



Document/File name <b>TTT802_MasterEMU.docx</b>	Document Type <b>External</b>	Revision <b>1</b>
First Revision, Sign and Date <b>Bln 2018-03-08</b>	Updated Revision, Sign and Date	Document Status and Sign <b>Approved Lan</b>
Document and Product Description <b>Interfacing Ecu Master EMU to TTT802 Gearshift Controller</b>		Page <b>1 (5)</b>

**Adjust Settings in the Ecu Master EMU according to this information...**

Ecumaster EMU CLASSIC Client

File Edit Desktops Tools Window Help

**Configuration**

- Sensors setup
- Engine start
- Enrichments
- Fueling
- Ignition
- Knock sensors
- Idle
- Outputs
- Boost
- DBW
- Traction control
- VVT
- Sport**
- Shift light
- Launch control
- Flat shift
- Gear Cut**
- ALS
- Pit limiter
- 2nd engine TR
- Rolling antilag
- Dit limiter tora

**logs** | cranking | triggers | ignition

Basic

Name	Value	Unit
RPM	0	RPM
MAP	0	kPa
BARO	0	kPa
TPS	0	%
IAT	0	°C
CLT	0	°C
Battery voltage	0	V
Oil pressure	0	Bar
Oil temperature	0	°C
Fuel pressure	0	Bar
Fuel level	0	%
ECU State	0	
ECU Reset	0	

Boost

Name	Value	Unit
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Configuration

- Sensors setup
- Engine start
- Enrichments
- Fueling
- Ignition
- Knock sensors
- Idle
- Outputs
- Boost
- DBW
- Traction control
- VVT
- Sport
- Nitrous
- Flex Fuel
- Other
- Timers
- Ext. port
- Log
- Gauges

logs cranking triggers ignition fuel

Sport - Gear Cut

Strategy	Basic cut
Signal source	External controller
Signal input	None
Activation level	None
Gear force up	Analog input #1 (B20)
Gear force up hist.	Analog input #2 (B3)
Gear force down	Analog input #3 (B11)
Gear force down hist.	Analog input #4 (B19)
TPS Min	Analog input #1 inverted (B20)
RPM Min	Analog input #2 inverted (B3)
Min VSS	Analog input #3 inverted (B11)
Max TPS for blip	Analog input #4 inverted (B19)
Blip throttle %	MUX switch 1
Blip time	MUX switch 2
Arm time	MUX switch 3
Cut delay	MUX switch 1 inverted
Cut level	MUX switch 2 inverted
Cut time	MUX switch 3 inverted
Ignition retard	CAM #2 input
Ign. retard time	CAM #2 input inverted
Ign. retard restore rate	CAN Analog #1
Fuel multiplier	CAN Analog #2
CAN ID (dec)	CAN Analog #3
CAN ID byte idx	CAN Analog #4
	0

Use one of the four Analog inputs inverted for the Cut output from TTT802



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Parameter	Value
Strategy	Basic cut
Signal source	External controller
Signal input	Analog input #3 (B11)
Activation level	Active low
Gear force up	0,98 V
Gear force up hist.	0,1 V
Gear force down	3,49 V
Gear force down hist.	0,1 V
TPS Min	0 %
RPM Min	600 RPM
Min VSS	0 km/h
Max TPS for blip	20 %
Blip throttle %	50 %
Blip time	200 ms
Arm time	0 ms
Cut delay	0 ms
Cut level	100 %
Cut time	50 ms
Ignition retard	0 deg
Ign. retard time	25 ms
Ign. retard restore rate	2 deg/rev
Fuel multiplier	100 %
CAN ID (dec)	300
CAN ID byte idx	0





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### Wire connections.

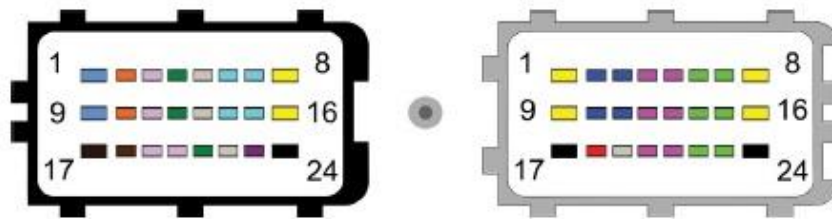
Use extension cable (TTT Part # 12-650-6) to interface the Ecu Master EMU with the TTT802 cable harness (TTT Part # 12-630-8).

Red – Cut Open Collector – connects to one of the Ecu Master EMU Analog input Inverted Pin B20, B3, B11, B19, also connect a 2k2 resistor from the used input to +5V supply B23.

Blue – Cut Gnd – connect to Ecu Master EMU Sensor Ground Pin B18

White – Ign pulse – connect to Ecu Master EMU Tacho Output Pin G12 Aux 5

Black - Gnd Ign pulse – connect to Ecu Master EMU ECU Ground Pin B17



Device View

BLACK		GRAY	
1	EGT In #1	1	Ignition coil #6
2	Knock Sensor In #1	2	Stepper motor #1 winding A
3	Analog In #2	3	Stepper motor #2 winding A
4	CLT In	4	AUX 6
5	WBO Vs	5	AUX 3
6	Camsync In #2	6	Injector #4
7	Primary trigger In	7	Injector #1
8	Ignition coil #5	8	Ignition coil #1
9	EGT In #2	9	Ignition coil #3
10	Knock Sensor In #2	10	Stepper motor #1 winding B
11	Analog In #3	11	Stepper motor #2 winding B
12	TPS In	12	AUX 5
13	WBO Ip	13	AUX 2
14	VSS In	14	Injector #5
15	Camsync #1	15	Injector #2
16	Ignition coil #4	16	Ignition coil #2
17	ECU Ground	17	Power Ground
18	Sensor Ground	18	Power +12V
19	Analog In #4	19	WBO Heater
20	Analog In #1	20	AUX 4 / Tacho
21	IAT In	21	AUX 1
22	WBO Vs/Ip	22	Injector #8
23	+5V supply	23	Injector #3
24	Power Ground	24	Power Ground



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