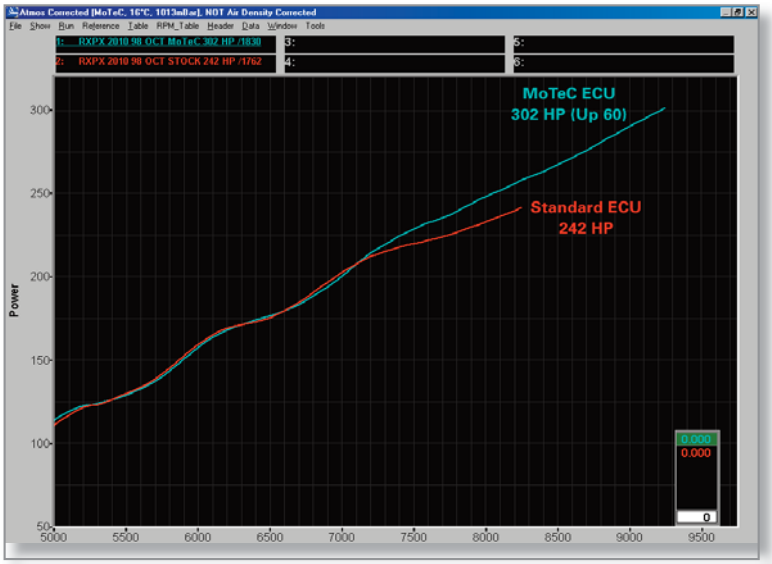
# PLUG-IN ECU KITS FOR PERSONAL WATERCRAFT

MoTeC PWC Plug-In ECUs are fully programmable, direct replacements for factory ECUs on a number of popular PWC models. The kits are based around an M400 Marine ECU which is fully polyurethane-potted, making it specifically suited to the watercraft environment.

Plug-Ins are convenient and cost effective, requiring minimal installation expertise. They are supplied in complete kits with an adaptor wiring loom, mounting kit and any communication modules required to retain factory features. The ECU simply plugs into the PWC wiring harness using the original sensors and fuel system. Tuning maps that have been optimised for each particular PWC model are also supplied.

Several optional upgrades are available to customise and grow each system. These additional features are activated through a simple password at any time when required.




## OPTIMISING SEA-DOO PWC POWER WITH BOLT-ONS

MoTeC recorded significant performance gains on a standard Sea-Doo 4Tec Engine during dyno testing using the MoTeC M400 ECU and bolt-on adapter loom. *(see results, left)*

Once the MoTeC ECU was fitted, the engine was left completely standard, other than lifting the fuel pressure by 14 PSI. Testing showed an impressive gain of 60 HP.

Further testing with other readily available bolt-on parts netted figures well over 350 HP on pump fuel.

The engine, also used in the latest RXT-X and iS models, was calibrated to work in conjunction with the new iBrake and on-board GPS systems, allowing MoTeC customers to make full use of Sea-Doo's new intelligent technology.

## HARDWARE FEATURES

- Specially engineered waterproof M400 Marine ECU
- Convenient, customised plug-in wiring looms
- Anti-vibration mounting kits make installation easy
- Communication modules integrate with factory features

## ENGINE TUNING FEATURES

- Windows based ECU Manager tuning software with user definable screen layouts
- Individual cylinder tuning of both fuel and ignition
- Selectable channels for table axes and fully configurable axis points on all tables
- Free Wideband Lambda and data logging for the first eight hours to assist with tuning

## DATA ACQUISITION

- Internal data logging (500 kB) with fast download via CAN
- Three engine histogram logs including a tell-tale log
- State of the art **i2** data analysis software
- Telemetry and remote logging options

## ADDITIONAL DISTINCT FEATURES

- Communicates directly with OEM dashes
- Capable of modern functions, e.g. drive by wire, overrun boost enhancement (anti-lag), launch control, boost control
- Fully configurable sensor inputs including custom calibrations
- Configurable receiving/transmitting data via CAN
- Capable of receiving Lambda data from multiple devices

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# PWC PLUG-IN ECU KITS AVAILABLE NOW

## YAMAHA FX-SHO, FZS/FZR

- M400 Marine ECU*
- Optimised tuning map
- Installation kit including:
  - Plug-In adaptor loom
  - KTC (K-Line To CAN) module
  - Immobiliser bypass module
- Rubber-lined ECU mounting brackets
- Mounting bolts
- Rubber backing pad

YAMAHA

## KAWASAKI ULTRA 250X/260X

- M400 Marine ECU*
- Optimised tuning map
- Installation kit including:
  - Plug-In adaptor loom
  - KTC (K-Line To CAN) module
  - KPE (Pulse Extender)
- Rubber-lined ECU mounting bracket
- Mounting bolts and screws
- Ignition mounting plate

KAWASAKI

## SEA-DOO RXP/RXP-X/RXT (2004-09)

- M400 Marine ECU*
- Optimised tuning map
- Installation kit including:
  - Plug-In adaptor loom
  - STC-S (Serial To CAN) module
  - DMCF Dual Mag Converter
  - IGN4 Ignition Module
- ECU mounting plate, brackets and bolts
- Anti-vibration mounts
- Rubber backing pad

## NEW SEA-DOO 2010 RXT-X & iS

- As above but uses STC-SX Serial To CAN module and waterproof relay, excludes DMCF Dual Mag Converter

SEA-DOO

## HYDROSPACE S4

- M400 Marine ECU*
- Optimised tuning map
- Installation kit including:
  - Plug-In adaptor loom
  - Bosch Ignition Module 200
- Rubber-lined ECU mounting bracket
- Mounting bolts and screws
- Mounting plate drill template
- Rubber backing pad

HYDROSPACE

*On request, PWC Plug-In ECU Kits can be supplied with M800 Marine ECUs.