



| 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 | earth | ignition on/running | 0.25 max |
| 3 | relay driver: t85b | ignition on cranking/running | nbv 1.25 max |
| 4 | ISCV: t1 | ignition on engine running (variable) engine running (variable) | nbv |
| | | Cold: Hot: | Duty cycle 6.0 to 6.5 56 to 58% 7.0 to 9.0 40 to 44% |
| 5 | CFSV: t1 | ignition on snap accelerate | nbv zero |
| 6 | 4 WD unit: t2/AT control unit | Ignition on | 0.20 to 0.30 |
| 7 | AFS signal: t2 | Idle 2000 rpm 3000 rpm Snap accelerate Fully open (off load) | 0.50 to 1.50 1.75 to 2.25 2.00 to 2.50 3.00 to 4.50 4.50+ |
| 8 | HES signal: t2 | engine running | 2.50 (average) |
| 9 | VSS | vehicle moving | switching 0 to nbv |
| 10 | OS return | ignition on/running | 0.25 max |
| 11 | KS signal: t2 | engine running, KS active | 1.0 approx |
| 12 | AFS supply: t3, TPS supply: t2 | ignition on/running | 5.0 ± 0.1 |
| 13 | diagnostic socket: tB | | |
| 14 | earth | ignition on/running | 0.25 max |
| 15 | unused | | |
| 16 | injector pulse, bank number 1 | ignition on cranking cold running cold cranking hot running hot snap acceleration | nbv 11.0 to 12.0 ms 3.0 to 3.5 ms 4.0 to 4.5+ ms 2.0 to 2.8 ms 6.0+ ms |
| 17 | injector pulse, bank number 2 | ignition on cranking cold running cold cranking hot running hot snap acceleration | nbv 11.0 to 12.0 ms 3.0 to 3.5 ms 4.0 to 4.5+ ms 2.0 to 2.8 ms 6.0+ ms |
| 18 | battery positive: t30 | ignition off/on | nbv |
| 19 | main ECM earth | ignition on/running | 0.25 max |
| 20 | coding earth (non-cat) (cat) | ignition on/running | 0.25 max |
| 21 | coding earth (AT) (MT) | ignition on/running ignition on/running | 5.0 ± 0.1 0.25 max |
| 22 | fascia warning lamp | ignition on/running lamp off, no fault : lamp on, fault present : | nbv 0.25 max |
| 23 | A/C cut-off solenoid | | |

| | | Pin Tables Copyright Equiptech |
|----|--|--|
| 24 | earth | ignition on/running 0.25 max |
| 25 | unused | |
| 26 | sensor return : AFS, ATS, CO, CTS, TPS, OA | ignition on/running 0.25 max |
| 27 | ignition switch: t15 | ignition on/running nbv |
| 28 | OS signal : t3 | ignition Key On 0.4 to 0.5 engine running 200 to 1000 mv throttle fully-open 1.0 v constant fuel cut-off 0 v constant switching frequency 1 sec intervals (approx) |
| 29 | KS signal: t2 | engine running, KS active 1.0 approx |
| 30 | KS return: t1 | engine running, KS active 0.25 max |
| 31 | HES supply: t1 | ignition on/running nbv |
| 32 | on board computer: t24 | |
| 33 | inlet manifold solenoid | idle speed nbv 4000 rpm+ 0.25 max (AT : engage parking brake, AT selector in park) |
| 34 | AT control unit: t25 | engine running |
| 35 | unused | |
| 36 | relay driver: t85 | ignition off nbv ignition on 1.25 max ignition on/running nbv |
| 37 | nbv supply from relay: t87 | |
| 38 | unused | |
| 39 | unused | |
| 40 | A/C cut-off switch | |
| 41 | A/C pressure switch | |
| 42 | ignition switch: t:50 (AT) | engine cranking nbv |
| 42 | coding earth (MT) | ignition on/running 0.25 max |
| 43 | CO - non-Cat (AFS: t1) | ignition on/running 2.5 ± 0.5 |
| 44 | ATS (AFS: t5) | ignition on/running 20°C 3.50 to 3.75 |
| 45 | CTS: t2 | ignition on/running 20°C 3.00 to 3.75 80°C 1.00 to 1.30 |
| 46 | octane adjuster: tA | ignition on/running 0.9 95 octane (brown) 1.6 98 octane (brown) |
| 47 | earth (4x4) | ignition on/running 0.25 max |
| 48 | CAS return: t2 | engine running 0.25 max |
| 49 | CAS signal: t1 | idle speed 8.0 volts AC, peak to peak |
| 50 | unused | |
| 51 | AT control unit: t13 | |
| 52 | unused | |
| 53 | TPS signal : t3 | ignition on/running 0.35 to 0.87 Closed 4.25 + Fully open |
| 54 | oil temperature switch (transmission) | ignition on, inactive nbv idle speed, inactive nbv all vehicles, active 0.25 max |
| 55 | diagnostic socket : tG | |

< END >