

# Tapley EBM

## User Manual



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# Tapley EBM

## Unit Description

The Tapley EBM is a self-contained unit, incorporating an Accelerometer, which is used to determine your vehicle's braking performance. It can also be used to monitor the condition of the brake components in conjunction with normal, routine inspection.

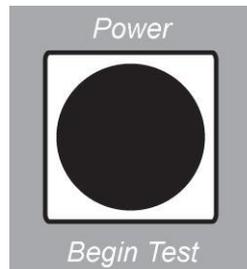
The Tapley EBM has a 3-character LED display that shows the unit's status and the test results.

The Low Battery Indicator means it needs replacing but it will still work, NoB means that the battery is completely flat and the unit is not able to do a test until the batteries are replaced. New batteries will accommodate around 300 tests. To replace the batteries, remove the back by undoing the 4 screws.

There is no off switch on the unit; it will automatically power off after 5 minutes of inactivity.

This 'Bowmonk Connected' version of the Tapley EBM is capable of testing both the Service Brake and the Hand Brake.

## **Function Key**



Hold the key down for 2 to 3 seconds to turn the Tapley EBM **ON**

When the Tapley EBM is turned ON, the **Brake Test** display will show:



The Unit is ready to begin the Service Brake Test routine.

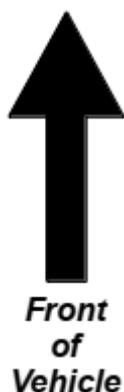
## **Performing a Test**

### **Setting the unit up for a Test**

Choose a safe test area that is as level as possible.

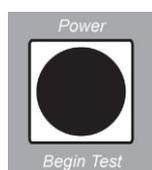
***The test area should be straight, flat and long enough to attain the recommended test speed and then to stop the vehicle quickly and safely. Avoid loose and wet surfaces. Avoid areas where there are other vehicles or people.***

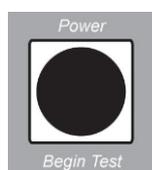
Place the Tapley EBM in the vehicle with the arrow pointing in the direction of travel.

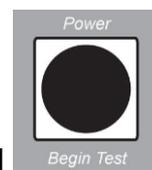


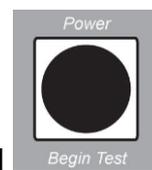
NB. The Tapley EBM should be placed on the vehicle seat or front floor and as close as possible to parallel with the road surface. The unit is fitted with rubber feet to help prevent it from moving around during the test.

In the UK, when carrying out a Statutory MOT Test it is essential that the brake test procedure detailed in the latest version of the MOT Inspection Manual be followed.

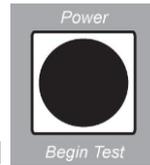


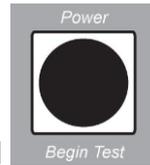
Briefly press  to choose the type of test you require. The display should show  for a Service Brake test, or  for a Hand Brake test.

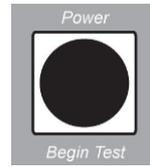


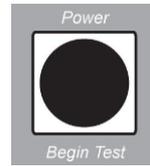
Once the correct type of test is shown on the display, press and hold  for about a second.

The display will change to showing the braking efficiency result (in %g) of the last type of test (SBR/HBR) that you chose above.



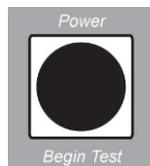
To select a different type of test, press and hold  for about a second, then choose the test type as above, switching between the two with brief presses of the button.

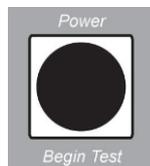


To begin the selected test type, briefly press . The display will indicate whether or not the unit is level enough to perform the test. Before an accurate test can be performed the display must show:



**Do NOT tilt the unit to achieve level. Find a more level vehicle test area and ensure the unit is parallel with the road.**



Briefly press  again. The unit is now ready to perform the test and the display will show:



Accelerate the vehicle smoothly to approximately 20 mph.

Without causing the vehicle to skid, apply heavy and consistent pressure to the Service Brake until the vehicle comes to a complete stop as quickly as possible. For a Hand Brake test, perform in similar way but at a lower speed.

The display will now show a value, e.g.



The result will be retained until the next Service Brake or Hand Brake test is performed.

The test is now complete, move the vehicle off the roadway if necessary.

## **Explanation of Terms**

### **BRAKE EFFICIENCY %**

**This result corresponds to the Peak Brake Efficiency. This is the figure to be used in the UK for Statutory MOT Testing.**

This is the maximum-recorded G force expressed as a percentage of one G

## **Warranty**

The warranty is 12 months from date purchased.

**PLEASE NOTE:** Deliberate or unintentional damage of the unit may result in the warranty becoming void. Likewise, if the unit is interfered with by anyone other than an authorized service agent, the unit will not be covered under this warranty.

**CALIBRATION:** BOWMONK recommends that the unit be calibrated every 24 months to ensure accurate operation. Calibration is to be done by Bowmonk Ltd at our approved laboratory in Norwich.

Uncalibrated devices will not transfer test results to MTS.