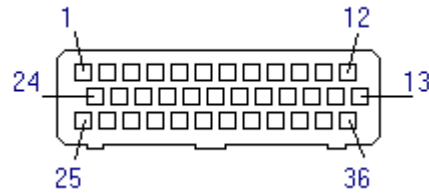


Number of ECM pins: 36



Pin	Connection	Test condition	Volts/Duty Cycle etc
1	injector pulse, cyl 4: t1	ignition on cranking cold running cold cranking hot running hot snap acceleration deceleration	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 6.0 ms zero
2	stepper motor phase 4	idle speed	0 to nbv
3	stepper motor phase 3	idle speed	0 to nbv
4	main relay driver: t6/3	ignition off ignition on/running	nbv 1.25 max
5	unused		
6	unused		
7	oxygen sensor signal: t3	engine running Throttle fully open fuel cut-off switching frequency	200 to 1000 mv 1.0v constant 0 volt constant 1 sec intervals (approx)
8	TPS signal: t3	ignition on/running throttle closed throttle fully open	0.20 to 0.60 4.25 to 4.50
9	TPS supply: t2	ignition on/running	5.0 ± 0.1
10	diagnostics output : t10		
11	ignition switch supply: t15	ignition on/running	nbv
12	unused		
13	unused		
14	unused		
15	diagnostics input : t15	ignition on/running	5.0 ± 0.1
16	ATS: t2	ignition on/running	20°C 3.00 78°C 0.78
17	unused		
18	oxygen sensor t :4	ignition on/running	0.25 max
19	unused		
20	pump relay driver: t6/1	ignition off cranking/running	nbv 1.25 max
21	CFSV: t1	ignition on engine running, active	nbv switching 0 to nbv
22	stepper motor phase 1	idle speed	0 to nbv
23	injector pulse, cyl 2: t:1	ignition on cranking cold running cold cranking hot running hot snap acceleration deceleration	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 6.0 ms zero
24	injector pulse, cyl 1: t1	ignition on cranking cold running cold cranking hot running hot snap acceleration deceleration	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 6.0 ms zero
25	ignition coil negative: t1	ignition on	nbv

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		cranking/running	200 min
		dynamic volt drop	2.0 max
26	injector pulse, 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
		running hot	2.0 to 2.5 ms
		snap acceleration	6.0 ms
		deceleration	zero
27	stepper motor phase 2	idle speed	0 to nbv
28	main relay supply: t8/8	ignition on/running	nbv
29	ECM earth	ignition on/running	0.25 max
30	sensor return	ignition on/running	0.25 max
31	CAS +: t2	cranking:	AC 2.0v+ (peak to peak)
		idle:	AC 11.0v+ (peak to peak)
		cruise:	AC 14.0v+ (peak to peak)
32	CAS unused: t1	ignition on/running	0.25 max
33	CTS: t2	ignition on/running	20°C 3.00
			78°C 0.78
34	unused		
35	unused		
36	OS relay driver: t8/2	ignition on	nbv
		engine running	1.25 max

< END >