

	SERVICE INFORMATION LETTER		Aircraft Type:	ALTO 912 TG
	No. SIL-0-002-2018-EN	INFORMATION	Revision:	00

1) Planning information

<u>Applicability:</u>	None
<u>Concurrent ASB/SB/SI and SL:</u>	None
<u>Reason:</u>	Information manual
<u>Subject:</u>	Control system cables tensioning
<u>Compliance:</u>	After assembling, then 25hrs, 100hrs, each 100hrs
<u>Approval:</u>	None
<u>Labour time:</u>	2 hr
<u>Mass data:</u>	Change of weight: none Moment of inertia: none
<u>Electrical load data:</u>	None
<u>Software modifications:</u>	None
<u>References:</u>	None
<u>Other Publications affected:</u>	None
<u>Interchangeability of part:</u>	None

2) Material Information

<u>Material-cost and availability:</u>	None
<u>Company support information:</u>	None
<u>Material requirement per aircraft:</u>	Safety wire stainless steel 0,032in or 0,041in
<u>Material requirement per spare part:</u>	None
<u>Rework of parts:</u>	None
<u>Special tooling and availability:</u>	Wrench 10mm, Safety-wire pliers

3) Accomplishment/Instructions

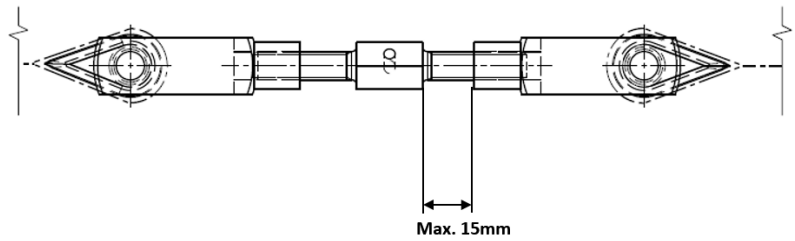
<u>Instructions:</u>	<ol style="list-style-type: none"> 1) Detach the handle between the pilot seats 2) Detach the ELT if installed 3) Detach the baggage area 4) Check the current tension in cables and deflection. If it does not fit to the Deflection sheet REV 01 (Attachment I) follow this instruction: 5) Detach the front aluminum cover around the LEFT control stick 6) Cut and remove the safety wire stainless steel from turnbuckles 7) Set the deflection of elevator using this method: <ol style="list-style-type: none"> a) Set the neutral position of elevator if using the water level or install the Deflection jig. b) Pull the control stick to end position
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- c) Turn the upper turnbuckle to set the correct upper position of elevator regarding to Deflection sheet REV 01 (Attachment 1).
- d) Push the control stick to end position and set the correct lower position of elevator regarding to Deflection sheet REV 01 (Attachment 1).
- e) The setting of lower deflection needs to be done by turning the turnbuckle and also setting the end positioning bolt on left side of control stick.
- f) When lower deflection is set, again check the upper deflection and tension in upper cable.
- g) Repeat this procedure until both of deflection and tension in cables meets the requirements in Deflection sheet REV 01 (Attachment 1).
- 8) Set the deflection of rudder using this method:
 - a) Set the neutral position of rudder pedals on left side (pilot seat). You can use some jig or feet of the pilot. The neutral position of the rudder is 10mm+/-2mm on right side. Measure this between the elevators.
 - b) Turn the left and right turnbuckle to set the correct tension in cables regarding to Deflection sheet REV 01 (Attachment 1) and keep the neutral position of rudder and rudder pedals.
 - c) Maximum left and right deflection is not possible to change. It is restricted by stoppers on front landing gear leg.
- 9) When previous is done, safe the four turnbuckles by using Safety wire stainless steel and Safety wire pliers. The turnbuckles needs to be locked against opening and against turning. See the following figure:



- 10) Seal the positioning bolt on left control stick by red color.

- 11) Check the function, check the locking of turnbuckles, check the position of middle part thread regarding to following Figure:



In case there is not fulfilled previous condition, you need to use longer/shorter turnbuckle.

- 12) Close the front cover around the control stick, attach the baggage area, ELT if installed and handle.

Summary: None

Inquiries: None

4) Appendix

None

Issued by: Signature:

Approved by: Signature: Stamp

ATTACHMENT I



DEFLECTION SHEET

Type:	ALTO 912 TG
Manufacturer:	Direct Fly, s.r.o., <u>Spitalka</u> 49/8, 602 00 Brno.
Serial number:	
Register number:	

		Required:	Measured:	
Elevator (for heavy propeller)	Up	28° - 2°		
	Down	20° - 2°		
Elevator (for light propeller)	Up	28° - 2°		
	Down	22° - 2°		
Elevator Trim	Up	15° - 3.0°		
	Down	30° ± 3°		
Rudder	Left	25° + 3°		
	Right	25° + 3°		
Ailerons	Neutral	0°		
	Up	28° ± 2°		
	Down	25° ± 2°		
			Left	Right
Flaps (Electrical)	Retracted	0°		
	Extended I	15° - 2°		
	Extended II	25° - 2°		
	Extended III	33° + 2°		
			Left	Right

Tension in cables:

Control	Required:	Measured:	
		L	R
Rudder	30 + 25 Lbs		
Elevator	30 + 25 Lbs		

Notes: NIL

Result:

Date:|

Performed by: