



Work Order 321BA-2024-12
2024-11-22 - 2024-11-25

Work Order # 321BA-2024-12	Title: 24 Mo & IFR Cert	Description: 24 Mo & IFR Cert	Date Started 2024-11-22	Date Closed 2024-11-25	Total Hrs Est. / Act 0.0/0.0
Aircraft Times					
N#: 321BA	AF S/N: 208B5613	Eng S/N (1/2):	AC TT: 4193.1	PPTT 1: 4193.1	Hobbs: 4193.1
STRTS: 8642	STRTS 2: 395	Landings: 8642	NG: 0.00		
Prop 1: 3744.20	Prop 2936.60				
Work Completed					
Item #: 1	Title: Return to Service Sign-Off	Description:	Part Number:	Serial Number:	Date: 2024-11-25
Task Title	Task Description			Task Notes	Task Initials
Return to Service Pre-made Corrective Action	Select the "Return to Service" pre-made MX-Inspection Compliance Statement in the Canned Note for the MX-Inspection Compliance Section of this discrepancy at the completion of the Work Order.				11/25/2024 05:10:22 -
Audited Flight Record Picture	Attach/upload picture of audited flight record to this discrepancy.				11/24/2024 11:16:23 -
Audit Flight Record Book	Audit and correct math error Flight Record & Remove Complete Blue Copies. Ref: Bering Air GMM				11/24/2024 11:16:31 -
Garmin G1000 NXi Databases	Check Status of G1000 Databases/ Update if needed or if updates are available. Ref: 208 Garmin G1000 or G1000 NXi Line Maintenance Manual & Bering Air GMM				11/24/2024 06:43:35 -
RII Verification	Verify All RII Functions Have Been Completed at the Completion of this Inspection Packet Ref: Bering Air CAMP Manual				11/25/2024 05:03:35 -
Hobbs Meter Sticker Update	Placard Hobbs Meter with Inspection Due Time "_____ " Ref: Bering Air GMM				11/24/2024 08:10:21 -
Sump Fuel Tanks	Sump all fuel tank drains. Ref: 208 POH				11/24/2024 08:10:14 -
Aircraft Status Sheet in Aircraft/Tin Sheet	Update Bering Air Aircraft Status Sheet in Aircraft/Tin. Ref: Bering Air GMM				11/24/2024 08:10:50 -
Registration & Airworthiness Certificate	Verify aircraft Registration and Airworthiness Certificate are installed in the aircraft, legible, and Registration not expired.				11/24/2024 08:12:21 -
Post Maintenance Walk Around	Complete pre-flight walk around inspection at the completion of the inspection with extra focus on areas where maintenance was performed during the inspection. Ref: 208 POH				11/25/2024 05:07:21 -

Work Hours (EST ACT): 0.0		MX Notes: Details on file with work order #321BA-2024-4 Details on file with work order #321BA-2024-5 Details on file with work order #321BA-2024-6 Details on file with work order #321BA-2024-7 Details on file with work order #321BA-2024-9 Details on file with work order #321BA-2024-10 Details on file with work order #321BA-2024-11 Details on file with work order #321BA-2024-12 Details on file with work order #321BA-2025-1			
Notes: Next Inspection DUE @ 4300.0 Hrs for 100 Hr / 12 & 48 Mo Unairworthy @ 4325.0 hrs or Jan 2025					Mechanic:
Inspection Compliance: Contents of this Inspection Packet / Work Order completed. I certify that this aircraft has been inspected in accordance with Bering Air, Inc Continuous Airworthiness Maintenance Program (CAMP) and is approved for return to service at this time.					
MOC:					Inspector
Item #: 2	Title: 24 Mo Airframe Inspection, Low Speed Awareness, Eng Zonal	Description: 24 CALENDAR MONTH	Part Number:	Serial Number:	Date: 2024-11-25
Task Title	Task Description			Task Notes	Task Initials
Low Airspeed Awareness System - Check	Low Airspeed Awareness System Functional Test. Zone AUX Ref: 208 M/M Task 34-11-01-720				11/24/2024 07:36:15 -
Engine Compartment - Zonal	Engine Compartment Zonal Inspection. Zone 130 Ref: 208 M/M Task 71-00-01-210				11/25/2024 05:02:59 -
Work Hours (EST ACT): 0.0		MX Notes: Details on file with work order #321BA-2024-12			
Notes:					Mechanic:
Inspection Compliance: Inspection Checklist verified completed					
MOC:					Inspector
Item #: 3	Title: Altimeter IFR Cert	Description: 14CFR 91.411	Part Number: #1 & #2 GDC 74A, Stby GI 275	Serial Number: #1)P/N: 011-03734-00 S/N: 45\$002528 #2) P/N 011-03734-00 S/N: 45S002562 Stand By P/N: 011-04489-30 S/N 5MZ101117	Date: 2024-11-25
Task Title	Task Description			Task Notes	Task Initials

Pitot/Static - Check	Pitot/Static System Functional Check. Zone AUX Ref: 208 M/M Task 34-11-00-720, CFR 91.411, 208 M/M Insp Doc 21				11/23/2024 11:07:27 -
Equipment Removal	Remove all tooling and test equipment after testing is complete and returned to field elevation/0 kts.				11/23/2024 11:07:27 -
Plugs, caps, tape, etc Removal	Remove all tape/coverings from all pitot and static ports after testing is complete and returned to field elevation/0 kts.				11/23/2024 11:07:28 -
Tin Sheet Update	Update Bering Air Aircraft Status Sheet with new Pitot/Static Due date, Altimeter Due date, and Transponder Due date. NOTE: Due date is 2 years from IFR certification date. Ref: Bering Air GMM				11/24/2024 08:09:44 -
Work Hours (EST ACT): 0.0	MX Notes: ADC #1 GDC 74A S/N: ADC #2 GCD 74A S/N: Stby GI 275 S/N: Details on file with work order #321BA-2024-12				
Notes:					Mechanic
Inspection Compliance: Altimeter IFR see W.O. 3478 Bering Air Repair Station FXTR050A Inspection Checklist verified completed					
MOC:					Inspector
Item #: 4	Title: Transponder IFR Cert	Description: 14CFR 91.413	Part Number: GTX345R P/N 011-03303-00	Serial Number: 3EH028615	Date: 2024-11-25
Task Title	Task Description			Task Notes	Task Initials
Transponder - Check	Transponder Functional Check. Zone Aux Ref: 208 M/M Task 34-50-00-720, CFR 91.413, 208 M/M Insp Doc 22				11/23/2024 11:07:16
Equipment Removal	Remove all tooling and test equipment after testing is complete and returned to field elevation/0 kts.				11/23/2024 11:07:17
Plugs, caps, tape, etc Removal	Remove all tape/coverings from all pitot and static ports after testing is complete and returned to field elevation/0 kts.				11/23/2024 11:07:18
Tin Sheet Update	Update Bering Air Aircraft Status Sheet with new Pitot/Static Due date, Altimeter Due date, and Transponder Due date. NOTE: Due date is 2 years from IFR certification date. Ref: Bering Air GMM				11/24/2024 08:09:51
Work Hours (EST ACT): 0.0	MX Notes: Details on file with work order #321BA-2024-12				
Notes:					Mechanic
Inspection Compliance: Transponder IFR see W.O. 3478 Bering Air Repair Station FXTR050A Inspection Checklist verified completed					
MOC:					Inspector
Work Order Notes					
Work Order Sign Off					

GDC 1

Scale Correction		Altimeter S/N	
		456002528	
Tail Number 321BA		Date 11/22/24	
Altitude	Alt. Error	WO#	3478
-1000	0	Test	
0	0	Hysteresis	
500	0	After Effect	
1000	0	Friction	
1500	0	Case leak	
2000	0	Scale Error	
3000	3	Encoding	
4000	3	Barometric	
6000	0	Pressure-Altitude Difference	
8000	0	Setting (In. Hg)	Alt. Diff (Ft.)
10,000	0	28.10	5
12,000	0	28.50	3
14,000	0	29.00	3
16,000	0	29.50	2
18,000	0	29.92	0
20,000	0	30.50	0
22,000	3	30.99	4
25,000	3		
30,000	5		
35,000	8		
40,000			
45,000			
50,000			

Standby

Scale Correction		Altimeter S/N	
		SMZ 101117	
Tail Number 321BA		Date 11/22/24	
Altitude	Alt. Error	WO#	3478
-1000	8	Test	
0	8	Hysteresis	
500	10	After Effect	
1000	10	Friction	
1500	10	Case leak	
2000	10	Scale Error	
3000	10	Encoding	
4000	10	Barometric	
6000	10	Pressure-Altitude Difference	
8000	15	Setting (In. Hg)	Alt. Diff (Ft.)
10,000	15	28.10	—
12,000	18	28.50	—
14,000	18	29.00	7
16,000	20	29.50	8
18,000	20	29.92	8
20,000	25	30.50	5
22,000	30	30.99	4
25,000	30		
30,000	40		
35,000	50		
40,000			
45,000			
50,000			

GDC 2

Scale Correction		Altimeter S/N	
		45002562	
Tail Number 32184		Date 11/22/24	
Altitude	Alt. Error	WO#	3478
-1000	10	Test	
0	2	Hysteresis	
500	0	After Effect	
1000	0	Friction	
1500	0	Case leak	
2000	0	Scale Error	
3000	0	Encoding	
4000	0	Barometric	
6000	0	Pressure-Altitude Difference	
8000	3	Setting (In. Hg)	Alt. Diff (Ft.)
10,000	3	28.10	0
12,000	5	28.50	0
14,000	5	29.00	3
16,000	5	29.50	0
18,000	5	29.92	0
20,000	5	30.50	0
22,000	8	30.99	0
25,000	8		
30,000	10		
35,000	15		
40,000			
45,000			
50,000			

ALTIMETER CERTIFICATION LOGBOOK ENTRY

Tested ADC 458002528 IAW ICAs, FLMM, and FAR 43 Appx E(b) to 35000 feet.

Passed all tests. W/O# 3478.

Tested ADC 458002562 IAW ICAs, FLMM, and FAR 43 Appx E(b) to 35000 feet.

Passed all tests. W/O# 3478.

slw. SMZ101117
Tested standby module altitude-tape functionality IAW ICAs and FAR 43 Appx E(b) to 35000 feet. Passed all tests. W/O# 3478.

Tested static pressure systems #1 and #2 IAW FAR 43 Appx E(a); tested transponder system #1 and #2 IAW FAR 43 Appx F; and tested automatic altitude reporting system with all combinations of ADC 1 or ADC 2 with XPDR 1 or XPDR 2 successfully tested IAW FAR 43 Appx E(c). Systems passed all tests. W/O# 3478

Bering Air Repair Station, CRS [REDACTED]