ERA22FA279

AIRWORTHINESS

Group Chair's Factual Report - Attachment 7 MARPAT Aviation Work Order Nos. 22-02 and 21-06 MARPAT AVIATION LLC FORMS MANUAL

A Cart

PO Box 161 Switzer, WV. 25647 T: 304-752-0094 F: 304-752-0097

Work Order Form Cover Name, Initials, and Signature of Each Person Performing Work Under This Work Order

Work Order Number: 22-02

Name	Initials	Signature
Jeff Holbrook		
Mike Holbrook		
Ryan Craddock	<u> </u>	
Paul Chambers		and the second s
		7-02
	And Manager a	
		· · · · · · · · · · · · · · · · · · ·

N98F ACTT: 9029, 3ENG. 5moth : 569

Work Order Form

Revision Number:Original Revision Date:

Page 1

MARPAT AVIATION LLC FORMS MANUAL

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PO Box 161 Switzer, WV. 25647

			w	ork Order Fo	rm				
¹ Work Order N	lumbe	er: 22-02		² Work Ord	ler Date:	3/21/22	2	· · · · · · · · · · · · · · · · · · ·	
			Сu	aomer Informa	lion				
³ Customer:	MAR	PAT Avia	tion	⁴ Nationalit	y of Cus	tomer:	US		
⁵ RO Number:	N/A			6 Work Red	quested:	Annual	Inspection		
7 Maintenance	Data:	Part 43	Appendix D, FAA	Website for Al	Os, Own	er suppl	ied docum	ents	
⁸ Maintenance	Data	Verified?	res 🔀 No 🗌						
		l)	ncoming Review	and inspection	of Articl	le Receiv	/ed		
⁹ Nomenclature		ne: UH-1B							
¹⁰ Serial Numb	er:	488		¹¹ Part Nur		N/A			
¹² Model Numb	er:	UH-1B		¹³ Manufac	turer:	Bell/Wil	со		
¹⁴ ATA Number	r:	N/A		¹⁵ Other ID	:	N98F			
¹⁶ Review/Inspe	ectior	n Results:	ACTT: 9029.3	Engine SMOH	: 569.0				
¹⁷ Hidden Dam	age F	Reported:	Yes 🗌 No 🛣	¹⁸ Notes:					
¹⁹ Hidden Dam	age I	nspection I	Requirements: N/A						
·									1000
²⁰ Trouble Rep	<u></u>		Initial Disc	reparicy/Work I	nstructi	ons			
		•				· · · · · · · · · · · · · · · · · · ·		*****	
						·····			
		<u>,</u>							
²¹ Work Requir	ed: A	s Needed							
²² Special Instr	uction	าร:							
WO#: 22-02									

MARPAT AVIATION LLC

PO Box 161 Switzer, WV. 25647

Work Order Form

²³ This aircraft has been inspected IAW Part 43 Appendix D, annual inspection. Cleaned entire aircraft. R&R Main Transmission oil. R&R Tail rotor gearbox oil. R&R 42 degree gearbox oil. Performed global vertical fin spar 100 and 300 hour inspections, no defects found. R&R left windscreen. R&R main transmission oil filter. Inspected ELT IAW 91.207d, no defects found. Batteries due March 2031. Complied with all applicable ADs: AD 83-03-03 complied with visual inspection IAW par.C, no defects found, next due 9129.3. Radiographic inspection due @ 9066.8 ACTT. AD 99-25-12 vertical fin spar, complied with visual inspection IAW par. B&C, and performed global helicopter 100 hour inspection, no defects found. Next due 9129.3 ACTT. AD 75-26-05 complied with main rotor blade wipe and tap test, no defects found. Next due 9129.3 ACTT. AD 2021-15-14 complied with visual inspection, no defects found. Next due 9129.3 ACTT. Pre flight check due prior to first flight of the day, supplement attached to POH. Landing light extend/retract, inop. Placarded. Serviced main rotor dampers. Lubed aircraft IAW lube chart. Checked tail rotor rigging, no defects found. R&R engine oil. R&R engine fuel filters. Cleaned intake air screens. Performed compressor wash and rinse. Ground ran engine, no leaks detected, all gauges within operating range. Copy of this work order has been furnished to owner. THIS AIRCRAFT IS APPROVED FOR RETURN TO SERVICE FOR WORK PERFORMED. ²⁴ Progressive Inspections: N/A ²⁵ Corrective Action(s): N/A ²⁹ P.O.# ²⁷ Description 28 Quantity ²⁶ Part Number 3 stock 047546-02 filter stock stock WO# 22-02

Page 3

Work Order Form Solution Solution <t< th=""><th>FORMS</th><th>AT AVIATION</th><th>LLC</th><th>PO Box 1 Switzer, V</th><th></th><th>7</th><th>T: 304-752-0094 F: 304-752-0097</th></t<>	FORMS	AT AVIATION	LLC	PO Box 1 Switzer, V		7	T: 304-752-0094 F: 304-752-0097
³⁰ Date work was completed: W0#: 22-02 3/29/22 ³¹ Inspector: Mike Holbrook ³² Date: 3/29/22 ³³ Authorized Signature: ³⁴ Date: 3/29/22 W0#: 22-02 W0#: 22-02 ³⁴ Date: 3/29/22 W0#: 22-02 W0#: 22-02 W0#: 22-02 ³⁴ Date: 3/29/22 W0#: 22-02 This aircraft, or part, is found airworthy and approved for return to service for maintenance performed. See work order on file: Work Order#: Date: Date: Date: Date: MARPAT Aviation LLC Logan County Airport (6L4) Logan, WV. 25601 304-752-0094 CRS: ZWMR912K Date: Date: Date:				Work	Order F	orm	
³⁰ Date work was completed: W0#: 22-02 3/29/22 ³¹ Inspector: Mike Holbrook ³² Date: 3/29/22 ³³ Authorized Signature: ³⁴ Date: 3/29/22 W0#: 22-02 W0#: 22-02 ³⁴ Date: 3/29/22 W0#: 22-02 W0#: 22-02 W0#: 22-02 ³⁴ Date: 3/29/22 W0#: 22-02 This aircraft, or part, is found airworthy and approved for return to service for maintenance performed. See work order on file: Work Order#: Date: Date: Date: Date: MARPAT Aviation LLC Logan County Airport (6L4) Logan, WV. 25601 304-752-0094 CRS: ZWMR912K Date: Date: Date:							
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³³ Authorized Signature: ³⁴ Date: 3/29/22 WO#: 22-02 WO#: 22-02 This aircraft, or part, is found airworthy and approved for return to service for maintenance performed. See work order on file: See work order on file: Work Order#: DDDD MARPAT Aviation LLC Logan County Airport (6L4) Logan, WV. 25601 304-752-0094 CRS: ZWMR912K Date: Date:			-			3/20/22	
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CRS: ZWMR912K Date: <u>3-29-22</u>				Logan County	/ Airpor	t (6L4)	
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N98F

AFTT: 9229, 3 ENG. 569 WORK ORDER: 22-02

Appendix D to Part 43

J-Zl-Z2 Scope and Detail of items to be included in Annual and 100 hour inspections.

- a) Each person performing an annual or 100 hour inspection shall, before that inspection, remove or open all necessary inspection plates, access doors, fairing, and cowling. He shall thoroughly clean the aircraft and engine.
- b) Each person performing an annual or 100 hour inspection shall inspect (where applicable) the following components of the fuselage and hull group:
- (1) Fabric and skin- for deterioration, distortion, other evidence of failure, and defective or insecure attachment of fittings.
- (2) Systems and components- for improper installation, apparent defects, and unsatisfactory operation.

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(3) Envelope, gas bags, ballast tanks, and related parts- for poor condition.

- c) Each person performing an annual or 100 hour inspection shall inspect (where applicable) the following components of the cabin and cockpit group:
- (1) Generally- for cleanliness and loose equipment that might foul the controls.
- (2) Seats and safety belts- for poor condition, mounting, marking, and improper operation.
- (3) Windows and windshields- for deterioration and breakage.
- (4) Instruments- for poor condition, mounting, marking, and improper operation.
- (5) Flight and engine controls- for improper installation and improper operation.

(6) Batteries- for improper installation and improper charge.

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Page 1 of 5

	N98F AFTT: 7024 3ENG. 565 WORK ORDER: 22-02	2
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	(7)	-	s- for improper installation, poor general condition, apparent and obvious defects, Irity of attachment.
	d)	-	on performing an annual or 100 hour inspection shall inspect (where applicable) Its of the engine and nacelle group as follows:
	(1)	Engine sec leaks.	tion- for visual evidence of excessive oil, fuel, or hydraulic leaks, and sources of such
	(2)	Studs and	nuts- for improper torquing and obvious defects.
N/16	(3)	and sump	ngine- for cylinder compression and for metal particles or foreign matter on screens drain plugs. If there is weak cylinder compression, for improper internal condition and internal tolerances.
	(4)	Engine mo	ount- for cracks, looseness of mounting, and looseness of engine to mount.
N/t	(5)	Flexible vil	bration dampeners- for poor condition, and deterioration.
	(6)	Engine cor	ntrols- for defects, improper travel, and improper safetying.
	(7)	Lines, hose	es, and clamps- for leaks, improper condition, and looseness.
	(8)	Exhaust st	acks- for cracks, defects, and improper attachment.
	(9)	Accessorie	es- for apparent defects in security of mounting.
	(10) All system	ns- for improper installation, poor general condition, defects, and insecure attachment
	e)	-	on performing an annual or 100 hour inspection shall inspect (where applicable) the components of the landing gear group:
-	(1)	All units- f	or poor condition and insecurity of attachment.

N98F AFTT: 9629, SENG. ≤69 WORK	ORDER: 22-02
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(2) Shock absorbing devices- for improper oleo fluid level.

12/10		, trusses, and members- for undue or excessive wear fatigue, and distortion. ng and locking mechanism- for improper operation.
n/ /10	(5) Hydrauli	c lines- for leakage.
14	(6) Electrica	l system- for chafing and improper operation of switches.
NIA	(7) Wheels-	for cracks, defects, and condition of bearings.
n/a	(8) Tires- foi	r wear and cuts.
	(9) Brakes- f	for improper adjustment.
n) (p	(10)Floats ar	nd skis- for insecure attachment and obvious or apparent defects.
	components condition, fa	son performing an annual or 100 hour inspection shall inspect (where applicable) all and systems that make up the complete empennage assembly for poor general abric or skin deterioration, distortion, evidence of failure, insecure attachment, omponent installation, and improper component operation.
w/45		on performing an annual or 100 hour inspection shall inspect (where applicable) the mponents of the propeller group:
II A	(1) Prope	eller assembly- for cracks, nicks, binds, and oil leakage.
xe/A	(2) Bolts-	- for improper torque and safety wire.
N/A	(3) Anti-icing	g devices- for improper operation, and obvious defects.
n/ja	(4) Control n	nechanisms- for improper operation, insecure mounting, and restricted travel.
	I	

i) Each person performing an annual or 100 hour inspection shall inspect (where applicable) the following components of the radio group:

(1) Radio and electronic equipment- for improper installation and insecure mounting.

(2) Wiring and conduits- for improper routing, insecure mounting, and obvious defects.

(3) Bonding and shielding- for improper installation and poor condition.

(4) Antenna including trailing antenna- for poor condition, insecure mounting, and improper operation.

j) Each person performing an annual or 100 hour inspection shall inspect (where applicable) each installed miscellaneous item that is not otherwise covered by this listing for improper installation and improper operation.

k) Each person performing an inspection required by Part 91 on a rotorcraft shall inspect the following systems in accordance with the maintenance manual or Instructions for Continued Airworthiness of the manufacturer concerned:

(1) The drive shafts or similar systems.

(2) The main rotor transmission gear box for obvious defects.

(3) The main rotor and center section (or equivalent area).



(4) The auxiliary rotor on helicopters (tail rotor).

I) Each person approving a reciprocating engine powered aircraft for return to service after an annual or 100 hour inspection shall, before that approval, run the aircraft engine, or engines, to determine satisfactory performance in accordance with the manufacturer's recommendations for:

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(1) Power output (static and idle rpm).

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r/14	(2) Magneto	S.
n <i>th</i>	(3) Fuel and	oil pressure.
nº 1	(4) Cylinder	and oil temperature.
	or progressiv	son approving a turbine powered aircraft for return to service after an annual, 100 hour, ve inspection shall, before that approval, run the aircraft engine, or engines, to atisfactory performance in accordance with the manufacturer's recommendations.
		nergency Locator Transmitter (ELT): The ELT required by paragraph "a" of this section, pected within the last 12 months for:
	(1) Proper in	stallation.
		condition, expiration, corrosion, etc. くH こつう(
	(3) Operatio	n of controls and crash sensor.
	(4) The prese	ence of sufficient signal.
	(5) Enter bat	tery expiration and next due date into aircraft logbook.
	ō) Review ai Airworthine	rcraft records for 337's and or STCs. Comply with applicable Instructions For Continued ss (ICW).
Pag	ge 5 of 5	

e B MARPAT AVIATION LLC FORMS MANUAL PO Box 161 Switzer, WV. 25647

T: 304-752-0094 F: 304-752-0097

Work Order Form Cover Name, Initials, and Signature of Each Person Performing Work Under This Work Order

Work Order Number: 21-06

	Name	Initials	Signature					
N	like Holbrook							
	leff Holbrook							
Jı	istin Bradbury		_					
I	Paul Chambers							
			······································					
N98F	ACTT: 8968.5 Engine SMOH: 508.2							
	Engine TT: 5428							
Page 1								

MARPAT AVIATION LLC

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* PO Box 161 Switzer, WV. 25647

			Work	Order Form		
¹ Work Order Nu	mber:	21-06		² Work Order Date	e: 4/28/21	
			Custon	ner Information		
³ Customer: 1	MARF	PAT Av	ation	⁴ Nationality of Cu	stomer:	US
⁵ RO Number: I	N/A		-	⁶ Work Requested	Annual I	nspection
⁷ Maintenance D	ata:	Part 43	3 Appendix D, FAA We	bsite for ADs, Ow	ner suppli	ied documents
⁸ Maintenance D	ata Ve	THE SOUTH OF	Yes 🛛 No 🗌 Incoming Review and .	Inspection of Artic	le Receiv	ed
9 Nomenclature/	Name:					
¹⁰ Serial Number	48	8		¹¹ Part Number:	N/A	······
¹² Model Number	: UH	-1B		13 Manufacturer:	Bell/Wild	:0
¹⁴ ATA Number:	N/#	4	· · · · · · · · · · · · · · · · · · ·	¹⁵ Other ID:	N98F	
¹⁶ Review/Inspec	tion R	esults:	ACTT: 8968.5 E - Tach: 3386,4	ingine SMOH: 508.	.2 Eng	ine TT: 5428
¹⁷ Hidden Damag	ie Rep	ported:	Yes 🗌 No	¹⁸ Notes:		
¹⁹ Hidden Damag	e Insp	Dection	Requirements: N/A			
²⁰ Trouble Report	ed: N	lone	Initial Discrepa	ncy/Work Instruct	ions	
²¹ Work Required	: As N	leeded				
²² Special Instruc	tions:			· · · · · · · · · · · · · · · · · · ·		
WO#: 21-06						

PO Box 161 Switzer, WV. 25647

Work Order Form

Summary of Work Performed

²³ This aircraft has been inspected IAW Part 43 Appendix D, annual inspection. Cleaned entire aircraft. R&R main rotor gearbox oil, tail rotor gearbox oil, and 42 gearbox oil. Cleaned and repacked all driveshaft bearings. Performed global vertical fin spar 100 and 300 hr. inspections, no defects found. Complied with all applicable ADs:

AD 83-03-03 complied with visual inspection IAW par. C, next due 9066.8 ACTT, no defects found.

AD 99-25-12 vertical fin spar complied with visual inspection IAW par. B&C, no defects found, next due 9066.8 ACTT.

AD 75-26-05 complied with main rotor WD-40 blade wipe and tap test, next due 9066.8 ACTT.

Inspected ELT IAW 91.207d, no defects found, batteries due March 2022.

Installed TailBeaconX ADSB out Ground test was done using transponder ramp tester IAW CFR14-91.227, no defects found.

R&R engine fuel filters. R&R engine oil. Cleaned intake air screens. Found torque pressure transducer leaking, replaced with new unit. Performed compressor wash and rinse. Ground run of engine, no defects found.

Copy of this work order has been furnished to owner. THIS AIRCRAFT IS APPROVED FOR RETURN TO SERVICE FOR WORK PERFORMED.

²⁴ Progressive Inspections: N/A

²⁵ Corrective Action(s): N/A

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		Parts Used	
²⁶ Part Number	²⁷ Description	²⁸ Quantity	²⁹ P.O.#
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WO# 21-06			

MARPAT AVIATION LLC	
FORMS MANUAL	

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PO Box 161 Switzer, WV. 25647

		Work Orde	er Form		
		Final Insp	ection		
³⁰ Date work was complet		6 6/17/21			
³¹ Inspector: Mike Holk	brook . A	³² Da			
³³ Authorized Signature: WO#: 21-06	ļ	³⁴ Da	te: 6/17/2	21	
	4				
- This	aircraft, or part,	is found airw	orthy and	approved	
i for t	roum to service	for mainten vork order or	ance perf	ormed.	
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Work	k Order#:	A - C	10		
	Logan C	AT Aviation County Airpon	t (6L4)		
	Log	an, WV256 4 -75 2-009	01		
	CRS:	ZWMR	12K		1
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	ie:				
Sign	nature:				
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Appendix D to Part 43

4-78 Scope and Detail of items to be included in Annual and 100 hour inspections.

- a) Each person performing an annual or 100 hour inspection shall, before that inspection, remove or open all necessary inspection plates, access doors, fairing, and cowling. He shall thoroughly clean the aircraft and engine.
- b) Each person performing an annual or 100 hour inspection shall inspect (where applicable) the following components of the fuselage and hull group:
- (1) Fabric and skin- for deterioration, distortion, other evidence of failure, and defective or insecure attachment of fittings.
- (2) Systems and components- for improper installation, apparent defects, and unsatisfactory operation.

(3) Envelope, gas bags, ballast tanks, and related parts- for poor condition.

- c) Each person performing an annual or 100 hour inspection shall inspect (where applicable) the following components of the cabin and cockpit group:
- (1) Generally- for cleanliness and loose equipment that might foul the controls.
- (2) Seats and safety belts- for poor condition, mounting, marking, and improper operation.
- (3) Windows and windshields- for deterioration and breakage.
- (4) Instruments- for poor condition, mounting, marking, and improper operation.
- (5) Flight and engine controls- for improper installation and improper operation.

(6) Batteries- for improper installation and improper charge.

Page 1 of 5

N98F AFTT:	WORK ORDER: 21-086	
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	(7)		ms- for improper installation, poor general condition, apparent and obvious defects, curity of attachment.
	d)		son performing an annual or 100 hour inspection shall inspect (where applicable) ents of the engine and nacelle group as follows:
	(1)	Engine s leaks.	ection- for visual evidence of excessive oil, fuel, or hydraulic leaks, and sources of such
	(2)	Studs an	d nuts- for improper torquing and obvious defects.
Nft	(3)	and sum	engine- for cylinder compression and for metal particles or foreign matter on screens p drain plugs. If there is weak cylinder compression, for improper internal condition and r internal tolerances.
	(4)	Engine n	nount- for cracks, looseness of mounting, and looseness of engine to mount.
NIA	(5)	Flexible	vibration dampeners- for poor condition, and deterioration.
	(6)	Engine c	ontrols- for defects, improper travel, and improper safetying.
	(7)	Lines, ho	ses, and clamps- for leaks, improper condition, and looseness.
	(8)	Exhaust	stacks- for cracks, defects, and improper attachment.
	(9)	Accesso	ries- for apparent defects in security of mounting.
	(10) All syste	ems- for improper installation, poor general condition, defects, and insecure attachment
	e)		rson performing an annual or 100 hour inspection shall inspect (where applicable) the g components of the landing gear group:
	(1)	All units	- for poor condition and insecurity of attachment.

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(2) Shock absorbing devices- for improper oleo fluid level.

N/R :	(3) Linkages, trusses, and members- for undue or excessive wear fatigue, and distortion.(4) Retracting and locking mechanism- for improper operation.
NIR	(5) Hydraulic lines- for leakage.
NJA	(6) Electrical system- for chafing and improper operation of switches.
NIR.	(7) Wheels- for cracks, defects, and condition of bearings.
~/A	(8) Tires- for wear and cuts.
MA	(9) Brakes- for improper adjustment.
·	(10)Floats and skis- for insecure attachment and obvious or apparent defects.
	(g) Each person performing an annual or 100 hour inspection shall inspect (where applicable) all components and systems that make up the complete empennage assembly for poor general condition, fabric or skin deterioration, distortion, evidence of failure, insecure attachment, improper component installation, and improper component operation.
	h) Each person performing an annual or 100 hour inspection shall inspect (where applicable) the following components of the propeller group:
w/4	(1) Propeller assembly- for cracks, nicks, binds, and oil leakage.
ns/A	(2) Bolts- for improper torque and safety wire.
N/A	(3) Anti-icing devices- for improper operation, and obvious defects.
n]/#	(4) Control mechanisms- for improper operation, insecure mounting, and restricted travel.

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i) Each person performing an annual or 100 hour inspection shall inspect (where applicable) the following components of the radio group:



(1) Radio and electronic equipment- for improper installation and insecure mounting.

(2) Wiring and conduits- for improper routing, insecure mounting, and obvious defects.

(3) Bonding and shielding- for improper installation and poor condition.

(4) Antenna including trailing antenna- for poor condition, insecure mounting, and improper operation.

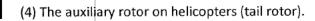
j) Each person performing an annual or 100 hour inspection shall inspect (where applicable) each installed miscellaneous item that is not otherwise covered by this listing for improper installation and improper operation.

k) Each person performing an inspection required by Part 91 on a rotorcraft shall inspect the following systems in accordance with the maintenance manual or Instructions for Continued Airworthiness of the manufacturer concerned:

(1) The drive shafts or similar systems.

(2) The main rotor transmission gear box for obvious defects.

(3) The main rotor and center section (or equivalent area).



I) Each person approving a reciprocating engine powered aircraft for return to service after an annual or 100 hour inspection shall, before that approval, run the aircraft engine, or engines, to determine satisfactory performance in accordance with the manufacturer's recommendations for:

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(1) Power output (static and idle rpm).

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N/+	(2) Magnetos.
NA	(3) Fuel and oil pressure.
NJR	(4) Cylinder and oil temperature.
	m) Each person approving a turbine powered aircraft for return to service after an annual, 100 hour, or progressive inspection shall, before that approval, run the aircraft engine, or engines, to determine satisfactory performance in accordance with the manufacturer's recommendations.
	n) 91.207 Emergency Locator Transmitter (ELT): The ELT required by paragraph "a" of this section, must be inspected within the last 12 months for:
	(1) Proper installation.
	(2) Battery: condition, expiration, corrosion, etc. MB氏、 このここ
	(3) Operation of controls and crash sensor.
	(4) The presence of sufficient signal.
	(5) Enter battery expiration and next due date into aircraft logbook.
	o) Review aircraft records for 337's and or STCs. Comply with applicable Instructions For Continued Airworthiness (ICW).
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