

ONSITE DAILY SUMMARY LIST
ONSITE DATE: Tuesday, January 20, 2015

BLACK DIAMOND PD

CURRENT PO:

INVOICE

ID	MANUFACTURER	MODEL NUMBER	DESCRIPTION	DEPARTMENT
AA-8476	KUSTOM	HR-12	SPEED MEASURING DEVICE	
FF18686	KUSTOM	FALCON	SPEED MEASURING DEVICE	MARINE UNIT
FF6630	KUSTOM	FALCON	SPEED MEASURING DEVICE	
FH08200	KUSTOM	FALCON HR	SPEED MEASURING DEVICE	
PL27232	KUSTOM	PRO LASER III	SMD	
RP01593	KUSTOM	RP-1	SPEED MEASURING DEVICE	
RP05744	KUSTOM	RP-1	SPEED MEASURING DEVICE	
RP15985	KUSTOM	RP-1	SPEED MEASURING DEVICE	
XE04292	KUSTOM	GOLDEN EAGLE II	SPEED MEASURING DEVICE	
XE04293	KUSTOM	GOLDEN EAGLE II	SPEED MEASURING DEVICE	
XE04310	KUSTOM	GOLDEN EAGLE II	SPEED MEASURING DEVICE	

Number Processed: 11

Customer Signature: _____

Date: _____



12026 115th Ave NE, Suite 102, Kirkland, WA 98034

T.425.895.8617, F.425.702.9358

ON-SITE CERTIFICATE #: OS2-00026371

CERTIFICATE OF CALIBRATION

STANDARD CALIBRATION

BLACK DIAMOND POLICE DEPARTMENT

25510 LAWSON STREET BLACK DIAMOND, WA 98010

This certifies that the instrument listed herein was calibrated by Cascade Engineering Services' Calibration Laboratory, which is fully accredited in accordance with the recognized International Standards ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories. Cascade Engineering Services' Calibration Laboratory also meets the requirements of ANSI/NCSL Z540-1-1994 and any additional program requirements in the field of calibration. Standards used to perform this calibration are certified by or traceable to NIST, natural physical constants, consensus standards or derived by the ratio type of calibrations. All calibrations are performed to manufacturer's specifications unless otherwise noted. Standard Calibration, while still traceable, does not meet all requirements for an Accredited Calibration per ISO/IEC 17025:2005, that is As Found data for equipment in tolerance and Measurement Uncertainties are not recorded. This certificate shall not be reproduced, except in full, without prior written approval of the laboratory.

DESCRIPTION:		SPEED MEASURING DEVICE	
ASSET #:	RP15985	SERIAL NUMBER:	RP15985
MANUFACTURER:	KUSTOM	MODEL NUMBER:	RP-1
DEPARTMENT:		PATROL CAR #:	
ENVIRONMENT:	69.7 °F/35.7 %RH	BASIC ACCURACY:	REFERENCE MFR SPECIFICATIONS
CAL INTERVAL:	12 MONTHS	DUE DATE:	January 20, 2016

EQUIPMENT CONDITION AS RECEIVED

Initial testing found this equipment to be "IN TOLERANCE", as defined by the basic accuracy stated above.

EQUIPMENT CONDITION AS DELIVERED

At the completion of the calibration, measured values were "IN TOLERANCE", as defined by the basic accuracy stated above.

TUNNING FORK(S) SUPPLIED WITH THIS DEVICE

DESCRIPTION	SERIAL NUMBER	RATED SPEED	FREQUENCY
TUNNING FORK ONE	63508	35 M.P.H.	2548 Hz
TUNNING FORK TWO	58437	65 M.P.H.	4738 Hz

Antenna 1 SN: RK22221, Frequency: 24.118 GHz

Antenna 2 SN: RK22222, Frequency: 24.122 GHz

STANDARD(S) USED FOR CERTIFICATION

I.D.	MODEL	MANUFACTURER	DESCRIPTION	DUE DATE
MET1387	VOCAR HR	DB INNOVATIONS	HAND HELD RADAR CERTIFICATION SYSTEM	01/13/2016
MET1388	VOCAR-HR WAND	DB INNOVATIONS	VOCAR HR WAND	01/13/2016

PROCEDURE(S) USED FOR CERTIFICATION

DOCUMENT ID	DESCRIPTION	REV	REV DATE
SMD101	DOPPLER RADAR / LIDAR CALIBRATION PROCEDURE	NEW	

CERTIFICATION NOTES

I certify (or declare) under penalty of perjury under the laws of the State of Washington that the above information is true and correct

PERFORMED BY Charlie M. Brown
 CALIBRATION TECHNICIAN: CHARLIE BROWN

LOCATION: BLACK DIAMOND, WA
 CALIBRATION DATE: Tuesday, January 20, 2015



12026 115th Ave NE, Suite 102, Kirkland, WA 98034

T.425.895.8617, F.425.702.9358

ON-SITE CERTIFICATE #: OS2-00026369

CERTIFICATE OF CALIBRATION

STANDARD CALIBRATION

BLACK DIAMOND POLICE DEPARTMENT

25510 LAWSON STREET BLACK DIAMOND, WA 98010

This certifies that the instrument listed herein was calibrated by Cascade Engineering Services' Calibration Laboratory, which is fully accredited in accordance with the recognized International Standards ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories. Cascade Engineering Services' Calibration Laboratory also meets the requirements of ANSI/NCSL Z540-1-1994 and any additional program requirements in the field of calibration. Standards used to perform this calibration are certified by or traceable to NIST, natural physical constants, consensus standards or derived by the ratio type of calibrations. All calibrations are performed to manufacturer's specifications unless otherwise noted. Standard Calibration, while still traceable, does not meet all requirements for an Accredited Calibration per ISO/IEC 17025:2005, that is As Found data for equipment in tolerance and Measurement Uncertainties are not recorded. This certificate shall not be reproduced, except in full, without prior written approval of the laboratory.

DESCRIPTION:		SPEED MEASURING DEVICE	
ASSET #:	RP01593	SERIAL NUMBER:	RP01593
MANUFACTURER:	KUSTOM	MODEL NUMBER:	RP-1
DEPARTMENT:		PATROL CAR #:	
ENVIRONMENT:	69.7 °F/35.7 %RH	BASIC ACCURACY:	REFERENCE MFR SPECIFICATIONS
CAL INTERVAL:	12 MONTHS	DUE DATE:	January 20, 2016

EQUIPMENT CONDITION AS RECEIVED

Initial testing found this equipment to be "IN TOLERANCE", as defined by the basic accuracy stated above.

EQUIPMENT CONDITION AS DELIVERED

At the completion of the calibration, measured values were "IN TOLERANCE", as defined by the basic accuracy stated above.

TUNNING FORK(S) SUPPLIED WITH THIS DEVICE

DESCRIPTION	SERIAL NUMBER	RATED SPEED	FREQUENCY
TUNNING FORK ONE	45296	35 M.P.H.	2550 Hz
TUNNING FORK TWO	43260	65 M.P.H.	4742 Hz

Antenna 1 SN: RK02146, Frequency: 24.121 GHz

Antenna 2 SN: RK02141, Frequency: 24.119 GHz

STANDARD(S) USED FOR CERTIFICATION

I.D.	MODEL	MANUFACTURER	DESCRIPTION	DUE DATE
MET1387	VOCAR HR	DB INNOVATIONS	HAND HELD RADAR CERTIFICATION SYSTEM	01/13/2016
MET1388	VOCAR HR WAND	DB INNOVATIONS	VOCAR HR WAND	01/13/2016

PROCEDURE(S) USED FOR CERTIFICATION

DOCUMENT ID	DESCRIPTION	REV	REV DATE
SMD101	DOPPLER RADAR / LIDAR CALIBRATION PROCEDURE	NEW	

CERTIFICATION NOTES

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PERFORMED BY Charlie M. Brown
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LOCATION: BLACK DIAMOND, WA
 CALIBRATION DATE: Tuesday, January 20, 2015



12026 115th Ave NE, Suite 102, Kirkland, WA 98034

T.425.895.8617, F.425.702.9358

ON-SITE CERTIFICATE #: OS2-00026368

CERTIFICATE OF CALIBRATION

STANDARD CALIBRATION

BLACK DIAMOND POLICE DEPARTMENT

25510 LAWSON STREET BLACK DIAMOND, WA 98010

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DESCRIPTION:

SMD

ASSET #: PL27232
MANUFACTURER: KUSTOM
DEPARTMENT: _____
ENVIRONMENT: 69.7 °F/35.7 %RH
CAL INTERVAL: 12 MONTHS

SERIAL NUMBER: PL27232
MODEL NUMBER: PRO LASER III
PATROL CAR #: _____
BASIC ACCURACY: REFERENCE MFR SPECIFICATIONS
DUE DATE: January 20, 2016

EQUIPMENT CONDITION AS RECEIVED

Initial testing found this equipment to be "IN TOLERANCE", as defined by the basic accuracy stated above.

EQUIPMENT CONDITION AS DELIVERED

At the completion of the calibration, measured values were "IN TOLERANCE", as defined by the basic accuracy stated above.

LASER SYSTEM OUTPUTS

PULSE REFERENCE FREQUENCY 199.9972 Hz

OPTICAL POWER OUTPUT: 180.2 μW

STANDARD(S) USED FOR CERTIFICATION

I.D.	MODEL	MANUFACTURER	DESCRIPTION	DUE DATE
MET1259	NOVA-DISPLAY	OPHIR	LASER POWER METER	11/24/2015
MET1260	PD300-SH	OPHIR	LASER POWER HEAD	11/20/2015
MET1335	7024707	LASER TECHNOLOGY INC	LASER SPEED MEASUREMENT SIMULATOR	06/25/2015
MET1336	7005320	LASER TECHNOLOGY INC	OPTICAL INTERFACE UNIT	

PROCEDURE(S) USED FOR CERTIFICATION

DOCUMENT ID	DESCRIPTION	REV	REV DATE
SMD101	DOPPLER RADAR / LIDAR CALIBRATION PROCEDURE	NEW	

CERTIFICATION NOTES

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PERFORMED BY Charlie M. Brown
 CALIBRATION TECHNICIAN: CHARLIE BROWN

LOCATION: BLACK DIAMOND, WA
CALIBRATION DATE: Tuesday, January 20, 2015



12026 115th Ave NE, Suite 102, Kirkland, WA 98034

T.425.895.8617, F.425.702.9358

ON-SITE CERTIFICATE #: OS2-00026367

CERTIFICATE OF CALIBRATION

STANDARD CALIBRATION

BLACK DIAMOND POLICE DEPARTMENT

25510 LAWSON STREET BLACK DIAMOND, WA 98010

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DESCRIPTION:

SPEED MEASURING DEVICE

ASSET #:	XE04310	SERIAL NUMBER:	XE04310
MANUFACTURER:	KUSTOM	MODEL NUMBER:	GOLDEN EAGLE II
DEPARTMENT:		PATROL CAR #:	
ENVIRONMENT:	69.7 °F/35.7 %RH	BASIC ACCURACY:	REFERENCE MFR SPECIFICATIONS
CAL INTERVAL:	12 MONTHS	DUE DATE:	January 20, 2016

EQUIPMENT CONDITION AS RECEIVED

Initial testing found this equipment to be "IN TOLERANCE", as defined by the basic accuracy stated above.

EQUIPMENT CONDITION AS DELIVERED

At the completion of the calibration, measured values were "IN TOLERANCE", as defined by the basic accuracy stated above.

TUNNING FORK(S) SUPPLIED WITH THIS DEVICE

DESCRIPTION	SERIAL NUMBER	RATED SPEED	FREQUENCY
TUNNING FORK ONE	42184	30 M.P.H.	3214 Hz
TUNNING FORK TWO	41353	55 M.P.H.	5904 Hz

Antenna 1 SN: DE10057, Frequency: 35.469 GHz

Antenna 2 SN: DE10089, Frequency: 35.474 GHz

STANDARD(S) USED FOR CERTIFICATION

I.D.	MODEL	MANUFACTURER	DESCRIPTION	DUE DATE
MET1387	VOCAR HR	DB INNOVATIONS	HAND HELD RADAR CERTIFICATION SYSTEM	01/13/2016
MET1388	VOCAR HR WAND	DB INNOVATIONS	VOCAR HR WAND	01/13/2016

PROCEDURE(S) USED FOR CERTIFICATION

DOCUMENT ID	DESCRIPTION	REV	REV DATE
SMD101	DOPPLER RADAR / LIDAR CALIBRATION PROCEDURE	NEW	

CERTIFICATION NOTES

I certify (or declare) under penalty of perjury under the laws of the State of Washington that the above information is true and correct

PERFORMED BY Charlie M. Brown
 CALIBRATION TECHNICIAN: CHARLIE BROWN

LOCATION: BLACK DIAMOND, WA
 CALIBRATION DATE: Tuesday, January 20, 2015



12026 115th Ave NE, Suite 102, Kirkland, WA 98034

T.425.895.8617, F.425.702.9358

ON-SITE CERTIFICATE #: OS2-00026366

CERTIFICATE OF CALIBRATION

STANDARD CALIBRATION

BLACK DIAMOND POLICE DEPARTMENT

25510 LAWSON STREET BLACK DIAMOND, WA 98010

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DESCRIPTION:		SPEED MEASURING DEVICE	
ASSET #:	FH08200	SERIAL NUMBER:	FH08200
MANUFACTURER:	KUSTOM	MODEL NUMBER:	FALCON HR
DEPARTMENT:		PATROL CAR #:	
ENVIRONMENT:	69.7 °F/35.7 %RH	BASIC ACCURACY:	REFERENCE MFR SPECIFICATIONS
CAL INTERVAL:	12 MONTHS	DUE DATE:	January 20, 2016

EQUIPMENT CONDITION AS RECEIVED

Initial testing found this equipment to be "IN TOLERANCE", as defined by the basic accuracy stated above.

EQUIPMENT CONDITION AS DELIVERED

At the completion of the calibration, measured values were "IN TOLERANCE", as defined by the basic accuracy stated above.

TUNNING FORK(S) SUPPLIED WITH THIS DEVICE

DESCRIPTION	SERIAL NUMBER	RATED SPEED	FREQUENCY
TUNNING FORK ONE	59428	35 M.P.H.	2546 Hz
TUNNING FORK TWO	54943	65 M.P.H.	4740 Hz

Antenna 1 SN: HANDHELD, Frequency: 24.119 GHz

STANDARD(S) USED FOR CERTIFICATION

I.D.	MODEL	MANUFACTURER	DESCRIPTION	DUE DATE
MET1337	2-56 UNC-3A	GSG	THREAD PLUG GAGE SET, GO & NO GO MEMBERS	02/10/2015
MET1388	VOCAR HR WAND	DB INNOVATIONS	VOCAR HR WAND	01/13/2016

PROCEDURE(S) USED FOR CERTIFICATION

DOCUMENT ID	DESCRIPTION	REV	REV DATE
SMD101	DOPPLER RADAR / LIDAR CALIBRATION PROCEDURE	NEW	

CERTIFICATION NOTES

I certify (or declare) under penalty of perjury under the laws of the State of Washington that the above information is true and correct

PERFORMED BY Charlie M. Brown
 CALIBRATION TECHNICIAN: CHARLIE BROWN

LOCATION: BLACK DIAMOND, WA
 CALIBRATION DATE: Tuesday, January 20, 2015

12026 115th Ave NE, Suite 102, Kirkland, WA 98034
 T.425.895.8617, F.425.702.9358

ON-SITE CERTIFICATE #: OS2-00026365

CERTIFICATE OF CALIBRATION

STANDARD CALIBRATION

BLACK DIAMOND POLICE DEPARTMENT

25510 LAWSON STREET BLACK DIAMOND, WA 98010

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DESCRIPTION:		SPEED MEASURING DEVICE	
ASSET #:	FF18686	SERIAL NUMBER:	FF18686
MANUFACTURER:	KUSTOM	MODEL NUMBER:	FALCON
DEPARTMENT:	MARINE UNIT	PATROL CAR #:	
ENVIRONMENT:	69.7 °F/35.7 %RH	BASIC ACCURACY:	REFERENCE MFR SPECIFICATIONS
CAL INTERVAL:	12 MONTHS	DUE DATE:	January 20, 2016

EQUIPMENT CONDITION AS RECEIVED

Initial testing found this equipment to be "IN TOLERANCE", as defined by the basic accuracy stated above.

EQUIPMENT CONDITION AS DELIVERED

At the completion of the calibration, measured values were "IN TOLERANCE", as defined by the basic accuracy stated above.

TUNNING FORK(S) SUPPLIED WITH THIS DEVICE

DESCRIPTION	SERIAL NUMBER	RATED SPEED	FREQUENCY
TUNNING FORK ONE	16451	50 M.P.H.	3658 Hz
TUNNING FORK TWO			

Antenna 1 SN: HANDHELD, Frequency: 24.171 GHz

STANDARD(S) USED FOR CERTIFICATION

I.D.	MODEL	MANUFACTURER	DESCRIPTION	DUE DATE
MET1337	2-56 UNC-3A	GSG	THREAD PLUG GAGE SET, GO & NO GO MEMBERS	02/10/2015
MET1388	VOCAR HR WAND	DB INNOVATIONS	VOCAR HR WAND	01/13/2016

PROCEDURE(S) USED FOR CERTIFICATION

DOCUMENT ID	DESCRIPTION	REV	REV DATE
SMD101	DOPPLER RADAR / LIDAR CALIBRATION PROCEDURE	NEW	

CERTIFICATION NOTES

I certify (or declare) under penalty of perjury under the laws of the State of Washington that the above information is true and correct

PERFORMED BY Charlie M. Brown
 CALIBRATION TECHNICIAN: CHARLIE BROWN

LOCATION: BLACK DIAMOND, WA
 CALIBRATION DATE: Tuesday, January 20, 2015



12026 115th Ave NE, Suite 102, Kirkland, WA 98034

T.425.895.8617, F.425.702.9358

ON-SITE CERTIFICATE #: OS2-00026364

CERTIFICATE OF CALIBRATION

STANDARD CALIBRATION

BLACK DIAMOND POLICE DEPARTMENT

25510 LAWSON STREET BLACK DIAMOND, WA 98010

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DESCRIPTION:		SPEED MEASURING DEVICE	
ASSET #:	AA-8476	SERIAL NUMBER:	AA-8476
MANUFACTURER:	KUSTOM	MODEL NUMBER:	HR-12
DEPARTMENT:		PATROL CAR #:	
ENVIRONMENT:	69.7 °F/35.7 %RH	BASIC ACCURACY:	REFERENCE MFR SPECIFICATIONS
CAL INTERVAL:	12 MONTHS	DUE DATE:	January 20, 2016

EQUIPMENT CONDITION AS RECEIVED

Initial testing found this equipment to be "IN TOLERANCE", as defined by the basic accuracy stated above.

EQUIPMENT CONDITION AS DELIVERED

At the completion of the calibration, measured values were "IN TOLERANCE", as defined by the basic accuracy stated above.

TUNNING FORK(S) SUPPLIED WITH THIS DEVICE

DESCRIPTION	SERIAL NUMBER	RATED SPEED	FREQUENCY
TUNNING FORK ONE	966933	35 M.P.H.	2526 Hz
TUNNING FORK TWO	966968	65 M.P.H.	4688 Hz

Antenna 1 SN: HANDHELD, Frequency: 24.168 GHz

STANDARD(S) USED FOR CERTIFICATION

I.D.	MODEL	MANUFACTURER	DESCRIPTION	DUE DATE
MET1337	2-56 UNC-3A	GSG	THREAD PLUG GAGE SET, GO & NO GO MEMBERS	02/10/2015
MET1388	VOCAR HR WAND	DB INNOVATIONS	VOCAR HR WAND	01/13/2016

PROCEDURE(S) USED FOR CERTIFICATION

DOCUMENT ID	DESCRIPTION	REV	REV DATE
SMD101	DOPPLER RADAR / LIDAR CALIBRATION PROCEDURE	NEW	

CERTIFICATION NOTES

I certify (or declare) under penalty of perjury under the laws of the State of Washington that the above information is true and correct

PERFORMED BY Charlie M. Brown
 CALIBRATION TECHNICIAN: CHARLIE BROWN

LOCATION: BLACK DIAMOND, WA
 CALIBRATION DATE: Tuesday, January 20, 2015



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T.425.895.8617, F.425.702.9358

ON-SITE CERTIFICATE #: OS2-00026363

CERTIFICATE OF CALIBRATION

STANDARD CALIBRATION

BLACK DIAMOND POLICE DEPARTMENT
25510 LAWSON STREET BLACK DIAMOND, WA 98010

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DESCRIPTION:		SPEED MEASURING DEVICE	
ASSET #:	FF6630	SERIAL NUMBER:	FF6630
MANUFACTURER:	KUSTOM	MODEL NUMBER:	FALCON
DEPARTMENT:		PATROL CAR #:	
ENVIRONMENT:	69.7 °F/35.7 %RH	BASIC ACCURACY:	REFERENCE MFR SPECIFICATIONS
CAL INTERVAL:	12 MONTHS	DUE DATE:	January 20, 2016

EQUIPMENT CONDITION AS RECEIVED

Initial testing found this equipment to be "IN TOLERANCE", as defined by the basic accuracy stated above.

EQUIPMENT CONDITION AS DELIVERED

At the completion of the calibration, measured values were "IN TOLERANCE", as defined by the basic accuracy stated above.

TUNNING FORK(S) SUPPLIED WITH THIS DEVICE

DESCRIPTION	SERIAL NUMBER	RATED SPEED	FREQUENCY
TUNNING FORK ONE	16540	50 M.P.H.	3658 Hz
TUNNING FORK TWO			

Antenna 1 SN: HANDHELD, Frequency: 24.173 GHz

STANDARD(S) USED FOR CERTIFICATION

I.D.	MODEL	MANUFACTURER	DESCRIPTION	DUE DATE
MET1337	2-56 UNC-3A	GSG	THREAD PLUG GAGE SET, GO & NO GO MEMBERS	02/10/2015
MET1388	VOCAR HR WAND	DB INNOVATIONS	VOCAR HR WAND	01/13/2016

PROCEDURE(S) USED FOR CERTIFICATION

DOCUMENT ID	DESCRIPTION	REV	REV DATE
SMD101	DOPPLER RADAR / LIDAR CALIBRATION PROCEDURE	NEW	

CERTIFICATION NOTES

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PERFORMED BY Charlie M. Brown
CALIBRATION TECHNICIAN: CHARLIE BROWN

LOCATION: BLACK DIAMOND, WA
CALIBRATION DATE: Tuesday, January 20, 2015



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ON-SITE CERTIFICATE #: OS2-00026362

CERTIFICATE OF CALIBRATION

STANDARD CALIBRATION

BLACK DIAMOND POLICE DEPARTMENT

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DESCRIPTION:		SPEED MEASURING DEVICE	
ASSET #:	RP05744	SERIAL NUMBER:	RP05744
MANUFACTURER:	KUSTOM	MODEL NUMBER:	RP-1
DEPARTMENT:		PATROL CAR #:	
ENVIRONMENT:	69.7 °F/35.7 %RH	BASIC ACCURACY:	REFERENCE MFR SPECIFICATIONS
CAL INTERVAL:	12 MONTHS	DUE DATE:	January 20, 2016

EQUIPMENT CONDITION AS RECEIVED

Initial testing found this equipment to be "IN TOLERANCE", as defined by the basic accuracy stated above.

EQUIPMENT CONDITION AS DELIVERED

At the completion of the calibration, measured values were "IN TOLERANCE", as defined by the basic accuracy stated above.

TUNNING FORK(S) SUPPLIED WITH THIS DEVICE

DESCRIPTION	SERIAL NUMBER	RATED SPEED	FREQUENCY
TUNNING FORK ONE	52909	35 M.P.H.	2530 Hz
TUNNING FORK TWO	48682	65 M.P.H.	4724 Hz

Antenna 1 SN: RK09229, Frequency: 24.123 GHz

Antenna 2 SN: RK12626, Frequency: 24.113 GHz

STANDARD(S) USED FOR CERTIFICATION

I.D.	MODEL	MANUFACTURER	DESCRIPTION	DUE DATE
MET1337	2-56 UNC-3A	GSG	THREAD PLUG GAGE SET, GO & NO GO MEMBERS	02/10/2015
MET1388	VOCAR HR WAND	DB INNOVATIONS	VOCAR HR WAND	01/13/2016

PROCEDURE(S) USED FOR CERTIFICATION

DOCUMENT ID	DESCRIPTION	REV	REV DATE
SMD101	DOPPLER RADAR / LIDAR CALIBRATION PROCEDURE	NEW	

CERTIFICATION NOTES

I certify (or declare) under penalty of perjury under the laws of the State of Washington that the above information is true and correct

PERFORMED BY Charlie M. Brown
 CALIBRATION TECHNICIAN: CHARLIE BROWN

LOCATION: BLACK DIAMOND, WA
 CALIBRATION DATE: Tuesday, January 20, 2015



12026 115th Ave NE, Suite 102, Kirkland, WA 98034

T.425.895.8617, F.425.702.9358

ON-SITE CERTIFICATE #: OS2-00026360

CERTIFICATE OF CALIBRATION

STANDARD CALIBRATION

BLACK DIAMOND POLICE DEPARTMENT

25510 LAWSON STREET BLACK DIAMOND, WA 98010

This certifies that the instrument listed herein was calibrated by Cascade Engineering Services' Calibration Laboratory, which is fully accredited in accordance with the recognized International Standards ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories. Cascade Engineering Services' Calibration Laboratory also meets the requirements of ANSI/NCSL Z540-1-1994 and any additional program requirements in the field of calibration. Standards used to perform this calibration are certified by or traceable to NIST, natural physical constants, consensus standards or derived by the ratio type of calibrations. All calibrations are performed to manufacturer's specifications unless otherwise noted. Standard Calibration, while still traceable, does not meet all requirements for an Accredited Calibration per ISO/IEC 17025:2005, that is As Found data for equipment in tolerance and Measurement Uncertainties are not recorded. This certificate shall not be reproduced, except in full, without prior written approval of the laboratory.

DESCRIPTION:

SPEED MEASURING DEVICE

ASSET #:	XE04292	SERIAL NUMBER:	XE04292
MANUFACTURER:	KUSTOM	MODEL NUMBER:	GOLDEN EAGLE II
DEPARTMENT:		PATROL CAR #:	
ENVIRONMENT:	69.7 °F/35.7 %RH	BASIC ACCURACY:	REFERENCE MFR SPECIFICATIONS
CAL INTERVAL:	12 MONTHS	DUE DATE:	January 20, 2016

EQUIPMENT CONDITION AS RECEIVED

Initial testing found this equipment to be "IN TOLERANCE", as defined by the basic accuracy stated above.

EQUIPMENT CONDITION AS DELIVERED

At the completion of the calibration, measured values were "IN TOLERANCE", as defined by the basic accuracy stated above.

TUNNING FORK(S) SUPPLIED WITH THIS DEVICE

DESCRIPTION	SERIAL NUMBER	RATED SPEED	FREQUENCY
TUNNING FORK ONE	28763	30 M.P.H.	3200 Hz
TUNNING FORK TWO	30483	55 M.P.H.	5894 Hz

Antenna 1 SN: DE10097, Frequency: 35.479 GHz

Antenna 2 SN: DE10098, Frequency: 35.522 GHz

STANDARD(S) USED FOR CERTIFICATION

I.D.	MODEL	MANUFACTURER	DESCRIPTION	DUE DATE
MET1337	2-56 UNC-3A	GSG	THREAD PLUG GAGE SET, GO & NO GO MEMBERS	02/10/2015
MET1388	VOCAR HR WAND	DB INNOVATIONS	VOCAR HR WAND	01/13/2016

PROCEDURE(S) USED FOR CERTIFICATION

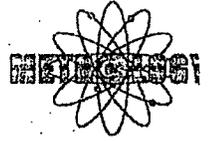
DOCUMENT ID	DESCRIPTION	REV	REV DATE
SMD101	DOPPLER RADAR / LIDAR CALIBRATION PROCEDURE	NEW	

CERTIFICATION NOTES

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PERFORMED BY Charlie M. Brown
 CALIBRATION TECHNICIAN: CHARLIE BROWN

LOCATION: BLACK DIAMOND, WA
 CALIBRATION DATE: Tuesday, January 20, 2015



Cascade Engineering Services, Inc.

12026 115th Ave NE, Suite 102, Kirkland, WA 98034
T.425.895.8617, F.425.702.9358

ON-SITE CERTIFICATE #: 0012585

CERTIFICATE OF CALIBRATION

STANDARD CALIBRATION

BLACK DIAMOND POLICE DEPARTMENT

25510 LAWSON STREET BLACK DIAMOND, WA 98010

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DESCRIPTION: SPEED MEASURING DEVICE	
ASSET #:	XE04293
MANUFACTURER:	KUSTOM
DEPARTMENT:	
ENVIRONMENT:	69.7 °F/35.7 %RH
CAL INTERVAL:	12 MONTHS
SERIAL NUMBER:	XE04293
MODEL NUMBER:	GOLDEN EAGLE II
PATROL CAR #:	
BASIC ACCURACY:	REFERENCE MFR SPECIFICATIONS
DUE DATE:	January 20, 2016

EQUIPMENT CONDITION AS RECEIVED

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EQUIPMENT CONDITION AS DELIVERED

At the completion of the calibration, measured values were "IN TOLERANCE", as defined by the basic accuracy stated above.

TUNNING FORK(S) SUPPLIED WITH THIS DEVICE

DESCRIPTION	SERIAL NUMBER	RATED SPEED	FREQUENCY
TUNNING FORK ONE	42187	30 M.P.H.	3214 F
TUNNING FORK TWO	44196	55 M.P.H.	5904 F

Antenna 1 SN: DE10086, Frequency: 35.515 GHz

Antenna 2 SN: DE10080, Frequency: 35.563 GHz

STANDARD(S) USED FOR CERTIFICATION

I.D.	MODEL	MANUFACTURER	DESCRIPTION	DUE DATE
MET1337	2-56 UNC-3A	GSG	THREAD PLUG GAGE SET, GO & NO GO MEMBERS	02/10/2015
MET1388	VOCAR HR WAND	DB INNOVATIONS	VOCAR HR WAND	01/13/2016

PROCEDURE(S) USED FOR CERTIFICATION

DOCUMENT ID	DESCRIPTION	REV	REV DATE
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CALIBRATION TECHNICIAN CHARLIE BROWN

LOCATION: BLACK DIAMOND, WA
CALIBRATION DATE: Tuesday, January 20, 2015