		Doc. No.: MD10-WOI-53-001
Type: JS-MD Series	Subject: Work Instruction	ATA: 53
Model/s: JS-MD 3	Title: Belly-Hook Release Cable Replacement	Rev.: 00

Title: Belly-Hook Release Cable Replacement
Work Instruction

1 Document Management

1.1 List of Revisions

Rev.	Date	Description	Author	Affected Sections / Pages
00	23.11.2020	Initial Issue	Aikaterini Gatou	all

Unless shown impracticable due to the scope of the revision, the changes due to the latest revision are marked by a vertical line at the right page margin.


1.2 List of Validity

Rev.	Valid for / Restrictions	Type Def. Reference
00	JS-MD Series / Model JS-MD 3	EASA.A.616

1.3 Document Acceptance

The **CVE** checks the form and content of the document according to section 1.1 and 1.2 and correctness and completeness of the content. The **HOA** approves the document.

	Name	Function	Signature
Prepared	Aikaterini Gatou	DE	
Checked	AP Kotze	CVE	
Approved	Claudia Schoberth	HOA	

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3 Summary

This document contains all necessary steps to complete the content of the Service Bulletin SB-MD10-004

4 Planning Information


4.1 Material

- 2.40mm Cable | QTY: 1.3m with pre-crimped Stop Sleeve | Material: Galvanised | JS-MD Part No: 1060500300
- M5 Self-Locking Nyloc Nut | Material: SS A2-70 | QTY: 1 | JS-MD Part No: 1040400900
- Nicopress | Material: Copper Zinc Plated | QTY: 1 | JS-MD Part No: 1040900300
- Thimble | Material: Galvanised | QTY: 1 | JS-MD Part No: 1040902600
- Stop Sleeve | Material: Copper | QTY: 1 | JS-MD Part No: 1040804700

All the parts above are standard off-the-shelf items. They are also available to order from M&D and Jonker Sailplanes.

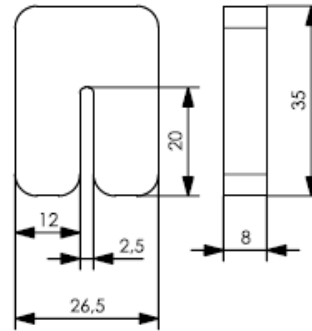
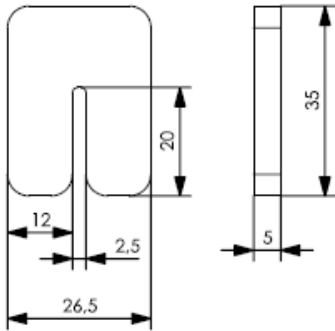
4.2 Special Tools

- Cable Crimper
- Perspex spacer 8mm and 5mm


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JS3 BELLY RELEASE CABLE REPLACEMENT SETUP TOOL 5mm

JS3 BELLY RELEASE CABLE REPLACEMENT SETUP TOOL 8mm



- Standard O-Ring pair for the hook (Air-tow or Winch-lunch)
- Force Measurement Tool (load cell)
- Torque Wrench

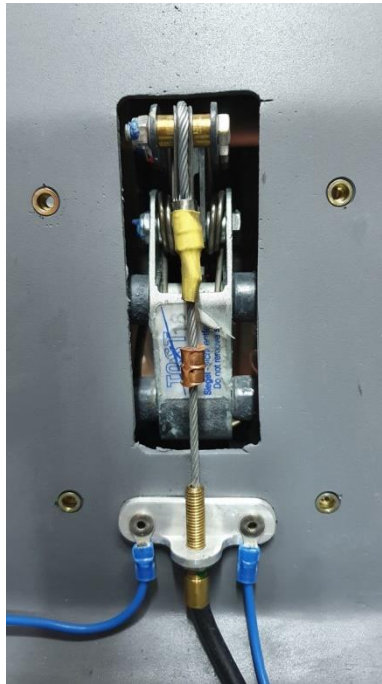
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5 Work Instructions

5.1 Rectification

This Section provides the instructions for the rectification to be performed on the affected aircraft.

1. Remove the seatback.
2. Remove the centre section cover over the control stick.
3. Remove the belly-hook cover located on the wheelbox behind the seatback.

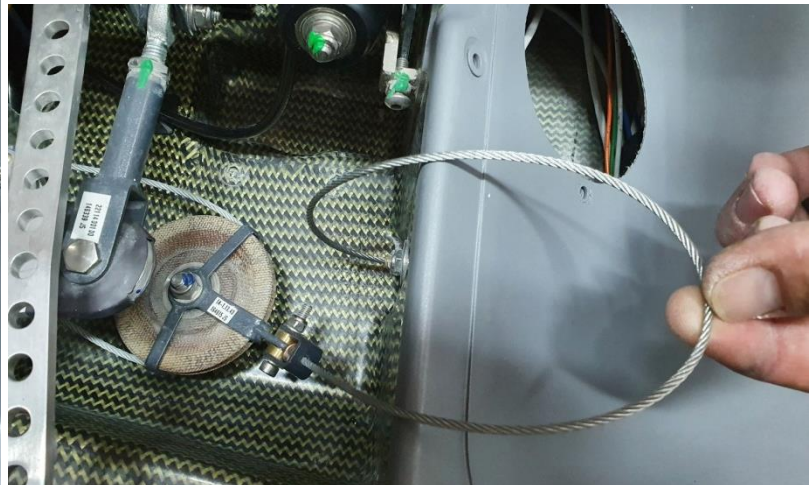



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- Remove the belly-hook lever M5 bolt as well as the brass sleeve.



- Cut cable and remove.




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6. Feed new cable from the front through the turn-around pulley lug and brass adjuster sleeve.



7. Fit the 5mm perspex spacer over the handle release cable between the plastic handle and the sleeve.




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- Fit the 8mm perspex spacer over the cable between the turn-around pulley lug and brass cable adjuster.



- Feed stop sleeve and Nicopress onto the rear end of the cable.




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10. Temporarily install belly-hook lever bolt with thimble and brass sleeve. This is needed to determine the length of the cable and the position of the crimp.



11. The thimble should be able to slide freely on the brass sleeve.
12. Mark the cable length to be crimped.
13. Remove the M5 bolt and brass sleeve as well as both the perspex spacers. This is to allow full range movement of the cable to ensure an easy crimping operation.
14. Crimp the Nicopress and thimble in the pre-determined and marked position on the cable. Ensure that 3mm of the cable is protruding from the other end of the Nicopress.

NOTE: Only 2 crimps are necessary.

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15. Temporary install belly-hook lever bolt with thimble and brass sleeve again. This is needed to determine the length of the stop sleeve on the cable.
16. Fully open the belly-hook as shown in the picture below and mark the position of the stop sleeve. The stop sleeve should be position 5mm from the brass cable adjuster.

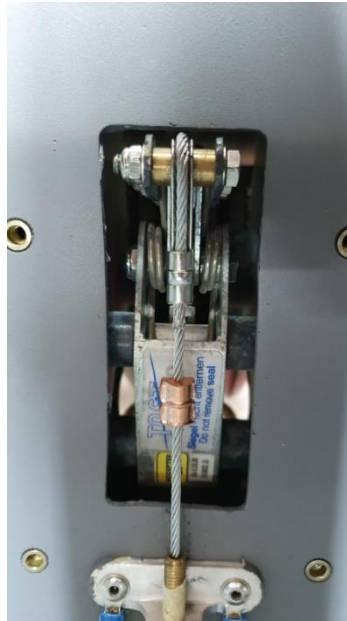


17. Remove the M5 bolt and brass sleeve. This is to allow full range movement of the cable to ensure an easy crimping operation.
18. Crimp the stop sleeve in the pre-determined and marked position on the cable.

NOTE: Only 2 crimps are necessary.

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19. Install the M5 bolt and brass sleeve. Secure the bolt in place with a new M5 self-locking Nyloc nut. Do not overtighten the nut, as the brass bush still need to turn freely around the bolt. Ensure at least 3 threads are visible after the nut has been installed.



20. Test the operation of the release cable mechanism.
 21. Test the force with the special tool while pulling the handle
 a. Force to be tested is 50kg
 22. Test both hooks with O-Ring-Pair to ensure that the operation is safe and free
 a. Full way (open and close)

6 References

None.