TCDS (IM).A.294 ISSUE 02, 23 Apr 2010

European Aviation Safety Agency

TYPE-CERTIFICATE

DATA SHEET

Husky A-1

Type Certificate Holder: Sky International Inc.

672 South Washington Street

Afton, Wyoming 83110

USA

Manufacturer: Sky International Inc.

672 South Washington Street

Afton, Wyoming 83110

USA

For variants: A-1

A-1A

A-1B

A-1C-180

Issue 1: Initial Issue; 31 January 2008

Issue 2: Update to include A-1C-180; 23 Apr 2010

List of effective Pages:

Page	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
Issue	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	

General for all models

Data Sheet No.: (IM).A.294

1. Type A-1

2. Airworthiness Category Normal Category

3. Type Certificate Holder: Sky International Inc.

672 South Washington Street

Afton, Wyoming 83110

USA

4. Type Certificate Ownership Record: Christen Industries since 4. April 1991

Aviat, Inc. from 4 April 1991 to 3. December 1992 White International, LTD. from 3. December 1992 to

10. January 1996

5. Manufacturer: Under license agreement by Sky International, Inc. for

Manufacturing and obtaining airworthiness certificate:

Aviat Aircraft Inc. P.O.Box 1240

672 South Washington Street

Afton, Wyoming 83110

USA

Section A: Model A-1

A.I. General

Data Sheet No.: (IM).A.294 Issue: 1 Date: 31 January 2008

1. a) Type A-1 b) Variant A-1

FAA Certification Date:
 May 1987

A.IICertification Basis

1. (reserved)

2. (reserved)

3. Certification Basis: Part 23 of Federal Aviation Regulations

4. Airworthiness Requirements: Part 23 of Federal Aviation Regulations dated 1. February

1965, Amendment 23-1 thru 23-31

5. Requirements elected to comply: None

6. EASA Special Conditions: None

7. EASA Exemptions: None

8. EASA Equivalent Safety Findings: None

9. EASA Environmental Standards: ICAO, Annex 16, Volume 1

A.III Technical Characteristics and Operational Limitations

1. Type Design Definition: Master Drawing List Model A-1

2. Description: single piston engine, two-seats, steel cage construction,

high wing monoplane with conventional tail and tail wheel

3. Equipment: refer to AFM

4. Dimensions: refer to AFM

5. Engines:

Lycoming O-360-C1G or Lycoming O-360-A1P

(see Note 2)

Engine Limits For all operations, 2700 RPM

6. (reserved)

7. Propellers: Hartzell HC-C2YK-1Bf/F7666A (Constant Speed)

Diameter not over 76 in., not under 72 in.

Hartzell spinner assy 836-60 and governor V3-6

Avoid continuous operations between 2000-2250 RPM

8. Fluids:

8.1 Fuel 100/100LL minimum grade aviation gasoline

8.2 Oil refer to AFM

9. Fluid capacities

9.1 Fuel: Standard Fuel Tank Total: 196,8 Litre

Usable: 189,2 Litre

9.2 Oil: engine external oil tank Maximum: 7,6 Litre

10. Air Speeds:

Design Manoevring Speed V_A : 82 KIAS (94 mph) Flap Extended Speed V_{FE} : 63 KIAS (73 mph) Maximum Structural Cruising Speed V_{NO} : 103 KIAS (119 mph) Never Exceed Speed V_{NE} : 133 KIAS (153 mph)

11. Maximum Masses:

Take-off 816 kg (1800 lbs)

12. Centre of Gravity Range:

Forward limit from +189,2 to + 199,1 cm at 816 kg

from +184,2 to +199,1 cm at 680 kg

13. Datum: 152,4 cm forward of wing leading edge

14. (reserved)

15. Levelling Means: Cabin door, lower sill

16. Minimum Flight Crew: 1 (Pilot)

17. Maximum Passenger Seating Capacity: 1

18. (reserved)

19. Baggage / Cargo Compartments

Max. Allowable Load 22,7 kg (at +304,8 cm)

A.IV Operating and Service Instructions

Airplane Flight Manual (AFM) Model A-1 dated 1/5/87 or later approved revision

Maintenance Manual (MM) MM for Model A-1

A.V Notes

 This certification applies to serial numbers 1001 to 1394 of A-1 Series under Production Certificate 704NM

- 2. Aircraft incorporating the Lycoming O-360C1G engine are certified for use with a 72 inch dia. Propeller, VFR day and night only, and 2550 RPM max. continuous power, with 2700 RPM max. take-off power for 5 minutes. Aircraft incorporation the Lycoming 0-360-A1P engine are certified for use with a 72 inch dia. Propeller and be limited to 2400 RPM max. continuous power and 2700 RPM max. continuous take-off power for 5 minutes. Aviat Aircraft Inc. Flight Manual Supplement dated December 1, 1994 or later FAA approved revision is then required.
- 3. Model A-1 are approved for use with Aero Ski Models M1500, M1800, M2000, and M3000H installed per Christen Drawing 35569. Christen Airplane Flight Manual Supplement, dated April 11, 1988, or later FAA approved revision for fixed ski operation is required.
- 4. The Model A-1 is approved for banner and glider towing when a approved tow hook is installed in accordance with Aviat Drawing 35572. Aviat Aircraft Flight Manual Supplement, dated September 1, 1988, or later FAA approved revision for banner and glider tow operations is required.
- 5. The Model A-1 is approved for use with EDO 89-2000 Floats installed in accordance with Christen Drawing 35600. Christen Aircraft Flight Manual Supplement, dated February 28, 1989, or later FAA approved revision for the floatplane configuration is required. The maximum aircraft gross weight with EDO 89-2000 floats installed is 898 kg.
- 6. Models A-1 are approved for use with Aero Ski Models R2800 retractable ski installed per Christen Drawing 35593. Christen Airplane Flight Manual Supplement, dated Nov 7, 1989, or later FAA approved revision for retractable ski operation is required.
- 7. Model A-1 are approved for use with optional skylight panel installed in accordance with Aviat Aircraft Inc. drawing 35640.
- 8. Model A-1 is approved for use with Horizon Instruments Model P-1000 Digital Engine Tachometer. Aviat Aircraft Inc. Flight Manual Supplement date Dec. 4, 1997 or later FAA approved revision is required.
- 9. The following main gear tires are approved for use on Model A-1:

6.00 x 6 4-ply Type III tube

8.00 x 6 4-ply Type III tube.

8.50 x 6 6-ply Type III tube.

24 x 10-6 Type III Tundra

26 x 10.5-6 Tundra and 8.50 x 6 tube.

- 10. Model A-1 are approved for use with the Alaskan Bushwheel P/N 31136, 31" Diameter Tundra tire. Model A-1 must have the Aero Ski gear P/N 35017-503 and 35017-504 installed in conjunction with the 31" tundra tires P/N 31136. The Scott 10" Model L3450 tail wheel must also be installed per Aviat Aircraft Drawing 35340 on the model A-1. FAA approved Flight Manual Supplement dated September 18, 1998 or later for the Tundra Tire configuration is required.
- 11. Models A-1 are approved for use with the Vision Microsystems Inc. VM1000 Engine Monitoring System when installed in accordance with Aviat Master Drawing List 95-0, dated 25 October 1999. Operation and maintenance in accordance with FAA Approved Airplane Flight Manual Supplement for the Vision Microsystem VM1000 Engine Monitoring System, dated 18 August 1999 and Supplemental Instructions for Continued Airworthiness VM1000 Engine Monitoring System, dated 5 August 1999, or later revisions, are required.
- 12. Models A-1 are approved for use with the Vision Microsystems Inc. VM1000 Engine Monitoring System with IFR equipment when installed in accordance with Aviat Master Drawing List 95-0, Revision A dated 25 October 1999. Operation and maintenance in accordance with FAA Approved Airplane Flight Manual Supplement for the Vision Microsystems VM1000 Engine Monitoring System, dated 18 August 1999 and Supplemental Instructions for Continued Airworthiness VM1000 Engine Monitoring System, Revision B dated 5 August 1999, or later revisions, are required.
- 13. Models A-1 are approved for use with the Aviat Aft Stowage Compartment when factory-installed in accordance with Aviat Master Drawing List 96-00-00, Revision F dated 5/28/2000, or field

- installed per Aviat Service Bulletin 16, dated 4/19/2000 as Aviat Kit A-1-351 Revision D. Operation and maintenance in accordance with FAA Approved Airplane Flight Manual Supplement for Models A-1 with the Aft Stowage Compartment Installed, dated 4/28/2000 and Supplemental Instructions for Continued Airworthiness Aft Stowage Compartment, dated 4/17/2000, or later revisions, are required.
- 14. Models A-1 are approved for use with the Fluidyne Model C-2200 Retractable Skis when installed in accordance with Aviat Husky Service Bulletin 15, Fluidyne C-2200 Retractable Ski Installation and Operation; A-1/A-1A Forward CG Expansion, dated 6/14/1999. Operation and maintenance in accordance with FAA Approved Airplane Flight Manual Supplement for Fluidyne Skis, dated 6/25/1999 and Supplemental Instructions for Continued Airworthiness Fluidyne C2200 Retractable Skis, dated 6/25/1999, or later revisions, are required.

Section B: Model A-1A

B.I. General

Data Sheet No.: (IM).A.294 Issue: 1 Date: 31 January 2008

1. a) Type A-1 b) Variant A-1A

FAA Certification Date:
 28. January 1998

B.II Certification Basis

1. (reserved)

2. (reserved)

3. Certification Basis: Part 23 of Federal Aviation Regulations

4. Airworthiness Requirements: Part 23 of Federal Aviation Regulations dated 1. February

1965, Amendment 23-1 thru 23-31

5. Requirements elected to comply: None

6. EASA Special Conditions: None

7. EASA Exemptions: None

8. EASA Equivalent Safety Findings: None

9. EASA Environmental Standards: ICAO, Annex 16, Volume 1

B.III Technical Characteristics and Operational Limitations

1. Type Design Definition: Master Drawing List Model A-1A

2. Description: single piston engine, two-seats, modified steel cage

construction, high wing monoplane with conventional tail

and tail wheel

3. Equipment: refer to AFM

4. Dimensions: refer to AFM

5. Engines:

Lycoming O-360- A1P

(see Note 2)

Engine Limits For all operations, 2700 RPM

6. (reserved)

7. Propellers: Hartzell HC-C2YK-1Bf/F7666A (Constant Speed)

Diameter not over 76 in., not under 72 in.

Hartzell governor V3-6

Avoid continuous operations between 2000-2250 RPM

8. Fluids:

8.1 Fuel 100/100LL minimum grade aviation gasoline

8.2 Oil refer to AFM

9. Fluid capacities

9.1 Fuel: Standard Fuel Tank Total: 196,8 Litre

Usable: 189,2 Litre

9.2 Oil: engine external oil tank Maximum: 7,6 Litre

10. Air Speeds:

Design Manoevring Speed V_A : 86 KIAS (99 mph) Flap Extended Speed V_{FE} (S/N 1395 to 1429) 63 KIAS (73 mph) Flap Extended Speed V_{FE} (S/N 1430 and up) 70 KIAS (80 mph) Maximum Structural Cruising Speed V_{NO} : 103 KIAS (119 mph) Never Exceed Speed V_{NE} : 133 KIAS (153 mph)

11. Maximum Masses:

Take-off 857 kg (1890 lbs)

12. Centre of Gravity Range:

Forward limit from +189,2 to + 199,1 cm at 857 kg

from +184,2 to +199,1 cm at 680 kg

13. Datum: 152,4 cm forward of wing leading edge

14. (reserved)

15. Levelling Means: Cabin door, lower sill

16. Minimum Flight Crew: 1 (Pilot)

17. Maximum Passenger Seating Capacity: 1

18. (reserved)

19. Baggage / Cargo Compartments

Max. Allowable Load 22,7 kg (at +304,8 cm)

B.IV Operating and Service Instructions

Airplane Flight Manual (AFM) Model A-1A dated 28/1/98 or later approved revision

Maintenance Manual (MM) MM for Model A-1A

B.V Notes

- This certification applies to serial numbers 1395 to 1999 of A-1A Series under Production Certificate 704NM
- 2. Aircraft incorporation the Lycoming 0-360-A1P engine are certified for use with a 72 inch dia. Propeller and be limited to 2400 RPM max. continuous power and 2700 RPM max. continuous take-off power for 5 minutes. Aviat Aircraft Inc. Flight Manual Supplement dated December 1, 1994 or later FAA approved revision is then required.
- 3. Model A-1A are approved for use with Aero Ski Models M1500, M1800, M2000, and M3000H installed per Christen Drawing 35569. Christen Airplane Flight Manual Supplement, dated April 11, 1988, or later FAA approved revision for fixed ski operation is required.
- 4. The Model A-1A is approved for banner and glider towing when a approved tow hook is installed in accordance with Aviat Drawing 35572. Aviat Aircraft Flight Manual Supplement, dated September 1, 1988, or later FAA approved revision for banner and glider tow operations is required.
- 5. Models A-1A are approved for use with Aero Ski Models R2800 retractable ski installed per Christen Drawing 35593. Christen Airplane Flight Manual Supplement, dated Nov 7, 1989, or later FAA approved revision for retractable ski operation is required.
- 6. Model A-1A are approved for use with optional skylight panel installed in accordance with Aviat Aircraft Inc. drawing 35640.
- 7. The following main gear tires are approved for use on Model A-1A:

6.00 x 6 4-ply Type III tube

8.00 x 6 4-ply Type III tube.

8.50 x 6 6-ply Type III tube.

24 x 10-6 Type III Tundra

26 x 10.5-6 Tundra and 8.50 x 6 tube.

- 8. Model A-1A S/N 1395 to 1429 are eligible for increased flap speed of 70 KIAS (80mph) if airspeed indicator P/N 81714 is installed and Airplane Flight Manual is updated to reflect 70 KIAS (80 mph) flap speed.
- 9. Model A-1A are approved for use with the Alaskan Bushwheel P/N 31136, 31" Diameter Tundra tire. Model A-1A must have the Aero Ski gear P/N 35017-503 and 35017-504 installed in conjunction with the 31" tundra tires P/N 31136. The Scott 10" Model L3450 tail wheel must also be installed per Aviat Aircraft Drawing 35340 on the model A-1A. FAA approved Flight Manual Supplement dated September 18, 1998 or later for the Tundra Tire configuration is required.
- 10. Models A-1A are approved for use with the Vision Microsystems Inc. VM1000 Engine Monitoring System when installed in accordance with Aviat Master Drawing List 95-0, dated 25 October 1999. Operation and maintenance in accordance with FAA Approved Airplane Flight Manual Supplement for the Vision Microsystem VM1000 Engine Monitoring System, dated 18 August 1999 and Supplemental Instructions for Continued Airworthiness VM1000 Engine Monitoring System, dated 5 August 1999, or later revisions, are required.
- 11. Models A-1A effective serial numbers 1451 and above are equipped for a baggage area access door located below the right hand aft side window. The door is optional for the A-1A and is available as a production design change only on the serial numbers listed above.
- 12. Models A-1A are approved for use with the Vision Microsystems Inc. VM1000 Engine Monitoring System with IFR equipment when installed in accordance with Aviat Master Drawing List 95-0, Revision A dated 25 October 1999. Operation and maintenance in accordance with FAA Approved Airplane Flight Manual Supplement for the Vision Microsystems VM1000 Engine Monitoring System, dated 18 August 1999 and Supplemental Instructions for Continued Airworthiness VM1000 Engine Monitoring System, Revision B dated 5 August 1999, or later revisions, are required.
- 13. Models A-1A are approved for use with the Aviat Aft Stowage Compartment when factory-installed in accordance with Aviat Master Drawing List 96-00-00, Revision F dated 5/28/2000, or field

- installed per Aviat Service Bulletin 16, dated 4/19/2000 as Aviat Kit A-1-351 Revision D. Operation and maintenance in accordance with FAA Approved Airplane Flight Manual Supplement for Models A-1A with the Aft Stowage Compartment Installed, dated 4/28/2000 and Supplemental Instructions for Continued Airworthiness Aft Stowage Compartment, dated 4/17/2000, or later revisions, are required.
- 14. Models A-1A are approved for use with the Fluidyne Model C-2200 Retractable Skis when installed in accordance with Aviat Husky Service Bulletin 15, Fluidyne C-2200 Retractable Ski Installation and Operation; A-1/A-1A Forward CG Expansion, dated 6/14/1999. Operation and maintenance in accordance with FAA Approved Airplane Flight Manual Supplement for Fluidyne Skis, dated 6/25/1999 and Supplemental Instructions for Continued Airworthiness Fluidyne C2200 Retractable Skis, dated 6/25/1999, or later revisions, are required.

Section C: Model A-1B

C.I. General

Data Sheet No.: (IM).A.294 Issue: 1 Date: 31 January 2008

1. a) Type A-1 b) Variant A-1B

FAA Certification Date:
 28. January 1998

C.II Certification Basis

1. (reserved)

2. (reserved)

3. Certification Basis: Part 23 of Federal Aviation Regulations

4. Airworthiness Requirements: Part 23 of Federal Aviation Regulations dated 1. February

1965, Amendment 23-1 thru 23-31

5. Requirements elected to comply: None

6. EASA Special Conditions: None

7. EASA Exemptions: None

8. EASA Equivalent Safety Findings: None

9. EASA Environmental Standards: ICAO, Annex 16, Volume 1

C.III Technical Characteristics and Operational Limitations

Type Design Definition: Master Drawing List Model A-1B

2. Description: single piston engine, two-seats, modified steel cage

construction, high wing monoplane with conventional tail

and tail wheel

3. Equipment: refer to AFM

4. Dimensions: refer to AFM

5. Engines:

Lycoming O-360- A1P

(see Note 2)

Engine Limits For all operations, 2700 RPM

6. (reserved)

7. Propellers: Hartzell HC-C2YK-1BF/f7666A (Constant Speed)

Diameter not over 76 in., not under 72 in.

Hartzell governor V3-6

Hartzell spinner assy 836-60 required

Avoid continuous operations between 2000-2250 RPM

8. Fluids:

8.1 Fuel 100/100LL minimum grade aviation gasoline

8.2 Oil refer to AFM

9. Fluid capacities

9.1 Fuel: Standard Fuel Tank Total: 196,8 Litre

Usable: 189,2 Litre

9.2 Oil: engine external oil tank Maximum: 7,6 Litre

10. Air Speeds:

Design Manoevring Speed V_A : 98 KIAS (113 mph) Flap Extended Speed V_{FE} 70 KIAS (80 mph) Maximum Structural Cruising Speed V_{NO} : 103 KIAS (119 mph) Never Exceed Speed V_{NE} : 133 KIAS (153 mph)

11. Maximum Masses:

Take-off 907 kg (2000 lbs)

12. Centre of Gravity Range:

Forward limit from +186,9 to + 203,2 cm at 907 kg

from +180,3 to +203,2 cm at 693 kg

13. Datum: 152,4 cm forward of wing leading edge

14. (reserved)

15. Levelling Means: Cabin door, lower sill

16. Minimum Flight Crew: 1 (Pilot)

17. Maximum Passenger Seating Capacity: 1

18. (reserved)

19. Baggage / Cargo Compartments

Max. Allowable Load 22,7 kg (at +304,8 cm)

C.IV Operating and Service Instructions

Airplane Flight Manual (AFM) Model A-1B dated 28/1/98 or later approved revision

Maintenance Manual (MM) MM for Model A-1B

C.V Notes

- This certification applies to serial numbers 2000 and up of A-1AB Series under Production Certificate 704NM
- 2. Aircraft incorporation the Lycoming 0-360-A1P engine are certified for use with a 72 inch dia. Propeller and be limited to 2400 RPM max. continuous power and 2700 RPM max. continuous take-off power for 5 minutes. Aviat Aircraft Inc. Flight Manual Supplement dated December 1, 1994 or later FAA approved revision is then required.
- 3. Model A-1B are approved for use with Aero Ski Models M1500, M1800, M2000, and M3000H installed per Christen Drawing 35569. Christen Airplane Flight Manual Supplement, dated April 11, 1988, or later FAA approved revision for fixed ski operation is required.
- 4. The Model A-1B is approved for banner and glider towing when a approved tow hook is installed in accordance with Aviat Drawing 35572. Aviat Aircraft Flight Manual Supplement, dated September 1, 1988, or later FAA approved revision for banner and glider tow operations is required.
- 5. Models A-1B are approved for use with Aero Ski Models R2800 retractable ski installed per Christen Drawing 35593. Christen Airplane Flight Manual Supplement, dated Nov 7, 1989, or later FAA approved revision for retractable ski operation is required.
- 6. Model A-1B are approved for use with optional skylight panel installed in accordance with Aviat Aircraft Inc. drawing 35640.
- 7. The following main gear tires are approved for use on Model A-1B:

6.00 x 6 4-ply Type III tube

8.00 x 6 4-ply Type III tube.

8.50 x 6 6-ply Type III tube.

24 x 10-6 Type III Tundra

26 x 10.5-6 Tundra and 8.50 x 6 tube.

- 8. Model A-1B are approved for use with the Alaskan Bushwheel P/N 31136, 31" Diameter Tundra tire. The Scott 10" Model L3450 tail wheel must also be installed per Aviat Aircraft Drawing 37340 on the model A-1B. FAA approved Flight Manual Supplement dated September 18, 1998 or later for the Tundra Tire configuration is required.
- 9. Models A-1B effective serial numbers 2007 and above are equipped for a baggage area access door located below the right hand aft side window. The door is optional for the A-1B and is available as a production design change only on the serial numbers listed above.
- 10. Models A-1B are approved for use with the Vision Microsystems Inc. VM1000 Engine Monitoring System when installed in accordance with Aviat Master Drawing List 95-0, dated 25 October 1999. Operation and maintenance in accordance with FAA Approved Airplane Flight Manual Supplement for the Vision Microsystem VM1000 Engine Monitoring System, dated 18 August 1999 and Supplemental Instructions for Continued Airworthiness VM1000 Engine Monitoring System, dated 5 August 1999, or later revisions, are required.
- 11. Models A-1B are approved for use with the Vision Microsystems Inc. VM1000 Engine Monitoring System with IFR equipment when installed in accordance with Aviat Master Drawing List 95-0, Revision A dated 25 October 1999. Operation and maintenance in accordance with FAA Approved Airplane Flight Manual Supplement for the Vision Microsystems VM1000 Engine Monitoring System, dated 18 August 1999 and Supplemental Instructions for Continued Airworthiness VM1000 Engine Monitoring System, Revision B dated 5 August 1999, or later revisions, are required.
- 12. Models A-1B are approved for use with the Aviat Aft Stowage Compartment when factory-installed in accordance with Aviat Master Drawing List 96-00-00, Revision F dated 5/28/2000, or field installed per Aviat Service Bulletin 16, dated 4/19/2000 as Aviat Kit A-1-351 Revision D. Operation and maintenance in accordance with FAA Approved Airplane Flight Manual Supplement for Models A-1 with the Aft Stowage Compartment Installed, dated 4/28/2000 and Supplemental

- Instructions for Continued Airworthiness Aft Stowage Compartment, dated 4/17/2000, or later revisions, are required.
- 13. Models A-1B are approved for use with the Fluidyne Model C-2200 Retractable Skis when installed in accordance with Aviat Husky Service Bulletin 15, Fluidyne C-2200 Retractable Ski Installation and Operation; A-1/A-1A Forward CG Expansion, dated 6/14/1999. Operation and maintenance in accordance with FAA Approved Airplane Flight Manual Supplement for Fluidyne Skis, dated 6/25/1999 and Supplemental Instructions for Continued Airworthiness Fluidyne C2200 Retractable Skis, dated 6/25/1999, or later revisions, are required.

Section D: Model A-1C

D.I. General

Data Sheet No.: (IM).A.294 Issue: 1 Date: 23 Apr 2010

1. a) Type A-1 b) Variant A-1C

2. FAA Certification Date: September 24, 2007

D.IICertification Basis

1. (reserved)

2. (reserved)

3. Certification Basis: Part 23 of Federal Aviation Regulations

4. Airworthiness Requirements: Part 23 of Federal Aviation Regulations dated 1. February

1965, Amendment 23-1 thru 23-31

5. Requirements elected to comply: None

6. EASA Special Conditions: None

7. EASA Exemptions: None

8. EASA Equivalent Safety Findings: None

9. EASA Environmental Standards: ICAO, Annex 16, Volume 1

D.III Technical Characteristics and Operational Limitations

1. Type Design Definition: Master Drawing List Model A-1C 180

2. Description: single piston engine, two-seats, steel cage construction,

high wing monoplane with conventional tail and tail wheel

3. Equipment: refer to AFM

4. Dimensions: refer to AFM

5. Engines: Lycoming O-360-A1P

(see Note 9)

Engine Limits Refer to propeller and propeller limits

6. (reserved)

7. Propellers: Hartzell HC-C2YR-1N/N7605 (Constant Speed)

(TC/ TCDS reference EASA.IM.P.130)
Diameter not over 76 in., not under 66 in.

Pitch setting at 30 in. station Low $10.5^{\circ} \pm .2^{\circ}$, high $29.0^{\circ} \pm 1.0^{\circ}$

Takeoff & maximum continuous power 2700 RPM

8. Fluids:

8.1 Fuel 100/100LL minimum grade aviation gasoline

8.2 Oil refer to AFM

9. Fluid capacities

9.1 Fuel: Standard Fuel Tank Total: 196,8 Litre

Usable: 189,2 Litre

9.2 Oil: engine external oil tank Maximum: 7,6 Litre

10. Air Speeds:

Design Manoeuvring Speed V_A : 98 KIAS (113 mph) Flap Extended Speed V_{FE} : 70 KIAS (80 mph) Maximum Structural Cruising Speed V_{NO} : 103 KIAS (119 mph) Never Exceed Speed V_{NE} : 133 KIAS (153 mph)

11. Maximum Masses:

Take-off 998 kg (2200 lbs)

12. Centre of Gravity Range:

Forward limit from + 189,2 to + 205,7 cm at 998 kg

from + 183,6 to + 205,7 cm at 808 kg

13. Datum: 152,4 cm forward of wing leading edge

14. (reserved)

15. Levelling Means: Cabin door, lower sill

16. Minimum Flight Crew: 1 (Pilot)

17. Maximum Passenger Seating Capacity: 1

18. (reserved)

19. Baggage / Cargo Compartments

Max. Allowable Load 22,7 kg (at +304,8 cm)

D.IV Operating and Service Instructions

Airplane Flight Manual (AFM) Model A-1C 180 dated 7/24/07 or later approved revision

Maintenance Manual (MM) MM for Model A-1C-180 dated 7-10-07 or later approved

revisions

D.V Notes

- 1. This certification applies to serial numbers eligible 3000 and up of A-1C Series under Production Certificate 704NM.
- 2. Model A-1C 180 is approved for use with optional skylight panel installed in accordance with Aviat Aircraft Inc. drawing 35640.
- 3. The following main gear tires are approved for use on Model A-1C 180:

TIRE SIZE	TUBE
8:00 X 6 4 TO 6 PLY	600 X 6 TYPE III
8:50 X 6 4 TO 6 PLY	8:00 X 6 TYPE III
26 X 10.5 X 6 6 PLY	8:50 X 6 TYPE III
26 X 13 X 6	TUBELESS
29 X 13 X 6	TUBELESS
31 X 13 X 6	TUBELESS

- 4. Model A-1C 180 is equipped for a baggage area access door located below the right hand aft side window. The door is optional for the A-1C.
- 5. Model A-1C 180 is approved for use with the Vision Microsystems Inc. VM1000 Engine Monitoring System when installed in accordance with Aviat Master Drawing List 95-0, dated 25 October 1999. Operation and maintenance in accordance with FAA Approved Airplane Flight Manual Supplement for the Vision Microsystems VM1000 Engine Monitoring System, dated 18 August 1999 and Supplemental Instructions for Continued Airworthiness VM 1000 Engine Monitoring System, dated 5 August 1999, or later revisions, are required.
- 6. Model A-1C 180 is approved for use with the Vision Microsystems Inc. VM 1000 Engine Monitoring System with IFR equipment with installed in accordance with Aviat Master Drawing List 95-0, Revision A dated 25 October 1999. Operation and maintenance in accordance with FAA Approved Airplane Flight Manual Supplement for the Vision Microsystems VM 1000 Engine Monitoring System, dated 18 August 1999 and Supplemental Instructions for Continued Airworthiness VM 1000 Engine Monitoring System, Revision B dated 5 August 1999, or later revisions, are required.
- 7. Model A-1C 180 is approved for use with the Aviat Aft Stowage Compartment when factory-installed in accordance with Aviat Master Drawing List 96-00-00, Revision F dated 5/28/2000, or installed per Aviat Service Bulletin 16, dated 4/19/2000 as Aviat Kit A-1-351 Revision D.
- 8. Model A-1C 180; both the upper and lower doors may be opened and the aircraft flown to Vne except serial numbers 3036, 3048, 3050, and up with the 38001-501 fuselage. Serial numbers 3036, 3048, 3050, and up have a modified fuselage to accommodate a larger door, and the fuselage cluster behind the instrument panel has been moved. These modifications are on the 38001-501 fuselage drawing.
- 9. The EASA Engine Type Certification standard includes that of FAA TC E286, based on individual EU member state acceptance or certification of this standard prior to 28 September 2003, Other standards conforming to TC/TCDS standards Certificated by individual EU member States prior to 28 September 2003 are also acceptable.