



Pin	Connection	Test condition	Volts/Duty Cycle e
1	KAM supply via battery: t30	ignition on/off	nbv
3	idle speed adjustment : t2	open circuit	5.0 ± 0.1
		closed circuit	0.25 max
4	VSS: t3	vehicle moving	switching 0 to nbv
5	ignition switch: t15	ignition on/running	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	diagnostic socket : t3	ignition on/running	12 volts
18	stepper motor idle switch: t2	idle switch closed	0.25 max
		idle switch open	5.0 ± 0.1
20	earth	ignition on	0.25 max
21	stepper motor: t3	actuated	9.0 min
22	pump relay driver: t85	ignition on	nbv
		cranking/running	1.25 max
23	octane adjustment : t23	open circuit	5.0 ± 0.1
		closed circuit	0.25 max
24	octane adjustment : t24	open circuit	5.0 ± 0.1
		closed circuit	0.25 max
25	ATS signal: t2	ignition on/running	20°C 3.00 to 3.20
			40°C 2.00 to 2.20
26	MAP reference voltage: t2	ignition on/running	5.0 ± 0.1
26	TPS reference voltage: t2	ignition on/running	5.0 ± 0.1
29	OS signal: t3	engine running	200 to 1000 mv
		throttle fully open	1.0v constant
		fuel cut-off	0 volt constant
		switching frequency	1 sec intervals (approx)
35	CFSV: t1	ignition on	nbv
		engine running, active	switching 0 to nbv
36	SPOUT signal: TFI: t2	engine cranking/running	switching 4.0 to 7.0
37	FI main relay: t87	ignition on/running	nbv
40	earth	ignition on/running	0.25 max
41	stepper motor: t4	actuated	9.0
45	MAP signal: t3	ignition on/running	2.50 (average)
46	sensor return CTS: t1, TPS: t1		
	ATS: t1, MAP: t1	ignition on/running	0.25 max
47	TPS signal: t3	ignition on/running	
		throttle closed	0.24 to 1.08
		throttle fully open	4.77
48	diagnostic socket: t2	ignition on/running	5.0 ± 0.1
49	OS return: t4	ignition on/running	0.25 max
56	TFI PIP signal: t1	engine cranking/running	switching 4.0 to 7.0
57	FI main relay: t87	ignition on/running	nbv
58	injector/BR	ignition on	nbv
		running cold	2.0+ ms
		cranking hot	2.0+ ms
		running hot	2.0 ms approx
		2000 rpm	2.0 to 2.5 ms
		3000 rpm	2.0 to 2.5 ms
		snap acceleration	5.0 to 8.0 ms

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59	injector/BR	deceleration	zero
		ignition on	nbv
		running cold	2.0+ ms
		cranking hot	2.0+ ms
		running hot	2.0 ms approx
		2000 rpm	2.0 to 2.5 ms
		3000 rpm	2.0 to 2.5 ms
60	earth	snap acceleration	5.0 to 8.0 ms
		deceleration	zero
		ignition on/running	zero

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