

Revisions			
Rev.	Date	Author	Description
A	1/9/2019	Jefferson Jones	

From	To	Conductor	Color	Gauge	From Contact PN
C7.1	C4.1	W13.White		22 AWG	
C7.2	C4.2	W14.White		22 AWG	
C7.3	C4.3	W15.White		22 AWG	
C7.4	C4.4	W16.White		22 AWG	
C7.5	C1.3	W31.Violet		16 AWG	
C7.7	C1.5	W27.Red		16 AWG	
C7.8	C5.3	W11.Yellow		22 AWG	
C7.9	C1.4	W32.Red		22 AWG	
C7.10	C2.4	W5.Red		22 AWG	
C7.11	C2.7	W34.White		24 AWG	
C7.12	C2.8	W35.Green		22 AWG	
C7.14	C5.2	W2.Black		22 AWG	
C7.17	C1.9	W26.Red		16 AWG	
C7.18	C4.5	W17.White		22 AWG	
C7.19	C4.6	W18.White		22 AWG	
C7.20	C4.7	W19.White		22 AWG	
C7.21	C4.8	W20.White		22 AWG	
C7.24	C5.6	W10.Yellow		22 AWG	
C7.25	C5.9	W9.Yellow		22 AWG	
C7.27	C5.1	W7.Red		22 AWG	
C7.31	C1.2	W30.White		22 AWG	
C7.33	C1.1	W29.White		22 AWG	
C7.34	12VDash	W6.Red		22 AWG	
C7.36	C2.3	W1.Black		22 AWG	
C7.36	C2.6	W3.Black		22 AWG	
C7.37	C2.10	W33.White		22 AWG	

- Notes
- 1

Make sure to connect pins 5 and 8 on the pedal sensor connector to ground as well.
- 2

Make sure to connect pins 4 and 7 on the pedal sensor connector to 5V
- 3

12V Dash is to be wired to all indicators on the dashboard
- 4

One GND connection on this connector is unnecessary, as it went to the Front ECU. I am not sure which one that is, so both are here.
- 5

2 more Dash IOs are possible with this configuration, but I reached the connection limit. Check the Main ECU schematic to see which pins to connect, they are called DASH\_CTRL9 and DASH\_CTRL10
- 6

An additional connector will be needed to complete the shutdown circuit. Pins 1 and 2 on a 10 Pin MX150L should be connected to complete the circuit. Connection is not shown since connection limit has been reached.

From	To	Conductor	Color	Gauge	From Contact PN
C8.1	C2.2	W23.Red		16 AWG	
C8.2	C1.7	W24.Red		16 AWG	
C8.3	C1.8	W25.Red		16 AWG	
C8.4	C1.10	W28.Black		16 AWG	

From	To	Conductor	Color	Gauge
12VDash	C7.34	W6.Red		22 AWG

From	To	Conductor	Color	Gauge	From Contact PN
C4.1	C7.1	W13.White		22 AWG	
C4.2	C7.2	W14.White		22 AWG	
C4.3	C7.3	W15.White		22 AWG	
C4.4	C7.4	W16.White		22 AWG	
C4.5	C7.18	W17.White		22 AWG	
C4.6	C7.19	W18.White		22 AWG	
C4.7	C7.20	W19.White		22 AWG	
C4.8	C7.21	W20.White		22 AWG	

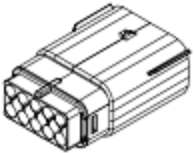


From	To	Conductor	Color	Gauge	From Contact PN
C1.1	C7.33	W29.White		22 AWG	
C1.2	C7.31	W30.White		22 AWG	
C1.3	C7.5	W31.Violet		16 AWG	
C1.4	C7.9	W32.Red		22 AWG	
C1.5	C7.7	W27.Red		16 AWG	
C1.7	C8.2	W24.Red		16 AWG	
C1.8	C8.3	W25.Red		16 AWG	
C1.9	C7.17	W26.Red		16 AWG	
C1.10	C8.4	W28.Black		16 AWG	

From	To	Conductor	Color	Gauge	From Contact PN
C2.2	C8.1	W23.Red		16 AWG	
C2.3	C7.36	W1.Black		22 AWG	
C2.4	C7.10	W5.Red		22 AWG	
C2.6	C7.36	W3.Black		22 AWG	
C2.7	C7.11	W34.White		24 AWG	
C2.8	C7.12	W35.Green		22 AWG	
C2.10	C7.37	W33.White		22 AWG	

Bill of Materials				
Id	Type	Manufacturer	Part Number	Quantity
1	Connector	Molex	19419-0015	5
2	Connector	TE:Deutsch	AS614-35PN	1
3	Connector	TE:Deutsch	AS612-04SN	1
4	Wire		22 AWG Black	≥ 0 in
5	Wire		22 AWG Red	≥ 0 in
6	Wire		22 AWG Yellow	
7	Wire		22 AWG White	≥ 0 in
8	Wire		16 AWG Red	
9	Wire		16 AWG Black	
10	Wire		16 AWG Violet	
11	Wire		24 AWG White	
12	Wire		22 AWG Green	

From	To	Conductor	Color	Gauge	From Contact PN
C5.1	C7.27	W7.Red		22 AWG	
C5.2	C7.14	W2.Black		22 AWG	
C5.3	C7.8	W11.Yellow		22 AWG	
C5.6	C7.24	W10.Yellow		22 AWG	
C5.9	C7.25	W9.Yellow		22 AWG	

































Title	----	Part Number	HT03 Test Harness	
Description			Revision	----

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




































<b>Title:</b>	----
<b>Part Number:</b>	HT03 Test Harness
<b>Description:</b>	

Id	Type	Manufacturer	Part Number	Description	Quantity	Usage
1	Connector	Molex	19419-0015	MX150L 10 Circuit Plug for 18-22 AWG Wire	5	C1, C2, C3, C4, C5
2	Connector	TE:Deutsch	AS614-35PN	37 Pin Plug, 22 Gauge	1	C7
3	Connector	TE:Deutsch	AS612-04SN	4 Pin Plug, 16 Gauge	1	C8
4	Wire		22 AWG Black	Generic Wire	≥ 0 in	W1, W2, W3, W4
5	Wire		22 AWG Red	Generic Wire	≥ 0 in	W5, W6, W7, W8, W12, W32
6	Wire		22 AWG Yellow	Generic Wire		W9, W10, W11
7	Wire		22 AWG White	Generic Wire	≥ 0 in	W13, W14, W15, W16, W17, W18, W19, W20, W21, W22, W29, W30, W33
8	Wire		16 AWG Red	Generic Wire		W23, W24, W25, W26, W27
9	Wire		16 AWG Black	Generic Wire		W28
10	Wire		16 AWG Violet	Generic Wire		W31
11	Wire		24 AWG White	Generic Wire		W34
12	Wire		22 AWG Green	Generic Wire		W35

<b>Title:</b>	----
<b>Part Number:</b>	HT03 Test Harness
<b>Description:</b>	

From	To	Conductor	Conductor PN	Twisted With	Gauge	Length	From Contact PN	Notes
C4.1	C7.1	 W13.White	22 AWG White		22 AWG			DashIO1
C4.2	C7.2	 W14.White	22 AWG White		22 AWG			DashIO2
C4.3	C7.3	 W15.White	22 AWG White		22 AWG			DashIO3
C4.4	C7.4	 W16.White	22 AWG White		22 AWG			DashIO4
C4.5	C7.18	 W17.White	22 AWG White		22 AWG			DashIO5
C4.6	C7.19	 W18.White	22 AWG White		22 AWG			DashIO6
C4.7	C7.20	 W19.White	22 AWG White		22 AWG			DashIO7
C4.8	C7.21	 W20.White	22 AWG White		22 AWG			DashIO8
C5.1	C7.27	 W7.Red	22 AWG Red		22 AWG			5V
C5.2	C7.14	 W2.Black	22 AWG Black		22 AWG			GND
C7.5	C1.3	 W31.Violet	16 AWG Violet		16 AWG			Shutdown Circuit
C7.7	C1.5	 W27.Red	16 AWG Red		16 AWG			InverterSupply
C7.8	C5.3	 W11.Yellow	22 AWG Yellow		22 AWG			BrakeSignal
C7.9	C1.4	 W32.Red	22 AWG Red		22 AWG			BrakeLight
C7.10	C2.4	 W5.Red	22 AWG Red		22 AWG			12VSupplyAccumulator
C7.11	C2.7	 W34.White	24 AWG White		24 AWG			CANL
C7.12	C2.8	 W35.Green	22 AWG Green		22 AWG			CANH
C7.17	C1.9	 W26.Red	16 AWG Red		16 AWG			BMS Fans
C7.24	C5.6	 W10.Yellow	22 AWG Yellow		22 AWG			Accel2
C7.25	C5.9	 W9.Yellow	22 AWG Yellow		22 AWG			Accel1
C7.31	C1.2	 W30.White	22 AWG White		22 AWG			BMSOK
C7.33	C1.1	 W29.White	22 AWG White		22 AWG			OKHS
C7.34	12VDash	 W6.Red	22 AWG Red		22 AWG			12V for dash
C7.36	C2.3	 W1.Black	22 AWG Black		22 AWG			GND
C7.36	C2.6	 W3.Black	22 AWG Black		22 AWG			GND
C7.37	C2.10	 W33.White	22 AWG White		22 AWG			EXTButton
C8.1	C2.2	 W23.Red	16 AWG Red		16 AWG			
C8.2	C1.7	 W24.Red	16 AWG Red		16 AWG			Pump-
C8.3	C1.8	 W25.Red	16 AWG Red		16 AWG			MainFan
C8.4	C1.10	 W28.Black	16 AWG Black		16 AWG			MainGND

<b>Title:</b>	----
<b>Part Number:</b>	HT03 Test Harness
<b>Description:</b>	

#	Type	Reference Designator	Manufacturer	Part Number	Color	Gauge	Length	Twisted With
1	Wire	W1		22 AWG Black	 Black	22 AWG		
2	Wire	W2		22 AWG Black	 Black	22 AWG		
3	Wire	W3		22 AWG Black	 Black	22 AWG		
4	Wire	W4		22 AWG Black	 Black	22 AWG	0 in	
5	Wire	W5		22 AWG Red	 Red	22 AWG		
6	Wire	W6		22 AWG Red	 Red	22 AWG		
7	Wire	W7		22 AWG Red	 Red	22 AWG		
8	Wire	W8		22 AWG Red	 Red	22 AWG	0 in	
9	Wire	W9		22 AWG Yellow	 Yellow	22 AWG		
10	Wire	W10		22 AWG Yellow	 Yellow	22 AWG		
11	Wire	W11		22 AWG Yellow	 Yellow	22 AWG		
12	Wire	W12		22 AWG Red	 Red	22 AWG	0 in	
13	Wire	W13		22 AWG White	 White	22 AWG		
14	Wire	W14		22 AWG White	 White	22 AWG		
15	Wire	W15		22 AWG White	 White	22 AWG		
16	Wire	W16		22 AWG White	 White	22 AWG		
17	Wire	W17		22 AWG White	 White	22 AWG		
18	Wire	W18		22 AWG White	 White	22 AWG		
19	Wire	W19		22 AWG White	 White	22 AWG		
20	Wire	W20		22 AWG White	 White	22 AWG		
21	Wire	W21		22 AWG White	 White	22 AWG	0 in	
22	Wire	W22		22 AWG White	 White	22 AWG	0 in	
23	Wire	W23		16 AWG Red	 Red	16 AWG		
24	Wire	W24		16 AWG Red	 Red	16 AWG		
25	Wire	W25		16 AWG Red	 Red	16 AWG		
26	Wire	W26		16 AWG Red	 Red	16 AWG		
27	Wire	W27		16 AWG Red	 Red	16 AWG		
28	Wire	W28		16 AWG Black	 Black	16 AWG		
29	Wire	W29		22 AWG White	 White	22 AWG		
30	Wire	W30		22 AWG White	 White	22 AWG		
31	Wire	W31		16 AWG Violet	 Violet	16 AWG		
32	Wire	W32		22 AWG Red	 Red	22 AWG		
33	Wire	W33		22 AWG White	 White	22 AWG		
34	Wire	W34		24 AWG White	 White	24 AWG		
35	Wire	W35		22 AWG Green	 Green	22 AWG		

<b>Title:</b>	----
<b>Part Number:</b>	HT03 Test Harness
<b>Description:</b>	



#	Manufacturer	Part Number	Description	Label Text