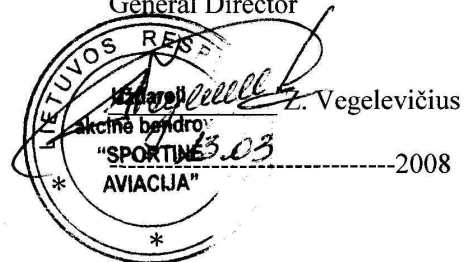



JSC "Sportinė aviacija"
General Director




Information bulletin No. 019T. 8. 77.005 I

Transponder installation


JSC "Sportinė aviacija"
Design Director

 K. Juočas
13.03.2008

JSC "Sportinė aviacija"
Service engineer

 K. Gečas
3.03.2008

JSC "Sportinė aviacija"
Engineer - constructor

 A. Liuberskis
03.03.2008

2008

JSC "SPORTINĖ AVIACIJA"	Page 3
Information bulletin No. 019T.8. 77.005 I	Pages 9

1. Subject: Installation of transponder.

The copies of the information bulletin **No. 019T.8 77.004I** are sent to:

1. Civil Aviation Administration of the Lithuanian Republic (CAA) – 1 copy;
2. EASA RP for LAK-19T, LBA, Germany – 1 copy;
3. Aviation authorities of countries, which issued Type Certificates for the LAK-19T –1 copy;
4. For the known owners of the LAK-19T or administration of organizations (clubs) having LAK-19T self-sustaining powered sailplanes – 1 copy.

2. Affected:

Type: LAK-19T

Manufacture: UAB "Sportinė Aviacija", Pociūnai, LT-59327, Prienai, Lithuania.

Serial numbers affected: According requirements aviation authorities of countries.

Original type certificate: EASA Type Certificate A.012 (16 October 2004).

3. Reason: Requirements of safety.

4. Time of compliance: This bulletin for information.

5. Actions: For the installation transponder you must:

5.1 to mount the transponder (one of following types: **Garrecht Mode S transponder VT01, transponder TRT800, transponder Microair T2000 SFL or transponder Flarm ECW100**) in to instrument panel's free place (see sketch LAK-17 AT 77 00 00 00 M and Fig.1). Standard instrument fixing by 4 bolts M4, to drill 4 holes Ø4.3 mm for bolts and hole Ø57.5 mm for transponder in the front of instrument panel. The transponder's dislocation place can be selected free, but you must to keep the necessary distance from the Magnetic Compass according it technical documentation.

5.2 to install the antenna cable on the right side of fuselage shell according (see sketch LAK-17 AT 77 00 00 00 M):

To install antenna's cable into completed sailplane you need thread the cable into plastic hose from the instrument panel by another cables side. To drill hole Ø5.5mm in frame LAK-17A 50 00 10 00 SB and thread cable in to it. To put the cable under the floor LAK-17A 01 03 00 30 SB (see sketch LAK-17 AT 77 00 00 00 M). To drill holes Ø5.5mm in skew frame No. 1 and skew frame No. 2 (see sketches LAK-17 AT 77 00 00 00 M). The diameter of holes specify according cable's diameter. And drive the cable by the inner surface of the

JSC “SPORTINĖ AVIACIJA”	Page 4
Information bulletin No. 019T.8. 77.005 I	Pages 9

right side fuselage's shell. There's necessary to fix antenna's cable on the right side of fuselage's shell between frames No. 1 and No. 2 by 1 layer of 92110 by intervals 190-200 mm (see sketch LAK-17 AT 77 00 00 00 M). The installed cable mustn't to hang or impede moving bell cranks and rods.

- 5.3 to mount the transponder antenna on to outside surface of the fuselage right shell according: (see sketch LAK-17 AT 77 00 00 00 M). The antenna's dislocation place can't be determinate wanton to warrant the best functioning of the system and prevent antenna's injury during landing or transportation.

Before mounting the transponder antenna into completed sailplane your need take off landing gear cover LAK-17A 10 00 00 08 and engine firewall LAK-17AT 66 00 01 00 SB (see sketches LAK-17AT 66 00 01 00, LAK-17AT 66 00 01 00 SB) to get the antenna's installation place. After mounting you must to put on it again to appropriate place.

On the fuselage shell it's necessary line the aluminum foil in antenna's fixing area (see sketch LAK-17 AT 77 00 00 00 M).

- 5.4 to make all necessary connections and inspect installed system functioning according transponder's technical documentation and “Maintenance manual for the self-sustaining powered sailplane LAK-19T”.
- 5.5 after you execute p.p. 5.1-5.4 you need to do test flight according Luftfahrt-Bundesamt Division T4 document § 22.1301 and Flight Manual for the self-sustaining powered sailplane LAK-19T.

6. Mass and balance:

The described actions do not affect C. G. of the glider.

7. Documentation and materials:

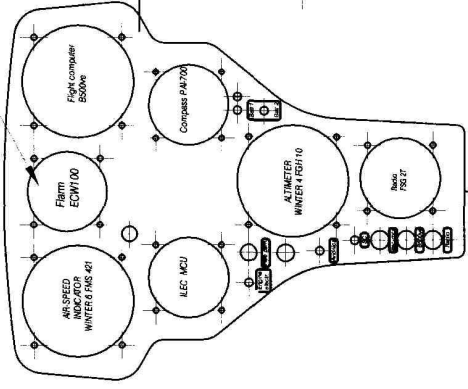
- 7.1 “Maintenance manual for the self-sustaining powered sailplane LAK-19T”.
- 7.2 “Flight Manual for the self-sustaining powered sailplane LAK-19T”.
- 7.3 Luftfahrt-Bundesamt Division T4 documentation.
- 7.3 Transponder (one of types: **Garrecht Mode S transponder VT01, transponder TRT800 or transponder Microair T2000 SFL or transponder Flarm ECW100**) or another analogical certificated one and it technical documentation.
- 7.3 Antenna's cable RG400 30000-400-00 Habla Cable 2004 M-36 15917S, or analogical one (4 meter).
- 7.4 Antenna ANTENNA-DME TRANSPONDER CI105 TSO C66b, C74c, DO-160C, or another analogical certificated one and it's technical documentation.
- 7.5 Drafts and sketches:
- LAK-17 AT 77 00 00 00 M
 - Fig.1
 - LAK-17 AT 66 00 00 00
 - LAK-17 AT 66 00 00 00 SB

JSC “SPORTINĒ AVIACIJA”	Page 5
Information bulletin No. 019T.8. 77.005 I	Pages 9

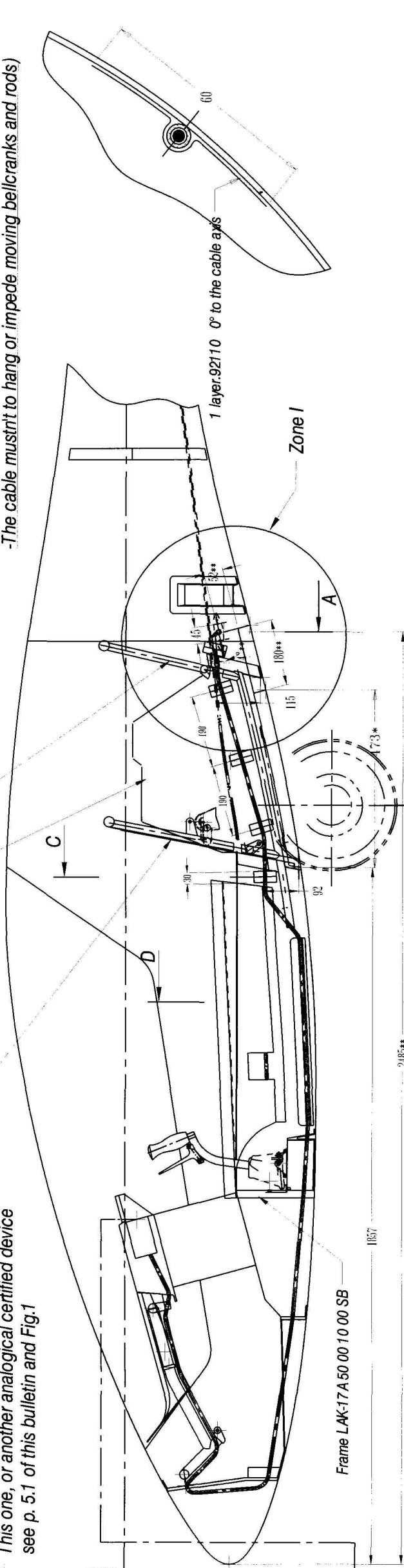
8. Accomplishment and log entry:

This information has to be made by certified person. The compliance of this service bulletin must be checked and entered in the glider’s logbook following the operator’s national regulations.

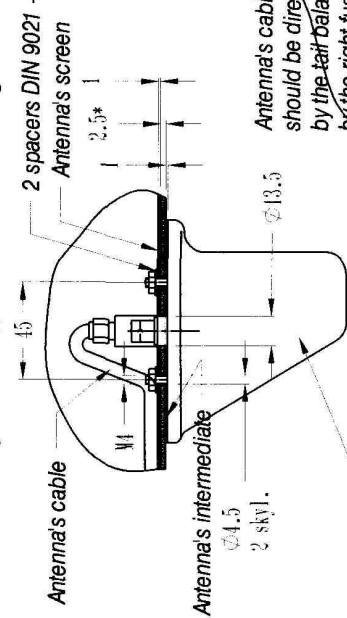
This one, or another analogical certified device
see p. 5.1 of this bulletin and Fig.1



Skew frame No.2
landing gear cover LAK-17A 10 00 00 08
Skew frame No.1



B - B
Antenna's fixing on the right side of the fuselage shell



Antenna's cable

Antenna's intermediate

2 spacers DIN 9021 - A4.3 (M4)

Antenna's screen

2.5

13.5

45

Antenna

ANTENNA-DME TRANSPONDER

C1105

TSO

C66b, C74c, DO-160C

Antenna's cable at first

should be directed

by the tail balast control rod trace

by the right fuselage shell surface

On the fuselage shell

necessary line the aluminium foil

in antenna's fixing area

(150 mm radius)

31

45

R150

13.5

83

200

30

Antenna

Fuselage shell

To put antenna's cable under the floor

by another cable side

Floor LAK-17A 01 01 30 SB

D-D

Antenna's fixing on the right side of the fuselage shell

A - A

Antenna's cable

Antenna's intermediate

2 spacers DIN 9021 - A4.3 (M4)

Antenna's screen

2.5

13.5

45

Antenna

ANTENNA-DME TRANSPONDER

C1105

TSO

C66b, C74c, DO-160C

Antenna's cable at first

should be directed

by the tail balast control rod trace

by the right fuselage shell surface

On the fuselage shell

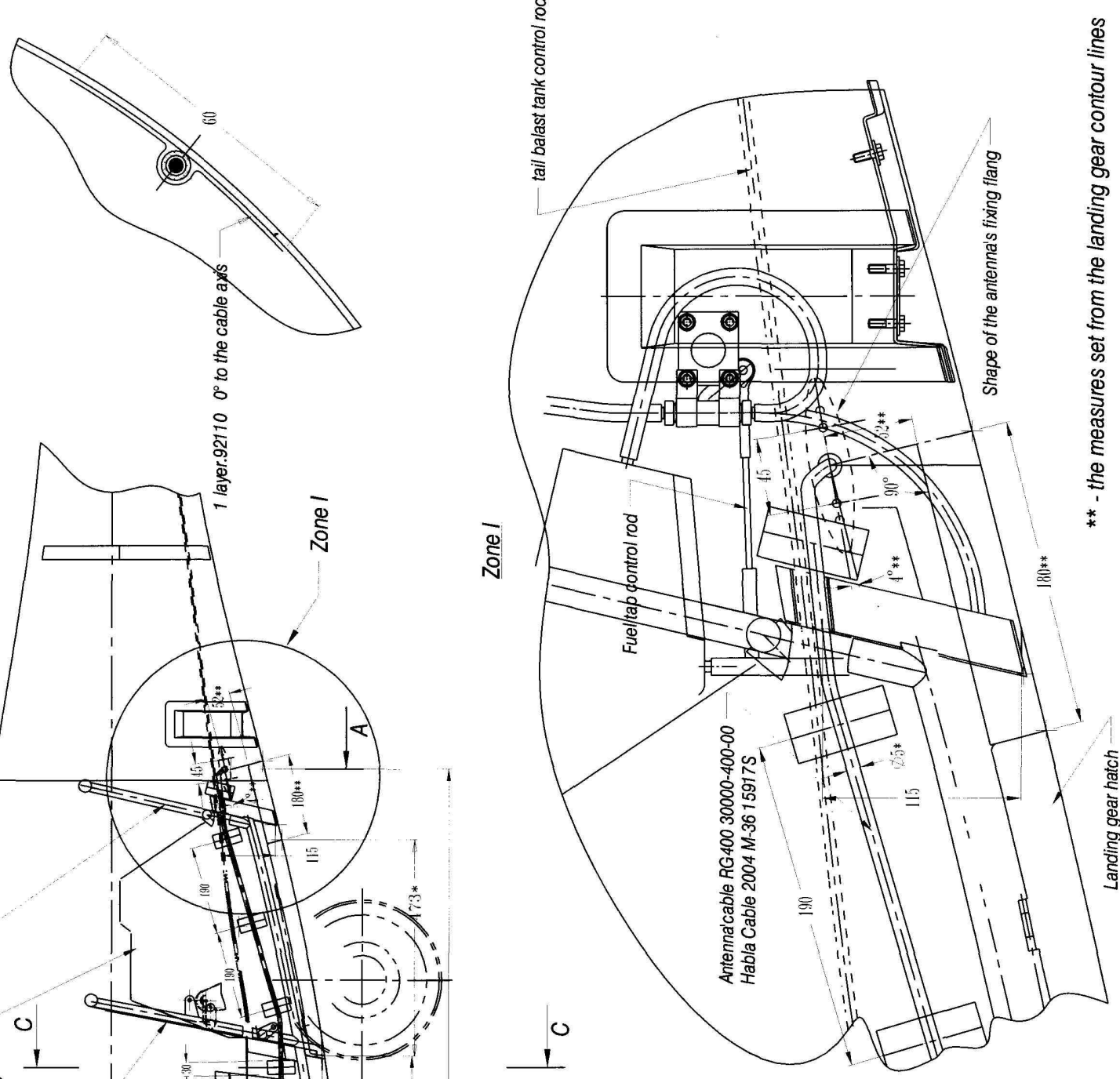
necessary line the aluminium foil

in antenna's fixing area

(150 mm radius)

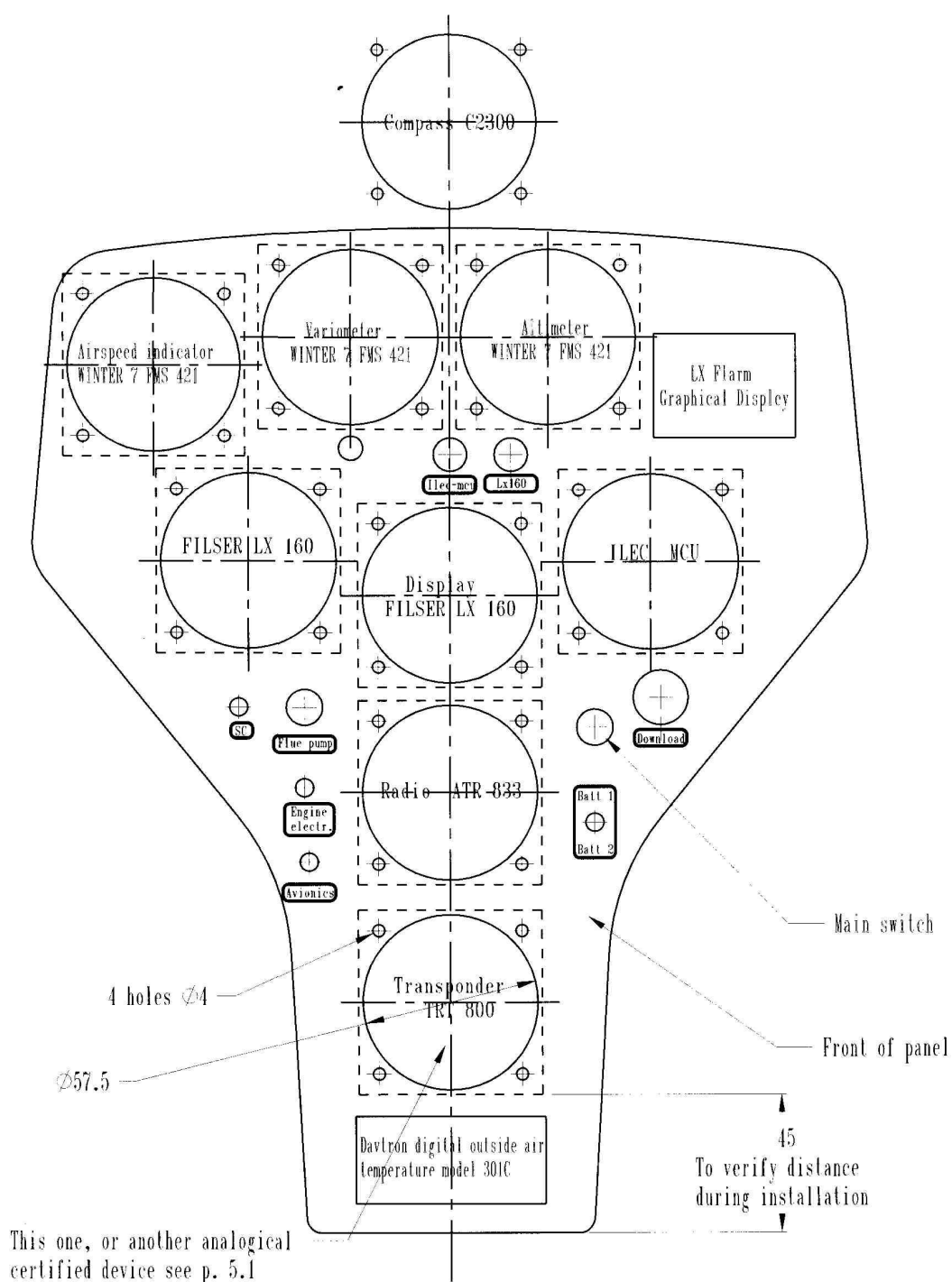
C - C

Standard antenna's cable gluing on the right side of the fuselage shell
(position of gluing points and it's number specify during cable installation
-The cable mustn't to hang or impede moving bellcranks and rods)



** - the measures set from the landing gear contour lines

LAK-17AT 77 00 00 00 M			
Avigation instruments			
New	2177 - K	Letter	Weight
Ch. Page	Document No	Signature	Scale
Created	P. Jurgelevičius	Date	
Checked	J. Armonaitis		
T. contrl.			
N. contrl.			
Approved	K. Juočas	Date	
AB "SPORTNE AVIACIJA"			
Format A1			



Installation of the transponder in to sailpane's
LAK-17AT instrument panel (SX 196 variant 1)

Fig. 1

<i>Format</i>	<i>Zone</i>	<i>Position</i>	<i>MARKING</i>	<i>NAME</i>	<i>Quantity</i>	<i>Notes</i>
<i>Documentaion</i>						
<i>A1</i>			<i>LAK-17 AT 66 00 00 00 SB</i>	<i>Assembling sketch</i>		
<i>Assembling ones</i>						
<i>A3</i>	<i>1</i>		<i>LAK-17 AT 66 00 01 00 SB</i>	<i>Firewall</i>	<i>1</i>	
<i>Details</i>						
<i>A4</i>	<i>2</i>		<i>LAK-17 AT 66 00 00 01</i>	<i>Cover</i>	<i>1</i>	
<i>A4</i>	<i>3</i>		<i>LAK-17 AT 66 00 00 02</i>	<i>Side arm</i>	<i>2</i>	
<i>A4</i>	<i>4</i>		<i>LAK-17 AT 66 00 00 03</i>	<i>Rear profile angle</i>	<i>1</i>	
<i>A4</i>	<i>5</i>		<i>LAK-17 AT 66 00 00 04</i>	<i>Front profile angle</i>	<i>2</i>	
<i>A4</i>	<i>10</i>		<i>LAK-17 AT 66 00 00 05</i>	<i>Left rib</i>	<i>1</i>	
<i>A4</i>	<i>11</i>		<i>LAK-17 AT 66 00 00 05-01</i>	<i>Right rib</i>	<i>1</i>	
<i>Standartinės detalės</i>						
	<i>7</i>			<i>Screw DIN 7985 -4,8 Znp</i>	<i>14</i>	
				<i>AM 4 x10</i>		
	<i>8</i>			<i>Nut 3381 A - 4</i>	<i>10</i>	
				<i>(LN 29 679 AM 4)</i>		
	<i>9</i>			<i>Rivet DIN 7337B 3 x 8</i>	<i>30</i>	

New 2188 - K V.Vilkas 07.02
 Ch. Page Dokument. No. Signature Date
 Created V.Vilkas
 Checked J.Armonaitis

N.contr. D.Juočiėnė
 Approved K.Juočas

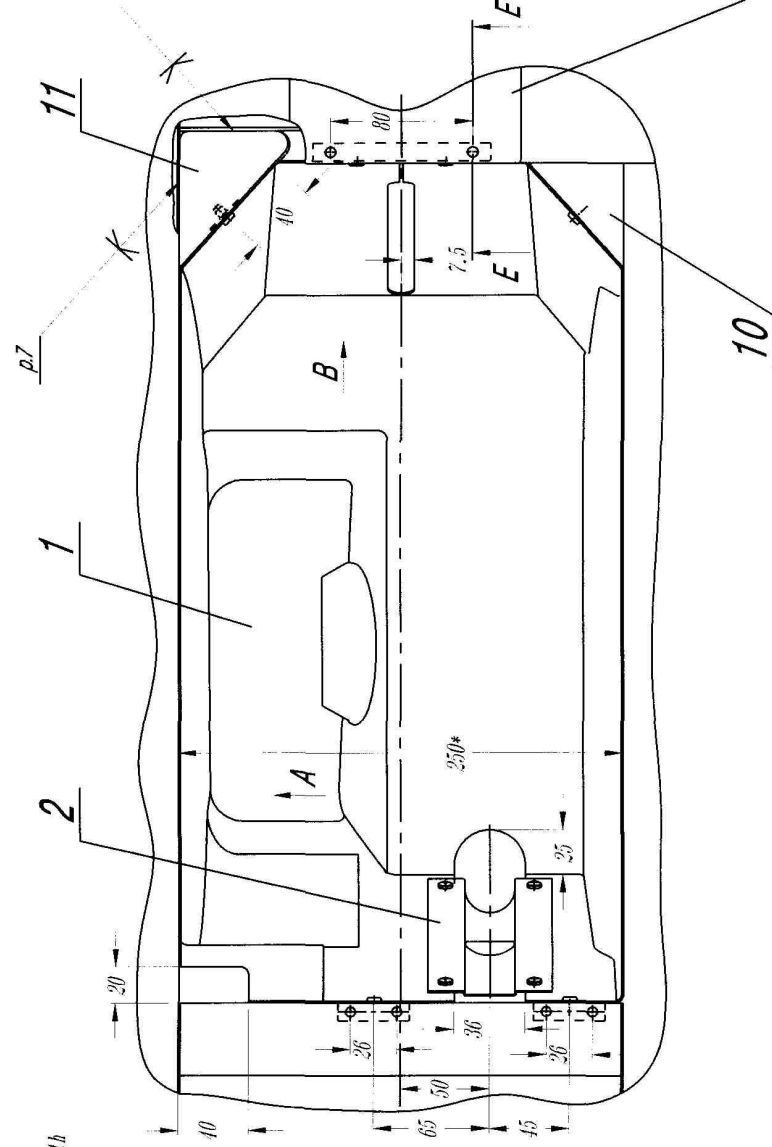
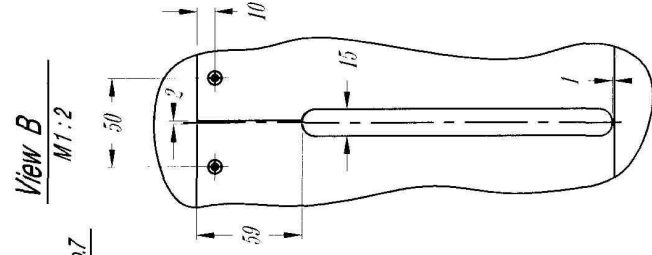
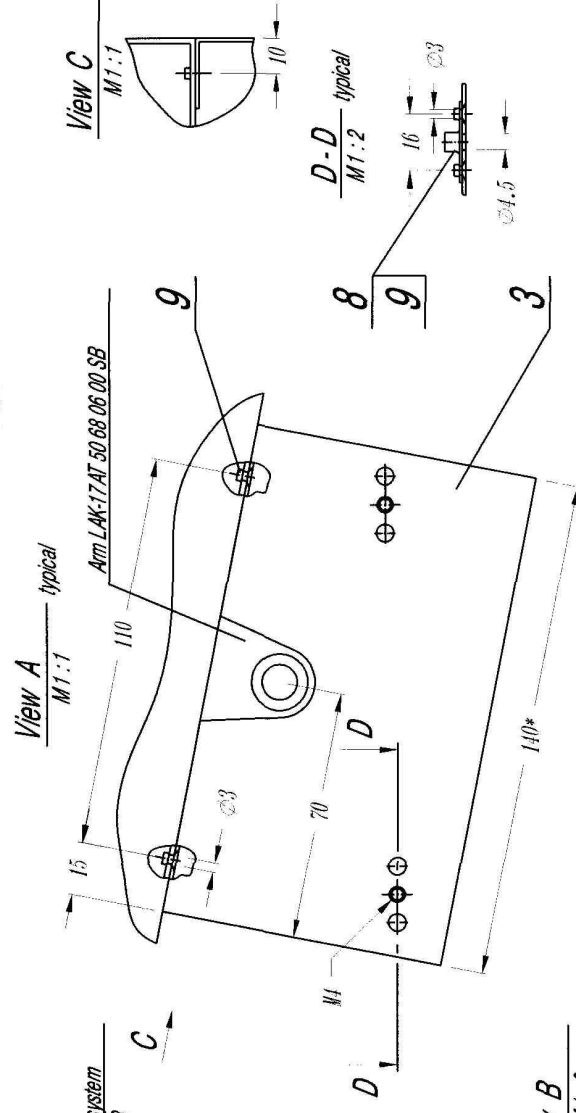
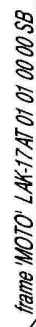
LAK-17 AT 66 00 00 00

FIREWALL

INSTALLATION

Letter 0 Page 8 Pages 9

AB "SPORTINĖ AVIACIJA"



1*.Dimensions for information
2.H12, h12, \pm IT12/2.
3.Glue L 285 + H 287 + 8% CAB-O-SIL.

[illegible]