

## Datalogger Truck Installation

see diagram on page 2

### 1. Install the Gems FS-200 one-inch flow switch on the sprayer make sure that only the flow that goes to the spray output nozzles, is flowing through the switch, including the hand gun(s)

- Any flow from agitation or bypass going through the flow switch will cause the Datalogger to take incorrect GPS Points.

### 2. Run the gray-shielded wire in the Sprayer cab near where the Datalogger is going to sit.

- It is best to position the Datalogger where it can be seen easily, like the dash or switch pannel. It must be on the top for GPS signal reception. Some users use the GPS speedometer for sprayer speed and tracking.

### 3. On the flow switch attach the Black wire of the switch to the green wire in the gray-shielded wire. Next attach the Orange flow switch wire to the white wire in the gray-shielded wire.

(Note if the 2 wires are red coming out of the flow switch it does not mater which one you hook to the green or white wire. They work either way you hook them.)

- The red and black wires in the gray-shielded wire are used to power the Datalogger and can be hooked to power in the cab of the sprayer or at the flow switch. It is recommended that battery power is used to keep the Datalogger and GPS receiver from turning off during the day. The Red wire on the Flow Switch is not used in this application and can be clipped off.
- When hooking to power in the cab, power can be tap from any battery location like the fuse box, or on models with a cigarette lighter tap, by installing a cigarette lighter plug. (Plug Included with instillation kit.)
- It is also recommended that the Gray wire be spliced into. Cut Gray sheath approximately 2 to 3 feet back from the end where the 5-pin din plug is installed, and plugs into the Datalogger. By cutting the gray outside sheath and stripping away about 1' it is very easy to clip the shield, red, and black wires, splicing in a short piece of wire from the power source. Be careful not to damage the green and white wire as this is the switch connection and damage to these wires can cause the Datalogger to not work properly. The shield wire can be clipped off at this splice point. Using a solder-less butt connector, connect the red and black wire to the short power wire. The butt connectors work well, but soldering the wires and using black electrical tape or heat shrink tubing is best. When the connection is complete, tape or heat shrink over the complete splice for protection. (Make sure to use the red and black wires that run to the data logger and do not use the red and black wires that run to the flow switch. The red and black running to the flow switch will not be in use from the splice to the flow switch.)

### 4. Install the 5-pin din plug is probably the hardest part of the installation.

- **(YOU MUST LOOK AT THE BACK OF THE DIN PLUG FOR PROPER PIN NUMBER WIRE PLACEMENT! SOLDERING WIRES TO WRONG PIN WILL CAUSE DAMAGE TO EQUIPMENT AND IS NOT COVERED UNDER WARRANTY!!!)**
- First take the black plug cover and silver plug case and slip over the gray wire. Strip off approximately 1/2 inch of the gray cover from the end of the wire. Clip off the shield wire and the tin foil leaving the red, black, white, and green wire exposed. Next strip the ends of these wire approximately 1/16 of an inch.

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- The din plug is numbered 1,4,2,5,3. The numbers are hard to see but they are there. Be careful not to get the pins too hot when soldering as it can melt the plastic part of the plug. (A spare plug is provided in the kit.) (Also we have found it is not necessary to insert the wires into the holes in the pins but it does make it easier to solder.)
  - Attach the Red wire (positive 12 volt wire) to the #3 pin.
  - The White to the #1 pin,
  - Green to # 2 pin (switch wires).
  - The Black (negative or ground wire) will be soldered to the silver cover. It is best to snap the cover in place before soldering the Black wire. Solder the black wire to the shield where the 2 holes are provided at the back of the plug. Let cool, and crimp the tabs around gray cover of the wire. Slide the black rubber cover over the plug and make sure it clips into the small hole provided.

**5. Plug in to the Datalogger; make sure the power is connected and test.**

**For help please e-mail us at [info@montanaagplastics.com](mailto:info@montanaagplastics.com).**

- Please provide a description of the problem, a contact phone number, and return e-mail address and we will respond as soon as we can.

