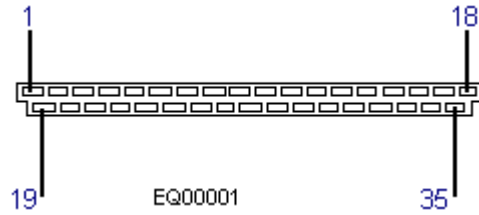


Pin Tables Copyright Equiptech

Number of ECM pins: 35



Pin	Connection	Test condition	Volts/Duty Cycle etc
1	coil negative: t1 (speed signal)	ignition on cranking/running dynamic volt drop	nbv 200 min 2.0 max
2	TS idle contact: t2	ignition on/running throttle closed throttle open	nbv zero
3	TS full load contact : t3	ignition on/running throttle closed/part open throttle fully open	zero nbv nbv
4	starter circuit: t50	engine cranking	nbv
5	earth	ignition on/running	0.25 max
6	AFS return: t9	ignition on/running	0.25 max
7	AFS signal: t7	ignition on/running idle speed snap acceleration	2.60 approx. 8.0 approx.
8	AFS reference t8	ignition on/running	7.0v approx.
9	AFS supply: t6	ignition on/running	nbv
10	main relay: t88a	ignition on/running	nbv
11	trip computer (when used)		
12	unused		
13	CTS: t1	engine running	20°C 7.0 to 8.0 80°C 1.5 to 2.5
14	injector cyl 4	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	TS supply: t1	ignition on/running	nbv
19	unused		
20	AFS pump contact: t36	ignition on/running 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

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80°C 8.0 to 10.0, 2.76

28	relay earth: t85	ignition on/running	0.25 max
29	main relay output: t88e	ignition on/running	nbv
30	injector cyl 5: t1	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 6: t1	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 3: t1	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 2: t1	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	0.25 max
35	earth	ignition on/running	0.25 max

< END >