8.2 Skirt Panels – Q 409 455

1 Description and Mode of Operation

The skirt panels (1) are those parts of the balustrade skirt facing the steps (2). They serve as lateral guides of the steps (guide pads (3)) in their advance track.

Due to the risk of accidents (wedging), the surfaces and joints of the skirt panels must be absolutely smooth. In order to reduce friction resistance, they are provided with a black antifriction coating.

The lower reinforcing C-profiles (4) of the skirt panels (1) serve as counterguides for the step chain rollers (5) (only in the inclined part of the escalator).

Fig. 455-01

1) Skirt panel
2) Step
3) Guide pad
4) C-profiles
5) Step chain roller
2 Maintenance

2.1 Checking the Lateral Play of the Steps

<table>
<thead>
<tr>
<th>Hint!</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required during commissioning and following a step crash</td>
</tr>
</tbody>
</table>

- According to EN 115, the gap (S) between the skirt panels (1) and the steps (2) must not exceed
  - 4 mm on one side;
  - a total of 7 mm on both sides.
- If required, correct displaced steps or readjust the skirt panels.

<table>
<thead>
<tr>
<th>Hint!</th>
</tr>
</thead>
<tbody>
<tr>
<td>When readjusting skirt panels, check the play between the guide pads (3) and the skirt panels (1): approx. 0.5-1 mm on each side</td>
</tr>
</tbody>
</table>

2.2 Cleaning

- Thoroughly clean the guideways of the guide pads (3) on the skirt panels (1).

<table>
<thead>
<tr>
<th>Hint!</th>
</tr>
</thead>
<tbody>
<tr>
<td>This is done from the step gap which is moved on bit by bit with the maintenance operating panel.</td>
</tr>
</tbody>
</table>

2.3 Lubrication

- Automatic lubrication:

  For more detailed information, see Maintenance Instructions Q 409 598, Guide Pad Lubrication (Lubrication Step)

- Manual lubrication:

  Apply a thin film of an adequate lubricant (see the following table) with a brush exclusively in the area of the gliding surface of the guide pads (3).

<table>
<thead>
<tr>
<th>BP</th>
<th>ESSO</th>
<th>KLÜBER</th>
<th>MOBIL</th>
<th>SHELL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energrease LS 3</td>
<td>Beacon 3</td>
<td>Klüberplex BEM 41-132</td>
<td>Mobilux EP2</td>
<td>Alvania R3</td>
</tr>
</tbody>
</table>
8.3 Skirt Contacts – Q 409 648

1 Description and Mode of Operation

In the area of the transition curves (both at the drive and tension stations) microswitches (1) are positioned at the back of the skirt panels (2) on both sides of the step band. If objects get caught between the steps and the skirt panels in these areas, the resulting deflection of the skirt panel causes the microswitch to switch off the escalator. The escalator is stopped before caught objects reach the combplate, which would result in more severe damage.

Fig. 648-01

1) Microswitch
2) Skirt panel
2 Maintenance

2.1 Functional Check

<table>
<thead>
<tr>
<th>Hint!</th>
</tr>
</thead>
<tbody>
<tr>
<td>Can be done with the maintenance operating panel</td>
</tr>
</tbody>
</table>

- Move the step gap into the area of the skirt contacts (1).
- Exert high pressure (40–50 kg) in the area of the contact to bend the skirt panel (2) to the outside. The contact (1) must be actuated.

Fig. 648-02

<table>
<thead>
<tr>
<th>Hint!</th>
</tr>
</thead>
<tbody>
<tr>
<td>It is useful to know the exact position of the skirt contacts (e.g. distance between the contact and the tips of the comb teeth, distance between the skirt panel joint and the contact).</td>
</tr>
</tbody>
</table>

- Error codes:
  - "E_12" for left contact at drive station
  - "E_1F" for left contact at tension station
  - "E_E0" for right contact at drive station
  - "E_E0" for right contact at tension station

<table>
<thead>
<tr>
<th>Hint!</th>
</tr>
</thead>
<tbody>
<tr>
<td>It is not necessary to reset the contact, since the microswitch is self-resetting.</td>
</tr>
</tbody>
</table>
2.2 Adjusting the Contact

Fig. 648-03

- Use the V-30394 gage to adjust the distance between the contact housing and the skirt panel to 6.2 mm.
8.4 Step Upthrust Contacts – Q 409 709

1 Description and Mode of Operation

The step upthrust contacts are mounted in the track block of the tension station (1) and the track block of the drive station (2). This contact disconnects the escalator as soon as a step is lifted due to an external impact when leaving the incline and entering the transition curve.

When the step is lifted, the step hook (3) is pressed against the upthrust arm (5) which is prestressed with a compression spring (4). When the force increases, the upthrust arm and the contact (6) mounted on the upthrust arm are lifted against the spring force. The release bracket (9) actuates the contact and the escalator is shut down.
1) Track block, tension station
2) Track block, drive station
3) Step hook
4) Compression spring
5) Upthrust arm
6) Contact
7) Mounting bracket for contact
8) Setscrew
9) Release bracket
2 Maintenance

2.1 Functional Check

- Run the step gap into the area of the step upthrust contact.
- Lift the upthrust arm (5) by hand. The contact (6) must be activated, and it should not be possible to start the escalator.

Error codes:
"E_1D" for step upthrust contact, top right
"E_7B" for step upthrust contact, top left
"E_88" for step upthrust contact, bottom left
"E_D8" for step upthrust contact, bottom right

<table>
<thead>
<tr>
<th>Hint!</th>
</tr>
</thead>
<tbody>
<tr>
<td>The compressed length of the spring (4) should measure 18 mm. The spring can be readjusted by means of the setscrew (8).</td>
</tr>
</tbody>
</table>

2.2 Contact Setting

- The contact (6) should abut the release bracket (9) without play.

Fig. 709-02

2.3 Lubrication

- Lubricate the compression spring (4) and the drilled hole of the upthrust arm (5) (see Fig. 709-02).