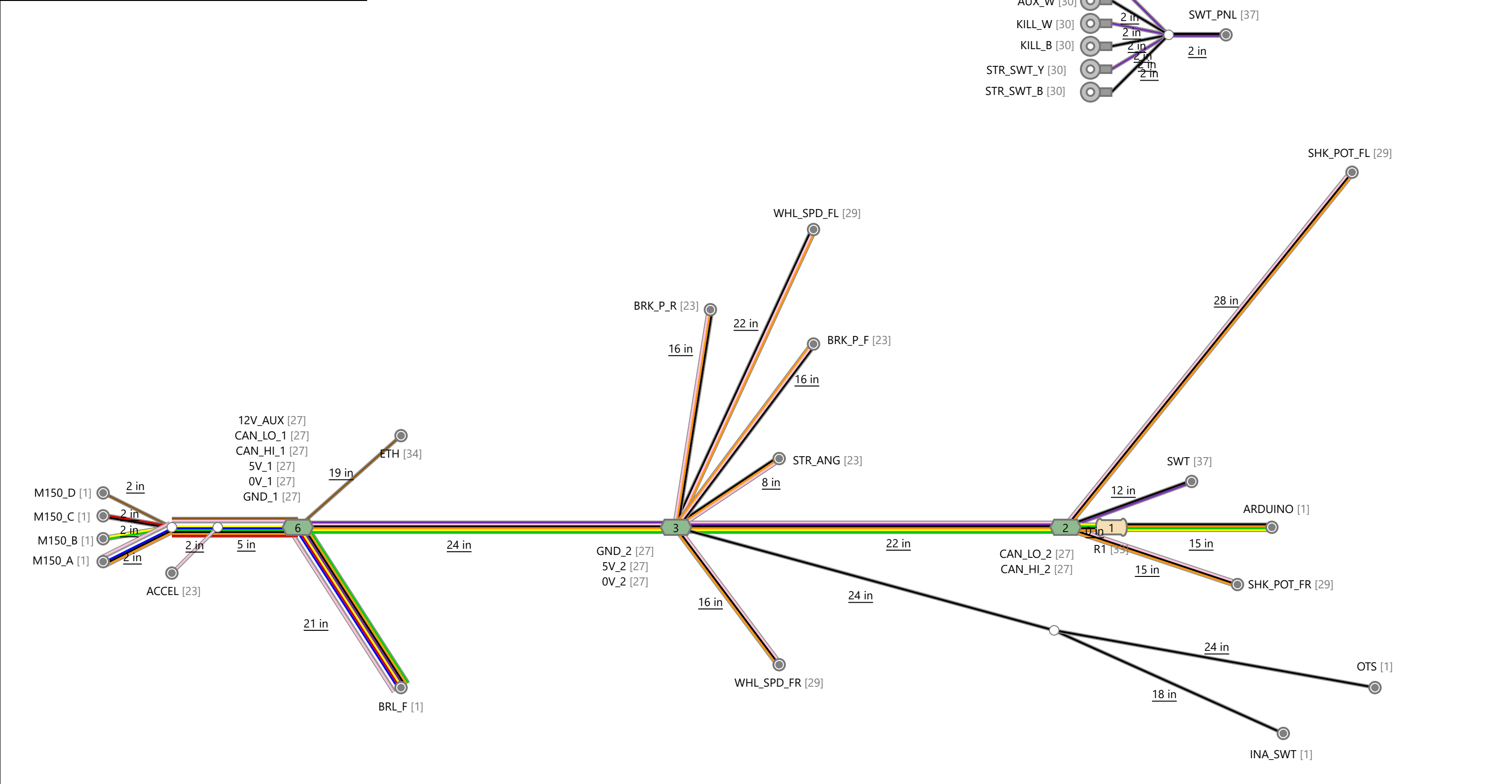



Revisions			
Rev.	Date	Author	Description



				Name	Date	
			Drawn By	----	----	
			Eng Approved	----	----	
			Mfg Approved	----	----	
Title		Part Number		2024 Front Harness		This document contains confidential and proprietary information that cannot be reproduced or divulged, in whole or in part, without written authorization.
Description		Revision		----		
				QA	----	

Title:	----
Part Number:	2024 Front Harness
Description:	










































Id	Type	Manufacturer	Part Number	Description	Quantity	Usage
1	Connector		2 Cavity	Generic Connector	8	ARDUINO, BRL_F, INA_SWT, M150_A, M150_B, M150_C, M150_D, OTS
9	Wire		18 AWG Red	Generic Wire	30 in	W16, W18
21	Wire		18 AWG Black	Generic Wire	60 in	W20, W183, W184
23	Connector		3 Cavity	Generic Connector	4	ACCEL, BRK_P_F, BRK_P_R, STR_ANG
27	Splice		Generic Splice	Generic Splice	11	0V_1, 0V_2, 5V_1, 5V_2, 12V_AUX, CAN_HI_1, CAN_HI_2, CAN_LO_1, CAN_LO_2, GND_1, GND_2
29	Connector		10 Cavity	Generic Connector	4	SHK_POT_FL, SHK_POT_FR, WHL_SPD_FL, WHL_SPD_FR
30	Ring Terminal		18 AWG Gray	Generic Ring Terminal	6	AUX_R, AUX_W, KILL_B, KILL_W, STR_SWT_B, STR_SWT_Y
33	Resistor		Generic Resistor	Generic Resistor	1	R1
34	Connector		4 Cavity	Generic Connector	1	ETH
37	Connector		6 Cavity	Generic Connector	2	SWT, SWT_PNL
38	Wire		22 AWG Violet	Generic Wire	249 in	W73, W74, W75, W166, W167, W168
39	Wire		22 AWG Black	Generic Wire	307 in	W76, W77, W78, W82, W83, W84, W85, W169, W170, W171
41	Wire		22 AWG Orange	Generic Wire	256 in	W86, W87, W88, W89, W110, W112, W114, W118, W119, W124, W125
42	Wire		22 AWG Pink	Generic Wire	≥ 820 in	W92, W93, W94, W95, W96, W97, W98, W99, W100, W101, W102, W103, W104, W105, W106, W107, W108, W109, W186, W187, W190, W191
43	Wire		22 AWG Black - White		219 in	W128, W129, W130, W131, W132, W134, W135, W141, W142, W144
44	Wire		22 AWG Gray - Blue Stripe		30 in	W146
45	Wire		22 AWG Gray - Green Stripe		30 in	W147
46	Wire		22 AWG Gray - Red Stripe		30 in	W148
47	Wire		22 AWG Gray - Black Stripe		30 in	W149
48	Wire		18 AWG White-Blue	Generic Wire	30 in	W150
49	Wire		18 AWG White-Green	Generic Wire	30 in	W151
50	Wire		18 AWG White-Red	Generic Wire	30 in	W152
51	Wire		18 AWG White-Black	Generic Wire	30 in	W153
52	Wire		22 AWG Yellow	Generic Wire	91 in	W154, W155, W156, W157, W162

Title:	----
Part Number:	2024 Front Harness
Description:	












































Id	Type	Manufacturer	Part Number	Description	Quantity	Usage
53	Wire		22 AWG Blue	Generic Wire	60 in	W164, W165
54	Cable		2 Wire 22 AWG shielded	Generic Cable	30 in	CBL2
55	Cable		3 Wire 22 AWG shielded	Generic Cable	60 in	CBL3, CBL4
56	Wire		22 AWG Green	Generic Wire	91 in	W176, W177, W178, W179, W185
57	Wire		22 AWG Brown	Generic Wire	112 in	W48, W180, W181, W182

Title:	----
Part Number:	2024 Front Harness
Description:	

From	To	Conductor	Conductor PN	Twisted With	Gauge	Length	From Contact PN	Notes
0V_1	0V_2	 W135.Black-White	22 AWG Black - White		22 AWG	24 in		
0V_1	M150_A.N/C	 W132.Black-White	22 AWG Black - White		22 AWG	9 in		
0V_2	BRK_P_F.2	 W130.Black-White	22 AWG Black - White		22 AWG	16 in		
0V_2	BRK_P_R.2	 W129.Black-White	22 AWG Black - White		22 AWG	16 in		
0V_2	SHK_POT_FL.2	 W142.Black-White	22 AWG Black - White		22 AWG	50 in		
0V_2	SHK_POT_FR.2	 W144.Black-White	22 AWG Black - White		22 AWG	37 in		
0V_2	STR_ANG.2	 W131.Black-White	22 AWG Black - White		22 AWG	8 in		
0V_2	WHL_SPD_FL.2	 W128.Black-White	22 AWG Black - White		22 AWG	22 in		
0V_2	WHL_SPD_FR.2	 W134.Black-White	22 AWG Black - White		22 AWG	16 in		
5V_1	5V_2	 W110.Orange	22 AWG Orange		22 AWG	24 in		
5V_1	M150_A.N/C	 W124.Orange	22 AWG Orange		22 AWG	9 in		
5V_2	ARDUINO.N/C	 W112.Orange	22 AWG Orange		22 AWG	37 in		
5V_2	BRK_P_F.1	 W87.Orange	22 AWG Orange		22 AWG	16 in		
5V_2	BRK_P_R.1	 W88.Orange	22 AWG Orange		22 AWG	16 in		
5V_2	SHK_POT_FL.1	 W118.Orange	22 AWG Orange		22 AWG	50 in		
5V_2	SHK_POT_FR.1	 W125.Orange	22 AWG Orange		22 AWG	37 in		
5V_2	STR_ANG.1	 W89.Orange	22 AWG Orange		22 AWG	8 in		
5V_2	WHL_SPD_FL.N/C	 W86.Orange	22 AWG Orange		22 AWG	22 in		
5V_2	WHL_SPD_FR.1	 W119.Orange	22 AWG Orange		22 AWG	16 in		
12V_AUX	M150_C.N/C	 W16.Red	18 AWG Red		18 AWG	9 in		
ARDUINO.N/C	CAN_HI_2	 W179.Green	22 AWG Green		22 AWG	15 in		
ARDUINO.N/C	CAN_LO_2	 W162.Yellow	22 AWG Yellow		22 AWG	15 in		
AUX_R	SWT_PNL.1	 W166.Violet	22 AWG Violet		22 AWG	4 in		
AUX_W	SWT_PNL.2	 W169.Black	22 AWG Black		22 AWG	4 in		
BRK_P_F.3	M150_A.N/C	 W93.Pink	22 AWG Pink		22 AWG	49 in		
BRK_P_R.3	M150_A.N/C	 W94.Pink	22 AWG Pink		22 AWG	49 in		
BRL_F.N/C	0V_1	 W141.Black-White	22 AWG Black - White		22 AWG	21 in		
BRL_F.N/C	5V_1	 W114.Orange	22 AWG Orange		22 AWG	21 in		
BRL_F.N/C	12V_AUX	 W18.Red	18 AWG Red		18 AWG	21 in		
BRL_F.N/C	CAN_HI_1	 W185.Green	22 AWG Green		22 AWG	21 in		
BRL_F.N/C	CAN_LO_1	 W157.Yellow	22 AWG Yellow		22 AWG	21 in		
BRL_F.N/C	GND_1	 W20.Black	18 AWG Black		18 AWG	21 in		
BRL_F.N/C	M150_A.N/C	 CBL2.Black	2 Wire 22 AWG shielded		22 AWG	30 in		
BRL_F.N/C	M150_A.N/C	 CBL2.Brown	2 Wire 22 AWG shielded		22 AWG	30 in		
BRL_F.N/C	M150_A.N/C	 CBL3.Black	3 Wire 22 AWG shielded		22 AWG	30 in		
BRL_F.N/C	M150_A.N/C	 CBL3.Brown	3 Wire 22 AWG shielded		22 AWG	30 in		
BRL_F.N/C	M150_A.N/C	 CBL3.Red	3 Wire 22 AWG shielded		22 AWG	30 in		
BRL_F.N/C	M150_A.N/C	 CBL4.Black	3 Wire 22 AWG shielded		22 AWG	30 in		
BRL_F.N/C	M150_A.N/C	 CBL4.Brown	3 Wire 22 AWG shielded		22 AWG	30 in		
BRL_F.N/C	M150_A.N/C	 CBL4.Red	3 Wire 22 AWG shielded		22 AWG	30 in		
BRL_F.N/C	M150_A.N/C	 W96.Pink	22 AWG Pink		22 AWG	30 in		WHL_SPD_RL

Title:	----
Part Number:	2024 Front Harness
Description:	

From	To	Conductor	Conductor PN	Twisted With	Gauge	Length	From Contact PN	Notes
BRL_F.N/C	M150_A.N/C	 W97.Pink	22 AWG Pink		22 AWG	30 in		WHL_SPD_RR
BRL_F.N/C	M150_A.N/C	 W98.Pink	22 AWG Pink		22 AWG	30 in		SHK_POT_RL
BRL_F.N/C	M150_A.N/C	 W99.Pink	22 AWG Pink		22 AWG	30 in		SHK_POT_RR
BRL_F.N/C	M150_A.N/C	 W100.Pink	22 AWG Pink		22 AWG	30 in		VHL_SPD
BRL_F.N/C	M150_A.N/C	 W101.Pink	22 AWG Pink		22 AWG	30 in		CLNT_T
BRL_F.N/C	M150_A.N/C	 W102.Pink	22 AWG Pink		22 AWG	30 in		OIL_P
BRL_F.N/C	M150_A.N/C	 W103.Pink	22 AWG Pink		22 AWG	30 in		TPS
BRL_F.N/C	M150_A.N/C	 W104.Pink	22 AWG Pink		22 AWG	30 in		TMAP_P
BRL_F.N/C	M150_A.N/C	 W105.Pink	22 AWG Pink		22 AWG	30 in		TMAP_T
BRL_F.N/C	M150_A.N/C	 W106.Pink	22 AWG Pink		22 AWG	30 in		FL_P
BRL_F.N/C	M150_A.N/C	 W107.Pink	22 AWG Pink		22 AWG	30 in		CMP
BRL_F.N/C	M150_A.N/C	 W108.Pink	22 AWG Pink		22 AWG	30 in		EGT
BRL_F.N/C	M150_A.N/C	 W109.Pink	22 AWG Pink		22 AWG	30 in		AMB_P
BRL_F.N/C	M150_A.N/C	 W146.Gray-Blue	22 AWG Gray - Blue Stripe		22 AWG	30 in		INJ_4
BRL_F.N/C	M150_A.N/C	 W147.Gray-Green	22 AWG Gray - Green Stripe		22 AWG	30 in		INJ_3
BRL_F.N/C	M150_A.N/C	 W148.Gray-Red	22 AWG Gray - Red Stripe		22 AWG	30 in		INJ_2
BRL_F.N/C	M150_A.N/C	 W149.Gray-Black	22 AWG Gray - Black Stripe		22 AWG	30 in		INJ_1
BRL_F.N/C	M150_A.N/C	 W150.White-Blue	18 AWG White-Blue		18 AWG	30 in		COIL_4
BRL_F.N/C	M150_A.N/C	 W151.White-Green	18 AWG White-Green		18 AWG	30 in		COIL_3
BRL_F.N/C	M150_A.N/C	 W152.White-Red	18 AWG White-Red		18 AWG	30 in		COIL_2
BRL_F.N/C	M150_A.N/C	 W153.White-Black	18 AWG White-Black		18 AWG	30 in		COIL_1
BRL_F.N/C	M150_A.N/C	 W164.Blue	22 AWG Blue		22 AWG	30 in		
BRL_F.N/C	M150_A.N/C	 W165.Blue	22 AWG Blue		22 AWG	30 in		
BRL_F.N/C	M150_A.N/C	 W183.Black	18 AWG Black		18 AWG	30 in		BRAKE LIGHT TRIGGER
BRL_F.N/C	SWT.1	 W73.Violet	22 AWG Violet		22 AWG	79 in		KILL_SWT 12V
BRL_F.N/C	SWT.3	 W74.Violet	22 AWG Violet		22 AWG	79 in		STR_SWT 12V
BRL_F.N/C	SWT.5	 W75.Violet	22 AWG Violet		22 AWG	79 in		AUX_SWT 12V
CAN_HI_1	CAN_HI_2	 W176.Green	22 AWG Green		22 AWG	46 in		
CAN_HI_1	M150_B.N/C	 W177.Green	22 AWG Green		22 AWG	9 in		
CAN_HI_2	R1.POS	 W178.Green	22 AWG Green		22 AWG	0 in		
CAN_LO_1	CAN_LO_2	 W154.Yellow	22 AWG Yellow		22 AWG	46 in		
CAN_LO_1	M150_B.N/C	 W155.Yellow	22 AWG Yellow		22 AWG	9 in		
CAN_LO_2	R1.NEG	 W156.Yellow	22 AWG Yellow		22 AWG	0 in		
ETH.1	M150_D.N/C	 W48.Brown	22 AWG Brown		22 AWG	28 in		
ETH.2	M150_D.N/C	 W180.Brown	22 AWG Brown		22 AWG	28 in		
ETH.3	M150_D.N/C	 W181.Brown	22 AWG Brown		22 AWG	28 in		
ETH.4	M150_D.N/C	 W182.Brown	22 AWG Brown		22 AWG	28 in		
GND_1	GND_2	 W83.Black	22 AWG Black		22 AWG	24 in		
GND_2	ARDUINO.N/C	 W84.Black	22 AWG Black		22 AWG	37 in		
GND_2	INA_SWT.2	 W78.Black	22 AWG Black		22 AWG	42 in		
GND_2	SWT.4	 W76.Black	22 AWG Black		22 AWG	34 in		STR_SWT GROUND

Title:	----
Part Number:	2024 Front Harness
Description:	

From	To	Conductor	Conductor PN	Twisted With	Gauge	Length	From Contact PN	Notes
GND_2	SWT.6	W85.Black	22 AWG Black		22 AWG	34 in		AUX_SWT GROUND
KILL_B	SWT_PNL.4	W170.Black	22 AWG Black		22 AWG	4 in		
KILL_W	SWT_PNL.3	W167.Violet	22 AWG Violet		22 AWG	4 in		
M150_A.N/C	ACCEL.3	W190.Pink	22 AWG Pink		22 AWG	≥ 4 in		Reverse splice
M150_A.N/C	SHK_POT_FL.3	W191.Pink	22 AWG Pink		22 AWG	83 in		
M150_A.N/C	SHK_POT_FR.3	W187.Pink	22 AWG Pink		22 AWG	70 in		
M150_A.N/C	WHL_SPD_FL.3	W92.Pink	22 AWG Pink		22 AWG	55 in		
M150_A.N/C	WHL_SPD_FR.3	W186.Pink	22 AWG Pink		22 AWG	49 in		
M150_C.N/C	GND_1	W184.Black	18 AWG Black		18 AWG	9 in		
OTS.2	INA_SWT.1	W77.Black	22 AWG Black		22 AWG	42 in		MUST ADD ~12" FOR PEDAL MOVING BACK
STR_ANG.3	M150_A.N/C	W95.Pink	22 AWG Pink		22 AWG	41 in		
STR_SWT_B	SWT_PNL.6	W171.Black	22 AWG Black		22 AWG	4 in		
STR_SWT_Y	SWT_PNL.5	W168.Violet	22 AWG Violet		22 AWG	4 in		
SWT.2	OTS.1	W82.Black	22 AWG Black		22 AWG	82 in		KILL_SWT GROUND