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360 DASH[™]

INSTALLATION INSTRUCTIONS

JOHN DEERE MAXEMERGE WITH MINI HOPPER AND

PRECISION PLANTING SPEEDTUBE

360YIELDCENTER.COM

FOR QUESTIONS PLEASE CONTACT OUR PRODUCT SUPPORT TEAM AT 309-300-3120

2.25.21 · V3

JD MAXEMERGE WITH MINI HOPPER





BEFORE YOU BEGIN RECOMMENDED TOOLS



Phillips Screwdriver

7/16" Wrench

1/2" Wrench

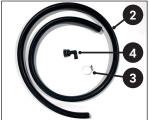
9/16" Wrench

1/4" Nut Driver

5/16" Nut Driver

STEP 1
INSTALL SYSTEM KIT (551100)







Locate the DASH Catch Test Kit (pn: 551102) 1.

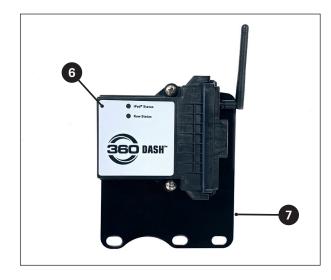
Remove the $\frac{3}{4}$ " EPDM hose 2, the hose clamp 3 and the $\frac{3}{4}$ " hose fitting 4.

NOTE: The use of a lubricant such as WD-40 on the hose barb may make the following step easier.

Keep the hose assembly with the graduated pitcher and the remaining hose fitting parts. Set these parts aside to be used when setting up the iPad app.

STEP 1 CONTINUED

INSTALL SYSTEM KIT (551100)



Locate the $\frac{1}{4}$ " machine screws, $\frac{1}{4}$ " washers, $\frac{1}{4}$ " Nylock nuts, the DASH hub (pn: 550950) \bigcirc and the DASH hub bracket \bigcirc .

Using a Phillips screwdriver and a 7/16" wrench or ratchet, attach the DASH hub to the mounting bracket ensuring it is oriented as shown in the picture above.

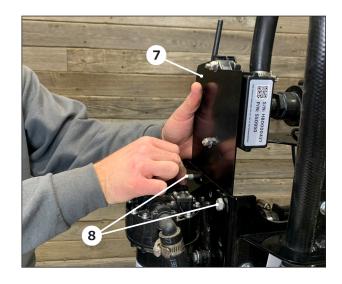
JD MAXEMERGE WITH MINI HOPPER





STEP 1 CONTINUED

INSTALL SYSTEM KIT (551100)



ELECTRIC PUMP OPTION

If you purchased the electric pump option from AgXcel, take the %" bolts, %" washers, and %" flange nuts 3 and attach the DASH hub bracket 7 to the AgXcel pump tower using a 9/16" wrench and ratchet.

STEP 1 CONTINUED

INSTALL SYSTEM KIT (551100)





HYDRAULIC PUMP OPTION

If you purchased the hydraulic pump option from AgXcel, you do not need the %" hardware from the box.

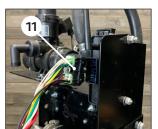
** THE PRESSURE SPIKE VALVE IS UNDER SPRING FORCE. DO NOT REMOVE ALL FOUR NUTS **

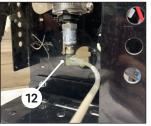
Using a 9/16" wrench and ratchet, remove the top two nuts from the pressure spike valve ①. Install the DASH hub bracket ⑦ on the bolts and reinstall the nuts.

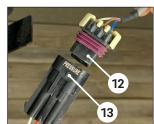
STEP 1 CONTINUED

INSTALL SYSTEM KIT (551100)









The DASH hub harness **10** has a mating connector for each connector on the pump tower.

Take the DASH hub harness (pn: 550819) and install the large rectangular connector onto the DASH hub using a %" nut driver.

The pump tower has two pressure sensors. The pressure sensor on the suction side of the pump wast be connected to the hub harness connector labeled "PRESSURE 1" 3.

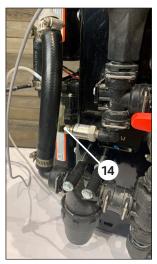
JD MAXEMERGE WITH MINI HOPPER

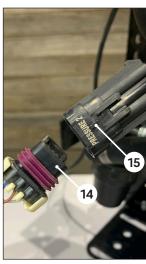




STEP 1 CONTINUED

INSTALL SYSTEM KIT (551100)

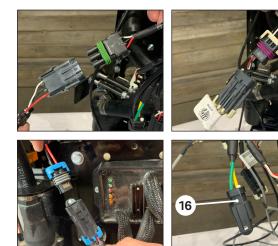




The pressure sensor on the outlet side of the pump was the connected to the hub harness connector labeled "PRESSURE 2" ...

STEP 1 CONTINUED

INSTALL SYSTEM KIT (551100)

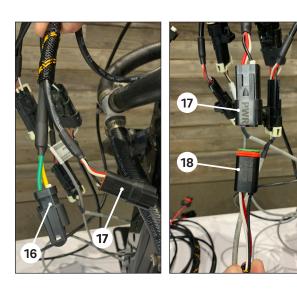


All other connectors are unique and will have only one mating connector on the hub harness. Locate and connect all remaining connectors on the pump tower components.

NOTE: The connector labeled "CAN" to is not used at this time and the factory installed cap should remain installed.

STEP 1 CONTINUED

INSTALL SYSTEM KIT (551100)



On the power harness (pn550822), locate the 4 position plug labeled "PWR" $^{\scriptsize \textcircled{1}}$. Find the mating connector on the DASH hub harness $^{\scriptsize \textcircled{2}}$ and connect the two.

JD MAXEMERGE WITH MINI HOPPER





STEP 1 CONTINUED

INSTALL SYSTEM KIT (551100)





The DASH hub power harness has two branches of jacketed cable. The shorter branch (about 24 inches long) has a 2 position plug and a 2 position receptacle and this is how the hub gets battery power.

NOTE: The jacketed cable with large gauge wire supplied by AgXcel must be routed to the batteries on the tractor. Do not connect this harness to the batteries on the planter.

If you purchased the **electric pump** option from AgXcel, these connectors will split the battery power harness into the electric pump controller **19**.

If you purchased the **hydraulic pump** option from AgXcel, the plug from the battery power harness will plug into the 2 position receptacle on the hub power harness ②.

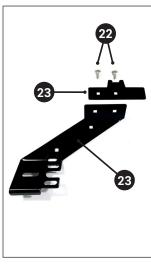
STEP 1 CONTINUED

INSTALL SYSTEM KIT (551100)



The longer branch (about 20 feet long) is how the hub gets switched key power. This branch should be routed to the nearest row. The end of this branch has a 3 position plug and a 3 position receptacle to split the flow meter connection on that row 2. The row harness and flow meter harness will be installed in a later step. There may be excessive cable length for the hub connections. A couple zip ties can be used to organize the excess cable.

STEP 2
ASSEMBLE BRACKET





For each row, take two 5/16" carriage bolts 2, two 5/16" washers, two 5/16" Nylock nuts, a universal DASH bracket 3 and a JD MaxEmerge with mini hopper bracket 4. Assemble the two brackets according to the picture using a ½" wrench or ratchet. Repeat for all remaining rows.

JD MAXEMERGE WITH MINI HOPPER





STEP 3 INSTALL BRACKET



Remove the Precision Vset meter and set it aside.
Remove the %" bolt holding the meter post to the row unit casting with a 9/16" wrench or ratchet. The meter post will be reinstalled, but the plastic spacer under the meter post can be discarded.

STEP 3 CONTINUED

INSTALL BRACKET









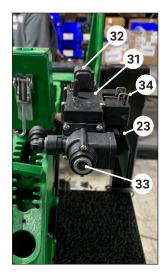
Install the DASH bracket assembly ② and provided metal spacer ③ on the row unit such that the bracket extends back and to the right.

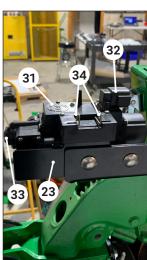
Reinstall the meter post and, using the 9/16" wrench or ratchet, secure with the %" bolt that was previously removed.

NOTE: The Precision Vset meter will be reinstalled following the installation of the row harness and plumbing components.

Repeat the bracket installation on the remaining rows.

STEP 4
INSTALL VALVE





Install one 360 DASH valve 30 onto each universal DASH bracket 33. The valve will be installed to the left of the bracket with the electrical connector facing 32 the planter bar and the 36" push-to-connect outlet 33 facing away from the planter. Verify the wire clips 34 are fully spread under the bracket tabs.

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360 DASH ROW KIT INSTALLATION INSTRUCTIONS FOR ROW KITS WITH 360 TURBINE

If you are using the **360 Turbine** complete your installation using the steps labeled "#A" on page 9.

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If you are using Precision Planting FlowSense complete your installation using the remaining steps labeled "#B" on page 11.

ROW KIT WITH 360 TURBINE





STEP 5A **INSTALL ROW HARNESS**





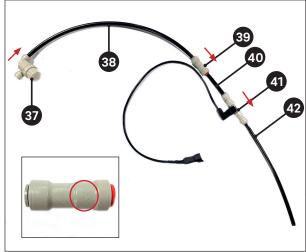
The row harness (pn: 550818) has two 6 position plugs. The connectors are color coded and labeled.

Plug the blue connector labeled EXPANSION 35 into an open port on the Precision CAN expansion module. This connector is keyed so that it cannot be plugged into the DASH valve.

NOTE: The flowmeter connector will be used in a later step.

Route the 6 position plug labeled DASH 33 and black jacketed cable along the side of the row unit and insert the plug into the connector on the DASH valve.

STEP 6A **ASSEMBLE PLUMBING**



NOTE: These parts can be pre assembled on the workbench to make install easier.

NOTE: The flow meter, check valve, and strainer must be installed in the correct orientation and correct order for proper operation. For each of these components there is an arrow indicating the direction of flow. The arrows should all point toward the DASH valve when installed correctly.

Locate and connect the following (in this order):

Strainer 37, 20" piece of black tubing 33, check valve 39, 4" piece of black tubing 40, flow meter 41 and 12" of black tubing 42.

STEP 7A **INSTALL PLUMBING PARTS**









Take the plumbing assembly and push the open end of the 12" tubing 42 into the inlet elbow 3%" push-to-connect fitting of the valve 43.

Plug in the flow meter connector 40 to the open 3 position plug on the row harness.

Locate the 36" piece of 3/8" OD soft tube 45 and push the plastic tube support 46 into the end of the tube. Insert the tube into the outlet push-to-connect fitting on the valve 47.

Route the outlet tube down to the applicator and install 48. Installation will vary based on type of applicator used.

NOTE: The outlet tube may be cut down to limit the excess tube but be careful to avoid pinch points when routing the tube.

Complete the plumbing install on the remaining rows.

Reinstall the vSet meter assembly on each row and secure the plumbing and wiring components to the row unit as needed.



360 DASH ROW KIT INSTALLATION INSTRUCTIONS FOR ROW KITS WITH FLOWSENSE

If you are using **Precision Planting FlowSense** complete your installation using the remaining steps labeled "#B" on page 10.

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If you are using the **360 Turbine** your installation should be complete at this time.

ROW KIT WITH FLOWSENSE





STEP 5B INSTALL ROW HARNESS





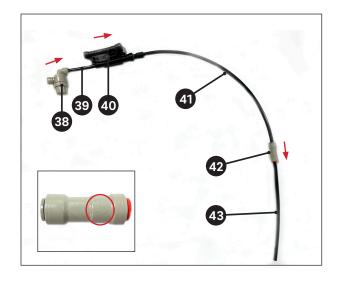
The row harness (pn: 550818) has two 6 position plugs. The connectors are color coded and labeled.

Plug the blue connector labeled EXPANSION into an open port on the Precision CAN expansion module. This connector is keyed so that it cannot be plugged into the DASH valve.

NOTE: The flowmeter connector will not be used and the factory installed cap should remain installed.

Route the 6 position plug labeled DASH 30 and black jacketed cable along the side of the row unit and insert the plug into the connector on the DASH valve.

STEP 6B ASSEMBLE PLUMBING



NOTE: This installation may vary depending on the location of the Precision FlowSense module.

NOTE: The flow meter, check valve, and strainer must be installed in the correct orientation for proper operation. For each of these components there is an arrow indicating the direction of flow. The arrows should all point toward the DASH valve when installed correctly.

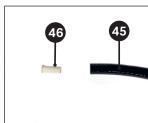
Locate and connect the following (in this order):

Strainer 33, 4" piece of black tubing 39, FlowSense flow meter 40, 20" piece of black tubing 40, check valve 42, and 12" piece of black tubing 43.

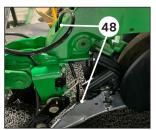
The strainer should be installed prior to the Precision FlowSense. The check valve should be installed between the strainer and the flow meter, but if the flow meter is too far away the check valve can be installed between the flow meter and DASH valve. This plumbing subassembly process can be duplicated for the remaining rows.

STEP 7B
INSTALL PLUMBING









Take the plumbing assembly and push the open end of the tubing ⁴⁹ into the inlet elbow ³/₆" push-to-connect fitting of the valve ⁴⁴.

Locate the 36" piece of 3/8" OD soft tube 45 and push the plastic tube support 45 into the end of the tube. Insert the tube into the outlet push-to-connect fitting on the valve 49.

Route the outlet tube down to the applicator and install 49. Installation will vary based on type of applicator used.

NOTE: The outlet tube may be cut down to limit the excess tube but be careful to avoid pinch points when routing the tube.

Complete the plumbing install on the remaining rows. Reinstall the Precision Vset meter assembly on each row and secure the plumbing and wiring components to the row unit as needed.

STORAGE SUGGESTIONS





INSTALLATION COMPLETE



STORAGE SUGGESTIONS

Proper maintenance and storage will ensure the 360 DASH valves operate properly the following year.

We recommend flushing the system with water for five minutes after all starter has been removed from the system.

Also, remember to properly winterize the system or remove the 360 DASH row components to prevent freeze damage.