



Issues

MANDATORY BULLETIN No. EV 97 – 008 a (ZBEV-97-008a)
SPORTSTAR – 003 a (ZBSPORTSTAR-003a)

1. **CONCERNING TO :** Airplanes with emergency rescue system – additional protection of the right front carrying strap against damage.
2. **REASON :** The right front carrying strap was damaged by the airplane airframe after the rescue system had been used in operation.
3. **REQUIRED ACTION :** Put a protective wire mesh hose on the right front carrying strap in accordance with the procedure described in enclosure of this bulletin.
4. **LATEST DATE OF THE ACTION:** **Prior to nearest take-off** after delivery of the protective hose.
5. **ACTION CARRIED OUT BY :** The pilot, airplane owner or by him entrusted mechanic.
6. **COSTS COVERED BY :** Material will be supplied by the airplane manufacturer free of charge. Airplane owner covers eventual pay of a mechanic. (Estimated time to perform bulletin is 2 hours)
7. **NECESSARY MATERIAL :** Will be supplied by the airplane producer after order receipt from the airplane owner. State the airplane serial number and address for shipment in the order.
See Enclosure for list of necessary tools.
8. **WORK PROCEDURE :** see Enclosure.
9. **ENCLOSURES :** Procedure to install the wire mesh hose on the right front carrying strap of the emergency rescue system.
10. **ELABORATED BY :** Pavel Ulrich

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2/12/2005
Date:

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2/12/2005
Date:



Procedure to install the wire mesh hose on the right front carrying strap of the emergency rescue system.




Photo	Procedure
	<p>Supplied material:</p> <ul style="list-style-type: none">- wire hose drawing No. E9 50-00 21, 1 pc.- tightening strip 3.6 x 142 mm part No. 060 333 6 pcs. (not shown). <p>Other necessary material</p> <ul style="list-style-type: none">- fabric (carpet) tape
	<p>List of necessary tools:</p> <ul style="list-style-type: none">- straight-blade screwdriver to remove cover attachment screws- wire-cutters to cut tightening strips- M19 nut wrench to unloose a loop eye nut- metal sheet snips left and right to trim channel (U profile) edge- file to deburr cutting edges
	<p>Airplane with emergency rescue system</p> <p>Transport the airplane to a location where work can be done.</p> <p>Check the rescue system activation lever is locked.</p>
	<p>Unscrew the front side screw on both sides of the cockpit canopy.</p>






Photo	Procedure
	Front part of the canopy with removed screw.
	Close the canopy, press slightly the canopy front side cover by thumb to be able to bend it away of the fuselage.
	Pull the canopy front side cover away of the fuselage and unscrew the screws attaching a cover of space behind the firewall. Do the same on fuselage opposite side.






Photo	Procedure
	<p>Open the canopy and unscrew upper cover other screws.</p>
	<p>Tilt slightly the canopy from fully opened position and remove upper cover.</p>
	<p>Take out subsequently the carrying straps located between the parachute and firewall and put them on the parachute. Left strap is located upwards.</p>






Photo	Procedure
	<p>The rear strap is located under the left strap and the right one is on bottom. Take out these straps and put them on the parachute.</p>
	<p>Cut tightening strips of the right strap. Strips hold strap in folded state.</p>
	<p>Use M19 nut wrench to loose a nut of loop eye connecting the straps. Insert a screwdriver into the loop eye to eliminate releasing torque moment.</p>



Photo	Procedure
	<p>Unscrew the loop eye nut and remove the right strap.</p>
	<p>Put right strap through wire mesh hose.</p>
	<p>Flatten the wire mesh hose on the strap (e.g. step on it by a shoe). Orient a wire mesh hose bind to be on top when the carrying strap is straightened away of the airplane (see next photo).</p>
	<p>Slip the wire mesh hose up to the airplane and set the carrying strap to be on the left edge of the hose. Fold up the overlapping width of the wire mesh hose upwards (according to carrying strap width).</p>



Photo	Procedure
	<p>Complete folding along the entire length of the hose up to the strap attachment point to the airframe.</p> <p>Wire hose bind orientation must be adhered according to this figure.</p>
	<p>Use a fabric (carpet) tape to wrap shown end of the wire mesh hose with the strap.</p>
	<p>Use right snips to trim upper edge of the channel on the fuselage right side in place of the strap attachment.</p>






Photo	Procedure
	Deburr trimmed edge with a flat file.
	Use left snips to trim upper edge of the channel on the fuselage left side in place of the strap attachment.
	Deburr trimmed edge with a flat file.



Photo	Procedure
	<p>Insert the right strap between the parachute and firewall and press it down.</p>
	<p>Fold the strap with the wire mesh hose back in point where is the parachute end. Bending radius must not be acute, fold the hose for example over a finger.</p>
	<p>Fold the right strap approximately according to length of the parachute. Leave sufficient length of strap with eye loose to reach the loop eye. Use a tightening strip to fasten folded strap in its upper part.</p>



Photo	Procedure
	<p>Then use more tightening strips to fasten the folded strap on its bottom and in the middle. Cut overlapping ends of tightening strips.</p>
	<p>Insert folded part of the right strap between the parachute and firewall and press it down.</p>



Photo	Procedure
	<p>Put right strap eye on the loop eye.</p>
	<p>Screw up the loop eye nut and tighten it using M19 nut wrench. Insert a screwdriver into the loop eye to eliminate tightening torque moment.</p>
	<p>Insert the rear strap between the parachute and firewall, press it down. Insert the left strap on the rear one and press it down.</p> <p>All straps must be behind a cable connecting rocket with the parachute. (between the parachute and firewall)</p> <p>(Cable is closest to the parachute.)</p>










Photo	Procedure
	<p>Note: For the airplanes with a thermal insulation - put the folded straps on the parachute and fix them to it using a Velcro tape.</p>
	<p>Partly open the canopy and re-install upper cover of the space behind the firewall.</p>
	<p>Tighten upper cover attachment screws.</p>



Photo	Procedure
	<p>Close the canopy, press slightly the canopy front side cover by thumb to be able to bend it away of the fuselage.</p>
	<p>Pull the canopy front side cover away of the fuselage and screw up the screws attaching the cover of a space behind the firewall. Do the same on fuselage opposite side.</p>
	<p>Screw up front side screw on both sides of the cockpit canopy.</p>
	<p>Screwed screw on the canopy front side.</p>
<p>Record compliance with this bulletin into Airplane Log Book.</p>	