

LXNAV Trig Bridge

Installation manual Version 1.0



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- 1 Important Notices 3**
- 1.1 Limited Warranty 4**
- 2 Installations 5**
- 2.1 Packing Lists 5**
- 2.2 Basics 5**
- 2.3 Installation 5**
- 2.4 Wirings 7**
- 2.4.1 Trig bridge wiring for Trig TY 91/92 without TC90 head 7
- 2.4.2 Trig bridge wiring for Trig TY 91/92 with TC90 head 7
- 3 Revision History 8**

1 Important Notices

Information in this document is subject to change without notice. LXNAV reserves the right to change or improve their products and to make changes in the content of this material without obligation to notify any person or organisation of such changes or improvements.



A Yellow triangle is shown for parts of the manual which should be read very carefully and are important for operating the system.



Notes with a red triangle describe procedures which are critical and may result in loss of data or any other critical situation.



A bulb icon is shown when a useful hint is provided to the reader.

1.1 Limited Warranty

This LXNAV product is warranted to be free from defects in materials or workmanship for two years from the date of purchase. Within this period, LXNAV will, at its sole discretion, repair or replace any components that fail in normal use. Such repairs or replacement will be made at no charge to the customer for parts and labour, provided that the customer shall be responsible for any transportation cost. This warranty does not cover failures due to abuse, misuse, accident, or unauthorised alterations or repairs.

THE WARRANTIES AND REMEDIES CONTAINED HEREIN ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED OR STATUTORY, INCLUDING ANY LIABILITY ARISING UNDER ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, STATUTORY OR OTHERWISE. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, WHICH MAY VARY FROM STATE TO STATE.

IN NO EVENT SHALL LXNAV BE LIABLE FOR ANY INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM THE USE, MISUSE, OR INABILITY TO USE THIS PRODUCT OR FROM DEFECTS IN THE PRODUCT. Some states do not allow the exclusion of incidental or consequential damages, so the above limitations may not apply to you. LXNAV retains the exclusive right to repair or replace the unit or software, or to offer a full refund of the purchase price, at its sole discretion. SUCH REMEDY SHALL BE YOUR SOLE AND EXCLUSIVE REMEDY FOR ANY BREACH OF WARRANTY.

To obtain warranty service, contact your local LXNAV dealer or contact LXNAV directly.

2 Installations

2.1 Packing Lists

- Trig bridge
- Pair of spring locks for RS485 splitter

2.2 Basics

LXNAV Trig bridge connects Trig TY 91/92 radio directly to LX 485 bus. Although it is on both sides RS485 communication, this one makes them compatible with converting different bus speeds. Bridge is connected to the LX 485 bus through a RS485 splitter with DB9 connector. Splitter is not part of package. If you don't have spare port on your RS485 splitter you must order another 485 splitter.

2.3 Installation

The RS485 splitter needs a small modification before the Trig Bridge can be fitted. It is necessary to remove two HEX screws, where the Bridge is to be connected and replace with the two spring locks that are in package.



After that small modification, fixing the Trig Bridge to the RS485 splitter will be very easy.



On the back side of the Bridge is a RJ12 connector with RS485 output for Trig TY 91/92 radio. 12 V output from bridge can be only used for powering up small devices, do not power radio over this pin, it cannot supply such load. You can burn bridge or maybe even main instrument over which is powered.



Pin number	Description
1	12V DC out, low current supply (do not power radio over this pin)
2	RS485-B
3	RS485-A
4	Do not connect
5	Do not connect
6	Ground

Minimum firmware versions for communication between Trig radio and Trig Bridge



Device	Minimum firmware version
TY 91/92	1.5
TC 90	1.4
Trig Bridge	1.0

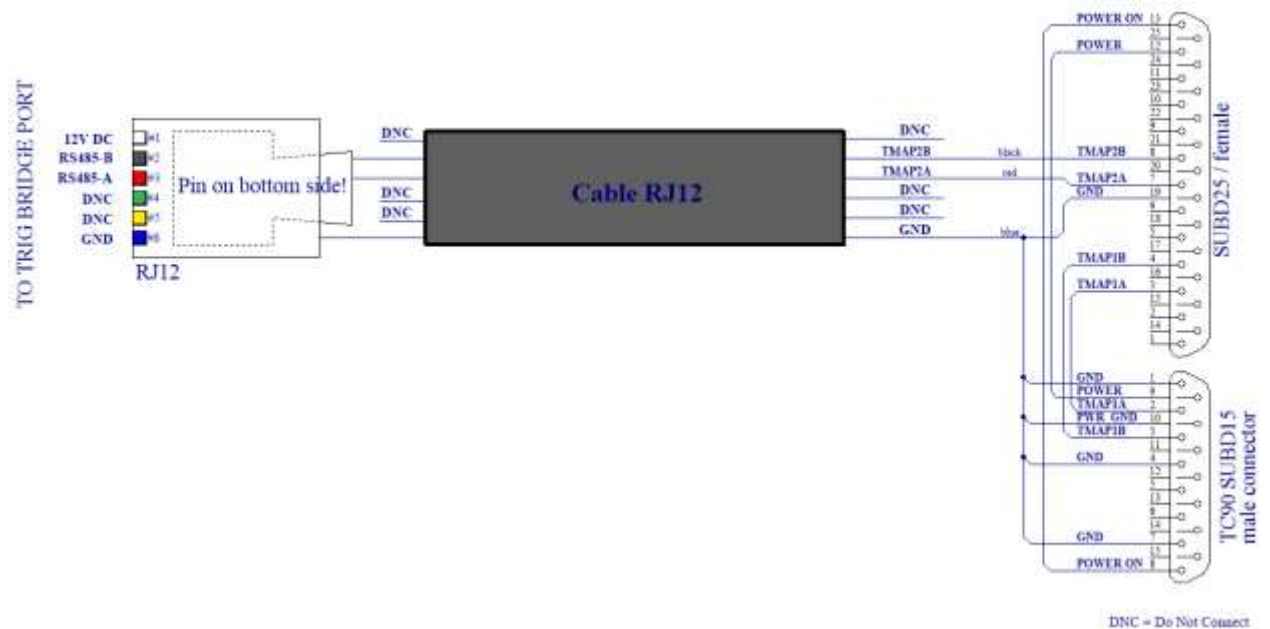
2.4 Wirings

The wiring diagrams show the minimum required connection for communication between a LXNAV instrument and a Trig radio. The user should check the manual of the connected device for any further information.

2.4.1 Trig bridge wiring for Trig TY 91/92 without TC90 head



2.4.2 Trig bridge wiring for Trig TY 91/92 with TC90 head



Complete cable for Trig Bridge can be bought from LXNAV, where are connectors for Trig radio and control head. Beside this there are left cables for PTT, microphone, speaker and power supply.

3 Revision History

January 2017	Initial release of owner manual
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