



# Technical Info

## **Installation instruction for GPRS Modem in SILVERBALL Beetle and Beetle PRO**



**T A B**

**A U S T R I A**

Industrie- und Unterhaltungs-  
elektronik GmbH & CoKG



## Installation instruction for GPRS Modem in SILVERBALL Beetle und Beetle PRO

In order to operate the machine with GPRS modem correctly, please follow the instructions below:

1. Order numbers for Beetle und Beetle PRO
2. Wiring and connecting of interface to PC
3. Wiring and connecting of power source
4. Installation and connecting of modem
5. Software installation

**IMPORTANT:**

Before working on the machine **switch off** the machine and **disconnect the power cable**.

### 1. Order numbers for Beetle und Beetle PRO

You can order GPRS add-on kit or single parts .

GPRS add-on kit:

831800082 GPRS add-on kit SILVERBALL Beetle

The GPRS add-on kit contains the following single parts:

831800056 PC GPRS modem Siemens MC35T  
831800061 Inner glass antenna 900/1800  
831800064 Cable SB-Beetle GPRS modem serial 9pol.  
831800063 Cable Power GPRS modem





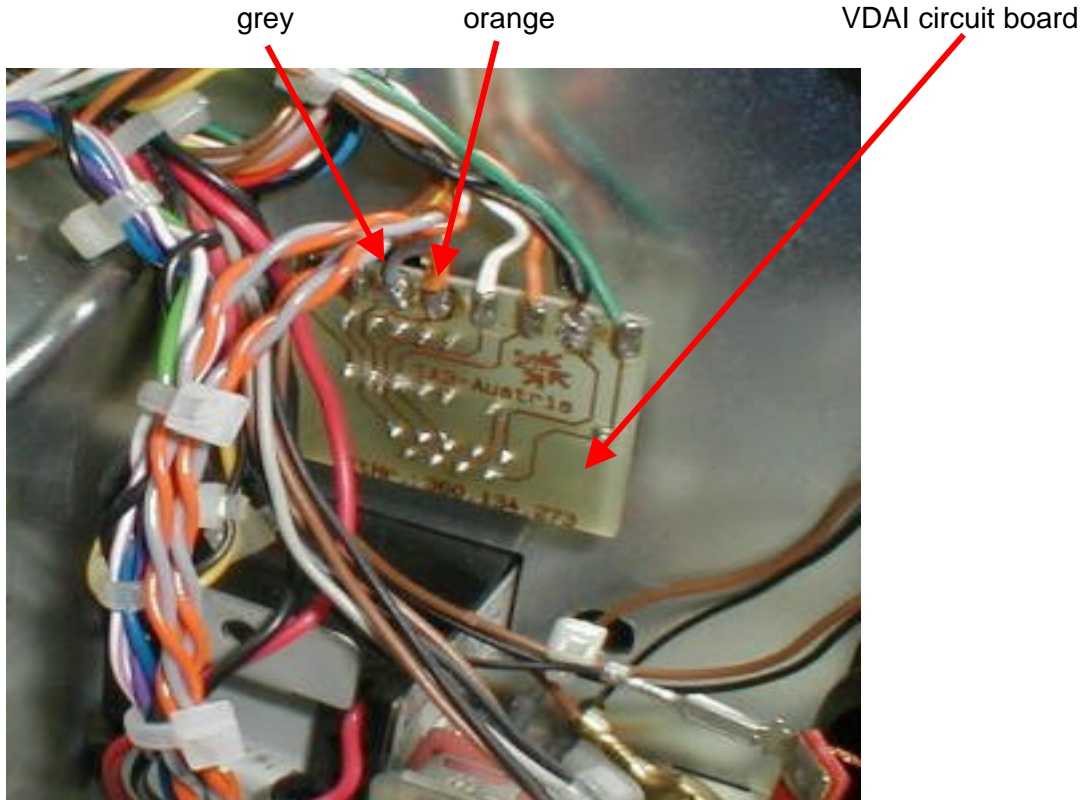
## 2. Wiring and connecting of interface to PC

Connect the 9 pol. Sub-D connector to the modem and the other end to the VDAI circuit board (Part number. 360134273) and to the 25 pol. Sub-D socket (Picture 2). Solder the cables according to the following solder plan.

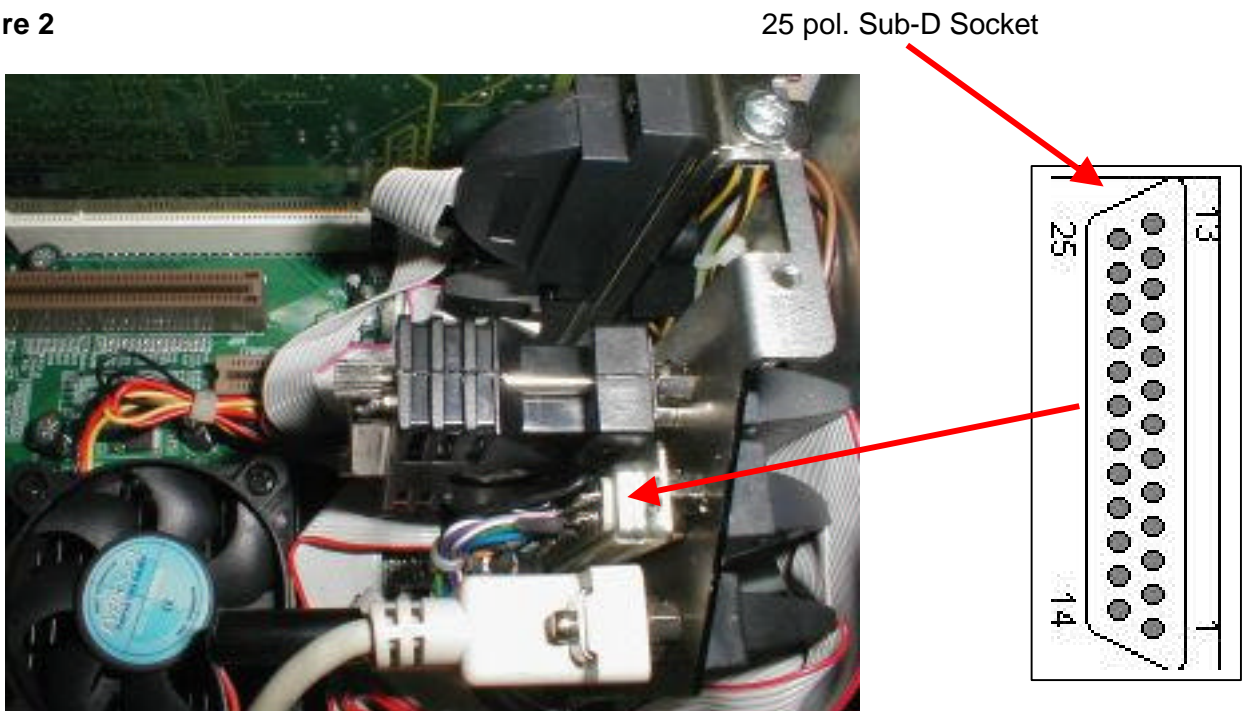
Solder plan						
X1: Sub-D Connector 9 pol.			to	VDAI circuit board		Note
PIN	colour	Description		wire connection	description	picture
2	grey	9-pol Sub-D		3	wiring	1
3	orange	9-pol Sub-D		4	wiring	1
X1: Sub-D Connector 9 pol.			to	25-pol-Sub-D Socket		Note
PIN	colour	description		PIN	description	picture
1	pu/white	9-pol Sub-D		8	wiring	2
4	blue	9-pol Sub-D		20	wiring	2
5	black	9-pol Sub-D		housing	wiring	2
6	purple	9-pol Sub-D		6	wiring	2
7	white	9-pol Sub-D		4	wiring	2
8	green	9-pol Sub-D		5	wiring	2



Picture 1



Picture 2



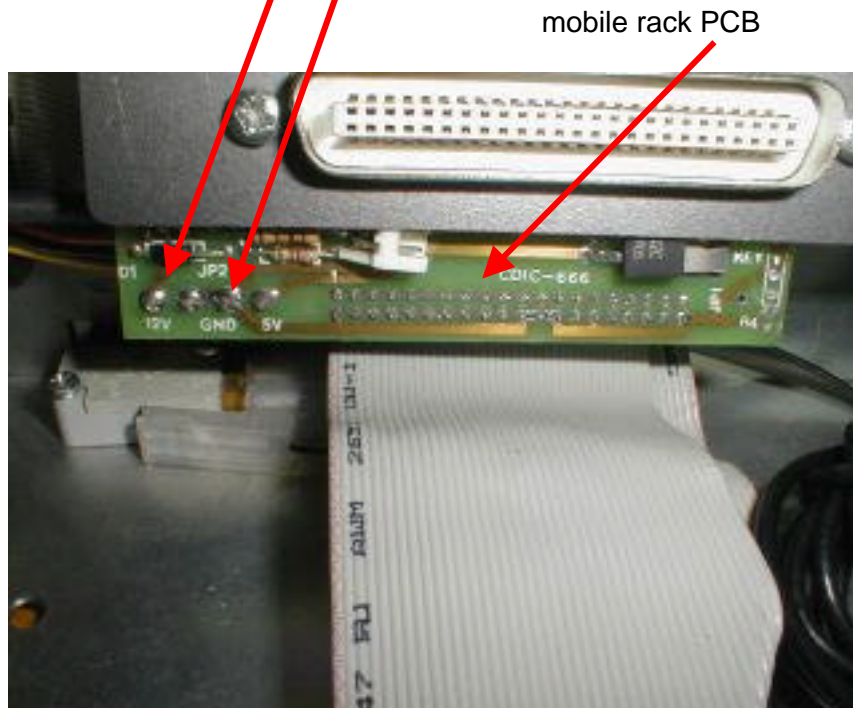
### 3. Wiring and connecting of power source

The modem works with +12V DC (standard).

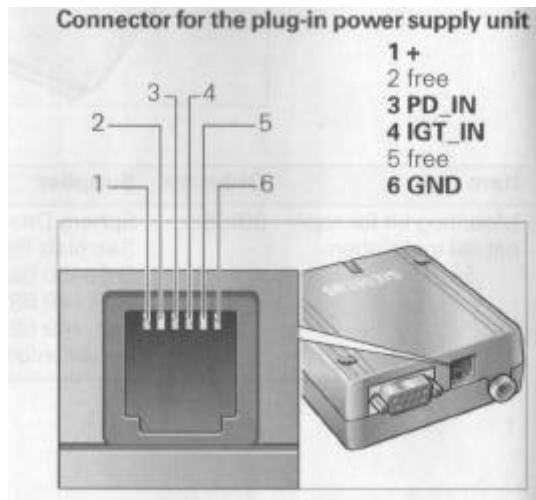
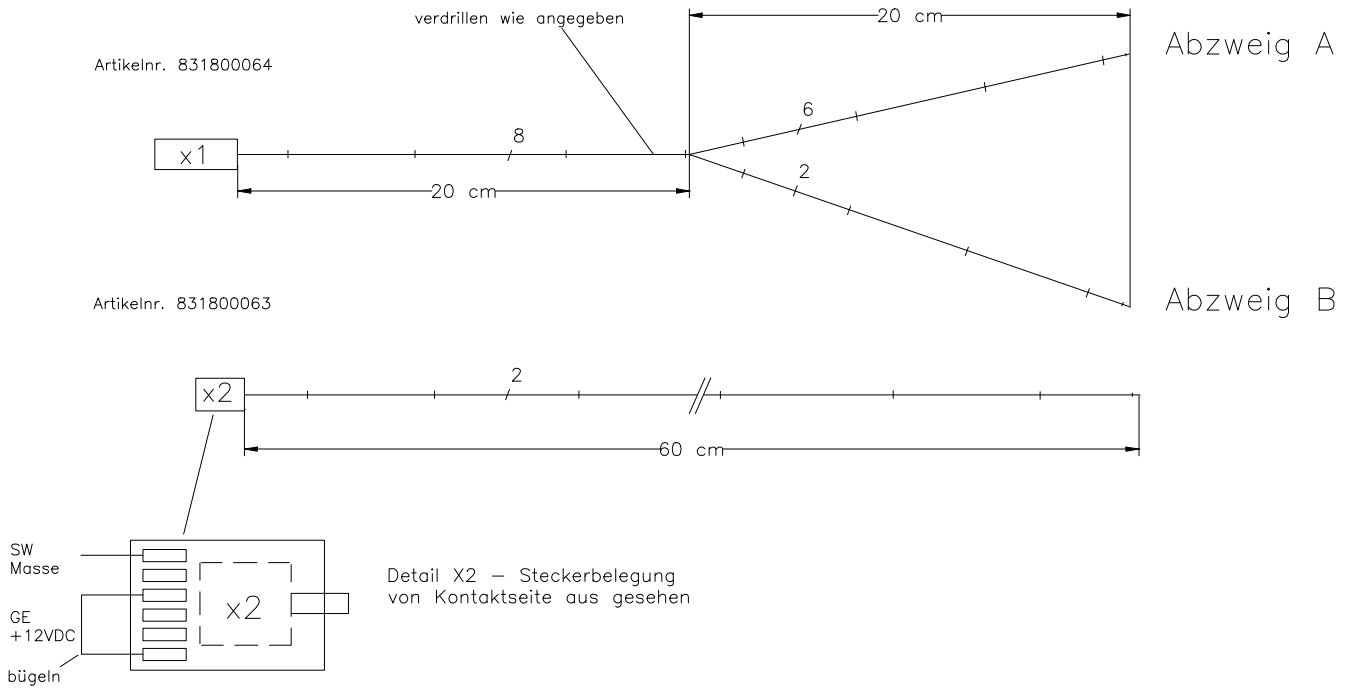
Solder the power cable (2pol.) to +12V DC and GND according to the following solder plan.

Solder plan						
X2:Westernconnector 6 pol.			to	Power source		Note
PIN	colour	description		colour	description	picture
	yellow	Western con. 6-pol.		yellow	12V DC on mobile rack PCB	3
	black	Western con. 6-pol.		black	Ground on mobile rack PCB	3

Picture 3



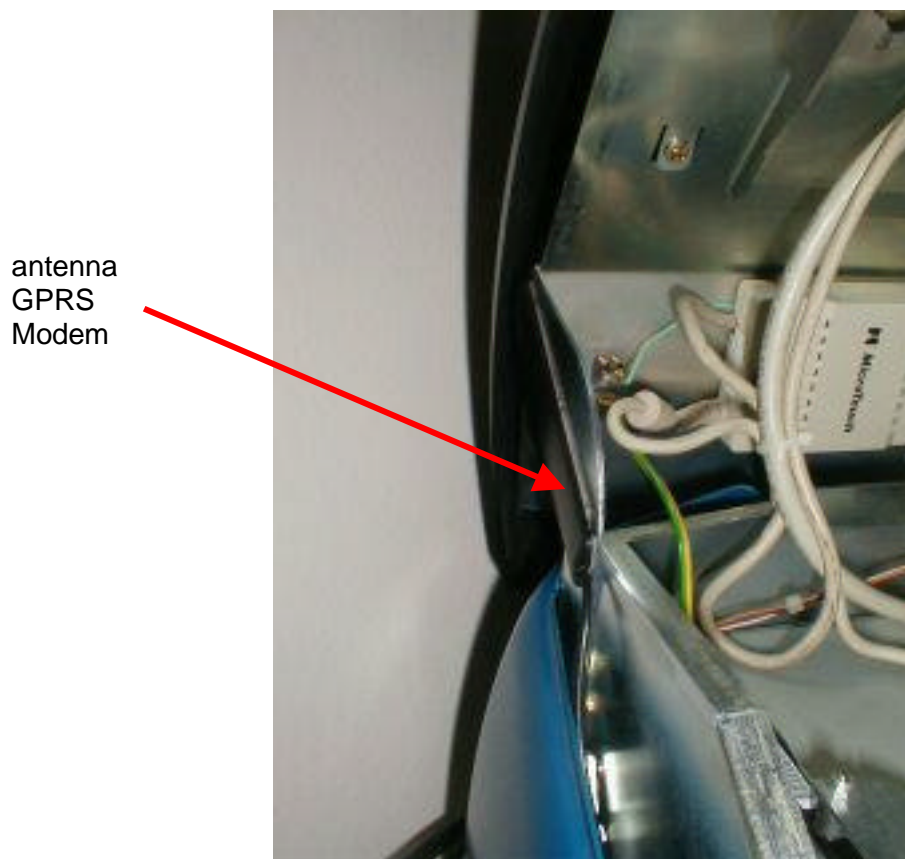
**Power for the GPRS Modem:**



#### 4. Installation and connection of modem

Connect the power cable (western connector) and the modem cable (9-pol. Sub-D) to the modem. Screw in the antenna in the antenna socket. The antenna should be fixed outside of the metal chassis. We suggest to fix it like shown in 'Picture 4'. The signal quality of the modem depends on where the antenna will be fixed. You can test the signal quality in the testmode menu of the software installation. GPRS signal quality (picture 7) identifies best signal quality.

**Picture 4**



Fix the modem with a screw (M3) to the base plate of the machine.



## 5. Software installation

After the modem installation switch on the machine and change to the testmode.

Picture 5

<b>Machine/Set-up site</b>		
Machine number	11673	
Name of the establishment	TDO	
Place/Town	Büro TD	
Address	Adress	
Telephone number	Telefon	
Fax number	Fax	
Email	Email	
Country	Austria	
<input type="button" value="change"/>		
<b>Connection (Modem)</b>		
Telephone number	*99***1#	
User name	gprs@a1plus.at	
Time	19:00	
<input type="button" value="change"/>		
<input type="button" value="Test connection"/>	<input type="button" value="Protocol"/>	<b>ChampionsNet</b>
<input type="button" value="Register ..."/>	<input type="button" value="Email"/>	<input checked="" type="checkbox"/> activate
<input type="button" value="Receive datas"/>	<input type="button" value="WWW"/>	<input type="button" value="Help"/>
		<input type="button" value="Back"/>

At menu point 'ChampionsNet' connection (modem) change (picture 5) the settings can be changed.





Picture 6

<b>Provider connection</b>		
Telephone number	<input type="text" value="*99***1#"/> <input type="button" value="change"/>	
User name	<input type="text" value="gprs@a1plus.at"/> <input type="button" value="change"/>	
Password	<input type="text"/> <input type="button" value="change"/>	
Confirmation	<input type="text"/> <input type="button" value="change"/>	
<b>Start of transmission</b>		
<input checked="" type="radio"/> Hour	<input type="radio"/> Minute	<input type="button" value="+"/>
19	00	<input type="button" value="--"/>
<b>Connection Type</b>		
<input type="radio"/> Modem		
<input checked="" type="radio"/> External Modem		
<input type="checkbox"/> Permanent Connection		
<input type="button" value="GPRS/GSM..."/> <input type="button" value="Page 2..."/>		
<input type="button" value="Back"/>		

Enter the provider connection data (e.g. Picture 6 shows the provider connection of Mobilkom Austria).

Change the connection type to external modem.

Picture 6: Code not needed for connection via Mobilkom Austria.

**Attention:** The provider connection data (calling number; username; code; confirmation) are depending on the provider (e.g. Picture 6 shows provider connection data of Mobilkom Austria). Contact your net provider for the correct settings.





Picture 7

**GSM Signal Quality**

rssi: 37  
dBm: -73

**PIN & PUK**

Enter PIN...

Erase

PIN set

Enter PUK...

Erase

no PUK

**Modem**

Init String: `at+cgdcont=1,"ip","a1.net"`

change

Back

At menu point 'GPRS/GSM' (picture 7) enter the PIN/PUK code for the SIM-card. At point 'modem' enter the correct Init string.

For example: Init String: `at+cgdcont=1,"IP","a1.net"` for Mobilkom Austria.

**Attention:** The PIN/PUK Code is different for every SIM card. The Init string is different for every net provider. Contact your net provider about the correct settings.

**INFO:** The function interlink is no more available after the modem installation.

After finishing the modem installation you can test the connection (picture 5).

If you have any questions, please call our hotline:

**Phone: +43 / 72 29 / 78 0 40 – ext. 250**

