

SMARTBOX[®] MOUNTING BRACKET INSTALLATION INSTRUCTIONS
JOHN DEERE[™] 1790 CCS[®] 12 & 16 Row PLANTERS – LADDER & REAR ROW MOUNT
Bracket Kit Part No. SB011161 & SB011162

Always use and follow planter manufacturers owner's manual recommended safety guidelines.

Prior to installation, unfold planter and leave the planter row units in the raised position.

See the attached Drawing No. SB016565, SB016566 & SB012538, the AMVAC SmartBox System Parts and Operator's Manual and www.amvacsmartbox.com (About SmartBox, then Videos) website for additional installation information.



- A. Start by unlatching the seed meter.



- B. Remove the black plastic spacer under the seed meter. This spacer will no longer be used.



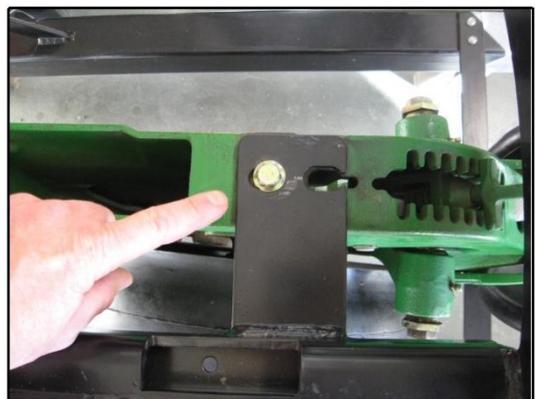
- C. Slide the SmartBox bracket into place under the seed meter.



- D. Attach the front left and right mounts through the existing holes in the planter's parallel arms using the 5/16" bolts, washers and locknuts provided.



- E. Fasten the bracket's rear mount with a M10 bolt using the threaded hole that was originally occupied by the black plastic spacer. Reinstall the seed meter.



Refer to the *AMVAC SmartBox System Parts and Operator's Manual* regarding the installation of the remainder of the system.

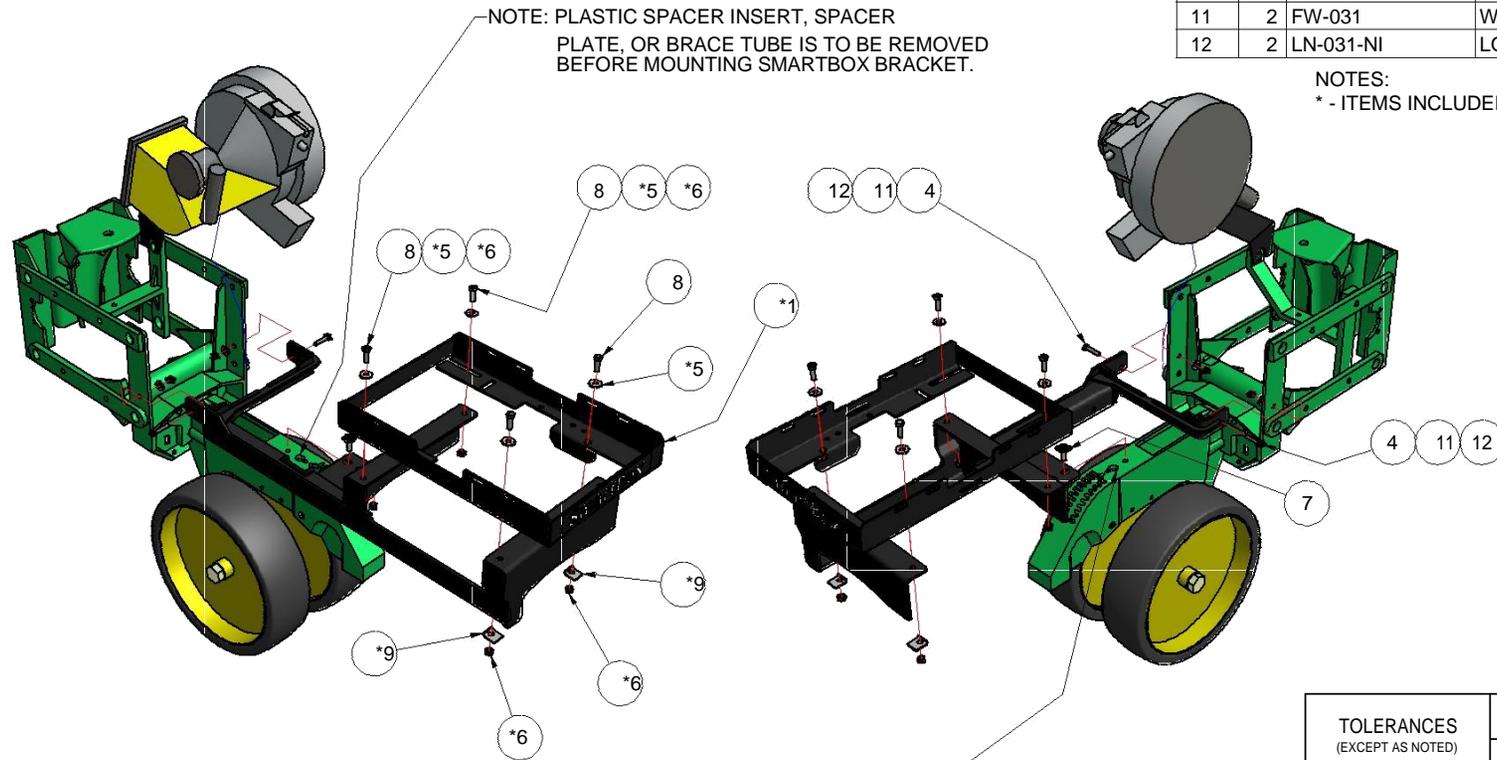
REVISION HISTORY

REV	DATE	DESCRIPTION	BY	ECO#
1	8/11/09	RELEASE TO PROTO	JJA	-
A	10/28/09	RELEASE TO PRODUCTION	JJA	7110

Parts List

ITEM	QTY	PART NO.	DESCRIPTION
*1	1	SBCA001	ASSY; SMARTBOX BASE CONT CRADLE
3	1	SB019650	WLDMT; XP & PRO ROW MT, GEN. II
4	2	BH-031-150-5	BOLT; 5/16 X 1.50 GRADE 5
*5	4	FW-031	WASHER, FLAT, 5/16
*6	4	LN-031-NI	LOCKNUT; 5/16" NYLON INSERT
7	1	BHF-050-125-8-YZ	BOLT, HEX FLANGE; M10 x 25 x 10.9 HRD, YZ
8	4	BH-031-100-5	BOLT; 5/16 X 1" GRADE 5
*9	2	SBC-010	CASE MOUNTING CLIP
11	2	FW-031	WASHER, FLAT, 5/16
12	2	LN-031-NI	LOCKNUT; 5/16" NYLON INSERT

NOTES:
* - ITEMS INCLUDED WITH SMARTBOX BASE ROW UNIT KIT



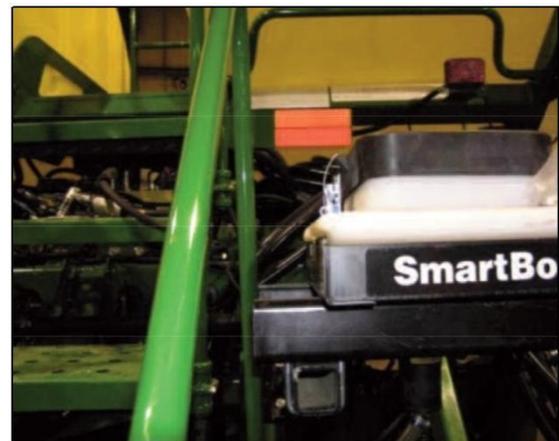
NOTE: PLASTIC SPACER INSERT, SPACER PLATE, OR BRACE TUBE IS TO BE REMOVED BEFORE MOUNTING SMARTBOX BRACKET.

<p>TOLERANCES (EXCEPT AS NOTED)</p> <p>2 PLACE DECIMALS .06 3 PLACE DECIMALS .030 ANGLES 1°</p>		<p>THE INFORMATION CONTAINED IN THIS DRAWING IS THE PROPERTY OF AMVAC CHEMICAL CORP. THIS DRAWING MAY NOT BE USED FOR MANUFACTURING WITHOUT THE WRITTEN PERMISSION OF AMVAC CHEMICAL CORP.</p> <p> AMVAC CHEMICAL CORPORATION</p>	
<p>DESCRIPTION KIT: JD SINGLE ROW XP & PRO. GEN II</p>		<p>REV A</p>	
<p>DRAWN JJA</p>	<p>SIZE B</p>	<p>DWG NO SB012538</p>	<p>DATE 8/11/2009</p>
<p>SCALE N/A</p>		<p>SHEET 1 OF 1</p>	

F. Mount the four (4) brackets to the planter frame (No 6 & 9). The brackets will mount to the 2 x 5 tubes supporting the 15-inch row units.

G. The channels will U-bolt (Nos.5 & 10) to the top of the brackets. The channels should be mounted as far forward as possible to achieve the most vertical drop. To properly space the channels, place a SmartBox® base cradle on the channels. The cradle will be bolted to the channels on one end, and the formed edge of the cradle will hook to the opposite channel. Tighten all bolts when proper spacing has been achieved. The channels are made long and can be shortened if needed.

H. For the right side ladder mounting kit, an offset plate will be used. (See diagram of SB021666 - No. 3, 8 & 11) Mount the SmartBox® base cradle and container as close to ladder as possible to achieve the most vertical drop.



I. Mount the base cradle with the SmartBox[®] logo to the rear, sliding the base cradle hooks into place on the ladder bracket. Attach the base cradle to the ladder bracket using the mounting clips, bolts, washers and nuts provided in the SmartBox[®] row unit hardware.

J. The SmartBox[®] base container (with meter installed on base container) can now be installed.

Note: Meter attachment to the base container for the ladder mount section will need to be secured at a 90° angle so the meter nipple delivering product faces the row it is feeding. See the meter installation instructions for proper installation.

Important: After installation, check that all of the planter's required factory installed safety features are intact and fully functional. Roadway lights and reflective materials, including the SMV emblem must

not be obscured. Mechanical service locks and hydraulic shutoff valves must remain functional and accessible. All safety signs must be visible and readable. Reposition the red tail lights, SMV sign and reflective bracket as shown below. The parts needed are provided with the hardware.

K. Remove the red tail lights from the existing mounts. Remove the two bolts that hold the turn indicator light bracket on both the left and right side of the planter. Install the new red tail lamp bracket (No 15.) provided with the kit as shown. Reassemble with the longer bolts provided with the kit.

Disassemble the red tail lamp from its existing mount. Disconnect the bulb from the red tail lamp fixture. Upon reassembling the bulb and read tail lamp to the new red tail lamp bracket, some plastic ties may need to be cut along the wire harness to allow enough length to reach properly. Tie down any loose wire harness with the plastic ties provided.

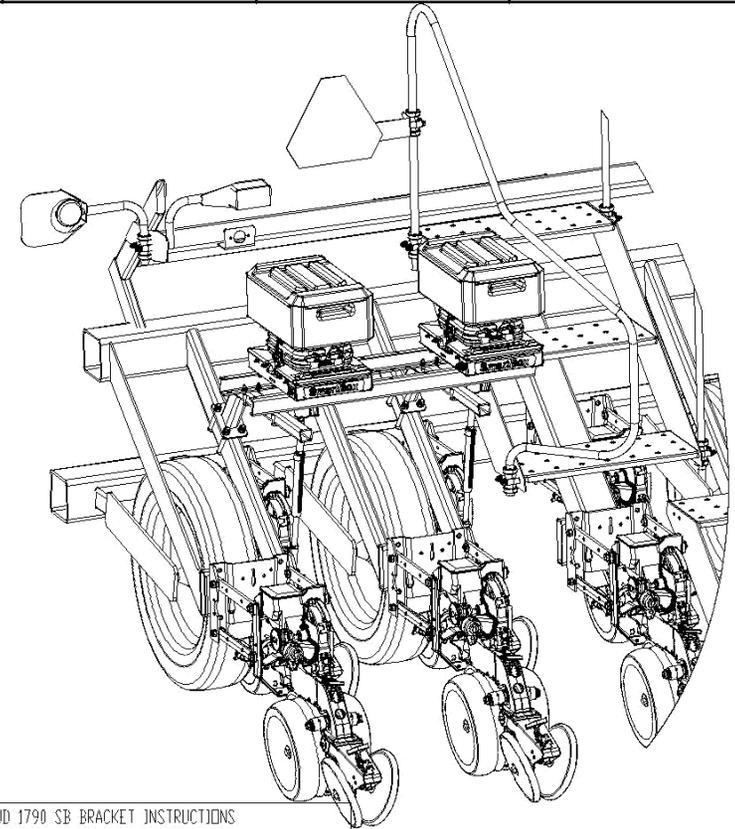
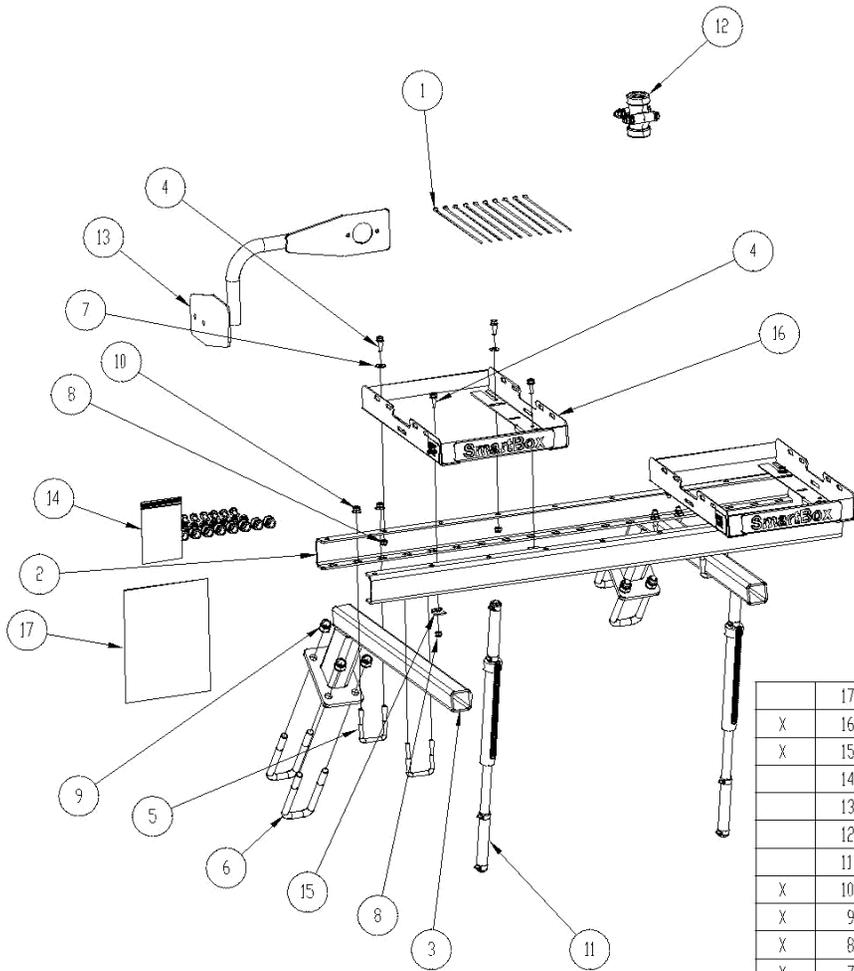


- L. Remove the top-side handrail brackets and slide the gaskets (No. H215556) up the handrail. Reattach the handrail brackets to the stairway assembly. Attach the SMV bracket and reflector bracket to the newly installed John Deere™ parts (No. 14). The new parts should be positioned 20-inches above the handrail brackets. Repeat on other side.



REVISIONS

REV	DATE	DESCRIPTION	BY	ECD
B	9/4/13	ADDED DRAWING AND UPDATE BDM	ATM	7631



	17	1	WF-2013-07	LIT; JD 1790 SB BRACKET INSTRUCTIONS
X	16	2	SBCA001	ASSY; CRADLE COMPLETE
X	15	4	SBC-010	CASE MOUNTING CLIP
	14	1	SBBOP9	PARTS BAG; SB LADDER BRACKET
	13	1	SB013593	WLDMT; JD 1790 LGHT BRCKT LEFT SIDE
	12	1	SB013237-1	CLAMP; JD STEP RAIL
	11	2	SB012433	KIT; SB SLIDE TUBE
X	10	8	NTF-038-TL-8	NUT, FLANGE; 3/8", TOP LOCK, GR8
X	9	8	LN-062-NI	LOCKNUT, NYLON INSERT; 5/8", GR5
X	8	8	LN-031-NI	LOCKNUT, NYLON INSERT; 5/16", GR5
X	7	4	FW-031	WASHER, FLAT; 5/16"
	6	4	BU062-200-650-5	U-BOLT; 3/4" X 2" X 8" GR 5 S0
	5	4	BU038-200-300-5	U-BOLT; 3/8" X 2" X 3" GR5 S0
X	4	8	BHF-031-100-5	BOLT, FLG; 5/16"x1" GR 5
	3	2	009484	WELDMENT; REAR CENTER BRACKET
	2	2	009473	CHANNEL; JD MOUNT BRACKET
	1	10	3NS12	STRAP; 1/4" BLACK
NOTE:	ITEM NO.	QTY.	PART NUMBER	DESCRIPTION

NOTES:
X = ITEMS INCLUDED IN PARTS BAG SUBASSEMBLY, OR DIFFERENT LINE ITEM.

MATERIAL: Material (not specified)		APPROX. WEIGHT: 1724.61LBS	
DIMENSIONS ARE IN INCHES.		TOLERANCES EXCEPT AS NOTED: 2 PLACE DECIMALS ± .05 3 PLACE DECIMALS ± .020 ANGLES ± 1°	
THIRD ANGLE PROJECTION		 AMVAC CHEMICAL CORPORATION KIT; 1790 LH LADDER BRACKET DWG NO: SB016565	
DRAWN: ATM	SIZE: B	DATE: 9/2/13	SCALE: N/A
		SHEET 1 OF 1	