		Doc. No.: MD10-WOI-27-001
Type: JS-MD Single	Subject: Service Bulletin	ATA: 27
Model/s: JS-MD 3 JS-MD 3 RES	Title: Work Instructions for Rudder Pedal Exchange	Rev.: 00

Title: Work Instructions for Rudder Pedal Exchange and Adjustment
Service Bulletin

1 Document Management

1.1 List of Revisions

Rev.	Date	Description	Author	Affected Sections / Pages
00	24.01.2022	Initial Issue	P. Goralski	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 Single / JS-MD 3 JS-MD Single / JS-MD 3 RES	EASA.A.616

1.3 Document Acceptance

A **CVE** independently from his area of expertise or a second **DE** checks the form and content of the document according to section 1.1 and 1.2 and correctness and completeness of the content. The **CVE** approves the document.

	Function	Digital Signature (includes Date and Name)
Prepared	DE	
Checked	DE / CVE	
Approved	CVE	

Note: If no digital signature is used, the name and the date must be indicated in the digital signature box.

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3 Summary

This document contains all necessary steps to complete the content of Service Bulletin SB-MD10-011.

4 General

Warnings, cautions, and notes are used to emphasize important and critical instructions. Explanatory examples are as follows:

- WARNING** An operating procedure, practice, etc., which, if not correctly followed, could result in personal injury or loss of life.
- CAUTION** An operating procedure, practice, condition, or statement, which if not strictly observed, could result in damage to or destruction of equipment, loss of mission effectiveness, or long-term health hazards to personnel.
- NOTE** An operating procedure, condition, etc., which is essential to highlight.

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5 Rudder Footplate Exchange

5.1 Materials

- Loctite 243
- Set of Footplates, either Type 1 or Type 2. It is not permitted to mix footplates of different types.

Type 1

Rudder Pedal Footplate Left:
231 17 105 10

Rudder Pedal Footplate Right:
231 17 105 20



Type 2

Rudder Pedal Footplate Flat Left:
231 17 006 10

Rudder Pedal Footplate Flat Right:
231 17 006 20




5.2 Work Instruction

- 1) Loosen the four M4x10 countersink screws located at the top and bottom of each pedal, see Figure 1.



**Figure 1: Countersink cap screw locations on footplates
(Type 2 shown, similar locations on Type 1)**

- 2) Remove the old pedals and replace them with the new ergonomically improved version.
- 3) Apply a small amount of Loctite 243 on each of the M4x10 countersink Allen cap screws used to secure the pedals in place. Ensure all screws are installed.
- 4) If required (pilots' preference) the angle of the rudder pedals can be adjusted slightly forward to improve the comfort level of the new pedals.
See section 6 Rudder Pedal Angle Adjustment.

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6 Rudder Pedal Angle Adjustment

6.1 Materials

- M6 Nyloc Nut; 316 SS | QTY: 2 | JS Part No: 104 04 010 00


6.2 Work Instruction

- 1) For **JS-MD 3**:
If installed, remove the Jet engine box and Jet ECU as described in MD10-AMM-00-002 - JS-MD 3 Jet Sustainer Maintenance Manual Supplement.
For **JS-MD 3 RES**:
Open engine bay doors and extend engine pylon, if installed.
- 2) Locate the rudder bell crank BC1R behind the B9 bulkhead in the engine bay area.



Figure 2: Rudder bell crank at Bulkhead B9

- 3) The adjustment can be made by relocating the rudder cable adjustment plates connected to the rudder bell crank.

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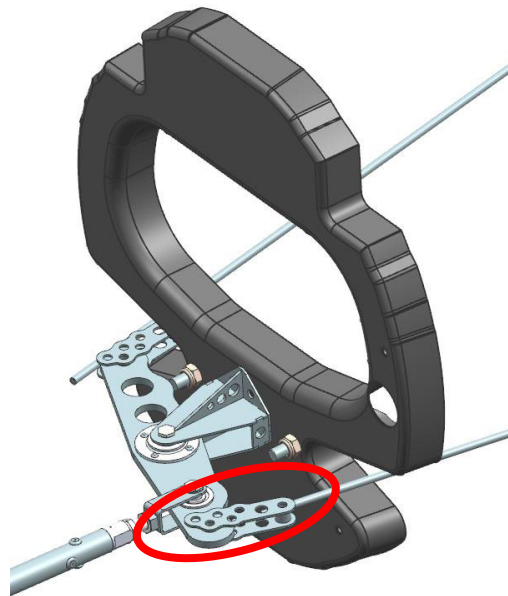


Figure 3: Bulkhead B9 with Rudder cable adjustment plates marked red

- 4) Loosen the M6 Nyloc nut and remove the bolt securing the adjustment plates in position.
- 5) Move the adjustment plates to the next forward or backward position. It can be moved further in a next iteration if the setup angles are still not satisfactory. Ensure Rudder pedal rake angle is within the limits in Figure 4.

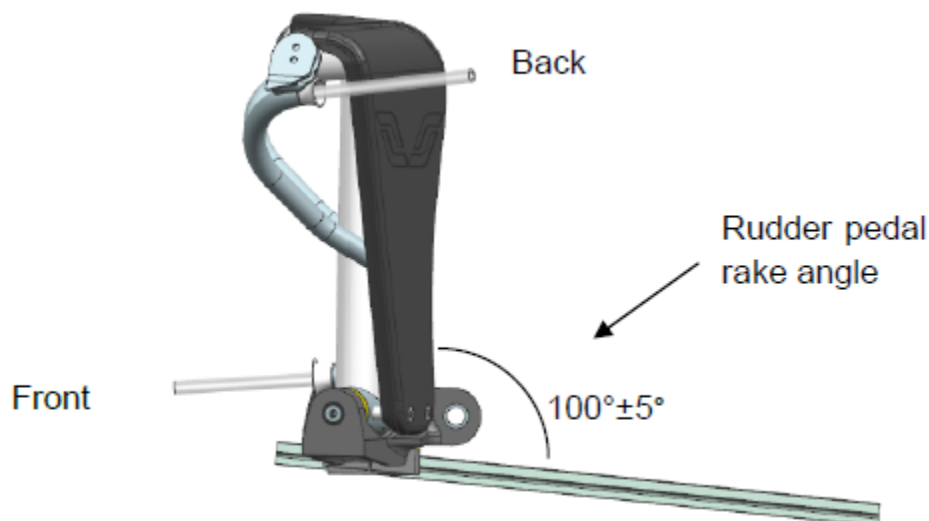



Figure 4: Pedal rake angle

- 6) Insert the bolt and ensure the bolt goes through both the top and bottom adjustment plates.
- 7) Check that the rudder pedals are centralised with the rudder centralised.

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8) Secure in place with a new M6 Nyloc nut.

NOTE

Do not over tighten the nut. The adjustment plates need to be able to swivel on the rudder bell crank during operation.

9) Check that the rudder deflection is within the limits prescribed in MD10-AMM-00-001 - JS-MD 3 Aircraft Maintenance Manual, with rudder pedals adjusted both fully forward and rearwards.

10) For **JS-MD 3**:

Install the Jet engine box and Jet ECU as described in MD10-AMM-00-002 - JS-MD 3 Jet Sustainer Maintenance Manual Supplement.

For **JS-MD 3 RES**:

Retract the engine pylon, if installed and close the engine bay doors.

7 References

/1/ MD10-AMM-00-001 - JS-MD 3 Aircraft Maintenance Manual

/2/ MD10-AMM-00-002 - JS-MD 3 Jet Sustainer Maintenance Manual Supplement

/3/ MD11-AMM-00-001 - JS-MD 3 RES Aircraft Maintenance Manual