

This checklist is attached to both, DX-D 100 and DX-D 100 Wireless Service Manual.

DX-D 100/100 Wireless Serial Number:	
DX-D 100/100 Wireless installation date:	
Date of maintenance:	
Maintenance interval:	months or other interval:
Service Engineer name:	

Purpose of this document:

This document provides the reference guide and checklist for the different Preventive Maintenance (PMV) tasks for the complete DX-D 100 or DX-D 100 Wireless System.



IMPORTANT:

Strictly observe the safety advices in the referenced documents.

Perform the PMV tasks as described in the referenced documents. This checklist does only contain a short description of the tasks.

Defect or worn out parts or misaligned components, which are found during the PMV are *not* included in the below stipulated labor time. Parts and labor cost for such replacements or alignments (labor & parts) need to be charged outside of a PMV.

Required time



REQUIRED TIME:

- 12-month Maintenance: Approximately 4h (additionally 30 min. Radiation Leakage check).
- Additional activities after 3 years: Approximately 1h additionally (depending on local requirements)
- Additional activities after 5 years: Two people, 6h

Components and Maintenance interval

#	Component	Maintenance Interval *	**
1.	NX Hardware	12 months	<input type="checkbox"/>
2.	Mobile X-Ray Unit	12 months	<input type="checkbox"/>
3.	Collimator	12 months	<input type="checkbox"/>
4.	IEC 62353 Safety Test as <i>locally required</i>	36 months (3 years)	<input type="checkbox"/>
5.	Mobile X-Ray Unit	5 years: Replacement of Steel Wire	<input type="checkbox"/>
	Detector	Preventive Maintenance by service is not required	-
	Option: DR FLFS mobile (only for DX-D 100 Wireless)		
6.	Completion of Preventive Maintenance	After each PMV	<input type="checkbox"/>

* Maybe shorter in case of heavy workload.

** Select the maintenance task you perform during this maintenance intervention. The different maintenance intervals are color-coded.

Required tools

- Standard tool kit
- Vacuum cleaner with a brush attachment
- Digital Multimeter.
- Non-invasive kVp Meter.
- Digital mAs Meter
- Calculator
- USB keyboard and mouse
- Only if Radiation Leakage checks are locally required: Radiation Meter
- Tools for the IEC 62353 test. Refer to Document ID [42283613](#).
- Tools for Column Steel Wire replacement: As described in the applicable replacement description, Document ID [41600560](#).

Required cleaning material

- Rags and cleaning tissues
- Isopropylalcohol CM+9999992540

Required lubricants and fluids

- ISOFLEX TOPAS NB 52 Multi-purpose grease CM+9999992470
- Silicone insulating paste HV cables (X-Ray Tube side) CM+6074010
- Silicone oil HV cables (Generator side) SK+01787035

Required spare parts

Note that 5 dischargers (iron wire with ball) are included in the spare part. For each PMV one discharger is required.

- Discharger of Arrestor SC+19619-02, for version with reinforced frame for Telescopic Column
- Discharger of Arrestor SC+27893-01, for version with frames for Standard Column and with non-reinforced frame for Telescopic Column

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Maintenance Checklist

DX-D 100/100 Wireless

12 months

1 NX Hardware

1 NX Hardware

Maintenance	after <input type="checkbox"/> 12 months <input type="checkbox"/> other
Reference	NX/MUSICA Acquisition Workstation - Service Manual, ID 74737949 Chapter: Maintenance

Topic	Task	N.A.	OK / Done	Comment *
NX Workstation Hardware	See referenced document: Perform the described maintenance checks and fill out the provided checklist. Attach the completed NX checklist to this Checklist.	<input type="checkbox"/>	<input type="checkbox"/>	#

Comments for NX

#	Description
1	

* If applicable, fill in a comment number and add the comment description in the comment table.

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Maintenance Checklist

12 months

DX-D 100/100 Wireless

2 Mobile X-Ray Unit

2 Mobile X-Ray Unit	
Maintenance	<input type="checkbox"/> 12 months <input type="checkbox"/> other
Column Type	Standard Column <input type="checkbox"/> Telescopic Column <input type="checkbox"/>
Reference	DX-D 100 / DX-D 100 Wireless - Mobile X-Ray Unit - Service Manual, ID 41600560 Chapter 5 Maintenance

Topic	Task	N.A.	OK / Done	Comment *
Preparations	<ul style="list-style-type: none"> Remove external covers. Do not re-install the external covers until the maintenance process has been completed. The batteries must be fully charged before maintenance. 		<input type="checkbox"/>	#
Cleaning Chapter 5 Maintenance, 2.1 General Cleaning				
External Surfaces Cleaning	As described in the referenced document.	<input type="checkbox"/>	<input type="checkbox"/>	#
Internal Cleaning	As described in the referenced document.	<input type="checkbox"/>	<input type="checkbox"/>	#
Cables Chapter 5 Maintenance, 2.2 Cable Checks				
Electrical Connectors, Wires and Ground lead interconnections	As described in the referenced document.	<input type="checkbox"/>	<input type="checkbox"/>	#
Rewind Mechanism of the Power Line Cable and Detector Cable	As described in the referenced document.	<input type="checkbox"/>	<input type="checkbox"/>	#
Discharger of Arrestor (iron wire with ball)	Regardless of the condition, replace the Discharger of Arrestor (only iron wire with ball) during every periodic maintenance. Once it is replaced, ensure that the ball makes contact with the floor.	<input type="checkbox"/>	<input type="checkbox"/>	#
HV Transformer Chapter 5 Maintenance, 2.3 HV Transformer Condition				
HV Transformer Condition	As described in the referenced document.	<input type="checkbox"/>	<input type="checkbox"/>	#
X-ray Tube Chapter 5 Maintenance, 2.4 X-Ray Tube Condition				
X-ray Tube Condition	As described in the referenced document.	<input type="checkbox"/>	<input type="checkbox"/>	#
Batteries Chapter 5 Maintenance, 2.5 Procedures related with the Batteries and Battery Chargers and Chapter 4 Troubleshooting				
Battery and Charger conditions	As described in the referenced document.	<input type="checkbox"/>	<input type="checkbox"/>	#
Control Console Chapter 5 Maintenance, 2.6 Control Console Condition				
Control Console Condition	As described in the referenced document.	<input type="checkbox"/>	<input type="checkbox"/>	#
Radiographic Parameters Chapter 5 Maintenance, 2.7 Radiographic Parameters				
Test for kV Loop	As described in the referenced document.	<input type="checkbox"/>	<input type="checkbox"/>	#
Test for Digital mA Loop Open	As described in the referenced document.	<input type="checkbox"/>	<input type="checkbox"/>	#

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Maintenance Checklist

DX-D 100/100 Wireless

12 months

2 Mobile X-Ray Unit

Topic	Task	N.A.	OK / Done	Comment *
Mechanical checks		Chapter 5 Maintenance, 2.8 Mechanical checks		
Column/Telescopic Column	As described in the referenced document.	<input type="checkbox"/>	<input type="checkbox"/>	#
Telescopic Arm	As described in the referenced document.	<input type="checkbox"/>	<input type="checkbox"/>	#
Tube-Collimator support assemblies	As described in topic 3 Collimator within this document.	<input type="checkbox"/>	<input type="checkbox"/>	#
Column Steel Cables	As described in the referenced document. (Change them every 5 years.)	<input type="checkbox"/>	<input type="checkbox"/>	#
Motion Assemblies	As described in the referenced document.	<input type="checkbox"/>	<input type="checkbox"/>	#
		Chapter 5 Maintenance, 3 Other maintenance procedures		
Leakage Current and Insulation Resistance Test	As described in topic 4 IEC 62353 Safety test within this document.	<input type="checkbox"/>	<input type="checkbox"/>	#
Radiation Leakage	The check is not required during regular maintenance. However local Authorities may be requesting the check of radiation leakage. But this check can also be performed by the local physicist during annual testing. If locally required, perform the check as described in the referenced document.	<input type="checkbox"/>	<input type="checkbox"/>	#

Comments for Mobile X-Ray Unit

#	Description
1	
2	
3	
4	
5	
6	
7	

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Maintenance Checklist

DX-D 100/100 Wireless

12 months

3 Collimator

3 Collimator				
Maintenance	after <input type="checkbox"/> 12 months <input type="checkbox"/> other			
Reference	Collimator Ralco R221/A - Service Manual - DX-D 100 / DX-D 100 Wireless, ID 43902618 , Chapter: Maintenance			

Topic	Task (short instruction – for the detailed description refer to the referenced document)	N.A.	OK / Done	Comment *
Cleaning				
Collimator Housing	Observe description in section Cleaning Recommendations.	<input type="checkbox"/>	<input type="checkbox"/>	#
Mounting points				
Fixation	Check if screws and tabs that secure the collimator to the flange/tube adapter are correctly tightened. Observe the tightening force mentioned in the referenced document.	<input type="checkbox"/>	<input type="checkbox"/>	#

Comments for Collimator

#	Description
1	
2	



IMPORTANT:

After finishing the 12-month Maintenance, complete it as described in topic 6 Completion of the Preventive Maintenance.

* If applicable, fill in a comment number and add the comment description in the comment table.

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Maintenance Checklist

3 years

DX-D 100/100 Wireless

4 IEC 62353 Safety Test

4 IEC 62353 Safety Test (as required)

Maintenance after ☐ 36 months (3 years) ☐ other

Reference DX-D 100 / DX-D 100 Wireless - Electrical Test according IEC 62353, ID [42283613](#)

Topic	Task	N.A.	OK / Done	Comment *
Electrical Tests	Referenced document: Perform the described tasks and fill out the form. Attach the completed form to this Checklist.	<input type="checkbox"/>	<input type="checkbox"/>	#

Comments for Safety Test

#	Description
1	



IMPORTANT:

After finishing the 3-years Maintenance, complete it as described in topic 6 Completion of the Preventive Maintenance.

* If applicable, fill in a comment number and add the comment description in the comment table.

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Maintenance Checklist

5 years

DX-D 100/100 Wireless

5 Replacements at Mobile X-Ray Unit

5 Replacements at Mobile X-Ray Unit		
Maintenance	after <input type="checkbox"/> 5 years	<input type="checkbox"/> other
Column Type	Standard Column <input type="checkbox"/>	Telescopic Column <input type="checkbox"/>
Reference	DX-D 100 / DX-D 100 Wireless - Mobile X-Ray Unit - Service Manual, ID 41600560 Chapter 4 Troubleshooting	

Topic	Task	N.A.	OK / Done	Comment *
Column				
Preparations	Two people are required for this task. Organize a counterweight of equal weight of the Tube-Collimator Assembly. Refer to chapter 4 Troubleshooting, section 3 Column and Arm	<input type="checkbox"/>	<input type="checkbox"/>	#
Steel Wire	Change steel wire. Refer to chapter 4 Troubleshooting, section 3 Column and Arm	<input type="checkbox"/>	<input type="checkbox"/>	#

Comments for Replacements

#	Description
1	
2	



IMPORTANT:

After finishing the 5-years Maintenance, complete it as described in topic 6 Completion of the Preventive Maintenance.

* If applicable, fill in a comment number and add the comment description in the comment table.

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Maintenance Checklist

DX-D 100/100 Wireless

After each Maintenance

6 Completion of the Preventive Maintenance

6 Completion of the Preventive Maintenance				
Topic	Task	N.A.	OK / Done	
Results	Explain results to customer.	<input type="checkbox"/>	<input type="checkbox"/>	#
Checklist	<ul style="list-style-type: none">Archive the maintenance work according to your local regulations. For example attach the completed checklist to ASSM PMV Workorder.Hand out this checklist to the customer as needed.		<input type="checkbox"/>	#

Comments for Completion of Preventive Maintenance

#	Description
1	
2	

* If applicable, fill in a comment number and add the comment description in the comment table.

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