

SpeedTube™

vSet® Select

JD SmartBox Adapter Bracket

731145

Precision Planting®

The 731145 SmartBox Adapter Bracket provides support to the SmartBox mounting bracket once modifications have been made to allow clearance for the installation of SpeedTube or vSet Select.

731145	JD SmartBox Mounting Bracket Adapter Kit	
Part Number	Description	QTY
731146	JD Smartbox Adapter Bracket	1
731147	Hardware Kit	1
731154	JD Smartbox SRM Mounting Bracket	1
731217	Spacer, JD Smartbox Adapter	1



731147	Hardware Kit	
Part Number	Description	QTY
13054	5/16-18 x .88" Bolt	2
13059	5/16-18 x 1.5" Bolt	1
13060	5/16-18 x 1.75" Bolt	1
33080	5/16 Flat Washer	5
33082	3/8 Flat Washer	2
33620	Lock Washer	1
36304	5/16" Hex Nut	4
36306	3/8" Hex Nut	2
731227	2" x 4 3/16" 3/8 - 16 U-Bolt	1
NOTE: Not all hardware will be used in all installations.		

Step 1

Begin by uninstalling the meter, rear meter support post, and SmartBox mounting bracket. Figure 1 shows the uninstalled SmartBox mounting bracket.

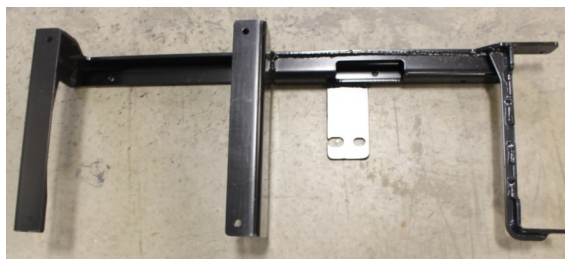


Figure 1

Step 2

Remove the cross brace that connects to the right hand row unit upright (when viewed from the rear of the planter). Use an angle grinder with cutting blade or, if properly supported, a chop saw. Figure 2a shows the cross brace to be removed. Figures 2b and 2c show the completed modification on both current and previous versions of the SmartBox mounting bracket.

Note: The edge should be ground smooth and any bare metal painted. See figure 2d.

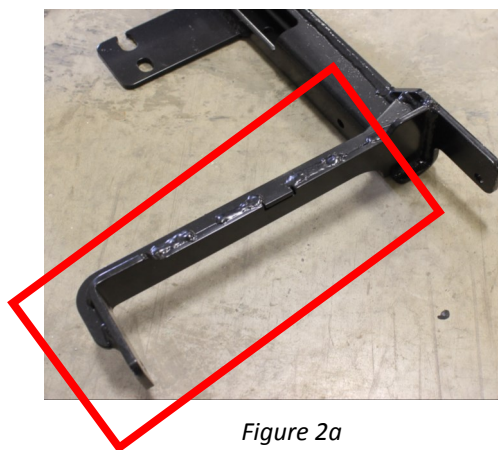


Figure 2a



Figure 2b



Figure 2c



Figure 2d

Step 3

Reinstall the modified SmartBox mounting bracket onto the row unit.

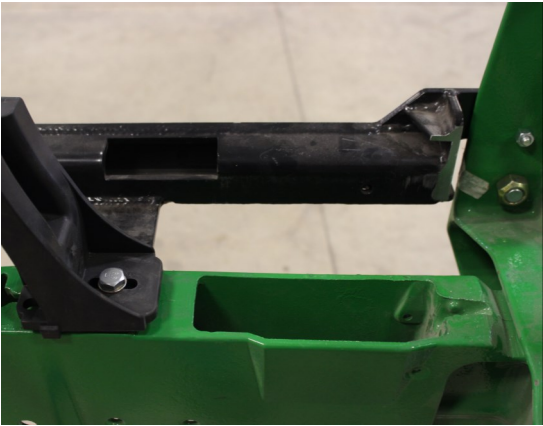


Figure 3

Step 4

Install the JD Rear Post Assembly (768307). Do NOT use the JD Rear Post Shim (768309). This thickness is provided by the SmartBox mounting bracket. See figure 4 for each row unit style. See figure 4b to see the post and bracket installed. Also, make sure to hold the mini-hopper latch assembly upright, above the mounting bracket, during the reassembly process (figure 4c).

XP Row Units	Max Emerge 5 Row Unit
	
Bolt the Rear Post Assembly (768307) to the shank. One M10 bolt will be used for the XP row units and securely until finger tight only.	Bolt the Rear Post Assembly (768307) to the shank. Both M10 bolts will be used for the ME5 row units and securely until finger tight only.

Figure 4a

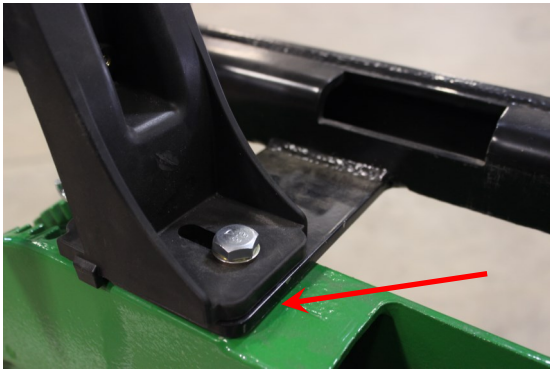


Figure 4b: Note the thickness of the shim (768309) is accounted for by the SmartBox mounting bracket.



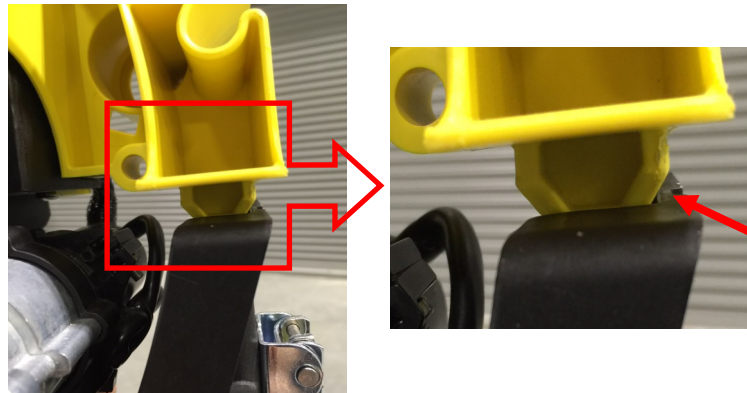
Figure 4c

Step 5

Start with the mounting bolts finger tight. Use the Dual Meter Assembly to establish the final position of the Rear Post Assembly. Position the front spanner bracket of the meter assembly on the seed hopper mounts and provide forward pressure on the meter assembly. Adjust the Rear Post Assembly into the correct position and tighten the M10 bolts to 20 lb-ft. When aligning the rear post, begin by resting the angled portion of the hopper seat point of the dual meter assembly on the post (see figure 5a).

Note: This step ensures proper alignment of the meter with the seed tube. The meter should be held in position by rearward pressure from the hopper mounts. See figures 5b and 5c for illustrations of proper and improper mounting.

Figure 5a: When positioning the rear post, rest the angled portion of the hopper seat point of the dual meter assembly on the post.



Correctly Positioned Meter:
Applies force to the rear of the spanner bracket

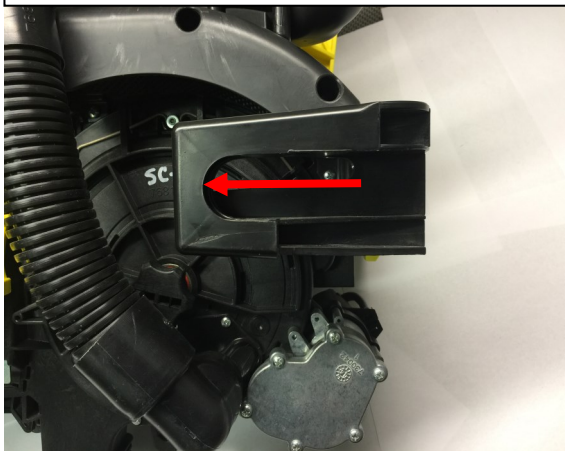


Figure 5b

Incorrectly Positioned Meter:
Meter rests on upper portion of spanner bracket

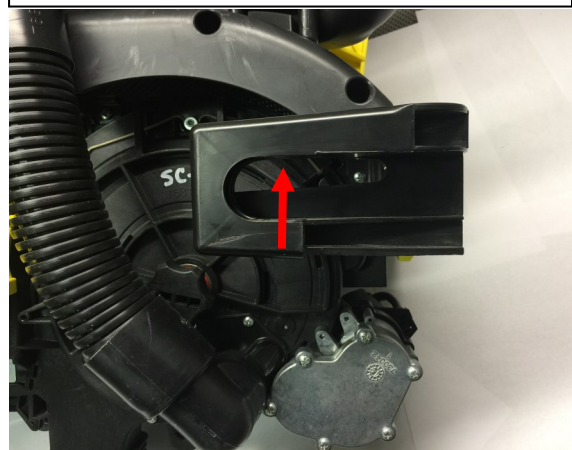


Figure 5c

Step 6

To begin installing the JD SmartBox mounting bracket adapter (731146), install the U-bolt (731227) from the outside of the row unit. Secure in place with 3/8" flat washers (33082) and 3/8" hex nuts (36306). Do not tighten down the nuts yet. Excess thread length may be removed.



Figure 6a

Note: Older versions of the SmartBox mounting bracket (figure 6b—solid 2"x2" square tube) will require the use of the spacer (731217) between the SmartBox mounting bracket and the Precision Planting Adapter bracket (731146). Newer versions of the mounting bracket (figure 6c—laser cut, formed, and welded) will NOT use this spacer. Align the rounded edge of the spacer to match the rounded edge of the 731146 bracket as shown in Figure 6d.



Figure 6b



Figure 6c



Figure 6d

Step 7

Secure the JD SmartBox adapter bracket to the right hand goal post.

Note: Production tolerance restrictions of the formed cross brace may leave a gap between the adapter bracket and the row unit goal post—this will be pulled up once firmly secured to the row unit.



Figure 7

Note: Different hardware will be used to secure the adapter bracket to the goal post for SpeedTube and vSet Select. For installation with SpeedTube, proceed to Step 8. For installation with vSet Select, proceed to Step 9.

Step 8: SpeedTube Installation

Secure using the hardware provided with the SRM Mounting Hardware Kit (729015). Refer to your SpeedTube installation instructions for specific instructions on harness routing and ladder & clip mounting. Now tighten the hex nuts on the U-bolts.

Installation Complete. Additional hardware in the SRM mounting hardware kit will not be used.

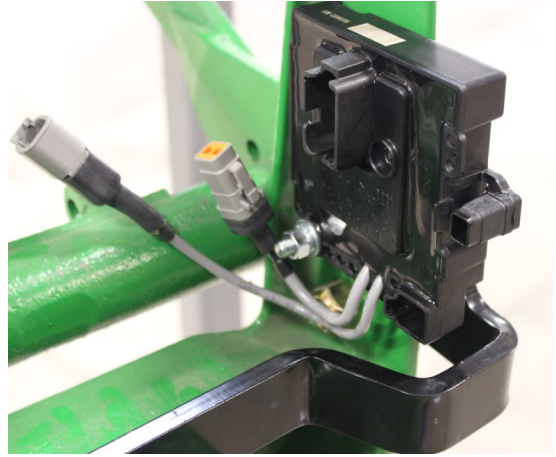


Figure 8

Step 9: vSet Select Installation

Secure using the provided one (1) 5/16" x 1.5" bolt, two (2) 5/16" flat washers, and one (1) 5/16" hex nut. Tighten the hex nuts on the U-bolts.



Figure 9

Step 10: vSet Select Installation

Install the SRM mounting bracket as shown in Figure 10.



Figure 10

Step 11: vSet Select Installation

Secure the bracket using two (2) 5/16" x 0.88" bolts, two (2) 5/16" flat washers, and two (2) 5/16" hex nuts.



Figure 11

Step 12: vSet Select Installation

Install the SRM UPSIDE DOWN (with serial numbers facing towards the ground) into the SRM mounting bracket. Secure the SRM using the provided 5/16" x 1.75" bolt, one (1) 5/16" lock washer, and one (1) 5/16" hex nut.



Figure 12

Note: For row units without a load sensor, use wire cutters to remove the plug from the side of the SRM and insert the plug into the empty connector.