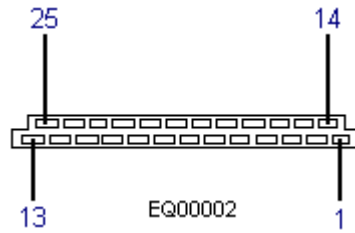


# Pin Tables Copyright Equiptech

Number of ECM pins: 25



| Pin | Connection                   | Test condition                                                                                                                                     | Volts/Duty Cycle etc                                                               |
|-----|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 1   | ignition system control unit | cranking/running                                                                                                                                   | switching 0 to nbv                                                                 |
| 2   | CTS signal                   | ignition on/running                                                                                                                                | 20°C 2.70<br>80°C 0.75                                                             |
| 3   | TPS idle contact : t1        | Ignition on<br>throttle closed<br>throttle part/fully open                                                                                         | zero<br>5.0 ± 0.1                                                                  |
| 4   | unused                       |                                                                                                                                                    |                                                                                    |
| 5   | earth                        | ignition on/running                                                                                                                                | 0.25 max                                                                           |
| 6   | AFS return: t2               | ignition on/running                                                                                                                                | 0.25 max                                                                           |
| 7   | AFS signal: t3               | ignition on<br>idle<br>3000 rpm<br>snap open throttle                                                                                              | 0.20 to 0.70<br>1.5<br>2.4<br>4.0+                                                 |
| 8   | AFS hot wire burn-off: t4    | coolant above 65° C,<br>rpm above 2500,<br>switch off engine                                                                                       | hot wire glows for 1.0 second                                                      |
| 9   | supply from main relay : t5  | ignition on/running                                                                                                                                | nbv                                                                                |
| 10  | ISCV signal: t3              | ignition on<br>idle speed                                                                                                                          | nbv<br>duty cycle 30 to 40%                                                        |
| 11  | earth                        | ignition on/running                                                                                                                                |                                                                                    |
| 12  | TPS full-load contact: t3    | Ignition on<br>throttle closed/part open<br>throttle fully open                                                                                    | 5.0 ± 0.1<br>zero                                                                  |
| 13  | injectors                    | ignition on/running<br>cranking cold<br>running cold<br>cranking warm<br>running warm<br>2000 rpm<br>3000 rpm<br>snap acceleration<br>deceleration | nbv<br>3.8 ms<br>3.8 ms<br>2.4 ms<br>2.4 ms<br>2.2 ms<br>2.1 ms<br>6.0+ ms<br>zero |
| 14  | CO pot (AFS: t6)             | ignition on/running                                                                                                                                | 0 to 4.0v                                                                          |
| 15  | unused                       |                                                                                                                                                    |                                                                                    |
| 16  | unused                       |                                                                                                                                                    |                                                                                    |
| 17  | pump relay driver: t1        | ignition on<br>cranking/running                                                                                                                    | nbv<br>1.25 max                                                                    |
| 18  | ignition relay: t5           | ignition on/running                                                                                                                                | nbv                                                                                |
| 19  | unused                       |                                                                                                                                                    |                                                                                    |
| 20  | OS signal (some models)      | engine running<br>throttle fully open<br>fuel cut off<br>switching frequency                                                                       | 200 to 1000 mv<br>1.0v constant<br>0 volts constant<br>1 sec intervals (approx)    |
| 21  | main relay driver: t85       | ignition off<br>ignition on/running                                                                                                                | nbv<br>1.25 max                                                                    |
| 22  | Octane adjuster              |                                                                                                                                                    |                                                                                    |
| 23  | ISCV signal: t6              | ignition on<br>idle speed                                                                                                                          | nbv<br>duty cycle 30 to 40%                                                        |
| 24  | ignition control unit        |                                                                                                                                                    |                                                                                    |
| 25  | earth                        | ignition on/running                                                                                                                                | 0.25 max                                                                           |

