

# Using RFID Programmer to Program AIM2<sup>®</sup> Nozzle Tags

These procedures were developed using an RFID Programmer (Syntech part number 250015) with v2.05 firmware. Use of the v2.05 firmware can be identified by a “v2.05” label over the display (Figure 1).



Figure 1. RFID Programmer

Nozzle tags are identifiable in three “generations”. A chip incorporated in the tag became unavailable, so Generation 2 was created. Then, the Generation 2 chip became unavailable, so Generation 3 was made. The “generation” may be identified by observing the manufacturing “bumps” on the face of the tag (see Figure 2). Generation 1 has no bumps. Generation 2 has two bumps. Generation 3 has three bumps. A Generation 2 or 3 nozzle tag can only be reliably programmed with an RFID Programmer using v2.05 firmware. An RFID Programmer using v2.05 firmware will also reliably program older nozzle tags without the manufacturing ‘bumps’.

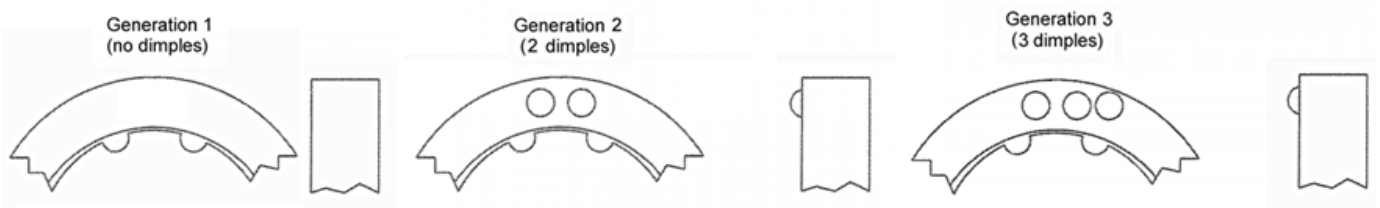


Figure 2. Nozzle Tag Identification

## Perform the following to program a nozzle tag:

**NOTE** The RFID Programmer may be used without the Charger/Power Supply if the internal battery has sufficient charge. If a display does not appear after the power button is depressed or if an error is displayed, plug in the charger/power supply.

1. Press the power button on top of the Programmer. RFID, Inc. V2.05 should be displayed, then timeout and replaced with MODE? [PROGRAM].
2. At MODE? [PROGRAM], press SAVE. WRITE MODE = 18 should be displayed.
3. At WRITE MODE = 18, press SAVE. AUTO INCREMENT? [NO] should be displayed.
4. At AUTO INCREMENT? [NO], press SAVE. \*ENTER TAG DATA\* 000 should be displayed.

**NOTE** Programming Hose Tags (PHT) are read by AIM as having a letter instead of a number. The RFID Programmer does not show the letters. The letters are made by using a combination of numbers with the Programmer. The letter A is made using 234, B using 235, C using 236, and so on.

5. Enter the desired tag number. Three digits must be used when entering a tag number. If the tag number does not have three digits, the front of the number must be padded with 0s (zeros). After a number has been entered, press TOGGLE to step to the next digit (example: for 4, press TOGGLE twice, then enter 4).
6. Place the tag on the RF PROGRAMMING PAD over the large yellow dot; then, press the ENTER/PROG key. If the tag number is successfully programmed into the nozzle tag, \*ENTER TAG DATA\* SUCCESSFUL!! will be displayed. If the tag cannot be programmed, NO TAG READY or DEFECTIVE TAG will be displayed. Try another nozzle tag.
7. Verify the tag was programmed with the correct number by placing the tag on the RF PROGRAMMING PAD over the large yellow dot; then, press the READ key. TAG DATA READ: with the correct tag number (padded with zeros) will be displayed.
8. Press ESC to return to the \*ENTER TAG DATA\* 000 screen.
9. Repeat steps 5 through 8 as necessary to program additional nozzle tags.
10. When complete, press the ESC key; then, press the power button to remove power.

**TIP**

If any questions arise, contact Syntech Systems, Inc.'s Customer Satisfaction Center (CSC) at 1-800-888-9136, ext. 2, or email [support@myfuelmaster.com](mailto:support@myfuelmaster.com).