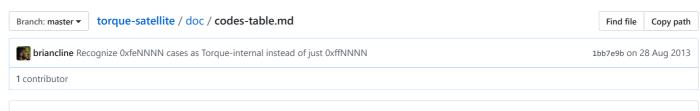
□ briancline / torque-satellite



189 lines (172 sloc) 12.1 KB

[∞]OBDII Codes and Torque Real-time HTTP Keys

The following work-in-progress tables list known OBDII codes and their equivalent keys when sent to an HTTP endpoint via the query string.

Basic Torque Data

| Description | OBDII | HTTP |
|-------------|-------|---------|
| Timestamp | | time |
| Device ID | | id |
| Session ID | | session |

Vehicle Instrumentation

| Description | OBDII | HTTP |
|--|-------|---------|
| Absolute Throttle Position B | 47 | k47 |
| Accelerator PedalPosition D | 49 | k49 |
| Accelerator PedalPosition E | 4a | k4a |
| Accelerator PedalPosition F | 4b | k4b |
| Air Fuel Ratio(Commanded) | | kff124d |
| Air Fuel Ratio(Measured) | | kff1249 |
| Air Status | 12 | k12 |
| Ambient air temp | 46 | k46 |
| Average trip speed(whilst moving only) | | kff1263 |
| Average trip speed(whilst stopped or moving) | | kff1272 |
| Barometer (on Android device) | | kff1270 |
| Barometric pressure (from vehicle) | 33 | k33 |
| Catalyst Temperature (Bank 1 Sensor 1) | 3c | k3c |
| Catalyst Temperature (Bank 1 Sensor 2) | 3e | k3e |
| Catalyst Temperature (Bank 2 Sensor 1) | 3d | k3d |
| Catalyst Temperature (Bank 2 Sensor 2) | 3f | k3f |
| CO₂ in g/km (Average) | | kff1258 |
| CO ₂ in g/km (Instantaneous) | | kff1257 |
| Commanded Equivalence Ratio(lambda) | 44 | k44 |
| Cost per mile/km (Instant) | | kff126d |

| Cost per mile/km (Trip) kff126a Distance to empty (Estimated) kff126a Distance travelled since codes cleared 31 k31 Distance travelled with MIL/CEL lit 21 k2c EGR Commanded 2c k2c EGR Error 2d k2d Engine Coolant Temperature 05 k05 Engine kW (At the wheels) 4kf1273 Engine Load 04 k04 Engine Load (Absolute) 43 k43 Engine RPM 0c k0c Ethanol Fuel % 52 k52 Evap System Vapour Pressure 32 k32 Exhaust Gas Temperature 1 78 k78 Exhaust Gas Temperature 2 79 k79 Fuel flow rate/hour kff125a kf125a Fuel flow rate/minute kff125a k2f Fuel flow rate/minute kf125a k2f Fuel Rail Pressure 2a k2f Fuel Rail Pressure (relative to manifold vacuum) 22 k22 Fuel Remaining (Calculated from veh | Description | OBDII | HTTP |
|--|--|-------|---------|
| Distance travelled since codes cleared 31 k31 Distance travelled with MIL/CEL lit 21 k21 EGR Commanded 2c k2c EGR Error 2d k2d Engine Coolant Temperature 05 k05 Engine Load 04 k04 Engine Load (Absolute) 43 k43 Engine PPM 0c k0c Ethanol Fuel % 52 k52 Evap System Vapour Pressure 32 k32 Exhaust Gas Temperature 1 78 k78 Exhaust Gas Temperature 2 79 k79 Fuel cost (trip) kff125a k81 Fuel flow rate/minute kff125a k26 Fuel How rate/minute kff125a k26 Fuel Pressure 0a k0a Fuel Rail Pressure (relative to manifold vacuum) 22 k22 Fuel Rail Pressure (relative to manifold vacuum) 22 k22 Fuel Trim Bank 1 Long Term 07 k07 Fuel Trim Bank 1 sensor 1 14 k14 <td>Cost per mile/km (Trip)</td> <td></td> <td>kff126e</td> | Cost per mile/km (Trip) | | kff126e |
| Distance travelled with MIL/CEL lit 21 k21 EGR Commanded 2c k2c EGR Error 2d k2d Engine Coolant Temperature 05 k05 Engine kW (At the wheels) | Distance to empty (Estimated) | | kff126a |
| EGR Commanded 2c k2c EGR Error 2d k2d Engine Coolant Temperature 05 k05 Engine kW (At the wheels) kff1273 Engine Load 04 k04 Engine Load (Absolute) 43 k43 Engine Oil Temperature 5c k5c Engine RPM 0c k0c Ethanol Fuel % 52 k52 Evap System Vapour Pressure 32 k32 Exhaust Gas Temperature 1 78 k78 Exhaust Gas Temperature 2 79 k79 Fuel cost (trip) kff125c Fuel flow rate/mour kff125d Fuel flow rate/minute kff125a Fuel Rail Pressure 23 k23 Fuel Rail Pressure (relative to manifold vacuum) 22 k22 Fuel Rail Pressure (relative to manifold vacuum) 22 k22 Fuel Remaining (Calculated from vehicle profile) kff126b Fuel Trim Bank 1 Long Term 07 k07 Fuel trim bank 1 sensor 1 14 k14 <td>Distance travelled since codes cleared</td> <td>31</td> <td>k31</td> | Distance travelled since codes cleared | 31 | k31 |
| EGR Error 2d k2d Engine Coolant Temperature 05 k05 Engine kW (At the wheels) kff1273 Engine Load 04 k04 Engine Load (Absolute) 43 k43 Engine Oil Temperature 5c k5c Engine RPM 0c k0c Ethanol Fuel % 52 k52 Evap System Vapour Pressure 32 k32 Exhaust Gas Temperature 1 78 k78 Exhaust Gas Temperature 2 79 k79 Fuel cost (trip) kff125c k19 Fuel flow rate/hour kff125d k2f Fuel Remaininute kff125d k2f Fuel Level (From Engine ECU) 2f k2f Fuel Rail Pressure 23 k23 Fuel Rail Pressure (relative to manifold vacuum) 22 k22 Fuel Remaining (Calculated from vehicle profile) kff126b Fuel Trim Bank 1 Long Term 07 k07 Fuel trim bank 1 sensor 2 15 k15 Fuel trim bank 1 sen | Distance travelled with MIL/CEL lit | 21 | k21 |
| Engine Coolant Temperature 05 k05 Engine kW (At the wheels) kff1273 Engine Load 04 k04 Engine Load(Absolute) 43 k43 Engine Oil Temperature 5c k5c Engine RPM 0c k0c Ethanol Fuel % 52 k52 Evap System Vapour Pressure 32 k32 Exhaust Gas Temperature 1 78 k78 Exhaust Gas Temperature 2 79 k79 Fuel cost (trip) kff125c kff125c Fuel flow rate/mour kff125d kff125d Fuel Rill Pressure 0a k0a Fuel Level (From Engine ECU) 2f k22 Fuel Rail Pressure 23 k23 Fuel Rail Pressure (relative to manifold vacuum) 22 k22 Fuel Remaining (Calculated from vehicle profile) kff126b Fuel Trim Bank 1 Long Term 07 k07 Fuel trim bank 1 sensor 1 14 k14 Fuel trim bank 1 sensor 2 15 k15 | EGR Commanded | 2c | k2c |
| Engine kW (At the wheels) kff1273 Engine Load 04 k04 Engine Load(Absolute) 43 k43 Engine Oil Temperature 5c k5c Engine RPM 0c k0c Ethanol Fuel % 52 k52 Evap System Vapour Pressure 32 k32 Exhaust Gas Temperature 1 78 k78 Exhaust Gas Temperature 2 79 k79 Fuel cost (trip) kff125c kff125c Fuel flow rate/hour kff125d kff125d Fuel flow rate/minute kff125a k2f Fuel Pressure 0a k0a Fuel Nail Pressure (relative to manifold vacuum) 22 k22 Fuel Rail Pressure (relative to manifold vacuum) 22 k22 Fuel Remaining (Calculated from vehicle profile) kff126b Fuel Status 03 k03 Fuel trim Bank 1 Long Term 07 k07 Fuel trim bank 1 sensor 2 15 k15 Fuel trim bank 1 sensor 3 16 k16 | EGR Error | 2d | k2d |
| Engine Load 04 k04 Engine Load(Absolute) 43 k43 Engine Oil Temperature 5c k5c Engine RPM 0c k0c Ethanol Fuel % 52 k52 Evap System Vapour Pressure 32 k32 Exhaust Gas Temperature 1 78 k78 Exhaust Gas Temperature 2 79 k79 Fuel cost (trip) kff125c kff125c Fuel flow rate/hour kff125d kff125d Fuel flow rate/minute kff125a k2f Fuel Level (From Engine ECU) 2f k2f Fuel pressure 0a k0a Fuel Rail Pressure (relative to manifold vacuum) 22 k22 Fuel Remaining (Calculated from vehicle profile) kff126b Fuel Status 03 k03 Fuel Trim Bank 1 Long Term 07 k07 Fuel trim bank 1 sensor 1 14 k14 Fuel trim bank 1 sensor 2 15 k15 Fuel trim bank 1 Sensor 4 17 k17 | Engine Coolant Temperature | 05 | k05 |
| Engine Load(Absolute) 43 k43 Engine Oil Temperature 5c k5c Engine RPM 0c k0c Ethanol Fuel % 52 k52 Evap System Vapour Pressure 32 k32 Exhaust Gas Temperature 1 78 k78 Exhaust Gas Temperature 2 79 k79 Fuel cost (trip) kff125c kff125c Fuel flow rate/hour kff125d kff125d Fuel flow rate/hour kff125d k2f Fuel flow rate/minute kff125d k2f Fuel flow rate/minute k6f125d k2f Fuel pressure 0a k0a Fuel pressure 0a k0a Fuel Rail Pressure (relative to manifold vacuum) 22 k22 Fuel Remaining (Calculated from vehicle profile) kff126b Fuel Status 03 k03 Fuel Trim Bank 1 Long Term 07 k07 Fuel trim bank 1 sensor 2 15 k15 Fuel trim bank 1 sensor 3 16 k16 < | Engine kW (At the wheels) | | kff1273 |
| Engine Oil Temperature 5c k5c Engine RPM 0c k0c Ethanol Fuel % 52 k52 Evap System Vapour Pressure 32 k32 Exhaust Gas Temperature 1 78 k78 Exhaust Gas Temperature 2 79 k79 Fuel cost (trip) kff125c kff125c Fuel flow rate/hour kff125d kff125d Fuel flow rate/minute kff125d k2f Fuel Row rate/minute kff125d k2f Fuel From Engine ECU) 2f k2f Fuel pressure 0a k0a Fuel Rail Pressure (relative to manifold vacuum) 22 k22 Fuel Rail Pressure (relative to manifold vacuum) 22 k22 Fuel Remaining (Calculated from vehicle profile) kff126b Fuel Trim Bank 1 Long Term 07 k07 Fuel trim bank 1 sensor 1 14 k14 Fuel trim bank 1 sensor 2 15 k15 Fuel trim bank 1 sensor 3 16 k16 Fuel Trim Bank 2 Long Term 09 | Engine Load | 04 | k04 |
| Engine RPM 0c k0c Ethanol Fuel % 52 k52 Evap System Vapour Pressure 32 k32 Exhaust Gas Temperature 1 78 k78 Exhaust Gas Temperature 2 79 k79 Fuel cost (trip) kff125c Fuel flow rate/hour kff125d Fuel flow rate/minute kff125a Fuel Rend (From Engine ECU) 2f k2f Fuel Revel (From Engine ECU) 2f k2f Fuel Rail Pressure 23 k2a Fuel Rail Pressure (relative to manifold vacuum) 22 k22 Fuel Remaining (Calculated from vehicle profile) kff126b Fuel Status 03 k03 Fuel Trim Bank 1 Long Term 07 k07 Fuel trim bank 1 sensor 1 14 k14 Fuel trim bank 1 sensor 2 15 k15 Fuel Trim Bank 1 Short Term 06 k06 Fuel Trim Bank 2 Long Term 09 k09 Fuel trim bank 2 sensor 1 18 k18 Fuel trim bank 2 sensor 2 | Engine Load(Absolute) | 43 | k43 |
| Ethanol Fuel % 52 k52 Evap System Vapour Pressure 32 k32 Exhaust Gas Temperature 1 78 k78 Exhaust Gas Temperature 2 79 k79 Fuel cost (trip) kff125c Fuel flow rate/hour kff125d Fuel flow rate/minute kff125a Fuel Level (From Engine ECU) 2f k2f Fuel Pressure 0a k0a Fuel Rail Pressure (relative to manifold vacuum) 22 k22 Fuel Remaining (Calculated from vehicle profile) kff126b Fuel Status 03 k03 Fuel Trim Bank 1 Long Term 07 k07 Fuel trim bank 1 sensor 1 14 k14 Fuel trim bank 1 sensor 2 15 k15 Fuel trim bank 1 sensor 3 16 k16 Fuel Trim Bank 1 Short Term 06 k06 Fuel Trim Bank 2 Long Term 09 k09 Fuel trim bank 2 sensor 1 18 k18 Fuel trim bank 2 sensor 2 19 k19 Fuel trim bank 2 sensor 3 <td>Engine Oil Temperature</td> <td>5c</td> <td>k5c</td> | Engine Oil Temperature | 5c | k5c |
| Evap System Vapour Pressure 32 k32 Exhaust Gas Temperature 1 78 k78 Exhaust Gas Temperature 2 79 k79 Fuel cost (trip) kff125c Fuel flow rate/hour kff125d Fuel flow rate/minute kff125a Fuel Level (From Engine ECU) 2f k2f Fuel pressure 0a k0a Fuel Rail Pressure (relative to manifold vacuum) 22 k22 Fuel Remaining (Calculated from vehicle profile) kff126b Fuel Status 03 k03 Fuel Trim Bank 1 Long Term 07 k07 Fuel trim bank 1 sensor 1 14 k14 Fuel trim bank 1 sensor 2 15 k15 Fuel trim bank 1 sensor 3 16 k16 Fuel Trim Bank 1 Short Term 06 k06 Fuel Trim Bank 2 Long Term 09 k09 Fuel trim bank 2 sensor 1 18 k18 Fuel trim bank 2 sensor 2 19 k19 Fuel trim bank 2 sensor 3 1a k1a Fuel trim bank 2 sensor 4 1b k1b Fuel trim bank 2 sensor | Engine RPM | 0c | k0c |
| Exhaust Gas Temperature 1 78 k78 Exhaust Gas Temperature 2 79 k79 Fuel cost (trip) | Ethanol Fuel % | 52 | k52 |
| Exhaust Gas Temperature 2 79 k79 Fuel cost (trip) | Evap System Vapour Pressure | 32 | k32 |
| Fuel cost (trip) Fuel flow rate/hour Fuel flow rate/minute Fuel Level (From Engine ECU) Fuel pressure Oa k0a Fuel Rail Pressure Fuel Rail Pressure (relative to manifold vacuum) Fuel Remaining (Calculated from vehicle profile) Fuel Status Fuel Trim Bank 1 Long Term Fuel trim bank 1 sensor 1 Fuel trim bank 1 sensor 2 Fuel trim bank 1 sensor 3 Fuel trim bank 1 sensor 4 Fuel trim Bank 1 Short Term Fuel Trim Bank 2 sensor 1 Fuel trim bank 2 sensor 3 Fuel trim bank 2 sensor 4 Fuel trim bank 2 sensor 6 Fuel trim bank 3 sensor 9 Fuel trim bank 4 sensor 9 Fuel trim bank 5 sensor 9 Fuel trim bank 6 sensor 9 Fuel trim bank 9 sensor 9 Fuel trim Ban | Exhaust Gas Temperature 1 | 78 | k78 |
| Fuel flow rate/hour Fuel flow rate/minute Fuel Level (From Engine ECU) Fuel pressure Oa k0a Fuel Rail Pressure Fuel Rail Pressure (relative to manifold vacuum) Fuel Remaining (Calculated from vehicle profile) Fuel Status Fuel Trim Bank 1 Long Term Fuel trim bank 1 sensor 1 Fuel trim bank 1 sensor 2 Fuel trim bank 1 sensor 3 Fuel trim bank 1 sensor 4 Fuel trim Bank 2 Long Term O6 k06 Fuel Trim Bank 2 Sensor 1 Fuel trim bank 3 sensor 4 Fuel trim bank 4 Sensor 5 Fuel Trim Bank 5 Short Term Ob k06 Fuel Trim Bank 6 Sensor 1 Fuel trim bank 8 Sensor 1 Fuel trim bank 9 Sensor 9 Fuel trim Bank 9 Short Term O8 k08 Fuel used (trip) | Exhaust Gas Temperature 2 | 79 | k79 |
| Fuel flow rate/minute Fuel Level (From Engine ECU) Fuel pressure 0a k0a Fuel Rail Pressure 23 k23 Fuel Rail Pressure (relative to manifold vacuum) Fuel Remaining (Calculated from vehicle profile) Fuel Status Fuel Trim Bank 1 Long Term 70 k07 Fuel trim bank 1 sensor 1 Fuel trim bank 1 sensor 2 Fuel trim bank 1 sensor 3 Fuel trim bank 1 sensor 4 Fuel Trim Bank 1 Short Term 66 k06 Fuel Trim Bank 2 Long Term 79 k09 Fuel trim bank 2 sensor 1 Fuel trim bank 3 sensor 2 Fuel trim bank 4 sensor 1 Fuel trim bank 5 sensor 1 Fuel Trim Bank 6 k06 Fuel Trim Bank 8 k08 Fuel trim bank 8 sensor 4 Fuel trim bank 8 sensor 8 Fuel trim bank 8 sensor 9 Fuel trim bank 9 sensor 9 Fu | Fuel cost (trip) | | kff125c |
| Fuel Level (From Engine ECU) Fuel pressure 0a k0a Fuel Rail Pressure 23 k23 Fuel Rail Pressure (relative to manifold vacuum) 22 k22 Fuel Remaining (Calculated from vehicle profile) Fuel Status 03 k03 Fuel Trim Bank 1 Long Term 07 k07 Fuel trim bank 1 sensor 1 14 k14 Fuel trim bank 1 sensor 2 15 k15 Fuel trim bank 1 sensor 3 16 k16 Fuel trim bank 1 sensor 4 17 k17 Fuel Trim Bank 2 Long Term 09 k09 Fuel trim bank 2 sensor 1 18 k18 Fuel trim bank 2 sensor 2 19 k19 Fuel trim bank 2 sensor 4 Fuel trim bank 2 sensor 4 Fuel trim bank 2 sensor 1 Fuel trim bank 2 sensor 1 Fuel trim bank 2 sensor 2 Fuel trim bank 2 sensor 4 Fuel Trim Bank 2 Short Term 08 k08 Fuel used (trip) | Fuel flow rate/hour | | kff125d |
| Fuel pressure 0a k0a Fuel Rail Pressure 23 k23 Fuel Rail Pressure (relative to manifold vacuum) 22 k22 Fuel Remaining (Calculated from vehicle profile) kff126b Fuel Status 03 k03 Fuel Trim Bank 1 Long Term 07 k07 Fuel trim bank 1 sensor 1 14 k14 Fuel trim bank 1 sensor 2 15 k15 Fuel trim bank 1 sensor 3 16 k16 Fuel trim bank 1 sensor 4 17 k17 Fuel Trim Bank 1 Short Term 06 k06 Fuel Trim Bank 2 Long Term 09 k09 Fuel trim bank 2 sensor 1 18 k18 Fuel trim bank 2 sensor 2 19 k19 Fuel trim bank 2 sensor 4 10 k16 Fuel Trim Bank 2 Sensor 4 10 k16 Fuel Trim Bank 2 Sensor 5 11 k18 Fuel trim bank 2 sensor 6 10 k16 Fuel Trim Bank 2 sensor 9 11 k19 Fuel Trim Bank 2 Sensor 9 11 k19 Fuel trim bank 2 sensor 9 k08 Fuel trim bank 2 Sensor 9 k09 Fuel trim bank 2 Sensor 9 k19 Fuel trim bank 2 Sensor 9 k09 Fuel trim bank 2 Sensor 9 k19 Fuel trim bank 2 Sensor 9 k19 Fuel trim bank 2 Sensor 9 k08 Fuel Used (trip) kff1271 | Fuel flow rate/minute | | kff125a |
| Fuel Rail Pressure 23 k23 Fuel Rail Pressure (relative to manifold vacuum) 22 k22 Fuel Remaining (Calculated from vehicle profile) kff126b Fuel Status 03 k03 Fuel Trim Bank 1 Long Term 07 k07 Fuel trim bank 1 sensor 1 14 k14 Fuel trim bank 1 sensor 2 15 k15 Fuel trim bank 1 sensor 3 16 k16 Fuel trim bank 1 sensor 4 17 k17 Fuel Trim Bank 1 Short Term 06 k06 Fuel Trim Bank 2 Long Term 09 k09 Fuel trim bank 2 sensor 1 18 k18 Fuel trim bank 2 sensor 2 19 k19 Fuel trim bank 2 sensor 3 1a k1a Fuel trim bank 2 sensor 4 1b k1b Fuel Trim Bank 2 Short Term 08 k08 Fuel used (trip) kff1271 | Fuel Level (From Engine ECU) | 2f | k2f |
| Fuel Rail Pressure (relative to manifold vacuum) Fuel Remaining (Calculated from vehicle profile) Fuel Status Fuel Trim Bank 1 Long Term O7 k07 Fuel trim bank 1 sensor 1 Fuel trim bank 1 sensor 2 Fuel trim bank 1 sensor 3 Fuel trim bank 1 sensor 4 Fuel trim bank 1 Sensor 4 Fuel Trim Bank 2 Long Term O6 k06 Fuel Trim Bank 2 sensor 1 Fuel trim bank 2 sensor 3 Fuel trim bank 2 sensor 4 Fuel trim bank 2 Short Term O8 k08 Fuel used (trip) | Fuel pressure | 0a | k0a |
| Fuel Remaining (Calculated from vehicle profile) Fuel Status O3 k03 Fuel Trim Bank 1 Long Term O7 k07 Fuel trim bank 1 sensor 1 Fuel trim bank 1 sensor 2 15 k15 Fuel trim bank 1 sensor 3 16 k16 Fuel trim bank 1 sensor 4 Fuel Trim Bank 1 Short Term O6 k06 Fuel Trim Bank 2 Long Term O9 k09 Fuel trim bank 2 sensor 1 Fuel trim bank 2 sensor 2 19 k19 Fuel trim bank 2 sensor 3 Fuel trim bank 2 sensor 4 Fuel trim bank 2 sensor 3 Fuel trim bank 2 sensor 3 Fuel trim bank 2 sensor 4 Fuel trim bank 2 Short Term O8 k08 Fuel used (trip) | Fuel Rail Pressure | 23 | k23 |
| Fuel Status 03 k03 Fuel Trim Bank 1 Long Term 07 k07 Fuel trim bank 1 sensor 1 14 k14 Fuel trim bank 1 sensor 2 15 k15 Fuel trim bank 1 sensor 3 16 k16 Fuel trim bank 1 sensor 4 17 k17 Fuel Trim Bank 1 Short Term 06 k06 Fuel Trim Bank 2 Long Term 09 k09 Fuel trim bank 2 sensor 1 18 k18 Fuel trim bank 2 sensor 2 19 k19 Fuel trim bank 2 sensor 3 1a k1a Fuel trim bank 2 sensor 4 1b k1b Fuel Trim Bank 2 Short Term 08 k08 Fuel used (trip) kff1271 | Fuel Rail Pressure (relative to manifold vacuum) | 22 | k22 |
| Fuel Trim Bank 1 Long Term 07 k07 Fuel trim bank 1 sensor 1 14 k14 Fuel trim bank 1 sensor 2 15 k15 Fuel trim bank 1 sensor 3 16 k16 Fuel trim bank 1 sensor 4 17 k17 Fuel Trim Bank 1 Short Term 06 k06 Fuel Trim Bank 2 Long Term 09 k09 Fuel trim bank 2 sensor 1 18 k18 Fuel trim bank 2 sensor 2 19 k19 Fuel trim bank 2 sensor 3 1a k1a Fuel trim bank 2 sensor 4 1b k1b Fuel Trim Bank 2 Short Term 08 k08 Fuel used (trip) kff1271 | Fuel Remaining (Calculated from vehicle profile) | | kff126b |
| Fuel trim bank 1 sensor 1 14 k14 Fuel trim bank 1 sensor 2 15 k15 Fuel trim bank 1 sensor 3 16 k16 Fuel trim bank 1 sensor 4 17 k17 Fuel Trim Bank 1 Short Term 06 k06 Fuel Trim Bank 2 Long Term 09 k09 Fuel trim bank 2 sensor 1 18 k18 Fuel trim bank 2 sensor 2 19 k19 Fuel trim bank 2 sensor 3 1a k1a Fuel trim bank 2 sensor 4 1b k1b Fuel Trim Bank 2 Short Term 08 k08 Fuel used (trip) kff1271 | Fuel Status | 03 | k03 |
| Fuel trim bank 1 sensor 2 15 k15 Fuel trim bank 1 sensor 3 16 k16 Fuel trim bank 1 sensor 4 17 k17 Fuel Trim Bank 1 Short Term 06 k06 Fuel Trim Bank 2 Long Term 09 k09 Fuel trim bank 2 sensor 1 18 k18 Fuel trim bank 2 sensor 2 19 k19 Fuel trim bank 2 sensor 3 1a k1a Fuel trim bank 2 sensor 4 1b k1b Fuel Trim Bank 2 Short Term 08 k08 Fuel used (trip) kff1271 | Fuel Trim Bank 1 Long Term | 07 | k07 |
| Fuel trim bank 1 sensor 3 16 k16 Fuel trim bank 1 sensor 4 17 k17 Fuel Trim Bank 1 Short Term 06 k06 Fuel Trim Bank 2 Long Term 09 k09 Fuel trim bank 2 sensor 1 18 k18 Fuel trim bank 2 sensor 2 19 k19 Fuel trim bank 2 sensor 3 1a k1a Fuel trim bank 2 sensor 4 1b k1b Fuel Trim Bank 2 Short Term 08 k08 Fuel used (trip) kff1271 | Fuel trim bank 1 sensor 1 | 14 | k14 |
| Fuel trim bank 1 sensor 4 17 k17 Fuel Trim Bank 1 Short Term 06 k06 Fuel Trim Bank 2 Long Term 09 k09 Fuel trim bank 2 sensor 1 18 k18 Fuel trim bank 2 sensor 2 19 k19 Fuel trim bank 2 sensor 3 1a k1a Fuel trim bank 2 sensor 4 1b k1b Fuel Trim Bank 2 Short Term 08 k08 Fuel used (trip) kff1271 | Fuel trim bank 1 sensor 2 | 15 | k15 |
| Fuel Trim Bank 1 Short Term 06 k06 Fuel Trim Bank 2 Long Term 09 k09 Fuel trim bank 2 sensor 1 18 k18 Fuel trim bank 2 sensor 2 19 k19 Fuel trim bank 2 sensor 3 1a k1a Fuel trim bank 2 sensor 4 1b k1b Fuel Trim Bank 2 Short Term 08 k08 Fuel used (trip) kff1271 | Fuel trim bank 1 sensor 3 | 16 | k16 |
| Fuel Trim Bank 2 Long Term 09 k09 Fuel trim bank 2 sensor 1 18 k18 Fuel trim bank 2 sensor 2 19 k19 Fuel trim bank 2 sensor 3 1a k1a Fuel trim bank 2 sensor 4 1b k1b Fuel Trim Bank 2 Short Term 08 k08 Fuel used (trip) kff1271 | Fuel trim bank 1 sensor 4 | 17 | k17 |
| Fuel trim bank 2 sensor 1 Fuel trim bank 2 sensor 2 Fuel trim bank 2 sensor 3 Fuel trim bank 2 sensor 3 Fuel trim bank 2 sensor 4 Fuel Trim Bank 2 Short Term O8 k08 Fuel used (trip) k18 k19 k19 k10 k10 k10 k11 k11 k11 | Fuel Trim Bank 1 Short Term | 06 | k06 |
| Fuel trim bank 2 sensor 2 Fuel trim bank 2 sensor 3 1a k1a Fuel trim bank 2 sensor 4 Tuel trim bank 2 sensor 4 Fuel Trim Bank 2 Short Term 08 k08 Fuel used (trip) kff1271 | Fuel Trim Bank 2 Long Term | 09 | k09 |
| Fuel trim bank 2 sensor 3 1a k1a Fuel trim bank 2 sensor 4 1b k1b Fuel Trim Bank 2 Short Term 08 k08 Fuel used (trip) kff1271 | Fuel trim bank 2 sensor 1 | 18 | k18 |
| Fuel trim bank 2 sensor 4 1b k1b Fuel Trim Bank 2 Short Term 08 k08 Fuel used (trip) kff1271 | Fuel trim bank 2 sensor 2 | 19 | k19 |
| Fuel Trim Bank 2 Short Term 08 k08 Fuel used (trip) kff1271 | Fuel trim bank 2 sensor 3 | 1a | k1a |
| Fuel used (trip) kff1271 | Fuel trim bank 2 sensor 4 | 1b | k1b |
| | Fuel Trim Bank 2 Short Term | 08 | k08 |
| Horsepower (At the wheels) kff1226 | Fuel used (trip) | | kff1271 |
| | Horsepower (At the wheels) | | kff1226 |

| Description | OBDII | HTTF |
|---|-------|---------|
| Intake Manifold Pressure | 0b | k0b |
| Kilometers Per Litre(Instant) | | kff1203 |
| Kilometers Per Litre(Long Term Average) | | kff5202 |
| Litres Per 100 Kilometer(Instant) | | kff1207 |
| Litres Per 100 Kilometer(Long Term Average) | | kff5203 |
| Mass Air Flow Rate | 10 | k10 |
| Miles Per Gallon(Instant) | | kff1201 |
| Miles Per Gallon(Long Term Average) | | kff5201 |
| O2 Sensor1 Equivalence Ratio | 24 | k24 |
| O2 Sensor1 Equivalence Ratio(alternate) | 34 | k34 |
| O2 Sensor1 wide-range Voltage | | kff1240 |
| O2 Sensor2 Equivalence Ratio | 25 | k25 |
| O2 Sensor2 wide-range Voltage | | kff1241 |
| O2 Sensor3 Equivalence Ratio | 26 | k26 |
| O2 Sensor3 wide-range Voltage | | kff1242 |
| O2 Sensor4 Equivalence Ratio | 27 | k27 |
| O2 Sensor4 wide-range Voltage | | kff1243 |
| O2 Sensor5 Equivalence Ratio | 28 | k28 |
| O2 Sensor5 wide-range Voltage | | kff1244 |
| O2 Sensor6 Equivalence Ratio | 29 | k29 |
| O2 Sensor6 wide-range Voltage | | kff1245 |
| O2 Sensor7 Equivalence Ratio | 2a | k2a |
| O2 Sensor7 wide-range Voltage | | kff1246 |
| O2 Sensor8 Equivalence Ratio | 2b | k2k |
| O2 Sensor8 wide-range Voltage | | kff1247 |
| O2 Volts Bank 1 sensor 1 | | kff1214 |
| O2 Volts Bank 1 sensor 2 | | kff1215 |
| O2 Volts Bank 1 sensor 3 | | kff1216 |
| O2 Volts Bank 1 sensor 4 | | kff1217 |
| O2 Volts Bank 2 sensor 1 | | kff1218 |
| O2 Volts Bank 2 sensor 2 | | kff1219 |
| O2 Volts Bank 2 sensor 3 | | kff121a |
| O2 Volts Bank 2 sensor 4 | | kff121k |
| Relative Accelerator Pedal Position | 5a | k5a |
| Relative Throttle Position | 45 | k45 |
| Run time since engine start | 1f | k1 |
| Speed (GPS) | | kff1001 |
| Speed (OBD) | 0d | k0c |
| Intake Air Temperature | Of | k0 |

| Description | OBDII | HTTP |
|---|-------|---------|
| Throttle Position(Manifold) | 11 | k11 |
| Timing Advance | 0e | k0e |
| Torque | | kff1225 |
| Transmission Temperature(Method 1) | | kfe1805 |
| Transmission Temperature(Method 2) | b4 | kb4 |
| Trip average KPL | | kff1206 |
| Trip average Litres/100 KM | | kff1208 |
| Trip average MPG | | kff1205 |
| Trip Distance | | kff1204 |
| Trip distance (stored in vehicle profile) | | kff120c |
| Trip Time(Since journey start) | | kff1266 |
| Trip Time(whilst moving) | | kff1268 |
| Trip time(whilst stationary) | | kff1267 |
| Turbo Boost & Vacuum Gauge | | kff1202 |
| Voltage (Control Module) | 42 | k42 |
| Voltage (OBD Adapter) | | kff1238 |
| Volumetric Efficiency (Calculated) | | kff1269 |

Device Instrumentation

| Description | OBDII | НТТР |
|-----------------------------|-------|---------|
| Acceleration Sensor(Total) | | kff1223 |
| Acceleration Sensor(X axis) | | kff1220 |
| Acceleration Sensor(Y axis) | | kff1221 |
| Acceleration Sensor(Z axis) | | kff1222 |
| GPS Accuracy | | kff1239 |
| GPS Altitude | | kff1010 |
| GPS Bearing | | kff123b |
| GPS Latitude | | kff1006 |
| GPS Longitude | | kff1005 |
| GPS Satellites | | kff123a |
| GPS vs OBD Speed difference | | kff1237 |
| Tilt(x) | | kff124a |
| Tilt(y) | | kff124b |
| Tilt(z) | | kff124c |

Saved Measurements

| Description | OBDII | HTTP |
|---------------|-------|---------|
| 0-100kph Time | | kff122e |

| Description | OBDII | НТТР |
|----------------|-------|---------|
| 0-200kph Time | | kff124f |
| 0-30mph Time | | kff1277 |
| 0-60mph Time | | kff122d |
| 1/4 mile time | | kff122f |
| 1/8 mile time | | kff1230 |
| 100-0kph Time | | kff1264 |
| 40-60mph Time | | kff1260 |
| 60-0mph Time | | kff1265 |
| 60-120mph Time | | kff125e |
| 60-130mph Time | | kff1276 |
| 60-80mph Time | | kff125f |
| 80-100mph Time | | kff1261 |
| 80-120kph Time | | kff1275 |

Credits

- Optima Forums
- Torque Pro