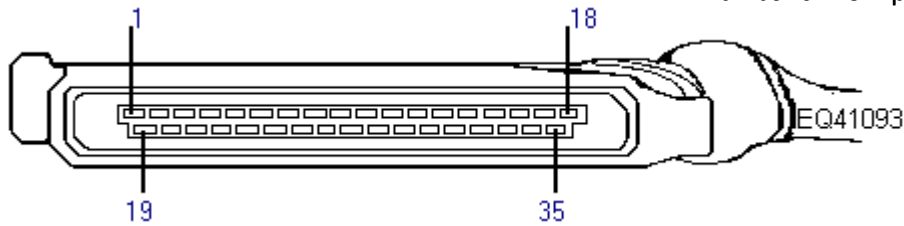


Number of ECM pins: 35



| Pin | Connection                                               | Test condition                                                                                | Volts/Duty Cycle etc                                                           |
|-----|----------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| 1   | coil one amplifier control: t2                           | cranking/running                                                                              | switching 0 to nbv                                                             |
| 2   | coil two amplifier control: t7                           | cranking/running                                                                              | switching 0 to nbv                                                             |
| 3   | TPS signal contact : t3                                  | ignition on/running<br>closed<br>fully open                                                   | 0.5 to 0.6v<br>4.8v approx                                                     |
| 4   | diagnostic socket : t2                                   | Ignition on/running<br>no major faults<br>major faults                                        | nbv<br>0.25max                                                                 |
| 5   | earth                                                    | ignition on/running                                                                           | 0.25 max                                                                       |
| 6   | sensor return ATS: t1, CTS: t1,<br>CO pot : t1, TPS : t2 | ignition on/running                                                                           | 0.25 max                                                                       |
| 7   | unused                                                   |                                                                                               |                                                                                |
| 8   | OS return                                                | engine running                                                                                | 0.25 max                                                                       |
| 9   | sensor supply CO pot: t3, TPS: t1                        | ignition on/running                                                                           | 5.0 ± 0.1                                                                      |
| 10  | earth                                                    | ignition on/running                                                                           | 0.25 max                                                                       |
| 11  | unused                                                   |                                                                                               |                                                                                |
| 12  | diagnostic socket : t1                                   |                                                                                               |                                                                                |
| 13  | CTS signal : t2                                          | ignition on/running                                                                           | 20° 3.00 to 3.50<br>80° 1.00 to 1.30                                           |
| 14  | injectors (pulse): t1                                    | ignition on<br>cranking cold<br>running cold<br>cranking warm<br>running warm<br>acceleration | nbv<br>3.5+ ms<br>3.5 ms<br>2.4+ ms<br>2.4 to 2.6 ms<br>6.0+ ms                |
| 15  | unused                                                   |                                                                                               |                                                                                |
| 16  | earth                                                    | ignition on/running                                                                           | 0.25 max                                                                       |
| 17  | fascia warning lamp: t2                                  | Ignition on/running<br>no major faults<br>major faults                                        | nbv<br>0.25 max                                                                |
| 18  | battery supply : t30                                     | ignition on/off                                                                               | nbv                                                                            |
| 19  | unused                                                   |                                                                                               |                                                                                |
| 20  | pump relay driver : t2                                   | ignition on<br>cranking/running                                                               | nbv<br>1.25 max                                                                |
| 21  | tachometer                                               |                                                                                               |                                                                                |
| 22  | ATS signal                                               | ignition on/running                                                                           | 20° 3.50 to 3.75                                                               |
| 23  | CAS return : t1                                          | engine running                                                                                | 0.25 max                                                                       |
| 24  | CO pot signal : t2                                       | idle, when CO is correct                                                                      | 0.5 to 0.6                                                                     |
| 24  | OS signal : t3                                           | ignition Key On<br>engine running<br>throttle fully-open<br>fuel cut-off                      | 0.4 to 0.5<br>200 to 1000 mv<br>1.0 v constant<br>0 v constant                 |
| 25  | CAS signal : t2                                          | cranking:<br>Idle:<br>cruise:                                                                 | AC 2.0v+ (peak to peak)<br>AC 11.0v+ (peak to peak)<br>AC 14.0+ (peak to peak) |
| 26  | unused                                                   |                                                                                               |                                                                                |
| 27  | earth                                                    | ignition on/running                                                                           | 0.25 max                                                                       |
| 28  | unused                                                   |                                                                                               |                                                                                |
| 29  | A/C switch                                               |                                                                                               |                                                                                |
| 30  | unused                                                   |                                                                                               |                                                                                |

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|    |                             |                               |                             |
|----|-----------------------------|-------------------------------|-----------------------------|
| 31 | unused                      |                               |                             |
| 32 | A/C compressor supply relay |                               |                             |
| 33 | ISCV signal: t5             | ignition on<br>engine running | nbv<br>duty cycle 30 to 40% |
| 34 | ISCV signal: t3             | ignition on<br>engine running | nbv<br>duty cycle 30 to 40% |
| 35 | supply from main relay : t5 | ignition on/running           | nbv                         |

< END >