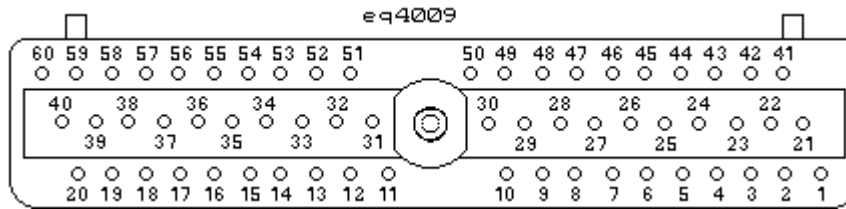


Pin Tables Copyright Equiptech

Number of ECM pins: 60



Pin	Connection	Test condition	Volts/Duty Cycle etc
1	KAM supply battery: t30	ignition off/on	nbv
3	service cable (idle speed)	open circuit closed circuit	5.0 ± 0.1 0.25 max
4	VSS signal : t3	vehicle moving	switching 0 to nbv
7	CTS signal : t2	ignition on/running	20°C 3.00 to 3.20 80°C 0.60 to 0.90
16	earth	ignition on/running	0.25 max
17	SD connector : t3	ignition on/running	12 volts
20	earth	ignition on/running	0.25 max
21	ISCV driver : t1	ignition on engine running	nbv variable
		cold:	5.0 to 11.0
		hot: (no load)	8.0 to 14.0
		hot: (load)	5.0 to 11.0
		ISCV: (almost closed)	9.0 to 12.0
		ISCV: (almost fully open)	1.0 to 4.0
22	pump relay driver : t85 (via inertia sw)	ignition on cranking/running	nbv 1.25 max
23	service cable, octane adjuster	open circuit closed circuit	5.0 ± 0.1 0.25 max
24	service cable, octane adjuster	open circuit closed circuit	5.0 ± 0.1 0.25 max
25	ATS : t2	ignition on/running	20°C 3.00 to 3.20 40°C 2.00 to 2.20
26	TPS,MAP,CO pot supply : t2	ignition on/running	5.0 ± 0.1
27	CO pot signal : t3	ignition on upper limit lower limit	4.8 0.6
28	EDIS : t2	cranking/running	switching
36	EDIS SAW signal : t3	cranking/running	switching 0 to nbv
37	supply from main relay : t87	ignition on/running	nbv
40	earth	ignition on/running	0.25 max
45	MAP signal: t3	ignition on/running	2.50 (average)
46	sensor signal return	ignition on/running	0.25 max
47	TPS signal : t3	ignition on/running throttle closed throttle fully open	0.50 to 0.70 4.48+
48	SD connector : t2	ignition on/running	5.0 ± 0.1
56	EDIS PIP signal: t1	cranking/running	switching 0 to nbv
57	supply from main relay : t87	ignition on/running	nbv
58	injectors 1&2 signal : t1	ignition on cranking cold running cold cranking hot running hot 2000 rpm 3000 rpm snap acceleration deceleration	nbv 11.0 to 12.0 ms 3.0 to 3.5 ms 4.0 to 4.5+ ms 2.4 to 2.6 ms 2.4 to 2.6 ms 2.2 to 2.5 ms 6.0+ ms zero

Pin Tables Copyright Equiptech

59 injectors 3&4 signal : 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
running hot	2.4 to 2.6 ms
2000 rpm	2.4 to 2.6 ms
3000 rpm	2.2 to 2.5 ms
snap acceleration	6.0+ ms
deceleration	zero
ignition on/running	0.25 max

60 earth

< END >