



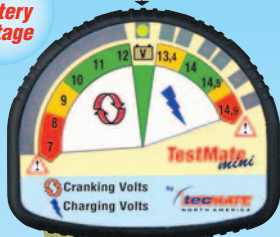
**Starting problems ?
Always replacing batteries ?**

TestMate *mini* has the answers!

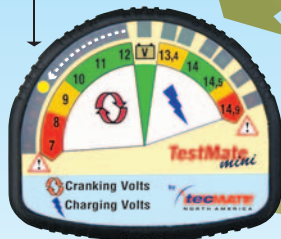


Hook-up and see

1 CHECKS
Battery Voltage



2 CHECKS
Battery Starting Power



3 CHECKS
Vehicle Charging System



Don't be Stranded!

SEE OVER FOR DETAILS



TestMate *mini*

Fast, accurate & professional on-vehicle testing of 12V batteries & charging systems.

Weak automotive batteries and charging system anomalies are identified in seconds.

Test without disassembly : Fast, clean, easy.

Connect the **TestMate *mini*** directly to the battery or 'live' 12 volt outlet.



1 Battery voltage check

With the **TestMate *mini*** correctly connected and ignition switch, vehicle lights and power consuming accessories switched off, the centre green LED (battery icon with V) should light. This indicates a battery voltage of 12.5V or more, which is normal for a charged battery. A reading of 12V or less indicates a discharged or even a defective battery.



2 Test the battery under cranking load

Turn the ignition key (or press the starter button) to crank the engine while observing the **TestMate *mini*** display. The voltage will drop sharply for an instant, then it should settle slightly higher until the engine starts.



GOOD – Voltage initially drops into yellow/green, settles in green zone.

ACCEPTABLE – Voltage initially drops into red/yellow, settles in yellow zone.

POOR – Voltage remains in red zone.



3 Test the charging system alternator and voltage regulator

Once the engine has started the vehicle's charging system will automatically come into circuit with the battery. The output voltage settings of voltage regulators are designed to deliver the appropriate charging voltages for the type of battery with which the vehicle was factory-equipped. The appropriate voltage at normal engine idling speed (800 RPM or higher) should be 14V to 14.5V.

Available from your local dealer or online at www.testmate.com



Find more information at www.tecmate.com or www.tecmate-int.com