

KMiata K24A2 ECU Reflash

Thank you for purchasing a KMiata reflashed ECU! While this ECU is designed to be plug and play, there are some considerations as you complete your KMiata swap project:

1. This ECU is only designed to work with a 2004-2008 Acura TSX engine - K24A2. It is not recommended that it is used with any other engine. Ignition, air/fuel, and cam tables have all been reworked to provide power and reliability for your setup. The rev limiter is set to 8100 RPM.
2. In order to run this ECU, you must use a the KMiata Element spec conversion harness, as well as a 2003-2006 Element engine harness, charge harness and A/F sensor. No secondary oxygen sensor is used.
3. A 50 degree VTC gear upgrade is required to run our reflashed ECU with a K24A2. If you are running a 2004-2005 engine, a Tractuff 40 degree limiter pin must also be installed in the gear to protect against the possibility of piston to valve contact.
4. This ECU is designed to work with the factory 310cc injectors with fuel pressure set at 60 psi. NB Miatas have an in-tank regulator set to 60 psi from the factory. NA Miata owners will need to run an external fuel pressure regulator and gauge, and set fuel to 60 psi.
5. Premium fuel must be used, ideally 93 octane, but 91 will do if that is the best that's available.
6. All tunes are optimized for use with a Skunk2 Ultra Street intake manifold, 70mm throttle body, 3" intake piping, and 3" exhaust.
7. Since every engine and setup is a bit different, we recommend adding an air/fuel gauge to verify that your car's air/fuel ratios are in a safe range with our tune. Targets should be around 14.7 at cruise, and 12.5-13.0 at wide open throttle.
8. For your vehicle to run correctly, your TPS needs to be calibrated according to the factory Honda procedure. At closed throttle, it should read 0.48V, and wide open throttle should read 4.5V. Do not overlook this step!
9. Each ECU reflash is tailored to your vehicle based on the options selected at checkout. Please save your confirmation email and order number if you'd ever like us to provide the settings for you.
10. KMiata is not responsible for any damage to your engine from misuse of this ECU. This ECU is intended for off-road use only, and since every engine is different, it is the user's responsibility to set up the vehicle correctly and log A/F ratios to confirm proper functionality. Should any problems arise, please stop using the ECU and contact us immediately for assistance.