

# Repair instruction T68, Electrical

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# 1 Explanations

For component placing see doc.1078-2/FEA 209 544/50.

The Go / No Go test has to be performed with a mounted phone.

## 1.1 Service functions in the software

In the software of the phone there is a built in service function that allows testing some of the functions of the phone.

They are as follows:

1. Service info
2. Service settings
3. Service tests
4. Text labels

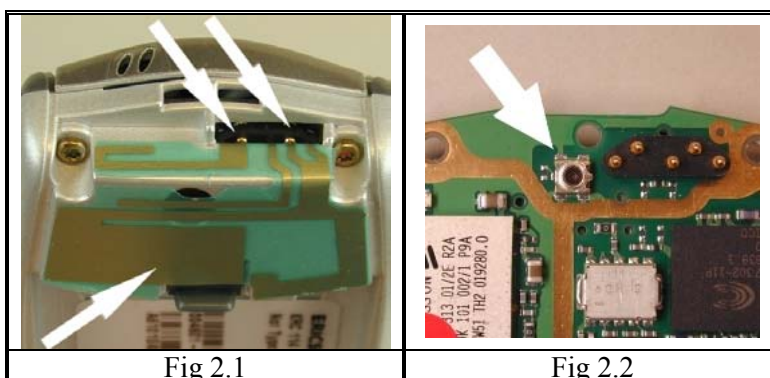
To use the functions press the following combination on the keyboard:

► \* ◀ ◀ \* ◀ \*

# 2 Network Problems

- Check that the antenna flex film is properly fitting and undamaged. (Fig.2.1).
- If necessary replace the antenna flex film.
- Check that the antenna switch *J001* (Fig.2.2) not is incorrectly soldered, mechanically damaged, dirty or oxidised. Measure the resistance trough the antenna switch, it should be less than 1  $\Omega$ , do not press down the antenna switch when measuring. Clean or re-solder it if needed.

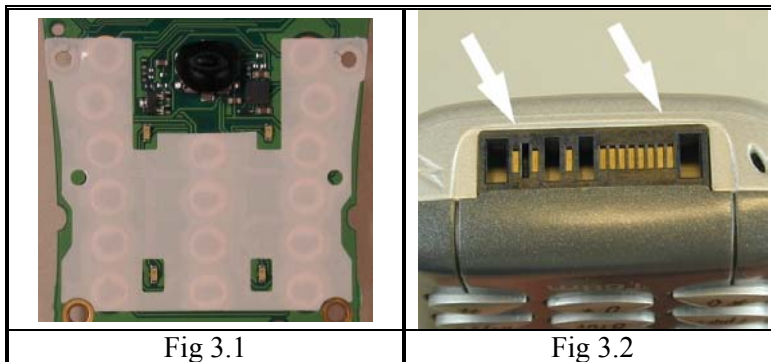
If the fault still remains, handle the unit according to the local company directives.



### 3 On/Off Problems

- Check the flex-film for malfunction (*Fig.3.1*).  
If necessary replace it.
- Check that the system connector (*Fig.3.2*) not is incorrectly soldered, mechanically damaged, dirty or oxidised.  
If necessary replace it.

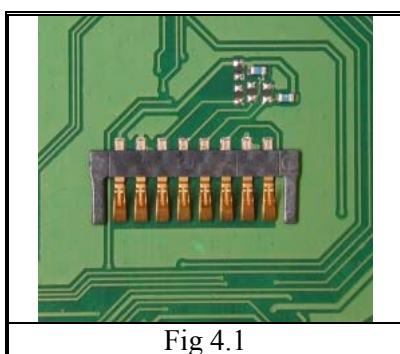
If the fault still remains, handle the unit according to the local company directives.



### 4 Display/Illumination Problems

- If there is problem with the Display function or the Display illumination check that the LCD-connector *H623* (*Fig 4.1*) not is incorrectly soldered, mechanically damaged, dirty or oxidised.  
If necessary replace it.

If the fault still remains, handle the unit according to the local company directives.



## 5 Capacity/Charging Problems

- Check that the system connector (*Fig.5.1*) not is incorrectly soldered, mechanically damaged, dirty or oxidised.  
If necessary replace it.

If the fault still remains, handle the unit according to the local company directives.

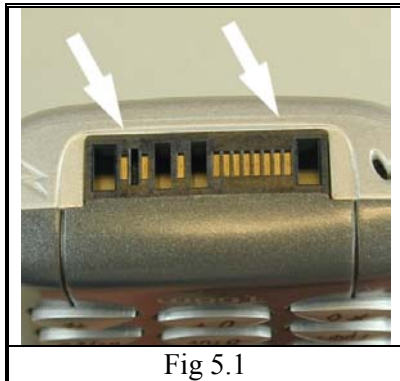


Fig 5.1

## 6 Key/Joystick Problems

- Use the Service Test menu, choose **Keyboard**.
- Make sure if it is the Keyboard or the Joystick that causes the problem.
- If it is the Keyboard that cause the problem, replace the flex film. (*Fig.6.1*).
- If it is the Joystick that cause the problem, check that *S50* (*Fig.6.2*) not is incorrectly soldered, mechanically damaged, dirty or oxidised.  
Clean, re-solder or replace it if needed.

If the fault still remains, handle the unit according to the local company directives.

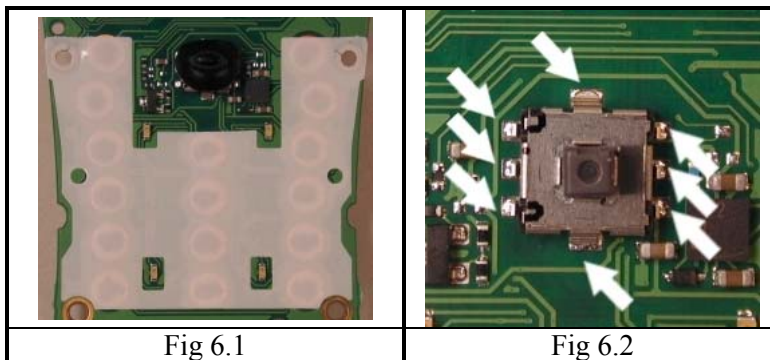


Fig 6.1

Fig 6.2

## 7 Alert Problems

- Use the Service Test menu, choose **Buzzer**.
- Activate the buzzer using the joystick.  
If it sounds low or distorted open the phone and inspect the buzzer (H600) and the buzzer gasket.  
Check the buzzer (*Fig. 7.1*) for faulty soldering joints.  
If necessary change the buzzer and the buzzer gasket.

If the fault still remains, handle the unit according to the local company directives.

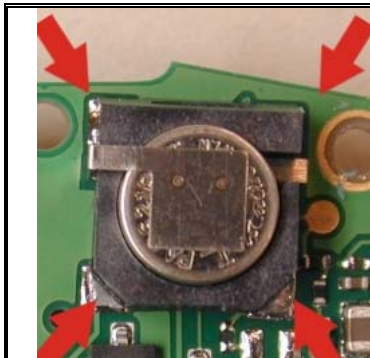


Fig 7.1

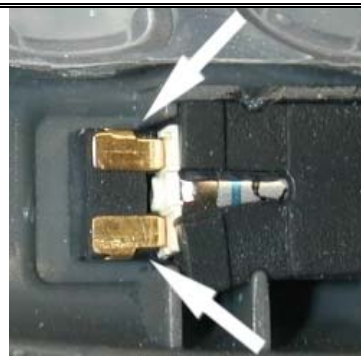


Fig 7.2

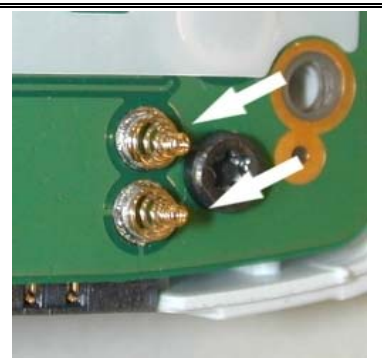


Fig 7.3

- Use the Service Test menu, choose **Vibrator**.
- Activate the vibrator using the joystick.  
If it does not vibrate, open the phone and inspect the vibrator (H623) (*Fig. 7.2*) and the connector springs at the board (*Fig. 7.3*).  
If necessary change the vibrator.

If the fault still remains, handle the unit according to the local company directives.

## 8 Data Communication Problems

- If the customer complains about data communication problem with the Digital camera, MP3 player or AM/FM receiver, check that the system connector (*Fig. 8.1*) not is incorrectly soldered, mechanically damaged, dirty or oxidised.  
If necessary replace it.

If the fault still remains, handle the unit according to the local company directives.

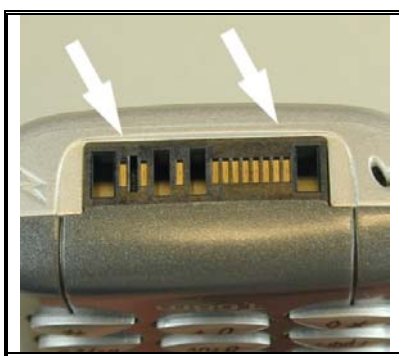


Fig 8.1

## 9 Software Problems

- If there are problems with the response of the key board commands and/ or spelling errors in the menu, that are not related to mechanical damage, make a master reset and flash the phone with the latest soft ware from EMMA II.
- Checking the software revision can be done in the Service info, see chapter *Service functions in the software*.  
Chose: Service info / SW information.  
The Software revision and date will be shown in the display.

If the fault still remains, handle the unit according to the local company directives.

## 10 Revision History

Rev.	Date	Changes / Comments
PA1	2001-06-12	First draft
A	2001-08-16	Title changed from Troubleshooting guide to Repair instruction.