

ReconSpreader™

Installation Manual

Document number 600840-000046

Revision 2.0

Last revised: October 14, 2024



ReconSpreader™ Installation Manual

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| Record of Revision | | | |
|---------------------------|--|----------------------|--------------------|
| Revision Number | Change Description | Revision Date | Inserted By |
| 1.0 | Initial release | 11/29/17 | AAL |
| 1.1 | Added alternate gateway mounting instructions and clarified some steps | 6/21/18 | AAL |
| 1.2 | Updated with new hardware | 9/19/18 | AAL |
| 1.3 | Removed incompatible system, added new hose clamps, updated ECU install instructions, added system maintenance | 1/02/19 | AAL |
| 1.4 | Added new compatible machines, gateway model, and harnessing | 2/05/20 | AAL |
| 1.5 | Added new compatible machines, auditory tubing | 5/17/22 | AAL |
| 1.6 | Updated Intelligent Ag logo | 1/17/23 | AAL |
| 1.7 | Updated ECU image in diagrams, removed round u-bolt from gateway instructions | 4/25/23 | AAL |
| 1.8 | Fixed numbering issue in Section 3 | 1/25/24 | AAL |
| 2.0 | Updated branding, added Fendt RoGator support, updated part numbers, added auditory hose checks | 10/14/24 | AAL |

1. Getting Started

1.1. About ReconSpreader™

ReconSpreader is the industry's first blockage monitor for floaters. Utilizing the same acoustic technology developed for other Recon monitoring systems, ReconSpreader provides reliable real-time blockage detection. Acoustic sensors installed on the back of each deflector listen to the material flow and send sound pulses through auditory tubes, similar to a stethoscope. The data is collected by the Electronic Control Unit (ECU), which displays the information on an iPad® in the cab. If there's a blockage anywhere in the system, you'll know.

For instructions to use and configure ReconSpreader, see the Operator's Guide from the app's Guides screen.

For current documentation, iPad and software requirements, and other resources, visit cloud.precisionplanting.com/product-resources.

1.2. Compatible Floaters

ReconSpreader can be installed on the following floaters:

- Case Titan 810 Flex-Air
- Case FA 1030
- John Deere F4365 AB485
- RBR Enterprise 810 Flex-Air
- RoGator AirMax Precision
- Fendt RoGator
- Salford 6700 AB200DS
- Salford 6700 AB320DS
- TerraGator AirMax Precision

1.3. Required Tools and Equipment

You will need the following tools and equipment to install ReconSpreader:

- Standard wrench and socket sets
- Cordless drill with 5/16 driver and/or flathead screwdriver
- Cleaning rags
- Two flathead screwdrivers, WD-40, rag, brake cleaner (if removing flow sensors)



WARNING: Do not use a high-pressure washer on electronic components.



WARNING: Do not use brake cleaner on any new equipment.

1.4. Installation Overview

ESTIMATED INSTALL TIME: 6 hours

ReconSpreader™ is installed through the following steps:

- Install flow sensors
- Install ECUs
- Connect auditory tubes to ECUs
- Connect harnessing
- Install gateway
- Install Wi-Fi antenna
- Install iPad and app

NOTE: Detailed wiring diagrams are found in Appendix B.

2. Installing Flow Sensors

Flow sensors detect when product is impacting the deflector.

| Part name | Part number | Quantity |
|---------------|---------------|-------------|
| Sensor | 153510-000257 | 1/deflector |
| Auditory tube | 353070-000478 | 1/sensor |
| Alcohol wipes | 356070-000063 | varies |

Installation Location

Mount flow sensors on each deflector. **See Appendix A for sensor placement diagrams.**

Installing the Flow Sensors

1. Refer to Appendix A for sensor placement diagrams for your floater.
2. Clean the deflector with alcohol wipes (356070-000063). If there is a lot of dirt, clean the deflectors with a cleaning rag first.
3. If it is below 60°F (15°C), apply heat to the underside of the deflector. The sensor adhesive will not stick in cold temperatures.
4. Remove the protective backing from the sensor (153510-000257).
5. Align the sensor with the deflector according to the sensor placement diagrams in Appendix A, with the port for the auditory tube pointing up. Firmly push the sensor onto the deflector with about 75 lbs. of force to ensure a good seal.
6. Verify that the flow sensor is firmly adhered to the deflector by pulling on the sensor. If it comes loose, re-install the sensor with more force.
7. Connect an auditory tube (353070-000478) to the sensor.



Figure 1: Connecting auditory tubes

8. Repeat the steps above for each deflector.



WARNING: Use caution when folding and unfolding the booms. Failure to properly fold booms may cause damage to your sensors and other components of the ReconSpreader™ system.

Removing Flow Sensors




WARNING: Do not use brake cleaner on any new equipment.

If you need to replace a sensor, contact your dealer or Precision Planting® for a replacement adhesive disk. Then, follow the instructions below.

1. Push a screwdriver between the sensor adhesive and the deflector. Lift the sensor slightly until there is enough room to push the other screwdriver further under the sensor. Pry the sensor gently until it comes off of the deflector.
2. Completely cover the sensor and deflector with WD-40 and let it soak for 3 to 5 minutes.
3. Use a rag to clean the sensor and deflector until there's no adhesive left. You may need to scrape larger pieces off with a screwdriver.
4. Spray and wipe the deflector with a cleaning solution such as brake cleaner to remove any additional residue.
5. Remove the protective backing from the replacement adhesive disk and adhere it to the bottom of the sensor.
6. Reinstall the sensor on the back of the deflector using the instructions in **Installing the Flow Sensors** on the previous page.

3. Installing ECUs

 **WARNING:** Do not use a high-pressure washer on electronic components.

The Electronic Control Units (ECUs) communicate the flow measurement data received by the flow sensors to the gateway.

| Part name | Part number | Quantity |
|------------------------|---------------|----------------------|
| ECU | 153510-000045 | 8-10* |
| Hose clamp | 356060-000246 | 2 per flat plate ECU |
| Flat-plate ECU bracket | 353070-000135 | 6-8* |
| C-channel ECU bracket | 353070-000139 | 2 |
| Rubber mount | 353070-000239 | 2 per ECU |
| 3/8"-16 locknut | 356060-000425 | 2 per ECU |
| 3/8"-16 x 2.5" bolt | 356060-000237 | 2 per ECU |
| 1.25" OD washer | 356060-000239 | 4 per ECU |

*See Appendix B for installation drawings for your system.

Installation Location

Mount ECUs on the booms and middle implement plate.

Installing the ECUs

The ECUs use two different types of mounting brackets: a flat-plate ECU bracket and a C-channel ECU bracket. **Refer to Appendix B to determine where to use each bracket.**

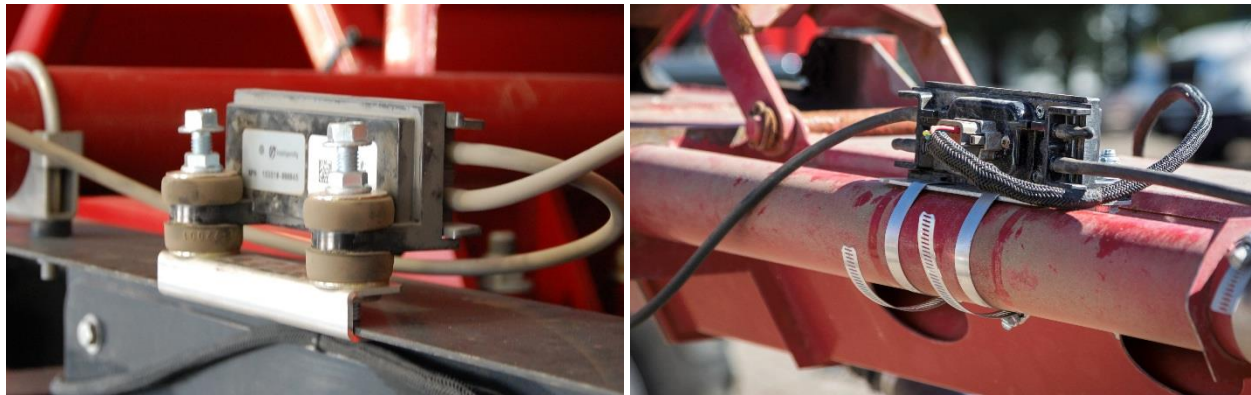


Figure 2: ECU installation locations

Installing ECUs with the Flat-Plate Bracket

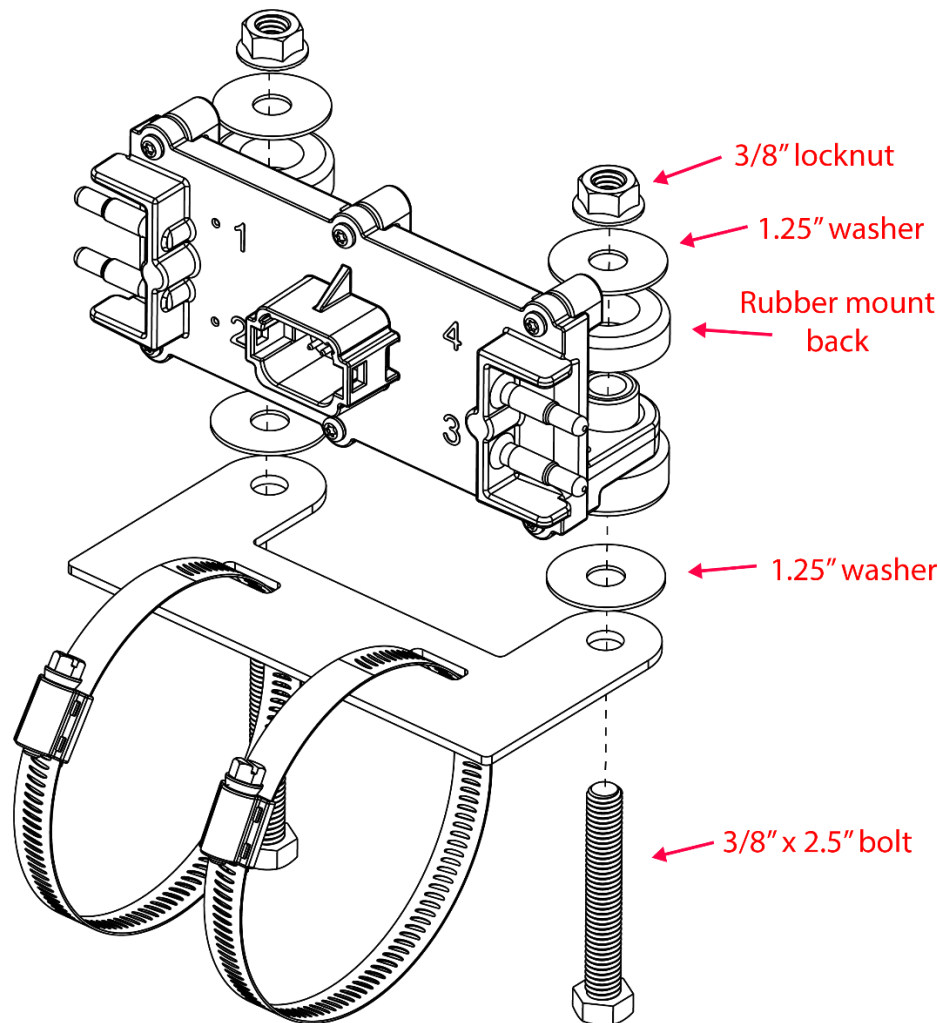


Figure 3: Installing flat-plate bracket ECUs

1. Refer to Appendix B to determine the installation location for the ECUs that use the flat-plate bracket (353070-000135).
2. Align the flat-plate ECU bracket (353070-000135) with the bottom of the ECU (153510-000045). Secure the ECU to the bracket using bolts (356060-000237), washers (356060-000239), rubber mount back (353070-000239), and locknuts (356060-000425), as shown in Figure 3.
3. Position the bracket onto the machine using the auditory hoses to help guide placement. Thread the hose clamps (356060-000246) through the bracket and secure the ECU to the boom.

NOTE: Make sure that when the boom is folded up, the ECU connectors point downward so that they do not collect water. This might mean rotating the bracket and ECU on the machine.

NOTE: If the hose clamp won't fit around larger structures, connect two hose clamps together to make a larger hose clamp.

- Repeat the steps above for each flat-plate ECU.

Installing ECUs with the C-Channel Bracket

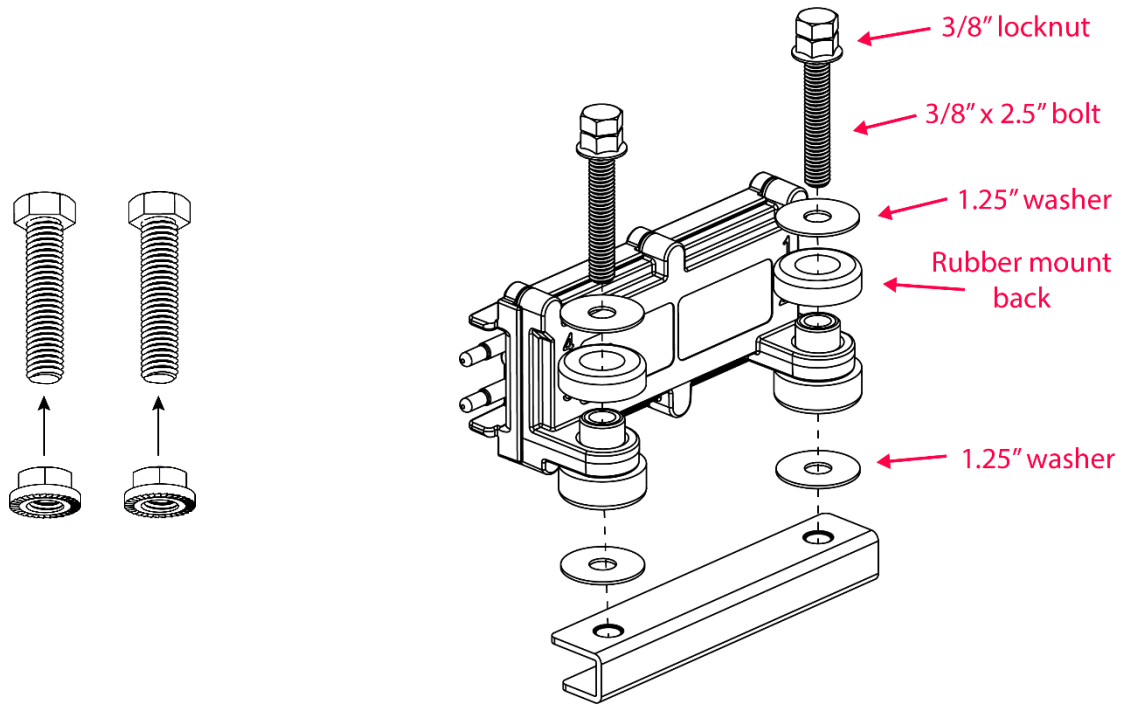


Figure 4: Installing C-channel bracket ECUs

- Refer to Appendix B to determine the installation location for the ECUs that use the C-channel bracket (353070-000139).
- Twist the locknut (356060-000425) onto the bolt (356060-000237) and screw it upwards until it reaches the head of the bolt, as shown in the left image of Figure 4.
- Align the ECU (153510-000045) with the bracket oriented as shown in the right image of Figure 4. Secure the ECU to the bracket using the bolt/locknut, washers (356060-000239), and rubber mount back (353070-000239).
- Position the bracket onto the machine using the auditory hoses to help guide placement. Tighten the bolt head to secure the bracket to the machine.

NOTE: Make sure that when the boom is folded up, the ECU connectors point downward so that they do not collect water. This might mean re-installing the ECU on the bracket so that the ECU faces the other direction.



Figure 5: Installed C-channel bracket ECU

5. Screw the nut downward to secure the ECU to the bracket.
6. Repeat the steps above for each C-channel ECU.

4. Connecting Auditory Tube to ECUs

Auditory tubes allow sound to be transmitted from the sensor to the ECU.

| Part name | Part number | Quantity |
|---------------|---------------|----------|
| Auditory tube | 353070-000478 | 1/sensor |



Figure 6: Auditory tubes connected to an ECU

Connecting Auditory Tubes to ECUs

1. Remove the caps from the ECU ports that you will be using. Refer to the diagrams in Appendix B for the number of sensors per ECU.
NOTE: Make sure that you do not get any dirt inside the ECU ports or the loose end of the auditory hose.
2. Connect the loose end of the auditory tube to an ECU port. You can connect it to any port, but we recommend connecting auditory ports in numeric order to make configuration in the app easier.
3. Repeat the steps above for all sensors.

Securing Auditory Tubes

IMPORTANT: Do not cut or shorten auditory tubing. This could cause inaccurate readings.

1. Zip tie each auditory tube to the frame or another structure within 12” of the sensor to prevent excessive movement.
2. Zip tie the other end of each auditory tube to the frame or another structure within 12” of the ECU.
3. Make sure that the tubing is NOT:
 - Kinked
 - Impeding product flow
 - Coiled too tightly
 - At risk of getting pinched when the booms are folded
 - Compressed by zip ties
4. Cover unused ECU ports with the caps originally supplied on the ECU.



WARNING: Damage can occur, and warranty may be voided if unused ECU ports are not covered.

5. Connecting Harnessing

Refer to Appendix B for wiring diagrams for the steps below.

TIP: Start with harnessing on leftmost and rightmost side of the booms and work toward the center. Then, work on harnessing toward the cab.

NOTE: The gateway uses the tractor's key switch for proper operation. Make sure that the key switch is wired to the key switch terminal of the 3-pin power outlet in the tractor cab.

| Part name | Part number | Quantity |
|-------------------------------------|---------------|----------|
| CAN termination plug | 153510-000051 | 2 |
| Cab harness | 353050-000054 | 1 |
| Gateway harness | 353050-000055 | 1 |
| 10' ECU harness | 353050-000025 | varies |
| 20' ECU harness (810 Flex-Air only) | 353050-000027 | 2 |
| Power/CAN split harness | 353050-000028 | 1 |
| Fendt cab harness (Fendt only) | 353050-000115 | 1 |
| Cable ties | 356070-000101 | Varies |

5.1. Installing ECU Wiring Harnesses

1. Connect **S3** of a 10' ECU harness (353050-000025) to **each ECU**.

NOTE: If installing on an 810 Flex-Air, use **S3** of two 20' ECU harnesses (353050-000027) to connect to the **two middle ECUs**.

2. Connect **S1** of each ECU harness to **S2** of the nearest ECU harness to form a daisy chain on each boom. Do not connect S1 of the two centermost ECU harnesses until the next step.
3. Connect **S2** and **S3** of the Power/CAN Split harness (353050-000028) to **S1** of each of the two centermost ECU harnesses.
4. Insert a **CAN termination plug** (153510-000051) into the two unused **S2** ends of the outermost ECU harnesses.

5.2. Installing Gateway Harness

Connect **S2** of the Gateway harness into **S1** of the Power/CAN Split harness (353050-000028).

NOTE: S3 and S4 of the Gateway harness are connected in Section 6.

5.3. Connecting Cab Harness

1. **FENDT ONLY:** Connect **S1** of the Fendt cab harness (353050-000115) into the **convenience outlet** of the cab.
2. Connect **S1** of the Cab harness (353050-000054) into the **convenience outlet** of the cab or **S2** of the Fendt cab harness (if applicable).
3. Connect **S2** of the Cab harness to **S1** of the Gateway harness (353050-000055).

6. Installing the Gateway

The gateway is a computing platform that sends ECU data to the iPad through the Wi-Fi antenna.

| Part name | Part number | Quantity |
|--------------------------|---------------|----------|
| Gateway 260 | 153010-000085 | 1 |
| 1/4" flat washer | 352012-000024 | 8 |
| Gateway mounting bracket | 353070-000079 | 1 |
| 3/8" locknut | 356060-000425 | 4 |
| U-bolt | 356060-000152 | 2 |
| 3/8" washer | 356060-000239 | 4 |
| 1/4" nut | 352011-000040 | 4 |
| 1/4" x 2-1/2" screw | 356060-000303 | 4 |

Installation Location

Mount the gateway between the cab and bins. The mounting location must be at least 8 inches (20 cm) away from the operator to ensure safe operation.

NOTE: Your gateway may look different than the one pictured below.



Figure 7: Gateway mounting location

Installing the Gateway

We recommend mounting the gateway to a beam between the cab and bin. If you don't have a beam to mount to, use the **Alternate Installation** instructions.

Standard Installation (mounted to a beam between the cab and bin)

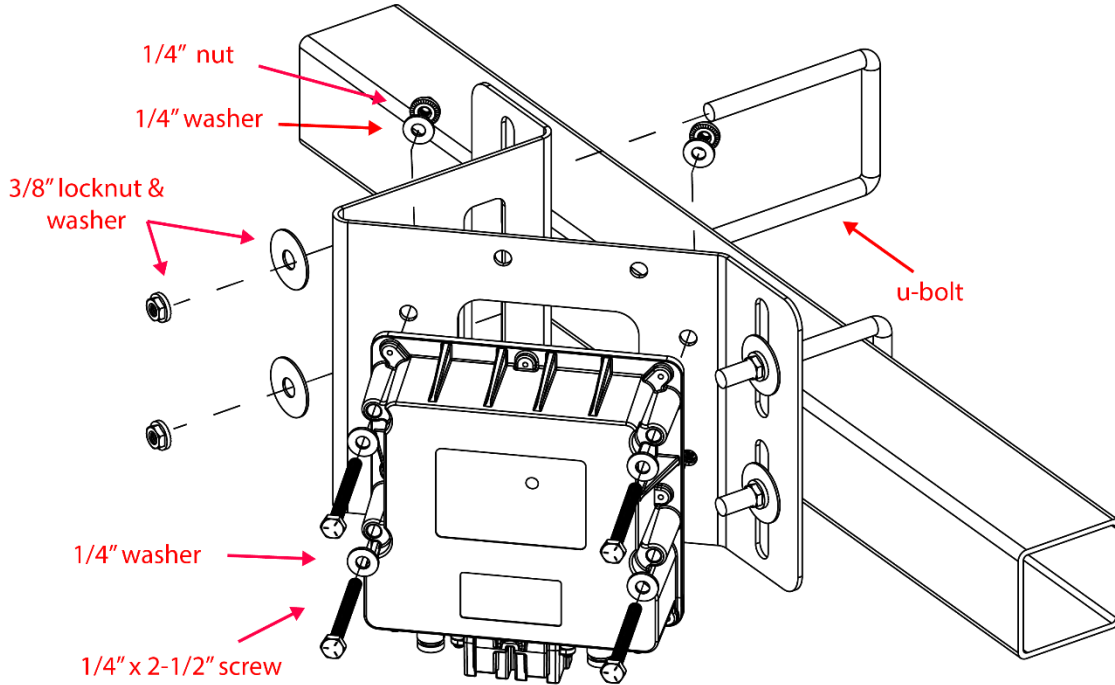


Figure 8: Installing the gateway

1. Position the gateway (153010-000085) on the mounting bracket (353070-000079). The gateway can be mounted on the bracket in any direction, but the connectors should not face up when the bracket is mounted on the beam.
2. Secure the gateway to the mounting bracket using the provided screws (356060-000303), washers (352012-000024), and nuts (352011-000040) as shown in Figure 8.
3. Mount the gateway to the beam using u-bolts (356060-000152). Secure with washers (356060-000239) and locknuts (356060-000425).

Alternate Installation (mounted directly to bin)

WARNING: Do not drill into structural framework.

1. Position the gateway (153010-000085) in a mounting location between the cab and the bin. The connectors should not face up.
2. On the bin, mark the location of the four mounting holes shown in Figure 9. Remove the gateway and drill out the holes using a 5/16 inch or 8 mm drill bit.
3. Secure the gateway to the sheet metal using the provided screws (356060-000303), washers (352012-000024), and nuts (352011-000040) that are typically used to secure the gateway to the bracket.

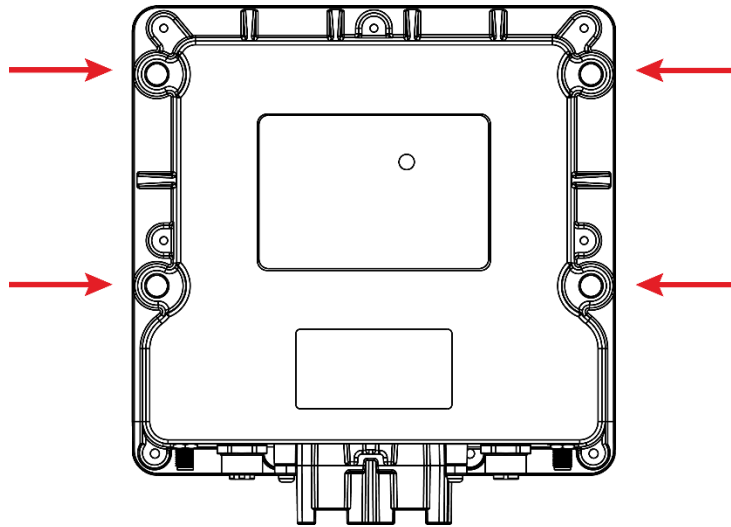


Figure 9: Gateway mounting holes

Connect Gateway Harness to Gateway

1. Connect S3 of the Gateway harness into Port A of the gateway.
2. Connect S4 of the Gateway harness into Port B of the gateway.

7. Installing Wi-Fi Antenna

The Wi-Fi antenna sends information from the ReconSpreader™ system to the iPad.

| Part name | Part number | Quantity |
|-----------------|---------------|----------|
| SMA cap | 251015-000139 | 2 |
| Wi-Fi antenna | 252005-000010 | 1 |
| Antenna bracket | 353070-000083 | 1 |
| 3/8" locknut | 356060-000425 | 4 |
| U-bolt | 356060-000152 | 2 |
| 3/8" washer | 356060-000239 | 4 |

Installation Location

Mount the Wi-Fi antenna on the bin between the cab and bins. Mount it at least 2 feet (60 cm) away from the operator and at least 8 inches (20 cm) from the gateway to ensure safe operation.

If you don't have a beam behind the cab, find a beam within 6 feet of the cab that has line of sight to the cab.



Figure 10: Wi-Fi antenna mounting location

Installing the Wi-Fi Antenna

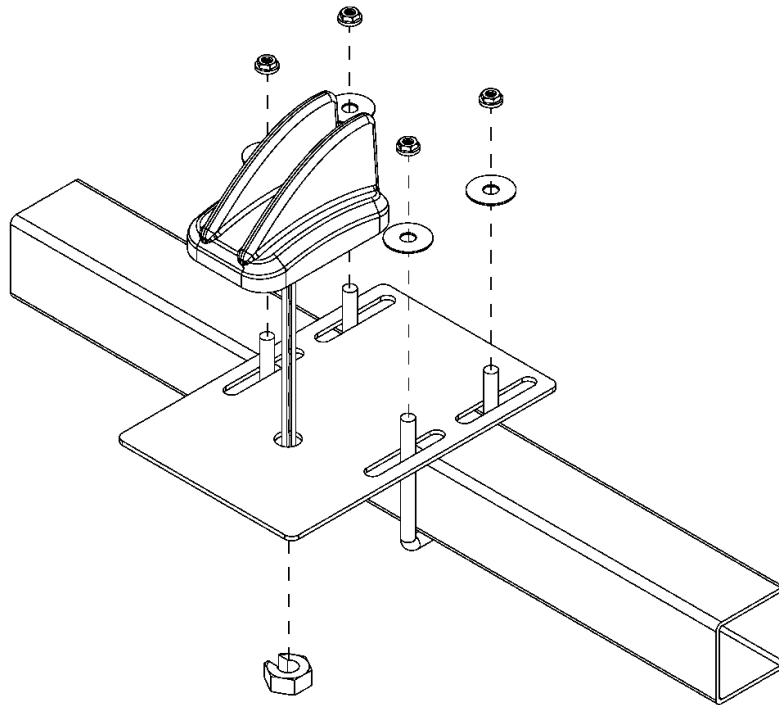


Figure 11: Mounting the Wi-Fi antenna

1. Thread the Wi-Fi antenna (252005-000010) cables through the hole in the mounting bracket (353070-000083) and through the nut. Tighten the nut to secure the antenna to the bracket. Do not over-torque.
2. Mount the bracket on a beam behind the cab using u-bolts (356060-000152), washers (356060-000239), and locknuts (356060-000425). If you don't have a beam behind the cab, find a beam within 6 feet of the cab that has line of site to the cab.
3. Connect the Cellular Main and Wi-Fi/BT antenna cables to the gateway.

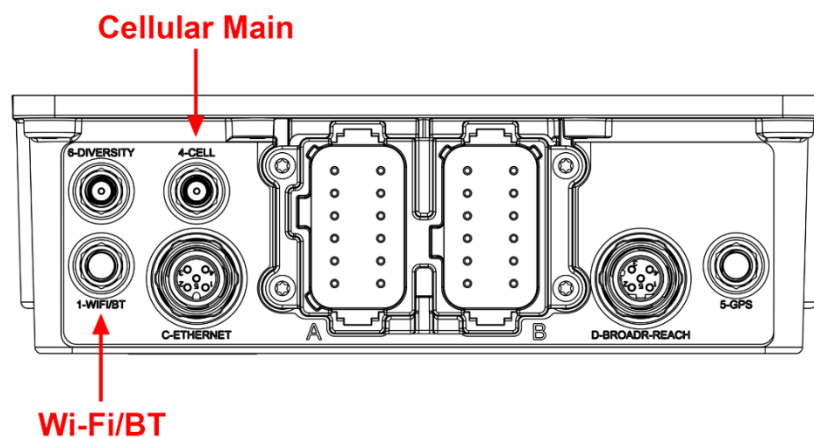


Figure 12: Gateway connectors

4. Coil and zip-tie the 433 MHz antenna cable to the other cables.
5. Cover connectors 5 and 6 with the provided caps (251015-000139).

Routing Loose Harnessing

Coil any loose harnessing around a hydraulic line or existing electrical wire and ensure that harnessing will not get pinched when you fold the booms up. Secure all harnessing to the implement using cable ties (356070-000101).

8. Installing the iPad and SpreadSense® App

To interface with the system, you need to download the SpreadSense app from the Apple App Store and install it onto your iPad.

8.1. Installing the iPad Mount

| Part name | Part number | Quantity |
|---------------------------------|---------------|----------|
| Tablet mount arm | 352004-000003 | 1 |
| Rail attachment | 352004-000004 | 1 |
| iPad mount (for 9"-11.5" iPads) | 356070-000089 | 1 |




Figure 13: Installing the iPad mount

1. Assemble the iPad mount according to the instructions provided with the mount. Then, mount it to the cab's mounting bar or other desired installation location.
2. Place the iPad into the iPad mount.
3. **OPTIONAL:** Plug the iPad into a USB charger in the cab to keep the iPad charged while using the system.

8.2. Downloading the SpreadSense® App

To interface with the system, you need to download the SpreadSense app from the Apple App Store and install it onto your iPad. To install the app:

1. Connect the iPad to the internet.
2. Tap the **App Store** icon on the iPad's home screen.
3. Tap **Search** in the bottom right corner of the App Store screen.
4. Type *Intelligent Ag* in the search field, then tap **Search**.
5. Tap the SpreadSense  app when it appears in your search results.
6. Tap the **Get** button, then tap **Install**. Enter your Apple ID and password, if prompted. A progress bar will appear over the app's icon while it is downloading.

8.3. Connecting the iPad to the Wireless Network

The iPad must be in close range of the gateway and connected to the gateway's wireless network to communicate with the system.

Make sure that your iPad is connected to the gateway network at the beginning of every planting session. This is especially important if your iPad is connected to another network, such as a home wireless network, between sessions.

To connect the iPad to the wireless network:

1. Make sure that you have power to the ECUs and gateway. The gateway's LED is green when it's done starting up.
2. Tap the **Settings** icon on your iPad's home screen.
3. Tap **Wi-Fi**. Then, connect to the gateway's network.

If it's your first time connecting to the gateway:

- a. Connect to the **IAS-Base-Image-XXXXXX** network.
"XXXXXX" represents the gateway's serial number.
- b. Open the SpreadSense app from the iPad's Home screen. Once the gateway is configured, close the app and navigate back to the iPad's Wi-Fi settings.
- c. Connect to the **PrP -XXXXXX** network.

If you've connected to the gateway before: Connect to the **PrP -XXXXXX** network.

4. Open the SpreadSense app from the iPad's Home screen. Follow the on-screen prompts to begin configuring your system.

8.4. Configuring the System

For instructions to configure and use ReconSpreader™ after installation, see the Operator's Manual from the app's Manuals screen.

We recommend performing a product capture or bag test to ensure the distribution system is performing accurately.

9. Daily Maintenance



WARNING: Use caution when folding and unfolding the booms. Failure to properly fold booms may cause damage to your sensors and other components of the ReconSpreader™ system.

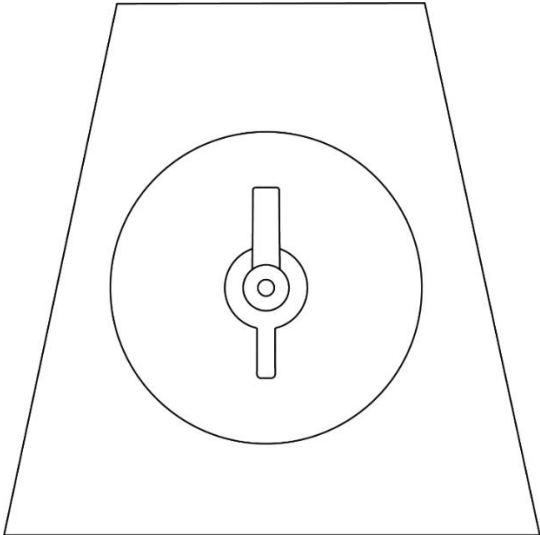
We recommend a daily visual inspection of the ReconSpreader system to ensure proper operation and reduce downtime.

Make sure that the system does not have any of the issues below. Correct any issues before operating the system again.

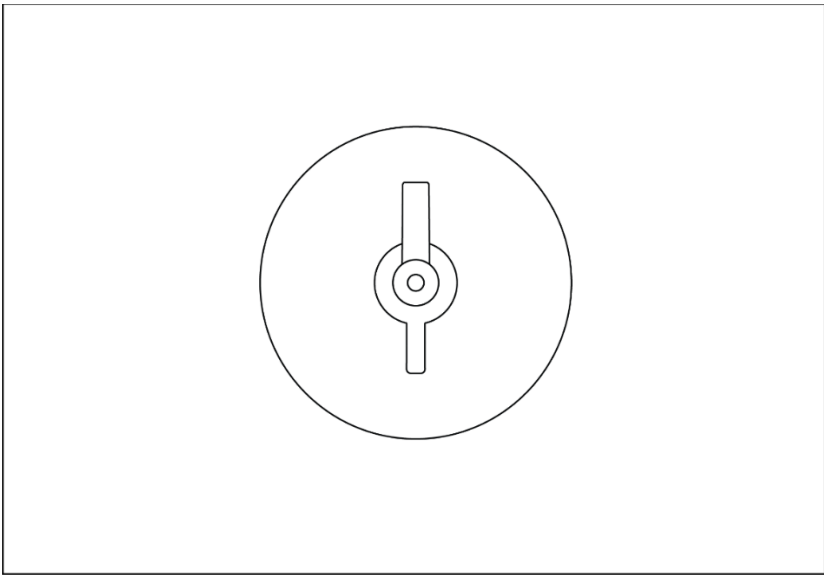
- **Sensors:** Loose adhesion, cracking, broken sensor
- **Auditory Tubing:** Signs of rubbing, cuts, pinched tubes, holes, hoses detached from sensors or ECUs
- **Harnessing:** Loose connections, signs of rubbing, pinching
- **ECUs:** Not securely mounted, powered off, harnesses incorrectly connected
- **Gateway:** Not securely mounted, powered off, harnesses incorrectly connected
- **Antenna:** Not securely mounted

**Appendix A:
Sensor Placement Diagrams**

**AirMax Precision
Fendt RoGator
John Deere F4365 AB485**



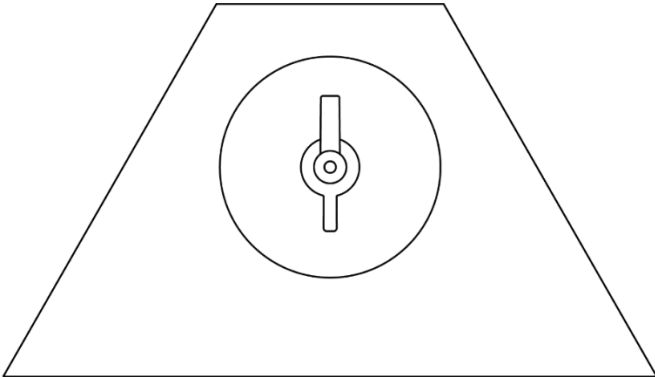
Side deflector



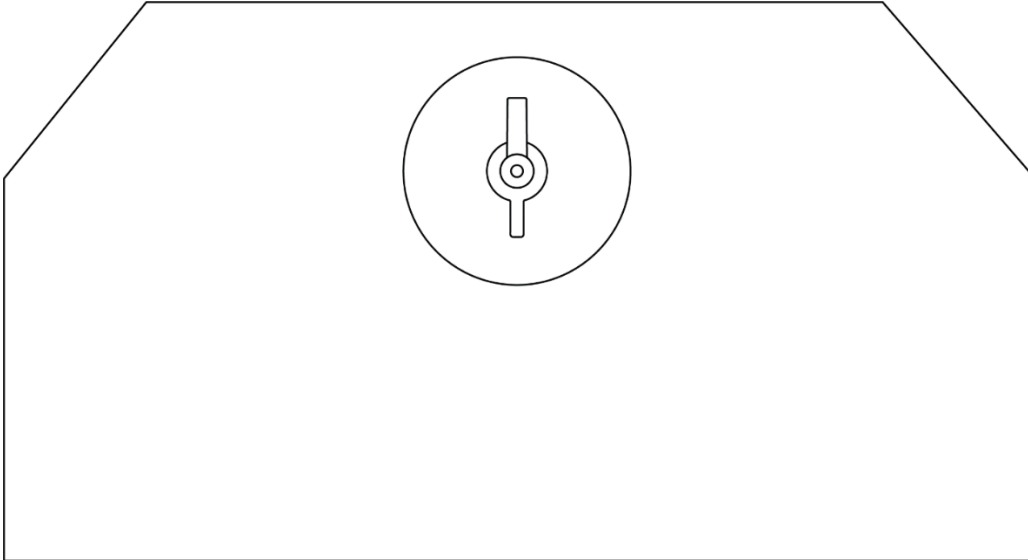
Middle deflector

Figure 14: TerraGator AirMax Precision and John Deere F4365 AB485 sensor placement

810 Flex-Air
FA 1030



Side deflector



Middle deflector

Figure 15: 810 Flex-Air sensor placement

6700 AB200DS

6700 AB320DS

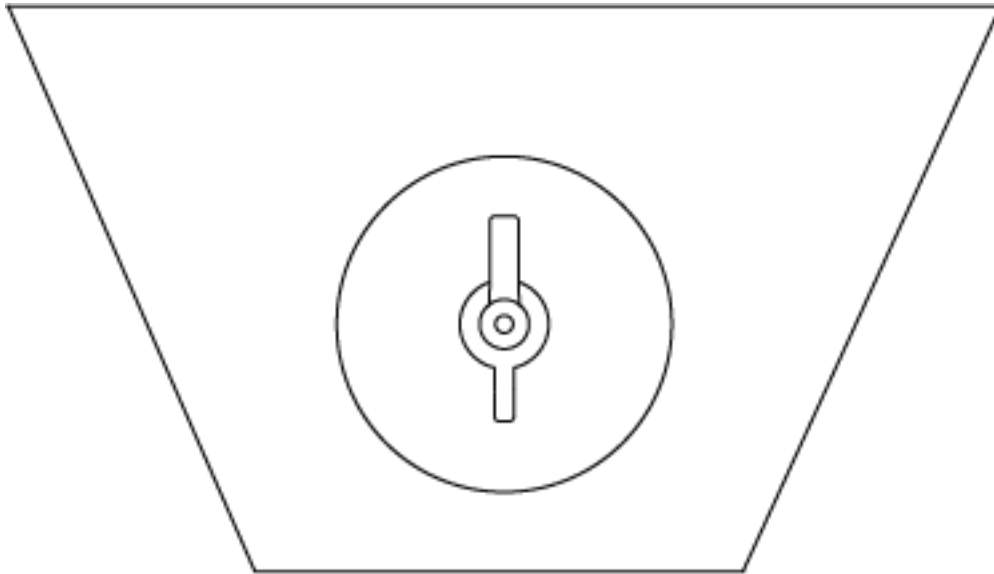


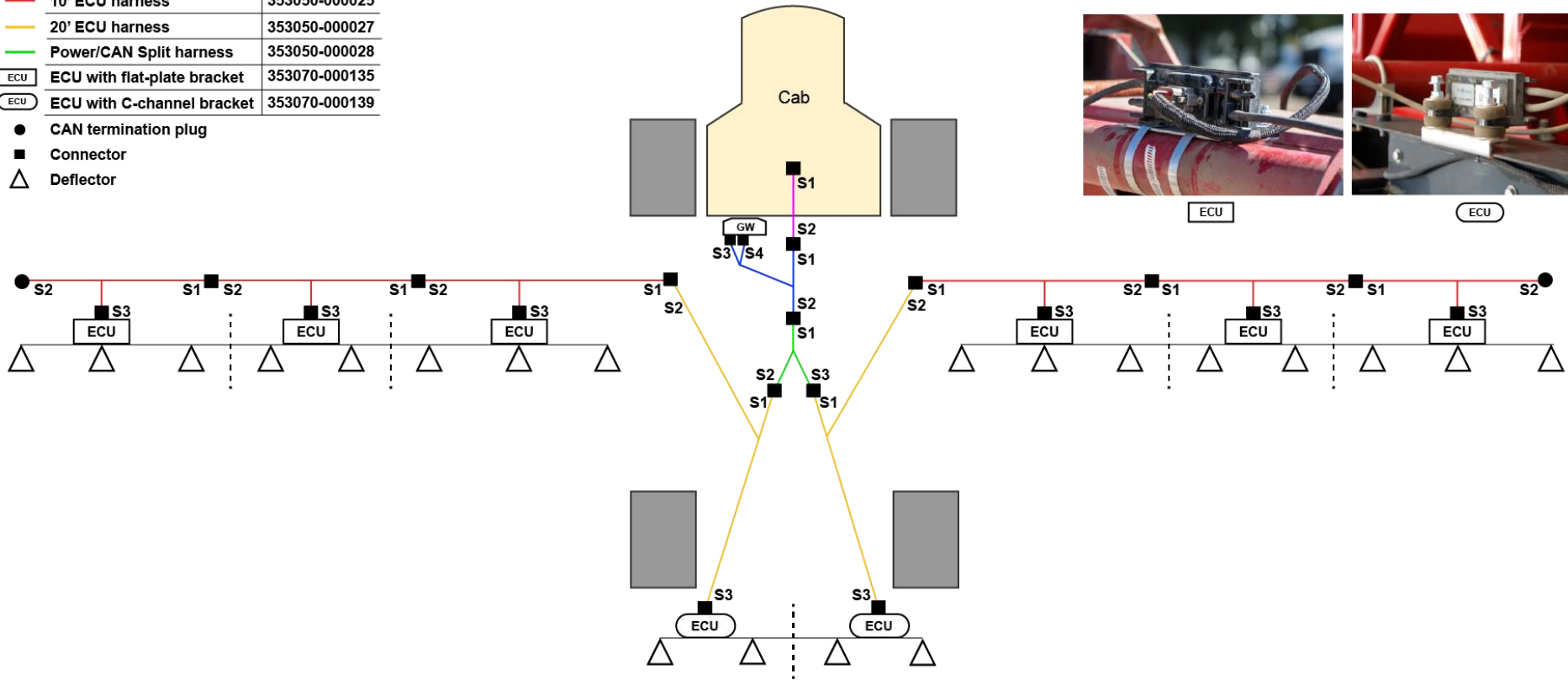
Figure 16: 6700 AB200DS sensor placement

Appendix B: Wiring Diagrams

810 Flex-Air

KEY

| | | |
|--|-----------------------------|---------------|
| | Cab harness | 353050-000054 |
| | Gateway harness | 353050-000055 |
| | 10' ECU harness | 353050-000025 |
| | 20' ECU harness | 353050-000027 |
| | Power/CAN Split harness | 353050-000028 |
| | ECU with flat-plate bracket | 353070-000135 |
| | ECU with C-channel bracket | 353070-000139 |
| | CAN termination plug | |
| | Connector | |
| | Deflector | |



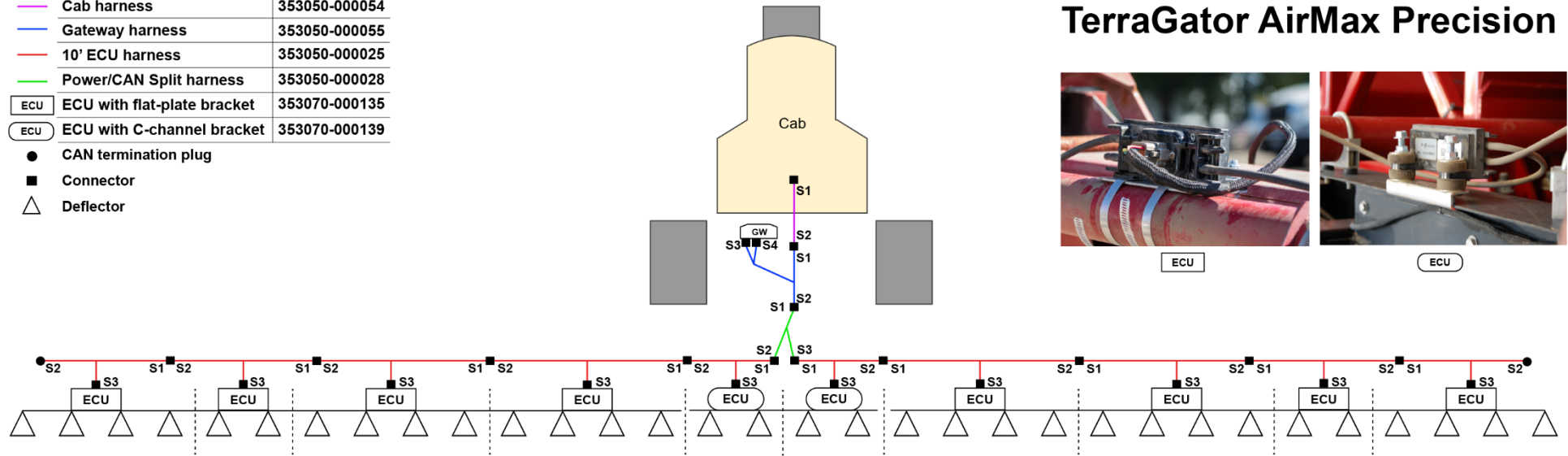
TIP: Start with harnessing on the leftmost and rightmost side of the booms and work toward the center. Then, work on harnessing toward the cab.

Figure 17: 810 Flex-Air wiring diagram

AB200DS (80') Case FA1030 (72') John Deere F4365 AB485 TerraGator AirMax Precision

KEY

| | | |
|--|-----------------------------|---------------|
| | Cab harness | 353050-000054 |
| | Gateway harness | 353050-000055 |
| | 10' ECU harness | 353050-000025 |
| | Power/CAN Split harness | 353050-000028 |
| | ECU with flat-plate bracket | 353070-000135 |
| | ECU with C-channel bracket | 353070-000139 |
| | CAN termination plug | |
| | Connector | |
| | Deflector | |











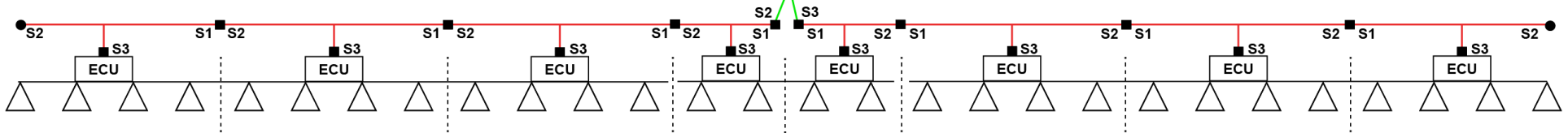
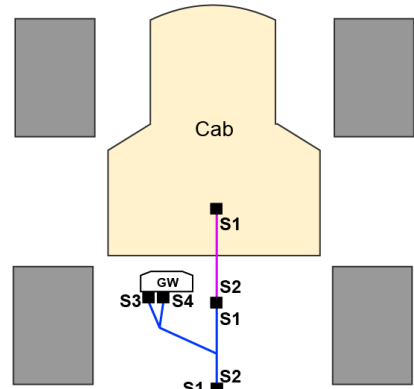
TIP: Start with harnessing on the leftmost and rightmost side of the booms and work toward the center. Then, work on harnessing toward the cab.

Figure 19: AB200DS (80'), Case FA1030 (72'), John Deere F4365 AB485 and TerraGator AirMax Precision wiring diagram

RoGator AirMax Precision

KEY

| | | |
|---|-----------------------------|---------------|
|  | Cab harness | 353050-000054 |
|  | Gateway harness | 353050-000055 |
|  | 10' ECU harness | 353050-000025 |
|  | Power/CAN Split harness | 353050-000028 |
|  | ECU with flat-plate bracket | 353070-000135 |
|  | CAN termination plug | |
|  | Connector | |
|  | Deflector | |



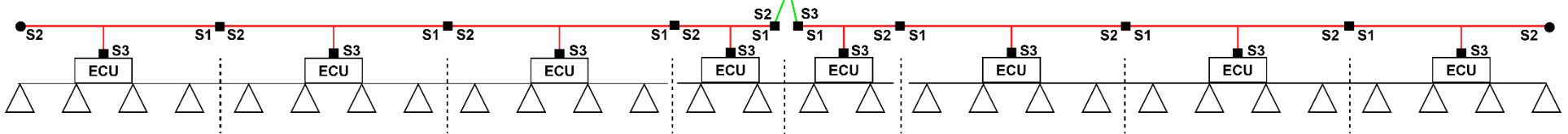
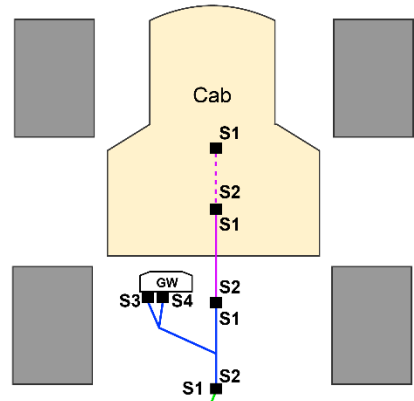
TIP: Start with harnessing on the leftmost and rightmost side of the booms and work toward the center. Then, work on harnessing toward the cab.

Figure 20: RoGator AirMax Precision wiring diagram

Fendt RoGator

KEY

| | | |
|--|-----------------------------|---------------|
| | Fendt Cab harness | 353050-000115 |
| | Cab harness | 353050-000054 |
| | Gateway harness | 353050-000055 |
| | 10' ECU harness | 353050-000025 |
| | Power/CAN Split harness | 353050-000028 |
| | ECU with flat-plate bracket | 353070-000135 |
| | CAN termination plug | |
| | Connector | |
| | Deflector | |



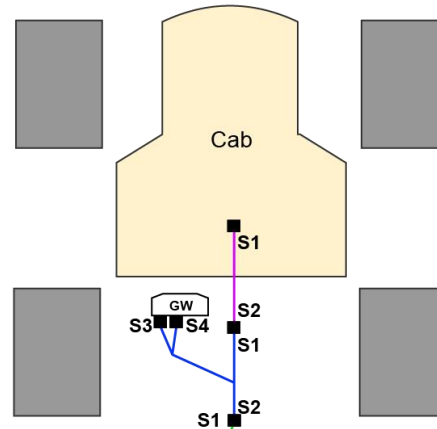
TIP: Start with harnessing on the leftmost and rightmost side of the booms and work toward the center. Then, work on harnessing toward the cab.

Figure 21: Fendt RoGator wiring diagram

Salford AB200DS

KEY

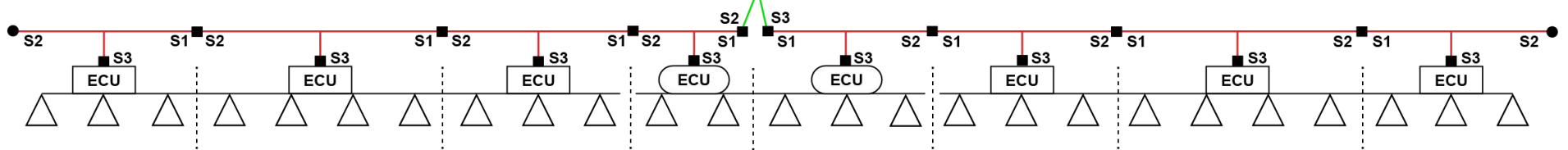
| | | |
|--|-----------------------------|---------------|
| | Cab harness | 353050-000054 |
| | Gateway harness | 353050-000055 |
| | 10' ECU harness | 353050-000025 |
| | Power/CAN Split harness | 353050-000028 |
| | ECU with flat-plate bracket | 353070-000135 |
| | ECU with C-channel bracket | 353070-000139 |
| | CAN termination plug | |
| | Connector | |
| | Deflector | |



ECU



ECU



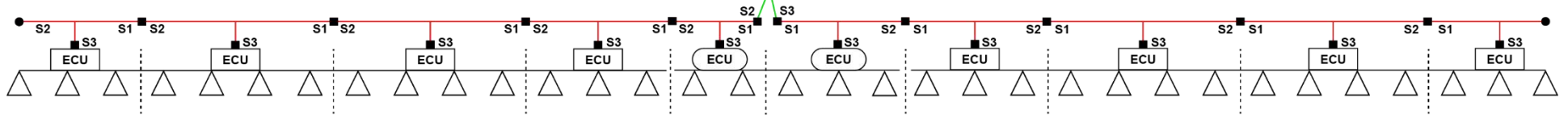
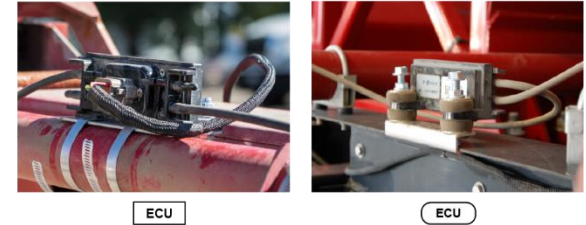
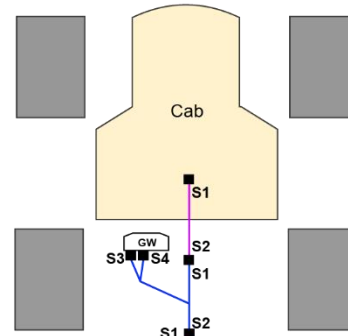
TIP: Start with harnessing on the leftmost and rightmost side of the booms and work toward the center. Then, work on harnessing toward the cab.

Figure 22: Salford AB200DS wiring diagram

Salford AB320DS

KEY

| | | |
|--|-----------------------------|---------------|
| | Cab harness | 353050-000054 |
| | Gateway harness | 353050-000055 |
| | 10' ECU harness | 353050-000025 |
| | Power/CAN Split harness | 353050-000028 |
| | ECU with flat-plate bracket | 353070-000135 |
| | ECU with C-channel bracket | 353070-000139 |
| | CAN termination plug | |
| | Connector | |
| | Deflector | |



TIP: Start with harnessing on the leftmost and rightmost side of the booms and work toward the center. Then, work on harnessing toward the cab.

Figure 23: Salford AB320DS wiring diagram