

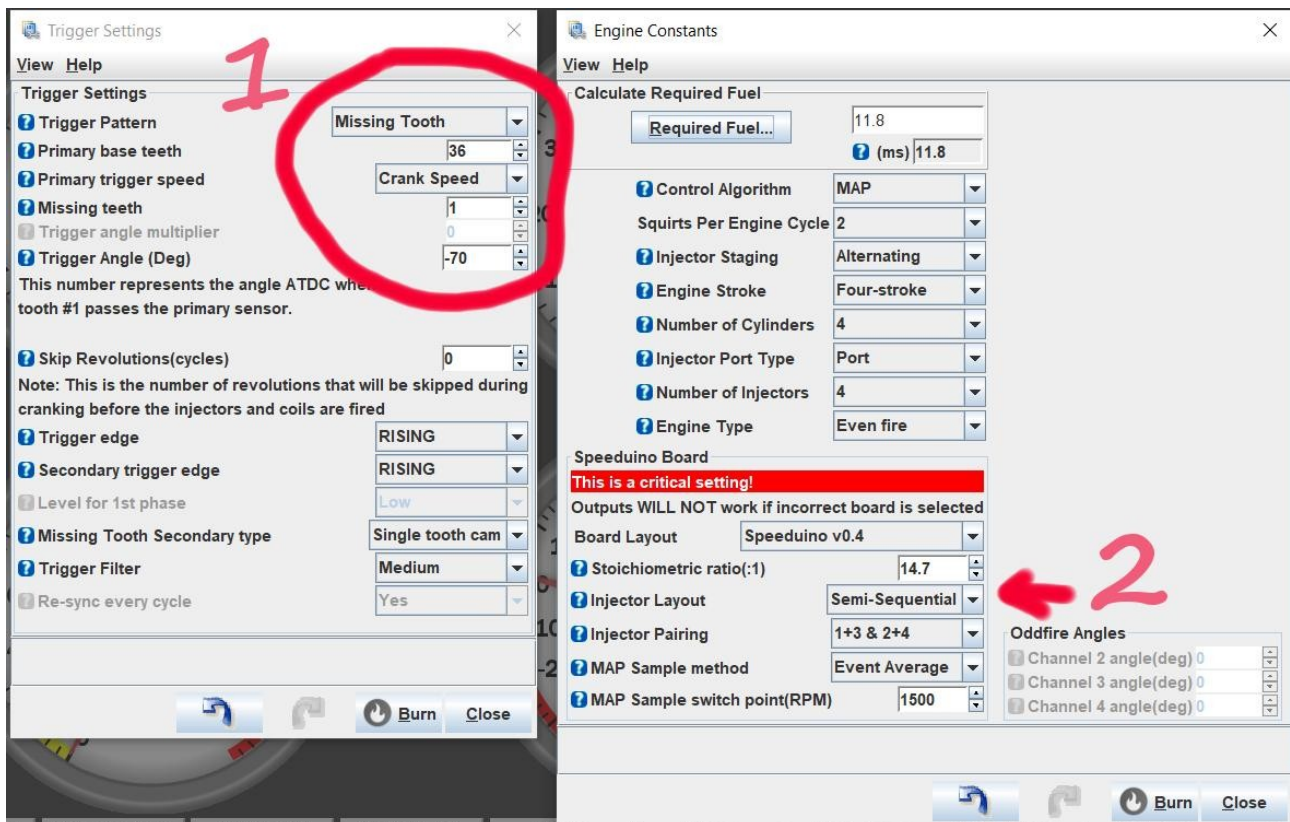
## Mazda Mx-5

### MiataSolutions 36-1 trigger wheel installation

Required tools and materials:

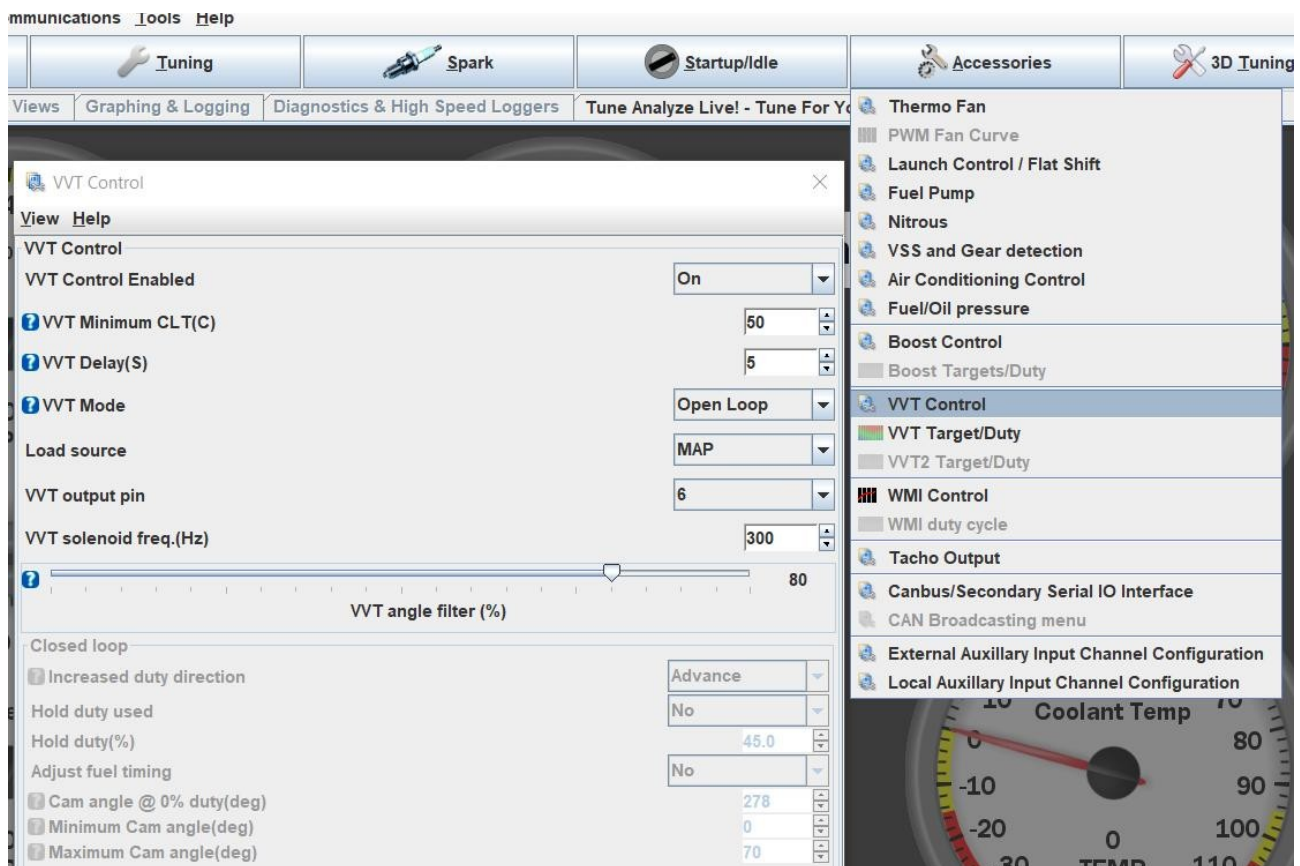
- Mazda MX-5 mk2 / mk2.5
- MiataSolutions 36-1 trigger with this manual
- typical tools

after mechanical installation of 36-1 trigger you need to reconfigure your ECU to be able to start engine. In case of Speeduino-based ECUs this will be as follows:



1. trigger setup
2. injector layout setup. In case of stock Speeduino firmware and unmodified cam tooth pattern only **semi-sequential** mode is possible. On sequential mode ECU will NOT sync and engine will NOT start

3. in case of 1.8VVT engine please note that VVT control can work only in Open-loop mode. Its not optimal but the only solution possible so far with this trigger pattern, on stock Speeduino firmware



4. After your engine has started warmi it up and check real timing (strobe light needed):

1. **Spark Settings – enable fixed/locked timing ON**, set 10 degrees
2. verify timing with strobe light
3. if out of spec adjust **Trigger Settings → Trigger Angle**
4. **after adjustment** set **enable fixed/locked timing OFF**

in case you need sequential fueling with this trigger wheel – to get good idle and low load behaviour with bigger injectors for instance - take a look at:

<https://www.miataturbo.net/speeduino-128/speeduino-fm-36-2-trigger-wheel-setup-109011/>