V 4.2

AIO Suite

MAP COMPARISON

STANDARD VS PRIME

RSTuner AIO Suite Maps

Disclaimer

Suggested map & trans list are differ slightly due to different software versions per

Here on these maps can be visible through the map editor screen within RSTuner software due to different software versions per ECU

* indicates a lower overlay value

Performance	ADD	AIO_PrIND	Map Trans & Rth Trail	Map Guidance
Engine speed deactivation to prevent overspeed #2				
Engine speed below which the AC is disengaged to gain performance				
Max boost pressure limitation, altitude				
Max boost pressure increase, altitude				
Throttle fully opened indication threshold				
Throttle fully opened indication threshold				
Performance injection and angle for max torque				
Injection end angle to minimize pollution				

Performance Full Load Phase	ADD	AIO_PrIND	Map Trans & Rth Trail	Map Guidance
Full load phase engine speed activation threshold				
Full load phase minimum delay after clutch				
Open loop to full load phase delay				
Max boost pressure limitation full load achieved				
Max boost pressure increase full load conditions				
Gas pedal filtered threshold				
Gas pedal filtered threshold				
Disable full throttle opening				
Disable the postponed loop opening when throttle fully opened				
Map of ok load reducing full load conditions				
Map of manifold pressure reducing full load conditions				

Performance Wastegate Contol	ADD	AIO_PrIND	Map Trans & Rth Trail	Map Guidance
Boost Strategy choice				
Wastegate DC PWM command depending on revs and throttle position				
Wastegate DC PWM command depending on torque				
Wastegate DC PWM command depending on engine revs				
Max boost pressure increase (boost vane)				
Transient distinction (corresponds to an acceleration detection)				

Performance Overboost	ADD	AIO_PrIND	Map Trans & Rth Trail	Map Guidance
Gear authorization for overboost				
Time limitation for the Overboost when full load is active				
Overboost torque limit				
Overboost torque setting				

Performance Evenpeed	ADD	AIO_PrIND	Map Trans & Rth Trail	Map Guidance
Disable torque correction in even-speed zone				
Map of even-speed torque setting				
Maximum correction of engine torque in even-speed zone				

Performance Limit and engine protection	ADD	AIO_PrIND	Map Trans & Rth Trail	Map Guidance
Maximum manifold pressure for injection cut-off				
Maximum level of pressure to protect engine and supercharger				
Maximum level of pressure to protect engine and supercharger				
Rev-indicated Engine Torque increment (torque vector)				
Rev-indicated Engine Torque increment				
Atmospheric pressure torque reduction percentage				

Engine Torque protection	ADD	AIO_PrIND	Map Trans & Rth Trail	Map Guidance
Torque limitation gearbox and clutch				
Torque limitation water temperature				
Torque limitation oil temperature				
Disable torque correction outside the knock zone				
Maximum torque correction for reducing knock				

Engine Thermal protection	ADD	AIO_PrIND	Map Trans & Rth Trail	Map Guidance
Ignition correction for engine thermal load				
Full Load Fuel Enrichment for engine thermal load				
Water temperature threshold for engine protection [1] or water temperature [2]				
High Water temperature for engine temperature indication				
High Water temperature for engine temperature indication				
High Oil High engine temperature indication				
Low Oil high engine temperature indication				

Torque Diagnostic for safety mode	ADD	AIO_PrIND	Map Trans & Rth Trail	Map Guidance
Engine speed threshold below which torque diagnosis is disabled				
Coolant temperature below which torque diagnosis is disabled				

Rated Pressure Diagnostic	ADD	AIO_PrIND	Map Trans & Rth Trail	Map Guidance
Estimated manifold pressure from estimated engine torque				
No time, req. for fault detection boost pressure				
Rpm threshold for patterns boost pressure diagnostic				

Catalyst Diagnostic	ADD	AIO_PrIND	Map Trans & Rth Trail	Map Guidance
Minimum water temperature to check catalyst				

Ignition Timing	ADD	AIO_PrIND	Map Trans	Map Guidance
Base Ignition Advance - M/T northstream				
Base Ignition Advance - M/T ENGINE-GEARBOX-CLUTCH minimum position				
Base Ignition Advance - M/T ENGINE maximum position				
Water temperature Tip to advance retard activation threshold				
Full Load Ignition Advance addition				

Knock Correction	ADD	AIO_PrIND	Map Trans	Map Guidance
Maximum angle for fast correction				
Maximum angle for slow correction with knock-detection on 2 cyl or more				
Maximum angle for slow correction with knock-detection on only one cylinder				
Fuel Enrichment over-Rpm limit when slow knock correction active				
Knock Full Load Fuel Enrichment engine speed activation threshold				

Knock Prevention	ADD	AIO_PrIND	Map Trans	Map Guidance
preventive knock correction function of the air temperature				
Minimum engine speed for preventive knock correction function of the air temperature				
Minimum manifold pressure for advance ist-button				
preventive knock correction factor function manifold pressure				

Knock Detection	ADD	AIO_PrIND	Map Trans	Map Guidance
Knock-critical-zone for slow correction				

Fuel Primary Fueling	ADD	AIO_PrIND	Map Trans	Map Guidance
Primary Fueling - by-VAT				
Primary Fueling - VAT				
if available				
if available				
if available				
if available				

Fuel Full Load Phase	ADD	AIO_PrIND	Map Trans	Map Guidance
Primary Ritchal Open Loop Fueling				
Rich Open Loop Fueling - Manifold Pressure				
Rich Open Loop Fueling - Manifold Pressure				
if available				
if available				
if available				
if available				

Fuel Injector	ADD	AIO_PrIND	Map Trans	Map Guidance
Injection scale factor				
Injection scale factor (Torsion pressure difference over injection)				
Injection opening delay for an optimal battery voltage				
Injector opening time battery correction				
Minimum ignition time				

Fuel Cranking	ADD	AIO_PrIND	Map Trans	Map Guidance
Injection time at start-up				

Fuel Consumption Display	ADD	AIO_PrIND	Map Trans	Map Guidance
Total injection time corresponding to 1[l /min] of gasoline				

Fuel Trim Control	ADD	AIO_PrIND	Map Trans	Map Guidance
Long Term Fuel Trim water temperature activation threshold				
Fuel Trim Bank 1 pressure threshold of the fifth zone. [draw 5]				
Fuel Trim 07 Low pressure threshold of the first zone. [draw 05]				
Fuel Trim 08 High pressure threshold of the fifth zone. [draw 14]				

Deceleration	ADD	AIO_PrIND	Map Trans	Map Guidance
Fuel cut-offs speed offset deactivation threshold				
Fuel cut-offs speed offset activation threshold				
Water temperature to activate fuel cut on diesel				
Water temperature to activate fuel cut on diesel if the first gear ratio is detected				

Camshaft control VVT	ADD	AIO_PrIND	Map Trans	Map Guidance
Enable Variable Camshaft				
Water temperature camshaft activation threshold				
Intake Camshaft angle				
Intake Camshaft syn				

Idle Control	ADD	AIO_PrIND	Map Trans	Map Guidance
Target idle speed when in neutral				
Target idle speed when in neutral w/ ac				
Target idle speed when in Drive				

Closed Loop Control	ADD	AIO_PrIND	Map Trans	Map Guidance
Closed Loop activation water temperature threshold				
Closed Loop activation engine speed threshold				
Closed Loop start-up delay				
Closed Loop activation time (1 on 50). Transition delay is deactivated				
Open loop minimum Enrichment				

2nd Closed Loop Control	ADD	AIO_PrIND	Map Trans	Map Guidance
Enable software configuration 2nd Closed Loop				
2nd Closed Loop engine speed activation threshold				

Oxygen Sensor	ADD	AIO_PrIND	Map Trans	Map Guidance
Configuration with or without oxygen sensor upstream				
Configuration with or without oxygen sensor downstream.				

Catalyst Warmup	ADD	AIO_PrIND	Map Trans	Map Guidance
Ignition retard 3				
Ignition retard 2				
Ignition retard 3				
Ignition retard 3				
Water Temperature threshold with determines cold start conditions for catalyst warm-up phase				
Engine speed threshold with determines cold start conditions				
TAS number required for and catalyst warm-up after restart				
Ignition retard strong for phase Dependsion 20 C				
Ignition retard if the first gear ratio is detected for phase Dependsion 20 C				
Ignition retard weak for phase Dependsion 20 C				

Cooling fan control	ADD	AIO_PrIND	Map Trans	Map Guidance
Water temperature cooling fan activation threshold engine running (ast + thermo				

Rev Limiter	ADD	AIO_PrIND	Map Trans	Map Guidance
Rev Limiter Warmup				
Rev Limiter Warmup, when oil considered to be cold				
Rev Limiter speed + speed +[s]				
Rev Limiter speed + speed +[s]				
Rev Limiter speed +[s]				
Rev Limiter Speed, deactivate the injection				
Rev Limiter Gear				
Rev Limiter Coolant				
Rev Limiter Coolant				
Gear change indicator light				

Diagnostic Trouble Codes MIL	ADD	AIO_PrIND
DTC 0040 - "A" Camshaft Position Actuator Circuit (Open Bank 1		
DTC 0105 - Manifold Absolute Pressure Circuit		
DTC 0122 - Intake Air Temperature Sensor Bank 1		
DTC 0123 - Engine Coolant Temperature Sensor 1 Circuit		
DTC 0125 - Throttle Body Position Sensor "A" Circuit		
DTC 0130 - O2 Sensor Heater Circuit - Bank 1 Sensor 1		
DTC 0133 - O2 Sensor Heater Circuit - Bank 1 Sensor 1		
DTC 0136 - O2 Sensor Heater Circuit - Bank 1 Sensor 2		
DTC 0141 - O2 Sensor Heater Circuit - Bank 2 Sensor 2		
DTC 0170 - Fuel Trim Bank 1		
DTC 0201 - Injector Circuit/Open - Cylinder 1		
DTC 0202 - Injector Circuit/Open - Cylinder 2		
DTC 0203 - Injector Circuit/Open - Cylinder 3		
DTC 0204 - Injector Circuit/Open - Cylinder 4		
DTC 0222 - Throttle/Pedal Position Sensor/Switch "B" Circuit		
DTC 0223 - Throttle/Pedal Position Sensor/Switch "C" Circuit		
DTC 0235 - Turbocharger/Supercharger Boost Sensor "A" Circuit		
DTC 0243 - Turbocharger/Supercharger Wastegate Solenoid "A"		
DTC 0300 - Random / multiple cylinder misfire detected (ingnated mode)		
DTC 0301 - Cylinder 1 Misfire Detected (pollution)		
DTC 0303 - Crankshaft Position System Variation Not Learned (EMF)		
DTC 0320 - Ignition Coil A		
DTC 0335 - Crankshaft Position Sensor "A" Circuit		
DTC 0340 - Camshaft Position Sensor "A" Circuit Bank 1		
DTC 0351 - Ignition Coil A		
DTC 0353 - Ignition Coil A		
DTC 0440 - Secondary Air Injection System Control "A" Circuit		
DTC 0442 - Evaporative Emission System Leak Detected (small present)		
DTC 0443 - Evaporative Emission System Purge Control Valve Circuit		
DTC 0446 - Evaporative Emission System Vent Control		
DTC 0480 - Fan 1 Control Circuit (low speed)		
DTC 0481 - Fan 2 Control Circuit (low speed)		
DTC 0506 - Idle/Air Speed Sensor "B" (Run-up/ed)		
DTC 0704 - Brake Switch "A"/"B" Correlation		
DTC 0705 - Transmission Range Sensor "A" Circuit		
DTC 0806 - Control Module Processor		
DTC 0807 - Fuel Pump "A" Control Circuit/Open		
DTC 0938 - Throttle Actuator Control Range/Performance Bank 1		
DTC 0939 - Throttle Actuator Control Range/Performance Bank 1		
DTC 0944 - Sensor Reference Voltage "A" Circuit/Open (m/t)		
DTC 0945 - A/C Clutch Relay Control Circuit		
DTC 0946 - Turbocharger/Supercharger Boost Sensor "A" Circuit/Open (m/t)		
DTC 0985 - EONTOR Power Relay Control Circuit/Open		
DTC 2101 - Throttle Actuator "A" Control Motor Circuit Range/Performance		
DTC 2102 - Throttle Actuator "A" Control Motor Circuit Range/Performance		
DTC 2135 - Throttle/Pedal Position Sensor/Switch "B" Circuit		

Diagnostic Trouble Codes Component Failure	ADD	AIO_PrIND
DTC 0105 - Manifold Absolute Pressure Circuit		
DTC 0122 - Intake Air Temperature Sensor 1 Circuit		
DTC 0123 - Engine Coolant Temperature Sensor 1 Circuit		
DTC 0125 - Throttle Body Position Sensor "A" Circuit		
DTC 0130 - O2 Sensor Circuit - Bank 1 Sensor 1		
DTC 0133 - O2 Sensor Circuit - Bank 1 Sensor 1		
DTC 0136 - O2 Sensor Circuit - Bank 1 Sensor 2		
DTC 0141 - O2 Sensor Heater Circuit - Bank 2 Sensor 2		
DTC 0170 - Fuel Trim Bank 1		
DTC 0201 - Injector Circuit/Open - Cylinder 1		
DTC 0202 - Injector Circuit/Open - Cylinder 2		
DTC 0203 - Injector Circuit/Open - Cylinder 3		
DTC 0204 - Injector Circuit/Open - Cylinder 4		
DTC 0222 - Throttle/Pedal Position Sensor/Switch "B" Circuit		
DTC 0223 - Throttle/Pedal Position Sensor/Switch "C" Circuit		
DTC 0235 - Turbocharger/Supercharger Boost Sensor "A" Circuit		
DTC 0243 - Turbocharger/Supercharger Wastegate Solenoid "A"		
DTC 0300 - Random / multiple cylinder misfire detected (ingnated mode)		
DTC 0301 - Cylinder 1 Misfire Detected		
DTC 0302 - Cylinder 2 Misfire Detected		
DTC 0303 - Cylinder 3 Misfire Detected		
DTC 0304 - Cylinder 4 Misfire Detected		
DTC 0306 - Cylinder 6 Misfire Detected (pollution)		
DTC 0313 - Cylinder misfire detected (pollution)		
DTC 0316 - Misfire Detected on Start (w/ Fuel)		
DTC 0320 - Ignition Coil A		
DTC 0335 - Crankshaft Position Sensor "A" Circuit		
DTC 0340 - Ignition Coil A		
DTC 0351 - Ignition Coil A		
DTC 0353 - Ignition Coil A Primary/Secondary Below Threshold (no catalyst present)		
DTC 0443 - Evaporative Emission System Purge Control Valve Circuit		
DTC 0480 - Fan 1 Control Circuit (low speed)		
DTC 0704 - Brake Switch "A"/"B" Correlation		
DTC 0891 - Battery voltage		
DTC 0806 - Control Module Processor		
DTC 0807 - Fuel Pump "A" Control Circuit/Open		
DTC 0938 - Throttle Actuator Control Range/Performance Bank 1		
DTC 0939 - Throttle Actuator Control Range/Performance Bank 1		
DTC 0945 - A/C Clutch Relay Control Circuit		
DTC 0946 - Turbocharger/Supercharger Boost Sensor "A" Circuit/Open (m/t)		
DTC 0985 - EONTOR Power Relay Control Circuit/Open		
DTC 2101 - Throttle Actuator "A" Control Motor Circuit Range/Performance		
DTC 2135 - Throttle/Pedal Position Sensor/Switch "B" Circuit		
DTC 2176 - Throttle/Pedal Position Sensor/Switch "A"/"B" Correlation		
DTC 2199 - Brake Pedal Position/Accelerator Pedal Position Incompatible		

TRANSFORM your car.
CONTROL the power.

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