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Early Riser® 1235
Mounted Stacker Planter

SERVICE MANUAL

Part number 47834650
1st edition English
January 2015

CASE IH AGRICULTURE

Contents

INTRODUCTION

Hydraulic systems 35

[35.000] Hydraulic systems 35.1

[35.359] Main control valve 35.2

[35.944] Frame positioning folding 35.3

[35.946] Frame positioning lifting 35.4

[35.745] Vacuum system hydraulic circuit 35.5

[35.746] Marking system hydraulic circuit 35.6

[35.748] Metering system hydraulic circuit 35.7

Pneumatic system 36

[36.100] Pneumatic system 36.1

[36.200] Pneumatic operated components 36.2

Wheels 44

[44.530] Carrying and transport wheels 44.1

[44.532] Lift assist wheels 44.2

Electrical systems 55

[55.000] Electrical system 55.1

[55.100] Harnesses and connectors 55.2

[55.516] Seeding control system 55.3

[55.785] Precision farming system 55.4

[55.DTC] FAULT CODES 55.5

Metering system 61

[61.901] Metering mechanical drive 61.1

[61.904] Product metering 61.2

Chemical applicators 63

[63.110] Granular chemical system 63.1

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Safety rules

Personal safety



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

Throughout this manual you will find the signal words DANGER, WARNING, and CAUTION followed by special instructions. These precautions are intended for the personal safety of you and those working with you.

Read and understand all the safety messages in this manual before you operate or service the machine.

DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.

WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

FAILURE TO FOLLOW DANGER, WARNING, AND CAUTION MESSAGES COULD RESULT IN DEATH OR SERIOUS INJURY.

Machine safety

NOTICE: *Notice indicates a situation that, if not avoided, could result in machine or property damage.*

Throughout this manual you will find the signal word Notice followed by special instructions to prevent machine or property damage. The word Notice is used to address practices not related to personal safety.

Information

NOTE: *Note indicates additional information that clarifies steps, procedures, or other information in this manual.*

Throughout this manual you will find the word Note followed by additional information about a step, procedure, or other information in the manual. The word Note is not intended to address personal safety or property damage.

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General specification

8 Row planter

Planter type: 1235 Mounted Stacker planter

- Number of rows: 8
- Row spacing:
  - 8 Row Wide - **965 mm** (**38 in**) and **1016 mm** (**40 in**)

Lift system

- Full mounted: 3-point hitch, CAT III Wide and CAT IV Narrow
- Semi-mounted: Lift assist wheels (optional equipment)

Drive wheels

- Taper roller bearing hubs: 7.60 x 15 Goodyear Sure Grip Traction, 10 ply tire with approximate rolling circumference of **2337 mm** (**92 in**)
- Gauge wheels: **114 mm** (**4.5 in**) x **406 mm** (**16 in**) or **70 mm** (**2.75 in**) x **406 mm** (**16 in**) semi-pneumatic rubber tires.
- Tire inflation pressure: **441 kPa** (**64 psi**)
- Wheel lug bolt torque: **90 - 102 N·m** (**66 - 75 lb ft**)

Transport width with markers

- 8 Row Wide, **965 mm** (**38 in**) Row spacing: **5.33 m** (**17 ft 6 in**)
- 8 Row Wide, **1016 mm** (**40 in**) Row spacing: **5.33 m** (**17 ft 6 in**)

Transport height with markers

- 8 Row Wide, **965 mm** (**38 in**) or **1016 mm** (**40 in**) Row spacing: **3.40 m** (**11 ft 2 in**)

Planter wheel tread (drive wheel center to drive wheel center)

- 8 Row Wide, **965 mm** (**38 in**) Row spacing: **1930 mm** (**76 in**)
- 8 Row Wide, **1016 mm** (**40 in**) Row spacing: **2032 mm** (**80 in**)

Row units: Parallel linkage, individually mounted for maximum flexibility to follow ground contour.
Row unit empty weight (without hoppers): **120 kg** (**265 lb**)

Seed openers: Staggered **356 mm** (**14 in**) diameter double disks with precision bearings with internal and external scrapers.

Covering disks: Adjustable **203 mm** (**8 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 - 102 mm** (**0.0 - 4 in**).

On-row seed hopper and lid: Molded plastic with tethered strap

- Hopper capacity: **0.067 m³** (**1.9 Bu**)
- Hopper/meter assembly weight (empty): **9.1 kg** (**20 lb**)
- Hopper/meter assembly weight (full): **61 kg** (**134 lb**)

Granular chemical hopper:

- Hopper weight (empty): **5.4 kg** (**12 lb**)
- Hopper weight (full): **37 kg** (**82 lb**)

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Torque - Hydraulic tubes and fittings

NOTICE: *The torque values given are for* ***DRY TORQUES****.*

Standard torque data for hydraulic tubes and fittings

Hoses / Tubes to Steel Fittings 37° Flared Fittings							
Size	Tubing OD		Thread Size	Nm		LB FT	
	Inches	mm		Min	Max	Min	Max
2	1/8	3.2	5/16-24	10	11	7	8
3	3/16	4.8	3/8-24	13	14	10	11
4	1/4	6.4	7/16-20	18	19	13	14
5	5/16	7.9	1/2-20	23	25	17	18
6	3/8	9.5	9/16-18	29	34	22	24
8	1/2	12.7	3/4-18	59	64	43	47
10	5/8	15.9	7/8-14	92	102	68	76
12	3/4	19.1	1-1/6-12	128	143	95	106
14	7/8	22.2	1-3/16-12	152	169	113	124
16	1	25.4	1-5/16-12	176	185	130	136
20	1-1/4	31.8	1-5/8-12	206	217	152	160
24	1-1/2	38.1	1-7/8-12	258	270	190	200
32	2	50.8	2-1/2-12	398	420	294	310

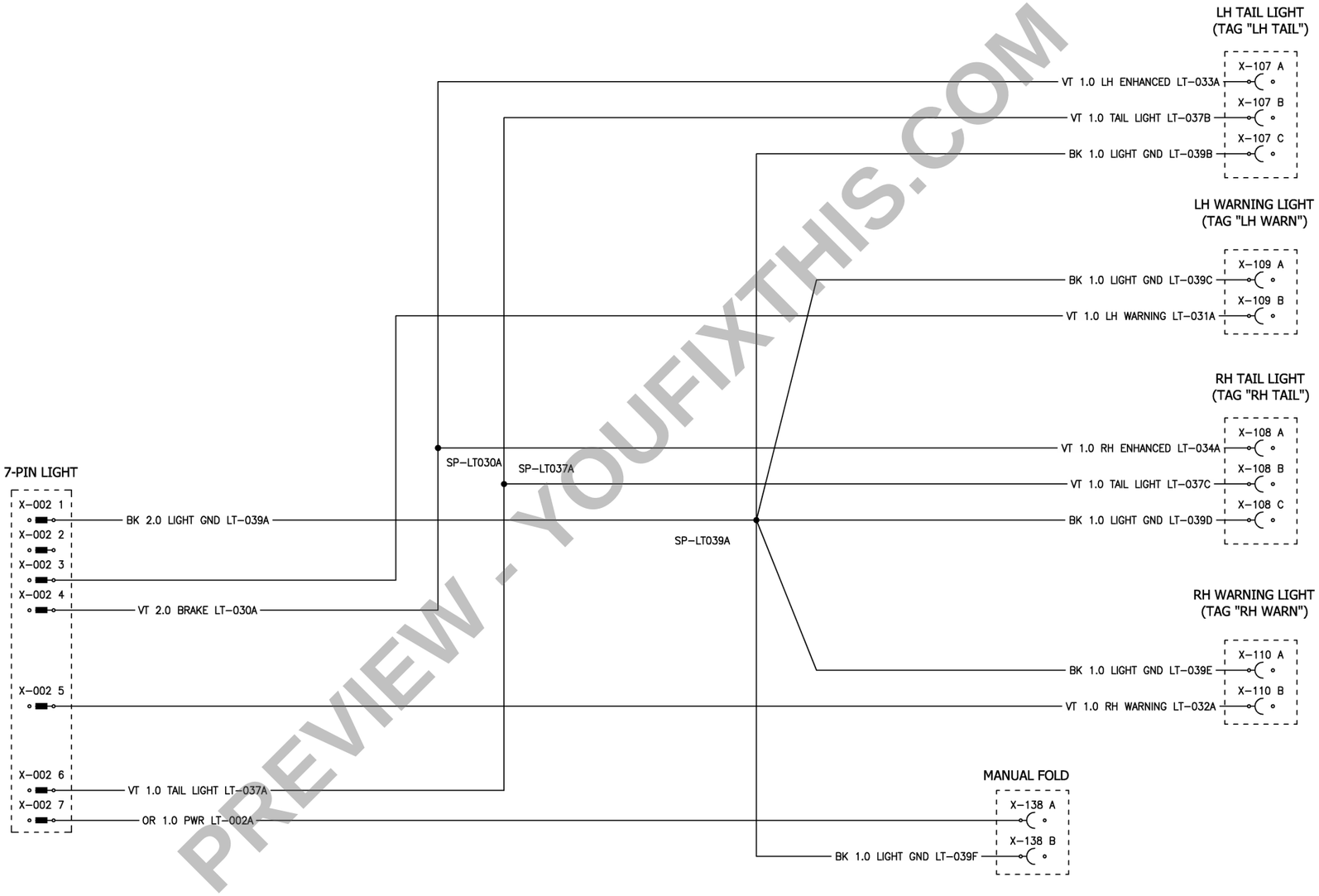
Fittings into steel / forged cylinder spuds, steel bodies, cast iron bodies O-ring Boss							
Size	Tubing OD		Thread Size	Nm		LB FT	
	Inches	mm		Min	Max	Min	Max
4	1/4	6.4	7/16-20	18	20	13	15
5	5/16	7.9	1/2-20	23	26	17	19
6	3/8	9.5	9/16-18	29	33	22	24
8	1/2	12.7	3/4-18	49	53	40	43
10	5/8	15.9	7/8-14	59	64	43	48
12	3/4	19.1	1-1/6-12	93	102	68	75
14	7/8	22.2	1-3/16-12	122	134	90	99
16	1	25.4	1-5/16-12	151	166	112	123
20	1-1/4	31.8	1-5/8-12	198	218	146	161
24	1-1/2	38.1	1-7/8-12	209	231	154	170

Fittings into aluminum bodies O-ring Boss							
Size	Tubing OD		Thread Size	Nm		LB FT	
	Inches	mm		Min	Max	Min	Max
4	1/4	6.4	7/16-20	9	15	7	11
6	3/8	9.5	9/16-18	23	34	17	25
8	1/2	12.7	3/4-18	34	54	25	40
10	5/8	15.9	7/8-14	41	75	30	55
12	3/4	19.1	1-1/6-12	75	108	55	80
14	7/8	22.2	1-3/16-12	108	129	80	95
16	1	25.4	1-5/16-12	115	163	85	120
20	1-1/4	31.8	1-5/8-12	163	224	120	165
24	1-1/2	38.1	1-7/8-12	183	258	135	190

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LIGHTING

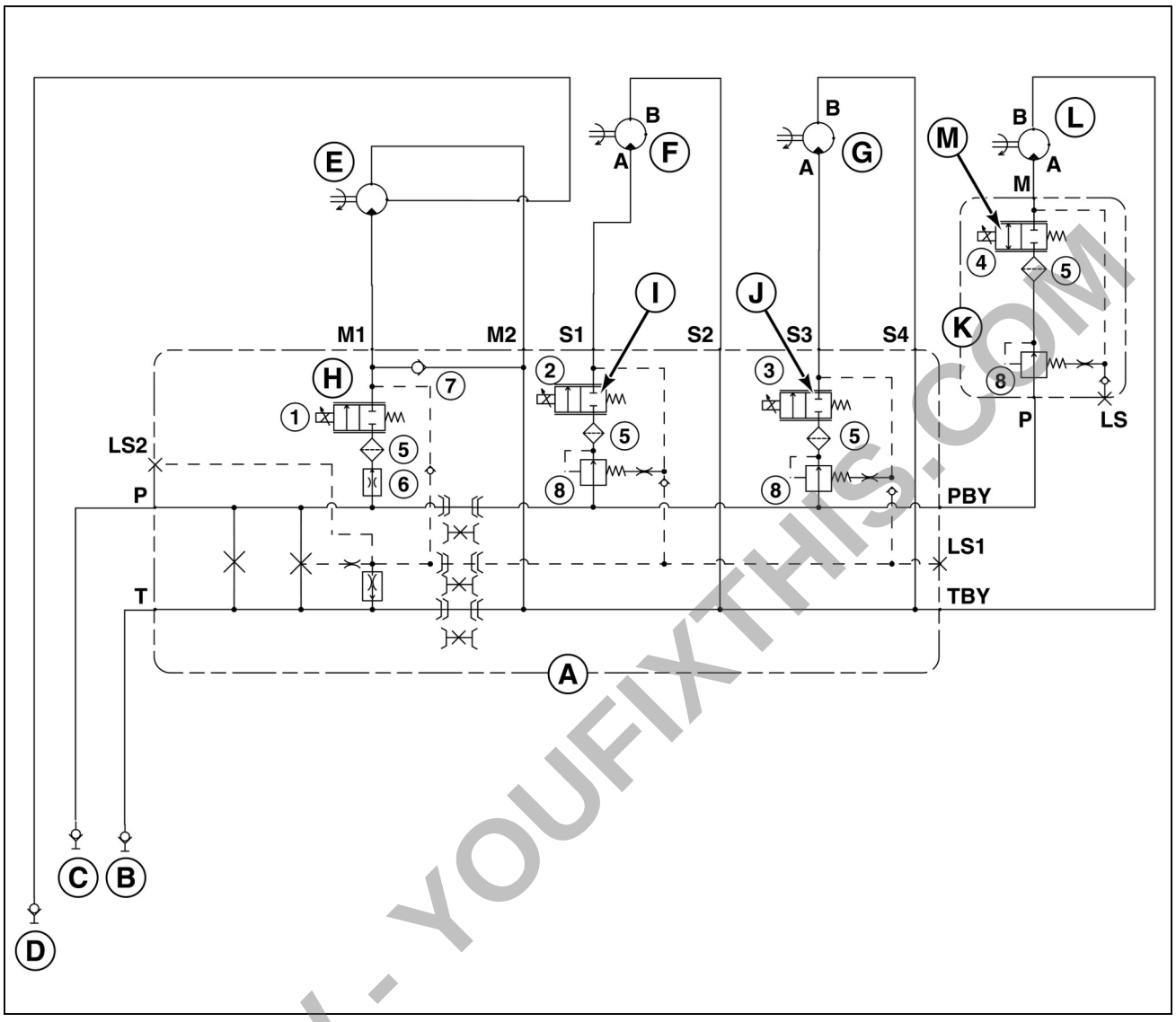


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FRAME 1

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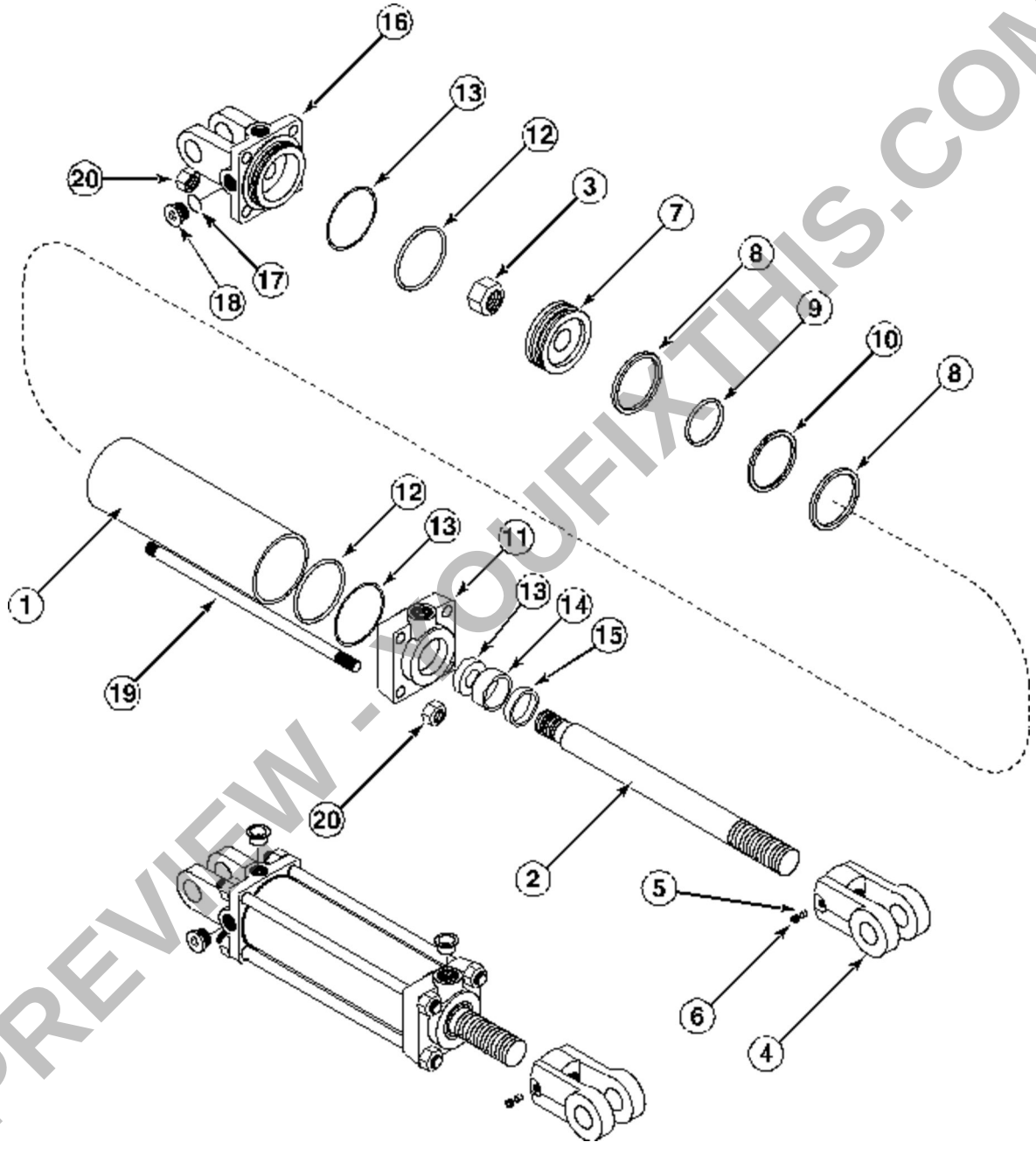
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Folding cylinder - Disassemble - Fold cylinder

Prior operation:
Folding cylinder - Remove (35.944)

NOTE: *Parts marked with an asterisk (*) are included in a seal kit. When performing cylinder disassembly, these parts should be discarded. They must be replaced with new parts during reassembly for proper cylinder sealing.*



RH04H082 1

Fold Cylinder

1. Cylinder Tube	6. Set Screw	11. Cylinder Gland	16. Cylinder Head
2. Piston Rod	7. Piston	12. O-ring*	17. O-ring*
3. Lock Nut	8. Piston Wear Ring*	13. Wear Ring*	18. Hex Plug
4. Clevis	9. Piston Seal*	14. U-cup*	19. Tie Bolt
5. Seal Pad	10. Piston O-ring*	15. Rod Wiper*	20. Hex Nut

1. Remove the four hex nuts **(20)** on the cylinder head **(16)** end of the cylinder and remove the four tie bolts **(19)**.

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Contents

Electrical systems - 55

FAULT CODES - DTC

DIAGNOSTIC

[Clutch Control ECU] - 21nn3-Clutch Control n ECU Solenoid Fault: Digital Output nn voltage above normal, open circuit or shorted to +battery. See operators manual. 8

[Clutch Control ECU] - 21nn4-Clutch Control n ECU Solenoid Fault: Digital Output nn voltage below normal or shorted to ground. See operators manual. 12

[Clutch Control ECU] - 27033-Clutch Control n ECU Power Fault: ECU_PWR voltage is above normal. See operators manual. 16

[Clutch Control ECU] - 27034-Clutch Control n ECU Power Fault: ECU_PWR voltage is below normal. See operators manual. 17

[Clutch Control ECU] - 27073-Clutch Control n ECU Power Fault: Internal 5V voltage is above normal. See operators manual. 21

[Clutch Control ECU] - 27074-Clutch Control n ECU Power Fault: Internal 5V voltage is below normal. See operators manual. 22

[Clutch Control ECU] - 27113-Clutch Control n ECU Power Fault: Internal 8V voltage is above normal. See operators manual. 23

[Clutch Control ECU] - 27114-Clutch Control n ECU Power Fault: Internal 8V voltage is below normal. See operators manual. 24

[Clutch Control ECU] - 27153-Clutch Control n ECU Power Fault: Internal 2.5V Ref voltage is above normal. See operators manual. 25

[Clutch Control ECU] - 27154-Clutch Control n ECU Power Fault: Internal 2.5V Ref voltage is below normal. See operators manual. 26

[Clutch Control ECU] - 27183-Clutch Control n ECU Power Fault: Sensor Pwr voltage is above normal. See operators manual. 27

[Clutch Control ECU] - 27184-Clutch Control n ECU Power Fault: Sensor Pwr voltage is below normal. See operators manual. 29

[Clutch Control ECU] - 27223-Clutch Control n ECU Power Fault: PWR voltage is above normal. See operators manual. 33

[Clutch Control ECU] - 27224-Clutch Control n ECU Power Fault: PWR voltage is below normal. See operators manual. 34

[Clutch Control ECU] - 27263-Clutch Control n ECU Power Fault: Internal 5V_PWR voltage is above normal. See operators manual. 38

[Clutch Control ECU] - 27264-Clutch Control n ECU Power Fault: Internal 5V_PWR voltage is below normal. See operators manual. 39

[Clutch Control ECU] - 27303-Clutch Control n ECU Power Fault: Ground Difference voltage is above normal. See operators manual. 40

[Clutch Control ECU] - 27304-Clutch Control n ECU Power Fault: Ground Difference voltage is below normal. See operators manual. 44

[Clutch Control ECU] - 27403-Clutch Control n ECU Power Fault: +5V voltage is above normal. See operators manual. 49

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21nn3-Clutch Control n ECU Solenoid Fault: Digital Output nn voltage above normal, open circuit or shorted to +battery. See operators manual.

Control Module : Clutch Control ECU

Cause:
The digital output channel, represented by ‘nn’, has a voltage value that is above normal. There is a possibility of an open circuit or a short to the battery.

Possible failure modes:

1. PWR shorted high.
2. Bad connection or open circuit in power or ground wire to the indicated device.
3. Device failure.
4. Faulty Clutch ECU.

Solution:

1. Find out if the fault code is still active.

   Turn system power ON.

   Clear all fault codes from the Clutch ECU.

   Cycle system power.

   A. Fault code 21nn3 is logged. Go to Step 2.

   B. Fault code is not logged. Return the planter to field operation and monitor for recurring fault.
2. Check for shorts to a voltage source higher than the battery voltage (e.g., to the starter system) in the tractor wiring.

   Disconnect connector **X-001** from the tractor.

   Turn system power ON.

   Measure the voltage at the tractor connector (typically J501 or P283) between contact 4 (LB+) and contact 2 (LGND). The voltage should be between **12 - 16 V**.

   A. Voltage outside of range. Go to Step 3.

   B. Voltage within range. Go to Step 4.
3. Check the Farming System harness and the tractor power system.

   Refer to the farming system harnesses in this manual and the tractor repair manual. Check the battery, fuses, and relays. Test primary power and ground circuits as required. Repair or replace components as needed.

   Reconnect all connectors and turn system power ON.

   A. Fault code 21nn3 is logged. Go to Step 4.

   B. Fault code is not logged. Return the planter to field operation.

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Extension harness pinout

Pin	Color	Gauge
1	LT GREEN	18
2	BROWN	18
3	LT BLUE	18
4	ORANGE	18
5	YELLOW	18
6	VIOLET	18
7	GRAY	18
8	PINK	18
9	TAN	18
10	WHITE/BLACK	18
11	BLACK	16
12	BLACK	16
13	BLACK	16
14	BLACK	16
15	PURPLE/WHITE	18
16	DK GREEN/BLACK	18
17	BLACK	16
18	ORANGE/BLACK	18
19	LT BLUE/BLACK	18
20	BLACK/WHITE	18
21	BLACK	16
22	RED/WHITE	18
23	DKGREEN/WHITE	18
24	BLACK	16
25	BLACK	16
26	BLACK	16
27	BLACK	16
28	DK BLUE/WHITE	18
29	BROWN/WHITE	18
30	BLACK	16
31	BLACK	16
32	BLACK	16
33	WHITE/RED	18
34	RED/GREEN	18
35	WHITE	18
36	DK BLUE	18
37	DK GREEN	18

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Index

Hydraulic systems - 35

Frame positioning lifting - 946

Cylinder - Assemble Lift assist 8
Cylinder - Disassemble Lift assist 5
Cylinder - Install Lift assist 10
Cylinder - Remove Lift assist 4
Cylinder - Visual inspection Lift assist 7
Frame positioning lifting - Special tools 3

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Multi-function block valves Marker/Fold - Remove

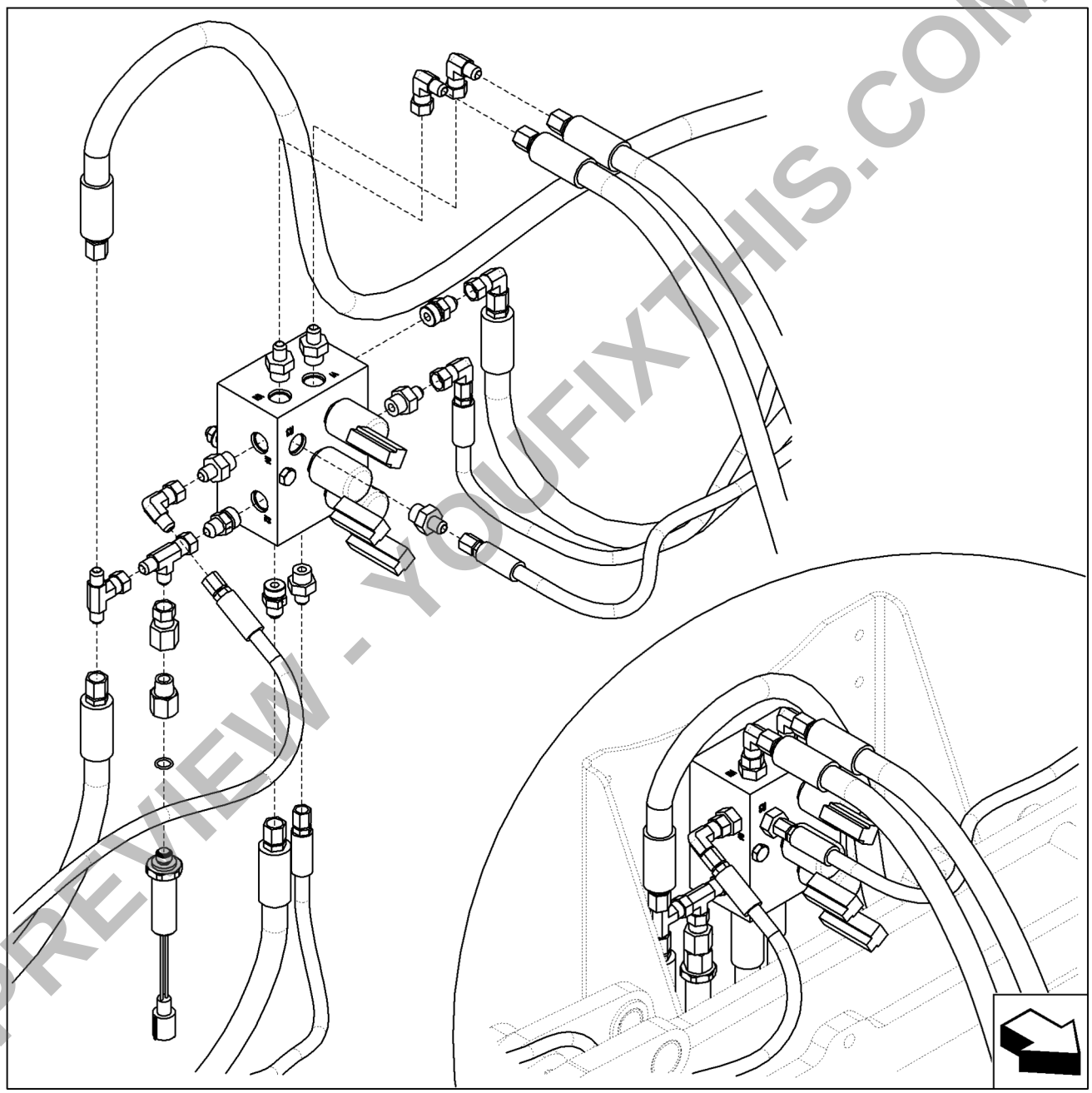
Move the planter to a hard and level surface.

Fully mount the planter to the hitch.

Put the planter parking stands in lowered position and lower the planter on the stands.

Put the remote lever for the marker/fold valve block in the Neutral position to remove pressure from the hydraulic circuit.

Turn the tractor keyswitch OFF.



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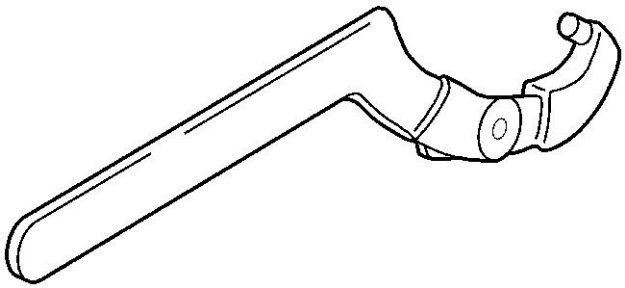
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Planting 79
[79.100] Product handling and delivery drive system 79.1
[79.103] Planting vacuum system 79.2
[79.104] Planting marking system 79.3
[79.105] Planting tool 79.4

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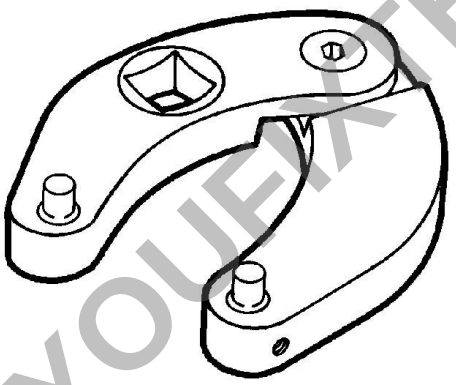
Frame positioning folding - Special tools



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OEM6197

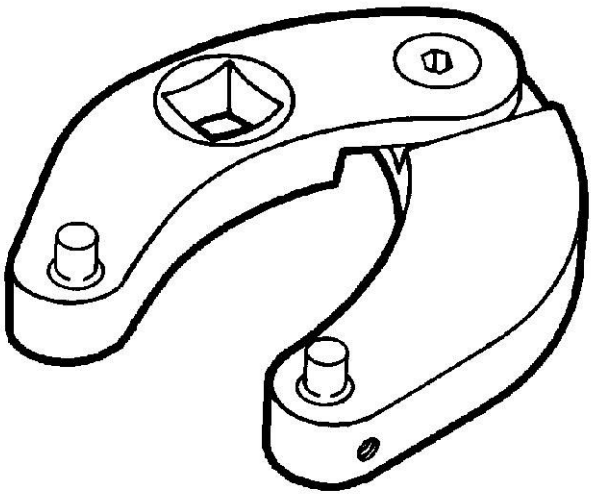
- Pin Spanner Wrench
  For hydraulic cylinder disassembly and assembly
  1/4 in diameter pins adjusts from **2 - 4-3/4 in** diameter



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OEM6209

- Spanner Wrench
  For hydraulic cylinder disassembly and assembly
  3/8 in diameter pins adjusts from **2 - 4-3/4 in** diameter

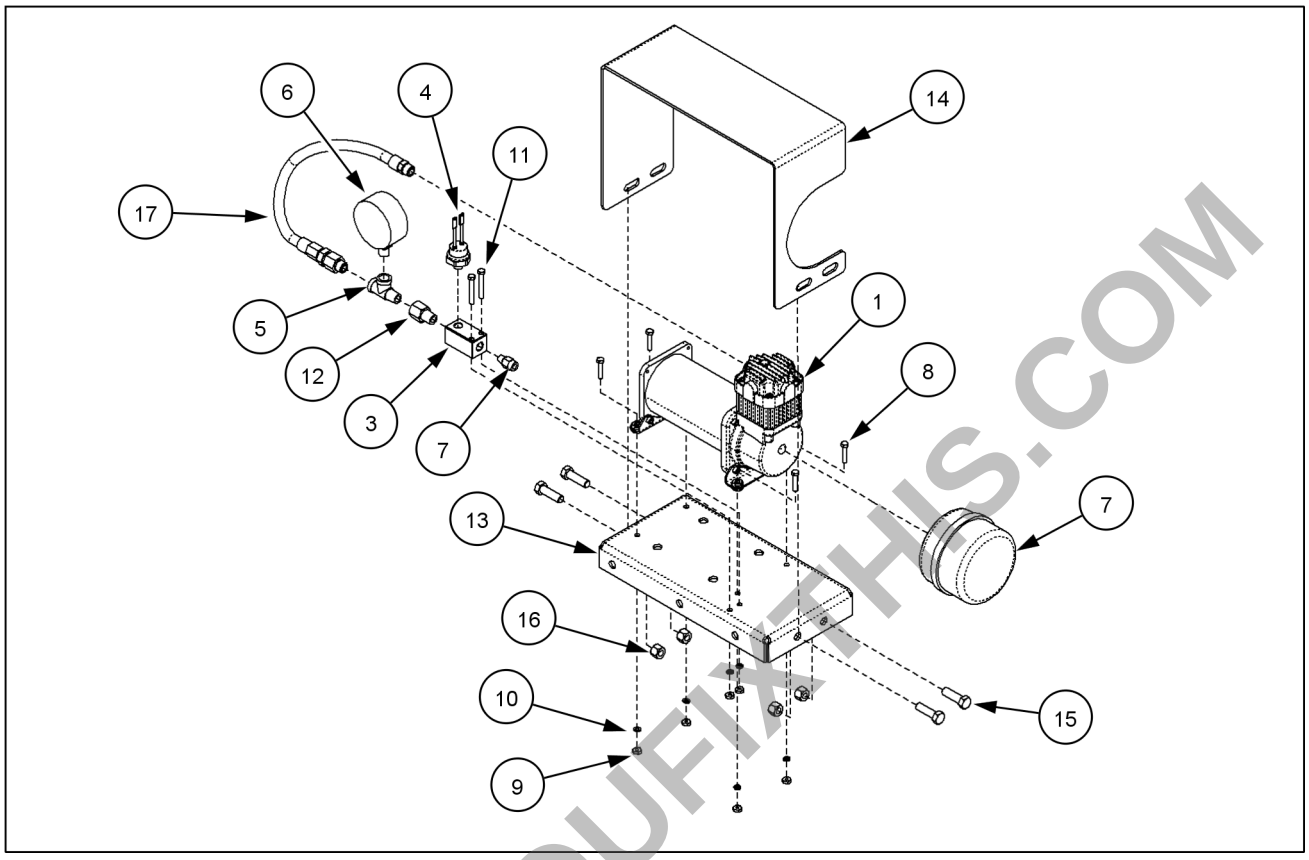


3

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Pneumatic compressor - Disassemble / Assemble



410344C 1

1. Air compressor
2. Filter
3. Air distribution manifold
4. Pressure switch
5. Tee, brass 1/4F-1/4M-1/4F
6. Pressure gauge
7. Fitting, 1/4"
8. Screw, #10-24 x 1"
9. Nut
10. Lock washer
11. Screw, #10-24 x 1-1/2"
12. Adapter, 1/4M-1/4F
13. Compressor base **
14. Compressor shield
15. Bolt, 3/8" x 1"
16. Locknut, 3/8"
17. 1/4" stainless braided hose

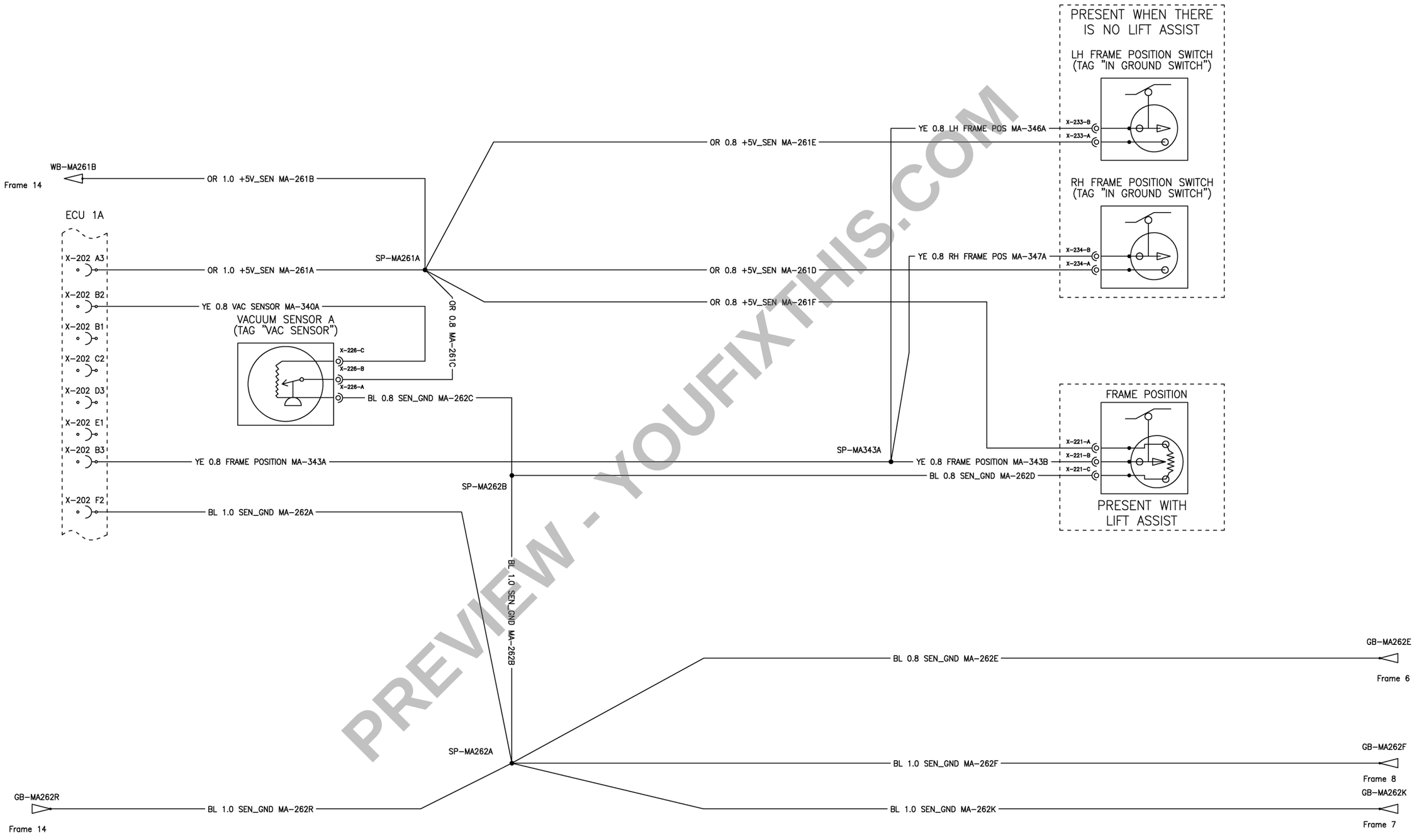
***NOTE:** ** Compressor base may not be exactly as illustrated.*

1. Disassemble/Assemble as shown.

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FRAME POSITION & VACUUM SENSOR



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FRAME 9

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Wiring harnesses - Electrical schematic sheet 07 Center clutch harness - 12 Row Narrow - Splice table

Splice	Frame	Splice	Frame
SP-CV002A	3	SP-CV005D	3
SP-CV005A	3	SP-CV005G	3

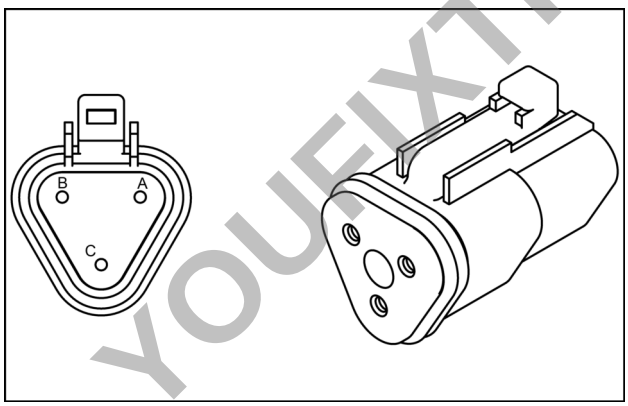
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Wire connectors - Component diagram 22 Main harness connectors X-221 to X-228

CONNECTOR X-221 - FRAME POSITION

CONNECTOR X-221 - FRAME POSITION			
PIN NUMBER	**WIRE NUMBER**	**CIRCUIT REFERENCE**	**ELECTRICAL SCHEMATIC FRAME**
A	78 (OR)	+5V_SEN	**Wiring harnesses - Electrical schematic sheet 09 Main wire harness - Frame position and vacuum sensor (55.100)**
B	79 (YE)	FRAME POSITION	**Wiring harnesses - Electrical schematic sheet 09 Main wire harness - Frame position and vacuum sensor (55.100)**
C	93 (BL)	SEN_GND	**Wiring harnesses - Electrical schematic sheet 09 Main wire harness - Frame position and vacuum sensor (55.100)**



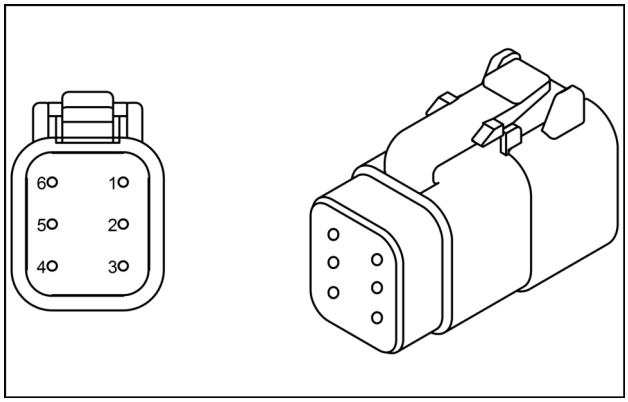
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CONNECTOR X-901-9 - SEED SENSOR 9

CONNECTOR X-901-9 - SEED SENSOR 9					
PIN NUMBER	**WIRE NUMBER**	**CIRCUIT REFERENCE**	**CENTER SECTION 16 ROW NARROW**	**CENTER SECTION 12 ROW NARROW**	**CENTER SECTION 12 ROW WIDE**
1	-	-	**Wiring harnesses - Electrical schematic sheet 05 Center seed sensor harness - 16 Row Narrow - Seed sensor connections, 3 of 3 (55.100)**	**Wiring harnesses - Electrical schematic sheet 05 Center seed sensor harness - 12 Row Narrow - Seed sensor connections, 3 of 3 (55.100)**	**Wiring harnesses - Electrical schematic sheet 05 Center seed sensor harness - 12 Row Wide - Seed sensor connections, 3 of 3 (55.100)**
2	-	-	**Wiring harnesses - Electrical schematic sheet 05 Center seed sensor harness - 16 Row Narrow - Seed sensor connections, 3 of 3 (55.100)**	**Wiring harnesses - Electrical schematic sheet 05 Center seed sensor harness - 12 Row Narrow - Seed sensor connections, 3 of 3 (55.100)**	**Wiring harnesses - Electrical schematic sheet 05 Center seed sensor harness - 12 Row Wide - Seed sensor connections, 3 of 3 (55.100)**
3	-	-	**Wiring harnesses - Electrical schematic sheet 05 Center seed sensor harness - 16 Row Narrow - Seed sensor connections, 3 of 3 (55.100)**	**Wiring harnesses - Electrical schematic sheet 05 Center seed sensor harness - 12 Row Narrow - Seed sensor connections, 3 of 3 (55.100)**	**Wiring harnesses - Electrical schematic sheet 05 Center seed sensor harness - 12 Row Wide - Seed sensor connections, 3 of 3 (55.100)**
4	17 (YE)	SEED SENSOR 5/6/9	**Wiring harnesses - Electrical schematic sheet 05 Center seed sensor harness - 16 Row Narrow - Seed sensor connections, 3 of 3 (55.100)**	**Wiring harnesses - Electrical schematic sheet 05 Center seed sensor harness - 12 Row Narrow - Seed sensor connections, 3 of 3 (55.100)**	**Wiring harnesses - Electrical schematic sheet 05 Center seed sensor harness - 12 Row Wide - Seed sensor connections, 3 of 3 (55.100)**
5	42 (BL)	SENSOR GND	**Wiring harnesses - Electrical schematic sheet 05 Center seed sensor harness - 16 Row Narrow - Seed sensor connections, 3 of 3 (55.100)**	**Wiring harnesses - Electrical schematic sheet 05 Center seed sensor harness - 12 Row Narrow - Seed sensor connections, 3 of 3 (55.100)**	**Wiring harnesses - Electrical schematic sheet 05 Center seed sensor harness - 12 Row Wide - Seed sensor connections, 3 of 3 (55.100)**
6	48 (PK)	SENSOR PWR	**Wiring harnesses - Electrical schematic sheet 05 Center seed sensor harness - 16 Row Narrow - Seed sensor connections, 3 of 3 (55.100)**	**Wiring harnesses - Electrical schematic sheet 05 Center seed sensor harness - 12 Row Narrow - Seed sensor connections, 3 of 3 (55.100)**	**Wiring harnesses - Electrical schematic sheet 05 Center seed sensor harness - 12 Row Wide - Seed sensor connections, 3 of 3 (55.100)**



87700107 9

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Monitor connecting wiring harness - Electrical schematic sheet 01 STX Steiger Series Tractors - BSN Y9S007001

Connector **J273** - Cab power Jumper harness
Connector **P273** - Cab power Jumper harness
Connector **J254** - Armrest controller
Connector **P254** - Armrest controller
Connector **P285** - Display (gray)
Connector **P286** - Display (black)
Connector **P293** - Active terminator
Connector **P294** - End of row

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27113-Clutch Control n ECU Power Fault: Internal 8V voltage is above normal. See operators manual.

Control Module : Clutch Control ECU

Cause:
The internal **8 V** voltage is above normal.

Possible failure modes:

1. Faulty Clutch ECU.

Solution:

1. Find out if the fault code is still active.

   Turn system power ON.

   Clear all fault codes from the Clutch ECU.

   Cycle system power.

   A. Fault code 27113 is logged. Go to Step 2.

   B. Fault code is not logged. Return the planter to field operation and monitor for recurring fault.
2. Replace the Clutch ECU.

   Turn system power OFF.

   Replace the Clutch ECU.

   Install, program, set implement identification, and re-calibrate the system.

   A. Fault code 27113 is logged. Reinstall the original Clutch ECU. Submit a concern through ASIST.

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

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Clean the connectors and replace damaged contacts. Repair any shorts to PWR, GND, ECU_PWR, and ECU_GND circuits, and repair any open circuits in the wiring between connector and contact pairs.

Main Harness (16, 12, & 8 Row)

Connector 1	Contact 1	Connector 2	Contact 2
X-001	1 (GND)	**X-203**	T1 W1 (GND)
X-001	2 (ECU_GND)	**X-203**	T3 (ECU_GND)
X-001	3 (PWR)	**X-203**	X1, X2, Y1, Y2 (PWR)
X-001	4 (ECU_PWR)	**X-203**	W3 (ECU_PWR)
X-001	6 (TBC_PWR)	**X-251**	B (TBC_PWR)
X-001	7 (TBC_RTN)	**X-251**	D (CAN_RTN)
X-001	8 (CAN_H)	**X-251**	E (CAN_H)
X-001	9 (CAN_L)	**X-251**	F (CAN_L)
X-001	1 (GND)	**X-243**	E, H (GND)
X-001	2 (ECU_GND)	**X-243**	C (ECU_GND)
X-001	3 (PWR)	**X-243**	A, D (PWR)
X-001	4 (ECU_PWR)	**X-243**	B (ECU_PWR)
X-001	8 (CAN_H)	**X-243**	F (CAN_H)
X-001	9 (CAN_L)	**X-243**	G (CAN_L)

Center Clutch Overlay Harness (16, 12, & 8 Row)

Connector 1	Contact 1	Connector 2	Contact 2
X-690	A (PWR)	**X-671**	X1, X2 (PWR)
X-690	D (PWR)	**X-671**	Y1, Y2 (PWR)
X-690	E (GND)	**X-671**	T1 (GND)
X-690	H (GND)	**X-671**	W1 (GND)
X-690	B (ECU_PWR)	**X-671**	W3 (ECU_PWR)
X-690	C (ECU_GND)	**X-671**	T3 (ECU_GND)
X-690	F (CAN_H)	**X-671**	Y3 (CAN_H)
X-690	G (CAN_L)	**X-671**	X3 (CAN_L)

Cycle power.

A. Fault code 2003 is logged. Go to Step **3**.

B. Fault code is not logged. Return the planter to field operation.

3. Check power at the CAN bus active terminator connector in the tractor on the farming system harness.

Clear all Rate ECU fault codes.

Turn system power OFF.

Remove the CAN bus active terminator in the tractor from (typically) connector P293 or connector P512 on the farming system harness. Refer to the farming system harness schematics in this manual for additional information.

Turn system power ON.

Measure the voltage between contact 1 (DATABUS B+) and contact 3 (DATABUS GROUND) of the CAN bus active terminator connector on the farming system harness. The voltage should be between **10.5 - 14.5 V**.

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Turn system power ON.

A. Fault code 26152 is logged. Go to Step **5**.

B. Fault code is not logged. Return the planter to field operation.

5. Repair any shorts to other circuits and open circuits in the main harness between 1 (GND), 2 (ECU_GND), 3 (PWR), and 4 (ECU_PWR) of connector **X-001**, contacts A, D (PWR), E, H (GND), B (ECU_PWR), and C (ECU_GND) of connector **X-243**, and contacts T1, W1 (GND), X1, X2, Y1, Y2 (PWR), W3 (ECU_PWR), and T3 (ECU_GND) of connector **X-203**.

   Turn system power ON.

   A. Fault code 26152 is logged. Go to Step **6**.

   B. Fault code is not logged. Return the planter to field operation.

6. Replace the Rate ECU.

   Turn system power OFF.

   Replace the Rate ECU.

   Install, program, set implement identification and recalibrate system.

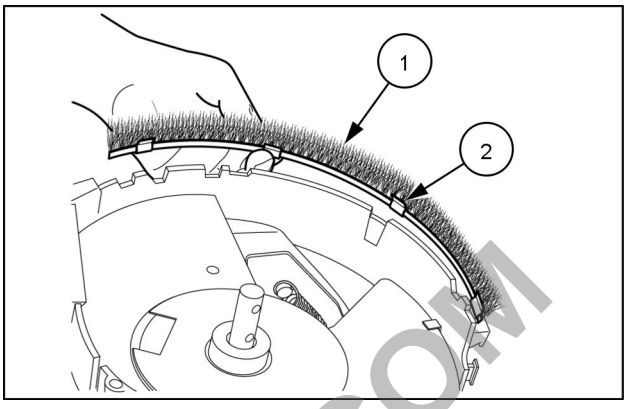
   A. Fault code 26152 is logged. Reinstall the original Rate ECU. Submit a concern through ASIST.

   B. Fault code is not logged. Write the fault code on the failed Rate ECU. Return the planter to field operation.

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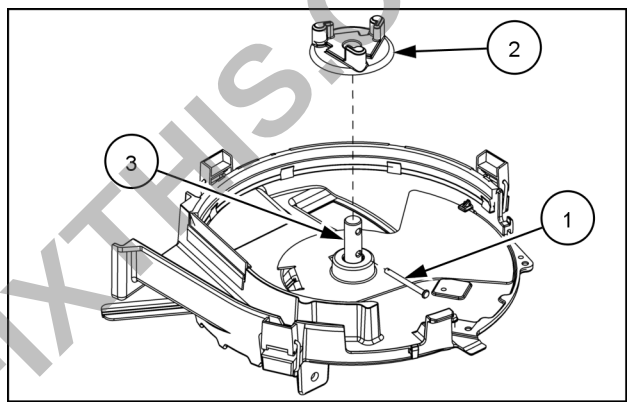
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5. Install the brush clips **(2)** in the notches and push the curved brush **(1)** into the clips, starting at the straight brush end. This ensures that the brushes are in contact with each other to prevent seeds from leaking.



RH04G204 5

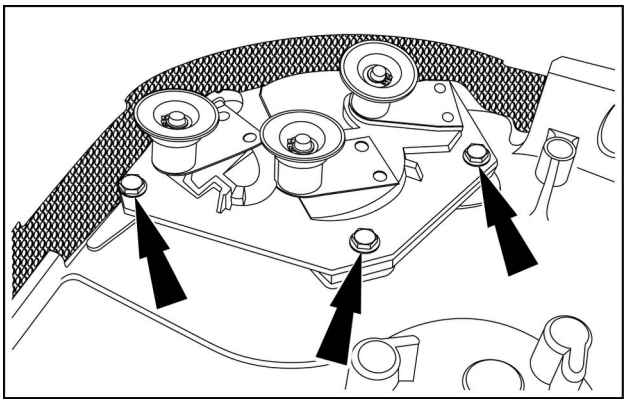
6. Install the rotor **(2)** on the shaft **(3)**. Secure the rotor with the pin **(1)**.



SAIS13PLA0801AA 6

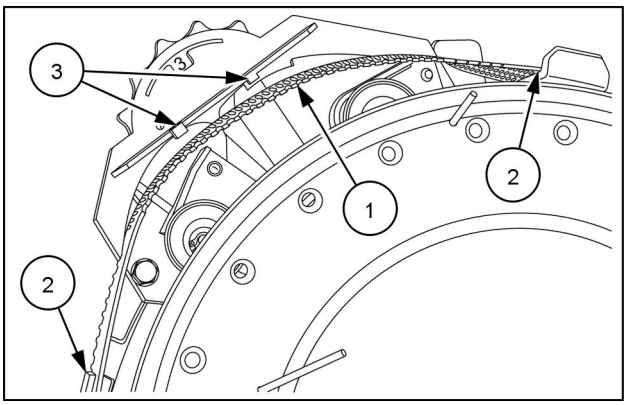
7. Slide the singulator assembly into the seed meter and secure with three screws removed earlier. If required, apply dry powdered graphite to the tracks to allow the assembly to slide freely.

NOTE: *Do not use chemical solvents to clean the singular. Damage to plastic parts will occur. Use ONLY dry powdered graphite in the tracks.*



SAIL13PLA0760AA 7

8. Install the screen **(1)** into the hooks on the singulator **(3)** and the meter housing **(2)**.



SAIL13PLA0761AA 8

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