Planter specifications

12 Row planter

Planter type: 2150 Front Fold Trailing planter

- Number of rows: 12
- Row spacing: **762 mm** (**30 in**)

Wing Wheels: (2) **Firestone®** VF 245/70R19.5 AD2 Radial, Load Index 142D

- Tire Inflation Pressure: **517.1 kPa** (**75.0 psi**)
- Wheel Lug Bolt Torque: **331.0 - 447.0 N·m** (**244.1 - 329.7 lb ft**)

Center Toolbar Wheels: (4) **Firestone®** VF 245/70R19.5 AD2 Radial, Load Index 142D

- Tire Inflation Pressure: **517.1 kPa** (**75.0 psi**)
- Wheel Lug Bolt Torque: **331.0 - 447.0 N·m** (**244.1 - 329.7 lb ft**)

Transport Width:

- With two-stage closing: **3759 mm** (**148 in**)
- With v-closing: **3632 mm** (**143 in**)

Planter Height:

- Without weigh scales: **3404 mm** (**134 in**)
- With weigh scales: **3480 mm** (**137 in**)

Transport Length:

- Bulk fill, drawbar hitch: **11.4 m** (**37.5 ft**)
- On-row hoppers, drawbar hitch: **10.8 m** (**35.5 ft**)
- Bulk fill, two-point hitch: **10.5 m** (**34.5 ft**)
- On-row hoppers, two-point hitch: **9.9 m** (**32.5 ft**)

Planter Wheel Tread: **1524.0 mm** (**60.0 in**) and **3048.0 mm** (**120.0 in**)

Wing Float: **21 °** upward and downward

Row units: Parallel linkage, individually mounted for maximum flexibility to follow ground contour.

Row Unit Weight: **148.0 kg** (**326.3 lb**) (empty, without hopper)

Staggered **381.0 mm** (**15.0 in**) diameter double disks with precision bearings. Internal and external scrapers.

Covering disks: Adjustable **228.0 mm** (**9.0 in**) diameter inverted, spring-loaded staggered double disks.

Press wheels: Adjustable, **165 x 305 mm** (**6.5 x 12 in**) center rib, chevron tread, semi-pneumatic rubber tires.

Planter depth: Controlled by equalizer gauge wheel system that equalizes soil pressure on both **102 x 406 mm** (**4 x 16 in**) grooved semi-pneumatic rubber gauge wheel tires.

Planting depth: Adjustable, **0.0 - 92.0 mm** (**0.0 - 3.6 in**) .

On-Row Seed Hopper and Lid: Molded plastic

- Hopper capacity: **0.067 m³** (**1.9 Bu**).
- Hopper / Meter Assembly Weight: **10.7 kg** (**23.6 lb**) (empty)
- Hopper / Meter Assembly Weight: **62.6 kg** (**138.0 lb**) (full)

Granular Chemical Hopper:

- Hopper Weight: **6.1 kg** (**13.5 lb**) (empty)

Download full manual at youfixthis.com
PREVIEW - YOUFIXTHIS.COM

Power Take-Off (PTO) generic sub-sub-group - Service instruction

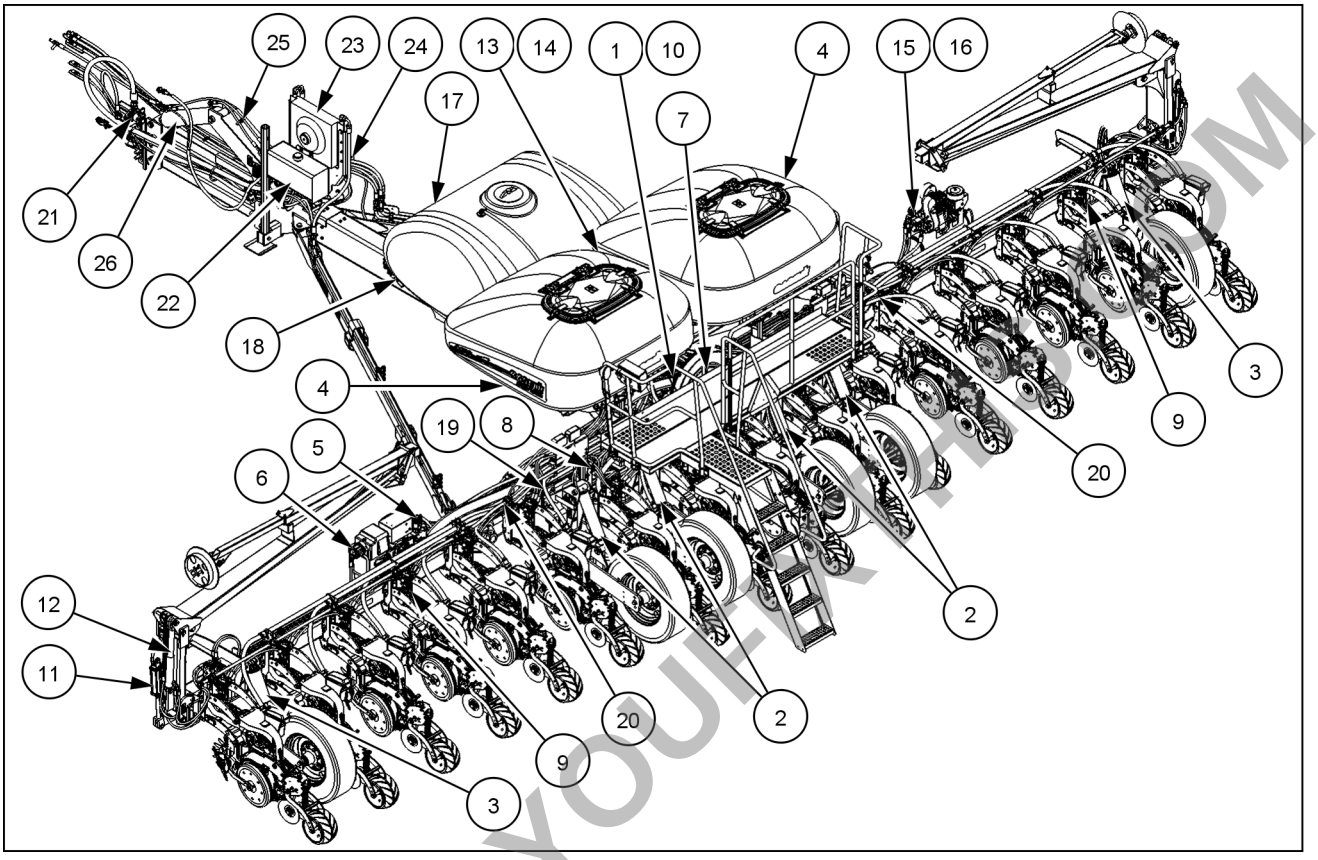
1. Refer to the following sections for the Power Take-Off (PTO) service procedures:
   - Tractor mounted PTO pump — 35.104.AA (**Pump - Remove - PTO pump - 100 cm³ (6.1 in³) displacement - 83 L/min (22 US gpm) (35.104)**)
   - PTO oil cooler/fan assembly — 35.300.AB (**Oil cooler/Heat exchanger - Remove - Power Take-Off (PTO) pump hydraulic oil cooler (35.300)**) / 55.036.AU (**Hydraulic cooler fan motor - Disassemble - Power Take-Off (PTO) pump hydraulic oil cooler fan (55.036)**)
   - PTO oil filter — 35.300.AN (**Oil filters - Remove - Power Take-Off (PTO) pump oil filter (35.300)**)
   - PTO reservoir — 35.300.AQ (**Oil reservoir - Remove - Power Take-Off (PTO) pump hydraulic oil reservoir (35.300)**)
   - PTO oil cooler thermostat — 35.300.BN (**Thermostat - Remove - Power Take-Off (PTO) pump hydraulic oil thermostat (35.300)**) / 55.036.AA (**Hydraulic fluid temperature control sensor - Service instruction - Power Take-Off (PTO) pump hydraulic oil thermostat (55.036)**)
   - PTO unloading valve — 35.350.AJ (**Main relief valve - Remove - Power Take-Off (PTO) Unloading valve (35.350)**)
   - PTO relief valve — 35.350.AQ (**Relief valve - Remove - Power Take-Off (PTO) Relief valve (35.350)**)
   - PTO electrical harness — 55.100.DP (**Wiring harnesses - Electrical schematic sheet 16 - Rear lighting (55.100)**)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Hydraulic systems - Overview - Front Fold Trailing planter - 16 Row

2150 Small Front Fold Trailing Early Riser 16 Row with 2 point hitch 30 inch spacing	
2150 Small Front Fold Trailing Early Riser 16 Row with Drawbar hitch 30 inch spacing	



SAVM15PLA0830FA 1

Ref	Quantity	Description
1	1	Lift and fold valve block
2	4	Frame lift cylinders - Center section
3	2	Frame lift cylinders - Wing sections
4	2	Frame fold cylinders
5	1	Multi-valve block - Alternator/Vacuum fan valve block
6	1	Alternator motor
7	1	Vacuum fan motor
8	1	**DeltaForce®** valve block
9	16	**DeltaForce®** cylinder
10	1	Marker valve block
11	2	Marker fold cylinder - Inner
12	2	Marker fold cylinder - Outer
13	1	Bulk fill fan motor valve block
14	1	Bulk fill fan motor
15	1	Compressor motor valve block
16	1	Compressor motor
17	1	Liquid fertilizer pump motor valve block
18	1	Liquid fertilizer pump motor
19	1	Wing down-pressure valve block
20	2	Wing down-pressure cylinder
21	1	PTO tractor mounted pump
22	1	PTO reservoir
23	1	PTO oil cooler

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Hydraulic systems - 35

Reservoir, cooler, and filters - 300

2150 Small Front Fold Trailing Early Riser 12 Row with 2 point hitch 30 inch spacing
2150 Small Front Fold Trailing Early Riser 16 Row with 2 point hitch 30 inch spacing
2150 Small Front Fold Trailing Early Riser 16 Row with Drawbar hitch 30 inch spacing

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Hydraulic down-pressure - General specification - DeltaForce® common pressures

Lift manifold - Stationary	
Description	**Pressure**
Supply - System pressure	Approximately **19.30 MPa** (**2800 psi**)
Return	Less than **0.69 MPa** (**100 psi**)
Lift	**0 MPa** (**0 psi**)

Cylinder - Stationary	
Description	**Pressure**
Supply - System pressure	Approximately **19.30 MPa** (**2800 psi**)
Return	Less than **0.69 MPa** (**100 psi**)
Lift	**0 MPa** (**0 psi**)
Cylinder	**0 MPa** (**0 psi**)

Lift manifold - Health check	
Description	**Pressure**
Supply - System pressure	Approximately **19.30 MPa** (**2800 psi**)
Return	Less than **0.69 MPa** (**100 psi**)
Lift	**15.17 MPa** (**2200 psi**)

Cylinder - Health check	
Description	**Pressure**
Supply - System pressure	Approximately **19.30 MPa** (**2800 psi**)
Return	Less than **0.69 MPa** (**100 psi**)
Lift	**15.17 MPa** (**2200 psi**)
Cylinder	**1.38 - 15.17 MPa** (**200 - 2200 psi**)

Lift manifold - During operation	
Description	**Pressure**
Supply - System pressure	Approximately **19.30 MPa** (**2800 psi**)
Return	Less than **0.69 MPa** (**100 psi**)
Lift	**1.38 - 15.17 MPa** (**200 - 2200 psi**)

Cylinder - During operation	
Description	**Pressure**
Supply - System pressure	Approximately **19.30 MPa** (**2800 psi**)
Return	Less than **0.69 MPa** (**100 psi**)
Lift	**1.38 - 15.17 MPa** (**200 - 2200 psi**)
Cylinder	**1.38 - 15.17 MPa** (**200 - 2200 psi**)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Vacuum system control valve - Install - Dual section motor control valve block - Alternator/Vacuum fan

⚠ WARNING

Escaping fluid!
Hydraulic fluid or diesel fuel leaking under pressure can penetrate the skin and cause infection or other injury. To prevent personal injury: Relieve all pressure before disconnecting fluid lines or performing work on the hydraulic system. Before applying pressure, make sure all connections are tight and all components are in good condition. Never use your hand to check for suspected leaks under pressure. Use a piece of cardboard or wood for this purpose. If injured by leaking fluid, see your doctor immediately.
Failure to comply could result in death or serious injury.

W0178A

⚠ WARNING

Battery gas can explode!
To prevent an explosion: 1. Always disconnect the negative (-) battery cable first. 2. Always connect the negative (-) battery cable last. 3. Do not short circuit the battery posts with metal objects. 4. Do not weld, grind, or smoke near a battery.
Failure to comply could result in death or serious injury.

W0011A

⚠ WARNING

Chemical hazard!
Battery posts, terminals, and related accessories contain lead and lead compounds. Wash hands after handling.
Failure to comply could result in death or serious injury.

W0349A

Prior operation:
Vacuum system control valve - Assemble - Dual section motor control valve block - Proportional flow control valve (35.745)
Prior operation:
Vacuum system control valve - Assemble - Dual section motor control valve block - Coast down check valve (35.745)
Prior operation:
Vacuum system control valve - Assemble - Dual section motor control valve block - Flow limiter control valve (35.745)
Prior operation:
Vacuum system control valve - Assemble - Dual section motor control valve block - Unloading valve (Power Take-Off (PTO) equipped planters only) (35.745)
Prior operation:
Vacuum system control valve - Assemble - Dual section motor control valve block - Unloading valve cavity plug (35.745)
Prior operation:
Vacuum system control valve - Assemble - Dual section motor control valve block - Pressure relief valve (Power Take-Off (PTO) equipped planters only) (35.745)
Prior operation:
Vacuum system control valve - Assemble - Dual section motor control valve block - Pressure relief valve cavity plug (35.745)
Prior operation:
Vacuum system control valve - Assemble - Dual section motor control valve block - Signal check valve (35.745)
Prior operation:
Vacuum system control valve - Assemble - Dual section motor control valve block - Signal flow regulator (35.745)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Control valve - Torque - Bulk fill fan valve block components

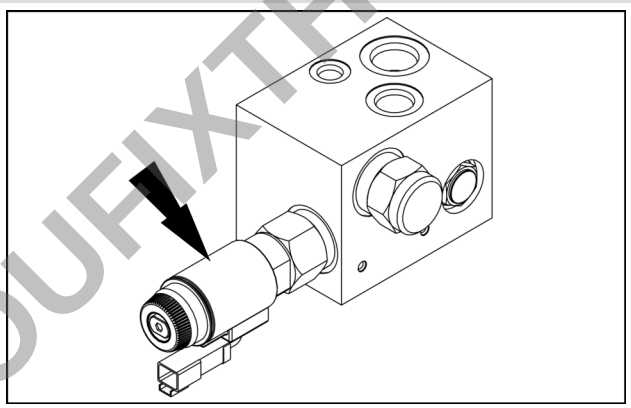
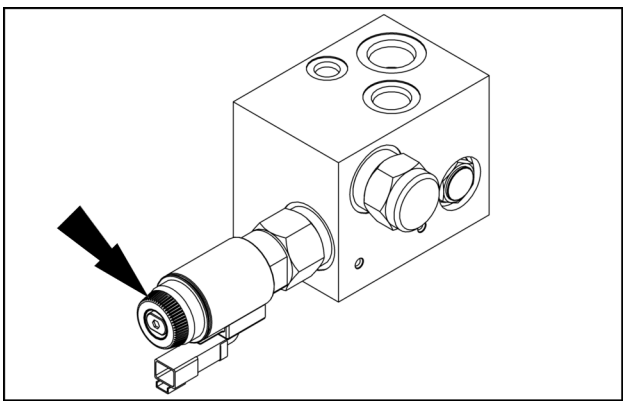
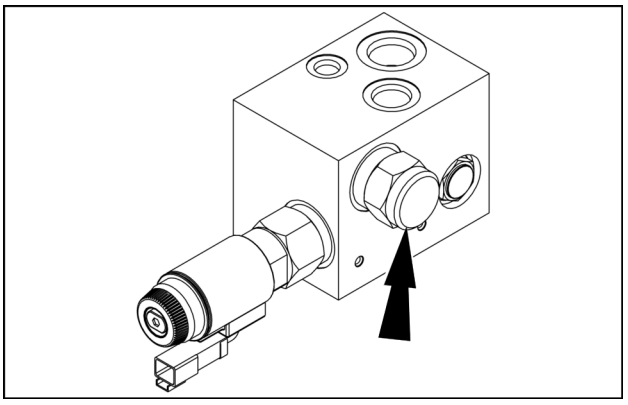
Bulk fill valve block - Hydraulic adapter fittings to valve block torque values

Port used	Torque value
P	**65 - 80 N·m** (**48 - 59 lb ft**)
T	**96 - 117 N·m** (**71 - 86 lb ft**)
M1	**65 - 80 N·m** (**48 - 59 lb ft**)
M2	**96 - 117 N·m** (**71 - 86 lb ft**)

Bulk fill valve block - Hydraulic hoses to adapter fittings torque values

Port used	Torque value
P	**90 - 110 N·m** (**66 - 81 lb ft**)
T	**90 - 110 N·m** (**66 - 81 lb ft**)
M1	**58 - 71 N·m** (**43 - 52 lb ft**)
M2	**90 - 110 N·m** (**66 - 81 lb ft**)

Valves and solenoid coils

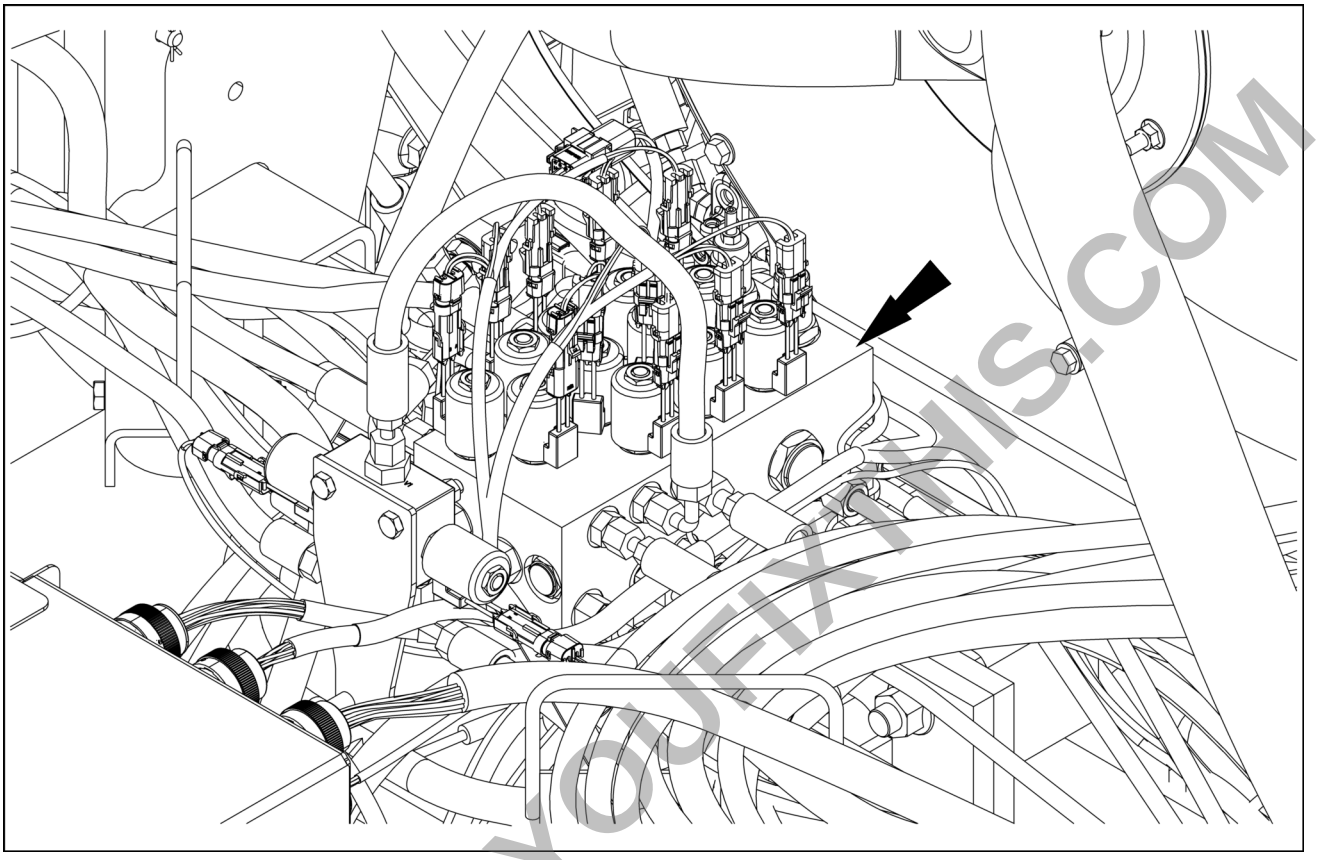
Component	Torque	Identification
Proportional flow control solenoid valve	**108 - 122 N·m** (**80 - 90 lb ft**)	 SAVM16PLA0229AA 1
Solenoid coil mounting nut	**2.5 - 3 N·m** (**22 - 27 lb in**)	 SAVM16PLA0229AA 2
Flow limiter	**108 - 122 N·m** (**80 - 90 lb ft**)	 SAVM16PLA0229AA 3

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Folding control valve - Component localization - 12/16 Row lift/fold valve block

The lift and fold valve block is located on top of the toolbar in the center section of the planter.



SAVM16PLA0226FA 1

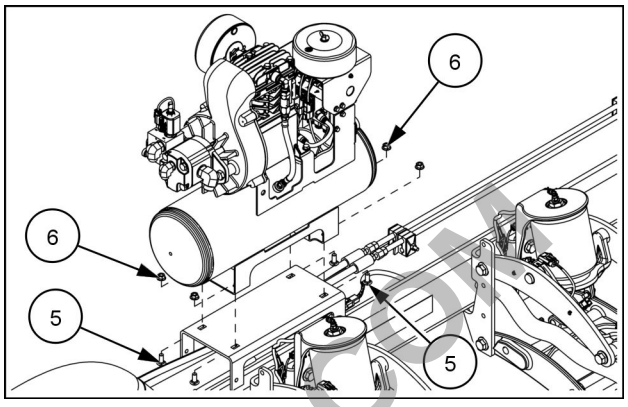
12/16 Row planter - Lift and fold valve block location

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

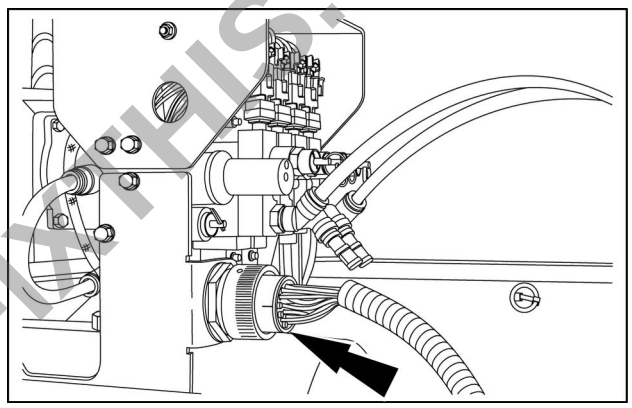
Pneumatic compressor - Install

1. Install the compressor onto the compressor mounting location on the toolbar.
2. Secure the compressor to the mounting location with the four M10 x 25 carriage bolts **(5)** and four M10 flange nuts **(6)**.



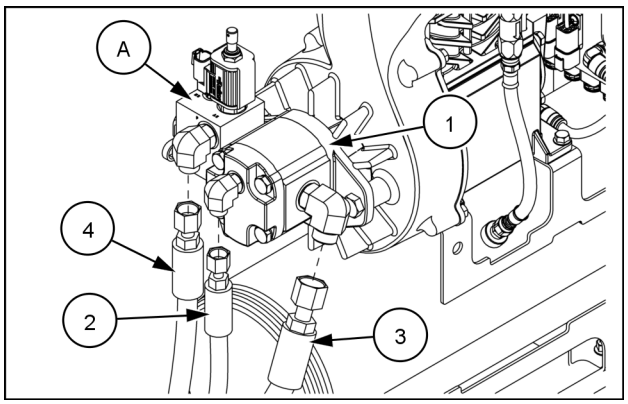
SAVM16PLA0455AA 1

3. Connect the main compressor harness to the compressor.



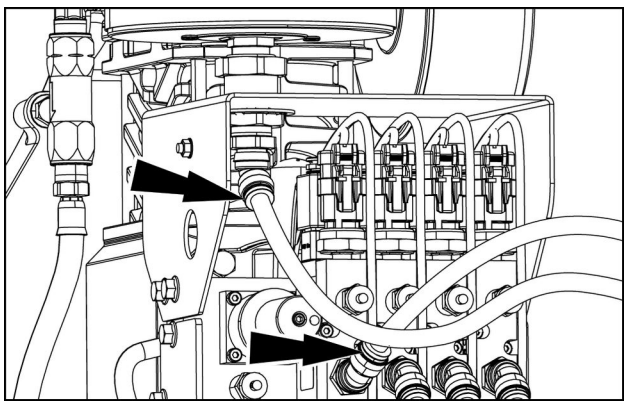
SAIL15PLA0329AA 2

4. Connect the hydraulic ‘pressure’ hose **(4)** to the fitting on the compressor valve block **(A)**.
5. Connect the hydraulic ‘return’ hose **(3)** to the fitting on the rear of the compressor hydraulic motor **(1)**.
6. Connect the ‘case drain’ hose **(2)** to the fitting located in the center port on the compressor hydraulic motor **(1)**.



SAVM16PLA0073AA 3

7. Reconnect any air lines that were disconnected from the compressor pneumatic pilot valves and the return air filter.

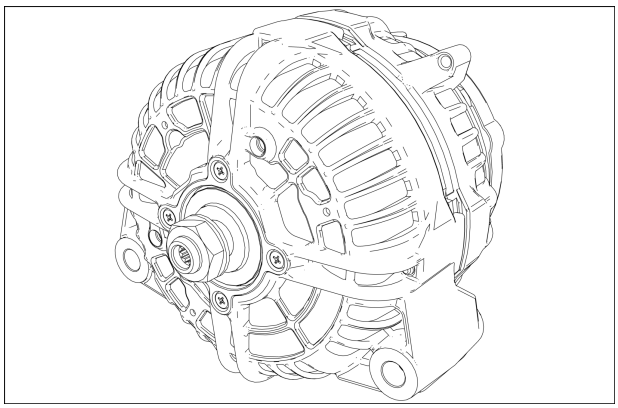


RAIL15PLA0621AA 4

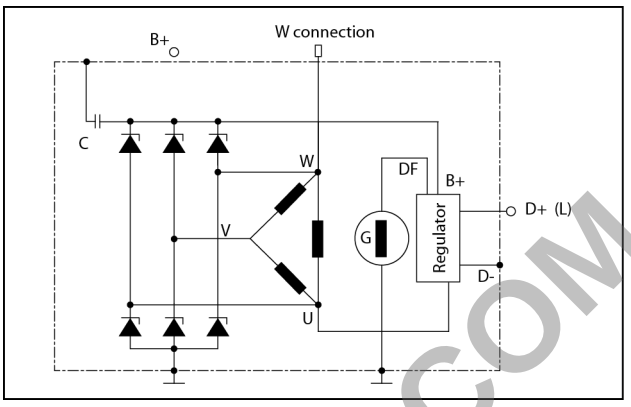
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Electrical components - Technical Data - Alternator



NHVM16PLA0025FA 1

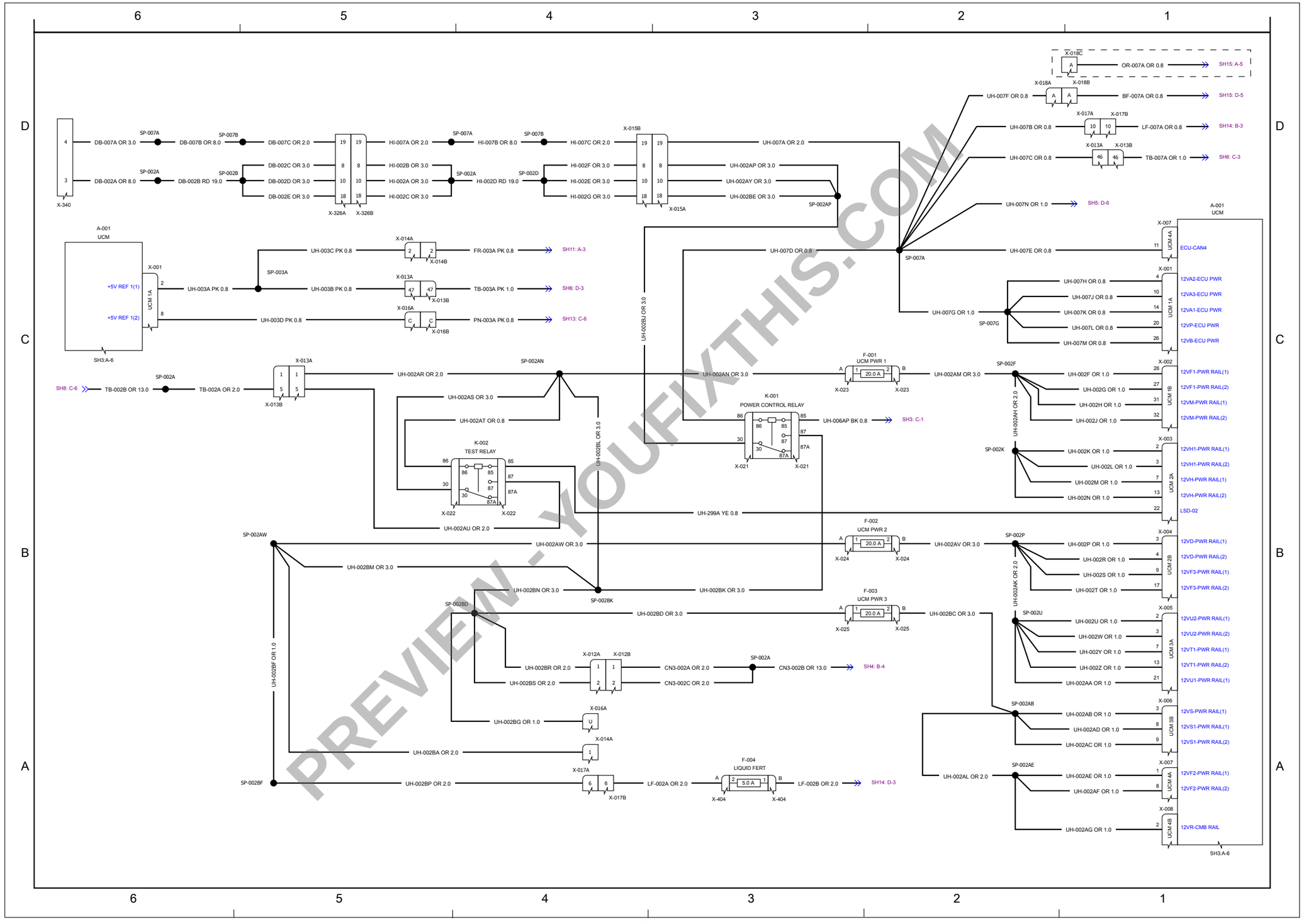


NHIL16PLA0055AA 2

Parameter	Specification
Weight	**7.5 kg** (**16.5 lb**)
Cut-in speed	**1450 RPM**
B+ connection (Terminal) current output at **1800 RPM** with stabilized temperature of **23 °C +/- 5** (**73 °F +/- 16**) and **13.5 V +/- 0.1**	**90 A**
B+ connection (Terminal) current output at **6000 RPM** with stabilized temperature of **23 °C +/- 5** (**73 °F +/- 16**) and **13.5 V +/- 0.1**	**200 A**
W connection (Terminal)	6 pulses per revolution and output current limit of less than **500 mA**
D+ (L) connection (Terminal) with alternator not functioning (L terminal pulled to ground for lamp circuit)	Lamp illuminated and input current limit less than **160 mA**
D+ (L) connection (Terminal) with alternator in normal operation (L terminal voltage is that of alternator output voltage)	Lamp not illuminated or power supplied output current limit of less than **500 mA**
Direction of rotation	Clockwise, directional arrow is located on the front side of the drive end bearing seat.
Maximum permissible speed	**15000 RPM**

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com



PREVIEW - YOUFIXTHIS.COM

SHT_2 1

Download full manual at youfixthis.com

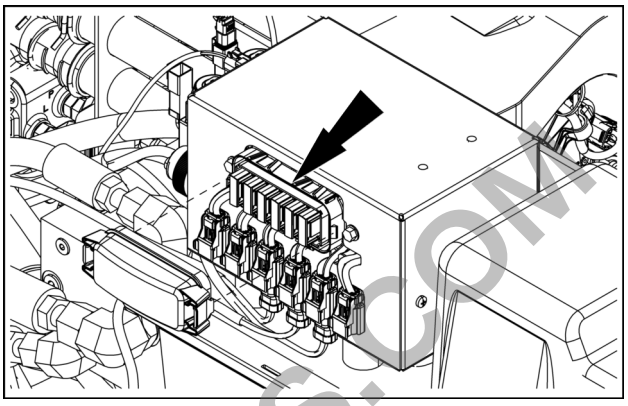
Fuse and relay box - Component identification

Fuse location and information

There are **40 A** maxi fuses located on the Power Distribution Module (PDM) which is found on the left-hand wing. Remove the fuse box cover to access the fuses.

These fuses are for **12 V** power to the three main sections of the planter (left-hand, center, and right-hand).

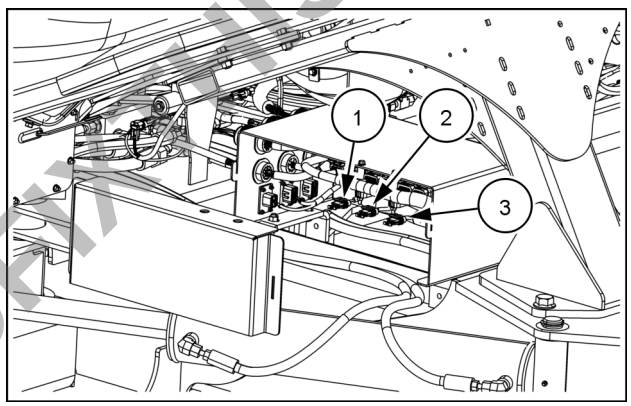
NOTE: *Only 3 three maxi fuses are used on the 2150 12 and 16 Row planters, the remaining fuses may be used as spares.*



SAVM15PLA0751AA 1

There are three **20 A** Universal Control Module (UCM) input fuses located in the box with the UCM on the center frame.

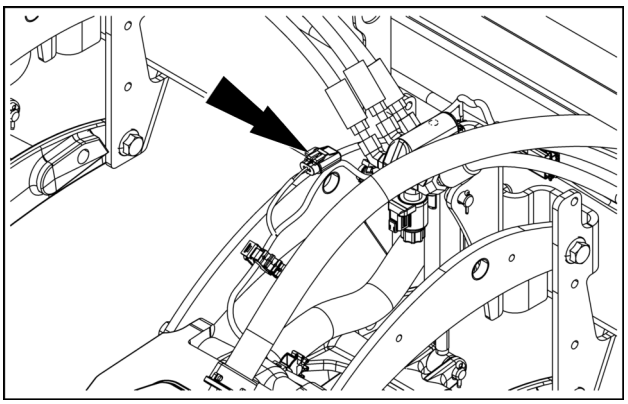
These fuses are labeled (1,2,3) and provide internal **12 V** power to various functions of the UCM.



SAVM15PLA0750AA 2

Each row unit backbone harness has one **15 A** fuse located at the upper parallel links.

This fuse supplies **12 V** power to row unit functions such as **vDrive®**, **SpeedTube™** (if equipped), Single Row Module (SRM), on-row fertilizer solenoid (if equipped), **DeltaForce®** valve solenoid (if equipped), and row unit load cell (if equipped).

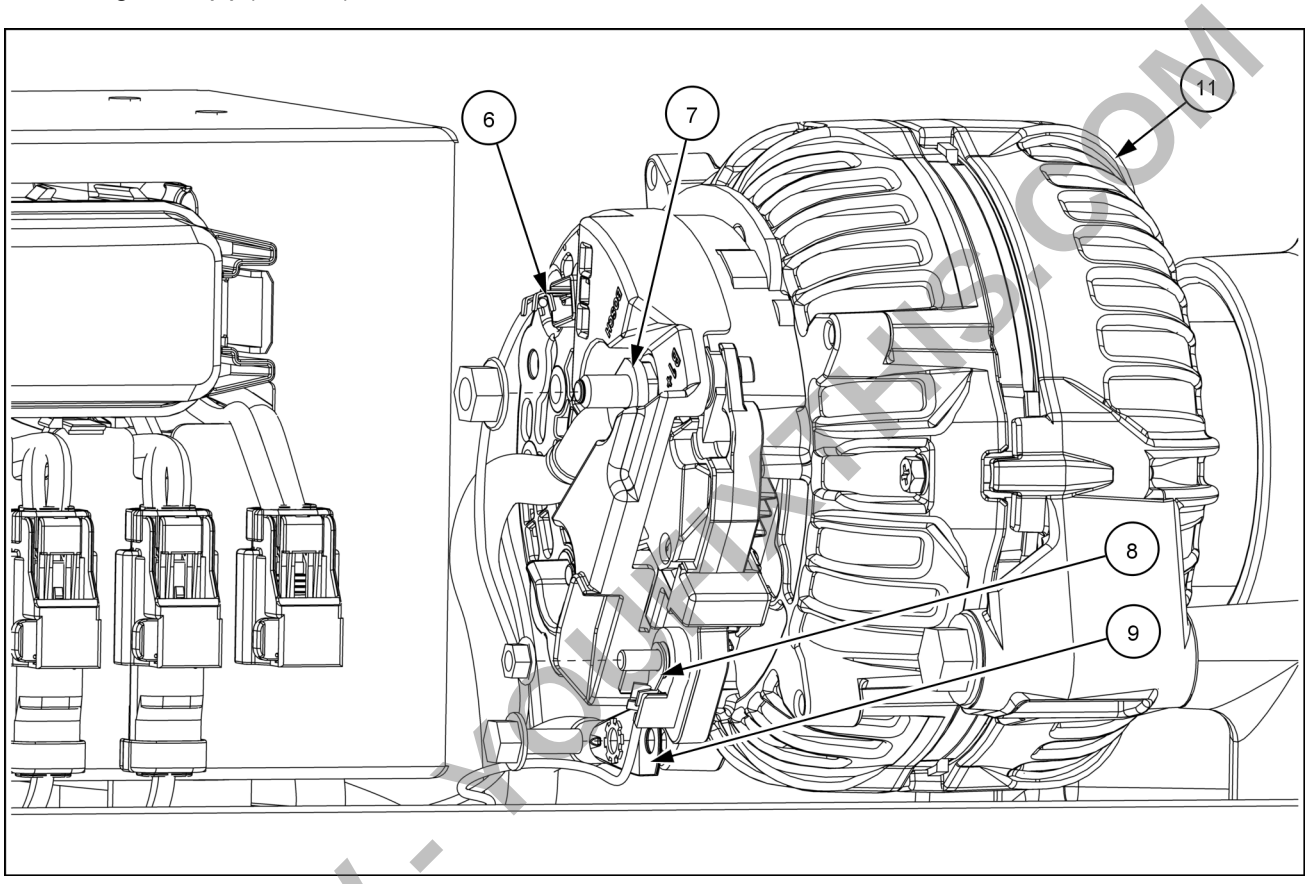


SAVM15PLA0811AA 3

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

7. Remove the following harness connections from the alternator **(11)**:
   - Alternator speed **(6)** (**X-174**)
   - Alternator positive **(7)** (**X-171**)
   - Alternator voltage **(8)** (**X-175**)
   - PDM ground **(9)** (**X-172**)



SAVM16PLA0451FA 4

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Electrical systems - 55

FAULT CODES - DTC

2150 Small Front Fold Trailing Early Riser 12 Row with 2 point hitch 30 inch spacing
2150 Small Front Fold Trailing Early Riser 16 Row with 2 point hitch 30 inch spacing
2150 Small Front Fold Trailing Early Riser 16 Row with Drawbar hitch 30 inch spacing

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

From	To	Value
X-170B (Receptacle) pin 2	chassis ground	There should be no continuity.

A. If there is continuity, leave connectors **X-170A** and **X-170B** disconnected and continue with Step **5**.

B. If there is no continuity, wire AL-301A YE in the frame (FR) harness is shorted to ground. Locate and repair the damage to the conductor or replace the harness.

5. Check the excitation relay **K-003** toolbar (TB) harness HSD control circuit for a short to ground condition.

   Disconnect the toolbar (TB) harness connector **X-013B** from the UCM interface (UH) harness connector **X-013A** at the UCM bulkhead.

   With the key switch in the OFF position, use a multimeter to check for continuity on the UCM interface (UH) harness side :

From	To	Value
X-013A (Receptacle) pin 15	chassis ground	There should be no continuity.

A. If there is continuity, leave connectors **X-170A** and **X-170B** disconnected and continue with Step **6**.

B. If there is no continuity, wire TB-301A YE in the toolbar (TB) harness is shorted to ground. Locate and repair the damage to the conductor or replace the harness.

6. Check the excitation relay **K-003** UCM interface (UH) harness HSD control circuit for a short to ground condition.

   Disconnect the UCM interface (UH) harness connector from the planter UCM **A-001** at connector **X-008**.

   With the key switch in the OFF position, use a multimeter to check for continuity on the UCM interface (UH) harness side :

From	To	Value
X-008 (Receptacle) pin 29	chassis ground	There should be no continuity.

A. If there is no continuity, continue with Step **7**.

B. If there is continuity, wire UH-301A WH in the UCM interface (UH) harness is shorted to ground. Locate and repair the damage to the conductor or replace the harness.

7. Use the Electronic Service Tool (EST) to check the status of the current software.

   Re-flash and/or re-configure as required.

   Re-check the status of this fault.

   A. If this fault is still present and active, the UCM **A-001** has failed internally. Replace the UCM **A-001**.

   B. If this fault is not present, return the planter to field operation and monitor for a recurring fault.

8. Visually inspect the relevant harnesses and connectors for damage, bent or dislocated pins, corroded terminals, or broken wires.

   Verify that the connectors are fully installed.

   Flex the harnesses involved to reveal intermittent breaks or shorts in the wiring concerned.

   Operate the machine while you monitor the display.

   A. If you find damage or the display indicates other than normal display readings, then repair the damage discovered during the inspection or locate and repair the other than normal display condition and verify that the error has been resolved.

   B. If you do not find damage and the display indicates only normal readings, then erase the fault code and continue operation.

Wiring harnesses - Electrical schematic sheet 06 - Toolbar (55.100.DP-C.20.E.06)

Download full manual at youfixthis.com
PREVIEW - YOUFIXTHIS.COM

5801-03-UCM Power Fault (12V)

Control Module : Planter UCM

Context:
The planter Universal Control Module (UCM) **A-001** internally monitors the input source voltage for UCM **A-001** circuits. The UCM **A-001** detects a greater than normal voltage source condition, and triggers this fault.

Cause:
The UCM **A-001** detects a higher than normal input source voltage condition.

Possible failure modes:

1. Faulty tractor power supply wiring.
2. Faulty UCM **A-001**, internal failure.

Solution:

1. Check the tractor to the planter power supply.

   Disconnect the drawbar (DB) harness to the tractor connector **X-340**.

   With the key switch in the ON position and the tractor running, use a multimeter to check for voltage on the tractor side :

From	To	Value
X-340 (Receptacle) pin 4	chassis ground	There should be appropriate charging system voltage present.

   A. If there is appropriate charging system voltage, the UCM **A-001** has failed internally.
   Replace the UCM **A-001**.

   B. If there is greater than normal charging system voltage, the tractor wiring is shorted to a voltage source greater than the normal charging system voltage. Consult the appropriate tractor service manual to locate and repair the shorted condition.

Wiring harnesses - Electrical schematic sheet 02 - Power distribution (55.100.DP-C.20.E.02)

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

5904-18-Load Sensor Error

Control Module : Planter SRM

Context:
The planter Universal Control Module (UCM) **A-001** communicates with each Single Row Module (SRM) **A-004** via the Controller Area Network (CAN). Each SRM **A-004** monitors the operation of the row unit strain gauge (load cell) **B-023** sensor. If a SRM **A-004** detects an average strain of less than **-13.6 kg** (**-30 lb**) for at least **4 s**, this fault will occur.

Cause:
The planter SRM **A-004**, for the row specified in the fault, detects an average strain of less than **-13.6 kg** (**-30 lb**) for at least **4 s**.

Possible failure modes:

1. The row load cell needs a re-zero, use the display and follow the on-screen instructions.
2. The strain gauge (load cell) **B-023** sensor has failed, replace and calibrate.

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

B. If there is no continuity, wire PNM-346A YE in the pneumatics - Parker (PNM) harness is broken. Locate and repair the damage to the conductor or replace the harness.

8. Check the tank pressure **B-010** sensor pneumatic (PN) harness signal circuit for an open circuit condition.

   Disconnect the in-line pneumatic (PN) harness connector **X-016B** from the UCM interface (UH) harness connector **X-016A** at the UCM bulkhead.

   Place a jumper wire, on the pneumatic (PN) harness side, between **X-016B (Plug) pin D** and chassis ground.

   With the key switch in the OFF position, use a multimeter to check for continuity on the pneumatic (PN) harness side :

From	To	Value
X-361A (Receptacle) pin D	chassis ground	There should be continuity.

   A. If there is continuity, continue with Step **9**.

   B. If there is no continuity, wire PN-346A YE in the pneumatic (PN) harness is broken. Locate and repair the damage to the conductor or replace the harness.

9. Check the tank pressure **B-010** sensor UCM interface (UH) harness signal circuit for an open circuit condition.

   Disconnect the UCM interface (UH) harness connector from the planter UCM **A-001** at connector **X-002**.

   With the key switch in the OFF position, use a multimeter to check for continuity on the UCM interface (UH) harness side :

From	To	Value
X-016A (Receptacle) pin D	**X-002 (Receptacle) pin 13**	There should be continuity.

   A. If there is continuity, continue with Step **10**.

   B. If there is no continuity, wire UH-346A YE in the UCM interface (UH) harness is broken. Locate and repair the damage to the conductor or replace the harness.

10. Replace the tank pressure **B-010** sensor, then re-check the status of this fault.

    A. If this fault is still present and active, continue with Step **11**.

    B. If this fault is not present, return the planter to field operation and monitor for a recurring fault.

11. Use the Electronic Service Tool (EST) to check the status of the current software.

    Re-flash and/or re-configure as required.

    Re-check the status of this fault.

    A. If this fault is still present and active, the UCM **A-001** has failed internally. Replace the UCM **A-001**.

    B. If this fault is not present, return the planter to field operation and monitor for a recurring fault.

12. Visually inspect the relevant harnesses and connectors for damage, bent or dislocated pins, corroded terminals, or broken wires.

    Verify that the connectors are fully installed.

    Flex the harnesses involved to reveal intermittent breaks or shorts in the wiring concerned.

    Operate the machine while you monitor the display.

    A. If you find damage or the display indicates other than normal display readings, then repair the damage discovered during the inspection or locate and repair the other than normal display condition and verify that the error has been resolved.

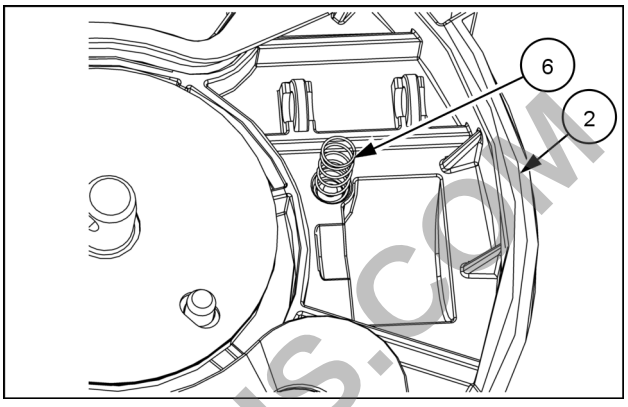
    B. If you do not find damage and the display indicates only normal readings, then erase the fault code and continue operation.

PREVIEW - YOUFIXTHIS.COM
Download full manual at youfixthis.com

Electrically driven seed meter - Install - Seed ejector

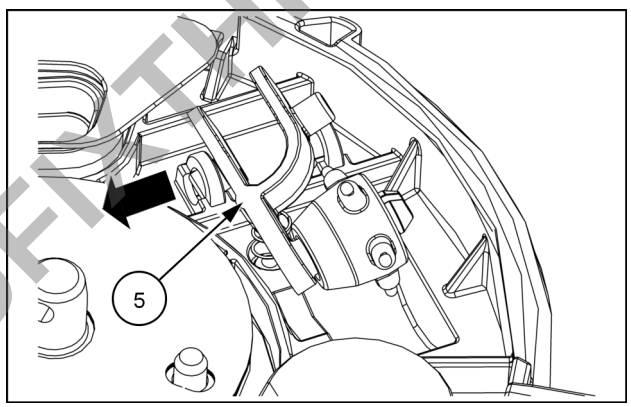
Prior operation:
Seed tube - Inspect (61.901)

1. Insert the seed ejector assembly spring **(6)** into the indentation on the seed meter housing **(2)**.



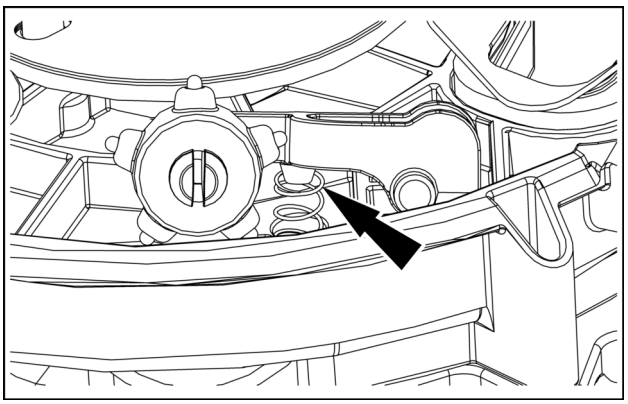
SAVM15PLA0506AA 1

2. Insert one peg on the seed ejector assembly arm **(5)** into the retention hole on the seed meter housing.



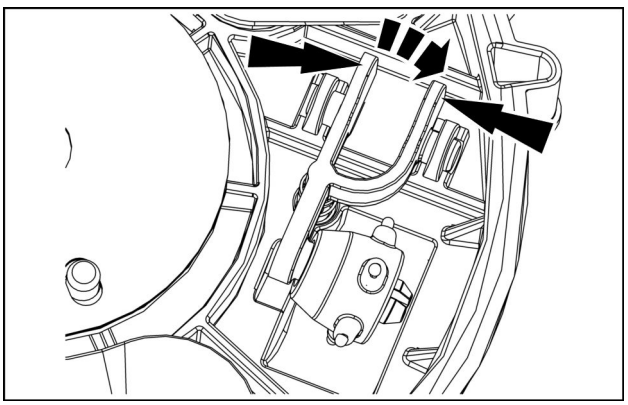
SAVM15PLA0507AA 2

3. Align the seed ejector assembly spring to the tab on the bottom of the seed ejector assembly.



SAVM15PLA0508AA 3

4. Press the seed ejector assembly arms together, insert the second peg into the second retention hole, and release the pressure on the arms.
5. Verify that the seed ejector assembly is seated properly into the retention holes and the spring.



SAVM15PLA0509AA 4

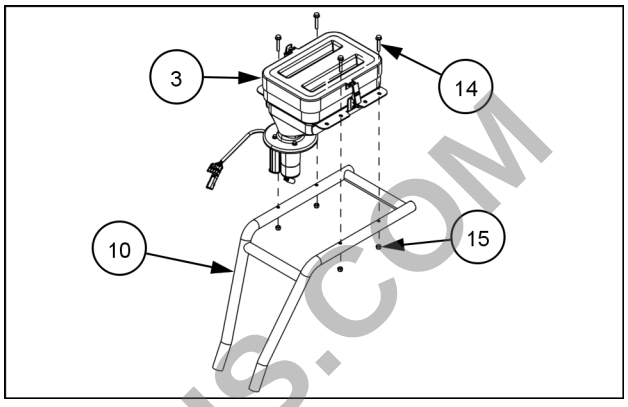
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Tank - Remove - Granular chemical hopper

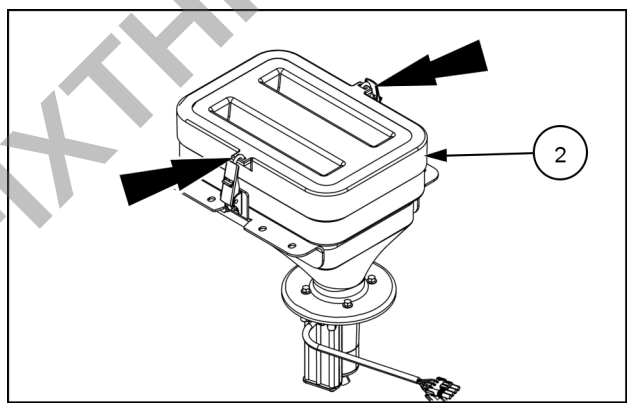
Prior operation:
Basic instructions - Planter preparation for service - Lowered position ()

1. Remove the four M8x45 flange bolts **(14)** and the previously torqued nuts **(15)** from the granular chemical hopper.
2. Remove the granular chemical hopper **(3)** from the tube frame **(10)**.



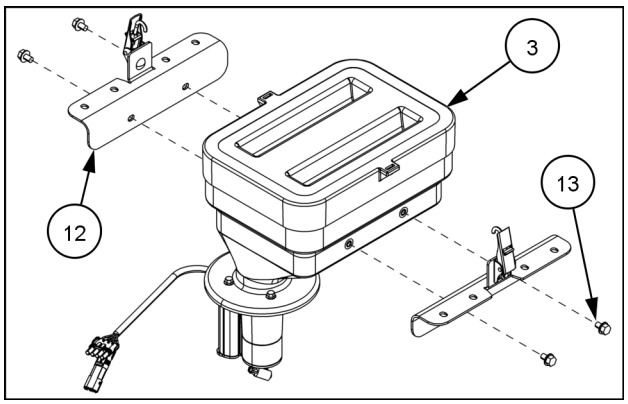
SAVM15PLA0284AA 1

3. Unlatch the meter cover **(2)** from the granular chemical hopper assembly.



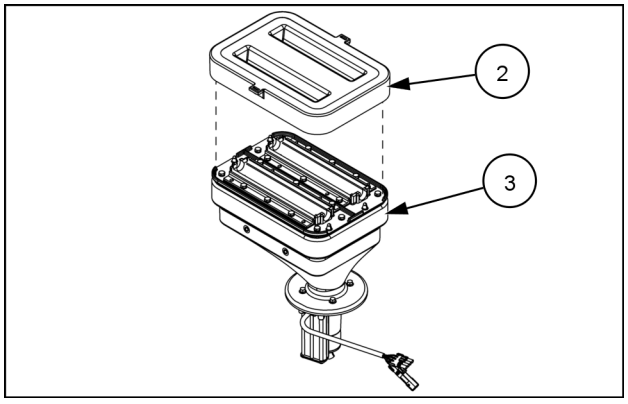
SAVM15PLA0583AA 2

4. Remove the four M8x12 flange bolts **(13)** and the two support brackets **(12)** from the hopper.



SAVM15PLA0274AA 3

5. Remove the meter cover **(2)** from the granular chemical hopper **(3)** assembly.



SAVM15PLA0582AA 4

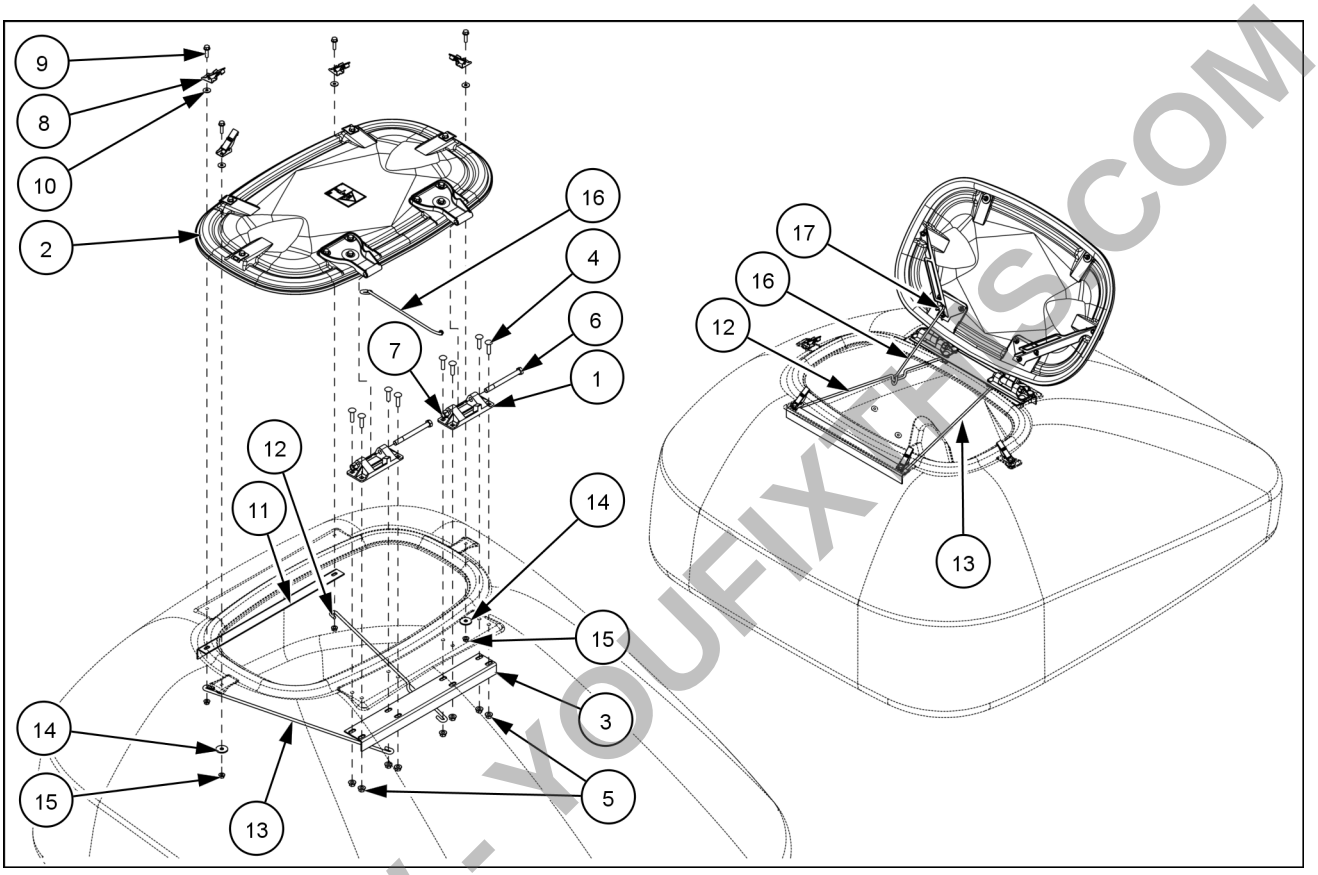
PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

Tank - Inspect - Bulk fill hopper tank lid

Prior operation:
Tank - Remove - Bulk fill hopper tank lid (79.100)

1. Inspect the lid components and service or replace the components as needed.



SAPE16PLA0348FA 1

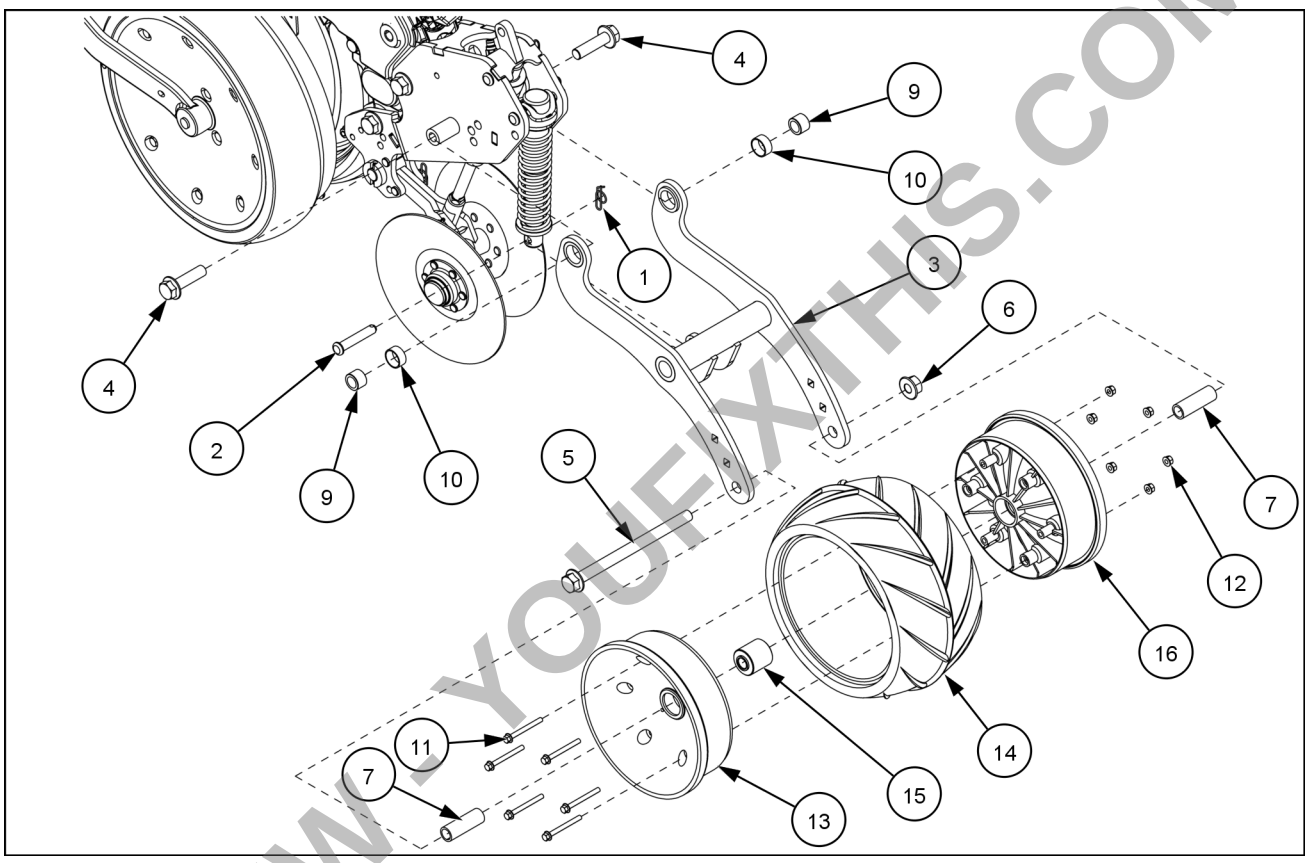
Reference	Description
1	PIVOT, LID
2	LID, BF TANK ASSY
3	BRACKET, BACK HOPPER BRACE-PNTD
4	BOLT, RDH SHT SQNK FULL M10X40 8.8 ZND
5	NUT, HEX FLANGE M10 8 ZND *
6	BOLT, 1/2-13 X 5-1/2 GR5 ZND
7	NUT, PREV TORQ ALL MTL 1/2-13 GR B ZND
8	LATCH, UNDERCENTER DOUBLE LOCK SS
9	BOLT, FLANGE M8X30 FULL 8.8 ZND
10	WASHER, NEOPRENE RUBBER ****
11	SUPPORT, TANK LID-PNTD
12	SAFETY ROD, LH TANK SUPPORT 5/16 OD
13	SAFETY ROD, RH TANK SUPPORT 5/16 OD
14	WASHER, 10.2 X 35 X 3 MM CST ZND ***
15	NUT, HEX FLANGE M8 8 ZND *
16	ROD, LID PROP **
17	NUT, PREV TORQ ALL MTL 5/16-18 GR B ZND
*	These nuts are secured from inside the tank.
**	Thread the safety rod through the eye of the prop rod. Thread the hook of the prop rod through the support brace of the lid.
***	Installed inside of the tank.
****	Rubber washer is installed on the outside of the tank.

Download full manual at youfixthis.com

Press wheel - Inspect - Press wheel

Prior operation:
Press wheel - Disassemble - Press wheel arm bushings (79.105)
Prior operation:
Press wheel - Disassemble - Press wheel and bushing (79.105)

1. Inspect all of the components that have been removed from the press wheel assembly and replace the components as necessary.



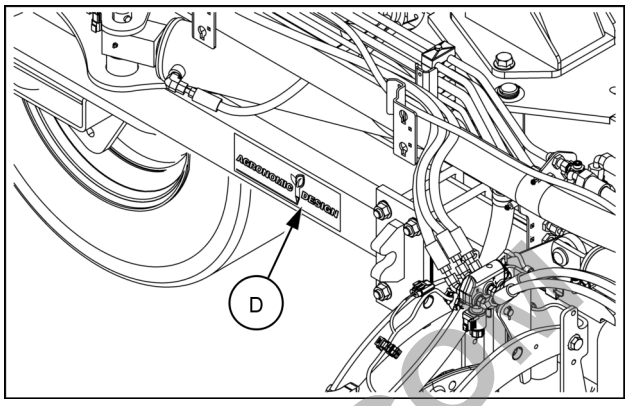
SAVM15PLA0421FA 1

Reference	Description
1	CLIP, LOCKING
2	PIN, CLEVIS 3/8 X 2.25 X 2 HTS ZND
3	ARM, PRESS WHEEL, RED
4	BOLT, LOCK, FLANGE M16X45 FULL 10.9 ZND
5	BOLT, FLANGE, M16 X 225 10.9 ZND
6	NUT, PREV TORQUE, FLANGE M16 10 ZND
7	SPACER, PRESS WHEEL
9	BUSHING, LINK PIVOT
10	BUSHING
11	BOLT FLANGE 1/4-20X2-1/2 GR5 ZND
12	NUT, PREV TORQUE, FLANGE 1/4-20 ZND
13	RIM, PRESS WHEEL
14	TIRE, 6.5 X 12 PRESS
15	BEARING 16MM BORE X 40MM WIDE
16	RIM, PRESS WHEEL

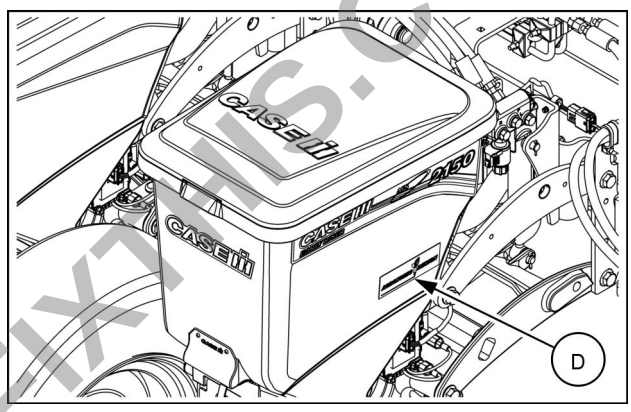
Next operation:
Press wheel - Assemble - Press wheel arm bushings (79.105)
Next operation:
Press wheel - Assemble - Press wheel and bushing (79.105)

Download full manual at youfixthis.com
PREVIEW - YOUFIXTHIS.COM

‘Agronomic Design’ decal **(D)** located on the right-hand inner wing and the outer right-hand On-Row hopper.

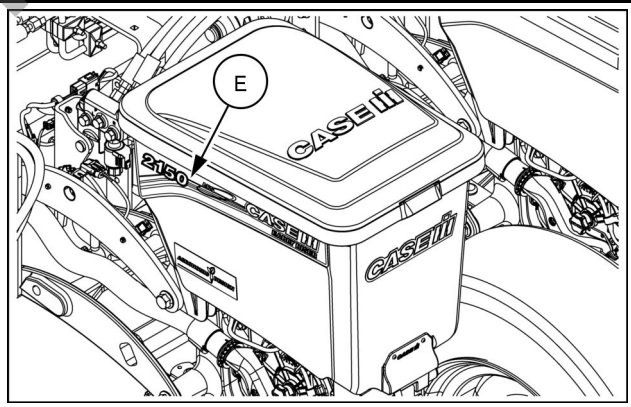


SAVM15PLA0822AA 5



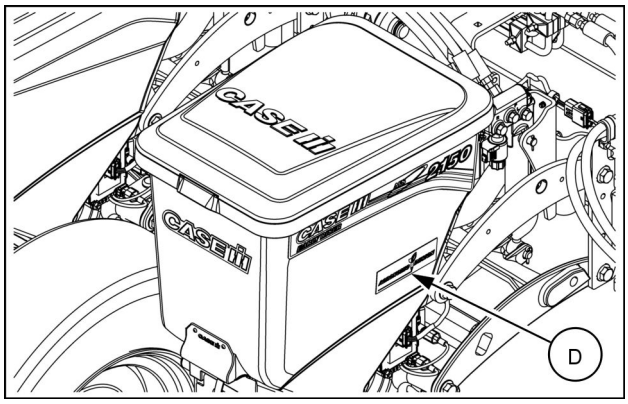
SAVM15PLA0827AA 6

Early Riser® 2150 decal **(E)** located on the outer left-hand On-Row hopper.



SAVM15PLA0826AA 7

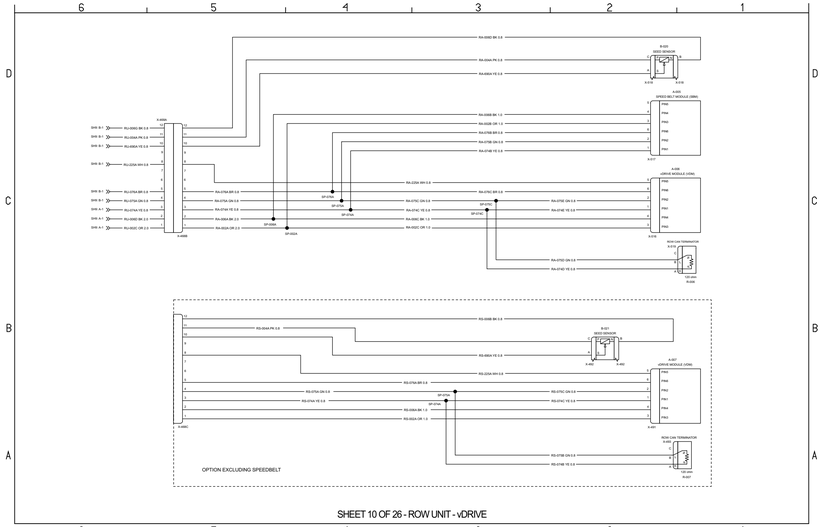
Early Riser® 2150 decal **(F)** located on the outer right-hand On-Row hopper.



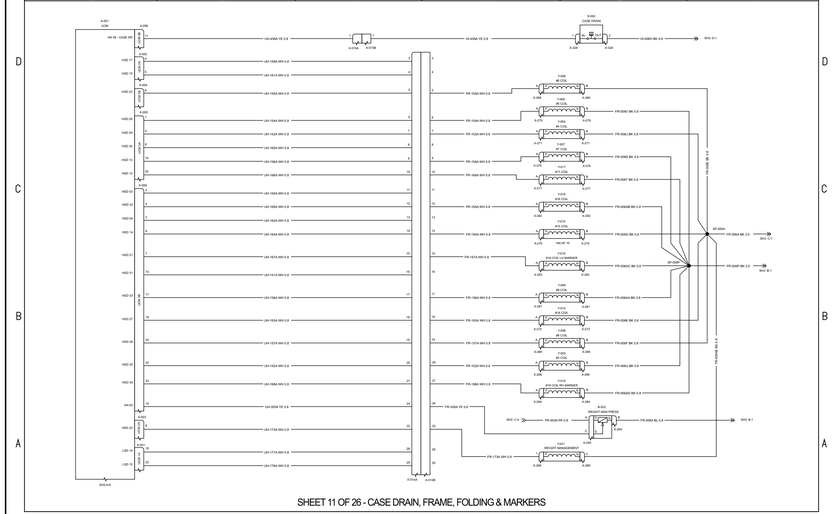
SAVM15PLA0827AA 8

PREVIEW - YOUFIXTHIS.COM

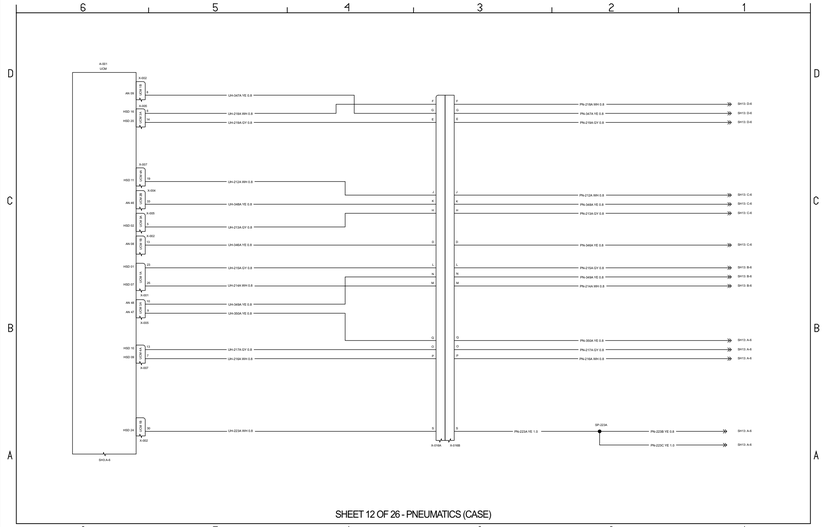
Download full manual at youfixthis.com



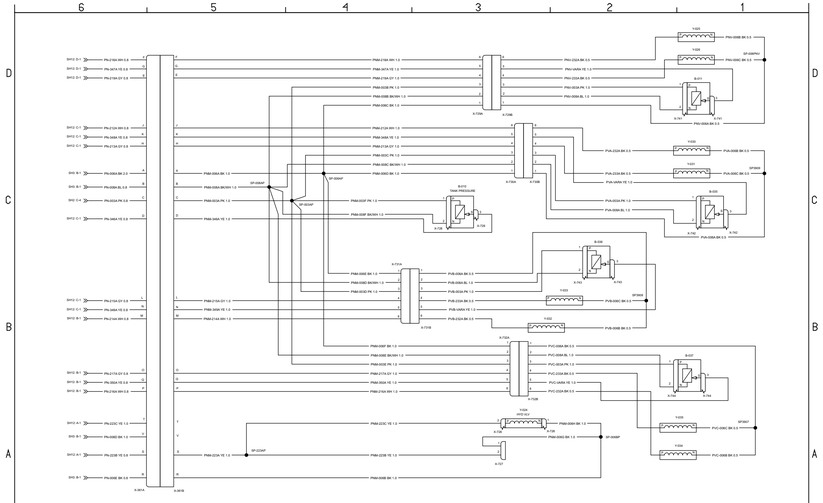
SHEET 10 OF 26 - ROW UNIT - vDRIVE



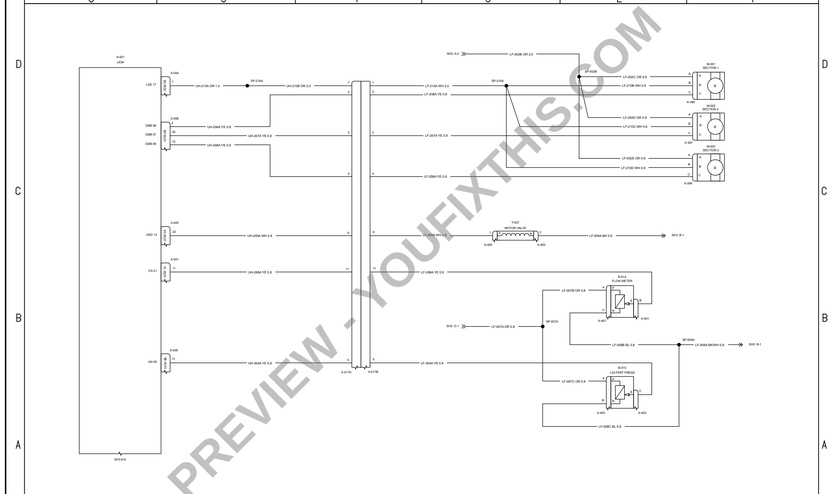
SHEET 11 OF 26 - CASE DRAIN, FRAME, FOLDING & MARKERS



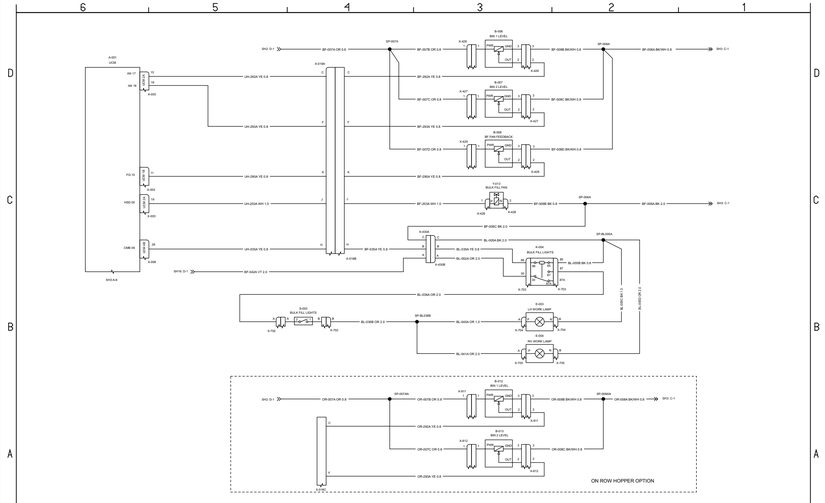
SHEET 12 OF 26 - PNEUMATICS (CASE)



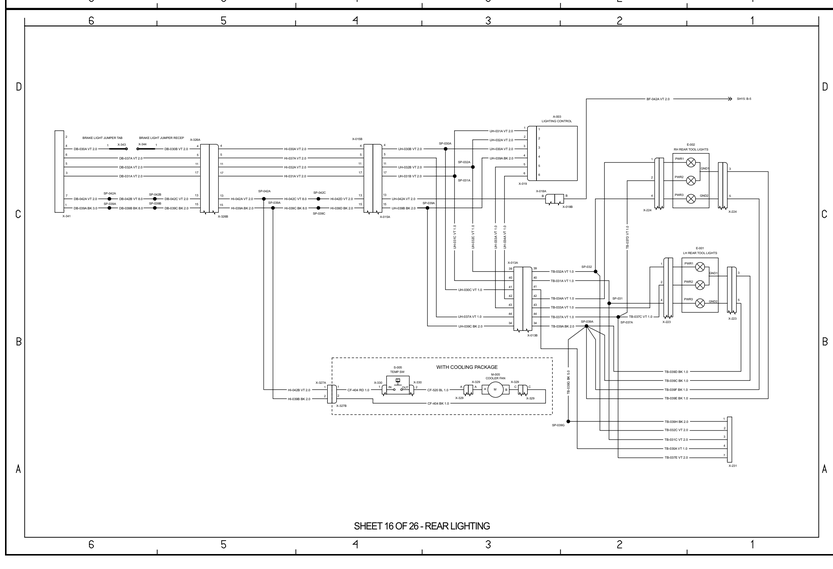
SHEET 13 OF 26 - PNEUMATICS (PARKER)



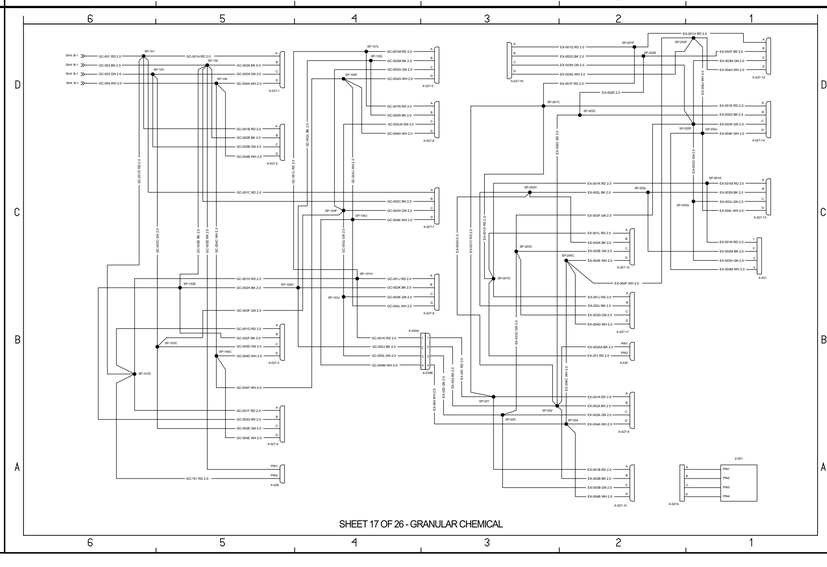
SHEET 14 OF 26 - LIQUID FERTILIZER (SECTION)



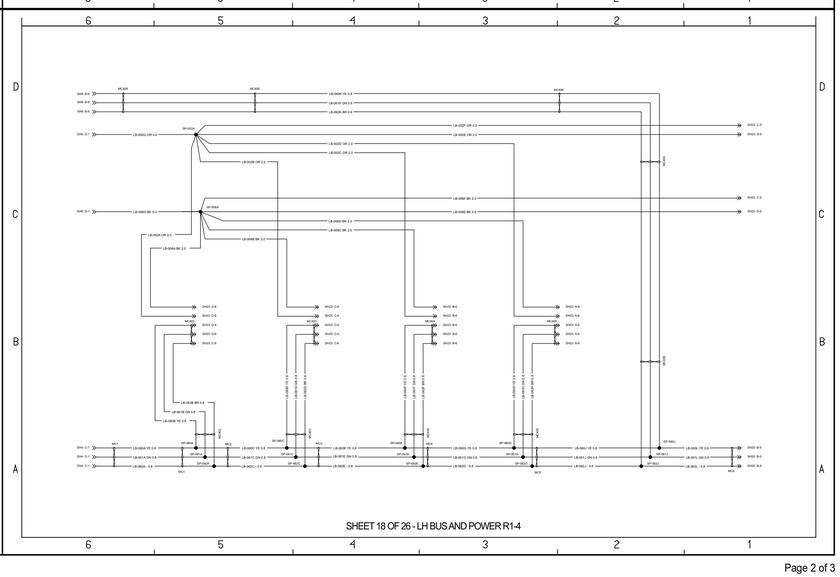
SHEET 15 OF 26 - BULK FILL & ON ROW HOPPERS (OPTION)



SHEET 16 OF 26 - REAR LIGHTING



SHEET 17 OF 26 - GRANULAR CHEMICAL



SHEET 18 OF 26 - LH BUS AND POWER R1-4

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

[55.036] Hydraulic system control 55.1
[55.100] Harnesses and connectors 55.2
[55.301] Alternator 55.3
[55.302] Battery 55.4
[55.516] Seeding control system 55.5
[55.636] Application fertilizer control 55.6
[55.640] Electronic modules 55.7
[55.785] Precision farming system 55.8
[55.860] Frame positioning system 55.9
[55.DTC] FAULT CODES 55.10
Metering system 61
[61.901] Metering mechanical drive 61.1
[61.904] Product metering 61.2
Chemical applicators 63
[63.100] Liquid fertilizer system 63.1
[63.110] Granular chemical system 63.2
Soil preparation/Finishing 75
[75.200] Ground-engaging components 75.1
Planting 79
[79.100] Product handling and delivery drive system 79.1
[79.101] Planting fan system 79.2
[79.103] Planting vacuum system 79.3
[79.104] Planting marking system 79.4
[79.105] Planting tool 79.5
Platform, cab, bodywork, and decals 90
[90.108] Decals and plates 90.1

PREVIEW - YOUFIXTHIS.COM

Download full manual at youfixthis.com

PREVIEW ONLY

You're viewing 25 of 2019 pages

The full manual includes:

- All 2019 pages, complete
- Searchable PDF (find any keyword)
- No watermarks
- Instant download
- Print-ready quality

GET FULL MANUAL NOW

Case IH 2150 12/16 Row Service Manual

Scan or click anywhere
youfixthis.com

Click anywhere on this page to get the full manual