# VBOX
## MOTORSPORT

# Vehicle CAN Database

MoTeC
M1 Series

# Overview

Racelogic have acquired CAN signals for customers to use with VCI (Vehicle CAN Interface) products. This information is available by listening on the relevant CAN bus on the vehicle and interpreting the messages to form easy to use information which is then available for data logging.

# VBox Video HD2 Users

Users of VBox Video HD2 will find this vehicle available to be selected via the VBox Video setup software which can be downloaded from our website. The software is supplied with instant access to the CAN information for a large array of vehicles and is kept automatically up to date as new vehicles and signals are added (Subject to internet connection).

To start using HD2 with your vehicle simply follow the steps below:

1.      Open VBox Video Setup
2.      Click the "Settings" menu option
3.      Select "CAN"
4.      Select "Vehicle database" under "Source"
5.      Select "MoTeC" and "M1 Series"
6.      Tick the signals you wish to use

# Use with other Racelogic Products

The signals used for this vehicle/ECU are not available for use in non HD2 Products.

# Wiring Connection

In order to connect to a MoTeC M1 Series ECU the VCS output needs to be enabled in the ECU on the relevant CAN bus connected to the Racelogic Unit.
This is done through the MoTeC M1 Tune software and enabling VCS Mode in the calibration of the ECU and then setting the VCS CAN Bus.
More information can be found on our website.

PLEASE NOTE: This information is provided as a general guide to CAN Bus wire colours only and colours may be subject to change without notice. Racelogic accepts no responsibility for damage or malfunction caused by incorrect wiring of its products to a vehicle. Any connection to a vehicle CAN Bus should be done by a trained automotive technician.

## CAN bus Connection

The CAN bus must be configured at a baud rate of 1M and with CAN Acknowledgement enabled and with CAN Termination enabled.

## Cable - VBox Video HD2

To connect the HD2 system to a vehicle CAN bus system using a bare wire, an RLCAB015L cable must be used.
Click here for a cable drawing including PIN outs for the RLCAB015L.
Note: If the connection needs to be made using a bare wire interface with the CAN High and Low outputs of the vehicle, we strongly recommend contacting a qualified auto-electrician to perform the fitting.

## Cable - Other Racelogic Products

The signals used for this vehicle/ECU are not available for use in non HD2 Products.

# Available CAN Channels

The following signals are available for selection on our HD2 Product, these signals may not be available on other Racelogic Products:

| Signal | Default Units |
|---|---|
| Brake Pressure | kPa |
| Engine Speed | rpm |
| Gear | |
| Indicated Lateral Acceleration | g |
| Indicated Longitudinal Acceleration | g |
| Indicated Vehicle Speed | km/h |
| Steering Angle | ° |
| Throttle Position | % |

Note: not all signals listed above will be applicable to all variants of this vehicle and so may not be available for your specific vehicle.

# Support

If any data contained in this document is incorrect or for further support please visit our website here:https://www.vboxmotorsport.co.uk/support