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SURFACE SYSTEMS & INSTRUMENTS, INC.

smoothroad.com

Custom Test Equipment • Mobile Technology Solutions • Inertial Profilers • ADA Compliance • FF/FL Testing

Inertial Profiler Laser Height Verification

Under AASHTO r56 and other similar specifications inertial profilers must pass a height verification. Note that is test is not a calibration for SSI profiling systems. This test only verifies the functionality of the laser sensor.

Under AASHTO r56 the laser height verification must be within 0.01-inch accuracy. Usually, the test is performed over four blocks; 0.25", 0.50", 1.0", and 2.0". The measurement range of a typical Gocator laser is 7.87-15.7 inches (200-400mm).

If the results of the height verification are not within tolerance check the following:

1. Make sure sunlight is not reflecting off of the blocks up into the laser
2. Check for dents, chips and damage on the laser and laser lens
3. Check for bent pins in the connector
4. The base plate is on solid ground and does not rock or shift when blocks are added
5. That all three Gocator LEDs (Power, Range, Laser) are illuminated over all four blocks
 - a. Especially the RANGE light
6. Protect the truck from high winds
7. Close the doors of the vehicle and don't have anyone get into or sit in the vehicle.
8. Clean the lens of the laser with a microfiber cloth
9. Correct laser model setting selected within Collect>System Settings

Contact SSI using the header information above if you have questions on the diagnostic process.