

THE  
**adlog**<sup>TM</sup>

**AIRCRAFT  
MAINTENANCE  
RECORDKEEPING  
SYSTEM**

**AVIONICS  
MAINTENANCE  
RECORDS**



# AVIONICS MAINTENANCE RECORDS

(including transponder biennial checks)

Log No. \_\_\_\_\_

Aircraft Registration No. N177AR  
 Aircraft Manufacturer Cessna  
 Model C-177RG  
 Serial No. 0782

## EQUIPMENT LISTING

List all installed avionics, autopilot and flight director equipment.

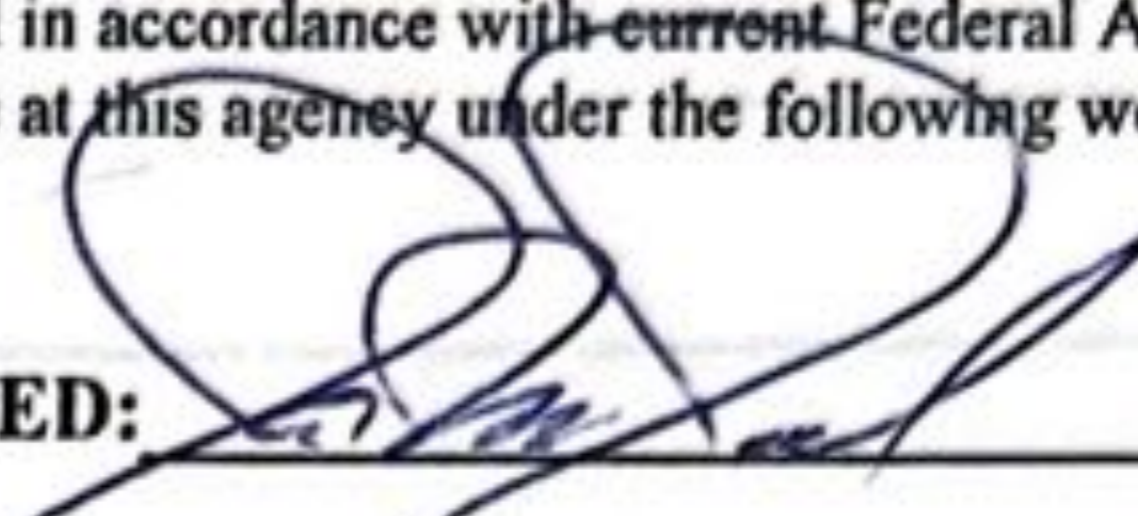
	Mfg.	Model	Serial No.	
1.	NARCO	MK12D	22296	(TOP)
2.	"	"	22338	(BOTTOM)
3.	ARNAV	GPS 5000		
4.	KING	KT76A	25506	
5.	GARMIN	GMA340	96293791	
6.	GARMIN	GNC 255	2A8010808	
7.	Bendix King	K1209	5204	
8.				
9.				
10.				
11.				
12.				
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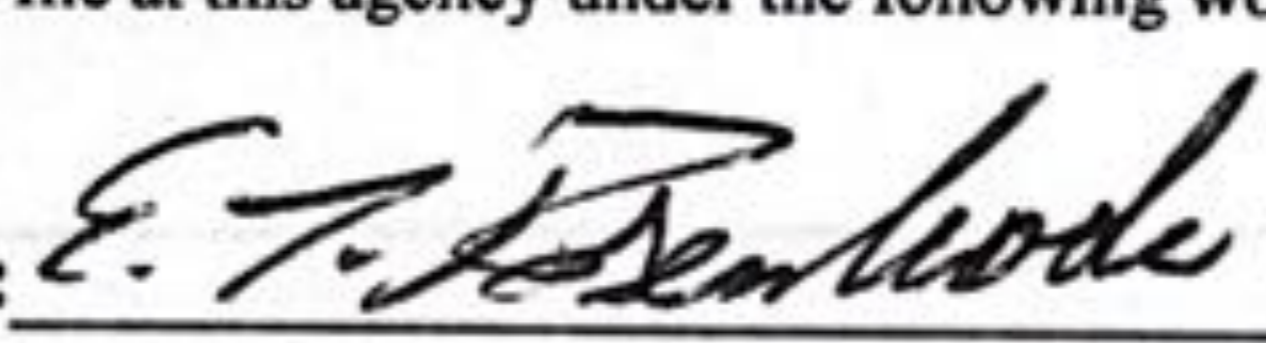


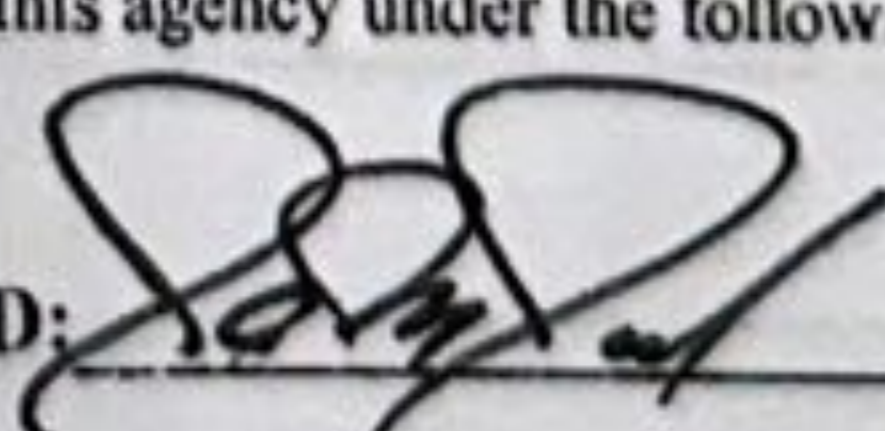
**AEROTECH PUBLICATIONS INC.**


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 (631) 765-9375  
 1-800-235-6444  
 FAX: (631) 765-9359



DATE	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
<b>WISCONSIN AVIATION FOUR LAKES, INC.</b>			
DESCRIPTION OF WORK DONE:			<b><u>N177AR</u></b>
R&R Com 1 coax due to deterioration. Installed RG-142 and 2 BNC connectors from radio to antenna. Repaired several connections behind instrument panel and overhead panel by splicing capping and or replacing terminals.-----END-----			
<small>The aircraft component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details are on file at this agency under the following work number.</small>			
DATE: <u>October 30, 2013</u> Tach: <u>5468.03</u> WO#: <u>12656</u> SIGNED: 			
3606 Corben Ct. - Madison, WI 53704 - CSR No. DBKR124D (608) 268-5006 (608) 268-5038 FAX			

<b>WISCONSIN AVIATION FOUR LAKES, INC.</b>			
DESCRIPTION OF WORK DONE:			<b><u>N177AR</u></b>
Reinstalled repaired GNC-255A p/n: 011-02806-00 s/n: 2A8010808, configured unit and calibrated nav 1 indicator. Reseated Nav/Com 2. Systems ramp check satisfactory. -----END-----			
<small>The aircraft component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details are on file at this agency under the following work number.</small>			
DATE: <u>6/20/14</u> TACH: <u>5540.73</u> WO#: <u>AV14-13175</u> SIGNED: 			
3606 Corben Ct. - Madison, WI 53704 - CRS No. DBKR124D (608) 268-5006 (608) 268-5038 FAX			

<b>WISCONSIN AVIATION FOUR LAKES, INC.</b>			
DESCRIPTION OF WORK DONE:			<b><u>N177AR</u></b>
Aircraft modified per FAA Form 337 dated this date. Details include installation of GTN 750 and GA 35 and GTX 345 and GAE 12...See FAA Form 337 (2) for details. Also removal of avionics. Removed avionics master switch and installed (2) W31M-25 C.B. Switches and wiring. Repaired wiring and inadequate grounding under instrument panel near Flap controller. Secured EI V/A shunt, routed new wiring and terminals. Removed and re-installed repaired EI UBG-16 S/N 43098 after repair at EI International, see repair tag dated 11-3-16. secured defroster diffuser and defroster bracket. Repaired wiring on NAV light switch and adjacent switches by replacing terminals and splicing wire. Completed FAA Form 337, W&B ICA's AFMS. Updated Garmin GTN to SWV 6.21 and WAAS 5.2 per SB 1655 Rev A. Repaired static leak by replacement of static sump and static system button repair. Completed BE Certification, see BE Certificate for details. Ground testing of affected systems completed, ground tested good.			
<small>The aircraft component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details are on file at this agency under the following work number.</small>			
DATE: <u>November 14, 2016</u> Tach: <u>5760.48</u> WO#: <u>15008</u> SIGNED: 			
3606 Corben Ct. - Madison, WI 53704 - CRS No. DBKR124D (608) 268-5006 (608) 268-5038 FAX			

DATE	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK												
<b>ALTIMETER, STATIC, AND TRANSPONDER CERTIFICATE N177AR</b>															
Wisconsin Aviation - Four Lakes Inc. FAA CRS No. DBKR124D			Madison, WI 53704						608-268-5006						
Test Alt. x 1k Ft	-1	0	.5	1	1.5	2	3	4	6	8	10	12	14	16	18
Tol. ± Ft.	20	20	20	20	25	30	30	35	40	60	80	90	100	110	120
Actual ± Ft.	0	0	-10	-10	-20	-10	-10	-10	-30	-50	-60	-60	-60	-60	-40
Test Alt. x 1k Ft	20	22	25	30	35	40	45	50	Case Leak	OK	Hysteresis Tol + 75 Ft.		ALTIMETER MAKE: Garwin MODEL: 22-977-02 S/N: 592		
Tol. ± Ft.	130	140	155	180	205	230	255	260	Tol. 100 Ft	18	50% Max	0			
Actual ± Ft.	-10	X	X	X	X	X	X	X	Temp C	20	40% Max	10			
CERTIFIED STATIC PRESSURE SYSTEM PER FAR 43 APP. E (a) CERTIFIED ALTIMETER PER FAR 43 APP. E. (b) TO (20) THOUSAND FEET. CERTIFIED AUTOMATIC PRESSURE ALTITUDE REPORTING EQUIPMENT PER FAR 43 APP. E (c). COMPLIED WITH RECORDS KEEPING PER FAR 43 APP. E (d). CERTIFIED TRANSPONDER SYSTEM PER FAR 43 APP. F.													BLIND ENCODER MAKE: Garmin MODEL: GAE 12 S/N: 3T6001235		
TRANSPONDER MAKE: Garmin MODEL: GTX 345 S/N: 3EG003353													#2 TRANSPONDER MAKE: X MODEL: X S/N: X		
The aircraft and/or component identified hereon was repaired and inspected in accordance with the current maintenance rules of the Federal Aviation Regulations and is airworthy and approved for return to service.															
Date: November 14, 2016 W.O.: AV16-15008 Tach: 5760.8 Signed: 															

**WISCONSIN AVIATION FOUR LAKES, INC.**

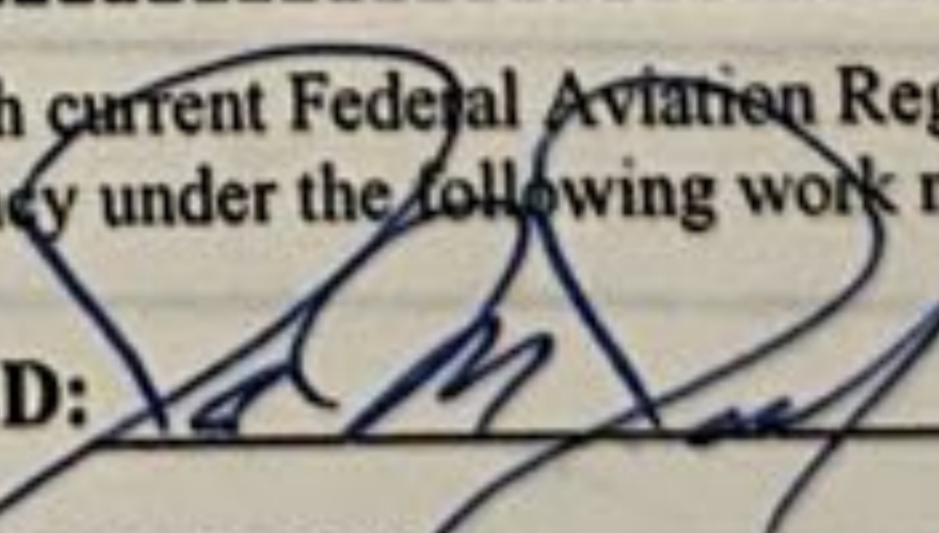
**N177AR**

**DESCRIPTION OF WORK DONE:**

Updated Garmin Flight Stream 510 main software to v2.10 in accordance with Garmin SB 1654 Rev. B. System ramp checked satisfactory.

-----END-----

The aircraft component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details are on file at this agency under the following work number.

DATE: 6/2/2017 Tach: 5795.77 WO#: AV17-15395 SIGNED: 

3606 Corben Ct. - Madison, WI 53704 - CSR No. DBKR124D  
(608) 268-5006 (608) 268-5038 FAX

**WISCONSIN AVIATION FOUR LAKES, INC.**

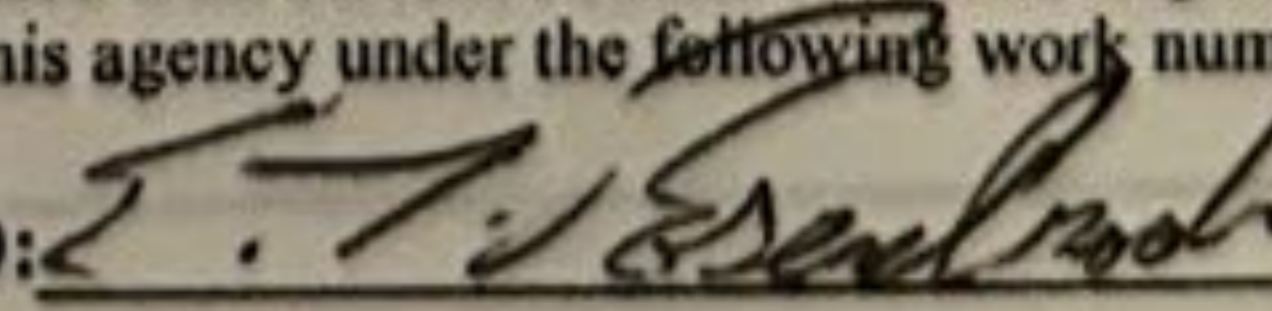
**N177AR**

**DESCRIPTION OF WORK DONE:**

Aligned and adjusted #2 Nav indicator. Performed CDI calibration on #1 Nav/GPS indicator. Removed Edo-Aire Directional Gyro 4000D-1 p/n 1U262-005-20 s/n A2233G and installed serviceable Edo-Aire 4000B p/n 1U262-001-10 s/n A14730E. Systems ramp checked satisfactory.

-----END-----

The aircraft component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details are on file at this agency under the following work number.

DATE: 6/21/2017 Tach: 5807.18 WO#: AV17-15436 SIGNED: 

3606 Corben Ct. - Madison, WI 53704 - CSR No. DBKR124D  
(608) 268-5006 (608) 268-5038 FAX

DATE	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
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### WISCONSIN AVIATION FOUR LAKES, INC.

#### DESCRIPTION OF WORK DONE:

Removed artificial horizon, directional gyro and vacuum system components. Installed new Garmin Dual G5 system in accordance with STC installation manual. See weight and balance for applicable part and serial number changes. Systems interfaced, configured, calibrated, leak and ramp checked satisfactory in accordance with installation manual and Part 43 app E.

**N177AR**

-----END-----

The aircraft component identified above was repaired and inspected in accordance with current Federal Aviation Regulations and was found airworthy for return to service. Pertinent details are on file at this agency under the following work number.

DATE: 8/30/17 TACH: 5864.6 WO#: AV17-15577 SIGNED: [Signature]

3606 Corben Ct. - Madison, WI 53704 - CRS No. DBKR124D  
(608) 268-5006 (608) 268-5038 FAX

<b>On Altitude LLC - Repair Station</b> <b>OQLR736Y</b>		Date	WO#
		10/17/2018	1694
N Number	Make	Model	
N177AR	CESSNA	177AR	
I certify that the <i>Static System checks</i> required by 14CFR FAR 91.411 have been performed this date and found to comply with FAR43 Appendix E, par. a.			
Signed <u>[Signature]</u>			
I certify that the <i>ATC Transponder Tests and Inspections</i> required by 14CFR FAR 91.413 have been performed this date and found to comply with Far 43 Appendix F.			
Signed <u>[Signature]</u>			
Transponder 1	Serial	3 EC 003353	
Transponder 2	Serial		
I certify that the <i>Automatic Pressure Altitude Recording System Checks</i> required by 14CFR FAR91.217 and FAR91.411 have been performed this date and found to comply with FAR Appendix E, par. c.			
Signed <u>[Signature]</u>			
Encoder 1	Serial	[Signature]	
Encoder 2	Serial		
I certify that this aircraft/component has been inspected in accordance with current FAA regulations and is approved for return to service. Details of the repair are on file under this work order.			
Signed <u>[Signature]</u>			

Altitude Test Data per FAR 91.411 NEW FAR 43 Appendix E Part B		On Altitude LLC		Work Order #	1694	Date	10/17/2018
Repair Station		N177AR		Position	BAK44	Tech Name: S921	
Altimeter Model/Type		Garmin G5		Serial: 22-937-02			
Table 1				Table 2			
ALT	TOT	IND	TRK	ALT	IND	TRK	IND
0	20	0	0	0	20	0	0
500	20	0	0	500	20	0	0
1,000	20	0	0	1,000	20	0	0
1,500	25	10	0	1,500	25	10	0
2,000	30	0	0	2,000	30	0	0
3,000	30	0	0	3,000	30	0	0
4,000	35	0	0	4,000	35	0	0
5,000	40	0	0	5,000	40	0	0
6,000	40	0	0	6,000	40	0	0
8,000	50	0	0	8,000	50	0	0
10,000	60	0	0	10,000	60	0	0
12,000	70	0	0	12,000	70	0	0
14,000	80	0	0	14,000	80	0	0
16,000	90	0	0	16,000	90	0	0
20,000	100	0	0	20,000	100	0	0
22,000	110	0	0	22,000	110	0	0
25,000	120	0	0	25,000	120	0	0
30,000	130	0	0	30,000	130	0	0
35,000	140	0	0	35,000	140	0	0
40,000	150	0	0	40,000	150	0	0
45,000	160	0	0	45,000	160	0	0
50,000	170	0	0	50,000	170	0	0
Table 3				Table 4			
ALT	TRK	IND	TRK	ALT	TRK	IND	TRK
0	0	0	0	0	0	0	0
1,000	0	0	0	1,000	0	0	0
2,000	0	0	0	2,000	0	0	0
3,000	0	0	0	3,000	0	0	0
4,000	0	0	0	4,000	0	0	0
5,000	0	0	0	5,000	0	0	0
6,000	0	0	0	6,000	0	0	0
8,000	0	0	0	8,000	0	0	0
10,000	0	0	0	10,000	0	0	0
12,000	0	0	0	12,000	0	0	0
14,000	0	0	0	14,000	0	0	0
16,000	0	0	0	16,000	0	0	0
20,000	0	0	0	20,000	0	0	0
22,000	0	0	0	22,000	0	0	0
25,000	0	0	0	25,000	0	0	0
30,000	0	0	0	30,000	0	0	0
35,000	0	0	0	35,000	0	0	0
40,000	0	0	0	40,000	0	0	0
45,000	0	0	0	45,000	0	0	0
50,000	0	0	0	50,000	0	0	0
Table 5				Table 6			
ALT	TRK	IND	TRK	ALT	TRK	IND	TRK
0	0	0	0	0	0	0	0
1,000	0	0	0	1,000	0	0	0
2,000	0	0	0	2,000	0	0	0
3,000	0	0	0	3,000	0	0	0
4,000	0	0	0	4,000	0	0	0
5,000	0	0	0	5,000	0	0	0
6,000	0	0	0	6,000	0	0	0
8,000	0	0	0	8,000	0	0	0
10,000	0	0	0	10,000	0	0	0
12,000	0	0	0	12,000	0	0	0
14,000	0	0	0	14,000	0	0	0
16,000	0	0	0	16,000	0	0	0
20,000	0	0	0	20,000	0	0	0
22,000	0	0	0	22,000	0	0	0
25,000	0	0	0	25,000	0	0	0
30,000	0	0	0	30,000	0	0	0
35,000	0	0	0	35,000	0	0	0
40,000	0	0	0	40,000	0	0	0
45,000	0	0	0	45,000	0	0	0
50,000	0	0	0	50,000	0	0	0
Table 7				Table 8			
ALT	TRK	IND	TRK	ALT	TRK	IND	TRK
0	0	0	0	0	0	0	0
1,000	0	0	0	1,000	0	0	0
2,000	0	0	0	2,000	0	0	0
3,000	0	0	0	3,000	0	0	0
4,000	0	0	0	4,000	0	0	0
5,000	0	0	0	5,000	0	0	0
6,000	0	0	0	6,000	0	0	0
8,000	0	0	0	8,000	0	0	0
10,000	0	0	0	10,000	0	0	0
12,000	0	0	0	12,000	0	0	0
14,000	0	0	0	14,000	0	0	0
16,000	0	0	0	16,000	0	0	0
20,000	0	0	0	20,000	0	0	0
22,000	0	0	0	22,000	0	0	0
25,000	0	0	0	25,000	0	0	0
30,000	0	0	0	30,000	0	0	0
35,000	0	0	0	35,000	0	0	0
40,000	0	0	0	40,000	0	0	0
45,000	0	0	0	45,000	0	0	0
50,000	0	0	0	50,000	0	0	0
Table 9				Table 10			
ALT	TRK	IND	TRK	ALT	TRK	IND	TRK
0	0	0	0	0	0	0	0
1,000	0	0	0	1,000	0	0	0
2,000	0	0	0	2,000	0	0	0
3,000	0	0	0	3,000	0	0	0
4,000	0	0	0	4,000	0	0	0
5,000	0	0	0	5,000	0	0	0
6,000	0	0	0	6,000	0	0	0
8,000	0	0	0	8,000	0	0	0
10,000	0	0	0	10,000	0	0	0
12,000	0	0	0	12,000	0	0	0
14,000	0	0	0	14,000	0	0	0
16,000	0	0	0	16,000	0	0	0
20,000	0	0	0	20,000	0	0	0
22,000	0	0	0	22,000	0	0	0
25,000	0	0	0	25,000	0	0	0
30,000	0	0	0	30,000	0	0	0
35,000	0	0	0	35,000	0	0	0
40,000	0	0	0	40,000	0	0	0
45,000	0	0	0	45,000	0	0	0
50,000	0	0	0	50,000	0	0	0
Table 11				Table 12			
ALT	TRK	IND	TRK	ALT	TRK	IND	TRK
0	0	0	0	0	0	0	0
1,000	0	0	0	1,000	0	0	0
2,000	0	0	0	2,000	0	0	0
3,000	0	0	0	3,000	0	0	0
4,000	0	0	0	4,000	0	0	0
5,000	0	0	0	5,000	0	0	0
6,000	0	0	0	6,000	0	0	0
8,000	0	0	0	8,000	0	0	0
10,000	0	0	0	10,000	0	0	0
12,000	0	0	0	12,000	0	0	0
14,000	0	0	0	14,000	0	0	0
16,000	0	0	0	16,000	0	0	0
20,000	0	0	0	20,000	0	0	0
22,000	0	0	0	22,000	0	0	0
25,000	0	0	0	25,000	0	0	0
30,000	0	0	0	30,000	0	0	0
35,000	0	0	0	35,000	0	0	0
40,000	0	0	0	40,000	0	0	0
45,000	0	0	0	45,000	0	0	0
50,000	0	0	0	50,000	0	0	0
Table 13				Table 14			
ALT	TRK	IND	TRK	ALT	TRK	IND	TRK
0	0	0	0	0	0	0	0
1,000	0	0	0	1,000	0	0	0
2,000	0	0	0	2,000	0	0	0
3,000	0	0	0	3,000	0	0	0
4,000	0	0	0	4,000	0	0	0
5,000	0	0	0	5,000	0	0	0
6,000	0	0	0	6,000	0	0	0
8,000	0	0	0	8,000	0	0	0
10,000	0	0	0	10,000	0	0	0
12,000	0	0	0	12,000	0	0	0
14,000	0	0	0	14,000	0	0	0
16,000	0	0	0	16,000	0	0	0
20,000	0	0	0	20,000	0	0	0
22,000	0	0	0	22,000	0	0	0
25,000	0	0	0	25,000	0	0	0
30,000	0	0	0	30,000	0	0	0
35,							









