

## Service Bulletin

### Kit with additional AL filters for Toshiba tubes is available

Task		
Timing	Category	Scope
Next service as agreed with customer	<input type="radio"/> Apply at all sites	PowerHelp complaint / HQ issue: PR1305100003
	<input type="radio"/> Apply at affected sites as listed below	
	<input checked="" type="radio"/> Optional to improve functionality of product	

### Task Tracking

After completion of your task the following entry in your Service Report is required:

DD+DIS107.14E

\*

\* Insert the document number into the field "Comment" (SMS form).

Purpose of this document:

- This document contains all necessary information about the new filtration kit that has been introduced for use with aluminum filters for Toshiba tubes.
- It lists the components of the new kit.
- It describes the installation of an aluminum filter.

The signatures on the approval page indicate the solutions described in this Service Bulletin have been reviewed and are NOT reportable because no actions are taken to reduce a "Risk to Health" according to our risk assessment process.

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## 1 Introduction/purpose

**Symptom** It was requested (by a Physicist testing a machine) to add 0.5 mm of aluminum to increase half value layer reading.  
*PR13051000*  
*03*

**Cause** Without the added filtration, the measurements were ok, but on the borderline. Due to tolerances, the tests could fail.

**Solution** A kit, containing additional aluminum filters is available:  
ADDITIONAL AL FILTRATION KIT                      order number: SC+A520453-01  
Each kit contains:

- two filters of 1 mm
- one filter of 0.5 mm



**NOTE:**

Order additional filters only on request.

## 2 Prerequisites



**SPARE PARTS:**

If requested order the following:

- AL FILTRATION KIT (1MM AND 0.5MM)                      SC+A520453-01



**REFERENCED DOCUMENTS:**

- DX-D 100 / DX-D 100 Wireless - Mobile X-Ray Unit - Service Manual, Document ID 41600560  
available from the Agfa HealthCare Library:  
**Direct Radiography > DX-D 100 or DX-D 100 Wireless > DX-D 100 Generic or DX-D 100 Wireless Generic > Service Manual**



**TOOLS:**

- Standard tool kit
- Only if a collimator adjustment is required:  
Collimator Test Tool (Model RMI 161B9), and Light Meter (Standard).



**IMPORTANT:**

Two people are necessary to dismount/reinstall the collimator.

### 3 Instructions

**REQUIRED TIME:**

30 minutes for installation

30 minutes for verification

The additional filter is placed between the tube and the collimator, at the window of the X-Ray tube.

There is a gap between the glass of the tube and the collimator of about 1.5 mm.

**NOTE:**

For the collimator dismounting/reinstallation follow the instructions “Collimator Replacement” in section “Troubleshooting” in DX-D 100 / DX-D 100 Wireless - Mobile X-Ray Unit - Service Manual (refer to “Referenced Documents” in this document).

- (1) Dismount the collimator.
- (2) Place the filter on the window of the X-Ray tube.
- (3) Reinstall the collimator.

### 4 Verification

- (1) Check X-ray field.
- (2) Check light field alignment.
- (3) If not matching, perform the collimator adjustment as described in DX-D 100 / DX-D 100 Wireless - Mobile X-Ray Unit - Service Manual.

### 5 Keywords

Filtration, half-value

### 6 Version history

Version	Change	Date
1.0	Initial version	08-2014



## Details as of PDF Creation Date

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### Signatures:

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2. Paul Merckx (amdag) on 2014-08-22 10:28 AM CET
3. Bart Biesemans (amajm) on 2014-08-21 11:31 AM CET
4. Dimitri Hofman (amfph) on 2014-08-20 01:55 PM CET
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