VERSION ""

NS\_ :

NS\_DESC\_

CM\_

BA\_DEF\_

BA\_

VAL\_

CAT\_DEF\_

CAT\_

FILTER

BA\_DEF\_DEF\_

EV\_DATA\_

ENVVAR\_DATA\_

SGTYPE\_

SGTYPE\_VAL\_

BA\_DEF\_SGTYPE\_

BA\_SGTYPE\_

SIG\_TYPE\_REF\_

VAL\_TABLE\_

SIG\_GROUP\_

SIG\_VALTYPE\_

SIGTYPE\_VALTYPE\_

BO\_TX\_BU\_

BA\_DEF\_REL\_

BA\_REL\_

BA\_DEF\_DEF\_REL\_

BU\_SG\_REL\_

BU\_EV\_REL\_

BU\_BO\_REL\_

SG\_MUL\_VAL\_

BS\_:

BU\_:

BO\_ 2564485397 OBD2: 8 Vector\_\_XXX

SG\_ S01PID00\_PIDsSupported\_01\_20 m0 : 31|32@0+ (1,0) [0|4294967295] "" Vector\_\_XXX

SG\_ S01PID01\_MonitorStatus m1 : 31|32@0+ (1,0) [0|4294967295] "" Vector\_\_XXX

SG\_ S01PID02\_FreezeDTC m2 : 31|16@0+ (1,0) [0|65535] "" Vector\_\_XXX

SG\_ S01PID03\_FuelSystemStatus m3 : 31|16@0+ (1,0) [0|65535] "" Vector\_\_XXX

SG\_ S01PID04\_CalcEngineLoad m4 : 31|8@0+ (0.39216,0) [0|100] "%" Vector\_\_XXX

SG\_ S01PID05\_EngineCoolantTemp m5 : 31|8@0+ (1,-40) [-40|215] "degC" Vector\_\_XXX

SG\_ S01PID06\_ShortFuelTrimBank1 m6 : 31|8@0+ (0.78125,-100) [-100|99.21875] "%" Vector\_\_XXX

SG\_ S01PID07\_LongFuelTrimBank1 m7 : 31|8@0+ (0.78125,-100) [-100|99.21875] "%" Vector\_\_XXX

SG\_ S01PID08\_ShortFuelTrimBank2 m8 : 31|8@0+ (0.78125,-100) [-100|99.21875] "%" Vector\_\_XXX

SG\_ S01PID09\_LongFuelTrimBank2 m9 : 31|8@0+ (0.78125,-100) [-100|99.21875] "%" Vector\_\_XXX

SG\_ S01PID0A\_FuelPressure m10 : 31|8@0+ (3,0) [0|765] "kPa" Vector\_\_XXX

SG\_ S01PID0B\_IntakeManiAbsPress m11 : 31|8@0+ (1,0) [0|255] "kPa" Vector\_\_XXX

SG\_ S01PID0C\_EngineRPM m12 : 31|16@0+ (0.25,0) [0|16383.75] "rpm" Vector\_\_XXX

SG\_ S01PID0D\_VehicleSpeed m13 : 31|8@0+ (1,0) [0|255] "km/h" Vector\_\_XXX

SG\_ S01PID0E\_TimingAdvance m14 : 31|8@0+ (0.5,-64) [-64|63.5] "deg before TDC" Vector\_\_XXX

SG\_ S01PID0F\_IntakeAirTemperature m15 : 31|8@0+ (1,-40) [-40|215] "degC" Vector\_\_XXX

SG\_ S01PID10\_MAFAirFlowRate m16 : 31|16@0+ (0.01,0) [0|655.35] "grams/sec" Vector\_\_XXX

SG\_ S01PID11\_ThrottlePosition m17 : 31|8@0+ (0.39216,0) [0|100] "%" Vector\_\_XXX

SG\_ S01PID12\_CmdSecAirStatus m18 : 31|8@0+ (1,0) [0|255] "" Vector\_\_XXX

SG\_ S01PID14\_OxySensor1\_Volt m20 : 31|8@0+ (0.005,0) [0|1.275] "volts" Vector\_\_XXX

SG\_ S01PID14\_OxySensor1\_STFT m20 : 39|8@0+ (0.78125,-100) [-100|99.21875] "%" Vector\_\_XXX

SG\_ S01PID15\_OxySensor2\_Volt m21 : 31|8@0+ (0.005,0) [0|1.275] "volts" Vector\_\_XXX

SG\_ S01PID15\_OxySensor2\_STFT m21 : 39|8@0+ (0.78125,-100) [-100|99.21875] "%" Vector\_\_XXX

SG\_ S01PID16\_OxySensor3\_Volt m22 : 31|8@0+ (0.005,0) [0|1.275] "volts" Vector\_\_XXX

SG\_ S01PID16\_OxySensor3\_STFT m22 : 39|8@0+ (0.78125,-100) [-100|99.21875] "%" Vector\_\_XXX

SG\_ S01PID17\_OxySensor4\_Volt m23 : 31|8@0+ (0.005,0) [0|1.275] "volts" Vector\_\_XXX

SG\_ S01PID17\_OxySensor4\_STFT m23 : 39|8@0+ (0.78125,-100) [-100|99.21875] "%" Vector\_\_XXX

SG\_ S01PID18\_OxySensor5\_Volt m24 : 31|8@0+ (0.005,0) [0|1.275] "volts" Vector\_\_XXX

SG\_ S01PID18\_OxySensor5\_STFT m24 : 39|8@0+ (0.78125,-100) [-100|99.21875] "%" Vector\_\_XXX

SG\_ S01PID19\_OxySensor6\_Volt m25 : 31|8@0+ (0.005,0) [0|1.275] "volts" Vector\_\_XXX

SG\_ S01PID19\_OxySensor6\_STFT m25 : 39|8@0+ (0.78125,-100) [-100|99.21875] "%" Vector\_\_XXX

SG\_ S01PID1A\_OxySensor7\_Volt m26 : 31|8@0+ (0.005,0) [0|1.275] "volts" Vector\_\_XXX

SG\_ S01PID1A\_OxySensor7\_STFT m26 : 39|8@0+ (0.78125,-100) [-100|99.21875] "%" Vector\_\_XXX

SG\_ S01PID1B\_OxySensor8\_Volt m27 : 31|8@0+ (0.005,0) [0|1.275] "volts" Vector\_\_XXX

SG\_ S01PID1B\_OxySensor8\_STFT m27 : 39|8@0+ (0.78125,-100) [-100|99.21875] "%" Vector\_\_XXX

SG\_ S01PID1C\_OBDStandard m28 : 31|8@0+ (1,0) [0|255] "" Vector\_\_XXX

SG\_ S01PID1F\_TimeSinceEngStart m31 : 31|16@0+ (1,0) [0|65535] "seconds" Vector\_\_XXX

SG\_ S01PID20\_PIDsSupported\_21\_40 m32 : 31|32@0+ (1,0) [0|4294967295] "" Vector\_\_XXX

SG\_ S01PID21\_DistanceMILOn m33 : 31|16@0+ (1,0) [0|65535] "km" Vector\_\_XXX

SG\_ S01PID22\_FuelRailPres m34 : 31|16@0+ (0.079,0) [0|5177.265] "kPa" Vector\_\_XXX

SG\_ S01PID23\_FuelRailGaug m35 : 31|16@0+ (10,0) [0|655350] "kPa" Vector\_\_XXX

SG\_ S01PID24\_OxySensor1\_FAER m36 : 31|16@0+ (3.0517578125E-005,0) [0|2] "ratio" Vector\_\_XXX

SG\_ S01PID24\_OxySensor1\_Volt m36 : 47|16@0+ (0.0001220703125,0) [0|2] "volts" Vector\_\_XXX

SG\_ S01PID25\_OxySensor2\_FAER m37 : 31|16@0+ (3.0517578125E-005,0) [0|2] "ratio" Vector\_\_XXX

SG\_ S01PID25\_OxySensor2\_Volt m37 : 47|16@0+ (0.0001220703125,0) [0|8] "volts" Vector\_\_XXX

SG\_ S01PID26\_OxySensor3\_FAER m38 : 31|16@0+ (3.0517578125E-005,0) [0|2] "ratio" Vector\_\_XXX

SG\_ S01PID26\_OxySensor3\_Volt m38 : 47|16@0+ (0.0001220703125,0) [0|8] "volts" Vector\_\_XXX

SG\_ S01PID27\_OxySensor4\_FAER m39 : 31|16@0+ (3.0517578125E-005,0) [0|2] "ratio" Vector\_\_XXX

SG\_ S01PID27\_OxySensor4\_Volt m39 : 47|16@0+ (0.0001220703125,0) [0|8] "volts" Vector\_\_XXX

SG\_ S01PID28\_OxySensor5\_FAER m40 : 31|16@0+ (3.0517578125E-005,0) [0|2] "ratio" Vector\_\_XXX

SG\_ S01PID28\_OxySensor5\_Volt m40 : 47|16@0+ (0.0001220703125,0) [0|8] "volts" Vector\_\_XXX

SG\_ S01PID29\_OxySensor6\_FAER m41 : 31|16@0+ (3.0517578125E-005,0) [0|2] "ratio" Vector\_\_XXX

SG\_ S01PID29\_OxySensor6\_Volt m41 : 47|16@0+ (0.0001220703125,0) [0|8] "volts" Vector\_\_XXX

SG\_ S01PID2A\_OxySensor7\_FAER m42 : 31|16@0+ (3.0517578125E-005,0) [0|2] "ratio" Vector\_\_XXX

SG\_ S01PID2A\_OxySensor7\_Volt m42 : 47|16@0+ (0.0001220703125,0) [0|8] "volts" Vector\_\_XXX

SG\_ S01PID2B\_OxySensor8\_FAER m43 : 31|16@0+ (3.0517578125E-005,0) [0|2] "ratio" Vector\_\_XXX

SG\_ S01PID2B\_OxySensor8\_Volt m43 : 47|16@0+ (0.0001220703125,0) [0|8] "volts" Vector\_\_XXX

SG\_ S01PID2C\_CmdEGR m44 : 31|8@0+ (0.392156862745098,0) [0|100] "%" Vector\_\_XXX

SG\_ S01PID2D\_EGRError m45 : 31|8@0+ (0.78125,-100) [-100|99.21875] "%" Vector\_\_XXX

SG\_ S01PID2E\_CmdEvapPurge m46 : 31|8@0+ (0.392156862745098,0) [0|100] "%" Vector\_\_XXX

SG\_ S01PID2F\_FuelTankLevel m47 : 31|8@0+ (0.392156862745098,0) [0|100] "%" Vector\_\_XXX

SG\_ S01PID30\_WarmUpsSinceCodeClear m48 : 31|8@0+ (1,0) [0|255] "count" Vector\_\_XXX

SG\_ S01PID31\_DistanceSinceCodeClear m49 : 31|16@0+ (1,0) [0|65535] "km" Vector\_\_XXX

SG\_ S01PID32\_EvapSysVaporPres m50 : 31|16@0- (0.25,0) [-8192|8191.75] "Pa" Vector\_\_XXX

SG\_ S01PID33\_AbsBaroPres m51 : 31|8@0+ (1,0) [0|255] "kPa" Vector\_\_XXX

SG\_ S01PID34\_OxySensor1\_FAER m52 : 31|16@0+ (3.0517578125E-005,0) [0|2] "ratio" Vector\_\_XXX

SG\_ S01PID34\_OxySensor1\_Crnt m52 : 47|16@0+ (0.00390625,-128) [-128|128] "mA" Vector\_\_XXX

SG\_ S01PID35\_OxySensor2\_FAER m53 : 31|16@0+ (3.0517578125E-005,0) [0|2] "ratio" Vector\_\_XXX

SG\_ S01PID35\_OxySensor2\_Crnt m53 : 47|16@0+ (0.00390625,-128) [-128|128] "mA" Vector\_\_XXX

SG\_ S01PID36\_OxySensor3\_FAER m54 : 31|16@0+ (3.0517578125E-005,0) [0|2] "ratio" Vector\_\_XXX

SG\_ S01PID36\_OxySensor3\_Crnt m54 : 47|16@0+ (0.00390625,-128) [-128|128] "mA" Vector\_\_XXX

SG\_ S01PID37\_OxySensor4\_FAER m55 : 31|16@0+ (3.0517578125E-005,0) [0|2] "ratio" Vector\_\_XXX

SG\_ S01PID37\_OxySensor4\_Crnt m55 : 47|16@0+ (0.00390625,-128) [-128|128] "mA" Vector\_\_XXX

SG\_ S01PID38\_OxySensor5\_FAER m56 : 31|16@0+ (3.0517578125E-005,0) [0|2] "ratio" Vector\_\_XXX

SG\_ S01PID38\_OxySensor5\_Crnt m56 : 47|16@0+ (0.00390625,-128) [-128|128] "mA" Vector\_\_XXX

SG\_ S01PID39\_OxySensor6\_FAER m57 : 31|16@0+ (3.0517578125E-005,0) [0|2] "ratio" Vector\_\_XXX

SG\_ S01PID39\_OxySensor6\_Crnt m57 : 47|16@0+ (0.00390625,-128) [-128|128] "mA" Vector\_\_XXX

SG\_ S01PID3A\_OxySensor7\_FAER m58 : 31|16@0+ (3.0517578125E-005,0) [0|2] "ratio" Vector\_\_XXX

SG\_ S01PID3A\_OxySensor7\_Crnt m58 : 47|16@0+ (0.00390625,-128) [-128|128] "mA" Vector\_\_XXX

SG\_ S01PID3B\_OxySensor8\_FAER m59 : 31|16@0+ (3.0517578125E-005,0) [0|2] "ratio" Vector\_\_XXX

SG\_ S01PID3B\_OxySensor8\_Crnt m59 : 47|16@0+ (0.00390625,-128) [-128|128] "mA" Vector\_\_XXX

SG\_ S01PID3C\_CatTempBank1Sens1 m60 : 31|16@0+ (0.1,-40) [-40|6513.5] "degC" Vector\_\_XXX

SG\_ S01PID3D\_CatTempBank2Sens1 m61 : 31|16@0+ (0.1,-40) [-40|6513.5] "degC" Vector\_\_XXX

SG\_ S01PID3E\_CatTempBank1Sens2 m62 : 31|16@0+ (0.1,-40) [-40|6513.5] "degC" Vector\_\_XXX

SG\_ S01PID3F\_CatTempBank2Sens2 m63 : 31|16@0+ (0.1,-40) [-40|6513.5] "degC" Vector\_\_XXX

SG\_ S01PID40\_PIDsSupported\_41\_60 m64 : 31|32@0+ (1,0) [0|4294967295] "" Vector\_\_XXX

SG\_ S01PID41\_MonStatusDriveCycle m65 : 31|32@0+ (1,0) [0|4294967295] "" Vector\_\_XXX

SG\_ S01PID42\_ControlModuleVolt m66 : 31|16@0+ (0.001,0) [0|65.535] "V" Vector\_\_XXX

SG\_ S01PID43\_AbsLoadValue m67 : 31|16@0+ (0.392156862745098,0) [0|25700] "%" Vector\_\_XXX

SG\_ S01PID44\_FuelAirCmdEquiv m68 : 31|16@0+ (3.0517578125E-005,0) [0|2] "ratio" Vector\_\_XXX

SG\_ S01PID45\_RelThrottlePos m69 : 31|8@0+ (0.392156862745098,0) [0|100] "%" Vector\_\_XXX

SG\_ S01PID46\_AmbientAirTemp m70 : 31|8@0+ (1,-40) [-40|215] "degC" Vector\_\_XXX

SG\_ S01PID47\_AbsThrottlePosB m71 : 31|8@0+ (0.392156862745098,0) [0|100] "%" Vector\_\_XXX

SG\_ S01PID48\_AbsThrottlePosC m72 : 31|8@0+ (0.392156862745098,0) [0|100] "%" Vector\_\_XXX

SG\_ S01PID49\_AbsThrottlePosD m73 : 31|8@0+ (0.392156862745098,0) [0|100] "%" Vector\_\_XXX

SG\_ S01PID4A\_AbsThrottlePosE m74 : 31|8@0+ (0.392156862745098,0) [0|100] "%" Vector\_\_XXX

SG\_ S01PID4B\_AbsThrottlePosF m75 : 31|8@0+ (0.392156862745098,0) [0|100] "%" Vector\_\_XXX

SG\_ S01PID4C\_CmdThrottleAct m76 : 31|8@0+ (0.392156862745098,0) [0|100] "%" Vector\_\_XXX

SG\_ S01PID4D\_TimeRunMILOn m77 : 31|16@0+ (1,0) [0|65535] "minutes" Vector\_\_XXX

SG\_ S01PID4E\_TimeSinceCodeClear m78 : 31|16@0+ (1,0) [0|65535] "minutes" Vector\_\_XXX

SG\_ S01PID4F\_Max\_FAER m79 : 31|8@0+ (1,0) [0|255] "ratio" Vector\_\_XXX

SG\_ S01PID4F\_Max\_OxySensVol m79 : 39|8@0+ (1,0) [0|255] "V" Vector\_\_XXX

SG\_ S01PID4F\_Max\_OxySensCrnt m79 : 47|8@0+ (1,0) [0|255] "mA" Vector\_\_XXX

SG\_ S01PID4F\_Max\_IntManiAbsPres m79 : 55|8@0+ (10,0) [0|2550] "kPa" Vector\_\_XXX

SG\_ S01PID50\_Max\_AirFlowMAF m80 : 31|8@0+ (10,0) [0|2550] "g/s" Vector\_\_XXX

SG\_ S01PID51\_FuelType m81 : 31|8@0+ (1,0) [0|255] "" Vector\_\_XXX

SG\_ S01PID52\_EthanolFuelPct m82 : 31|8@0+ (0.392156862745098,0) [0|100] "%" Vector\_\_XXX

SG\_ S01PID53\_AbsEvapSysVapPres m83 : 31|16@0+ (0.005,0) [0|327.675] "kPa" Vector\_\_XXX

SG\_ S01PID54\_EvapSysVapPres m84 : 31|16@0+ (1,-32767) [-32767|32768] "Pa" Vector\_\_XXX

SG\_ S01PID55\_ShortSecOxyTrimBank1 m85 : 31|8@0+ (0.78125,-100) [-100|99.21875] "%" Vector\_\_XXX

SG\_ S01PID55\_ShortSecOxyTrimBank3 m85 : 39|8@0+ (0.78125,-100) [-100|99.21875] "%" Vector\_\_XXX

SG\_ S01PID56\_LongSecOxyTrimBank1 m86 : 31|8@0+ (0.78125,-100) [-100|99.21875] "%" Vector\_\_XXX

SG\_ S01PID56\_LongSecOxyTrimBank3 m86 : 39|8@0+ (0.78125,-100) [-100|99.21875] "%" Vector\_\_XXX

SG\_ S01PID57\_ShortSecOxyTrimBank2 m87 : 31|8@0+ (0.78125,-100) [-100|99.21875] "%" Vector\_\_XXX

SG\_ S01PID57\_ShortSecOxyTrimBank4 m87 : 39|8@0+ (0.78125,-100) [-100|99.21875] "%" Vector\_\_XXX

SG\_ S01PID58\_LongSecOxyTrimBank2 m88 : 31|8@0+ (0.78125,-100) [-100|99.21875] "%" Vector\_\_XXX

SG\_ S01PID58\_LongSecOxyTrimBank4 m88 : 39|8@0+ (0.78125,-100) [-100|99.21875] "%" Vector\_\_XXX

SG\_ S01PID59\_FuelRailAbsPres m89 : 31|16@0+ (10,0) [0|655350] "kPa" Vector\_\_XXX

SG\_ S01PID5A\_RelAccelPedalPos m90 : 31|8@0+ (0.392156862745098,0) [0|100] "%" Vector\_\_XXX

SG\_ S01PID5B\_HybrBatPackRemLife m91 : 31|8@0+ (0.392156862745098,0) [0|100] "%" Vector\_\_XXX

SG\_ S01PID5C\_EngineOilTemp m92 : 31|8@0+ (1,-40) [-40|215] "degC" Vector\_\_XXX

SG\_ S01PID5D\_FuelInjectionTiming m93 : 31|16@0+ (0.0078125,-210) [-210|301.9921875] "deg" Vector\_\_XXX

SG\_ S01PID5E\_EngineFuelRate m94 : 31|16@0+ (0.05,0) [0|3276.75] "L/h" Vector\_\_XXX

SG\_ S01PID5F\_EmissionReq m95 : 31|8@0+ (1,0) [0|255] "" Vector\_\_XXX

SG\_ S01PID60\_PIDsSupported\_61\_80 m96 : 31|32@0+ (1,0) [0|4294967295] "" Vector\_\_XXX

SG\_ S01PID61\_DemandEngTorqPct m97 : 31|8@0+ (1,-125) [-125|130] "%" Vector\_\_XXX

SG\_ S01PID62\_ActualEngTorqPct m98 : 31|8@0+ (1,-125) [-125|130] "%" Vector\_\_XXX

SG\_ S01PID63\_EngRefTorq m99 : 31|16@0+ (1,0) [0|65535] "Nm" Vector\_\_XXX

SG\_ S01PID64\_EngPctTorq\_Idle m100 : 31|8@0+ (1,-125) [-125|130] "%" Vector\_\_XXX

SG\_ S01PID64\_EngPctTorq\_EP1 m100 : 39|8@0+ (1,-125) [-125|130] "%" Vector\_\_XXX

SG\_ S01PID64\_EngPctTorq\_EP2 m100 : 47|8@0+ (1,-125) [-125|130] "%" Vector\_\_XXX

SG\_ S01PID64\_EngPctTorq\_EP3 m100 : 55|8@0+ (1,-125) [-125|130] "%" Vector\_\_XXX

SG\_ S01PID64\_EngPctTorq\_EP4 m100 : 63|8@0+ (1,-125) [-125|130] "%" Vector\_\_XXX

SG\_ S01PID65\_AuxInputOutput m101 : 31|8@0+ (1,0) [0|255] "" Vector\_\_XXX

SG\_ S01PID66\_MAFSensor m102 : 31|8@0+ (1,0) [0|255] "" Vector\_\_XXX

SG\_ S01PID67\_EngineCoolantTemp m103 : 31|8@0+ (1,0) [0|255] "" Vector\_\_XXX

SG\_ S01PID68\_IntakeAirTempSens m104 : 31|8@0+ (1,0) [0|255] "" Vector\_\_XXX

SG\_ S01PID69\_CmdEGR\_EGRError m105 : 31|8@0+ (1,0) [0|255] "" Vector\_\_XXX

SG\_ S01PID6A\_CmdDieselIntAir m106 : 31|8@0+ (1,0) [0|255] "" Vector\_\_XXX

SG\_ S01PID6B\_ExhaustGasTemp m107 : 31|8@0+ (1,0) [0|255] "" Vector\_\_XXX

SG\_ S01PID6C\_CmdThrottleActRel m108 : 31|8@0+ (1,0) [0|255] "" Vector\_\_XXX

SG\_ S01PID6D\_FuelPresContrSys m109 : 31|8@0+ (1,0) [0|255] "" Vector\_\_XXX

SG\_ S01PID6E\_InjPresContrSys m110 : 31|8@0+ (1,0) [0|255] "" Vector\_\_XXX

SG\_ S01PID6F\_TurboComprPres m111 : 31|8@0+ (1,0) [0|255] "" Vector\_\_XXX

SG\_ S01PID70\_BoostPresCntrl m112 : 31|8@0+ (1,0) [0|255] "" Vector\_\_XXX

SG\_ S01PID80\_PIDsSupported\_81\_A0 m128 : 31|32@0+ (1,0) [0|4294967295] "" Vector\_\_XXX

SG\_ S01PID8E\_EngFrictionPctTorq m142 : 31|8@0+ (1,-125) [-125|130] "%" Vector\_\_XXX

SG\_ S01PIDA0\_PIDsSupported\_A1\_C0 m160 : 31|32@0+ (1,0) [0|4294967295] "" Vector\_\_XXX

SG\_ S01PIDC0\_PIDsSupported\_C1\_E0 m192 : 31|32@0+ (1,0) [0|4294967295] "" Vector\_\_XXX

SG\_ S02PID02\_FreezeDTC m2 : 31|16@0+ (1,0) [0|65535] "" Vector\_\_XXX

SG\_ S01PID m1M : 23|8@0+ (1,0) [0|255] "" Vector\_\_XXX

SG\_ S02PID m2M : 23|8@0+ (1,0) [0|255] "" Vector\_\_XXX

SG\_ Service M : 11|4@0+ (1,0) [0|15] "" Vector\_\_XXX

SG\_ Response : 15|4@0+ (1,0) [0|15] "" Vector\_\_XXX

SG\_ Length : 7|8@0+ (1,0) [0|255] "" Vector\_\_XXX

CM\_ BO\_ 2564485397 "OBD2 0xDA00";

BA\_DEF\_ SG\_ "SignalIgnore" INT 0 1;

BA\_DEF\_ BO\_ "VFrameFormat" ENUM "StandardCAN","ExtendedCAN","StandardCAN\_FD","ExtendedCAN\_FD","J1939PG";

BA\_DEF\_ BO\_ "MessageIgnore" INT 0 1;

BA\_DEF\_ "BusType" STRING ;

BA\_DEF\_ "ProtocolType" STRING ;

BA\_DEF\_ "DatabaseCompiler" STRING ;

BA\_DEF\_DEF\_ "SignalIgnore" 0;

BA\_DEF\_DEF\_ "VFrameFormat" "";

BA\_DEF\_DEF\_ "MessageIgnore" 0;

BA\_DEF\_DEF\_ "BusType" "";

BA\_DEF\_DEF\_ "ProtocolType" "";

BA\_DEF\_DEF\_ "DatabaseCompiler" "CSS Electronics (wwww.csselectronics.com)";

BA\_ "BusType" "CAN";

BA\_ "ProtocolType" "OBD";

BA\_ "VFrameFormat" BO\_ 2564485397 4;

BA\_ "SignalIgnore" SG\_ 2564485397 S01PID 1;

BA\_ "SignalIgnore" SG\_ 2564485397 S02PID 1;

BA\_ "SignalIgnore" SG\_ 2564485397 Service 1;

BA\_ "SignalIgnore" SG\_ 2564485397 Response 1;

BA\_ "SignalIgnore" SG\_ 2564485397 Length 1;

VAL\_ 2564485397 S01PID03\_FuelSystemStatus 1 "Open loop (insuff. eng. temp.)" 2 "Closed loop (oxy sens)" 4 "Open loop (eng. load, fuel cut)" 8 "Open loop (system failure)" 16 "Closed loop (feedback issue)" ;

VAL\_ 2564485397 S01PID12\_CmdSecAirStatus 1 "Upstream" 2 "Downstream catalytic conv" 4 "From outside atmosphere/off" 8 "Pump cmd on for diagn." ;

VAL\_ 2564485397 S01PID1C\_OBDStandard 1 "OBD-II as defined by the CARB" 2 "OBD as defined by the EPA" 3 "OBD and OBD-II" 4 "OBD-I" 5 "Not OBD compliant" 6 "EOBD (Europe)" 7 "EOBD and OBD-II" 8 "EOBD and OBD" 9 "EOBD, OBD and OBD II" 10 "JOBD (Japan)" 11 "JOBD and OBD II" 12 "JOBD and EOBD" 13 "JOBD, EOBD, and OBD II" 14 "Reserved" 15 "Reserved" 16 "Reserved" 17 "Eng. Manu. Diag. (EMD)" 18 "EMD Enhanced (EMD+)" 19 "HD OBD-C" 20 "HD OBD" 21 "WWH OBD" 22 "Reserved" 23 "HD EOBD-I" 24 "HD EOBD-I N" 25 "HD EOBD-II" 26 "HD EOBD-II N" 27 "Reserved" 28 "OBDBr-1" 29 "OBDBr-2" 30 "KOBD" 31 "IOBD I" 32 "IOBD II" 33 "HD EOBD-IV" 34 "Reserved" 35 "Reserved" ;

VAL\_ 2564485397 S01PID51\_FuelType 0 "Not available" 1 "Gasoline" 2 "Methanol" 3 "Ethanol" 4 "Diesel" 5 "LPG" 6 "CNG" 7 "Propane" 8 "Electric" 9 "Bifuel running Gasoline" 10 "Bifuel running Methanol" 11 "Bifuel running Ethanol" 12 "Bifuel running LPG" 13 "Bifuel running CNG" 14 "Bifuel running Propane" 15 "Bifuel running Electricity" 16 "Bifuel electric/comb. eng." 17 "Hybrid gasoline" 18 "Hybrid Ethanol" 19 "Hybrid Diesel" 20 "Hybrid Electric" 21 "Hybrid running electric/comb." 22 "Hybrid Regenerative" 23 "Bifuel running diesel" ;

VAL\_ 2564485397 S01PID 0 "S01PID00\_PIDsSupported\_01\_20" 1 "S01PID01\_MonitorStatus" 2 "S01PID02\_FreezeDTC" 3 "S01PID03\_FuelSystemStatus" 4 "S01PID04\_CalcEngineLoad" 5 "S01PID05\_EngineCoolantTemp" 6 "S01PID06\_ShortFuelTrimBank1" 7 "S01PID07\_LongFuelTrimBank1" 8 "S01PID08\_ShortFuelTrimBank2" 9 "S01PID09\_LongFuelTrimBank2" 10 "S01PID0A\_FuelPressure" 11 "S01PID0B\_IntakeManiAbsPress" 12 "S01PID0C\_EngineRPM" 13 "S01PID0D\_VehicleSpeed" 14 "S01PID0E\_TimingAdvance" 15 "S01PID0F\_IntakeAirTemperature" 16 "S01PID10\_MAFAirFlowRate" 17 "S01PID11\_ThrottlePosition" 18 "S01PID12\_CmdSecAirStatus" 20 "S01PID14\_OxySensor1" 21 "S01PID15\_OxySensor2" 22 "S01PID16\_OxySensor3" 23 "S01PID17\_OxySensor4" 24 "S01PID18\_OxySensor5" 25 "S01PID19\_OxySensor6" 26 "S01PID1A\_OxySensor7" 27 "S01PID1B\_OxySensor8" 28 "S01PID1C\_OBDStandard" 31 "S01PID1F\_TimeSinceEngStart" 32 "S01PID20\_PIDsSupported\_21\_40" 33 "S01PID21\_DistanceMILOn" 34 "S01PID22\_FuelRailPres" 35 "S01PID23\_FuelRailGaug" 36 "S01PID24\_OxySensor1" 37 "S01PID25\_OxySensor2" 38 "S01PID26\_OxySensor3" 39 "S01PID27\_OxySensor4" 40 "S01PID28\_OxySensor5" 41 "S01PID29\_OxySensor6" 42 "S01PID2A\_OxySensor7" 43 "S01PID2B\_OxySensor8" 44 "S01PID2C\_CmdEGR" 45 "S01PID2D\_EGRError" 46 "S01PID2E\_CmdEvapPurge" 47 "S01PID2F\_FuelTankLevel" 48 "S01PID30\_WarmUpsSinceCodeClear" 49 "S01PID31\_DistanceSinceCodeClear" 50 "S01PID32\_EvapSysVaporPres" 51 "S01PID33\_AbsBaroPres" 52 "S01PID34\_OxySensor1" 53 "S01PID35\_OxySensor2" 54 "S01PID36\_OxySensor3" 55 "S01PID37\_OxySensor4" 56 "S01PID38\_OxySensor5" 57 "S01PID39\_OxySensor6" 58 "S01PID3A\_OxySensor7" 59 "S01PID3B\_OxySensor8" 60 "S01PID3C\_CatTempBank1Sens1" 61 "S01PID3D\_CatTempBank2Sens1" 62 "S01PID3E\_CatTempBank1Sens2" 63 "S01PID3F\_CatTempBank2Sens2" 64 "S01PID40\_PIDsSupported\_41\_60" 65 "S01PID41\_MonStatusDriveCycle" 66 "S01PID42\_ControlModuleVolt" 67 "S01PID43\_AbsLoadValue" 68 "S01PID44\_FuelAirCmdEquiv" 69 "S01PID45\_RelThrottlePos" 70 "S01PID46\_AmbientAirTemp" 71 "S01PID47\_AbsThrottlePosB" 72 "S01PID48\_AbsThrottlePosC" 73 "S01PID49\_AbsThrottlePosD" 74 "S01PID4A\_AbsThrottlePosE" 75 "S01PID4B\_AbsThrottlePosF" 76 "S01PID4C\_CmdThrottleAct" 77 "S01PID4D\_TimeRunMILOn" 78 "S01PID4E\_TimeSinceCodeClear" 79 "S01PID4F\_MaxMultiple" 80 "S01PID50\_Max\_AirFlowMAF" 81 "S01PID51\_FuelType" 82 "S01PID52\_EthanolFuelPct" 83 "S01PID53\_AbsEvapSysVapPres" 84 "S01PID54\_EvapSysVapPres" 85 "S01PID55\_ShortSecOxyTrimBankX" 86 "S01PID56\_LongSecOxyTrimBankX" 87 "S01PID57\_ShortSecOxyTrimBankX" 88 "S01PID58\_LongSecOxyTrimBankX" 89 "S01PID59\_FuelRailAbsPres" 90 "S01PID5A\_RelAccelPedalPos" 91 "S01PID5B\_HybrBatPackRemLife" 92 "S01PID5C\_EngineOilTemp" 93 "S01PID5D\_FuelInjectionTiming" 94 "S01PID5E\_EngineFuelRate" 95 "S01PID5F\_EmissionReq" 96 "S01PID60\_PIDsSupported\_61\_80" 97 "S01PID61\_DemandEngTorqPct" 98 "S01PID62\_ActualEngTorqPct" 99 "S01PID63\_EngRefTorq" 100 "S01PID64\_EngPctTorq" 101 "S01PID65\_AuxInputOutput" 102 "S01PID66\_MAFSensor" 103 "S01PID67\_EngineCoolantTemp" 104 "S01PID68\_IntakeAirTempSens" 105 "S01PID69\_CmdEGR\_EGRError" 106 "S01PID6A\_CmdDieselIntAir" 107 "S01PID6B\_ExhaustGasTemp" 108 "S01PID6C\_CmdThrottleActRel" 109 "S01PID6D\_FuelPresContrSys" 110 "S01PID6E\_InjPresContrSys" 111 "S01PID6F\_TurboComprPres" 112 "S01PID70\_BoostPresCntrl" 128 "S01PID80\_PIDsSupported\_81\_A0" 142 "S01PID8E\_EngFrictionPctTorq" 160 "S01PIDA0\_PIDsSupported\_A1\_C0" 192 "S01PIDC0\_PIDsSupported\_C1\_E0" ;

VAL\_ 2564485397 S02PID 2 "S02PID02\_FreezeDTC" ;

VAL\_ 2564485397 Service 10 "Permanent DTCs (Cleared DTCs) " 9 "Request vehicle information " 8 "Control on-board system " 7 "Show pending DTCs " 6 "Other system monitoring " 5 "Oxygen sensor monitoring " 4 "Clear DTCs and stored values" 3 "Show stored DTCs " 2 "Show freeze frame data " 1 "Show current data " ;

SG\_MUL\_VAL\_ 2564485397 S01PID00\_PIDsSupported\_01\_20 S01PID 0-0;

SG\_MUL\_VAL\_ 2564485397 S01PID01\_MonitorStatus S01PID 1-1;

SG\_MUL\_VAL\_ 2564485397 S01PID02\_FreezeDTC S01PID 2-2;

SG\_MUL\_VAL\_ 2564485397 S01PID03\_FuelSystemStatus S01PID 3-3;

SG\_MUL\_VAL\_ 2564485397 S01PID04\_CalcEngineLoad S01PID 4-4;

SG\_MUL\_VAL\_ 2564485397 S01PID05\_EngineCoolantTemp S01PID 5-5;

SG\_MUL\_VAL\_ 2564485397 S01PID06\_ShortFuelTrimBank1 S01PID 6-6;

SG\_MUL\_VAL\_ 2564485397 S01PID07\_LongFuelTrimBank1 S01PID 7-7;

SG\_MUL\_VAL\_ 2564485397 S01PID08\_ShortFuelTrimBank2 S01PID 8-8;

SG\_MUL\_VAL\_ 2564485397 S01PID09\_LongFuelTrimBank2 S01PID 9-9;

SG\_MUL\_VAL\_ 2564485397 S01PID0A\_FuelPressure S01PID 10-10;

SG\_MUL\_VAL\_ 2564485397 S01PID0B\_IntakeManiAbsPress S01PID 11-11;

SG\_MUL\_VAL\_ 2564485397 S01PID0C\_EngineRPM S01PID 12-12;

SG\_MUL\_VAL\_ 2564485397 S01PID0D\_VehicleSpeed S01PID 13-13;

SG\_MUL\_VAL\_ 2564485397 S01PID0E\_TimingAdvance S01PID 14-14;

SG\_MUL\_VAL\_ 2564485397 S01PID0F\_IntakeAirTemperature S01PID 15-15;

SG\_MUL\_VAL\_ 2564485397 S01PID10\_MAFAirFlowRate S01PID 16-16;

SG\_MUL\_VAL\_ 2564485397 S01PID11\_ThrottlePosition S01PID 17-17;

SG\_MUL\_VAL\_ 2564485397 S01PID12\_CmdSecAirStatus S01PID 18-18;

SG\_MUL\_VAL\_ 2564485397 S01PID14\_OxySensor1\_Volt S01PID 20-20;

SG\_MUL\_VAL\_ 2564485397 S01PID14\_OxySensor1\_STFT S01PID 20-20;

SG\_MUL\_VAL\_ 2564485397 S01PID15\_OxySensor2\_Volt S01PID 21-21;

SG\_MUL\_VAL\_ 2564485397 S01PID15\_OxySensor2\_STFT S01PID 21-21;

SG\_MUL\_VAL\_ 2564485397 S01PID16\_OxySensor3\_Volt S01PID 22-22;

SG\_MUL\_VAL\_ 2564485397 S01PID16\_OxySensor3\_STFT S01PID 22-22;

SG\_MUL\_VAL\_ 2564485397 S01PID17\_OxySensor4\_Volt S01PID 23-23;

SG\_MUL\_VAL\_ 2564485397 S01PID17\_OxySensor4\_STFT S01PID 23-23;

SG\_MUL\_VAL\_ 2564485397 S01PID18\_OxySensor5\_Volt S01PID 24-24;

SG\_MUL\_VAL\_ 2564485397 S01PID18\_OxySensor5\_STFT S01PID 24-24;

SG\_MUL\_VAL\_ 2564485397 S01PID19\_OxySensor6\_Volt S01PID 25-25;

SG\_MUL\_VAL\_ 2564485397 S01PID19\_OxySensor6\_STFT S01PID 25-25;

SG\_MUL\_VAL\_ 2564485397 S01PID1A\_OxySensor7\_Volt S01PID 26-26;

SG\_MUL\_VAL\_ 2564485397 S01PID1A\_OxySensor7\_STFT S01PID 26-26;

SG\_MUL\_VAL\_ 2564485397 S01PID1B\_OxySensor8\_Volt S01PID 27-27;

SG\_MUL\_VAL\_ 2564485397 S01PID1B\_OxySensor8\_STFT S01PID 27-27;

SG\_MUL\_VAL\_ 2564485397 S01PID1C\_OBDStandard S01PID 28-28;

SG\_MUL\_VAL\_ 2564485397 S01PID1F\_TimeSinceEngStart S01PID 31-31;

SG\_MUL\_VAL\_ 2564485397 S01PID20\_PIDsSupported\_21\_40 S01PID 32-32;

SG\_MUL\_VAL\_ 2564485397 S01PID21\_DistanceMILOn S01PID 33-33;

SG\_MUL\_VAL\_ 2564485397 S01PID22\_FuelRailPres S01PID 34-34;

SG\_MUL\_VAL\_ 2564485397 S01PID23\_FuelRailGaug S01PID 35-35;

SG\_MUL\_VAL\_ 2564485397 S01PID24\_OxySensor1\_FAER S01PID 36-36;

SG\_MUL\_VAL\_ 2564485397 S01PID24\_OxySensor1\_Volt S01PID 36-36;

SG\_MUL\_VAL\_ 2564485397 S01PID25\_OxySensor2\_FAER S01PID 37-37;

SG\_MUL\_VAL\_ 2564485397 S01PID25\_OxySensor2\_Volt S01PID 37-37;

SG\_MUL\_VAL\_ 2564485397 S01PID26\_OxySensor3\_FAER S01PID 38-38;

SG\_MUL\_VAL\_ 2564485397 S01PID26\_OxySensor3\_Volt S01PID 38-38;

SG\_MUL\_VAL\_ 2564485397 S01PID27\_OxySensor4\_FAER S01PID 39-39;

SG\_MUL\_VAL\_ 2564485397 S01PID27\_OxySensor4\_Volt S01PID 39-39;

SG\_MUL\_VAL\_ 2564485397 S01PID28\_OxySensor5\_FAER S01PID 40-40;

SG\_MUL\_VAL\_ 2564485397 S01PID28\_OxySensor5\_Volt S01PID 40-40;

SG\_MUL\_VAL\_ 2564485397 S01PID29\_OxySensor6\_FAER S01PID 41-41;

SG\_MUL\_VAL\_ 2564485397 S01PID29\_OxySensor6\_Volt S01PID 41-41;

SG\_MUL\_VAL\_ 2564485397 S01PID2A\_OxySensor7\_FAER S01PID 42-42;

SG\_MUL\_VAL\_ 2564485397 S01PID2A\_OxySensor7\_Volt S01PID 42-42;

SG\_MUL\_VAL\_ 2564485397 S01PID2B\_OxySensor8\_FAER S01PID 43-43;

SG\_MUL\_VAL\_ 2564485397 S01PID2B\_OxySensor8\_Volt S01PID 43-43;

SG\_MUL\_VAL\_ 2564485397 S01PID2C\_CmdEGR S01PID 44-44;

SG\_MUL\_VAL\_ 2564485397 S01PID2D\_EGRError S01PID 45-45;

SG\_MUL\_VAL\_ 2564485397 S01PID2E\_CmdEvapPurge S01PID 46-46;

SG\_MUL\_VAL\_ 2564485397 S01PID2F\_FuelTankLevel S01PID 47-47;

SG\_MUL\_VAL\_ 2564485397 S01PID30\_WarmUpsSinceCodeClear S01PID 48-48;

SG\_MUL\_VAL\_ 2564485397 S01PID31\_DistanceSinceCodeClear S01PID 49-49;

SG\_MUL\_VAL\_ 2564485397 S01PID32\_EvapSysVaporPres S01PID 50-50;

SG\_MUL\_VAL\_ 2564485397 S01PID33\_AbsBaroPres S01PID 51-51;

SG\_MUL\_VAL\_ 2564485397 S01PID34\_OxySensor1\_FAER S01PID 52-52;

SG\_MUL\_VAL\_ 2564485397 S01PID34\_OxySensor1\_Crnt S01PID 52-52;

SG\_MUL\_VAL\_ 2564485397 S01PID35\_OxySensor2\_FAER S01PID 53-53;

SG\_MUL\_VAL\_ 2564485397 S01PID35\_OxySensor2\_Crnt S01PID 53-53;

SG\_MUL\_VAL\_ 2564485397 S01PID36\_OxySensor3\_FAER S01PID 54-54;

SG\_MUL\_VAL\_ 2564485397 S01PID36\_OxySensor3\_Crnt S01PID 54-54;

SG\_MUL\_VAL\_ 2564485397 S01PID37\_OxySensor4\_FAER S01PID 55-55;

SG\_MUL\_VAL\_ 2564485397 S01PID37\_OxySensor4\_Crnt S01PID 55-55;

SG\_MUL\_VAL\_ 2564485397 S01PID38\_OxySensor5\_FAER S01PID 56-56;

SG\_MUL\_VAL\_ 2564485397 S01PID38\_OxySensor5\_Crnt S01PID 56-56;

SG\_MUL\_VAL\_ 2564485397 S01PID39\_OxySensor6\_FAER S01PID 57-57;

SG\_MUL\_VAL\_ 2564485397 S01PID39\_OxySensor6\_Crnt S01PID 57-57;

SG\_MUL\_VAL\_ 2564485397 S01PID3A\_OxySensor7\_FAER S01PID 58-58;

SG\_MUL\_VAL\_ 2564485397 S01PID3A\_OxySensor7\_Crnt S01PID 58-58;

SG\_MUL\_VAL\_ 2564485397 S01PID3B\_OxySensor8\_FAER S01PID 59-59;

SG\_MUL\_VAL\_ 2564485397 S01PID3B\_OxySensor8\_Crnt S01PID 59-59;

SG\_MUL\_VAL\_ 2564485397 S01PID3C\_CatTempBank1Sens1 S01PID 60-60;

SG\_MUL\_VAL\_ 2564485397 S01PID3D\_CatTempBank2Sens1 S01PID 61-61;

SG\_MUL\_VAL\_ 2564485397 S01PID3E\_CatTempBank1Sens2 S01PID 62-62;

SG\_MUL\_VAL\_ 2564485397 S01PID3F\_CatTempBank2Sens2 S01PID 63-63;

SG\_MUL\_VAL\_ 2564485397 S01PID40\_PIDsSupported\_41\_60 S01PID 64-64;

SG\_MUL\_VAL\_ 2564485397 S01PID41\_MonStatusDriveCycle S01PID 65-65;

SG\_MUL\_VAL\_ 2564485397 S01PID42\_ControlModuleVolt S01PID 66-66;

SG\_MUL\_VAL\_ 2564485397 S01PID43\_AbsLoadValue S01PID 67-67;

SG\_MUL\_VAL\_ 2564485397 S01PID44\_FuelAirCmdEquiv S01PID 68-68;

SG\_MUL\_VAL\_ 2564485397 S01PID45\_RelThrottlePos S01PID 69-69;

SG\_MUL\_VAL\_ 2564485397 S01PID46\_AmbientAirTemp S01PID 70-70;

SG\_MUL\_VAL\_ 2564485397 S01PID47\_AbsThrottlePosB S01PID 71-71;

SG\_MUL\_VAL\_ 2564485397 S01PID48\_AbsThrottlePosC S01PID 72-72;

SG\_MUL\_VAL\_ 2564485397 S01PID49\_AbsThrottlePosD S01PID 73-73;

SG\_MUL\_VAL\_ 2564485397 S01PID4A\_AbsThrottlePosE S01PID 74-74;

SG\_MUL\_VAL\_ 2564485397 S01PID4B\_AbsThrottlePosF S01PID 75-75;

SG\_MUL\_VAL\_ 2564485397 S01PID4C\_CmdThrottleAct S01PID 76-76;

SG\_MUL\_VAL\_ 2564485397 S01PID4D\_TimeRunMILOn S01PID 77-77;

SG\_MUL\_VAL\_ 2564485397 S01PID4E\_TimeSinceCodeClear S01PID 78-78;

SG\_MUL\_VAL\_ 2564485397 S01PID4F\_Max\_FAER S01PID 79-79;

SG\_MUL\_VAL\_ 2564485397 S01PID4F\_Max\_OxySensVol S01PID 79-79;

SG\_MUL\_VAL\_ 2564485397 S01PID4F\_Max\_OxySensCrnt S01PID 79-79;

SG\_MUL\_VAL\_ 2564485397 S01PID4F\_Max\_IntManiAbsPres S01PID 79-79;

SG\_MUL\_VAL\_ 2564485397 S01PID50\_Max\_AirFlowMAF S01PID 80-80;

SG\_MUL\_VAL\_ 2564485397 S01PID51\_FuelType S01PID 81-81;

SG\_MUL\_VAL\_ 2564485397 S01PID52\_EthanolFuelPct S01PID 82-82;

SG\_MUL\_VAL\_ 2564485397 S01PID53\_AbsEvapSysVapPres S01PID 83-83;

SG\_MUL\_VAL\_ 2564485397 S01PID54\_EvapSysVapPres S01PID 84-84;

SG\_MUL\_VAL\_ 2564485397 S01PID55\_ShortSecOxyTrimBank1 S01PID 85-85;

SG\_MUL\_VAL\_ 2564485397 S01PID55\_ShortSecOxyTrimBank3 S01PID 85-85;

SG\_MUL\_VAL\_ 2564485397 S01PID56\_LongSecOxyTrimBank1 S01PID 86-86;

SG\_MUL\_VAL\_ 2564485397 S01PID56\_LongSecOxyTrimBank3 S01PID 86-86;

SG\_MUL\_VAL\_ 2564485397 S01PID57\_ShortSecOxyTrimBank2 S01PID 87-87;

SG\_MUL\_VAL\_ 2564485397 S01PID57\_ShortSecOxyTrimBank4 S01PID 87-87;

SG\_MUL\_VAL\_ 2564485397 S01PID58\_LongSecOxyTrimBank2 S01PID 88-88;

SG\_MUL\_VAL\_ 2564485397 S01PID58\_LongSecOxyTrimBank4 S01PID 88-88;

SG\_MUL\_VAL\_ 2564485397 S01PID59\_FuelRailAbsPres S01PID 89-89;

SG\_MUL\_VAL\_ 2564485397 S01PID5A\_RelAccelPedalPos S01PID 90-90;

SG\_MUL\_VAL\_ 2564485397 S01PID5B\_HybrBatPackRemLife S01PID 91-91;

SG\_MUL\_VAL\_ 2564485397 S01PID5C\_EngineOilTemp S01PID 92-92;

SG\_MUL\_VAL\_ 2564485397 S01PID5D\_FuelInjectionTiming S01PID 93-93;

SG\_MUL\_VAL\_ 2564485397 S01PID5E\_EngineFuelRate S01PID 94-94;

SG\_MUL\_VAL\_ 2564485397 S01PID5F\_EmissionReq S01PID 95-95;

SG\_MUL\_VAL\_ 2564485397 S01PID60\_PIDsSupported\_61\_80 S01PID 96-96;

SG\_MUL\_VAL\_ 2564485397 S01PID61\_DemandEngTorqPct S01PID 97-97;

SG\_MUL\_VAL\_ 2564485397 S01PID62\_ActualEngTorqPct S01PID 98-98;

SG\_MUL\_VAL\_ 2564485397 S01PID63\_EngRefTorq S01PID 99-99;

SG\_MUL\_VAL\_ 2564485397 S01PID64\_EngPctTorq\_Idle S01PID 100-100;

SG\_MUL\_VAL\_ 2564485397 S01PID64\_EngPctTorq\_EP1 S01PID 100-100;

SG\_MUL\_VAL\_ 2564485397 S01PID64\_EngPctTorq\_EP2 S01PID 100-100;

SG\_MUL\_VAL\_ 2564485397 S01PID64\_EngPctTorq\_EP3 S01PID 100-100;

SG\_MUL\_VAL\_ 2564485397 S01PID64\_EngPctTorq\_EP4 S01PID 100-100;

SG\_MUL\_VAL\_ 2564485397 S01PID65\_AuxInputOutput S01PID 101-101;

SG\_MUL\_VAL\_ 2564485397 S01PID66\_MAFSensor S01PID 102-102;

SG\_MUL\_VAL\_ 2564485397 S01PID67\_EngineCoolantTemp S01PID 103-103;

SG\_MUL\_VAL\_ 2564485397 S01PID68\_IntakeAirTempSens S01PID 104-104;

SG\_MUL\_VAL\_ 2564485397 S01PID69\_CmdEGR\_EGRError S01PID 105-105;

SG\_MUL\_VAL\_ 2564485397 S01PID6A\_CmdDieselIntAir S01PID 106-106;

SG\_MUL\_VAL\_ 2564485397 S01PID6B\_ExhaustGasTemp S01PID 107-107;

SG\_MUL\_VAL\_ 2564485397 S01PID6C\_CmdThrottleActRel S01PID 108-108;

SG\_MUL\_VAL\_ 2564485397 S01PID6D\_FuelPresContrSys S01PID 109-109;

SG\_MUL\_VAL\_ 2564485397 S01PID6E\_InjPresContrSys S01PID 110-110;

SG\_MUL\_VAL\_ 2564485397 S01PID6F\_TurboComprPres S01PID 111-111;

SG\_MUL\_VAL\_ 2564485397 S01PID70\_BoostPresCntrl S01PID 112-112;

SG\_MUL\_VAL\_ 2564485397 S01PID80\_PIDsSupported\_81\_A0 S01PID 128-128;

SG\_MUL\_VAL\_ 2564485397 S01PID8E\_EngFrictionPctTorq S01PID 142-142;

SG\_MUL\_VAL\_ 2564485397 S01PIDA0\_PIDsSupported\_A1\_C0 S01PID 160-160;

SG\_MUL\_VAL\_ 2564485397 S01PIDC0\_PIDsSupported\_C1\_E0 S01PID 192-192;

SG\_MUL\_VAL\_ 2564485397 S02PID02\_FreezeDTC S02PID 2-2;

SG\_MUL\_VAL\_ 2564485397 S01PID Service 1-1;

SG\_MUL\_VAL\_ 2564485397 S02PID Service 2-2;