

## M1044-SU AVI Start-up

This is a general outline of steps for the installation of your AVI system. You must download the manuals that follow at <https://www.opwglobal.com/opw-fms/tech-support/manuals-how-to-videos/technical-manuals> so they can be referenced during installation:

M1040 AVI Installation
M1044-TAG Tag Writer Guide
M1044-RFN RFN Programming
M1047 AVI Site Survey
M1700 FSC3000 Installation, Operation and Maintenance
M1010 PV200 Installation, Operation and Maintenance
M00-20-0340 PCM User Guide
M03700.05 Phoenix SQL Reference Guide
M3034 ARTWare Reference

### Tech Support

1. Review the Site Survey (submitted by the customer), ([refer to M1047 AVI Site Survey](#)).
2. Make sure the installation technician is certified.
3. Coordinate training with the distributor and customer.
4. Confirm that parts and equipment are in order.
5. Get the registration number for the Tag Writer Software from OTI.
6. Determine the date and time to complete the installation.

### Distributor

1. The distributor and customer must have a completed site/vehicle survey with photos ([refer to M1047 AVI Site Survey](#)).
2. The M1047 Site Survey must have all applicable information completed.
3. The vehicle survey must show make/model, measurements, odometer and engine hour requirements.
4. Use this document as a checklist for equipment to be installed and the order of installation.
5. Test all equipment to make sure it operates correctly.

### Installation Technician

1. Make sure the Site Survey is available to assist with hardware installation.
2. Make sure the AVI Training Course has been completed.

### Customer

1. The Customer is responsible for vehicle installation (unless an alternative has been previously determined).
2. Make sure that there is an available contact responsible for vehicle equipment installation.
3. The contact must complete the vehicle installation training videos.
4. The Customer must make time for vehicles to be available for installation and testing.

5. Make sure to order the correct size for Flexible, Mini-Flex and Flexible with Tail tags It is recommended to measure the fuel inlets to find the correct size tags.
  - a. Measure the Outside Diameter of the Inlet (in millimeters) and add 10 mm to the measurement.
  - b. For in-between measurements, order a tag the next size larger.

Example:

An inlet's outside diameter is measured at ~55 mm.  $55 + 10 = 65$  mm. rounded up to the next largest size, you would order a 70 mm tag

#### **Fuel Site Controller (FSC3000)**

1. The software version must be v1.20h or higher. Update the software if necessary.
2. Pump Control: Electronic (DPC) or mechanical (PCM):
  - a. Wayne DPC must have 10.05i DPC software or higher ([refer to M1700 Section 3 Pump Control](#)).
  - b. Gilbarco DPC must have 10.05i DPC software or higher ([refer to M1700 Section 3 Pump Control](#)).
  - c. Gasboy DPC must have 12.00c DPC software or higher [refer to M1700 Section 3 Pump Control](#)).
  - d. PCM installations must have v2.0 or higher and the Handle Monitor board installed ([refer to M00-20-0340 PCM User Guide](#)).

#### **Tag Writer Software (refer to M1044-TAG Tag Writer Guide)**

1. Install Drivers for the Issuing Unit ([refer to M1044-TAG Section 1.4 Install Drivers](#)).
2. Install Tag Writer software ([refer to M1044-TAG Section 1.2 Install Tag Writer](#)).
3. Register the Software ([refer to M1044-TAG Section 1.3 Configure Tag Writer](#)).
4. Connect the Issuing Unit. Make sure the Issuing Unit shows up in Device Manager.
5. If applicable, change COM port in Device Manager to COM2

#### **Hardware Installation**

1. Install VIS and RFNs ([refer to M1010 and M1040](#)).
2. Make sure the VIS is up and is in communication with the FSC.
3. Configure the RFNs ([refer to M1044-RFN](#)).
  - a. Set the RFN ID numbers in Tag Writer ([refer to M3034 ARTWare Reference Section 16.5 AVI](#)).
  - b. Configure the RFNs in ArtWare.
  - c. Test the RFNs.
    - i. Make sure that the LEDs flash when you lift the handle (If the LEDs cycle through the colors then you know the RFN has communication with the VIS and the VIS has communication with the FSC.
    - ii. If the LEDs do not flash correctly, make sure that the RFN configuration is correct.

- Make sure that the correct serial numbers are mapped to the correct RFN ID numbers.
- Do a check of the VIS communications with the FSC.
- Make sure that the RFN is addressed to the correct pump handle.

**Vehicle Installation (VIDs and Tags)(refer to M1040)**

1. Install the VIDs (refer to M1040 Section 5 Vehicle Identification Device Installation).
2. Install the Tags (refer to the M1040 Section 3 Tag Installation).
3. Install GOS Option (refer to M1040 Section 6 AVI Wire Harness with GPS Odometer Sender).
4. Wire the system power (refer to M1040 Section 7 Auto Vehicle Identification System Power).
5. Configure the VIDs and Tags (refer to M1044-Tag Section 3 Tag Writer Operation).
6. Input Cards into Phoenix (refer to M03700.05 Section 5 Cards).

**Test Vehicle(s) at the Pump (refer to M1040 Section 11 Component Test).**