Model 101 Bar to Bar Tester

State Of The Art — Easy To Use — Eliminates Guesswork

This meter will check any armature that has enough resistance to move the meter needle into the green or "OK" section of the meter face during the initial "zeroing-in". On a large armature which has very little resistance, the meter needle will show less deflection but enough to establish a starting point.

"Dead shorts" are detected by a reading on that portion of the meter and even partial shorts can be detected by a deflection from the "zeroing-in" point that the test was started from.

The color coded meter face also has indications for open and reversed coils.

- One meter/One setting indicates circuit OK, shorted, open, or reversed
- Eliminates guesswork — zeroes right in on problem circuit
- Never again strip a good armature only to find equalizers caused a short to be indicated
- Sensitive enough to identify unsatisfactory circuits that other testers cannot find
- Pays for itself by eliminating unnecessary repairs or expensive second teardowns
- A quality buy, this highly scientific and advanced test equipment will maintain or increase in value

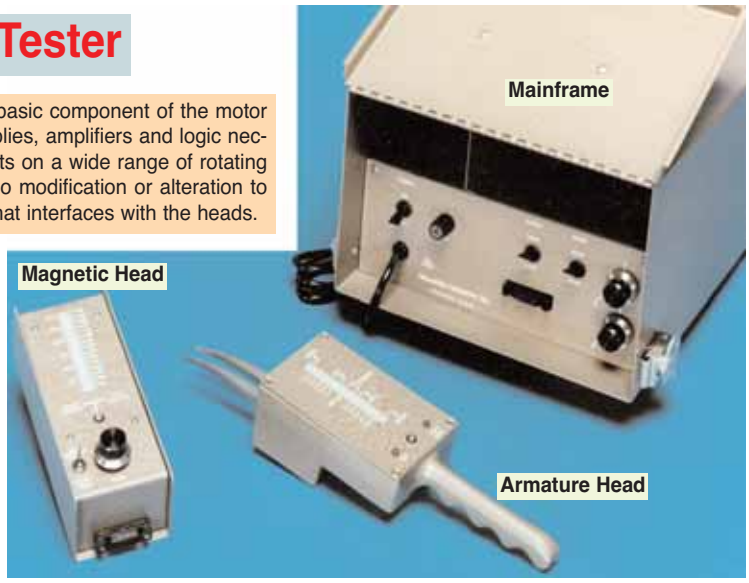
Catalog Number

Model 101 Bar to Bar Tester INST101

Net Weight 2 Lbs., Shipping Weight 3 Lbs.

Model MAS Bar to Bar Tester

The ***Model MAS*** Mainframe is a self contained unit that forms the basic component of the motor Analysis System. The Mainframe contains the necessary power supplies, amplifiers and logic necessary to drive the various heads and probes allowing numerous tests on a wide range of rotating equipment. Auxiliary heads may be added at any time and require no modification or alteration to the Mainframe. The Mainframe comes complete with a 7 foot cable that interfaces with the heads.



The ***Armature Head*** performs a four point AC variable frequency test on DC armatures. TheArmature Head in conjunction with the Mainframe automatically selects one of four thousand different frequencies and power levels to match the armature being tested. The automatic feature makes this head fast to set up and easy to use. This permists accurate and repeatable analysis of most common armature problems such as shorts, opens, crossed connections, partial opens or shorts and misconnects. Armatures with equalizers and uneven turns are also easily tested. These features make this Bar to Bar Tester affordable and practical.

The ***Field Coil & Neutral Plane Test Head*** allows testing of series fields, interpoles and shunt fields. When used with the flux probe it is possible to test most coils in the machine without breaking the individual coil connections or isolating the coils from one another. The test quickly identifies coil polarity. The probe measures the impulse magnetic field flux generated by each coil allowing a relative comparison between coils. Shorted turns are indicated as a reduction in flux generated by a coil. This head allows easy and precise setting of neutral plane.

Since this head supplies all impulse power to the fields being tested, there is no need to connect the motor to a test panel or any other power source.

This head comes with the Flux Probe and all necessary cables.

Specifications:

Main Frame:
- 120 V or 220 V
- Size: 10-1/2 x 7-1/2 x 15"
- Weight: 26 lbs. net

Armature Head:
- Power supplied by Main Frame
- Test Frequency: 100hz 5khz
- Max. Current Output: 2.5 amps true rms
- Readout: 30 segment solid state bar graph

Field Coil & Neutral Plane Test Head:
- Power supplied by Main Frame
- Output: Unipolar pulse
- Output Current: 40amps (short circuit)
- Pulse Width: 6ms and .5sec
- Repetition Rate: 10hz and 1.5hz switch selectable
- Readout: 30 segment bar graph

Catalog Number

Model MAS Bar to Bar Tester, 115 V. . . .INSTMAS

Model MAS Bar to Bar Tester, 230 V. . .INSTMASB

Net Weight 28 Lbs., Shipping Weight 33 Lbs.

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