	Service Instruction	
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Service Instruction

Stabilator packing for shipment

SI- ASTM -CT__-04
SI- ASTM -CT2k-04
SI- ASTM -CTSW-08
SI- ASTM -CTLS-03

1 Planning Information

1.1 Affected Aircraft

Type: CT
 Model: All models
 Serial Number: All serial numbers
 Applicable Countries: Not limited

1.2 Concurrent Documents

None

1.3 Reason

Shipment of stabilator for service or other maintenance event.

1.4 Subject

Construction of an easy to manage transport box for shipment of stabilator.

1.5 Compliance

Compliance is required for save transport.


ΔWarning: Non-compliance with this SI can lead to damage of the stabilizer while shipment.

1.6 Type of Maintenance

None

1.7 Personnel Qualifications

Simple knowledge in wood-based materials and hand tools.

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1.8 Approval

None

1.9 Weight and Center of Gravity

Not affected

1.10 References

None

1.11 Superseded Documents

None


1.12 Contact Details

For further information on conduct of this SI, or to report any Safety of Flight or Service Difficulty issues contact your Distributor responsible for your country. Your Distributor can be located via the Flight Design website: www.flightdesign.com under "Dealer Location".

In cases where the local distributor is not known or available contact Flight Design GmbH directly: airworthiness@flightdesign.com.

1.13 Disclaimer

This Service Instruction has been generated with utmost care. Nevertheless errors and misunderstandings can never be fully excluded. In case of any doubts the applicant of the Technical Instruction is requested to contact Flight Design immediately to clarify the issue.

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2 Resources

2.1 Materials

1. 2 pcs. strand board (OSB or similar) 15 mm thick – 2460 x 180 mm (sidewall long)
2. 2 pc strand board (OSB or similar) 15 mm thick – 840 x 180 mm (sidewall short)
3. 2 pc plywood 4 mm thick – 2490 mm x 840 mm (upper and lower planking)
4. Styrofoam plates 40 mm thick (Inner transport protection) around 2 m²
5. Wood screws (3 x 40 mm) around 70 pcs
6. Wood screws (5 x 50 mm) 6 pcs
7. Double sided tape

2.2 Tools (Fig. 1)

1. Electric power drill with bit for screws
2. 3 mm Drill
3. Measuring tape
4. Cutter knife




Fig. 1

2.3 Manpower

The labor is, depending on the material and tools, less than 2 working hours for one person.

2.4 Cost

The material costs are less than 100 €. Material can be purchased for example in home improvement stores.

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3 Instructions

3.1 General

The final design depends on the available materials. The sizes can change if you use materials with other dimensions.

- △ **Warning:** The inner dimensions of the box between the transport protections should be:
- Length : 2380 mm
 - Wide : 730 mm
 - Height : 100 mm

3.2 Construction

The best place for construction is a flat area with a minimum size of 2 m x 4 m on the ground or on a large work table:


1. Put one of the long and two short sidewalls on a flat surface (Fig. 2) and connect them on their tops with 3 screws (5 mm x 50 mm) each. Use the drill to pre-drill the holes for the screws. (Fig. 3) The second long sidewall will be the cover of the box.



Fig. 2



Fig. 3

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- Cover this frame with one plank of plywood and screw the parts together. Use one screw (4 mm x 40 mm) per minimum all 200 mm. After finalizing turn the construction upside down. (Fig. 4)



Fig. 4

- Cut strips of Styrofoam to 180 mm width and cover the sidewalls from inside. Apply 2 Strips flat on the midsection of the plywood (Fig.5). The strips can be easily fixed in position with double sided tape. (Fig. 6) Take care that you cut the length of the strips at the short edges so that the later cap can insert with foam strip as well. (Detail Fig. 5)



Fig. 5

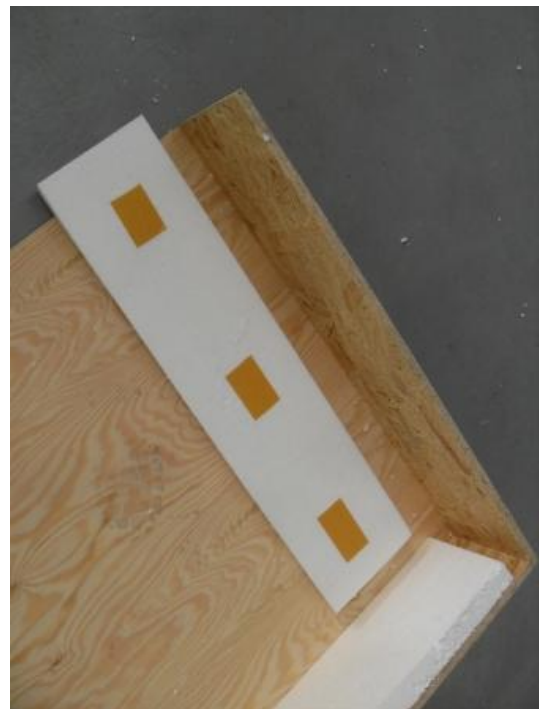



Fig. 6

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- Apply Styrofoam strips in the same way to the other plywood planking. Also here you have to reduce the length so that the cover exactly fits to the side walls with foam. (Fig.7)




Fig. 7

- Insert the stabilator to crosscheck the smooth fit. Too much clearance or too tight fit can now be correct with adding / removing foam thickness. (Fig. 8).
 When this test is completed, remove the stabilator again.



Fig. 8

- Position the second plywood planking to the box and attach to side walls with screws.

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7. Slide the stabilator carefully into the box, until the leading edge touches the foam padding on the long side wall. Fill possible gaps between the Styrofoam and the upper and lower surface with sponge rubber and make sure that the rubber cannot move during transport. (Fig. 9)
8. Fit in the prepared strips of Styrofoam for the cap. (Fig. 10)



Fig. 9




Fig. 10

9. Close the cap of the transport box and fix it with screws. Application of handles made from power tape (Fig. 11) will make it very easy to remove the cap after unscrewing.



Fig. 11

10. Take sandpaper and a sanding block to smooth all edges of the box. Remove also wood chips around the screw heads

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11. Before shipping warning stickers must be applied. You may use the templates on the following pages. You can scale them to the suitable size when copying them. See (Fig. 12) for the way of application. The box is positioned in the way that the stabilator rests on its leading edge inside the box.



Fig. 12



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Glass – Fragile!




No Step ! Keep dry !

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THIS SIDE UP!



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**HANDLE WITH
CARE !**

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TOP – THIS SIDE UP!

CAP – OPEN HERE !

4 Appendix

4.1 Changes to Previous Revision

None -

4.2 Feedback Template Flight Design

No specific feedback required