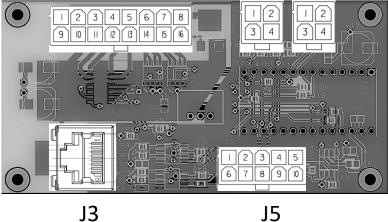
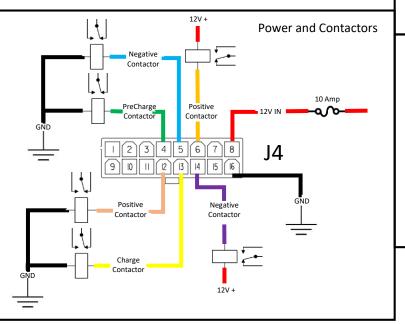
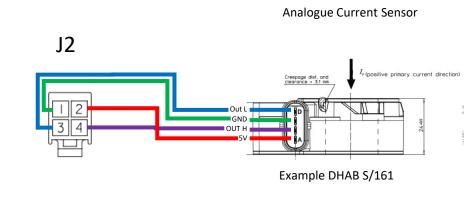
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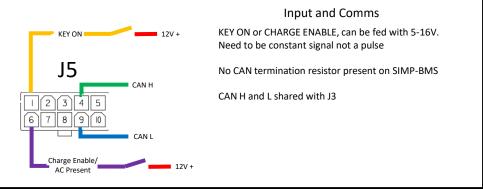
> J4 J2 J1





BMS Slaves : see pages below





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Connector 1 Tesla BMS

Supplier

Molex

Family

Mini fit 4 way 39-28-x04x

Part no

Harness Part 39-01-x04x

Pin	Function	
1	GND	
2	5V	
3	RXbms	
4	TXbms	





Connector 2 Current Sensor

Supplier

Molex Mini fit 4

Family

way

Part no

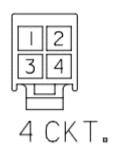
39-28-x04x

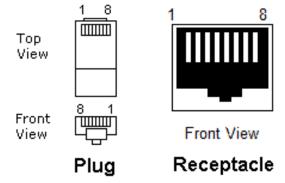
Harness Part 39-01-x04x

Pin	Function
1	GND
2	5V
3	Current 1
4	Current 2









Connector 3 Comms

Supplier

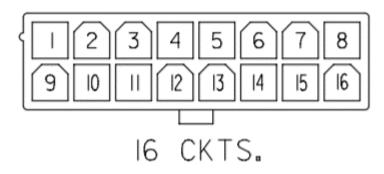
Family RJ45

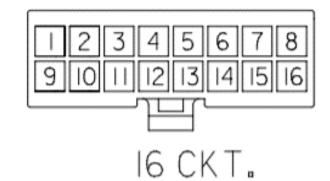
Part no

Harness Part -

Pin	Function	
1	GND	
2	12V	
3		
4	12V	
5	GND	
6		
7	CanH	
8	CanL	

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Connector 4 IO Supplier Molex

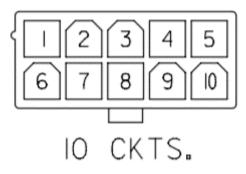
Family Mini fit 10 way
Part no 39-28-x16x
Harness Part 39-01-x16x

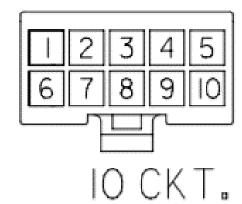
Pin	Function	Switching	Туре	V2 Normal usage	ESS Mode
1	5V Out	-	Supply	-	-
2	GND	-	Ground	-	-
3	GND	-	Ground	-	-
4	Out 2	High	Output	Precharge Cont	Cooling Demand*
5	Out 4	High	Output	Negative Cont	Heating Demand*
6	Out 6	Low	Output	Positive Cont	Charge Enable
7	Out 7	Low	Output	-	Negative Cont
8	12V IN	-	Power	Fused 12V IN	Fused 12V IN
9	12V	-	Supply	-	-
10	12V	-	Supply	-	-
11	12V	-	Supply	-	-
12	Out 1	High	Output	Positive Cont	Discharge Enable
13	Out 3	High	Output	Charge Cont	Charge Enable
14	Out 5	Low	Output	Negative Cont	Discharge Enable
15	Out 8	Low	Output	Gauge Out	Gauge Out
16	GND	-	Ground		

Function	Pin	Pin	Function
12V IN	8	16	GND
Out 7	7	15	Out 8
Out 6	6	14	Out 5
Out 4	5	13	Out 3
Out 2	4	12	Out 1
GND	3	11	12V
GND	2	10	12V
5V	1	9	12V

\*to be implemented

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Connector 5 Comms Supplier Molex

Family Mini fit 8 way Part no 39-28-x10x Harness Part 39-01-x10x

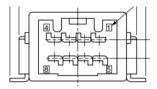
Pin	Function	Switching	Туре	V2 Normal usage	ESS Mode
1	In 1	High	Input	Key on	Storage Mode
2	In 2	High	Input	AC present	-
3	Txspare	-	Comms	-	-
4	CanH	-	Comms	Can	Can
5	5V Out	-	Supply	-	-
6	In 3	High	Input	-	-
7	In 4	High	Input	-	-
8	Rxspare	-	Comms	-	-
9	CanL	-	Comms	Can	Can
10	GND	_	Ground		

Function	Pin	Pin	Function
In 3	6	1	In 1
In 4	7	2	In 2
Rxspare	8	3	Txspare
CanL	9	4	CanH
GND	10	5	5V

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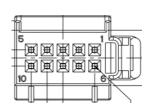
## **Can Bus Devices**

Outlander CMU conncetor			
Supplier	JST		
Part No	08CPT-B-2A		



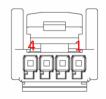
	Outlander Slave		Simp	BMS
Function	Connector	Pin	Connector	Pin
GND	X1	6	X4	2
12V	X1	4	X4	9
CAN L	X1	1	X5	9
CAN H	X1	5	X5	4

VW Slave conncetor		
Supplier	TE	
Part No	1-1670990-1	



	VW Slave		Sim	BMS
Function	Connector	Pin	Connector	Pin
GND	X1	1	X4	2
12V	X1	5	X4	9
CAN H	X1	6	X5	9
CAN L	X1	7	X5	4
Enable	X1	3	X4	9

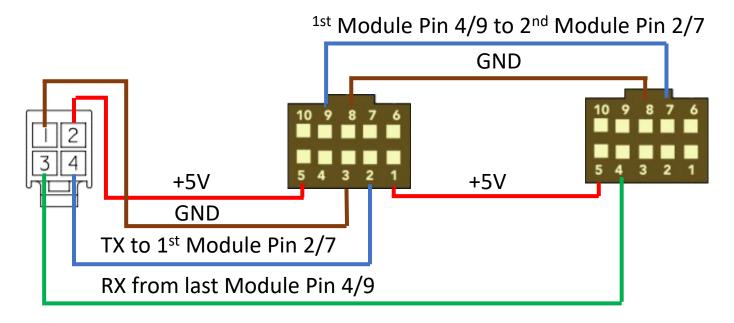
CAB 300		
Supplier	TE	
Part No	1473672-1	



	CAB 300		SimpBMS	
Function	Connector	Pin	Connector	Pin
GND	X1	3	X4	2
12V	X1	4	X4	9
CAN L	X1	1	X5	9
CAN H	X1	2	X5	4

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### **Tesla Slaves**



Connector 1 Tesla BMS Supplier Molex

Family Mini fit 4 way Part no 39-28-x04x

Harness Part 39-01-x04x

Pin	Function			
1	GND			
2	5V			
3	RXbms			
4	TXbms			

