



## YAMS – VR903 Activity Recorder – Installation Instruction

**Important** are, the serial number of the recorder (left site of the casing) and the engine /vehicle identification number, needing to be recorded for the configuration of the software.

### 1. Location

The choice of mounting location is dependent on the following:

#### 1.1 Operator access

Activity Recorders should be mounted in a position where they can be easily accessed during vehicle operations. This may include dashboard or window mounting.

#### 1.2 GPS satellite reception and cloud transmissions

All VR903 Activity Recorders are equipped with GPS signals for ascertaining their location. This enables also to calculation driven speed, covered distance and stoppages as these recording are all related to time. Some of these VR903 recorders are marked with the suffix G, this refers to GSM (global system for mobile communication) this is cloud transmission in both direction. – Mount them with clear view of open sky, and not under metal covering, as this will not function properly.

#### 1.3 Work-induced vibration

The mounting surface should be one that experiences vibration during vehicles operations. Various surfaces in a vehicle will experience different vibration levels and frequencies but, in general, mounting on most chassis, dashboard or window surfaces of a vehicle would be suitable. Avoid mounting on foam or vibration damped surfaces.

#### 1.4 Cable and electrical connection

The Activity Recorders require connection to the vehicle's electrical system. Check cable length, routing and connection points when selecting the mounting location.

### 2. Attachment method

The Activity Recorder may be mounted using one of the following methods:

#### 2.1 Double-sided tape

Use three 120mm long and 25mm wide of double sided foam adhesive tape on the back of the Recorder, on a clean planeness surface (e.g. a window or panel).

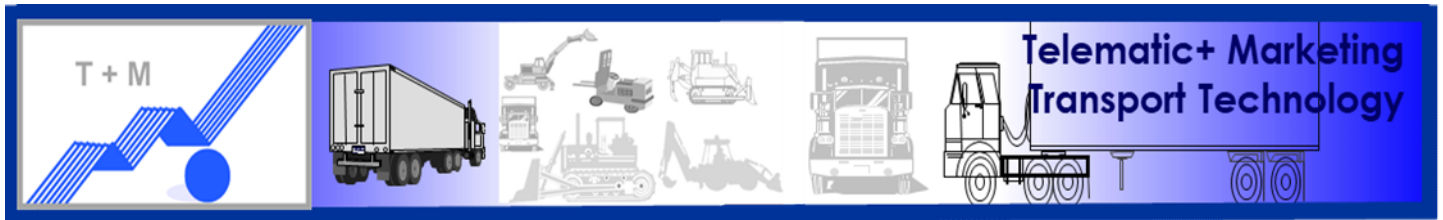
#### 2.2 Silicon adhesive/sealant

Cover the rear of the Activity Recorder with a suitable adhesive/sealant, and attach to a reasonable flat surface. It is important that the Recorder be secured in place while the adhesive dries/cures.

#### 2.3 Drilled holes and screws

Suitable self-tapping screws are provided with the Recorder. The screws are inserted through the mounting holes in the Activity Recorder package. These holes are accessed by removing the front panel of Recorder. A 3mm allen key wrench is provided for this. After having removed the front panel it is possible to take the hole positions for the fastening holes to be drilled. The self-tapping holes require a hole size diameter of 2.5mm. Having drilled these holes, fasten the recorder in the decided position and close front panel.

NB:Ensure that there is no obstruction that might interfere with the cable connection or the insertion of the Tally-Stick.



## YAMS – VR903 Activity Recorder – Installation Instruction

(continued)

### 3. Electrical Connection

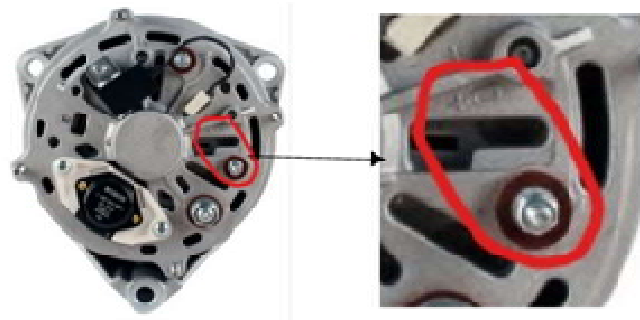
The Activity Recorder requires three electrical connections for its operation. These are:

1. chassis (black wire on the paired cable)
2. engine operation signal (red wire on the paired cable)
3. permanent vehicle supply (single, red wire)

Please consult an auto-electrician or vehicle mechanic for the installation task.

The chassis connection should be made to a suitable ground connection point on the vehicle electrical system.

The engine operation signal should be a 12 Volt or 24 Volt DC signal that is active **only when the engine is running**. A suitable connection would be either the "charge indicator" terminal of the alternator (often marked as "D+" or "L", see below), or the supply to an existing engine hour meter. It is recommended to test the chosen connection point with a voltmeter, to ensure that it is suitable. If fused, a 2 amp fuse rating would be suitable.



The permanent vehicle supply connection should provide 12 Volt or 24 Volt DC supply at all times. Possible connection points include the supply to the vehicle fuse box or the supply to the ignition switch. If fused, a 2 amp fuse rating would be suitable.

It is highly recommended to measure (using a voltmeter or multimeter) and confirm the connections made before plugging the connector into the Activity Recorder.

### 4. M22X Event Marker Unit

If used, this unit should be mounted in location where it is accessible to the operator, but does not affect their ability to safely operate the vehicle. Double-sided tape or silicon adhesive may be used to secure the unit.