



## AXIS P14 Series

AXIS P1445-LE Network Camera

AXIS P1447-LE Network Camera

AXIS P1448-LE Network Camera

## Repainting Instructions

# AXIS P14 Series

## How to repaint the product

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### Impact on warranty

This product is approved for repaint by Axis, provided that you follow the instructions in this document and at [www.axis.com/warranty-implication-when-repainting](http://www.axis.com/warranty-implication-when-repainting)

### Risks with repainting

There are several risks when disassembling or assembling an Axis product. There is always a certain yield loss during assembly. Training of operators and the use of correct tools mediates some of the problems but they can never be fully avoided. Some of the risks include:

**ESD Damage** - Always handle the product in an ESD safe environment. Even if precautions are taken there is always a risk of ESD damage. The damage can remain undetected and cause problems during the lifetime of the equipment.

**Dust contamination** - Opening a camera may expose the lens and sensor to dust or paint. Dust will affect the optical performance. Lenses need to be disassembled in a dust-free environment, preferably a cleanroom.

**Paint overspray** - Masking the different components of the equipment is critical. Failure to mask sensitive areas can cause problems with assembling the equipment. Any areas that are not painted at factory or have a different surface treatment than the rest of the parts (threads, ground and electrical contact surfaces) must also be masked to ensure function.

## 1. Table of Contents

<b>1.</b>	<b><i>Table of Contents</i></b> .....	<b>3</b>
<b>2.</b>	<b><i>Introduction</i></b> .....	<b>4</b>
<b>2.1.</b>	<b>Risks</b> .....	<b>5</b>
<b>3.</b>	<b><i>Disassembly instructions for AXIS P1445/47/48-LE camera</i></b> .....	<b>5</b>
<b>3.1.</b>	<b>Separate product outer parts:</b> .....	<b>5</b>
<b>3.2.</b>	<b>Preparation of the bottom base cover:</b> .....	<b>6</b>
<b>3.3.</b>	<b>Preparation of the weather shield and its holder:</b> .....	<b>7</b>
<b>3.4.</b>	<b>Preparation of the camera body:</b> .....	<b>8</b>

Please note that AXIS does not take any responsibility for how this guide may affect your components. If the modification fails or if you get other unexpected results, do not continue the modifications and seek advice.

## 2. Introduction

*The following document is a guide to repaint AXIS P1445/47/48-LE Network Camera. The document should be read in conjunction with the “Axis cameras and accessories Generic repainting manual” (Document: 3486\_Repaint\_AXIS\_Generic.pdf).*

*This document informs the reader how to disassemble the product (as far as possible) and the sensitive areas that require attention.*

*Masking is a critical part of the process and should be completed professionally. Failure to mask sensitive areas could cause problems with assembling and function of the equipment.*

*All screw holes need to be masked before painting. Any areas that is not painted from factory or have a different surface treatment than the rest of the part (threads, ground and electrical contact surfaces) must also be masked to ensure function.*

*Always employ a professional to undertake the painting work. It is advisable to complete a single unit before painting a batch to ensure that the masking process is correct and that the finish is satisfactory.*

*Axis’ Warranty will not automatically be deemed void due to the disassembly and reassembly of Cameras; provided the following conditions are fulfilled (the list shall not be construed as an exhaustive list):*

- *The purpose for disassembling and reassembling the Cameras is repaint work only;*
- *The disassembling and reassembling is carried out in a professional and careful manner and does not intervene with normal operation of the Cameras.*

*Note that if the camera has a support problem and needs to be replaced, Axis will not repaint the camera.*

*Please note in conjunction to the above and when repainting: The performance of the Cameras may deteriorate due to the repainting according to the following (the list shall not be construed as an exhaustive list):*

- *Paint will add weight to the Cameras and speed and acceleration may be affected;*
- *Darker colors will absorb more sunlight and the relevant temperature specification of the Cameras may become limited;*
- *Increased friction in joints of the Cameras will increase strain and may affect the lifetime expectancy;*
- *Any paint used must be compatible (non-damaging) to plastics and glass;*
- *The Axis label with the product part number and serial number must be clear and legible at all times;*
- *Repainting may only be done to the casing and/or stand of the Cameras, under no circumstances may lenses be repainted;*

#### 2.1. Risks

There are several risks when disassembling an AXIS P144X network camera. There is always a certain yield loss during assembly. Training of operators and the use of correct tools will mediate some of the problems but they can never be fully avoided. Some of the risks are listed below:

- **ESD Damage.** When disassembling the camera there is a risk of ESD damage. Always handle the product in an ESD safe environment. Even if precautions are taken there is always a risk of ESD damage. The damage can remain undetected and cause problems during the lifetime of the camera.
- **Dust contamination.** Opening the camera exposes the lens to dust or paint; dust will affect the optical performance. The lens needs to be disassembled in a dust-free environment, preferably a cleanroom.
- **Paint overspray.** Masking of the different components of the camera is critical. Failure to mask sensitive areas could cause electrical, optical, temperature or grounding failures.
- **Material damage.** The paint composition could affect the substrate material especially polymers. The coating can possibly cause stresses and cracks in the material.

### 3. Disassembly instructions for AXIS P1445/47/48-LE camera

To repaint an AXIS P144X Network Camera, the camera must first be disassembled. Each part is then stripped from components and crucial parts are masked to ensure successful reassembly.

#### 3.1. Separate product outer parts:

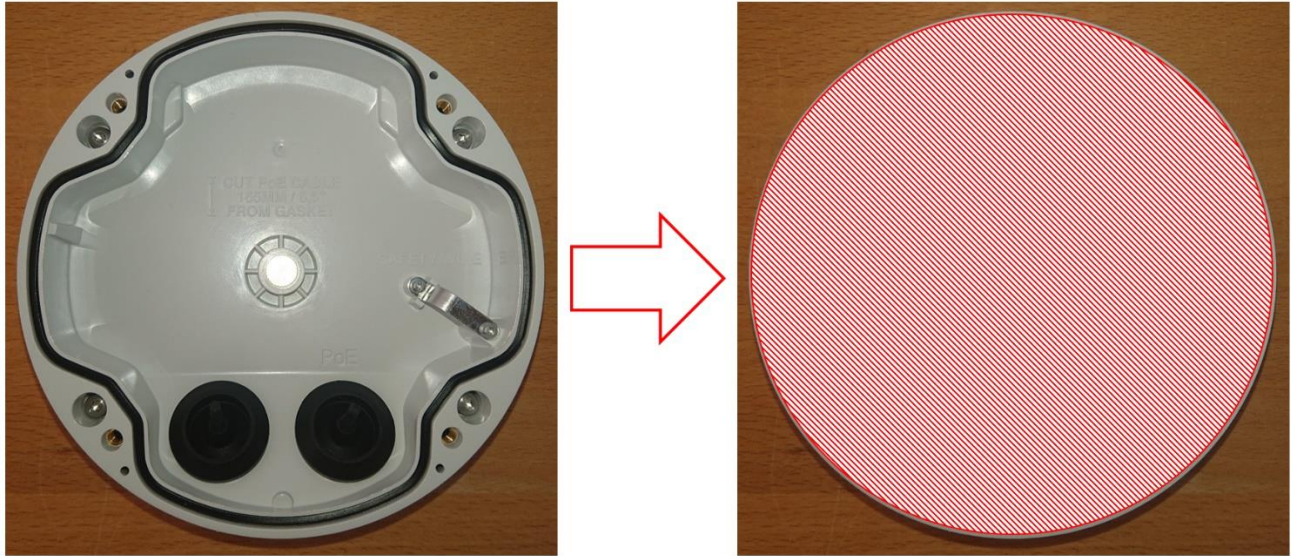
- 1) Remove the bottom base cover and the weather shield from camera unit.



### 3.2. Preparation of the bottom base cover:

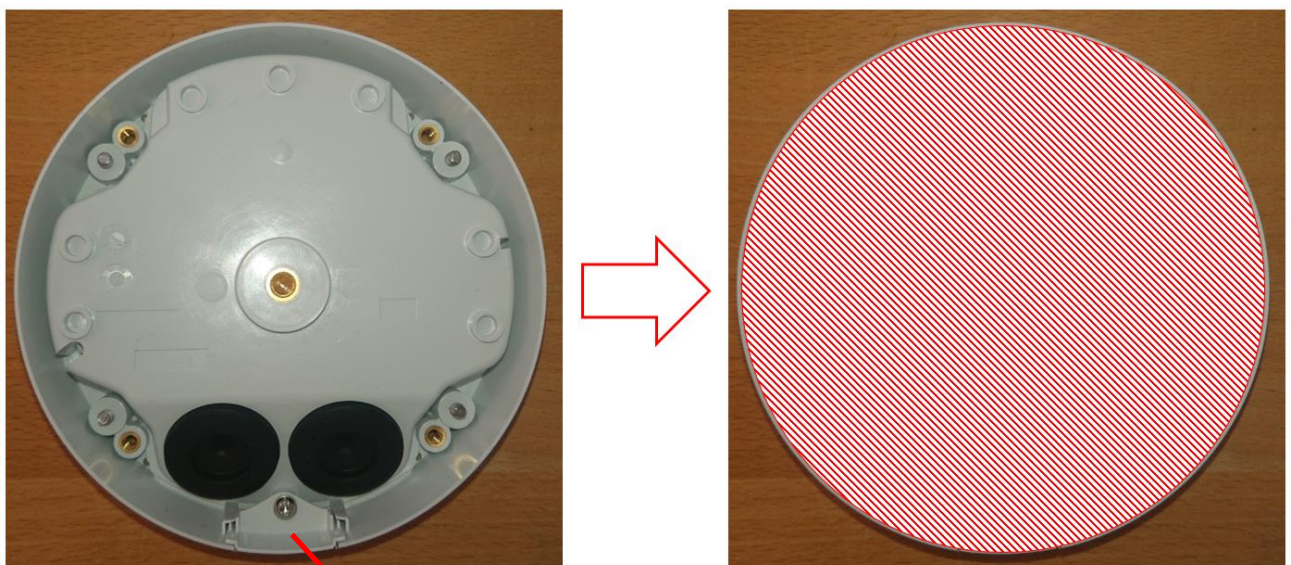
1) The top surface of the bottom base cover must be masked to ensure function of important features and screws and gaskets, enable unit being reassembled.

Mask the entire top surface area:



2) The bottom of the bottom base cover must be masked to ensure function of important features and screws and gaskets, enable unit being reassembled.

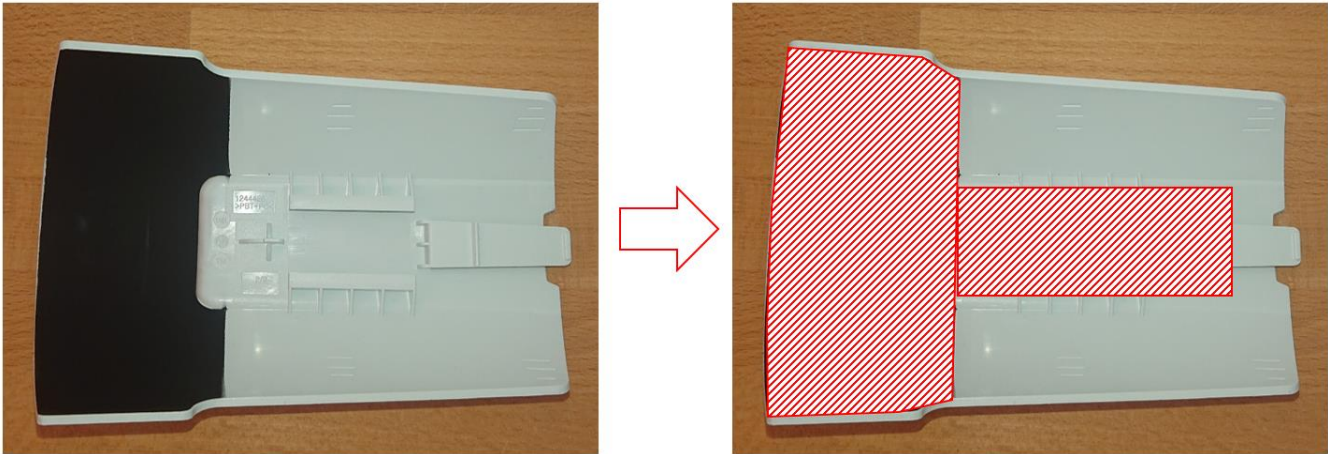
*Please note: Cable side entry lid may be painted separately to fulfil your need of function.*



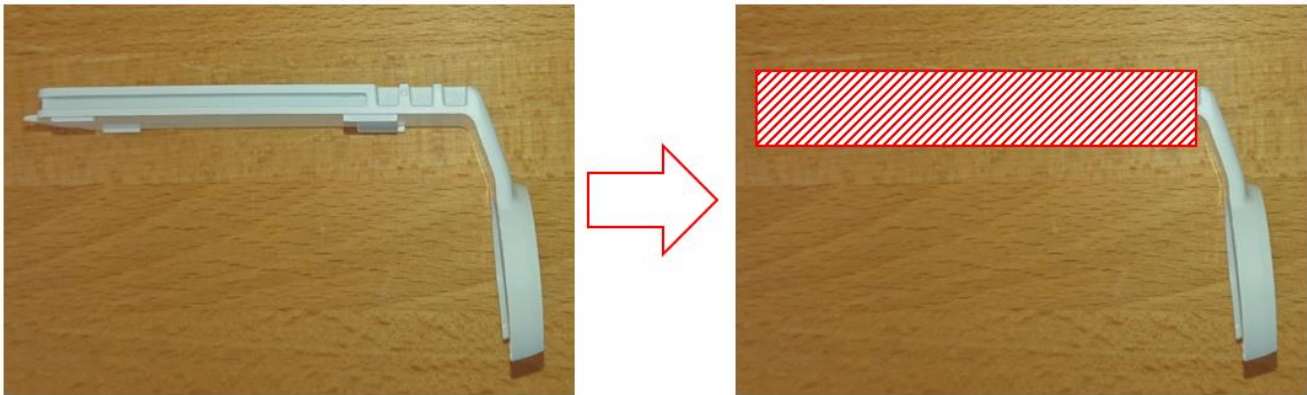
Cable side entry lid

**3.3. Preparation of the weather shield and its holder:**

1) Mask the black area and holder features inside of weather shield cover.

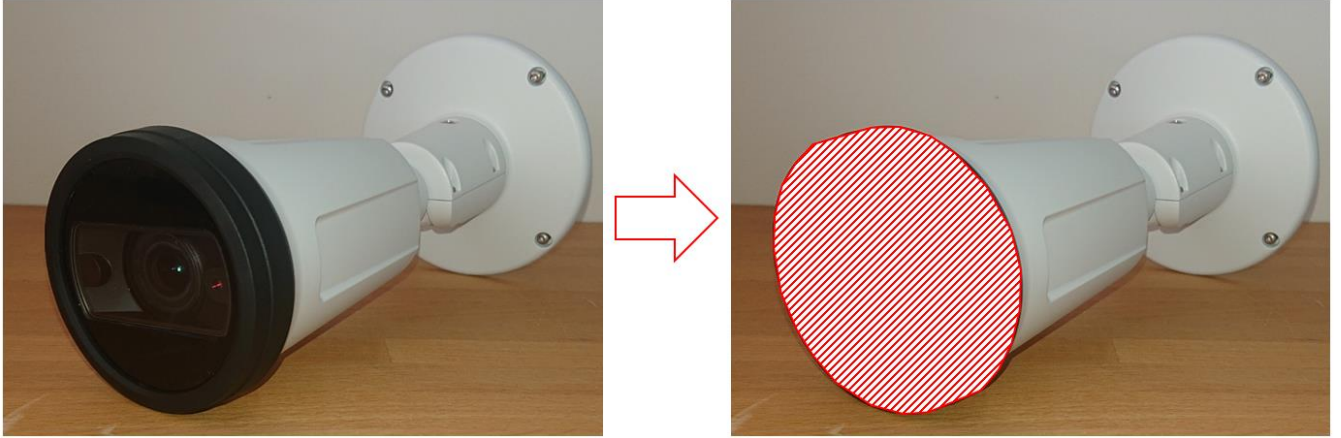


2) Mask the whole straight section of weather shield holder

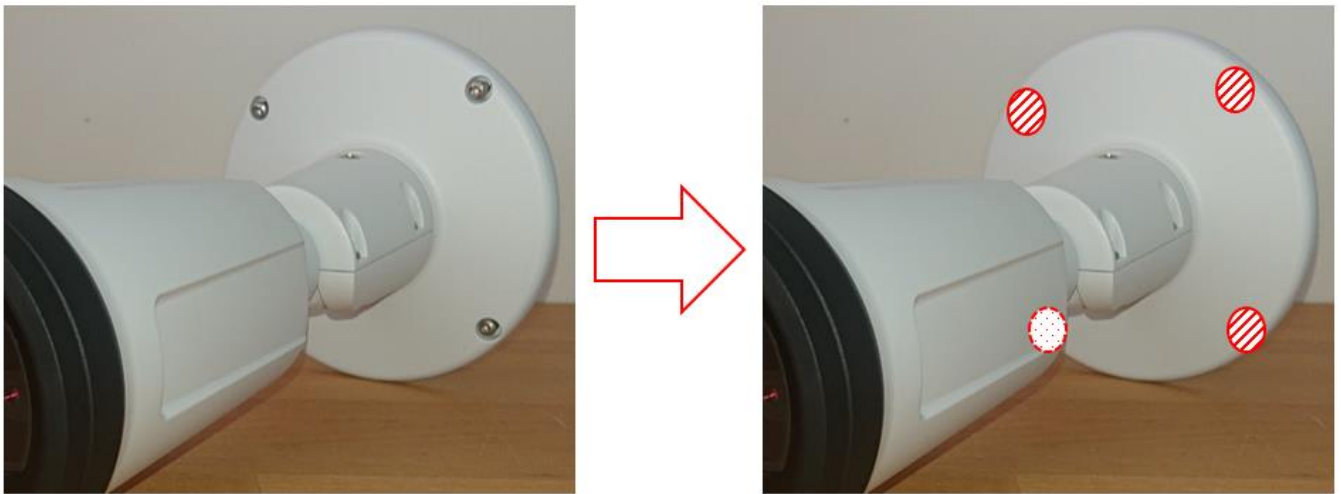


### 3.4. Preparation of the camera body:

1) The camera cannot be disassembled, so the germanium glass has to be masked in position. Mask the entire front window including the black ring.



2) Mask the 4x screws and screw holes in metal top



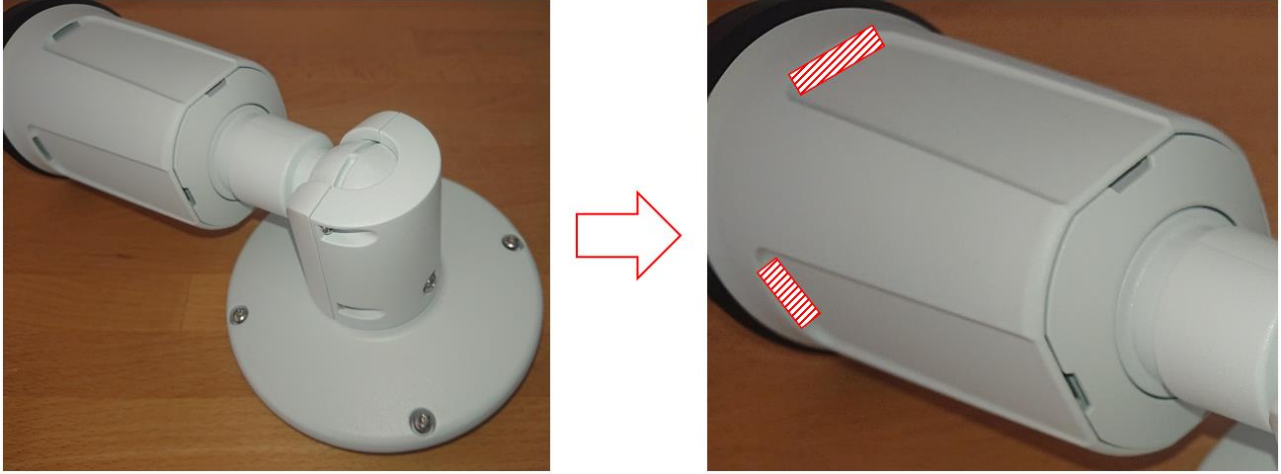


## AXIS P14 Series

### How to repaint the product

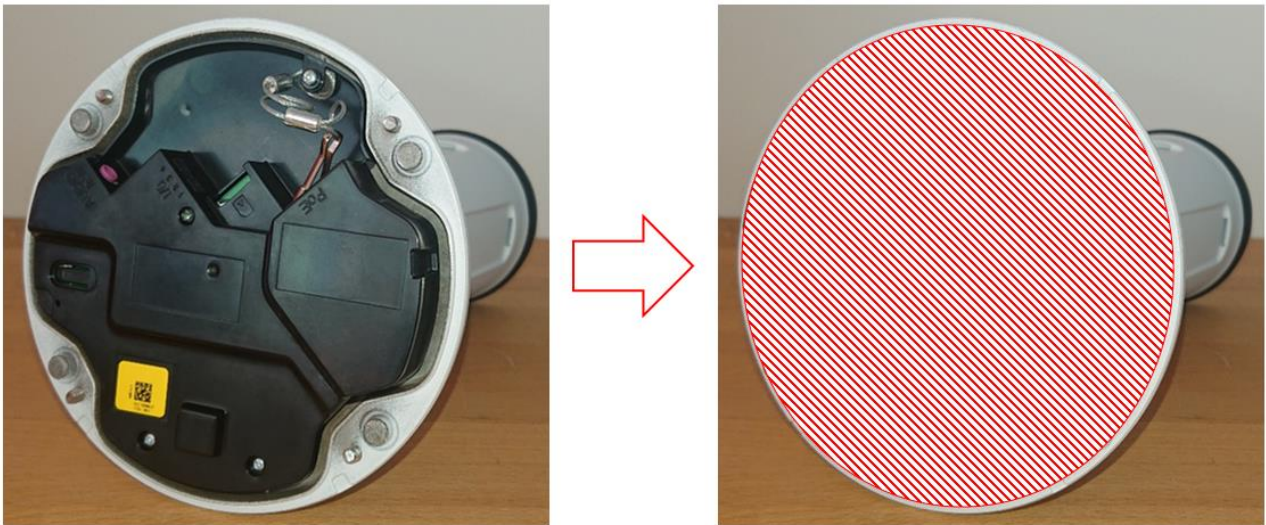
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3) Mask weather shield interface features.



4) Whole area of connectors must be masked to ensure function of important features and screws, enable unit being reassembled.

Mask the entire area:



## AXIS P14 Series

### How to repaint the product

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5) Disassembled camera arm section by remove the 5 screws.

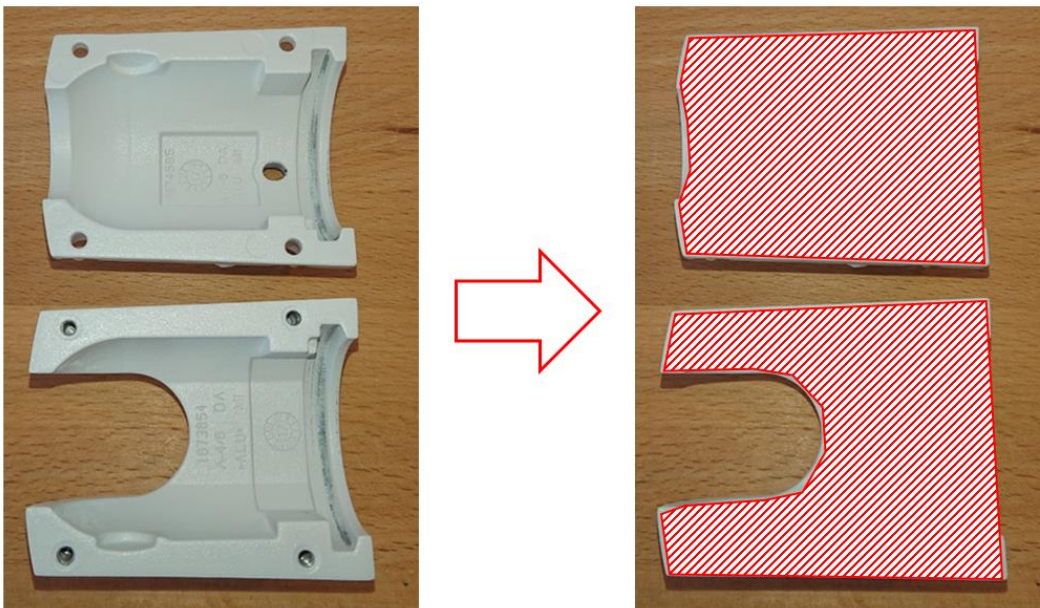
Please note: Keep control of the small metal pin inside arm that might come loose.

Please note: After disassembled internal cable inside the arm is exposed and easy to get damaged.

Damaged cable will affect camera functionality negatively.



6) Mask the metal arm covers.



7) Mask the inner parts and features of the arm.

**AXIS P14 Series**  
**How to repaint the product**

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