

FILED

JAN 25 2019

KIRKLAND
MUNICIPAL COURT

CERTIFICATION CONCERNING DESIGN & CONSTRUCTION
OF SPEED MEASURING DEVICES "RADAR"

STATE OF WASHINGTON
COUNTY OF KING

I, Edward E. Cole, swear under penalty of perjury of the laws of the State of Washington, that the following is true and correct:

- 1) I am employed by, and proprietor of, **Wescom Communications** located at 207 SW 41st Street, Renton WA 98055, telephone (425) 251-6666;
- 2) In this employment, I maintain, repair, calibrate and certify the accuracy of electronic speed measuring devices;
- 3) Wescom is retained by the **City of Kirkland Police Department** to maintain, repair, calibrate and certify electronic speed measuring devices;
- 4) I have the following education, experience and qualifications with respect to maintaining, repairing, calibrating and certifying speed measuring devices:
 - a) I hold a Federal Communications Commission license with, a radar endorsement; dated August 1984, license #PG-14-1247;
 - b) I am a N.A.B.E.R. Certified Electronic Technician, and hold a National Association of Business and Educational Radio certificate, dated August 1984;
 - c) I have successfully completed a two (2) year course at Clover Park Vocational Technical College and hold a Land, Mobile, Marine Communications certificate, dated July 1985;
 - d) I have successfully completed a radar Manufacturer's training course which encompassed the design and construction of radar instruments, the repair, maintenance, calibration and certifying of speed measuring devices, and hold a Kustom Traffic Radar Safety Systems certificate, dated May 1987;
 - e) I have accumulated over 30 years and approximately twenty thousand (20,000) hours in repair, maintenance, calibration and certification of speed measuring devices, as of the date of this affidavit;
- 5) Wescom is an authorized service center for speed measuring devices, and as a course of business, maintains service manuals with schematics on these radar instruments, of which I am personally familiar, and make these available for inspection, upon request, at the above office address, for any contest of a notice of infraction;
- 6) Through education and experience, am personally familiar with the design, construction, and operation of these speed measuring devices, which are designed and constructed to accurately employ the Doppler radar principal;
- 7) Wescom maintains a quality assurance testing, calibration, and certification program wherein each speed measuring device is routinely inspected and tested approximately every 12 months by the following means:
 - a) **Precision Signal Generator test**; a frequency injection test which simulates a vehicle's speed through changing frequencies wherein each speed measuring device must correctly measure and register those simulated speeds in order to be certified accurate;
 - b) **General Operation and Maintenance Check**, wherein all components of the speed measuring device are checked for accurate operation;
 - c) **Internal Calibration Test**, wherein each speed measuring device's internal calibration is verified ;
 - d) **Radio Frequency Interference Check**, wherein each speed measuring device's Radio Frequency Interference detection circuitry is verified;
 - e) **Tuning Fork Test**, wherein each speed measuring device's measurement and reading is checked against a known result indicated on the tuning fork;
 - f) **Field Test**, where in all operations of each speed measuring device are checked by testing against conditions in the field;

8) The speed measuring device/radar instrument listed below was submitted to Wescom Communications by the, City of Kirkland Police Department to be tested and evaluated by the quality assurance program noted above, and pursuant to that request, I Edward E. Cole, performed all of the program tests, and found that this speed measuring device/radar met or exceeded existing performance standards;

9) Based upon my education, training and experience, and my knowledge of the speed measuring device listed below, it is my opinion that this instrument is so designed and constructed as to accurately and reliably employ the Doppler effect in such a manner that it will give accurate measurements of the speed of motor vehicles, when properly calibrated and operated by a trained operator, to within plus (+) or minus (-) one (1) mile per hour.

Kustom Talon T1100, tuning fork 30485 55mph.	Test Date 01-08-2019.
Kustom Talon II TA04493, tuning fork 22235 30mph. 23603 55mph.	Test Date 01-08-2019.
Kustom Talon II TA04494, tuning fork 7152 30mph. 18108 55mph.	Test Date 01-08-2019.
Kustom Talon II TA04552, tuning fork 60225 55mph.	Test Date 01-08-2019.
Kustom Falcon HR, FH01739, tuning fork 39294 65mph.	Test Date 01-08-2019.
Kustom Falcon HR, FH01759, tuning fork 17389 50mph.	Test Date 01-08-2019.
Kustom Falcon HR, FH01761, tuning fork 39295 65mph.	Test Date 01-08-2019.
Kustom Falcon HR, FH01762, tuning fork 51345 65mph.	Test Date 01-08-2019.
Kustom Falcon HR, FH01766, tuning fork 39293 65mph.	Test Date 01-08-2019.
Kustom Falcon HR, FH04324, tuning fork 48555 35mph.	Test Date 01-08-2019.
Kustom Falcon HR, FH04326, tuning fork 48568 35mph.	Test Date 01-03-2018.
Kustom Falcon HR, FH04328, tuning fork 27570 50mph.	Test Date 01-08-2019.
Kustom Falcon HR, FH04329, tuning fork 52158 35mph.	Test Date 01-08-2019.
Kustom Falcon HR, FH05022, tuning fork 299320 35mph.	Test Date 01-03-2018.
Kustom Falcon HR, FH05612, tuning fork 18262 50mph.	Test Date 01-08-2019.
Kustom Falcon HR, FH05613, tuning fork 65053 35mph.	Test Date 01-08-2019.
Kustom Falcon HR, FH05614, tuning fork 52152 35mph.	Test Date 01-08-2019.
Kustom Falcon HR, FH05615, tuning fork 52156 35mph.	Test Date 01-03-2018.
Kustom Falcon HR, FH05616, tuning fork 52155 35mph.	Test Date 01-08-2019.
Kustom Falcon HR, FH05617, tuning fork 52154 35mph.	Test Date 01-08-2019.
Kustom Falcon HR, FH05814, tuning fork 52734 35mph.	Test Date 01-08-2019.
Kustom Falcon HR, FH06765, tuning fork 55845 35mph. 51586 65mph.	Test Date 01-08-2019.
Kustom Falcon HR, FH08469, tuning fork 60173 35mph.	Test Date 01-03-2018.
Kustom Falcon HR, FH09083, tuning fork 42990 65mph.	Test Date 01-08-2019.
Kustom Falcon HR, FH09085, tuning fork 18946 50mph.	Test Date 01-08-2019.
Kustom Falcon HR, FH11051, tuning fork 70597 35mph. 63992 65mph.	Test Date 01-08-2019.
Kustom Falcon HR, FH11136, tuning fork 70809 35mph. 63983 65mph.	Test Date 01-08-2019.
Kustom Falcon HR, FH11137, tuning fork 70054 35mph. 63851 65mph.	Test Date 01-08-2019.
Kustom Falcon HR, FH11138, tuning fork 70057 35mph. 63858 65mph.	Test Date 01-03-2018.
Kustom Falcon HR, FH11139, tuning fork 70051 35mph. 63850 65mph.	Test Date 01-08-2019.
Kustom Falcon HR, FH11140, tuning fork 70807 35mph. 63853 65mph.	Test Date 01-03-2018.
Kustom Falcon HR, FH11141, tuning fork 70805 35mph. 63982 65mph.	Test Date 01-08-2019.
Decatur Genesis GHD 01092, tuning fork 127786 33mph. 127457 77mph.	Test Date 01-08-2019.
Decatur Genesis GHD 01143, tuning fork 127802 33mph. 127533 77mph.	Test Date 01-08-2019.

State of Washington County of King

Signature:  Printed Name: Edward E. Cole
Date and Place: 1-24-2019 Renton.

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