BATTERY TESTING PROCEDURE - BATTERY INSTALLED ON MOTORCYCLE

Equipment required: Voltmeter, battery charger.

STARTING LOAD TEST

- Set voltmeter to 0-20v DC range
- Connect a voltmeter to battery (+ to +) (- to -)
- Operate starter and note voltage reading whilst cranking

Results: Battery voltage should not drop below 9.5v

CHARGING SYSTEM TEST

- Set voltmeter to 0-20v DC range
- Connect a voltmeter to battery (+ to +) (- to -)
- Start motorcycle and run engine
- at 3000-5000rpm
- Note voltage reading

Results: With engine running as above the voltage should maintain 13-14.5v. If battery voltage is lower, then proceed to check the charging system and associated wiring.

STATIC BATTERY TEST

- Wait 1 hour if battery freshly charged or switch on ignition for 3 minutes, switch off and wait 10 minutes before proceeding.
- Set voltmeter to 0-20v DC range
- Connect a voltmeter to battery (+ to +) (- to -)
- Note voltage reading

Results:

12.6v = fully charged 12.4v = 75% charged 12.1v= 50% charged 11.9v = 25% charged

If battery less than fully charged, charge battery, remove from charger and rest for 1 hour and retest.

VOLTAGE LEAKAGE TEST

- Set multimeter to read current (amps)
- Remove the negative (-) cable from the battery
 Connect multimeter negative (-) lead
- to battery negative (-) terminal
- Connect multimeter positive (+) lead to free end of battery negative (-) cable
- Note current flow (amps)

Results: Compare reading to vehicle specifications in Mike Technik. A typical reading is 2mA. A high current flow indicates a short circuit in the charging system or wiring. Take into account any accessories fitted with a constant current draw such as alarm or accessories not switched by the ignition circuit.

Note: When charging the motorcycle battery always use a charger suitable for the type of battery when charging Sealed (MF) or Lithium Ion batteries.

BATTERY TESTING PROCEDURE - BATTERY ON BENCH

Equipment required: Voltmeter, Battery Load Tester

STARTING LOAD TEST

- Commence test with a fully charged battery
- Connect to battery load tester such as a Battery
 Mate 150-9
- Refer to the specific battery tester instructions and ensure the tester is set to the correct rated Ampere-hour (Ah) capacity of the battery
- Perform a simulated load test (typically 15 seconds in duration)

Results: Battery voltage should not drop below 9.5v

STATIC BATTERY TEST

- Wait 1 hour if battery freshly charged
- Set voltmeter to 0-20v DC range
- Connect a voltmeter to battery (+to +) (-to-)
- Note voltage reading

Results:

12.6v = fully charged 12.4v = 75% charged 12.1v = 50% charged 11.9v = 25% charged

If battery less than fully charged, charge battery, remove from charger and rest for 1 hour and retest.

Note: When charging the motorcycle battery always use a charger suitable for the type of battery when charging Sealed (MF) or Lithium Ion batteries.

Larsson UK Ltd.

7 Alpha Court	Tel. +44 1536
Phoenix Parkway	Fax. +44 1536
CORBY, NN17 5DP	

265633 210390