

**MAINTENANCE MANUAL**  
**ORIGINAL MANUFACTURE'S INSTRUCTIONS**

**EQUIPMENT NAME:** HELI MOB 125

**APPROVED FOR USE ON AIRCRAFTS:**

AIRBUS H120 (EC120)

AIRBUS H125 (AS350)

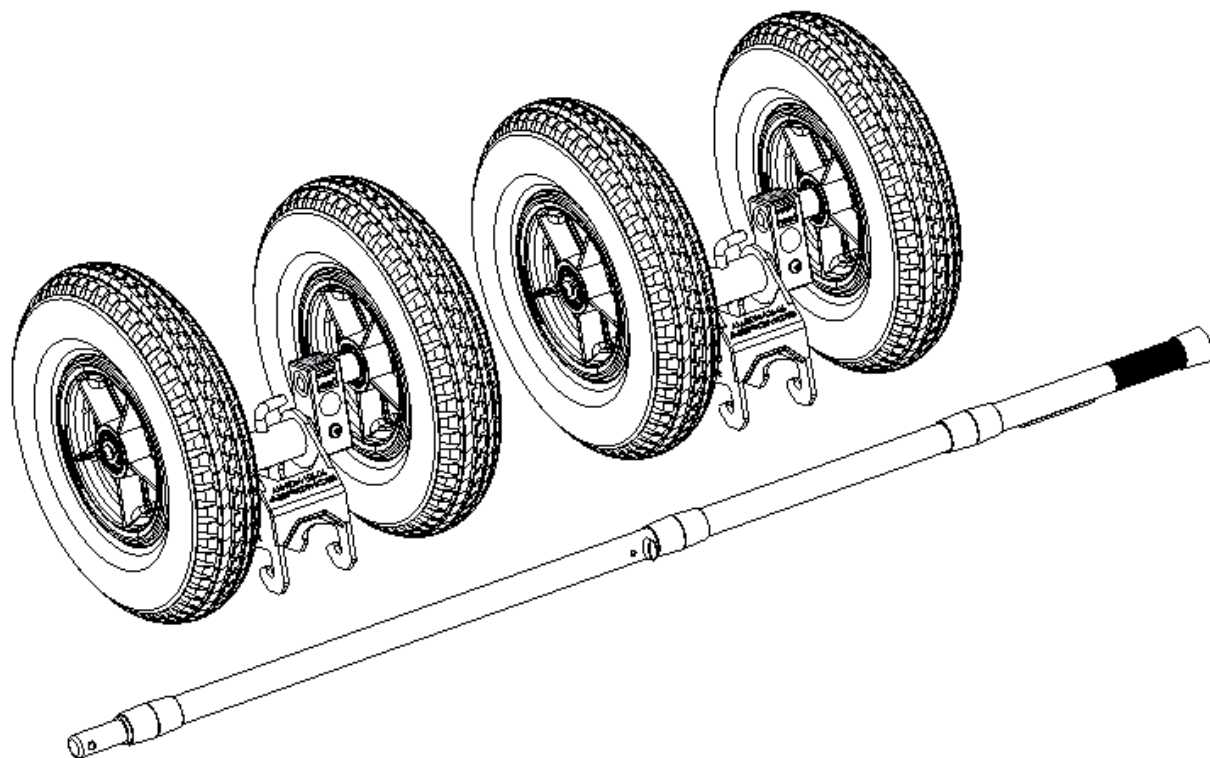
**APPLICABLE TO EQUIPMENT PART NUMBERS:**

AM-RDM-125-K02

AM-RDM-125-K03

**EQUIPMENT MANUFACTURER:**

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## **INTRODUCTION**

The procedures set out in this document are designed to ensure that the maintenance actions applicable to this equipment are carried out correctly, to guarantee safe and efficient maintenance and operation of the equipment.

Keeping maintenance up to date will prevent accidents and stop the product from being idle due to faults. Cleaning, lubrication and inspections are basic conditions for proper operation.

Procedures marked with \*\* are carried out exclusively by authorized personnel. Procedures marked with \*\* and in *italics* are carried out exclusively by the equipment manufacturer and must not be performed during maintenance operations.

To access the most up-to-date version of this document and other manuals, scan the QR-CODE below.



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## INSPECTION PLAN

| DESCRIPTION                         | CODE                             | PERIODICITY |
|-------------------------------------|----------------------------------|-------------|
| Equipment cleaning                  | <b><u>MM-AM-RDM-125, 3-1</u></b> | Monthly     |
| Lock Pin Inspection                 | <b><u>MM-AM-RDM-125, 6-1</u></b> | Yearly      |
| Tire Inspection                     | <b><u>MM-AM-RDM-125, 6-2</u></b> | Yearly      |
| Lever bar spring plunger adjustment | <b><u>MM-AM-RDM-125, 5-1</u></b> | Yearly      |

The other components are ON-CONDITION and must be in perfect condition. The equipment may only be used if it is complete and in perfect working order.

It is strictly forbidden and dangerous to use the equipment with any part, information plate or component missing. If any item or component needs to be replaced, contact Aeromob.

The equipment must contain all the items declared in the IPC so that the equipment is fit and safe for operation.

**Tires must be inflated to 74 PSI. It is mandatory that all 4 tires are calibrated before using the equipment. If the ambient temperature varies by more than 10 °C from the day of calibration until the moment the equipment is used, the tires must be recalibrated before use.**

**Calibration outside of specifications may cause risk of bodily injury and/or damage to equipment.**

**If the tires are dry or cracked, they must be replaced before the next use. Consult Aeromob for the supply of tires and tubes.**

In addition to aesthetics, keeping the equipment clean is important for your safety. Dirt can cover up abnormalities that could potentially lead to faults. During cleaning, it is necessary to check for cracks, looseness, deformation, noise, misalignment and any other wear or irregular characteristic.

# **SECTION 1**

## **TROUBLESHOOTING**

| TROUBLESHOOTING                                   |                                               |                                               |                                  |
|---------------------------------------------------|-----------------------------------------------|-----------------------------------------------|----------------------------------|
| EFFECT                                            | PROBLEM                                       | POSSIBLE CAUSES                               | MAINTENANCE PROCEDURE            |
| The lever bar comes out too easily from the body. | The spring plunger is not correctly adjusted. | The spring plunger is not correctly adjusted. | <b><u>MM-AM-RDM-125, 5-1</u></b> |

## **SECTION 2**

# **MAINTENANCE OPERATIONS**

Not applicable.

## **SECTION 3**

# **ROUTINE MAINTENANCE**

## **Routine Maintenance – Equipment Cleaning**

[MM-AM-RDM-125, 3-1]

### **A. Applicable Documents**

N/A

### **B. Special Tools**

N/A

### **C. Materials**

Kerosene.  
Clean towel.

### **D. Routine Replacement Parts**

N/A

### **E. Job Set-up**

E1. Put the equipment in a well-lit area.

### **F. Procedure**

F1. Equipment cleaning

- a. Put kerosene in the clean towel.
- b. Use the towel wet with kerosene to remove dirt from the equipment.

### **G. Close-up**

N/A

## **SECTION 4**

### **REMOVAL / INSTALLATION**

## Removal / Installation – Helimob Assembly

[MM-AM-RDM-125, 4-1]

### A. Applicable Documents

N/A

### B. Special Tools

Hot air gun 1800 W

### C. Materials

Steel cable Ø1,5 mm x 300 mm  
Steel cable clamp Ø1,5 mm  
Threadlocker glue

### D. Routine Replacement Parts

N/A

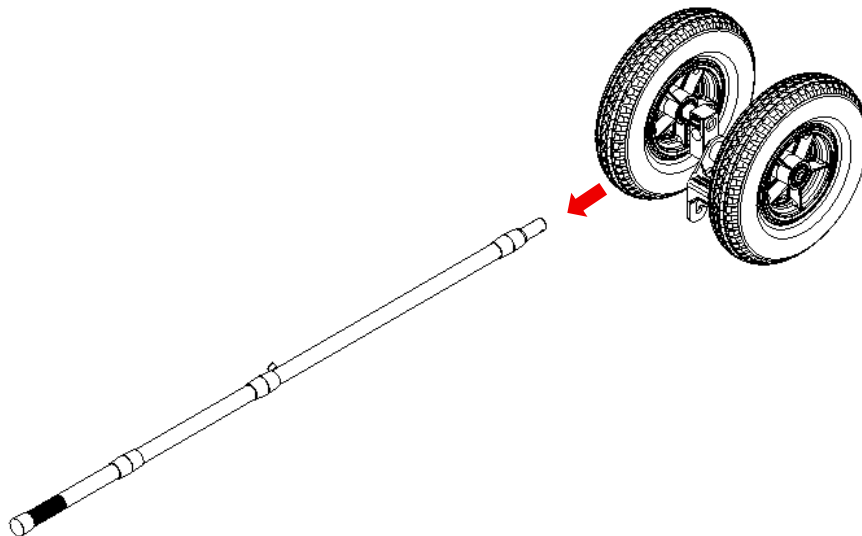
### E. Job Set-up

E1. Put the equipment in a well-lit area.

### F. Procedure

F1. Removal

- a. Pull the lever bar to remove it from the equipment.



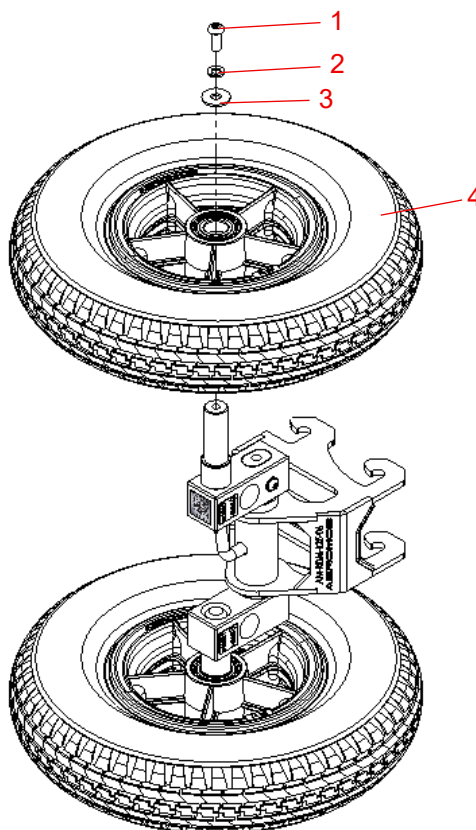
LEVER BAR REMOVAL

Figure 401

**MM-AM-RDM-125, 4-1**

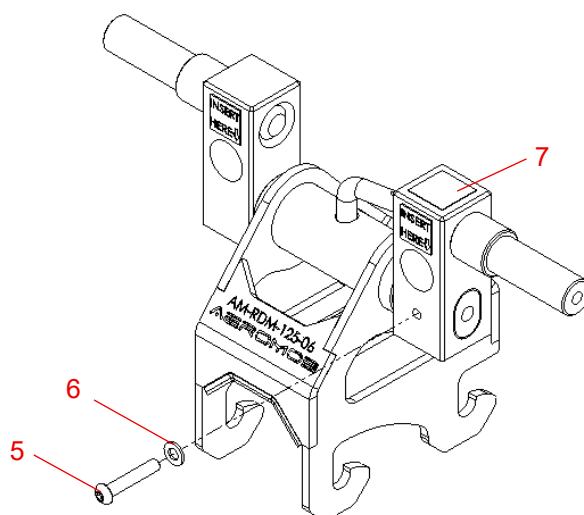
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- b. Apply the hot air gun for 1 to 2 minutes to melt the threadlocker glue on the screw (1). Loosen this screw and the washers (2) and (3) to release the wheel (4). Repeat this procedure to remove the other wheel.



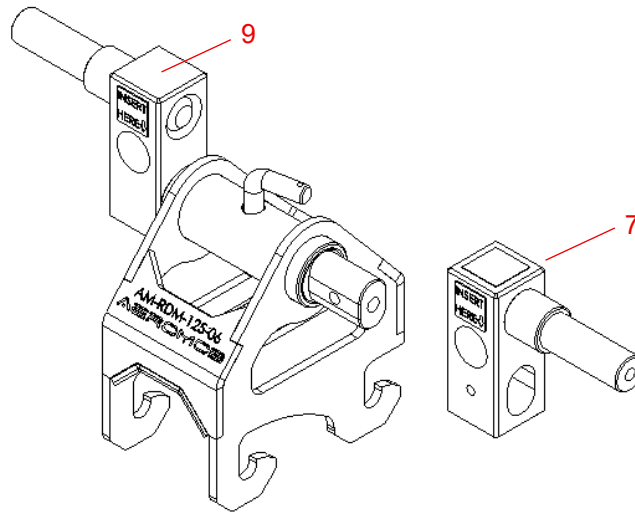
WHEEL REMOVAL  
Figure 402

- c. Apply the hot air gun for 1 to 2 minutes to melt the threadlocker glue on the screw (5). Loosen this screw and the washers (5) and (6) to release the auxiliary axle (7).



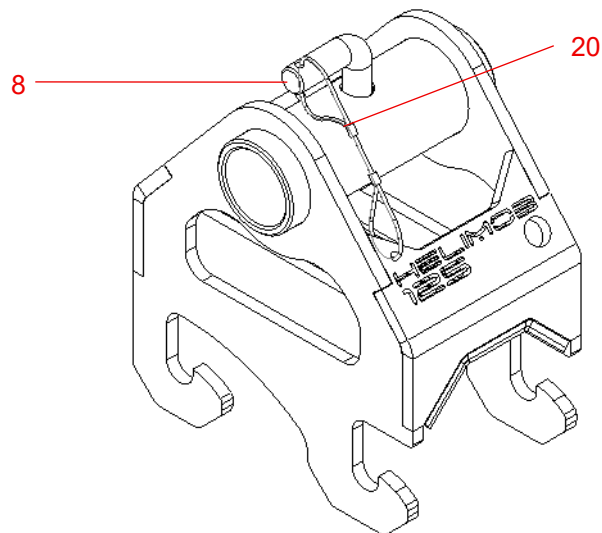
AUXILIARY AXLE RELEASE  
Figure 403

- d. Pull the auxiliary axle (7) to disconnect it from the main welded axle (9).



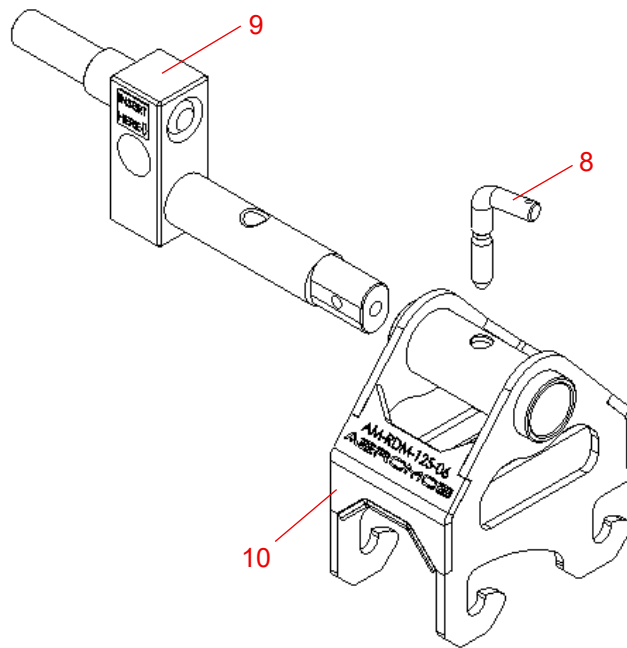
AUXILIARY AXLE REMOVAL  
Figure 404

- e. Cut the steel cable (20) to release the lock pin (8).



LOCK PIN RELEASE  
Figure 405

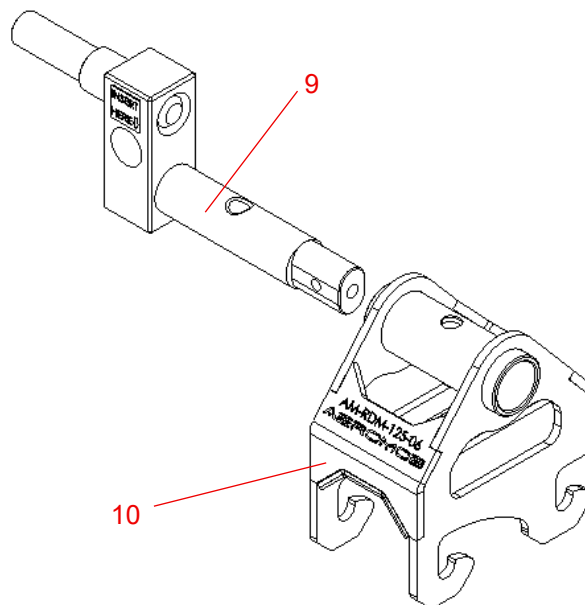
- f. Remove the lock pin (8) and pull the main welded axle (9) to separate it from the body (10).



MAIN WELDED AXLE REMOVAL  
Figure 406

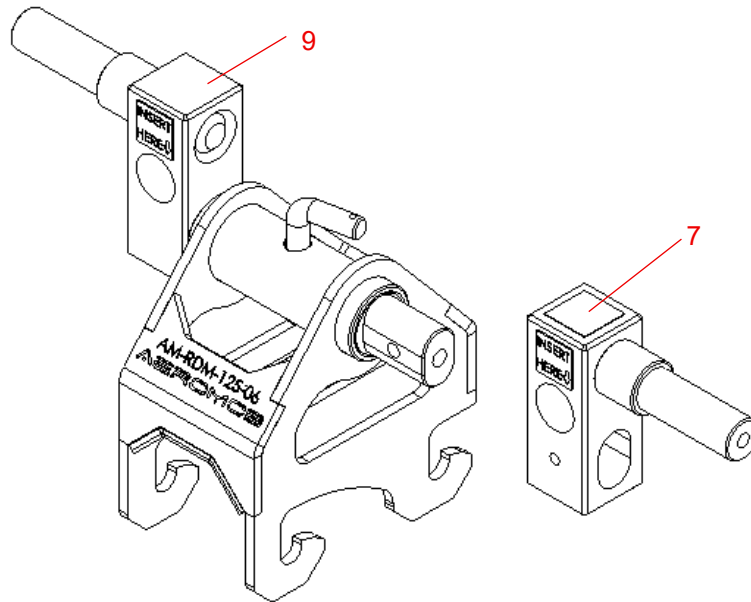
## F2. Installation

- a. Insert the main welded axle (9) into the body (10).



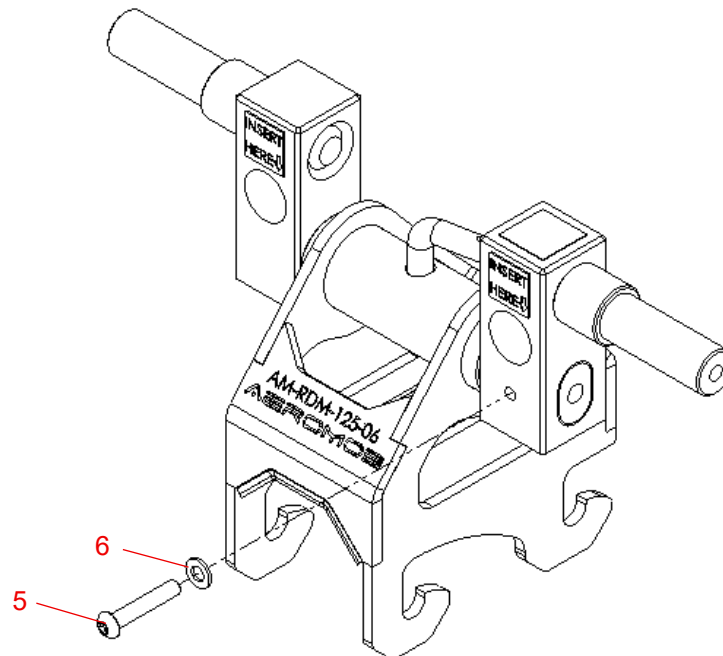
MAIN WELDED AXLE INSTALLATION  
Figure 407

- b. Connect the auxiliary axle (7) to the main welded axle (9).



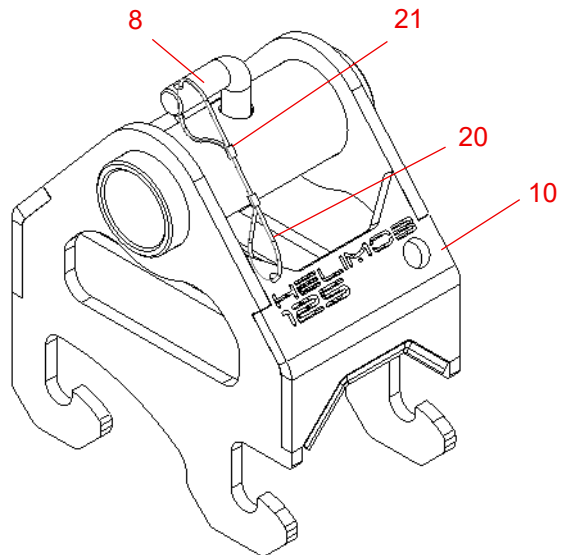
AUXILIARY AXLE CONNECTION  
Figure 408

- c. Apply threadlocker glue on the screw (5). Tighten this screw and the washer (6) to install the auxiliary axle to the main welded axle.



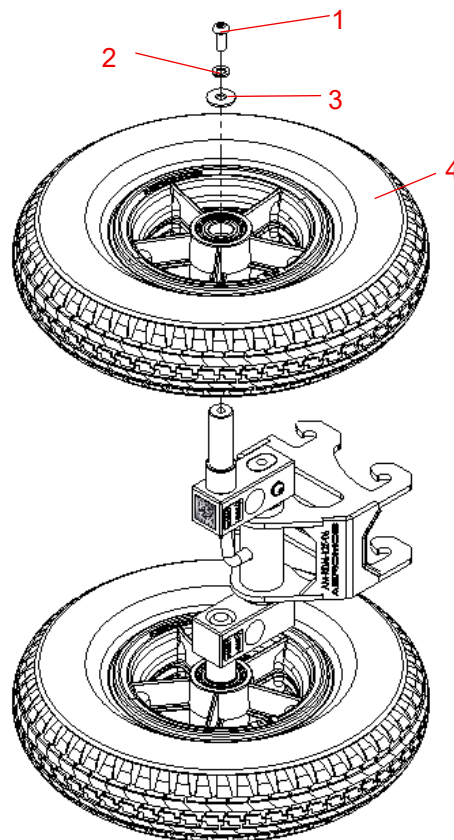
AUXILIARY AXLE INSTALLATION  
Figure 409

- d. Adjust the steel cable clamps to connect the lock pin (8) to the body (10) with the steel cable (20) with cable clamp (21).



STEEL CABLE TO CONNECT THE LOCK PIN TO THE BODY  
Figure 410

- e. Insert the wheel (4) on the axle.
- f. Apply threadlocker glue on the screw (1). Tighten this screw and the washers (2) and (3).
- g. Repeat this procedure to insert the other wheel.



WHEEL ASSEMBLY  
Figure 411

- h. Install the lever bar on the equipment.

**G. Close-up**

N/A

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## **Tear-down / Build-up – Wheels**

[MM-AM-RDM-125, 4-2]

### **A. Applicable Documents**

N/A

### **B. Special Tools**

Hot air gun 1800 W  
Bearing puller tool

### **C. Materials**

N/A

### **D. Routine Replacement Parts**

N/A

### **E. Job Set-up**

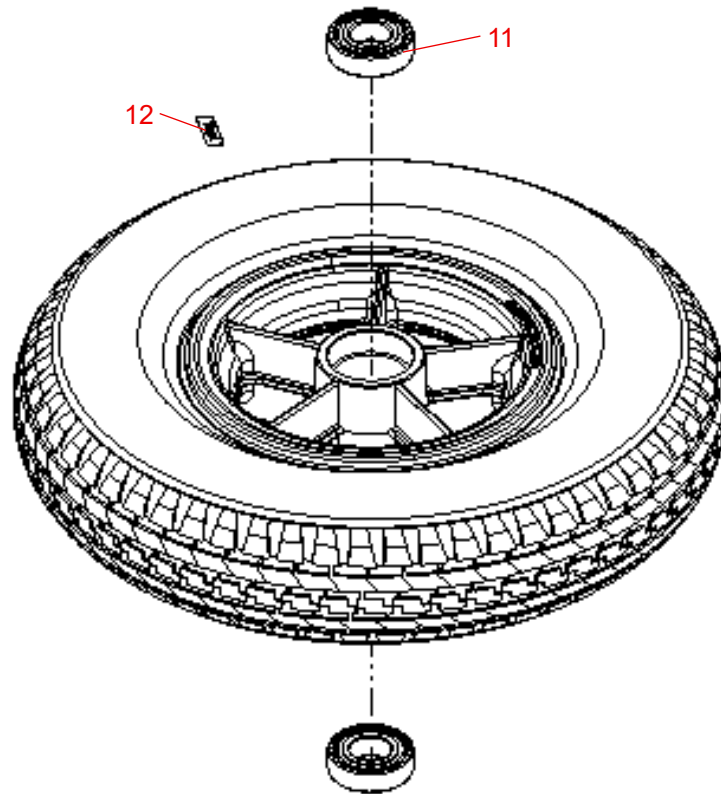
E1. Put the equipment over a clean, rubberized, and organized workbench.

E2. Do procedure MM-AM-RDM-125, 4-1, F1, a and MM-AM-RDM-125, 4-1, F1, b to remove the lever bar and the wheel from equipment.

### **F. Procedure**

#### **F1. Tear-down**

- a. Place the wheel over workbench.
- b. Use the bearing puller tool to remove the ball bearing from wheel.
- c. Turn the wheel and repeat the procedure to remove the bearing from the other side.
- d. Apply the hot air gun to the tag (12) for 30 seconds or until the glue melts.



WHEEL TEAR-DOWN AND BUILD-UP  
Figure 412

**F2. Build-up**

- a. Assemble the bearing (11).
- b. Bond the tag (12) on the rim edge.
- c. Turn the wheel and install the bearing on the other side.

**G. Close-up**

G1. Do procedure MM-AM-RDM-125, 4-1, F2, e and MM-AM-RDM-125, 4-1, F2, f to install the wheel onto the equipment.

## Tear-down / Build-up – Lever bar

[MM-AM-RDM-125, 4-3]

### A. Applicable Documents

N/A

### B. Special Tools

Hot air gun 1800 W

### C. Materials

N/A

### D. Routine Replacement Parts

N/A

### E. Job Set-up

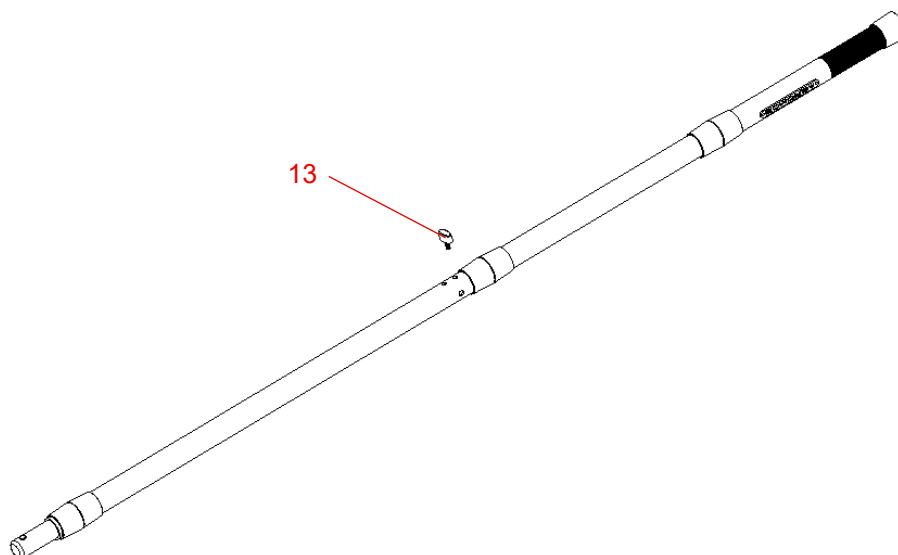
E1. Put the equipment over a clean, rubberized, and organized workbench.

E2. Do the procedure MM-AM-RDM-125, 4-1, F1, a to remove the lever bar from the equipment.

### F. Procedure

F1. Tear-down

- a. Twist the lock knob (13) to remove it.

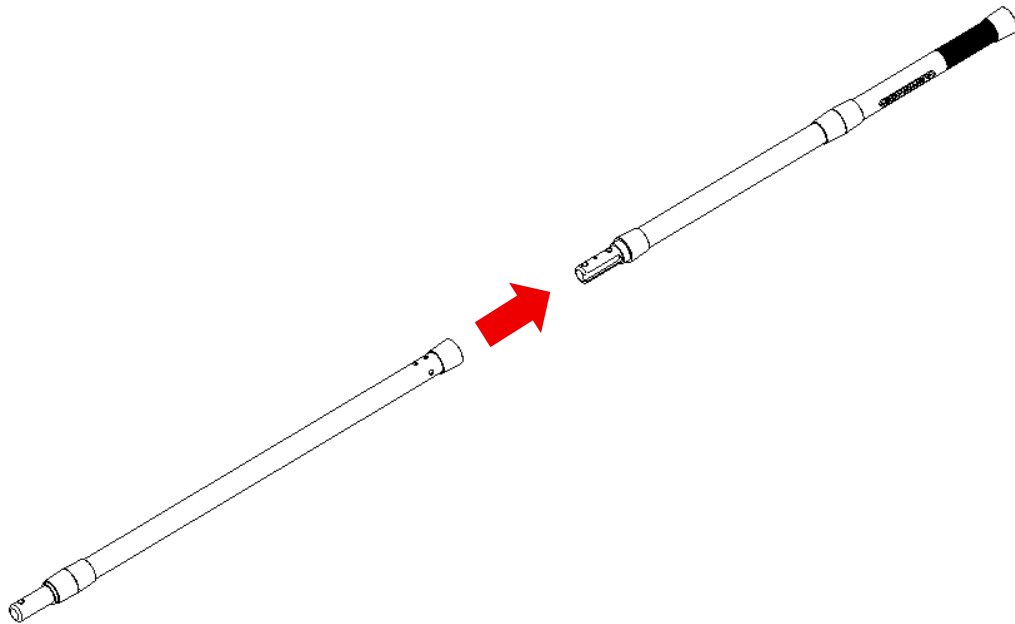


LOCK KNOB REMOVAL  
Figure 413

## MM-AM-RDM-125, 4-3

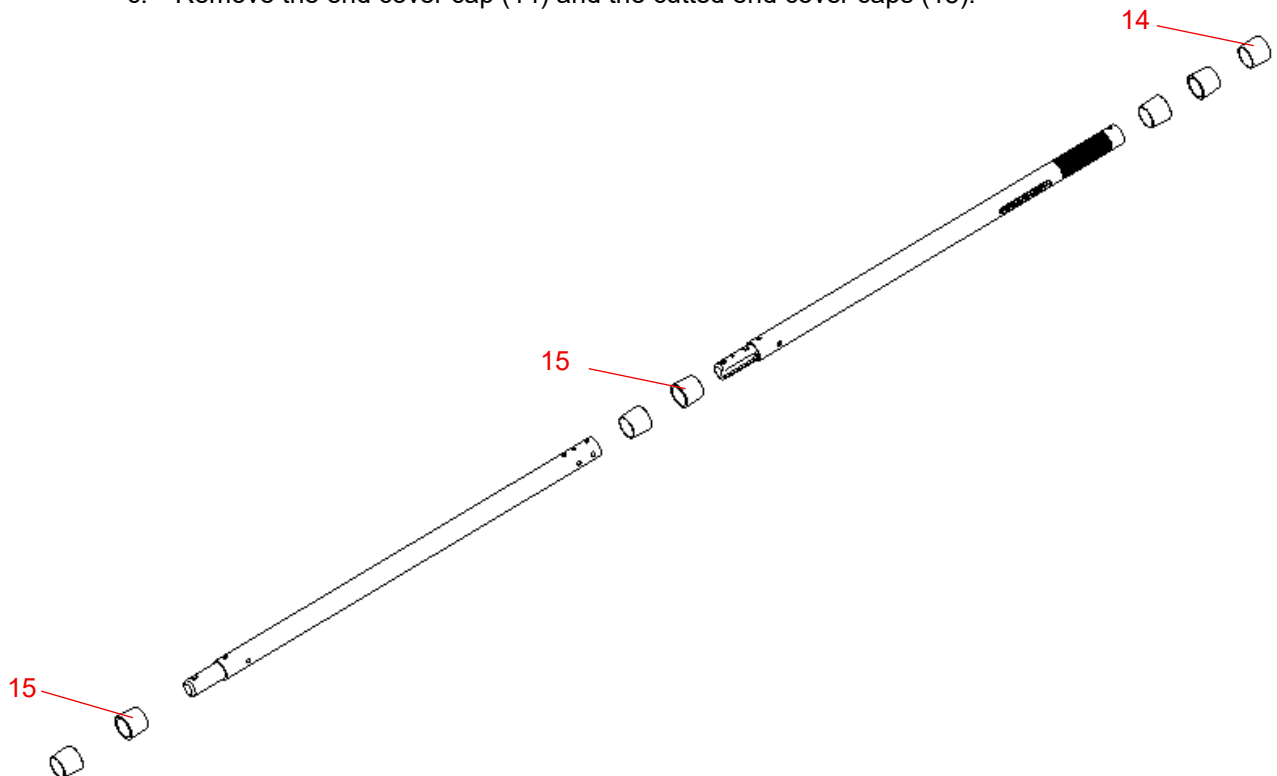
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- b. Disconnect the lower lever bar from the upper lever bar.



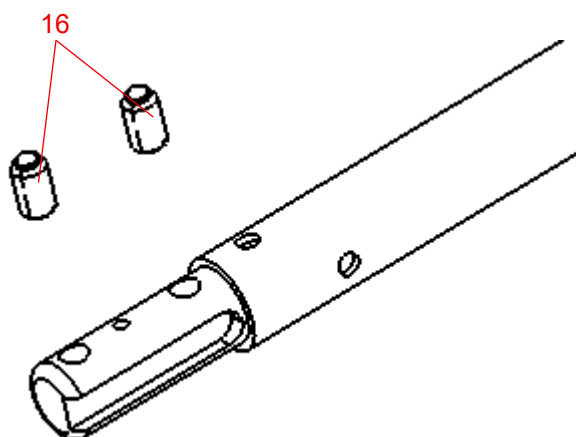
UPPER AND LOWER LEVER BAR DISCONNECTION  
Figure 414

- c. Remove the end cover cap (14) and the cutted end cover caps (15).



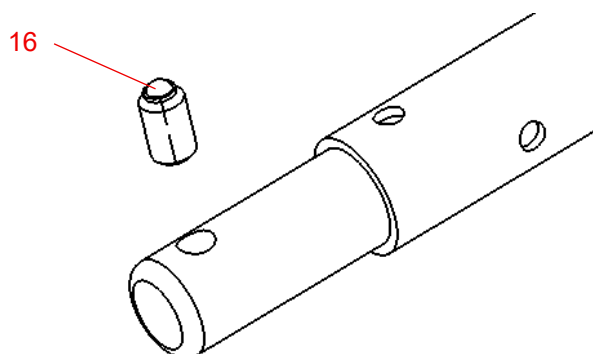
RUBBER CAPS REMOVAL  
Figure 415

- d. Loosen the spring plungers (16) to remove them from the upper lever bar.



SPRING PLUNGERS' REMOVAL FROM UPPER LEVER BAR  
Figure 416

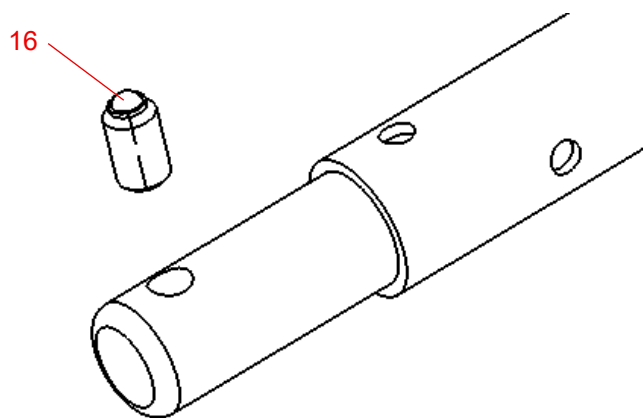
- e. Loosen the single spring plunger (16) on the edge of the lower lever bar.



SPRING PLUNGER REMOVAL FROM LOWER LEVER BAR  
Figure 417

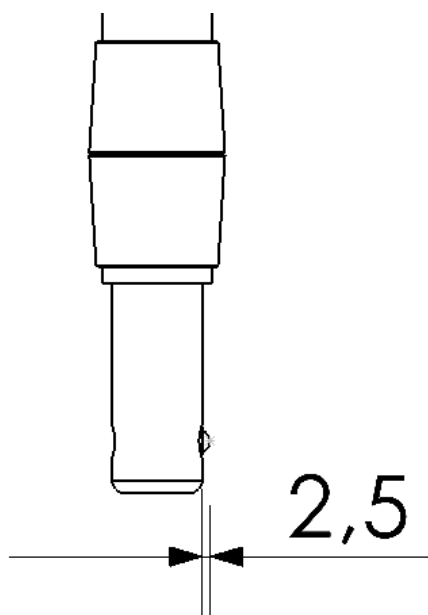
## F2. Build-up

- a. Install the spring plunger (16) on the edge of the lower lever bar.



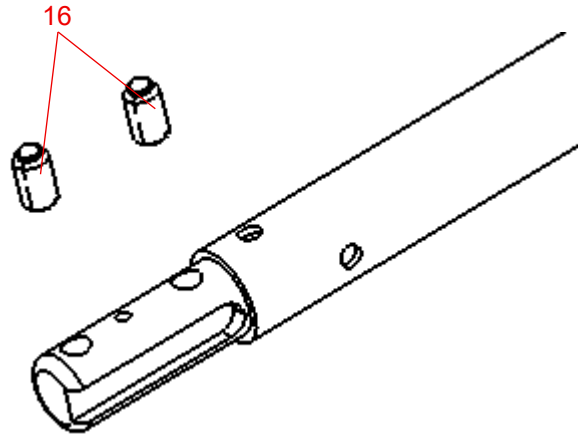
SPRING PLUNGER INSTALLATION ON THE LOWER LEVER BAR  
Figure 418

- b. Make sure that the distance between the face of the axle and the face of the spring plunger sphere is 2,5 mm.



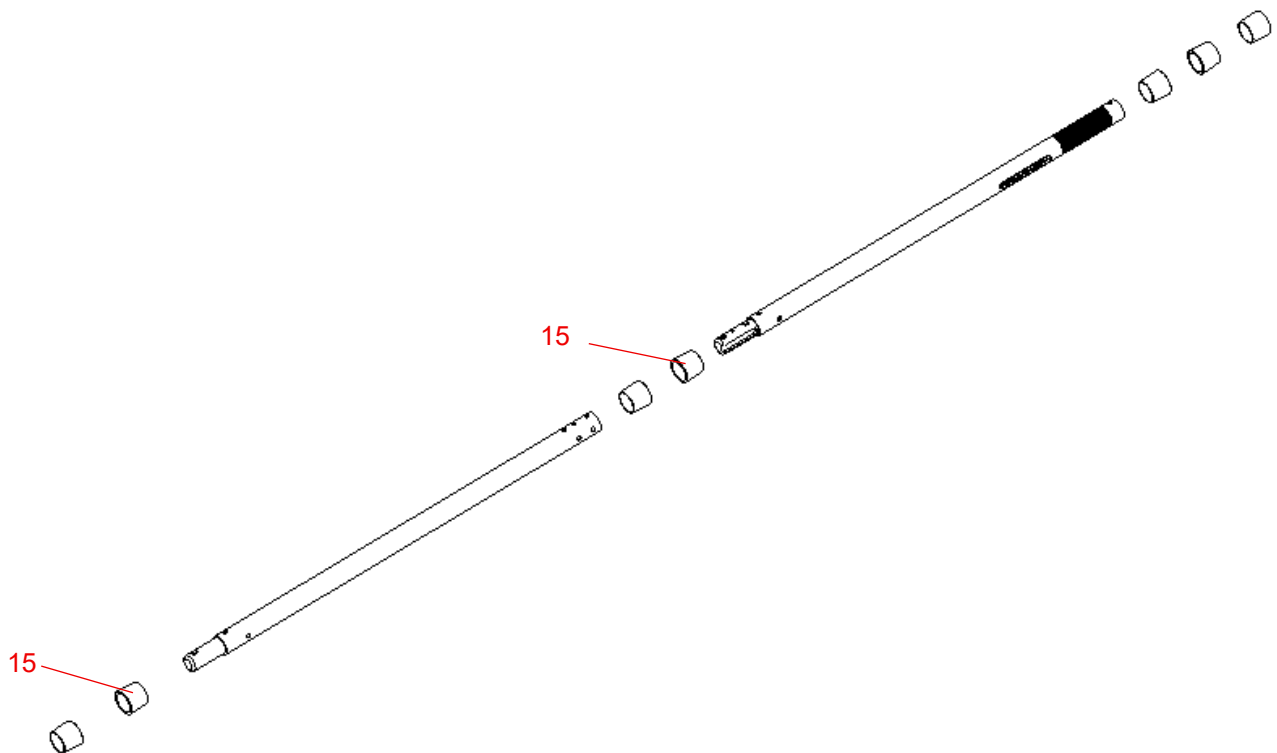
SPRING PLUNGER SPHERE DISTANCE  
Figure 419

- c. Insert the two spring plungers (16) into the upper lever bar.



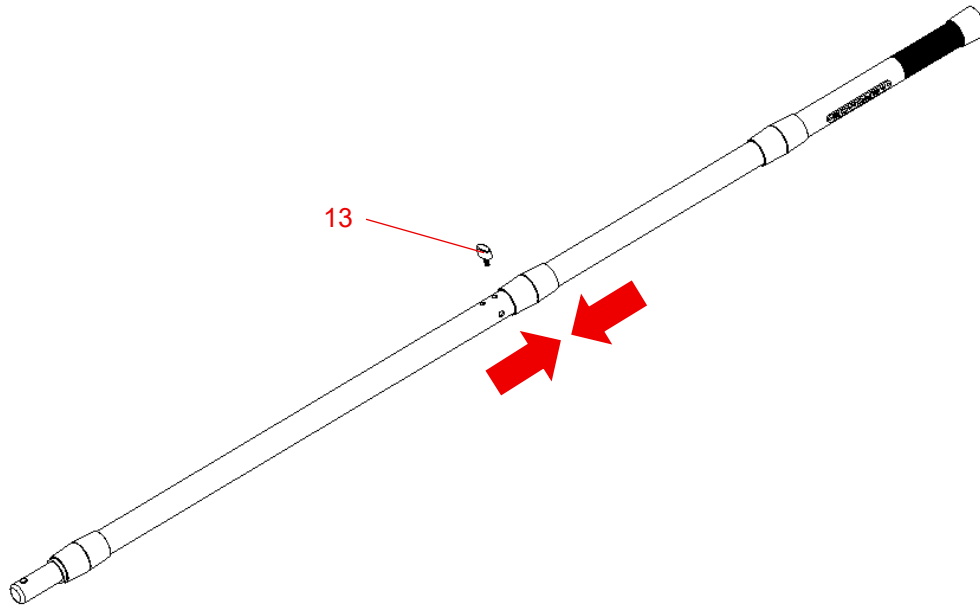
SPRING PLUNGERS' INSTALLATION ON THE UPPER LEVER BAR  
Figure 420

- d. Install the end cover cap (14) and the cutted end cover caps (15).



RUBBER CAPS INSTALLATION  
Figure 421

- e. Connect the lower lever bar to the upper lever bar.
- f. Twist the lock knob (13) to fasten the upper lever bar to the lower lever bar.



DUAL LEVER BAR ASSEMBLY  
Figure 422

**G. Close-up**

G1. Do procedure MM-AM-RDM-125, 4-1, F2, e to install the dual lever bar onto the equipment.

## Tear-down / Build-up – Body

[MM-AM-RDM-125, 4-4]

### A. Applicable Documents

N/A

### B. Special Tools

Hot air gun 1800 W

### C. Materials

Contact adhesive  
Solvent

### D. Routine Replacement Parts

N/A

### E. Job Set-up

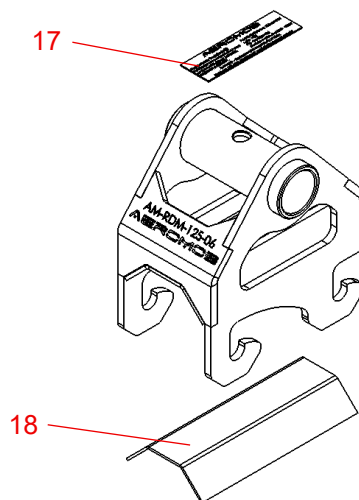
E1. Put the equipment over a clean, rubberized, and organized workbench.

E2. Do the procedure MM-AM-RDM-125, 4-1, F1 to disassemble the equipment.

### F. Procedure

#### F1. Tear-down

- a. Apply hot air gun over the ID plate (17) for 30 seconds to melt the glue.



BODY TEAR-DOWN  
Figure 422

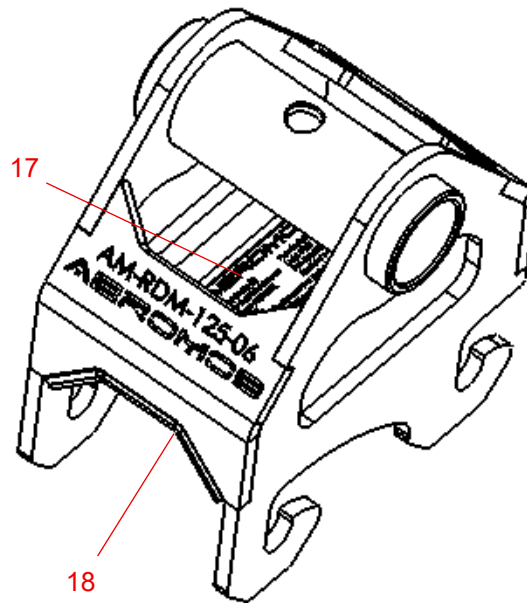
## MM-AM-RDM-125, 4-4

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- b. Remove ID plate (17).
- c. Pull the anti-abrasive felt (17) to remove it from the body.
- d. Apply solvent to remove the remaining glue from the surface.

**F2. Build-up**

- a. Clean the surface where the felt will be bonded.
- b. Apply contact adhesive to the surface to bond the anti-abrasive felt (18).
- c. Stick the ID plate (17) on the body. The place must be centered and aligned.



BODY BUILD-UP  
Figure 423

**G. Close-up**

G1. Do the procedure MM-AM-RDM-125, 4-1, F2 to assemble the equipment.

## Tear-down / Build-up – Main welded axle

[MM-AM-RDM-125, 4-5]

### A. Applicable Documents

N/A

### B. Special Tools

Hot air gun 1800 W

### C. Materials

Solvent

### D. Routine Replacement Parts

N/A

### E. Job Set-up

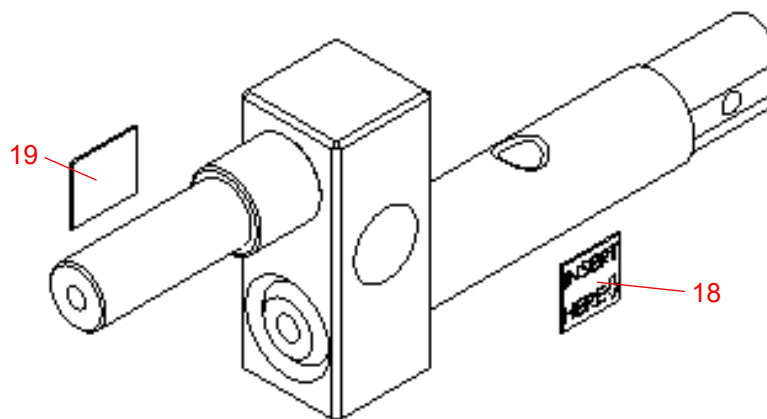
E1. Put the equipment over a clean, rubberized, and organized workbench.

E2. Do the procedure MM-AM-RDM-125, 4-1, F1 to disassemble the equipment.

### F. Procedure

#### F1. Tear-down

- a. Apply hot air gun for 30 seconds in each tag (18) and (19) to melt the glue.
- b. Remove “insert here” tag (18) and “X” tag (19).
- c. Apply solvent to remove the glue remaining over surface.



MAIN WELDED AXLE ASSEMBLY  
Figure 424

**F2. Build-up**

- a. Clean the surface where the tag will be bonded.
- b. Bond the tag (18) on the main welded axle.
- c. Bond the tag (19) on the main welded axle.

**G. Close-up**

G1. Do the procedure MM-AM-RDM-125, 4-1, F2 to assemble the equipment.

## Tear-down / Build-up – Auxiliary axle

[MM-AM-RDM-125, 4-6]

### A. Applicable Documents

N/A

### B. Special Tools

Hot air gun 1800 W

### C. Materials

Solvent

### D. Routine Replacement Parts

N/A

### E. Job Set-up

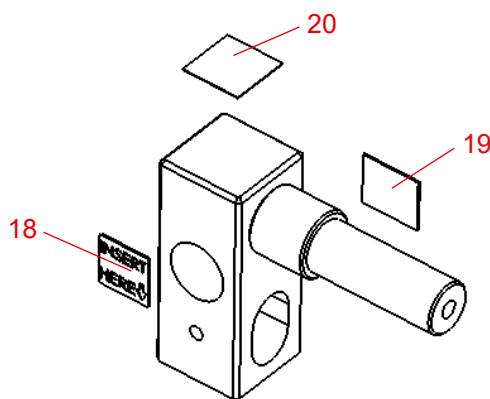
E1. Put the equipment over a clean, rubberized, and organized workbench.

E2. Do the procedure MM-AM-RDM-125, 4-1, F1 to disassemble the equipment.

### F. Procedure

#### F1. Tear-down

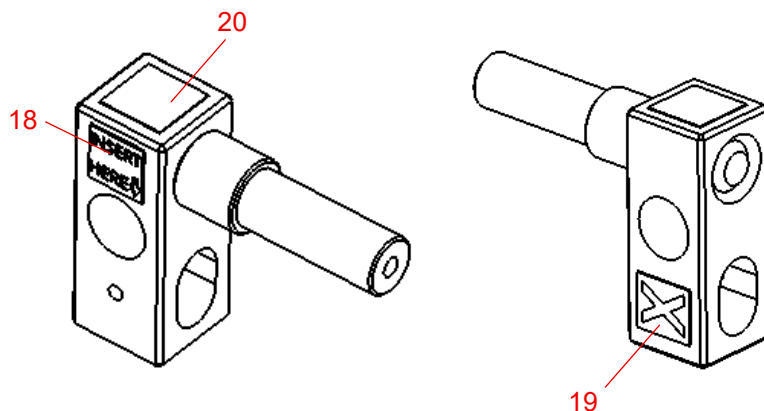
- a. Apply hot air gun for 30 seconds in each tag to melt the glue.
- b. Remove “insert here” tag (18), QR code tag and “X” tag (19). Apply solvent to remove the glue remaining over surface.



SECONDARY AXLE DISASSEMBLY  
Figure 425

**F2. Build-up**

- a. Clean the surface where the tag will be bonded.
- b. Bond the tag (18) on the auxiliary axle.
- c. Bond the tag (19) on the auxiliary axle.
- d. Bond the QR (20) code tag on the auxiliary axle.



SECONDARY AXLE ASSEMBLY  
Figure 426

**G. Close-up**

- G1. Do the procedure MM-AM-RDM-125, 4-1, F2 to assemble the equipment.

## **SECTION 5**

### **ADJUSTMENT / TEST**

## Adjustment / Test – Lever Bar Spring Plunger

[MM-AM-RDM-125, 5-1]

### A. Applicable Documents

N/A

### B. Special Tools

N/A

### C. Materials

N/A

### D. Routine Replacement Parts

N/A

### E. Job Set-up

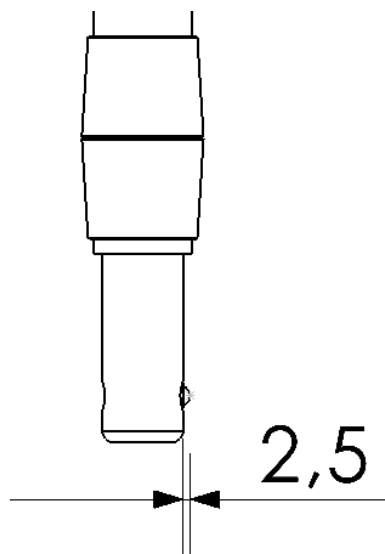
E1. Put the equipment in a well-lit area.

E2. Do the procedure MM-AM-RDM-125, 4-1, F1, a to remove the lever bar from the equipment.

### F. Procedure

#### F1. Lever Bar Spring Plunger

- a. Make sure the spring plunger sphere is about 2,5 mm away from the face of the lever bar.



SPRING PLUNGER SPHERE DISTANCE  
Figure 501

- b. If the distance is larger or smaller, swist the spring plunger screw to until the specified distance is achieved.
- c. Test if the attachment is functional. If not, contact Aeromob technical support.

**G. Close-up**

G1. Do the procedure MM-AM-RDM-125, 4-1, F2, h to install the lever bar in the equipment.

## **SECTION 6**

### **INSPECTION / CHECK**

## Inspection / Check – Lock Pin Inspection

[MM-AM-RDM-125, 6-1]

### A. Applicable Documents

N/A

### B. Special Tools

N/A

### C. Materials

N/A

### D. Routine Replacement Parts

N/A

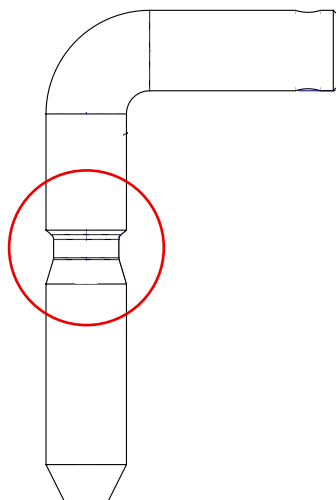
### E. Job Set-up

E1. Put the equipment in a well-lit area.

### F. Procedure

#### F1. Lock Pin Inspection

- a. Remove the lock pin from the socket.
- b. Do a visual inspection of the area shown in Figure 601. This area is very important to the safe operation of the equipment.



LOCK PIN AREA  
Figure 601

- c. If any crack is identified in the lock pin, it must be replaced. Contact Aeromob Technical Support to request spare part.
- d. With the lock pin replacement, do the procedure MM-AM-RDM-125, 8-1 to replace the damaged lock pin with the new one.

**G. Close-up**

N/A

## **Inspection / Check – Tire Inspection**

[MM-AM-RDM-125, 6-2]

### **A. Applicable Documents**

N/A

### **B. Special Tools**

N/A

### **C. Materials**

N/A

### **D. Routine Replacement Parts**

N/A

### **E. Job Set-up**

E1. Put the equipment in a well-lit area.

### **F. Procedure**

F1. Tire Inspection

- a. Do a visual inspection of the tires.
- b. If any deep crack or damage is identified, contact Aeromob Technical Support.

### **G. Close-up**

N/A

## **SECTION 7**

### **CLEANING / PAINT**

Not applicable.

## **SECTION 8**

### **REPAIR**

## Repair – Lock Pin Replacement

[MM-AM-RDM-125, 8-1]

### A. Applicable Documents

IPC-AM-RDM-125-K02

### B. Special Tools

N/A

### C. Materials

N/A

### D. Routine Replacement Parts

LOCK PIN (PN H125\_15) (1-1/2)

### E. Job Set-up

E1. Do the procedure MM-AM-RDM-125, 4-1, F1, e to remove the old lock pin.

### F. Procedure

F1. Lock pin replacement

- a. Replace the damaged lock pin with the new one.

### G. Close-up

G1. Do the procedure MM-AM-RDM-125, 4-2, F1, d to connect the new lock pin to the body with the steel cable.

## **SECTION 9**

# **PRESERVATION**

Not applicable.