

## Alternator Test

**Objective:**

Check the charging operation and the excitation and rectification diodes of the alternator.

**Measurement:**

Harmonic content of the charge voltage when the engine is idling.

**Preparation:**

Switch off ignition, check if connections to the alternator, starter and battery are secure. Check tension of alternator drive belt.

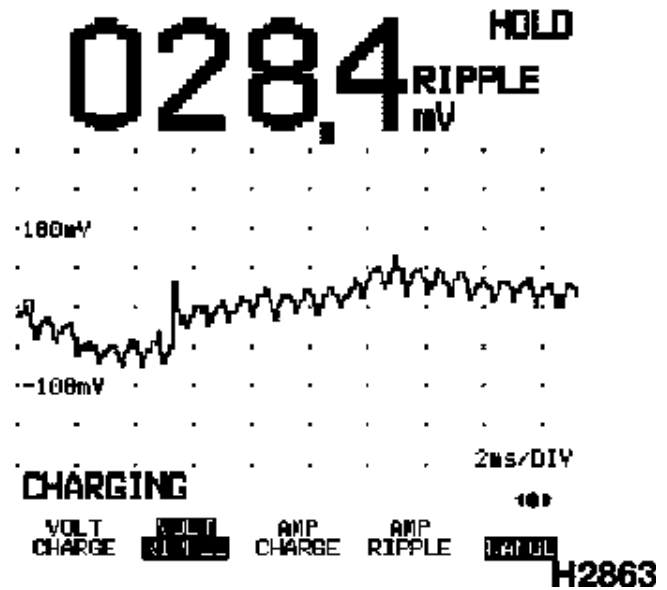
**Connections:**

INPUT A	COM/TRIGGER	INPUT B
Connect red measurement lead to the positive terminal of the battery. Connect the black ground lead to the negative terminal of the battery.		

**Procedure Tech 31:**

1. Download Reference curve.
2. Start engine and allow it to idle.

**Reference Curve:**



The appearance of the measured curve can vary according to the condition of the engine (load, battery charge and engine speed).

#### Procedure Tech 32:

1. Download Setup file (the Tech 32 uses only Setup files, no reference curves).
2. Start engine and allow it to idle.



Setup File:

Reference Curve:



The appearance of the measured curve can vary according to the condition of the engine (load, battery charge and engine speed).