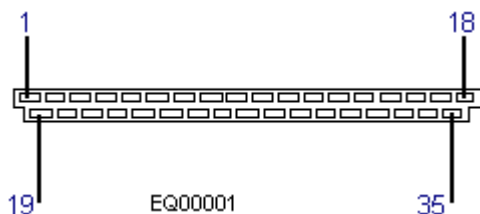


Number of ECM pins: 35



Pin	Connection	Test condition	Volts/Duty Cycle etc
1	coil negative: t1 (speed signal)	ignition on cranking/running	nbv 200 min 2.0 max
2	TPS signal: t2	ignition on/running idle	0.3 to 0.36 4.5 approx
3	TPS supply: t3	wide open throttle ignition on/running	4.3 ± 0.2
4	starter circuit: t50	engine cranking	nbv
5	earth	ignition on/running	0.25 max
6	AFS supply: t6	ignition on/running	4.3 ± 0.2
7	AFS signal: t7	ignition on/running flap closed flap fully open	3.17 approx. 1.6 approx.
8	AFS reference t8	ignition on/running	1.55 ± 0.1
9	AFS return: t9	ignition on/running	0.25 max
10	main relay: t87	ignition on/running	nbv
11	unused		
12	unused		
13	CTS: t1	engine running	20°C 7.0 to 8.0 80°C 1.5 to 2.5
14	injector cyl 7	ignition on cranking cold running cold cranking hot idle 2000 rpm 3000 rpm	nbv 11.0 to 12.0 ms 3.0 to 3.5 ms 4.0 to 4.5+ ms 2.0 to 2.5 ms 2.0 to 2.5 ms 2.0 to 2.5 ms
15	injector cyl 1	ignition on cranking cold running cold cranking hot idle 2000 rpm 3000 rpm	nbv 11.0 to 12.0 ms 3.0 to 3.5 ms 4.0 to 4.5+ ms 2.0 to 2.5 ms 2.0 to 2.5 ms 2.0 to 2.5 ms
16	earth	ignition on/running	0.25 max
17	earth	ignition on/running	0.25 max
18	TPS return: t1	ignition on/running	0.25 max
19	unused		
20	AFS pump contact: t36	ignition on AFS flap closed AFS flap open	zero nbv
21	unused		
22	unused		
23	unused		
24	unused		
25	unused		
26	unused		
27	ATS signal (AFS): t27	engine running	20°C 7.0 to 8.0
28	injector cyl 8: t1	ignition on cranking cold	nbv 11.0 to 12.0 ms

	running cold	3.0 to 3.5 ms
	cranking hot	4.0 to 4.5+ ms
	idle	2.0 to 2.5 ms
	2000 rpm	2.0 to 2.5 ms
	3000 rpm	2.0 to 2.5 ms
29	injector cyl 6: t1	nbv
	ignition on	nbv
	cranking cold	11.0 to 12.0 ms
	running cold	3.0 to 3.5 ms
	cranking hot	4.0 to 4.5+ ms
	idle	2.0 to 2.5 ms
	2000 rpm	2.0 to 2.5 ms
	3000 rpm	2.0 to 2.5 ms
30	injector cyl 4: t1	nbv
	ignition on	nbv
	cranking cold	11.0 to 12.0 ms
	running cold	3.0 to 3.5 ms
	cranking hot	4.0 to 4.5+ ms
	idle	2.0 to 2.5 ms
	2000 rpm	2.0 to 2.5 ms
	3000 rpm	2.0 to 2.5 ms
31	injector cyl 2: t1	nbv
	ignition on	nbv
	cranking cold	11.0 to 12.0 ms
	running cold	3.0 to 3.5 ms
	cranking hot	4.0 to 4.5+ ms
	idle	2.0 to 2.5 ms
	2000 rpm	2.0 to 2.5 ms
	3000 rpm	2.0 to 2.5 ms
32	injector cyl 5: t1	nbv
	ignition on	nbv
	cranking cold	11.0 to 12.0 ms
	running cold	3.0 to 3.5 ms
	cranking hot	4.0 to 4.5+ ms
	idle	2.0 to 2.5 ms
	2000 rpm	2.0 to 2.5 ms
	3000 rpm	2.0 to 2.5 ms
33	injector cyl 3: t1	nbv
	ignition on	nbv
	cranking cold	11.0 to 12.0 ms
	running cold	3.0 to 3.5 ms
	cranking hot	4.0 to 4.5+ ms
	idle	2.0 to 2.5 ms
	2000 rpm	2.0 to 2.5 ms
	3000 rpm	2.0 to 2.5 ms
34	AAV: t1 return	engine running
35	earth	ignition on/running

< END >