

# PBS-4100

## System Calibration and Repair Services

*When a cable is accidentally damaged, or annual calibration is due for your PBS-4100 system, factory service is a time and cost effective alternative to in-house service. Original procedures, factory-specified parts and factory-trained personnel ensure the highest accuracy, and fast turn-around.*

**An Annual Calibration** of your PBS-4100 System ensures accurate vibration measurements and optimal balancing solutions. Calibrations are performed by factory trained technicians using Government traceable standards and computerized test equipment. Each system undergoes more than 35 individual tests using special factory test equipment and procedures. Each unit is tested to original specifications and receives a complete original-equipment factory acceptance test.



**Cable repairs** are performed at factory designed assembly fixtures. All repairs utilize 100% new components and are re-fabricated per original factory drawings to ensure the highest level of quality. After the repairs have been completed, each cable receive a 100% factory quality inspection which includes continuity testing, cross-wiring short circuit testing, and insulation quality (megger) testing.

**Component repairs** are performed by factory trained technicians to quickly isolate problems and repair your equipment. All necessary drawings, schematics, and testing procedures are available to ensure speed and accuracy of the repairs. All repair parts are drawn from factory inventories to ensure conformance with original design and performance requirements. Repaired equipment receives rigorous performance and quality testing identical to original equipment tests.



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**More than 5,000 parts** are required to fabricate a PBS-4100 system. We maintain a full inventory of original quality repair parts in inventory to ensure rapid and precise repair of all equipment. Factory specified parts ensure continued reliability and performance of your system.



**Receive more than just a calibration. Factory Calibration and Repair Service ensures that your system will receive a complete factory quality examination.**

### ***High Accuracy is ensured –***

- ❑ Calibration tested to 0.2% using proprietary procedures
- ❑ Charge Amplifiers tested and calibrated to 0.1% accuracy
- ❑ System frequency response is checked to 10KHz
- ❑ Speed channels are all checked for proper N/REV mode operation
- ❑ Speed channels are all checked for 0.02% accuracy

### ***System Hardware is checked –***

- ❑ Ethernet communication link is tested
- ❑ Computer disk drives are checked for errors
- ❑ Power supplies and grounds are tested
- ❑ Hardware upgrades are incorporated, as required, at no charge.
- ❑ All cables are checked for continuity and insulation integrity
- ❑ All repair parts in stock

### ***System software is checked –***

- ❑ Software upgrades are incorporated, as required, at no charge.
- ❑ Engine parameter settings checked to ensure they are set properly
- ❑ Computers are checked for virus and cleaned if required

### ***The work is certified –***

- ❑ Receive a calibration certificate with your returned equipment, tested to ANSI Z-540 and traceable to NIST

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**FAST turnaround is our objective** for your PBS-4100 systems. Most calibration work (if scheduled at least 1 week in advance) can be back to you within 48 hours provided there are no major repair repairs required.

**Maintain the accuracy and productivity** of your PBS-4100 systems and accessories. Ensure that your system receives the highest level of maintenance and calibration services possible. Call toll-free **1-800-342-2203** to review and schedule your calibration and repair work with a member of our PBS support team.

**Visit our Web Site** at: [www.mtiinstruments.com](http://www.mtiinstruments.com) to learn more about MTI Instruments and the wide product offerings of precision measurement solutions.