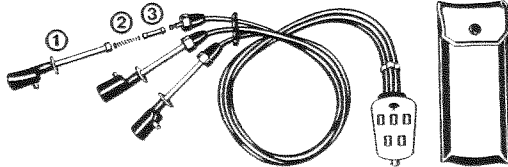


REPLACEMENT ITEM IDENTIFICATION

Catalog No. 565250, complete as shown below.



- ① Boot protected alligator clip test connectors:
 Catalog No. 565250-1 Red
 -2 Yellow
 -3 Blue
- ② Catalog No. 565250-4 Coil Spring $\frac{1}{16}$ " \times $1\frac{1}{8}$ " (3).
- ③ Catalog No. 565250-5 Fuse 500mA 440V, Belling-Lee
 L693 Ceramic (3 required)

Do not attempt to use or repair a defective or damaged instrument; return it to us for examination and repair, with a written explanation of the trouble.

WARRANTY

All products supplied by the James G. Biddle Co. are warranted against all defects in material and workmanship for a period of one year following shipment. Our liability is specifically limited to relacing or repairing, at our option, defective equipment. Equipment returned to the factory for repair will be shipped Prepaid and Insured. The warranty does not include batteries, lamps, or tubes, where the original manufacturer's warranty shall apply. **WE MAKE NO OTHER WARRANTY.**

The warranty is void in the event of abuse or failure by the customer to perform specified maintenance as indicated in **CAUTION** notations in this manual.

REPAIRS

The James G. Biddle Co. maintains a complete instrument repair service. Should this instrument ever require repairs, we recommend that it be returned to the factory for repair by our instrument specialists. When returning instruments for repairs, either in or out of warranty, they should be shipped Prepaid and Insured, and marked for the attention of the Instrument Service Manager.

For complete list of accessories and other Speed Measuring Instruments, please contact:

JAMES G. BIDDLE CO.
 TOWNSHIP LINE AND JOLLY ROADS
 PLYMOUTH MEETING, PA. 19462
 215-646-9200

INSTRUCTIONS
BIDDLE PHASE AND CONTINUITY INDICATOR

The **Biddle Phase and Continuity Indicator** provides positive identification of phase sequence of energized 3-phase 40/60 Hz ac power lines from 100 to 600 volts. This primary function, coupled with the related testing of phase continuity and faults, permits the user to be completely confident of the power supply.

The Indicator Test Set consists of an impact resistant plastic case containing encapsulated circuitry incorporating three neon tubes to indicate phase continuity, and two neon tubes for phase sequence indication, plus three heavily insulated, color-coded, 36-inch fused test leads with boot protected alligator clips; all in a carrying case.

TEST PROCEDURE

WARNING: Approach and connect indicator to any power termination with extreme care and utilize all safety procedures.

CAUTION: Periodically continuity test each fuse and visually inspect each neoprene shroud of the test leads. Replace if defective.

1. Continuity Test:

- Connect the boot protected alligator clips of the red, yellow and blue fused leads to the three phase lines; if identified, then to phases A, B and C respectively; or if not identified, then without any regard to their order.
- Energize the circuit, if not already energized. If continuity is complete, all three top row neon tubes will light.
- If only one top row neon tube lights, then that phase line is faulty and must be corrected.

2. Phase Sequence Test:

- With full continuity being indicated by all three top row neon tubes, observe the bottom row of two neon tubes for phase sequence. Either the A-B-C neon tube or the A-C-B neon tube will be lighted.
- If the A-C-B neon tube is lighted, correct the lead connections to obtain A-B-C indication.
- Identify the phase lines accordingly.