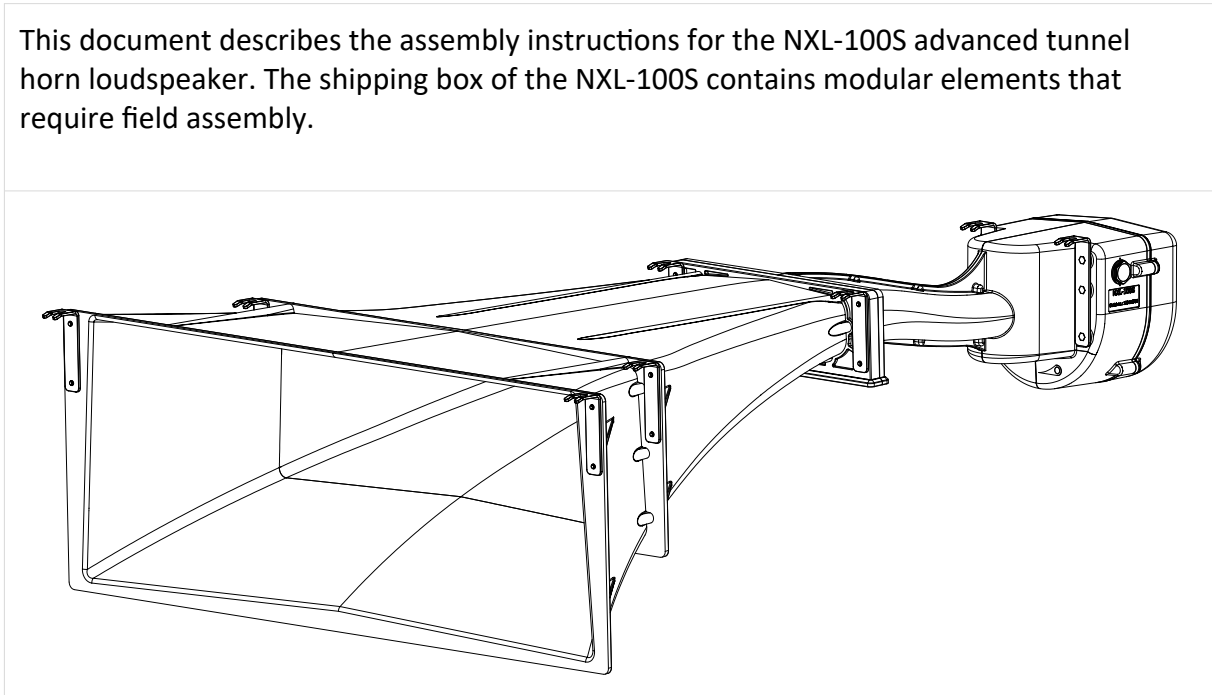


MANUAL

Product	NXL-100S	Part numbers	0200201, 0200203 and 0200205
Document version	1.0	Document status	Release
Notes	Full Height product variant 0200201 = Standard with cable gland on left side (front view) 0200203 = Optional Hirschmann CA 3 GD* on left side (front view) 0200205 = Optional Hirschmann CA 3 GD on right side (front view)		

ASSEMBLY INSTRUCTIONS

This document describes the assembly instructions for the NXL-100S advanced tunnel horn loudspeaker. The shipping box of the NXL-100S contains modular elements that require field assembly.

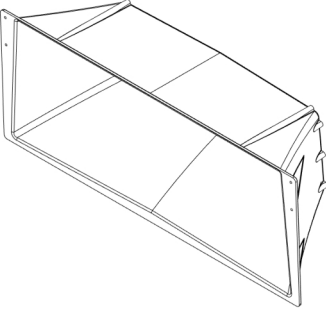
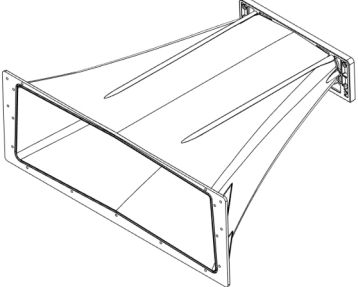
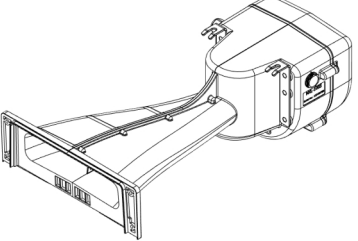


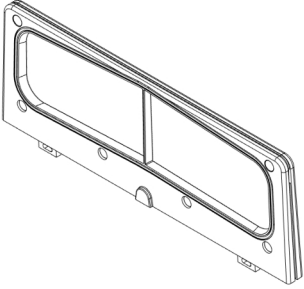
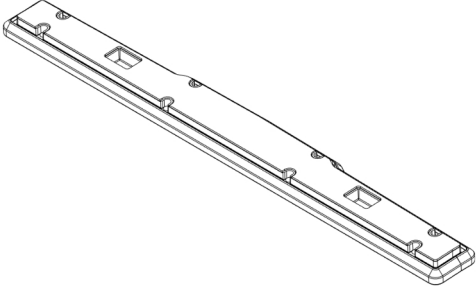
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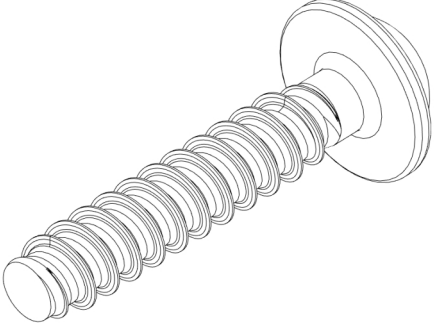
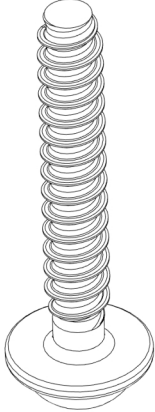
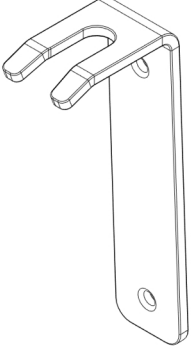
* Product names such as Hirschmann CA 3 GD mentioned in this document are the property of their respective owners. The use of these names is solely for identification and reference purposes. NXD-Audio BV does not claim any ownership of the trademarked names mentioned.

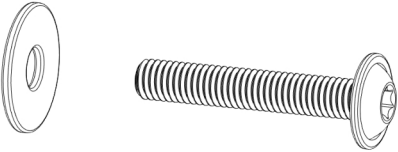

MODULES

1 ^a .	<p>The NXL 100S consists of the main modules as indicated hereafter.</p> <p>First part is the front section of the horn.</p>	
1 ^b .	<p>The mid section.</p>	
1 ^c .	<p>The rear section, this section contains the driver and electronics.</p>	

1 ^d .	The filter assembly.	
1 ^e .	The filter cover.	

FASTENERS AND BRACKETS

1 ^a .	<p>The modules will be assembled by using the following fasteners and brackets.</p> <p>M5 x 25 T25 torx screw (13 pcs).</p> <p>These are used to mount the front section to the mid section.</p>	
1 ^b .	<p>M4 x 25 T20 torx screw (8 pcs).</p> <p>These are used to mount the filter cover.</p>	
1 ^c .	<p>Mounting bracket 'front-style' (4 pcs).</p>	

1 ^d .	<p>M5 x 30 T25 torx bolt + washer (4 pcs).</p> <p>These are used to mount the brackets that are located in the middle.</p>	
1 ^e .	<p>M5 x 12 T25 torx bolt + washer (4 pcs).</p> <p>These are used to mount the brackets that are located at the front.</p>	

REQUIRED TOOLS

1. The following tools are required for the assembly:

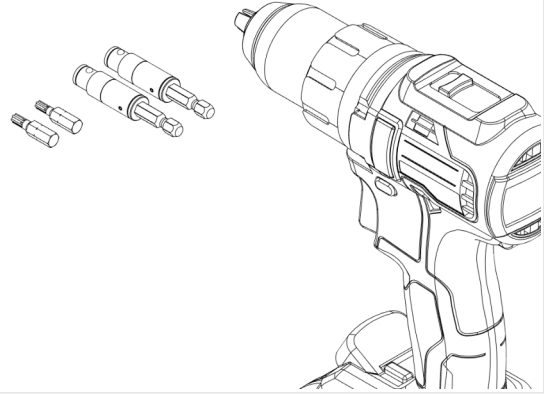
Torx T25 bit.

Torx T20 bit.

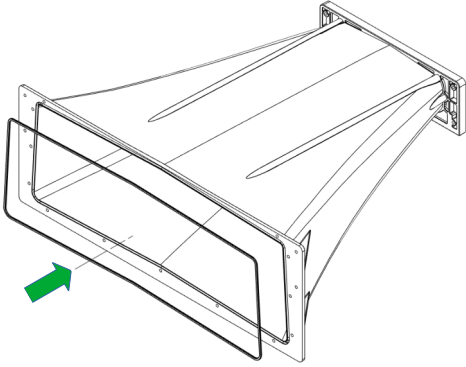
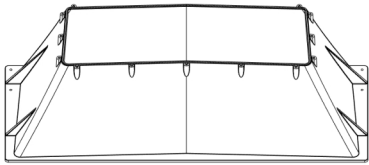
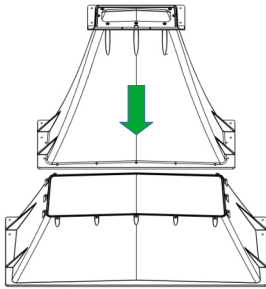
Torque adapter 4.0 Nm.

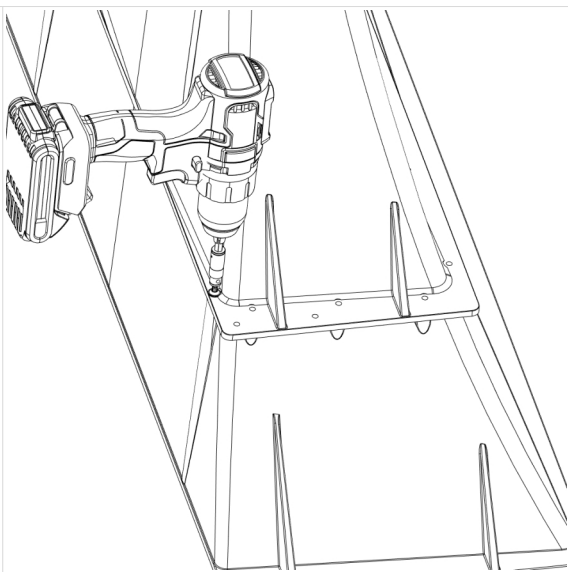
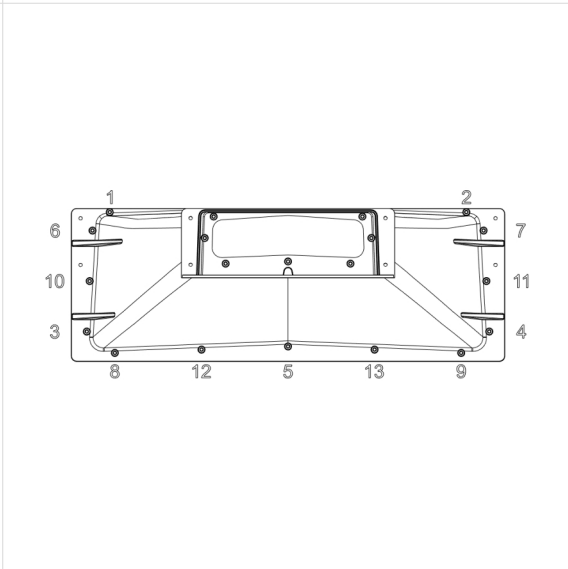

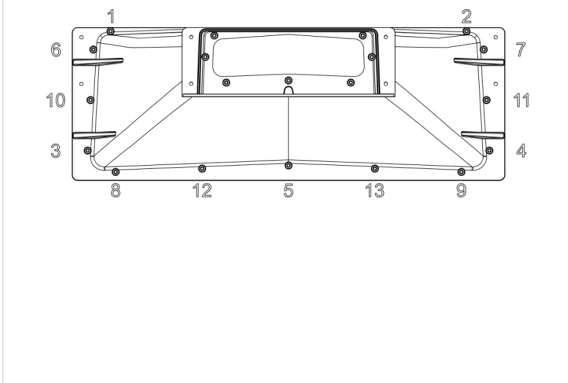
Torque adapter 2.0 Nm.

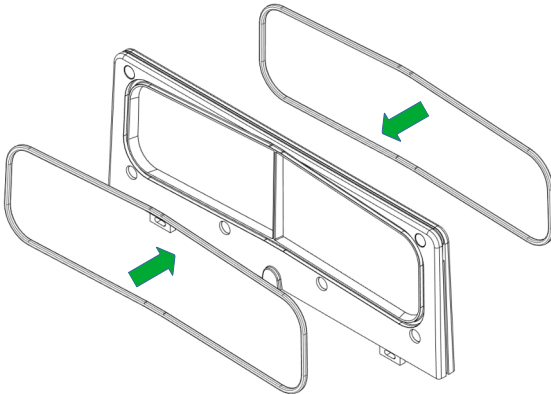
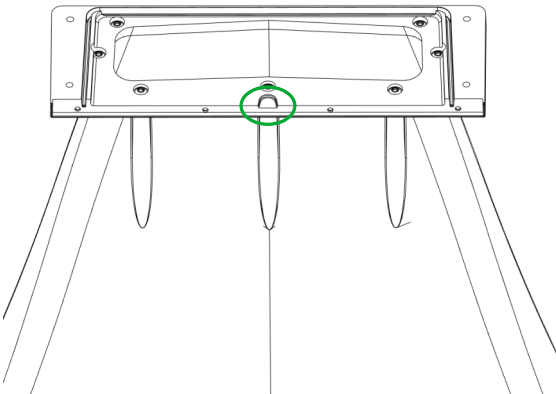
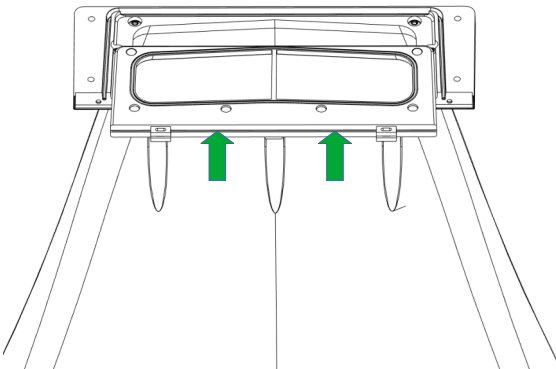
Cordless drill or manual drive tool.

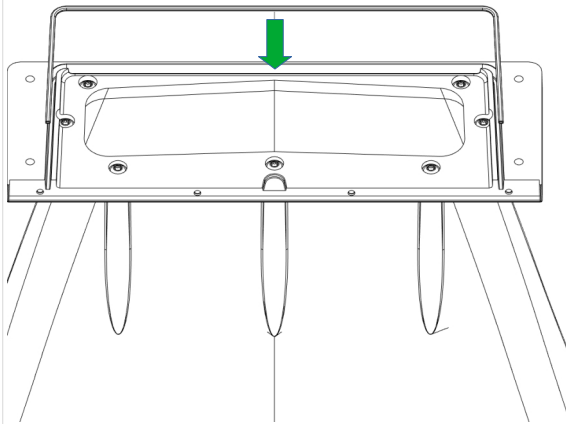
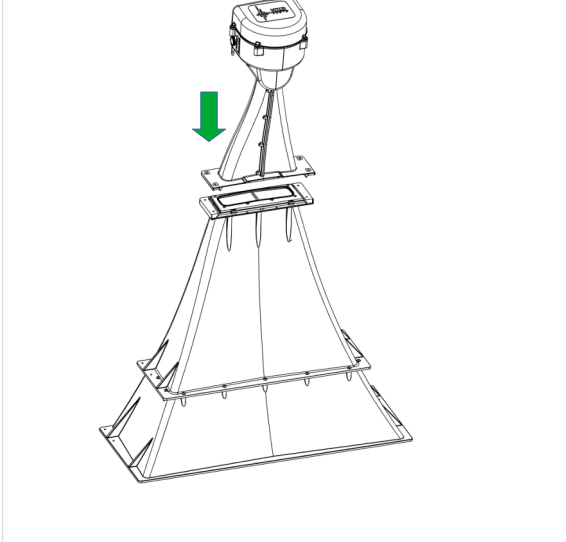
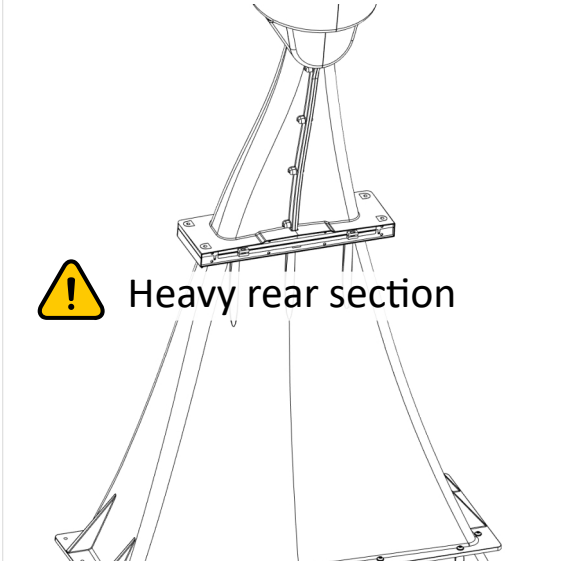



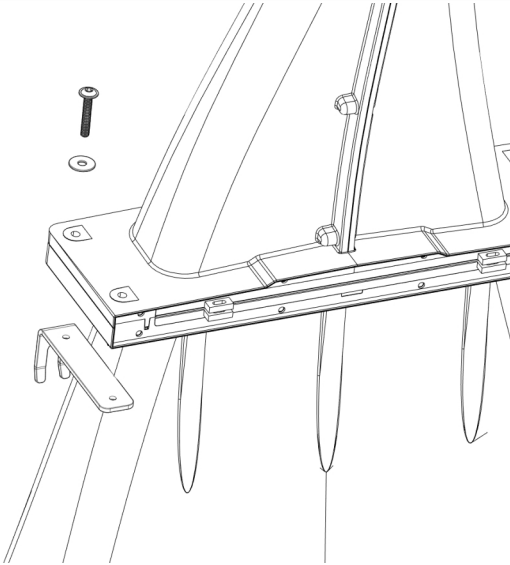
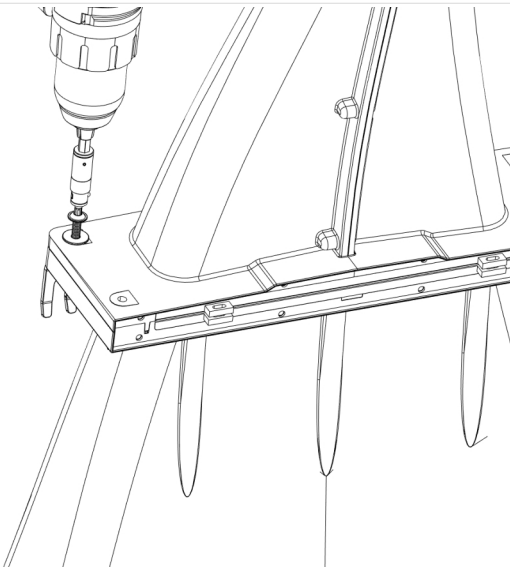
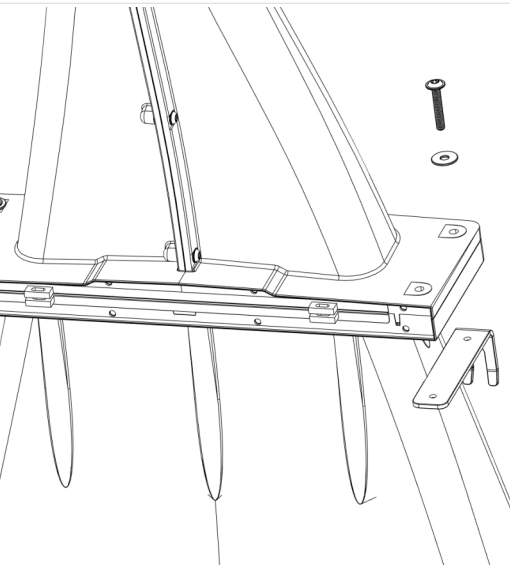
ASSEMBLY

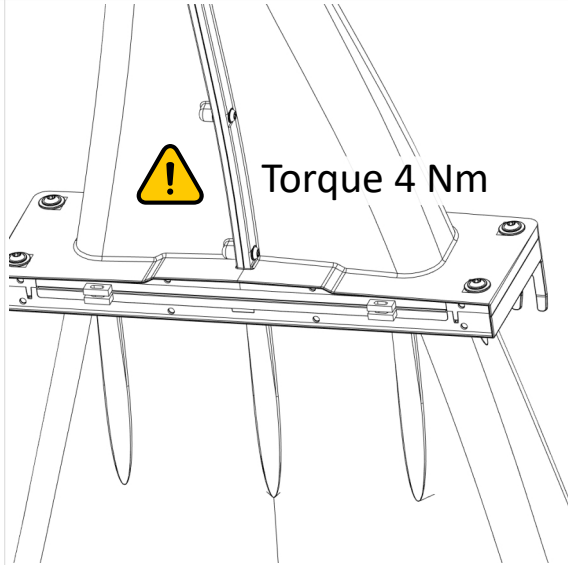
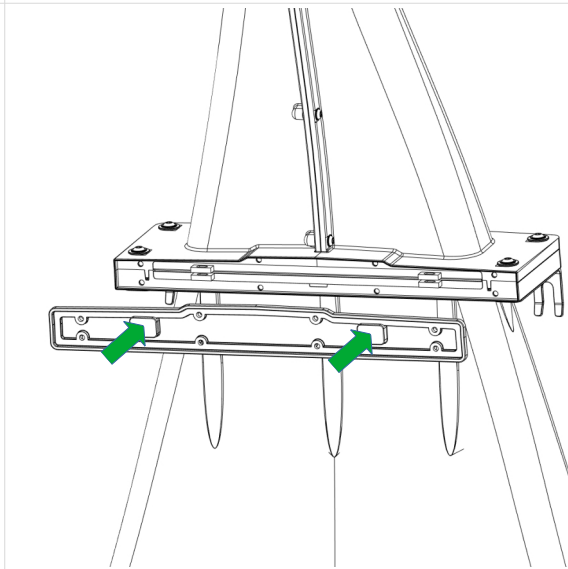
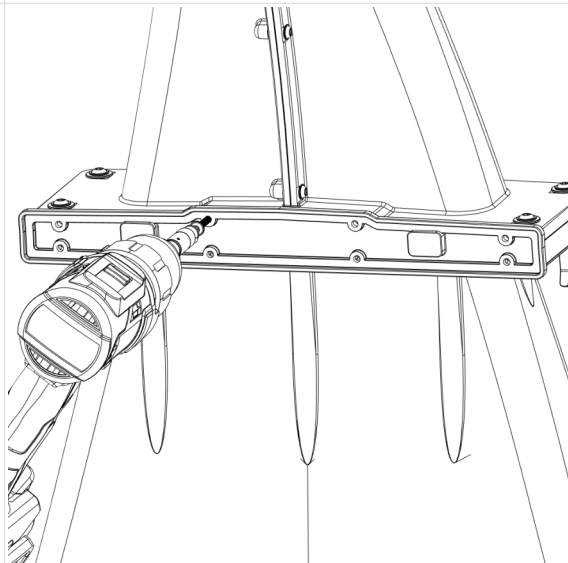
1.	<p>Ensure that your work area is clean before starting with the assembly.</p> <p>First the mid section will be mounted on the front section.</p> <p>Verify that the gasket on the front side of the mid section is clean and properly seated in the groove.</p>	
2.	<p>Take the front section and position it with the front facing down.</p>	
3.	<p>Position the mid section on the front section, making sure the tongue and groove of the two sections fit together properly.</p>	

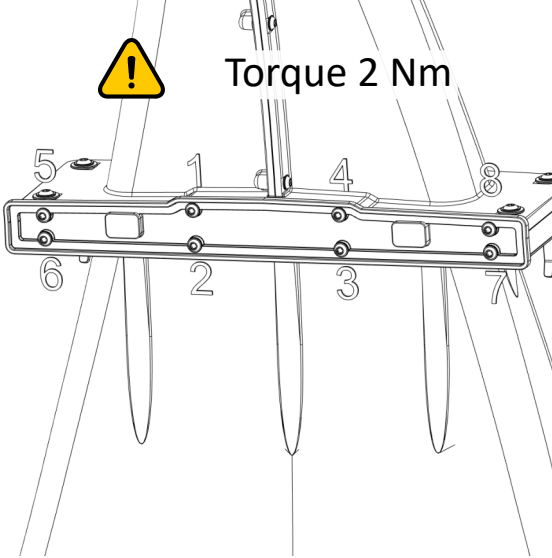
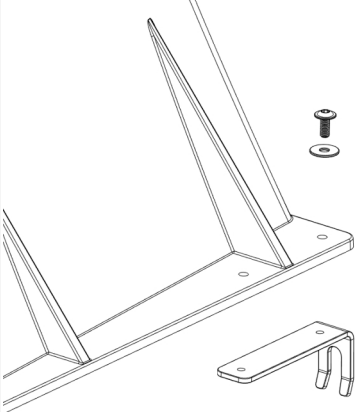
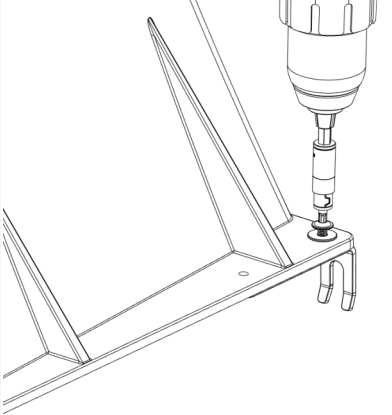
<p>4^a.</p>	<p>Insert an M5 x 25 torx screw at the indicated position and screw it in until the head touches the flange. Do not fully tighten yet.</p> <p>Keep the speed below 500 rpm or below the maximum allowable speed for your torque adapter, whichever is lower.</p> <p>Repeat this for the other twelve screws.</p>	
<p>4^b.</p>	<p>After all thirteen M5 x 25 torx screws are inserted, they must be tightened with a torque of 4 Nm.</p> <p>Follow the tightening sequence as indicated by the numbers for an even preload distribution.</p>	
<p>4^c.</p>	<p>Use the proper torque during tightening.</p> <p>Under-tightening may result in leakage and a reduced mechanical strength of the assembly, while over-tightening may result in thread stripping or screw breakage.</p>	<p> Torque 4 Nm</p> 

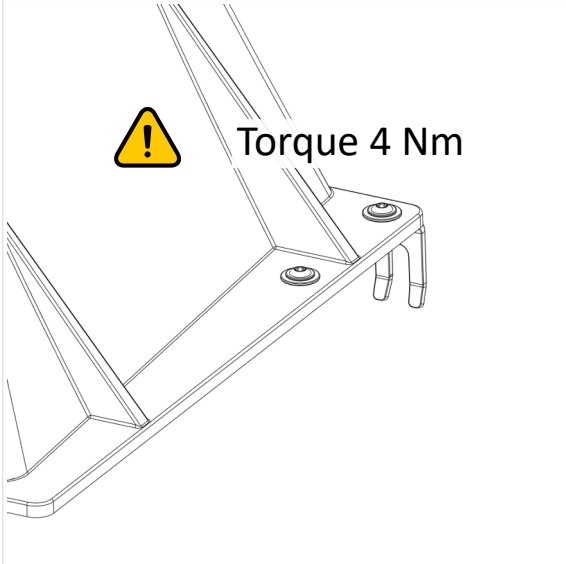
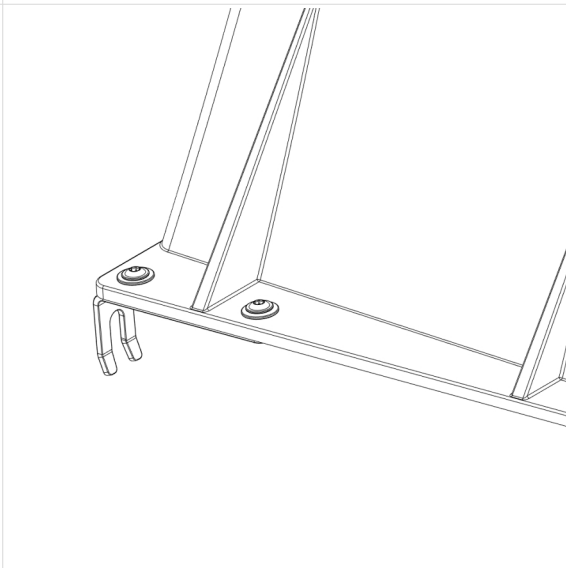
<p>5.</p>	<p>After the front and mid section are assembled, it is convenient to first insert the filter before the rear section is mounted.</p> <p>First check that the round gaskets are clean and properly seated in the groove of the front and rear filter frames.</p>	
<p>6^a.</p>	<p>Pay attention to the correct orientation when installing the filter assembly.</p> <p>The front filter frame has a cam that corresponds with a recess in the filter cavity of the mid section.</p>	
<p>6^b.</p>	<p>Place the filter assembly and push it against the top edge of the filter cavity.</p> <p>The bottom of the filter frame and the filter cavity should be aligned.</p>	

7.	<p>Now the rear section should be mounted.</p> <p>First check that the gasket on the mid section side is clean and properly seated in the groove.</p>	
8 ^a .	<p>The rear section should now be positioned, making sure the tongue and groove of the two parts fit together properly.</p>	
8 ^b .	<p>The rear section is quite heavy, make sure it doesn't fall off before it is fully attached.</p>	 <p> Heavy rear section</p>

<p>9^a.</p>	<p>Place the first mounting bracket with the slot facing the front of the horn.</p> <p>The concave, or hollow side of the washer must be facing the flange of the rear section.</p>	
<p>9^b.</p>	<p>Take an M5 x 30 T25 torx bolt and screw it into the bracket. Do not fully tighten yet.</p>	
<p>9^c.</p>	<p>Proceed by mounting the bracket on the opposite side in the same way.</p> <p>Again do not tighten completely yet, as the bracket should be able to move slightly when the second bolt is installed.</p>	

<p>9^d.</p>	<p>Now screw the remaining two M5 x 30 torx bolts into the brackets.</p> <p>Ensure that all 4 bolts are tightened with a torque of 4 Nm.</p>	
<p>10.</p>	<p>The filter cover can now be mounted.</p> <p>Note the proper orientation. The shape of this cover is asymmetrical, it cannot be reverse mounted.</p> <p>First verify that the filter is still properly aligned.</p> <p>Push the filter cover onto the horn assembly and hold it in place.</p>	
<p>11^a.</p>	<p>Take one of the M4 x 25 screws and install it in the indicated location.</p> <p>Note that for these screws the drive is T20 torx.</p> <p>Use a speed below 500 rpm and do not fully tighten yet.</p>	

<p>11^b.</p>	<p>After all screws are installed, tighten them in the indicated order with a torque of 2 Nm.</p> <p>Note the lower torque value here, do not over-tighten as this may result in thread stripping.</p>	
<p>12^a.</p>	<p>Finally, to complete the assembly, mount the two front brackets.</p> <p>Place the first mounting bracket with the slot facing forward.</p> <p>The concave, or hollow side of the washer must be facing the flange of the front section.</p>	
<p>12^b.</p>	<p>Take an M5 x 12 T25 torx bolt and screw it into the bracket.</p> <p>Do not fully tighten yet, the bracket should be able to move slightly when the second bolt is installed.</p>	

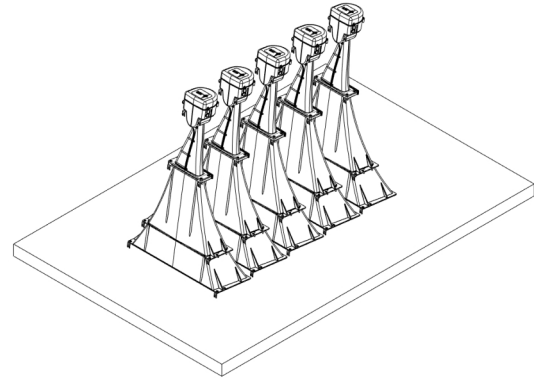
12 ^c .	Install the second bolt and tighten both bolts with a torque of 4 Nm.	
12 ^d .	Install the bracket on the other side in the same way.	

STORAGE

- 1^a. After the assembly procedure has been completed, store the device in a dry and dust-free place.

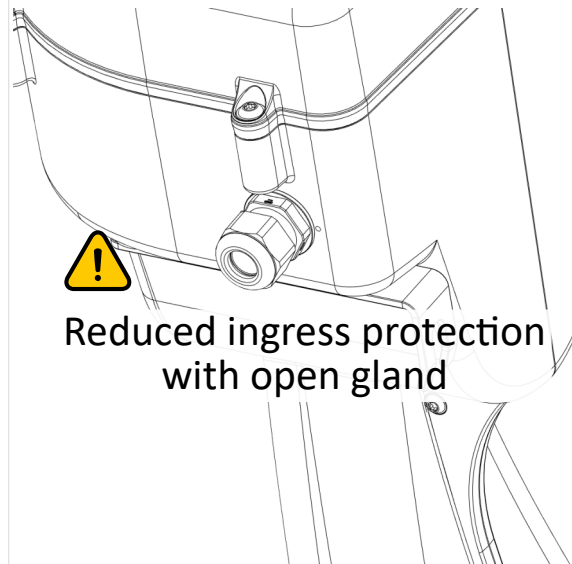
For storage, the device can be placed on its front.

Please note however, that ingress protection may be compromised if the orientation deviates from the normal mounting direction.



- 1^b. Also, the cable gland without cable results in a reduced ingress protection.

Take the necessary precautions against dust and moisture ingress to prevent damage during storage.



DOCUMENT REVISION

1.0	03-09-2024	Start version.
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