United States Of America

Department of Transportation - Federal Aviation Administration

Supplemental Type Certificate

Number ST01930LA

This Certificate issued to

Sandel Avionics, Inc.
2401 Dogwood Way
Vista, California 92083

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

Original Product Type Certificate Number: *** See attached Approved Model List (AML)**

Make: **No. ST01930LA for list of approved aircraft**

Model: **Models and applicable airworthiness regulations**

Description of Type Design Change: **Installation of Sandel Avionics SA4550 Primary Attitude Display and SN4500 Primary Navigation Display in accordance with FAA Approved Sandel Avionics Approved Model List, Document No. ST12361LA-T-16, Revision "Orig.", dated June 15, 2007, or later FAA approved revision. FAA Approved Sandel Avionics SA4550 Airplane Flight Manual Supplement, Supplement No. ST12361LA-T-10, Revision "Orig.", dated June 4, 2007, or later FAA approved revision. FAA Approved Sandel Avionics SN4500 Airplane Flight Manual Supplement, Supplement No. ST12361LA-T-30, Revision "Orig.", dated October 30, 2006, or later FAA approved revision.**

Limitations and Conditions: **This approval should not be incorporated in any aircraft unless it is determined that the interrelationship between this installation and any previous approved configuration will not introduce any adverse effect upon the airworthiness of the aircraft.**
If the holder agrees to permit another person to use this certificate to alter the product, the holder must 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

Date of application: March 8, 2006

Date of issuance: October 30, 2006

Date reissued: August 4, 2009

Date amended: June 15, 2007, March 6, 2009

By direction of the Administrator

(Signature)

Project Manager, Systems & Equipment Branch,
Los Angeles 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.

Sandel Avionics, Inc.
2401 Dogwood Way
Vista, CA 92081

FAA Approved Model List (AML)

For

STC ST01930LA

Installation of Sandel SA4550 Primary Attitude Display
And
Installation of Sandel SN4500 Primary Navigation Display

Document: ST12361LA-T-16
Revision: E
Date: July 22, 2008

APPROVED BY: Blake J. Figueroa

Project Manager, Systems and Equipment Branch
Federal Aviation Administration
Los Angeles Aircraft Certification Office
Transport Airplane Directorate

Original Issue Date: June 15, 2007

DATE: July 24, 2008

LOG OF PAGES

REV	PAGE NO.	PAGE DATE	DESCRIPTION	FAA APPROVED
E	Title Log(i) 4 16-18 19 All	07-22-08 07-22-08 07-22-08 07-22-08 07-22-08 07-22-08	Update for revision E Update for revision E changes. Add aircraft with King KCI 310/310A to Table 1. Added King KCI 310/310A model part numbers to Table 2. Notes moved here. Update headers and footers.	DTH 7/24/08
D	Title Log(i) 15	05-29-08 05-29-08 05-29-08	Update for revision D Update for revision D changes and corrected Rev C page dates. Added Collins ADI 70C model part numbers to Table 2.	
C	Title Log(i) 1-4 9-15 15	02-28-08 02-28-08 02-28-08 02-28-08 02-28-08	Update for revision C Update for revision C changes. Update/add aircraft models Added Collins ADI 84, ADI84A and ADI329B-7R model part numbers to Table 2. Added note 2.	
B	1 11	12-15-07 12-15-07	Update MDL revision par. 1 Revised note.	
A	Title Log(i) 3 thru 11	10-12-07 10-12-07 10-12-07	Update for revision A Update for revision A changes. Added Sperry AD-500A, 500B, 500C, AD-600, 600A, 600B, 600C, and Hz-454 model part numbers to Table 2. Added note for attitude comparator IO.	
Orig	Title Log (i) 1 2 3 4 5	5-21-07 5-21-07 5-21-07 5-21-07 5-21-07 5-21-07 5-21-07	Original Issue	

For installation of Sandel SN4500 Primary Navigation Display, reference Sandel document ST12361LA-T-01 "Mater Drawing List", Revision H dated December 15, 2007 or later approved FAA revision.

The SA4550 is approved for installation in the listed aircraft in Table 1 when replacing a listed display listed in Table 2.

Table 1: SA4550 Approved Aircraft Installations

Aircraft Make and Model Designation	Type Certificate Number	Certification Basis	Required Approved Data & Added Model Specific Limitations	AML Revision Level
Hawker Beechcraft (Raytheon Aircraft Corporation)				
(Diamond I/IA) MU-300	A14SW	FAR 25	ST12361LA-T-01 82010-IM	Original
(Beechjet/Diamond II) 400, MU-300-10	A16SW	FAR 25	ST12361LA-T-01 82010-IM	Original
(King Air) 65-90, 65-A-90, B-90, C-90A	3A20	CAR 3	ST12361LA-T-01 82010-IM	Original
(King Air) C90, E90	3A20	CAR 3	ST12361LA-T-01 82010-IM	C
(King Air) 100, A100, B100	A14CE	FAR 23	ST12361LA-T-01 82010-IM	Original
(King Air) 200, 200C, 200T, B200, B200T	A24CE	FAR 23 FAR 25	ST12361LA-T-01 82010-IM	Original
(King Air) B200C	A24CE	FAR 23 FAR 25	ST12361LA-T-01 82010-IM	C
(King Air) 300	A24CE	FAR 23 FAR 25	ST12361LA-T-01 82010-IM	C
(King Air) F90	A31CE	FAR 23	ST12361LA-T-01 82010-IM	Original
(Hawker) DH.125-1A, DH.125-3A/RA, DH-125-3A,, DH.125-400A, HS.125-700A	A3EU	CAR 4 CAR 10	ST12361LA-T-01 82010-IM	C
(Hawker) DH.125-1A/S-522, BH.125-400A, HS.125-600A	A3EU	CAR 10 FAR 25	ST12361LA-T-01 82010-IM	C
(Hawker) HS.125 F400B	A3EU	FAR 25	ST12361LA-T-01 82010-IM	C
Cessna Aircraft Company				

Aircraft Make and Model Designation	Type Certificate Number	Certification Basis	Required Approved Data & Added Model Specific Limitations	AML Revision Level
(Citation) 500, 550, S550, 560	A22CE	FAR 25	ST12361LA-T-01 82010-IM	Original
(Citation) 650	A9NM	FAR 25	ST12361LA-T-01 82010-IM	Original
(Citation) 501, 551	A27CE	FAR 23	ST12361LA-T-01 82010-IM	Original
(Conquest I) 425	A7CE	CAR 3 FAR 23	ST12361LA-T-01 82010-IM	Original
(Conquest II) 441	A28CE	FAR 23	ST12361LA-T-01 82010-IM	Original
Mitsubishi Heavy Industries, Ltd.				
(MU-2) MU-2B-20, MU-2B-25, MU-2B-26, MU-2B-35, MU-2B-36	A2PC	CAR 3 CAR 10	ST12361LA-T-01 82010-IM	Original
(MU-2) MU-2B-26, MU-2B-26A, MU-2B-35, MU-2B-36, MU-2B-36A, MU-2B-40, MU-2B-60	A10SW	CAR 3	ST12361LA-T-01 82010-IM	Original
British Aerospace				
(Jetstream 31) Jetstream Series 3101	A21EU	FAR 23 FAR 25 FAR 21 (Sec. 21.29)	ST12361LA-T-01 82010-IM	Original
(Jetstream 32) Jetstream Series 3201	A56EU	FAR 23 FAR 21 (Sec. 21.29)	ST12361LA-T-01 82010-IM	C
Bombardier				
(Challenger 600) CL-600, (Challenger 601) CL-601	A21EA	FAR 25	ST12361LA-T-01 82010-IM	C
Avions Marcel Dassault - Breguet Aviation				
Falcon 10	A33EU	FAR 25	ST12361LA-T-01 82010-IM	Original
Dassault Aviation				
Falcon 20F	A7EU	FAR 25	ST12361LA-T-01 82010-IM	Original

Aircraft Make and Model Designation	Type Certificate Number	Certification Basis	Required Approved Data & Added Model Specific Limitations	AML Revision Level
Falcon 50	A46EU	FAR 25 FAR 21 (Sec. 21.29)	ST12361LA-T-01 82010-IM	C
Fan Jet Falcon	A7EU	FAR 25 CAR 4b	ST12361LA-T-01 82010-IM	C
(Falcon 20) Mystere-Falcon 20 E-5	A7EU	CAR 4b FAR 25	ST12361LA-T-01 82010-IM	C
Falcon 20C, 20D, 20E	A7EU	CAR 4b FAR 25	ST12361LA-T-01 82010-IM	C
Gulfstream Aerospace				
Gulfstream G-II, G-IIB, G-III	A12EA	FAR 25	ST12361LA-T-01 82010-IM	Original
(G-I) G-159	1A17	CAR 4b	ST12361LA-T-01 82010-IM	C
M7 Aerospace LP (Swearingen, Fairchild Aircraft Corporation)				
(Merlin) SA226-AT, SA226-T(B), SA227-TT, SA227-AT	A5SW	CAR 3 FAR 23	ST12361LA-T-01 82010-IM	C
(Merlin) SA26-T, SA26-AT, SA226-T	A5SW	CAR 3	ST12361LA-T-01 82010-IM	C
Learjet				
(Learjet) 24, 24A, 24B, 24D, 24E, 24F, 25, 25B, 25C, 25D, 28, 35, 35A, 36, 36A, 55	A10CE	FAR 25	ST12361LA-T-01 82010-IM	C
(Learjet) 23	A5CE	CAR 3	ST12361LA-T-01 82010-IM	C
Lockheed				
(Jetstar) 1329-25	2A15	CAR 4b	ST12361LA-T-01 82010-IM	C
Piper Aircraft, Inc.				
(Cheyenne 400LS) PA-42-1000	A23SO	FAR 23	ST12361LA-T-01 82010-IM	C
(Cheyenne IIIA) PA-42-720	A23SO	FAR 23	ST12361LA-T-01 82010-IM	C

Aircraft Make and Model Designation	Type Certificate Number	Certification Basis	Required Approved Data & Added Model Specific Limitations	AML Revision Level
(Cheyenne I,IA) PA-31T1 (Cheyenne II) PA-31T (Cheyenne IIXL) PA-31T2	A8EA	CAR 23 FAR 23	ST12361LA-T-01 82010-IM	E
(Cheyenne III) PA-42	A23SO	FAR 23	ST12361LA-T-01 82010-IM	E
Twin Commander Aircraft Corporation (Gulfstream, Aero Commander, Rockwell)				
(Commander) 690A, 690C, 690D, 695, 695A	2A4	CAR 3 FAR 23	ST12361LA-T-01 82010-IM	C
(Turbo Commander) 690B	2A4	CAR 3 FAR 23	ST12361LA-T-01 82010-IM	E
Israel Aircraft Industries, Ltd				
(Jet Commander) 1121, 1121A (Westwind) 1124, 1124A	A2SW	CAR4b	ST12361LA-T-01 82010-IM	C
Sabreliner Corporation				
(Sabreliner) NA-265-40, NA-264-60	A2WE	CAR 4b FAR 25	ST12361LA-T-01 82010-IM	C
(Sabreliner 80, 80A) NA-265-80	A2WE	CAR 4b FAR 25	ST12361LA-T-01 82010-IM	E