Special tools

Ground Speed Signal Generator for Troubleshooting

NOTICE: *Use the necessary safety precautions when working around an planter that is in motion while using the signal generator.*

To connect the signal generator to the planter:

1. The ground speed sensor has three wires; red, LB+ power **12 V**; black, ground; green, speed signal.
2. Connect the black wire on the signal generator to the red power wire on the planter.
3. Connect the red wire on the signal generator to the green signal wire on the planter.

To operate the signal generator:

1. Set the generator switch to signal OUT.
2. Turn the generator switch to ON.
3. Enter the number 60 and press ENTER when powered.
4. Put in a number followed by ENTER when four dashes appear on the screen.
   - This second number represents a ground speed. By entering the number 45, you should get a readout of **6 mph** on the monitor.
   - A lower number entered will give a lower ground speed, and a higher number selects a faster ground speed. In all cases the number 60 (the first number entered) will always be the same.
5. With the ground speed signal being received by the Rate ECU, the planter hydraulics and electrical functions can be activated. When the planter is lowered to the START PLANT position, the seed drive motors will run the same as if running in a field.

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Valve block Lift and Pivot - Dynamic description - Planter raise/lower

Supplied by a single tractor remote valve, the lift and pivot valve hydraulically powers the following functions under the control of the Universal Display system:

- planter FULL raise for transport and FULL lower for planting,
- planter limited raise and lower for planting,
- planter wing raise and lower through the marker valve block,
- planter PIVOT from transport position to planting position,
- and planter PIVOT to transport position.

The valves couplers to the supply and return ports on the tractor remote valve are color-coded red.

The ports used for these functions on the lift and pivot valve block are:

Schematic reference: **Valve block Lift and Pivot - Hydraulic schema (A.10.A)**	
S (coupler)	Supply from the tractor remote valve
R (coupler)	Return to the tractor remote valve
S1	Supply to the marker valve block from the lift and pivot valve block
R1	Return from the marker valve block to the lift and pivot valve block
L1	Supply to the left hand toolbar raise/lower cylinder
L	Supply to the right hand toolbar raise/lower cylinder
LR1	Return from the left hand toolbar raise/lower cylinder
LR	Return from the right hand toolbar raise/lower cylinder

The ports used on the marker valve block for these functions are:

Schematic reference: **Valve block Marker - Hydraulic schema (A.10.A)**	
S	Supply from the lift and pivot valve block
R	Return to the lift and pivot valve block
LW	Supply/return for the left hand wing raise/lower cylinder
RW	Supply/return for the right hand wing raise/lower cylinder

Planter FULL raise, LIMITED raise and lower functions

The ECU (Electronic Control Unit) electronically controls the planter toolbar raise and lower functions using:

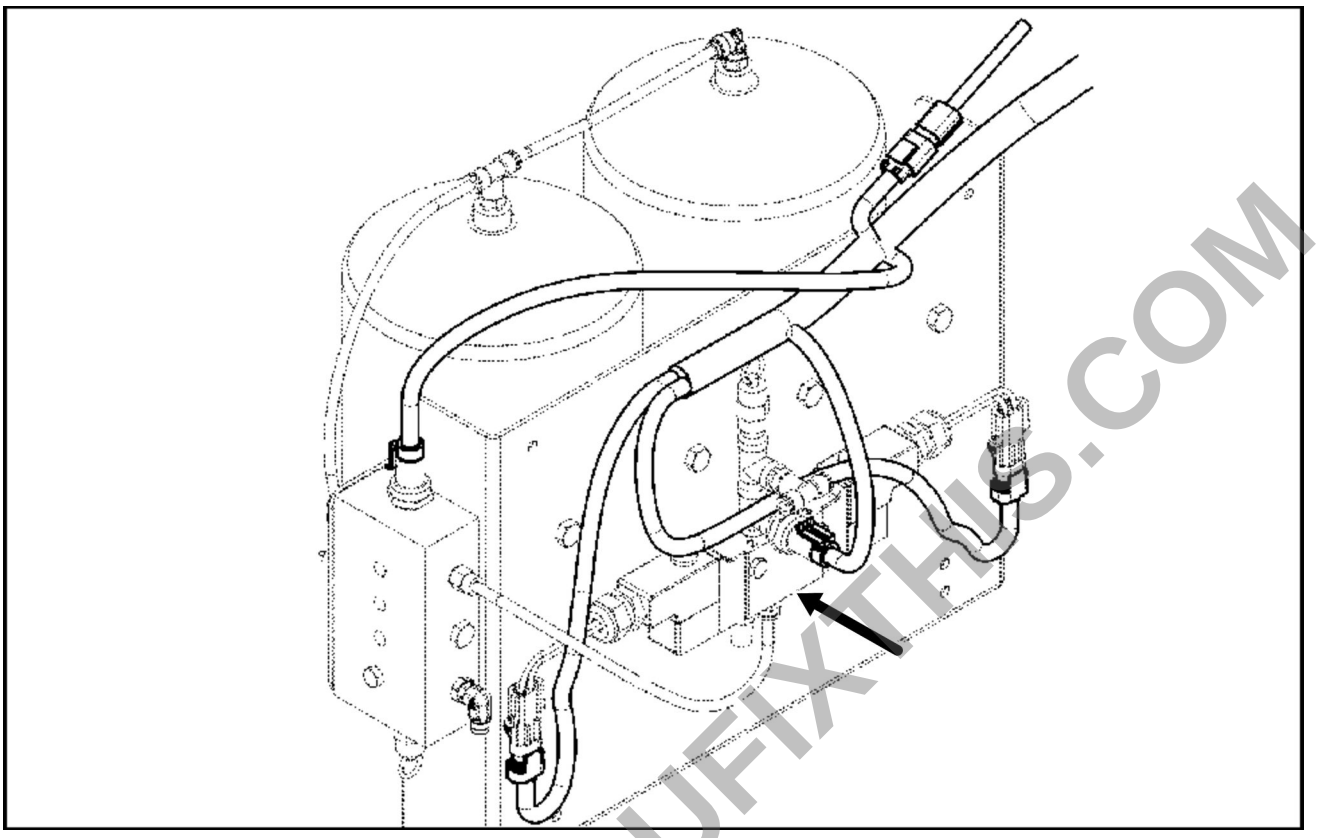
- values from the toolbar position potentiometer,
- solenoid actuated valves tagged 1, 2 and 3 [**SV_2**, **SV_3**, **SV_4**] on the lift and pivot valve block to enable and disable flow to the left hand and right planter raise/lower cylinders,
- ECU B+ to pin A of solenoid valves 2 and 4 [**SV_2**, **SV_4**].
- and the limited raise solenoid valve 3 [**SV_3**] to disable toolbar raise at the appropriate height in plant mode.

Planter raise/lower functionality varies with the operation mode selected on the Frame screen of the Universal Display: PLANT, FOLD or UNFOLD mode.

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Command valve - Component localisation - Pneumatic Pilot Valve



410434C 1

Pneumatic Pilot Valve

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HYDRAULIC, PNEUMATIC, ELECTRICAL, ELECTRONIC SYSTEMS - A

ELECTRICAL POWER SYSTEM - 30.A

1240 Pivot-Transport

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Wiring harness - Electrical schematic frame 04 - Splices

2 SECTION - SPLICES							
Splice	**Frame**		**Splice**	**Frame**		**Splice**	**Frame**
SPL-1	6, 9, 10		SPL-30	8		SPL-61	6
SPL-2	5, 10		SPL-35	9		CAN 1, 2, 3	11
SPL-3	8, 10, 13		SPL-38	9		CAN 4, 5, 6	11
SPL-4	5, 6, 13		SPL-39	10		CAN 7, 8, 9	11
SPL-5	6, 10, 13		SPL-43	9			
SPL-6	6, 10, 13		SPL-51	6			
SPL-7	10, 13		SPL-54	7			
SPl-8	10		SPL-55	7, 12			
SPL-9	8		SPL-56	7			
SPL-10	8, 13		SPL-57	7			
SPL-11	8, 13		SPL-59	7			
SPL-12	8		SPL-60	6, 12			

4 SECTION - SPLICES							
Splice	**Frame**		**Splice**	**Frame**		**Splice**	**Frame**
SPL-1	6, 9, 10, 13		SPL-30	8		SPL-60	12
SPL-2	5, 10, 13		SPL-35	9		CAN 1, 2, 3	11
SPL-3	8, 10, 13		SPL-38	9		CAN 4, 5, 6	11
SPL-4	5, 6, 11		SPL-39	10		CAN 7, 8, 9	11
SPL-5	6, 10, 13		SPL-43	9			
SPL-6	6, 10, 13		SPL-51	6			
SPL-7	10, 13		SPL-54	7			
SPl-8	10		SPL-55	7, 12			
SPL-9	8		SPL-56	7			
SPL-10	8		SPL-57	7			
SPL-11	8		SPL-58	6			
SPL-12	8		SPL-59	7			

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Faulty Output (nn)	Connector 1	Contact 1	Connector 2	Contact 2	Clutch Group #
17	**X-654**	L3	**X-655**	D	03
18	**X-654**	L2	**X-655**	C	02
19	**X-654**	L1	**X-655**	B	01

Clutch groups 05 and 06 are out of sequence as shown.
Cycle power.

A. Fault code 21nn4 is logged. Go to Step 7.

B. Fault code is not logged. Return unit to field operation.

7. Replace device connected to digital output showing fault.

Devices and their connectors associated with a given digital input are listed in the following table.

All connectors refer to the frame harness unless otherwise indicated.

Faulty Output (nn)	Device	Connector
00	Air clutch valve module for groups 17 - 20	**X-659**
01	Air clutch valve module for groups 17 - 20	**X-659**
02	Air clutch valve module for groups 17 - 20	**X-659**
03	Air clutch valve module for groups 17 - 20	**X-659**
04	Air clutch valve module for groups 13 - 16	**X-658**
05	Air clutch valve module for groups 13 - 16	**X-658**
06	Air clutch valve module for groups 13 - 16	**X-658**
07	Air clutch valve module for groups 13 - 16	**X-658**
08	Air clutch valve module for groups 9 - 12	**X-657**
09	Air clutch valve module for groups 9 - 12	**X-657**
10	Air clutch valve module for groups 9 - 12	**X-657**
11	Air clutch valve module for groups 9 - 12	**X-657**
12	Air clutch valve module for groups 5 - 8	**X-656**
13	Air clutch valve module for groups 5 - 8	**X-656**
14	Air clutch valve module for groups 5 - 8	**X-656**
15	Air clutch valve module for groups 5 - 8	**X-656**
16	Air clutch valve module for groups 1 - 4	**X-655**
17	Air clutch valve module for groups 1 - 4	**X-655**
18	Air clutch valve module for groups 1 - 4	**X-655**
19	Air clutch valve module for groups 1 - 4	**X-655**

Cycle power.

A. Fault code 21nn4 is logged. Reinstall original device. Go to Step 8.

B. Fault code is not logged. Return unit to field operation.

8. Replace Clutch Control N ECU.

Turn system power OFF.

Remove and replace the Clutch Control N ECU.

Install, program, set implement identification and recalibrate the system.

A. Fault code 21nn4 is logged. Reinstall the original Clutch Control N ECU. Submit a concern through ASIST.

B. Fault code is not logged again. Write the fault code on the failed controller. Return unit to field operation.

Wiring harness - Electrical schematic frame 10 (A.30.A.88-C.20.E.10)
Wiring harness - Electrical schematic frame 10 (A.30.A.88-C.20.E.10)

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A. Fault code 21nn4 is logged. Go to Step 7.

B. Fault code is not logged. Return unit to field operation.

7. Replace device connected to digital output showing fault.

Devices and their connectors associated with a given digital input are listed in the following table.

All connectors refer to the frame harness unless otherwise indicated.

Faulty Output (nn)	Device	Connector
00	<none>	<none>
01	<none>	<none>
02	Tele Lock Rev solenoid	**X-149**
03	Telescope (Tag 14) solenoid	**X-152**
04	Telescope (Tag 10) solenoid	**X-153**
05	Tele Locks (Tag 13) solenoid	**X-141**
06	Tele Locks (Tag 11) solenoid	**X-142**
07	Rotate Lock Rev solenoid	**X-148**
08	Rotate Locks (Tag 8) solenoid	**X-139**
09	Rotate Locks (Tag 6) solenoid	**X-140**
10	Rotate (Tag 9) solenoid	**X-150**
11	Rotate (Tag 5) solenoid	**X-151**
12	Lift solenoid	**X-145**
13	Lower (Tag 4) solenoid	**X-147**
14	Wing solenoid	**X-154**
15	Lower (Tag 2) solenoid	**X-146**
16	LH inner marker solenoid	**X-134**
17	RH inner marker solenoid	**X-133**
18	LH outer marker solenoid	**X-143**
19	RH outer marker solenoid	**X-144**

Cycle power.

A. Fault code 21nn4 is logged. Reinstall original device. Go to Step 8.

B. Fault code is not logged. Return unit to field operation.

8. Replace Frame ECU.

Turn system power OFF.

Remove and replace the Frame ECU.

Install, program, set implement identification and recalibrate the system.

A. Fault code 21nn4 is logged. Reinstall the original Frame ECU. Submit a concern through ASIST.

B. Fault code is not logged again. Write the fault code on the failed controller. Return unit to field operation.

Wiring harness - Electrical schematic frame 05 (A.30.A.88 - C.20.E.05)
Wiring harness - Electrical schematic frame 06 (A.30.A.88 - C.20.E.06)
Wiring harness - Electrical schematic frame 07 (A.30.A.88 - C.20.E.07)
Wiring harness - Electrical schematic frame 09 (A.30.A.88 - C.20.E.09)
Wiring harness - Electrical schematic frame 10 (A.30.A.88 - C.20.E.10)
Wiring harness - Electrical schematic frame 11 (A.30.A.88 - C.20.E.11)
Wiring harness - Electrical schematic frame 12 (A.30.A.88 - C.20.E.12)
Wiring harness Air Clutch - Electrical schematic frame 01 (A.30.A.88.70-C.20.E.01)
Wiring harness - Electrical schematic frame 05 (A.30.A.88 - C.20.E.05)
Wiring harness - Electrical schematic frame 06 (A.30.A.88 - C.20.E.06)
Wiring harness - Electrical schematic frame 07 (A.30.A.88 - C.20.E.07)
Wiring harness - Electrical schematic frame 09 (A.30.A.88 - C.20.E.09)
Wiring harness - Electrical schematic frame 10 (A.30.A.88 - C.20.E.10)

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Farming system Wiring harness - Electrical schematic frame 04 Steiger Tractor - Splice Table

SPLICES							
Splice	**Frame**		**SP-CB01**	**11**		**SP-DI01**	**9**
SP-CH03	5		SP-CB02	11		SP-DI02	9
SP-CH04	5		SP-CB03	11			
SP-CH05	5		SP-CB04	10			
			SP-CB05	10			
			SP-CB06	10			
			SP-CB07	10			
			SP-CB08	10			
			SP-CB11	7			
			SP-CB12	7			
			SP-CB13	7			
			SP-CB18	6			
			SP-CB19	6			
			SP-CB20	6			
			SP-CB21	6			
			SP-CB22	6			
			SP-CB23	6			
			SP-CB24	8			

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Carrying wheel - Remove - Pivot platform

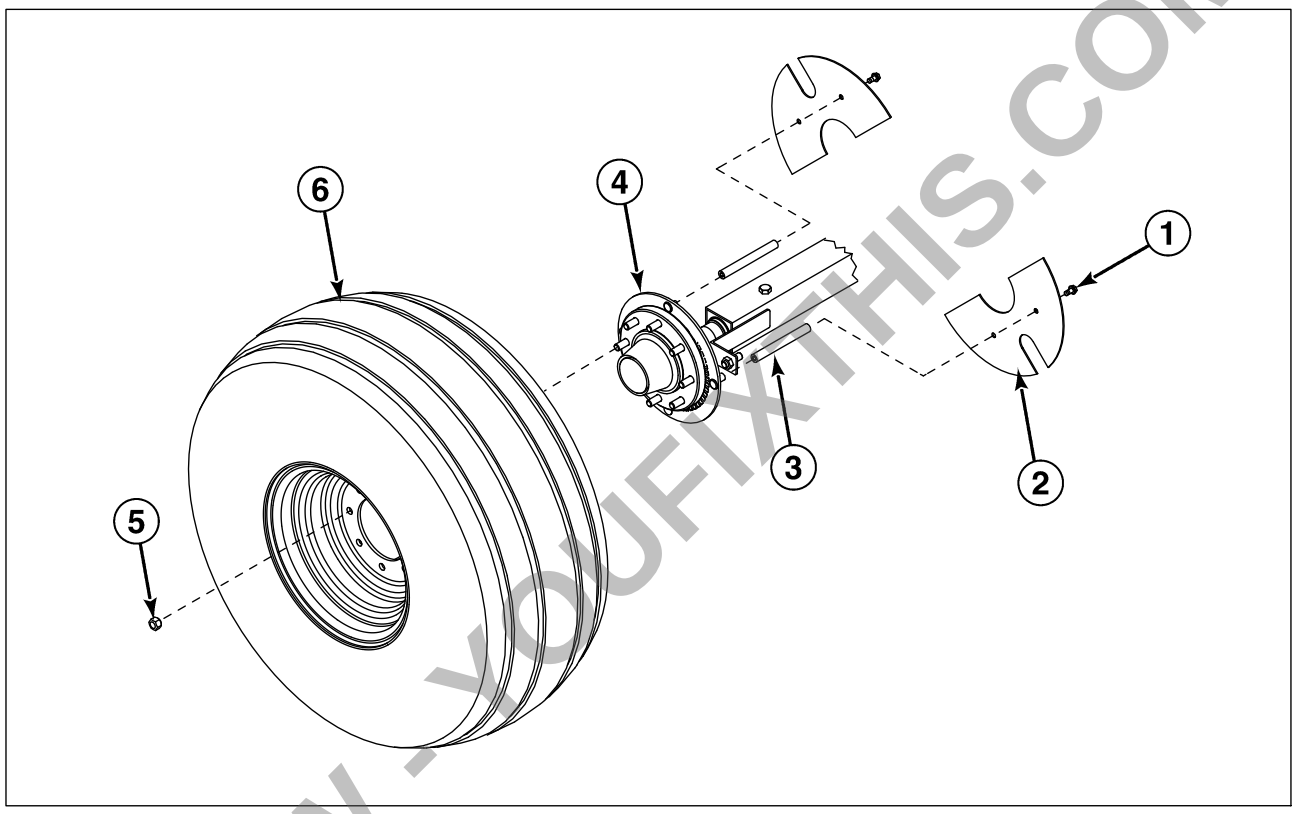
Locate the planter on a hard and level surface.

Pivot the planter to the road transport position.

Put the tractor remote lever for the lift and pivot valve (red color coded couplers) in the Neutral position to relieve pressure on the hydraulic circuit.

Turn the tractor OFF and remove the key from the keyswitch.

NOTE: *For additional stability, keep the planter hitched to the tractor while servicing the wheels and bearings.*



rh04n163 1

1. Remove the four bolts **(1)** securing the wheel cover and remove the cover halves **(2)** from the spacers **(3)**.
2. Remove the four spacers **(3)** from the studs on the axel assembly **(4)**.
3. Loosen the wheel mounting nuts **(5)** but DO NOT remove the nuts.
4. While supporting the planter, install jack stands under the frame to support the planter so the wheel is not touching the ground.

NOTE: *Use appropriate lift equipment to raise the wheel off the ground.*

5. Remove the wheel mounting nuts **(5)** and remove the wheel **(6)** from the axel assembly **(4)**.

Next operation:
Axle - Disassemble - Carrying wheel (D.13.B)

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TRAVELLING Lifting - Static description

Symptom: Planter lift cylinders do not raise or lower.

Possible Cause	Action
Solenoid actuated valves , **SV_2 SV_3** or **SV_4** are plugged or defective.	Inspect the poppet valve and test operation of the solenoid coil. See **Control valve 2 Port, 2 Position poppet - Disassemble (F.10.B)**.
Pilot operated check valves at ports LR and LR1 (planters prior to 2005) on the lift and pivot valve are blocked.	Remove, inspect and clean valves.
Lift circuit line is blocked.	Check line to port L1 on the lift and pivot valve for the left hand lift cylinder; check line to port L on the lift and pivot valve for the right hand cylinder.
Lower circuit line is blocked.	Check line to port LR1 on the lift and pivot valve for the left hand lift cylinder; check line to port LR on the lift and pivot valve for the right hand cylinder.
Cylinder seals or cylinder is defective.	Reseal or replace cylinder.

Symptom: Planter does not stop at the Limited Raise height setting.

Possible Cause	Action
Solenoid actuated valve **SV_3** is open, shorted or defective.	Test operation of the solenoid coil and inspect the poppet valve.
Limited Raise height set lower than the Stop Plant height.	Check the Frame calibration screen on the Display and reset the height for the Limited Raise position.

Symptom: Toolbar cylinder(s) leaks down from the raised position.

Possible Cause	Action
Counterbalance valve(s) on the left or right lift cylinder is defective or maladjusted.	See **Control valve - Adjust (F.10.B)**

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TRAVELLING Extending - Static description

Symptom: Tongue latches do not unlatch to extend the tongue in Fold mode and/or to retract the tongue in Unfold mode.

Possible Cause	Action
Solenoid actuated valves **SV_10**, **SV_12** or **SV_13** are plugged or defective.	Inspect the poppet valve and test operation of the solenoid coil. For **SV_10**, See **Control valve 2 Port, 2 Position poppet - Disassemble (F.10.G)**. For **SV_12**, see **Control valve 3 Port, 2 Position spool - Disassemble (F.10.G)**. For **SV_13**, see **Control valve 2 Port, 2 Position poppet - Disassemble (F.10.G)**.
Latching circuit line is blocked.	Check line to port HL on the lift and pivot valve.
Cylinder seals or cylinder is defective.	Reseal or replace cylinder.

Symptom: Tongue latches do not latch with tongue extended in Fold mode and/or with tongue retracted in Unfold mode.

Possible Cause	Action
Solenoid actuated valves **SV_11**, **SV_12** or **SV_14** are plugged or defective.	Inspect the poppet valve and test operation of the solenoid coil. For **SV_11**, see **Control valve 2 Port, 2 Position poppet - Disassemble (F.10.G)**. For **SV_12**, see **Control valve 3 Port, 2 Position spool - Disassemble (F.10.G)**. For **SV_14** see **Control valve 2 Port, 2 Position poppet - Disassemble (F.10.G)**.
Latching circuit line is blocked.	Check line to port HL on the lift and pivot valve.
Cylinder seals or cylinder is defective.	Reseal or replace cylinder.

Symptom: Tongue does not extend/retract in Fold and/or Unfold mode.

Possible Cause	Action
Solenoid actuated valves **SV_10** or **SV_14** are plugged or defective.	Inspect the poppet valve and test operation of the solenoid coil. See **Control valve 2 Port, 2 Position poppet - Disassemble (F.10.G)**.
Extend circuit line is blocked.	Check line to port H on the lift and pivot valve for the rear cylinder; check line to port H1 on the lift and pivot valve for the front cylinder.
Retract circuit line is blocked.	Check line to port HR on the lift and pivot valve for the rear cylinder; check line to port HR1 on the lift and pivot valve for the front cylinder.
Cylinder seals or cylinder is defective.	Reseal or replace cylinder.

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Planting tool - Dynamic description - Theory of operation - Row unit

The row unit is designed to open the soil, plant the seed at a specific location, and cover the seed with the same moist soil that waas removed. The row unit is equipped with several key components that promote consistent seed placement and depth, even in rough terrain.

The components of the row unit are as follows:

- Opener disks
- Gauge wheels
- Furrow firming point
- Seed shoe
- Advanced Seed Meter (ASM)
- Seed tube and sensor
- Closing disks
- Press wheels

Opener disks

The opener disk is designed to cut through tough field residue and hard soil conditions to create a trenched opening. The disks are a **14 in**, **11 °**, staggered configuration that allows the disks to cut a very narrow seed trench. Having the disks staggered creates a scissor effect which helps to cut into the soil and residue in no-till applications.

The row unit depth adjustment controls how deep the openers go into the soil. The row unit is held to the ground by an independent, fully adjustable, row unit down pressure system with parallel linkage that reduces the need for expensive coulters.

Gauge wheels

The gauge wheels collect the moist soil for replacement over the seed. The dual equalizing **16 in** gauge wheels maintain consistent depth control even in rough terrain. The wheels have a pulled, not pushed, configuration that improves row unit stability and reduces bounce in rough terrain. All of the row units can be zero indexed ensuring that the row units are consistently setup.

Furrow firming point

The purpose of the furrow firming point is to knock down the “W” tip that is formed on the bottom of the trench by the openers while making a seed trench. This process creates a “V” shape and allows the seed to have even depth and placement. The seed tends to fall more consistently into the trench and has a reduced possibility of seed roll. The firming point is depth adjustable and is the center line for the row unit.

Seed shoe

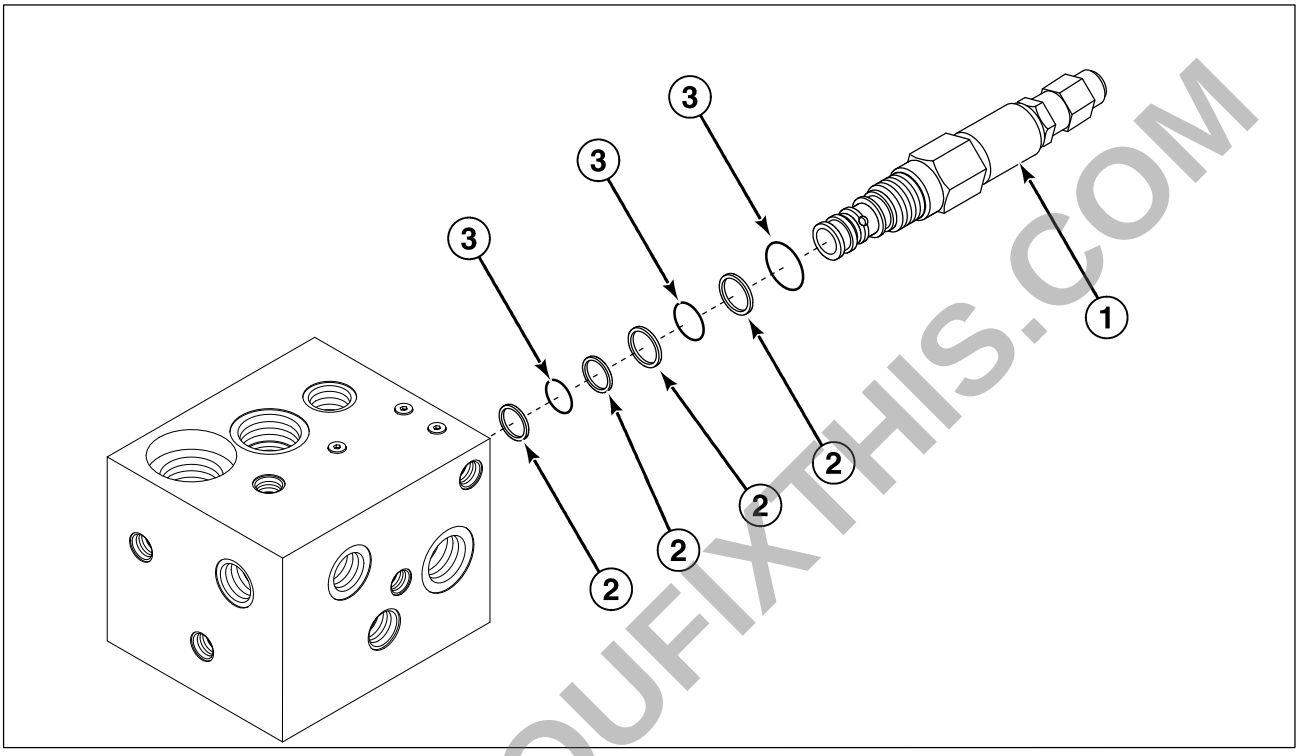
The job of the seed shoe is to help firm the sides of the seed trench and provide protection for the seed as it is entering the trench. The seed shoe also have an in-furrow fertilizer application attachment available for installation.

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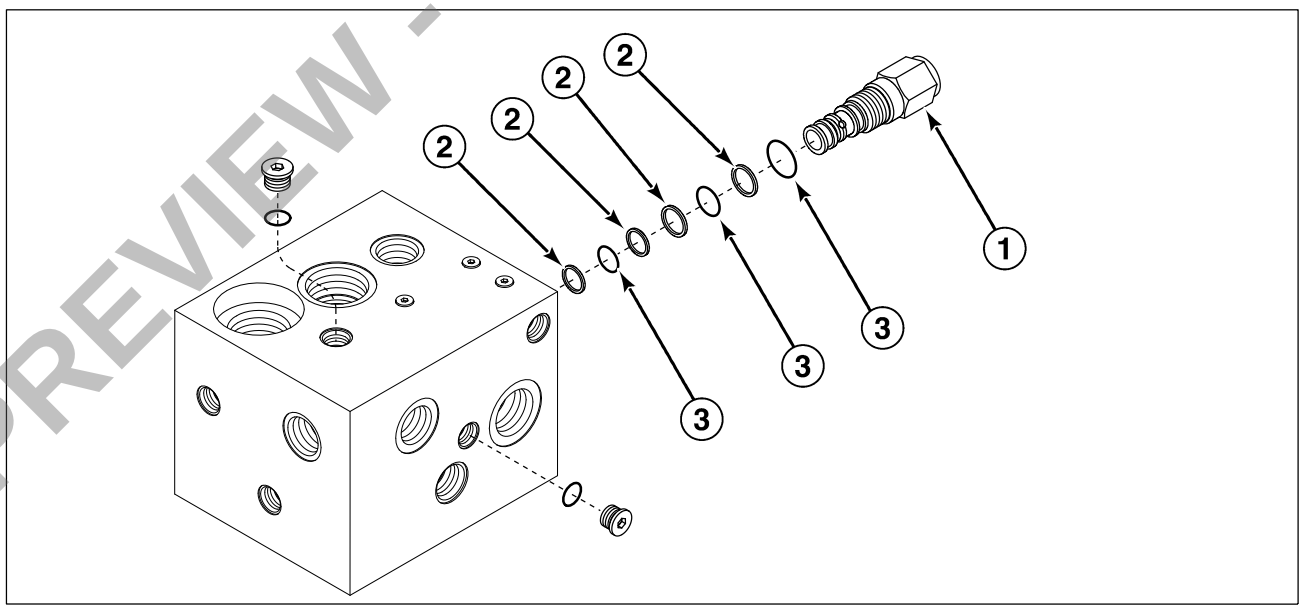
Control valve Unloading - Disassemble

NOTE: *This port is equipped with a plug when the valve block is tractor remote driven or the unloading valve when the valve block is PTO pump system driven. Both require disassembly, inspection and reassembly when decontaminating the valve block or installing new seals to stop leaking.*



rh04m428 1

PTO Pump Driven Valve Blocks Only – Unloading Valve



rh04m421 2

Tractor Remote Driven Valve Blocks Only – Port Plug

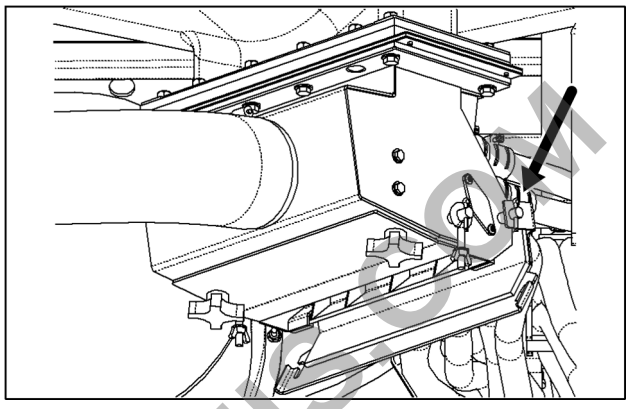
1. Clean the area around the unloading valve or the plug on the valve block to avoid introducing foreign material into the block.

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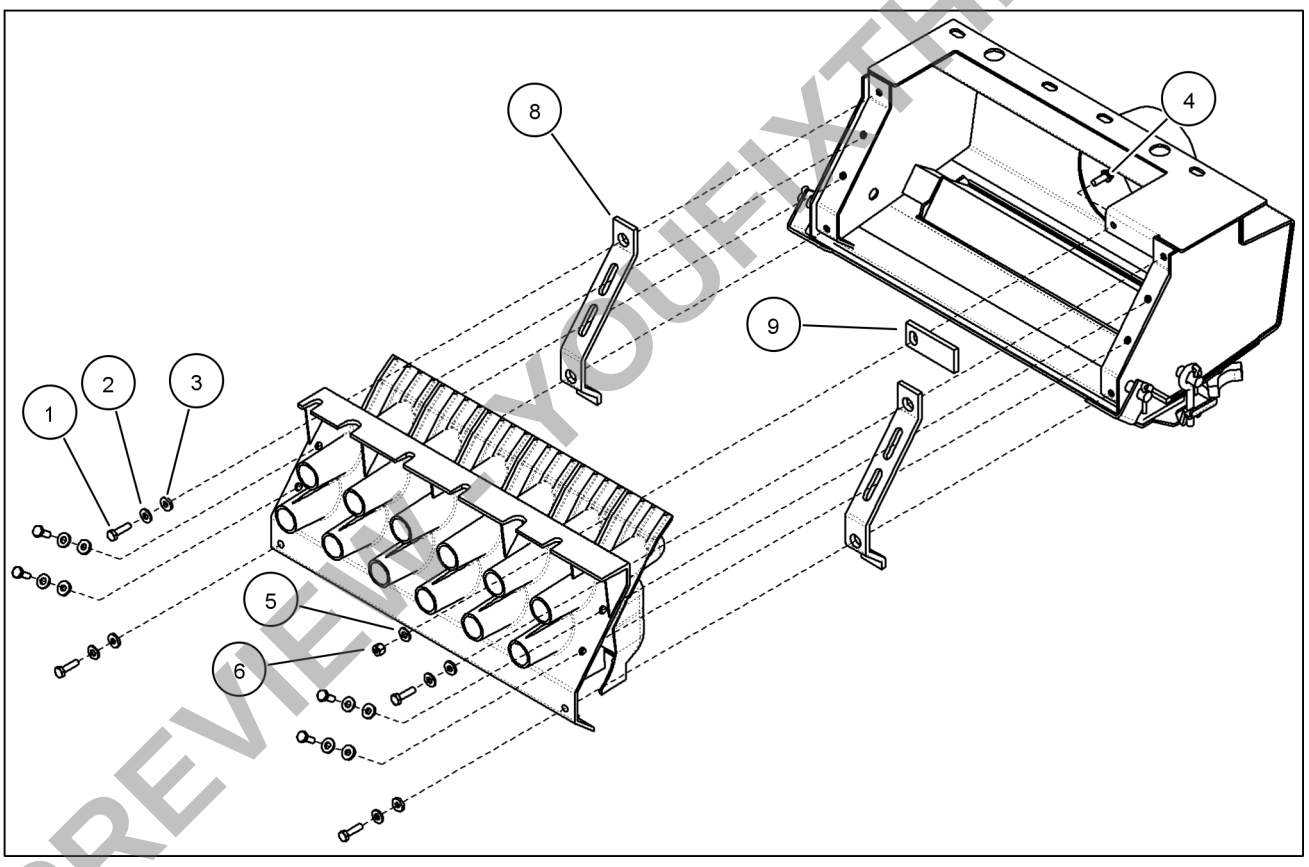
Collector - Disassemble - ASN Y9S007000

Prior operation:
Collector - Remove (L.10.E)

1. Open the seed door and remove by removing the cotter pins from each side of the door.



408767C 1



410543C 2

2. Remove the eight bolts **(1)**, washers **(2)** and rubber washers **(3)** securing the manifold assembly to the seed box. Remove the final bolt **(5)**, washer **(6)** and nut **(7)** and remove the manifold assembly.

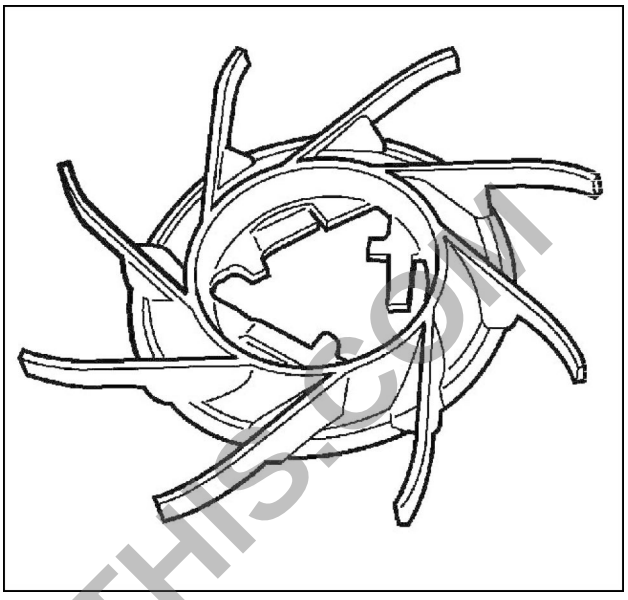
NOTE: *Once the inductor assembly is removed, the front gaskets **(8)** and rear gasket **(9)** are unattached.*

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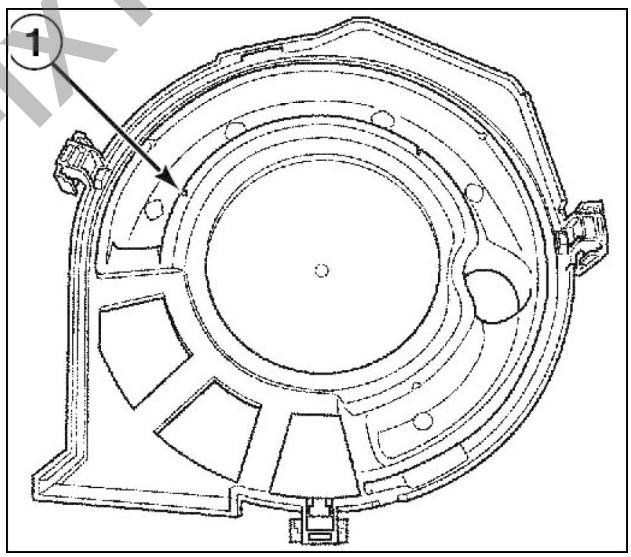
Seed meter - Visual inspection

1. Inspect agitator for wear, breakage, cracks, chipping, broken blade(s) or distortion. Replace if any of these conditions are present.



rh04g210 1

2. Check wear surfaces under the cover for wear and deformation. replace the cover if ANY of the triangular wear point indicators **(1)** are no longer visible because of wear. To check cover for deformation, place a flat seed disc on cover and check for gaps. Replace cover if gaps exist.



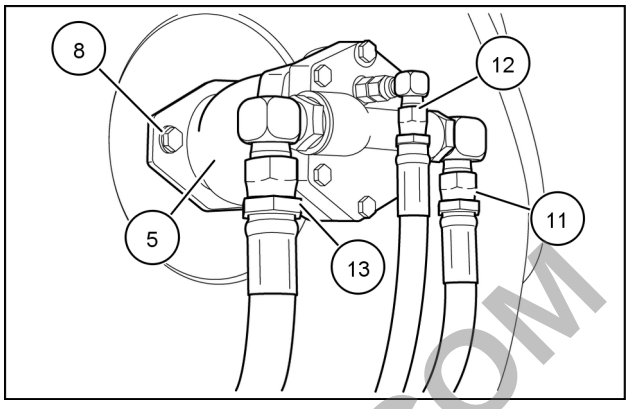
rh04g226 2

3. When replacing the meter cover on a row unit equipped with a vacuum sensor, a hole must be drilled and tapped for either the vacuum line connector or the vacuum sensor connector. For row units with the vacuum sensor, drill a **7/16 in** diameter hole at the location shown **(1)** and use a **1/4 in** -18NPT tap to thread the hole. For row units with the vacuum fitting, drill a **5/16 in** diameter hole at the location shown **(1)** and use a **1/8 in** -27 NPT tap to thread the hole.

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1. Position and support the hydraulic motor **(5)** with the case drain port **(12)** at the top on the fan housing **(9)**. Install washer, bolt, and nut **(8)** to secure the motor on both sides. Torque the nuts to **61 - 68 Nm** (**45 - 50 lb ft**).

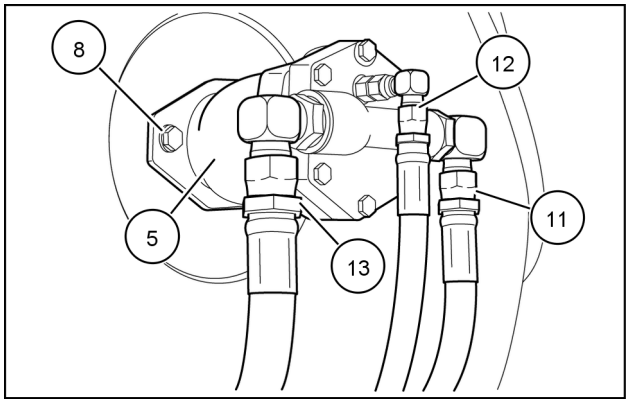


RH04N217 2

2. Place the key **(11)** in the keyway on the motor shaft **(12)**. Coat the shaft and key with Loctite 767 anti-seize compound.
3. Position the fan impeller **(4)** on the shaft, aligning the keyway with the shaft key. Install nut **(3)** and washer and tighten nut to a torque of **52 - 57 Nm** (**38 - 42 lb ft**).

NOTICE: *Do not overtighten nut. Fan impeller may be damaged.*

4. Apply a bead of silicon between points **(a)** and **(b)** along the perimeter of the fan housing before installing the front cover. If required, also apply a bead of silicon just inside the bolt circle for the manifold **(10)** at **(c)**.
5. Position the front cover **(2)** and secure using bolts **(1)** and washers.
6. Reinstall the adapter fittings with new O-rings and the hoses. Torque the hoses as follows:
Supply hose **(5)** – **47 - 54 Nm** (**35 - 40 lb ft**)
Return hose **(4)** – **104 - 111 Nm** (**77 - 82 lb ft**)
Case drain hose **(3)** – **20 - 27 Nm** (**15 - 20 lb ft**).



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7. Test operation of the motor and fan.

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Cylinder Inner cylinder - Remove

Locate the planter on a hard and level surface.

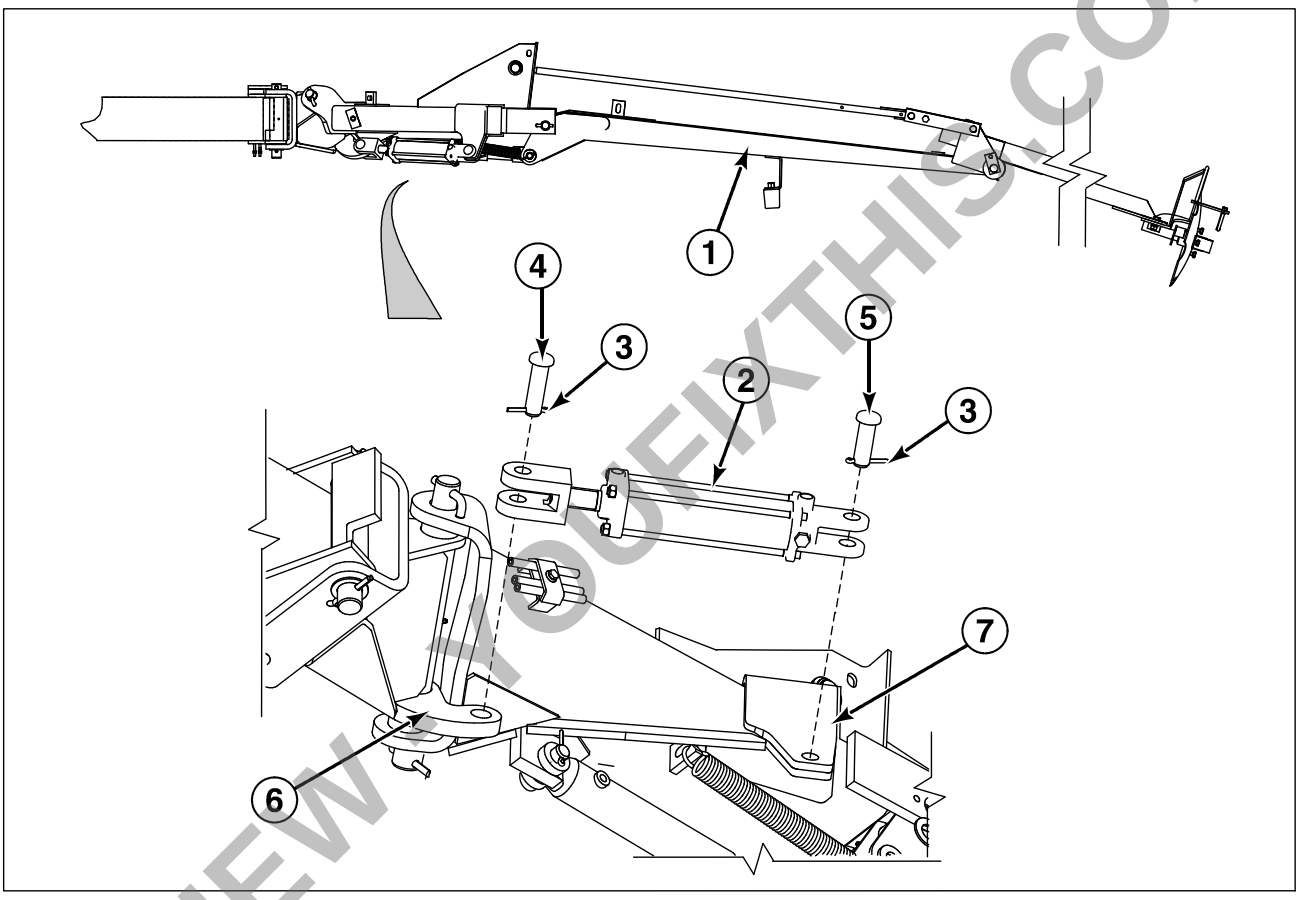
Pivot the planter to planting position.

Lower the planter to the ground.

Unfold the markers to the ground.

Put the tractor remote lever for the lift and pivot valve (red color coded couplers) in the Neutral position to relieve pressure on the hydraulic circuit.

Turn the tractor OFF and remove the key from the keyswitch.



rh04k113 1

Marker Cylinder

1. Place a jackstand or blocks under the marker middle arm **(1)**, near the outer end.

NOTE: *Use appropriate blocking to support the marker arms during cylinder removal.*

2. Identify and tag the two hoses attached to the fittings on the marker cylinder **(2)**. Disconnect the hoses from the fittings. Remove and retain the hose fittings (not shown) for use on the replacement cylinder. Plug or cap the hoses and cylinder ports.
3. Remove the cotter pins **(3)** from the headed pins **(4)** **(5)**.
4. While supporting the rod end of the cylinder, remove the headed pin **(4)** from the anchor on the wing pivot **(6)** and the rod clevis.

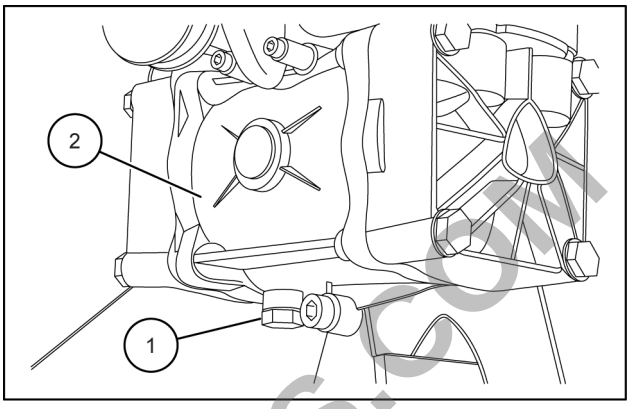
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Pump - Drain fluid

Flush the pump with clean water before servicing.

1. Drain the oil from the pump by removing the plug **(1)** at the bottom of the pump body **(2)**.

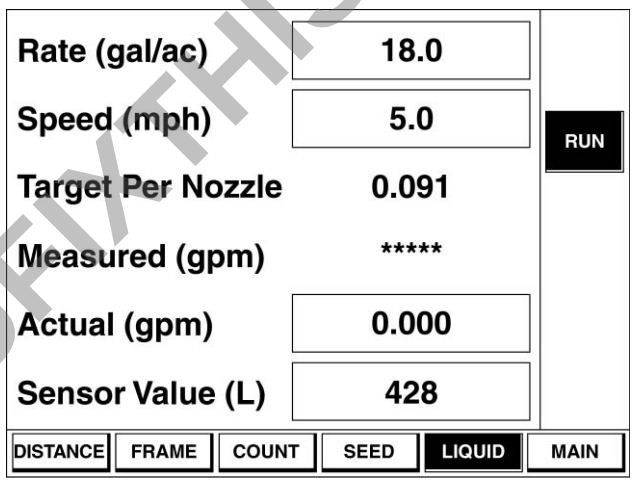
NOTE: *The shaft must be rotated to completely drain the oil. Use the liquid fertilizer calibration function to drain the oil completely without disassembling the pump drive.*



SAIL11PLA0078AB 1

2. From the MAIN menu, press CAL followed by LIQUID to access the fertilizer calibration screen.

NOTE: *Do NOT change any values on this screen.*



rh04n021 2

3. Press the RUN button to start the calibration procedure.
4. Locate the calibration tether on the planter.
5. Remove the cap for the connector for the tether harness. Attach the calibration tether to the tether plug . Press and hold the button on the tether harness. The pump does not immediately rotate. The first time the button is pressed, about 12 - 15 seconds will pass before the pump starts rotating. Thereafter, the time is reduced to about five seconds.

NOTE: *With changes to Display software (7.x), the button can be released and pressed again as often as needed to completely drain the pump; the time limitation related to a distance traveled has been removed and there is no danger of changing the current calibration values unless the CAL button is intentionally pressed.*

NOTICE: *Release the button when the oil is drained. Do NOT continue to rotate the pump once the oil is drained or damaged to the pump may occur.*

6. Return the calibration tether to its storage location and reinstall the cap on the tether harness.
7. Turn the tractor OFF and remove the key from the keyswitch.

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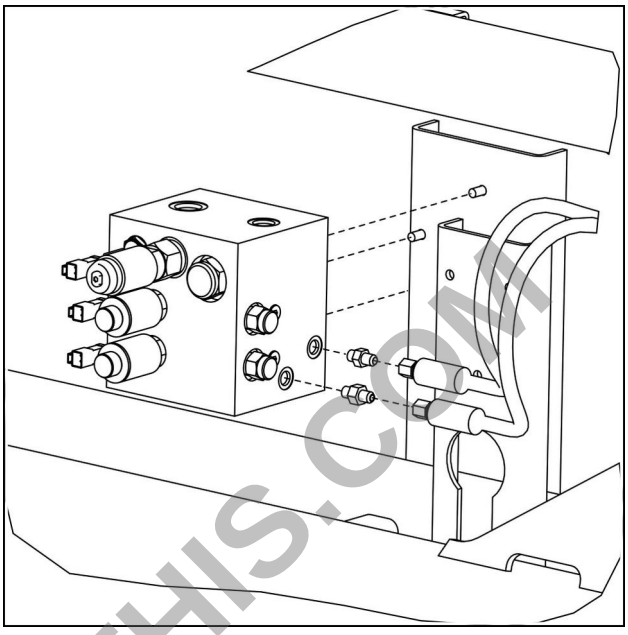
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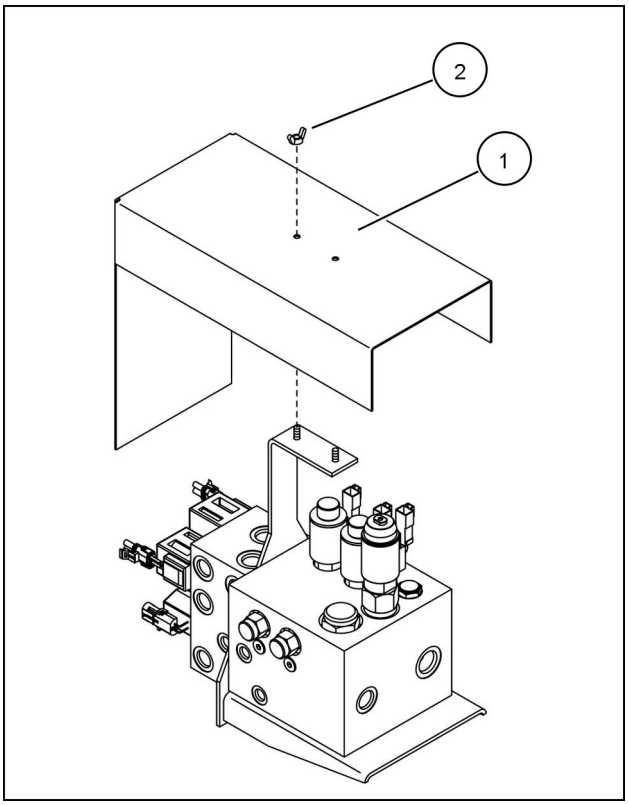
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4. Reinstall the adapters on the right hand side of valve block with new O-rings.



RCIL06PTR068BAA 2

5. Reinstall the hoses, matching the tags to the valve block ports.
6. Reinstall the Toolbar harness connectors to the correct solenoid valves.
7. Reinstall the cover **(1)** with the two wings nuts **(2)** removed earlier.

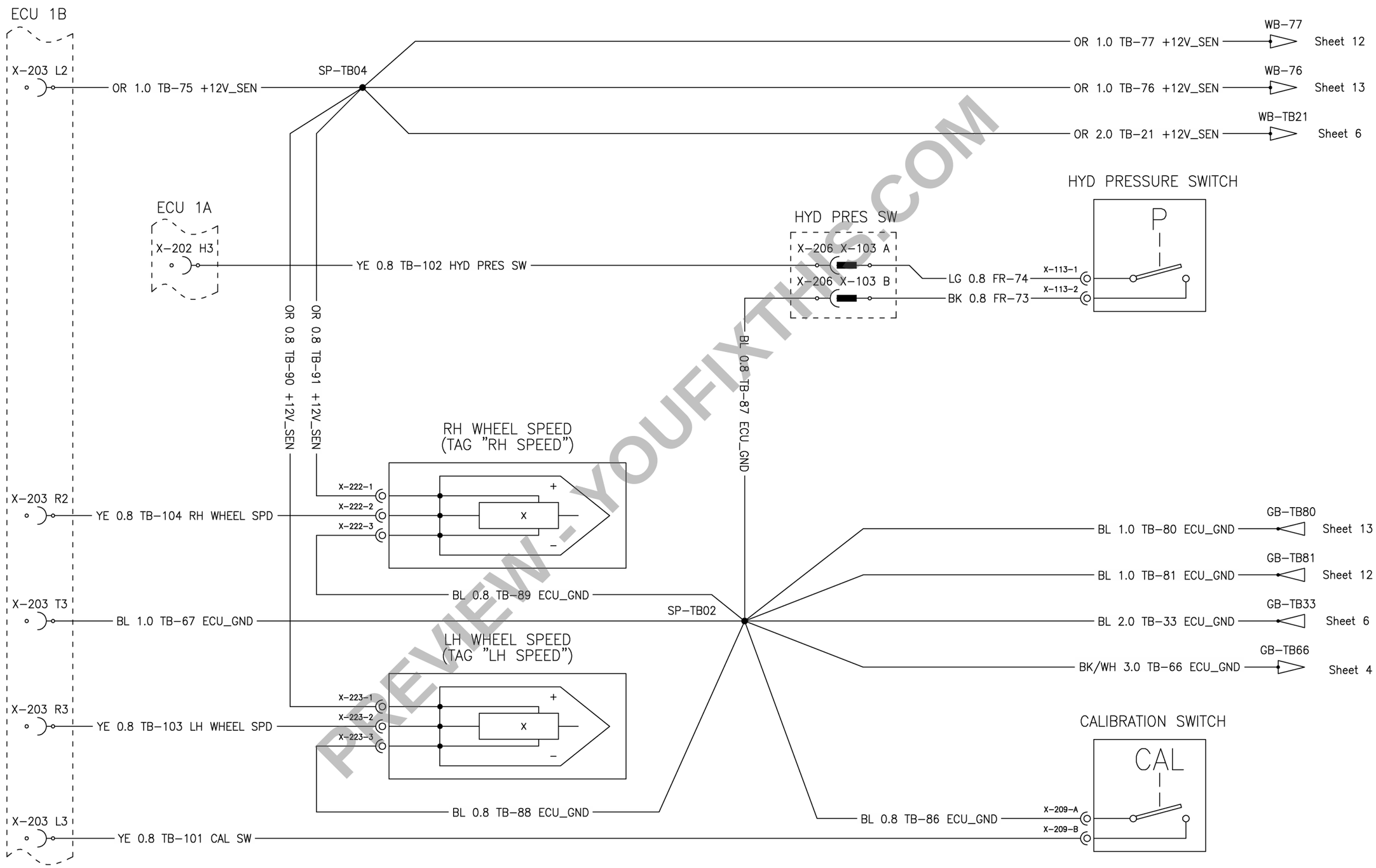


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WHEEL SPEED / CAL & PRES SWITCHES



SHEET 8

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Faulty Input (nn)	Connector 1	Contact 1	Connector 2	Contact 2
42	**X-202** (2 section) **X-202** (4 section)	D2	**X-239** (Before 2012 with PDP option) **X-239** (2012 & after)	G
	X-630 (PDP option only)	G	**X-631** (PDP option only)	C
43	**X-202** (2 section) **X-202** (4 section)	C3	**X-239** (Before 2012 with PDP option) **X-239** (2012 & after)	F
	X-630 (PDP option only)	F	**X-632** (PDP option only)	C

Cycle power.

A. Fault code 20nn3 is logged. Go to Step 4

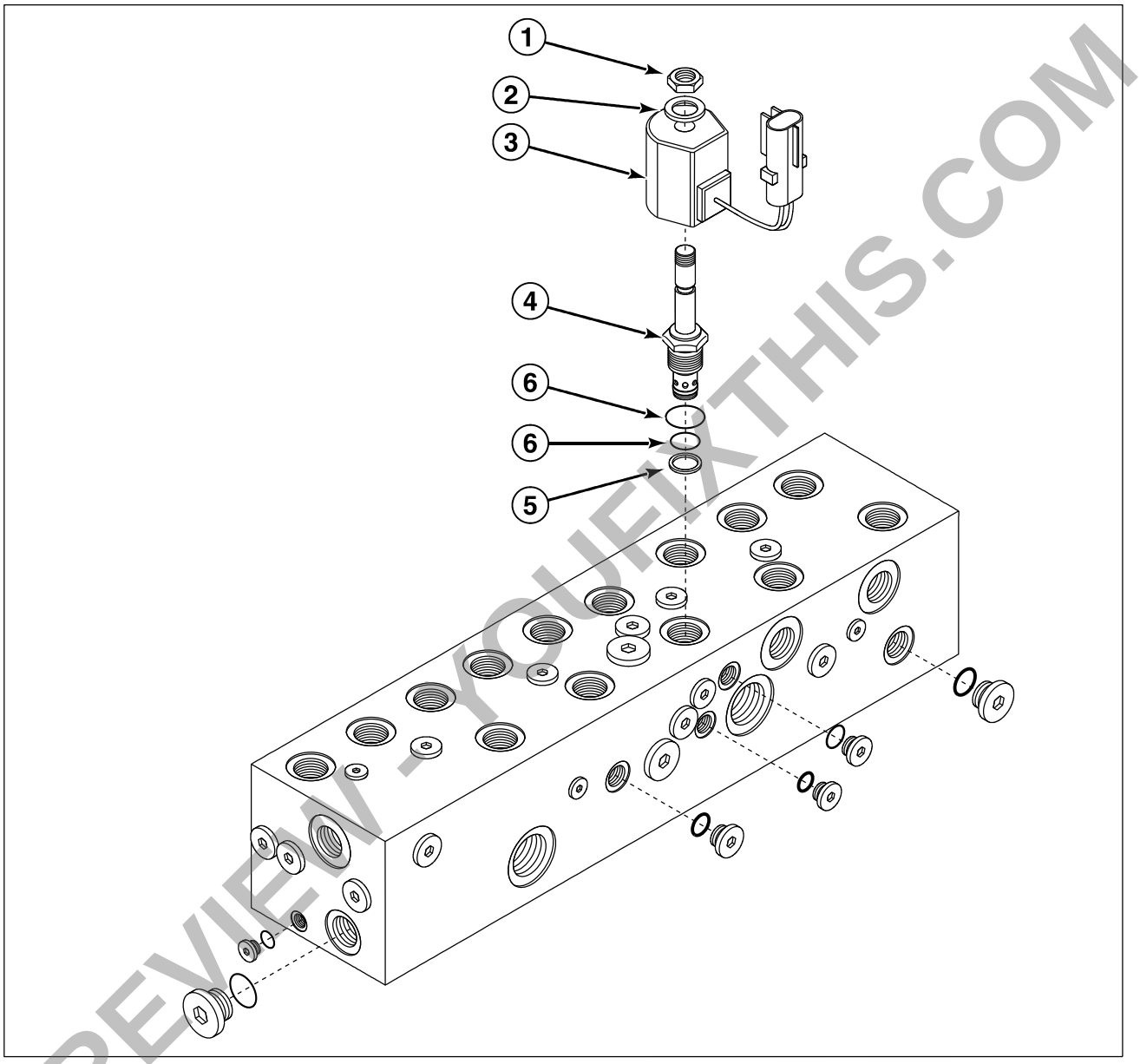
B. Fault code is not logged. Return unit to field operation.

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Control valve 2 Port, 2 Position poppet - Assemble - Raise solenoid valve 4

Prior operation:
Control valve 2 Port, 2 Position poppet - Visual inspection (F.10.B)



rh04m449 1

Raise/Lower Solenoid Valve (Tag 4)

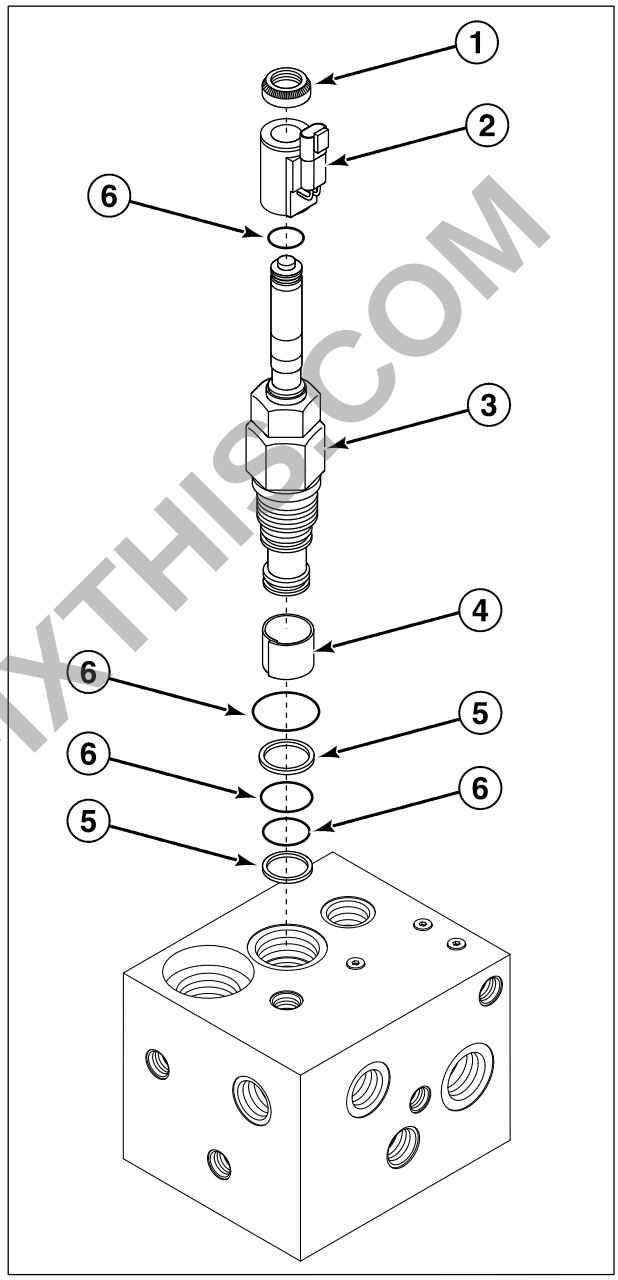
1. Lubricate the poppet **(4)** with clean **CASE IH AKCELA HY-TRAN® ULTRA™ HYDRAULIC TRANSMISSION OIL** hydraulic fluid.
2. Install new O-rings **(6)** and a backup washer **(5)** on the poppet.
3. Install the valve assembly in the block. Torque the valve to **47 - 54 Nm** (**35 - 40 lb ft**).

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Control valve Flow control - Disassemble

1. Clean the area around the bulk fill l flow control valve on the valve block to avoid introducing foreign material into the block.



rh04m422 1

2. Disconnect the harness connector to the solenoid coil **(2)**.
3. Remove the nut **(1)** and remove the solenoid coil **(2)** from the cartridge **(3)**.
4. Remove the cartridge **(3)** and screen **(4)** from the valve block, and discard the O-rings **(6)** and backup washers **(5)**.

Next operation:
Control valve Flow control - Electrical test (L.10.D)

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