



360 DASH™

INSTALLATION INSTRUCTIONS
JOHN DEERE EXACTEMERGE



360YIELDCENTER.COM

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

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BEFORE YOU BEGIN

RECOMMENDED TOOLS



Phillips Screwdriver

7/16" Wrench

1/2" Wrench

9/16" Wrench

5/8" or 18mm Wrench

1/4" Nut Driver

5/16" Nut Driver

STEP 1

INSTALL PUMP



Install the AgExcel electric or hydraulic pump on the planter using the instructions provided from AgExcel inside the pump box.

NOTE: For best performance of the 360 DASH hub, it is recommended to install the pump near the center of the planter.

STEP 2

INSTALL SYSTEM KIT (551100)



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

Remove the 3/4" EPDM hose **2**, the hose clamp **3** and the 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.

5 Place the hose clamp about 6 inches down the hose and press the hose barb fitting into the hose. Slide the hose clamp up toward the end of the hose where the hose clamp is covering the hose and the hose barb fitting (about 1/2" from the end of the hose). Tighten the clamp with a 5/16" nut driver.

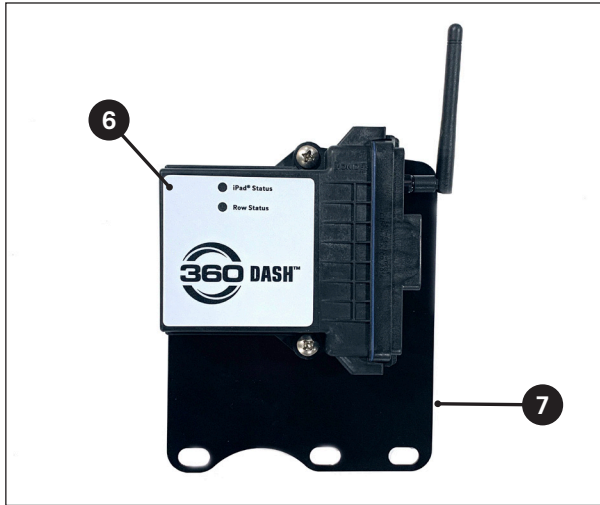
Keep the hose assembly with the graduated pitcher and the remaining hose fitting parts. Set these parts aside to be used when setting up the iPad app.

INSTALLATION INSTRUCTIONS

JOHN DEERE EXACTEMERGE



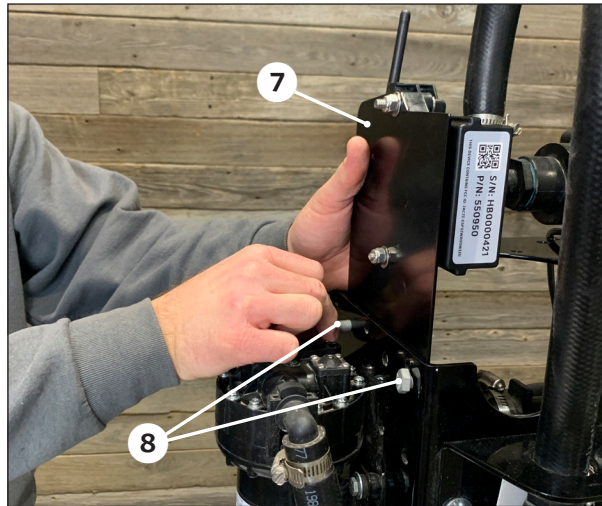
STEP 2 CONTINUED INSTALL SYSTEM KIT (551100)



Locate the 1/4" machine screws, 1/4" washers, 1/4" Nylock nuts, the DASH hub (pn: 550950) **6** and the DASH hub bracket **7**.

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.

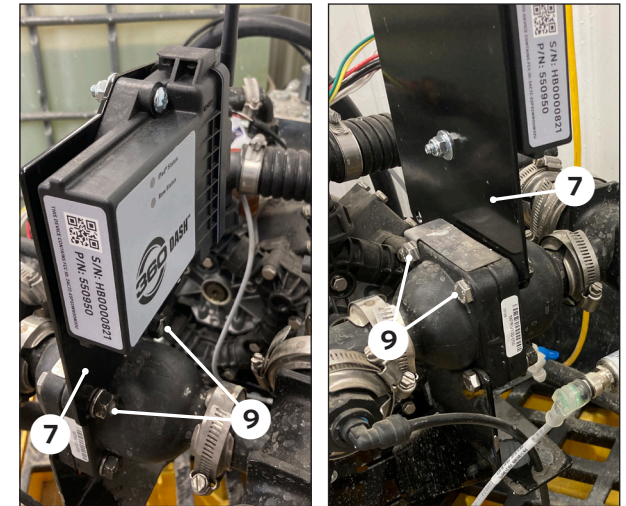
STEP 2 CONTINUED INSTALL SYSTEM KIT (551100)



ELECTRIC PUMP OPTION

If you purchased the electric pump option from AgXcel, take the 3/8" bolts, 3/8" washers, and 3/8" flange nuts **8** and attach the DASH hub bracket **7** to the AgXcel pump tower using a 9/16" wrench and ratchet.

STEP 2 CONTINUED INSTALL SYSTEM KIT (551100)



HYDRAULIC PUMP OPTION

If you purchased the hydraulic pump option from AgXcel, you do not need the 3/8" hardware from the box.

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

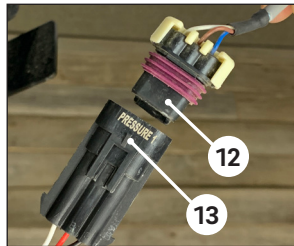
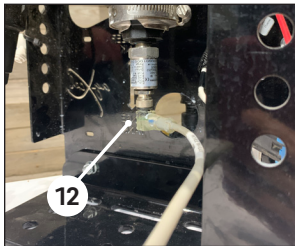
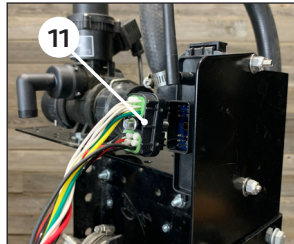
Using a 9/16" wrench and ratchet, remove the top two nuts from the pressure spike valve **9**. Install the DASH hub bracket **7** on the bolts and reinstall the nuts.

INSTALLATION INSTRUCTIONS

JOHN DEERE EXACTEMERGE



STEP 2 CONTINUED INSTALL SYSTEM KIT (551100)

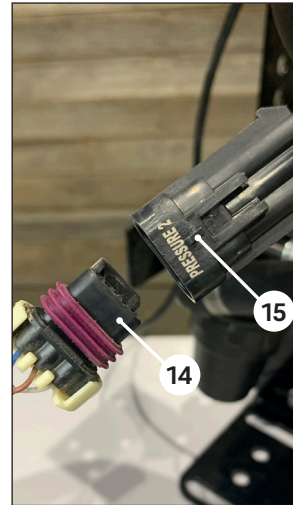
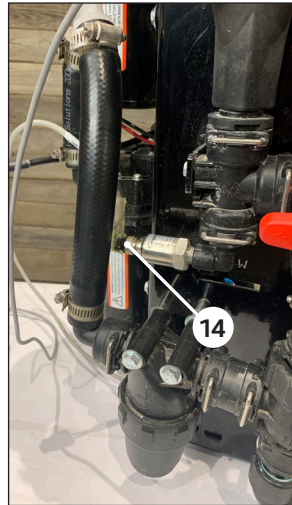


The DASH hub harness **10** has a mating connector for each connector on the pump tower.

Take the DASH hub harness (pn: 550819) and install the large rectangular connector **11** onto the DASH hub using a 1/4" nut driver.

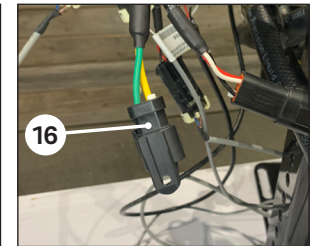
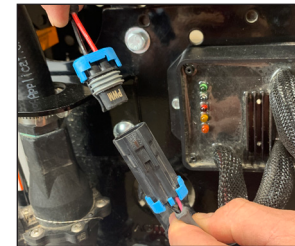
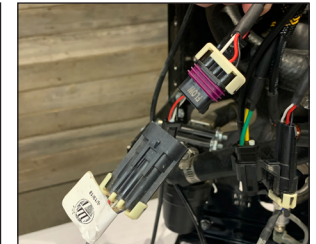
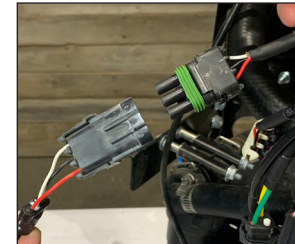
The pump tower has two pressure sensors. The pressure sensor on the suction side of the pump **12** must be connected to the hub harness connector labeled "PRESSURE 1" **13**.

STEP 2 CONTINUED INSTALL SYSTEM KIT (551100)



The pressure sensor on the outlet side of the pump **14** must be connected to the hub harness connector labeled "PRESSURE 2" **15**.

STEP 2 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.

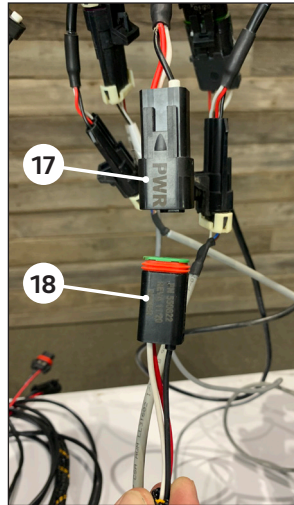
NOTE: The connector labeled "CAN" **16 is not used at this time and the factory installed cap should remain installed.**

INSTALLATION INSTRUCTIONS

JOHN DEERE EXACTEMERGE

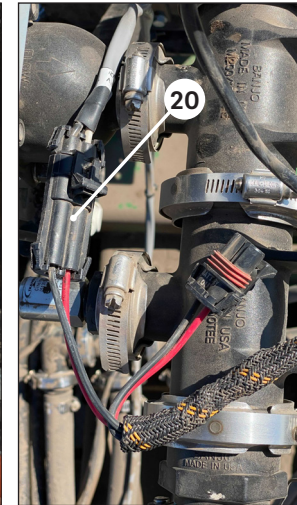


STEP 2 CONTINUED INSTALL SYSTEM KIT (551100)



On the power harness (pn550822), locate the 4 position plug labeled "PWR" ¹⁸. Find the mating connector on the DASH hub harness ¹⁷ and connect the two.

STEP 2 CONTINUED INSTALL SYSTEM KIT (551100)



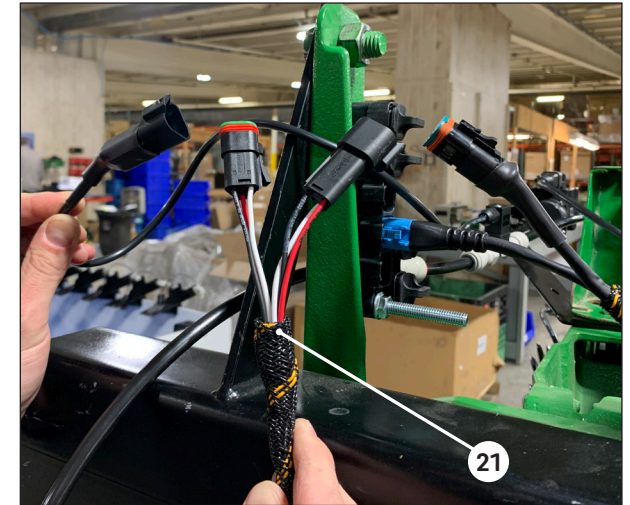
The DASH hub power harness has two branches of jacketed cable. The shorter branch (about 24 inches long) has a 2 position plug and a 2 position receptacle and this is how the hub gets battery power.

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 ²⁰.

STEP 2 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 ²¹. 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.

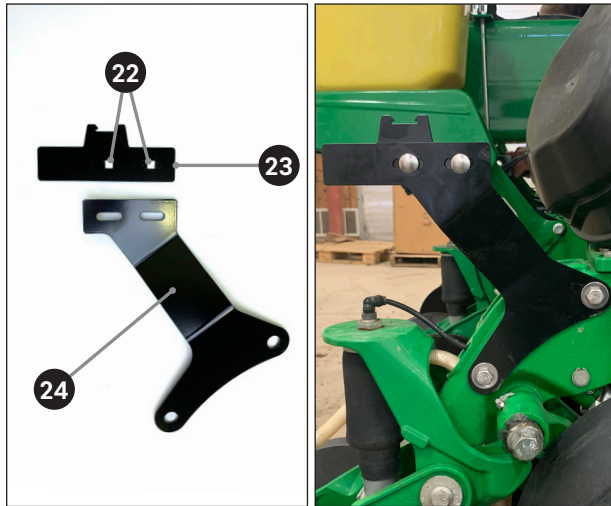
INSTALLATION INSTRUCTIONS

JOHN DEERE EXACTEMERGE



STEP 3

ASSEMBLE BRACKET



For each row, take two 5/16" carriage bolts ²², two 5/16" washers, two 5/16" Nylock nuts, a universal DASH bracket ²³ and a JD MaxEmerge 5 bracket ²⁴. Assemble the two brackets according to the picture using a 1/2" wrench or ratchet. Repeat for all remaining rows.

STEP 4

INSTALL BRACKET



The two holes on the other end of the JD MaxEmerge 5 bracket ²⁴ match up to the holes in the row unit casting.

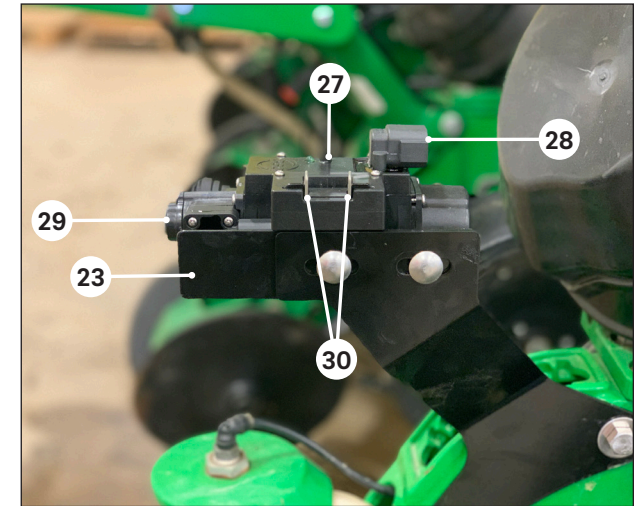
If your planter has insecticide boxes or other components installed using those holes, you may be able to reuse the existing hardware ²⁵. Install the DASH bracket on the right side of the row unit between the row unit casting and the insecticide box bracket so that the bracket angles backward (away from the row unit).

If these holes were previously unused on your planter, there are two 7/16" bolts, four 7/16" washers, and two 7/16" Nylock nuts for each row ²⁶. Install the bracket using the supplied hardware on the right side of the row unit with the bracket angled backward (away from the row unit).

Repeat the process for all remaining rows.

STEP 5

INSTALL VALVE



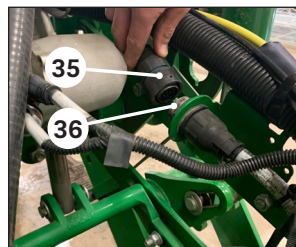
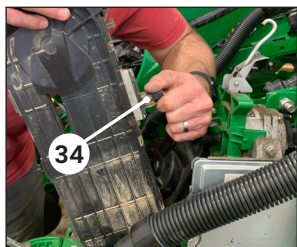
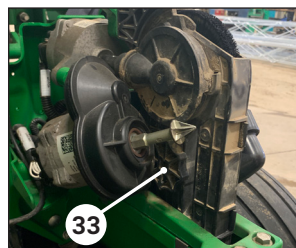
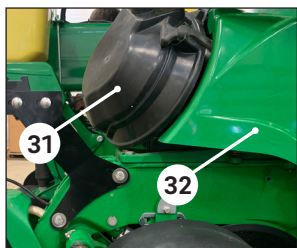
Install one 360 DASH valve ²⁷ onto each universal DASH bracket ²³. The valve will be installed to the left of the bracket with the electrical connector ²⁸ facing the planter bar and the 3/8" push-to-connect outlet ²⁹ facing away from the planter. Verify the wire clips ³⁰ are fully spread under the bracket tabs.

INSTALLATION INSTRUCTIONS

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STEP 6 INSTALL ROW HARNESS

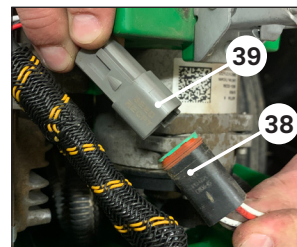
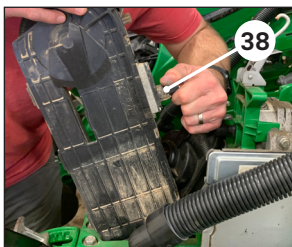
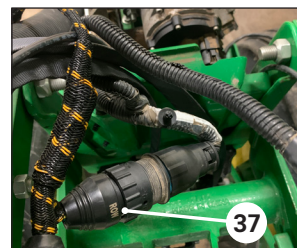


Unclip and remove the meter assembly **31** and plastic shroud **32**.

Rotate the tension knob **33** on the left side of the brush belt and pull it out of the shank far enough to access the seed sensor connector **34**.

Disconnect the backbone connection (black circular connectors) on the top right parallel arm **35** and remove the black retaining nut **36**.

STEP 6 CONTINUED INSTALL ROW HARNESS

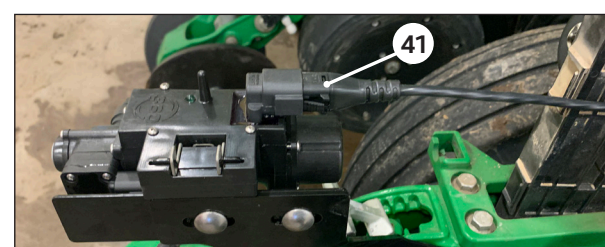


Take a row harness (550816) and starting at the planter backbone connectors, begin to install the DASH harness between the backbone connectors. Reinstall the retaining nut and spring washer on the connector labeled BACKBONE and twist the locking rings on the connectors to secure the connection **37**.

Unplug the connector from the seed sensor **38** and pull the connector and the black corrugated loom through the casting.

Install the 4 position plug into the 4 position receptacle on the DASH row harness **39**.

STEP 6 CONTINUED INSTALL ROW HARNESS



Feed the 4 position plug and black jacketed cable from the DASH row harness through the casting and install the plug into the seed sensor connector **40**. Tuck the excess black corrugated loom back into the row unit.

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

Route the 6 position plug labeled DASH and black jacketed cable along the right side of the row unit and insert the plug into the connector on the DASH valve **41**.

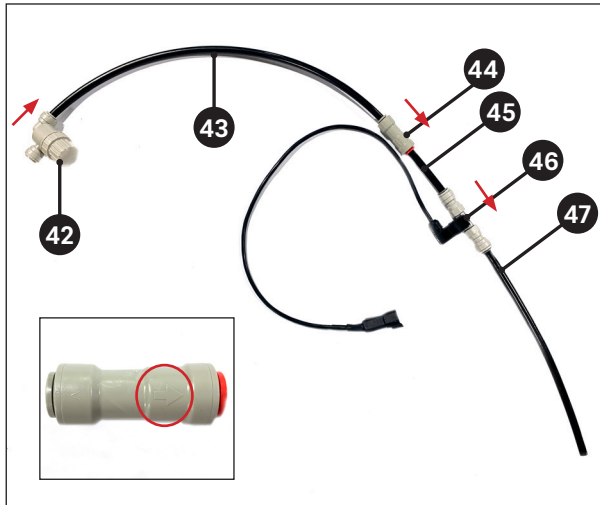
INSTALLATION INSTRUCTIONS

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STEP 7

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.

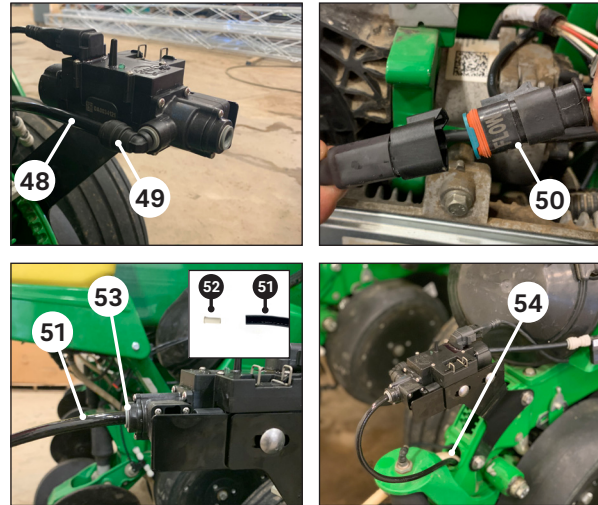
Locate and connect the following (in this order):

Strainer **42**, 20" piece of black tubing **43**, check valve **44**, 4" piece of black tubing **45**, flow meter **46** and 12" of black tubing **47**.

This plumbing subassembly process can be duplicated for the remaining rows.

STEP 8

INSTALL PLUMBING PARTS



Take the plumbing assembly and push the open end of the 12" tubing **48** into the inlet elbow 3/8" push-to-connect fitting of the valve **49**.

Plug in the flow meter connector **50** to the open 3 position plug on the row harness.

Locate the 36" piece of 3/8" OD soft tube **51** and push the plastic tube support **52** into the end of the tube. Insert the tube into the outlet push-to-connect fitting on the valve **53**.

Route the outlet tube down **54** to the applicator and install. 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 ExactEmerge meter assembly on each row. Secure plumbing and wiring to the row unit as needed.

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 5 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.