

Work Instruction: Assembly and Testing LED Flashlight

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1 PURPOSE & SCOPE

This work instruction describes the proper assembly and functional testing of an LED flashlight from individual components. The instruction applies to all employees who perform this assembly step.

2 RESPONSIBILITIES

Implementation	Andreas Ditrich
Quality assurance	Quirin Sicher
Revision	Rita Vital

3 SAFETY INSTRUCTIONS

Only undamaged, functional components may be used. When handling, injuries and crushing must be avoided. Do not use defective or hot batteries.

4 REFERENCES AND RELEVANT DOCUMENTS

Safe handling of button cells

5 MATERIALS AND EQUIPMENT

Materials:

LED module, metal housing, battery pack, switch module

Equipment:

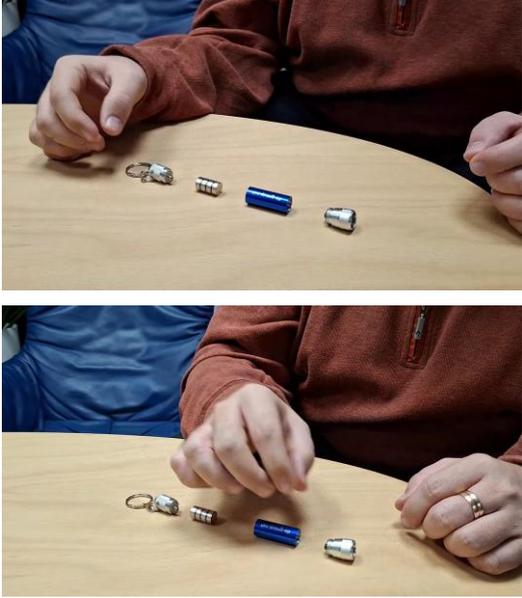
Glove (optional for assembly)

6 PROCEDURE DESCRIPTION

6.1 STEP 1: PREPARATION AND INSPECTION OF COMPONENTS

Materials and Tools

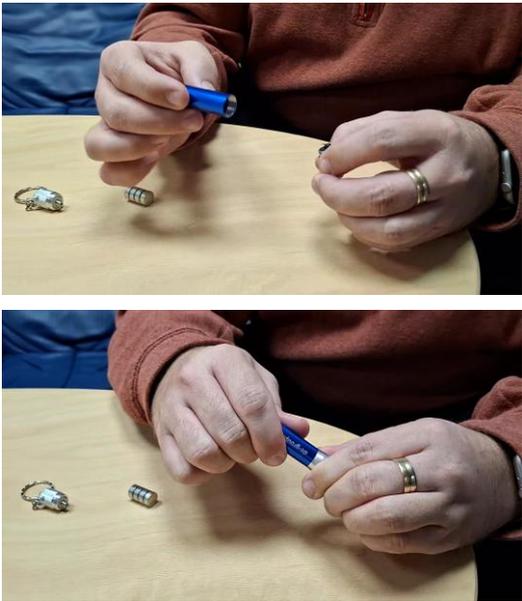
LED module, metal housing, battery pack, switch module

	<p>Procedure</p> <ul style="list-style-type: none"> - Arrange all required components clearly. - Perform a visual inspection for damage and functionality of all components. - Use only the designated components and variants. - Take care to avoid injuries or crushing when handling the components. <p>Notes</p> <ul style="list-style-type: none"> - If components are damaged or missing, they must not be used further. - For other model variants: prepare corresponding components.
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6.2 STEP 2: ASSEMBLY OF THE LAMP HOUSING

Materials and Tools

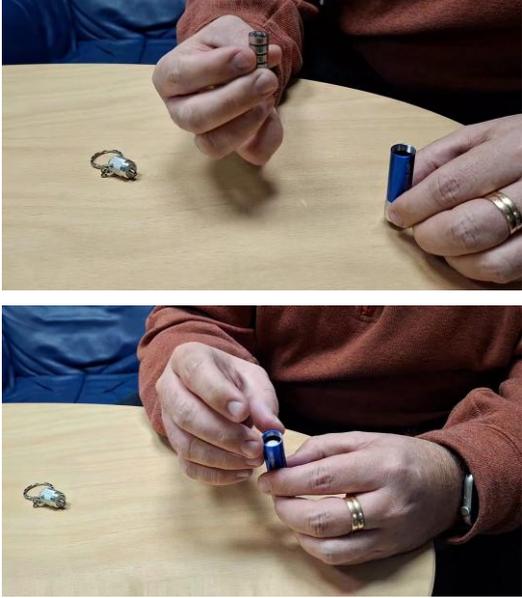
LED module, metal housing

	<p>Procedure</p> <ul style="list-style-type: none"> - Screw the LED module to the metal housing. - Tighten the connection hand-tight. - Ensure centered alignment of the parts during assembly. - Avoid jamming of the components. <p>Notes</p> <ul style="list-style-type: none"> - For tight-fitting parts, a glove may be used (not shown in the video). - No tools necessary for assembly.
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6.3 STEP 3: INSERTION AND ALIGNMENT OF THE BATTERY

Materials and Tools

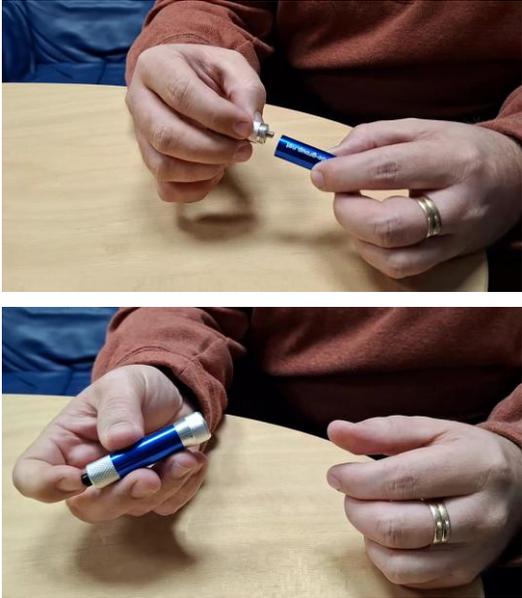
Battery pack, LED module, metal housing

	<p>Procedure</p> <ul style="list-style-type: none"> - Check the position of the positive pole of the battery. - Insert the battery with the positive pole facing the LED module. - Check whether the battery has been inserted correctly. - Observe the correct polarity for function. <p>Notes</p> <ul style="list-style-type: none"> - With incorrect polarity, function is not guaranteed. - Do not use defective or hot batteries.
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6.4 STEP 4: ASSEMBLY OF THE SWITCH AND FUNCTIONAL TEST

Materials and Tools

Switch module, LED module, metal housing, battery pack

	<p>Procedure</p> <ul style="list-style-type: none"> - Screw the switch module onto the open housing end. - Tighten the connection in clockwise direction. - Test the function of the flashlight by operating the switch. - Investigate possible causes in case of errors. <p>Notes</p> <ul style="list-style-type: none"> - In case of malfunctions, do not make further attempts and report the device. - After completion, clean up the work area and store the flashlight properly.
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