KIRKLAND POLICE DEPARTMENT
TRAFFIC DIVISION

CERTIFICATION OF VEHICLE SPEEDOMETERS

Lidar Unit: Kustom Signals Pro-Lite+ #LP03383
Tuning forks: N/A

P160

DATE/TIME: 09/30/2020 @ 1059 hrs
LIDAR OPERATOR: Ofc. Spak #364
PATROL UNIT OPERATOR: Ofc. Shepard #607
LOCATION: 10000 block of Slater Ave NE

On the above date and time while employed by the City of Kirkland, certified Police Officer **Spak** was using the above speed measuring device to certify the speedometer of **Unit,** P160 VIN# 1FM5K8AR7HGA24628. The Lidar unit is handheld, optically aimed and used in the stationary mode. **Officer Spak** has been instructed on the use of Lidar units and is qualified to set up, test, and operate this Lidar unit (copy of certification on file with training unit).

During the certification of **Unit P160, Officer Spak** was able to isolate the Patrol unit which was traveling at a constant speed: 30 MPH on first test and 40 MPH on second test. There were no other vehicles in the vicinity at the time of the tests. The Lidar unit was operating properly and it gave **Officer Spak** a clear and fast staccato tone, indicating proper aiming of the unit. The Lidar unit then gave a clear and solid "target Acquisition" tone. No low battery warning was heard and RFI was not detected. **Officer Spak** verified the Lidar unit was operating properly before and after the test by conducting an internal light check, internal circuitry check, and sight alignment test. **Officer Spak** also tested the unit's range capabilities on an established calibrated range testing area. Range test distances used were 50ft., 75ft., and 180ft. These measurements were obtained using a steel tape measure.

PATROL Unit **P160** was operated by **Officer Shepard** , a certified Police Officer with the City of Kirkland. **Officer Shepard** was in radio contact with **Officer Spak** . At the time that **Officer Shepard** had the vehicle's speedometer maintained at first 30 MPH on the first test, and then 40 MPH on the second test, he notified **Officer Spak** by radio. **Officer Spak** took a Lidar reading at the moment **Officer Shepard** gave a verbal notice over the radio. **Officer Shepard** maintained the constant speed of first 30 MPH and then 40 MPH beyond the time required by **Officer Spak** to obtain an accurate reading. Vehicle mileage: 57,108 at time of certification.

I certify or declare under the penalty of perjury under the laws of the state of Washington that the foregoing is true and correct.

Officer: _____ Date: 09/30/2020 Kirkland, Washington

Officer: _____ Date: 09/30/2020 Kirkland, Washington

Check Speed	LIDAR Speed	Officer # Initial	Vehicle Speed	Officer # Initial	Date/time	LIDAR
30 mph	30mph 340ft	364 GPS	30mph	607 DH	09/30/2020 1059 hrs	Kustom Signals Pro-Lite+ #LP03383
40 mph	40mph 569pft	364 GPS	40mph	607 DH	09/30/2020 1100 hrs	Kustom Signals Pro-Lite+ #LP03383

CERTIFICATE OF ACCURACY

KUSTOM SIGNALS, INC.

1010 WEST CHESTNUT, PO BOX 947 CHANUTE, KS 66720-0947

This is to certify that on the 29 day of March, 2021 the below instrument met the manufacturer's specifications.

Manufacturer: Kustom Signals, Inc.

Indicator type: Raptor RP-Z

Serial Number: RP37277

MPH X KM/H _____ KNOTS _____ OTHER _____

The instruments used to certify the above equipment have been calibrated within the previous year and calibration is traceable to the National Institute of Standards and Technology.

Signed: _____ Title: Technician

Subscribed and sworn to me this 29 day of March, 2021

NOTARY PUBLIC _____

PAUL D. WENGER
Notary Public - State of Kansas
My Appt. Expires 7/14/22

006-0725-00 Rev. 2

Kustom Signals, Inc.

Tuning Fork Certification of Accuracy

This is to certify that

Kustom K-Band Tuning Fork SN 62354 has been tested and found to oscillate at 2542 HERTZ at 21 °C. When used with a Kustom K-Band Doppler traffic radar operating at 24150 MHz, will cause a calibration signal of 35 MPH.

(Temperature correction factor: -0.02 MPH/°C)

DATE 3/15/2021 Certified by Andy Y. Deeges

The instrument used to certify the frequency of the above tuning fork has been calibrated within the previous year and is traceable to the National Institute of Standards and Technology.

KUSTOM SIGNALS, INC

1010 W. CHESTNUT CHANUTE, KANSAS 66720

006-0955-00

Kustom Signals, Inc.

Tuning Fork Certification of Accuracy

This is to certify that

Kustom K-Band Tuning Fork SN 62371 has been tested and found to oscillate at 4731 HERTZ at 21 °C. When used with a Kustom K-Band Doppler traffic radar operating at 24150 MHz, will cause a calibration signal of 65 MPH.

(Temperature correction factor: -0.02 MPH/°C)

DATE 3/15/2021 Certified by Andy J. Daeges

The instrument used to certify the frequency of the above tuning fork has been calibrated within the previous year and is traceable to the National Institute of Standards and Technology.

KUSTOM SIGNALS, INC.

1010 W. CHESTNUT CHANUTE, KANSAS 66720

006-0955-00