

MD – RA

Minister's Delegates - Recreational Aviation
Représentants du Ministre - Aviation de loisir

Inspection Service

Service d'inspection

**MDRA C20 MANUAL of PROCEDURES for INSPECTION of METAL, TUBE, FABRIC and WOOD
AMATEUR-BUILT AIRCRAFT, INSPECTION AND TECHNICAL INFORMATION RECORD**

BUILDER <input type="checkbox"/> IMPORTER <input type="checkbox"/>		MD-RA REGISTRY NUMBER:	
SURNAME:		GIVEN NAME(S)	
ADDRESS:			
CITY:		PROVINCE:	POSTAL CODE:
HOME TELEPHONE:		FACSIMILE:	
BUSINESS TELEPHONE:		EMAIL:	
REGISTRATION MARKS C-		CERT OF REGISTRATION DATE:	
A/C MAKE:	MODEL:	SERIAL NO.:	
PRESSURIZED <input type="checkbox"/>	PISTON ENGINE <input type="checkbox"/>	TURBINE <input type="checkbox"/>	
MAXIMUM TAKE-OFF WEIGHT _____ Lb <input type="checkbox"/> Kg <input type="checkbox"/>			
WOOD <input type="checkbox"/>	METAL <input type="checkbox"/>	TUBE/FABRIC <input type="checkbox"/>	
OWN DESIGN <input type="checkbox"/>		FROM PLAN <input type="checkbox"/>	
LISTED ON TCA/FAA ELIGIBLE KITS LIST <input type="checkbox"/>		KIT REQUIRING MAJOR PORTION, (51%) INSPECTION <input type="checkbox"/>	
QUICK BUILT KIT <input type="checkbox"/>			
DATE CONSTRUCTION STARTED:		DATE CONSTRUCTION COMPLETED:	
NAME of DESIGNER or SOURCE of PLANS, KIT and/or MATERIALS (ATTACH LIST IF REQUIRED):			
ADDRESS:			
CHANGE OF OWNERSHIP <input type="checkbox"/> OR ADDRESS <input type="checkbox"/>		DATE:	
SURNAME:		GIVEN NAME(S)	
ADDRESS:		CITY:	
PROVINCE:	POSTAL CODE:	TELEPHONE:	

RECORD OF INSPECTIONS

Job number	Type	Inspector Name (Print)	Obs. Sheet No.	Date	Signature

The builder must be present for the inspection

Section 1.0 GENERALITIES

1. Will the builder be incorporating any modifications to the structure which will affect flight, structural integrity of the aircraft, or eligibility for aerobatic waiver? (Y N)
If yes, give details below.

1. Is the builder using professional assistance? (Y N)
If yes, provide:

Contractor Name: _____ Telephone _____

2. What work is subject to assistance? (List below)

(Y) - Indicates compliance with requirements for Amateur Built aircraft contained in the applicable sections of CARs and the exemption from section 549.01 of the Canadian Aviation Regulations and Chapter 549 of the airworthiness manual - airworthiness standards-amateur -built aircraft.

(N) - Indicates non-compliance. State nature of discrepancy under "Notes"

(N/A) - Indicates not applicable.

Section 1.1 COMPLIANCE WITH AMATEUR-BUILT REQUIREMENTS

1. Has the builder filed a Letter of Intent? (Y N)
2. Is an Amateur Built Information Package available? (Y N)
3. Is the builder familiar with the applicable legislation? (Y N)
4. Does the aircraft gross weight comply with the weight specified by the aircraft designer and / or kit supplier? (Y N)
5. Does the aircraft wing loading indicate high performance? (Y N)
6. Will the builder be requesting an Aerobatic Waiver? (Y N)
7. Does the aircraft meet aerobatic design requirements? (Y N)
8. Is the builder familiar with special inspection requirements? (Y N)
9. Will the aircraft be built from a kit (Y N)
10. Does the builder have copies of applicable newsletters or other pertinent information from the kit supplier? (Y N)
11. Does the project meet major portion requirements? (Y N)
12. Does the builder have "Acceptable Methods, Techniques and Practices" (AC 4313 1B or latest amendment) (Y N)
13. Has the builder established a project record system? (Y N)
14. Are drawings available? (Y N)
15. Is the shop adequately heated and does it provide the proper environment for the construction of the project? (Y N)

Summary, Compliance with Amateur-Built Requirements:

Has builder been notified of your findings? On site? By Mail?

White Copy of MDRA C21 Inspection Sheet – number _____

Date - _____ Inspector's Signature _____ Print Name _____
yyyy-mm-dd

End of Section 1.1 Use the space below for notes if required

Section 1.2 SUB-ASSEMBLY (EG- BOX SPAR) INSPECTION,

(Do not use this section for pre-cover inspections)

- 1. List parts inspected:
- 2. Type of structure and materials:
- 3. What is material quality?
- 4. Does builder have invoices for materials? (Y N)
- 5. Do parts conform to drawings- dimensions, material? (Y N)
- 6. Are interiors of box sections treated against deterioration? (eg zinc chromate, varnish, etc.) (Y N)
- 7. Is proper ventilation and drainage provided in all closed sections? (Y N)
- 8. Is craftsmanship to accepted practice (excess glue, fit, etc_)? (Y N)
- 9. How were alignment and symmetry assured? (jigs, trammels, etc)
Explain:

- 10. What provision has been made to allow testing of weld and glue samples?
Explain:

- 11. Have all relevant data been entered in project files? (Y N)

Summary, Sub-Assembly (Eg- Box Spar) Inspection:

Re-inspection of following is required: None

Has builder been notified of your findings? On site? By Mail?

Date - _____ Inspector's Signature _____ Print Name _____
yyyy-mm-dd

End of Section 1.2 Use the space below for notes if required

Section 1.3 PRE- COVER INSPECTION

GENERAL

List parts inspected:

Type of structure and materials:

What is material quality?

What provision has been made to allow for testing of glue and/or weld samples?

1. Have all Box Sections been inspected previously? (Y N)
2. Have all discrepancies from previous Box Section or pre- cover inspections been rectified? (Y N)
3. Does builder have invoices for materials? (Y N)
4. Do parts conform to drawings with respect to dimensions and material? (Y N)

FUSELAGE (HULL)

1. Are welded parts to accepted practice (Y N)
2. Are all attachment fittings to accepted practice? (Y N)
3. Are all drilled holes properly located, free from elongation and are all interiors treated for protection from environmental deterioration? (Y N)
4. Is venting and drainage provided and are there any moisture traps evident? (Y N)
5. Are all surfaces protected against environmental deterioration? (Y N)
6. Is all attachment hardware employed and safely tied? (Y N)
7. Are rivets, where employed, of proper type (ref dwgs) and suitably installed? (Y N)
8. Is sheet metal fabrication to accepted practice? (Y N)
9. Are fittings fabricated to acceptable practice and do they conform to dwgs? (Y N)
10. Has builder assured alignment and symmetry? (Y N)
11. Is craftsmanship to accepted practice? (Y N)

MAINPLANE (WINGS)

1. Are all drilled holes properly located, free from elongation? (Y N)
2. Are all interiors treated for protection from environmental deterioration? (Y N)
3. Are all surfaces protected against environmental deterioration? (Y N)
4. Are all compression members secure and free of bends or other apparent defects? (Y N)
5. Has provision been made against chafing of drag and anti-drag wires? (Y N)
6. Has builder assured symmetry? (Y N)
7. Is craftsmanship to accepted practice? (Y N)
8. Have provisions been made for drainage and ventilation? (Y N)
9. Is all attachment hardware employed and safely tied? (Y N)
10. Have all bays been trammed? (Y N)

CONTROL SURFACES

- 1. Are all drilled holes properly located and free from elongation (Y N)
- 2. Are interiors treated for protection against environmental deterioration? (Y N)
- 3. Are all surfaces protected against environmental deterioration? (Y N)
- 4. Is craftsmanship to accepted practice? (Y N)
- 5. Have provisions been made for drainage and ventilation? (Y N)
- 6. Is all attachment hardware employed and safely tied? (Y N)
- 7. Has builder assured symmetry? (Y N)

UNDERCARRIAGE

- 1. Type: Wheels Skis Floats
- 2. Is undercarriage complete? (Y N)
- 3. Is undercarriage installed? (Y N)
- 4. Are all attachment fittings installed and safely tied? (Y N)
- 5. Are brake plumbing, components, and all attachment hardware employed and safely tied? (Y N)
- 6. Has undercarriage symmetry been assured? (Y N)

SAILPLANE

- 1. Is tow hook installed? (Y N)
- 2. Tow hook attachment OK? (Y N)
- 3. Is tow hook properly located in reference to data? (Y N)

SUMMARY, Pre-Cover Inspection:

Re-inspection of following is required: None

Has builder been notified of your findings? On site? By Mail?

Date - _____ Inspector's Signature _____ Print Name _____
 yyyy-mm-dd

End of Section 1.3 Use the space below for notes if required