

Infinitybox L1 MASTERCELL Pinout Documentation  
MASTERCELL PCB P/N 852-011 REV 10.2  
Release Date: 2012\_08\_21  
Revision 2.3

Note: All pin references relate to Aptiv standard cavity identification for the mating connector.

MASTERCELL CAN Connector Details:

Component	Delphi Part Number
Connector	15357036
Retainer	15318138
Seal	15318139
Strain Relief	15318140
CPA	15318141
Cavity Plugs	12129557
Terminal	15435885

MASTERCELL CAN Connector Pinouts:

Cavity Identification	Function	Reference Wire Color
1	Charge Pump (Not Used)	N/A
2	CAN LOW	Green
3	CAN HIGH	Blue
4	Battery Voltage	Red
5	Ground	Black
6	CAN LOW	Green
7	CAN HIGH	Blue
8	Battery Voltage	Red

MASTERCELL A Connector Details

<b>Component</b>	<b>Delphi Part Number</b>
<b>Connector</b>	12129025
<b>Retainer</b>	12129021
<b>Seal</b>	12129026
<b>Strain Relief</b>	12129030
<b>CPA</b>	12110299
<b>Cavity Plugs</b>	12129557
<b>Terminal</b>	12084913

MASTERCELL B Connector Details

<b>Component</b>	<b>Delphi Part Number</b>
<b>Connector</b>	12129025
<b>Retainer</b>	12129022
<b>Seal</b>	12129026
<b>Strain Relief</b>	12129030
<b>CPA</b>	12110299
<b>Cavity Plugs</b>	12129557
<b>Terminal</b>	12084913

## MASTERCELL A Connector Pinouts

Cavity Identification	Function	Reference Wire Color
1	Input 1	White-Black
2	Input 3	White-Blue
3	Input 5	White-Green
4	Input 7	Blue-Red
5	Input 9	Blue-Yellow
6	Input 11	Yellow-Black
7	Input 13	Yellow-Blue
8	Input 15	Yellow-Green
9	Input 17	Tan-Red
10	Input 19	Tan-Yellow
11	Input 21	Green-Black
12	Input 23	Green-Blue
13	Ground	Black
14	Ground	Black
15	Ground	Black
16	Ground	Black
17	Input 2	White-Red
18	Input 4	White-Yellow
19	Input 6	Blue-Black
20	Input 8	Blue-Light Blue
21	Input 10	Blue-Green
22	Input 12	Yellow-Red
23	Input 14	Yellow-Orange
24	Input 16	Tan-Black
25	Input 18	Tan-Blue
26	Input 20	Tan-Green
27	Input 22	Green-Red
28	Input 24	Green-Orange
29	Ground	Black
30	Ground	Black
31	Ground	Black
32	Ground	Black

MASTERCELL B Connector Pinouts

Cavity Identification	Function	Reference Wire Color
1	Input 25	Pink-Black
17	Input 26	Pink-Red
2	Input 27	Pink-Blue
18	Input 28	Pink-Yellow
3	Input 29	Pin-Green
19	Input 30	Light Blue-Black
4	Input 31	Light Blue-Red
20	Input 32	Light Blue-Brown
5	Input 33	Light Blue-Yellow
21	Input 34	Light Blue-Green
6	Input 35	Tan-Black
22	Input 36	Tan-Red
7	Input 37	Tan-Blue
23	Input 38	Tan-Orange
8	Input 39	Tan-Green
24	Input 40	Tan-Black
9	Input 41	Brown-Red
25	Input 42	Brown-Blue
10	Input 43	Brown-Yellow
26	Input 44	Brown-Green
11	Input 45	Violet-Black
27	Input 46	Violet-Red
12	Input 47	Violet-Blue
28	Input 48	Violet-Orange
13	Not Used	N/A
29	Not Used	N/A
14	GROUND	Black
30	GROUND	Black
15	ANALOGUE IN 1	Orange
31	ANALOGUE IN 2	Yellow
16	+5 VOLT REFERENCE	Red
32	GROUND	Black