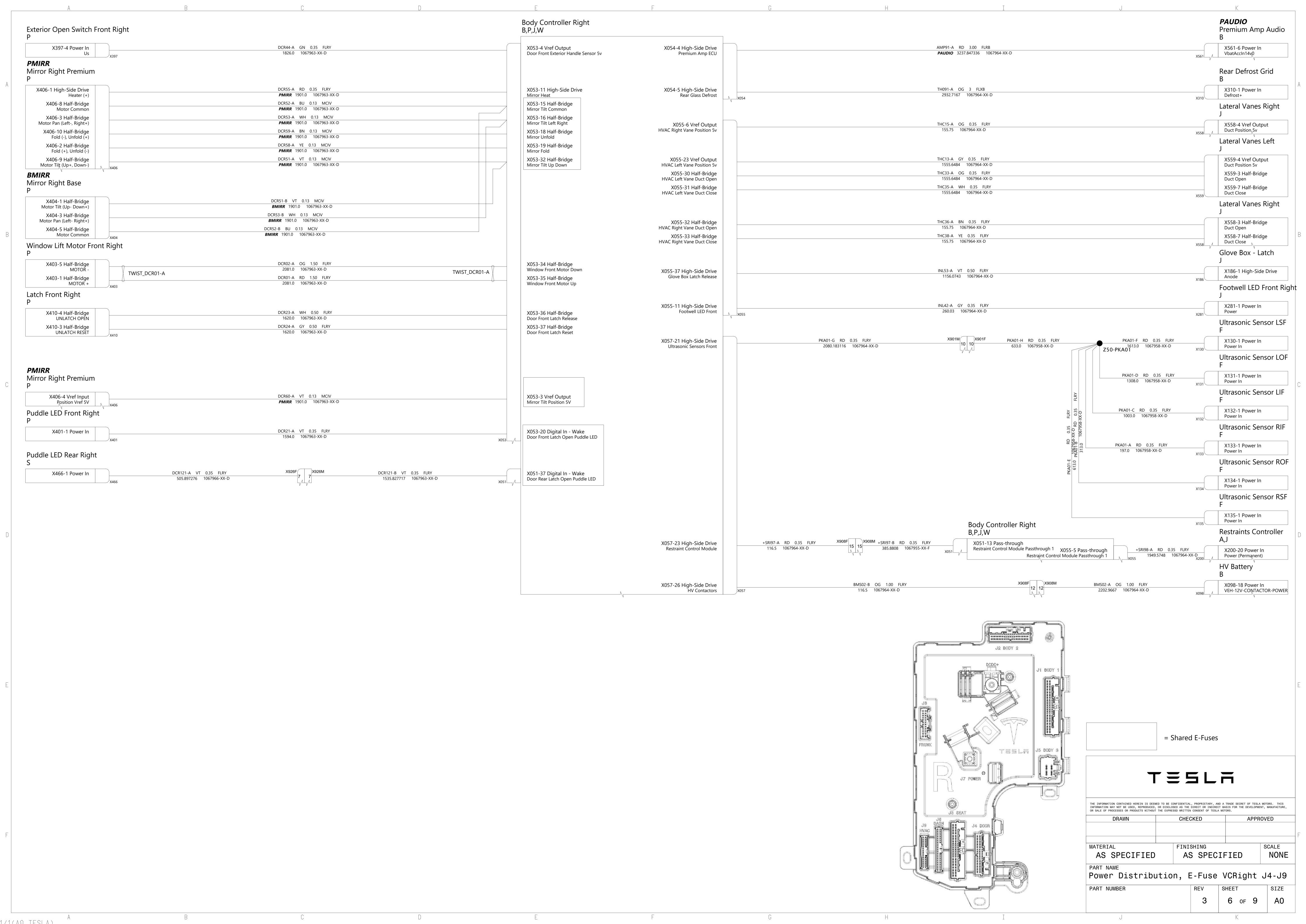


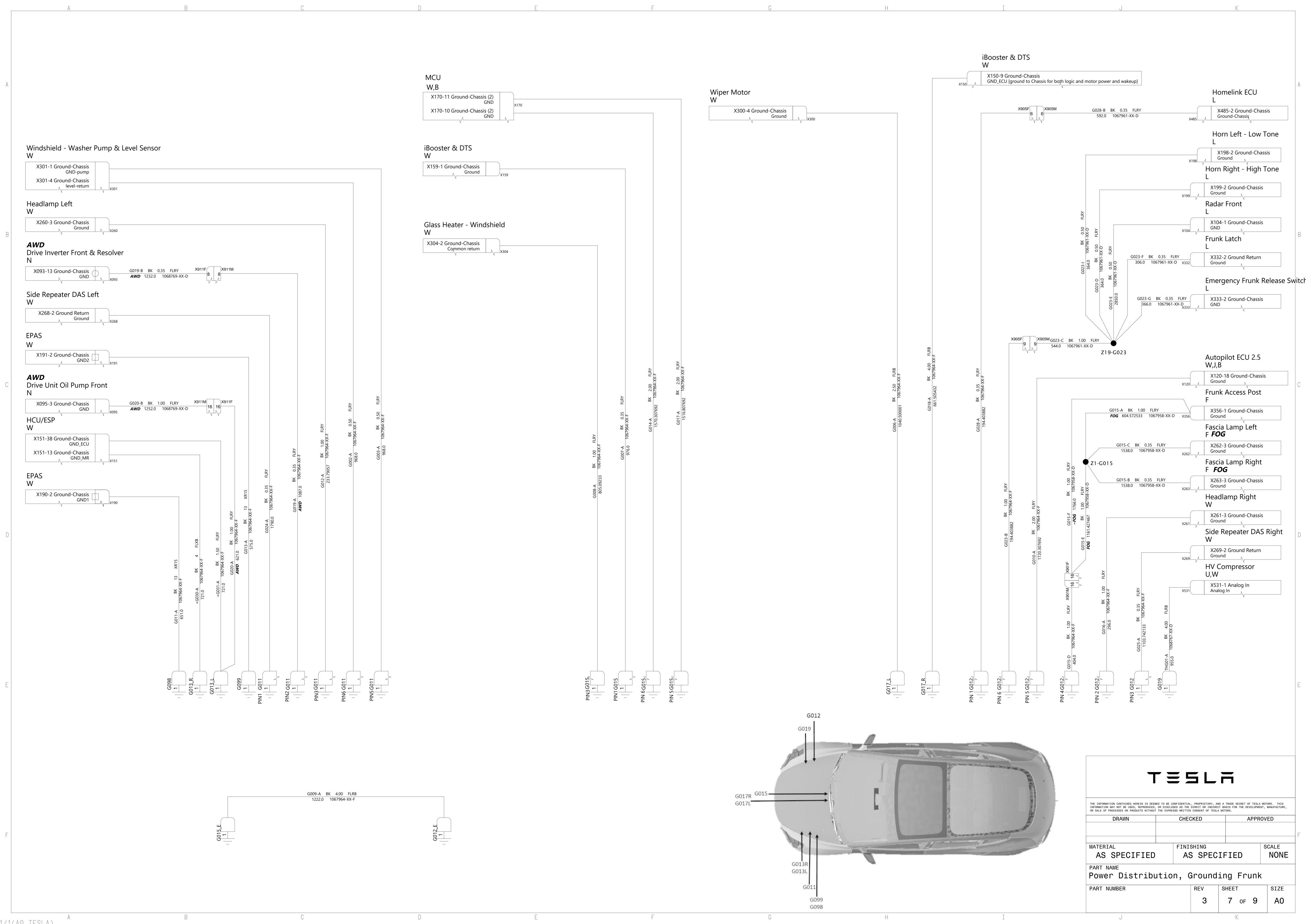


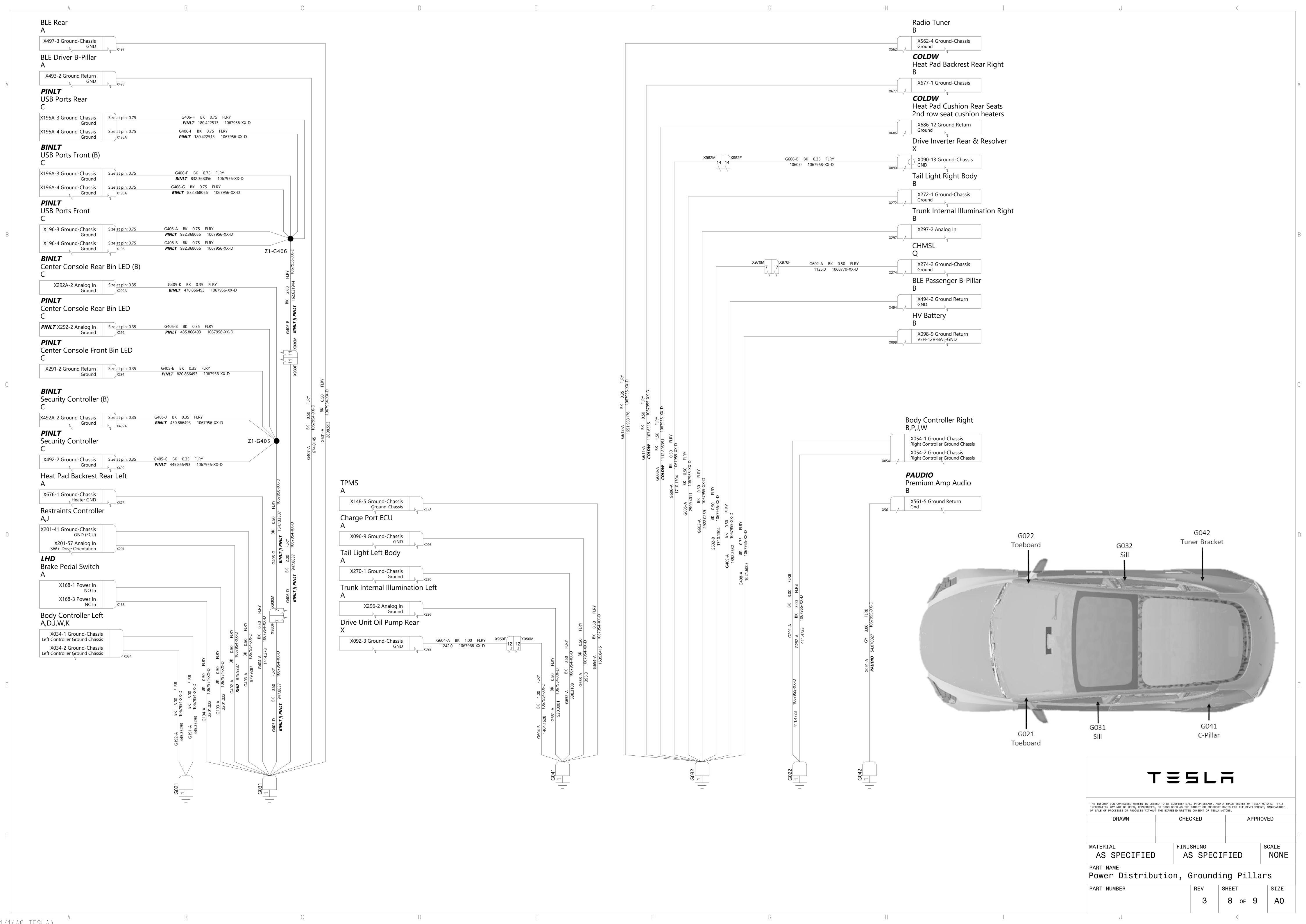
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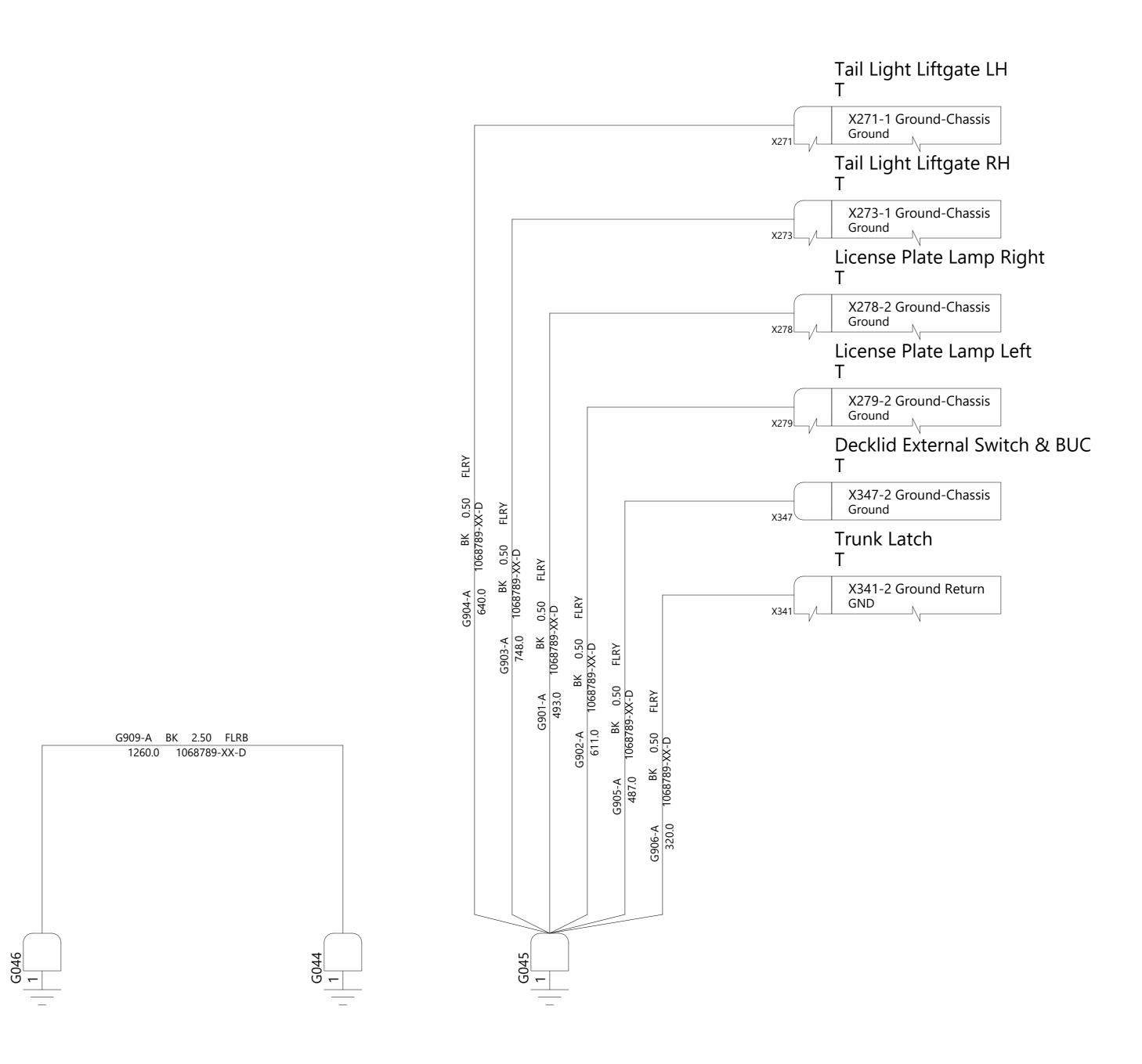
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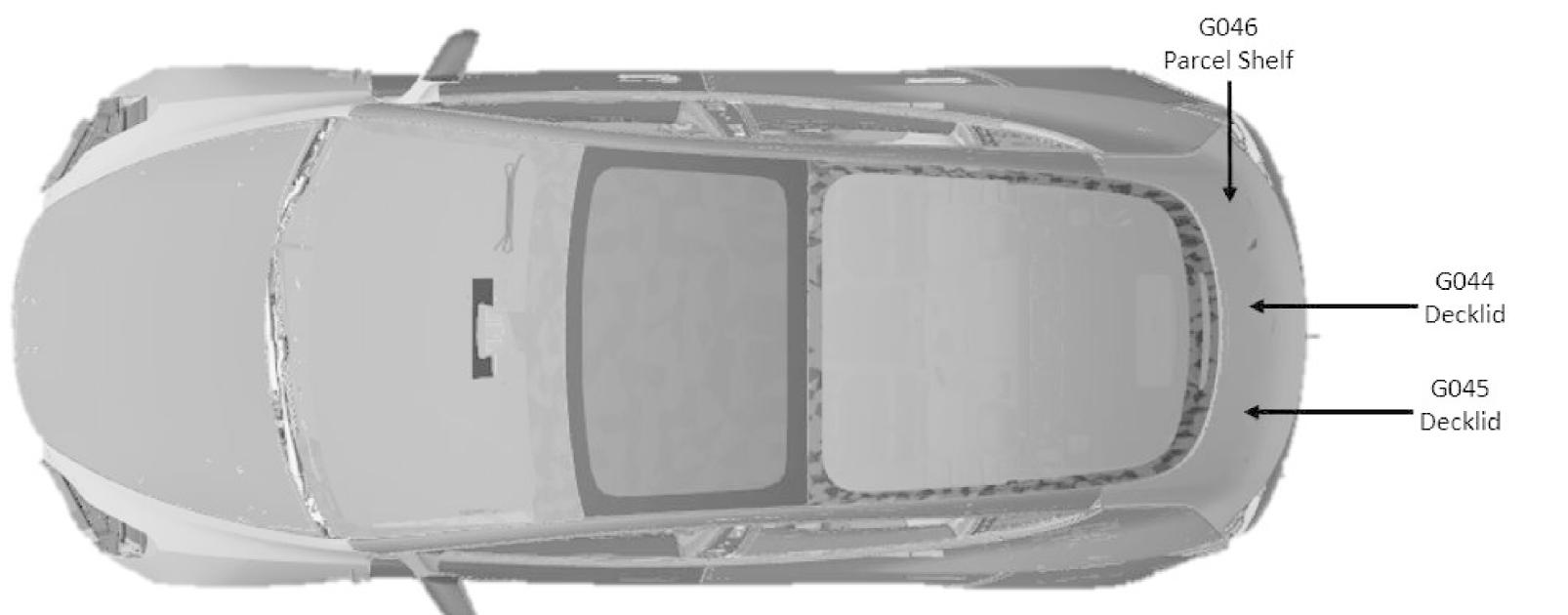












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