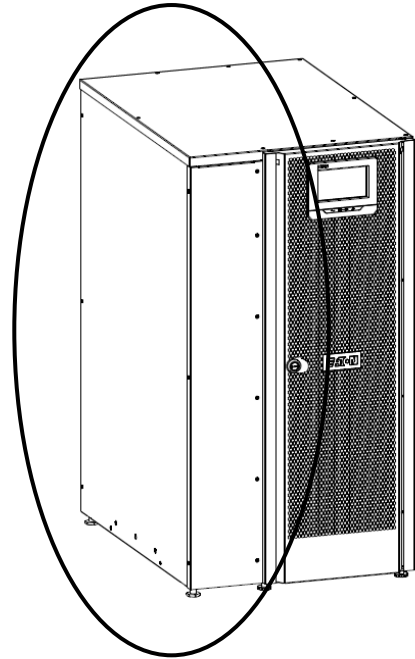


## 91PS/93PS 8-10 kW Battery Sidecar Installation Instruction

Manufacturer address:  
 Eaton Power Quality Oy  
 Koskelontie 13  
 FI-02920 ESPOO FINLAND  
 Tel. +358 9 452 661  
 e-mail: [ContactTechnical@Eaton.com](mailto:ContactTechnical@Eaton.com)



### **WARNING**



For stationary installation only! Remove battery trays from the sidecar cabinet before levelling feet are lifted in case the UPS with sidecar will be re-located.

### **DANGER**



Only qualified and Eaton authorized personnel are allowed to install and service the battery sidecar.

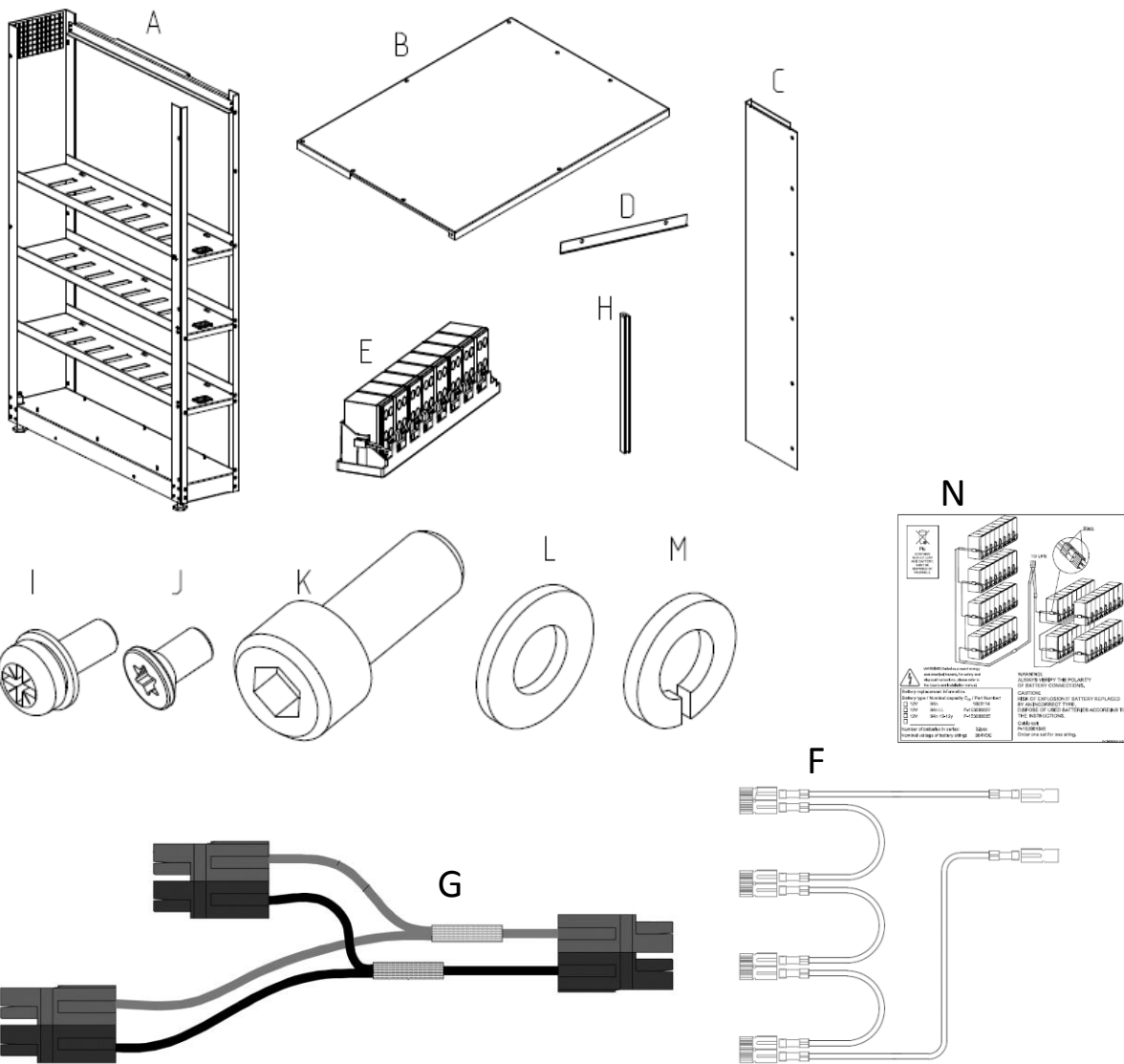
EATON CORPORATION, ELECTRICAL **EATON**

Description: <b>INSTR 9XPS-10 BATTERY SIDECAR INSTALLATION</b>		Specification No.	<b>P-110000720</b>		
<b>METRIC</b>	Dimensions are in millimeters unless otherwise specified	Format:	<b>MS Word</b>	Sheet:	<b>1</b> of <b>6</b>
Originated By:	<b>E.Ä</b>	Origination Date:	<b>13.08.2019</b>	Modified By:	Modification Date:
Revision:	<b>01</b>	ECO Number:	<b>ECO-165858</b>	Status:	<b>RELEASE</b>
				Size:	<b>A4</b>

EATON CORPORATION - CONFIDENTIAL AND PROPRIETARY  
 NOTICE TO PERSONS RECEIVING THIS DOCUMENT AND/OR TECHNICAL INFORMATION THIS DOCUMENT, INCLUDING THE DRAWING AND INFORMATION CONTAINED THEREON, IS CONFIDENTIAL AND IS THE EXCLUSIVE PROPERTY OF EATON CORPORATION, AND IS MERELY ON LOAN AND SUBJECT TO RECALL BY EATON AT ANY TIME. BY TAKING POSSESSION OF THIS DOCUMENT, THE RECIPIENT ACKNOWLEDGES AND AGREES THAT THIS DOCUMENT CANNOT BE USED IN ANY MANNER ADVERSE TO THE INTERESTS OF EATON, AND THAT NO PORTION OF THIS DOCUMENT MAY BE COPIED OR OTHERWISE REPRODUCED WITHOUT THE PRIOR WRITTEN CONSENT OF EATON. IN THE CASE OF CONFLICTING CONTRACTUAL PROVISIONS, THIS NOTICE SHALL GOVERN THE STATUS OF THIS DOCUMENT. © 2008 Eaton Corporation – All Rights Reserved.

**Package contents**

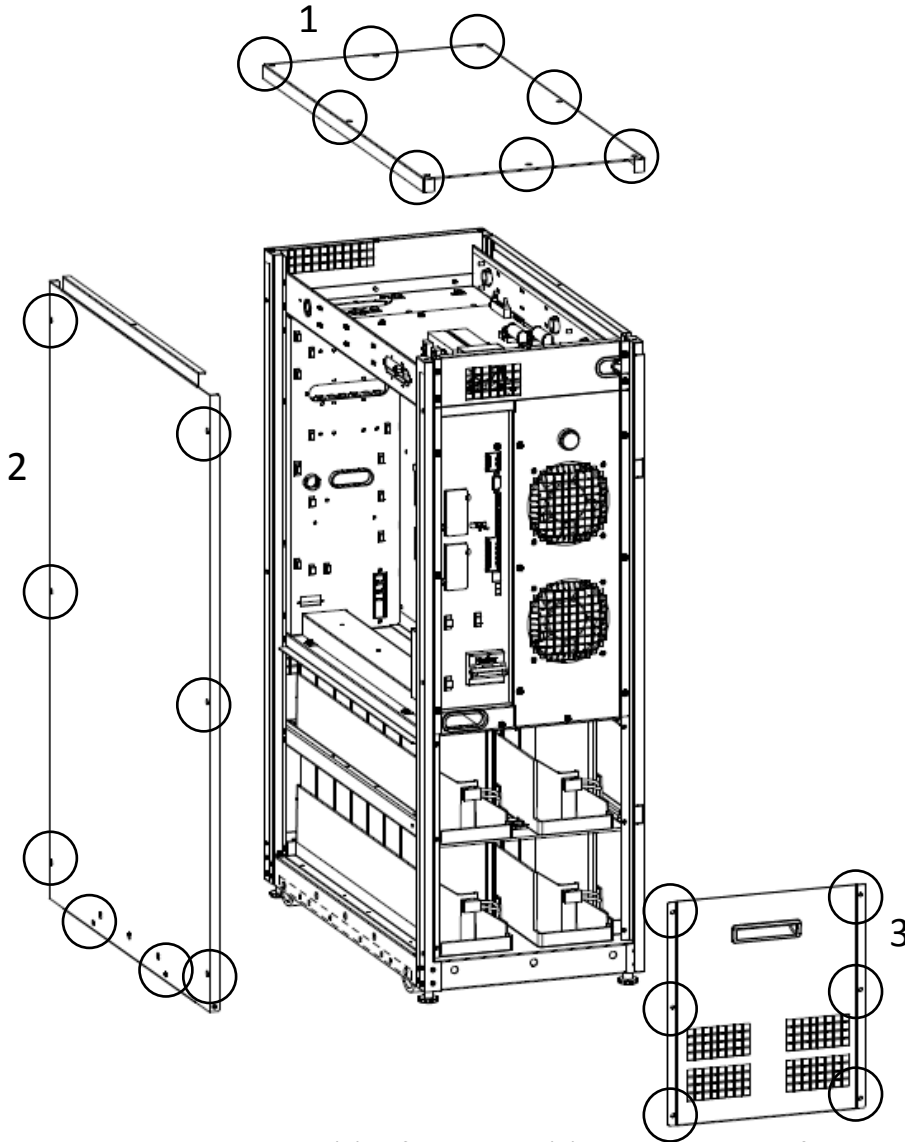
- Pre-assembled Battery Sidecar Frame **(A)**    **1x**    (P-103003705)
- Top Plate **(B)**    **1x**    (P-157003641)
- Front Panel **(C)**    **1x**    (P-157003642)
- Bottom Bracket **(D)**    **1x**    (P-157003657)
- Battery Tray (Optional) **(E)**    **4x**    (N/A)
- Battery String Harness **(F)**    **1x**    (P-152001014)
- Harness Sidecar to UPS **(G)**    **1x**    (P-152002140)
- Edge protector **(H)**    **1x**    (1017863)
- Screw M4X10 PZ **(I)**    **6x**    (1023144)
- Screw M4X10 FLA-TX Black **(J)**    **22x**    (P-180000072)
- Bolt M8X18 **(K)**    **2x**    (180500034-818)
- Washer Plain M8 **(L)**    **2x**    (4040308)
- Washer Spring M8 **(M)**    **2x**    (4220083)
- Battery Wiring Label **(N)**    **1x**    (P-138000525)



**EATON CORPORATION, ELECTRICAL**

Description: <b>INSTR 9XPS-10 BATTERY SIDECAR INSTALLATION</b>				Specification No. <b>P-110000720</b>	
METRIC	Dimensions are in millimeters unless otherwise specified	Format:	<b>MS Word</b>		
Originated By:	<b>E.Ä</b>	Origination Date:	<b>13.08.2019</b>	Modified By:	Modification Date:
Revision:	<b>01</b>	ECO Number:	<b>ECO-165858</b>	Status:	<b>RELEASE</b>
				Sheet:	<b>2</b> of <b>6</b>
				Size:	<b>A4</b>

EATON CORPORATION - CONFIDENTIAL AND PROPRIETARY  
 NOTICE TO PERSONS RECEIVING THIS DOCUMENT AND/OR TECHNICAL INFORMATION THIS DOCUMENT, INCLUDING THE DRAWING AND INFORMATION CONTAINED THEREON, IS CONFIDENTIAL AND IS THE EXCLUSIVE PROPERTY OF EATON CORPORATION, AND IS MERELY ON LOAN AND SUBJECT TO RECALL BY EATON AT ANY TIME. BY TAKING POSSESSION OF THIS DOCUMENT, THE RECIPIENT ACKNOWLEDGES AND AGREES THAT THIS DOCUMENT CANNOT BE USED IN ANY MANNER ADVERSE TO THE INTERESTS OF EATON, AND THAT NO PORTION OF THIS DOCUMENT MAY BE COPIED OR OTHERWISE REPRODUCED WITHOUT THE PRIOR WRITTEN CONSENT OF EATON. IN THE CASE OF CONFLICTING CONTRACTUAL PROVISIONS, THIS NOTICE SHALL GOVERN THE STATUS OF THIS DOCUMENT. © 2008 Eaton Corporation – All Rights Reserved.

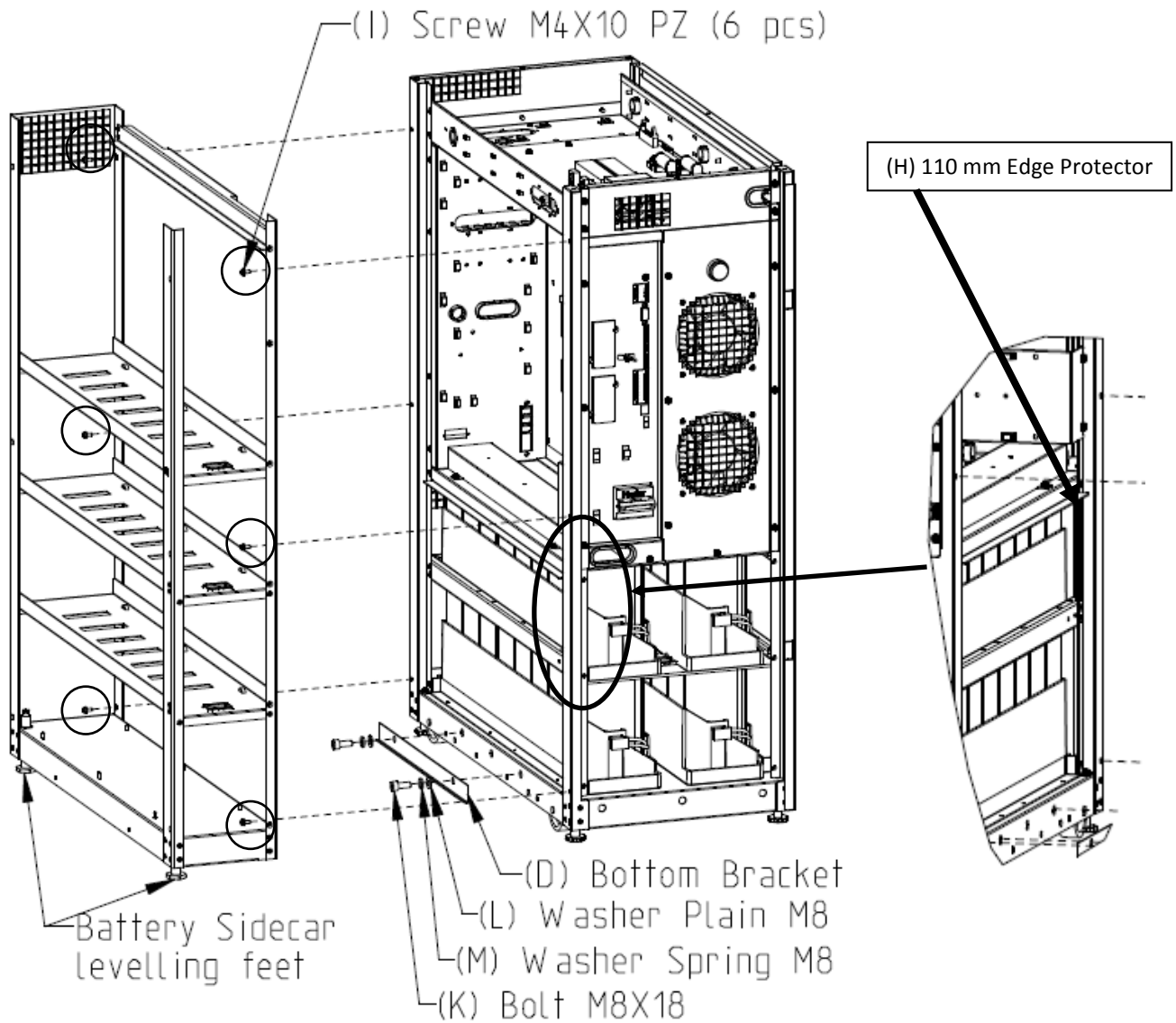


1. Remove top plate (1), left side plate (2) and battery dead front plate (3) of the UPS.

EATON CORPORATION, ELECTRICAL **EATON**

Description: <b>INSTR 9XPS-10 BATTERY SIDECAR INSTALLATION</b>				Specification No. <b>P-110000720</b>	
<b>METRIC</b>	Dimensions are in millimeters unless otherwise specified	Format: <b>MS Word</b>	Sheet: <b>3</b>	of	<b>6</b>
Originated By: <b>E.Ä</b>	Origination Date: <b>13.08.2019</b>	Modified By:	Modification Date:		
Revision: <b>01</b>	ECO Number: <b>ECO-165858</b>	Status: <b>RELEASE</b>	Size: <b>A4</b>		

EATON CORPORATION - CONFIDENTIAL AND PROPRIETARY  
 NOTICE TO PERSONS RECEIVING THIS DOCUMENT AND/OR TECHNICAL INFORMATION THIS DOCUMENT, INCLUDING THE DRAWING AND INFORMATION CONTAINED THEREON, IS CONFIDENTIAL AND IS THE EXCLUSIVE PROPERTY OF EATON CORPORATION, AND IS MERELY ON LOAN AND SUBJECT TO RECALL BY EATON AT ANY TIME. BY TAKING POSSESSION OF THIS DOCUMENT, THE RECIPIENT ACKNOWLEDGES AND AGREES THAT THIS DOCUMENT CANNOT BE USED IN ANY MANNER ADVERSE TO THE INTERESTS OF EATON, AND THAT NO PORTION OF THIS DOCUMENT MAY BE COPIED OR OTHERWISE REPRODUCED WITHOUT THE PRIOR WRITTEN CONSENT OF EATON. IN THE CASE OF CONFLICTING CONTRACTUAL PROVISIONS, THIS NOTICE SHALL GOVERN THE STATUS OF THIS DOCUMENT. © 2008 Eaton Corporation – All Rights Reserved.

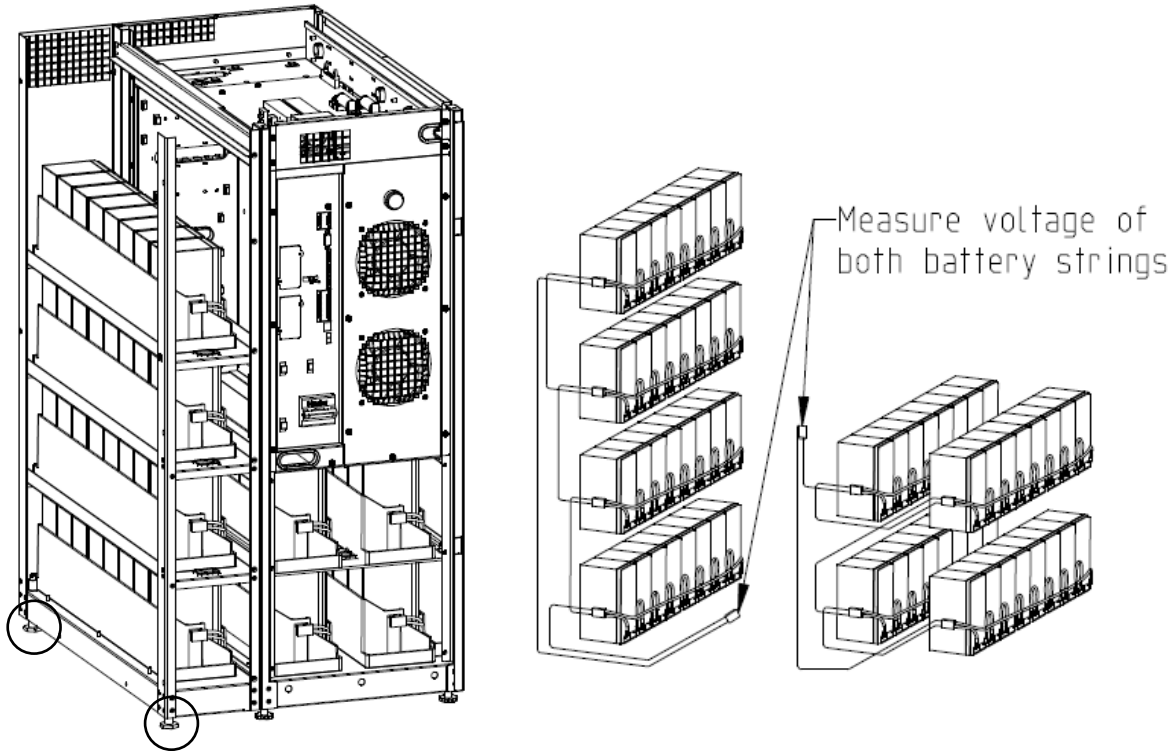


2. Fasten the bottom bracket (D) with M8 bolts and washers (K, L, M) to the UPS frame. Add 110 mm edge protector (H) on the UPS left front corner pole, beside the UPS's internal batteries on the upper shelf, as shown in the picture.
3. Ensure the bottom levelling feet of the Battery Sidecar are retracted before seating the Battery Sidecar frame.
4. Ensure that the Battery Sidecar frame is seated and aligned to the UPS frame properly.
5. Fasten the Battery Sidecar frame to UPS with screw (I) M4X10 PZ 6 pcs.

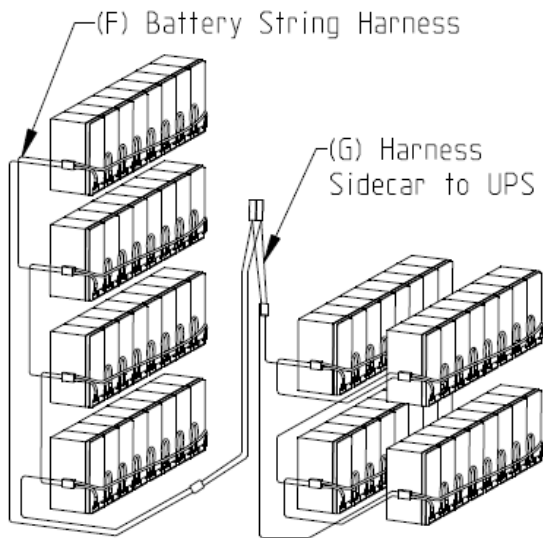
**EATON**

Description: <b>INSTR 9XPS-10 BATTERY SIDECAR INSTALLATION</b>				Specification No. <b>P-110000720</b>	
<b>METRIC</b>	Dimensions are in millimeters unless otherwise specified	Format: <b>MS Word</b>	Sheet: <b>4</b>	of <b>6</b>	
Originated By: <b>E.Ä</b>	Origination Date: <b>13.08.2019</b>	Modified By:	Modification Date:		
Revision: <b>01</b>	ECO Number: <b>ECO-165858</b>	Status: <b>RELEASE</b>	Size: <b>A4</b>		

EATON CORPORATION - CONFIDENTIAL AND PROPRIETARY  
 NOTICE TO PERSONS RECEIVING THIS DOCUMENT AND/OR TECHNICAL INFORMATION THIS DOCUMENT, INCLUDING THE DRAWING AND INFORMATION CONTAINED THEREON, IS CONFIDENTIAL AND IS THE EXCLUSIVE PROPERTY OF EATON CORPORATION, AND IS MERELY ON LOAN AND SUBJECT TO RECALL BY EATON AT ANY TIME. BY TAKING POSSESSION OF THIS DOCUMENT, THE RECIPIENT ACKNOWLEDGES AND AGREES THAT THIS DOCUMENT CANNOT BE USED IN ANY MANNER ADVERSE TO THE INTERESTS OF EATON, AND THAT NO PORTION OF THIS DOCUMENT MAY BE COPIED OR OTHERWISE REPRODUCED WITHOUT THE PRIOR WRITTEN CONSENT OF EATON. IN THE CASE OF CONFLICTING CONTRACTUAL PROVISIONS, THIS NOTICE SHALL GOVERN THE STATUS OF THIS DOCUMENT. © 2008 Eaton Corporation - All Rights Reserved.



6. Adjust the Battery Sidecar levelling feet properly before installing the battery trays.
7. Add battery trays (E) to the Battery Sidecar cabinet. Connect battery trays of the Battery Sidecar cabinet together with Battery String Harness (F). Measure the voltages of Battery Sidecar and UPS battery strings with a multimeter. Voltage difference shall be less than 10 V. If the voltage difference is more than 10 V, charge the batteries accordingly.

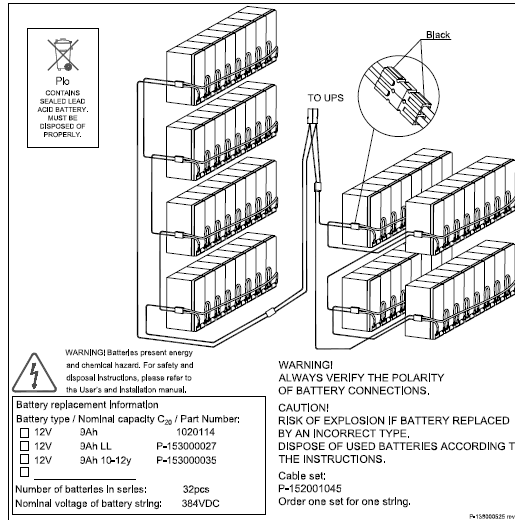
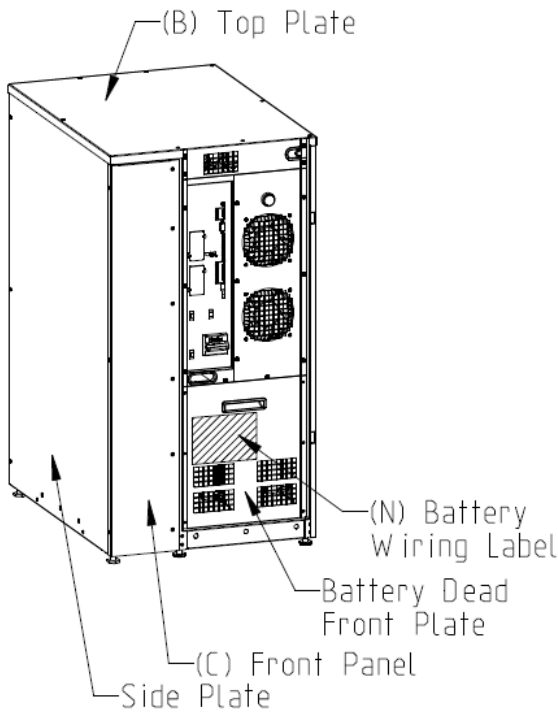


8. Connect Battery Sidecar batteries and UPS's internal batteries to UPS with cable harness (G) according to the Battery Wiring Label (N).

**EATON CORPORATION, ELECTRICAL**

Description: <b>INSTR 9XPS-10 BATTERY SIDECAR INSTALLATION</b>		Specification No.	<b>P-110000720</b>		
<b>METRIC</b>	Dimensions are in millimeters unless otherwise specified	Format:	<b>MS Word</b>		Sheet: <b>5</b> of <b>6</b>
Originated By:	<b>E.Ä</b>	Origination Date:	<b>13.08.2019</b>		Modification Date:
Revision:	<b>01</b>	ECO Number:	<b>ECO-165858</b>		Status: <b>RELEASE</b> Size: <b>A4</b>

EATON CORPORATION - CONFIDENTIAL AND PROPRIETARY  
 NOTICE TO PERSONS RECEIVING THIS DOCUMENT AND/OR TECHNICAL INFORMATION THIS DOCUMENT, INCLUDING THE DRAWING AND INFORMATION CONTAINED THEREON, IS CONFIDENTIAL AND IS THE EXCLUSIVE PROPERTY OF EATON CORPORATION, AND IS MERELY ON LOAN AND SUBJECT TO RECALL BY EATON AT ANY TIME. BY TAKING POSSESSION OF THIS DOCUMENT, THE RECIPIENT ACKNOWLEDGES AND AGREES THAT THIS DOCUMENT CANNOT BE USED IN ANY MANNER ADVERSE TO THE INTERESTS OF EATON, AND THAT NO PORTION OF THIS DOCUMENT MAY BE COPIED OR OTHERWISE REPRODUCED WITHOUT THE PRIOR WRITTEN CONSENT OF EATON. IN THE CASE OF CONFLICTING CONTRACTUAL PROVISIONS, THIS NOTICE SHALL GOVERN THE STATUS OF THIS DOCUMENT. © 2008 Eaton Corporation – All Rights Reserved.



(N) Battery Wiring Label

- Fasten the Battery Dead Front Plate, Side Plate, Top Plate (B) and Front Panel (C) in this order. Replace the old battery wiring label on the UPS Battery Dead Front Plate with new Battery Wiring Label (N) P-138000525.

**EATON CORPORATION, ELECTRICAL**

Description: <b>INSTR 9XPS-10 BATTERY SIDECAR INSTALLATION</b>				Specification No. <b>P-110000720</b>	
<b>METRIC</b>	Dimensions are in millimeters unless otherwise specified	Format: <b>MS Word</b>	Sheet: <b>6</b>	of <b>6</b>	
Originated By: <b>E.Ä</b>	Origination Date: <b>13.08.2019</b>	Modified By:	Modification Date:		
Revision: <b>01</b>	ECO Number: <b>ECO-165858</b>	Status: <b>RELEASE</b>	Size: <b>A4</b>		

EATON CORPORATION - CONFIDENTIAL AND PROPRIETARY  
 NOTICE TO PERSONS RECEIVING THIS DOCUMENT AND/OR TECHNICAL INFORMATION THIS DOCUMENT, INCLUDING THE DRAWING AND INFORMATION CONTAINED THEREON, IS CONFIDENTIAL AND IS THE EXCLUSIVE PROPERTY OF EATON CORPORATION, AND IS MERELY ON LOAN AND SUBJECT TO RECALL BY EATON AT ANY TIME. BY TAKING POSSESSION OF THIS DOCUMENT, THE RECIPIENT ACKNOWLEDGES AND AGREES THAT THIS DOCUMENT CANNOT BE USED IN ANY MANNER ADVERSE TO THE INTERESTS OF EATON, AND THAT NO PORTION OF THIS DOCUMENT MAY BE COPIED OR OTHERWISE REPRODUCED WITHOUT THE PRIOR WRITTEN CONSENT OF EATON. IN THE CASE OF CONFLICTING CONTRACTUAL PROVISIONS, THIS NOTICE SHALL GOVERN THE STATUS OF THIS DOCUMENT. © 2008 Eaton Corporation – All Rights Reserved.