

# NGRP-AOLF Installation manual

## DISCLAIMER:

*This procedure is only to be carried out by personnel trained and authorized by INID.*

### Scope

This document is valid for NGRP-AOLF modules model 4000 and 4000A; since the modules only differ in antenna appearance and not in installation details only model 4000 is shown in the photos.

### Prerequisites

- ▶ Always disconnect the power supply of the unit.
- ▶ Perform these actions on an ESD-safe workbench in a suitable location.
- ▶ Take appropriate measures against ESD damages of the equipment.

### Required equipment:

- ▶ Torx® #6 screwdriver, manual type recommended
- ▶ Soldering iron (40-60 Watts pencil-type recommended) with lead-free compatible tip (1.5mm chisel-type recommended)
- ▶ Lead-free solder wire, 0.7mm rosin-core recommended

### Recommended equipment:

- ▶ Torx® #8 screwdriver, manual type recommended (required for removing reader from wall)
- ▶ De-soldering wick, 1 à 2mm width recommended
- ▶ Needle-nosed pliers or fine-pointed tweezers

## Step by step instructions

### A. DISASSEMBLY

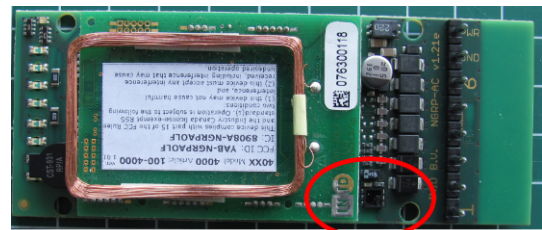
1. Unpackage the reader and remove the backplate and connector, or, remove the reader from the wall and disconnect it.
2. Protect the reader housing from scratches or other damage.
3. Remove the four screws that keep the electronics cover onto the reader in the order specified:



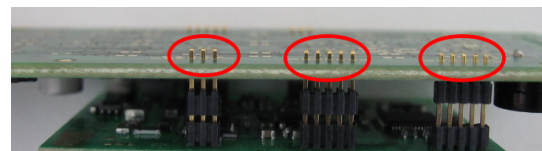
4. Remove the electronics cover.
5. Remove the printed circuit board from the reader.

### B. MOUNTING & CHECK

1. Fit the NGRP-AOLF module onto the reader printed circuit board. Pay attention to the correct orientation :



2. Make sure that all pins are properly lined up and inserted to the correct depth; the pins should not protrude more than 1mm:

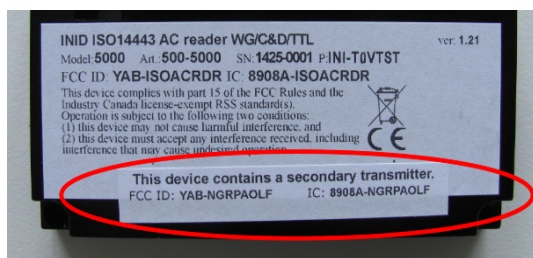


3. Solder all the pins to the main board using lead-free solder.
4. Connect power to the reader PCB, the reader should start up normally. If not, check for shorts or cold joints on soldering and correct where necessary.

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## C. RE-ASSEMBLY

1. Place the reader printed circuit board with the NGRP-AOLF module back in the reader enclosure.
2. Replace the product label, or, alternatively, add the correct additional product label (shown is the additional label for model 4000):



3. Reposition the electronics cover over the four screw posts, observe correct orientation.

4. Replace the four electronics cover screws in the reverse order listed in step A4. Attempt to engage the old thread and avoid excessive force to prevent damage to the housing and screw posts.

## D. PROGRAMMING & VERIFICATION

1. Connect power to the reader and load the parameters for the low frequency module
2. Perform a functionality test with the appropriate ISO14443 and low frequency proximity cards.

## E. FINISHING

1. Repackage the reader with the appropriate manual(s) and affix the correct label to the box, or, remount the reader to the wall.

### Warning (part 15.21)

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### Compliance statement

This device complies with part 15 of the FCC Rules and with the Industry Canada license-exempt RSS standard(s).

Operation is subject to the following two conditions:

- 1) this device may not cause harmful interference, and
- 2) this device must accept any interference received, including interference that may cause undesired operation.

*Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :*  
*l'appareil ne doit pas produire de brouillage, et l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.*

**INID BV**  
Overweg 5  
1713 HX Obdam  
The Netherlands  
T: +31 (0)226 450 009  
W: [www.inid-readers.com](http://www.inid-readers.com)