## 5. Control Module I/O Signal



B2M0219F

| Content |  | Connector No. | Terminal No: | Signal (V) |  | Note |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Ignition SW |  | Engine ON (Idling) |  |
|  |  | ON (Engine OFF) |  |  |  |
| Crankshaft position sensor | Signal ( + ) |  | B136 | $\cdot 1$ | 0 | $\pm 6$ | Sensor vulpul wavetorm |
|  | Signal (-) |  | B136 | 9 | 0 | 0 | - |
|  | Shield | B136 | 13 | 0 | 0 | - |
| Camshaft position sensor | Signal (+) | B136 | $\cdot 2$ | 0 | $\pm 6$ | Sensor output waveform |
|  | Signal (-) | B138 | 9 | 0 | 0 | -- |
|  | Shield | B136 | 13 | 0 | 0 | - |
| Maos air flow sensor | Signal | B136 | 6 | $0-0.3$ | $\therefore 0.8-1.2$ | - |
|  | Shieid | B136 | 13 | 0 | 0 | - |
|  | GND | B136 | 7 | 0 | - 0 | - |
| Throttle position sensor | Signa! | E136 | 16 | Fully closed $0.5+0.3$ Fully opened: $4.3 \pm 0.3$ |  | - |
|  | Power supply | B136 | 14 | 5 | 5 | - |
|  | GND | 8136 | 13 | 0 | 0 | - |
| Oxygen sensor | Signal | B136 | 5 | 0 | Rich mixture: 0.7 Lean mixture: 0 |  |
|  | Shield | B136 | 13 | 0 | 0 | - |
| Engine coolant temperature sensor | Signal | B136 | 3 | $0.6-1.0$ | 0.6-1.0 | After warm-up |
|  | GND | B136 | 13 | 0 | 0 | - |
| Venicle speed sensor 2 |  | 8135 | 3 | 0 or 5 | 0 or 5 | " 5 " and " 0 " are repeatediy displayed when vehicle is driver |
| Starter switch |  | B135 | 2 | 0 | 0 | Cranking: 10 to 14 |
| A/C switch |  | B135 | 10 | $\text { ON: } 10-13$ OFF: 0 | $\begin{gathered} \text { ON: } 13-14 \\ \text { OFF: } 0 \end{gathered}$ | - |
| Ignition switch |  | B136 | 11 | 10-13 | 13-14 | - |
| Neutral position switch (MT) |  | B135 | 9 | $\begin{aligned} & \text { ON: } 5 \\ & \text { OFF. } 0 \end{aligned}$ |  | Switch is ON when gear is in neutral position. |
| ParkiNeutral position switch (AT) |  | 8135 | 9 | ON: 0 OFF: 5 |  | Switch is ON when shift lever is in " P " or " N " position. |
| Test mode connector |  | 8136 | 21 | 5 | 5 | When connected: 0 |

$\because$. With immobiliser: 8
Withoul immobiliser: 10
". With mmobiliser: 10
Vitnout immobiliser 8

| $\begin{array}{l}\text { Content }\end{array}$ | $\begin{array}{c}\text { Connector } \\ \text { No. }\end{array}$ | $\begin{array}{c}\text { Terminal } \\ \text { No. }\end{array}$ | Ignition SW | Signal (V) | Engine ON (Idling) |
| :--- | :---: | :---: | :---: | :---: | :---: |$]$ Note

"3: With immobiliser: 17
Without immobiliser: 7
-4: AT model only
12. ENGINE ELECTRICAL SYSTEM

- LHD turbo model





Compiled by jared weeks 10-9-06

