

Part 66 review of airworthiness (including special category) — aeroplane checklist report



Operator		CAA ID no.		Job no.	
Date RA carried out		Facility and location where RA carried out			
Principal maintainer				CAA ID no.	
IA name				CAA ID no.	

Notes for use: also see explanatory notes on the last page of this form

- Where an item is satisfactory select Y into the tick box, if not applicable select N/A
- All defects require maintenance action before further flight in accordance with the requirements of rule 91.603(a)(4)
- Sections 11 to 15 of this form are optional
- Send completed report form to ara@caa.govt.nz

Date next review due

Complete sign-off on page 6

1. Aircraft particulars		Reg. Mark: ZK					
Standard category		<input type="checkbox"/>	Restricted		<input type="checkbox"/>		
Special category		<input type="checkbox"/>					
Experimental	<input type="checkbox"/>	Exhibition	<input type="checkbox"/>	Amateur	<input type="checkbox"/>	Primary	<input type="checkbox"/>
LSA	<input type="checkbox"/>	Limited	<input type="checkbox"/>				
Airframe		Engine(s)		Propeller(s)			
Manufacturer							
Model							
TCDS no.	Rev		Rev		Rev		
Serial no.							
TTIS	hrs						
TSO Hrs/Calendar			Hrs/Cal	Hrs/Cal	Hrs/Cal	Hrs/Cal	
Tachometer/Hobbs hour reading				Heater hour meter reading			
Maintenance programme (Select one)	Part 115 <input type="checkbox"/>	Part 91.607 <input type="checkbox"/>	Part 91.605 <input type="checkbox"/>	Manufacturers <input type="checkbox"/>	TC (no support) <input type="checkbox"/>	GNZ TC22 <input type="checkbox"/>	
Aircraft conforms to type certificate data sheets and acceptable design changes?							___

2. Defects observed (see explanatory note 2 on last page)		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	Document		Revision		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	All maintenance due identified?	___
		Any ICAs for mods / role equipment included in programme?	___
		Escalation requirements being met?	___
Section 3	Maintenance record	Accurate, correctly recorded and completed?	___
43.69		Transferred from technical log?	___
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		Prop	
			L	R	L	R
4.2 Engine (CAA 2158) & propeller (CAA 2110) logbooks			Leading particulars recorded correctly?			
91.605(a)	Operator	Current operator & maintenance programme correctly identified?	___	___	___	___
91.603(c)	Overhaul periods	TBO/Calendar overhaul periods within limits?	___	___	___	___
Section 1	Service record	All maintenance due 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?	___	___		

			Engine		Prop	
			L	R	L	R
Section 3	Engine component record	All recorded and within limits (including overhaul)?	___	___		
43.115	Propeller calendar inspections	Performed, recorded & certified per AC?			___	___
2158 Section 4 2110 Section 3	ADs (including prop governor)	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?	___	___	___	___

4.3 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? (also see section 5 of this form) ___				
Section 4	Record engine/propellers. 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	___
	ELT battery	___	Floataion equipment	___	CO Detector	___
	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? (also see Section 2 of this checklist) ___				
	Empty weight					
	Arm					
	Moment					

5. Part 39 – Airworthiness directive status (appropriate for components currently installed)

Aircraft general	DCA/GEN/5A	thru	___
Airframe	DCA/	thru	___
Gliders general	DCA/GLIDER/1	thru	___
Engine general	DCA/ENG/1	thru	___
Engine(s)	DCA/	thru	___
Electrical equipment – reciprocating engines	DCA/ELECT/1	thru	___
Propeller(s)	DCA/	thru	___
Woodward propeller governors	DCA/WOOD/101	thru	___
Role equipment – aeroplanes	DCA/ROLE/1	thru	___
Aircraft seats and harness	DCA/SEAT/1	thru	___
Avionics	DCA/RAD/1	thru	___

5. Part 39 – Airworthiness directive status (appropriate for components currently installed)				
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 no.				

6. 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	___	Power plant	___
Wings	___	Controls	___	Avionics	___	Propellers	___
Empennage	___	Cabin/cockpit	___	Electrics	___	Modifications	___
Landing gear	___	Instrument panel	___	Safety equipment	___	See 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	___

8. Part 91 Subpart F – Instruments and equipment requirements		
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)	X	Dated

When saving this file to email, please name as: 'RA for ZK-XXX 20XX'

Send this completed report form to ara@caa.govt.nz

11. IA's follow up actions (not mandatory to complete this section, see explanatory notes on last page)		
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	___

12. Part 91 Appendix A – Instrument and equipment specifications (see explanatory notes on last page)

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 (see explanatory notes on last page)

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 (see explanatory notes on last page)

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

15. Recent maintenance providers / LAME's (optional: see explanatory notes on last page)

Explanatory notes for completing the Aeroplane Review 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

Section 1

The type certificate data sheet the aircraft was type accepted into NZ under should be referred to, if applicable. See list in AC21-1.2. List the airframe, engine and propeller TCDS numbers and ensure 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 – see 91.605(a) – the aircraft must be maintained to either an approved maintenance programme, the manufacturer's programme or an acceptable programme as applicable. See AC91-14.

Section 2

The person performing the review of airworthiness must record any new defects identified during the review in the technical log and in the appropriate maintenance logbook. Ref CAR43.153(c)

All defects require a clearing maintenance action before further flight – see Part 91.603.

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

Section 3

Refer to the relevant manufacturers data for the latest flight manual revision status.

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 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 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 completed.

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 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 completed.

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 2.

Section 9 List any appropriate remarks in this section, other than defects observed.

Section 10 If completing this report electronically, state 'Certified in logbook' in signature block or add signature picture.

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.