

# EMHD Bracket Installation

## Contents

|        |                                                               |
|--------|---------------------------------------------------------------|
| Page 2 | EMHD Goal-Post Bracket Installation (Kit # 724800)            |
| Page 4 | EMHD Upper parallel arm Bracket Installation (Kit # 724805)   |
| Page 7 | EMHD Upper parallel arm Bracket Installation (Kit # 724763)   |
| Page 9 | EMHD Rear-Application Bar Bracket Installation (Kit # 724825) |

## Instructions for EMHD Goal-Post Bracket Installation (Kit # 724800)

### Product Compatibility:

- Can mount either EMHD with EM FlowSense or vApply HD with Turbines removed and EM Flowsense

### Row unit Compatibility:

- John Deere Row Units with Seedtube only
  - **Not Compatible with Speedtube on JD Row Units**
- Kinze row units
- White 8000, 9000 row units
- Precision Planting Ready Row Units
- Case IH 1200 row units

Figure A below shows the bracket and hardware by itself uninstalled.



Figure A

### EMHD Mounting Instructions

Step 1. Mount the EMHD and EM FlowSense on to the bracket as shown below in Figures C & D.

Use the supplied carriage bolts and a ½" socket to tighten the hardware and secure the modules

Step 2. Use the corresponding color 6 pin line of jumper 72483X as shown in Figure B below.

Note: The Jumper will be connected from port on the EMHD labeled "EM FlowSense" to the actual Flowsense module.

*The picture to the right shows the molding style on the 72483X jumper.*

*Pictures below show EMHD and EM Flowsense installed on bracket.*



Figure C



Figure D



Figure B

Step 3. Use 3/8" inch hose to connect the outlet of the EM FlowSense to the inlet of the EMHD.  
The 3/8" inch hose will route through the bracket just as the jumper does.

Step 4. Mount the bracket to the row unit as shown below.  
Use the supplied carriage bolt and 1/2" inch socket to secure the bracket to the row unit.

#### **vApply HD turbines Removed Installation**

Step 1. Before installing the vApply HD to be used with the EM Flowsense, make sure the turbines have been removed from the module.

Step 2. Use same hardware provided to mount vApplyHD with the turbines removed from the module.

Step 3. For Non-flex style vApply HD module, 2 jumpers will be used to run from the expansion hub out to both the vApply HD and the EM FlowSense.

Step 4. Use 3/8" hose to run from the outlet on the EM FlowSense to the inlet of the vApply HD.

*Final Installation of the bracket is shown below with a turbines removed style vApply HD.*



**Figure E**

## Instructions for EMHD Upper parallel arm Bracket Kit (Kit # 724805)

### Product Compatibility:

- Can mount either EMHD with EM FlowSense or vApply HD with Turbines removed and EM Flowsense

### Row unit Compatibility:

- John Deere Row Units
- Kinze row units
- White 8000, 9000 row units
- Precision Planting Ready Row Units
- Case IH 1200 row units

The picture below shows the bracket and hardware by itself uninstalled.



### EMHD Mounting Instructions

Step 1. Mount the bracket on to the outside of the left parallel arm using the supplied 1" carriage bolt. The flow indicator on the bracket should point to the back side of the row unit as shown in Figure A.



Figure A



Figure B

Step 2. Attach the EMFS to the outer side of the bracket with 1" carriage bolt using the top mounting hole first. Make sure the flow direction arrow on the EMFS matches the direction on the arrow. The 6-pin connection should also be on the top side of the module in this orientation.

*Note: Figure B shows correct EMFS orientation.*

Step 3. Use the supplied 2" bolt and bushing to secure the EMHD and the EMFS on to the bracket on the lower mounting hole of both modules. The bushing will brace the bottom of the EMHD by spanning the width of the parallel arm as shown in Figure C.



**Figure C**



**Figure D**

Step 4. Use 3/8" hose to plumb between the outlet of the EM Flowsense module and the inlet of the EMHD.

Step 5. Use the sides and top of the bracket with the slots in order to zip tie the hose and keep it secure. The two 90 degree elbows also help to direct the hose.

Step 6. Plug the liquid system's coralating color jumper in to the EM Flowsense connection on the EMHD. The opposite connection will plug in to the EM Flowsense. Use the 72483X line of jumpers with this bracket.

**Figure E**



**Figure F**



### **vApply HD Turbines removed Installation**

Follow the steps 1 and 2 from the previous page to mount the bracket and EM Flowsense.

Step 1. Before installing the vApply HD to be used with the EM Flowsense, make sure the turbines have been removed from the module.

Step 2. Use the 2" bolt and bushing shown in Figure C to mount the vApply HD

Step 3. Secure the vApplyHD with the 2<sup>nd</sup> provided 1 ½" carriage bolt on the right mounting hole shown in figure G.

Step 4. Use 3/8" hose to plumb from the outlet of the EM Flowsense to the inlet of the vApply HD as shown below. Route along the top and sides of the bracket and secure with the provided zip-ties. Use the provided elbows to help with routing.

Step 5. Connect the modules to the Expansion hub on the row with the correlating-colored jumpers. Two jumpers will need to run to the expansion hub when using vApply HD modules.



**Figure G**

## Instructions for EMHD Upper parallel arm Bracket Kit (Kit # 724763)

### Product Compatibility:

- Use to mount only the Control pair EMHD and EM Flowsense together.
- This bracket enables the control pair to be mounted lower on the row unit.
- *Not compatible with vApply HD turbines removed.*

### Row unit Compatibility:

- John Deere Row Units
- Kinze row units (not on inner side of left parallel arm)
- White 8000, 9000 row units
- Precision Planting Ready Row Units
- Case IH 1200 row units

The picture below shows the bracket and hardware unstalled.



**Figure A**

Step 1. Using the provided precut tubing, plumb the outlet of the EM Flowsense to the EMHD. This is easier to do before the modules are mounted on the bracket.

Step 2. Mount the EMHD and EMFS as shown in Figure B. Use the provided flange nuts and washers to secure the modules.



**Figure B**

Step 3. Use the correlating color jumper to connect the EM Flowsense to the EMHD. The jumper will plug in to the port labeled EM Flowsense on the EMHD.

*Note: Use the 72473X line of jumpers with this bracket.*

Step 4. Mount the bracket and modules on the parallel arm where desired. There are multiple orientations that can be used with this bracket however, it is recommended to keep the modules mounted on the inside of the row unit for safety.

Figure C shows the bracket mounted on the inner side of the top left parallel arm.

**Figure C**



## Instructions for EMHD Rear-Application Bar Bracket Installation (Kit # 724825)

Product compatibility:

- Can mount either EMHD with EM FlowSense, or vApply HD (turbines removed) with EM FlowSense onto sidedress implements.

Figure A below shows the bracket and hardware by itself uninstalled.

\*Note. The U-Bolt being displayed is for a 7" x 7" sidedress bar, the kit also includes a U-Bolt for a 7" x 5" sidedress bar.



**Figure A**

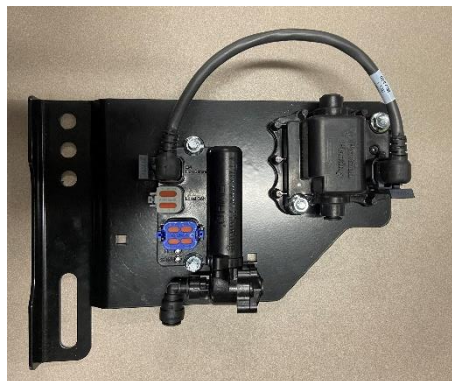
### EMHD Mounting Instructions

Step 1. Mount the EMHD and EM FlowSense onto the bracket as shown in Figure B below.

- Use the supplied 1" carriage bolts and a 1/2" socket to tighten the hardware and secure the modules.

Step 2. Use the corresponding color 6 pin CAN jumper 72483X as shown in Figure B below.

- \*Note. The jumper will be connected from the port on the EMHD labeled "EM FlowSense" to the actual FlowSense module.



**Figure B**

Step 3. Use 3/8" inch hose to connect the outlet of the EM FlowSense to the inlet of the EMHD.

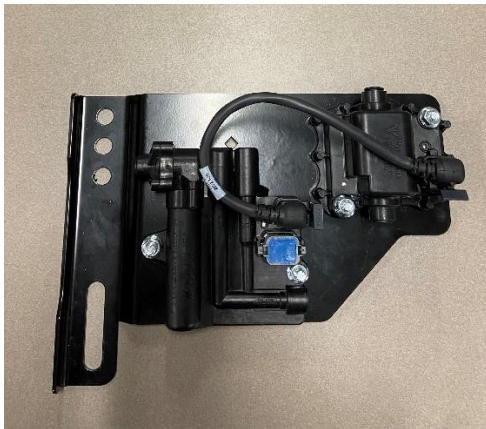
Step 4. Mount the bracket to the implement bar using either "7x7" or "7x5" U-Bolts, 1/2" washers, and 1/2" nuts as shown below.



#### **vApply HD Turbines Removed Installation**

Step 1. Mount the vApply HD with turbines removed and EM FlowSense using the same hardware provided to mount EMHD onto the bracket, as shown in Figure D below.

- \*Note. Before installing the vApply HD to be used with the EM Flowsense, make sure the turbines have been removed from the module.



Step 2. For Non-flex style vApply HD turbines removed module, 2 jumpers will be used to run from the expansion hub out to both the vApply HD turbines removed and the EM FlowSense.

Step 3. Use 3/8" hose to run from the outlet on the EM FlowSense to the inlet of the vApply HD turbines removed.

Step 4. Mount the bracket to the implement bar using either “7x7” or “7x5” U-Bolts, ½” washers, and ½” nuts as shown below.

