

Installation Instructions SportTACH & EGT Probes

Installation Overview

This SportTACH is designed to give you trouble-free service if installed according to these instructions. Read this entire procedure before beginning the installation. If you do not understand any portion of these instructions refer installation to a qualified technician.

1. Mount the SportTACH using the Velcro fastening tape supplied
2. Connect the power cable to power and ground plus wrap the pickup wire around any one plug wire
3. Drill and mount the optional EGT probes in the exhaust manifold

Installing the SportTACH Instrument

Tools Required

- Diagonal cutters
- 1/8" MPT tapping tool
- 7/16" open end wrench
- Black electrical tape

First Things First, For Safety...

 **Disconnect the battery positive cable (red) before proceeding.**

Mount the SportTACH

Locate a suitable mounting location for the SportTACH. The location should be easily visible and convenient to reach to depress the switches on the unit.

Route Wires

Determine a routing path for the wires that connect to the SportTACH. This may include drilling a hole in the surface the SportTACH is mounted to.

1. Locate a position and mount the SportTACH. If the SportTACH is mounted on a flat surface be sure you can drill an exit hole for the wires about 2.5" below the SportTACH. The position of the hole is important because of possible wire over-stressing if the pass through hole is too close to the SportTACH
2. Drill the appropriate diameter hole at the marked location
 - SportTACH (no thermocouples) 1/4" drill
 - SportTACH / EGT (using thermocouples) 1/2" drill
3. Feed the thermocouple wires through the hole. Pull all but about 5" of the wire into the hull area.
4. Next, feed the power cable through the hole from the outside to inside of the boat's hull. Pull all but about 4" of the wire into the hull area
5. All wires protruding out of the boat should have the connector end visible. If not, remove and re-install the wire correctly

Attach the various cables

1. Carefully plug in each of the cables into their respective mating connectors until they snap into place. Dress each wire such that they are not pulled taut or have sharp bends at the point the wire exits its connector
2. Inside the hull dress all wires such that they don't come in contact with any hot or sharp surfaces that could cause damage during use

Dress the Wires

Connect the black, red, and yellow wires.

1. Attach the Black wire to any suitable GND point, never attach a GND wire to the cylinder head. The battery's negative (-) terminal is ideal
2. Attach the Red wire to any suitable +12V source. Again the battery's positive (+) terminal is ideal
3. Select any spark plug wire and wrap 2 or 3 turns of the Yellow wire around the plug wire
 - Wrap plastic electrical tape over the wire to hold it in place on the plug wire
 - The Yellow wire must not cross or be nearer than 6" to any other plug wire, otherwise the RPM readings will be erratic or indicate the wrong RPM

Last Things Next

Reconnect the battery cable removed at the beginning of this installation procedure.

**If you have any questions or comments, please contact us by phone, FAX, or E-Mail.
Be sure to reference the year and model of your Sea-Doo®.**

The Installation is now complete!

SportTACH EGT Probe Installation

Note: Leave the brass fitting and vinyl probe cap in place on each temperature probe until directed to remove them. The fitting is secured to the probe to protect its exposed sensing element.

Drill and tap the head pipe

1. Locate area on exhaust head pipe where no water jacket exists
2. Drill and tap for 1/8" NPT fitting. Removal of the head pipe may be required for this operation
3. Unscrew nut from brass pipe fitting and slide off end of temperature probe
Remove the probe cover and leave the feral and nut in place on the temperature probe
4. Wrap pipe thread end of brass fitting with Teflon tape
5. Install brass fitting into threaded hole being careful not to bend or otherwise damage the probe tip of the thermocouple

Install temperature probe

1. Insert the temperature probe into the brass fitting to the desired depth
2. Swivel the wire end of the probe around until wire has a clear exit from the engine without rubbing against any part of the engine or other surface that can chafe the insulation on the wire
3. Tighten nut to hold probe firmly in place

Route the temperature probe

1. Take care not to kink the lead wire from the temperature probe during this procedure
2. Route the probe wire away from the engine and cable tie as required to secure it
3. Feed the connector end of the wire to the SportTACH and plug into desired receptacle

**If you have any questions or comments, please contact us by phone, FAX, or E-Mail.
Be sure to reference the year and model of your sport vehicle.**

The Installation is now complete!

**Be sure to read the operators manual section to fully utilize the features of the
SportTACH Instrument**

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