



DVCS / DDFI-3 Connections

10262 N. 550 West

Rev -, 7/3/15

DECATUR, IN 46733

J1 GY	I/O	Function	MY08-10 Buell XB9, XB12	Buell 1125R, 1125CR	EBR 1190RS ECM	EBR 1190RX, 1190SX	Analog	WEGO III AFR	Notes
1	Input	Reserved (Front AFR Signal)	AFR1	AFR1	AFR1	AFR1	AN5	AFR 1 (White)	AFR1 data available on CAN and diagnostic links
2	Input	Clutch Switch	CS	CS	CS	CS			
3	Input	Reserved (Cam)						Oil Pressure	
4	Input	Throttle Position Sensor	TPS	TPS	TPS	TPS	AN10		
5	Input	Baro / Airbox Pressure	Baro	Baro	Baro	Baro	AN9		
6	Input	Manifold Air Pressure	MAP	MAP	MAP	MAP	AN11	TPS or MAP (Green)	
7	Input	Intake Air Temperature	IAT				AN3		*Shift Interrupt, 1190RX/RS OE Street
8	Input	Neutral Switch	Neutral	Neutral	Neutral	Neutral			
9	Input	AMC Feedback or Coolant Temp	AMCFB	CT	CT	CT	AN12		
10	Input	Fuel Pressure	FP	FP	FP	FP	AN4		
11	Input	Engine Temperature #2	ET2						
12	Input	Reserved HS digital input						Low Fuel	AN15
13	Input	Vehicle Speed Sensor	VSS	VSS	VSS	VSS			Development: Front Wheel Speed
14	Input	Intake Air Temperature alternate		IAT	IAT	IAT	AN8		
15	Input	Serial Receive (TTL)	RXD	RXD	RXD	RXD			
16	Output	Serial Transmit (TTL)	TXD	TXD	TXD	TXD			
17	Input	Bank Angle Sensor	BAS	BAS	BAS	BAS	AN2		
18	Input	Crank Position +	CKP+	CKP+	CKP+	CKP+			
19		Sensor Ground 3	Sensor Gnd 3	Sensor Gnd 3	Sensor Gnd 3	Sensor Gnd 3			
20	Output	Idle Air Control DLA 2B	IDLA #2B	IDLA #2B	IDLA #2B	IDLA #2B			
21	Output	Idle Air Control DLA 2A	IDLA #2A	IDLA #2A	IDLA #2A	IDLA #2A			
22	Output	Idle Air Control DLA 1B	IDLA #1B	IDLA #1B	IDLA #1B	IDLA #1B			
23	Output	Idle Air Control DLA 1A	IDLA #1A	IDLA #1A	IDLA #1A	IDLA #1A			
24	Output	+5V Sensor Power	Sensor +5V	Sensor +5V	Sensor +5V	Sensor +5V			
25	Output	+5V Sensor Power	Sensor +5V	Sensor +5V	Sensor +5V	Sensor +5V			
26	Input	Crank Position -	CKP-	CKP-	CKP-	CKP-			
27		Sensor Ground 1	Sensor Gnd 1	Sensor Gnd 1	Sensor Gnd 1	Sensor Gnd 1			
28		Sensor Ground 2	Sensor Gnd 2	Sensor Gnd 2	Sensor Gnd 2	Sensor Gnd 2			
29	I/O	Controller Area Network L		CAN L	CAN L	CAN L			
30	I/O	Controller Area Network H		CAN H	CAN H	CAN H			
31	Input	O2 Sensor #1	O21 (MY10)	O21	O21	O21	AN7		AMA: Fork Sensor
32	Input	O2 Sensor #2	O22	O22	O22	O22	AN6		AMA: Clutch Pressure Sensor
33	Input	Reserved (Rear AFR Signal)	AFR2	AFR2	AFR2	AFR2	AN0	AFR 2 (Blue)	AFR2 data available on CAN and diagnostic links
34	Input	Side Stand Interlock (SSI); Shift Interrupt (ShI)	SSI	SSI	ShI*	ShI*	AN1		*Shift Interrupt (EBR 1190RX/SX Performance)
J2 BK									
1	Output	Active Muffler Control / Secondary Injector Front	AMC (EVA) (XB12 only)	Inj1SH	Inj1SH	Inj1SH			
2	Output	Cooling Fan 1	Fan1	Fan1	Fan1	Fan1			
3	Output	Cooling Fan 1	Fan1	Fan1	Fan1	Fan1			
4		Spare #1 (Gnd)							
5		Spare #2 (Gnd)							
6		Spare #3 (Gnd)							
7	Output	Starter Relay	SR	SR	SR	SR			Twin driver shared with J2-23
8		System Ground	Sys Gnd #4	Sys Gnd #4	Sys Gnd #4	Sys Gnd #4			
9	Input	Switched Ignition	SWIG	SWIG	SWIG	SWIG	AN14	+12V (Red)	
10	Output	Active Intake Control	AIC	AIC	AIC	AIC			
11		Unused (Gnd)							
12		Unused (Gnd)							
13		Unused (Gnd)							
14		Unused (Gnd)							
15		Unused (Gnd)							Signal Gnd (Thin Black) Sys Gnd (Heavy Black)
16		System Ground	Sys Gnd #3	Sys Gnd #3	Sys Gnd #3	Sys Gnd #3			
17		Constant Vehicle Battery	VBatt	VBatt	VBatt	VBatt	AN13		
18	Output	Cooling Fan 2	Fan2	Fan2	Fan2	Fan2			
19	Output	Auxiliary Power Relay	APR	APR	APR	APR			Twin driver shared with J2-20
20	Output	Purge Control	Purge	Purge	Purge	Purge			Twin driver shared with J2-19
21	Output	Vehicle Speed Output / Secondary Injector Rear	VSOOut	Inj2SH	Inj2SH	Inj2SH			Twin driver shared with J2-22
22	Output	Tachometer / Stator Control	Tach	Stator				Tach (Brown)	Twin driver shared with J2-21
23	Output	Check Engine Lamp / O2 Heater	CEL	O2Heat	O2Heat	O2Heat			Twin driver shared with J2-7
24		System Ground	Sys Gnd #2	Sys Gnd #2	Sys Gnd #2	Sys Gnd #2			
25	Output	Ignition Coil 1 (front)	Coil1	Coil1	Coil1	Coil1			
26	Output	Cooling Fan 2	Fan2	Fan2	Fan2	Fan2			
27	Output	Fuel Pump	FPump	FPump	FPump	FPump			
28	Output	Fuel Pump	FPump	FPump	FPump	FPump			
29	Output	Injector 1 (front)	INJ1	INJ1	INJ1	INJ1			
30	Output	Injector 2 (rear)	INJ2	INJ2	INJ2	INJ2			
31	Output	Ignition Coil 2 (rear)	Coil2	Coil2	Coil2	Coil2			
32	Output	Ignition Coil 2 (rear)	Coil2	Coil2	Coil2	Coil2			
33		System Ground	Sys Gnd #1	Sys Gnd #1	Sys Gnd #1	Sys Gnd #1			
34	Output	Ignition Coil 1 (front)	Coil1	Coil1	Coil1	Coil1			