VibrAlign Laser Alignment Tips

Field Check

Please bear in mind that this is not a calibration procedure, nor a check of the calibration. A true calibration check requires the use of special fixtures, traceable standards, and precise positioning/movement of the TD units. This field check is a quick and convenient way to simply check the performance of the detectors.

To perform a field check of the Combi-Laser system:

Set up the magnetic bases, fixtures and rods that come with the system (as for a straightness measurement).

Mount the TDS and TDM on the magnetic bases, and position the TD units about 3 inches apart.

Turn on the system

Go into the shaft alignment program (program 1)

With the detector covers closed, aim the lasers so that they hit the center of the opposing targets

Open the detector targets

Press the 9:00 key to zero the detectors, wait about 2 seconds then press the 3:00 key, wait about 2 seconds then press the 12:00 key

Place a shim of known thickness under the magnet of the TDM

Read the TDM value on the Combi-Laser (disregard the TDS value). This value should closely match the thickness of the shim that was used.

Carefully remove the shim from beneath the magnetic base holding the TDM.

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If the values do not return to zero it might be necessary to re-zero the unit (step 7).

Steps 8 – 10 should be repeated for a 5 mil shim, 10 mil shim and 15 mil shim.

Now repeat steps 8 – 11 for the TDS.

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