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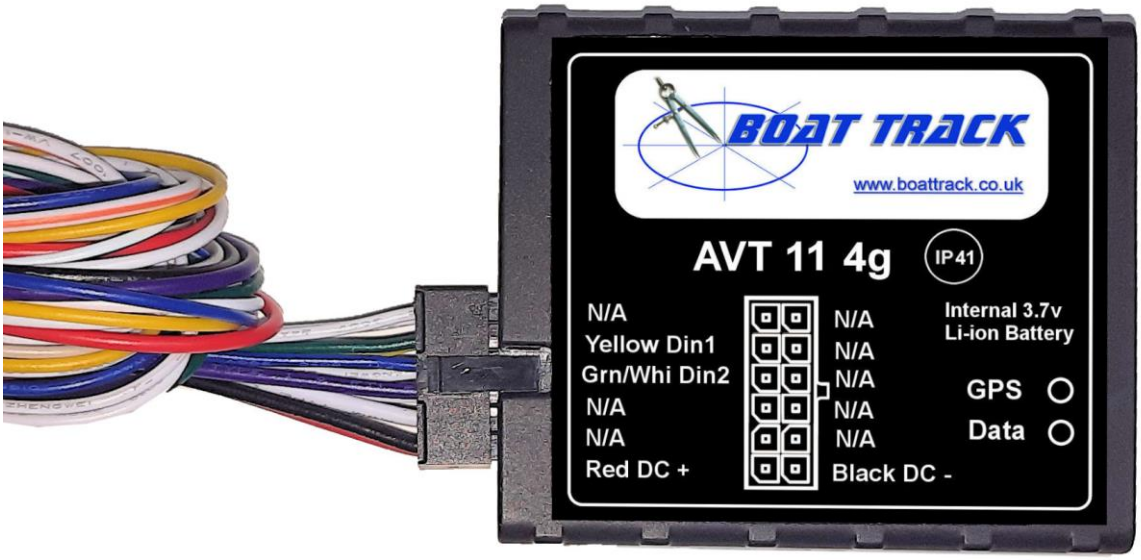
Connecting the AVT11 4G



Basics

Congratulations on your decision to invest in the next generation of GPS tracking devices. Installation is largely common sense and can be done by most people with Basic DIY knowledge in a few minutes. In most vessels the feed used will already be fused at the source, but if not please fit an inline one yourself with a suitable rating (2 to 3 amp *no more*), in the main power lead close to the source (ideally the battery positive terminal). If the wires are placed on the exterior or in places where they can be damaged or exposed to heat, humidity, dirt, etc., additional isolation should be applied.

Colour	Used For	Label
Red	Power supply 10 or 30 Volt Positive MUST be fused	DC
Black	Ground Negative	GND
Yellow	Ignition (Not Compulsory but useful)	DIN1
White	Second battery if fitted (Not Compulsory)	2nd Bat
White / Green	Spare Digital Input if needed (Not Compulsory)	DIN2

Unless instructed otherwise, all other cables should be left unstripped and insulated from each other. Although most users will only use the three wires shown above we suggest you do NOT cut the others out as you may one day want to try some of the extra options shown in videos on our website support page.

If you require the unit to be live 24/7 (most users do), make sure that the point you connect to stays on when you switch any master switch off. If the yellow DIN1 wire is connected to a point that is live with the engine(s) is/are on, then you can see in the MAP Program when the engine is running. For best performance connecting the negative power supply must be carried out at a very low impedance point on-board the vessel. The best point is usually the battery terminals. Therefore, we recommend connecting the POWER and GND wires directly to the battery terminals, or if the vessel is not being tracked 24/7 the 'cold' side of the vessel's master switch (with a fuse in line at the power end).

Another valid option is to connect the Positive wire (Red) to the main POWER cable inside the fuse box (if there is none, then to the power supply where the fuses of the host's on board computer navigation, radio, etc. are). For suggestion and examples of how to connect to power watch the video on the website's support page

Notes about ground

GND (black wire) must be connected to a point, designed to connect Ground. Connecting the GND at an arbitrary point to the mass of a host i.e. stuck under a random bolt even with the paint stripped back is unacceptable, as static and dynamic potentials on the line GND will be unpredictable, which can lead to instability and even the unit's failure.

Aerials

In the case of units with internal aerials (AVT10, 11, 12, etc.), the Label side is the up side and must be allowed to 'electronically' see the sky. It is acceptable to mount it 'label up' underneath Wood, Glass, GRP and other non-metallic items. This can be inside lockers, Control Consoles, Flybridges, etc. and the higher the better for improved ship to shore performance.

VERY Important Note:- The AVT11 is splash proof and reasonable water resistant up to IP41 and in most internal installations will not need any further protection. If however you feel there is a chance the unit could come into contact with liquids even for a short while we recommend placing it in a waterproof bag. This is especially true of RIBs where pressure cleaners are being used to clean the vessel after use.

Always test the unit in this position before finally mounting using tie-wraps, Velcro etc. that will let you reposition. NEVER make a permeant mount or, bond to a boat's hull until you are sure the unit works in that location and if you are fitting to a vessel that is liable to be at sea in very rough conditions, we recommend purchasing our optional mounting bracket (see on website).

In use the unit will operate on whichever frequency is available 2g, 3g and now with this version 4g.

Installation summed up (for those who have done this before**)**

- Mount label side up where it can electronically see through material (i.e. Not Metal) to the sky.
- Connect via a fuse to a solid electronic connection like the battery or master switch.
- Test before final fixing.
- Expect it to take a couple of minutes to work out where it is when first started.
- If you have a problem 03333 447644