

# \* Hvordan dokumentere korrekt

Annex IV to ED Decision 2015/016/R

*European Aviation Safety Agency*

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**Certification Specifications**

**for**

**Standard Changes**

**and**

**Standard Repairs**

EASA har regulert dette med tilhørende formularer - også for seilfly

## LIST OF STANDARD CHANGES

### Group Systems—Communication:

CS-SC001a — Installation of VHF voice communication equipment

CS-SC002a — Installation of a Mode S elementary surveillance equipment

CS-SC003a — Installation of Audio Selector Panels and Amplifiers

CS-SC004a — Installation of antennas

## Group Systems – Electrical:

CS-SC031a – Exchange of conventional Anti-Collision Lights, Position Lights and Landing & Taxi lights by LED type lights

## Group Systems – Avionics/NAV/Instruments:

CS-SC051a – Installation of 'FLARM' equipment

CS-SC052a – Installation of moving-map systems to enhance situational awareness

CS-SC053a – Installation of Radio Marker Receiving equipment

CS-SC054a – Exchange of Distance Measurement Equipment (DME)

CS-SC055a – Exchange of ADF equipment

CS-SC056a – Exchange of VOR equipment

Group Cabin:

CS-SC101a – Installation of Emergency Locator Transmitter (ELT) equipment

Group Survivability Equipment:

CS-SC151a – Installation of headrest

CS-SC152a – Changes to seat cushions including the use of alternative foam materials

CS-SC153a – Exchange of safety belts – torso restraint systems

## Group Miscellaneous:

CS-SC401a – Exchange of  
basic flight instruments

CS-SC402a – Installation of  
sailplane equipment

Applicability/Eligibility;

Aeroplanes not being complex motor-powered aircraft, rotorcraft not being complex motor-powered aircraft and any **ELA2 aircraft.**

ELA2 means the following manned European Light Aircraft;

(a) an aeroplane with a Maximum Take-off Mass (MTOM) of 2 000 kg or less that is not classified as complex motor-powered aircraft;

(b) a sailplane or powered sailplane of 2 000 kg MTOM or less;

(c) a balloon;

(d) a Very Light Rotorcraft with a MTOM not exceeding 600 kg which is of a simple design, designed to carry not more than two occupants, not powered by turbine and/or rocket engines; restricted to VFR day operations.’”

Eksempel på beskrivelser her for antenner ( som vi går fort forbi nå....)

### Acceptable methods, techniques and practices

The following standards contain acceptable data:

- FAA Advisory Circular AC 43.13-2B, Chapter 1 & 3; and
- FAA Advisory Circular AC 43.13-1B, Chapter 11, Section 15 (on electrical bonding).

Additionally, the following applies:

- The antenna is installed in non-pressurised secondary structure areas, unless the location is set for this purpose in the airframe documentation or provided by the TC holder (i.e. NTO), or the antenna is being exchanged and has the same footprint.
- The antenna is located in a distance to other antennas appropriate for the aircraft and the antennas.
- The antenna is compatible with the connected equipment and is suitable for the environmental conditions to be expected during normal operation.
- For aircraft certified to operate in known icing conditions, the new antenna is located at the same position and has a size similar to that of the existing antenna being replaced.
- Instructions and tests defined by the equipment manufacturer have to be followed.
- The performance of the new antenna installation or of the new antenna type has to be confirmed during testing after installation (e.g. range of radio).



Standard Change CS-SC051a

## INSTALLATION OF 'FLARM' EQUIPMENT

Installation of FLARM® compatible Anti-Collision Awareness Systems. The system is based on the specifications as defined by FLARM Technology GmbH.

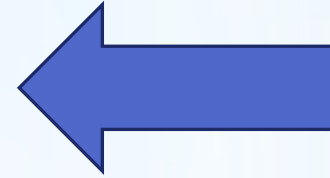
Legg merke til følgende:

The installation of external antennas or additional batteries is not covered by this SC.

Ergo dette er beskrevet under hhv antenner og batterier I det samme CS- STAN dokument

Standard Change CS-SC052a

INSTALLATION OF MOVING-MAP SYSTEMS  
TO ENHANCE SITUATIONAL AWARENESS



1. Purpose

Installation or exchange of a 'moving-map' system to enhance situational awareness. This SC does not include installation of external antennas.

2. Applicability/Eligibility

ELA2 aircraft.

Hvis man vil skifte ut det som står i Typesertifikatet

Standard Change CS-SC401a

EXCHANGE OF BASIC FLIGHT INSTRUMENTS



1. Purpose

Exchange of basic flight instruments with new equipment applicable to:

- airspeed instruments;
- turn and slip instruments;
- bank and pitch instruments;
- direction instruments;
- vertical velocity instruments; and
- pressure-actuated altimeter instruments.

This SC does not entitle the installation of digital multifunction displays.

Standard Change CS-SC402a

## INSTALLATION OF SAILPLANE EQUIPMENT

### 1. Purpose

Installation of gliding equipment considered as a 'standard part'

in accordance with AMC 21.A.303 (c) 2 (i.e. electrical variometers, bank/slip indicators ball type, total energy probes, capacity bottles (for variometers), final glide calculators, navigation computers, data loggers, barographs, cameras and bug wipers).

**The installation of external antennas or additional batteries is not covered by this SC ( vi må se i eget avsnitt)**

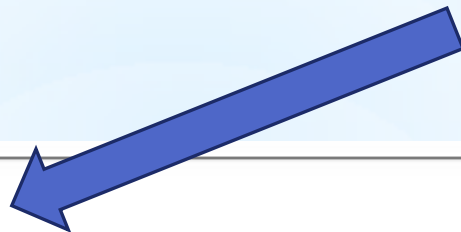
### 2. Applicability/Eligibility

Sailplanes and powered sailplanes, as defined in ELA2.

# EASA Form 123

Form		123
Issue		1
Revision		0
EASA Form 123 — Standard Change/Standard Repair		1 SC/SR number(s):
2 SC/SR title & description: INSTALLATION OF VHF 8.33KHz COM EQUIPMENT		
3 Applicability: LN-GSHASH26 E		
4 List of parts (description/Part-No/Qty): REMOVED COM p/n Becker AR 4201, s/n 77161VHF COM. FITTED TQ-Dittel KRT2 s/n 02419 VHF 8.33KHz Capable COM. Copies of these manuals are provided to the aircraft owner.		
5 Operational limitations/affected aircraft manuals. Copies of these manuals are provided to the aircraft owner. TQ-Dittel KRT 2 COL Operation Manual/PN 01239-00		
6 Documents used for the development and embodiment of this SC/SR: TQ-Dittel KRT 2 COL Installation Manual/PN 01239-01 TQ-Dittel KRT 2 COL Operation Manual/PN 01239-00* * -Copies of the documents marked with an asterisk are handed to the aircraft owner.		
7 Instructions for continuing airworthiness. Copies of these manuals are provided to the aircraft owner. TQ-Dittel KRT 2 COL Operation Manual/PN 01239-00*		
8 Other information: NA		
9a <input type="checkbox"/> This SC complies with the criteria established in 21A.90B(a) and with chapter(s) of Certification Specifications CS-STAN.		
9b <input type="checkbox"/> This SR complies with the criteria established in 21A.431B(a) and with chapter(s) of Certification Specifications CS-STAN.		
10 Date of SC/SR embodiment: 11.12.2016		11 Identification data and signature for the person responsible for the embodiment of the SC/SR:
12 Signature of the aircraft owner. This signature attests that all relevant documentation is handed over to the organisation to the aircraft owner, and, therefore, the latter becomes aware of any impact or limitations on operations or additional continuing airworthiness requirements which may apply to the aircraft due to the embodiment of the change/repair.		Signature:
Name:		Date:

# EASA Form 123 a)



Organisasjon	Form	123
	Issue	1
	Revision	0

<b>EASA Form 123 — Standard Change/Standard Repair (SC/SR) embodiment record</b>	1. SC/SR number(s):
2. SC/SR title & description: INSTALLATION OF VHF 8.33KHz COM EQUIPMENT	
3. Applicability: LN-GSH ASH 26 E	
4. List of parts (description/Part-No/Qty): REMOVED COM p/n Becker AR 4201, s/n 77161VHF COM. FITTED TQ-Dittel_KRT2 s/n 02419 VHF 8.33KHz Capable COM	
5. Operational limitations/affected aircraft manuals. Copies of these manuals are provided to the aircraft owner: TQ-Dittel KRT 2 COL Operation Manual PN 01239-00	
6. Documents used for the development and embodiment of this SC/SR:  TQ-Dittel KRT 2 COL <u>innstallation</u> Manual PN 01239-01 TQ-Dittel KRT 2 COL Operation Manual PN 01239-00*	
* -Copies of the documents marked with an asterisk are handed to the aircraft owner.	

# EASA Form 123 b)

7. Instructions for continuing airworthiness. Copies of these manuals are provided to the aircraft owner: TQ-Dittel KRT 2 COL Operation Manual PN 01239-00		
8. Other information: NA		
9a. <input type="checkbox"/> This SC complies with the criteria established in <u>21A.90B(a)</u> and with chapter(s) CS-001a of Certification Specifications CS-STAN.		
9b. <input type="checkbox"/> This SR complies with the criteria established in <u>21A.431B(a)</u> and with chapter(s).....NA..... of Certification Specifications CS-STAN.		
10. Date of SC/SR embodiment: 11.12.2016	11. Identification data and signature for the person responsible for the embodiment of the SC/SR: <b>Tekniker navn &amp; nummer</b>	
12. Signature of the aircraft owner. This signature attests that all relevant documentation is handed over from the <u>organisation</u> to the aircraft owner, and, therefore, the latter becomes aware of any impact or limitations on operations or additional continuing airworthiness requirements which may apply to the aircraft due to the embodiment of the change/repair.		
Name:	Signature:	Date:

Eier signerer



# Oppdatere Melwin CAMO:

Part M
NLF CAMO

Administrator Baartvedt Ole, HALLINGDAL FLYKLUBB/SEILFLY Logg ut

Mode

Plane/Component  
 Component type

Reports

Adress List  
Work Order Report  
Group Report  
Return Date Report  
ARC due list  
Ready for ARC  
Stop warnings

Aircraft  
 Sailplane  
Year

Search

Component

<b>Component Group:</b>	Sailplane	<b>Owner / Contact:</b>	Gjengedal Hans
<b>Manufacturer:</b>	Alexander Schleicher GmbH	<b>Registration mark:</b>	LN-GSH
<b>Model:</b>	ASH 26 E	<b>Serial Number:</b>	26102
<b>Type certificate:</b>	Germany DE-883	<b>Year of manufacture:</b>	1996
		<b>Position:</b>	

General
Time
Requirements
Service
Info
Related comp.

### Related components

**New component relation:** -- Component group-- **Relation:**  
Serial number is mandatory!

This component is part of : No parent component  
This component has these parts:

	Type:	Model :	Serial number:	Manufacturer:
<input checked="" type="checkbox"/>	Airspeed Indicator - 5 Years	6 FMS 511	117064	Winter
<input checked="" type="checkbox"/>	Altimeter - 5 Year	4 FGH 20	204871	Winter
<input checked="" type="checkbox"/>	Compass	C-2300	NA-001	Airpath
<input checked="" type="checkbox"/>	Engine for sailplane	AE50R	RI0283	Diamond Aircraft Industries GmbH
<input checked="" type="checkbox"/>	FLARM	PowerFlarm	FLAPFCI 11E.0A2667	FLARM
<input checked="" type="checkbox"/>	Flight Computer	Air Glide S	27500211	Air Avionics - Butterfly
<input checked="" type="checkbox"/>	Flight Computer	Air Glide Sensor S	XBT	Air Avionics - Butterfly
<input checked="" type="checkbox"/>	MCU	IB-ASH 26	96510	ILEC
<input checked="" type="checkbox"/>	Propeller	KS-1C-158-R-108	184	Technoflug
<input checked="" type="checkbox"/>	Safety Harness	Bagu-IV/Schugu-II	0807921/922	Gadringer
<input checked="" type="checkbox"/>	Transponder	VT-01-Ultracompact-Class2	0104-070-00996	Garrecht
<input checked="" type="checkbox"/>	VHF Radio	KRT 2	166444	Airplus - Dittel

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# Oppdatere Melwin CAMO:

## Part M

Administrator Baartvedt Ole, HALLINGDAL FLYKLUBB/SEILFLY ▼

Logg ut

## NLF CAMO

Mode

Plane/Component

Component type

Reports

Adress List

Work Order Report

Group Report

Return Date Report

ARC due list

Ready for ARC

Stop warnings

Aircraft

Sailplane

Year

Rapport seilflytid

Search

Selection Report

Aircraft  Sailplane

All

Green

Yellow

Red

Uncontrolled

LN-GSH

Component

<b>Component Group:</b>	VHF Radio	<b>Owner / Contact:</b>	Gjengedal Hans
<b>Manufacturer:</b>	Airplus - Dittel	<b>Registration mark:</b>	Component in LN-GSH
<b>Model:</b>	KRT 2	<b>Serial Number:</b>	166444
<b>Type certificate:</b>		<b>Year of manufacture:</b>	2016
		<b>Position:</b>	Unknown

General

Time

Requirements

Service

Info

Related comp.

New service

Service Log

-- Service Action -- ▼

Acc. req.:	-- Find Requirement -- ▼	Status:	Automatic ▼
Approved:		Notater:	
Done by:	51380 Baartvedt Ole		
Done:	Date: <input style="width: 50px;" type="text"/>	Hours: <input style="width: 50px;" type="text"/>	Landings: <input style="width: 50px;" type="text"/>
	Cycles: <input style="width: 50px;" type="text"/>	Tacho: <input style="width: 50px;" type="text"/>	
Valid to:	<input style="width: 50px;" type="text"/>	<input style="width: 50px;" type="text"/>	<input style="width: 50px;" type="text"/>

Documents:

Document	Document dat	Documenttype	Registered by
<b>Services</b> <input checked="" type="checkbox"/> RAMP test at installation <input checked="" type="checkbox"/> Installation & Test <input checked="" type="checkbox"/> Installation & Test, 10.05.2016			

Home

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Delete

Print

Cancel

Save

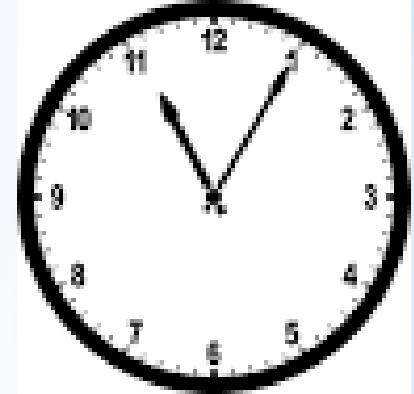
# Oppdatere Melwin CAMO:

Component			
Component Group:	VHF Radio	Owner / Contact:	Gjengedal Hans
Manufacturer:	Airplus - Dittel	Registration mark:	Component in LN-GSH
Model:	KRT 2	Serial Number:	166444
Type certificate:		Year of manufacture:	2016
		Position:	Unknown

- [General](#)
[Time](#)
[Requirements](#)
[Service](#)
[Info](#)
[Related comp.](#)

Maintenance Requirements		Manage N/A requirements	
Mandatory from:	<input type="text"/>	Serial numbers: From 166444 to 166444 (LN-GSH)	<input checked="" type="checkbox"/> Is active
Name:	<input type="text"/>		
Interval:	0	Hours	
	0	Landings	
	0	Days	
	0	Cycles	
Description:	<input type="text"/>		
Comments:	<input type="text"/>		
Eksternal link:	<input type="text"/>		
Internal referanse:	<input type="text"/>		
Documents:			
<b>Document</b>	<b>Document date</b>	<b>Document type</b>	<b>Registered by</b>
<b>Requirements:</b>			
<input checked="" type="checkbox"/> <b>RAMP test at installation</b>			

Nå: En kjapp benstrekk



Vi fortsetter om ca 5 minutter med:

**Smøremidler**