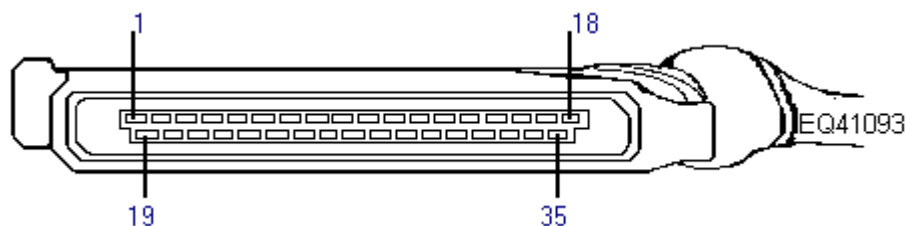


Number of ECM pins: 35



Pin	Connection	Test condition	Volts/Duty Cycle etc
1	coil negative: t1	ignition on cranking/running dynamic volt drop	nbv 200 min 2.0 max
2	TS idle contact : t2	ignition on/running throttle closed throttle part/fully open	zero 5.0 ± 0.1
3	TS full-load contact : t3	ignition on/running throttle closed/part open throttle fully open	5.0 ± 0.1 zero
4	starter motor : t50	cranking	nbv
5	earth	ignition on/running	0.25 max
6	AFS return: t4	ignition on/running	0.25 max
7	AFS output : t2	ignition on Idle 2000 rpm 3000 rpm snap accelerate	0.20 to 0.60 0.50 to 0.60 0.75 to 1.00 1.20 to 2.50 3.00 to 4.50
8	RPM sensor signal : t2	cranking: Idle: cruise:	AC 2.5v+ (peak to peak) AC 11.0v+ (peak to peak) AC 14.0v+ (peak to peak)
9	AFS supply: t3	ignition on/running	5.0 ± 0.1
10	earth (auto only)	ignition on/running	0.25 max
11	fuel consumption gauge		
12	unused		
13	CTS signal : t2	ignition on/running	20°C 3.00 to 3.50 80°C 1.00 to 1.30
14	injectors 1 to 3 (pulse): t1	ignition on cranking cold running cold cranking warm running warm snap acceleration	nbv 4.0+ ms 4.0 ms 2.5+ ms 2.5 ms 6.0+ ms
15	injectors 4 to 6 (pulse): t1	ignition on cranking cold running cold cranking warm running warm snap acceleration	nbv 4.0+ ms 4.0 ms 2.5+ ms 2.5 6.0+ ms
16	earth	ignition on/running	0.25 max
17	earth	ignition on/running	0.25 max
18	unused		
19	earth	ignition on/running	0.25 max
20	pump relay driver: t85	ignition on cranking/running	nbv 1.25 max
21	tachometer		
22	ATS: (AFS: t5)	ignition on/running	20°C 2.00 to 3.00
23	RPM sensor shield : t3	cranking/running	0.25 max
24	unused		
25	TDC sensor return : t1	cranking/running	0.25 max
26	TDC sensor signal : t2	cranking:	AC 4.0v+ (peak to peak)

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	Idle:	AC 11.0v+ (peak to peak)
	cruise:	AC 14.0v+ (peak to peak)
	cranking/running	0.25 max
27	RPM sensor return : t1	
28	A/C	
29	A/C	
30	unused	
31	unused	
32	unused	
33	ISCV pulse : t5	ignition on nbv engine running duty cycle 69%
34	ISCV pulse : t3	ignition on nbv engine running duty cycle 31%
35	supply from main relay: t87	ignition on/running nbv

< END >