



U.S. Department
of Transportation

**Federal Aviation
Administration**

Small Airplane Directorate
Chicago Aircraft Certification Office
2300 E. Devon Avenue
Des Plaines, IL 60018

April 03, 2019

Mr. Andrew Barker
TruTrak Flight Systems, Inc.
1488 S. Old Missouri Rd.
Springdale, AR 72764

Dear Mr. Barker:

This letter is an update to the approval letter issued March 27, 2019 to add the following aircraft to FAA Approved Model List (AML) SA04231CH:

- Cessna 180 (all models listed on FAA Type Certificate number 5A6),
- Cessna 182 (all models listed on FAA Type Certificate number 3A13 and A42EU) and
- Cessna 185 (all models listed on FAA Type Certificate number 3A24).

This updated letter adds the approved, signed Airplane Manual Flight Supplement and amends the AML STC to add the Airplane Manual Flight Supplement revision and date. Enclosed are the following as evidence of FAA design data approval:

- 1) FAA Approved Model List SA04231CH, Amended April 3, 2019.
- 2) The FAA Approved TruTrak Master Document List, Document Number 195, Revision K, dated March 4, 2019, was included in the previous approval letter,
- 3) FAA approved Airplane Flight Manual Supplement, Document Number 176, revision C, dated April 1, 2019.

The approved data should be made available to the FAA upon request as indicated by 14 CFR §§ 21.41, 21.49 and 21.316(g).

Minor and Major changes to type design data must be submitted with all substantiating and required descriptive data (reference §§ 21.93, 21.95, 21.97, 21.319) and approved by the Chicago ACO Branch prior to aircraft installation unless another acceptable method has been approved by the FAA.

Please be aware of your responsibilities under the requirements of 14 CFR § 21.3, regarding the reporting of any failure, malfunction, or defect in any article manufactured under this approval.

If you have any questions regarding this approval, please contact John Raspanti (847) 294-7379, fax (847) 294-7834 or at john.raspanti@faa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Roy E. Boffo". The signature is fluid and cursive, with the first name "Roy" being the most prominent.

Roy E. Boffo
Manager,
Propulsion and Program management Section
Chicago ACO Branch

Enclosures (2)

**FAA APPROVED MODEL LIST (AML) NO. SA04231CH
TRUTRAK FLIGHT SYSTEMS
FOR**

INSTALLATION AND ACTIVATION OF A TRUTRAK VIZION AUTOPILOT SYSTEM

ITEM	AIRCRAFT MAKE	AIRCRAFT MODEL	ORIGINAL TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	INSTALLATION INSTRUCTIONS		AFM SUPPLEMENT NUMBER/DATE	AML AMENDMENT DATE
					NUMBER	REVISION NO. & DATE		
1	Textron Aviation Inc.	172	3A12	As listed in TCDS 3A12 except as noted below: 14 CFR 23 Amendment 49 for the following: 23.1301, 23.1308, 23.1309, 23.1329	TruTrak Document Vizion PMA Installation Guide (166) and TruTrak Document Cessna 172 Autopilot Provisions Installation Guide (147)	(166) Revision A or later FAA approved revision (147)Revision 0.1, or later FAA approved revision.	TruTrak Vizion AFMS (176) Rev B dated 7/10/17 or later FAA approved revision	July 19, 2017
		172A						
		172B						
		172C						
		172D						
		172E						
		172F (USAF T-41A)						
		172G						
		172H (USAF T-41A)						
		172I						
		172K						
		172L						
		172M						
		172N						
172P								
172Q								
172R (non G1000 equipped aircraft only)								
172S (non G1000 equipped aircraft only)								
2	Textron Aviation Inc.	177	A13CE	As listed in TCDS A13CE except as noted below: 14 CFR 23 Amendment 49 for the following: 23.1301, 23.1308, 23.1309, 23.1329	TruTrak Document Vizion PMA Installation Guide (166) and TruTrak Document Cessna 177 Autopilot Provisions Installation Guide (157)	(157) Revision Init, or later FAA approved revision (166) Revision A or later FAA approved revision.	TruTrak Vizion AFMS (176) Rev B dated 7/10/17 or later FAA approved revision	July 19, 2017
		177A						
		177B						

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3	Textron Aviation Inc.	177RG	A20CE	As listed in TCDS A20CE except as noted below: 14 CFR 23 Amendment 49 for the following: 23.1301, 23.1308, 23.1309, 23.1329	TruTrak Document Vizion PMA Installation Guide (166, 169) and TruTrak Document Cessna 177 Autopilot Provisions Installation Guide (157)	(157) Revision Init. or later FAA approved revision (166) Revision A or later FAA approved, (169) revision D or later FAA approved revision.	TruTrak Vizion AFMS (176) Rev B dated 7/10/17 or later FAA approved revision	July 19, 2017

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4	Piper Aircraft, Inc.	PA-28-140 PA-28-151 PA-28-150 PA-28-161 PA-28-160 PA-28-181 PA-28-180 PA-28R-201 PA-28-235 PA-28R-201T PA-28S-160 PA-28-236 PA-28S-180 PA-28RT-201 PA-28R-180 PA-28RT-201T PA-28R-200 PA-28-201T (non G1000 equipped aircraft only)	2A13	As listed in TCDS 2A13 except as noted below: 14 CFR 23 Amendment 49 for the following: 23.1301, 23.1308, 23.1309, 23.1329	TruTrak Document Vizion PMA Installation Guide, Document Number 166, 243	(243) Revision IR, or later FAA approved revision (166) Revision A or later FAA approved.	TruTrak Vizion AFMS (176) Rev B dated 7/10/17 or later FAA approved revision	February 6, 2018

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5	Piper Aircraft, Inc.	PA-32-260 PA-32R-301 (SP) PA-32-300 PA-32R-301 (HP) PA-32S-300 PA-32R-301T PA-32R-300 PA-32-301 PA-32RT-300 PA-32-301T PA-32RT-300T PA-32-301FT PA-32-301XTC (non G1000 equipped aircraft only)	A3SO	As listed in TCDS A3SO except as noted below: 14 CFR 23 Amendment 49 for the following: 23.1301, 23.1308, 23.1309, 23.1329	TruTrak Document Vizion PMA Installation Guide, Document Number 166, 243	(243) Revision IR, or later FAA approved revision (166) Revision A or later FAA approved,	TruTrak Vizion AFMS (176) Rev B dated 7/10/17 or later FAA approved revision	February 6, 2018
6	Textron Aviation Inc.	175 175A 175B 175C P172D R172E (USAF T-41B) (USAF T-41C or D) R172F (USAF T-41D) R172G (USAF T-41C or R172H (USAF T-41D) R172J R172K 172RG	3A17	As listed in TCDS 3A17 except as noted below: 14 CFR 23 Amendment 49 for the following: 23.1301, 23.1308, 23.1309, 23.1329	TruTrak Document Vizion PMA Installation Guide, Document Number 166, 242	(242) Revision IR, or later FAA approved revision (166) Revision A or later FAA approved,	TruTrak Vizion AFMS (176) Rev B dated 7/10/17 or later FAA approved revision	February 6, 2018

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7	Textron Aviation Inc.	180 180A 180B 180C 180D 180E 180F 180G 180H 180J 180K	5A6	As listed in TCDS 5A6 except as noted below: 14 CFR 23 Amendment 49 for the following: 23.1301, 23.1308, 23.1309, 23.1329	TruTrak Document Vizion PMA Installation Guide, Document Number 166, 255	(255) Revision IR, or later FAA approved revision (166) Revision A or later FAA approved.	TruTrak Vizion AFMS (176) Rev C dated April 1, 2019 or later FAA approved revision	April 3, 2019
8	Textron Aviation Inc.	182 (formerly Reims) F182F F182Q FR182	A42EU	As listed in TCDS A42EU except as noted below: 14 CFR 23 Amendment 49 for the following: 23.1301, 23.1308, 23.1309, 23.1329	TruTrak Document Vizion PMA Installation Guide, Document Number 166, 256	(256) Revision IR, or later FAA approved revision (166) Revision A or later FAA approved.	TruTrak Vizion AFMS (176) Rev C dated April 1, 2019 or later FAA approved revision	April 3, 2019

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9	Textron Aviation Inc.	182 182A 182B 182C 182D 182E 182F 182G 182H 182J 182K 182L 182M 182N 182P 182Q 182R 182S 182T R182 T182 TR182 T182T	3A13	As listed in TCDS 3A13 except as noted below: 14 CFR 23 Amendment 49 for the following: 23.1301, 23.1308, 23.1309, 23.1329	TruTrak Document Vizion PMA Installation Guide, Document Number 166, 256	(256) Revision IR, or later FAA approved revision (166) Revision A or later FAA approved,	TruTrak Vizion AFMS (176) Rev C dated April 1, 2019 or later FAA approved revision	April 3, 2019
10	Textron Aviation Inc.	185 185A 185B 185C 185D 185E A185E A185F	3A24	As listed in TCDS 3A24 except as noted below: 14 CFR 23 Amendment 49 for the following: 23.1301, 23.1308, 23.1309, 23.1329	TruTrak Document Vizion PMA Installation Guide, Document Number 166, 255	(255) Revision IR, or later FAA approved revision (166) Revision A or later FAA approved,	TruTrak Vizion AFMS (176) Rev C dated April 1, 2019 or later FAA approved revision	April 3, 2019

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FAA APPROVED:

Roy E Boffo III

Manager, Propulsion and Program Management Section
Chicago ACO Branch

Issued: July 19, 2017

Amended: February 06, 2018; March 27, 2019; April 3, 2019