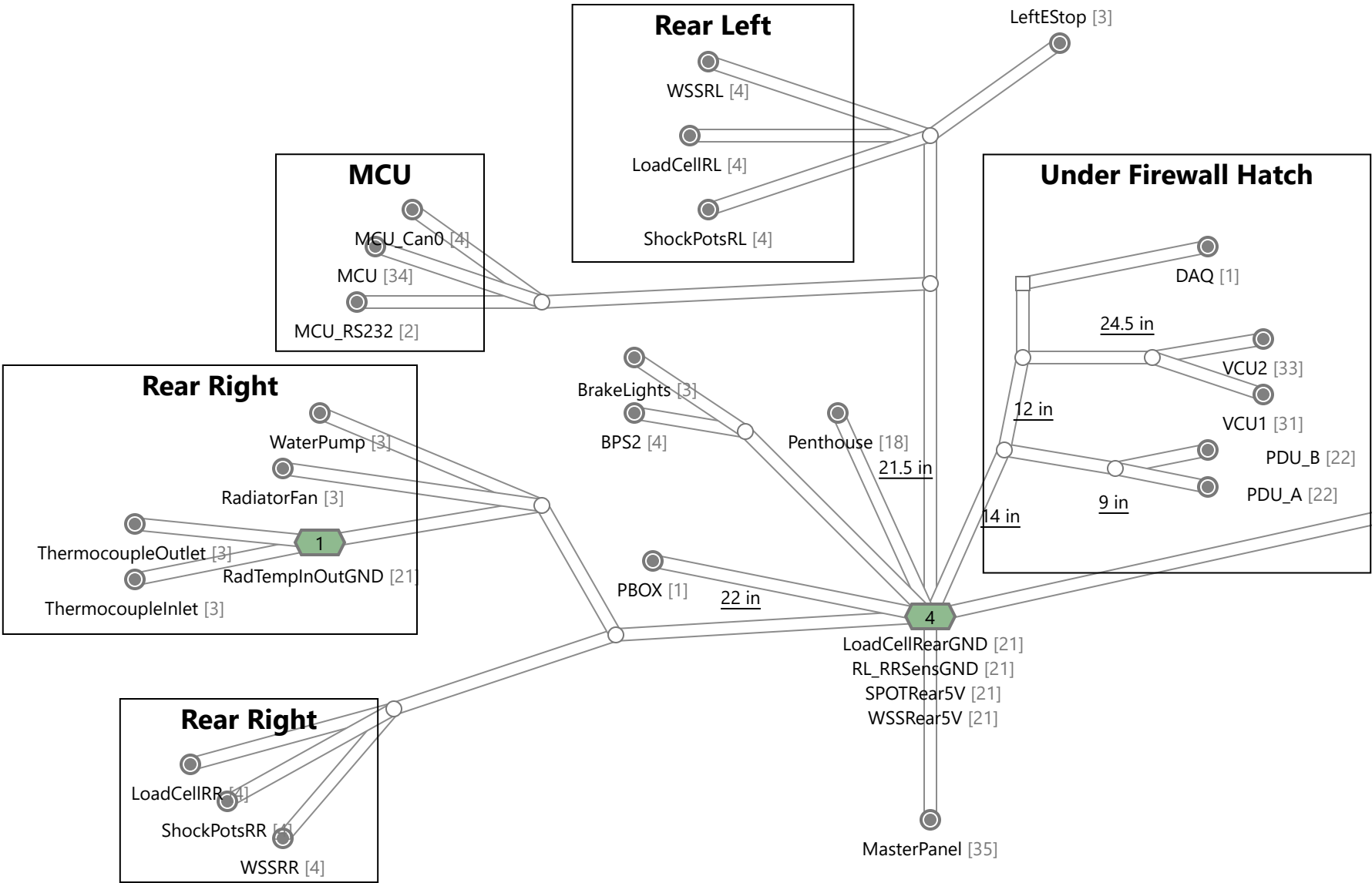


Revisions			
Rev.	Date	Author	Description
A	9/13/2023	Joseph Tai	




	A	B	C	D	E	F	G
1	Sensor List	Pinout Type	Pinouts				
2	Thermocouple	2 PIN	1 GND	2 SIG/PWR	3 PWR		
3	Shock Position	3 PIN	1 SIGNAL	2 GND	3 PWR		
4	Throttle Position	3 PIN	1 SIGNAL	2 GND	3 PWR		
5	Load Cells	3 PIN	1 SIGNAL	2 GND	3 PWR		
6	Wheel Speed	3 PIN	1 SIGNAL	2 GND	3 PWR		
7	Steering Position	3 PIN	1 SIGNAL	2 GND	3 PWR		
8	Brake Pressure	3 PIN	1 SIGNAL	2 GND	3 PWR		
9	Aero Load Cells	4 PIN S2C SPI	1 SIGNAL	2 GND	3 PWR		
10	Tire Temp	4 PIN CAN	1 GND	2 CAN L	3 CAN H	4 PWR	
11	Brake Rotor Temp	4 PIN CAN	1 GND	2 CAN L	3 CAN H	4 PWR	
12	IMU	4 PIN CAN	1 GND	2 CAN L	3 CAN H	4 PWR	
13	Low Voltage Shunt	4 PIN	1 GND	2 SIG1	3 SIG2	4 PWR	
14	High Voltage Shunt	4 PIN	1 GND	2 SIG1	3 SIG2	4 PWR	
15	GPS	4 PIN	1 GND	2 RS232 TX	2 RS232 RX	4 PWR	
16	Aero Pressure	3 PIN S2C	1 GND	2 SCK	3 MISO	4 MOSI	5 PWR

U_EMRA [12]

C1 [24]

From	To	Conductor	Color	Gauge	From Contact PN
FW.2	PDU_A.14	W18.Red		22 AWG	
FW.3	PDU_A.34	W7.Red		22 AWG	
FW.4	PDU_A.26	W51.Gray		22 AWG	
FW.5	PDU_B.17	W47.Gray		22 AWG	
FW.7	DAQ.23	W36.Yellow		22 AWG	
FW.8	PDU_B.15	W6.Red		22 AWG	
FW.9	PDU_A.7	W34.Yellow		22 AWG	
FW.10	PDU_B.1	W8.Red		22 AWG	
FW.11	DAQ.64	W67.White			
FW.12	PBOX.4	W68.White			
FW.13	VCU2.263	W80.White			
FW.14	VCU1.106	W83.White			
FW.15	DAQ.63	W66.White			
FW.16	VCU1.119	W69.White			
FW.17	VCU1.151	W70.White			
FW.18	Penthouse.24				
FW.19	DAQ.24	W63.White			
FW.20	PDU_A.2	W39.Yellow		22 AWG	
FW.21	PDU_A.13	W12.Red		22 AWG	
FW.22	PDU_B.11	W14.Green		22 AWG	
FW.23	VCU1.126	W71.White			
FW.24	Penthouse.8	W72.White			

	Name	Date	 This document contains confidential and proprietary information that cannot be reproduced or divulged, in whole or in part, without written authorization.
h By	----	----	
approved	----	----	
approved	----	----	

From	To	Conductor	Color	Gauge	From Contact PN

From	To	Conductor	Color	Gauge	From Contact PN

Title:	----
Part Number:	SR15 Back Harness
Description:	

Flag	Quantity	Note
①	1	Shock Pot 12V, where should it come from? can maybe just splice it to both front shocks
②	1	Load cells & IMU both 24V, splice or no?










































Title:	----
Part Number:	SR15 Back Harness
Description:	

Id	Type	Manufacturer	Part Number	Description	Quantity	Usage
1	Connector		MAIN_FW_CONNECTOR	Firewall Connector	3	DAQ, FW, PBOX
2	Connector	TE Connectivity / DEUTSCH	DTM06-6S	DTM Series 6 Position Triple Row Female Socket Free Hanging Plug Connector	1	MCU_RS232
3	Connector	TE Connectivity / DEUTSCH	DTM04-2P	Connector Sealed Housing Receptacle 2Position 4.19mm Crimp Straight Cable Mount box	6	BrakeLights, LeftEStop, RadiatorFan, ThermocoupleInlet, ThermocoupleOutlet, WaterPump
4	Connector	TE Connectivity	DTM04-3P	Conn Housing RCP 3 POS Crimp ST Cable Mount Automotive	8	BPS2, LoadCellIRL, LoadCellIRR, MCU_Can0, ShockPotsRL, ShockPotsRR, WSSRL, WSSRR
5	Wire	Alpha Wire	1551 VI005	Hook-Up Wire, Tinned Copper, Insulation PVC, 22 AWG, 1551 Series Alpha Wire 1551VI005	≥ 28 in	W1, W2, W3, W4
6	Wire				≥ 50.5 in	W5
7	Wire		22 AWG Red	Generic Wire	≥ 388.5 in	W6, W7, W8, W9, W10, W11, W12, W18, W19, W20, W21, W22, W23, W24, W25, W26, W27
9	Wire				≥ 50.5 in	W13
10	Wire		UL1015 22 AWG Green	UL 1015 rated 22 AWG Green PVC Hook-up wire	≥ 28 in	W14
11	Wire	Alpha Wire	6823 GR001	Hook-Up Wire, EcoWire Plus, 6823, Green, 22 AWG, 7x30, mPPE Ins, 300V Alpha Wire 6823 GR001	≥ 226.5 in	W15, W16, W45, W46, W53, W54, W55
12	Connector	TE Connectivity	DTM04-4P	Combination Line Connector, 4 Contact(s), Female, Crimp Terminal, Plug	1	MCU_EMRAx
13	Wire		UL1007 22 AWG Red	UL 1007 rated 22 AWG Red PVC Hook-up wire	≥ 44.5 in	W17
14	Wire		UL1015 22 AWG White	UL 1015 rated 22 AWG White PVC Hook-up wire	≥ 28 in	W28
15	Cable	Alpha Wire	6823 WH001	Hook-Up Wire, EcoWire Plus, 6823, White, 22 AWG, 7x30, mPPE Ins, 300V Alpha Wire 6823 WH001	0 in	CBL1
16	Wire	Alpha Wire	6823 WH001	Hook-Up Wire, EcoWire Plus, 6823, White, 22 AWG, 7x30, mPPE Ins, 300V Alpha Wire 6823 WH001	≥ 101 in	W29, W33
17	Wire	TE Connectivity / Raychem	CB4436-000	High Performance Cable 1Conductors 24AWG Tin Plated Copper Black 600Vac	≥ 140.5 in	W30, W31, W32, W93, W116
18	Connector	TE Connectivity / AMP	5749111-3	Conn SCSI PL 40 POS 1.27mm IDT RA Cable Mount 40 Terminal 1 Port Tube	1	Penthouse
19	Wire		UL1015 22 AWG Yellow	UL 1015 rated 22 AWG Yellow PVC Hook-up wire	≥ 292 in	W34, W35, W36, W37, W38, W39, W40, W41, W42, W43, W44
20	Wire		UL1015 22 AWG Gray	UL 1015 rated 22 AWG Gray PVC Hook-up wire	≥ 102 in	W47, W48, W49, W50, W51, W52
21	Splice	Molex	19199-0007	Rectangular Power Connector, 8 Contact(s), Male, Crimp Terminal	5	LoadCellRearGND, RL_RRSensGND, RadTempInOutGND, SPOTRear5V, WSSRear5V
22	Connector	TE Connectivity	776164-1	Conn Housing PL 35 POS 4mm Crimp ST Cable Mount Automotive Package	2	PDU_A, PDU_B









































Title:	----
Part Number:	SR15 Back Harness
Description:	

Id	Type	Manufacturer	Part Number	Description	Quantity	Usage
23	Wire		UL1061 22 AWG Gray	UL 1061 rated 22 AWG Gray SR-PVC Hook-up wire	≥ 23 in	W56
24	Connector		AS220-35PN-HE		1	C1
25	Wire				0 in	W57
26	Wire				0 in	W58
30	Wire				≥ 968 in	W59, W63, W64, W65, W66, W67, W68, W69, W70, W71, W72, W73, W74, W75, W76, W77, W78, W79, W80, W81, W82, W83, W84, W85, W86, W87, W88, W89, W90
31	Connector	TE Connectivity	1393450-5	JPT, MT II 52 way receptacle housing TE Connectivity 1393450-5	1	VCU1
32	Wire				≥ 84 in	W60, W61, W62, W91, W92, W94
33	Connector	TE Connectivity	1393436-4	Combination Line Connector, 28 Contact(s), Female, Receptacle	1	VCU2
34	Connector		DTM04-12PA	Housing for Male Terminals, Wire-to-Wire, 12 Position, .165 in [4.19 mm] Centerline, Sealable, Gray, Wire & Cable, Power & Signal, Hybrid	2	C2, MCU
35	Connector	TE Connectivity / DEUTSCH	DTM06-12SA	Conn Housing PL 12 POS 4.19mm Crimp ST Cable Mount Gray Box Automotive	1	MasterPanel
36	Wire	milspecwiring	M22759/33-24-9		≥ 512.5 in	W95, W96, W97, W98, W99, W100, W101, W102, W103, W104, W105, W106, W107, W108, W109, W110, W111, W112, W113, W114, W115


















Title:	----
Part Number:	SR15 Back Harness
Description:	

From	To	Conductor	Conductor PN	Twisted With	Gauge	Length	From Contact PN	Notes
BPS2.1	VCU1.139	 W81.White				≥ 26 in		BPS 2 Signal
DAQ.34	ThermocoupleInlet.2	 W95.White	M22759/33-24-9		24 AWG	≥ 50.5 in		Radiator Temp In
DAQ.35	ThermocoupleOutlet.2	 W82.White				≥ 50.5 in		Radiator Temp Out
DAQ.57	FW.46	 W85.White				55.5 in		Data Mark Button
DAQ.67	MasterPanel.7	 W106.White	M22759/33-24-9		24 AWG	≥ 50.5 in		E-TX+
DAQ.68	MasterPanel.5	 W104.White	M22759/33-24-9		24 AWG	≥ 50.5 in		E-TX-
DAQ.77	MasterPanel.8	 W97.White	M22759/33-24-9		24 AWG	≥ 50.5 in		E-RX+
DAQ.78	MasterPanel.6	 W105.White	M22759/33-24-9		24 AWG	≥ 50.5 in		E-RX-
FW.7	DAQ.23	 W36.Yellow	UL1015 22 AWG Yellow		22 AWG	55.5 in		Load Cell FL Signal
FW.11	DAQ.64	 W67.White				55.5 in		FL Wheel Speed Sensor Signal
FW.12	PBOX.4	 W68.White				27 in		BYPO
FW.15	DAQ.63	 W66.White				55.5 in		FR Wheel Speed Sensor Signal
FW.19	DAQ.24	 W63.White				55.5 in		Load Cell FR Signal
FW.37	DAQ.45	 W64.White				55.5 in		Shock Position FL Signal
FW.41	DAQ.46	 W65.White				55.5 in		Shock Position FR Signal
LeftESop.1	LoadCellRearGND	 W2.Violet	1551 VI005		22 AWG			
LoadCellRL.1	DAQ.25	 W33.White	6823 WH001		22 AWG	≥ 50.5 in		RL Load Cell Signal
LoadCellRR.1	DAQ.26	 W29.White	6823 WH001		22 AWG	≥ 50.5 in		Rear Right Load Cell
LoadCellRearGND	LoadCellRL.2	 W49.Gray	UL1015 22 AWG Gray		22 AWG			Load Cell RL GND
LoadCellRearGND	LoadCellRR.2	 W50.Gray	UL1015 22 AWG Gray		22 AWG			Load Cell RR GND
PBOX.2	MasterPanel.2	 W96.White	M22759/33-24-9		24 AWG	≥ 22 in		TSAL Red CTRL
PBOX.6	FW.39	 W78.White				27 in		BYPI
PBOX.8	MasterPanel.10	 W98.White	M22759/33-24-9		24 AWG	≥ 22 in		Shutdown Board Reset to BSPD & SHB
PBOX.10	FW.30	 W75.White				27 in		BSPD LED Indicator
PDU_A.1	Penthouse.15	 W17.Red	UL1007 22 AWG Red		22 AWG	≥ 44.5 in		Hall Effect 5V
PDU_A.2	FW.20	 W39.Yellow	UL1015 22 AWG Yellow		22 AWG	≥ 28 in		S2C 12V
PDU_A.5	MasterPanel.11	 W42.Yellow	UL1015 22 AWG Yellow		22 AWG	≥ 23 in		TSAL Power
PDU_A.6	PBOX.18	 W35.Yellow	UL1015 22 AWG Yellow		22 AWG	≥ 45 in		PBOX 12V
PDU_A.7	FW.9	 W34.Yellow	UL1015 22 AWG Yellow		22 AWG	≥ 28 in		12V Dash
PDU_A.8	PBOX.23	 W38.Yellow	UL1015 22 AWG Yellow		22 AWG	≥ 45 in		E-Meter 12V
PDU_A.9	RadiatorFan.2	 W53.Green	6823 GR001		22 AWG	≥ 23 in		Radiator Fan Out (FET CONTROL) 24V
PDU_A.11	FW.47	 W1.Violet	1551 VI005		22 AWG	≥ 28 in		PDU > Inertia [HVIL]
PDU_A.13	FW.21	 W12.Red	22 AWG Red		22 AWG	≥ 28 in		SPOT Front 5V
PDU_A.14	FW.2	 W18.Red	22 AWG Red		22 AWG	≥ 28 in		WSS Front 5V
PDU_A.15	WSSRear5V	 W19.Red	22 AWG Red		22 AWG	≥ 23 in		WSS Rear 5V
PDU_A.16	SPOTRear5V	 W20.Red	22 AWG Red		22 AWG	≥ 23 in		SPOT Rear 5V
PDU_A.17	Penthouse.20	 W37.Yellow	UL1015 22 AWG Yellow		22 AWG	≥ 44.5 in		Penthouse 12V
PDU_A.24	RL_RRSensGND	 W52.Gray	UL1015 22 AWG Gray		22 AWG	≥ 23 in		RL & RR Sensor GND
PDU_A.25	RadTempInOutGND	 W56.Gray	UL1061 22 AWG Gray		22 AWG	≥ 23 in		Radiator Temp In/Out Sensor GND
PDU_A.26	FW.4	 W51.Gray	UL1015 22 AWG Gray		22 AWG	≥ 28 in		Front Sensor GND
PDU_A.34	FW.3	 W7.Red	22 AWG Red		22 AWG	≥ 28 in		Steering Position & BPS1 5V










































Title:	----
Part Number:	SR15 Back Harness
Description:	

From	To	Conductor	Conductor PN	Twisted With	Gauge	Length	From Contact PN	Notes
PDU_B.1	FW.10	 W8.Red	22 AWG Red		22 AWG	≥ 28 in		GPS 5V
PDU_B.2	PBOX.22	 W10.Red	22 AWG Red		22 AWG	≥ 45 in		PBOX 5V
PDU_B.3	Penthouse.13	 W11.Red	22 AWG Red		22 AWG	≥ 44.5 in		Penthouse 5V
PDU_B.4	FW.34	 W9.Red	22 AWG Red		22 AWG	≥ 28 in		ICU & S2C 5V
PDU_B.5	Penthouse.17	 W16.Green	6823 GR001		22 AWG	≥ 44.5 in		BMS 24V
PDU_B.6	WaterPump.2	 W45.Green	6823 GR001		22 AWG	≥ 23 in		Water Pump 24V
PDU_B.8	FW.44	 W28.White	UL1015 22 AWG White		22 AWG	≥ 28 in		PDU Fuse Blown Indicator
PDU_B.11	FW.22	 W14.Green	UL1015 22 AWG Green		22 AWG	≥ 28 in		Load Cell Front 24V
PDU_B.12	Penthouse.N/C	 W46.Green	6823 GR001		22 AWG	≥ 44.5 in		IMD 24V **
PDU_B.13	MasterPanel.9	 W25.Red	22 AWG Red		22 AWG	≥ 23 in		Shutdown Board Reset Button 5V
PDU_B.15	FW.8	 W6.Red	22 AWG Red		22 AWG	≥ 28 in		Steering Wheel 5V
PDU_B.17	FW.5	 W47.Gray	UL1015 22 AWG Gray		22 AWG	≥ 28 in		Steering Wheel GND (Steering angle sensor gnd? **)
PDU_B.18	LoadCellRearGND	 W48.Gray	UL1015 22 AWG Gray		22 AWG	≥ 23 in		Rear Load Cell GND
PDU_B.19	RadiatorFan.1	 W31.Black	CB4436-000		24 AWG	≥ 23 in		Radiator Fan GND
PDU_B.22	LoadCellRL.3	 W55.Green	6823 GR001		22 AWG	≥ 23 in		Load Cell RL 24V
PDU_B.23	DAQ.8	 W15.Green	6823 GR001		22 AWG	≥ 45.5 in		DAQ 24V Power
PDU_B.27	DAQ.7	 W30.Black	CB4436-000		24 AWG	≥ 45.5 in		DAQ GND
PDU_B.28	BrakeLights.1	 W93.Black	CB4436-000		24 AWG	≥ 23 in		Brake Light GND
PDU_B.31	MCU.1	 W116.Black	CB4436-000		24 AWG	≥ 23 in		MCU GND
PDU_B.31	MCU.12	 W40.Yellow	UL1015 22 AWG Yellow		22 AWG	≥ 23 in		MCU 12V
PDU_B.34	LoadCellRR.3	 W54.Green	6823 GR001		22 AWG	≥ 23 in		Load Cell RR 24V
Penthouse.5	MCU.4	 W107.White	M22759/33-24-9		24 AWG	≥ 21.5 in		Main Contactor
Penthouse.5	MCU.10	 W102.White	M22759/33-24-9		24 AWG	≥ 21.5 in		Pre-Charge
Penthouse.6	FW.45	 W84.White				26.5 in		IMD Fault LED
Penthouse.6	MasterPanel.3	 W89.White				≥ 21.5 in		IMD Fault LED (-)
Penthouse.8	FW.24	 W72.White				26.5 in		HV LED Indicator
Penthouse.10	MasterPanel.10	 W99.White	M22759/33-24-9		24 AWG	≥ 21.5 in		Shutdown Board Reset to BSPD & SHB
Penthouse.12	MasterPanel.4	 W103.White	M22759/33-24-9		24 AWG	≥ 21.5 in		TSAL Green CTRL
Penthouse.24	FW.18					26.5 in		AMS LED
ShockPotsRL.1	DAQ.47	 W5.Unspecified				≥ 50.5 in		Rear Left Shock Pot
ShockPotsRR.1	DAQ.48	 W13.Unspecified				≥ 50.5 in		Rear Right Shock Pot
VCU1.101	PDU_B.35	 W91.Green			22 AWG	≥ 21 in		VCU 24V Power
VCU1.102	MCU_Can0.3	 W110.White	M22759/33-24-9		24 AWG	≥ 26 in		Shield
VCU1.102	MCU_RS232.3	 W32.Black	CB4436-000		24 AWG	≥ 26 in		Shield
VCU1.106	FW.14	 W83.White				≥ 31 in		Ready to Drive Buzzer
VCU1.119	FW.16	 W69.White				≥ 31 in		SYS ERR
VCU1.126	FW.23	 W71.White				≥ 31 in		DRS Mode Select
VCU1.127	PDU_B.35	 W62.Green			22 AWG	≥ 21 in		VCU 24V Power
VCU1.128	PDU_B.35	 W61.Green			22 AWG	≥ 21 in		VCU 24V Power
VCU1.136	FW.36	 W24.Red	22 AWG Red		22 AWG	≥ 31 in		TPS 1 5V
VCU1.140	FW.38	 W77.White				≥ 31 in		TPS 2 Signal










































Title:	----
Part Number:	SR15 Back Harness
Description:	

From	To	Conductor	Conductor PN	Twisted With	Gauge	Length	From Contact PN	Notes
VCU1.147	FW.35	 W21.Red	22 AWG Red		22 AWG	≥ 31 in		TPS 2 5V
VCU1.150	FW.29	 W74.White				≥ 31 in		Steering Position Signal
VCU1.151	FW.17	 W70.White				≥ 31 in		BPS 1 Signal
VCU1.152	FW.26	 W73.White				≥ 31 in		TPS 1 Sig
VCU2.255	FW.40	 W79.White				≥ 31 in		Launch Control Button
VCU2.256	FW.25	 W86.White				≥ 31 in		Calibration Button In (ECO)
VCU2.257	FW.42	 W87.White				≥ 31 in		RS232 Serial TX (GPS)
VCU2.257	MCU_RS232.1	 W100.White	M22759/33-24-9		24 AWG	≥ 26 in		TX
VCU2.261	FW.31	 W76.White				≥ 31 in		DRS Enable Button
VCU2.263	FW.13	 W80.White				≥ 31 in		Ready to Drive Button In
VCU2.264	FW.27	 W88.White				≥ 31 in		RS232 Serial RX (GPS)
VCU2.264	MCU_RS232.2	 W101.White	M22759/33-24-9		24 AWG	≥ 26 in		RX
VCU2.271	PDU_B.35	 W92.Green			22 AWG	≥ 21 in		VCU 24V Power
VCU2.273	MCU_Can0.2	 W109.White	M22759/33-24-9		24 AWG	≥ 26 in		CAN 0 L
VCU2.279	MCU_Can0.1	 W108.White	M22759/33-24-9		24 AWG	≥ 26 in		CAN 0 H
WSSRL.1	DAQ.66					≥ 50.5 in		Rear Left Wheel Speed Sensor
WSSRR.1	DAQ.65					≥ 50.5 in		Rear Right Wheel Speed Sensor
WSSRear5V	WSSRL.3	 W22.Red	22 AWG Red		22 AWG			WSS RL 5V
WSSRear5V	WSSRR.3	 W23.Red	22 AWG Red		22 AWG			WSS RR 5V




































Title:	----
Part Number:	SR15 Back Harness
Description:	

#	Type	Reference Designator	Manufacturer	Part Number	Color	Gauge	Length	Twisted With
1	Cable	CBL1	Alpha Wire	6823 WH001	 White		0 in	
2	Wire	W1	Alpha Wire	1551 VI005	 Violet	22 AWG	≥ 28 in	
3	Wire	W2	Alpha Wire	1551 VI005	 Violet	22 AWG		
4	Wire	W3	Alpha Wire	1551 VI005	 Violet	22 AWG	0 in	
5	Wire	W4	Alpha Wire	1551 VI005	 Violet	22 AWG	0 in	
6	Wire	W5			 Unspecified		≥ 50.5 in	
7	Wire	W6		22 AWG Red	 Red	22 AWG	≥ 28 in	
8	Wire	W7		22 AWG Red	 Red	22 AWG	≥ 28 in	
9	Wire	W8		22 AWG Red	 Red	22 AWG	≥ 28 in	
10	Wire	W9		22 AWG Red	 Red	22 AWG	≥ 28 in	
11	Wire	W10		22 AWG Red	 Red	22 AWG	≥ 45 in	
12	Wire	W11		22 AWG Red	 Red	22 AWG	≥ 44.5 in	
13	Wire	W12		22 AWG Red	 Red	22 AWG	≥ 28 in	
14	Wire	W13			 Unspecified		≥ 50.5 in	
15	Wire	W14		UL1015 22 AWG Green	 Green	22 AWG	≥ 28 in	
16	Wire	W15	Alpha Wire	6823 GR001	 Green	22 AWG	≥ 45.5 in	
17	Wire	W16	Alpha Wire	6823 GR001	 Green	22 AWG	≥ 44.5 in	
18	Wire	W17		UL1007 22 AWG Red	 Red	22 AWG	≥ 44.5 in	
19	Wire	W18		22 AWG Red	 Red	22 AWG	≥ 28 in	
20	Wire	W19		22 AWG Red	 Red	22 AWG	≥ 23 in	
21	Wire	W20		22 AWG Red	 Red	22 AWG	≥ 23 in	
22	Wire	W21		22 AWG Red	 Red	22 AWG	≥ 31 in	
23	Wire	W22		22 AWG Red	 Red	22 AWG		
24	Wire	W23		22 AWG Red	 Red	22 AWG		
25	Wire	W24		22 AWG Red	 Red	22 AWG	≥ 31 in	
26	Wire	W25		22 AWG Red	 Red	22 AWG	≥ 23 in	
27	Wire	W26		22 AWG Red	 Red	22 AWG	0 in	
28	Wire	W27		22 AWG Red	 Red	22 AWG	0 in	
29	Wire	W28		UL1015 22 AWG White	 White	22 AWG	≥ 28 in	
30	Wire	W29	Alpha Wire	6823 WH001	 White	22 AWG	≥ 50.5 in	
31	Wire	W30	TE Connectivity / Raychem	CB4436-000	 Black	24 AWG	≥ 45.5 in	
32	Wire	W31	TE Connectivity / Raychem	CB4436-000	 Black	24 AWG	≥ 23 in	
33	Wire	W32	TE Connectivity / Raychem	CB4436-000	 Black	24 AWG	≥ 26 in	
34	Wire	W33	Alpha Wire	6823 WH001	 White	22 AWG	≥ 50.5 in	
35	Wire	W34		UL1015 22 AWG Yellow	 Yellow	22 AWG	≥ 28 in	
36	Wire	W35		UL1015 22 AWG Yellow	 Yellow	22 AWG	≥ 45 in	
37	Wire	W36		UL1015 22 AWG Yellow	 Yellow	22 AWG	55.5 in	
38	Wire	W37		UL1015 22 AWG Yellow	 Yellow	22 AWG	≥ 44.5 in	
39	Wire	W38		UL1015 22 AWG Yellow	 Yellow	22 AWG	≥ 45 in	
40	Wire	W39		UL1015 22 AWG Yellow	 Yellow	22 AWG	≥ 28 in	
41	Wire	W40		UL1015 22 AWG Yellow	 Yellow	22 AWG	≥ 23 in	

Title:	----
Part Number:	SR15 Back Harness
Description:	

#	Type	Reference Designator	Manufacturer	Part Number	Color	Gauge	Length	Twisted With
42	Wire	W41		UL1015 22 AWG Yellow	 Yellow	22 AWG	0 in	
43	Wire	W42		UL1015 22 AWG Yellow	 Yellow	22 AWG	≥ 23 in	
44	Wire	W43		UL1015 22 AWG Yellow	 Yellow	22 AWG	0 in	
45	Wire	W44		UL1015 22 AWG Yellow	 Yellow	22 AWG	0 in	
46	Wire	W45	Alpha Wire	6823 GR001	 Green	22 AWG	≥ 23 in	
47	Wire	W46	Alpha Wire	6823 GR001	 Green	22 AWG	≥ 44.5 in	
48	Wire	W47		UL1015 22 AWG Gray	 Gray	22 AWG	≥ 28 in	
49	Wire	W48		UL1015 22 AWG Gray	 Gray	22 AWG	≥ 23 in	
50	Wire	W49		UL1015 22 AWG Gray	 Gray	22 AWG		
51	Wire	W50		UL1015 22 AWG Gray	 Gray	22 AWG		
52	Wire	W51		UL1015 22 AWG Gray	 Gray	22 AWG	≥ 28 in	
53	Wire	W52		UL1015 22 AWG Gray	 Gray	22 AWG	≥ 23 in	
54	Wire	W53	Alpha Wire	6823 GR001	 Green	22 AWG	≥ 23 in	
55	Wire	W54	Alpha Wire	6823 GR001	 Green	22 AWG	≥ 23 in	
56	Wire	W55	Alpha Wire	6823 GR001	 Green	22 AWG	≥ 23 in	
57	Wire	W56		UL1061 22 AWG Gray	 Gray	22 AWG	≥ 23 in	
58	Wire	W57			 Unspecified		0 in	
59	Wire	W58			 Unspecified		0 in	
60	Wire	W59			 Unspecified		0 in	
61	Wire	W60			 Unspecified		0 in	
62	Wire	W61			 Green	22 AWG	≥ 21 in	
63	Wire	W62			 Green	22 AWG	≥ 21 in	
64	Wire	W63			 White		55.5 in	
65	Wire	W64			 White		55.5 in	
66	Wire	W65			 White		55.5 in	
67	Wire	W66			 White		55.5 in	
68	Wire	W67			 White		55.5 in	
69	Wire	W68			 White		27 in	
70	Wire	W69			 White		≥ 31 in	
71	Wire	W70			 White		≥ 31 in	
72	Wire	W71			 White		≥ 31 in	
73	Wire	W72			 White		26.5 in	
74	Wire	W73			 White		≥ 31 in	
75	Wire	W74			 White		≥ 31 in	
76	Wire	W75			 White		27 in	
77	Wire	W76			 White		≥ 31 in	
78	Wire	W77			 White		≥ 31 in	
79	Wire	W78			 White		27 in	
80	Wire	W79			 White		≥ 31 in	
81	Wire	W80			 White		≥ 31 in	
82	Wire	W81			 White		≥ 26 in	

Title:	----
Part Number:	SR15 Back Harness
Description:	

#	Type	Reference Designator	Manufacturer	Part Number	Color	Gauge	Length	Twisted With
83	Wire	W82			 White		≥ 50.5 in	
84	Wire	W83			 White		≥ 31 in	
85	Wire	W84			 White		26.5 in	
86	Wire	W85			 White		55.5 in	
87	Wire	W86			 White		≥ 31 in	
88	Wire	W87			 White		≥ 31 in	
89	Wire	W88			 White		≥ 31 in	
90	Wire	W89			 White		≥ 21.5 in	
91	Wire	W90			 White		0 in	
92	Wire	W91			 Green	22 AWG	≥ 21 in	
93	Wire	W92			 Green	22 AWG	≥ 21 in	
94	Wire	W93	TE Connectivity / Raychem	CB4436-000	 Black	24 AWG	≥ 23 in	
95	Wire	W94			 Green	22 AWG	0 in	
96	Wire	W95	milspecwiring	M22759/33-24-9	 White	24 AWG	≥ 50.5 in	
97	Wire	W96	milspecwiring	M22759/33-24-9	 White	24 AWG	≥ 22 in	
98	Wire	W97	milspecwiring	M22759/33-24-9	 White	24 AWG	≥ 50.5 in	
99	Wire	W98	milspecwiring	M22759/33-24-9	 White	24 AWG	≥ 22 in	
100	Wire	W99	milspecwiring	M22759/33-24-9	 White	24 AWG	≥ 21.5 in	
101	Wire	W100	milspecwiring	M22759/33-24-9	 White	24 AWG	≥ 26 in	
102	Wire	W101	milspecwiring	M22759/33-24-9	 White	24 AWG	≥ 26 in	
103	Wire	W102	milspecwiring	M22759/33-24-9	 White	24 AWG	≥ 21.5 in	
104	Wire	W103	milspecwiring	M22759/33-24-9	 White	24 AWG	≥ 21.5 in	
105	Wire	W104	milspecwiring	M22759/33-24-9	 White	24 AWG	≥ 50.5 in	
106	Wire	W105	milspecwiring	M22759/33-24-9	 White	24 AWG	≥ 50.5 in	
107	Wire	W106	milspecwiring	M22759/33-24-9	 White	24 AWG	≥ 50.5 in	
108	Wire	W107	milspecwiring	M22759/33-24-9	 White	24 AWG	≥ 21.5 in	
109	Wire	W108	milspecwiring	M22759/33-24-9	 White	24 AWG	≥ 26 in	
110	Wire	W109	milspecwiring	M22759/33-24-9	 White	24 AWG	≥ 26 in	
111	Wire	W110	milspecwiring	M22759/33-24-9	 White	24 AWG	≥ 26 in	
112	Wire	W111	milspecwiring	M22759/33-24-9	 White	24 AWG	0 in	
113	Wire	W112	milspecwiring	M22759/33-24-9	 White	24 AWG	0 in	
114	Wire	W113	milspecwiring	M22759/33-24-9	 White	24 AWG	0 in	
115	Wire	W114	milspecwiring	M22759/33-24-9	 White	24 AWG	0 in	
116	Wire	W115	milspecwiring	M22759/33-24-9	 White	24 AWG	0 in	
117	Wire	W116	TE Connectivity / Raychem	CB4436-000	 Black	24 AWG	≥ 23 in	
118		Penthouse.24 - FW.18					26.5 in	
119		WSSRL.1 - DAQ.66					≥ 50.5 in	
120		WSSRR.1 - DAQ.65					≥ 50.5 in	

#	Manufacturer	Part Number	Description	Label Text