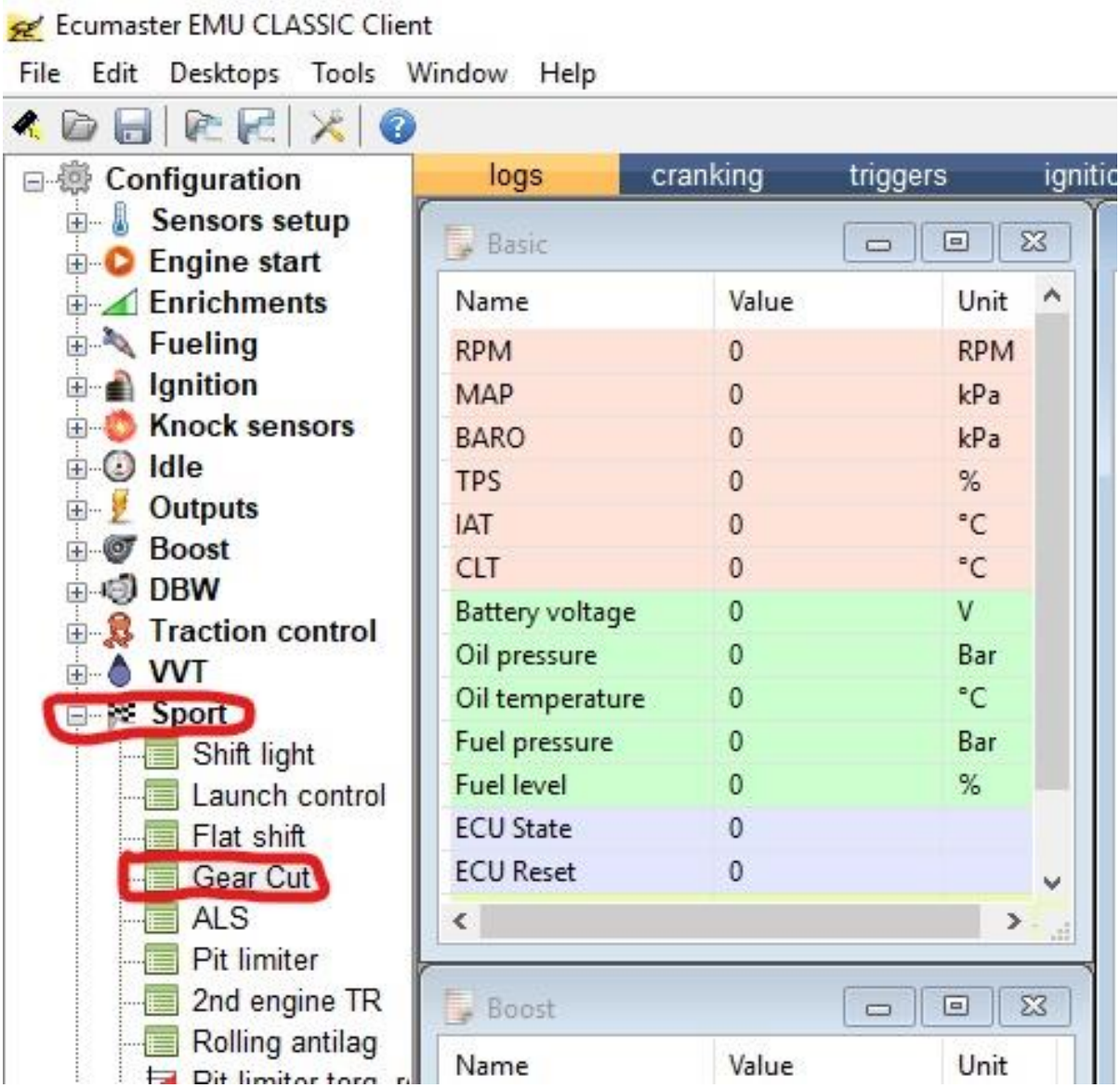
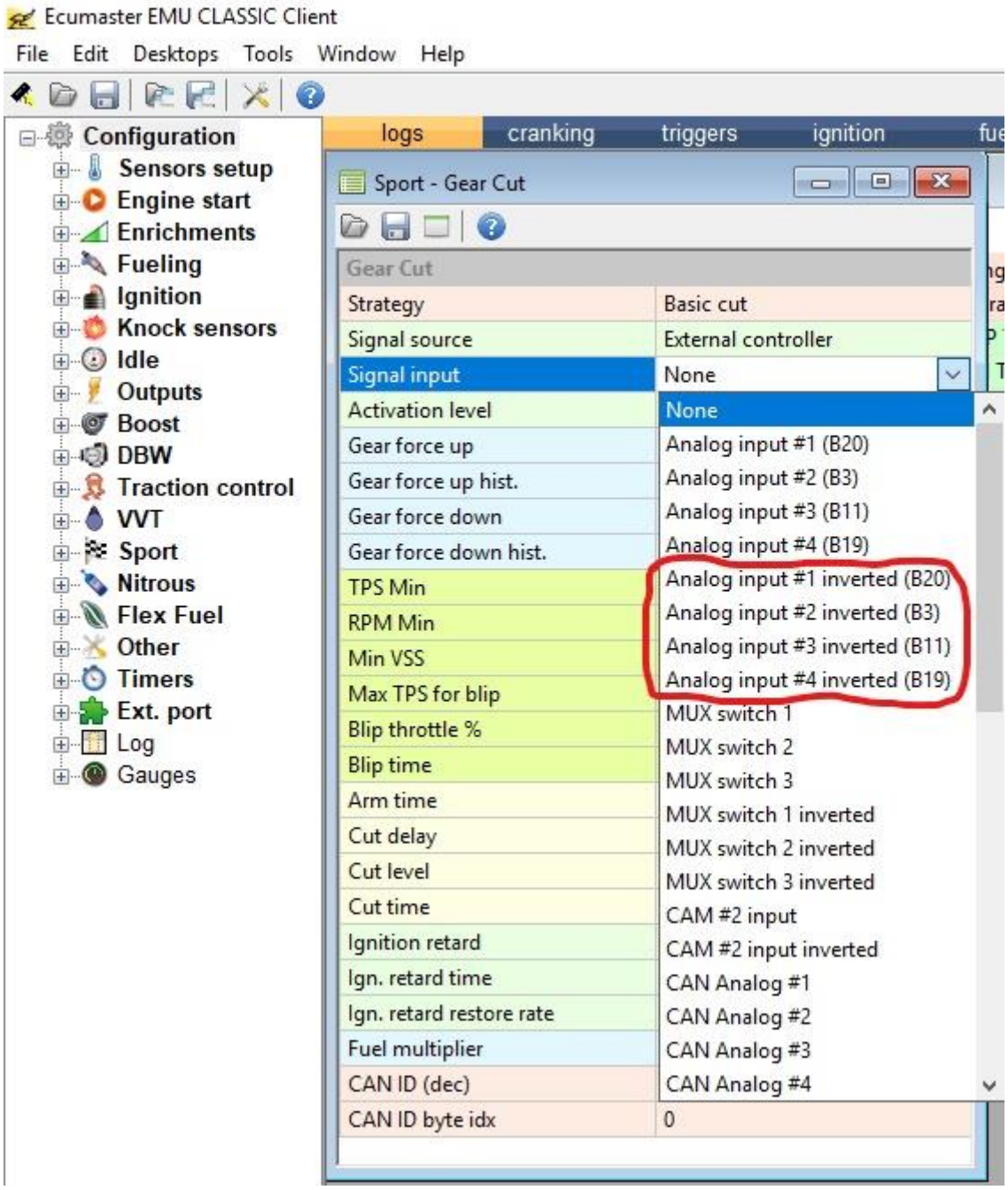
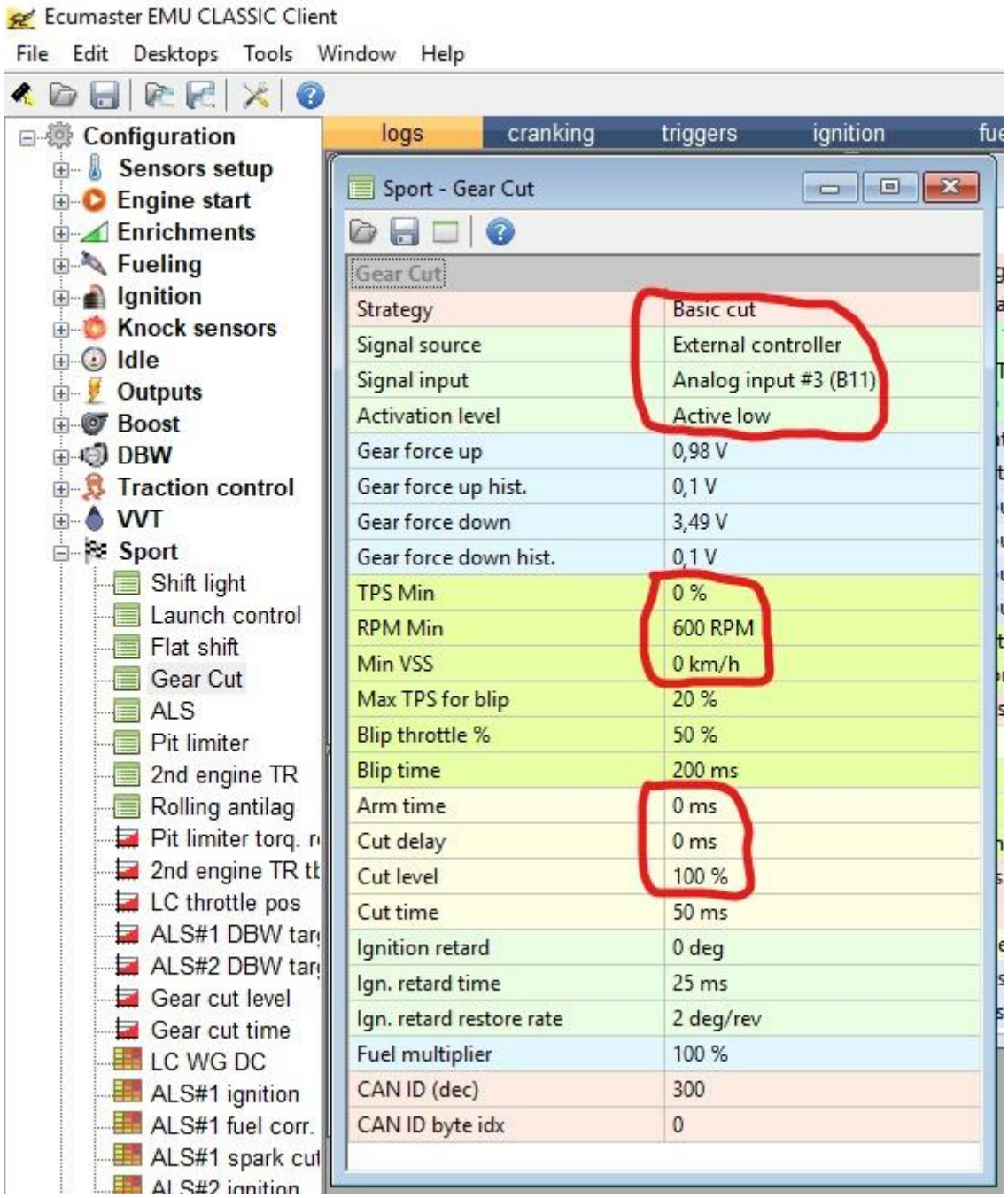
Adjust Settings in the Ecu Master EMU according to this information…


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
logs
cranking
triggers
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



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



Wire connections.

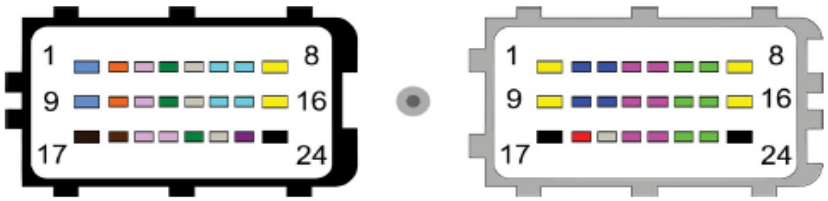
Use extension cable (TTT Part # 12-650-6) to interface the Ecu Master EMU with the TTT802 cable harness (TTT Part # 12-630-8 or 12-631-7 or 12-633-5).

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 G20 Aux 4
Black - Gnd Ign pulse – connect to Ecu Master EMU ECU Ground Pin B17

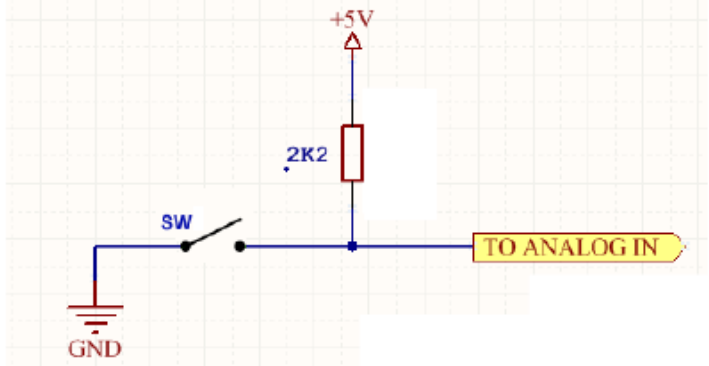
CONNECTOR PINOUT DETAILS



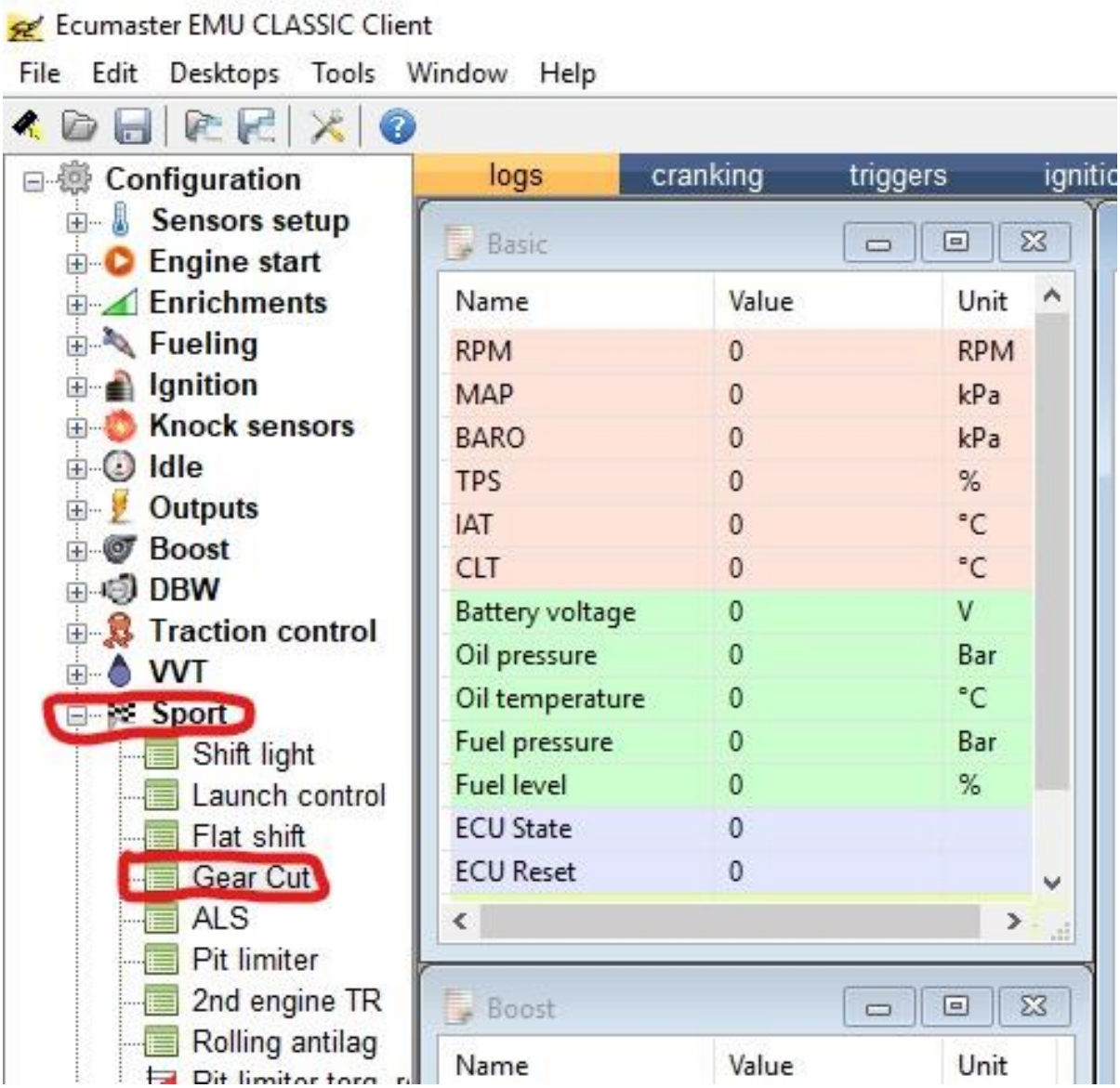
Device View

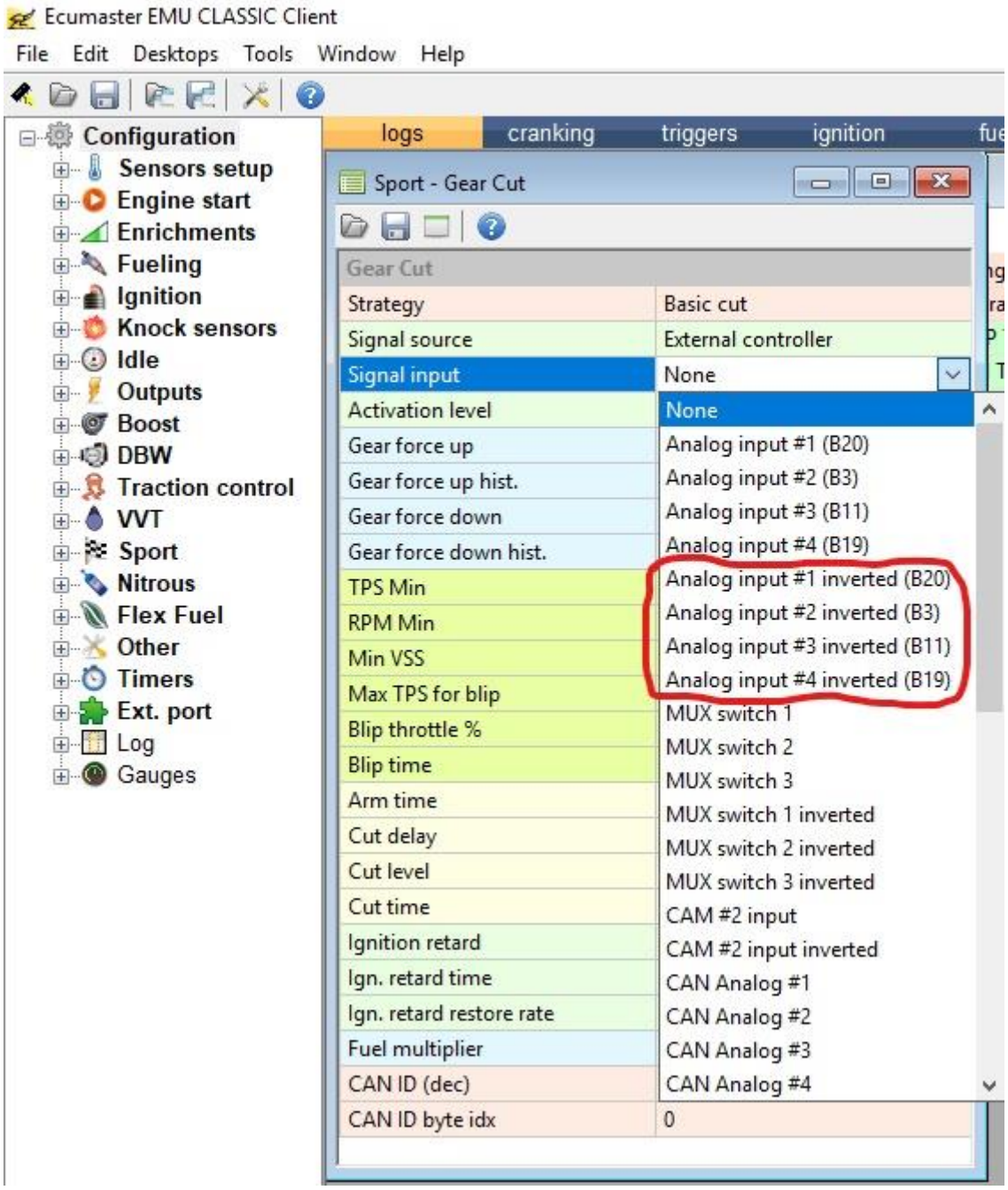
BLACK		GRAY	
1	EGT In #1	1	Ignition coil #6
2	Knock Sensor In #1	2	Stepper motor #1 winding A
3	Analog In #2	3	Stepper motor #2 winding A
4	CLT In	4	AUX 6
5	WBO Vs	5	AUX 3
6	Camsync In #2	6	Injector #4
7	Primary trigger In	7	Injector #1
8	Ignition coil #5	8	Ignition coil #1
9	EGT In #2	9	Ignition coil #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 #6
23	+5V supply	23	Injector #3
24	Power Ground	24	Power Ground

ANALOG #1 - ANALOG #4 INVERTED

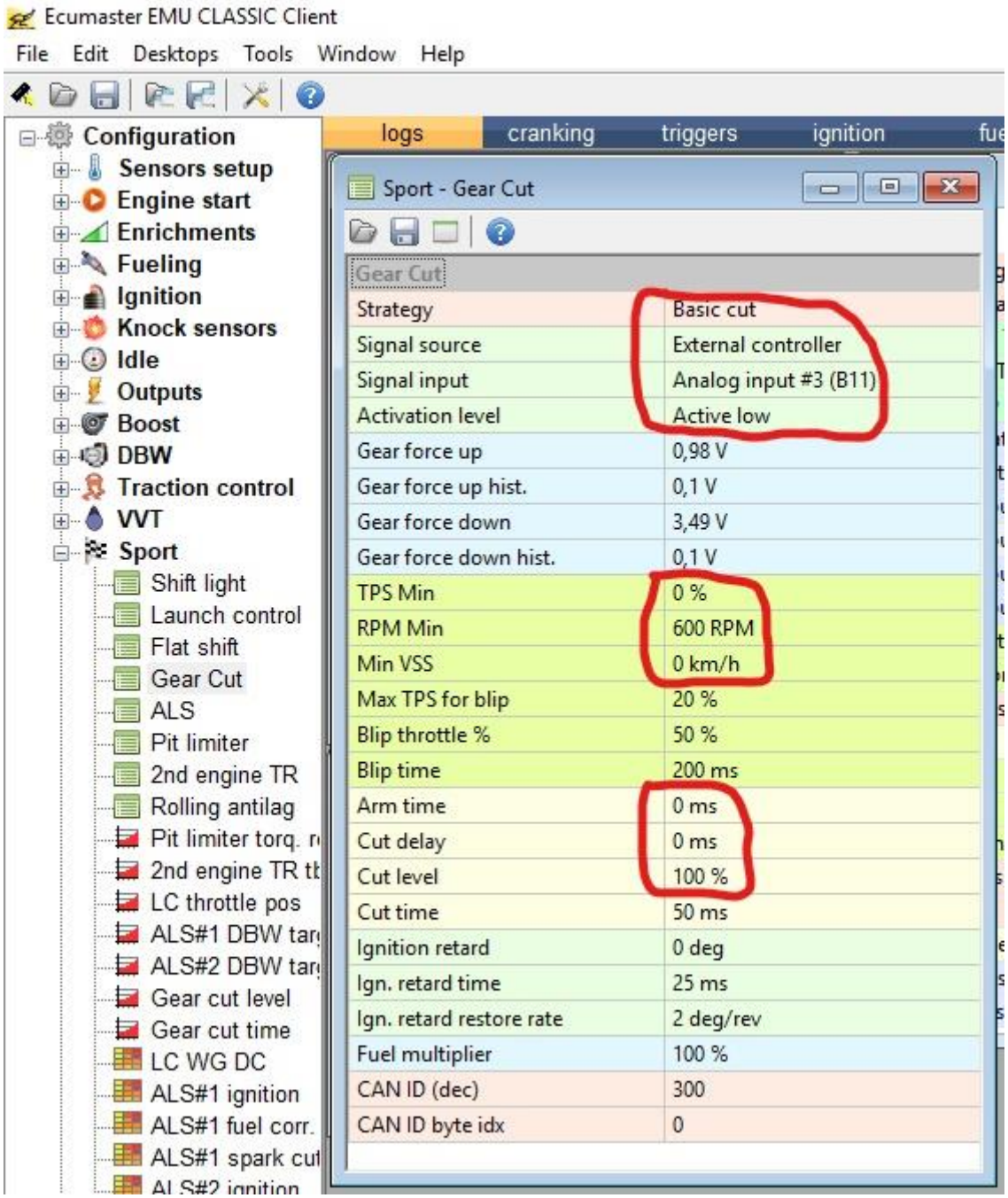


In the case of Analog input #x inverted option, the activation is performed if the voltage on analog input is lower than 1V


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
logs
cranking
triggers
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



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



Wire connections.

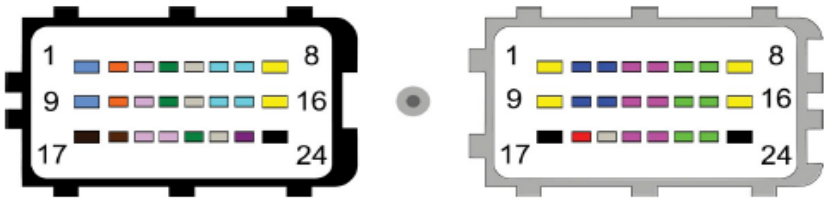
Use extension cable (TTT Part # 12-650-6) to interface the Ecu Master EMU with the TTT802 cable harness (TTT Part # 12-630-8 or 12-631-7 or 12-633-5).

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 G20 Aux 4
Black - Gnd Ign pulse – connect to Ecu Master EMU ECU Ground Pin B17

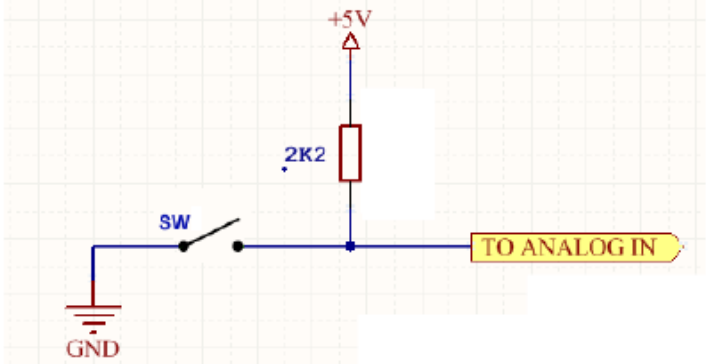
CONNECTOR PINOUT DETAILS



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 #6
23	+5V supply	23	Injector #3
24	Power Ground	24	Power Ground

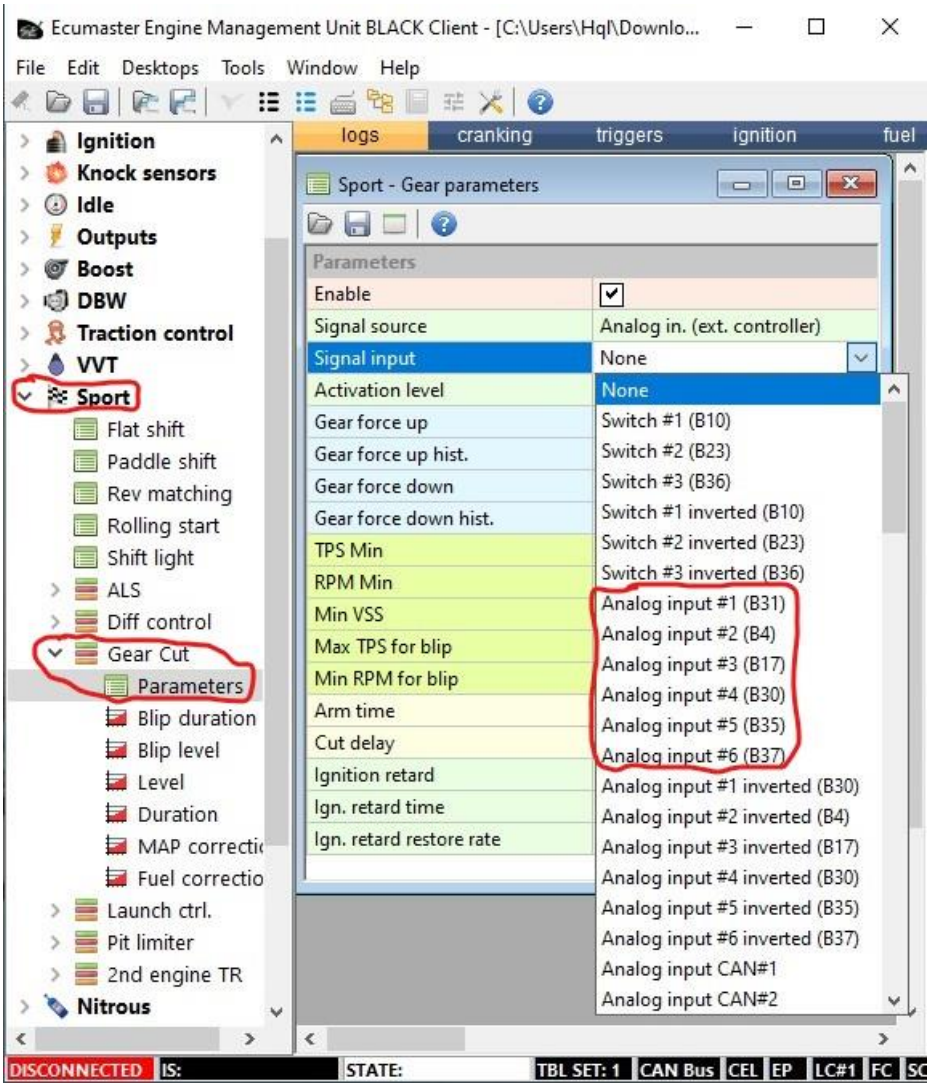
ANALOG #1 - ANALOG #4 INVERTED



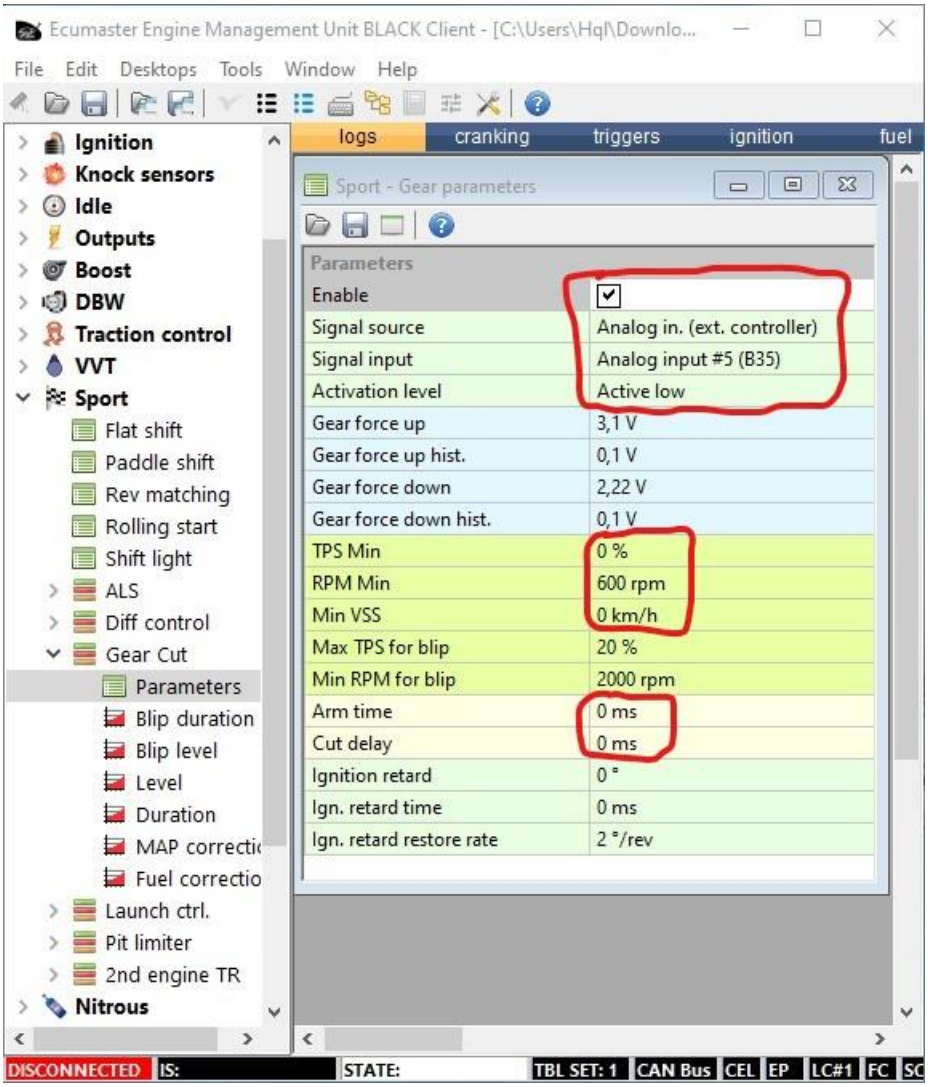
In the case of Analog input #x inverted option, the activation is performed if the voltage on analog input is lower than 1V

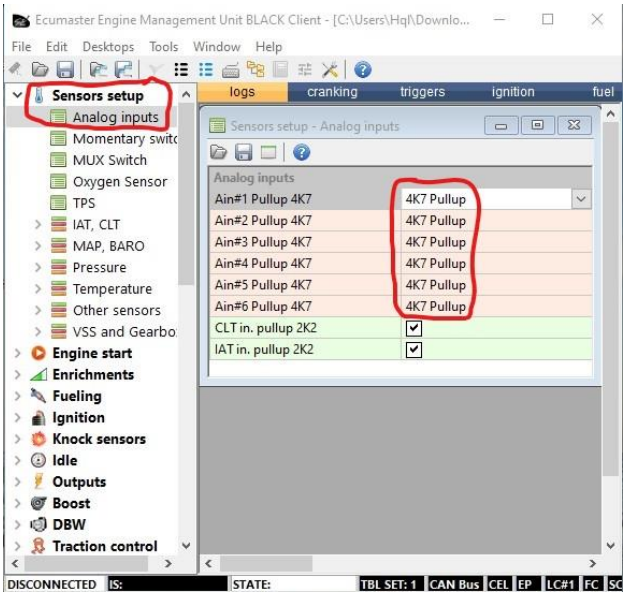
Interfacing Ecu Master EMU Black to TTT802 Gearshift Controller

Adjust Settings in the Ecu Master EMU Black according to this information…

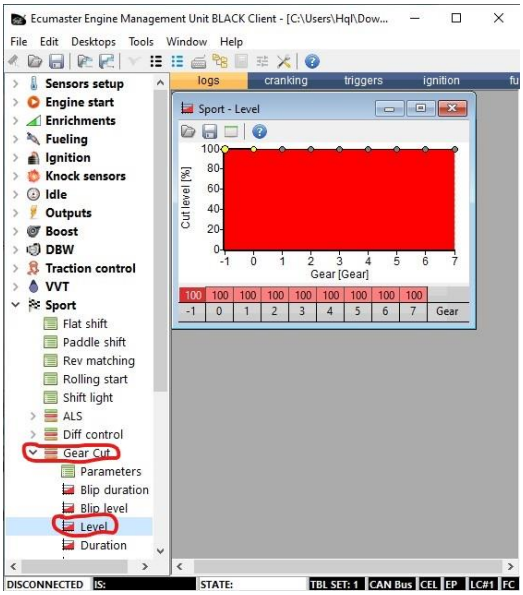


Use one of the six Analog inputs for the Cut output from TTT802


Ecumaster Engine Management Unit BLACK Client - [C:\Users\Hql\Downlo...
File Edit Desktops Tools Window Help
Ignition
Knock sensors
Idle
Outputs
Boost
DBW
Traction control
VVT
Sport
Flat shift
Paddle shift
Rev matching
Rolling start
Shift light
ALS
Diff control
Gear Cut
Parameters
Blip duration
Blip level
Level
Duration
MAP correcti
Fuel correctio
Launch ctrl.
Pit limiter
2nd engine TR
Nitrous
logs
cranking
triggers
ignition
fuel
Sport - Gear parameters
Parameters
Enable
Signal source
Analog in. (ext. controller)
Signal input
Analog input #5 (B35)
Activation level
Active low
Gear force up
3,1 V
Gear force up hist.
0,1 V
Gear force down
2,22 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 %
Min RPM for blip
2000 rpm
Arm time
0 ms
Cut delay
0 ms
Ignition retard
0 °
Ign. retard time
0 ms
Ign. retard restore rate
2 °/rev
DISCONNECTED
IS:
STATE:
TBL SET: 1
CAN Bus
CEL
EP
LC#1
FC



B



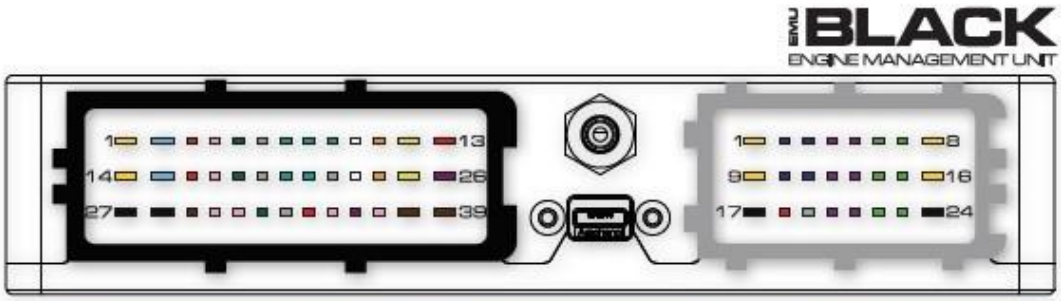
Wire connections.

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 Black Analog input Pin 31, 4, 17, 30, 35, 37.

Blue – Cut Gnd – connect to Ecu Master EMU Black ECU Sensor Ground Pin 29, 38, 39.

White – Ign pulse – connect to Ecu Master EMU Black Aux 4 / Tacho Pin 20
Black - Gnd Ign pulse – connect to Ecu Master EMU Black ECU Ground Pin 28.



Black 39pin connector

1	Ignition coil #5	14	Ignition coil #4	27	Power Ground
2	EGT in #1	15	EGT in #2	28	Ecu Ground
3	Knock Sensor in #1	16	Knock Sensor in #2	29	Sensor Ground
4	Analog In #2	17	Analog In #3	30	Analog In #4
5	CLT In	18	TPS In	31	Analog In #1
6	WBO Vs	19	WBO Ip	32	IAT In
7	Camsync In #2	20	VSS In	33	WBO VGND
8	Primary trigger	21	Camsync In #1	34	+5V supply
9	Flex Fuel In	22	WBO Rcal	35	Analog In #5
10	Switch #1 In	23	Switch #2 In	36	Switch #3 In
11	RS232 TXD	24	RS232 RXD	37	Analog In #6
12	CAN H	25	CAN L	38	Sensor Ground
13	Battery +12V	26	+5V supply	39	Sensor Ground

Grey 24pin connector

1	Ignition coil #6	9	Ignition coil #3	17	Power Ground
2	H-Bridge #1 Winding A	10	H-Bridge #1 winding B	18	Ignition +12V
3	H-Bridge #2 Winding A	11	H-Bridge #2 winding B	19	WBO Heater
4	AUX 6	12	AUX 5	20	AUX 4 / Tacho
5	AUX 3	13	AUX 2 / Injector #8	21	AUX 1 / Injector #7
6	Injector #4	14	Injector #5	22	Injector #6
7	Injector #1	15	Injector #2	23	Injector #3
8	Ignition coil #1	16	Ignition coil #2	24	Power Ground