

Pin	Name	Function	Required	Direction	Signal Level	Condition
16	B+	power for ecu	YES	input	12	
83	NE+	crank position sensor	YES	input		
89	THA	intake air temp, from MAF	YES	input		
90	VTA1	TPS wiper	YES	input		
101	G22+	cam position sensor	YES	input		
3	FC	signal to run fuel pump	YES	output	12	
49	TACH	tachometer output	YES	output	12	pulse
72	#10	Injector 1	YES	output		
73	#20	Injector 2	YES	output		
74	EVP1	vsv for evap	YES	output	12	active low
91	-NE	cam/crank sensor common	YES	output		
92	#30	Injector 3	YES	output		
93	#40	Injector 4	YES	output		
94	#50	Injector 5	YES	output		
95	#60	Injector 6	YES	output		
102	IGT1	igniter channel 1	YES	output		
103	IGT2	igniter channel 2	YES	output		
104	IGT3	igniter channel 3	YES	output		
106	RSC	idle air control solenoid	YES	output	12	active low
107	RSO	idle air control solenoid	YES	output	12	active low
108	ACIS	vsv for ACIS	YES	output	12	active low
68	E04	engine ground #4	YES			
69	VC	TPS power	YES			
75	E05	engine ground #5	YES			
81	THW	engine coolant temp sensor	YES			
84	E1	ECU ground?	YES			
85	E2	sensor ground	YES			
112	-E01	engine ground #1	YES			
121	E03	engine ground #3	YES			
15	STP	brake light signal input	no	input	12	active high
17	PTNK	vapor pressure sensor	no	input		
18	ELS2	idle up signal input	no	input	12	active high
19	ELS	idle up signal input	no	input	12	active high
76	PS	power steering oil pressure switch	no	input		switch to ground
78	OXR1/AFR+	right bank o2 sensor signal	no	input		
79	OXL1/AFL+	left bank o2 sensor signal	no	input		
80	THG	egr gas temp sensor	no	input		
113	EGLS	egr vacuum sensor	no	input		
116	IGF	igniter confirmation	no	input		
118	KNKR	knock sensor right bank	no	input		
119	KNKL	knock sensor left bank	no	input		
120	CF	cooling fan idle up signal	no	input		
6	W	CEL output	no	output		active low
8	MREL	signal to turn on engine main relay (not required on my MR2)	no	output		
31	HTS	Bank 2 oxygen sensor heater	no	output		
109	EGR	vsv for EGR	no	output	12	active low
1	BATT	constant 12v for ecm memory	no			
2	IGSW	key on signal to trigger MREL (not required on my MR2)	no			
7	STA		no			
9	TPC	to vapor pressure sensor vsv	no			
11	SIL		no			
20	NSW		no			
30	OXS	Bank 2 oxygen sensor signal	no			
33	KSW	key inserted signal for immobilizer	no			
35	ACT	A/C signal	no			
44	SPD	speed signal input	no			
47	A/C	A/C signal	no			
54	CODE	to immobilizer computer	no			
55	RXCK	to immobilizer computer	no			
60	TXCT	to immobilizer computer	no			
66	IMLD	to immobilizer computer	no			
70	HTR/HAFR	right bank o2 sensor heater	no			
71	HTL/HAFL	left bank o2 sensor heater	no			
77	VG	MAF	no			
86	E2G	MAF ground?	no			
87	AFR-(CAL)	afr sensor right bank ground	no			
88	AFL-(CAL)	afr sensor left bank ground	no			
97	TC		no			