

Dwell time vs volts [Percentage vs Battery]

Description: 100% at low voltage, as the battery voltage increases, the coil charge time needs to decrease accordingly

Usage: Change this table by increasing values between 9-17 volts to increase coil duty

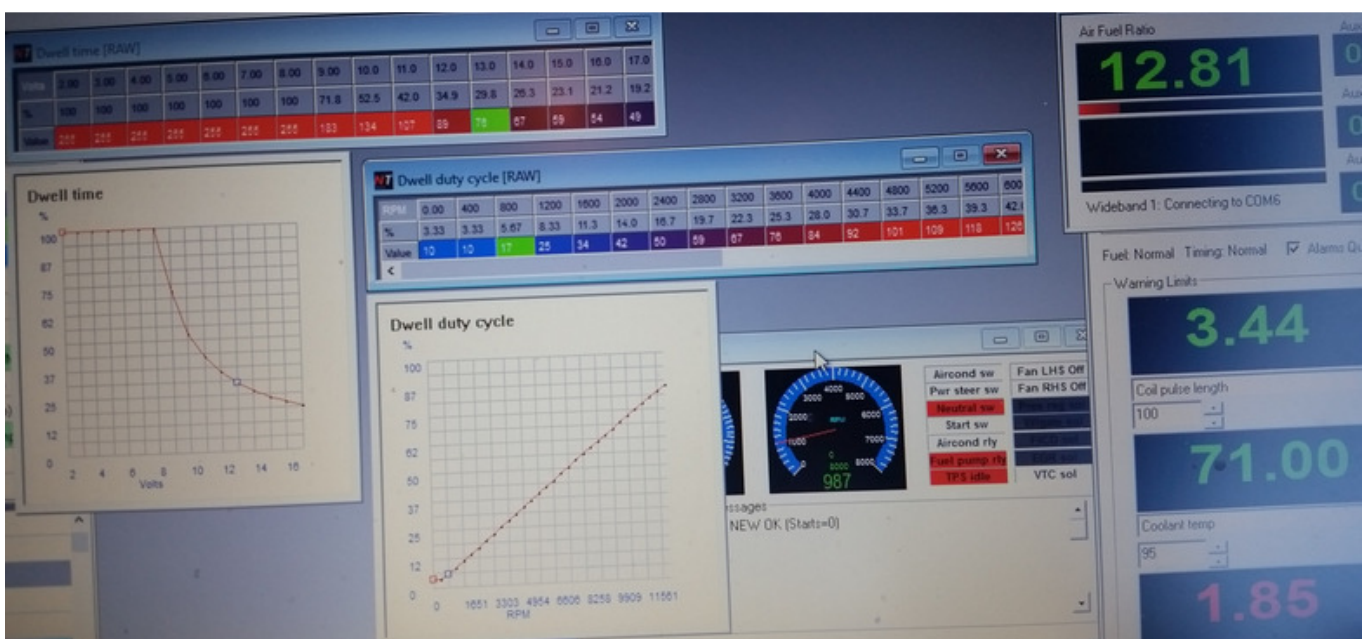
Note: Normal coil duty pulse with is 3.5ms around 800rpm

Dwell time vs RPM [Percentage vs RPM]

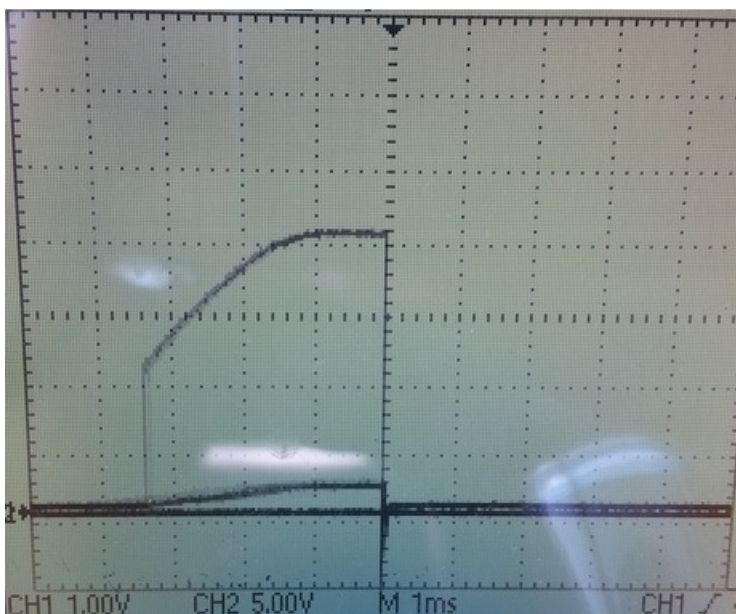
Description: This is an internal ECU pulse calibration table. As the RPM increases the pulse generator inside the ECU results in shorter pulses.

Usage: This table compensates for increased RPM by keeping the pulse size the same value (linear line). Normally would not need modification unless you need to change the pulsewidth in a specific PRM range

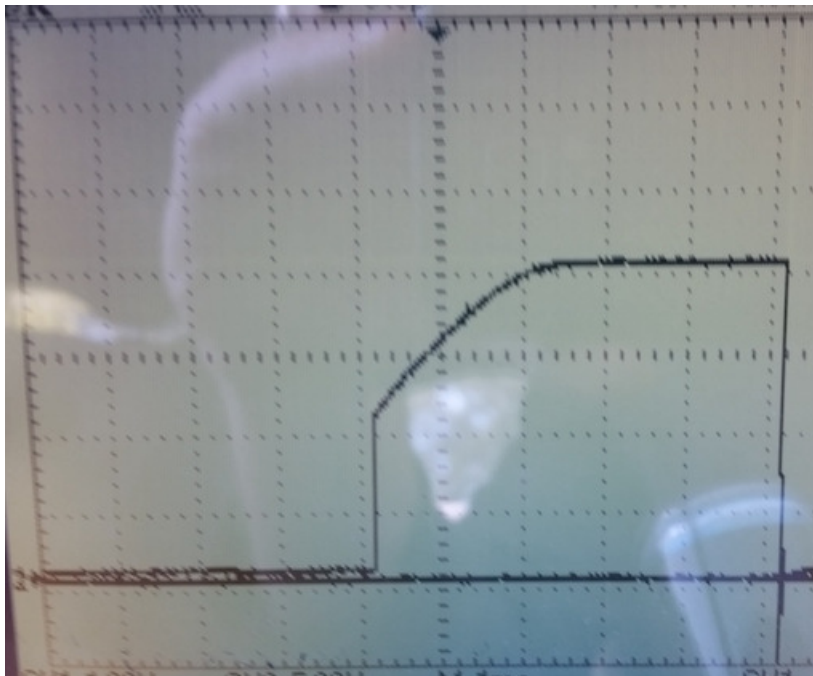
Image 1: Showing 3.44ms pulse at 987rpm and 13 volts



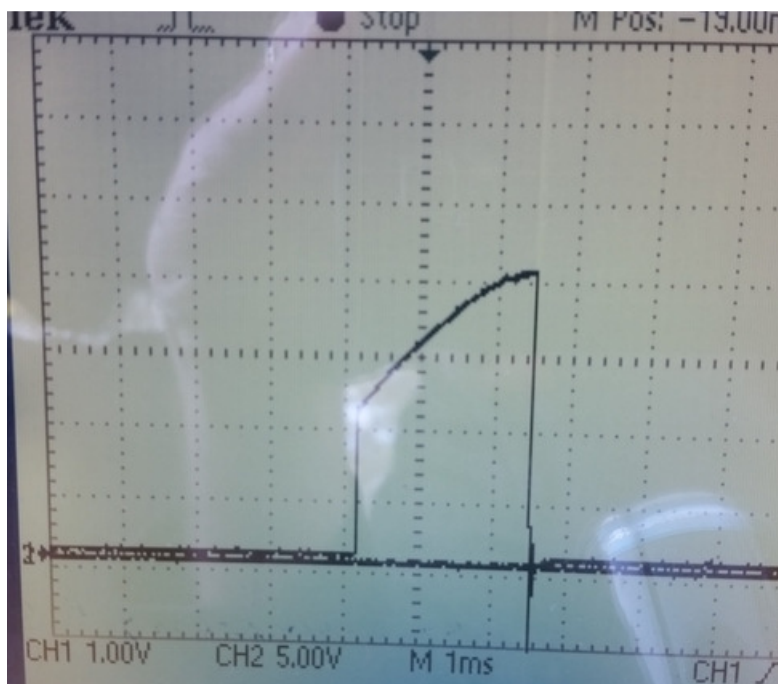
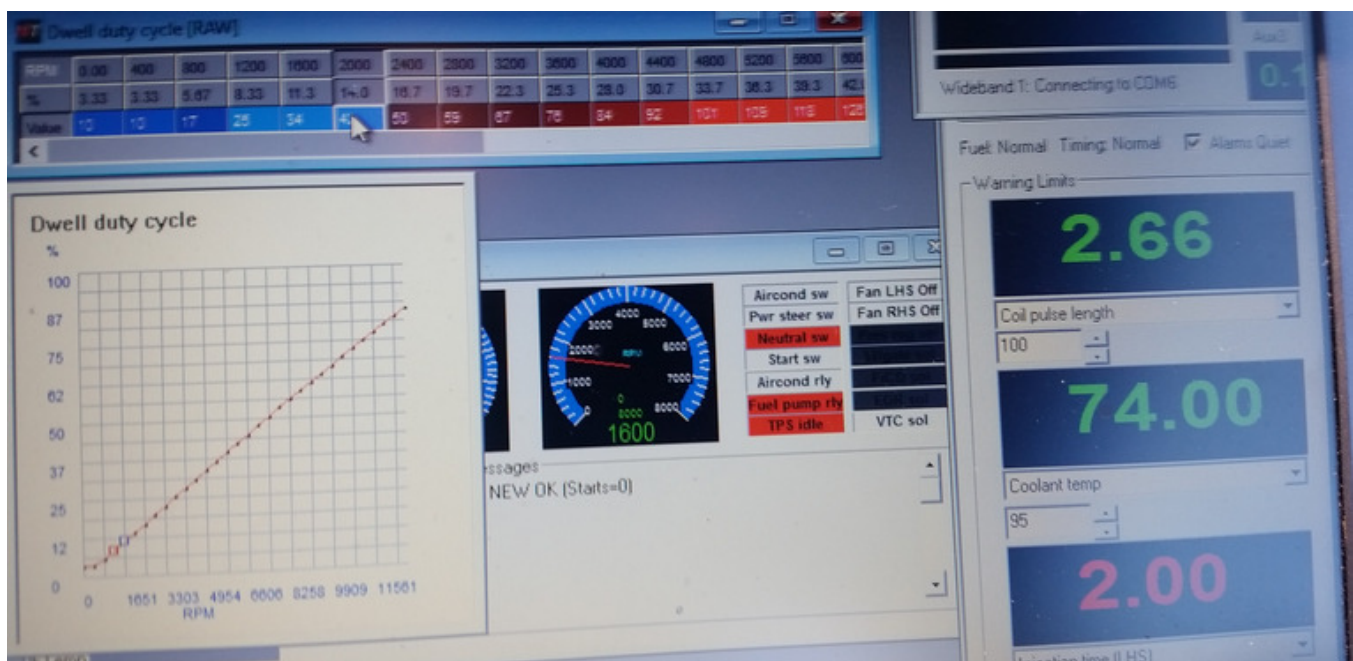
Scope output showing matching pulse length (Coil 1 on S14A SR20DET)



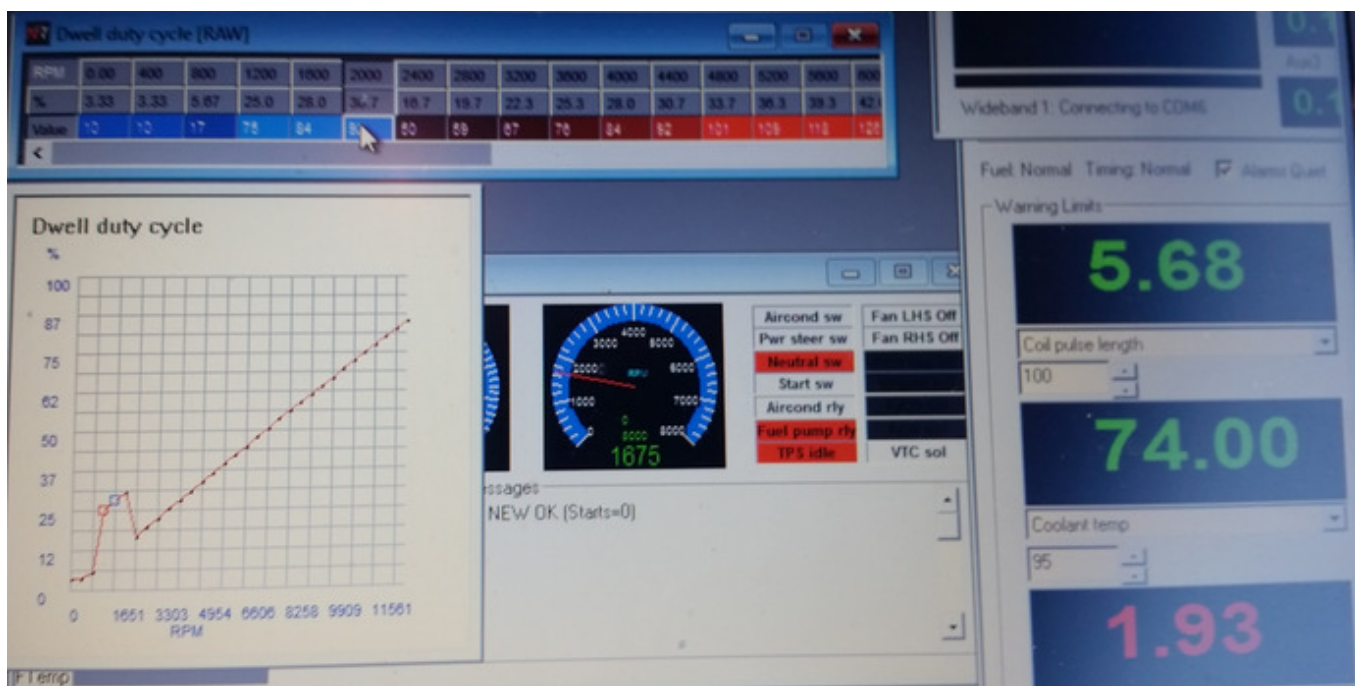
Increase dwell time at idle and check coil time increases @ 975 rpm



Change to 1600rpm and noted decrease



Increase dwell duty vs RPM at 1600rpm and noted dwell increase



Increase RPM to 5500rpm and pulsewidth reduces:

