HALTECH TO MAXXECU GATEWAY SETUP FOR 8HP TRANSMISSION CONTROL

Thank you for the purchase of the Haltech to MaxxECU gateway controller. This module will allow seamless communication between a Haltech ECU running NSP firmware and a MaxxECU for the control of a 8HPXX transmission.

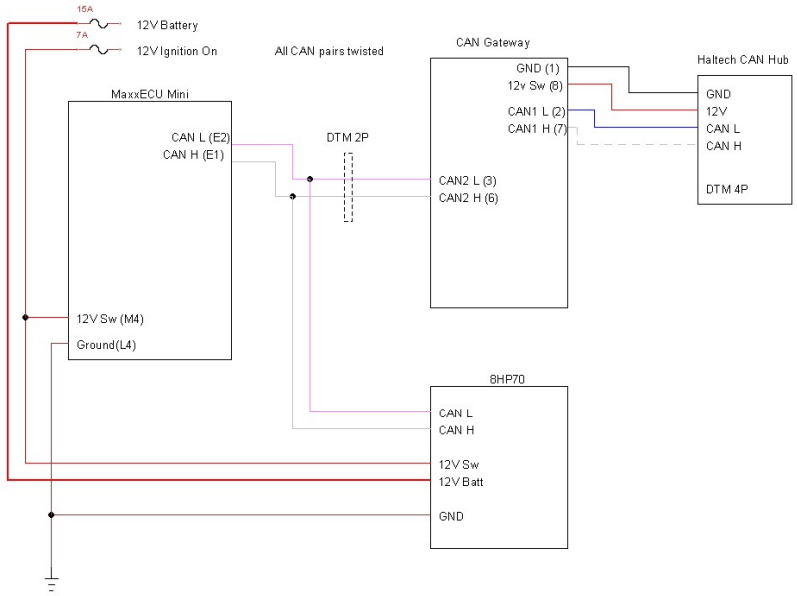
The CAN gateway is a triple bus module but for the purpose of integrating the MaxxECU for transmission control we will only be using two CAN busses.

Bus #1 runs at 1Mbit/s and connects to the Haltech side of the network.

Bus#2 runs at 500Kbit/s and connects to the MaxxECU side of the network.

The 8HPXX transmission by default operates at 500Kbit/s which cannot be changed.

Below you will find a wiring diagram of how the system is to be laid out.



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File C:\Use ... Haltech To Maxx Gateway Wiring.dsn		Document
Revision 1.0	Date	Sheets 1 of 1

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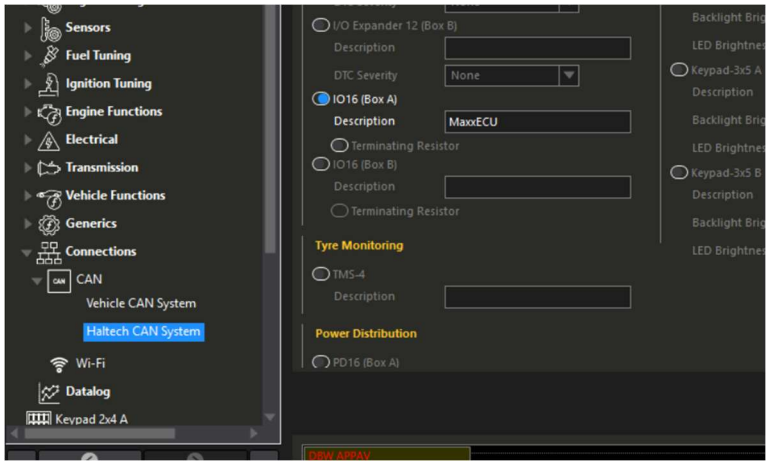
To set this system up requires the programming of several inputs and outputs. Below is a list of such items to be configured.

Haltech System:

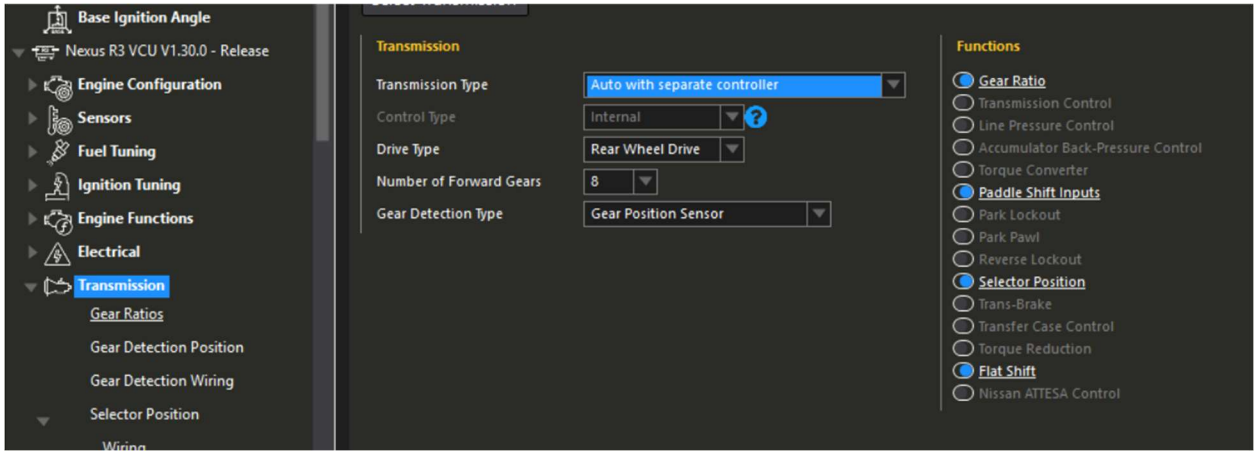
Go under Connections>CAN>Haltech CAN System> and enable IO16 Box A and name it MaxxECU. This now allows us to route CAN messages from the Maxx through the gateway too the Haltech.



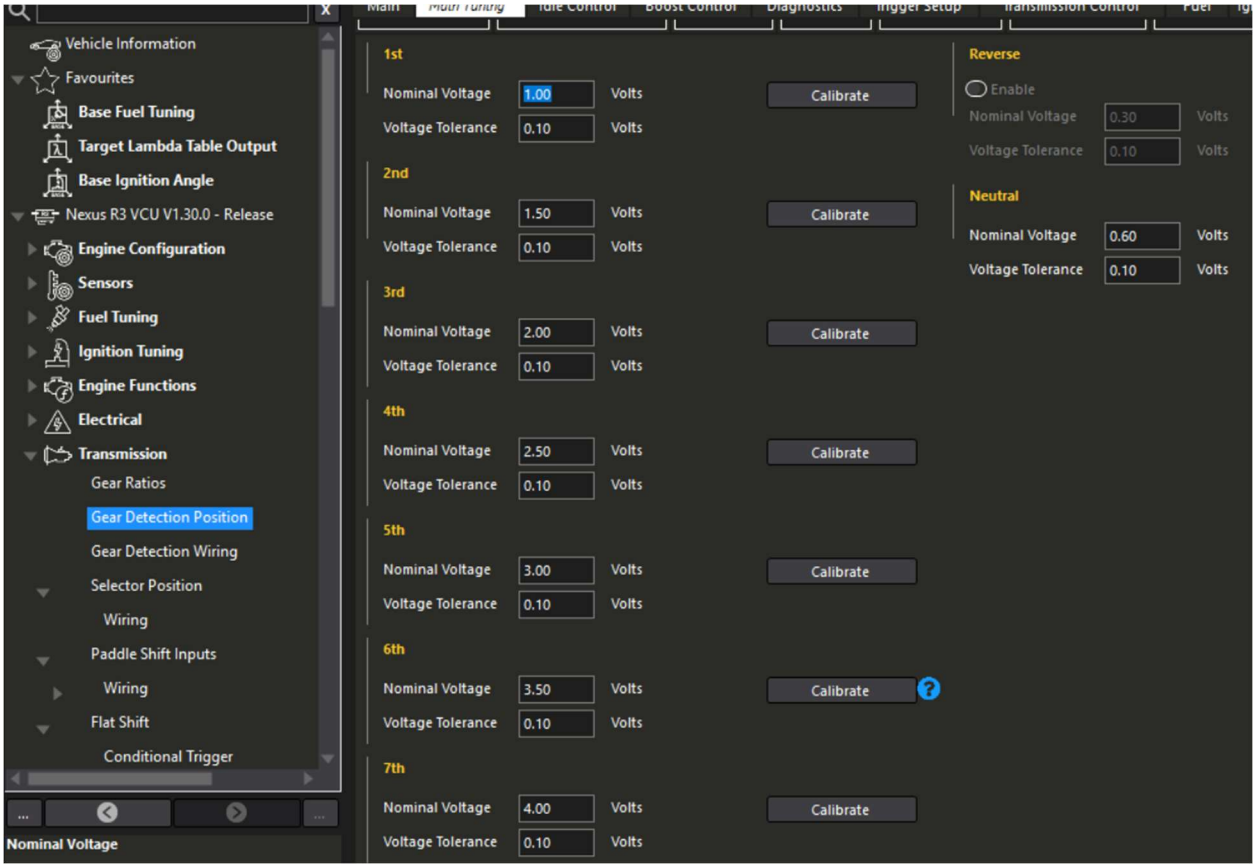
Transmission setup-

Now we need to setup all the transmission functions on the haltech side of things.

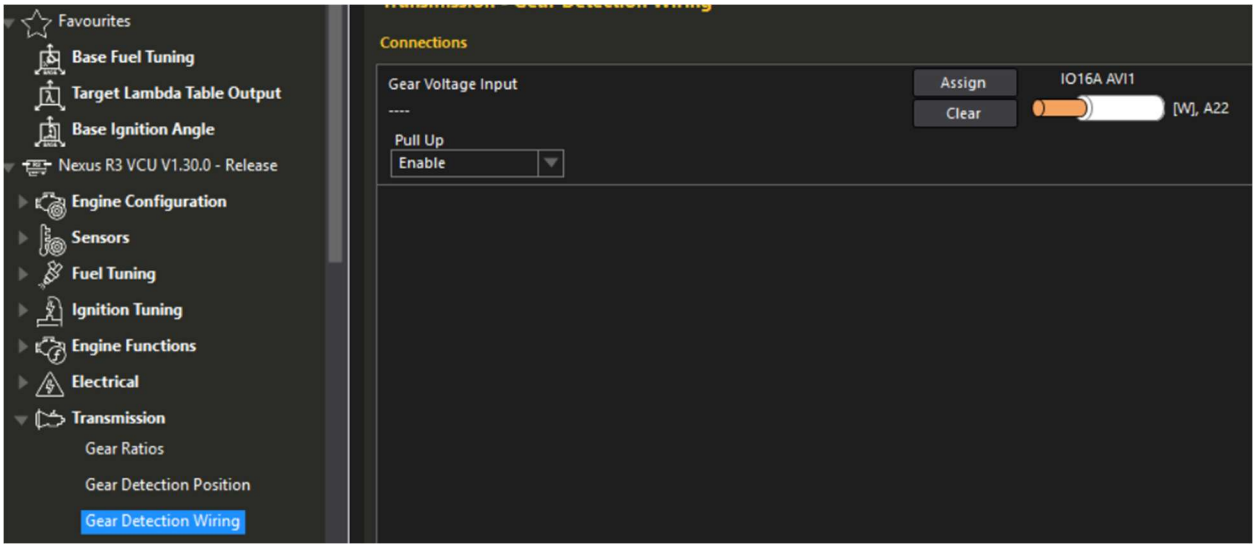
First step- Select Auto with separate controller, enable Gear Ratio, Paddle Shift, Selector Position and Flat Shift. Set to Rear Wheel Drive, 8 forward gears and Gear Position Sensor



Next we will setup Gear Positions- Enter the voltage values as below.



Next we set the Gear Position Wiring as below. Make sure to select IO16A, AVI1



Next is Select Position- Set the voltages as per below. Make sure input type is CAN Keypad or Voltage.

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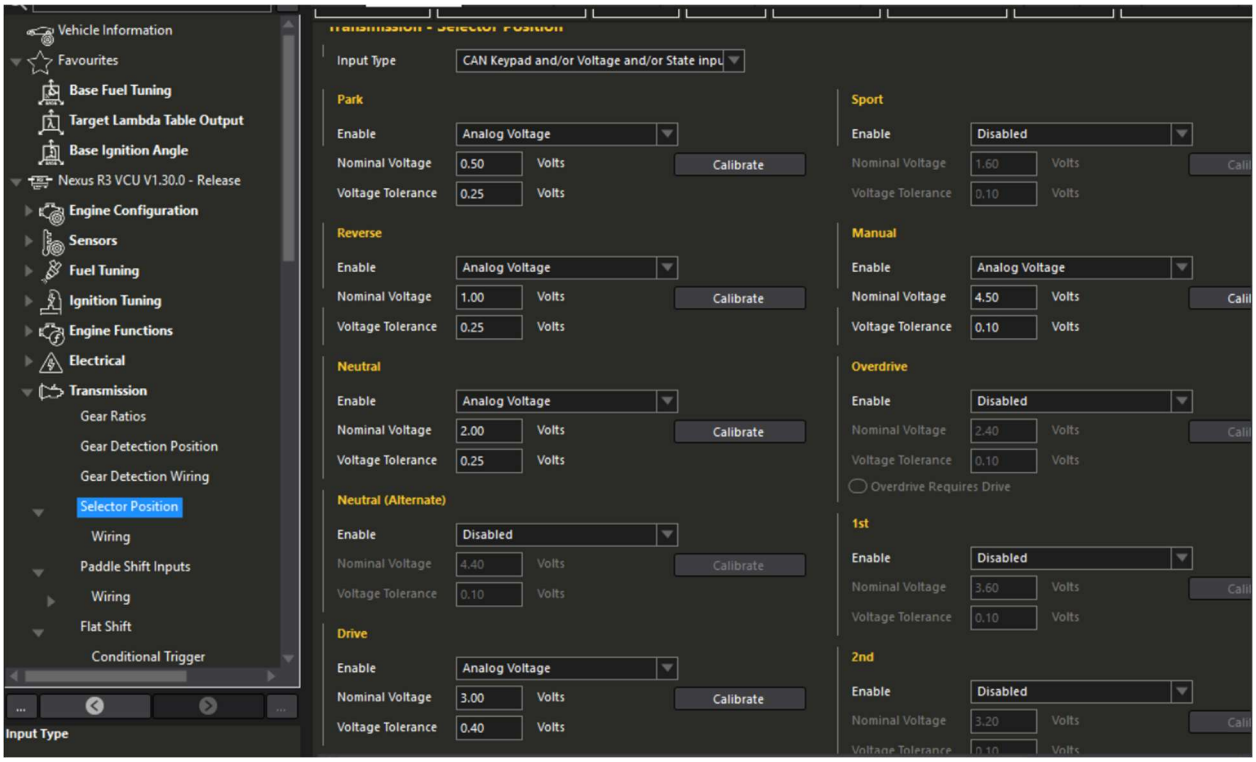
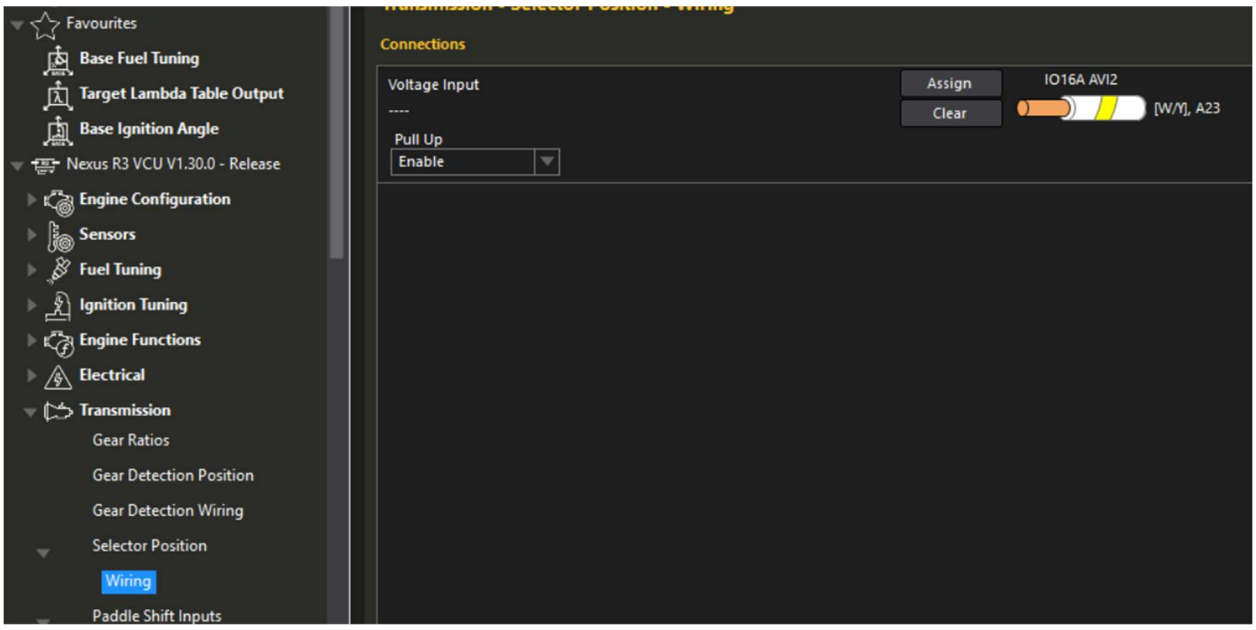


Selector Position Wiring – IO16A, AVI2



Paddle shift setup- Simply enable Shift Stack

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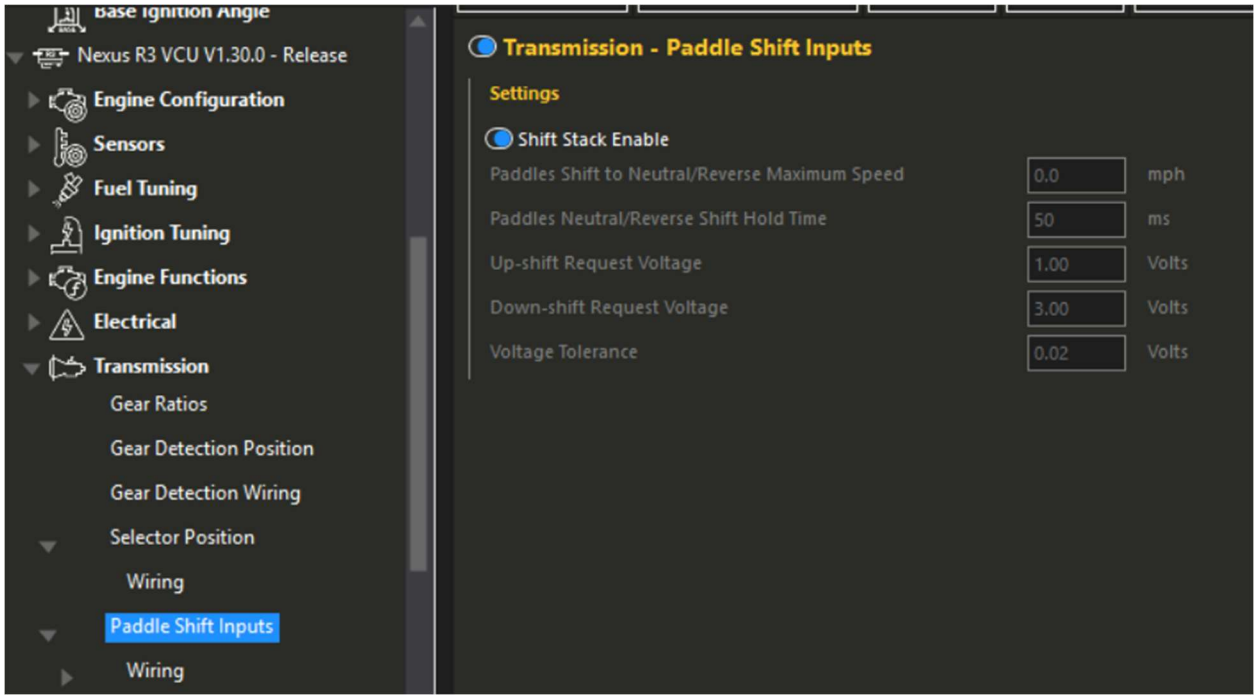
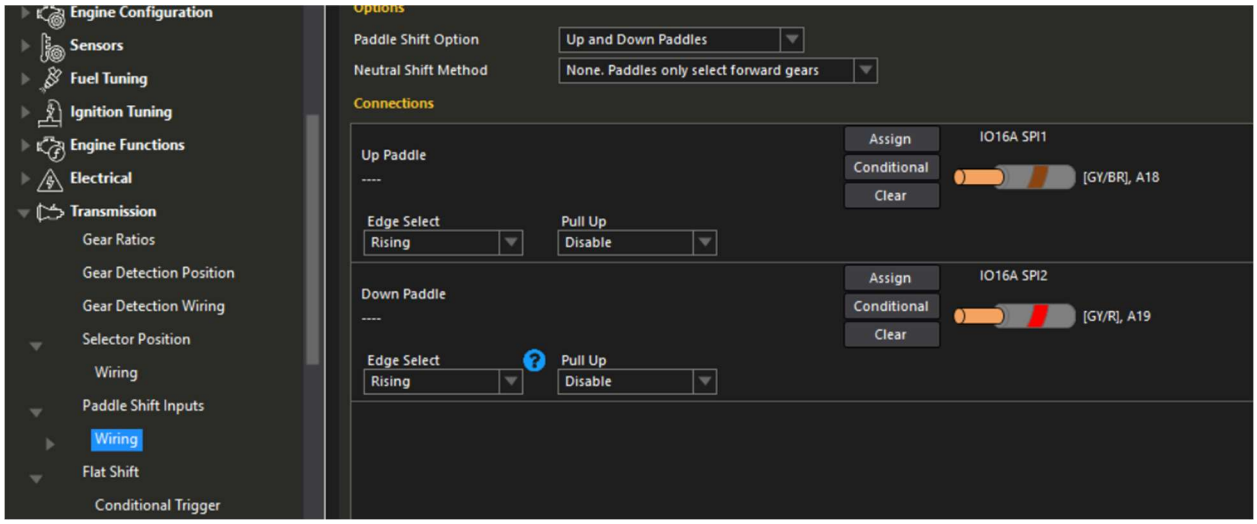


Paddle Shift Wiring- Select Up and Down Paddles, Neutral shift method set to None. Up Paddle- IO16A, SPI1. Down Paddle- IO16A, SPI2. Set both to Rising edge with pull up disabled.



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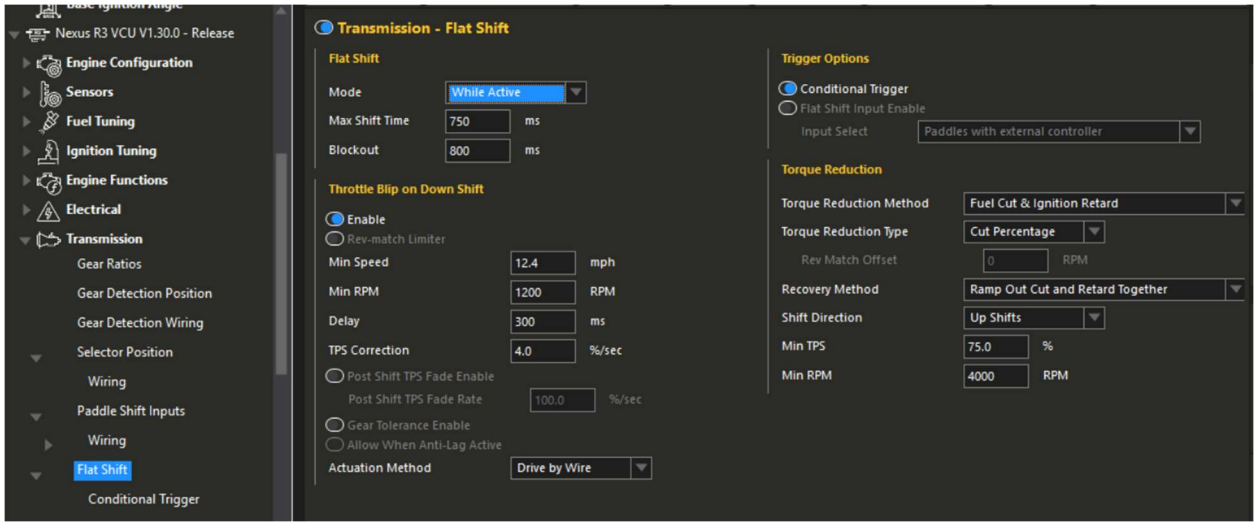
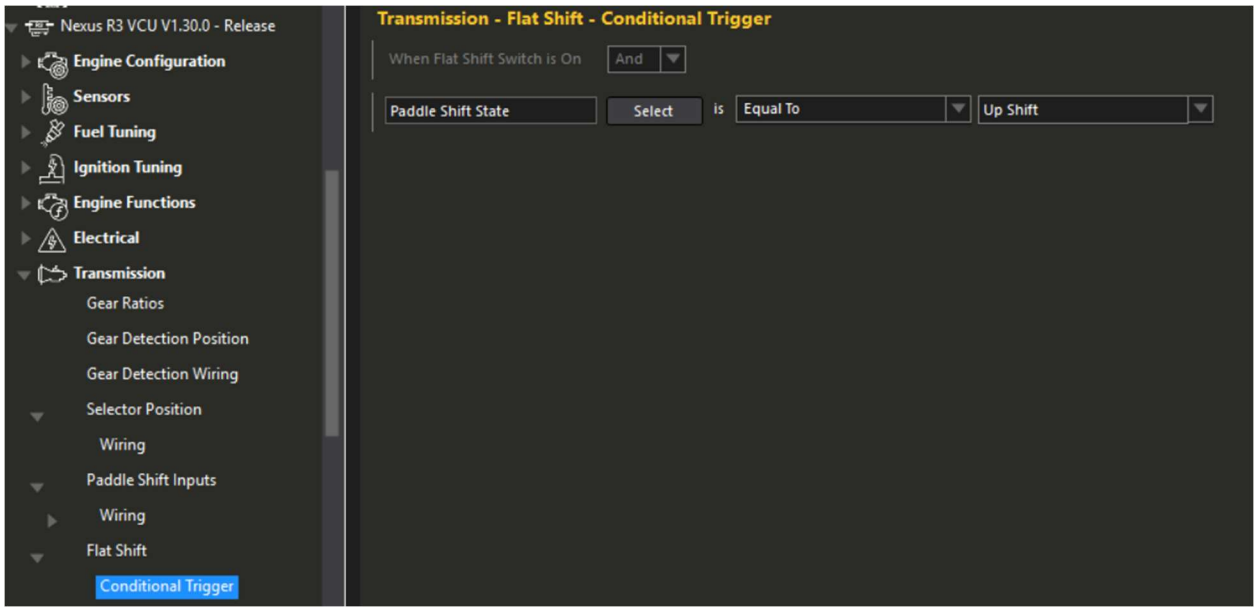
Flat Shift setup- Set all settings as below.





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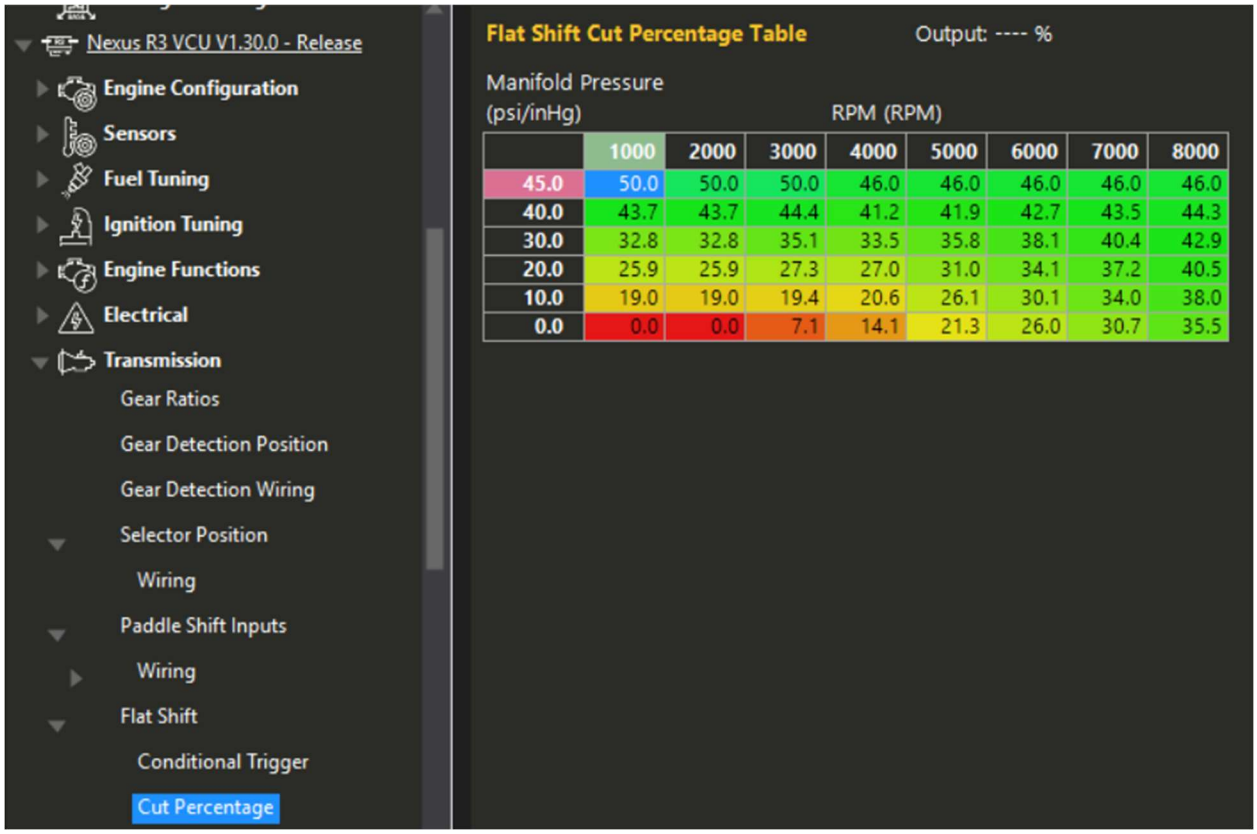

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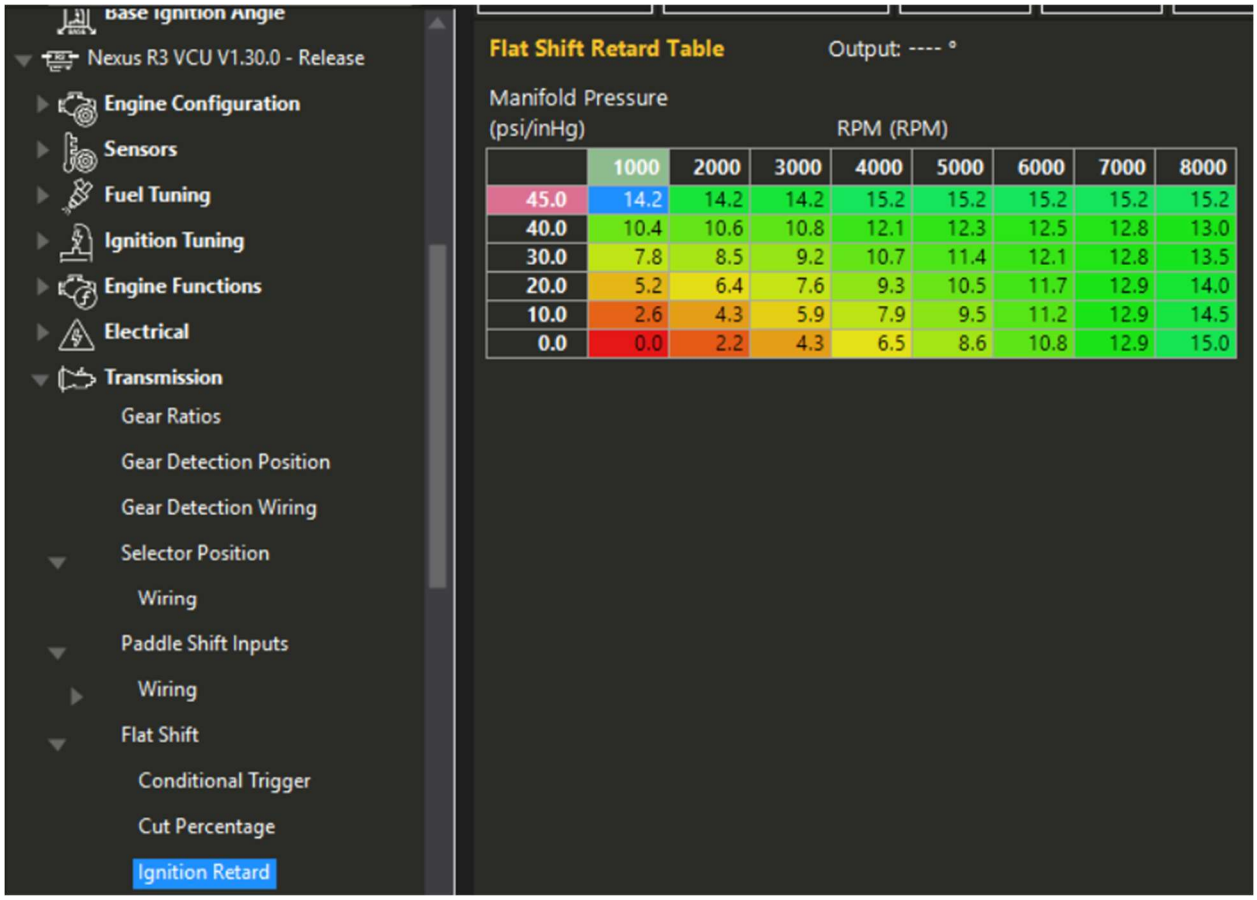

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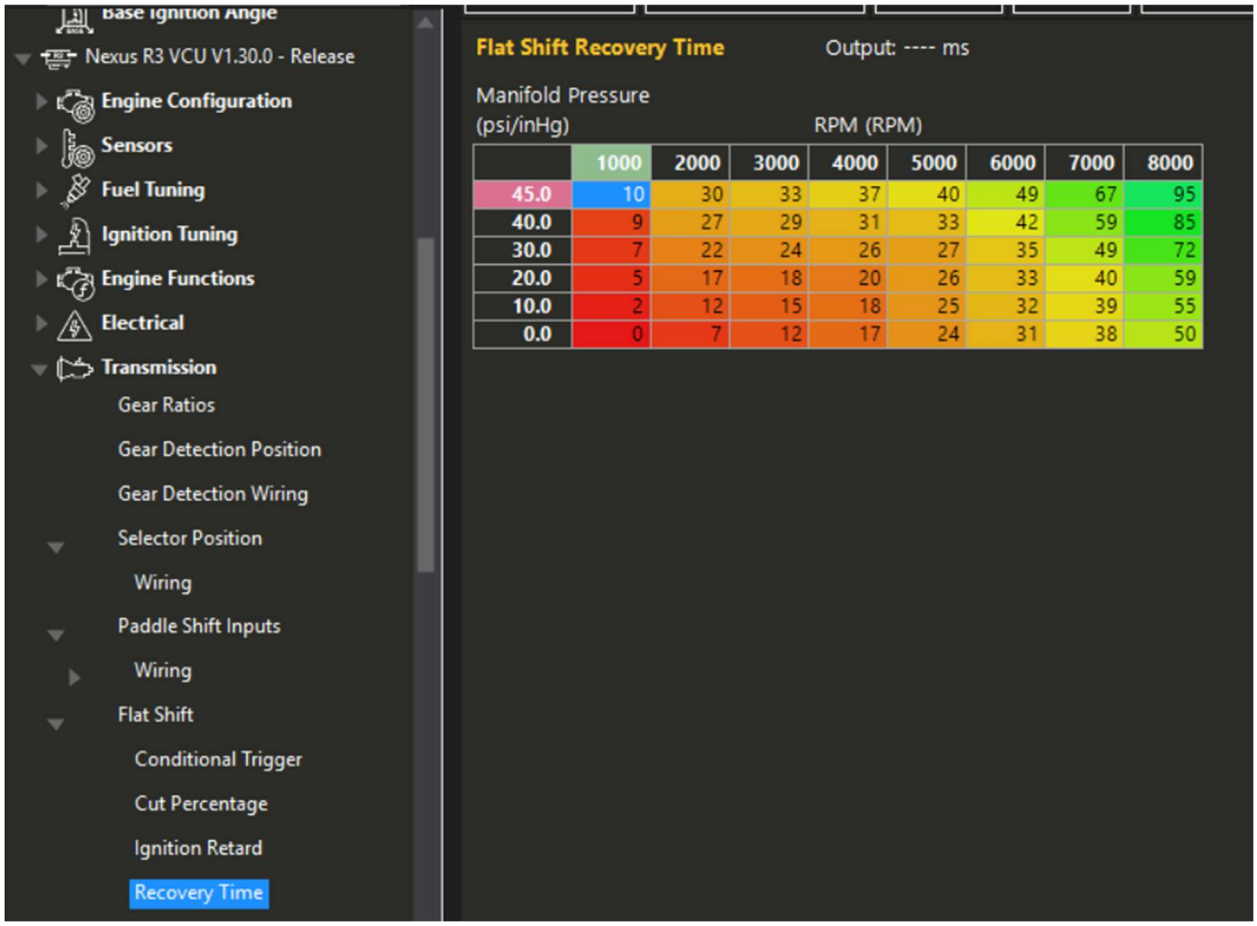

	1000	2000	3000	4000	5000	6000	7000	8000
45.0	10	30	33	37	40	49	67	95
40.0	9	27	29	31	33	42	59	85
30.0	7	22	24	26	27	35	49	72
20.0	5	17	18	20	26	33	40	59
10.0	2	12	15	18	25	32	39	55
0.0	0	7	12	17	24	31	38	50

RPM (RPM)	1	2	3	4	5	6	7	8
8000	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
7000	28.6	28.6	28.6	28.6	28.6	28.6	28.6	28.6
6000	27.2	27.2	27.2	27.2	27.2	27.2	27.2	27.2
5000	25.7	25.7	25.7	25.7	25.7	25.7	25.7	25.7
4000	24.3	24.3	24.3	24.3	24.3	24.3	24.3	24.3
3000	22.9	22.9	22.9	22.9	22.9	22.9	22.9	22.9
2000	21.5	21.5	21.5	21.5	21.5	21.5	21.5	21.5
1000	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0

The values assigned to shift cut, shift retard, recovery time and blip amount are all base line values and can be adjusted to clean up shifts if need be.

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Launch Control Setup- Enable Launch Control under Vehicle Functions then assign IO16A SPI4 as the wiring input as below.

Launch Control will enable whenever the transmission is put into Launch mode or Trans brake mode.