Service Manual

HCP Mechare

Content

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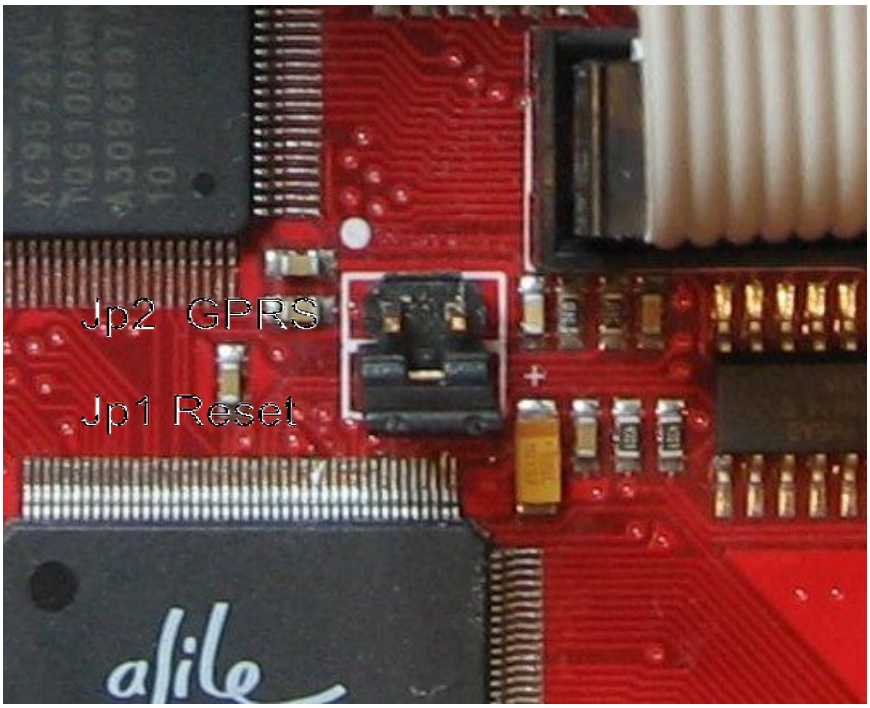
Service Jumpers

In order to access cash register service modes 2 jumpers shown on the picture below are used.

For reset mode it is necessary to put the jumper in position **Jp1** (Picture below).



JP1 and JP2 jumpers on cash register board

After putting jumper in position **Jp1** (reset mode), it's necessary to restart fiscal cash register. If the message "**Reset**" is displayed, jumper should be removed. After pressing the key "**MENU**", "**HCP MECHARE**" message will appear with undefined time. Pressing the keys "**Roll UP**" and "**DOWN**", you can choose one of the two options, to select TEST or SERVICE mode.

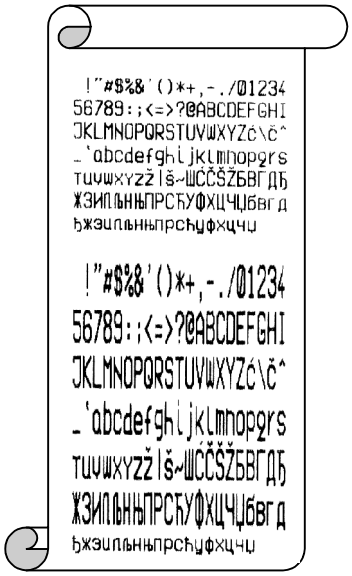
Menu 4 – TESTING

Basic keys for handling through this menu are **Roll UP** and **DOWN.** These **keys** enable handling options between sub menus.

Keys **PLU/BAR** (**SUBTOTAL,TOTAL**) have confirmation functions in all sub menus. There's faster way to enter menus using numerical keyboard (shortcuts).

4.1 – Test Printer

Printer testing starts by choosing „**TEST PRINTER**", submenu and pressing one of the keys for confirmation. In this operation, printer will be printing all letters and symbols from memory (small and capital letters, Cyrillic and Latin alphabet, numbers and characters) on both paper rolls.



4.2 - Test Display

Displays testing starts by choosing „**TEST DISPLAYS**“ submenu and pressing one of the keys for confirmation **PLU/BAR (SUBTOTAL,TOTAL**). Test is standard for this type of displays. Test is starting with switching off/on backlights, writing out zeroes and eights, and writing out in full cells with characters.

4.3 - Test Keyboard

Keyboard testing starts by choosing „**TEST KEYBOARD**“ submenu and pressing one of the keys for confirmation **PLU/BAR** (**SUBTOTAL,TOTAL**). For testing, press keys and check what is written on display. Exceptions are keys “**C**“ and “**MENU**”. By pressing key “**C**”, register returns to the previous menu “**4.3 - Test Keyboard**”, and by pressing key “**MENU**” to main menu.

4.4 - Test Fiscal Memory

Fiscal Memory testing starts by choosing „**TEST FISCAL MEMORY**“ submenu and pressing one of the keys for confirmation **PLU/BAR** (**SUBTOTAL, TOTAL**). If test doesn’t fail, text (“**Test Successful**”) will be written on display and audio signal will indicate the end of test.

4.5 - Test RAM

Operative Memory testing starts by choosing „**TEST RAM**“ submenu and pressing one of the keys for confirmation **PLU/BAR** (**SUBTOTAL, TOTAL**). Display shows test progress in percentage (**%**). Time of testing is approximately 4s, if test fail’s, text on display will verify success and audio signal will indicate end of test.

4.6 - Test GPRS modem

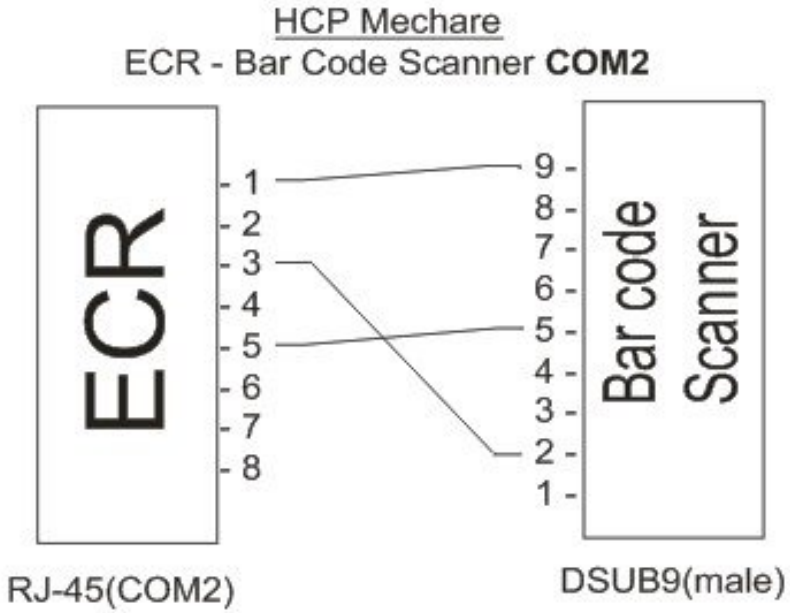
This will test GPRS Modem and print the results. It should print signal value, network and IMSI number (SIM card number). If it's not something is wrong with modem.

4.7 - Test Sound Signal

Testing Sound Signal is indicated with short, screeching audio signals.

4.8 - Test Bar code reader

Before test start, check if barcode reader is correctly plugged in and adjusted (by manufacturer or previous user). Test by using barcode reader. Proper barcode should be printed on the register. Confirm test by comparing the original barcode and printed one. Always use adapter cable.



Bar code reader needs to be set. Every type has its own configuration given by manufacturer's direction. Barcodes are adapted to country standards, so pay attention to following:

- BAUD Rate – 9600,8,N,1;
- Disable RTS/CTS Handshaking;
- Transmit EAN 13 Check Digits;
- Convert EAN-8 to EAN-13.

For ***Metrologic*** Scanners these are default settings. For others please check first.

4.9 - Test Cash Drawer opening

Before the test starts, check if drawer is correctly plugged into device. After that, press one of the keys for confirmation **PLU/BAR** (**SUBTOTAL, TOTAL**).

Menu 5 - SERVICE

In service there are 3 submenus available.

5.1 Date and time settings

This menu is used to set time and date in the cash register. Device accepts the date and time only if it's chronologicaly after last printed Z report or Reset. Set up date first. Confirm with keys **PLU/BAR** (**SUBTOTAL,TOTAL**). After setting current time, date and time will be printed on the register.

Then press PLU/bar ⇨ PLU BAR for confirmation

This will put the register in mode - **RESET**.

Note: If time is set by PC, pay attention to Regional and Language settings. If setting is not appropriate, time will not be adjusted correctly

Set up valid date and time and confirm. Confirmation of time and date adjustment is followed by **DEVICE RESET**.

5.2 Reset device

HCP devices support two types of resets (C, P).

Reset P erase's RAM but the PLU base stays.

Reset C deletes all of the settings including PLU base.

Pressing one of the keys **UP** and **DOWN** choose one of offered resets (jumper must be removed from Jp1 position, or warning will be displayed, and the operation will not be executed). Confirm with key **PLU/BAR**. When **Device Reset** process is finished, register prints the reset data. Now shut off and turn on the machine, restart it.

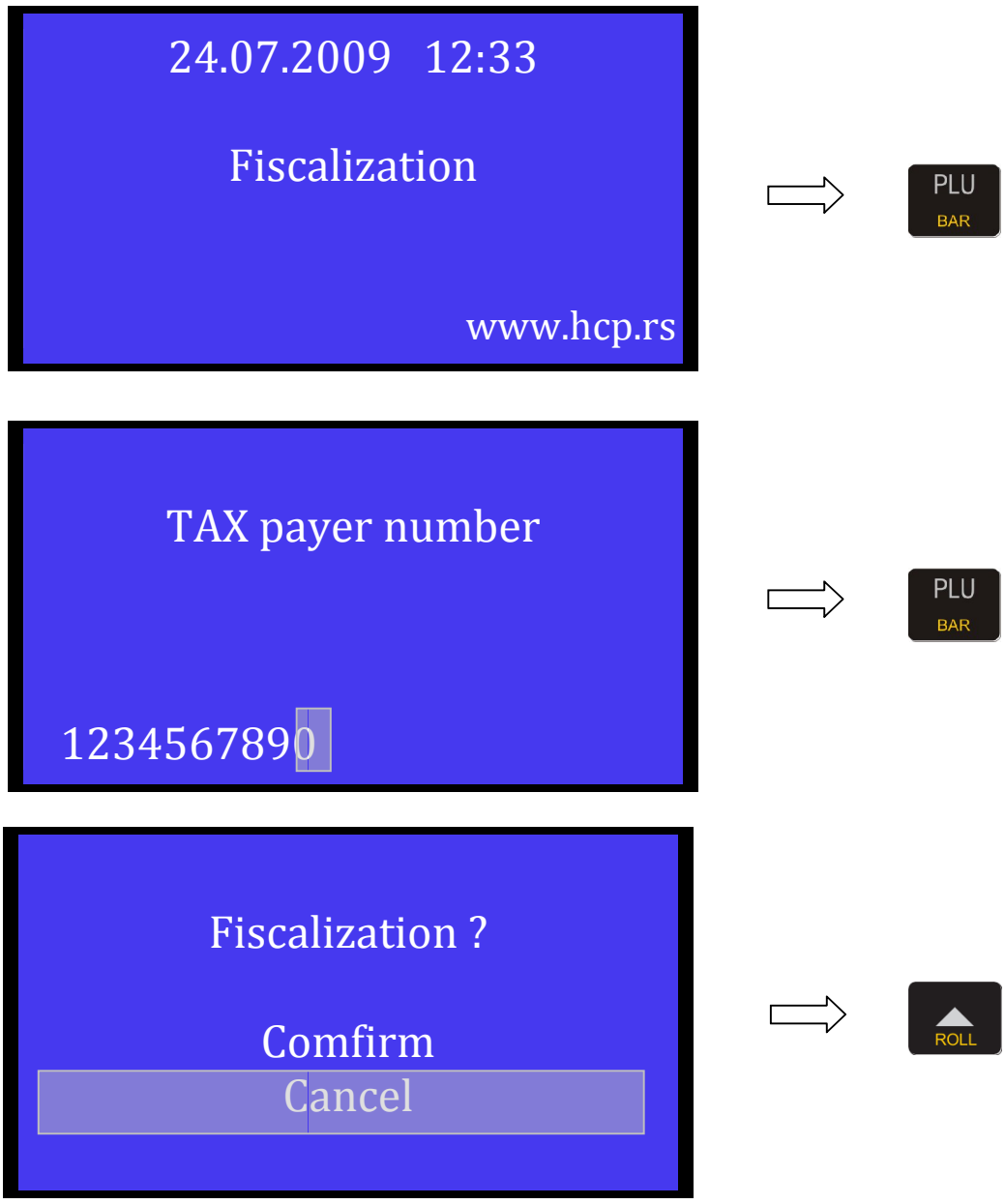
After this procedure fiscal cash register is ready to use!

Reset receipt contains information regarding reset type, time and date of reset and the number of remaining resets.

NOTE: If the RESET OF THE MODEM along with standard reset is needed, both of the jumpers (JP1 and JP2) must be on the place, and after restart it appears "Reset GPRS" that will also be printed.
That can be also done from the program using the "Reset command" in the menu GPRS. In that case must be putted jumper JP2. After that restart register.
After that command for the FTP will be "All" Z reports.

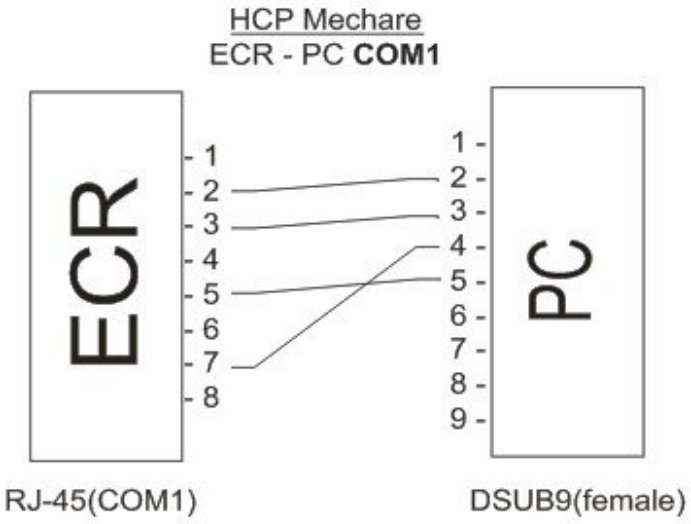
5.3 Fiscalization

Fiscalization menu is accessible only with unfiscalized device. If the device is fiscalized than this menu is not available.



When message „**FISCALIZATION**“ is displayed, carefully enter user tax payer number TIN. After confirmation Cash ID and tax payer number will be printed. Tax payer number also will be displayed and, if they match, comfirm it and fiscalization process is finished. After this shut off and turn on the machine to restart it.

It is possible to execute fiscalization by using the PC software. Connect PC and cash register over RS232 standard serial port:

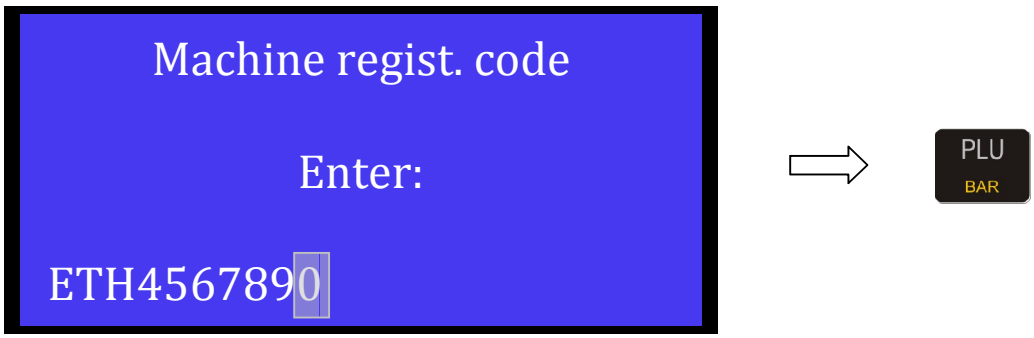


First, in submenu **“Tools“,** check communication with device, by selecting appropriate port on the PC, baud rate is set automatically to standard 115200. After pressing button **“TEST“,** reply will be displayed. Next, adjust time by pressing button **“set time“** in submenu **“Fiscalization“**. After this, if reply is OK, press button **“fiscalize“** and dialog with field to enter tax payer number will appear. Enter tax payer number and confirm on OK button and the process is finished.

Note: After fiscalization, in order to achieve minimum functionality, it is necessary to set vats and header. After that customer can proceed with PLU base upload.

Menu 6 – Machine Registration Code

Before any using of the machine the MRC has be entered first. It appears on the display when the fiscal memory is blank and not before used. It contains three letters characters and seven other characters are numbers to be entered. It must be entered manually on the register by typing. After confirmation it will be printed on the tape.

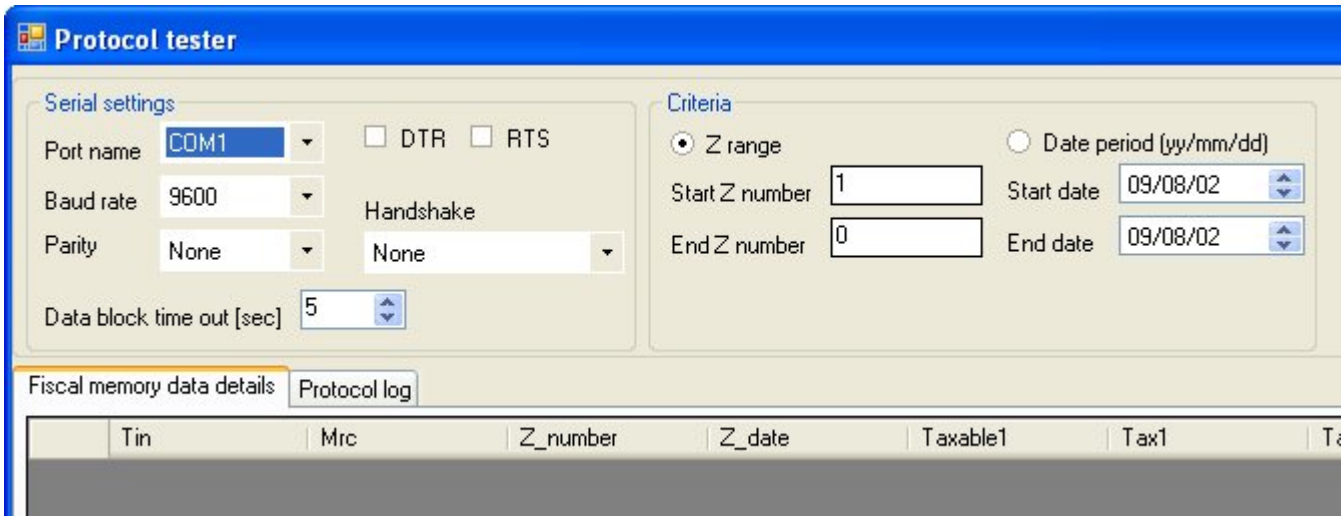


After register restarts, proceed with the menus 4 – Testing and 5 – Service.

Using the Protocol tester program

The protocol tester program allows us to read the fiscal data from the register using the COM2 port, in case of the register's GPRS modem doesn't work or is pulled out.

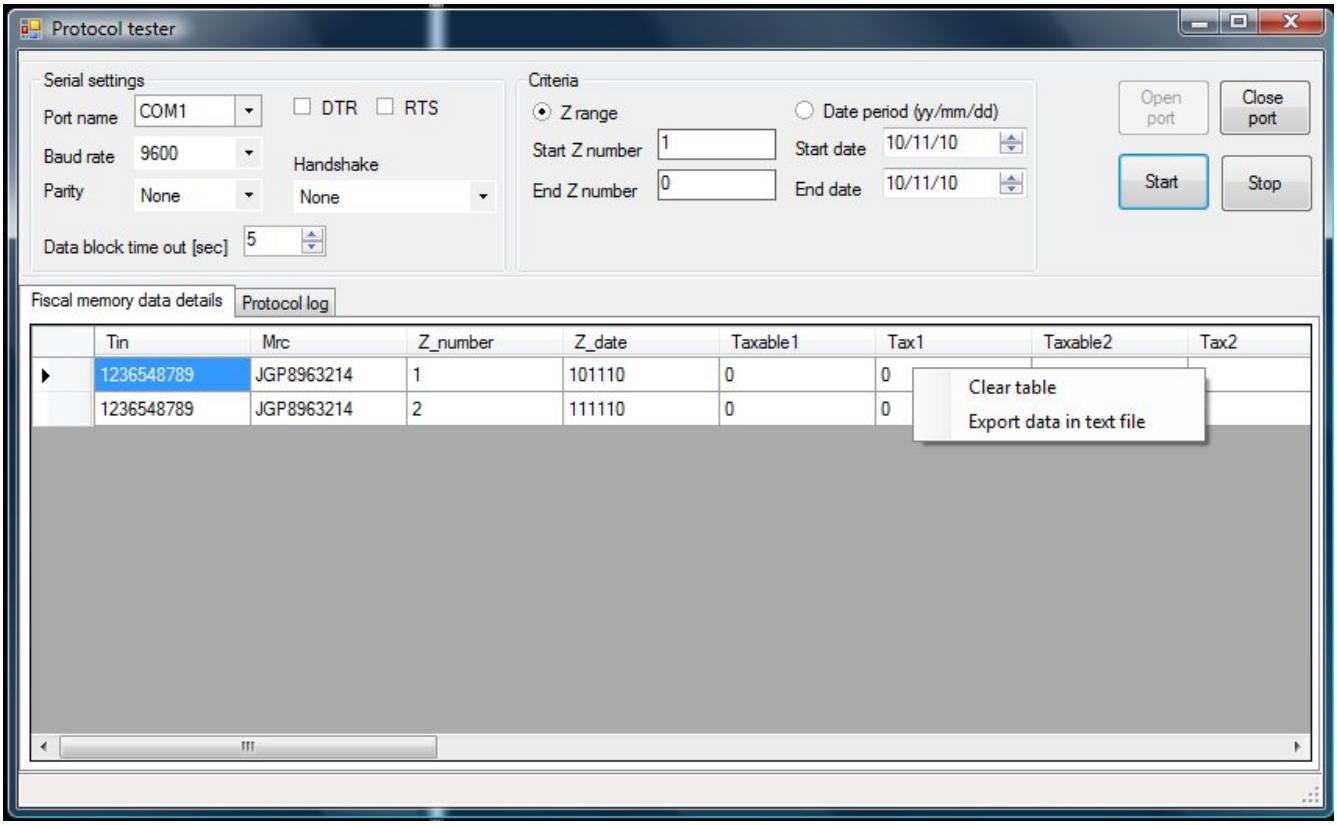
For this purpose use the same cable as for PC communication cable, but instead plugging into COM1 port of the register put it in the COM2.



Comport should be set to port of the PC and the baud rate to 9600 because it is the baud rate of COM2 port of the Cash register.

After configuring ports and Z range, click on "Open port",wait few seconds and then "Start".

After this, list of generated Z reports should be shown below like it is on the picture.



After reading, right click on table and choose **Export data in text file**. This file you can then burn to CD.

If reading doesn't start, try to turn on and off the machine, or the program restart.