

MC9000ex – Series

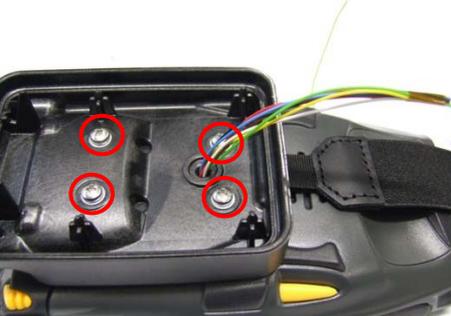
Mobile Computer MC92NOex

RFID

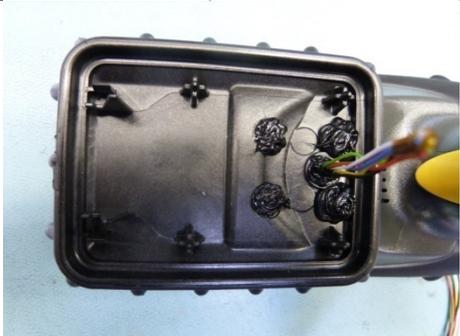


1. Assembly Housing

1.1 BRICK

1)		<p>Drill 7 holes (1,0mm) and 4 holes (5,5mm) with the fixture in the lower housing. Press 4 inserts into the big holes.</p>
2)		<p>Lead the 7 wires (each with different colour) through the drillings. (LiY 0.08mm², d_{iso} > 0.2mm)</p>
3)		<p>Fill the RFID upper housing with Sikaflex as shown in the picture.</p>
4)		<p>Fix the RFID lower housing with 4 screws and 4 washers on the housing.</p>
5)		<p>Seal the screw heads and the wire openings with Sikaflex.</p>

1.2 GUN

1)		<p>Drill 7 holes (1,0mm) and 4 holes (5,5mm) with the fixture in the lower housing. Press 4 inserts into the big holes. Lead the 7 wires (each with different colour) through the drillings. (LiY 0.08mm², d_{iso} > 0.2mm)</p>
2)		<p>Fill the RFID upper housing with Sikaflex as shown in the picture.</p>
3)		<p>Fix the RFID lower housing with 4 screws and 4 washers on the top housing.</p>
4)		<p>Seal the screw heads and the wire openings with Sikaflex.</p>

2. Installation RFID Reader (GUN/BRICK)

2.1 LF-Reader

1)		<p>Insert the LF reader into the upper housing. Solder appropriate wires on the LF board as shown in the picture and fix them with UV-glue. Apply Sikaflex in the sealing area of the housing.</p>
2)		<p>Put the RFID lower housing on the upper housing and press them together.</p>
3)		<p>Apply the opening of the lower housing with Sikaflex.</p>
4)		<p>Lock the opening with the according cover.</p>

2.2 HF-Reader

1)		<p>Insert the HF reader (HF board, HF antenna and HF UHF interface) into the upper housing. Solder appropriate wires on the HF board as shown in the picture and fix them with UV-glue. Apply Sikaflex in the sealing area of the housing.</p>
2)		<p>Put the RFID lower housing on the upper housing and press them together.</p>
3)		<p>Fill the resin into the RFID housing (without empty space) and apply the opening of the lower housing with Sikaflex</p>
4)		<p>Lock the opening with the according cover.</p>

2.3 UHF-Reader

1)	 A photograph showing a green printed circuit board (PCB) with various electronic components, including a large chip and several connectors, mounted inside a black plastic housing. The board is secured with yellow wires.	<p>Insert the UHF reader into the upper housing. Solder appropriate wires on the UHF board as shown in the picture and fix them with UV-glue. Apply Sikaflex in the sealing area of the housing.</p>
2)	 A photograph of a grey plastic component, identified as the RFID lower housing, which has a complex, multi-lobed shape with several protrusions and recesses.	<p>Put the RFID lower housing on the upper housing and press them together.</p>
3)	 A close-up photograph of the grey plastic housing, showing a square opening in the center. The opening is filled with a dark, viscous substance, likely resin or Sikaflex, used for sealing.	<p>Fill the resin into the RFID housing (without empty space) and apply the opening of the lower housing with Sikaflex</p>
4)	 A close-up photograph of the grey plastic housing, showing the square opening from the previous step. A small, rectangular cover is being applied to the opening, locking it in place.	<p>Lock the opening with the according cover.</p>

2.4 UHF-Reader with external antenna

<p>1)</p>		<p>Apply the appropriate plate on the RFID lower housing.</p>
<p>2)</p>		<p>Lead cable of the external antenna through the opening of the RFID lower housing.</p>
<p>3)</p>		<p>Fix the RFID lower housing and external antenna with 4 washers and 4 screws.</p>
<p>4)</p>		<p>Seal the screw heads and antenna cable passage with Sikaflex.</p>
<p>5)</p>		<p>Position the UHF Reader on the according pins and fix it with Sikaflex. Apply Sikaflex in the sealing area of the housing.</p>

6)		<p>Connect the antenna connector with the UHF reader as shown in the picture and fix it with UV-glue. Secure the connector with Sikaflex.</p>
7)		<p>Put the RFID lower housing on the upper housing and press them together.</p>
8)		<p>Fill the resin into the RFID housing (without empty space) and apply the opening of the lower housing with Sikaflex</p>
9)		<p>Lock the opening with the according cover.</p>

3. Close Housing

3.1 BRICK

1)		Lay the top housing on the bottom housing and slide it in the way of the arrow.
2)		Also for the external antenna versions!

3.2 GUN

1)		Lay the top housing on the bottom housing and slide it in the way of the arrow.
2)		Also for the external antenna versions!