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®3000 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.

imrie® Diagnostic Testing

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.

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imrie®

ignition testers

3000

"Takes the mystery out of ignition fault finding!"

Australian Designed & Manufactured

www.imrie.com.au

The imrie® 3000

The "Imrie® 3000" was designed to meet the engine manufacturers specifications using solid state electronic circuitry for accurate and dependable trouble-free service, to test all types of conventional and electronic ignition systems and other electrical components.

Tests can be performed ON or OFF the engine, on the test bench for normal service work, on running engines to detect intermittent problems or on the counter for spare parts sales.

ON ENGINE TESTING:

The tests described below do not require "MAINS POWER", therefore are portable.

The operation of the 0-40 and 0-400 volt ranges are similar to an oscilloscope but the display of the voltages are read on an easy-to-read meter. This provides a quick and accurate method of measuring working voltages within an ignition system while cranking or while the engine is operating through its entire RPM range at normal operating temperatures.

Using the "Spark Gap" facility, an indication of "RESERVE" spark voltage can be obtained. Misfiring can also be observed in the window.

OFF ENGINE TESTING:

Most of these tests do require "MAINS POWER", therefore usually are not portable.

The tester applies simulated working voltages to the individual system and associated parts. This form of testing allows the mechanic to visually observe the actual operating condition of the ignition parts, under load without the engine running, thus ruling out other mechanical engine malfunction (i.e. Carburettor, fuel pump, valves, timing etc.).

FEATURES:

- Tests all types of Conventional and Electronic ignition High-Tension Coils.
- Spark-Gap (0-12mm) test, can be used in circuit to check "Reserve" spark voltages.
- Test for High voltage leakage from H.T. coils, leads and Plug caps etc.
- Condenser leakage and shorts test.
- Ohm meter – High and Low scales.
  - Test Diodes
  - Breaker Points testing, used for static timing of Magneto ignitions.
  - All resistance testing, 0-20,000 ohms.
- Volt meter – 0-40 volts DC – 0-400 volts DC – 0-300 volts AC.
  - Test for "Volt-drop" in starter motor and charging circuits.
  - Peak voltage testing of Charge, Exciter, Pulse/Trigger, and Sensor coils.
  - Checking output from portable generators.
  - Battery charge rate, etc. etc.
- Flywheel simulation (optional extras, FS-1, FS-2), test "Power Products" CDI and TCI ignition modules and associated parts.