



Service data bulletin

Instrument: GDS101

Date: 26.02.2013

Created by: Geir Theodorsen

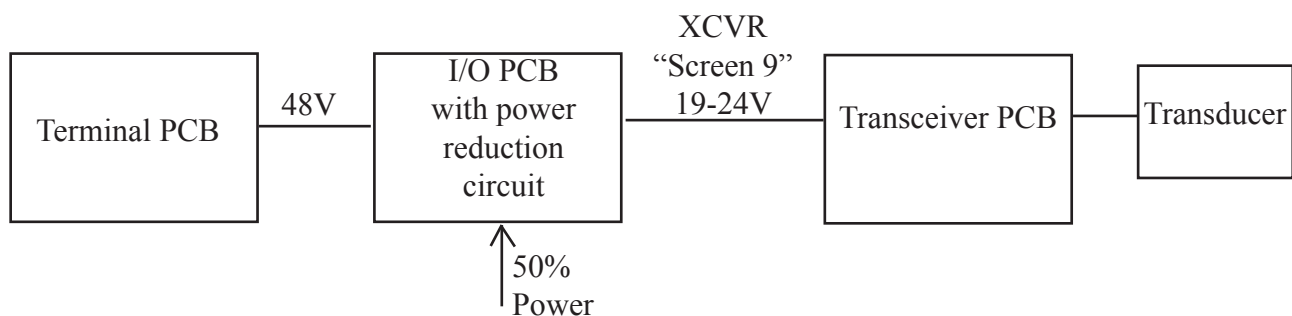
SUBJECT: No depth or unstable depth reading

In the last months SKIPPER electronics service department has noticed an increase in failure rate of the GDS I/O PCB.

We have analysed return cards and found that in some cases the power reduction circuit fails. This is due to some components being overstressed in this mode.

We have now replaced these components with components of higher specification, and tests show that this eliminates the problem.

This is not a general problem but if it occurs we recommend to change this card to the new design.



Problem description: "No depth" reading. Unreliable depth reading.

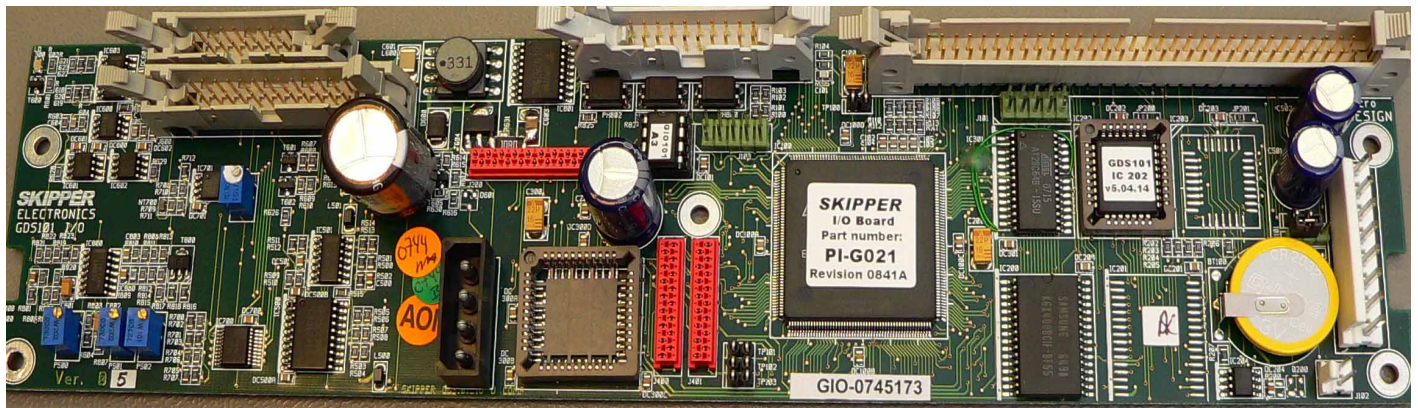
Output power from transceiver is regulated on the I/O board.
On defective boards XCVR (Screen 9) is unstable or too low.

With 100% power XCVR on screen 9 should be stable about 38-46V.
(50% power 19-24V)

Units involved: GDS101 with colour screen manufactured before October 2008.

What to do: Change I/O PCB to revision 0841A or higher.

Parts required: Units manufactured from December 2004 to July 2008:
Partnumber PI-G021. Revision 0841A or higher.
PCB I/O board for GDS101 Mono/colour. For CPU6135.



Units manufactured from August 2008 to October 2008:
Partnumber PI-G031. Revision 0841A or higher.
PCB I/O board for GDS101 Mono/colour. For CPU 6740/6742.

On these units software on IC202 is moved from I/O PCB to MESA PCB.
(See page 4)

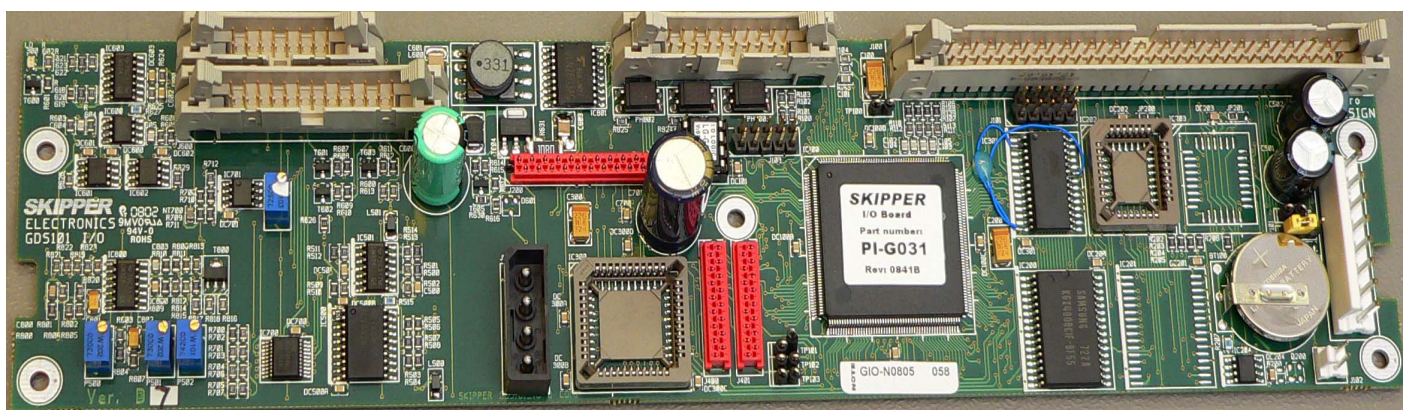
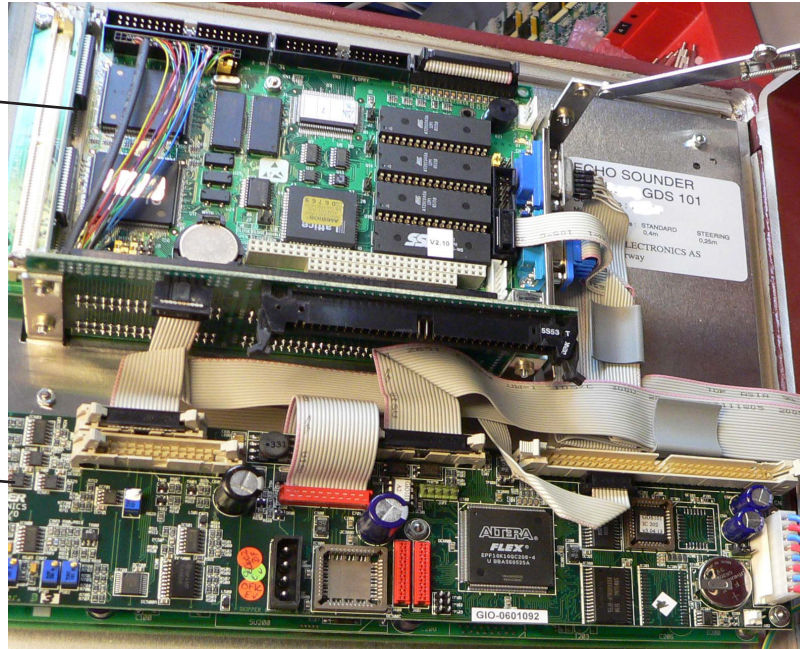


Illustration of the different versions

Units manufactured from December 2004 to July 2008:

CPU PCB 6135
PC-G002

I/O PCB
PI-G021

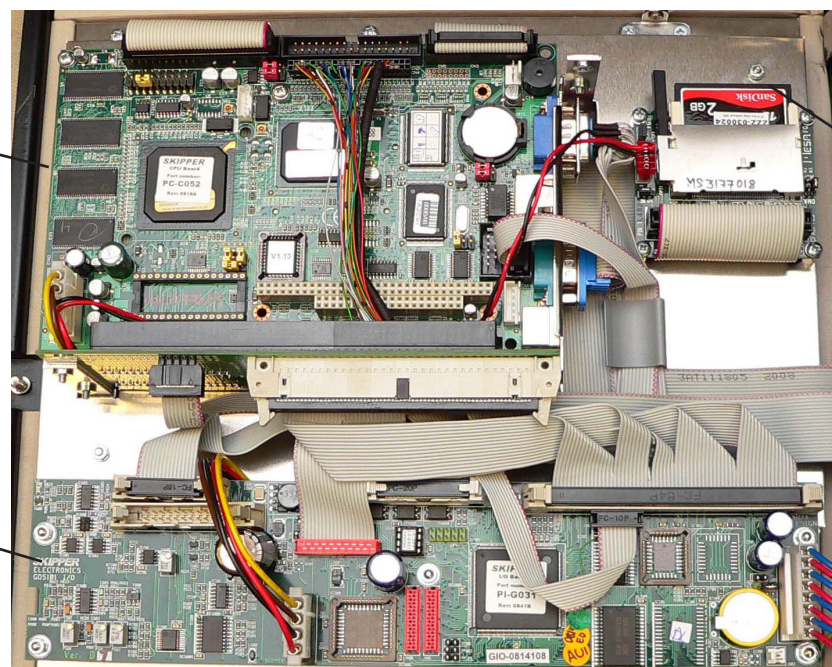


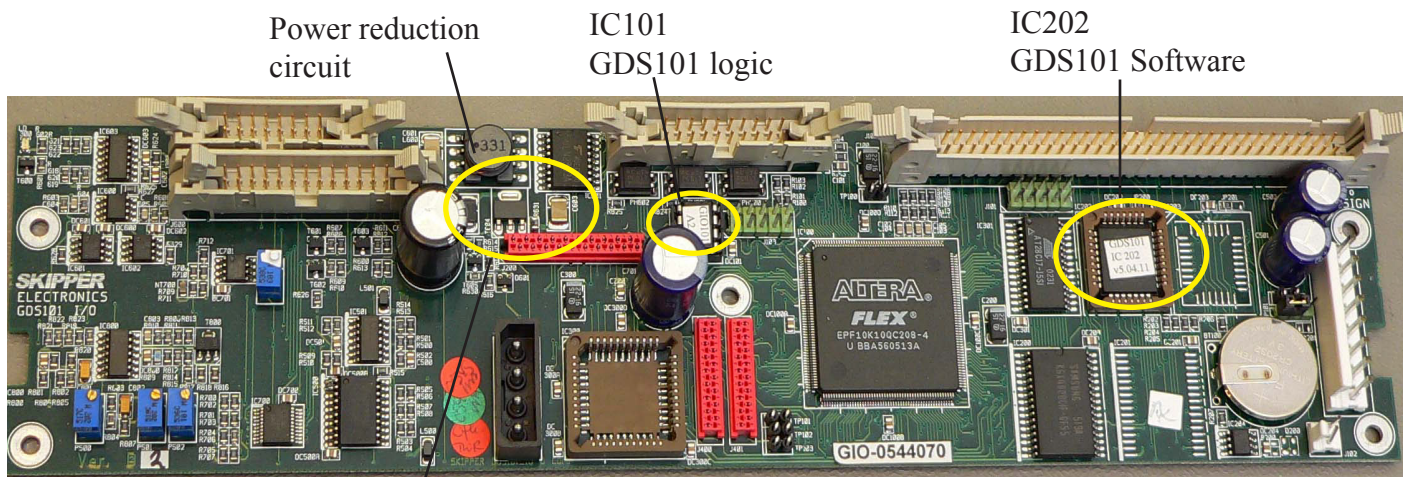
Units manufactured from August 2008 to October 2008:

CPU PCB 6740/6742
PC-C052

I/O PCB
PI-G031

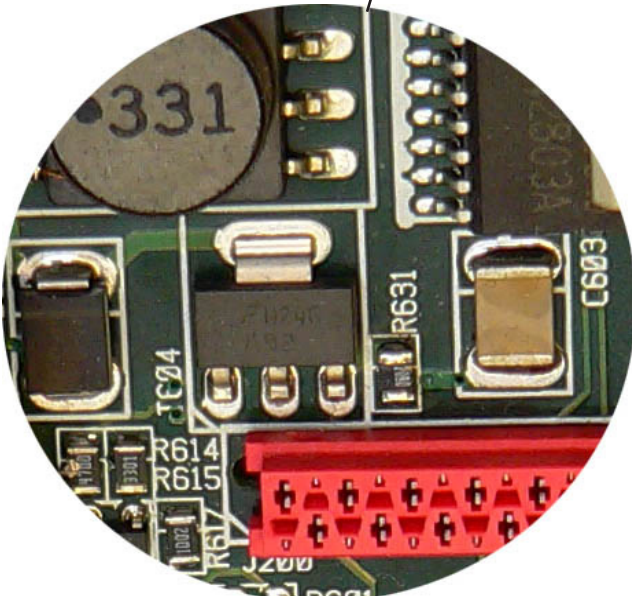
CF-Card with
software on
MESA PCB



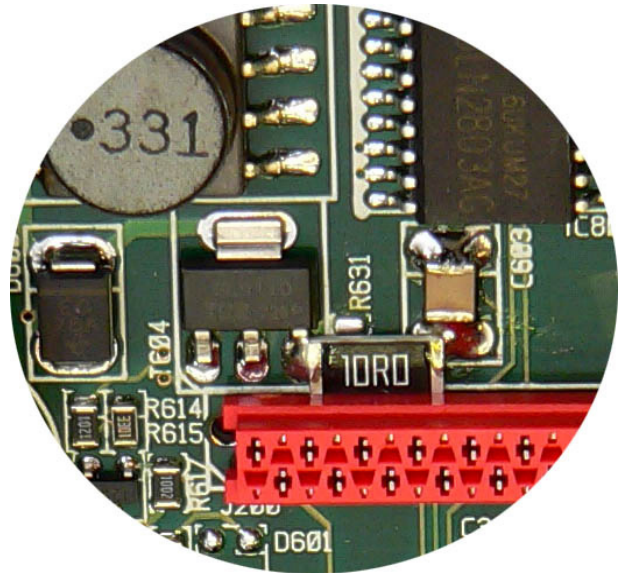


The above I/O PCB is PI-G021.

The IC202 is present and recognised by the serial number starting with GIO-05 (Manufactured in 2005).



Power reduction circuit before rev 0841A



Power reduction circuit from rev 0841A

All I/O PCB from version 0841A can be recognised by the 1W R631.
(There are more differences so please dont try update in field)

Units outside warranty: Upon failure a new card can be purchased from SKIPPER Electronics as.
Upon return of the defective card with this error to SKIPPER, a credit of 50% will be issued for this card. (Other costs, shipping etc will not be credited)

Note: The 50 % credit offer ended from 26th. February 2013.