



Vertical Measurement Calibration

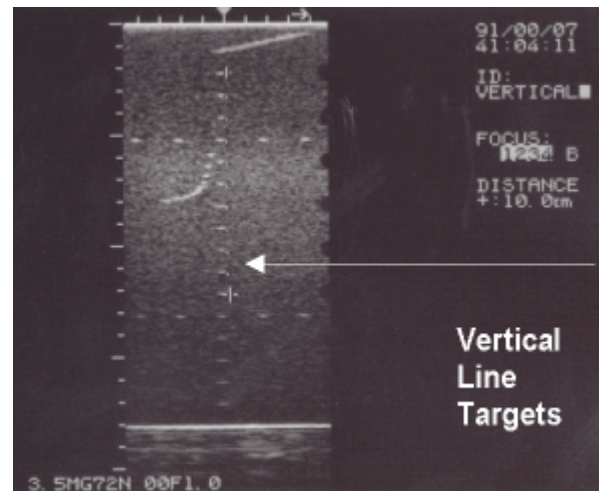
Description and Reason For Testing

Vertical distance measurements are obtained along the axis of the sound beam. Accurate representation of the size, depth and volume of a structure is a critical factor in a proper diagnosis. Most imaging systems use depth markers and/or electronic calipers to obtain these measurements. The phantom is scanned and a distance measurement obtained using the timing markers and/or electronic calipers. The resulting measurement is then compared to the known distance between the line targets in the phantom. The accuracy of vertical distance measurements depends on the integrity of the timing circuitry of the imaging system.

Testing Procedure

1. Position the transducer over the vertical group of line targets until a clear image is obtained. Freeze the display.

2. Using the electronic calipers or the timing markers measure the greatest distance that can be clearly imaged between line targets.
3. Document the measurement obtained on the quality assurance record.



Results

The system's vertical distances measurements should remain consistent from week to week when using the same instrument settings and ATS Laboratories' phantom. Compare the test results obtained from the baseline records. If the current image demonstrates changes in the system's ability to resolve these targets, corrective action should be considered.