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## TYPE-CERTIFICATE DATA SHEET

**UK.TC.A.00019**

for

Piper PA-28-181

Type Certificate Holder

**Piper Aircraft, Inc.**

2926 Piper Drive,

Vero Beach,

Florida

32960

United States of America

Model(s): PA-28-181 (Archer III)  
Issue: 1  
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**Section 1 PA-28-181 (Archer III)**

**I. General**

**1. Type / Variant or Model**

Type: PA-28  
Variant or Model: PA-28-181 (Archer III)

**2. Airworthiness Category**

Normal and Utility Category

**3. Type Certificate Holder**

Piper Aircraft, Inc.  
2926 Piper Drive  
Vero Beach,  
Florida 32960  
United States of America, see note 9

**4. EASA Type Certification Application Date**

N/A

**5. State of Design Authority**

FAA

**6. State of Design Auth. Type Certification Date**

30 August 1994

**7. UK Type Certification Date**

28 September 2003 (see UK Reg (EU) No. 748/2012 Article 3, para 1(a))

**II. Certification Basis**

**8. Reference Date for determining the applicable requirements**

Date of application for FAA TC for Model PA-28-181 (Archer III)  
08 November 1993

**9. Airworthiness Requirements**

- a) CAR 3 and FAR 23 for the basic PA-28-181 (Archer III) aeroplane (for applicable amendments see note 6)
- b) CAR 3, FAR 23 and CS-23 for PA-28-181 (Archer III) aeroplanes equipped with the factory installed Avidyne Entegra System option (for applicable amendments see note 7).
- c) CAR 3, FAR 23 and CS-23 for PA-28-181 (Archer III) aeroplanes equipped with the factory installed Garmin G1000 Integrated Avionics System option (for applicable amendments see note 7).
- d) CAR 3, FAR 23 and CS-23 for PA-28-181 (Archer III) aeroplanes equipped with factory installed Garmin G1000 NXI (phase I and phase II & GFC700 AFCS) Integrated Avionics System option (for applicable amendments see note 7).
- e) CAR 3, FAR 23 and CS-23 for PA-28-181 (Archer III) aeroplanes equipped with the factory installed Lycoming IO-360-B4A engine option (for applicable amendments see note 7).
- f) CAR 3, FAR 23 and CS-23 for PA-28-181 (Archer III) aeroplanes equipped with the factory installed Garmin G5

Standby Instrument option and G3X avionics (see note 10)  
(for applicable amendments see note 7).

- 10. Requirements elected to comply** None
- 11. Special Conditions**
- a) None for the basic PA-28-181 (Archer III) aeroplane
  - b) CRI-F01, Protection from the Effects of HIRF, CRI-F02, Protection from the effects of Lightning Strike; Indirect effects  
CRI-F05, Human Factors in Integrated Avionic Systems, for PA-28-181 (Archer III) aeroplanes equipped with the factory installed Avidyne Entegra System option.
  - c) CRI B-52, Human Factors in Integrated Avionic Systems, FAR 23.1306, Amdt. 23-61, Protection of the effects of lightning strike, indirect effects (Formerly CRI F-54), FAR 23.1308(a)(b)(c), Amdt. 23-61, Protection of the effects of HIRF (formerly CRI F-52), PA-28-181 (Archer III) aeroplanes equipped with the factory installed Garmin G1000 Integrated Avionics System option.
  - d) SC-B23.div-01 (B-52), Human Factors in Integrated Avionic Systems, FAR 23.1306, Amdt. 23-61, Protection of the effects of lightning strike, indirect effects (formerly CRI F-54), FAR 23.1308(a)(b)(c), Amdt. 23-61, Protection from the effects of HIRF (formerly CRI F-52), CRI F-90, Security Protection of Aircraft Systems and Networks for PA-28-181 (Archer III) aeroplanes equipped with the factory installed Garmin G1000 NXI (Phase I and II). In addition CRI F-14 Electronic Stability and Protection (ESP) only for aeroplanes equipped with G1000 phase II option and the autopilot GFC-700.
  - e) SC-B23.div-01 (B-52) Human Factors in Integrated Avionic Systems for PA-28-181 (Archer III) aeroplanes equipped with Garmin G5 Standby Instrument and G3X avionics (see Note 10).
- 12. Exemptions** None
- 13. Deviations** None
- 14. Equivalent Safety Findings**
- a) None for the basic PA-28-181 (Archer III) aeroplane.
  - b) CRI-F03, Powerplant Instruments for PA-28-181 (Archer III) aeroplanes equipped with the factory installed Avidyne Entegra System option.
  - c) CRI F-201, Flight Instruments, Stabilized Magnetic Compass, CRI F-203, Power Plant Instruments, Fuel Flow Indication, for PA-28-181 (Archer III) aeroplanes equipped with the factory installed Garmin G1000 Integrated Avionics System option.
  - d) CRI F-201, Flight Instruments, Stabilized Magnetic Compass, CRI F-203 Power Plant Instruments, Fuel Flow Indication, for PA-28-181 (Archer III) aeroplanes equipped with the factory installed G1000 NXI (Phase I and II)
  - e) F-201, Flight Instruments, Stabilized Magnetic Compass, for PA-28-181 (Archer III) for PA-28-181 (Archer III) aeroplanes equipped with the factory installed Garmin G5 Standby Instrument.
- 15. Environmental Protection** ICAO Annex 16, Volume 1 Chapter 10

### III. Technical Characteristic and Operating Limitations

#### 16. Type Design Definition

Piper Top Drawing No. 85191-002

For TDD of TCDS relevant changes, see also note 8.

#### 17. Description

Single engine reciprocating, all-metal, four-place, unpressurized, low-wing aeorplane, fixed tricycle landing gear.

#### 18. Equipment

For approved equipment, see available AFM/POH, section 6.

(For applicable AFM/POH see Section IV).

#### 19. Dimensions

Span: 10.82 m (35.5 ft)

Length: 7.32 m (24.0 ft)

Height: 2.23 m (7.3 ft)

Wing Area: 15.79 m<sup>2</sup> (170 ft<sup>2</sup>)

#### 20. Engines

Engine:

1 Lycoming O-360-A4M, carburettor setting 10-6102 or 10-5193 for aircraft prior to S/N 2843501.

OR

1 Lycoming IO-360-B4A engine with injector model RSA-5AD1, Lycoming Part Number 61J28702, Avstar Part Number AV 2581600.

The Engine Type Certification standard includes that of FAA TCDS E-286 ((see UK Reg (EU) No. 748/2012 Article 3, para 1(a))

Engine Limits:

For all operations:

2700 RPM (180HP)

For other powerplant limitations refer to the applicable AFM/POH, section 2.

#### 21. Propellers:

Propeller:

1 Sensenich 76EM8S14-0-62

Static RPM at maximum permissible throttle setting, not over 2340 RPM, not under 2240 RPM at sea-level, ISA conditions.

Reference Aircraft Maintenance Manual for test procedure to determine approved static RPM under non-standard conditions.

No additional tolerance permitted.

Diameter:

Not over or under 1.93m (76")

Spinner:

Piper P/N 83349-12

The Propeller Type Certification standard includes that of FAA TCDS P4EA (see UK Reg (EU) No. 748/2012 Article 3, para 1(a))

**22. Fluids**

Fuel: 100/100LL minimum grade aviation gasoline  
 Oil: In accordance with latest revision of Lycoming SI 1014

**23. Fluid Capacities**

Fuel: Total: 189 Liters (50 US gal) in 2 leading edge wing tanks  
 Useable: 182 Liters (48 US gal) in 2 leading edge wing tanks

Oil: Total: 7.6 Liters (8 qts)  
 Useable: 5.7 Liters (6 qts)

**24. Air Speeds**

Design Manoeuvring Speed  $V_A$  113 KIAS  
 (1157kg (2550lb))  
 Design Manoeuvring Speed  $V_A$  91 KIAS  
 (742kg (1634lb))  
 Never Exceed Speed  $V_{NE}$  154 KIAS  
 Maximum Structural Cruising Speed  $V_{NO}$  125 KIAS  
 Maximum Flap Extend Speed  $V_{FE}$  102 KIAS

**25. Approved Operations Capability**

VFR Day and Night  
 IFR Day and Night

**26. Maximum Masses**

a) Normal Category: Ramp: 1161 kg (2558 lb)  
 Take-off: 1157 kg (2550 lb)  
 b) Utility Category: Ramp: 970 kg (2138 lb)  
 Take-off: 967 kg (2130 lb)

**27. Centre of Gravity Range**

a) Normal Category:

Linear variation between given points:

<b>Weight Kg (lb)</b>	<b>Fwd. Limit m (in) aft of datum</b>	<b>Aft Limit m (in) aft of datum</b>
1161 (2550)	2.250 (88.6)	2.362 (93.0)
930 (2050)	2.083 (82.0)	2.362 (93.0)

See also Note 3.

b) Utility Category:

Linear variation between given points:

<b>Weight Kg (lb)</b>	<b>Fwd. Limit m (in) aft of datum</b>	<b>Aft Limit m (in) aft of datum</b>
967 (2130)	2.108 (83.0)	2.362 (93.0)
930 (2050)	2.083 (82.0)	2.362 (93.0)

See also Note 3.

**28. Datum**

1.991 m (78.4") forward of inboard intersection of straight and tapered wing leading edge sections

**29. Levelling Means**

Two screws at the left side fuselage below window

**30. Minimum Flight Crew**

1 (Pilot)

**31. Maximum Passenger Seating Capacity**

Normal Category: 3

Normal Category: 2 (for aircraft where the G3X avionics is installed. See notes 7 and 10)

Utility Category: 1

For passenger seating locations see applicable AFM/POH

**32. Baggage/Cargo Compartments**

91 kg (200 lb) at 3.627m (+142.8 in)

**33. Wheels and Tyres**

Nose Wheel Tyre Size: 6.00x6, 4 ply

Main Wheel Tyre Size: 6.00x6, 4 or 6 ply

**34. Control Surface Movements**

For approved control surface deflections see applicable Airplane Maintenance Manual.

**IV. Operating and Service Instructions**

**35. Airplane Flight Manual AFM and Pilot's Operating Handbook (POH):**

- a) D.O.A NO. SO-1 approved Pilot's Operating Handbook and FAA approved Airplane Flight Manual Report No. VB-1563 for Model PA-28-181 (Archer III), S/N 2890206 up to 2890231
- b) D.O.A NO. SO-1 approved Pilot's Operating Handbook and FAA approved Airplane Flight Manual Report No. VB-1611, rev 13 or later revision, for Model PA-28-181 (Archer III), S/N 2843001 and up. S/N 2843598 and up when equipped with the factory installed Avidyne Integra option.
- c) ODA-510620-CE approved Pilot's Operating Handbook and FAA approved Airplane Flight Manual Report No. VB-2266 rev 2 or later revision, for Model PA-28-181 (Archer III), when

- equipped with the factory installed Garmin Integrated Avionics System option, S/N 2843701 and 2843703 and up.
- d) ODA-510620-CE approved Pilot's Operating Handbook and FAA approved Airplane Flight Manual Report No. VB-2749, rev 2 or later revision, for Model PA-28-181 (Archer III), when equipped with the factory installed Garmin G1000 NXI Phase II & GFC 700 AFCS and the normally aspirated or fuel injected engine option, and the Garmin G5 S/N 2843823, 2881001 and up.
  - e) ODA-510620-CE approved Pilot's Operating Handbook and FAA approved Airplane Flight Manual Report No. VB-2596, rev 3 or later revision, for Model PA-28-181 (Archer III), when equipped with the factory installed Garmin G1000 NXI Phase I and the normally aspirated or fuel injected engine option, S/N 2843823, 2843852, 2843854 and up.
  - f) ODA-510620-CE approved Pilot's Operating Handbook and FAA approved Airplane Flight Manual Report No. VB-2960, Revision 4 or later revision, for Model PA-28-181 (Archer III), when equipped with the G3X avionics, S/N 28020001 and up (see note 10)

### **36. Airplane Maintenance Manual (AMM)**

P/N 761-679, latest approved revision, for S/N 2890206 through 2890231

P/N 761-883, latest approved revision, for S/N 2843001 and up

P/N 761-883 and Supplement 767-111 for S/N 28020001 and up (see note 10).



## V. Notes

### 1. Applicable Manufacturer's S/N and Certification Import Requirements:

- a) Basic Aeroplane: S/N 2890206 through 2890231 and S/N 2843001 and up
- b) Avidyne Entegra option: S/N 2843598 and up

In addition for import into the UK the following requirements have to be met:

- PFD set-up has to be configured to display hPa (mbar) altimeter setting units.
- Pointer type altimeters (including stand-by altimeters) have to be either factory installed or installed in accordance with an approved change, and must have a hPa (mbar) barometric setting scale.
- PFD/MFD fuel quantity and fuel flow units shall be configured in compliance with units displayed in the POH/AFM (see FAR/CS 23.1581c).
- Compliance with Piper SB1162B or later approved revision is required.

- c) Garmin G1000 option: S/N 2843701 and 2843703 and up
- d) Garmin 1000 NXi Phase II, GFC700 AFCS and O-360-A4M or IO-360-B4A option: S/N 2843823, 2881001 and up
- e) Garmin 1000 NXi Phase I and O-360-A4M or IO-360-B4A option: S/N 2843823, 2843852, 2843854 and up

### 2. Approved Noise Levels:

See TCDSN UK.TC.A.00019 or UK noise database for light propeller driven aeroplanes, latest revision.

### 3. Weight and Balance:

Current Weight and Balance Report, including list of equipment included in certificated empty weight, and loading instructions when necessary, must be provided for each aircraft at the time of original certification.

The certificated empty weight and corresponding center of gravity locations must include undrainable system oil (not included in oil capacity) and unusable fuel as noted below:

Fuel: 5.4 kg (12.0 lb) at +2.616m (+103.0 in)  
Oil: 0.8 kg (1.8 lb) at +0.902m (+35.5 in)

### 4. Placards:

All placards required in the approved Airplane Flight Manual or Pilot's Operating Handbook and approved Airplane Flight Manual or Pilot's Operating Handbook Supplements must be installed in the appropriate location.

### 5. Life Limitations:

For mandatory life limitations and inspection requirements see chapter 4, latest revision, of the applicable maintenance manuals.

### 6. Certification Basis for basic PA-28-181 (Archer III) aeroplanes:

CAR 3 effective May 15, 1956, including Amendments 3-2 and 3-4; paragraphs 3.304 and 3.705 of Amendment 3-7 effective May 3, 1962; FAR 23.207, 23.221, 23.955 and 23.959 as amended by Amendment 23-7 effective September 14, 1969; FAR 23.1557(c)(1) as amended by Amendment 23-18 effective May 2, 1977; and FAR 23.1327 and 23.1547 as amended by Amendment 23-20 effective September 1, 1977.

### 7. In addition to the certification basis defined in CRI-A01 Avidyne Avidyne Entegra, latest revision, the applicable paragraphs for the factory installation of the Avidyne Entegra option are listed below. These CS requirements substitute the corresponding paragraphs of note 6.

CS-23 (basic release):

CS 23.301, 23.303, 23.305, 23.307, 23.337, 23.341, 23.473, 23.561(b)(3), 23.601, 23.603, 23.605,

23.607, 23.609, 23.611, 23.613, 23.683, 23.771, 23.773, 23.777, 23.867, 23.955, 23.1191, 23.1301, 23.1303, 23.1305, 23.1307, 23.1309, 23.1311, 23.1321, 23.1322, 23.1323, 23.1325, 23.1327, 23.1329, 23.1331, 23.1335, 23.1337, 23.1351, 23.1353, 23.1357, 23.1359, 23.1361, 23.1365, 23.1367, 23.1381, 23.1431, 23.1501, 23.1523, 23.1525, 23.1529, 23.1541, 23.1543, 23.1545, 23.1549, 23.1555, 23.1563, 23.1581, 23.1583, 23.1585

In addition to the certification basis defined in CRI A-01 G1000, latest revision, the applicable paragraphs for the factory installation of the Garmin G1000 Integrated Avionics System option are listed below. These CS requirements substitute the corresponding paragraphs of note 6.

CS-23 (Amendment 2):

CS 23.21, 23.23(a), 23.25, 23.29, 23.207(a)(b)(c), 23.251, 23.301(a)(b)(c), 23.303, 23.305, 23.307, 23.337, 23.341(a)(c), 23.421(a)(c), 23.473, 23.561(a)(b)(3)(e), 23.601, 23.603, 23.605(a), 23.607, 23.609, 23.611, 23.613, 23.625, 23.773(a)(1)(2), 23.777(a)(b), 23.867, 23.1301, 23.1303(a)(b)(f), 23.1305(a)(1)(2)(3)(b)(2), 23.1309(a)(1)(2)(b)(c)(d)(e), 23.1311, 23.1321, 23.1322, 23.1323(a)(c), 23.1325(a)(b)(1)(2)(i), 23.1326, 23.1327(a), 23.1329(d)(g)(h), 23.1335, 23.1337(b)(1)(4), 23.1351(a)(1)(2)(i)(b)(1)(i)(3)(c)(4)(d), 23.1353, 23.1357, 23.1359(c), 23.1361(c), 23.1365, 23.1367, 23.1381, 23.1431(a)(b)(e), 23.1501, 23.1507, 23.1523, 23.1525, 23.1529, 23.1541(a)(b), 23.1543(b)(c), 23.1545(a)(b), 23.1549(a)(b)(c), 23.1553, 23.1555(a)(b), 23.1563(a), 23.1581(a)(c), 23.1583(g)(h)(m), 23.1585(j), 23.1589(a)

For aircraft equipped with Piper factory installed optional Lycoming Fuel Injected IO-360-B4A engine, as installed by Piper Drawing Number 107500, the applicable requirements are listed below. These requirements substitute the corresponding paragraphs of note 6.

CAR 3 as amended by 3-2;

3.71, 3.73, 3.74, 3.75, 3.76, 3.171(a), 3.172, 3.173, 3.174, 3.186, 3.188, 3.195(a)(2)(b), 3.241, 3.291, 3.292, 3.293, 3.294, 3.295, 3.296, 3.301, 3.302, 3.306, 3.307, 3.384, 3.386(a), 3.411(a)(b), 3.415, 3.416(a)(b), 3.417, 3.419, 3.422(a)(1)(2)(b)(c)(l)(2), 3.429, 3.430, 3.437(a)(b)(e)(f), 3.438, 3.440, 3.441(a)(1)(b)(c), 3.442, 3.443, 3.444, 3.445, 3.446(a), 3.448, 3.449(a)(b), 3.550, 3.551, 3.552, 3.553, 3.554, 3.562, 3.570, 3.572, 3.575(a), 3.576, 3.581, 3.582, 3.583, 3.584, 3.585, 3.586, 3.605(a)(b), 3.611, 3.615, 3.616, 3.617, 3.618, 3.623, 3.624(a)(b), 3.625, 3.627, 3.628, 3.629, 3.630, 3.633, 3.635, 3.638, 3.651, 3.652, 3.655(c)(2), 3.671, 3.673, 3.674, 3.681(a), 3.685, 3.693, 3.744, 3.745(a), 3.746(a)(c), 3.747, 3.755(a)(b), 3.762, 3.777(a), 3.778(b), 3.779, as amended by 3-2;

In addition, CS-23 (Amendment 2):

23.955(a)(c)(1)(3)(e)(1), 23.1093, 23.1101, 23.1105, 23.1337(b)(1)(4) and 23.1549(a)(b)(c)  
(14 CFR § 23.1093 (a)(5) Amdt 23-51 is an acceptable means of compliance to CS 23.1093 (a))

For aircraft equipped with Piper factory installed optional Garmin G1000 NXi phase 1 as installed by Piper Drawing Number 107500-003, -004, -007, and -008, the applicable requirements are listed below. These requirements substitute the corresponding paragraphs of note 6. Note that the G1000 NXi is an upgrade of the G1000, so for aeroplanes modified with the G1000 NXi also the applicable certification basis for the G1000 installation shall be considered.

CS-23 (Amendment 2):

23.21, 23.23(a), 23.25(a)(b), 23.29, 23.301(a)(b)(c), 23.303, 23.305, 23.307, 23.337, 23.341(a)(c), 23.473, 23.561(a)(b)(3)(e), 23.601, 23.603, 23.605(a), 23.607, 23.609, 23.611, 23.613, 23.625, 23.627, 23.771(a), 23.773(a)(1)(2), 23.777(a)(b), 23.867, 23.1301(a)(b)(c)(d), 23.1303(a)(b)(c)(f), 23.1305(a)(1)(2)(3)(b)(2)(4)(i), 23.1309(a)(1)(2)(b)(c)(d)(e), 23.1311(a)(1)(2)(3)(4)(5)(6)(7)(b)(c), 23.1321(a)(c)(d)(5)(e), 23.1322(a)(b)(c)(d)(e), 23.1323(a)(c), 23.1325(a)(b)(1)(2)(i), 23.1326(a)(b), 23.1327(a), 23.1329(h), 23.1335, 23.1337(b)(1)(4), 23.1351(a)(1)(2)(i), 23.1353(h), 23.1357(a)(b)(c)(d), 23.1359(c), 23.1365, 23.1381(a)(b)(c), 23.1383(c), 23.1385(a)(b)(c)(d), 23.1387(a)(b)(c)(d)(e), 23.1389(a)(b)(c), 23.1391, 23.1393, 23.1395(a)(b), 23.1397(a)(b)(c), 23.1401(a)(b)(c)(d)(e)(f), 23.1431(a)(b)(e), 23.1523, 23.1525, 23.1541(a)(b), 23.1543(b)(c), 23.1545(a)(b), 23.1549(a)(b)(c), 23.1501, 23.1529, 23.1553, 23.1555(a)(b), 23.1581(a)(c), 23.1583(g)(h)(m), 23.1585(j), 23.1589(a).

CAR3 sections 3.581, 3.582, 3.583, 3.586, and 3.635, effective May 15, 1956 including Amendment 3-2.

FAR 23.1306, FAR 23.1308 (a)(b)(c) as amended by Amdt. 23-61;

For aircraft equipped with Piper factory installed optional Garmin G1000 NXi Phase II and GFC700 AFCS (or Garmin G1000NXi Phase II only) the applicable requirements are listed below. These requirements substitute the corresponding paragraphs of note 6. Note that the G1000 NXi is an upgrade of the G1000, so for aeroplanes modified with the G1000 NXi also the applicable certification basis for the G1000 installation shall be considered.

CS-23 (Amendment 2):

23.21(b), 23.23(a), 23.25(a)(b), 23.29, 23.143(a)(b), 23.207(a)(b)(c)(d)(e), 23.301(a)(b)(c), 23.303, 23.305, 23.307, 23.337, 23.341(a)(c), 23.397, 23.399, 23.473, 23.561(a)(b)(3)(e), 23.601, 23.603, 23.605(a), 23.607, 23.609, 23.611, 23.613, 23.625, 23.627, 23.681, 23.683, 23.693, 23.771(a), 23.777(a)(b), 23.779, 23.867, 23.1141(d), 23.1301(a)(b)(c)(d), 23.1303(a)(b)(c)(f), 23.1305(a)(1)(2)(3)(b)(2)(4)(i), 23.1309(a)(1)(2)(b)(c)(d)(e), 23.1311(a)(1)(2)(3)(4)(5)(6)(7)(b)(c), 23.1321(c)(d)(5)(e), 23.1322(a)(b)(c)(d)(e), 23.1323(a)(c), 23.1325(a)(b)(1)(2)(i), 23.1327(a), 23.1329(a)(1)(b)(c)(d)(e)(f)(g)(h), 23.1335, 23.1337(b)(1)(4), 23.1351(a)(1)(2)(i), 23.1353(h), 23.1357(a)(b)(c)(d), 23.1359(c), 23.1365, 23.1367(a)(b)(c)(d), 23.1381(a)(c), 23.1431(a)(b)(e), 23.1501, 23.1523, 23.1525, 23.1529, 23.1541(a)(b), 23.1543(c), 23.1545(a)(b), 23.1549(a)(b)(c), 23.1553, 23.1555(a), 23.1581(a)(c), 23.1583(g)(h)(m), 23.1585(a)(1)(j), 23.1589(a)

CAR3 sections 3.581, 3.582, 3.583 and 3.586 effective May 15, 1956 including Amendment 3-2.

FAR 23.1306, FAR 23.1308 (a)(b)(c) as amended by Amdt. 23-61

For aeroplanes equipped with Piper factory installed optional Garmin G5 Standby Instrument as installed by Piper Drawing Number 107569 Rev G or later FAA approved revision, the applicable requirements are listed below. These requirements substitute the corresponding paragraphs of note 6.

CS 23 Amendment 2:

23.25(a)(b), 23.29, 23.251, 23.301(a), 23.303, 23.305, 23.307(a), 23.337(a)(b), 23.561(a)(b)(3)(c), 23.601, 23.603, 23.605(a), 23.607(b), 23.613(a)(b), 23.771(a), 23.773(a)(2), 23.777(a)(b), 23.853(a), 23.1301(a)(b)(c)(d), 23.1303(a)(b)(f), 23.1309(a)(1)(2)(b)(1)(2)(4)(e), 23.1311(a)(1)(2)(3)(6)(7)(b), 23.1321(c)(e), 23.1322(a)(e), 23.1323(a)(b)(c), 23.1325(a)(b), 23.1331(a)(b)(1)(c), 23.1431(b), 23.1351(a)(1)(2)(i), 23.1353(h), 23.1357(a)(b)(c)(d), 23.1359, 23.1365(a)(b)(c)(d)(d)(e), 23.1381(a)(b), 23.1431(a), 23.1529, 23.1541(a)(b)(c), 23.1543(b), 23.1545(a)(b)(c), 23.1555(a)(b), 23.1581(a)(b)(d)(f), 23.1583(m), 23.1585(a);

CS 23 Amendment 5

23.2515, 23.2520

For aeroplanes equipped with Piper factory installed Garmin G3X avionics (see note 10) as installed by Piper Drawing Number 28G00A001 Revision New or later FAA approved revision, the applicable requirements are listed below.

Note: the G3X installation is approved only for aircraft with G5 Standby Instrument as installed by Piper Drawing Number 28G24A001 revision NEW (SYSTEM INSTL-ELECTRICAL & AVIONICS) and with Lycoming Fuel Injected IO-360-B4A engine as installed by Piper Drawing Number 109002 Revision R (POWERPLANT INSTALLATION). The requirements below complement and substitute, where applicable, the requirements of note 6 for the G5 and the engine installation:

CS 23 Amendment 2:

23.251(a), 23.301(a), 23.303, 23.305, 23.307(a), 23.337(a)(b), 23.561(a)(b)(3)(e), 23.601, 23.603, 23.605(a), 23.607(a)(b), 23.609, 23.611, 23.613(a)(b)(c), 23.627, 23.771(a), 23.773(a)(2), 23.777(a)(b), 23.853(a), 23.863(a)(b), 23.867, 23.901(a)(b)(1)(e), 23.955(a)(2)(3)(4)(c), 23.963(e), 23.993, 23.1182, 23.1301(a)(b)(c)(d), 23.1303(a)(b)(c)(f), 23.1305(a)(1)(2)(3)(b)(2)(4)(i), 23.1309(a)(1)(2)(i)(b)(1)(2)(i)(ii)(3), 23.1310(a), 23.1311, 23.1321(a)(c)(d)(5)(e), 23.1322, 23.1323, 23.1325(a)(b)(1)(2)(i), 23.1327, 23.1331(a)(b)(c), 23.1337(a)(b)(1)(c), , 23.1351(a)(1)(2)(i)(e), 23.1431, 23.1353(h), 23.1357(a)(b)(c)(d), 23.1359, 23.1365(a)(b)(c)(d), 23.1367(a)(b)(c)(d), 23.1381(a)(b)(c), 23.1431(a)(b)(e), 23.1501, 23.1521(a)(b)(1)(c)(1)(4), 23.1523, 23.1529, 23.1541(a)(b), 23.1543(b)(c), 23.1545(a)(b)(1)(2)(3)(4), 23.1547(a)(b)(c)(d)(e), 23.1555(a)(b)(d)(3), 23.1581(a)(b)(2)(c), 23.1583(d)(h)(j)(m), 23.1585(a)(j),

CS 23 Amendment 5:

23.2335, 23.2510, 23.2515, 23.2520

8. Type Design Definition of TCDS relevant changes:

- |   |                                     |
|---|-------------------------------------|
| a) Factory Installed Avidyne Entegra Option:  | New Piper Top Drawing No. 85191-005 |
| b) Factory Installed Garmin G1000 Option:     | Piper Top Drawing 107500            |
| c) Factory Installed IO-360-B4A Option:       | Piper Top Drawing 107500            |
| d) Factory Installed Garmin G1000 NXI Option: | Piper Top Drawing 107500            |
| e) Factory Installed Garmin G5                | Piper Top Drawing 107569            |
| f) Factory Installed Garmin G3X               | Piper Drawing Number 28G00A001      |

9. For Manufacturer history of the Archer III model refer to the Type Certificate Holder record, Administrative Section, II.

10. Aircraft with Factory installed G3X avionics have the commercial designation Piper Pilot 100i. For these aircraft the number of seats is limited to 3 and the G5 standby instrument and the IO-360-B4A have to be installed.

## Section 2 Administration

### I. Acronyms and Abbreviations

Acronym / Abbreviation	Definition
TC	Type Certificate
TCDS	Type Certificate Data Sheet
TCH	Type Certificate Holder

## II. Type Certificate Holder Record

(and Manufacturer Record)

<b>TCH Record</b>	<b>Period</b>
Piper Aircraft, Inc. 2926 Piper Drive Vero Beach, Florida 32960 U.S.A.	Present. No changes.
The New Piper Aircraft, Inc. 2926 Piper Drive Vero Beach, Florida 32960 U.S.A.	Until August 7, 2006
Piper Aircraft Corporation Lock Haven, Pennsylvania/Vero Beach Florida U.S.A.	Until 1995

## III. Amendment Record

<b>TCDS Issue No.</b>	<b>TCDS Issue Date</b>	<b>Changes</b>	<b>TC Issue and Date</b>
1	10 Dec 2021	This TCDS supersedes EASA TCDS EASA.IM.A.234 Issue 3. All technical data as per EASA.IM.A.234 Issue 5. Introduction of G5 and G3X Installation approval.	Issue 1 10 Dec 2021

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