

imrie® Diagnostic Testing

Today's electronic ignition and engine management systems demand a whole new method of testing – but that's not all that Imrie instruments provide. Imrie testers are the simplest, fastest and most accurate way to test any conventional or electronic ignition system – even systems with on-board computers. An Imrie® tester could easily be the most valuable tool on your workbench.

- Instant diagnosis without disassembling the engine – even if it won't run. Saves valuable stripping time.
- Easily tests from hand cranking to full RPM throughout the speed range.
- The Imrie®630 is fully portable – use in the field (take it for a test-ride or while Dynamometer testing, etc.), the workshop. or on the counter for spare parts sales.
- Eliminates the guesswork on repairs, estimates and warranty claims.
- Used and recommended by leading OEM's .
- Easy to follow operators manual.
- Australian designed and manufactured with 2-year warranty.
- Inexpensive.

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Incorporated within Small Coil Rewinds Pty.Ltd.

Small Coil Rewinds Pty. Ltd. (Bert Neville) started from a hobby, in 1986 whilst Bert was working for Kawasaki Australia as their Victorian "Service Rep". The company was incorporated in 1989 and now employs six full-time staff.

While working as a motorcycle mechanic (1971 to 1986) Bert's boss purchased an Imrie® Model 45 from Jim Imrie. On changing employment, one of the first tools to be purchased was another Imrie® Model 45. Since then Small Coil Rewinds have based most of their testing procedures around "PEAK VOLTS". Being offered the chance to purchase the Company mid 2008, we enthusiastically proceeded to continue Jim's dedicated and brilliant work.

We are very much Motorcycle orientated, but we also service other sectors of the Automotive and Power Products industry. Our staff have suggested developing other test instruments (Variable Spark-Gap tester, single and three phase alternator tester, permanent magnet regulator tester, Coil testers, etc.). So over time, and in response to on-going industry requirements, our range will increase.

Existing Imrie® customers can rely on our continued support.

R.J. (Bert) Neville

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imrie® ignition testers

630



"Takes the mystery out of ignition fault finding!"

Australian Designed & Manufactured

www.imrie.com.au

The imrie® 630

The Imrie®630, known as the “AFFORDABLE SCOPE”, analyses ignition systems by measuring its “PEAK VOLTAGE” and displaying it on an analogue meter. Oscilloscope waveforms are displayed on screens, which then needs to be interpreted by competent technicians. The oscilloscope, unlike the Imrie®630 does not easily display cranking speed voltages. An Imrie®630 is the ideal instrument for the Motorcycle, Outboard and Power Products specialists.

All electric signals can be monitored and compared to either specification sheets, previously recorded information or a running engine.



NEW FEATURES:

1. The Imrie®630 can measure Positive(+) or Negative(-) voltages without changing the probes around as in previous models. Switching the “POLARITY” switch to the Negative(-) position now means the RED probe will measure Negative(-) voltages.
2. Externally mounted batteries mean no dismantling is required for replacement.
3. Shipped in a “TOOL BOX” type case for storage and handling.
4. Internet downloadable manuals.

PEAK VOLTAGE SCALES:

■ 0 – 6 volts.

- Measuring Pulse / Trigger coil signals (cranking speeds).
- Sensor (TPS, MAP, TIP-OVER, Coolant, Engine and Air temperature, etc) input and output voltages.
- Checking for “VOLT-DROP” during engine cranking.
- Checking “VOLT-DROP” in Lighting, Battery charging systems etc. etc.

■ 0 – 30 volts.

- Monitoring Pulse / Trigger coils during engine running tests.
- Checking Points Magneto Source coil open circuit output.
- Measuring High Speed Exciter coil output (cranking speeds).
- Battery charging rate.

- Any 6 or 12 volt supplied accessory, sensor or output for correct power supply.

■ 0 – 600 volts. *(Take care! High voltages can cause serious injury or even death).*

- Measuring High-Tension coil PRIMARY voltages, cranking and running. Take care with this test!! Check that you are using the correct “POLARITY”!!!
- Checking INJECTOR closing “Back EMF”.
- Checking Points Magneto “IN CIRCUIT” primary voltages.
- Testing Exciter OPEN and IN CIRCUIT voltages.

■ 0 – 30 KV (30,000 volts).

- Checking High Tension output, OPEN CIRCUIT.
- Checking Spark Plug “FIRING” voltages, at cranking and under all operating conditions.
- RESERVE voltage can be calculated from the above tests.
- POLARITY switch allows twin lead coil systems to be quickly tested.

