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E-RAD FIELD CALIBRATION SYSTEM SET UP

General Information

RAD's Field Calibration System for the E-RAD 2000 and 3000 is approved and required for the use of the E-Series Torque Systems with the construction and maintenance of GE Wind Energy Wind Turbines.

This unit has been developed for the Wind Industry and allows the standard E-RAD 3000 reaction arm and custom E-RAD 2000 reaction arm to be used directly on the system. With this system, there will be no need to switch the reaction arms on the tools for calibration and this will decrease the time needed for calibration of the tools and simulate the application.

The GE approved Field Calibration System provides a torque range of 250-5000 lb/ft and allows for calibration of the E-RAD 2000 for the blade bolt application along with the E-RAD 3000 for the tower sections. This system will be provided with the below components.



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Components Included

Please ensure that all the components listed below are provided with your E-RAD Field Calibration System.

- 1: Calibration Plate (15176)
- 2: Socket (11016)
- 3: Transducer (11547)
- 4: Display (11544)
- 5: Cable (10731)
- 6: Reducer (11015)
- 7: Joint Simulator (11019)



Set-Up

1. Align the transducer, joint simulator and socket in the order shown in the picture.





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2. Fit the joint simulator and transducer assembly into the calibration plate with the transducer mating into the female 1.5" fitting in the calibration plate.



3. Connect the cable aligning the red dots on the cable with the red markings on the display and transducer.



4. The E-RAD Field Calibration System is designed so that the standard reaction arm can be used on the calibration system. Insert the square drive of the tool into the socket and align the reaction arm into the machined opening in the bottom of the calibration plate. Once this arm is secured into the reaction plate, this will provide a safe and functional reaction point to carry out the calibration procedure.





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Operation

Make sure that your calibration system is set up to record the peak reading on the display.

For detailed information on the set up of the transducer and display, please refer to the manual provided with the transducer assembly.

Please refer to your E-RAD User Manual for detailed calibration procedures on E-RAD Calibration.

Maintenance

The joint simulator will require maintenance to ensure that there is proper lubrication and that the components are in good condition. Please see the below for detailed information on maintaining your system.



1. Disassemble the joint simulator periodically, clean thoroughly and re lubricate using Loctite Nickel Anti-Seize.
2. If significant damage has occurred on the washers, please replace as this will greatly increase the friction in the joint simulator.
3. If the bolt or run down fixture is damaged, please contact your authorized RAD distributor for details.





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The E-RAD Field Calibration System is now set up and ready for use. Please follow the instructions provided in the E-RAD User Manual for detailed information on how to calibrate your E-RAD.



Please contact Global Mining Products for any additional support needed at:

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