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JJG

NATIONAL METROLOGY VERIFICATION REGULATION OF THE PEOPLE'S REPUBLIC OF CHINA

JJG 1074-2012

Verification Regulation of Vehicle Laser Speed Measurement Device

机动车激光测速仪

(English Translation)

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Introduction

JJG 1074-2012 "vehicle laser gun" basis JJF1002-2010 "national verification procedures compiled Write the rules ", JJF1001-1998" common measurement terms and definitions ", JJF1059-1999" Measurement Uncertainty assessment and given that "family norm-setting and other infrastructure.

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JJG 1074-2012 "vehicle laser gun" main reference GB/T 21255-2007 "Motor Vehicle Speedometer ", JJG 527-2007" vehicle speed automatic monitoring system ", JJG 528-2004" Ray motor vehicle Speedometer up "and IACPLIDAR Module.2006" SPEED-MEASURINGDEVICEPER-FORMANCESPECIFICATIONS. LIDARMODULE "formulation, and in accordance with domestic laser gun Usage, adds dual laser gun related content.

Vehicle laser gun verification procedures

1 Scope

The order applies to motor vehicle mobile laser gun (including handheld) and pulsed laser velocimetry principle Speed overdrive automatic vehicle monitoring system unit (hereinafter referred to as "laser gun") velocity measurement of performance for the first time Test, test and subsequent use of checks.

2. References

This procedure references the following documents.

JJG 527-2007 vehicle speed automatic monitoring system JJG 528-2004 vehicle radar gun JJF1094-2002 measuring instrument characteristics evaluation GB 7247.1-2001 Safety of laser products - Part 1. Equipment Classification, Requirements and User's Guide GB/T 21255-2007 vehicle speedometer for dated references, only the dated edition applies to this procedure; undated reference documents Member, the latest edition (including any amendments) applies to this procedure.

3 terminology and units of measurement 3.1 pulse laser gun lightdetectionandranging by a semiconductor laser emits a narrow laser pulse train to the measured target, a series of successive fixed time interval Laser ranging, to give the measured target position of the sequence relative to the measurement point changes with time, to thereby obtain the measured target mobile speed.

3.2 vehicle laser gun simulation verification device simulatorforlidarspeed-measuringdevice Pulsed laser beam for periodically receiving the vehicle speed laser gun or a laser emitting unit, and send Detection value corresponding to the set simulation speed, distance and direction of travel of the corresponding time delay after the pulsed laser beam equipment.

4 Overview

Laser gun is the use of laser speed principle, the vehicle speed measuring instruments. According to how the points Mobile and fixed, structured into a single beam and double beam.

5 metering performance requirements 5.1 pulse repetition rate of change <=0.1%.

5.2 speed range

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Approaching and leaving direction is at least satisfied (20 ~ 180) km/h.

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