

TESTING THE FUTURE®

# ST-24B

## Computerized Starter Tester



The ST-24B is the next generation of D&V Electronics Ltd.'s very popular ST-24, built for the new era of automotive testing. The tester is built as a high speed, accurate, robust starter motor tester for customizable high-volume testing. This touch screen PC based machine is designed to achieve a fast test cycle time with minimal tooling change over for End-of-Line production testing.

## Features

- Measures more than 40 different starter parameters including performance curve, free run current and speed, solenoid current, contact voltage drop, "R" terminal function, coast down time, magnetic seal, pull-in & hold-in voltage/current, solenoid pull-in and release time for comprehensive production testing. • Load test conditions can be set by speed, torque, or current at fixed voltage or predefined battery for testing versatility. • State of the art technology with advanced diagnostic, high accuracy performance and free run (minimum load) speed tests.
- Completely tests the starter including solenoid, drive, pinion engagement and disengagement timing that can reveal faulty components or assembly errors.
- Solenoid "contact aging" function to seat the solenoid contacts for more repeatable results.
- Performance test by step or sweep method with inertia compensation for accurate test results.
- Complete performance test in less than 12 seconds reducing temperature related result variations and increased accuracy and consistency of results.
- Built-in digital oscilloscope and precise waveform analysis to diagnose armature, commutator and brush problems.
- Scripting of test procedure provides complete control of test process.
- User configurable Pass and Fail labels and reports with performance curve plotting torque, power, speed and voltage.
- On screen, step-by-step user configurable installation and setup instructions for error-free operation and minimal training.
- Effective material management. Programmable reject bin input, reject acknowledgement, marking device output, pass/fail labels and report generation. • Tooling recognition by bar-coded components and handheld scanner eliminates setup errors (Barcode scanner purchased separately).

- Computer controlled programmable 3000 Amps starter power simulating 200 - 4000 CCA battery (0 - 30 milliohms).
- Computer controlled 300 Amp programmable solenoid power supply.
- Includes standard double finger start

## Technical Data Measured Parameters

Starter Current	0-3000 Amps, 0.15%
Starter Voltage	0-40 Volts, 0.15%
Starter Speed	0-20,000 RPM, 1%
Starter Torque	0-120+nm
Solenoid Current	0-300 Amps, 0.2%
Contact Voltage Drop	0-2.5 Volts, 0.2%
Starter Efficiency	0-100%
Starter Output Power	0-10kW, 0.5%
Starter input Power	0-50kW, 0.5%



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