United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

Number SA615EA

This certificate issued to:

Whelen Aerospace Technologies
51 Winthrop Road
Chester, Connecticut 06412-0684

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 3, 6, 23, and 27 of the Civil Air / Federal; Aviation Regulations.

Original Product - Type Certificate Number: See attached Eligibility List dated May 2, 2018.

Description of Type Design Change:
Installation of Whelen Anti-Collision Strobe Light Systems, Part Number 01-0770006-( ), 01-0770028-( ), 01-0770029-( ), 01-0770062-( ), 01-0770900-( ), 01-0771055-( ), 01-0771080-( ), and 01-0790520-( ) and Model Number OR36() as replacement for originally installed anti-collision lights, when installed in accordance with Whelen Anti-Collision Light Systems Installation and Service Manual, Document
No. 05131, Rev E, dated May 2019, or later FAA-approved revision.

Limitations and Conditions: See Page 3

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

Date of Application: February 19, 1968
Date of Issuance: May 14, 1968

Date reissued: June 10, 2019
Date amended: May 30, 2019

By direction of the Administrator

Signature _____
Nicholas Faust

Acting Manager, Boston ACO Branch
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 or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).

United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

INSTRUCTIONS: The transfer endorsement below may be used to notify the appropriate FAA Aircraft Certification Office of the transfer of this Supplemental Type Certificate. The FAA will reissue the certificate in the name of the transferee and forward it to him.

TRANSFER ENDORSEMENT

*Transfer the ownership of Supplemental Type Certificate Number:*_____

To *(Name and address of transferee)*

Name:

_____

Address (*Number and Street, City, State, and ZIP Code):*

_____

From *(Name and address of grantor)*

Name:

_____

Address (*Number and Street, City, State, and ZIP Code):*

_____

Extent of Authority (if licensing agreement):

_____

*Date of Transfer:*_____

*Signature of grantor:*_____

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 or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).

United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)
Number SA615EA
June 10, 2019

Limitations and Conditions:

1. These lights comply with the anti-collision light standards of the FARs as follows:
   a. With the red or combined red/white lens; those effective on or prior to August 10, 1971.
   b. With the white lens; those effective on August 11, 1971.

2. Install the following placard Whelen Part No. A421, or other FAA approved equivalent:

WARNING

TO AVOID OPTICAL ILLUSION AND SEVERE VERTIGO, TURN ANTI-COLLISION LIGHTS OFF UPON ENTERING CLOUDS, FOG OR HAZE

3. The aircraft listed on the Eligibility List are those which have had both the physical installation of the lights substantiated and the field of coverage checked including the 20° mask. Aircraft not included in the list can use these lights when the physical installation and field of coverage is substantiated as indicated in the Whelen Anti-Collision Light Systems Installation and Service Manual, June 2010, Document No. 05131, Rev E, or later FAA-approved revision, section titled "Aircraft Not Specifically Mentioned on the Eligibility List".

4. The approval of this change in type design applies basically to aircraft listed on the attached eligibility list. This approval should not be extended to other aircraft of these models on which other previously approved modifications are incorporated unless it is determined by the installer that the interrelationship between this change and any of those other previously approved modifications will introduce no adverse effect upon the airworthiness of the aircraft. This determination should include a night flight check as specified in AC 43.13-2, Chapter 4, Paragraph 42a.

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 or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).

Supplemental Type Certificate

(Continuation Sheet)
Number SA615EA
June 10, 2019

Limitations and Conditions (continued):

5. Maintenance of Model Number OR36() lights must be in accordance with the Instructions for Continued Airworthiness, Whelen document numbers 14B88/14B89/14B90/14B91/14B92/14B93 all Revision A or later FAA accepted revision.

NOTE: Aircraft whose application for type certificate was made before April 1, 1957, may, but need not, comply with the field of coverage requirements of FAR 23(27).1401(b). Compliance with FAR 91.33(c) may be shown provided the light installation is in accordance with data approved prior to August 11, 1971, and the applicable criteria of Advisory Circular 43.13-2 are met.

AMENDMENT History:

This STC has been previously amended on the following dates:

7/15/68, 7/19/68, 11/25/68; 1/17/69, 2/18/69, 4/18/69; 3/3/70, 12/10/70; 4/21/71, 9/14/71; 5/18/72, 9/22/72, 11/7/72; 7/21/76; 10/4/78; 3/26/81, 8/5/81, 8/25/81; 5/21/82; 7/16/91; 6/7/99; 6/18/99; 6/17/05, 2/22/07, 5/5/10.

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 or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).

United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)
Number SA615EA
June 10, 2019

Eligibility List May 2, 2018

Aircraft Manufacturer	Model	Type Certificate
Aero Commander	*100, 100-180	1A21
	111	A11SO
	112	A12SO
	500, 500-A, 500-B, 500-S, 500-U, 520, 560, 560A, 560E	6A1
	560F, 680, 680E, -F, 720, 680FL, 680FL(P), 680T, V, W, 681, 690, 685	2A4
American Aviation	*AA-1, *AA-1A	A11EA
	AA-5	A16EA
Beech	23, A23, A23A, A23-19, -24, -19A, B19, M19A, B23, C23, A24, A24R	A1CE
	35, A35, B35, C35, D35, E35, F35, G35, 35R	A-777

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 or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).

United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)
Number SA615EA
June 10, 2019

Aircraft Manufacturer	Model	Type Certificate
Beech (continued)	H35, J35, K35, M35, N35, P35, S35, V35, V35A, V35B, 35-33, 35-A33, 35-B33, 35-C33, 35-C33A, 36, A36, A36TC, B36TC, G36, E33, E33A, E33C, F33, F33A, F33C	3A15
	50(L-23A), B50(L-23B), C50, D50(L-23E), D50A, D50B, D50C, D50E, E50(L-23D, RL-23D), F50, G50, H50, J50	5A4
	95-55, 95-A55, 95-B55, 95-B55B(T-42A), 95-B55D, 95C55, 95, B95, B95A, D95A, E95, D55, D55A, E55, E55A, 56TC, A56TC, 58	3A16
	65(L23F), A65, A65-8200, 65-8200, 65-80, 65-A80-8800, 65-B80, 65-88, B90, C90, 65-90, 65-A90, 65-A90-1, (U-21A, RU-21A, RU-21D), 65-A90-2, (RU-21B), 65-A90-3 (RU-21C), 70	3A20
	60, A60	A12CE
	99, 99A, 100	A14CE
Bellanca	14-19-3A, 17-30	1A3
	17-30A, 17-31A, 17-31ATC	A18CE

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 or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).

United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)
Number SA615EA
June 10, 2019

Aircraft Manufacturer	Model	Type Certificate
Bellanca (continued)	7EC, 7ECA, 7FC, 7GC, 7GCA, 7GCAA, 7GCB, 7GCBA, 7GCBC, 7HC, 7JC, 7KCAB	A-759
Bell	206A, 206B, 206L, 206L-1, 206L-3, 206L-4, 407	H2SW
	47B, B3, D, D1, E, G, G-2, H-1	H-1
	47G-2A, -2A-1, -3, -3B, -3B-1, -3B-27, 4, -4A, -5, -5A	2H3
	47J, K, J-2, J-2A	2H1
Britten Norman	BN-2, -2A, -2A-2, -2A-6, -2A-8	A17EU
	BN-2A, MK.III	A29EU
Cessna	150, 150A, B, C, D, E, F, G, H, J, K, L, M, A150K, A150L, A150M, 152, A152	3A19
	172, 172A, B, C, D, E, F, G, H, I, K, L, M, N, P	3A12
	175, 175A, B, C, P172D, 172RG	3A17
	177, 177A, B	A13CE
	177RG	A20CE

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 or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).

United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)
Number SA615EA
June 10, 2019

Aircraft Manufacturer	Model	Type Certificate
Cessna (continued)	180, 180A, B, C, D, E, F, G, H, J, K	5A6
	182, 182A, B, C, D, E, F, G, H, J, K, L, M, N, P, Q, R, T182, R182, TR182	3A13
	185, 185A, B, C, D, E, A185E, A185F	3A24
	188, 188A, B, A188, A188A, A188B, T188C	A9CE
	206, P206, P206A, B, C, D, E, TU206A, B, C, D, E, F, G, TP206A, B, C, D, E, U206, U206A, B, C, D, E, F, G	A4CE
	207, 207A, T207, T207A	A16CE
	210, 210A, 210B, 210C, 210D, 210E, 210F, T210F, 210G, T210G, 210H, T210H, 210J, T210J, 210K, 210-5(205), 210-5A(205A), T201K, 210L, T210L, T210M, T210N, 210N, P210N	3A21
	310, 310A, B, C, D, E, F, G, H, I, J, 310J-1, E310J, 310K, L, N, P, T310P, 310Q, T310Q	3A10

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 or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).

United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)
Number SA615EA
June 10, 2019

Aircraft Manufacturer	Model	Type Certificate
Cessna (continued)	*320, A, B, C, D, E, F, 320-1, 340, 340A	3A25
	*336	A2CE
	337, 337A, B, C, D, E, F, T337D, E, F, G	A6CE
	*401, 401A, B, 402, 402A, B, 411, 411A, 421, 421A, 414, 421B	A7CE
DeHavilland of Canada	DHC-2, MK. I, MK. II, MK. III	A-806
	DHC-3	A-815
	DHC-6, Models 1, 100, 110, 200, 210, 300	A9EA
Fairchild Hiller	FH-1100	H2WE
Helio	H-250, H-295, H-391, H-391B, H-395, H-395A	1A8
Hughes	269A, 269A-1, 269B, 269C	4H12
	369, A, H, HM, HS, HE, 369D, 369E, 369F, 369FF, 500N, 600N	H3WE
Piper	**PA-11	A-691
	**PA-12	A-780

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 or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).

United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)
Number SA615EA
June 10, 2019

Aircraft Manufacturer	Model	Type Certificate
Piper (continued)	**PA-14	A-797
	**PA-15	A-800
	**PA-16	1A1
	**PA-17	A-805
	**PA-18 Series, PA-19	1A2
	**PA-20 Series	1A4
	**PA-22 Series	1A6
	**PA-25 Series	2A8
	PA-23, PA-23-160, *PA-23-235, *PA-23-250, *PA-E23-250	1A10
	PA-24, -24-250, -24-260, -24-400	1A15
	PA-28-140, -28-150, -28-151, -28-160, -28-161, -28-180, -28-235, -28S-160, -28R-180, -28S-180, -28-181, -28R-200, -28R-201, -28R-201T, -28RT-201, -28RT-201T, -28-201T, -28-236	2A13
	PA-30, PA-39	A1EA
	PA-31P	A8EA

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 or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).

United States of America
Department of Transportation
Federal Aviation Administration

Supplemental Type Certificate

(Continuation Sheet)
Number SA615EA
June 10, 2019

Aircraft Manufacturer	Model	Type Certificate
Piper (Continued)	PA-31, PA-31-300, 325, 350	A20SO
	PA-32-260, -300, -32S-300	A3SO

NOTES TO ELIGIBILITY LIST:

*1. Aircraft as marked require specific attention to proper balancing of the rudder. Refer to the Manufacturer's Service Manual for balancing instructions.

**2. Installations on these aircraft require prior or concurrent installation of STC SA4-977.

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 or made available to third persons by licensing agreements in accordance with 14 CFR 21.47. Possession of this Supplemental Type Certificate (STC) document by persons other than the STC holder does not constitute rights to the design data nor to alter an aircraft, aircraft engine, or propeller. The STC's supporting documentation (drawings, instructions, specifications, flight manual supplements, etc.) is the property of the STC holder. An STC holder who allows a person to use the STC to alter an aircraft, aircraft engine, or propeller must provide that person with written permission acceptable to the FAA. (Ref. 14 CFR 21.120).

PIONEERS IN SAFETY SIGNALS

WHELEN®

ENGINEERING COMPANY, INC.

AVIATION DIVISION

Effective: November 1, 2006

Subject: Whelen STC Permission Statement

To Whom It May Concern:

Whelen Engineering Company hereby authorizes qualified aviation installers to use the following STC installation data to modify aircraft for installation of Whelen Anti-Collision lighting systems:

SA615EA
SA800EA
SA6NE
SA21NE
ST00101BO
SA02212AK
SA00344BO
SR02394AK
SR00359BO

Jeff Argersinger
Director
Aviation Lighting Products

ROUTE 145, WINTHROP ROAD, CHESTER, CT, USA 06412-0684 TELEPHONE: (860) 526-9504 FAX: (860) 526-2009