



# Field Service Bulletin

<b>FSB No.</b>	FSB-003
<b>Revision</b>	A
<b>Issue Date</b>	14/06/10
<b>Subject</b>	Factory Reset procedure
<b>Issue</b>	Can be used to get back to standard factory settings if other troubleshooting methods have been unsuccessful.
<b>Equipment Affected</b>	MiniRLG2,MiniPOS2,MiniPOS3,POSNAV
<b>Tools Required</b>	Terminal program, Burton Tail, Power supply
<b>Safety Issues</b>	NONE

## Summary

The purpose of this document is to describe the reset to factory defaults in the RLG range of products.



UNDERWATER ENGINEERING

## Revision History

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**Rev A** First revision of this document

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Revision	Author	Date	Approval
Rev A	Craig Spy	14/06/10	



## Solution

To successfully reset the gyro to factory defaults the following procedure should be followed.

1. If you have a deck lead go to step 3
2. Using the table in appendix A wire up a cable with the following wires connected.
  - a. +24V on 9
  - b. Power ground on 4
  - c. Data ground on 8
  - d. Data from gyro pin 5
  - e. Data to gyro pin 7
3. Connect the gyro to a PC running a terminal program like Terra Term or Datamate.
4. Power up the gyro
5. Wait for data to be displayed on the terminal
6. Press 'esc' to enter the menu
7. If you know what your current settings are go to step 13
8. If you have MiniRLG2 firmware version 3.12 or later or MiniPOS2 firmware version 4.11 or later you can select "Configuration Dump" an example of which is in appendix B then goto step 13
9. Goto port 1 configuration and note down the configuration of port1
10. Hit 'esc' to start again goto port2 configuration and note down all the settings.



11. Hit 'esc' and select "Config Aux 1" note which one is selected and the data format selected.
12. Hit 'esc' and select "Config Aux 2" and note which one is selected and the data format.
13. Select "Reset factory defaults"
14. When prompted select 'y' to confirm
15. Press 'x' to save the settings in the EEPROM
16. Power cycle the unit.
17. Enter the menu again via 'esc'
18. Enter your current latitude
19. Enter your current Longitude(only on POS units)
20. Press 'x' to save settings
21. Power cycle the unit again
22. This time the unit should start aligning at your current location
23. Go back into the menu using 'esc'
24. Re-enter all the settings that you have noted down remembering to hit 'x' to save changes when you have finished making changes.



Appendix A

Pin	Name	Function	RS 232	RS 422
1				
2	Port 2 TxA	Secondary Port	Tx	Tx +
3				
4	+24v Rtn	Power Ground		
5	Port 1 TxA	Primary Port	Tx	Tx +
6	Port 1 TxB	Primary Port	N/C	Tx -
7	Port 1 RxA	Primary Port	Rx	Rx +
8	Port 1 RxB	Primary Port	Ground	Rx -
9	+24v DC	+24v DC		
10				
11	Port 2 TxB	Secondary Port	N/C	Tx -
12	Port 2 RxA	Secondary Port	Rx	Rx +
13	Port 2 RxB	Secondary Port	Ground	Rx -

Table 2.2: Umbilical Connector

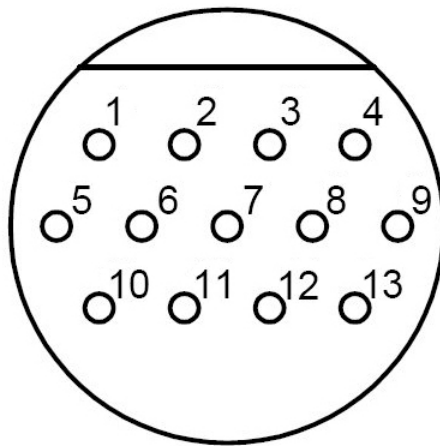


Figure 2.4: Burton 20-13 Female face view



Appendix B

\*\*\*\*\* Ser No 09765 \*\*\*\*\*
\* CDL RLG2 Firmware Rev 3.12 - RLG mode = 0x01 \*
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MiniRLG Configuration Dump

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[EEPROM Settings]

Latitude: +57.19099994 Longitude: -2.08230987
VALIDITY: D0h MODES: A0h
Baud Port1: 9600 Baud Port2: 9600
O/P Rate Port1: 10Hz O/P Rate Port2: 10Hz
O/P String Port1: CDL1 O/P String Port2: CDL1
Depth: Not available Salinity: Not available
CEPOS: Not available FORCOM: 00h
Depth/GPS: Not available Calibration: Not available
CALVAL: Not available

[RLG Configuration]

VALPHA: +0.0000 VBETA: -89.9945 VGAMMA: -0.7965
DISCRETES: 20h SATIME: 1Eh
VDELX: 0000h VDELY: 0000h VDELZ: 0000h
GPSLX: 0 cm GPSLY: 0 cm GPSLZ: 0 cm
DOPLX: 0 cm DOPLY: 0 cm DOPLZ: 0 cm
EMLAZIM: 0000h EMLPITCH: 0000h EMLROLL: 0000h
LSATIME: 1Eh MBATIME: 1Eh

[AOD MESSAGE]

VALIDITY: 50h MODES: A0h
Latitude: +57.19099994 Longitude: -2.08230987
IDEPTH: 00000000h INITHDG: 0000h
SALINITY: 0000h CEPOS: 7FFFh FORCOM: 00h

Please visit our website at www.cdLtd.net where you can find more information, other FSBs, downloads and contact numbers for any further support questions.