



# RaceSafe H2O® Fitting Kit Instruction Manual – Vers: 1.0

Expect update with graphics on Wednesday, 31 July 2013

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## Disclaimer

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## RaceSafe H2O® Fitting Kit Components

The RaceSafe H20 Fitting Kit includes:

- RaceSafe H20 Installation and Fitting Kit Instruction Sheet;
- 3 in 1 Marine Antenna with Leads (options for stick on or bolt through, selected when ordering), with bolt on being the preferred method.
- 6 – 24v hard wiring loom with plug (length selected when ordering to include 300mm spare cable at mounting point.)
- 1 flat mount with 25mm ball joint (to be bolted through dash)
- 1 adjustable clamp/knuckle (short of long to be selected when ordering).

(The RaceSafe H20 Display Unit is not a part of the fitting kit and will be available at each race to collect)

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## 12 Volt Power Supply (Please read and understand this section carefully)

RaceSafe H20 requires a continual reliable power supply from 9 to 28 volts DC.

For your safety and continuity of service, it is imperative that the unit is connected to an **un-switched** supply on the battery positive terminal or the battery positive side of the isolation switch, **insure that power is supplied to the unit at all times. Do not use an ignition switched power supply.**

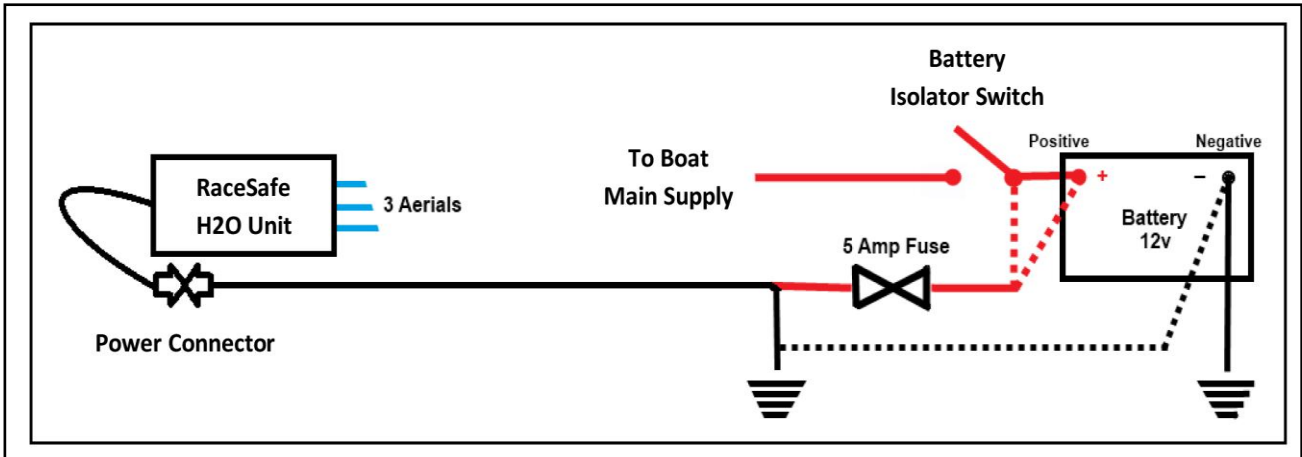
We recommend that a 5 amp blade type or similar quality fuse is used at the battery supply end of the RaceSafeH20 power lead.

**0 volts or Battery negative can be picked up at any suitable earthing point providing the isolation switch does not switch the negative side of the battery.**

The RaceSafeH20 unit has an internal battery that is kept charged via the boats power supply, it is only there as a reserve supply to power the unit in an accident situation where the boats power supply is interrupted. ie: boat battery is smashed or dislodged.

As the RaceSafe H2O unit is aware of movement and its location; it will automatically go into power save/sleep mode 5 minutes after loss of movement is detected, however, the unit will continue to function is when it is sending Hazard type signals while on course. The unit will be "woken" up by pressing any button or by movement of the boat.

**Connection Diagram.**



**Photos of Connections and Terminals**



A minimum of 300mm of RaceSafe Power Supply Cable and Antenna Leads should be left at the unit mounting bracket location behind the unit.

## Unit Mounting

The Standard mounting method for the RaceSafe H20 unit is on a Ram type Ball with a 50mm x 75mm flat base, bolted through the dash with a 3mm aluminium backing plate, in a location easily seen and accessible by the driver. Photographs of the best mounting options and positioning will be supplied on 31 July 2013 and with the fitting kit instructions upon delivery.

### The RaceSafe H20 Marine Antenna leads are connected as follows

- 1: On the 3 or 4 in 1 Marine Antenna, the lead labelled "WiFi" is connected to the corresponding terminal labelled "WiFi" on the RaceSafe H20 unit, (it is Right Hand Thread), the terminal may be on the side or rear of the unit and or colour coded Blue.
- 2: **The Satellite Antenna lead** is connected to the corresponding terminal labelled "IRI". It may also be colour coded Yellow; this is not marked on the 3 in 1 antenna and is **Left Hand Thread**.
- 3: The Antenna lead labelled "GPS", is connected to the corresponding terminal labelled "GPS" on the RaceSafe H20 unit, (it is Right Hand Thread), the terminal may be on the side or rear of the unit and or colour coded Green.
- 4: GSM, if optioned with 4 in 1 Antenna, is connected to corresponding terminal labelled "GSM" on the RaceSafe H20 unit, (it is Left Hand Thread), the terminal may be on the side or rear of the unit and or colour coded Red.

(Note: Internal WiFi is not marked, but if utilised, it is to be connected to the uppermost or rear terminal labelled "WiFi" on the RaceSafe H20 Unit).

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## Antenna installation

### 3 in 1 Marine Bolt On: Preferred Type

The antenna is mounted through a 12mm hole; 100mm to 300mm forward of the cowl or windscreen and centre of deck of the boat with the **directional arrows pointing toward the front of the boat**.

### 3 in 1 Marine Stick on: Alternative Type

The antenna is mounted over a 12mm hole; 100mm to 300mm forward of the cowl or windscreen and centre of deck of the boat with the **directional arrows pointing toward the front of the boat**, stuck to the deck with the stick on backing provided.





<b>Unit Power Consumption at 12 volts</b>	
<b>Power On – Transit Mode</b>	0.200A
<b>Power On – Transit Mode - Charging</b>	0.300A
<b>Power Down – Sleep Mode</b>	0.002A
<b>Transmitting Incident on Course</b>	0.250A

<b>Power Cable Conductor Specifications</b>	
<b>Number of Conductors</b>	<b>2</b>
<b>External Diameter</b>	<b>2.5mm</b>
<b>Material</b>	<b>Copper</b>
<b>Current Rating</b>	<b>5.75A</b>

Please don't hesitate to [contact](#) us if you have any questions regarding the installation and fitment of any components of the RaceSafe H2O system.

Good luck and safe racing from the team at RaceSafe H2O.