



MotoAmerica Technical bulletin

10-2022

MotoAmerica approved "Twins Cup MoTeC M800 ECU" – Updated 10.27.2022

The MotoAmerica approved "Twins Cup MoTeC M800 ECU " system will be based on the MoTeC M800 hardware. The ECU uses the standard Motec version 3.54E software and i2 Standard data analysis software available for download at www.motec.com at no charge. The ECU is sold with relevant activation codes (1MB logging, Advanced Functions, Single Lambda), an IGN4 ignition driver, and Bosch LSU 4.9 exhaust lambda sensor. The total cost is \$3,070 + tax and will be available for purchase at any US MoTeC dealer. The units are available for purchase now. Replacement parts are available at normal retail price.

MotoAmerica "Twins Cup" Item List:

Line No	Item Number	Unit	Ordered	Shipped	Back Ordered	Price	Amount
1	M800 M800 ENG MANAGEMENT SYSTEM INC. 1MB LOGGING & SINGLE LAMBDA		1.0000	0.0000	0.0000	1,950.00	1,950.00
5	M880 ADV EN M400/600/800 ADV FUNC SN: INC. GCIC, TC, LC, ORB		1.0000	0.0000	0.0000	345.00	345.00
3	M UTC USB TO CAN CABLE ADAPT 6' COMMS CABLE		1.0000	0.0000	0.0000	295.00	295.00
6	M 0258 001 SENSOR LAMBDA LSU 4.9 BOSCH LSU 4.9 LAMBDA SENSOR		1.0000	0.0000	0.0000	150.00	150.00
7	MIGN4 IGNITION DRIVE UP TO 4 COILS 4-CHANNEL IGNITION AMPLIFIER		1.0000	0.0000	0.0000	330.00	330.00
<p>All claims for errors or damage must be made within 5 days of receipt of goods. A 15% restocking charge will be made when goods are returned to us where no error on our part exists. No returns for any reason after 30 days. Past due amounts subject to a 1.5% per month service charge (18% per annum). All parts related to vehicle emissions or safety are sold for Off Highway racing use in unlicensed vehicles which may never be operated on public roads. See Us at: http://www.motec.com</p>						<p>Net Order: 3,070.00 Less Discount: 0.00 Freight: 0.00 Sales Tax: 0.00 Order Total: 3,070.00 USD</p>	
<p>All amounts are in U.S. Dollars</p>							



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Engine Tuning Features

- Windows based [ECU Manager](#) tuning software with user definable screen layouts
- Individual cylinder tuning of both fuel delivery and ignition timing
- Suits modern engines, including those with coil per cylinder ignition
- 4D fuel and ignition tables for engine mapping based on three channels ‡
- Selectable channels for table axes ‡
- Fully configurable axis points on all tables ‡
- Highly configurable crank and cam trigger inputs to suit almost all OEM sensors and tooth patterns
- On-board Single Wideband Lambda sensor control with an optional second channel

Additional Distinct Features

- Suitable for engines requiring the latest complex control functions, such as:
 - Continuously variable camshaft control (up to 2 inlet and 2 exhaust cams with optional upgrade code)
 - Drive by wire throttle control (Single servo with optional upgrade code)
- Capable of all other modern control functions, such as:
 - Traction control
 - Overrun boost enhancement (anti-lag)
 - Gear change ignition cut (flat shifts)
 - Boost control
 - Nitrous injection
 - Dual stage injection (Hi/Lo injection)
- Fully configurable sensor inputs including custom calibrations
- Configurable receiving and transmitting data via the CAN bus
- Capable of receiving data from multiple Lambda measurement devices via CAN
- Integrated advanced diagnostics, including injector & crank trigger diagnostics
- Switchable between multiple configurations
- Ref/Sync capture displayed on the built-in digital oscilloscope

Data Acquisition

- Internal data logging with fast download via CAN (Level 1: 1 Mb, Level 2: 4 Mb)
- Three engine histogram logs including a tell-tale log ‡
- State of the art **i2 Standard** or optional upgrade to **i2 Pro** data analysis software

Advanced Functions

- Traction Control and Launch Control (2, 3 or 4 wheel)
- Gear Change Ignition Cut (flat shifts)
- Overrun Boost Enhancement ‡ (anti-lag)



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Optional Upgrade : Continuously Variable Camshaft Control

- Enables camshaft control with each cam independently adjustable in 0.5 degree increments based on RPM and load.

Optional Upgrade : Drive by Wire Throttle Control

- Enables control of the throttle body actuator by interpreting the driver's pedal input via sensors. Compatible with most OEM electronic throttles.

Optional Upgrade : Servo Control

- Allows the use of a 3D table to control a fast response, high torque DC servo or stepper motor.

Please contact technicaldirector@motoamerica.com with any questions



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