

## Defender 1000 ECU Programming

SKU(s): 004FC0110-004FC0112

### 2017-2019 Performance Features

- Rev limiter raised
- 100% throttle
- Improved throttle response in all modes (E-Gas Improved)
- Improved ignition timing advance optimized for 91 Octane
- Fueling adjusted for aftermarket components (intakes, exhaust, and race pipes) for optimal air/fuel ratios.
- No need to “Piggyback” fuel controller with our reflash for most bolt on mods.
- Engine speed TQ limiters removed “Shaft Saver Delete”
- V-Max deletes (speed limiter removed)



### 2020-2021 Performance Features

- Left foot braking for 2-foot operation
- Speed limits raised in high and low gear.
- Torque limits removed in high and low gear.
- High and low gear rev limits increased from 8300-9000 RPM.
- V-Max raised.
- Improved throttle response.
- Engine fans turn on at 192 degrees/ off at 186 degrees.
- Race-Start: No need to press the brake to start the engine.
- Each stage runs 91 octane.

Stage	Fuel Octane	Engine HP	Kit Components
Stock	91	60	N/A
	Requires: Stock components		
Stage 1	91	66	N/A
	Requires: Stock Exhaust		
Stage 2	91	69	N/A
	Requires: High Flow Muffler		
Stage 3	91	72	N/A
	Requires: Race Bypass Pipe and High Flow Muffler		



## INSTALLATION INSTRUCTIONS

Thank you for choosing Evolution Powersports products. If you require further assistance, please call our Tech Support @ (715) 247-3862

**Note:** This product is exempt from the emission standards and related requirements of 40 C.F.R. § 1051 as provided by 40 C.F.R. § 1051.620, and California law [e.g., vehicle code §§ 27156 and 38391]. This product is sold only for use in connection with EPA certified, purpose-built, nonroad vehicles used solely for closed course, nonroad competition/racing and not used for any recreational purpose or on public highways or right of ways maintained by and open to the public. This product is sold only in connection with machines that do not fall under state and/or federal noise or emission standards/regulations. Purchasers who/that purchase this product represent and warrant that the product is purchased only in connection with EPA -certified, emission-regulations-exempt and noise-regulations-exempt competition/racing vehicles as interpreted under applicable state and/or federal law. Questions: Call Evolution Powersports at (715) 247-3862.

WE'D LOVE TO HEAR FROM YOU - LEAVE A REVIEW & STAY CONNECTED!   