INTERFACE

Lode Bicycle Ergometers – Labtech EC-12 R/S

STEP I Setting up the hardware

1. You will need the RS-232 cable (part no. 930911) to establish communication between the Lode cycle ergometer and your stress system. The lay-out of the cable is as follows:

Straight RS232 cable 930911		
D-con 9 pin female		D-con 9 pin male
2 RxD	----------	2 TxD
3 TxD	----------	3 RxD
5 GND	----------	5 GND

2. Connect the RS232 cable to the ergometer *(see picture 1).*
3. Connect the RS232 cable to the Labtech EC-12 R/S *(see picture 2).*

STEP II Setting-up the ergometer

4. Switch on the ergometer

   The Corival ergometer is default shipped with the LODE RS232 communication protocol. It should be set to the LODE RS232 protocol
   You can change the RS232 by following the procedure:
   - Switch on the ergometer and press enter.
   - You will be in the "MAIN MENU"
   - Select, by using the up/down keys, the menu "SYSTEM PARAMETER" and press enter
   - Select, by using the up/down keys, the menu "SETTINGS" and press enter
   - Select, by using the up/down keys, the menu "RS232 PROTOCOL" and press enter
   - Select, by using the up/down keys, the "LODE PROTOCOL" and press enter.
   - Save the selected RS232 protocol or restore the default RS232 protocol, which is also the LODE PROTOCOL.
   - Switch off the ergometer.

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5. For controlling the ergometer by the Labtech EC-12 R/S, the ergometer should be set in "TERMINAL" mode. The "TERMINAL" mode should be selected as follows. After switching the ergometer on, press enter, select "TERMINAL" and press enter again.

   NOTE: You can also let the ergometer start-up in "TERMINAL" mode every time you switch on the ergometer, by using the default start menu. To set up the ergometer for starting up in “TERMINAL” mode proceed as follows:
   - Switch on the ergometer and press enter
   - You will be in the "MAIN MENU"
   - Select, by using the up/down keys, the menu "SYSTEM PARAMETER" and press enter
   - Select, by using the up/down keys, the menu "SETTINGS" and press enter
   - Press enter to confirm the menu “DEFAULTSTARTMENU”
   - Select “TERMINAL “ and press enter
   - You will be asked to save the changes confirm with “YES”
   - If you switch off the ergometer, it will start-up in the “TERMINAL” mode, every time when the ergometer is switched on again

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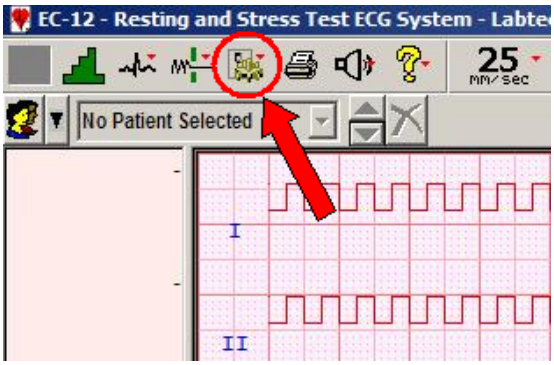
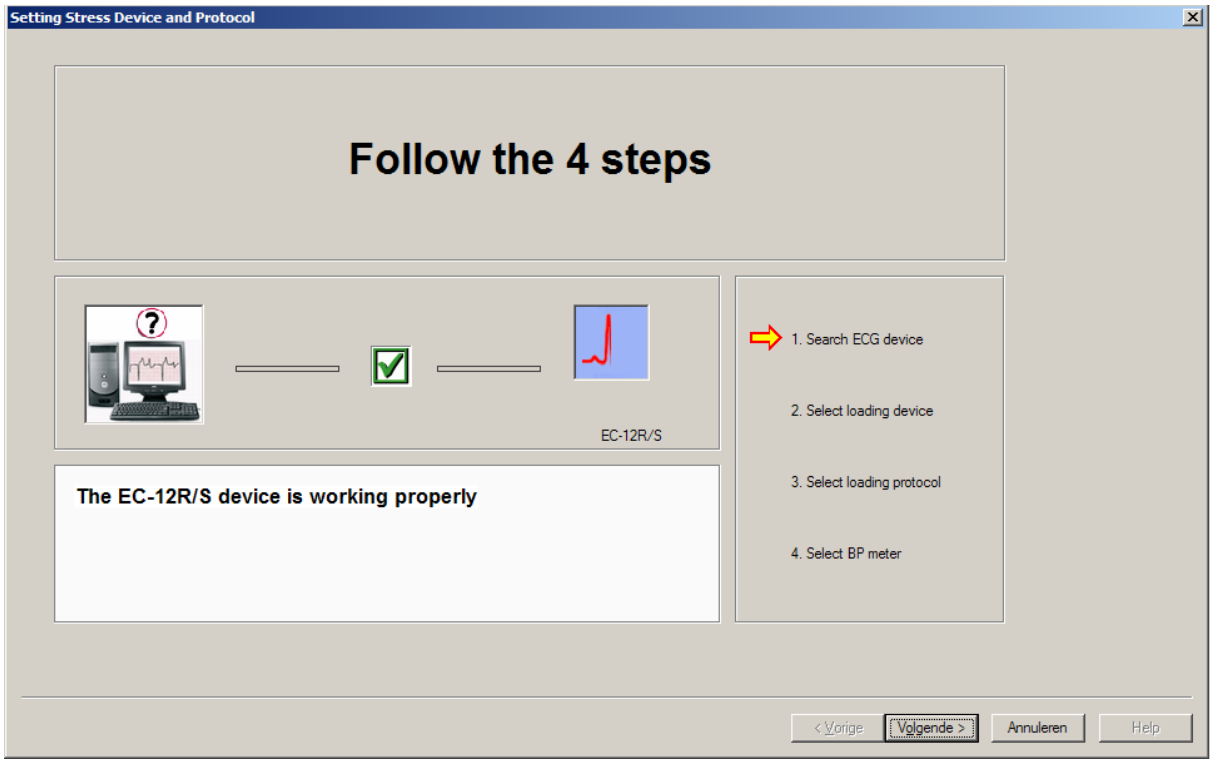
STEP III	Setting up the Labtech EC-12 R/S

6. Turn on the PC and start the program
7. Select “Settings” icon



8. The following window will appear



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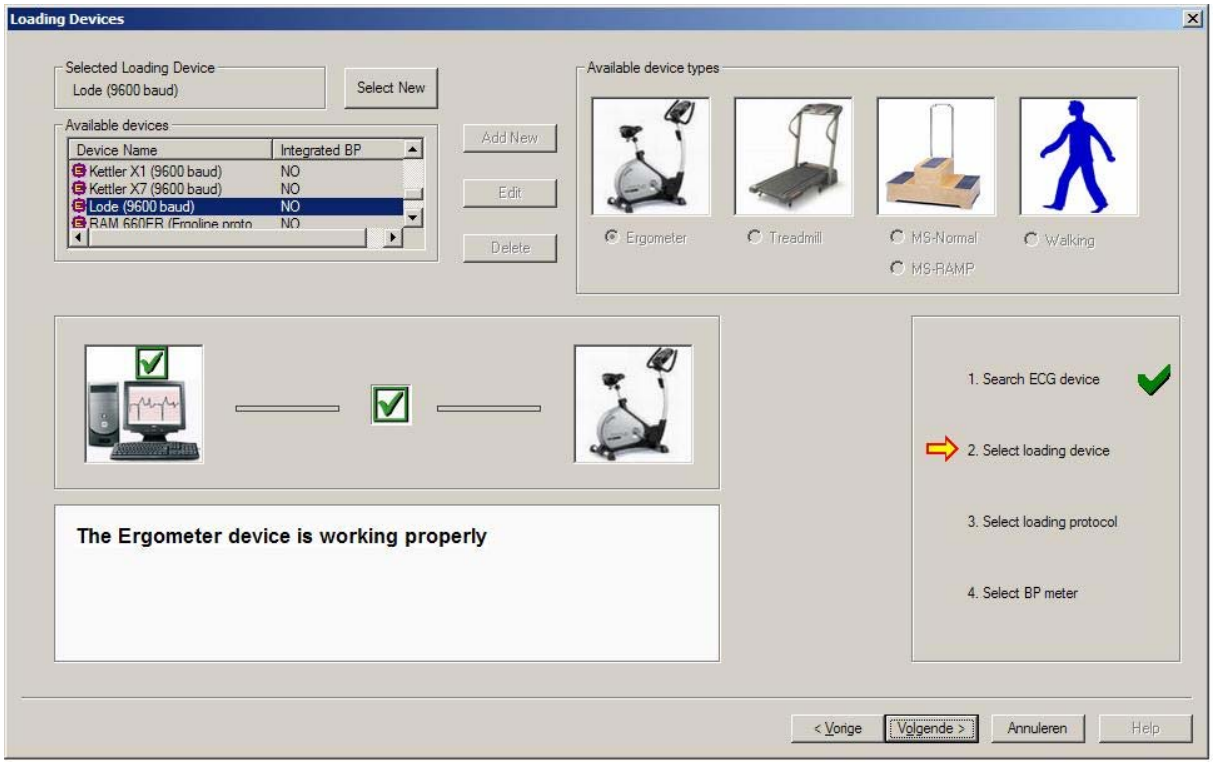
9. The EC-12 module will be detected automatically, press next to continue



10. Select the Lode (9600 baud) like it is described in the picture above and press Next
11. Select an exercise protocol and press Next.
12. Switch the blood pressure device on when you are using an external blood pressure device. And press submit.

The system is ready for use.

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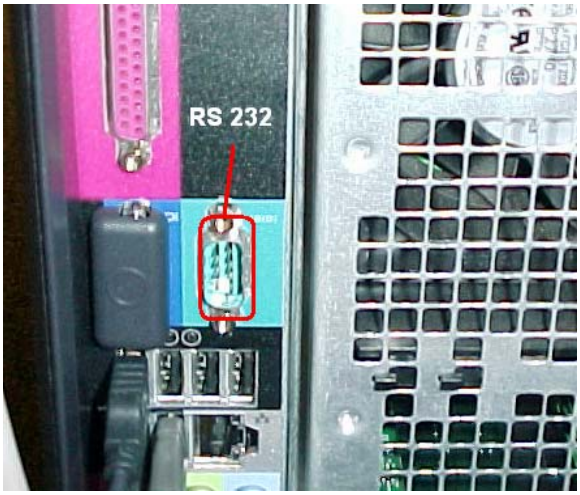
Remarks:

- The installation procedures of the Lode ergometers Corival, Angio and Excalibur Sport are all the same. The connection of the cables may be on slightly different places.

For questions and comments, you can contact the Lode service department by e-mail at service@lode.nl or by telephone at +31 50 5712811.

Picture 1: Connection to the Ergometer



Picture 2: Connection to the Labtech EC-12 R/S

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