

Service Information Bulletin

This Bulletin is for information only.

Revised Information: Introduction of new Batteries providing Generator Power for DX-D 100 / DX-D 100 Wireless

Task

Timing		Category
Next service	<input type="radio"/>	Apply at all sites
	<input checked="" type="radio"/>	Apply at affected sites as listed below
	<input 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+DIS013.13E
DD+DIS012.13E

*

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

Purpose of this document:

- This document announces the introduction of new generator power batteries for the DX-D 100 / DX-D 100 Wireless solution and the required battery tray upgrade kits.
- It contains important information about the connection of the grounding wires of these battery trays.

Affected serial number(s) / batch:



NOTE:

This service bulletin applies for both DX-D 100 solutions:

DX-D 100

DX-D 100 Wireless

The earlier Service Bulletin No. 20 - DD+DIS012.13E, 'Introduction of new Batteries for DX-D 100' is not applicable anymore as the present document contains the required information for both solutions.

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Release date: 05-2013

DX-D 100 Wireless / DX-D 100

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1 Introduction/Purpose

Symptom Individual batteries used in the DX-D 100 / DX-D 100 Wireless solutions can not be installed.

Cause Mechanical modifications of the batteries

Solution Introduction of new battery boxes which include the required number of batteries and all the necessary mechanical and electrical parts.



NOTE:

Only the battery type that supplies power for the generator is affected. The batteries for the drive motor stay unchanged.

1.1 Problem Description

There have been some mechanical changes by the battery manufacturer. The new batteries are 3 mm taller and the connector pins have been turned by 90 degrees, see next figures.

After these changes, batteries in the DX-D 100 / DX-D 100 Wireless are not compatible with the current terminal connections, boxes and mechanical fixations.

As a result, batteries with the current design can not be replaced individually with new batteries anymore.



Figure 1

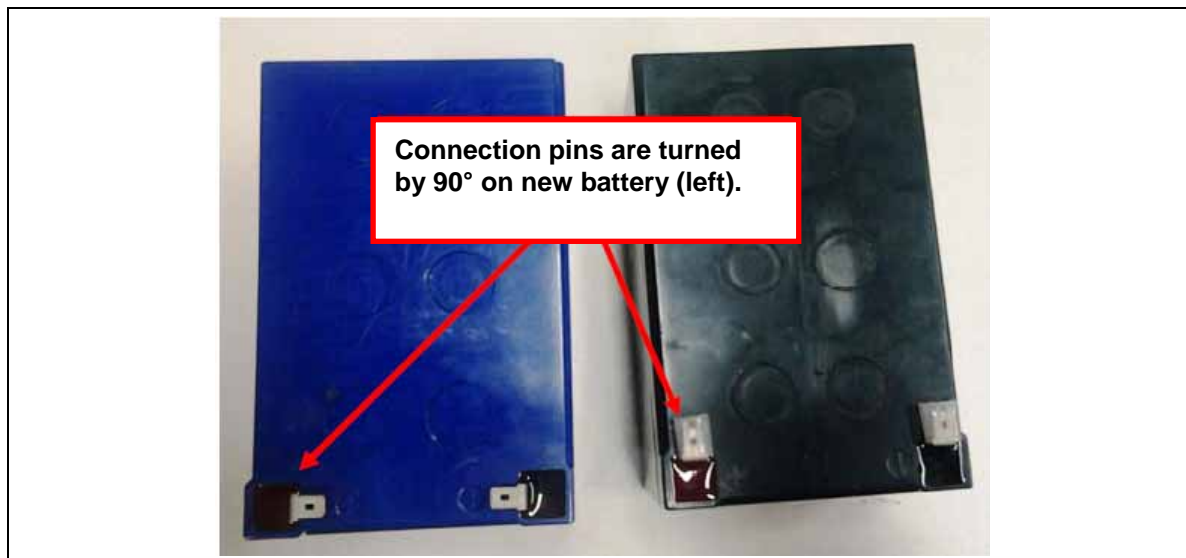


Figure 2

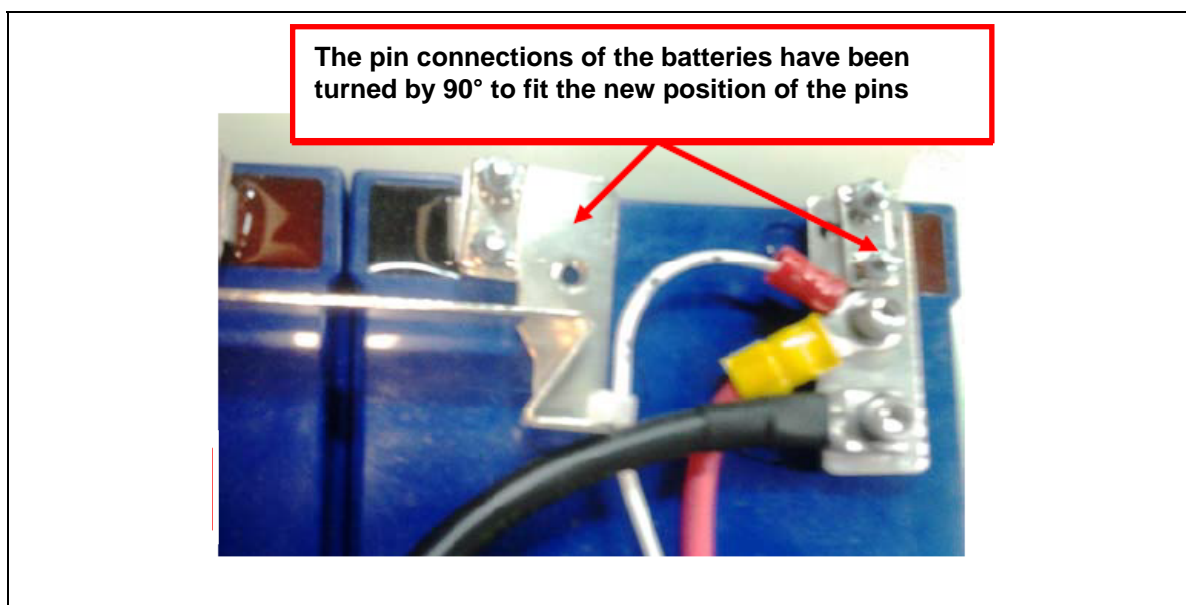


Figure 3

2 Prerequisites



SPARE PARTS:

Required parts can be ordered via the following spare part numbers:

- SC+A521048-01 Complete box with 6 x 15Ah batteries, fully compatible with the current box. Contains tray and 6 batteries.

Overall, the generator battery pack consists of 5 of these boxes.

- SC+A521051-01 New individual 15Ah battery, only compatible with new mechanical parts.
- SC+A521050-01 Tray upgrade kit, consisting of new mechanical parts without batteries, cables, diodes, fuses, and fuse holder. (see figure 4).
- Individual batteries can also be ordered also from local suppliers: Battery Manufacturer CVS, Type EVH12150.

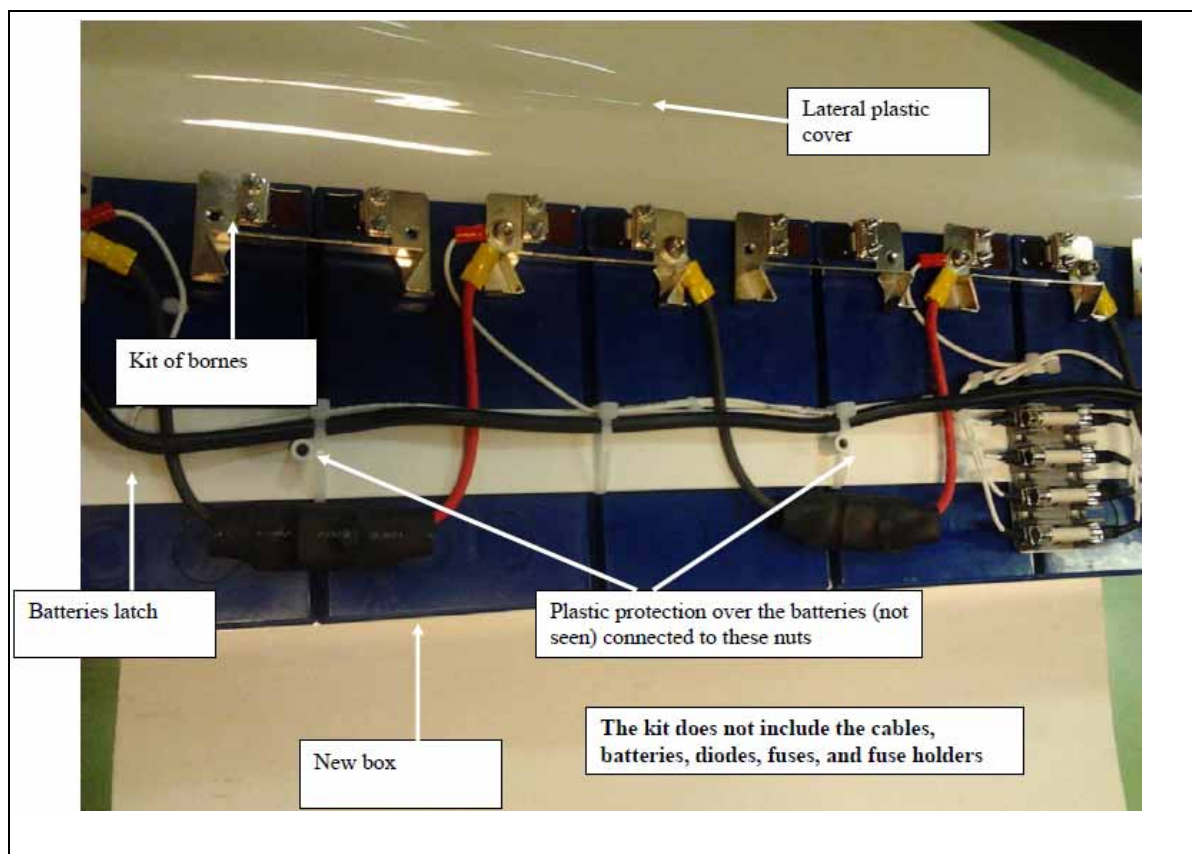


Figure 4

**REFERENCED DOCUMENTS:**

- DX-D 100 / DX-D 100 Wireless - X-Ray Mobile – Troubleshooting:
Direct Radiography → DR Equipment → DX-D 100 / DX-D 100 Wireless → Service Manual
- CSB VRLA Battery Safety Instructions
Follow this link [CSB VRLA Battery Safety Instructions](#)
or click on the embedded pdf file below:



CSB VRLA Battery
Safety Instructions

3 Instructions

There are several options if a battery change is necessary:

- Order complete new box (tray and six batteries). This option is possible for current DX-D 100 / DX-D 100 Wireless modalities equipped with the old batteries and also for DX-D solutions equipped with the new batteries.
- Order new batteries as individual parts for exchanging one or more batteries in DX-D 100 / DX-D 100 Wireless solutions which are equipped with new mechanical parts (tray).
- Order batteries from local supplier.
- Order upgrade kit that only contains the new mechanical parts to make existing DX-D 100 / DX-D 100 Wireless solutions compatible with the new batteries.

**NOTE:**

Trays with the current design can be replaced by new ones ("plug and play").

**WARNING:**

High short-circuit current rates are present because of the large number of batteries involved.

To prevent any danger, it is vital to follow the safety instructions in the CSB VRLA Battery Safety Instructions in detail:

Follow the link mentioned in section 2, 'Referenced Documents' in this document to download the Safety Instructions.

If online operation isn't possible, the document can also be opened by clicking on the embedded document also provided there.

3.1.1 Installation Instructions

Refer to the battery exchange procedure as described in the in the 'Replacing Faulty Batteries' section in the DX-D 100 Wireless- X-Ray Mobile – Troubleshooting document. See section 2, 'Referenced Documents' in this document.

**IMPORTANT:**

Strictly follow the battery exchange procedure referenced above!

**WARNING:**

Complete trays SC+A521048-01 come already fully wired including a ground wire which is **only** required for **tray 3**. Do NOT connect the ground wires of any other battery tray!

Remove the ground wire from trays 1, 2, 4, and 5 completely by removing the nut on the borne.

For clarification, refer to figures 5 and 6 below. The wiring diagram in figure 6 shows how tray 3 is connected to the ground.

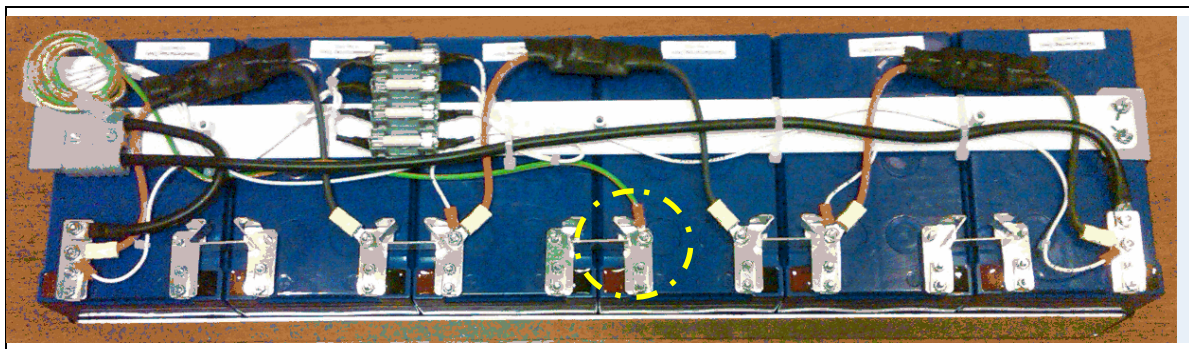


Figure 5

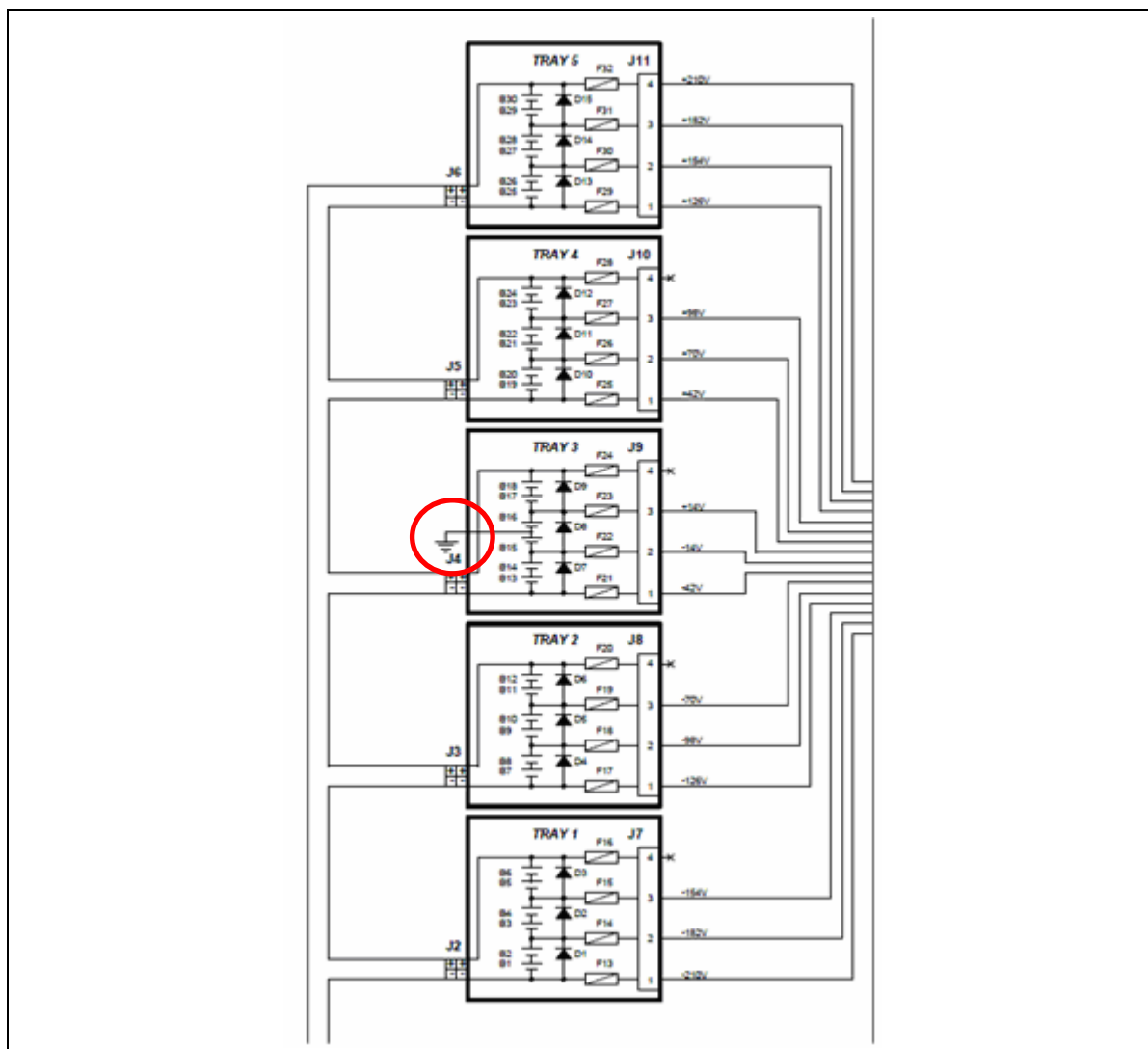


Figure 6

3.2 Labelling

Current trays:

The current trays for the batteries have labels numbered from 1 to 6. The connection points of the batteries are documented on these labels.

New trays:

No labels are available ex factory. For an overview of the exact connection points of the **new** trays, please refer to the schematics on the Agfa HealthCare Library:

Direct Radiography → DR Equipment → DX-D 100 Wireless → Service Manual → DX-D 100 Wireless- X-Ray Mobile - Schematics (page 8 / 64)



IMPORTANT:

It is strongly recommended to mark the new trays with the correct connection points. Do this by either

- using printed labels with the correct connection points (see Figure 7) or
- writing the correct connection points onto each battery tray with a waterproof marker.

This will help to find the correct measuring points if troubleshooting is required.



Figure 7

4 Verification

N. a.

5 Keywords

Batteries; battery kit; battery box; 15Ah battery; battery tray; grounding wires; generator; motor

6 Version history

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1.0	Initial Version	03-2013
1.1	Republishing due to the following corrections: Information about distribution of the number batteries / trays adapted. Warning about connection of grounding wires added.	05-2013



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