



Connecting the AVT12 (4g)



Congratulations on your decision to invest in the next generation of GPS 4g tracking devices. Installation is largely common sense and can be done by most people with Basic DIY knowledge and in the case of a simple installation in just a few minutes. This unit must be fused with a suitable rating 2 to 3 amp *no more*, in the main power lead always close to the power source and not the Tracker's end (Always good practise - Less chance of a cable catching fire if it gets trapped at some point).

Fitting in more detail

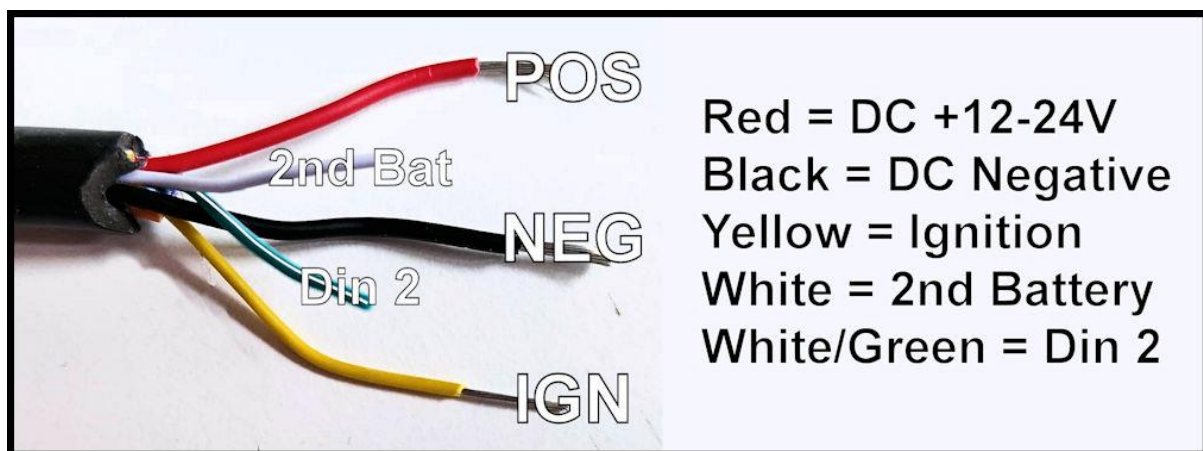
If not wiring direct to the battery, in most vessels any other feed used, will already be fused at source, *but if not please fit an inline one yourself*. Wires for safety should be fastened (Nylon Cable Ties) to the other wires, or non-moving parts. Try to avoid heat emitting and moving objects near the wires. In use the unit will operate on whichever network is strongest and available in the area, be that 2g, 3g and now 4g.

If the wires are placed in places where they can be damaged or exposed to heat, humidity, dirt, etc., additional isolation should be applied. Unless instructed otherwise, all other cables should be left unstripped and insulated from each other. They should then be taped around the main cable out of harm's way. If using the ignition feed to show the vessels status and it is long way away, we recommend this is also fused for your own protection (live leads can get trapped and installation warn through).

Notes about connections

We recommend connecting the POWER and GND wires directly to the battery terminals (with an inline fuse in the positive line) when possible. Other valid options are to connect the positive line to the main POWER cable going to the MASTER SWITCH or inside the fuse distribution box. If the yellow wire is not going to be connected to the ignition switch, then another useful option is to place it on the 'switched' side of the master switch. It will then tell you when power was applied especially. Lastly if the vessel has a second (auxiliary) battery, we recommend the positive battery output be connected to the white wire so it may also be remotely monitored.

NOTE: Some users also connect the Green and white Din 2 cable to detect something else being switched on like an Anchor Winch, or Navigation lights. But if you are doing this DOUBLE Check the colour of the cable you are using, as there is also a Yellow with White strip cable and an all-green cable just to confuse the installer!



If you have a substantial auxiliary battery, an alternative option to the above installation (that will protect the main start battery from being drained), is to power the tracker from that. But please first check that battery is also charged as soon as the vessel is switched on with next use.

NOTE: - If you are likely to leave the vessel unpowered for more than three or four weeks, or if in use battery consumption becomes a problem i.e. it flattens the battery when left for long periods. Please contact Boat Track as we can remotely switch on various 'Sleep Mode' options to prolong battery life. *However, in almost all installations this will not be necessary as our units draw very low current.*

Mounting

The AVT12 has twin internal aerials and the Label side is up and must be allowed to see the sky. If you are not mounting externally, it is acceptable to mount it **label up** under Wood, Glass, GRP and other non-metallic enclosure like the steering position consol. Ideally it should be horizontal flat but sloping up to about 30 degrees is acceptable.

Always test the unit in this position before finally mounting using cable ties, Velcro etc. that will let you reposition. NEVER make a permanent mount or bond to a boat's hull until you are sure the unit works and does not pick up interference from other on-board equipment in that location.

Warnings

Important Note: - When fitting the plug to the unit (if not already done) please note there is a keyway on one side of the plug, make sure you have it the right way around. Failure to do this may twist the socket out of line and make insertion difficult but wiggling the plug a little while pushing it in, will normally work. Also note:- To be fully weatherproof it must be pushed all the way in.

VERY Important Note: - The unit is mounted in a weatherproof housing to IP67 rating, this does not mean the unit can be operated underwater, or in a position where powerful waves can hit it. This will void the warranty.

Clearly RIB Owners, this also includes where exposed to water under very high pressure - for example when washing salt off the vessel with a high-pressure nozzle. ***Please use common sense when mounting and shield the unit and cable from breaking waves, spray and pressure cleaners as much as possible.***

Installation summed up

- Mount label side up where it can electronically see through material (i.e. Not Thick Metal) to the sky.
- Connect via a fuse to a solid electronic connection like the battery or master switch.
- Mount it where it cannot get drowned!
- Test before final fixing.
- If you have a problem 03333 447644

Video

You can watch videos about installation and other videos on our [website's support page](#).