

Race Diagnostics Ltd

# liquidTT installation Manual



## **Required components**

Fully assembled liquidTT module.

One OBDII cable (supplied).

3 cable ties and stick-on cable tie mounts (supplied).

Glue, (heat gun, silicone sealant or araldite), not supplied.

Small block of foam rubber , not supplied.

## **Tools require to complete the assembly (not included in the kit).**

String

4 large cable ties

Masking tape

Glue, (heat gun, silicone sealant or araldite)

## Installation Instructions

First, remove the air vent that is desired as the mounting position for the liquidTT. The easiest way to remove the air vent is by pulling the vent with two hands with your finger nails behind the air vent control wheel as shown below. As the vent is a simple push fit, it will come out without any real problem.



Once removed, you can see the air ducting behind the opening.



To prevent hot or cold air from the HVAC system leaking behind the dash the air duct must be capped. Cut a piece of 2 to 3cm foam rubber slightly larger than the air duct opening size and fit into the duct, taking care not to block the duct behind to the other vent.



Next the OBD cable needs to be fed behind the dash. To do this, first link together 3 or 4 large cable ties as shown below.



Next feed the cable ties into the dash air vent opening on the right side in a downwards and right direction towards the back of the driver's foot well area.



Eventually the end of the cable tie will emerge as shown below.



Next fold over the top of the cable tie and tape it into a loop and thread through a length of string.



Pull on the bottom of the cable tie until the string emerges in the footwell.





Detach the string from the cable-tie and tie to the 9-pin D connector of the OBD cable. Next, gently start to pull the sting back through the air vent opening, pulling the OBD cable back up with it. The cable will snag on the way, each time it snags, pull the OBD cable back down a few centimetres and gently rotate the OBD cable. Eventually the 9-pin D connector will emerge from the air vent opening.



Untie the string from the cable and attach to the liquidTT module, screw the cable screws into the connector on the liquidTT module.



**Also to avoid vibration damage to the PCB it is advised to put two small blobs of heat glue or araldite glue between the 9 pin connector and the air vent body as shown below.**

**This is very important to avoid vibration damage to the PCB.**



Feed the OBD cable back in behind the dash.



Then push the liquidTT module back into the dash.



Next use the cable ties supplied to tidy the OBD cable beneath the dash area.





Finally plug the OBD connector into the diagnostics port, the installation is now complete.

