

	Only for use with: Spark Gap x4 rev A			OpenLogicEFI	https://openlogicefi.com/support
Primary Connector					
PIN #	Use	Direction	MCU PIN	Notes	Additional Notes:
1	Ignition Switched Power	Input	N/A	12V+ During Crank and Run	
2	Battery - Ground	N/A	N/A	Primary - Battery - Ground	
3	VVT	Output	D4	1a Max	
4	Boost	Output	D7	1a Max	
5	Injector 1	Output	D8	High-Z Only	
6	Injector 2	Output	D9	High-Z Only	
7	Injector 3	Output	D10	High-Z Only	
8	Injector 4	Output	D11	High-Z Only	
9	IAC Stepper Type Output - B2	Output	NA	0.5a Max	When DRV8825 Installed **
10	IAC Stepper Type Output - B1	Output	NA	0.5a Max	When DRV8825 Installed **
11	IAC Stepper Type Output - A1	Output	NA	0.5a Max	When DRV8825 Installed **
12	IAC Stepper Type Output - A2	Output	NA	0.5a Max	When DRV8825 Installed **
9	Idle1	Output	D5	1a Max	Without DRV8825 installed **
10	Idle2	Output	D6	1a Max	Without DRV8825 installed **
13	VSS	Input	D20	GND switching	
14	VR1-	Input	N/A		
15	Crank/VR1+	Input	Buffer		JP2: Bypass Buffer
16	Battery - Ground	N/A	N/A	Reference Ground	If unused tie with Battery GND
17	CLT	Input	A1	Use with 2 wire sensor	2.49k Bias Resistor
18	IAT	Input	A0	Use with 2 wire sensor	2.49k Bias Resistor
19	TPS	Input	A2	Use with 5v Ref	
20	o2	Input	A8	Use with 5v Ref	
21	Battery - Ground	N/A	N/A	Reference Ground	If unused tie with Battery GND
22	DigAux	Input	D13	Spare GND switched digital input	
23	DigAux	Input	D12	Spare GND switched digital input	
24	Fuel-Pump	Output	D45	1a Max	
25	Fan	Output	D47	1a Max	
26	Tach	Output	D49	30mA Max	
27	Clutch	Input	D51	Ground Switching	
28	Flex	Input	D2	GM Style Sensor	
29	Ignition 4	Output	D50	100mA Max	
30	Ignition 3	Output	D52	100mA Max	
31	Ignition 2	Output	D38	100mA Max	
32	Ignition 1	Output	D40	100mA Max	
33	Cam2/DigAux	Input	D3	Spare GND switched digital input	JP5: Bypass Buffer
34	Cam/VR2-	Input	N/A		
35	Cam/VR2+	Input	Buffer		JP1: Bypass Buffer
36	Battery - Ground	N/A	N/A	Reference Ground	If unused tie with Battery GND
37	5v Ref	Output	N/A	5v Reference for Sensors	
38	Map/ADC3	Input	A5/A11		JP6*
39	ADC1	Input	A9	Spare analog input	
40	ADC2	Input	A10	Spare analog input	

*JP6

*1-2=External Map (On-board Map must be removed)

*2-3=ADC3 (Allows use of ADC3 when on-board map is used)

**ONLY POPULATE DRV8825 WHEN USING 4-WIRE STEPPER IAC

**IDLE1 and/or IDLE2 pins can only be used WITHOUT DRV8825

