

Return Material Authorization

Ship to: CMI, Inc.
 Enforcement Electronics

Shipment to repair facility authorized by: Gordon Franz on 04/10/2018

Items Returned: Instrument Supplies Other Describe: _____

Instrument Model: Intoxilyzer 8000 Serial Number: 80-001865

Bill To Address:
Lakeland Police Department
219 North Massachusetts Avenue
Lakeland, FL 33801-4972

Ship to Address:
FDLE Off-Site Mail Facility
c/o Florida Department of Law Enforcement
Alcohol Testing Program - Attn: Danielle Bell
813-B Lake Bradford Road
Tallahassee, FL 32304

Reason for Return:

See attached Optical Bench Calibration Adjustments. DVMs are jumping and will not remain low or stable. Please inspect, repair, and calibrate.

Please choose one of the following options:

- 1. I _____, authorize all repairs.
- 2. I _____, authorize repairs up to \$ _____.
- 3. I require an estimate **BEFORE** any repairs will be authorized and/ or conducted.

Please contact: Name: Gordon Franz

Phone #: (813) 834-2560 Email: Gordon.Franz@lakelandgov.net

ATP Contact Name: Danielle Bell ATP Email: DanielleBell@fdle.state.fl.us

4/11/18
JD



INSTRUMENT PROCESSING SHEET

Agency Lakeland Police DepartmentS/N 80-001865Florida Department of
Law EnforcementDate In 03/22/2018 DI Completion Date _____ Ship P/U H/D CMI EE

Intake Performed By <u>DMB</u> <input checked="" type="checkbox"/> Annual <input type="checkbox"/> Registration <input type="checkbox"/> Return from CMI / EE Visual Inspection: <input checked="" type="checkbox"/> Case <input checked="" type="checkbox"/> Handle <input checked="" type="checkbox"/> Keyboard <input checked="" type="checkbox"/> Dry Gas Shelf <input checked="" type="checkbox"/> Feet <input checked="" type="checkbox"/> Breath Tube <input checked="" type="checkbox"/> Ports <input checked="" type="checkbox"/> Screws Tight Other Equipment/ Accessories: <input type="checkbox"/> Power cord <input type="checkbox"/> Printer Cable <input type="checkbox"/> Static Bag <input type="checkbox"/> 12V DC Cable Notes: _____ _____ _____	Quality Checks Performed By <u>DMB</u> <input checked="" type="checkbox"/> Breath Tube Screen <input checked="" type="checkbox"/> Replace External O-Rings <input checked="" type="checkbox"/> Instrument Set Up Verified <input checked="" type="checkbox"/> R-Value <u>222</u> <input checked="" type="checkbox"/> Flow Verification (L/s) Flow Column # <u>ATP 103</u> 32 mm <u>0.152</u> (.139 - .169) 36 mm <u>0.171</u> (.156 - .190) 53 mm <u>0.238</u> (.228 - .278) 103 mm <u>0.496</u> (.447 - .547) <input checked="" type="checkbox"/> Barometric Pressure Check Gauge ID # <u>28662</u> <input checked="" type="checkbox"/> Stability Checks <table border="1" style="width:100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th>Simulator</th> <th>Serial #</th> <th>Lot #/Exp</th> </tr> </thead> <tbody> <tr> <td>0.050</td> <td>G11739</td> <td>201707D 07/25/2019</td> </tr> <tr> <td>0.080</td> <td>SD3964</td> <td>201707E 07/25/2019</td> </tr> <tr> <td>0.200</td> <td>DR3856</td> <td>201707C 07/24/2019</td> </tr> <tr> <td>0.080 DGS</td> <td>N/A</td> <td>AG805702 02/26/2020</td> </tr> </tbody> </table>	Simulator	Serial #	Lot #/Exp	0.050	G11739	201707D 07/25/2019	0.080	SD3964	201707E 07/25/2019	0.200	DR3856	201707C 07/24/2019	0.080 DGS	N/A	AG805702 02/26/2020	Flow Calibration Performed By _____ Flow Column # _____ <input type="checkbox"/> 5L/min - 17mm <input type="checkbox"/> 15L/min - 53mm <input type="checkbox"/> 30L/min - 103mm <input type="checkbox"/> R-Value _____ <input type="checkbox"/> Post Calibration Verification (L/s) Flow Column # _____ 32 mm _____ (.139 - .169) 36 mm _____ (.156 - .190) 53 mm _____ (.228 - .278) 103 mm _____ (.447 - .547)																																												
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Calibration Adjustment Performed By <u>DMB</u> Barometric Pressure Gauge <u>1017 x 3</u> ID # <u>28427 x 3</u> <table border="1" style="width:100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th>Simulator</th> <th>Serial Number</th> <th>Lot Number</th> <th>Expiration</th> </tr> </thead> <tbody> <tr> <td>0.000</td> <td>G8144</td> <td>N/A</td> <td>N/A</td> </tr> <tr> <td>0.040</td> <td>G2403</td> <td>16320</td> <td>10/21/2018</td> </tr> <tr> <td>0.100</td> <td>G2879</td> <td>17280</td> <td>09/11/2019</td> </tr> <tr> <td>0.200</td> <td>G3709</td> <td>17090</td> <td>02/24/2019</td> </tr> <tr> <td>0.300</td> <td>G8149</td> <td>17140</td> <td>05/15/2019</td> </tr> <tr> <td>0.080 DGS</td> <td>N/A</td> <td>22817080A5</td> <td>10/05/2019</td> </tr> </tbody> </table> <input type="checkbox"/> Post Calibration Adjustment Stability Checks <table border="1" style="width:100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th>Simulator</th> <th>Serial Number</th> <th>Lot Number</th> <th>Expiration</th> </tr> </thead> <tbody> <tr> <td>0.050</td> <td></td> <td></td> <td></td> </tr> <tr> <td>0.080</td> <td></td> <td></td> <td></td> </tr> <tr> <td>0.200</td> <td></td> <td></td> <td></td> </tr> <tr> <td>0.080 DGS</td> <td>N/A</td> <td></td> <td></td> </tr> </tbody> </table>	Simulator	Serial Number	Lot Number	Expiration	0.000	G8144	N/A	N/A	0.040	G2403	16320	10/21/2018	0.100	G2879	17280	09/11/2019	0.200	G3709	17090	02/24/2019	0.300	G8149	17140	05/15/2019	0.080 DGS	N/A	22817080A5	10/05/2019	Simulator	Serial Number	Lot Number	Expiration	0.050				0.080				0.200				0.080 DGS	N/A			Department Inspection Performed By _____ Barometric Pressure ID# _____ Gauge _____ Instrument _____ Mouth Alcohol Solution Lot # _____ Acetone Stock Solution Lot # _____ <table border="1" style="width:100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th>Simulator</th> <th>Serial Number</th> </tr> </thead> <tbody> <tr> <td>0.000</td> <td></td> </tr> <tr> <td>Interferent</td> <td></td> </tr> <tr> <td>0.050</td> <td></td> </tr> <tr> <td>0.080</td> <td></td> </tr> <tr> <td>0.200</td> <td></td> </tr> </tbody> </table>	Simulator	Serial Number	0.000		Interferent		0.050		0.080		0.200	
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Notes/Suggested Service: <u>Performed 3 optical bench calibration adjustments to bring values closer to nominal. All adjustments were completed using the same simulators and solution. DVMs bouncing and indicate issue with source. DMB 04/10/18</u> _____ _____	Attachments <input type="checkbox"/> Form 41 <input type="checkbox"/> Post-Stability Checks <input checked="" type="checkbox"/> Stability Checks <input type="checkbox"/> Flow Calibration <input type="checkbox"/> Calibration Certificate <input type="checkbox"/> Form 40 <input checked="" type="checkbox"/> Calibration Adjustment x 3 <input type="checkbox"/> Other _____																																																												
<input type="checkbox"/> Instrument Complies with Chapter 11D-8, FAC <input checked="" type="checkbox"/> Instrument Does Not Comply with Chapter 11D-8, FAC <input type="checkbox"/> Return to/Place into Evidentiary Use <input checked="" type="checkbox"/> Remain Out of Evidentiary Use <input type="checkbox"/> Conduct an Agency Inspection Before Evidentiary Use		<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; text-align: center;"> <u>4/10/18</u> Tech Review / Date </td> <td style="width:50%; text-align: center;"> <u>4/11/18</u> Admin Review / Date </td> </tr> </table>	<u>4/10/18</u> Tech Review / Date	<u>4/11/18</u> Admin Review / Date																																																									
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Stability Checks # 80-001865 Lakeland Police Dept. 4/13/18 *DBS*

DBS

LAKELAND PD
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001865
04/03/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	11:03
Control Test	0.049	11:03
Air Blank	0.000	11:04
Control Test	0.050	11:04
Air Blank	0.000	11:05
Control Test	0.049	11:06
Air Blank	0.000	11:06
Control Test Stats		
Average	0.0493	
Std Dev	0.0006	
Rel Std Dev(%)	1.1703	

DBS
Operator's Signature

LAKELAND PD
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001865
04/03/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	11:08
Control Test	0.081	11:08
Air Blank	0.000	11:09
Control Test	0.081	11:09
Air Blank	0.000	11:10
Control Test	0.081	11:11
Air Blank	0.000	11:11
Control Test Stats		
Average	0.0810	
Std Dev	0.0000	
Rel Std Dev(%)	0.0000	

DBS
Operator's Signature

LAKELAND PD
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001865
04/03/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	11:12
Control Test	0.199	11:13
Air Blank	0.000	11:14
Control Test	0.197	11:14
Air Blank	0.000	11:15
Control Test	0.197	11:15
Air Blank	0.000	11:16
Control Test Stats		
Average	0.1977	
Std Dev	0.0012	
Rel Std Dev(%)	0.5842	

DBS
Operator's Signature

LAKELAND PD
Intoxilyzer - Alcohol Analyzer
Model 8000 SN 80-001865
04/03/2018
Software: 8100.27

Test	g/210L	Time
Air Blank	0.000	11:18
Control Test	0.077	11:18
Air Blank	0.000	11:19
Control Test	0.078	11:19
Air Blank	0.000	11:20
Control Test	0.078	11:20
Air Blank	0.000	11:21
Control Test Stats		
Average	0.0777	
Std Dev	0.0006	
Rel Std Dev(%)	0.7434	

DBS
Operator's Signature

4/13/18
DBS

Optical Bench Calibration Adjustment Data # 80-001865 Lakeland P.D. 4/10/18 RAB

LAKELAND.PD
 Intoxilyzer - Alconco Analyzer
 Model 8000 SN 80-001865
 04/10/2018 13:43:59

Auto Calibration
 Max Power Res Value = 68
 Auto Range Res Value = 77

SoI Value = 0.000 g/210L ***
 Fit Value = 0.000 mg/l %%%
 Samples Taken = 4, Discarded = 1
 Sum Io = 12489, Sum Io = 13227

<<<<< CHANNEL 1 >>>>>
 Sample % Abs (% Abs Ref)
 Sample #1 = 0.2630 (-0.1620)
 Sample #2 = 0.0550 (-0.2010)
 Sample #3 = 0.3950 (-0.3470)
 Sample #4 = -0.0330 (0.1710)
 Avg % Abs = 0.1390 (-0.1257)
 STD DEV = 0.2260 (0.2671)
 REL STD DEV = 162.609 (212.559)

<<<<< CHANNEL 2 >>>>>
 Sample % Abs (% Abs Ref)
 Sample #1 = 0.2310 (-0.0910)
 Sample #2 = 0.1170 (-0.0830)
 Sample #3 = 0.3040 (-0.1840)
 Sample #4 = 0.0520 (0.1160)
 Avg % Abs = 0.1577 (-0.0503)
 STD DEV = 0.1308 (0.1526)
 REL STD DEV = 82.978 (303.267)

SoI Value = 0.040 g/210L ***
 Fit Value = 0.1905 mg/l %%%
 Samples Taken = 4, Discarded = 1
 Sum Io = 12494, Sum Io = 13227

<<<<< CHANNEL 1 >>>>>
 Sample % Abs (% Abs Ref)
 Sample #1 = 1.7680 (0.0740)
 Sample #2 = 0.8040 (1.9410)
 Sample #3 = 0.7810 (1.8600)
 Sample #4 = 0.8750 (1.8640)
 Avg % Abs = 0.8200 (1.8883)
 STD DEV = 0.0490 (0.0457)
 REL STD DEV = 5.976 (2.418)

<<<<< CHANNEL 2 >>>>>
 Sample % Abs (% Abs Ref)
 Sample #1 = 2.0200 (0.0000)
 Sample #2 = 1.5120 (0.9390)
 Sample #3 = 1.5250 (0.8960)
 Sample #4 = 1.3880 (0.8790)
 Avg % Abs = 1.5417 (0.9047)
 STD DEV = 0.0406 (0.0309)
 REL STD DEV = 2.637 (3.418)

SoI Value = 0.040 g/210L ***
 Fit Value = 0.1905 mg/l %%%
 Samples Taken = 4, Discarded = 1
 Sum Io = 12221, Sum Io = 13085

<<<<< CHANNEL 1 >>>>>
 Sample % Abs (% Abs Ref)
 Sample #1 = 0.5260 (0.0520)
 Sample #2 = -1.0950 (-0.8190)
 Sample #3 = 0.9730 (-2.7130)
 Sample #4 = 1.2070 (-2.7610)
 Avg % Abs = 0.3617 (-2.0977)
 STD DEV = 1.2669 (1.1076)
 REL STD DEV = 350.302 (52.802)

<<<<< CHANNEL 2 >>>>>
 Sample % Abs (% Abs Ref)
 Sample #1 = 1.3660 (0.0500)
 Sample #2 = 0.5960 (-0.3630)
 Sample #3 = 1.6050 (-1.2930)
 Sample #4 = 1.7740 (-1.3340)
 Avg % Abs = 1.3250 (-1.0033)
 STD DEV = 0.6370 (0.5376)
 REL STD DEV = 48.073 (53.583)

SoI Value = 0.040 g/210L ***
 Fit Value = 0.1905 mg/l %%%
 Samples Taken = 4, Discarded = 1
 Sum Io = 12565, Sum Io = 13270

<<<<< CHANNEL 1 >>>>>
 Sample % Abs (% Abs Ref)
 Sample #1 = 1.2870 (0.1820)
 Sample #2 = 0.9120 (0.5860)
 Sample #3 = 0.6050 (1.1160)
 Sample #4 = 0.7200 (0.8840)
 Avg % Abs = 0.7457 (0.8620)
 STD DEV = 0.1551 (0.2657)
 REL STD DEV = 20.800 (30.822)

<<<<< CHANNEL 2 >>>>>
 Sample % Abs (% Abs Ref)
 Sample #1 = 1.7620 (0.0840)
 Sample #2 = 1.5660 (0.2920)
 Sample #3 = 1.4150 (0.5540)
 Sample #4 = 1.5090 (0.4090)
 Avg % Abs = 1.4967 (0.4183)
 STD DEV = 0.0763 (0.1312)
 REL STD DEV = 5.095 (31.374)

**** AUTO CAL FAIL

4/11/18
 RAB

Optical Bench Calibration Adjustment #2 Data #80-001865 Lakeland P.D. 4/10/18 ~~DB~~

LAKELAND PD
 Intoxilizer - Alconol Analyzer
 Model 8000
 04/10/2018
 SN 80-001865
 14:12:57

Auto Calibration
 Max Power Res Value = 66
 Auto Range Res Value = 70

Sol Value = 0.000 g/210L ***
 Fit value = 0.0000 mg/l. %%%
 Samples Taken = 4, Discarded = 1
 Sum Io = 12220, Sum Io = 13079
 <<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1	0.1080	(-0.1730)
Sample #2	0.2340	(-0.3150)
Sample #3	0.3660	(-0.5920)
Sample #4	-0.0860	(1.2610)

Avg % Abs = 0.1713 (0.1180)
 STD DEV = 0.2324 (0.9995)
 REL STD DEV = 135.657 (847.042)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1	0.1330	(-0.0720)
Sample #2	0.2290	(-0.1640)
Sample #3	0.2760	(-0.3060)
Sample #4	0.0320	(0.6220)

Avg % Abs = 0.1790 (0.0507)
 STD DEV = 0.1295 (0.4999)
 REL STD DEV = 72.322 (986.561)

Sol Value = 0.040 g/210L ***
 Fit value = 0.1905 mg/l. %%%
 Samples Taken = 4, Discarded = 1
 Sum Io = 12051, Sum Io = 12991
 <<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1	0.8900	(0.1160)
Sample #2	0.8150	(0.2770)
Sample #3	0.8180	(0.2440)
Sample #4	0.8280	(0.3690)

Avg % Abs = 0.8203 (0.2967)
 STD DEV = 0.0068 (0.0648)
 REL STD DEV = 0.830 (21.836)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1	1.4930	(0.0870)
Sample #2	1.5330	(0.1540)
Sample #3	1.5380	(0.1400)
Sample #4	1.5280	(0.2290)

Avg % Abs = 1.5330 (0.1743)
 STD DEV = 0.0050 (0.0479)
 REL STD DEV = 0.326 (27.452)

Sol Value = 0.100 g/210L ***
 Fit value = 0.4762 mg/l. %%%
 Samples Taken = 4, Discarded = 1
 Sum Io = 12004, Sum Io = 12862
 <<<<< CHANNEL 1 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1	2.1280	(0.0710)
Sample #2	2.0910	(-0.0010)
Sample #3	1.9840	(0.4370)
Sample #4	3.7290	(-1.2890)

Avg % Abs = 2.6013 (-0.2843)
 STD DEV = 0.9781 (0.8972)
 REL STD DEV = 37.598 (315.547)

<<<<< CHANNEL 2 >>>>>

Sample	% Abs	(% Abs Ref)
Sample #1	3.5710	(0.0410)
Sample #2	3.6750	(-0.0040)
Sample #3	3.5820	(0.2100)
Sample #4	4.4760	(-0.6710)

Avg % Abs = 3.9110 (-0.1550)
 STD DEV = 0.4915 (0.4595)
 REL STD DEV = 12.567 (296.452)

**** AUTO CAL FAIL

4/10/18




Optical Benen Calibration Adjustment #3 Data #80-001865 Lakeland P.D. 4/10/18 RMB

Sol Value = 0.040 3/210L ***
 Fit Value = 0.1905 mg/l %%%
 Samples Taken = 4, Discarded = 1
 Sum Io = 12472, Sum Io = 13207
 <<<<< CHANNEL 1 >>>>>
 Sample % Abs (% Abs Ref)
 Sample #1 = 0.7220 (-0.1480)
 Sample #2 = 0.8870 (-0.1850)
 Sample #3 = 0.5230 (-0.3070)
 Sample #4 = 0.5560 (-0.0410)
 Avg % Abs = 0.6553 (-0.1777)
 STD DEV = 0.2013 (0.1332)
 REL STD DEV = 30.718 (74.945)

LAKELAND PD
 Intoxilyzer - Alconol Analyzer
 Model 8000 SN 80-001865
 04/10/2018 14:43:30
 Auto Calibration
 Max Power Res Value = 67
 Auto Range Res Value = 73

Sol Value = 0.000 g/210L ***
 Fit Value = 0.0000 mg/l %%%
 Samples Taken = 4, Discarded = 1
 Sum Io = 12544, Sum Io = 13243
 <<<<< CHANNEL 1 >>>>>
 Sample % Abs (% Abs Ref)
 Sample #1 = 0.0380 (0.1900)
 Sample #2 = 0.2640 (0.0700)
 Sample #3 = 0.1420 (0.0140)
 Sample #4 = -0.0790 (-0.0640)
 Avg % Abs = 0.1090 (0.0067)
 STD DEV = 0.1739 (0.0673)
 REL STD DEV = 159.509 (1009.505)

<<<<< CHANNEL 2 >>>>>
 Sample % Abs (% Abs Ref)
 Sample #1 = 1.4670 (-0.0570)
 Sample #2 = 1.5330 (-0.0830)
 Sample #3 = 1.3610 (-0.1580)
 Sample #4 = 1.3880 (-0.0210)
 Avg % Abs = 1.4273 (-0.0873)
 STD DEV = 0.0925 (0.0586)
 REL STD DEV = 6.481 (78.553)

**** AUTO CAL FAIL

<<<<< CHANNEL 2 >>>>>
 Sample % Abs (% Abs Ref)
 Sample #1 = 0.1240 (0.1040)
 Sample #2 = 0.2320 (0.0320)
 Sample #3 = 0.1390 (0.0210)
 Sample #4 = 0.0620 (-0.0620)
 Avg % Abs = 0.1443 (-0.0030)
 STD DEV = 0.0851 (0.0514)
 REL STD DEV = 58.978 (1713.022)

4/11/18
 RMB