

THE
adlogTM

AIRCRAFT
MAINTENANCE
RECORDKEEPING
SYSTEM

**AVIONICS
MAINTENANCE
RECORDS**



AVIONICS MAINTENANCE RECORDS

(including transponder biennial checks)

Log No. _____

Aircraft Registration No. N5813F

Aircraft Manufacturer MOONEY

Model M20J

Serial No. 24-1563

EQUIPMENT LISTING

List all installed avionics, autopilot and flight director equipment.

	Mfg.	Model	Serial No.
1.	_____	_____	_____
2.	_____	_____	_____
3.	_____	_____	_____
4.	_____	_____	_____
5.	_____	_____	_____
6.	_____	_____	_____
7.	_____	_____	_____
8.	_____	_____	_____
9.	_____	_____	_____
10.	_____	_____	_____
11.	_____	_____	_____
12.	_____	_____	_____
13.	_____	_____	_____
14.	_____	_____	_____
15.	_____	_____	_____
16.	_____	_____	_____
17.	_____	_____	_____
18.	_____	_____	_____
19.	_____	_____	_____
20.	_____	_____	_____

DATE

AIRFRAME
TIME
IN
SERVICEAVIONICS
TIME
IN
SERVICEDESCRIPTION OF WORK PERFORMED—
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK**SKYCOM AVIONICS, INC.**
AIRCRAFT LOG ENTRY

Description of work done:

Removed analog clock S/N 335 pt# MD-88C
Installed new digital M-800 Batt S/N 08202.
also installed a King KX-99 Handheld Adaptor under
pilot's panel. spliced into #2 com coax. placarded
panel "Do not transmit on #2 com when using handheld"
all work done I am prof. Installation manual A/C 4313
chp 1 & 2. no wst chgs.
✓ ✓ ✓

The aircraft and/or 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: 5-7-93 Tach: 2092.0 W.O. 301438 Signed: [Signature]

☐ **TIMMERMAN FIELD**
9305 W. APPLETON AVE.
MILWAUKEE, WI 53225
(414) 463-8180
□ F.A.A. No. NC5R-062N

☐ **CRITES FIELD**
24151 W. BLUEMOUND RD.
WAUKESHA, WI 53188
(414) 521-8180
□ F.A.A. No. NC5D-062N

☒ **KENOSHA MUNICIPAL AIRPORT**
9420 - 52ND ST.
KENOSHA, WI 53144
(414) 652-8120
□ F.A.A. No. NC52-062N

SKYCOM AVIONICS, INC.
AIRCRAFT LOG ENTRY

Description of work done:

N # 5813F

Removed Loaner King KNS-80 Nav system S/N 7466
+ reinstalled factory serviced King KNS-80 Nav System
S/N 13239. Function tested systems + found
to meet MPS.
Replaced defective King KX-99 adaptor w/ new
adaptor. Function tested + found OK.
— END —

The aircraft and/or 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: 12-2-93 Tach: 1320.6 W.O. 301526 Signed: [Signature]

☐ **TIMMERMAN FIELD**
9305 W. APPLETON AVE.
MILWAUKEE, WI 53225
(414) 463-8180
□ F.A.A. No. NC5R-062N

☐ **CRITES FIELD**
24151 W. BLUEMOUND RD.
WAUKESHA, WI 53188
(414) 521-8180
□ F.A.A. No. NC5D-062N

☒ **KENOSHA MUNICIPAL AIRPORT**
9420 - 52ND ST.
KENOSHA, WI 53144
(414) 652-8120
□ F.A.A. No. NC52-062N

☐ **DANE COUNTY AIRPORT**
3430 MILLER STREET
MADISON, WI 53704
(608) 246-8180
□ F.A.A. No. NC53-062N

DATE	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			SKYCOM AVIONICS, INC.
			AIRCRAFT LOG ENTRY
Description of work done:			N # <u>5813F</u>
X REMOVED WX-10A STORMSCOPE ANTENNA SN 1591. INSTALLED NEW WX-			
10A STORMSCOPE ANTENNA SN FIA11300176. FUNCTION TESTED			
SYSTEM I.A.W. TECH DATA, FOUND TO MEET MPS.			
-----END-----			
The aircraft and/or 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: <u>9-14-94</u>	Tach: <u>14412</u>	W.O. <u>301735</u>	Signed <u>Pat W Chapman</u>
☐ TIMMERMAN FIELD 9305 W. APPLETON AVE. MILWAUKEE, WI 53225 (414) 463-8180 ☐ F.A.A. No. NC5R062N	☐ CRITES FIELD 24151 W. BLUEMOUND RD. WAUKESHA, WI 53188 (414) 521-8180 ☐ F.A.A. No. NC5D062N	☒ KENOSHA MUNICIPAL AIRPORT 9420 - 52ND ST. KENOSHA, WI 53144 (414) 652-8120 ☐ F.A.A. No. NC52062N	☐ DANE COUNTY AIRPORT 3430 MILLER STREET MADISON, WI 53704 (608) 246-8180 ☐ F.A.A. No. NC53062N

SKYCOM AVIONICS, INC.
AIRCRAFT LOG ENTRY

N # 5813F

Description of work done:

REMOVED WX-10A STORMSCOPE INDICATOR S/N R0D11400834

AND PROCESSOR S/N R0P11400834 FOR SERVICE.

-----END-----

SERVICEABLE

Date 8-19-94 Work Order No. 67494
 Customer Skycom
 Part No. 78-8047-09844
 Model No. WX10A DISPLAY
 Serial No. R0D11400834
 Technician E. Lohmeyer
 Inspector Tom Jones

The aircraft component and/or appliance identified was repaired and inspected in accordance with current regulations of the Federal Aviation Agency and is approved for return to service. Pertinent details of this repair are on file at this repair station under the work order number.

Federal Aviation Regulations following work number.

Carver

☐ **DANE COUNTY AIRPORT**
3430 MILLER STREET
MADISON, WI 53704
(608) 246-8180
☐ F.A.A. No. NC53062N

SERVICEABLE

DATE

Date 9-27-94 Work Order No. 68666Customer SKYCOMPart No. 78-8047-0984-4Model No. WX-10A DISPSerial No. ROD11400834Technician Joe WhittemoreInspector Wm. C. L. Addy

The aircraft component and/or appliance identified was repaired and inspected in accordance with current regulations of the Federal Aviation Agency and is approved for return to service. Pertinent details of this repair are on file at this repair station under the work order number.

The aircraft and/or 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: 9-29-94 Tach: _____ W.O. 301735 Signed Joe Whittemore

☒ **TIMMERMAN FIELD**
9305 W. APPLETON AVE.
MILWAUKEE, WI 53225
(414) 463-8180
☐ F.A.A. No. NC5R062N

☐ **CRITES FIELD**
24151 W. BLUEMOUND RD.
WAUKESHA, WI 53188
(414) 521-8180
☐ F.A.A. No. NC5D062N

☐ **KENOSHA MUNICIPAL AIRPORT**
9420 - 52ND ST.
KENOSHA, WI 53144
(414) 652-8120
☐ F.A.A. No. NC52062N

☐ **DANE COUNTY AIRPORT**
3430 MILLER STREET
MADISON, WI 53704
(608) 246-8180
☐ F.A.A. No. NC53062N

SKYCOM AVIONICS, INC.
AIRCRAFT LOG ENTRY

Description of work done:

N # 5813F

REMOVED INTERMITTENT WX-10A STORMSCOPE ANTENNA S/N
FIA11300176 AND REINSTALLED ORIGINAL WX-10A ANTENNA S/N
1591. FOUND SHORTED MIC KEY SUPPRESSION LINE. REMOVED
WIRE. SYSTEM FUNCTIONED IN ACCORDANCE WITH
MANUFACTURER'S SPECS.

----- END -----

The aircraft and/or 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: 10-5-94 Tach: _____ W.O. 301735 Signed Joe Whittemore

☒ **TIMMERMAN FIELD**
9305 W. APPLETON AVE.
MILWAUKEE, WI 53225
(414) 463-8180
☐ F.A.A. No. NC5R062N

☐ **CRITES FIELD**
24151 W. BLUEMOUND RD.
WAUKESHA, WI 53188
(414) 521-8180
☐ F.A.A. No. NC5D062N

☐ **KENOSHA MUNICIPAL AIRPORT**
9420 - 52ND ST.
KENOSHA, WI 53144
(414) 652-8120
☐ F.A.A. No. NC52062N

☐ **DANE COUNTY AIRPORT**
3430 MILLER STREET
MADISON, WI 53704
(608) 246-8180
☐ F.A.A. No. NC53062N

DATE	AIRFRAME TIME IN SERVICE	AVIONIC TIME IN SERVICE	TABLE 1 SCALE ERROR	TABLE 2	TABLE 4	TABLE 3 FRICTION
			ALT TOL IND	TOL IND	PRESS HG IND TOL	DIFF ALT TOL IND
			-1000 20 -1010	CASE LEAK 100 0	28.10 -1727 25-1740	1000 70 50
			0 20 18		28.50 -1340 25-1340	2000 70 40
			500 20 515	HYSTERESIS	29.00 -863 25 -860	3000 70 30
			1000 20 1020		29.50 -392 25 -400	5000 70 50
			1500 20 1510	1st TEST PT 75 66	29.92 0 25 0	10000 80 50
			2000 30 2025	(50% MAX ALT)	30.50 +531 25 540	15000 90 60
			3000 30 3025	2nd TEST PT 75 51	30.90 +893 25 910	20000 100 40
			4000 35 4027	(40% MAX ALT)	30.99 +974 25 990	25000 120 0
			6000 40 6025	AFTER EFFECT 30 7		30000 140 0
			8000 60 8013			35000 160 0
			10000 80 9999			40000 180 0
			12000 90 12003	ALTIMETER TESTED TO 20,000 FEET		50000 250 0
			14000 100 14000	DATE TESTED MAY 26, 1999		
			16000 110 16017	AIRCRAFT N NUMBER N5813F		
			18000 120 18036	CUSTOMER STEVE KOENIGSKNECHT		
			20000 130 20032	SERVICE ORDER # 9572	PILOT SYSTEM ☒	
			22500 140 22000	ALTIMETER P/N 066-3064-05		
			25000 155 0	ALTIMETER S/N 1357	COPILLOT SYSTEM	
			30000 180 0	ADC/ENCODER P/N N/A		
			35000 205 0	ADC/ENCODER S/N N/A	STANDBY SYSTEM	
			40000 230 0	TRANSPONDER NUMBER		

< PERFORMED—
PERSON PERFORMING WORK

ALTIMETER, STATIC AND TRANSPONDER CERTIFICATE

Sparky's Avionics
FAA CRS No. G911R794N

IFA

414-658-2025

N5813F

9:00 52nd Street
Kenosha, WI 53144

Test Alt x 1000 FL	-1	0	5	1	1.5	2	3	4	6	8	10	12	14	16	18
Tolerance ± FL	20	20	20	20	25	30	30	35	40	60	80	90	100	110	120
Actual ± FL	+10	+15	+20	+20	+15	+20	+25	+30	+20	+10	0	0	0	+10	+25
Test Alt x 1000 FL	20	22	25	30	35	40	45	50	Case	25	ALTIMETER				
Tolerance ± FL	130	140	155	150	205	230	255	260	Tolerance	-30	25	Make 066-3064-05			
Actual ± FL	+30								Tolerance	18	25	Model 1357			
CERTIFIED ALTIMETER PER FAR 43 APP E TO 20K FT. CERTIFIED AIRCRAFT STATIC SYSTEMS PER FAR 91.411 (a) (1) PERFORMED TRANSPONDER TEST REQUIRED BY FAR 91.413 (a) (c) AND 91.217 (b) IN ACCORDANCE WITH FAR 43 APP F.											BLIND ENCODER				
TRANSPONDER MODEL KT 76A S/N 45569											Make SAME				
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.											Model				
Date 4/10/01 W.O. 353 Signed <i>Jeffery M. Reber</i>											S/N				
											#1 TRANSPONDER				
											Make				
											Model				
											S/N				

10/17/01

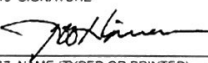
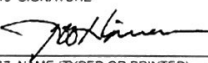
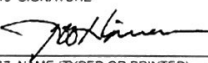
Removed KI525A s/n 24606 for repair by
Mid Continent Instruments. Reinstalled
repaired unit. System function checked
good.

for CRSEATR437D

Jeffery M. Reber

The Aircraft and/or component identified hereon
was repaired and inspected in accordance with
current Federal Air Regulations and was found
airworthy for return to service. Pertinent details of
the repair are on file at this agency under Work
Order No. 9109
Date 10-27-01
Signed *Jeffery M. Reber*
For: Superior Aviation, Inc.

Ford Airport
Iron Mountain, MI
Repair Station #EATR437D

DATE	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK																																																												
			SKYCOM AVIONICS, INC. AIRCRAFT LOG ENTRY																																																												
			Description of work done: N # <u>5813F</u> Installed 2 new trim tach wires to correct KFC-150 Autopilot disconnect problem. Function tested and found to meet MPS. Installed a new Gill G-35 Battery. Fully charged and tested. Found to meet MPS. Removed 3M WX-10A Stormscope Processor for service. Tied up cables and closed aircraft. ----END----																																																												
The aircraft and/or 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: <u>3/08/02</u> Tach: _____ W.O. <u>500174</u> Signed: _____																																																															
☐ TIMMERMAN FIELD 9305 W. APPLETON AVE. MILWAUKEE, WI 53225 (414) 463-8180 ☐ F.A.A. No. NC5R062N ☐ CRITES FIELD 24151 W. BLUEMOUND RD. WAUKESHA, WI 53188 (414) 521-8180 ☐ F.A.A. No. NC5D062N ☐ KENOSHA MUNICIPAL AIRPORT 9420 - 52ND ST. KENOSHA, WI 53144 (414) 652-8120 ☐ F.A.A. No. NC52062N ☐ DANE COUNTY AIRPORT 3430 MILLER STREET MADISON, WI 53704 (608) 246-8180 ☐ F.A.A. No. NC53062N																																																															
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;"> FAA FORM 8130-3 AIRWORTHINESS APPROVAL TAG U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION </td> <td style="text-align: center;"> 3 SYSTEM TRACKING REF NO 171120 </td> </tr> <tr> <td colspan="2"> 1 UNITED STATES </td> <td></td> </tr> <tr> <td colspan="2"> 4 ORGANIZATION CESSNA AIRCRAFT COMPANY CESSNA PARTS DISTRIBUTION DEPT. 702 5800 E PAWNEE, WICHITA, KS 67218 </td> <td> 5 WORK ORDER, CONTRACT OR INVOICE NUMBER 100286 </td> </tr> <tr> <td style="width: 5%;">6 ITEM</td> <td style="width: 35%;">7 DESCRIPTION</td> <td style="width: 15%;">8 PART NUMBER</td> </tr> <tr> <td></td> <td>43 BATTERY DRY G-35</td> <td></td> </tr> <tr> <td></td> <td></td> <td>9 ELIGIBILITY*</td> </tr> <tr> <td></td> <td></td> <td>TBV BY IN1 STALLER</td> </tr> <tr> <td></td> <td></td> <td>10 QTY</td> </tr> <tr> <td></td> <td></td> <td>1</td> </tr> <tr> <td></td> <td></td> <td>11 SERIAL/BATCH NO</td> </tr> <tr> <td></td> <td></td> <td>N/A</td> </tr> <tr> <td></td> <td></td> <td>12 STATUS/WORK</td> </tr> <tr> <td></td> <td></td> <td>New</td> </tr> <tr> <td colspan="3"> 13 REMARKS AIRWORTHINESS APPROVAL - PARTS. THIS FORM IS NOT AN EXPORT APPROVAL. PO# 010943 LIMITED LIFE PARTS MUST BE ACCOMPANIED BY MAINTENANCE HISTORY INCLUDING TOTAL TIME/TOTAL CYCLES/TIME SINCE NEW </td> </tr> <tr> <td colspan="2"> 14 NEW ☒ NEWLY OVERHAULED ☐ Certifies that the new or newly overhauled part(s) identified above, except as otherwise specified in block 13 was (were) manufactured in accordance with FAA approved design data and airworthiness. NOTE: In case of parts to be exported, the special requirements of the importing country have been met </td> <td> 19 Return to Service in Accordance with FAR 43.9 Certifies that the work specified in block 13 (or attached) was carried out in accordance with FAA airworthiness regulations and in respect to the work performed the part(s) is (are) approved for return to service </td> </tr> <tr> <td colspan="2"> 15 SIGNATURE  </td> <td> 16 FAA AUTHORIZATION NO. PC4 </td> </tr> <tr> <td colspan="2"> 17 NAME (TYPED OR PRINTED) JEFF HINMAN, DOA </td> <td> 18 DATE 09/29/2001 </td> </tr> <tr> <td colspan="2"> 20 AUTHORIZED SIGNATURE _____ </td> <td> 21 CERTIFICATE NO. _____ </td> </tr> <tr> <td colspan="2"> 22 NAME (TYPE OR PRINTED) _____ </td> <td> 23 DATE _____ </td> </tr> <tr> <td colspan="3"> FAA FORM 8130-3 (11/93) *OPTIONAL: INSTALLER MUST CROSS CHECK ELIGIBILITY WITH APPLICABLE TECHNICAL DATA </td> </tr> </table>				FAA FORM 8130-3 AIRWORTHINESS APPROVAL TAG U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		3 SYSTEM TRACKING REF NO 171120	1 UNITED STATES			4 ORGANIZATION CESSNA AIRCRAFT COMPANY CESSNA PARTS DISTRIBUTION DEPT. 702 5800 E PAWNEE, WICHITA, KS 67218		5 WORK ORDER, CONTRACT OR INVOICE NUMBER 100286	6 ITEM	7 DESCRIPTION	8 PART NUMBER		43 BATTERY DRY G-35				9 ELIGIBILITY*			TBV BY IN1 STALLER			10 QTY			1			11 SERIAL/BATCH NO			N/A			12 STATUS/WORK			New	13 REMARKS AIRWORTHINESS APPROVAL - PARTS. THIS FORM IS NOT AN EXPORT APPROVAL. PO# 010943 LIMITED LIFE PARTS MUST BE ACCOMPANIED BY MAINTENANCE HISTORY INCLUDING TOTAL TIME/TOTAL CYCLES/TIME SINCE NEW			14 NEW ☒ NEWLY OVERHAULED ☐ Certifies that the new or newly overhauled part(s) identified above, except as otherwise specified in block 13 was (were) manufactured in accordance with FAA approved design data and airworthiness. NOTE: In case of parts to be exported, the special requirements of the importing country have been met		19 Return to Service in Accordance with FAR 43.9 Certifies that the work specified in block 13 (or attached) was carried out in accordance with FAA airworthiness regulations and in respect to the work performed the part(s) is (are) approved for return to service	15 SIGNATURE 		16 FAA AUTHORIZATION NO. PC4	17 NAME (TYPED OR PRINTED) JEFF HINMAN, DOA		18 DATE 09/29/2001	20 AUTHORIZED SIGNATURE _____		21 CERTIFICATE NO. _____	22 NAME (TYPE OR PRINTED) _____		23 DATE _____	FAA FORM 8130-3 (11/93) *OPTIONAL: INSTALLER MUST CROSS CHECK ELIGIBILITY WITH APPLICABLE TECHNICAL DATA		
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DATE	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			SKYCOM AVIONICS, INC. AIRCRAFT LOG ENTRY
Description of work done:			N # 5813F
Reinstalled factory serviced 3M WX-10A Stormscope Processor P/N 78-8047-0985-1 S/N ROP11400834 in aircraft. Tested and found to meet MPS. -----END-----			
The aircraft and/or 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: 5/14/02	Tach: 2858.3	W.O. 500174	Signed: <i>[Signature]</i>
☐ TIMMERMAN FIELD 9305 W. APPLETON AVE. MILWAUKEE, WI 53225 (414) 463-8180 ☐ F.A.A. No. NC5R062N	☐ CRITES FIELD 24151 W. BLUEMOUND RD. WAUKESHA, WI 53188 (414) 521-8180 ☐ F.A.A. No. NC5D062N	☐ KENOSHA MUNICIPAL AIRPORT 9420 - 52ND ST. KENOSHA, WI 53144 (414) 652-8120 ☐ F.A.A. No. NC52062N	☐ DANE COUNTY AIRPORT 3430 MILLER STREET MADISON, WI 53704 (608) 246-8180 ☐ F.A.A. No. NC53062N
			SKYCOM AVIONICS, INC. AIRCRAFT LOG ENTRY
Description of work done:			N # 5813F
Removed King KI-525A HSI Indicator s/n 24606 and King KX-165 Nav/Com s/n P1950 for service. Installed loaner King KI-525A HSI Indicator s/n 42473 and loaner King KX-165 Nav/Com s/n 3003. Function tested systems and found to meet manufacturer's specs. -----END-----			
The aircraft and/or 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: 7/30/02	Tach: 1920.2	W.O. 500530	Signed: <i>[Signature]</i>
☐ TIMMERMAN FIELD 9305 W. APPLETON AVE. MILWAUKEE, WI 53225 (414) 463-8180 ☐ F.A.A. No. NC5R062N	☐ CRITES FIELD 24151 W. BLUEMOUND RD. WAUKESHA, WI 53188 (414) 521-8180 ☐ F.A.A. No. NC5D062N	☐ KENOSHA MUNICIPAL AIRPORT 9420 - 52ND ST. KENOSHA, WI 53144 (414) 652-8120 ☐ F.A.A. No. NC52062N	☐ DANE COUNTY AIRPORT 3430 MILLER STREET MADISON, WI 53704 (608) 246-8180 ☐ F.A.A. No. NC53062N

DATE	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			SKYCOM AVIONICS, INC. AIRCRAFT LOG ENTRY
			N # <u>5813F</u>
Description of work done: Removed loaner King KI-525A HSI Indicator s/n 42473 and loaner King KX-165 Nav/Com s/n 3003. Reinstalled customer's serviced King KI-525A HAI s/n 24606 and King KX-165 Nav/Com s/n P1950. Removed King KY-197 s/n 79139 for service (display change). Reinstalled and tested systems. Found to meet manufacturer's specs. ---END---			
The aircraft and/or 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: <u>8/19/02</u> Tach: <u>2476.58</u> W.O. <u>500578</u> Signed <u>[Signature]</u>			
☐ TIMMERMAN FIELD 9305 W. APPLETON AVE. MILWAUKEE, WI 53225 (414) 463-8180 ☐ F.A.A. No. NC5R062N ☐ CRITES FIELD 24151 W. BLUEMOUND RD. WAUKESHA, WI 53188 (414) 521-8180 ☐ F.A.A. No. NC5D062N ☐ KENOSHA MUNICIPAL AIRPORT 9420 - 52ND ST. KENOSHA, WI 53144 (414) 652-8120 ☐ F.A.A. No. NC52062N ☐ DANE COUNTY AIRPORT 3430 MILLER STREET MADISON, WI 53704 (608) 246-8180 ☐ F.A.A. No. NC53062N			
			SKYCOM AVIONICS, INC. AIRCRAFT LOG ENTRY
			N # <u>5813F</u>
Description of work done: Removed King KX-165 Nav/Com S/N P1950 from aircraft for service. Installed a loaner King KX-165 Nav/Com S/N 3003. Tested system and found to meet MPS. ----END----			
The aircraft and/or 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: <u>9/25/02</u> Tach: <u>1939.1</u> W.O. <u>500671</u> Signed <u>[Signature]</u>			
☐ TIMMERMAN FIELD 9305 W. APPLETON AVE. MILWAUKEE, WI 53225 (414) 463-8180 ☐ F.A.A. No. NC5R062N ☒ CRITES FIELD 24151 W. BLUEMOUND RD. WAUKESHA, WI 53188 (414) 521-8180 ☐ F.A.A. No. NC5D062N ☐ KENOSHA MUNICIPAL AIRPORT 9420 - 52ND ST. KENOSHA, WI 53144 (414) 652-8120 ☐ F.A.A. No. NC52062N ☐ DANE COUNTY AIRPORT 3430 MILLER STREET MADISON, WI 53704 (608) 246-8180 ☐ F.A.A. No. NC53062N			

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MOBILE AVIONICS 8585 Pyott Rd Lake in the Hills, IL 60156 (815) 458-0448 Date: 4-4-03 Work Order No. 2437 I certify that the altimeter checks required by FAR 91.411 have been performed this date and were found to comply with Part 43, Appendix E, Paragraph B. Altimeter Serial No. 1357 KEA130A Tested To 20K Signed for CRS No. #1458R062J <table border="1"> <thead> <tr> <th>Altimeter Readings</th> <th>Error</th> <th>Altimeter Readings</th> <th>Error</th> </tr> </thead> <tbody> <tr><td>0</td><td>0</td><td>14,000</td><td>40</td></tr> <tr><td>500</td><td>0</td><td>15,000</td><td>10</td></tr> <tr><td>1,000</td><td>10</td><td>16,000</td><td>10</td></tr> <tr><td>1,500</td><td>10</td><td>17,000</td><td>20</td></tr> <tr><td>2,000</td><td>10</td><td>18,000</td><td>20</td></tr> <tr><td>2,500</td><td>10</td><td>19,000</td><td>20</td></tr> <tr><td>3,000</td><td>10</td><td>20,000</td><td>20</td></tr> <tr><td>3,500</td><td>10</td><td>21,000</td><td>20</td></tr> <tr><td>4,000</td><td>10</td><td>22,000</td><td>20</td></tr> <tr><td>4,500</td><td>10</td><td>23,000</td><td>20</td></tr> <tr><td>5,000</td><td>10</td><td>24,000</td><td>20</td></tr> <tr><td>5,500</td><td>10</td><td>25,000</td><td>20</td></tr> 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21,000	10	56,000	20																																																																																																																																																																																																																																																																																																																																																																
21,500	10	57,000	20																																																																																																																																																																																																																																																																																																																																																																
22,000	10	58,000	20																																																																																																																																																																																																																																																																																																																																																																
22,500	10	59,000	20																																																																																																																																																																																																																																																																																																																																																																
23,000	10	60,000	20																																																																																																																																																																																																																																																																																																																																																																
23,500	10	61,000	20																																																																																																																																																																																																																																																																																																																																																																
24,000	10	62,000	20																																																																																																																																																																																																																																																																																																																																																																
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25,000	10	64,000	20																																																																																																																																																																																																																																																																																																																																																																
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26,000	10	66,000	20																																																																																																																																																																																																																																																																																																																																																																
26,500	10	67,000	20																																																																																																																																																																																																																																																																																																																																																																
27,000	10	68,000	20																																																																																																																																																																																																																																																																																																																																																																
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29,500	10	73,000	20																																																																																																																																																																																																																																																																																																																																																																
30,000	10	74,000	20																																																																																																																																																																																																																																																																																																																																																																
30,500	10	75,000	20																																																																																																																																																																																																																																																																																																																																																																
31,000	10	76,000	20																																																																																																																																																																																																																																																																																																																																																																
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32,000	10	78,000	20																																																																																																																																																																																																																																																																																																																																																																
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33,000	10	80,000	20																																																																																																																																																																																																																																																																																																																																																																
33,500	10	81,000	20																																																																																																																																																																																																																																																																																																																																																																
34,000	10	82,000	20																																																																																																																																																																																																																																																																																																																																																																
34,500	10	83,000	20																																																																																																																																																																																																																																																																																																																																																																
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35,500	10	85,000	20																																																																																																																																																																																																																																																																																																																																																																
36,000	10	86,000	20																																																																																																																																																																																																																																																																																																																																																																
36,500	10	87,000	20																																																																																																																																																																																																																																																																																																																																																																
37,000	10	88,000	20																																																																																																																																																																																																																																																																																																																																																																
37,500	10	89,000	20																																																																																																																																																																																																																																																																																																																																																																
38,000	10	90,000	20																																																																																																																																																																																																																																																																																																																																																																
38,500	10	91,000	20																																																																																																																																																																																																																																																																																																																																																																
39,000	10	92,000	20																																																																																																																																																																																																																																																																																																																																																																
39,500	10	93,000	20																																																																																																																																																																																																																																																																																																																																																																
40,000	10	94,000	20																																																																																																																																																																																																																																																																																																																																																																
40,500	10	95,000	20																																																																																																																																																																																																																																																																																																																																																																
41,000	10	96,000	20																																																																																																																																																																																																																																																																																																																																																																
41,500	10	97,000	20																																																																																																																																																																																																																																																																																																																																																																
42,000	10	98,000	20																																																																																																																																																																																																																																																																																																																																																																
42,500	10	99,000	20																																																																																																																																																																																																																																																																																																																																																																
43,000	10	100,000	20																																																																																																																																																																																																																																																																																																																																																																



Waukesha County Airport / Crites Field
2441 Aviation Drive
Waukesha, WI 53188
(800) 443-4490
FAA# NC5D062N

AIRCRAFT LOG ENTRY

N# 5813F

DESCRIPTION OF WORK DONE:

Removed Bendix/King KMA-24 Audio Panel S/N 19686 from aircraft and installed an exchange Bendix/King KMA-24 audio Panel. Tested and found to meet MPS. ----END----

Date: 9/11/2003 Tach: _____ W.O.# 501494 Signed: _____

ED IN
ETURN

The aircraft and/or 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 above work order number.

DATE: 7-11-03

SIGNED: _____

The work specified in block 12/13 except as otherwise specified is considered ready for release to service under EASA

14. Certifies the items identified above were manufactured

☐ Approved design data and are in condition



Waukesha County Airport / Crites Field
2441 Aviation Drive
Waukesha, WI 53188
(800) 443-4490
FAA# NC5D062N

AIRCRAFT LOG ENTRY

N# 5813F

DESCRIPTION OF WORK DONE:

Removed Bendix/King KX-165 Nav/Com S/N P1950 from aircraft for service. Installed a loaner Bendix/King KX-165 Nav/Com S/N 3003. Tested and found to meet MPS. After service, removed loaner unit from aircraft and reinstalled customer's repaired unit. Tested and found to meet MPS. Removed Bendix/King KI-525A HSI from aircraft and sent out for repair. Installed a loaner Bendix/King KI-525A HSI. Tested and found to meet MPS. Upon return from repair, removed loaner unit from aircraft and reinstalled customer's repaired Bendix/King KI-525A HSI S/N 24606. Tested and found to meet MPS. ----END----

Date: 8-20-04 Tach: _____ W.O.# 502256 Signed: _____

The aircraft and/or 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 above work order number.



Waukesha County Airport / Crites Field
2441 Aviation Drive
Waukesha, WI 53188
(800) 443-4490
FAA# NC5D062N

AIRCRAFT LOG ENTRY

DESCRIPTION OF WORK DONE

N# 5813F

Removed glareshield and installed wire cap and spiral wrap around wire bundle underneath the upper instrument panel. Secured. Tested Com's and found to meet MPS. Removed both Com Antennas and cleaned mounting surfaces. Removed gaskets., Reinstalled and tested. Found to meet MPS. Sealed antenna with Pro-Seal. Updated Garmin AT GX-50 GPS Receiver S/N 6019639 software to version 3.5 in accordance with Garmin AT SB 561-4002-001. Function tested unit and found to meet MPS. Removed Bendix/King KNS-80 S/N 13239 from aircraft and installed a loaner Bendix/King KNS-80 S/N 12116. Tested and found to meet MPS. After repair, removed loaner unit from aircraft and reinstalled customer's unit. Tested and found to meet MPS. Replaced pilot's push to talk switch with a new switch. Tested and found to meet MPS. ---END---

Date 10-29-04 ^{Hubb:} 3039 W O # 502565 Signed [Signature]

The aircraft and/or 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 above work order number.

1. Name (typed or printed):

It is important to understand that the existence of the user/installer performs work in accordance with Block 1. It is essential that the user/installer specified in Block 1.
Statements in Blocks 14 and 19 do not conflict with the national regulations by the user/installer.
FAA Form 8130-2 (6-01) *User/installer must check this

MOBILE AVIONICS, INC.
8585 Pyott Rd
Lake in The Hills, IL 60156

Date 5-3-05
Work Order No. 3082

I certify that the altimeter checks required by 14CFR 91.411 have been performed this date and were found to comply with Part 43, Appendix E, Paragraph B.

Altimeter Serial No. 17928

Tested To 20K

Signed for CRS No. #M5BR662J

Altimeter Reads	Error	Altimeter Reads	Error
-1,000	-10	14,000	0
0	-20	16,000	-20
500	0	18,000	-10
1,000	-15	20,000	0
1,500	-10	22,000	
2,000	-20	23,000	
3,000	-10	30,000	
4,000	-10	35,000	
6,000	-10	40,000	
8,000	-10	45,000	
10,000	15	50,000	
12,000	20	HY 40%	30
HY 50%	60	After Effect	10

DATE

AIRFRAME
TIME
IN
SERVICEAVIONICS
TIME
IN
SERVICEDESCRIPTION OF WORK PERFORMED—
SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK

Waukesha County Airport / Crites Field
2441 Aviation Drive
Waukesha, WI 53188
(800) 443-4490
FAA# NC5D062N

AIRCRAFT LOG ENTRY

N# 5813F

DESCRIPTION OF WORK DONE:

Removed Bendix/King KNS-80 S/N 13239 from aircraft for service. Installed a loaner Bendix/King KNS-80 S/N 12116 in aircraft. Function tested and found to meet MPS. After service, removed loaner unit from aircraft and reinstalled customer's Bendix/King KNS-80 S/N 13239. Function tested and found to meet MPS. ---END---

Date 4/29/2005 Hobbs: 2071.5 W O # 502992 Signed [Signature]

The aircraft and/or 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 above work order number.



Waukesha County Airport / Crites Field
2441 Aviation Drive
Waukesha, WI 53188
(800) 443-4490
FAA# NC5D062N

AIRCRAFT LOG ENTRY

N# 5813F

DESCRIPTION OF WORK DONE:

Removed inoperative Bendix/King KX-165 Nav/Com S/N P1950 from aircraft for service. Installed a loaner Bendix/King KX-165 Nav/Com S/N 3003 in aircraft. Tested and found to meet MPS. ---END---

Date 8/05/2005 Total Time 3071.3 W O # 503211 Signed [Signature]

The aircraft and/or 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 above work order number.



Waukesha County Airport / Crites Field
2441 Aviation Drive
Waukesha, WI 53188
(800) 443-4490
FAA# NC5D062N

AIRCRAFT LOG ENTRY

N# 5813F

DESCRIPTION OF WORK DONE

Removed loaner Bendix/King KX-165 Nav/Com S/N 3003 from aircraft and reinstalled customer's repaired Bendix/King KX-165 Nav/Com S/N P1950. Tested and found to meet MPS. ---END---

Date 4/05/2006 Total Time 3100.5 W O # 503211 Signed [Signature]

The aircraft and/or 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 above work order number.

DATE	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
			I certify that transponder... <u>Garmin</u> Model <u>GT-1320</u> S/N <u>8112274</u> and system have been tested & inspected as required by FAR 91.413 in accordance with FAR 43, App. F. Details are on file at this agency under Work Order No. <u>A-10913</u>. Date: <u>6/28/06</u> Signed: <u>[Signature]</u> For: <u>Superior Aviation, Inc.</u> <u>Ford Airport</u> <u>Iron Mountain, MI</u> <u>Repair Station #EATR437D</u>
			I certify that the altimeter/altitude encoder & static system tests required by FAR Part 91.411 in accordance with FAR 43, App. E have been performed. The altimeter/altitude encoder was tested by <u>[Signature]</u> on <u>6/28/06</u> to <u>20,000</u> ft. For: <u>Superior Aviation, Inc.</u> <u>KEA130A</u> <u>Ford Airport</u> <u>Iron Mountain, MI</u> <u>S/N 1357</u> <u>Repair Station # EATR437D</u>
AIRFRAME LOG ENTRY N5813F			
Date: 8/17/2006			
Garmin GNS 530 s/n 78416170 certified for VFR/IFR Enroute, Terminal, and Non-Precision approaches.			
FAA Form 337 and FAA Approved Supplement to the aircraft flight manual this date 8/17/2006.			
The aircraft and/or components identified hereon was repaired and inspected in accordance with the current Federal Air Regulation and was found airworthy for return to service. Pertinent details of the repair are on file at this agency under work order No. A-10913A.			
Date: <u>8/17/2006</u>			
Signed: <u>[Signature]</u>			
Superior Aviation 250 Riverhills Road, Kingsford, MI 49802			
Repair Station No. EATR437D			

LOG BOOK ENTRY N5813F

DATE: 5/17/2007

DATE

1. Removed one (1) Garmin GA 56 Antenna, P/N 011-00134-00 and installed one (1) new GA 35 GPS/WAAS Antenna P/N 013-00235-00, S/N 17538 using the provisions left behind from the standard antenna IAW Garmin upgrade manual P/N 190-00357-06 Rev B and STC no. SA01933LA.
2. Removed Garmin GNS 530 P/N 011-00550-10 unit and installed Garmin GNS 530W, P/N 011-01064-40, S/N 78416170, using the provisions left behind from the standard 530 unit. Installation done IAW Garmin upgrade manual P/N 190-00357-06 Rev Band STC no. SA01933LA.
3. The GNS 530W was configured identical to the original 530 unit. Each interface was checked out IAW the 530W Installation Manual P/N 190-00357-02 Section 5. A copy of the checkout log was completed and included with the aircraft maintenance records.
4. Installed GNS 530W AFMS P/N 190-00357-63, FAA Approved date 12/21/2006 into the Aircraft Flight manual.
5. Updated the aircraft Equipment List and Weight and Balance to reflect the new WAAS units. The current electrical load Analysis remains valid since the new unit draws the same or less current than the original unit.

The Aircraft and/or component identified hereon was repaired and inspected in accordance with Federal Air Regulations and was found airworthy for return to service. Pertinent details of the repair are on file with this agency under:

Work Order No. A-11166

Date 5/17/2007

Signed

For: Superior Aviation, Inc.
250 Riverhills Road

Kingsford, MI 49802 Repair Station #EATR437D

I certify that transponder Garmin Model GTx330 s/n 84122174 and system have been tested & inspected as required by FAR 91.413 in accordance with FAR 43, App. F. Details are on file at this agency under

Work Order No. A-11547Date 6-11-08

Signed

For:

Superior Aviation
250 Riverhills Road
Kingsford, MI 49802
Repair Station #9SVR935L

I certify that the altimeter/altitude encoder & static system tests required by FAR Part 91.411 in accordance with FAR 43, App. E have been performed. The altimeter/altitude encoder was tested by:

on 6/11/08 to 20,000 ft.

For:

Superior Aviation
250 Riverhills Road
Kingsford, MI 49802

Repair Station #9SVR935L

United
KEA130A
S/N
1357

Alt. Model: KEA130A Mfg. United S/N 1357This Altimeter tested to 20,000 ft. in accordance with FAR 91.411 43, App. E.Date 6/11/08

SUPERIOR AVIATION

Signature

CRS # 9SVR935L

Alt	Alt Reads	Tol. + - ft.	Alt.	Alt Reads	Tol. + - ft.
-1000	-1020	20	14000	13950	100
0	-20	20	16000	15930	110
500	480	20	18000	17900	120
1000	980	20	20000	19900	130
1500	1480	25	22000		140
2000	1975	30	25000		155
3000	2975	30	30000		180
4000	3970	35	35000		205
6000	5970	40	40000		230
8000	7970	60	45000		255
10000	9970	80	50000		280
12000	11970	90			

CS 111843

Form 8130-

DATE	AIRFRAME TIME IN SERVICE	AVIONICS TIME IN SERVICE	DESCRIPTION OF WORK PERFORMED— SIGNATURE & CERTIFICATE NO. OF PERSON PERFORMING WORK
Mobile Avionics 8585 Pyott Rd Lake in the Hills, IL 60156			
N 5813F			
MOBILE AVIONICS, INC. 8585 Pyott Rd Lake in The Hills, IL 60156			
Date 5-1-10	Work Order No. 4578		
I certify that the altimeter checks required by 14CFR 91.411 have been performed this date and were found to comply with Part 43, Appendix E, Paragraph B. UNITED			
Altimeter Serial No. 1357			
Tested To 20K			
Signed for CRS No. #M5BR662J			

Altimeter Reads	Error	Altimeter Reads	Error
-1.000	5	14.000	0
0	5	16.000	0
500	5	18.000	-20
1.000	0	20.000	0
1.500	0	22.000	
2.000	-5	23.000	
3.000	-10	30.000	
4.000	-20	35.000	
6.000	-20	40.000	
8.000	20	45.000	
10.000	20	50.000	
12.000	20	HY 40%	10
HY 50%	40	After Effect	10

Aircraft Type M20J
Reg No 5813F
Ser No 24-1563

Mobile Avionics, Inc.
8585 Pyott Road
Lake in the Hills, IL 60156
(815) 459-0446
CRS M5BR662J

Date 5-1-10
W O No 4578
A/C Time

UPDATE GARMIN 430 TO MAIN S.W 5.04 PER
GARMIN S.B 0844
GARMIN 430 P/N 011-0280-10 S/N 97134466
M. Voltl 2754502

Riegelman Aviation Co., LLC
"serving the Midwest"
Ph. (715) 686-7523
Cell (262) 994-6706

Mobile service to fit any schedule

FAA CRS # RN7R687Y

N # 5813F

ALTIMETER, STATIC AND TRANSPONDER CERTIFICATE

ALTIMETER STATION RECORD																
TEST ALT. x 1000 FT.	-1	0	.5	1	1.5	2	3	4	5	6	8	10	12	14	15	16
TOL ± FT	20	20	20	20	25	30	30	35	70	40	60	80	90	100	90	110
ACTUAL	+5	+5	+10	+5	0	10	10	15	30	20	15	15	20	30	30	60
FRICITION																
TEST ALT. x 1000 FT.	18	20	22	25	30	35	40	45	50	BARO SCALE ERROR (TOL. ± 25 FT.)						
TOL ± FT	120	130	140	155	180	205	230	255	280	28.10	28.50	29.00	29.50	29.92	30.50	30.90
ACTUAL	80	90								3	5	3	2	0	+5	+6
FRICITION																
HYSTERESIS (TOL. + 75 FT.)										50% MAX		40% MAX		AFTER EFFECT (TOL 30 FT.)		
										+5		+5		OK		
										CASE LEAK						
										OK						

ALTIMETER MAKE: UNITED
MODEL: KEA130A
S/N: 1357

BLIND ENCODER MAKE:
MODEL:
S/N: 20,000

TRANSPONDER MAKE: GARMIN
MODEL: GTX330
S/N: 84122174

CERTIFIED ALTIMETER PER FAR 43, APP E (b) TO COMPLY WITH FAR 91.411
CERTIFIED STATIC SYSTEM PER FAR 43, APP E (a) TO COMPLY WITH FAR 91.411
CERTIFIED AUTOMATIC PRESSURE ALTITUDE REPORTING SYSTEM PER FAR 43, APP E (c) TO COMPLY WITH FAR 91.411
CERTIFIED TRANSPONDER PER FAR 43, APP F TO COMPLY WITH FAR 91.413
The aircraft and/or 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: 6-1-12 Tech/Hobb: 3397 W O: 1429 Signed: M. Voltl

N# 5813F

Riegelman Aviation Co., LLC
Ph. (715) 686-7523 Cell (262) 994-6706
FAA CRS # RN7R687Y

DISCREPANCY EXCESSIVE STATIC SYSTEM LEAKAGE.

CORRECTIVE

ACTION REPLACED SEALS IN ALTERNATE STATIC SHUTTLE VALVE. NOW COMPLIES WITH FAR 43, APP E (a) AND FAR 91.411.

The aircraft and/or component identified hereon was repaired and inspected in accordance with current Federal Air Regulations and was found airworthy for return to service.

SIGNED M. Riegelman DATE 6-11-14 W.O.# 1838

Riegelman Aviation Co., LLC

Mobile service to fit any schedule

"serving the Midwest".

Ph. (715) 686-7523

FAA CRS # RN7R687Y

Cell (262) 994-6706

N# 5813F

ALTIMETER, STATIC AND TRANSPONDER CERTIFICATE

TEST ALT. x 1000 FT.	-1	0	.5	1	1.5	2	3	4	5	6	8	10	12	14	15	16	
TOL. ± FT.	20	20	20	20	25	30	30	35	40	40	60	80	90	100	100	110	
ACTUAL	+5	0	+5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	-5	
FRICION																	
TEST ALT. x 1000 FT.	18	20	22	25	30	35	40	45	50	BARO. SCALE ERROR (TOL. ± 25 FT.)							
TOL. ± FT.	120	130	140	155	180	205	230	255	280	28.10	28.50	29.00	29.50	29.92	30.50	30.90	30.99
ACTUAL	60	40	30	20	10	0	-10	-20	-30	-13	0	+5	+1	0	-2	+7	+6
FRICION																	
HYSTERESIS (TOL. ± 75 FT.): MAX										50% MAX		40% MAX		AFTER EFFECT (TOL. 30 FT.)		CASE LEAK: OK	
ALTIMETER MAKE: <u>UNITED</u>										BLIND ENCODER MAKE:		TRANSPONDER MAKE: <u>GARMIN</u>					
MODEL: <u>KEA130A</u>										MODEL:		MODEL: <u>GTX 330</u>					
S/N: <u>1357</u>										S/N:		S/N: <u>84122174</u>					

CERTIFIED ALTIMETER PER FAR 43, APP. E (b) TO 20,000 FT. TO COMPLY WITH FAR 91.411.
CERTIFIED STATIC SYSTEM PER FAR 43, APP. E (a) TO COMPLY WITH FAR 91.411.
CERTIFIED AUTOMATIC PRESSURE ALTITUDE REPORTING SYSTEM PER FAR 43, APP. E (c) TO COMPLY WITH FAR 91.411.
CERTIFIED TRANSPONDER PER FAR 43, APP. F TO COMPLY WITH FAR 91.413.
The aircraft and/or 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: 6-11-14 Hobb: 3456.6 W.O. 1838 Signed: M. Riegelman

SEE BACK OF PAGE
FOR MOST RECENT CERT.

Riegelman Aviation Co., LLC
"serving the Midwest"
Ph. (715) 686-7523
Cell (262) 994-6706

Mobile service to fit any schedule

FAA CRS # RN7R687Y

N # 5813F

ALTIMETER, STATIC AND TRANSPONDER CERTIFICATE

TEST ALT. x 1000 FT.	-1	0	.5	1	1.5	2	3	4	5	6	8	10	12	14	15	16
TOL. ± FT.	20	20	20	20	25	30	30	35	40	40	60	80	90	100	90	110
ACTUAL FRICTION	+5	+5	+5	0	-5	-10	-10	-15	-20	-20	-15	-10	-20	-25	-30	-30
TEST ALT. x 1000 FT.	18	20	22	25	30	35	40	45	50	BARO. SCALE ERROR (TOL. ± 25 FT.)						
TOL. ± FT.	120	130	140	155	180	205	230	255	280	28.10	28.50	29.00	29.50	29.92	30.50	30.90
ACTUAL FRICTION	-45	-50	-50	-50	-50	-50	-50	-50	-50	2	5	0	3	0	9	+7
HYSTERESIS (TOL. ± 75 FT.): MAX. 50% <u>+25</u> 40% MAX. <u>+20</u>										AFTER EFFECT (TOL. 30 FT.): <u>OK</u>			CASE LEAK: <u>OK</u>			

ALTIMETER MAKE: UNITED
MODEL: KEA130A
S/N: 1357

BLIND ENCODER MAKE:
MODEL:
S/N:

TRANSPONDER MAKE: GARMIN
MODEL: GTX 330
S/N: 84122174

CERTIFIED ALTIMETER PER FAR 43, APP. E (b) TO 20,000 FT. TO COMPLY WITH FAR 91.411
CERTIFIED STATIC SYSTEM PER FAR 43, APP. E (a) TO COMPLY WITH FAR 91.411.
CERTIFIED AUTOMATIC PRESSURE ALTITUDE REPORTING SYSTEM PER FAR 43, APP. E (c) TO COMPLY WITH FAR 91.411.
CERTIFIED TRANSPONDER PER FAR 43, APP. F TO COMPLY WITH FAR 91.413.
The aircraft and/or 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: 11-10-16 Hobb: 3505.4 W.O. 2094 Signed: [Signature]

MAKE MOONEY
MODEL M20J
S/N 24-1563
REG NO 5813F
WORK ORDER 6228



Kubick Aviation Services, Inc.

Repair Station No 2KAR596C
250 Riverhills Road
Kingsford, MI 49802
Phone 906-779-5500

DATE 11/29/2017
A/C TSN 3538 2
HOBBS 3538 2

Airframe Entries

- Removed the following equipment Garmin GTX330 P/N 011-00455-00 Transponder

Installed the following equipment Garmin GTX330ES ADS-B out Transponder P/N 011-00455-60, S/N 84122174 after Modification by Garmin under WO# RMA 99379213 dated 11/20/2017 in accordance with STC SA01714WI and Installation Manual P/N 190-00734-10 rev 8 GTX330ES interfaced to existing Garmin GNS530W Navigator Provided Instructions for Continued Airworthiness in accordance with manufacturer's instructions from system maintenance manual P/N 190-00734-11 rev 3 Mar 2016 Chapter 4 and GTX330ES AFMS P/N 190-00734-15 rev 2, March 08, 2016

Recomputed aircraft Weight & Balance and revised Equipment List this date
- Updated Garmin GNS530W main software to v 5 30 and gps software to v 5 0 I A W. Garmin Service Bulletin NO 1606 Rev B and Garmin Software Service Bulletin NO 1317 Rev B

Provided Airplane Flight Manual Supplement 190-00357-03 Rev E and Garmin Pilot Guide Supplement 190-00356 Rev A
- Removed King KR 87 ADF system including ADF receiver P/N 066-1072-00, indicator P/N KI 227, antenna P/N 071-1234-00 and all wiring

Patched vacated hole by ADF antenna Fabricated and installed patch out of .032" 2024 T3 aluminum utilizing existing rivet pattern Acid etched and alodined affected area Patch installed with PRC sealant, primed and painted to match
- C/W FAR 91 413 Part 43 Appendix F Certified Garmin GTX330ES Transponder P/N 011-00455-60, S/N 84122174

Maintenance Release

The aircraft and/or component(s) on 5813F were repaired and inspected in accordance with current FARs rules of the Federal Aviation Regulations and was found Airworthy for return to service Pertinent details of the repair are on file at this Repair Station under Work Order No 6228 Dated 11/29/2017

DATE: 11/29/2017

SIGNED

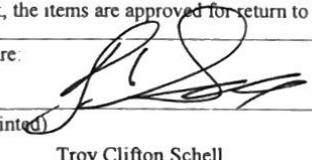
Chad Kubick
Certified Repair Station No 2KAR596C

Work Order: 6228

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I certify that Transponder Garmin Model GTX 330ES
S/N 84122174 and system have been tested & inspected as
required by FAR 91.413 in accordance with FAR 43, App. F.
Details are on file at this agency under Work Order No. 6228
Date 11-29-17 Signed: [Signature]

For: Kubick Aviation Services, Inc.
250 Riverhills Road
Kingsford, MI 49802
Repair Station #2KAR596C

1. Approving Civil Aviation Authority/Country: FAA/UNITED STATES		AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: RMA 99379213	
4. Organization Name and Address: GARMIN International 1200 E 151st Olathe, KS 66062				Certificate No. G6XR582Y		5. Work Order/Contract/Invoice Number: RMA 99379213	
6. Item:	7. Description:	8. Part Number:	9. Quantity:	10. Serial Number:	11. Status/Work:		
1.	GTX330 ES Black, NonDiversity, 2A, Final	011-00455-60	1	84122174	MODIFIED		
12. REMARKS Confirmed the return issue Upgraded unit to include ES capability Confirmed all applicable hardware modifications are installed. Updated software to the latest version. Aligned unit for optimum performance. Unit passes all tests and is operating within normal limits OK to return to Service. This unit complies with this Service Bulletin 1578. It is the responsibility of the Installer to verify that the installation complies with the previous listed Service Bulletins. The following Mod's were installed into this unit under its previous configuration prior to it being upgraded and configuration changed to part number 011-00455-60. This unit complies with MOD 2 per Garmin's Service Bulletin No 0714. The work that was performed on this unit was done to meet the requirements of all sections of the maintenance manual part number 190-00364-00 Rev- AR, Revision Date 2/22/2017. Thank You for Choosing Garmin! If you have any questions or concerns please do not hesitate to contact our customer service department at 1-800-800-1020 Please view Garmin's web site at www.garmin.com for any update or product information.							
<i>Installed 11-29-17 AFTT-3538.2</i>							
13a. Certifies the items identified above were manufactured in conformity to: ☐ Approved design data and are in condition for safe operation ☐ Non-approved design data specified in block 12				14a. ☒ 14 CFR 43.9 Return to Service ☐ Other regulations specified in Block 12 Certifies that unless otherwise specified in block 12, the work identified in Block 11 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
13b. Authorized Signature N / A		13c. Approval/Authorization No.: N / A		14b. Authorized Signature: 		14c. Approval/Certificate No: G6XR582Y	
13d. Name (Typed or Printed) N / A		13e. Date (dd/mm/yyyy) N / A		14d. Name (Typed or Printed) Troy Clifton Schell		14e. Date (dd/mm/yyyy) 20 Nov 2017	
User/Installer Responsibilities							
It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the Airworthiness Authority of the country specified in block 1. Statements in Block 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							

