Micro Lambda Controller HOW TO



Setup to work with MS2:

Settings at micro lambda:

Go to "Controller Setup" \rightarrow "General settings" to get the following menu:



Settings at Megasquirt 2:

Go to "Fuel Settings" \rightarrow "EGO Control" to get the following menu:

EGO Control File View Help			x				
EGO Control			_				
EGO Sensor Type Dual Wide Band							
Ist EGO Sensor port Remote ADC0							
🦪 🚺 2nd EGO Sensor port	Remote ADC1						
🥰 🚺 Use 2nd EGO Without Dual-Table	On		\mathbf{v}				
Ignition Events Per Step		24					
🚅 🔝 Controller Step Size(%)		1.0	3				
Controller Auth +/-(%)		20					
Active Above CLT(°C)		40.0					
Active Above RPM 750							
Active Below TPS(%) 110.0							
Active Below MAP(kPa) 150.00							
20.00							
🛒 🔝 Narrowband EGO target(Lambda		0.952	3				
WB Controller Settings							
n 🕂 🕄 Algorithm	PID		~				
🥰 🔃 EGO Delay After Start(s)		15					
n PID Proportional Gain(%)		20					
PID Integral(%)		5					
PID Derivative(%)		1					
Disabled - No EGO sensor enabled. Narrowband = Enable narrowband sens	or/s.		^ ~				
1	<u>B</u> urn	<u>C</u> lose					

Setup this:

<u>EGO Sensor Type:</u> "Single Wide Band if you have on micro lambda controller or Dual Wide Band if you have 2 controllers"

 $\frac{1^{st} EGO Sensor port:}{2^{nd} EGO Sensor port:}$ "Set to Remote ADC0"

Go to "Tools" \rightarrow "Calibrate AFR Table" to get the following menu: Calibrate AFR Table.



Setup to work with MS3:

Settings at micro lambda:

Go to "Controller Setup" \rightarrow "General settings" to get the following menu:



Settings at Megasquirt 3:

Go to "Fuel Settings" \rightarrow "AFR/EGO Control" to get the following menu:

🝓 AFR / EGO Control		100	-	Position	- 1	1		1 E	23
<u>F</u> ile <u>V</u> iew <u>H</u> elp									
AFR / EGO Control									
🥰 김 Algorithm	Simple	\	-	💐 김 EGO Sensor Ty	pe Wide Ban	id 🗸	AFR / EGO S	Sensor Mapping	
💐 🛿 Use EGO Delay Table	Use IGN e	vents 🔹	•				Injector	- Uses Sensor	
Ignition Events Per Step		16	-				MS3X Inj A	EG01	~
🛒 🖾 EGO Sensor Response Time(ms)			÷			-			
Controller Step Size(%)		2	-	2 C Number Of Sen	sors	6	MS3X Inj B	C EGO2	∽
💐 🕄 Use Authority Table	Off		~					_	
🛒 🛙 Combined or separate +/- authority tables			*				MS3X Inj C	C EGO3	<u> </u>
Controller Auth +/-(%)		15	R	Remember to Calibrat	e and set Pro	oject Properties	MS3X Ini D	FCO4	
Only Correct Above:(Lambda)		0.612	*				mooxinje	2004	
🦪 And Correct Below:(Lambda)		1.361	-				MS3X Inj E	C EGO5	~
Active Above Coolant(°C)		71.1	а,	EGO ports					
Active Above RPM		1300	-	🦪 EGO 1 Port	CAN EGO	∽	MS3X Inj F	C EGO6	~
Active Below TPS(%)		70.0	-	EGO 2 Port	CAN EGO	~		_	
Active Below Load(%)		110.00	-	EGO 3 Port	CAN EGO	~	MS3X Inj G	EG07	<u> </u>
Active Above Load(%)		20.00	-	EGO 4 Port	CAN EGO	~	MS3X Ini H	FCO8	
🚅 김 EGO Delay After Start(s)		30			CANECO		PISSX IIIJ II I	EGOS	Ľ
🥰 🕄 EGO Delay After Fuel/Spark cut(s)		2.0		EGO S Foit			V3 Inj 1	S EGO9	~
🚅 🖾 PID Proportional Gain(%)			4 2	EGO 6 Port	CAN EGO	`			
€ ID Integral(%)		20	÷	EGO 7 Port		~	V3 Inj 2	Second	_
e B PID Derivative(%)			÷.	🥌 EGO 8 Port		\checkmark			
						5	2	U Burn	Close
							_		

Setup this:

EGO Sensor Type: "Wide Band"

Number Of Sensors: "Number of controllers you have on the bus"

EGO 1..6 Port: "Set to CAN EGO"

<u>AFR / EGO Sensor Mapping:</u> "Map the correct EGO to the injector channel" (This is also covered in the ms3 manual)

Go to "Tools" \rightarrow "Calibrate AFR Table" to get the following menu:

