



PS MANUAL

## ALTERNATOR / STARTER TEST BENCHES

1.0 Model **TB-E1200/2**

2.0 Description

Industrial Test Bench **Medium Commercial**



Durst Motor & Electric Industries Pty Ltd

189 St Johns Road  
Glebe NSW 2037

Website: [www.durst.com.au](http://www.durst.com.au)  
Phone: 02 9660 1755  
Fax: 02 9692 0251

REV: NIL

*Kevin Pitt*

PS: 83

DATE: 08/08/13

AUTHORISED BY

PAGE: 1 of 3



### 3.0 Features

- **Rotation:** Fully Reversible, Clockwise & Anti- Clockwise
- **Speed Control:** Fingertip dial, Controls Forward and Reverse from Panel.
- **Meters:** Panel Meters are Precision Double Sprung Jewel, Moving coil movement with Anti Static Clear Lenses with built in a Zero correction calibration screw.
- **Tachometer:** Precision Calibrated meter displays Forward and Reverse Speed using Sensitive Tacho Impulse pick up.
- **Voltmeter:** Clear Meter scale reads RPM while digital display reads speed Three meter scales provide easy reading
- **Ammeter:** A heavy duty shunt is built into the Test Bench and three ammeter scales are easily selected
- **Field Terminals:** Switchable 'A' Circuit and " B" Circuit Field warning lights.
- **Belt Drive:** a combination Polly Vee Pulley and "V" Section covers a comprehensive range of todays Alternators and Generators.
- **Side Platform:** Easy to operate acme thread feed screw with crank handle, allows fast and positive belt tensioning.
- **Quick Clamp:** The clamp is a quick and efficient method of clamping Alternators without distorting the casings. Different size Pegs are supplied to suit a range of Alternators and the adjustable mechanical ratchet clamping levers lock the machined side to the hexagonal bar. Saves Time as Alternators are Fitted Quickly.
- **Starter Clamp:** Robust universal "V" Clamp holds generators and Starters
- **Isolation Switch:** An easily positioned ON/OFF Mains power switch and Circuit breaker are fitted.
- **Emergency Switch:** An emergency switch shuts the Test Bench down
- **Battery Isolation:** Key Switch isolates the Batteries and a Sliding bus bar switch changes the Voltage
- **Construction:** The Test Bench is Free standing Powder coated zinc steel frame with built in accessory shelf and battery compartment.
- **Australian Standards:** Conforms to **AS1360 Part11 (1980)**

### 4.0 Physical and Dimensional Properties

- Each unit weighs approximately 240.0 Kg – on Crate 282.0Kg
- Width 990 mm – in Crate 1180 mm
- Depth 890 mm – in Crate 1160 mm
- Height 1640 mm – in Ccrate 1860 mm
  
- Power Lead 3m Long
- Battery Leads 3 B&S Cable
- 5 x **LS-151** = Lead Set 1mm<sup>2</sup> Red Flex - 900mm Long – Alligator Clip
- 4 x **LS-152** = Lead Set 1mm<sup>2</sup> Black Flex - 900mm Long – Alligator Clip
- 1 x **LS-153** = Lead Set 1mm<sup>2</sup> Green Flex - 900mm Long – Alligator Clip
- 1 x **LS-611B** = Lead Set 10mm<sup>2</sup> Cable - 1.0m Long – 100 Amp Clamp
- 1 x **LS-611R** = Lead Set 10mm<sup>2</sup> Cable - 1.0m Long – 100 Amp Clamp



**5.0**     **Performance**

- DC Capacity: Tests systems 6 -12 -24 Volt as Standard
- Voltage: 415Volt 50 Hz Three Phase
- Drive Motor: Australian made 4.0Kw Heavy Duty Fan Cooled
- Test Starters to 1500Amps
- Variable Speed 5000-0-5000 RPM
- Test Alternators and Generators to 2.64Kw  
(220 Amps at 12 Volt and 110 Amps at 24 Volt)
- Meters switched between 0-10Volt, 0-20Volt and 0-50 Volt
- Ammeter scales selected between 10-0-10Amps
- Diode Meter reads centre scale 3-0-3 Amps DC
- Regulator Meter reads 0-20 Volts DC and 0-40Volts DC

**6.0**     **Uses**

- Suitable for Automotive, Marine, Defence, Councils, TAFE.

**7.0**     **Documentation**

- Bar Code Number: **9346080001072**
- Product Specification Manual - PS 83
- Work Instruction Manual     - WI 83
- Product Costing Manual       - PC 83