

## ecuDIY Engine Management



The ecuDIY Engine Management range is our new product line that replaces the Venus3 system. It carries a fresh brand and a refined business model, aimed specifically at supporting our dealers and installers. The goal is to drive more business to our partner network by offering customers a dependable, affordable, entry-level ECU system — one that competes strongly on price, reliability, and features within the local market.

The **ecuDIY EZ42B**, nicknamed '**The Badger**', is the flagship model replacing the Venus3. It features a fully automotive-rated processor and robust IGBT coil drivers, capable of handling demanding tasks with ease. After several months of testing by new installers and oval track racers, it has proven itself to be exceptionally reliable. The unit is housed in a cost-effective blue plastic casing that requires no additional cooling. It remains fully backward compatible with Titan, Venus (all versions), Pluto (all versions), and Saturn systems. Many Orion and Orion2 units that used P2 can also be easily converted to run on The Badger. It includes 8 coil drivers — including the GP outputs — making it a great choice for V8 engines requiring 4 coil and 4 injector drivers.

On the firmware side, The Badger introduces our latest fuel and spark logic. It is sold in three activation classes: Baseline, RacePack, and Spinning. Each has its own feature set and price point, allowing customers to choose only what they need. Once sold, the firmware is locked and cannot be upgraded or changed. This protects the product from tampering, limits second-hand resale disruption, and ensures dealers retain service value. Dealers who carry stock can select firmware levels at the time of sale.

The following features from Venus3 have been removed in The Badger, as they were deemed unnecessary for its target market:

- Dual Injectors
- Full Sequential Injection
- Dual Maps

**Baseline** is the most cost-effective option, providing basic fuel and spark control alongside engine protection. It excludes advanced features like Lambda control, Stepper Idle, and racing options. Ideal for budget-conscious customers and basic vehicle repairs, especially for older cars. The harness is simplified, using only what's needed. An optional internal altitude sensor can be added.

**RacePack** activates all advanced features including Lambda Control, Stepper Idle Control, Launch Delay, RapidFire (pops & bangs), AntiLag, FlatShift, and Spinning options. This firmware

can be installed on any Baseline hardware. Note that the RacePack harness includes additional wiring to support all sensor inputs. An optional altitude sensor is also available.

**Spinning** is a specialised version tailored for the spinning scene. It combines Baseline and selected advanced features, offering RacePack-like performance with a simplified harness. It includes a TuneBox that lets drivers adjust rev limiters and RapidFire settings live. Only one load sensor wire is required for either a MAP sensor or TPS. If the user needs full sensor support, they should opt for the RacePack version.

All firmware is tuned using the **DIYtune** software platform — a cleaner, more professional alternative to Hyperspace. DIYtune offers more tuning options, with non-applicable features automatically hidden or greyed out. It includes the Dashboard interface for easy updates and improved usability. Instructions to get started are available via the provided link.

Our **Pricing** model for ecuDIY differs from Spitronics. Products are sold at a dealer price without bundled support. This means you only pay for support when you need it. If support or training is required, it can be billed per hour under our SupportPack. When customers contact us to purchase, we direct them to the closest participating dealer. This gives you local support authority and potential new business. If a customer arrives at your shop with a unit, you may charge the SupportPack fee upfront, followed by your normal service rates. This approach ensures that the dealers doing the work get the benefit, not third parties. It also gives the customer the choice where he wants service from. Dealers who carry stock and reach monthly targets may also qualify for further discounts.

While this is an entry-level product with tight margins, it is not intended for resellers. The concept is to equip our installer and tuner network with a solid, low-cost product that brings more cars to your workshop for setup and tuning work. It's about driving service revenue — not just product sales.

### **Features Removed from Venus3**

The following features from Venus3 have been removed in The Badger, as they were deemed unnecessary for its target market and applications:

- Dual Injectors
- Full Sequential Injection
- Dual Maps

Thank you for your loyal support over the years. Please know that this product will continue to be backed by us for years to come.

**For More Information, please feel free to visit**

[www.ecudiy.com](http://www.ecudiy.com)

**or send an email to**

[support@ecudiy.com](mailto:support@ecudiy.com)