



Pin	Connection	Test condition	Volts/Duty Cycle etc
1	KAM supply battery: t30	ignition on/off	nbv
3	idle speed adjustment : t2	open circuit closed circuit	5.0 ± 0.1 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	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 idle switch open	0.25 max 5.0 ± 0.1
20	earth	ignition on/running	0.25 max
21	stepper motor: t3	actuated	9.0 min
22	pump relay driver: t85	ignition on cranking/running	nbv 1.25 max
23	octane adjustment : t23	open circuit closed circuit	5.0 ± 0.1 0.25 max
24	octane adjustment : t24	open circuit closed circuit	5.0 ± 0.1 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
28	EDIS: t2	cranking/running	switching 0 to nbv
29	OS signal: t3	engine running throttle fully-open fuel cut-off switching frequency	200 to 1000 mv 1.0 volt constant 0 volt constant 1 sec intervals (approx)
30	park neutral switch (auto only)		
35	CFSV driver: t1	ignition on, active engine running	nbv switching 0 to nbv
36	EDIS SAW signal: t3	cranking/running	switching 0 to nbv
37	main relay: t87	ignition on/running	nbv
40	earth	ignition on/running	0.25 max
41	stepper motor: t4	actuated	9.0 min
45	MAP signal: t3	ignition on/running	2.50 (average)
46	sensor return CTS: t1, TPS: t1		
46	MAP: t1, ATS: t1	ignition on/running	0.25 max
47	TPS signal: t3	ignition on/running throttle closed throttle fully open	0.24 to 1.08 4.77
48	diagnostic socket: t2	ignition on/running	5.0 ± 0.1
49	OS return: t4	engine running	0.25 max
56	EDIS PIP signal: t1	cranking/running	switching 0 to nbv
57	main relay: t87	ignition on/running	nbv
58	injector/BR	ignition on running cold cranking hot running hot 2000 rpm	nbv 2.0+ ms 2.0+ ms 2.0 ms approx 2.0 to 2.5 ms

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	3000 rpm	2.0 to 2.5 ms
	snap acceleration	5.0 to 8.0 ms
	deceleration	zero
59	injector/BR	nbv
	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
	deceleration	zero
60	earth	0.25 max
	ignition on/running	0.25 max

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