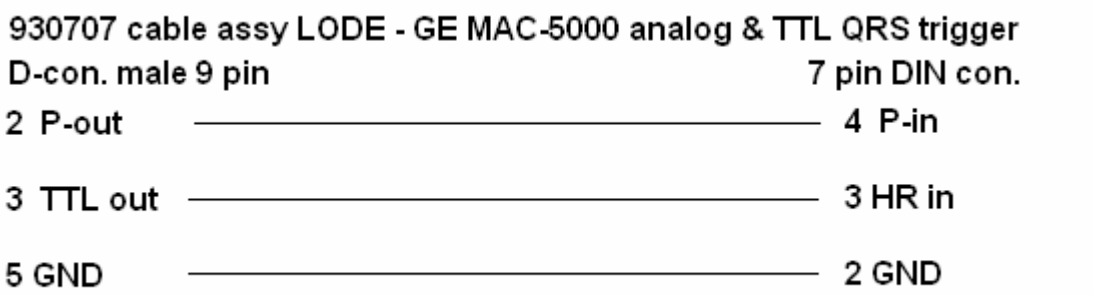
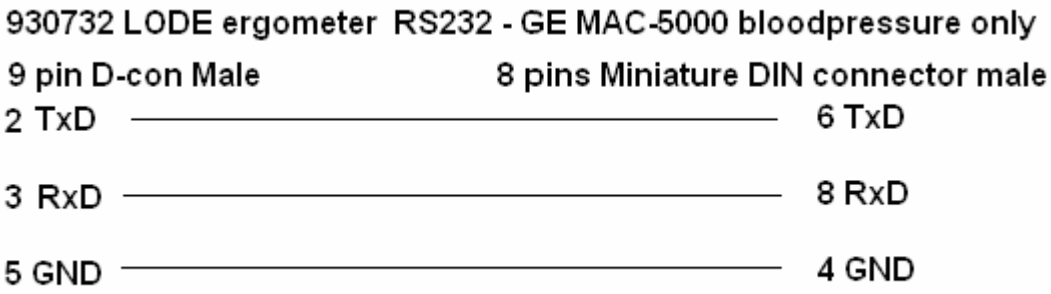
INTERFACE
Lode Ergometer – GE Medical MAC 5000
V2.00

STEP I Setting up the hardware

1. For controlling the workload by the MAC 5000 you need an analog cable. The lay-out of the cable is as follows:



2. You will need the RS-232 cable (part no.930732) to establish communication between the Lode NIBP (bloodpressure monitor) in the ergometer and your stress system. The lay-out of the cable is as follows:



3. Connect the RS232 cable to the ergometer *(see picture 1).*
4. Connect the RS232 cable to the MAC-5000 stress system *(see picture 2).*

STEP II Setting up the ergometer

5. Switch on the ergometer

   The Corival ergometer is default shipped with the LODE RS232 communication protocol.It should be set to the ERGOLINE P4 protocol

You can change the RS232 by following the procedure below:

- Switch on the ergometer and press enter.
- You will be in the "MAINMENU"
- 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 "ERGOLINE P4" and press enter.
- Save the selected RS232 protocol or restore the default RS232 protocol, which is also the LODE PROTOCOL.
- Switch off the ergometer.

6. For controlling the ergometer by the MAC-5000 the ergometer should be set in "ANALOG" mode. The "ANALOG" mode should be selected as follows. After switching the ergometer on press enter, and select "ANALOG" and press enter again

   NOTE: You can also let the ergometer startup in "ANALOG" mode every time you switch on the ergometer, by using the default start menu. To set up the ergometer for starting up in “ANALOG” mode proceed as follows:

   - Switch on the ergometer and press enter.
   - You will be in the "MAINMENU"
   - 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” and press enter

   If you switch off the ergometer it will start-up in the “ANALOG” mode every time when the ergometer is switched on again.

7. The Lode ergometer is now ready for external control

STEP III Setting up the MAC-5000

8. Switch on the ECG monitor
9. Select the “MORE” (F6)
10. Select “MAINMENU” (F2)
11. Select “MORE”(F6)

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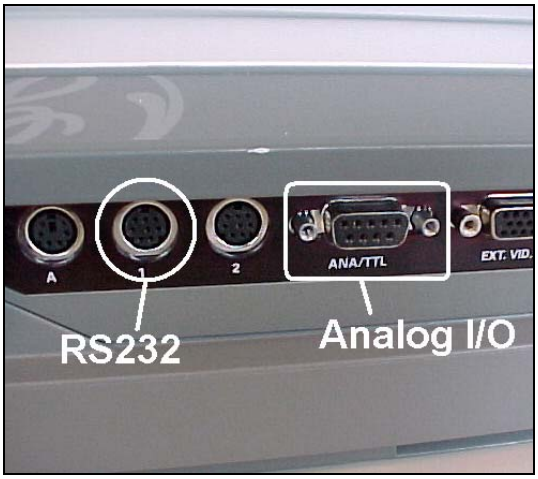
12. Select “SYSTEM SETUP” (F1)
13. Now enter the system password: “SYSTEM”
14. Select “EXERCISE TEST” from the list.
15. Choose “INPUTS/OUTPUTS” and confirm that the following settings are made:
16. Fast analog output is “WORKLOAD”
17. Bloodpressure device is “ERGOLINE ERGOMETER”
18. Press return twice.
19. Select “MAINMENU”
20. And save setup to system.

Restart the ergometer and ECG device and then your system is ready to be used.

Picture 1



Picture 2

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.

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