

United States of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate

Number **SA01015SE**

This certificate, issued to

**ABI, LLC
20130 Birchwood Spur Loop Road
Chugiak, AK 99567**

*certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part * of the * Regulations.*

Original Product—Type Certificate Number:

* See attached Federal Aviation Administration (FAA)

Make:

Approved Model List (AML) SA01015SE for approved

Model:

aircraft models and applicable airworthiness regulations

Description of the Type Design Change: Installation of eligible Alaska Tire and Rubber Company TSO-C62d Tires as listed in AML SA01015SE.

Limitations and Conditions: See limitation notes on AML SA01015SE. THIS SUPPLEMENTAL TYPE CERTIFICATE APPROVAL IS LIMITED TO THE LOAD RATING AND INFLATION PRESSURE RANGE AS IDENTIFIED ON THE TIRE SIDEWALL. (Loads and inflation pressures outside the TSO approval voids this STC approval) Although installation of the larger 'Tundra tires has an adverse effect on performance and handling qualities of the airplane, the FAA has determined these effects were not significant with regard to safety. Pilots should expect a more limited field of view during taxi, a reduced rate of climb, and a deterioration of lateral and directional stability. Tundra tires reduce the airplane's directional stability and controllability during takeoff and landing ground rolls, increase its tendency to ground loop during takeoff and landing ground rolls, and increase its tendency to nose over during landings on paved surfaces more than during landings on gravel, grass, or other surfaces that allow the tires to skid more easily. Approval of this change in type design applies to the aircraft models listed above only. This approval should not be extended to other aircraft of these models on which other previously approved modifications are incorporated unless it is determined that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce to adverse effect upon the airworthiness of the aircraft. A copy of this certificate, the AML, and the FAA Form 337 must be maintained as part of the permanent records for the modified aircraft.

If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: April 25, 2001

Date reissued: March 13, 2014

Date of issuance: November 7, 2001

Date amended:



By direction of the Administrator

(Signature)

Manager, Seattle Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.

United States Of America
Department of Transportation - Federal Aviation Administration

ABI, LLC
81 East Commercial Drive
Palmer, Alaska 99645

Approved Model List (AML)
Number: SA01015SE
Date of Issuance: October 25, 2021

Approved Model List for the ABI, LLC Tundra Tires, 10650 Wheel, and 10650-LW Wheel

Textron Aviation, Inc. (Cessna) (See notes 1, 3, 4, 5)	R172K, 175, 175A, 175B, 175C	3A17	CAR 3, Part 23	Installation Instructions and Instructions for Continued Airworthiness for Alaskan Bushwheel Tundra Tires, ABI- Tire-ICA, Revision A, dated October 6, 2021	Installation Instructions and Instructions for Continued Airworthiness for Alaskan Bushwheel Tundra Tires, ABI-Tire- ICA, Revision A, dated October 6, 2021
Textron Aviation, Inc. (Cessna) (See notes 1, 3)	180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K	5A6	CAR 3	Installation Instructions and Instructions for Continued Airworthiness for Alaskan Bushwheel Tundra Tires, ABI- Tire-ICA, Revision A, dated October 6, 2021	Installation Instructions and Instructions for Continued Airworthiness for Alaskan Bushwheel Tundra Tires, ABI-Tire- ICA, Revision A, dated October 6, 2021

United States of America
Department of Transportation - Federal Aviation Administration
Supplemental Type Certificate

Number **SA01765SE**

This certificate, issued to

**ABI, LLC
20130 Birchwood Loop Spur Road
Chugiak, AK 99567**

*certifies that the change in the type design for the following product with the limitations and conditions therefore as specified hereon meets the airworthiness requirements of Part * of the * Regulations.*

Original Product—Type Certificate Number:

* See attached Federal Aviation Administration (FAA)

Make:

Approved Model List (AML) SA01765SE for approved

Model:

aircraft models and applicable airworthiness regulations

Description of the Type Design Change: Installation of Alaskan Bushwheel TSO-C26d wheels, Part Number (P/N) ABI-1010, as listed in FAA AML SA01765SE.

Limitations and Conditions: See limitation notes on AML SA01765SE. This STC approval is for P/N ABI-1010 wheels used with either of the following: any FAA TSO-C62 revision approved 29 X 11 – 10, 4 ply tube type tire; or any FAA TSO-C62 revision approved 8.50 -10, 6 ply tube type tire. Tire must be rated at, or above, the weight and speed rating of the aircraft. Approval of this change in type design applies to the aircraft models listed above only. This approval should not be extended to other aircraft of this model on which other previously approved modifications are incorporated unless it is determined that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effects upon the airworthiness of that aircraft. A copy of this certificate, AML and FAA Form 337 must be maintained as part of the permanent records for the modified aircraft.

If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: April 12, 2007

Date reissued: March 13, 2014

Date of issuance: May 31, 2007

Date amended: September 29, 2011



By direction of the Administrator

(Signature)

Manager, Seattle Aircraft Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.

**FEDERAL AVIATION ADMINISTRATION (FAA) APPROVED MODEL LIST (AML) SA01765SE
FOR
INSTALLATION OF WHEELS**

ISSUE DATE: May 31, 2007

ITEM	AIRPLANE MAKE	AIRPLANE MODEL	TYPE CERTIFICATE NUMBER	CERTIFICATION BASIS FOR ALTERATION	ELIGIBLE ALASKAN BUSHWHEEL INC. TSO-C26d WHEEL PART NUMBERS	INSTAL. INST. DOCUMENT NUMBER REVISION	ICA DOCUMENT NUMBMER REVISION	AML AMDT DATE
9.	Cessna ^{1,2}	170, 170A, 170B	A-799	CAR 3	ABI-1010 Wheel ⁵	ABI1010-IM 4/11/2007	ABI-WHEEL-ICA 10/2/2012	10/11/2012
10.	Cessna ^{1,2,3 or 4}	172, 172A, 172B, 172C, 172D, 172E, 172F (USAF T-41A), 172G, 172H (USAF T-41A), 172I, 172K, 172L, 172M, 172N, 172P, 172Q, 172R, 172S	3A12	CAR 3 FAR 23, 36	ABI-1010 Wheel ⁵	ABI1010-IM 4/11/2007	ABI-WHEEL-ICA 10/2/2012	10/11/2012
11.	Cessna ^{1,2,3 or 4}	R172K, 175, 175A, 175B, 175C	3A17	CAR 3 FAR 23	ABI-1010 Wheel ⁵	ABI1010-IM 4/11/2007	ABI-WHEEL-ICA 10/2/2012	10/11/2012
12.	Cessna ^{1,2}	180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K	5A6	CAR 3	ABI-1010 Wheel ⁵	ABI1010-IM 4/11/2007	ABI-WHEEL-ICA 10/2/2012	10/11/2012
13.	Cessna ^{1,2,3 or 4}	182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H, 182J, 182K, 182M, 182N, 182P, 182Q, 182R, 182S, 182T	3A13	CAR 3, FAR 23	ABI-1010 Wheel ⁵	ABI1010-IM 4/11/2007	ABI-WHEEL-ICA 10/2/2012	10/11/2012
14.	Cessna ^{1,2}	185, 185A, 185B, 185C, 185D, 185E, A185E, A185F	3A24	CAR 3	ABI-1010 Wheel ⁵	ABI1010-IM 4/11/2007	ABI-WHEEL-ICA 10/2/2012	10/11/2012
15.	Cessna ^{1,2,4}	206, U206, P206A, TP206A, TU206A, U206A, P206B, TP206B, TU206B, U206B, P206C, TP206C, TU206C, U206C, P206D, TP206D, TU206D, U206D, P206E, TP206E, U206E, TU206F, U206F, TU206G, U206G, 206H, T206H	A4CE	CAR 3 FAR 23	ABI-1010 Wheel ⁵	ABI1010-IM 4/11/2007	ABI-WHEEL-ICA 10/2/2012	10/11/2012
16.	Cessna ^{1,2,4}	207	A16CE	FAR 23	ABI-1010 Wheel ⁵	ABI1010-IM 4/11/2007	ABI-WHEEL-ICA 10/2/2012	10/11/2012