

INSTALLATION INSTRUCTIONS - 122200-213 Rev. A

PinPoint™ II BOOM KITS

Models: AGCO RoGator C Series Sprayers 2018 and After

BEFORE INSTALLATION

IMPORTANT: For safety information, refer to the system and machine manuals.

BOOM KIT LIST

90 ft Boom Kit with 10 in Spacing - 930074D1

Part Number	Description	Qty
118400-137	15-Nozzle/10-in Spacing VCM Assembly	5
118400-136	9-Nozzle/10-in Spacing VCM Assembly	4
118650-005	5 ft/6-Conductor Extension	1
118650-010	10 ft/6-Conductor Extension	1
118650-015	15 ft/6-Conductor Extension	1
118650-020	20 ft/6-Conductor Extension	1
118650-025	25 ft/6-Conductor Extension	1
118650-030	30 ft/6-Conductor Extension	1
118650-035	35 ft/6-Conductor Extension	1
118650-040	40 ft/6-Conductor Extension	1
118650-045	45 ft/6-Conductor Extension	1
118650-050	50 ft/6-Conductor Extension	1
118673-001	5 ft/2-Conductor Extension	2
122100-001	CapView II Display	1
122101-025	PinPoint™ II Gateway Hub	1
122101-104	PinPoint™ II Gateway Hub Cover	1
706530-347	2-Pin DT Dust Plug	1
706530-356	12-Pin DT Dust Plug	1
706530-348	6-Pin DT Dust Plug	2
116200-045	2-Pin Tower WP Dust Plug	10
118640-040	PinPoint™ Key Fob	1
122015-001	PinPoint™ II Thumb Drive	1
142290-112	Left-Hand A15/7 Watt AGCO Nozzle Body Assembly	2
142290-111	Right-Hand A15/7 Watt AGCO Nozzle Body Assembly	105
188640-200	SIM Box Assembly	1

90 ft Boom Kit with 15 in Spacing - 930075D1

Part Number	Description	Qty
118400-125	15-Nozzle/15-in Spacing VCM Assembly	4
118400-135	9-Nozzle/15-in Spacing VCM Assembly	3
118650-005	5 ft/6-Conductor Extension	1
118650-010	10 ft/6-Conductor Extension	1
118650-015	15 ft/6-Conductor Extension	1
118650-020	20 ft/6-Conductor Extension	1
118650-025	25 ft/6-Conductor Extension	1
118650-030	30 ft/6-Conductor Extension	1
118650-035	35 ft/6-Conductor Extension	1
118650-040	40 ft/6-Conductor Extension	1
122100-001	CapView II Display	1
122101-025	PinPoint™ II Gateway Hub	1
122101-104	PinPoint™ II Gateway Hub Cover	1
706530-347	2-Pin DT Dust Plug	1
706530-356	12-Pin DT Dust Plug	1
706530-348	6-Pin DT Dust Plug	4
116200-045	2-Pin Tower WP Dust Plug	16
118640-040	PinPoint™ Key Fob	1
122015-001	PinPoint™ II Thumb Drive	1
142290-112	Left-Hand A15/7 Watt AGCO Nozzle Body Assembly	2
142290-111	Right-Hand A15/7 Watt AGCO Nozzle Body Assembly	69
188640-200	SIM Box Assembly	1

90 ft Boom Kit with 20 in Spacing - 930076D1

Part Number	Description	Qty
118400-126	15-Nozzle/20-in Spacing VCM Assembly	2
118400-134	9-Nozzle/20-in Spacing VCM Assembly	3
118650-005	5 ft/6-Conductor Extension	1
118650-010	10 ft/6-Conductor Extension	1
118650-015	15 ft/6-Conductor Extension	1
118650-035	35 ft/6-Conductor Extension	1
118650-040	40 ft/6-Conductor Extension	1
122100-001	CapView II Display	1
122101-025	PinPoint™ II Gateway Hub	1
122101-104	PinPoint™ II Gateway Hub Cover	1
142290-111	Right-Hand A15/7 Watt AGCO Nozzle Body Assembly	54

Part Number	Description	Qty
706530-347	2-Pin DT Dust Plug	1
706530-356	12-Pin DT Dust Plug	1
706530-348	6-Pin DT Dust Plug	6
116200-045	2-Pin Tower WP Dust Plug	3
118640-040	PinPoint™ Key Fob	1
122015-001	PinPoint™ II Thumb Drive	1
188640-200	SIM Box Assembly	1

100 ft Boom Kit with 10 in Spacing - 930077D1

Part Number	Description	Qty
118400-137	15-Nozzle/10-in Spacing VCM Assembly	7
118400-136	9-Nozzle/10-in Spacing VCM Assembly	2
118650-005	5 ft/6-Conductor Extension	1
118650-010	10 ft/6-Conductor Extension	1
118650-015	15 ft/6-Conductor Extension	1
118650-020	20 ft/6-Conductor Extension	1
118650-025	25 ft/6-Conductor Extension	1
118650-030	30 ft/6-Conductor Extension	1
118650-035	35 ft/6-Conductor Extension	1
118650-040	40 ft/6-Conductor Extension	1
118650-045	45 ft/6-Conductor Extension	1
118650-050	50 ft/6-Conductor Extension	1
118673-001	5 ft/2-Conductor Extension	2
122100-001	CapView II Display	1
122101-025	PinPoint™ II Gateway Hub	1
122101-104	PinPoint™ II Gateway Hub Cover	1
706530-347	2-Pin DT Dust Plug	1
706530-356	12-Pin DT Dust Plug	1
706530-348	6-Pin DT Dust Plug	2
116200-045	2-Pin Tower WP Dust Plug	4
118640-040	PinPoint™ Key Fob	1
122015-001	PinPoint™ II Thumb Drive	1
142290-112	Left-Hand A15/7 Watt AGCO Nozzle Body Assembly	2
142290-111	Right-Hand A15/7 Watt AGCO Nozzle Body Assembly	117
188640-200	SIM Box Assembly	1

100 ft Boom Kit with 15 in Spacing - 930078D1

Part Number	Description	Qty
118400-125	15-Nozzle/15-in Spacing VCM Assembly	4
118400-135	9-Nozzle/15-in Spacing VCM Assembly	3
118650-005	5 ft/6-Conductor Extension	1
118650-010	10 ft/6-Conductor Extension	1
118650-015	15 ft/6-Conductor Extension	1
118650-020	20 ft/6-Conductor Extension	1
118650-025	25 ft/6-Conductor Extension	1
118650-035	35 ft/6-Conductor Extension	1
118650-040	40 ft/6-Conductor Extension	1
122100-001	CapView II Display	1
122101-025	PinPoint™ II Gateway Hub	1
122101-104	PinPoint™ II Gateway Hub Cover	1
706530-347	2-Pin DT Dust Plug	1
706530-356	12-Pin DT Dust Plug	1
706530-348	6-Pin DT Dust Plug	4
116200-045	2-Pin Tower WP Dust Plug	8
118640-040	PinPoint™ Key Fob	1
122015-001	PinPoint™ II Thumb Drive	1
142290-112	Left-Hand A15/7 Watt AGCO Nozzle Body Assembly	2
142290-111	Right-Hand A15/7 Watt AGCO Nozzle Body Assembly	77
188640-200	SIM Box Assembly	1

100 ft Boom Kit with 20 in Spacing - 930079D1

Part Number	Description	Qty
118400-126	15-Nozzle/20-in Spacing VCM Assembly	4
118400-134	9-Nozzle/20-in Spacing VCM Assembly	1
118650-005	5 ft/6-Conductor Extension	1
118650-010	10 ft/6-Conductor Extension	1
118650-015	15 ft/6-Conductor Extension	1
118650-035	35 ft/6-Conductor Extension	1
118650-040	40 ft/6-Conductor Extension	1
122100-001	CapView II Display	1
122101-025	PinPoint™ II Gateway Hub	1
122101-104	PinPoint™ II Gateway Hub Cover	1
142290-111	Right-Hand A15/7 Watt AGCO Nozzle Body Assembly	60
706530-347	2-Pin DT Dust Plug	1

Part Number	Description	Qty
706530-356	12-Pin DT Dust Plug	1
706530-348	6-Pin DT Dust Plug	6
116200-045	2-Pin Tower WP Dust Plug	9
118640-040	PinPoint™ Key Fob	1
122015-001	PinPoint™ II Thumb Drive	1
188640-200	SIM Box Assembly	1

120 ft Boom Kit with 10 in Spacing - 930080D1

Part Number	Description	Qty
118400-137	15-Nozzle/10-in Spacing VCM Assembly	5
118400-136	9-Nozzle/10-in Spacing VCM Assembly	8
118650-005	5 ft/6-Conductor Extension	1
118650-010	10 ft/6-Conductor Extension	5
118650-015	15 ft/6-Conductor Extension	1
118650-025	25 ft/6-Conductor Extension	1
118650-030	30 ft/6-Conductor Extension	1
118650-040	40 ft/6-Conductor Extension	1
118650-045	45 ft/6-Conductor Extension	1
118650-055	55 ft/6-Conductor Extension	1
118650-060	60 ft/6-Conductor Extension	1
118640-032	6-Conductor Y-Adapter	4
122100-001	CapView II Display	1
122101-025	PinPoint™ II Gateway Hub	1
122101-104	PinPoint™ II Gateway Hub Cover	1
142290-111	Right-Hand A15/7 Watt AGCO Nozzle Body Assembly	139
706530-347	2-Pin DT Dust Plug	1
706530-356	12-Pin DT Dust Plug	1
706530-348	6-Pin DT Dust Plug	2
116200-045	2-Pin Tower WP Dust Plug	4
118640-040	PinPoint™ Key Fob	1
122015-001	PinPoint™ II Thumb Drive	1
142290-112	Left-Hand A15/7 Watt AGCO Nozzle Body Assembly	4
188640-200	SIM Box Assembly	1

120 ft Boom Kit with 15 in Spacing - 930081D1

Part Number	Description	Qty
118400-125	15-Nozzle/15-in Spacing VCM Assembly	4
118400-135	9-Nozzle/15-in Spacing VCM Assembly	5
118650-005	5 ft/6-Conductor Extension	1
118650-010	10 ft/6-Conductor Extension	1
118650-015	15 ft/6-Conductor Extension	1
118650-025	25 ft/6-Conductor Extension	1
118650-030	30 ft/6-Conductor Extension	1
118650-040	40 ft/6-Conductor Extension	1
118650-045	45 ft/6-Conductor Extension	1
118650-050	50 ft/6-Conductor Extension	1
118650-055	55 ft/6-Conductor Extension	1
122100-001	CapView II Display	1
122101-025	PinPoint™ II Gateway Hub	1
122101-104	PinPoint™ II Gateway Hub Cover	1
142290-111	Right-Hand A15/7 Watt AGCO Nozzle Body Assembly	93
706530-347	2-Pin DT Dust Plug	1
706530-356	12-Pin DT Dust Plug	1
706530-348	6-Pin DT Dust Plug	2
116200-045	2-Pin Tower WP Dust Plug	10
118640-040	PinPoint™ Key Fob	1
122015-001	PinPoint™ II Thumb Drive	1
142290-112	Left-Hand A15/7 Watt AGCO Nozzle Body Assembly	2
188640-200	SIM Box Assembly	1

120 ft Boom Kit with 20 in Spacing- 930082D1

Part Number	Description	Qty
118400-134	9-Nozzle/20-in Spacing VCM Assembly	9
118650-005	5 ft/6-Conductor Extension	1
118650-010	10 ft/6-Conductor Extension	1
118650-015	15 ft/6-Conductor Extension	1
118650-025	25 ft/6-Conductor Extension	1
118650-040	40 ft/6-Conductor Extension	1
118650-045	45 ft/6-Conductor Extension	1
118650-050	50 ft/6-Conductor Extension	1
118650-055	55 ft/6-Conductor Extension	1
122100-001	CapView II Display	1

Part Number	Description	Qty
122101-025	PinPoint™ II Gateway Hub	1
122101-104	PinPoint™ II Gateway Hub Cover	1
142290-111	Right-Hand A15/7 Watt AGCO Nozzle Body Assembly	70
706530-347	2-Pin DT Dust Plug	1
706530-356	12-Pin DT Dust Plug	1
706530-348	6-Pin DT Dust Plug	2
116200-045	2-Pin Tower WP Dust Plug	9
118640-040	PinPoint™ Key Fob	1
122015-001	PinPoint™ II Thumb Drive	1
142290-112	Left-Hand A15/7 Watt AGCO Nozzle Body Assembly	2
188640-200	SIM Box Assembly	1

120 ft Aluminum Boom Kit with 20 in Spacing - 930083D1

Part Number	Description	Qty
118400-134	9-Nozzle/20-in Spacing VCM Assembly	7
118400-138	4 and 5-Nozzle/20-in Spacing VCM Assembly	2
118650-010	10 ft/6-Conductor Extension	1
118650-015	15 ft/6-Conductor Extension	1
118650-025	25 ft/6-Conductor Extension	1
118650-030	30 ft/6-Conductor Extension	1
118650-040	40 ft/6-Conductor Extension	1
118650-045	45 ft/6-Conductor Extension	1
118650-050	50 ft/6-Conductor Extension	1
118650-055	55 ft/6-Conductor Extension	1
122100-001	CapView II Display	1
122101-025	PinPoint™ II Gateway Hub	1
122101-104	PinPoint™ II Gateway Hub Cover	1
142290-111	Right-Hand A15/7 Watt AGCO Nozzle Body Assembly	72
706530-347	2-Pin DT Dust Plug	1
706530-356	12-Pin DT Dust Plug	1
706530-348	6-Pin DT Dust Plug	2
116200-045	2-Pin Tower WP Dust Plug	9
118640-040	PinPoint™ Key Fob	1
122015-001	PinPoint™ II Thumb Drive	1
142290-112	Left-Hand A15/7 Watt AGCO Nozzle Body Assembly	1
188640-200	SIM Box Assembly	1

132 ft Aluminum Boom Kit with 20 in Spacing - 930084D1

Part Number	Description	Qty
118400-134	9-Nozzle/20-in Spacing VCM Assembly	7
118400-126	15-Nozzle/20-in Spacing VCM Assembly	2
118650-010	10 ft/6-Conductor Extension	1
118650-015	15 ft/6-Conductor Extension	1
118650-025	25 ft/6-Conductor Extension	1
118650-030	30 ft/6-Conductor Extension	1
118650-040	40 ft/6-Conductor Extension	1
118650-045	45 ft/6-Conductor Extension	1
118650-050	50 ft/6-Conductor Extension	1
118650-055	55 ft/6-Conductor Extension	1
122100-001	CapView II Display	1
122101-025	PinPoint™ II Gateway Hub	1
122101-104	PinPoint™ II Gateway Hub Cover	1
142290-111	Right-Hand A15/7 Watt AGCO Nozzle Body Assembly	80
706530-347	2-Pin DT Dust Plug	1
706530-356	12-Pin DT Dust Plug	1
706530-348	6-Pin DT Dust Plug	2
116200-045	2-Pin Tower WP Dust Plug	13
118640-040	PinPoint™ Key Fob	1
122015-001	PinPoint™ II Thumb Drive	1
188640-200	SIM Box Assembly	1

INSTALLATION

Nozzle Body/Valve Assembly

FIGURE 1: There are right-hand (1) and left-hand (2) nozzle bodies/valve assemblies used during this installation.

Make sure that you know the locations of the left-hand nozzle body/valve assembly. The left-hand version is used for clearance reasons.

Configurations that require a left-hand nozzle body/valve assembly include:

Configuration	Left-Hand Nozzle Location	Boom Area
90 ft with 10 in Spacing	18, 48	Left Inner Boom
90 ft with 15 in Spacing	12, 32	Left Inner Boom
100 ft with 10 in Spacing	24, 54	Left Inner Boom
100 ft with 15 in Spacing	16, 36	Left Inner Boom
120 ft by 10 in Spacing	17, 34, 66, 11	Left Outer, Left Inner, Right Outer Boom
120 ft by 15 in Spacing	44, 74	Left Inner, Right Outer Boom
120 ft by 20 in Spacing	9, 56	Left Inner, Right Outer Boom



FIGURE 1

Valve Control Module (VCM) Installation

Depending on the boom configuration, different VCMs may be installed. The part numbers include:

Nozzle Spacing	9-Nozzle VCM Part Number	15-Nozzle VCM Part Number
10 in	118400-136	118400-137
15 in	118400-135	118400-125
20 in	118400-134	118400-126

The specific boom configurations will have specific VCM placement requirements.

100 ft - 5-Section Boom on 20 in Spacing

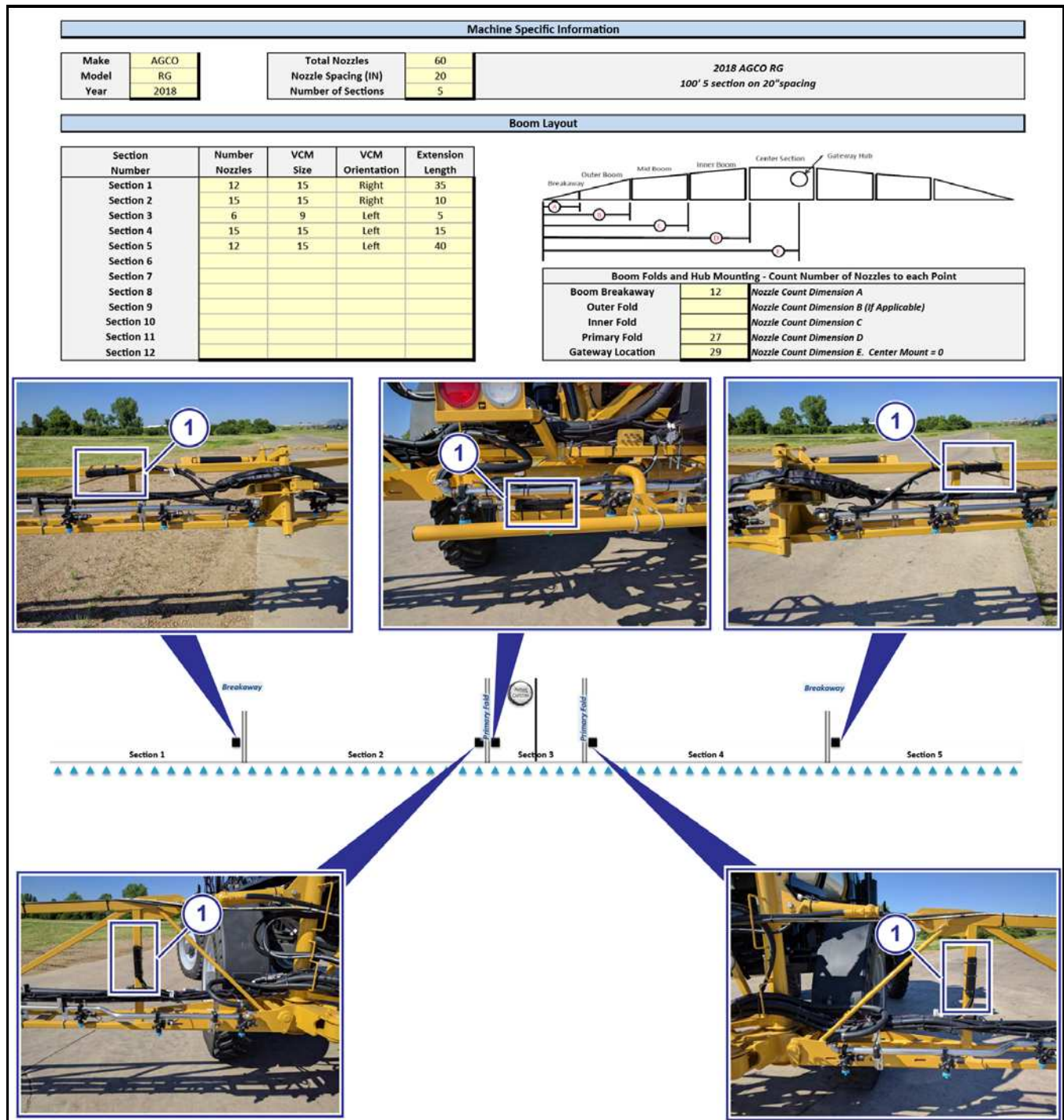


FIGURE 2

FIGURE 2: The VCM mounting locations (1), shown as the squares along the boom.

FIGURE 3: Secure each VCM to the boom structure with three heavy cable ties (1) on the body of the VCM.

Route the pigtail drops on the VCM harnesses away from each VCM and connect to each nozzle valve assembly (shown as small light blue arrows in Figure 2).

Follow the boom plumbing or booms tubes as much as possible.



FIGURE 3

FIGURE 4: Where VCM nozzle drop harness and VCM CAN Extension wiring overlap, use a single cable tie (1) to secure them to the other electronic harnessing or plumbing every 10 in to 12 in.

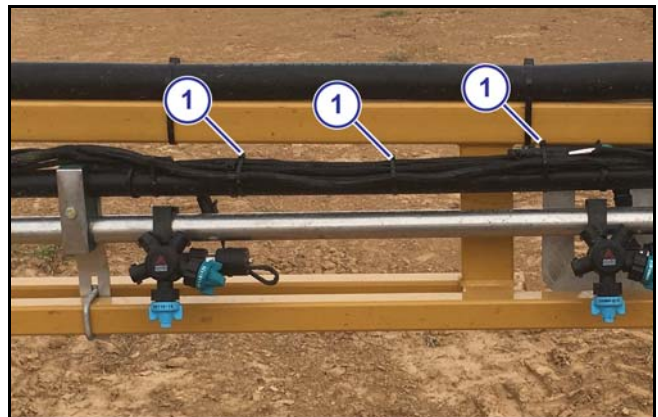


FIGURE 4

FIGURE 5: The pigtails should be connected on the front side of the boom as shown.



FIGURE 5

FIGURE 6: The round circle located high in the center section indicates, generally, the mounting location for the Gateway Hub (1).

The Gateway Hub mount is installed as a part of the Tree/Center Kit. Attach the Gateway Hub to this bracket using the supplied hardware with the power lugs located towards the bottom of the mount.

The Chassis Harness, Power Harness, Cab Extension Harness, SIM Module Harness, Boom Shutoff Harness, and Boom Extension Harnesses all plug into the Gateway Hub.

Route the harnesses so that they may be plugged into the hub in a way that will not promote water ingress into any connectors or terminals by routing wires using a drip loop where needed.

The 6-Pin CAN Extension harnesses are routed from the VCM to the center section following the other boom wiring.

Use the cable ties to secure the harnesses together, spaced 10 in to 12 in.

Excess wire should be gathered to the center section of the machine and looped together and secured with a cable tie allowing for adequate movement of the harnesses.

Then plug the harnesses into the appropriate port on the Gateway hub.

Switch Interface Module (SIM Module) Installation

FIGURE 7: The SIM module (1) is mounted on the back of the Gateway Hub using 1/4-20 hex head screws, washers, and lock nuts.

The SIM module harness (P/N 118692-001) is a part of the tree/center kit and is connected to the chassis harness and interfaces with the marlin module harness J1 and J2 connectors and are labeled.

The 6-pin connector on the SIM harness connects to the 6-pin port on the SIM module labeled CAN/PWR.

The PinPoint™ SIM shutoff harness, also included in the tree/center kit, connects to the 12-pin port on the SIM module.

The leads on the other end of the shutoff harness connect to the BOOM 1-6 and BOOM 7-12 ports on the Gateway Hub.

Install the hub cover.

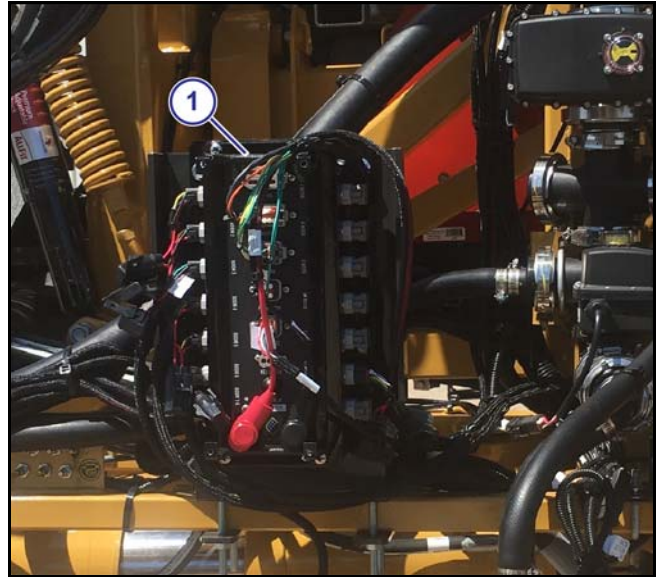


FIGURE 6

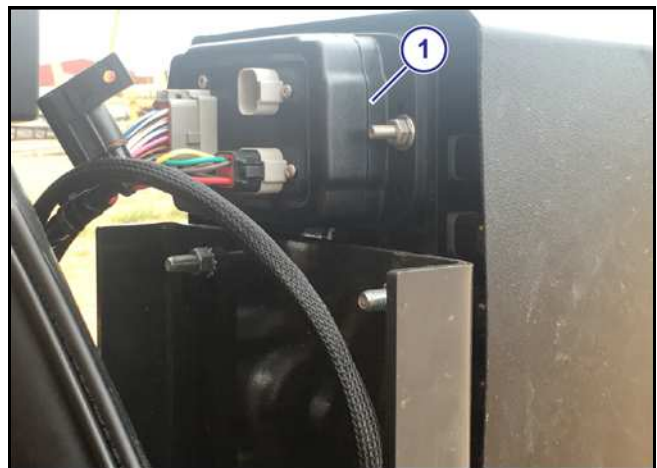


FIGURE 7