Maptuner®X Diagnostics Compatibility

Monitoring and Datalogger

Displayed name	Name/Value	Unit	Sea-Doo Can-Am Bosch	Can-Am Siemens	Ski-Doo Lynx ETEC 250 500	Sea-Doo Siemens	Yamaha PWC	Yamaha Outboard (TBD.)	Yamaha UTV/ATV	Yamaha Sidewinder/ Arctic Cat ZR9000 (Genesis 998)	Kawasaki Ultra 310	Kawasaki SX-R	Note
IntakeAirTemp	Intake Air Teperature	C	o	o	o	o	o	o	o	o	o	o	
EngineRPM	Engine Speed	1/min	o	o	o	o	o	o	o	o	o	o	
WaterCoolantTemp	Engine Water Temperature	°C (*)	o	o	o	o	o	o	o	o	o	o	
AtmosphericPressure	Atmospheric Absolute pressure	kPa (*)			o				o	o	o	o	
ThrottlePosition	Throttle Position Sensor	V							o	o	o	o	
ManifoldAbsolutPressure	Manifold Absolute pressure	kPa (*)	o	o		o	o	o		o	o	o	
OilTemp	Oil Temperature	°C (*)	o								o	o	
CamshaftFail		times									o	o	
Coil1Fail		times									o	o	
Coil2Fail		times									o	o	
FaultCount		times									o	o	
FuelPump1Fail		times									o	o	
HighOilTempWarning		times									o	o	
HighWaterTempWarning		times									o	o	
InletPressureFail		times									o	o	
InletTempFail		times									o	o	
OperatingHour		hour									o	o	
OperatingHour		min									o	o	
ThrottleFail		times									o	o	
WaterTempFail		times									o	o	
VehicleDownFail		times									o	o	
VehicleDownFail		V									o	o	
VoltageFail		times									o	o	
BatteryVoltage	Battery Voltage	V	o	o	o	o	o	o	o	o	o		
VehicleSpeed	Vehicle Speed	km/h (*)	o						o	o	o		
CrankshaftFail		times									o		
ECUFail		times									o		
ETVFail		times									o		
FuelPump2Fail		times									o		
GPSFail		times									o		
HighAirTempWarning		times									o		
ImmobilizerFail		times									o		
Knock		times									o		
KnockSensorFail		V									o		
KnockSensorFail		times									o		
LowOilPressureWarning		times									o		
MainRelayFail		times									o		
NonRegKeyFail		times									o		
OilTempFail		times									o		
PedalPos		V									o		
ReturnSpringFail		times									o		
SpeedFail		times									o		
SuperchargerSensorFail		times									o		
SystemRelayFail		times									o		
TrimPosFail		times									o		
TrimPosVoltage		V									o		
IgnitionTiming	Ignition angle	deg	o				o	o	o	o			
AccelerationPosition	Acceleration sensor	deg							o	o			
AccelerationPosition	Acceleration sensor	V							o	o			
BrakeSwitch									o	o			
FaultDetection									o	o			
GearPosition	Gear position								o				
IntakeAirPressureSensor1		kPa							o	o			
IntakeAirPressureSensor2		kPa							o	o			
ISCValue		%							o	o			
LeanAngleSensorOrOilPressureSensor		V							o	o			
Mode									o	o			
NumberofFaultDetection		count							o	o			
O2Sensor1Voltage		V							o	o			
O2Sensor2Voltage		V							o	o			
O2SensorFuelTrim		%							o	o			
OilPressureSwitch									o	o			
OverrideSwitch									o	o			
ParkingBrakeSwitch									o	o			
ThrottlePosition	Throttle Position Sensor	deg							o	o			
ThrottleSwitch									o	o			
FuelInjectionDuration	Fuel injection duration	ms					o	o	o	o			
ThrottlePosition	Throttle Position Sensor	%	o	o	o	o	o	o		o			
AccelerationPosition	Accel. Position Sensor	°					o	o					
ExhaustWaterTemp	Exhaust Water Temperature	°C (*)	o		o	o							
NoiceLevel	Noice Level (Knock)	*			o	o							
IACVPosition	IACV Position	*		o		o							
Idle	Idle Status	*				o							Bit 1 (0x01) Idle on
Status	Status (see note)	*				o							Bit 1 (0x01) = Low Oil Pressure, (Green) if not set it is gray Bit 4 (0x08) = Start Button (Green) if not set it is gray Bit 5 (0x10) = Engine Stop Switch (Red) green always if not set Bit 6 (0x20) = Dess switch green, if not it is red
DESS_Status	Status of Keys	*			o								1 = good key 2 = Learning key 1 3 = Learning key 2 4 = Factory key 90 = Key not present
Primary12VCircuit	Voltage Primare Circuit	V			o								
RavePos	Rave Actual Position	*			o								
StartRERButton	Start/RER button	*			o								bit 1 (0x01) = active
Status	Status (see note)	*			o								Bit 1 (0x01) Idle - green (grey from beginning) Bit 2 (0x02) Low Oil - green (grey from beginning) Bit 3 (0x04) Dess switch grey (green from beginning) Bit 4 (0x08) Engine Stop switch red (green from beginning)
GearPosition	Gear position			o						o			0 = error 1 = (H)High 2 = (L)Low 8 = (R) Reverse 0x10 = Park
LimpHome	Limp home status			o									0 = no limphome, all other = limphome
Stop_NO_Key	Stop No Key			o									bit 1 = 1 , Stop/No Key on
DesiredLambda	Desired Lambda request from ECU	Lambda	o										
IgnCyl1	Ignition Angle Cylinder 1	deg	o										
IgnCyl2	Ignition Angle Cylinder 2	deg	o										
IgnCyl3	Ignition Angle Cylinder 3	deg	o										
PedalPosition	Pedal Position	%	o										
AirBypassValveSolenoid										o			
Boost										o			
EngineHour	Engine hours									o			
EngineKnockControlRetardAngle										o			
EngineLoad										o			
FuelSystemState										o			
IntakeAirPressureAtManifold		kPa								o			
LongTermFuelTrimLTFT_1		%								o			
LongTermFuelTrimLTFT_2		%								o			
PressureFromTurbo		kPa								o			
ReverseSwitch										o			
SecondaryAirCommandValue										o			
ShiftSelectorSwitch										o			
ShortTermFuelTrimSTFT_1		%								o			
ShortTermFuelTrimSTFT_2		%								o			
TPS_2										o			
WastegateDutyCycle		%								o			
WastegatePressureControlCorrectionValue		%								o			

(*) Values can be changed in MaptunerX settings (**Kpa/BAR/PSI °C/°F km/h MPH**)