

Table 1

OEM ECU PIN	Description	Notes	Speeduino Pin	Description	Notes
17	1-3 Cylinder Injector Signal		1	Injector 1 - Pin 1/2	
35	2-4 Cylinder Injector Signal		2	Injector 2 - Pin 1/2	
			3	Injector 3 - Pin 1/2	
			4	Injector 3 - Pin 1/2	
			5	Injector 4- Pin 1/2	
			6	Injector 4 - Pin 2/2	
33	1-2 Cylinder Spark Signal		7	Ignition 1	
			8	Ignition 4	
3	Sensor Ground	For CLT/IAT/MAP/TPS	9	Ground	
32	Fuel Pump Relay Ground		10	Ground	
9 or 27	PBR/PBL Sensor Signal Input	Could use 1 for MAP and the other for barometric pressure	11	MAP Sensor (OVDC to 5VDC)	
25	Crank (Ns) Ground		12	Ground	
29	Computer Control Voltage	For MAP/TPS	13	5VDC	
			14	Proto Area 1	
			15	Proto Area 2	
			16	Proto Area 3	
			17	Proto Area 4	
			18	Proto Area 5	
28	CLT Input		19	Coolant Temp (CLT)	
10	IAT Input		20	Inlet Air temp (IAT)	
			21	O2 Sensor	New Sensor Input - Will have to look at wiring, no connection in OEM Wiring harness
11	TPS Input		22	TPS Input	
24	Gr/GI Sensor ground	If required	23	Ground	
7 or 8	Cam Sensor Input	If using a cam sensor	24	Cam input/VR2+	
6	Crank (Ns) Input		25	Crank Input/VR1+	
			26	VR2 (not used for Hall sensor)	
			27	VR1 (not used for Hall sensor)	
			28	5VDC	
			29	Idle Stepper Motor 2B	
			30	Idle Stepper Motor 2A	

OEM ECU PIN	Description	Notes	Speeduino Pin	Description	Notes
			31	Idle Stepper Motor 1A	
			32	Idle Stepper Motor 1B	
			33	Ignition 3	
15	3-4 Cylinder Spark Signal		34	Ignition 2	
32	Fuel Pump Relay Ground		35	Fuel PP Relay ground	Formerly "Boost" - Change Arduino to pin 4 in Tuner Studio
			36	Idle 2 (for use with 3 wire Idle Vvs	
			37	PWM Idle	
			38	VVT	
			39	Injector 2 - Pin 2/2	
			40	Injector 1 - Pin 2/2	
1 or 19	Battery Voltage to ECU	Connected at rear of Speeduino - Speeduino master Ground also at this connector			
30	Starter Signal	Don't understand this signal as of yet			
14	FUEL SYSTEM dash indicator light	Follow on project to duplicate the OEM ECU error codes			