

Indala RFID Module Installation Manual

Series 500 Reader Installation

Version 1.00

Purpose

This document describes the installation process of the Indala RFID Module in the Series 500 Reader. This module is an option that may be purchased by the customer.

NOTICE: Installation of this module may only be made by qualified API employees. This is not a field upgrade, and must be done at the API factory.

FCC Notice

FCC ID: W7N-PROXIN01

Compliance Statement (Part 15.19)

This device complies with Part 15 of the FCC Rules.

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.

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.

FCC Interference Statement (Part 15.105 (b))

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Installing the Indala RFID Module

1. Cut the long pins flush on the two headers on the Indala board per Figure 1.

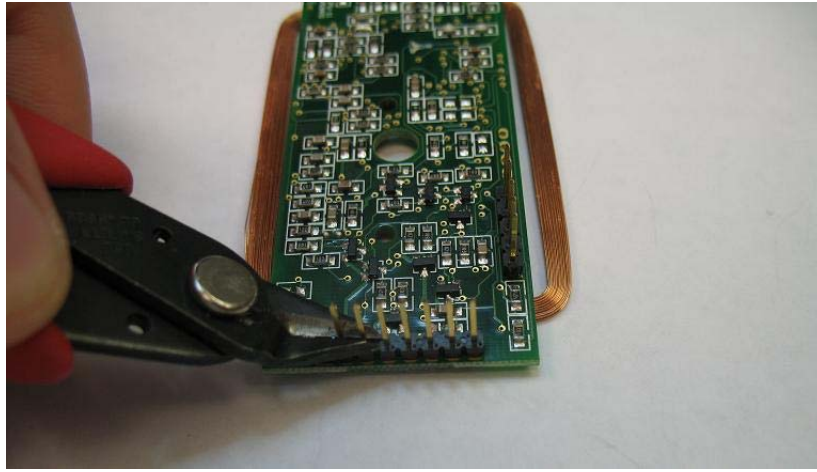


Figure 1.

2. Carefully pull the plastic spacer off the header at the end of the board, leaving the pins intact per Figure 2.

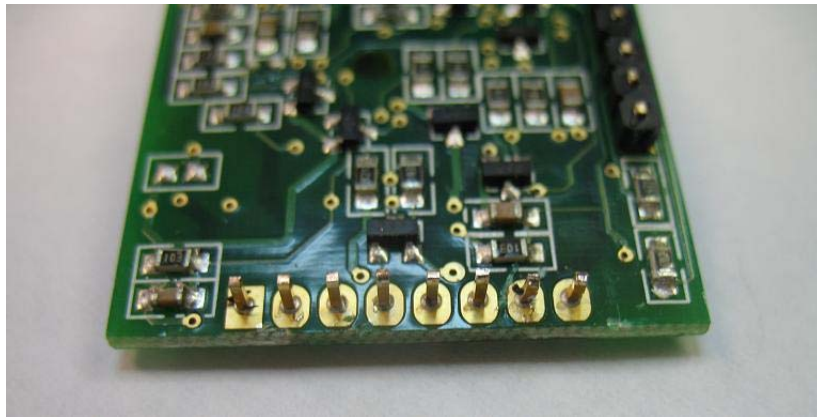


Figure 2.

3. Cut pins all the pins except 1, 3, 4, & 5 flush with the circuit board.
4. Tin the remaining pins with solder.
5. Solder the wires to the Indala header pins. Gently tug on each wire to ensure a strong mechanical joint. Ensure there are no shorts between wires.

Indala Pin	Wire Color
1	Red
5	Black
3	Yellow
4	Green

6. Insert two stand offs into the Indala board per Figure 3.

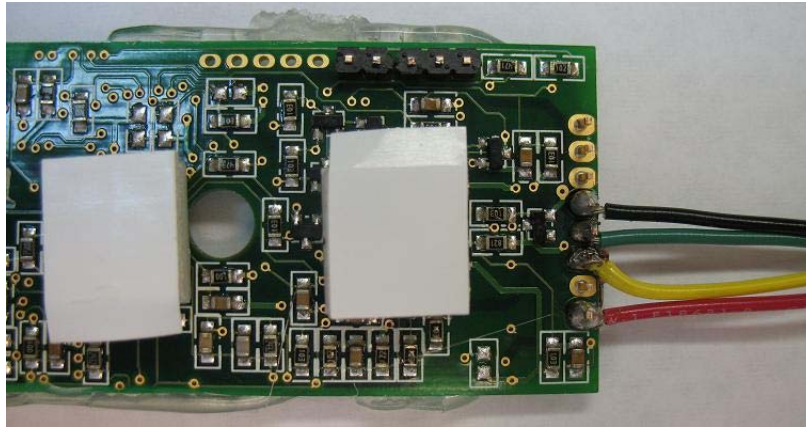


Figure 3.

7. Place the assembly in the case as shown in Figure 4.



Figure 4.

8. Remove the paper covering the adhesive on the stand offs. Place the TA-500 board in the case. Align the TA-500 board so the mounting holes line up with the 3 case mounting bosses. Press gently to make contact with the Indala board stand offs.
9. Remove the TA-500 circuit board. The Indala should be mounted on the board. Press firmly on the Indala board to ensure good adhesion between the two boards.
10. Per Figure 5, trim the wires to the proper length and strip off 1/8" from the free ends. Solder the wires from Indala cable harness as follows:
 - a. Red wire to J8-1 (+5V)
 - b. Black wire to J8-2 (GND)
 - c. Yellow wire to J8-4 (CLK)
 - d. Green wire to J8-5 (DATA)

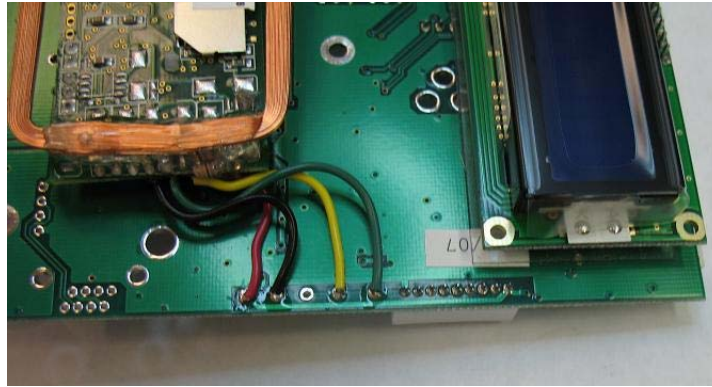


Figure 5.

11. Mount the Series 500 Main PCB in the case in the normal manner.
12. Complete final assembly of the unit.

Testing the Indala RFID Module

1. Apply power and wait for the unit to boot up.
2. Enter Diagnostic Mode:
 - a. Hold the F1 key until the display shows: DIAGNOSTIC PIN
 - b. Enter the PIN number by pressing the following keys: 415049<ENT>
 - c. Press 1 (BADGE)
 - d. Press 1 (RAW DATA)
3. Hold the test badge near the front plate of the reader until it displays: PROX SUCCESS.
4. Verify the number displayed matches the number printed on the test card.
5. This completes test of the module.