

Review of Airworthiness

Helicopter Check List Report



Operator		CAA ID:		Job No	
Date RA carried out		Facility and locn. where RA carried out			
Principle Maintainer		CAA ID:		IA Name:	
				CAA ID of IA	

Notes for use: Also refer to the Explanatory Notes on the last page of this form.

- Sections 1 to 10 are mandatory. Sections 11 to 15 are optional.
- Where an item is satisfactory select Y into the check box, if not applicable select N/A in the check box.
- Where an item is a defect, select N and enter the defect details in Section 9.
- All defects listed in Section 9 will require maintenance action prior to further flight in accordance with the requirements of rule 91.603(a)(4).

Date next Review due	
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Complete sign off on page 6

1. Aircraft Particulars	Reg. Mark: ZK-												
Standard Category	___		Restricted	___									
Special Category	___												
Experimental	___	Exhibition	___	Amateur	___	Primary	___	LSA	___	Limited	___		
Airframe				Engine(s)									
Manufacturer													
Model													
TCDS No.		Rev						Rev					
Serial No.													
TTIS	Hrs												
TSO Hrs/Calendar				Hrs/Cal					Hrs/Cal				
TIS recorder fitted at A/F hours		TIS recorder reading			Total hours from tech log			TIS recorder reading entered	___				
TIS recorder operational history	Tamper indication	___	Fault Indication	___	Remove/fit indication	___	Is there an hours discrepancy?	___					
Tachometer/Hobbs hour reading				Heater hour meter reading									
Maintenance programme	Part 115	___	Part 119	___	Part 91.607	___	Part 91.605	___	Manufacturers	___	TC (no support)	___	
Aircraft conforms to type certificate data sheets and acceptable design changes?											___		

2. Defects Observed (state "nil" if None)										Extra page(s) attached?	___	
No.	Description									Cleared?		

IA sighted rectification maintenance records?										___	All defects rectified?	___

3. Documents Carried in Aircraft (CAR 91.111)					
Airworthiness Certificate	Category(s):		Expiry date:		
Manufacturer's Flight Manual	Doc:		Rev:	Current?	___
CAA Flight Manual	AIR:		A/L:	Current?	___
	Applicable supplements in Flight Manual - log of supplements & amendment record sheet current?				___
Technical Log	Issue No:		Date:		
	All maintenance, including defects and inoperative equipment / MEL items, recorded on current Technical Log appropriately rectified or deferred?				___
91.619	Technical Log contains all required current information?				___
CAA 2129 Radio Station	Issue date:		Matches radio configuration?		___
CAA 2173 Weight & Balance	Issue date:		Date last weighed:	Current per logbook?	___
	Matches aircraft logbook?		___	Within limits and accurate?	
Certificate of Registration	Must be carried on NZ registered aircraft operating outside of NZ.				Carried? ___

4. Maintenance Logbooks		
CAA Logbooks?	___	If not using CAA logbooks, identify which logbooks are being used: _____

4.1 Aircraft Logbook (CAA 2101)		Leading particulars recorded correctly?	___
91.605(g)(1)	Operator	Current operator and maintenance programme correctly identified?	___
Section 1 91.605(a)	Scheduled Maintenance Record	All due maintenance performed at intervals specified?	___
Section 2	Service Record	Any ICAs for mods / role equipment included in programme?	___
		Escalation requirements being met?	___
Section 3	Maintenance Record	All due maintenance identified?	___
		Accurate, correctly recorded and completed?	___
		Transferred from Technical Log?	___
43.69			
43.105	Release-to-Service	All correctly completed, recorded and certified?	___
43.113	Duplicate Inspections	All carried out when required, recorded and certified?	___
43.103(a)(4)	Operational Flight Checks	All carried out when required, recorded and certified?	___

			Engine		
			L	R	
3.2 Engine (CAA 2158) Logbooks		Leading particulars recorded correctly?		___	___
91.605(a)	Operator	Current operator and maintenance programme correctly identified?	___	___	___
91.603(c)	Overhaul Periods	TBO/Calendar overhaul periods within limits?	___	___	___
Section 1	Service Record	All due maintenance identified?	___	___	___
		Any ICAs for modifications/role equipment included in programme?	___	___	___
		Escalation requirements being met?	___	___	___
Section 2	Maintenance Record	Accurate, correctly recorded and completed?	___	___	___
43.105	Release-to-Service	All correctly completed, recorded and certified?	___	___	___
43.113	Duplicate inspections	All carried out when required, recorded and certified?	___	___	___
43.115	Engine performance checks	Performed and recorded per manufacturer's requirements?	___	___	___
Section 3	Engine Component Record	All recorded and within limits (including overhaul)?	___	___	___
2158 Section 4 2110 Section 3	ADs	All current & applicable, assessed, recorded & certified?	___	___	___
	ADs (repetitive)	All current & applicable, assessed, recorded & certified?	___	___	___
2158 Section 5 2110 Section 4	Manufacturers/Vendor Service Information Record	All correctly completed, recorded and certified?	___	___	___
2158 Section 6 2110 Section 5	Modification/STC Record	All correctly completed, recorded and certified?	___	___	___

3.3 Aircraft Airworthiness Directives, Aircraft Modification, Engine and Propeller Installations (CAA 1464)									
Section 1	ADs		All current & applicable to the aircraft. Assessed, recorded & certified?					___	
Section 2	Manufacturers/Vendors' Service Information		All maintenance performed or assessed in response to manufacturer's service information. Appropriately recorded?					___	
Section 3	Modification/STC Record		All currently installed onto the aircraft and its components. Appropriately recorded and certified? (Refer also Section 5 this form, below)					___	
Section 4	Record Engines installed		Current?					___	
Section 5	Repetitive ADs		All current & applicable to the aircraft. Assessed, recorded & certified?					___	
Section 6	Repetitive Out of Phase		All applicable checks / inspections carried out, recorded & certified?					___	
	91.605	Radio station	___	Alt sys & reporting equip	___	Compass swing	___	First aid kit	___
		ELT battery	___	Floatation equipment	___	CO Detector	___	C of G/Weighing	___
		Fire Extinguisher(s)	___	SSR transponder	___	ELT	___		___
	Manufacturer's inspections		Special inspections carried out and recorded?					___	
			Calendar inspections carried out and recorded?					___	
			Aging aircraft program requirements carried out and recorded?					___	
Section 7	Record of lifed components installed		All recorded and within limits (including overhaul)?					___	
Section 8 91.605(e)(9) & (10)	Weight & Balance		Summary correct? (refer also Section 2 of checklist)					___	
	Empty weight:							___	
	Arm:							___	
	Moment:							___	

5. Part 39 – Airworthiness Directive Status (Appropriate for components currently installed)			
Helicopter General	DCA/HELI/1	thru	—
Airframe	DCA/	thru	—
Engine General	DCA/ENG/1	thru	—
Engine(s)	DCA/	thru	—
Electrical Equipment – Reciprocating Engines	DCA/ELECT/1	thru	—
Role Equipment – Helicopters	DCA/EQUIP/1G	thru	—
Aircraft Seats and Harness	DCA/SEAT/1	thru	—
Avionics	DCA/RAD/1	thru	—
Brakes and Wheels	DCA/BRAKE/1	thru	—
Carburettors and Injection Systems	DCA/MA/1	thru	—
Electrical Equipment – Aircraft General	DCA/ELECT/3C	thru	—
Emergency Equipment	DCA/EMY/1	thru	—
Fuel System Equipment	DCA/FS/1A	thru	—
Instruments and Automatic Pilots	DCA/INST/1	thru	—
Any current AMOCs – List using 4 digit ID number			

5. STCs, Modifications or Repairs recorded since the last Review (state nil if None)			
STC, Modification or Repair Ref. No.	Description	Date Incorporated	Release to Service LAME or Authorisation No.
All STCs, modifications & repairs correctly recorded, certified and applicable technical data iaw Part 21 App. D stated.			—
Have ICAs been included into the Maintenance Programme & identified in Logbook CAA 1464 Section 3?			—

7. Aircraft Physical Inspection							
Satisfactory		Satisfactory		Satisfactory		Satisfactory	
Fuselage	___	Control Surfaces	___	Systems	___	Powerplant	___
Tail Boom	___	Tail Rotor	___	Avionics	___	Controls	___
Main Rotor	___	Cabin/cockpit	___	Electrics	___	Gearboxes & Drives	___
Landing Gear	___	Instrument Panel	___	Safety Equipment	___	Modifications	___
						Refer remarks over page	
7.1 General Condition Inspection		Aircraft is in satisfactory condition?					___
7.2 Inoperative Equipment		Physical check that placarding is correct?					___
7.3 Overhaul and finite life components		Physical check/verification, where practicable, of Serial No's correct?					___
7.4 Aircraft Identification and Placards		Type Certification ID plate fitted per 21.191?					___
		Aircraft markings correct per 47.101?					___
		Stainless steel identification plate fitted per 47.119?					___
		Placards required by Part 26, Part 91, and Flight Manual (including supplements) fitted and legible?					___

8. Part 91 Subpart F – Instruments and Equipment Requirements		
91.503	Location of instrument and equipment	___
91.505	Seating and restraints	___
91.507	Passenger information signs	___
91.509	Minimum instruments and equipment	___
91.511	Night VFR instruments and equipment	___
91.513	VFR communication equipment	___
91.515	Communication and navigation equipment – VFR over water	___
91.517	IFR instruments and equipment	___
91.519	IFR communication and navigation equipment	___
91.521	Category II and III precision approach equipment	___
91.523	Emergency equipment	___
91.525	Flights over water	___
91.527	Aircraft operations on water	___
91.529	Emergency locator transmitter	___
91.531	Oxygen indicators	___
91.533	Supplemental oxygen for non-pressurised aircraft	___
91.535	Supplemental oxygen for pressurised aircraft	___
91.541	SSR transponder and altitude reporting equipment	___
91.543	Altitude alerting system or device – turbojet or turbofan	___
91.545	Assigned altitude indicator	___
All required instruments and equipment fitted and airworthy. Yes?		___

9. Remarks		Extra page(s) attached?

10. Certification (Review cannot be certified with open defects)

Confirm Review certified in aircraft logbook.	___	Signature: (Information in this form is true and accurate)		Dated	
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When saving the file to email please name as: 'RA for ZK-XXX 20XX'

Send this completed report form to:

CAA, PO Box 3555, Wellington 6140	Email: ARA@caa.govt.nz	Fax: +64 4 569 2024
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11. IA's follow up actions (Not mandatory to complete this section, refer Explanatory Notes overleaf)

43.153(c)	Uncleared defects recorded in Technical Log and Aircraft Logbook	___
43.155(a)(1)	Review certification entered into Aircraft Logbook - <i>Note: useful to include next Review due date with certification</i>	___
43.155(a)(3)	Enter due date of next Review in Technical Log	___
43.155(a)(4)	Certified checklist report sent to CAA within 7 days of certification	___
	OR – if Review not certified, sent to CAA within 7 days of the 30 day expiry period	___

12. Part 91 Appendix A – Instrument and Equipment Specifications (Refer Explanatory Notes – page 8)

A.1	Markings and placards	___	A.14	Emergency equipment	___
A.2	Fuel and oil markings	___	A.15	Emergency locator transmitters	___
A.3	Seating	___	A.16	Oxygen	___
A.4	Restraints	___	A.17	Passenger oxygen masks	___
A.5	Child restraint systems	___	A.18	Crew members on-demand oxygen masks	___
A.6	Aircraft lights	___	A.19	Oxygen equipment	___
A.7	Aircraft time-in-service recorders	___	A.20	Protective breathing equipment (PBE)	___
A.8	Pressure altimeters	___	A.21	Crew member portable PBE	___
A.9	Communication and navigation equipment	___	A.22	Transponder equipment	___
A.11	Category II and III equipment	___	A.23	Altitude encoder equipment	___
A.12	First aid kits	___	A.24	Altitude alerting system or device	___
A.13	Fire extinguishers	___			

13. Part 135 Subpart F – Instruments and Equipment (Refer Explanatory Notes overleaf)

135.355	Seating and restraints	___	135.361	Instrument flight rules	___
135.357	Additional instruments	___	135.363	Emergency equipment	___
135.359	Night flight	___			

14. Part 137 Subpart F – Instruments and Equipment (Refer Explanatory Notes overleaf)

137.255	Seating and restraints	___	137.259	Additional equipment	___
137.257	Additional instruments	___			

15. Recent maintenance providers/LAME's (Optional: Refer Explanatory Notes overleaf)

Explanatory notes for completing the Helicopter RA Checklist Report

General, for all sections:

- enter a **Y** in the appropriate column to indicate that the aircraft meets the applicable CAR requirements, or
- enter **N/A** if the requirement is not applicable to the aircraft or operation, or
- where an item is a defect, enter **N** and enter the defect details in Section 9.

Section 1

The type certificate data sheet (TCDS) that the aircraft was type accepted into New Zealand under should be referred to, if applicable. These are listed on AC21-1.2. List the airframe, engine and propeller TCDS numbers and ensure that the aircraft conforms with its type certificate.

Automatic time in service recorder required by 91.509(b) – enter details only when a time in service recorder is fitted.

Maintenance programme – refer 91.605(a) – the aircraft must be maintained to either an approved maintenance programme, the manufacturer's programme or an acceptable programme as applicable.

Section 2

All defects listed in this section will require a clearing maintenance action prior to further flight in accordance with the requirements of Part 91.603.

The IA must sight satisfactory certified maintenance entries for all defects prior to certifying the Review.

Section 3

Refer to the CAA web site, www.caa.govt.nz, "Aircraft" page for details of the latest manufacturer's flight manual and current CAA flight manual revision status. Titles of approved modifications and STCs are also provided.

Flight manual supplements – a copy of all supplements applicable to the fitted aircraft equipment must be kept in the flight manual.

Section 4

Alternative maintenance logbooks other than CAA 2101, CAA 2158, CAA 2110 or CAA 1464 may be used. However, any alternative maintenance logbook must be acceptable to CAA.

L and R columns have been provided for twin engine aircraft. For single engine aircraft, use either column.

Optional to complete listed individual CAA required inspections tick boxes

Section 5

Identify the airworthiness directive range for each type of component that has been recorded and certified in either the CAA 2158, CAA 2110 or CAA 1464. Also list any applicable AMOCs (using their 4 digit ID number)

Section 3 of this form also contains the check that the latest revision of each airworthiness directive has been recorded and certified in the appropriate logbooks.

The IA must check that the airworthiness directive record relates to the actual components fitted. Any airworthiness directives applicable to components replaced since the last Review must have been considered.

Section 6

List all modifications/repairs embodied since the last Review and check that any applicable conformity inspections have been carried out by an appropriately authorised person.

Section 7

Optional to complete listed individual physical inspection tick boxes providing 6.1 box competed.

It is recommended that the IA retains a list of sampled overhaul and finite lifed components checked.

Aircraft markings – general exemption 98/EXE/69 applies provided that the aircraft has not been painted, repainted or remarked after 9 January 1998.

Section 8

Optional to complete listed individual required Instrument and Equipment tick boxes providing bottom box competed

Beside each item:

- enter a **Y** to indicate that the item is present and the condition of the item is satisfactory, or
- enter **N/A** if the requirement is not applicable to the aircraft or operation, or
- where an item is a defect, enter **N** and enter the defect details in Section 9.

Section 9

List any appropriate remarks in this section, other than defects observed.

Section 10

If completing this report electronically, state in the signature block "Certified in logbook"

Section 11

This section is an optional administrative checklist for the IA.

Section 12 to 14

These sections are optional. Relevant section(s) should be completed if any of the affected instruments or equipment have been replaced, or the aircraft role has changed within the last 12 months.

Section 15

Should be completed if the aircraft has had multiple maintenance providers since the last RA.