



## Swing Barrier Maintenance Instruction

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## **Maintenance Instruction**

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# 1. Introduction

## 1.1 Purpose of This Document

This document is written for Hikvision technical support, installers and end user. This document will introduce the basic idea of swing barrier's maintenance, to keep swing barrier work normally, avoid some improper operation which may damage device.

## 1.2 Applicable Device

All of Hikvision's Swing barrier are applicable.

## 2. Maintenance

### 2.1 Shell Maintenance(Rust protection and rust removal )

#### 2.1.1 Stainless Steel Material Introduction

304 stainless steel: The most common stainless steel, contains both chromium (between 18–20%) and nickel (between 8–10.5%) metals as the main non-iron constituents. 304 stainless steel has excellent resistance to a wide range of atmospheric environments and many corrosive media.

316 stainless steel: containing a significant amount of molybdenum, typically 2 to 3 percent by weight vs only trace amounts found in 304. The higher molybdenum content results in grade 316 possessing increased corrosion resistance.

Hikvision Swing barrier use 304 stainless steel by default.

Note:

1. Periodically clean device with non-woven fabrics and stainless steel detergent. Normally once a month. In some heavily polluted environment or marine applications, better to clean once a week.
2. If device is installed in some heavily polluted environment or marine applications, better to use 316 stainless steel instead.

#### 2.1.2 Rust Protection

##### 1、 Surface Cleaning:

Keep the surface in dry condition, then use non-woven fabrics and ethyl alcohol to clean surface. Wipe fabrics in the direction of brushed metal's lines.

##### 2、 Protection:

After cleaning the equipment shell, spray rust-proof oil (stainless steel maintenance agent) and wait 3-5 hours after natural air-drying, then the equipment shell can be touched.

##### 3、 Note:

- a) Do not use hard objects to scrub the appearance (such as steel ball). You must wipe back and forth along the direction of brushed metal's lines to avoid scratching the surface.
- b) It is forbidden to wash with water in order to avoid abnormal electrical control problem caused by water inflow.

### 2.1.3 Rust Removal



Figure 2-1

If rust occurs as shown in Figure 2-1 without maintenance, you can wipe non-woven fabrics back and forth along the direction of brushed metal's lines at the rust spots until it is removed. After cleaning, the rust-proof maintenance steps in 2.1.2 need to be implemented.。

## 2.2 Mechanical Maintenance

During the operation of the equipment, the vibration of the motor and the collision in use may lead to the loosening of the components or connectors, so it is necessary to regularly check and reinforce the equipment.

1. Check the moving parts of the equipment every three months to see if any parts are loose, to avoid malfunction caused by long-term operation.
2. Check equipment connection lines, connectors and connection points every three months to ensure reliable connection.

## 2.3 Dust Removal

Because the equipment is not completely sealed, it needs to be cleaned regularly when it is installed outdoors or in the scene with heavy dust.

1. Every three months, open the case cover and use soft brush to clean up the dust of the main control board and other components inside case.
2. Every three months, use soft brush to clean the dust on power switch.



It is strictly forbidden to wash with water.

## 2.4 Voltage Leakage Protection Check



Figure 2-3

Check leakage protection inspection monthly: Press the orange button circled in Figure 2-3, this power switch will turn off automatically , and then manually turn on the power to recover the device.

### 3. Notes

In the daily use of equipment, please pay attention to the following usage tips:

1. This product must be grounded reliably.
2. It is necessary to check and confirm that there are no potential safety hazards in the power supply before power-on the equipment.
3. In the process of self-inspection after equipment powers on, no person is allowed in the corridor.
4. When the equipment is powered on, it is strictly forbidden to impact, push and pull and kick the gate.
5. Equipment should be properly maintained. Striking and shaking of equipment is strictly forbidden.



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