Revisions			
Rev.	Date	Author	Description
A	2/18/2019	Jefferson Jones	
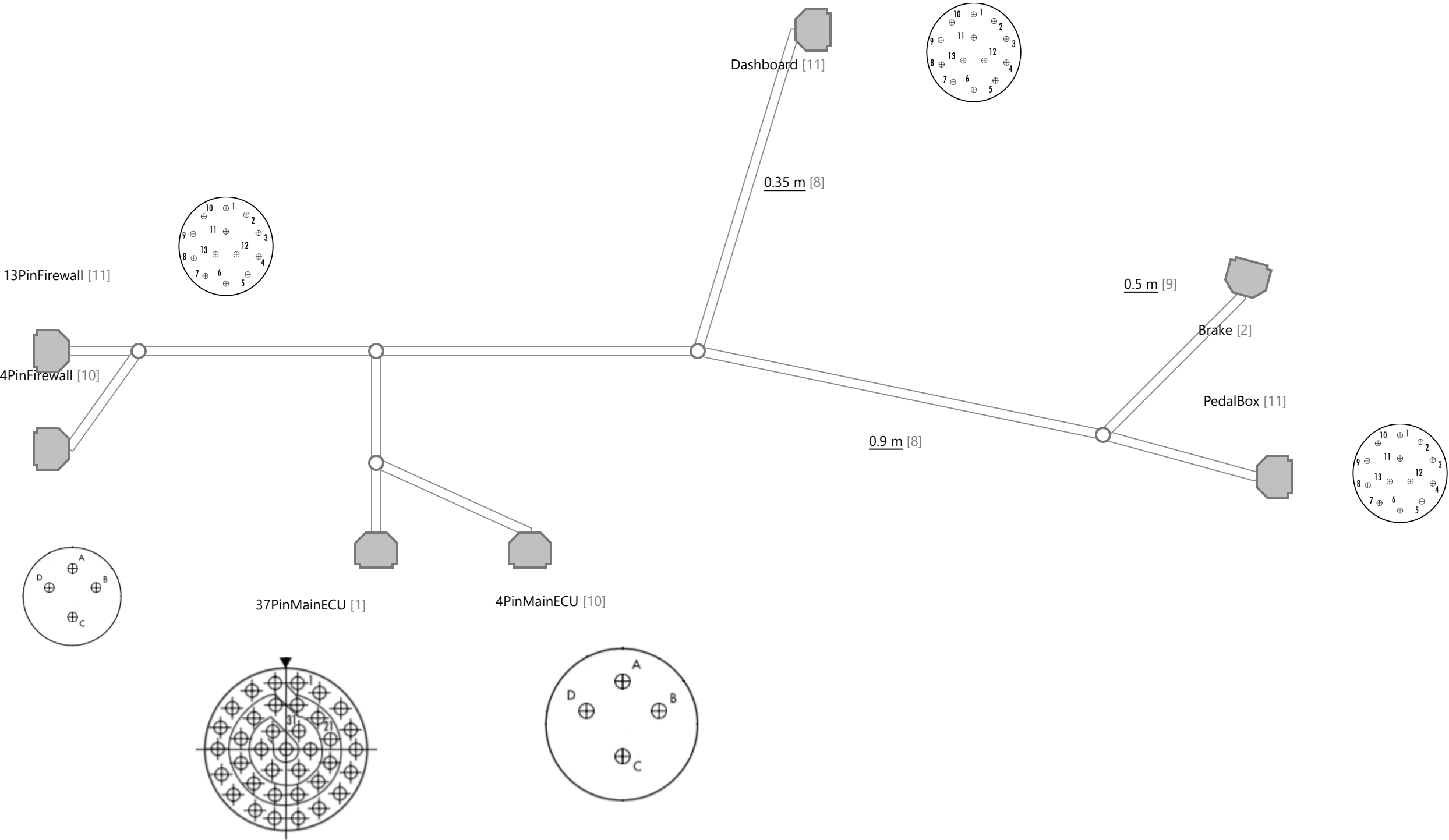
Dashboard [11]

13PinFirewall [11]

0.35 m [8]

0.5 m [9]

Brake [2]

4PinFirewall [10]

PedalBox [11]

0.9 m [8]

37PinMainECU [1]

4PinMainECU [10]

	Name	Date
Drawn By	----	----
Eng Approved	----	----
Mfg Approved	----	----
QA	----	----

Title ----

Part Number HT04 Front Harness

Description

Revision ----

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Id	Type	Manufacturer	Part Number	Description	Quantity	Usage
1	Connector	TE:Deutsch	AS614-35PN	37 Pin Plug, 22 Gauge	1	37PinMainECU
2	Connector		3 Cavity	Generic Connector	1	Brake
3	Wire		22 AWG Red	Generic Wire	≥ 3.55 m	ACCEL1_5V, ACCEL2_5V, BRAKE_5V, BrakeLight, DASH12V, InverterSupply, SSOK
4	Wire		22 AWG White	Generic Wire	≥ 4.2 m	DASH1, DASH2, DASH3, DASH4, DASH5, DASH6, DASH7, DASH8, DASH9, DASH10, DASH11, DASH12
5	Wire		22 AWG Green	Generic Wire	≥ 3.2 m	ACCEL1_GND, ACCEL2_GND, BRAKE_GND
6	Wire		22 AWG Yellow	Generic Wire	≥ 3.2 m	ACCEL1, ACCEL2, BMSOK, BRAKE, LatchEXTButton, OKHS, W4, W5
7	Wire		16 AWG Violet	Generic Wire	≥ 2.5 m	SHUTDOWN_D, SHUTDOWN_E, SHUTDOWN_F, W1
8	Tubing		Raychem 1/2"	Raychem 1/2"	1.25 m	See Drawing
9	Tubing		Raychem 1/4"	Raychem 1/4"	0.5 m	See Drawing
10	Connector	TE:Deutsch	AS612-04SN	4 Pin Plug, 16 Gauge	2	4PinFirewall, 4PinMainECU
11	Connector	TE:Deutsch	AS610-35PN Plug	13 Pin Autosport Connector	3	13PinFirewall, Dashboard, PedalBox
12	Wire		16 AWG Green	Generic Wire		Fan1GND, GND, PumpGND
13	Wire		16 AWG Red	Generic Wire		12VIN, Fan1
14	Cable		CAN Cable	Cable for CAN Communications and Power		CBL1
15	Wire		22 AWG Black	Generic Wire	≥ 0.35 m	DASHGND, GNDShield

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From	To	Conductor	Conductor PN	Twisted With	Gauge	Length	From Contact PN	Notes
4PinFirewall.1	4PinMainECU.1	12VIN.Red	16 AWG Red		16 AWG			
4PinFirewall.2	4PinMainECU.2	PumpGND.Green	16 AWG Green		16 AWG			
4PinFirewall.3	4PinMainECU.3	Fan1GND.Green	16 AWG Green		16 AWG			
4PinFirewall.4	4PinMainECU.4	GND.Green	16 AWG Green		16 AWG			
13PinFirewall.12	Dashboard.13	SHUTDOWN_F.Violet	16 AWG Violet		16 AWG	≥ 0.35 m		
13PinFirewall.13	Dashboard.16	SSOK.Red	22 AWG Red		22 AWG	≥ 0.35 m		
37PinMainECU.1	Dashboard.2	DASH1.White	22 AWG White		22 AWG	≥ 0.35 m		
37PinMainECU.2	Dashboard.3	DASH2.White	22 AWG White		22 AWG	≥ 0.35 m		
37PinMainECU.3	Dashboard.4	DASH3.White	22 AWG White		22 AWG	≥ 0.35 m		
37PinMainECU.4	Dashboard.5	DASH4.White	22 AWG White		22 AWG	≥ 0.35 m		
37PinMainECU.5	PedalBox.12	SHUTDOWN_D.Violet	16 AWG Violet		16 AWG	≥ 0.9 m		
37PinMainECU.6	Dashboard.12	DASH11.White	22 AWG White		22 AWG	≥ 0.35 m		
37PinMainECU.7	13PinFirewall.2	InverterSupply.Red	22 AWG Red		22 AWG			
37PinMainECU.8	Brake.3	BRAKE.Yellow	22 AWG Yellow		22 AWG	≥ 1.4 m		
37PinMainECU.9	13PinFirewall.3	BrakeLight.Red	22 AWG Red		22 AWG			
37PinMainECU.10	13PinFirewall.4	CBL1.Red-PWR	CAN Cable		22 AWG			
37PinMainECU.11	13PinFirewall.5	CBL1.White-CANL	CAN Cable		22 AWG			
37PinMainECU.12	13PinFirewall.6	CBL1.Green-CANH	CAN Cable		22 AWG			
37PinMainECU.14	Brake.2	BRAKE_GND.Green	22 AWG Green		22 AWG	≥ 1.4 m		
37PinMainECU.15	PedalBox.1	ACCEL2_GND.Green	22 AWG Green		22 AWG	≥ 0.9 m		
37PinMainECU.16	PedalBox.5	ACCEL1_GND.Green	22 AWG Green		22 AWG	≥ 0.9 m		
37PinMainECU.17	13PinFirewall.7	Fan1.Red	16 AWG Red		16 AWG			
37PinMainECU.18	Dashboard.6	DASH5.White	22 AWG White		22 AWG	≥ 0.35 m		
37PinMainECU.19	Dashboard.7	DASH6.White	22 AWG White		22 AWG	≥ 0.35 m		
37PinMainECU.20	Dashboard.8	DASH7.White	22 AWG White		22 AWG	≥ 0.35 m		
37PinMainECU.21	Dashboard.9	DASH8.White	22 AWG White		22 AWG	≥ 0.35 m		
37PinMainECU.22	Dashboard.13	DASH12.White	22 AWG White		22 AWG	≥ 0.35 m		
37PinMainECU.23	Dashboard.10	DASH9.White	22 AWG White		22 AWG	≥ 0.35 m		
37PinMainECU.24	PedalBox.4	ACCEL2.Yellow	22 AWG Yellow		22 AWG	≥ 0.9 m		
37PinMainECU.25	PedalBox.3	ACCEL1.Yellow	22 AWG Yellow		22 AWG	≥ 0.9 m		
37PinMainECU.27	PedalBox.6	ACCEL1_5V.Red	22 AWG Red		22 AWG	≥ 0.9 m		
37PinMainECU.28	PedalBox.2	ACCEL2_5V.Red	22 AWG Red		22 AWG	≥ 0.9 m		
37PinMainECU.29	Brake.1	BRAKE_5V.Red	22 AWG Red		22 AWG	≥ 1.4 m		
37PinMainECU.30	13PinFirewall.8	CBL1.Black-GND	CAN Cable		22 AWG			
37PinMainECU.31	13PinFirewall.9	BMSOK.Yellow	22 AWG Yellow		22 AWG			
37PinMainECU.32	Dashboard.11	DASH10.White	22 AWG White		22 AWG	≥ 0.35 m		
37PinMainECU.33	13PinFirewall.10	OKHS.Yellow	22 AWG Yellow		22 AWG			
37PinMainECU.36	13PinFirewall.1	GNDShield.Black	22 AWG Black		22 AWG			
37PinMainECU.36	Dashboard.1	DASHGND.Black	22 AWG Black		22 AWG	≥ 0.35 m		
37PinMainECU.37	13PinFirewall.11	LatchEXTButton.Yellow	22 AWG Yellow		22 AWG			
Dashboard.12	PedalBox.13	SHUTDOWN_E.Violet	16 AWG Violet		16 AWG	≥ 1.25 m		

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#	Type	Reference Designator	Manufacturer	Part Number	Color		Gauge	Length	Twisted With
1	Cable	CBL1		CAN Cable		Gray			
2	Wire	12VIN		16 AWG Red		Red	16 AWG		
3	Wire	ACCEL1		22 AWG Yellow		Yellow	22 AWG	≥ 0.9 m	
4	Wire	ACCEL1_5V		22 AWG Red		Red	22 AWG	≥ 0.9 m	
5	Wire	ACCEL1_GND		22 AWG Green		Green	22 AWG	≥ 0.9 m	
6	Wire	ACCEL2		22 AWG Yellow		Yellow	22 AWG	≥ 0.9 m	
7	Wire	ACCEL2_5V		22 AWG Red		Red	22 AWG	≥ 0.9 m	
8	Wire	ACCEL2_GND		22 AWG Green		Green	22 AWG	≥ 0.9 m	
9	Wire	BMSOK		22 AWG Yellow		Yellow	22 AWG		
10	Wire	BRAKE		22 AWG Yellow		Yellow	22 AWG	≥ 1.4 m	
11	Wire	BRAKE_5V		22 AWG Red		Red	22 AWG	≥ 1.4 m	
12	Wire	BRAKE_GND		22 AWG Green		Green	22 AWG	≥ 1.4 m	
13	Wire	BrakeLight		22 AWG Red		Red	22 AWG		
14	Wire	DASH1		22 AWG White		White	22 AWG	≥ 0.35 m	
15	Wire	DASH2		22 AWG White		White	22 AWG	≥ 0.35 m	
16	Wire	DASH3		22 AWG White		White	22 AWG	≥ 0.35 m	
17	Wire	DASH4		22 AWG White		White	22 AWG	≥ 0.35 m	
18	Wire	DASH5		22 AWG White		White	22 AWG	≥ 0.35 m	
19	Wire	DASH6		22 AWG White		White	22 AWG	≥ 0.35 m	
20	Wire	DASH7		22 AWG White		White	22 AWG	≥ 0.35 m	
21	Wire	DASH8		22 AWG White		White	22 AWG	≥ 0.35 m	
22	Wire	DASH9		22 AWG White		White	22 AWG	≥ 0.35 m	
23	Wire	DASH10		22 AWG White		White	22 AWG	≥ 0.35 m	
24	Wire	DASH11		22 AWG White		White	22 AWG	≥ 0.35 m	
25	Wire	DASH12		22 AWG White		White	22 AWG	≥ 0.35 m	
26	Wire	DASH12V		22 AWG Red		Red	22 AWG	0 in	
27	Wire	DASHGND		22 AWG Black		Black	22 AWG	≥ 0.35 m	
28	Wire	Fan1		16 AWG Red		Red	16 AWG		
29	Wire	Fan1GND		16 AWG Green		Green	16 AWG		
30	Wire	GND		16 AWG Green		Green	16 AWG		
31	Wire	GNDShield		22 AWG Black		Black	22 AWG		
32	Wire	InverterSupply		22 AWG Red		Red	22 AWG		
33	Wire	LatchEXTButton		22 AWG Yellow		Yellow	22 AWG		
34	Wire	OKHS		22 AWG Yellow		Yellow	22 AWG		
35	Wire	PumpGND		16 AWG Green		Green	16 AWG		
36	Wire	SHUTDOWN_D		16 AWG Violet		Violet	16 AWG	≥ 0.9 m	
37	Wire	SHUTDOWN_E		16 AWG Violet		Violet	16 AWG	≥ 1.25 m	
38	Wire	SHUTDOWN_F		16 AWG Violet		Violet	16 AWG	≥ 0.35 m	
39	Wire	SSOK		22 AWG Red		Red	22 AWG	≥ 0.35 m	
40	Wire	W1		16 AWG Violet		Violet	16 AWG	0 in	
41	Wire	W4		22 AWG Yellow		Yellow	22 AWG	0 in	

Title:	----
Part Number:	HT04 Front Harness
Description:	

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#	Type	Reference Designator	Manufacturer	Part Number	Color	Gauge	Length	Twisted With
42	Wire	W5		22 AWG Yellow	Yellow	22 AWG	0 in	

Title:	----
Part Number:	HT04 Front Harness
Description:	

#	Manufacturer	Part Number	Description	Label Text