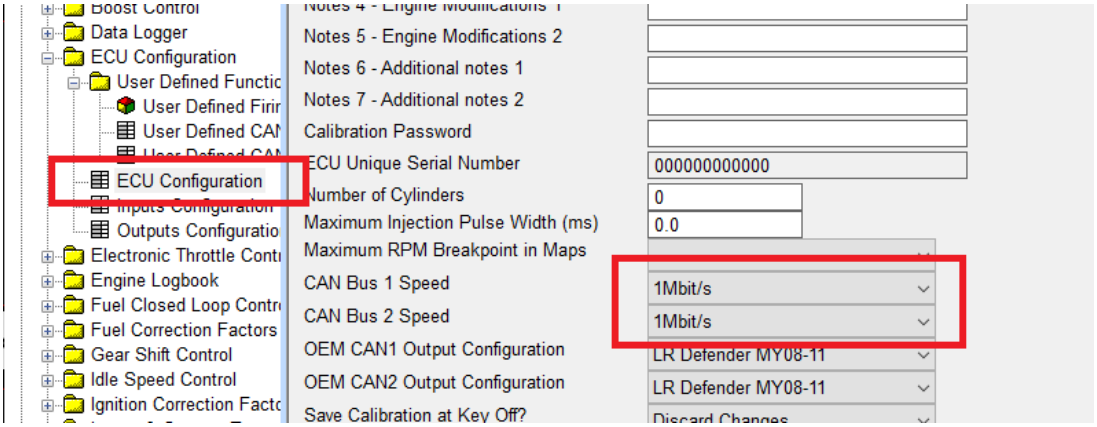
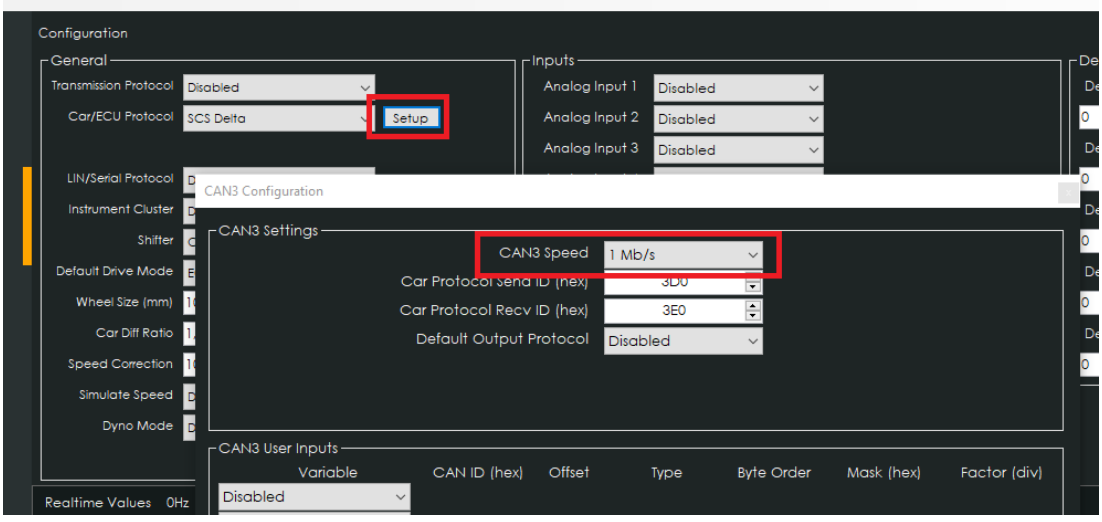
CANTCU – SCS Delta Integration

- Delta 700, 880, 900 and GDI6 ECUs with FW 01.06.2023 or newer
- CAN2.0B, Standard 11bit identifiers
- **CAN Speed** is configurable
- **CAN I/O Addressing** is configurable

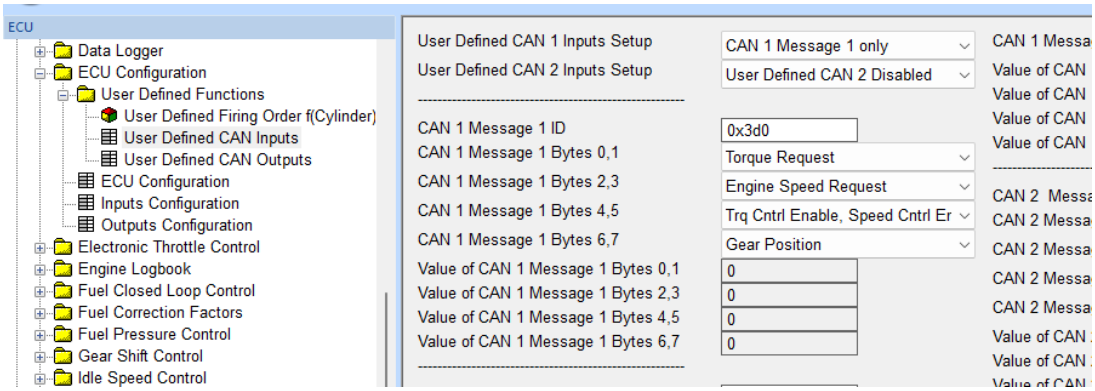
SCS Delta CAN Configuration

Select a matching CAN speed/frequency in both SXTune and CANTCU Configurator.

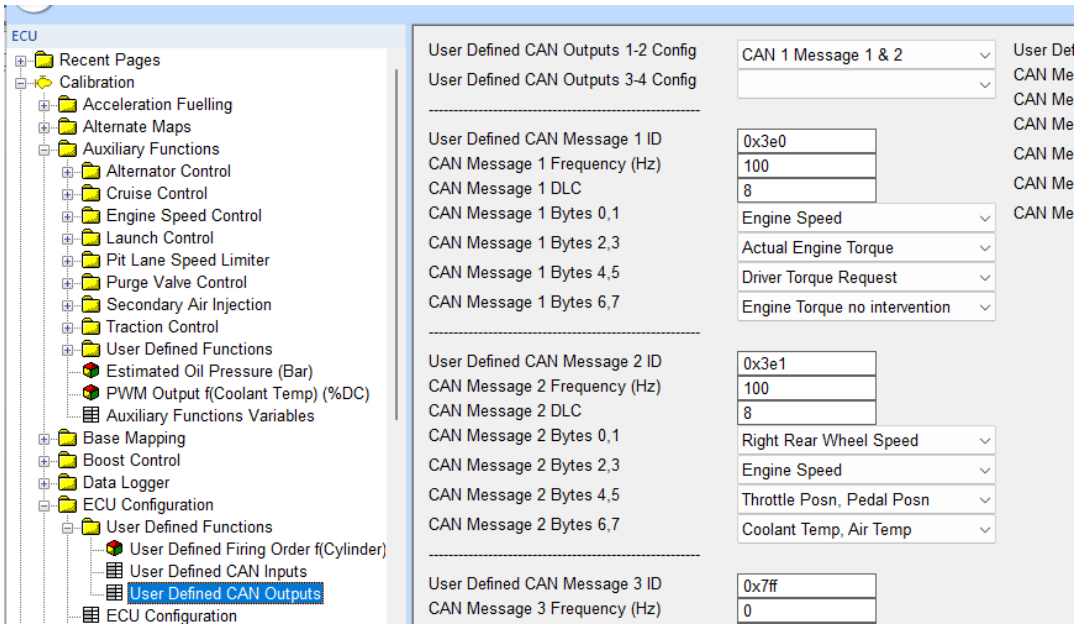




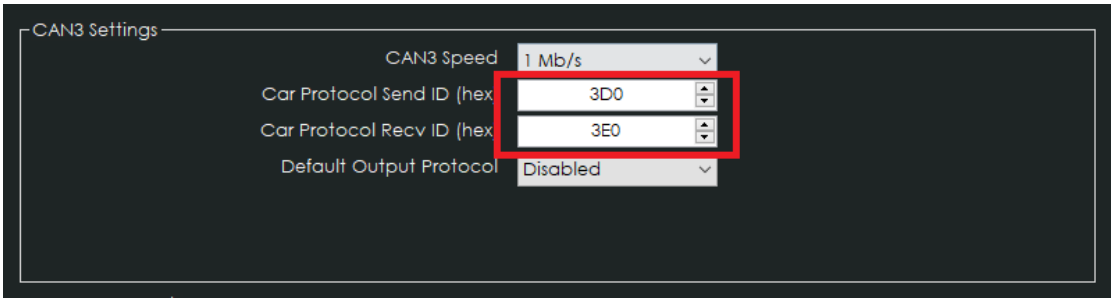
User defined CAN Inputs settings as below. Note that CAN 1 is selected, change to CAN 2 if required depending on which ECU CAN bus the CANTCU is connected to.



User defined CAN output settings as below. Note that CAN 1 is selected, change to CAN 2 if required depending on which ECU CAN bus the CANTCU is connected to.



Match the CANTCU **Send ID** and **Recv ID** to IDs used in SXTune.



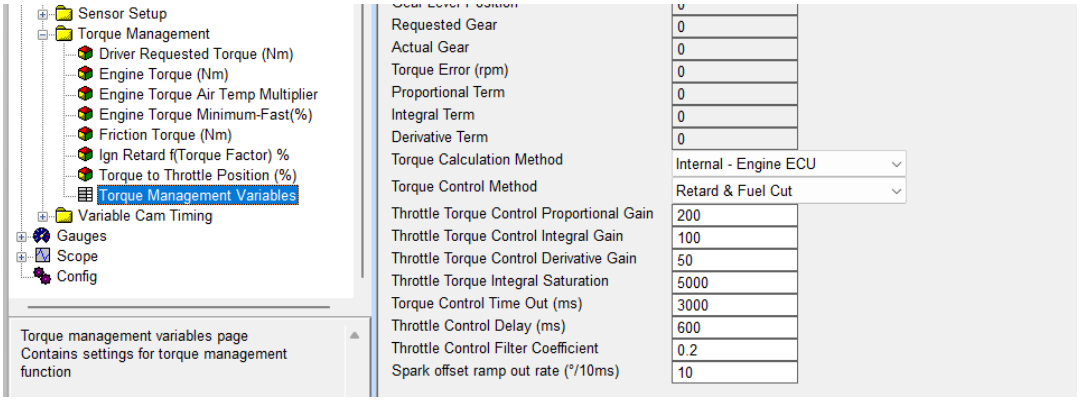
Torque Management Settings

NOTE!

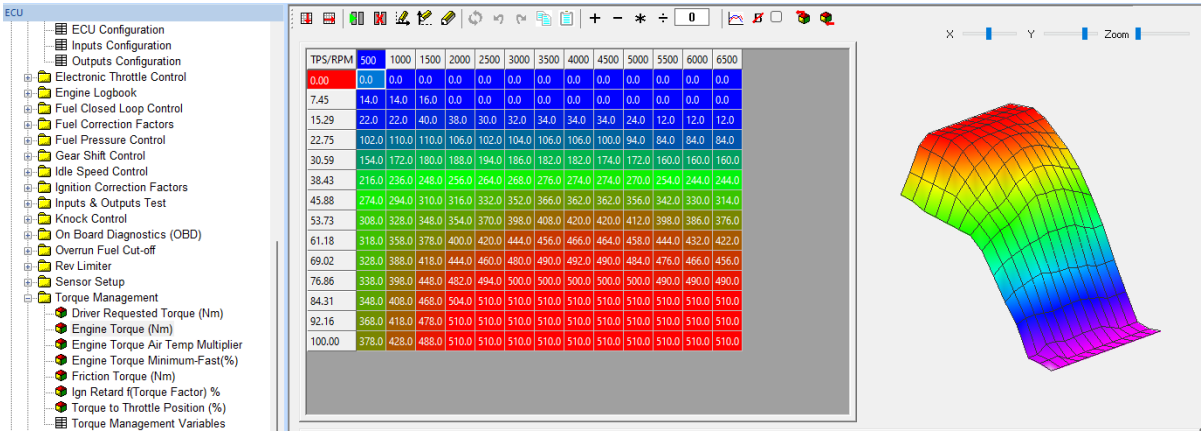
All tuning should always be done by a professional in a safe environment (track/dyno)

RPM Targeting (blips) on downshifts needs to be carefully tuned to avoid undesired behavior (overshoot/undershoot) of the blip. Especially on DCT transmissions, the RPM request sent from CANTCU to SCS Delta is heavily dependent on a correctly calibrated diff ratio/wheelspeed.

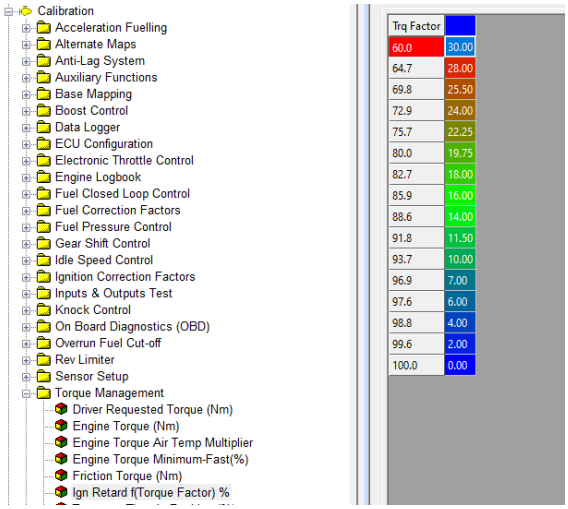
In Torque Management, set variables as below:



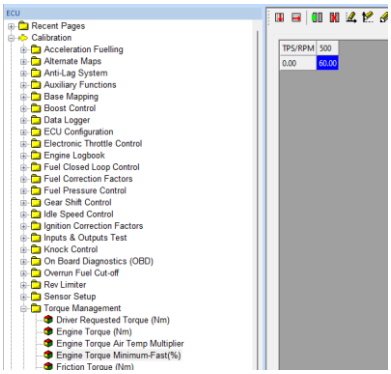
Example Engine Torque map. This map should be calibrated on a dyno or rolling road, and it can be estimated from a full load power curve. If transmission slip is experienced on low/medium load, increase the values in corresponding part of the map.



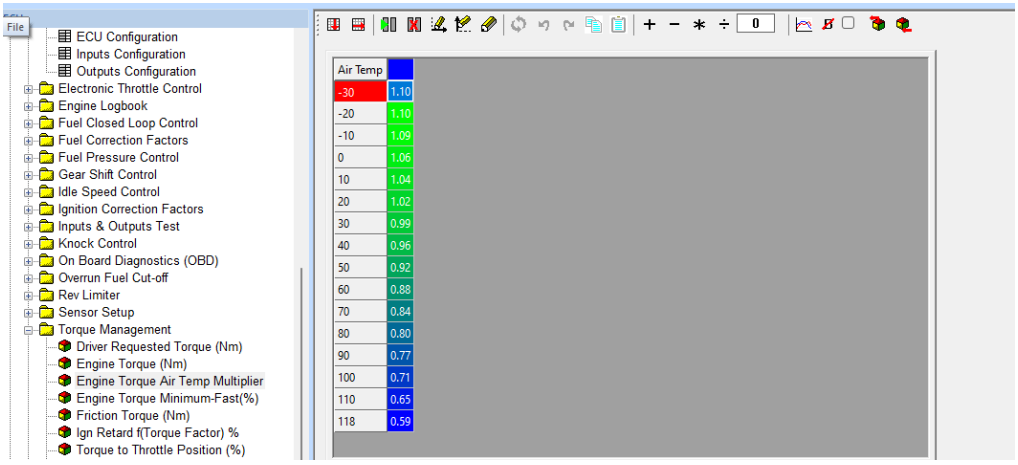
Ignition Retard f(Torque Factor) %. If torque reduction on upshifts feel too aggressive/excessive, decrease the values in this map.



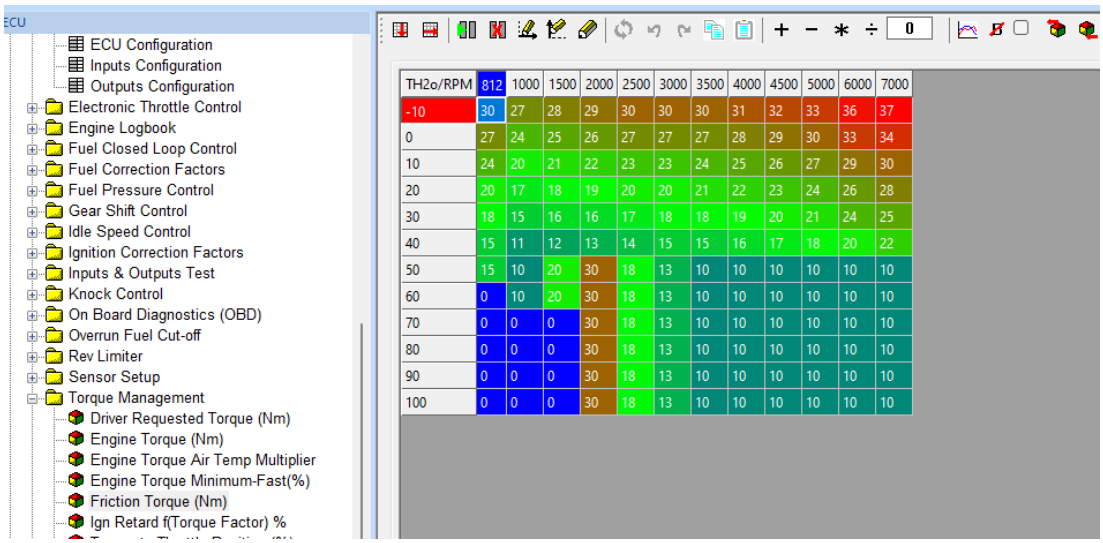
Engine Torque Minimum-Fast(%)



Engine Torque Air Temp Multiplier



Friction Torque example map



TH2o/RPM	812	1000	1500	2000	2500	3000	3500	4000	4500	5000	6000	7000
-10	30	27	28	29	30	30	30	31	32	33	36	37
0	27	24	25	26	27	27	27	28	29	30	33	34
10	24	20	21	22	23	23	24	25	26	27	29	30
20	20	17	18	19	20	20	21	22	23	24	26	28
30	18	15	16	16	17	18	18	19	20	21	24	25
40	15	11	12	13	14	15	15	16	17	18	20	22
50	15	10	20	30	18	13	10	10	10	10	10	10
60	0	10	20	30	18	13	10	10	10	10	10	10
70	0	0	0	30	18	13	10	10	10	10	10	10
80	0	0	0	30	18	13	10	10	10	10	10	10
90	0	0	0	30	18	13	10	10	10	10	10	10
100	0	0	0	30	18	13	10	10	10	10	10	10