

## New Eagle OBDII handler Bluetooth-CAN

Wireless Display and Service Kit

### Datasheet

Revision 001

5/9/2013



## DESCRIPTION

The New Eagle OBDII Handler Service Tool is a set of hardware parts and software that is designed for wireless real-time monitoring from a control module to a mobile device or tablet. The kit includes a user-defined PID (Parameter ID) set, a Bluetooth™ adapter with a harness, and a Motohawk® OBDII software library that reads and assigns PIDs dynamically according to the OBD Protocol. The New Eagle OBDII handler service tool is configured to monitor data from a Motohawk control module and other devices that follow OBDII protocol.

## FEATURES

- The Motohawk OBDII software library reads requested data from ‘Torque’ app, assigning the PIDs dynamically according to the user-defined PID set. It then sends it out according to the OBD protocol.
- The tool not only can process the standard PID request, but also allow customers to create custom PIDs based on their requirements. The PID set defines parameters in terms of parameter name, Mode & PID code, equation, units, min value, max value, header, data bytes, scale and offset.
- This user-defined PID set is easily loaded to the ‘Torque’ app on the Android™ mobile device or tablet in order to access the defined signals from the control module and display them as gauges.
- The user-defined PID set is also used to load the desired signals into the Motohawk software space via the library.

## Connections

The Bluetooth Harness is designed to connect to the controller (ECM) and Torque Application. Figure 1 shows the Bluetooth Harness Schematic. The OBDII connector connects to Bluetooth adaptor that communicates with the Torque App by Bluetooth. While the smart craft connects to a junction box that links to the controller by CAN link. Figure 2 shows the hardwire connection of the whole system.

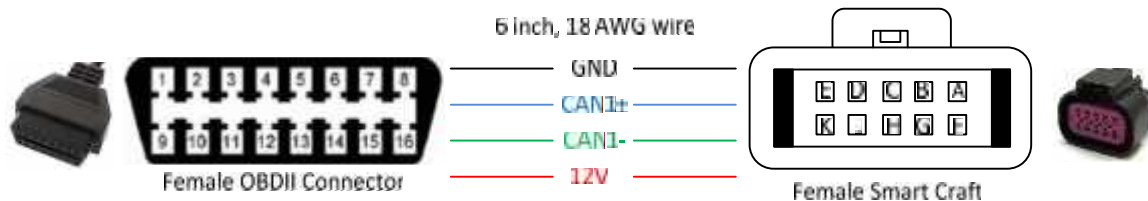


Figure 1 – Bluetooth Harness Schematic



Figure 2 – The OBDII Bluetooth-CAN hardware connection