

ALTERNATOR & STARTER MOTOR TESTER FOR PART STORES & DISTRIBUTION CENTRES

- New computer with touch-user interface
- Tests all alternators or starters accurately
- Built in RVC, BSS and LIN interface for testing of advanced new generation alternators
- Comprehensive parts database with thousands of part numbers searchable by part number, plug number or vehicle application
- Fully automatic belt tensioning system for effortless testing

+ Comprehensive
+ Accurate
+ Compact



TESTING THE FUTURE®

ALTERNATOR & STARTER MOTOR TESTER
FOR PART STORES & DISTRIBUTION CENTRES

JBT-1

The JBT-1 is the best low cost all-in-one Alternator and Starter tester on the market. Featuring class-leading comprehensive testing of the alternator, starter and solenoid functionality using D&V's proprietary Windows® PC based touch user interface for ease of use. Weighing less than 200 lbs., it was engineered for the testing demands of Parts Stores, Warehouses and Distribution Centers. It is capable of testing all the latest alternators with computerized serial communication protocols including RVC, BSS and LIN and can accurately and completely test alternators or starters in **under 30 seconds**.

Features

- Solenoid Pull-in test, Voltage Drop and Contact Chatter
- Effortlessly test a variety of RVC, BSS, LIN & clutch pulley alternators by using a combination of the included leads
- Database is searchable by Part Number, Plug Number or Vehicle Application
- Easy to operate touch screen with step-by-step connection instructions aided by full color pictures

Alternator Testing

- The platform supports the various computerized serial communication protocols required to activate and test the alternator including RVC, BSS & LIN
- Built-in digital oscilloscope for analysis of rectifier/ diode and stator winding condition. Also provides comprehensive measurement of regulator functions and terminal output signals
- The regulator terminal switching circuitry automatically configures the test harness to match the required plug connections of the alternator
- Alternator leakage test checks for faulty alternator components such as missing or broken insulators, defective diodes and regulators
- Automatic CW or CCW operation with manual override

Starter Testing

- Comprehensive test of the starter and solenoid functionality with the combination of measured electrical values and optional shaft speed measurements
- The computer controlled variable voltage starter power supply tests solenoid pull-in with a programmable voltage to detect weak and defective solenoids
- Analysis of starter components with "inertial" load and speed sensor. The optional sensor evaluates starter pinion engagement and timing
- Measures solenoid contact voltage drop, pull coil & hold coil current, early model "R" terminal connection and checks for contact chatter, pinion engagement and speed



Alternator Mounting



Starter Mounting

Software

- Fully customizable Pass/Fail reports which can be printed or stored
- Updatable test specifications database distributed electronically
- Built-in Testing Tutorial and Self-Diagnostic Mode for maximum usability

Accurately measures critical alternator and starter values such as:

ALTERNATOR VALUES		STARTER VALUES	
Output voltage	Stator voltage	Starter voltage	Starter speed (when performed with optional RPM sensor)
Output current	Field current	Starter current	Contact voltage drop
Ripple current	Feedback Voltage	Solenoid voltage	Contact chatter
Ripple Voltage	Feedback PWM	Solenoid pull and hold currents	R' terminal test
Leakage current	Lamp Voltage		
Secondary regulation	LIN and BSS messages		

SPECIFICATIONS		
Model	JBT-1 – 12V Version	JBT-1 – 12-24V Version
Operating Voltage	120V, 60 Hz	220-240V, 50 or 60 Hz
Driving Motor	1 HP	1 HP @ 60 Hz / 0.75 HP @ 50 Hz
Software Interface	Microsoft® Windows®, Touch-Screen	
Alternator Voltage	12V, Amperage Computer Controlled	12V-24V, Amperage Computer Controlled
Alternator Leakage	1-100 mA	
Maximum Alternator Load Current	15 Amps	
Alternator Regulator Protocol	Conventional, RVC, BSS and LIN	
Alternator Pulley Rotation	Automatic CW or CCW operation with Manual Override	
Alternator Belt Tensioning	Pneumatic with Manual Override, V or Multi-Groove Belts	
Starter Free Run Current	0-150 Amps	
Starter Free Run Speed Range	1000-20,000 RPM	
Solenoid Current	0-100 Amps	
Solenoid Voltage Drop	0-5 Volts	
RPM Speed Sensing	Optional	
Terminal Verification	Automatic	
Software Interface	Multilingual, Customizable Language Selection	
Certification	CE & cCSAus	



D&V ELECTRONICS LTD.
130 Zenway Boulevard, Woodbridge, Ontario Canada L4H 2Y7
sales@dvelectronics.com 1-905-264-7646

www.dvelectronics.com

