

Maintenance Manual

Maquet Equipment



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Subject to technical changes.

The illustrations and technical specifications provided in this manual may, on account of future product developments, differ slightly from the actual product supplied.

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Contents

1	Introduction	5
1.1	Preface	5
1.2	Liability	5
1.3	Other documents relating to this product	5
1.4	Symbols used in this manual	6
	1.4.1 Cross-references	6
	1.4.2 Reference numbers	6
	1.4.3 Actions and results	6
	1.4.4 Menus and buttons	6
	1.4.5 Hazard levels	6
	1.4.6 Indications	7
1.5	Symbols used on the product	7
1.6	Revision history	7
2	Safety instructions	8
3	Technical specifications	10
4	Maintenance procedures	11
4.1	Tools required for maintenance	11
4.2	Periodic maintenance	11
	4.2.1 Periodic replacement cycles	11
5	Adjustments	13
5.1	Lubrication	13
5.2	Adjustment of Acrobat 2000 and Ondaspace spring arms	14
5.3	Adjusting the Valia spring arms	15
5.4	Adjusting the brakes	17
	5.4.1 Adjusting the suspension brakes	
	5.4.2 Adjusting the XHS0 monitor mount tilt brake	18
	5.4.3 Adjusting the XS/XD monitor mount brakes	18
	5.4.4 Adjusting the XS32 monitor mount tilt brakes	19
	5.4.5 Adjusting the brakes on SC07-SC05 camera mount	19
6	Inspections	20
6.1	Mechanical inspections	20
6.2	Electrical safety tests	25
6.3	Recording the inspection	33



1 Introduction

1.1 Preface

Dear Installers:

- Technician must be trained and accredited by Getinge.
- This document is the property of the Getinge company, and may not be reproduced, in whole
 or in part, without our permission. This document was produced with the assistance of the
 company's technical department in France. It may be improved thanks to your remarks, and
 extended for the different installations you encounter, to produce an up-to-date reference
 document for servicing.

Send any correspondence to:

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Given the confidential nature of the information in this document, it is distributed exclusively to customers and installers of Getinge products.

- Make sure that you have the latest versions of these documents. Check with the Getinge network to confirm this is correct.
- Make sure that your subcontractor is qualified for this task and ask for written proof of certification. Perform regular inspections at the subcontractor's premises and verify for your own organisation the compliance of the maintenance performed.
- Getinge may not be held liable for any damage or injury resulting from failure to follow these recommendations.

1.2 Liability

Modifications to the product

The product must not be modified in any way without the prior written consent of Getinge.

Compatibility with other medical devices

Only medical devices approved in accordance with IEC 60601-1 or UL 60601-1 should be installed on the system.

The compatible accessories and their technical specifications (e.g., maximum weight, etc.) are detailed in the corresponding chapter.

1.3 Other documents relating to this product

- Maquet Equipment Installation Recommendations (Ref. ARD01826)
- Maquet Equipment Installation Manual (Ref. ARD01824)
- Maquet Equipment Instructions For Use (Ref. ARD01821)
- Maquet Equipment Repair Instructions (Ref. ARD01822)
- Maquet Equipment Decommissioning Instructions (Ref. ARD01825)

1.4 Symbols used in this manual

1.4.1 Cross-references

References to other pages of the manual are identified by the ">>" symbol.

1.4.2 Reference numbers

Reference numbers in illustrations and text are shown in a square box 1.

1.4.3 Actions and results

Actions to be performed by the user are listed with sequence numbers; the " \succ " symbol is used to show the result of an action.

Example:

Prerequisites:

- The sterilisable handle must be compatible with the product.
- 1. Fit the handle to the mount.
 - > A click is heard.
- 2. Turn the handle until it locks into place with a second click.

1.4.4 Menus and buttons

Menu and button names are shown in **bold**. **Example:**

- 1. Press the **Save** button.
 - > The changes are saved and the **Favourites** menu is displayed.

1.4.5 Hazard levels

The text in safety instructions describes types of risk and how to avoid them. Safety instructions are classified into the following three levels:

Symbol	Hazard level	Meaning
	DANGER!	Indicates a direct and immediate risk that may be fatal or cause very serious injuries potentially lead- ing to death.
	WARNING!	Indicates a potential risk that may cause injuries, health hazards or serious material damage leading to injuries.
	CAUTION!	Indicates a potential risk that may cause material damage.

Tab. 1: Hazard levels of safety instructions

1.4.6 Indications

Symbol	Indication type	Meaning
1	NOTICE	Additional assistance or useful information not res- ulting in the risk of injuries or the risk of material damage.

Tab. 2: Types of indications in the document

1.5 Symbols used on the product

	Follow the instructions for use (IEC 60601-1:2012)	X	Do not discard with conventional waste
i	Follow the instructions for use (IEC 60601-1:2005).	CE	CE marking (Europe)
	Follow the instructions for use (IEC 60601-1:1996).	c W us	UR mark (Canada and United States)
	Manufacturer + manufacturing date		Hand-pinching hazard
REF	Product code	MD	Medical Device (MD) marking
SN	Product serial number	UDI	Unique device identification

1.6 Revision history

- General update of the Maintenance Instructions
- Addition of the estimated maintenance time
- Update of the safety warnings
- Integration of the Valia spring arms
- Inspection of safety labels in the maintenance protocol

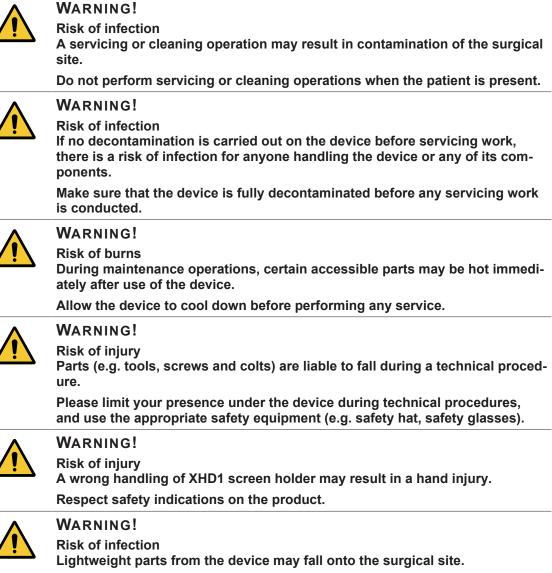
2 Safety instructions



WARNING! Risk of electric shock

Anyone not trained in installation, maintenance or decommissioning operations is exposed to the risk of injury or electric shock.

Installation, maintenance and decommissioning of the device or components of the device must be performed by a Getinge technician or a Getinge-trained service technician.



Check that all fastenings, covers, cover plates and bumpers on the device are properly in place.

A	WARNING!
<u>/!</u> \	Risk of electric shock or injury The use of screws or spare parts other than those supplied by the manufac- turer may damage the device.
	Use only screws and spare parts supplied by the manufacturer.
^	CAUTION!
<u>/!</u>	Risk of equipment damage If adjustments are made incorrectly or not at all, the lighthead or installed equipment may drift.
	Make all adjustments (balance, stop and brakes) during installation and then

after all maintenance operations.

3 Technical specifications

The technical specifications can be viewed in:

- Installation Instructions (https://swp-linkone.getingegroup.local/):
 - Mechanical (device, tightening torque) and electrical.
- Instructions for Use (https://eifu.getinge.com/fr/):
 - Optical, electrical and mechanical.

4 Maintenance procedures

4.1 Tools required for maintenance

NOTICE

After-sales service kits are available on the spare parts platform

The LinkOne platform is accessible on the GetingeOnline portal: https://swp-linkone.getingegroup.local/

Part No.	Description	
ARD572059999	OPM 051 - METRIX MX MULTIMETER (54-59HD)	
N/A	- IEC 62353-compatible electrical insulation and continuity tester	
N/A	2-10 Nm torque wrench	
	10-50 Nm torque wrench	
	40-200 N.m torque wrench	
N/A	Set of Allen screwdrivers	
N/A	Set of Torx screwdrivers	
N/A	Set of open-end wrenches	
N/A	Set of flat-bladed screwdrivers	
N/A	Set of Philips screwdrivers	
N/A	Adjustment rod for Acrobat 2000 arm	
ARD659000011	Grease in can	
ARD659000016	Aerosol grease	
ARD368904555	VA - TUBE OF GREASE, 5 ML	

4.2 Periodic maintenance

4.2.1 Periodic replacement cycles

To ensure safety and performance, please follow the recommendations below.

For SA and SAT suspensions

Items	Frequency
All brakes	Every year
Suspension mounting screws (tighten the screws to the recommended tight- ening torque)	Every 6 years

Items	Frequency
Adapter mounting screws (tighten the screws to the recommended tight- ening torque)	Every 6 years
Acrobat 2000 or Ondaspace spring arm snap ring	Every 6 years

For SAX and SATX suspensions

Items	Frequency
All brakes	Every year
Suspension mounting screws (tighten the screws to the recommended tight- ening torque)	Every 10 years
Adapter mounting screws (tighten the screws to the recommended tight- ening torque)	Every 10 years
Valia spring arm snap ring	Every 10 years

5 Adjustments

5.1 Lubrication

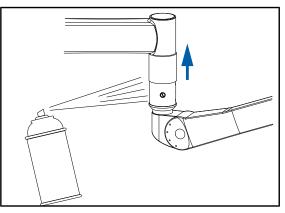


Fig. 1: Suspension lubrication

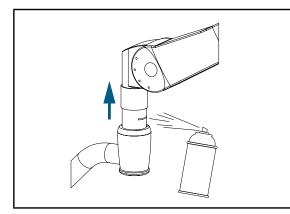


Fig. 2: Spring-arm lubrication

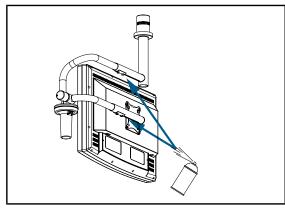


Fig. 3: Lubricating the XS-XD sliding tubes

Lubricating the suspension under the safety ring

- 1. Remove the mounting screw and lift the safety ring.
- 2. Spray lubricating grease at the location of the safety ring.
- 3. Lower the safety ring and refit the mounting screw.

Lubricating the spring arm under the safety ring

- 1. Remove the mounting screw and lift the safety ring.
- 2. Spray lubricating grease at the location of the safety ring.
- 3. Lower the safety ring and refit the mounting screw.

Lubricating the XS-XD sliding tubes

- 1. Remove the mounting screws and anchor plate.
- 2. Spray lubricating grease at the location of the anchor plate; slide the tubes in and out.
- 3. Refit the anchor plate and mounting screws.

5.2 Adjustment of Acrobat 2000 and Ondaspace spring arms

Adjusting the balance of the DF spring arms

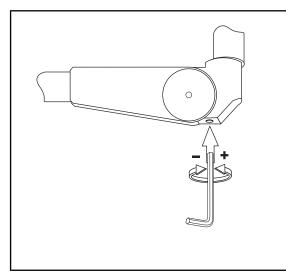
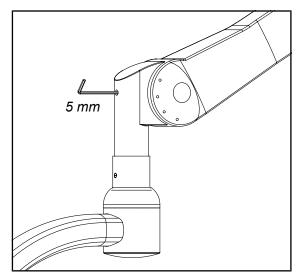


Fig. 4: Adjusting the balance



Adjusting the top stop on the DF spring arm

Fig. 5: Stop adjustments

- For the ONDASPACE range, unscrew the protective cap.
- Insert a 5-mm Allen key in the opening.
- Raise the spring arm higher than the horizontal position.
- If the lighthead goes down: unscrew (turn towards the +) to increase the force of the spring arm.
- If the lighthead goes up, screw in (turn towards -) to decrease the force of the spring arm.
- For the ONDASPACE range, screw in the protective cap.

- For the Acrobat 2000 range:
- Tighten to lower the stop.
- Loosen to raise the stop.

5.3 Adjusting the Valia spring arms

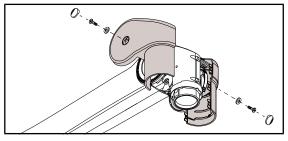


Fig. 6: Removing the front flanges

Fig. 7: Adjusting the top stop

- Remove the screw covers.
- Unscrew the two M4x10 screws and remove the two washers.
- Unhook the two flanges.
- Position horizontally to access the adjustment screw.
- Insert a 5-mm Allen key.
- Tighten to raise the stop.
- Loosen to lower the stop.

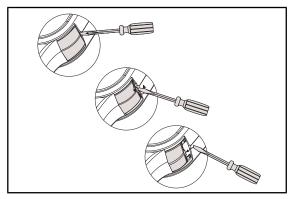


Fig. 8: Opening the tabs

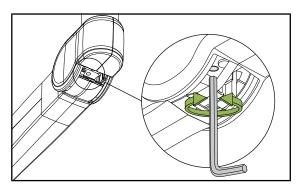


Fig. 9: Adjusting the tension

- Insert a flat head screwdriver into the cover notch and tab.
- Rotate to release the stop from the tab.
- Push the tab back.

- Position horizontally and push back the tab halfway to access the adjustment screw.
- Insert a 5-mm Allen key.
- Tighten to decrease the tension.
- Loosen to increase the tension.

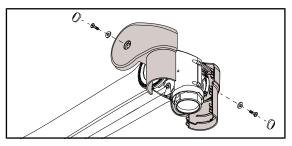


Fig. 10: Fitting the front flanges

- Clip on the two flanges.
- Fit the two washers with the two M4x10 screws; tighten until they make contact.
- Fit the screw covers.

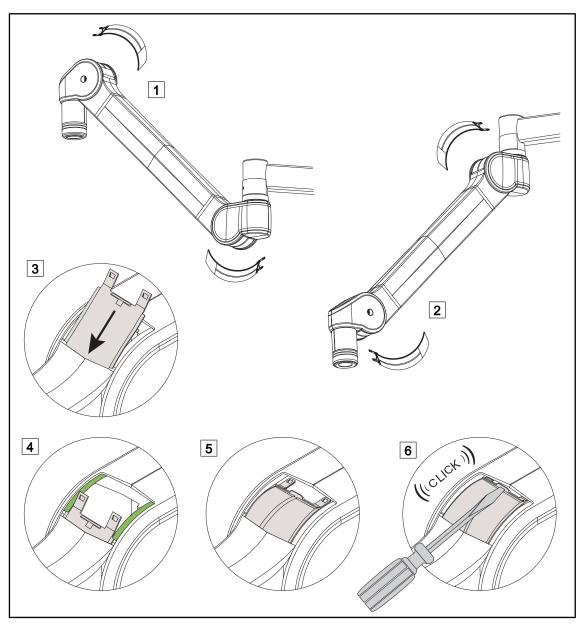


Fig. 11: Fitting the tabs

- Check that the matt inner surface and shiny outer surface of the tabs are correctly positioned to ensure correct mounting in the grooves.
- Position the spring arm in the high position 1 to install the first two tabs.
- Insert the tab in the lower grooves 3.

- Lower the tab into the lower grooves then insert the tab in the upper grooves 4.
- Raise the tab 5 back into its housing.
- Lock the tab by pushing it into its housing using a flat screwdriver, until it clicks 6.
- Position the spring arm in the low position 2, then proceed in the same way to install the last two tabs.
- Move the arm up and down to check that the tabs do not rub on the cables and slide without coming out of their grooves.

5.4 Adjusting the brakes



CAUTION!

Risk of equipment damage If adjustments are made incorrectly or not at all, the lighthead or installed equipment may drift.

Make all adjustments (balance, stop and brakes) during installation and then after all maintenance operations.

5.4.1 Adjusting the suspension brakes



NOTICE

It is normal for a newly installed brake to require readjustment after two to six months of use in order to compensate for wear.

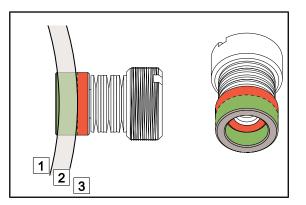


Fig. 12: Brake wear

- Break in 1.
- Use 2.
- Wear 3.

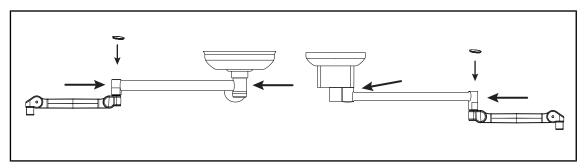


Fig. 13: Adjusting the suspension brakes

- Adjust the brake screws.
- Refit the sliding ring(s) with washer and mounting screw.
- Finalize the adjustment by fitting the caps.

5.4.2 Adjusting the XHS0 monitor mount tilt brake

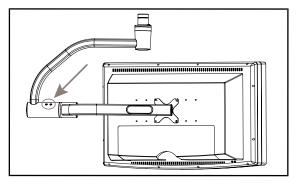


Fig. 14: XHS0 monitor mount

5.4.3 Adjusting the XS/XD monitor mount brakes

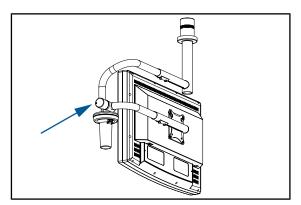


Fig. 15: XS/XD monitor mount

• Adjust the two brake screws by screwing in to increase the braking, or by unscrewing to reduce the braking.

- Adjust the brake screws (single (XS) or dual (XD) monitor mount) to adjust the rigidity of the rotation of the monitor on its mount.
- Tighten the screw using a 3-mm Allen key to make the mount more rigid, or loosen the screw for a more flexible mount.

Fig. 16: XS32 monitor mount

5.4.4 Adjusting the XS32 monitor mount tilt brakes

Adjust the two screws by screwing in to increase the braking, or by unscrewing to reduce the braking.

5.4.5 Adjusting the brakes on SC07-SC05 camera mount

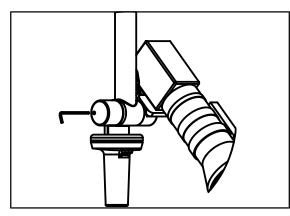


Fig. 17: SC07 camera mount

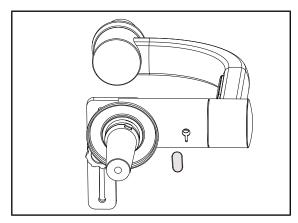


Fig. 18: SC05 brake adjustment

Using a 3-mm Allen key, tighten or loosen the screw on the horizontal rotary joint of the camera mount:

- Tighten screw to increase braking.
- Loosen screw to reduce braking.

- Remove the cap to uncover the brake screw.
- Tighten screw to increase braking.
- Loosen screw to reduce braking.
- Refit the cap over the brake screw.

6 Inspections

6.1 Mechanical inspections

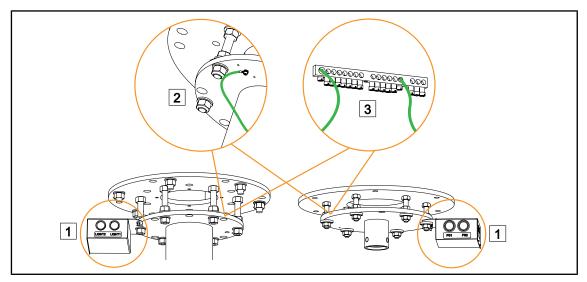


Fig. 19: Anchor point

- Check the tightening of the anchoring and connections on the terminals 2 3 and the connection boxes 1.
- Check the ground connections 2 or 3.

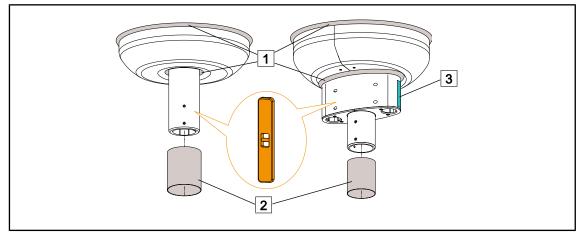


Fig. 20: Suspension tube and ceiling cover

- Check the rigidity of the suspension by shaking the assembly.
- Verify the verticality of the tube.
- SAT and SATX tube: Check the tightening of the screws of the half-plates on shafts 2 and 3.
- Check that the cover and the retention and upper seals 1 are secure.
- Check the resistance of the silicone sleeve 2 and, for the modified SAT tube, the screw cover labels 3 for shaft 2 and 3.

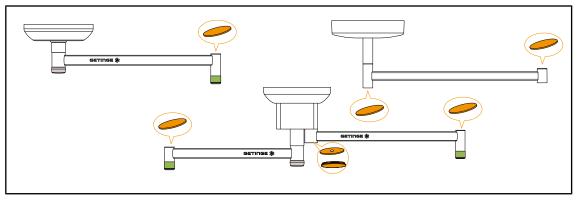
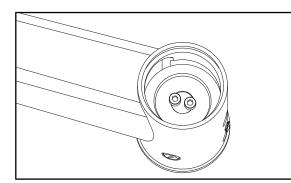


Fig. 21: Suspension arm

- Check the presence of the tube suspension's linking screws and the replacement periodicity. (Do not re-tighten these screws during maintenance as there is a risk of fracture. If screws appear loosened, replace them)
- Check that the adjustment of the brake screws has been performed.
- Check the presence of the safety rings with holding screw.
- Check the presence of the bumpers and caps.
- Check the presence of the discs inside the caps of shafts 2 and 3 SATX for MHSO35.



• Check that the XO cap is fastened securely.

Fig. 22: Checking the XO cap



WARNING! Risk of injury

The metal half-rings can be sharp.

The metal half-rings on the spring arm should be handled with care to avoid any risk of cuts.

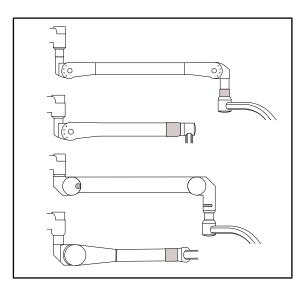


Fig. 23: Acrobat or Ondaspace spring arm

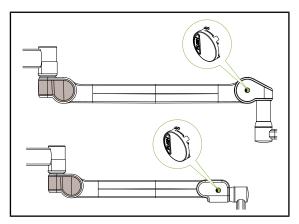


Fig. 24: Valia spring arm

- Check that the vertical stop is properly adjusted.
- Check the balance.
- AC2000: Check the presence of the snap ring and the replacement periodicity.
- AC2000: Check that the safety ring is in place with its mounting screw.
- ONDASPACE: Check the presence of the snap ring and the replacement periodicity.
- ONDASPACE: Check that the safety plate is in place with its two mounting screws.
- Check the correct installation of the covers and tightening of the screws.
- Check the condition, position and sliding of the tabs.
- Check that the vertical stop is properly adjusted.
- Check the balance.
- VALIA: Check the presence of the snap ring and the replacement periodicity.
- VALIA: Check the correct installation of the covers, flanges, and the tightening of the screws.
- VALIA: Check the presence of the flange covers and screw covers.
- VALIA: Check that the spring arm tabs are correctly positioned and that there is no friction noise on the cables.
- Check the condition, position and sliding of the tabs.

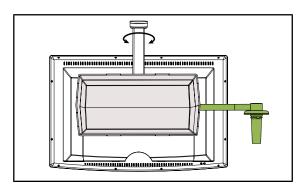


Fig. 25: Monitor mount

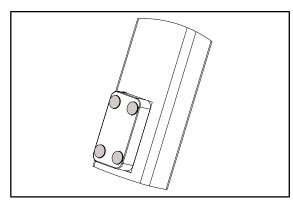


Fig. 26: MHS0 cable guide

- Check the position of the stops for the orientation angles.
- Check that the handle mount is firmly attached.
- Check that the VESA interface is firmly attached to the mount and monitor.
- Check that the Rear Box and its contents are securely fastened.
- Check that the caps are fully inserted.
- Check that the adjustment of the brake screws has been performed.
- If a cable guide solution is fitted, check that the clips are fastened securely.



WARNING! Risk of injury A wrong handling of XHD1 screen holder may result in a hand injury. Respect safety indications on the product.

•

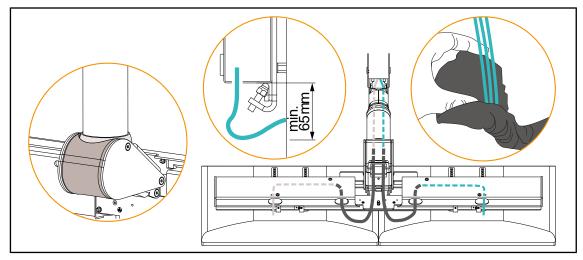


Fig. 27: XHD1 monitor mount

- XHD1: Check that the slip ring is lowered all the way.
- XHD1: Check that the cable protective sheath is installed properly and with the required 65mm minimum clearance.
- XHD1: Check that the grey cover is closed.
- XHD1: Check that the caps at each end of the rail are fully inserted.
- XHD1: Check the ground connections.

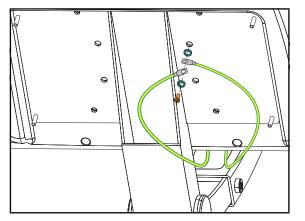
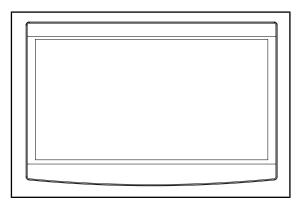


Fig. 28: SPC12 monitor mount



 Check that there are no cracks or scratches.

SPC12: Check the ground connections.

Fig. 29: Monitor

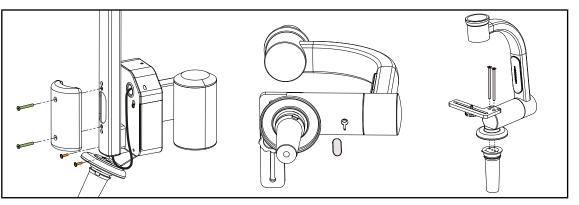


Fig. 30: Camera mount

- Check the position of the stops for the orientation angles.
- Check that the handle mount is firmly attached.
- Check that the adjustment of the brake screws has been performed.
- Check that the caps are fully inserted.
- FHS0: Check that the camera mount is firmly attached to the FHS0 mount.
- SC05/07: Check that the camera mount and Kodak screw are fastened securely.

6.2 Electrical safety tests



ΝΟΤΕ

Electrical safety measurements must be carried out using an IEC 62353-compatible electrical safety tester. The earth resistance should be less than or equal to $300 \text{ m}\Omega$.

FHS0/MHS0/MHD2 monitor mounts

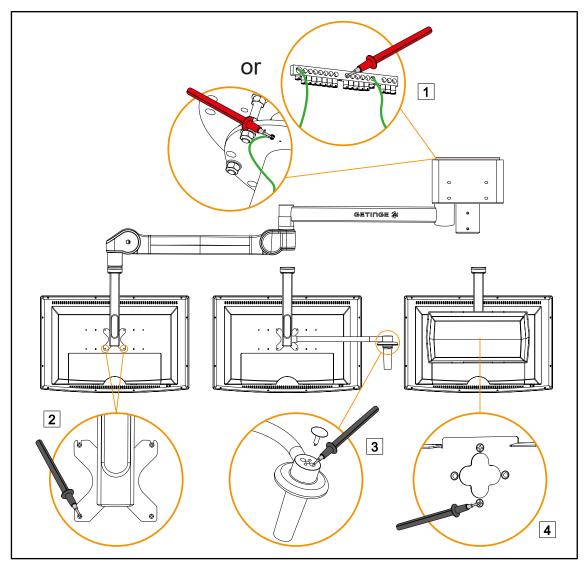


Fig. 31: FHS0/MHS0/MHD2 electrical safety test

- If the monitor mount does not include any accessories, the measurement should be made between the flange 1 and one of the monitor mounting screws 2.
- If the monitor mount includes a handle option, the measurement should be made between the flange 1 and one of the handle mount mounting screws 3. Once the measurement is made, push the cap in fully using a mallet.
- If the monitor mount includes a Rear Box option, the measurement should be made between the flange 1 and one of the case mounting screws 4, with case cover removed. Once the measurement is complete, replace the cover.

XHS0 monitor mount

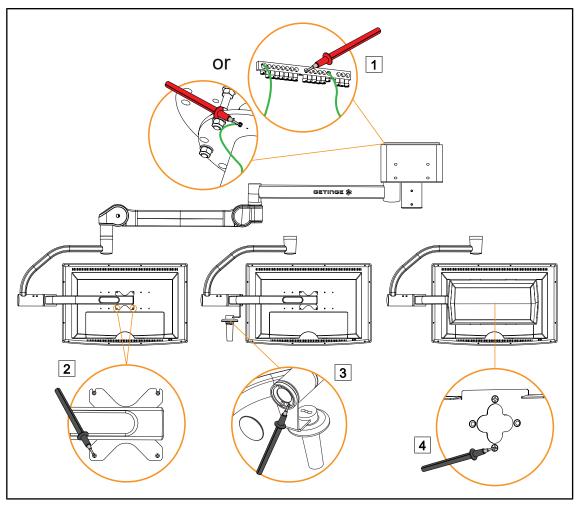


Fig. 32: XHS0 electrical safety test

- If the monitor mount does not include any accessories, the measurement should be made between the flange 1 and one of the monitor mounting screws 2.
- If the monitor mount includes a handle option, the measurement should be made between the flange 1 and one of the handle mount mounting screws 3. Once the measurement is complete, replace the cap.
- If the monitor mount includes a Rear Box option, the measurement should be made between the flange 1 and one of the case mounting screws 4, with case cover removed. Once the measurement is complete, replace the cover.

XHD1 monitor mount

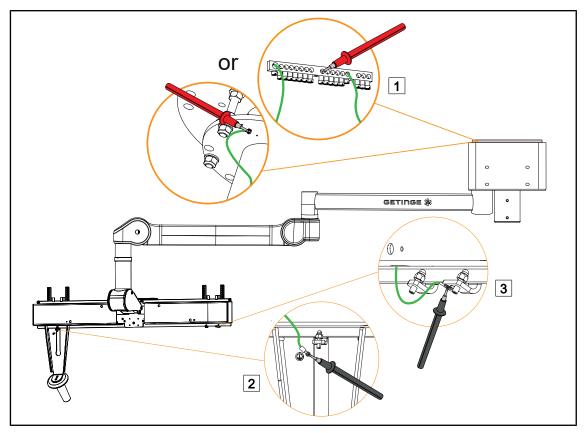


Fig. 33: XHD1 electrical safety test

- If the monitor mount does not include a handle option, the measurement should be made between the flange 1 and the earth wire connection on the VESA block 3.
- If the monitor mount includes a handle option, the measurement should be made between the flange 1 and the earth wire connection on the handle 2.

XS32 monitor mount

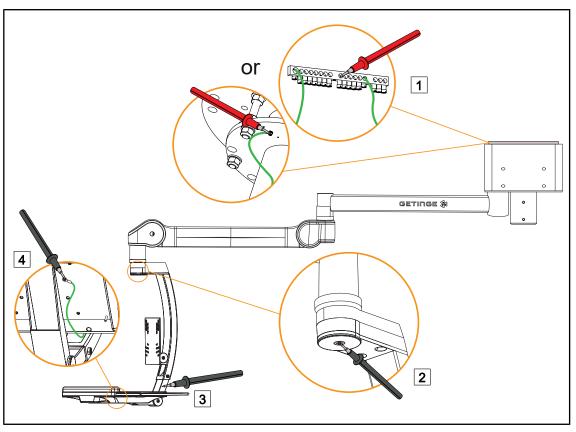


Fig. 34: XS32 electrical safety test

• The measurement should be made between the flange 1 and the earth wire connection on the mount 2.

XS-XD monitor mount

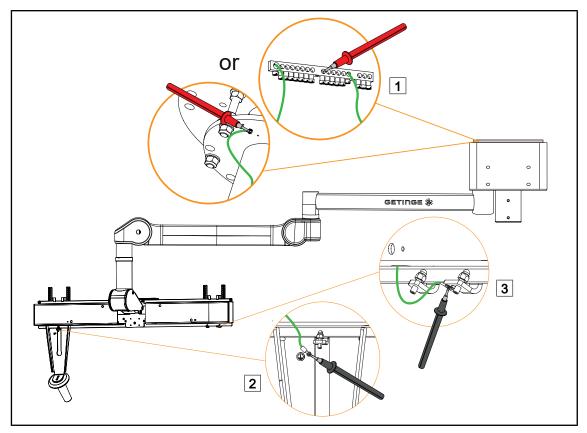


Fig. 35: XS-XD electrical safety test

The measurement should be made between the flange 1 and the masked paint on the VESA block 2.

SPC12 monitor mount

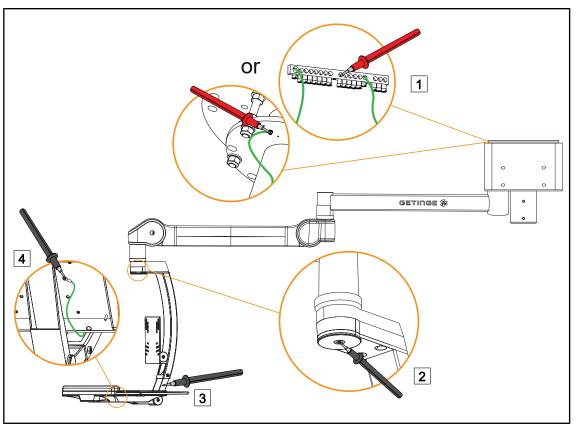


Fig. 36: SPC12 electrical safety test

• The measurement should be made between the flange 1 and cup mounting screw 2, then between the flange 1 and strips 3, and finally between the flange 1 and earth wire mounting screw on the tray 4.

Camera mounts

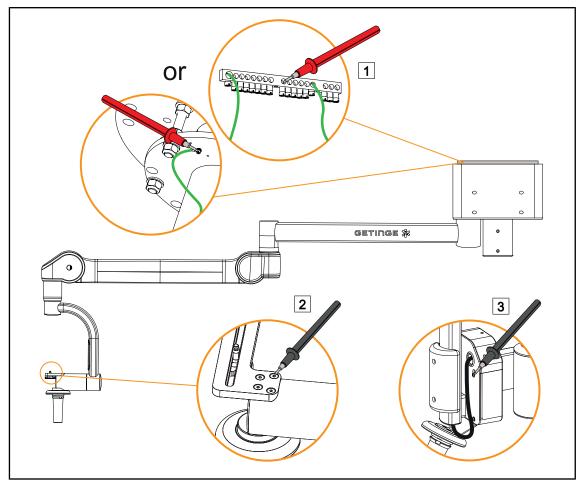


Fig. 37: Electrical safety test of the camera mounts

- For an SC05 camera mount, the measurement should be made between the flange 1 and the screws located on top of the camera mount 2.
- For a camera mount installed on an FHS0 monitor mount, the measurement should be made between the flange 1 and the monitor mount mounting screws 3.

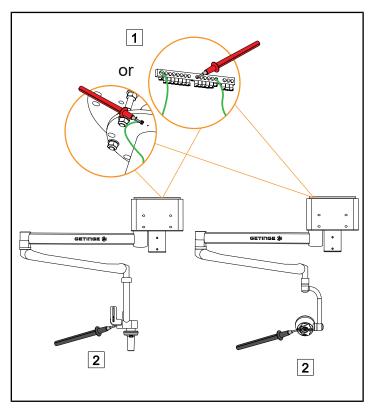


Fig. 38: Electrical safety test of the SC07 and SHD camera mounts

- For an SC07 camera mount, the measurement should be made between the flange 1 and the screws located on the side of the camera mount 2.
- For an SHD camera mount, the measurement should be made between the flange 1 and the monitor mount mounting screws 2.

6.3 Recording the inspection

SW Service Protocol Preventive maintenance



Maquet Equipment

1. Customer

Address	Contact Name	Telephone number	Order number

Installation date	Location (department, room number, etc.)	
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2. Product

Configuration P/N	Configuration S/N	Description	
Monitor mount 1 P/N	Monitor mount 1 S/N	Description	
Monitor mount 2 P/N	Monitor mount 2 S/N	Description	
Camera mount P/N	Camera mount S/N	Description	

The work time for all the service operations described in this documentation is estimated be 1 hour per lighthead/equipment.

3. Periodic replacements

To ensure safety and performance please follow the below recommendations.

TUB, TUB SAT ranges, SA arm, SAT arm and A2000 & ONDASPACE spring arms.

Items	Frequency	Replaced	Not replaced	N/A
All brake screws	Every year			
Suspension mounting screws (Tighten the screws to the recommended tightening torque)	Every 6 years			
Adapter mounting screws (Tighten the screws to the recommended tightening torque)	Every 6 years			
Spring-arm snap rings	Every 6 years			

Refer to the repair manual ans appendices for detailed instructions.

TUBX, TUBX SATX ranges, SAX arm, SATX arm, and VALIA MD spring arms

Items	Frequency	Replaced	Not replaced	N/A
All brake screws	Every year			
Suspension mounting screws (Tighten the screws to the recommended tightening torque)	Every 10 years			
Adapter mounting screws (Tighten the screws to the recommended tightening torque)	Every 10 years			
Spring-arm snap rings	Every 10 years			

4. Other components replaced or to be replaced

Description	Qty	Replaced	To be replaced
	Description	Description Qty	Description Qty Replaced Image: Constraint of the second seco

5. Calibrated tooling

Description	Registration number	Validity date (DD/MMM/YYYY)

6. Lubrication

	ΟΚ	NOK	N/A
When needed only, lubrication of the monitor mount pin and arm pin with the MAQUET-recommended grease, P/N ARD659000011			
Lubrication of the spring arm and suspension slip rings with the grease recommended by MAQUET, P/N ARD659000016			
Lubrication of the spring arm sliding parts with the grease recommended by MAQUET, P/N ARD659000016			

Anchor point		
Check the tightening of mountings and connectors, terminals and connection boxes.		
Check the ground connections.		
Suspension tube and ceiling cover		
Check the rigidity of the suspension by shaking the assembly.		
Verify the verticality of the tube.		
SAT and SATX tube: Check the tightening of the screws of the half-plates on shafts 2 and 3.		
Check that the cover and retaining and upper seals are secure.		
Check that the silicone sleeve is secure and for the SAT tube the presence of the screw cover labels for shaft 2 and 3.		
Suspension arm		
Check that the suspension linking screws are present on the tube and the periodicity of replacement. (Do not re-tighten these screws during maintenance as there is a risk of fracture. If screws appear loosened, replace them)		
Check that the adjustment of the brake screws has been performed.		
Check the presence of the discs inside the caps of shafts 2 and 3 SATX for MHS035.		
Check the presence of the safety rings with holding screw.		
Check that the XO cap, if present, is fastened securely.		
Check the presence of the bumpers and caps.		
Spring arm		
Check that the vertical stop is properly adjusted.		
Check the balance.		
AC2000: Check that the safety ring is in place with its mounting screw.		
ONDASPACE DF: Check that the safety plate is in place with its two mounting screws.		
Check the correct installation of the covers and tightening of the screws.		
VALIA: Check the correct installation of the covers, flanges, and the tightening of the screws.		
VALIA: Check the presence of the flange covers and screw covers.		
VALIA: Check that the spring arm tabs are correctly positioned and that there is no friction noise on the cables.		
Check the condition, position and sliding of the tabs.		

Monitor mount		
Check the position of the stops for the orientation angles.		
Check the handle mount.		
Check that the VESA interface is firmly attached to the mount and monitor.		
MHS0: If a cable guide solution is fitted, check that the four white clips are pushed in securely.		
XHD1: Check that the slip ring is lowered all the way.		
XHD1: Check that the cable protective sheath is installed properly and with the required 65-mm minimum clearance.		
XHD1: Check that the grey cover is closed.		
XHD1: Check that the caps at each end of the rail are fully inserted.		
XHD1: Check the ground connections.		
Check that the Rear Box and its contents are securely fastened.		
Check that the caps are fully inserted.		
Check that the adjustment of the brake screws has been performed.		
SPC12: Check the ground connections.		
Monitor		
Check that there are no cracks or scratches.		
Camera mount		
Check the position of the stops for the orientation angles.		
Check the handle mount.		
FHS0: Check that the camera mount is firmly attached to the FHS0 mount.		
Check that the adjustment of the brake screws has been performed.		
SC05/07: Check that the camera mount and Kodak screw are fastened securely.		
Check that the caps are fully inserted.		
Configuration		
Check the legibility of all identifications and safety markings.		
Check the manoeuvrability of the configuration.		
Check that there is no corrosion or chipped paint.		

8. Electrical assessment

	ΟΚ	NOK	N/A
Check the ground connections.			

9. Electrical Safety Tests (IEC 62353)

	Limit (mΩ)	Measured values (mΩ)	ΟΚ	NOK	N/A
Protective earth resistance of Monitor mount 1	≤ 300 mΩ				
Protective earth resistance of Monitor mount 2	≤ 300 mΩ				
Protective earth resistance of camera mount	≤ 300 mΩ				

If available, test records should be attached to this report for possible future use.

10. Cleaning

Degrease and clean the external parts of the configuration

11. Final assessment

Device fully operational.	
Free from direct risk but deficiencies detected. Possibility of short-term correction.	
Device shall not be used until all deficiencies are corrected.	
Device no longer safe. Taking out of service is recommended.	

Comments

12. Performed by

Name / Title	Date			Signature
	DD	MMM	үүүү	

13. Facility (Required)

Name / Title	Date			Signature
	DD	MMM	YYYY	

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