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[Data Weighing Systems, Inc.](#)

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For immediate assistance call
1-800-750-6842

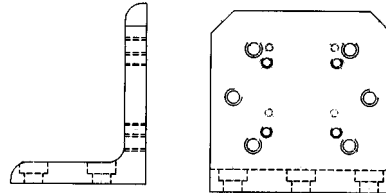
BMX Transducer Operation Instructions

Rev 1.0

BMX Transducer Mounting

The BMX transducer needs to be mounted securely before operating. Immobilizing the transducer is critical for the safety of the operator as well as for the accuracy of torque measurements during operation. A loose BMX transducer during utilization can impact the validity of torque readings. Mountz offers mounting brackets for the BMX transducers.

For BMX Models	Item #
BMX20z thru BMX500F models	062109
BMX1000F thru BMX2500F models	062129
BMX5000F model	062128

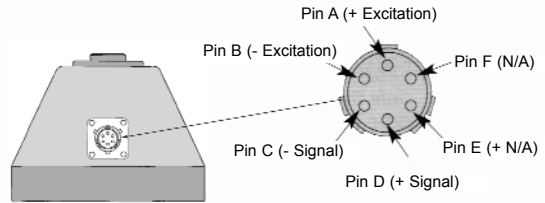


BMX Cabling/Connecting

Attach the appropriate cable (sold separately) for connecting the BMX with a Mountz Torque Analyzer:

For non-Mountz Torque Analyzers, please reference Pin Diagram. Mountz can make cables for non-Mountz Torque Analyzers, please contact Customer Service at 408-292-2214.

<u>Mountz Analyzer</u>	<u>Cable Item #</u>
TorqueMate® Plus	065145-XD5
TorqueLab®	065145-XD5
Wizard	065145-WD5
Wizard Plus	065180
Super Series	065145-XD5 & 065126*
	*(Stic Box needed)



Operating BMX

Once the BMX is connected with a Mountz Torque Analyzer, follow the instructions in the Torque Analyzer manual for accessing external transducers.

Using Hand Tools

Make sure the tool is within the torque range of the BMX model. If the tool is under the torque range, then the accuracy may not be reliable. If the tool is over the torque range, then you may overtorque the BMX and damage the transducer. Place the wrench or screwdriver's drive into the BMX's F/Square Drive and apply torque. You may require adapters for calibration or tool checks. Always make certain adapters are as short as possible and fit properly, with little "play."

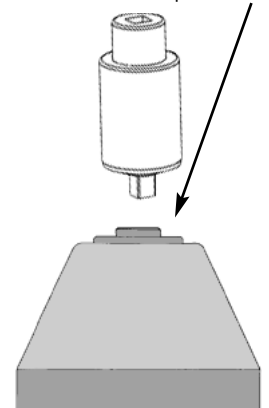
Using Power Tools

Make sure the tool is within the torque range of the BMX model. If the tool is under the torque range, then the accuracy may not be reliable. If the tool is over the torque range, then you may overtorque the BMX and damage the transducer.

Always use a quality joint rate simulator (run down adapter) when testing power tools in a simulated application. Place the rundown adapter in the BMX as shown in the drawing on the right. Then place a Square Drive Adapter into the bit socket of the power tool and then slide it into the run down Adapter.

Switch the driver into "Forward" mode and apply torque. Once the rundown is complete, switch the driver in "Reverse" and reverse the Run Down Adapter to a consistent "home" position.

Place Run Down Adapter into BMX





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Calibration Procedures

1. Attach the BMX securely to a work surface with the cable connector toward the top so that the axis of tool rotation is parallel to the ground.
2. Connect the BMX to a torque analyzer/display. Review the torque range of the transducer and select the appropriate measurement units.
3. Determine type of calibration to be performed.
Calibration at 3 Pts. Test at 10%, 50% and 100 of Full Scale.
Calibration at 6 Pts. Test at 10%, 20%, 40%, 60% 80% and 100 of Full Scale.
Direction Clockwise and/or Counter Clockwise
4. Select the appropriate Calibration Arm or Wheel. Attach it to the input drive of the BMX.
5. Gently connect the Hanger to the Calibration Arm or wheel.
6. Load 3 times to minimum 80% FS in direction of operation and reset to zero after loading.
7. Apply series of increasing torques in direction of operation starting from the lowest test point.
8. Record readings from the test device at each test point prior to performing any adjustments.
9. Repeat steps 6-8 in the opposite direction (if required).
10. Perform calibration adjustments. Repeat test as described above until readings at all test points are within tolerances.
11. Repeat test as described above and record 5 readings from test device at each test point. Compile all necessary details to generate test report.
12. Remove old calibration label and place new label on transducer.

Mountz Calibration & Repair Services

With over 39 years of experience, Mountz features an experienced calibration and repair staff that delivers rapid service and provides quality that you can trust. Mountz features a new state-of-the-art calibration lab and a repair facility. The Calibration Lab can calibrate up to 20,000 lbf.ft. Our certified technicians can calibrate & repair most any tool and our calibration standards are traceable to NIST (National Institute of Standards and Technology). Mountz factory service provides current upgrades for all digital torque analyzers at time of service.

Mountz Service Centers

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