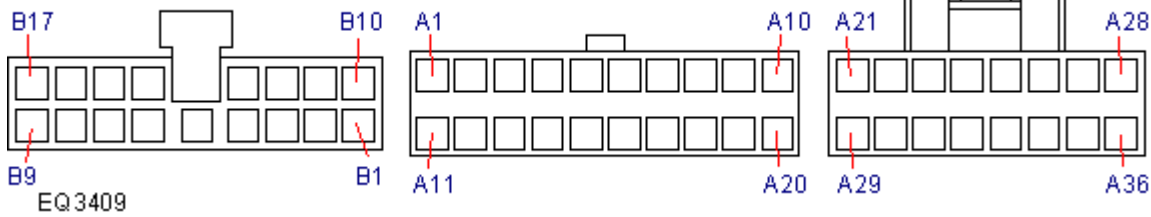


Pin Tables Copyright Equiptech

Number of ECM pins: 53



Pin	Connection	Test condition	Volts/Duty Cycle etc
A1	battery supply (fused) : t30	ignition off/running	nbv
A2	A/C clutch relay driver	ignition off	zero
A3	unused		
A4	P/N switch (AT models)		
A5	unused		
A6	P/N switch (AT models)		
A7	cranking supply (fused)		
	ignition switch : t50	cranking	nbv
A8	ignition output to amplifier : t1	cranking/running	switching 0 to nbv
A9	ignition output to amplifier : t2 (connected to ECM : tA8)	cranking/running	switching 0 to nbv
A10	unused		
A11	fast idle solenoid driver : t1	ignition on engine running, rpm below 1800, CTS below -10° C	nbv 0.25 max
A12	unused		
A13	SD warning lamp : t1	ignition on/running faults present no faults present	1.25 max nbv
A14	A/C pressure switch		
A15	RPM sensor signal : t2	cranking: Idle: cruise:	AC 2.0v+ (peak to peak) AC 11.0v+ (peak to peak) AC 14.0v+ (peak to peak)
A16	RPM sensor return : t1	engine running	0.25 max
A17	alternator	engine running	nbv
A18	VSS signal : t2	ignition on vehicle moving	nbv to zero switching 0 to nbv
A19	unused		
A20	CO pot signal : t3	ignition on/running	0 to 5.0
A21	CID sensor signal : t2	cranking: Idle: cruise:	AC 2.0v+ (peak to peak) AC 11.0v+ (peak to peak) AC 14.0v+ (peak to peak)
A22	TDC sensor signal : t2	cranking: Idle: cruise:	AC 2.0v+ (peak to peak) AC 11.0v+ (peak to peak) AC 14.0v+ (peak to peak)
A23	ATS signal : t2	ignition on/running	20 to 40°C 1.0 to 3.0
A24	TPS signal : t3	ignition on/running closed fully open	0.5 4.50 approx
A25	APS sensor signal : t3	ignition on/running sea level	3.0
A26	MAP sensor signal : t3	WOT/ignition on Idle speed	2.75 to 2.95 0.6 to 0.8 appr
A27	sensor supply APS, MAP, TPS	ignition on/running	5.0 ± 0.1
A28	sensor supply APS, MAP, TPS	ignition on/running	5.0 ± 0.1
A29	CID return : t1	cranking/running	0.25 max
A30	TDC sensor return : t1	ignition on/running	0.25 max
A31	CTS signal : t2	ignition on/running	0 to 20°C 2.0 to 3.5 approx. 80 to 100°C 0.5 to 0.8 approx.
A32	unused		

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A33	unused		
A34	sensor return ATS : t1, CTS : t1, TPS : t1, APS sensor : t1	ignition on/running	0.25 max
A35	MAP sensor return : t1	ignition on/running	0.25 max
A36	SD connector: t2		
B1	earth	ignition on/running	0.25 max
B2	earth (connected to ECM : tB1)	ignition on/running	0.25 max
B3	pump relay driver : t8	ignition on cranking/running	nbv 1.25 max
B4	pump relay driver : t8 (connected to ECM : tB3)	ignition on cranking/running	nbv 1.25 max
B5	resonator control solenoid : t1	ignition on engine running above 3000 rpm	nbv 0.25 max
B6	A/T lock up solenoid		
B7	unused		
B8	earth	ignition on/running	0.25 max
B9	earth (connected to ECM : tB8)	ignition on/running	0.25 max
B10	ignition supply (fused) : t15	ignition on/running	nbv
B11	nbv supply from relay : t3	ignition on	nbv
B12	nbv supply from relay : t3 (connected to ECM : tB11)	ignition on	nbv
B13	ISCV pulse : t1	ignition on engine running	nbv variable (switching)
B14	injector 4 pulse : t1	ignition on cranking cold running cold cranking warm running warm snap acceleration	nbv 3.0 to 4.0 ms 3.0 to 4.0 ms 2.1 to 2.6 ms 2.1 to 2.6 ms 8.0+ ms
B15	injector 3 pulse : t1	ignition on cranking cold running cold cranking warm running warm snap acceleration	nbv 3.0 to 4.0 ms 3.0 to 4.0 ms 2.1 to 2.6 ms 2.1 to 2.6 ms 8.0+ ms
B16	injector 2 pulse : t1	ignition on cranking cold running cold cranking warm running warm snap acceleration	nbv 3.0 to 4.0 ms 3.0 to 4.0 ms 2.1 to 2.6 ms 2.1 to 2.6 ms 8.0+ ms
B17	injector 1 pulse : t1	ignition on cranking cold running warm cranking warm running warm snap acceleration	nbv 3.0 to 4.0 ms 3.0 to 4.0 ms 2.1 to 2.6 ms 2.1 to 2.6 ms 8.0+ ms

< END >