FIXTHIS.COM

WD2104
WD2504
Tier 4B (final)
Self-Propelled Windrower

PIN YGG677501 and above

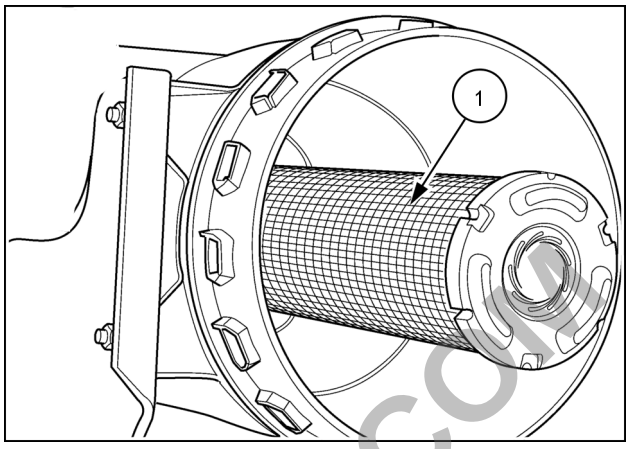
SERVICE MANUAL

Part number 48126554
1st edition English
April 2017

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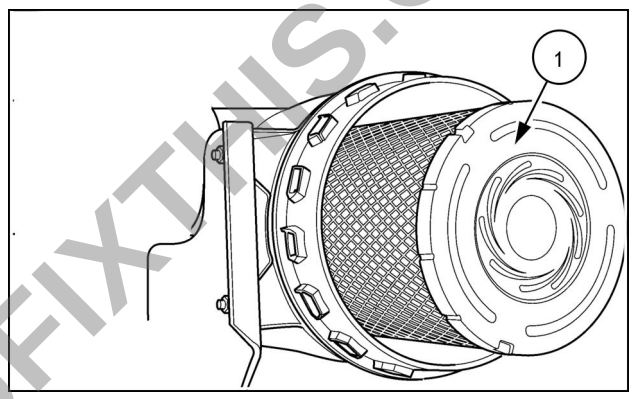
7. Clean the inside of the air cleaner housing and cover using a damp, lint-free cloth.

NOTICE: *Do not remove or disturb the inner element* ***(1)****. The inner element must be replaced if there is any sign of dirt on it. The inner element should not be cleaned, but only replaced.*



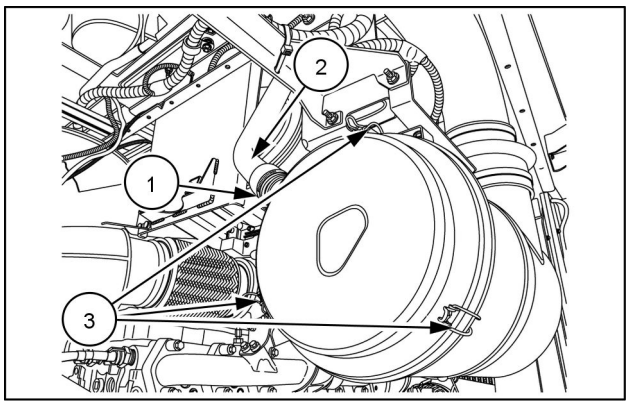
10041167 4

8. Install the outer element **(1)**. Push the element in all the way.



10041166 5

9. Install the cover at the angle at which it was removed.
10. Secure the cover with the three latches **(3)**.
11. Install the hose **(2)** back onto the cover.
12. Secure the hose to the cover with hose clamp **(1)**.



NHIL14WR00306AA 6

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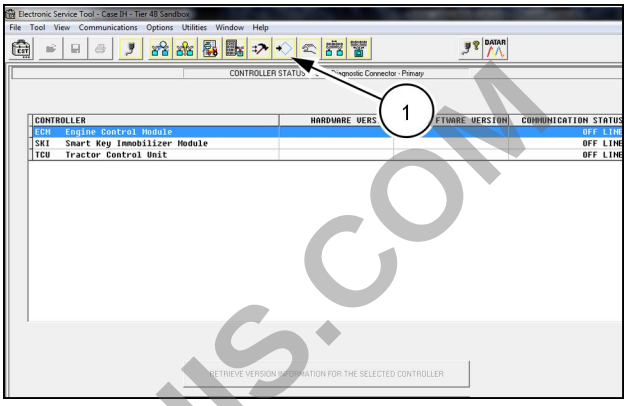
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Pressure regulating valve - Configure - Reset ECU data

WD2104 Tier 4b (final) [YGG677501 -]	NA

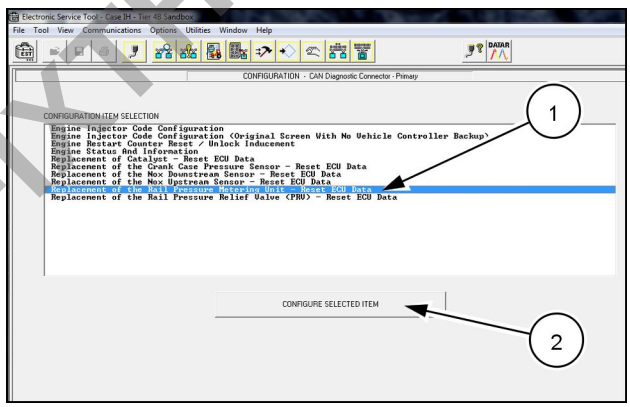
NOTE: *Active dosing faults require additional key cycles in order for the Engine Control Unit (ECU) to determine the fault has been repaired. Afterrun must be completed between each key cycle.*

1. Connect the Electronic Service Tool (EST) and turn the key switch ON without starting the engine.
2. Click the “Configuration” icon **(1)**.



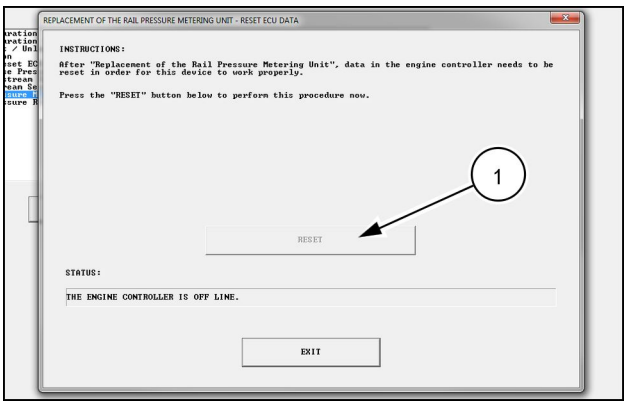
NHPH14ENG0006AA 1

3. Select “Replacement of the Rail Pressure Metering Unit – Reset ECU Data” **(1)**.
4. Click the “CONFIGURE SELECTED ITEM” button **(2)**.



NHPH14ENG0018AA 2

5. Click the “RESET” button **(1)**.

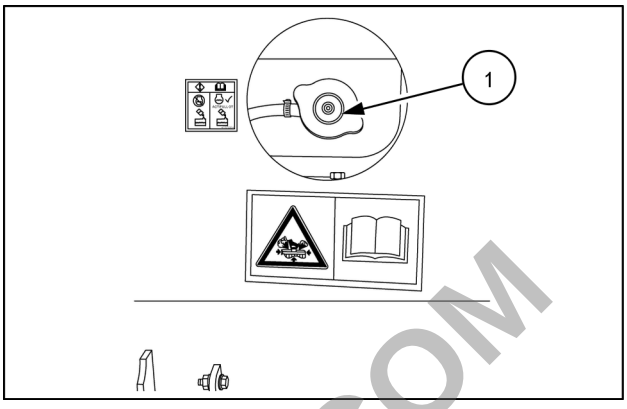


NHPH14ENG0019AA 3

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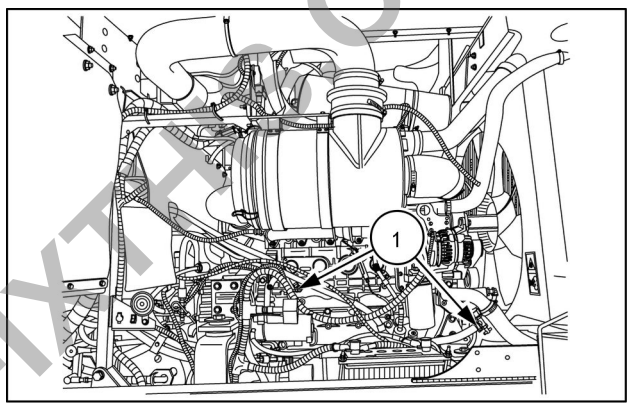
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3. Remove the radiator cap **(1)** to allow the coolant to flow faster.



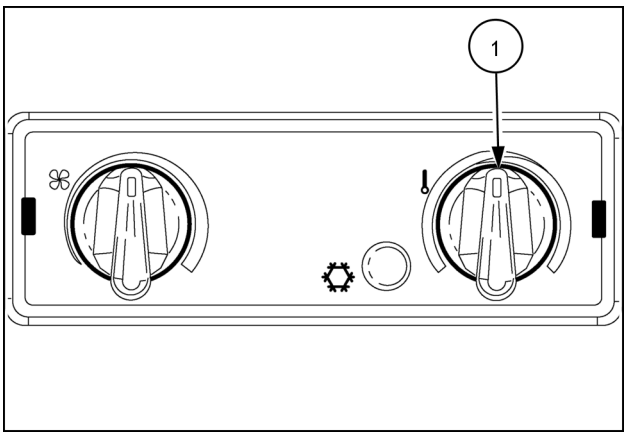
NHIL15WR00471AA 3

4. Open the heater shutoff valve **(1)** on the left side of the engine.



NHIL14WR00296AA 4

5. Turn the key switch to the "RUN" position.
6. The heater control knob **(1)** must be turned to maximum heat. This will open the valve and allow coolant to drain from the heater core. After 10 seconds turn the key switch to the "OFF" position.



36082789 5

7. Run some clean water through the radiator to clean it out.
8. Allow all the coolant to drain out and dispose of it in an acceptable manner.
9. Close the petcock on the bottom of the radiator.

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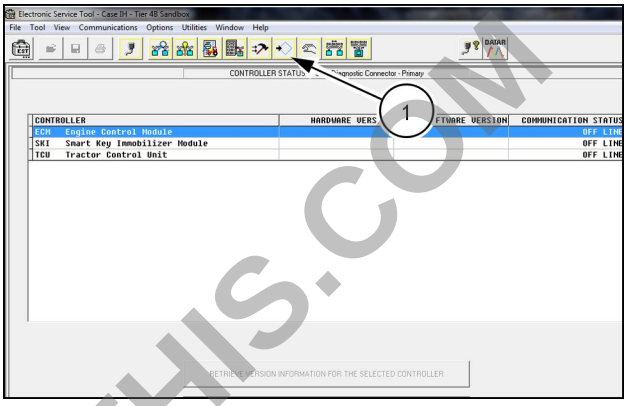
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Selective Catalytic Reduction (SCR) exhaust treatment - Configure - Engine restart counter reset

WD2104 Tier 4b (final) [YGG677501 -]	NA

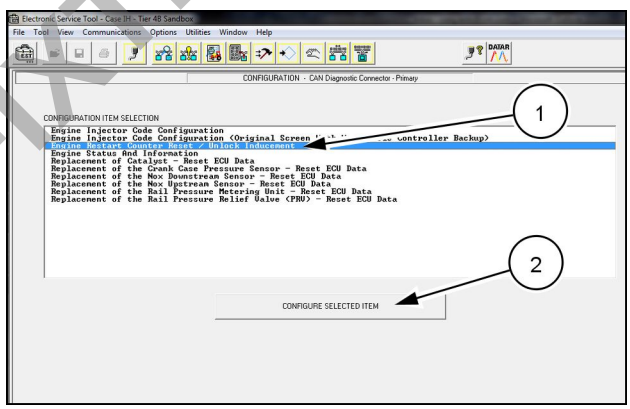
NOTE: *Active dosing faults require additional key cycles in order for the Engine Control Unit (ECU) to determine the fault has been repaired. Afterrun must be completed between each key cycle.*

1. Connect the Electronic Service Tool (EST) and turn the key switch ON without starting the engine.
2. Click the “Configuration” icon **(1)**.



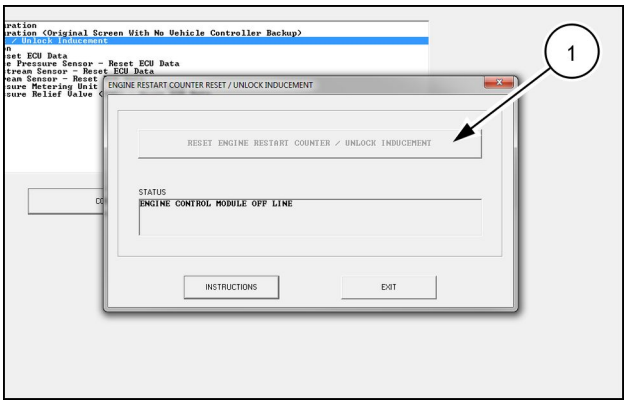
NHPH14ENG0006AA 1

3. Select “Engine Restart Counter Reset / Unlock Inducement” **(1)**.
4. Click “CONFIGURE SELECTED ITEM” **(2)**.



NHPH14ENG0013AA 2

5. Click the “RESET ENGINE RESTART COUNTER / UNLOCK INDUCEMENT” button **(1)**.



NHPH14ENG0012AA 3

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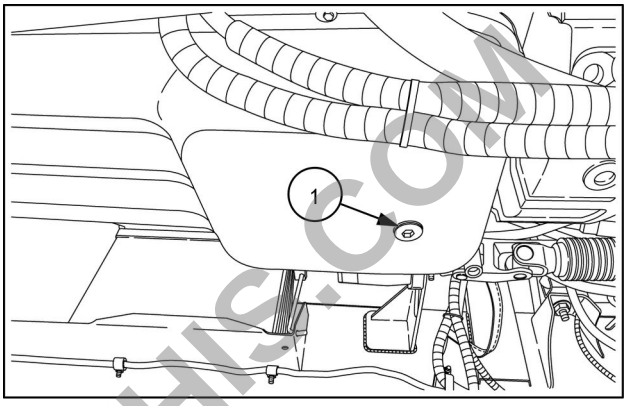
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Engine oil filter - Replace - Engine oil and filter

Warm the engine to operating temperature. Park the windrower on a level surface centering the steering wheel, set the park brake and stop the engine.

NOTICE: *Clean the area around each check plug, fill cap, dipstick, etc. before removal. Failure to clean these areas may allow contamination to enter the system.*

1. Remove engine oil drain plug **(1)** and catch the oil in a suitable container.
2. Replace the drain plug after the oil has been drained.

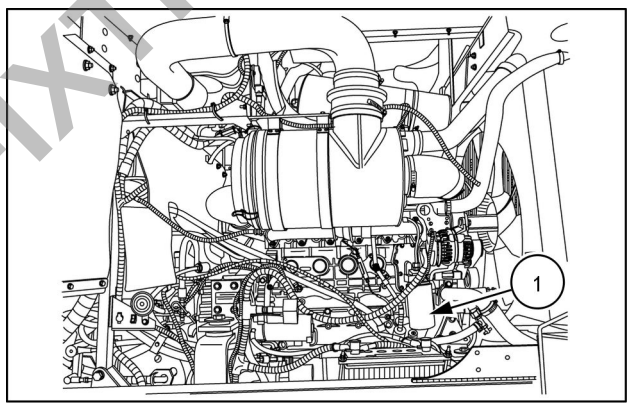


NHIL13WR00114AA 1

3. Clean the oil filter area. Unscrew and discard the oil filter **(1)**.

NOTE: *Always discard used oil and filters properly.*

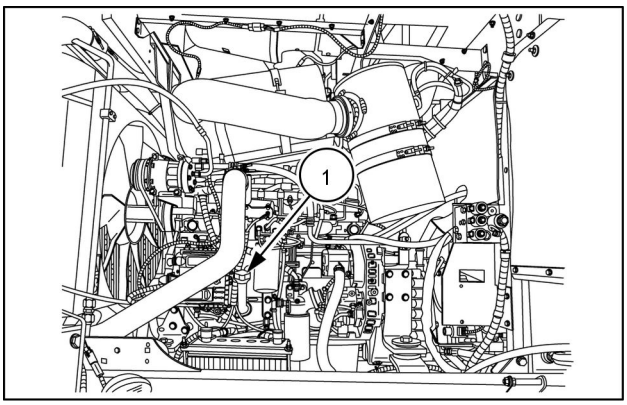
4. Apply a thin film of clean oil around the rubber seal of the new oil filter. Screw the new filter onto the filter head until the rubber seal contacts the mounting surface, then tighten an additional 3/4 to 1 full turn. Do not overtighten.



NHIL14WR00296AA 2

5. Clean any debris from around the crankcase fill cap.
6. Remove the filler cap **(1)** and fill the engine with approximately **16 l** (**16.9 US qt**) of fresh oil, adhering to the correct grade and viscosity oil. Refer to **General specification - Recommended engine oil operating temperature ranges ()** .
7. Start and run the engine at idle speed for approximately one minute to circulate the oil, then stop the engine.

NOTICE: *Verify the engine oil pressure is in the operating range at start up. If it is not, stop the engine and investigate the cause, or serious engine damage will result.*



NHIL14WR00293AA 3

8. Check the drain plug and oil filter areas for leaks.
9. Wait five minutes, to allow the oil to drain into the oil pan, and recheck the oil level on the dipstick. The oil level should be between the two notches.
10. If required, add more oil to obtain the correct level.

NOTICE: *Do not operate engine with the oil level below the lower notch on the dipstick. Damage to the engine may occur.*

NOTICE: *The use of B20 fuel requires checking the engine oil daily. If the oil level increases, contact your dealer.*

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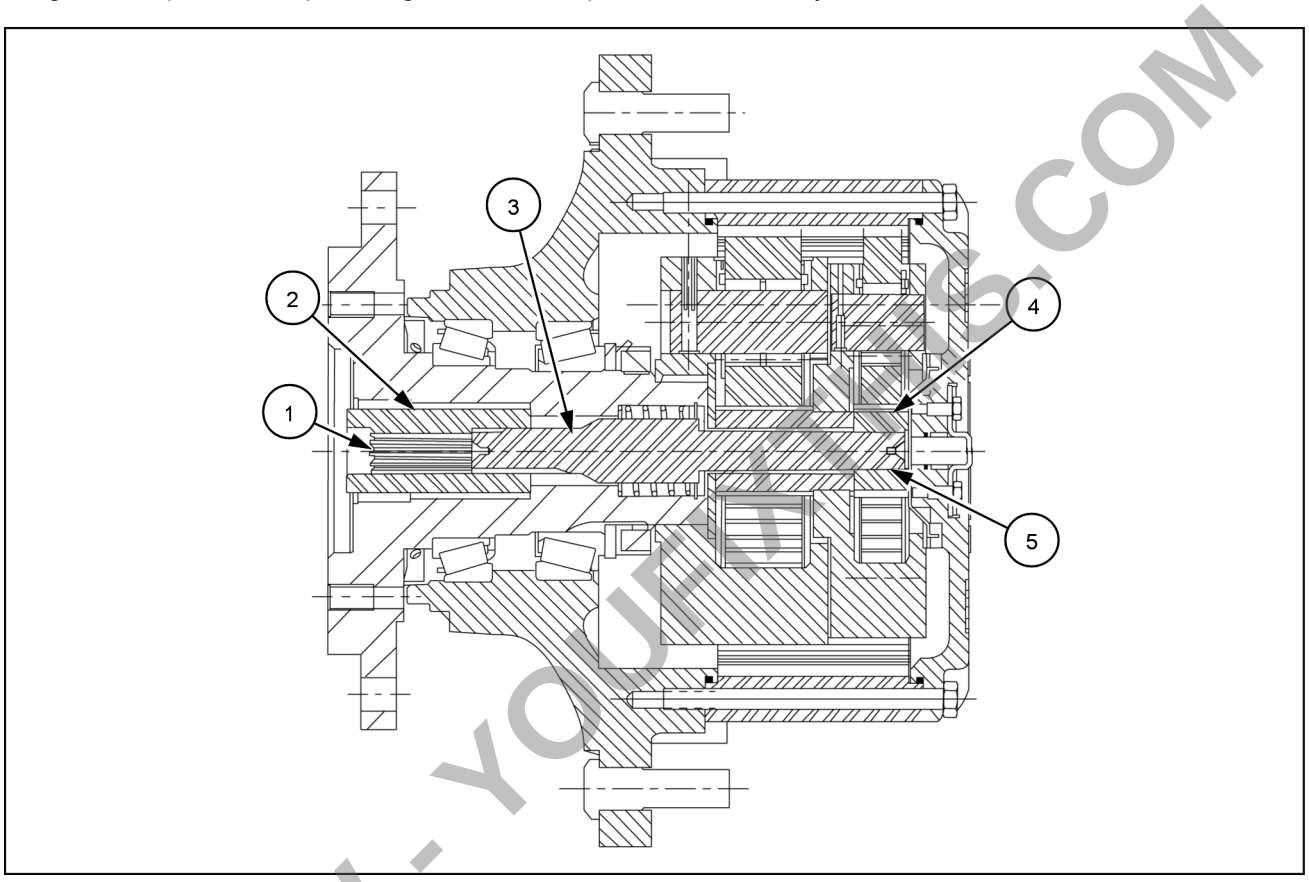
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Final drives - Dynamic description - Planetary Hubs

WD2104 Tier 4b (final) [YGG677501 -]	NA

Two-speed and Three-Speed Planetary Hubs

The operation of the two- and three-speed planetary hubs are similar. The differences between the hubs are the gearing of the input shaft, input sun gear, and the input carrier assembly.



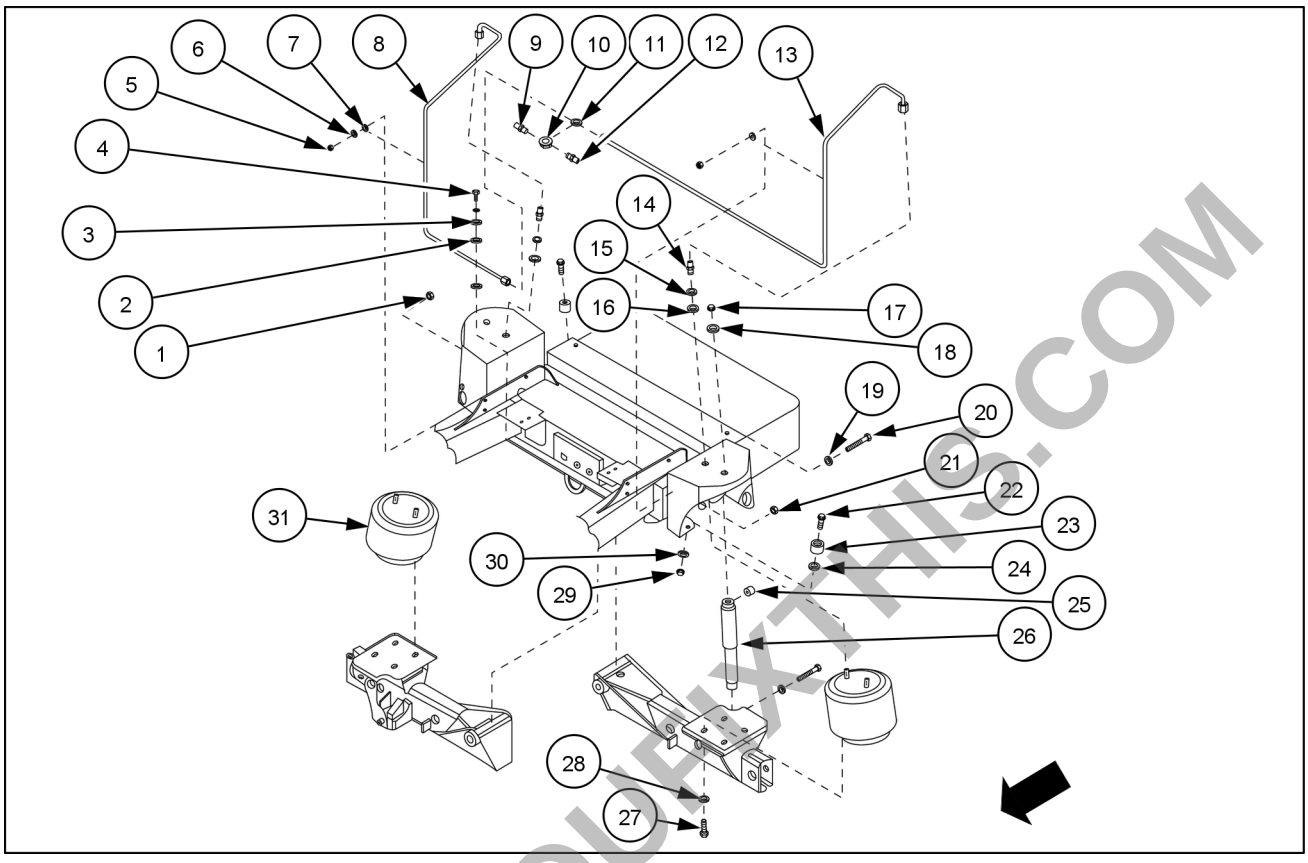
NHIL17WR00149FA 1

Self-Propelled Windrowers have double reduction final drive hubs. The hydraulic motor shaft **(1)** rotates as flow is applied from the hydraulic pumps. A coupling **(2)** has internal splines and makes the connection from the motor shaft to the hub shaft **(3)**. The primary sun gear **(4)** is splined onto the end of the hub shaft.

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Rear axle - Exploded view - Suspended axle air system

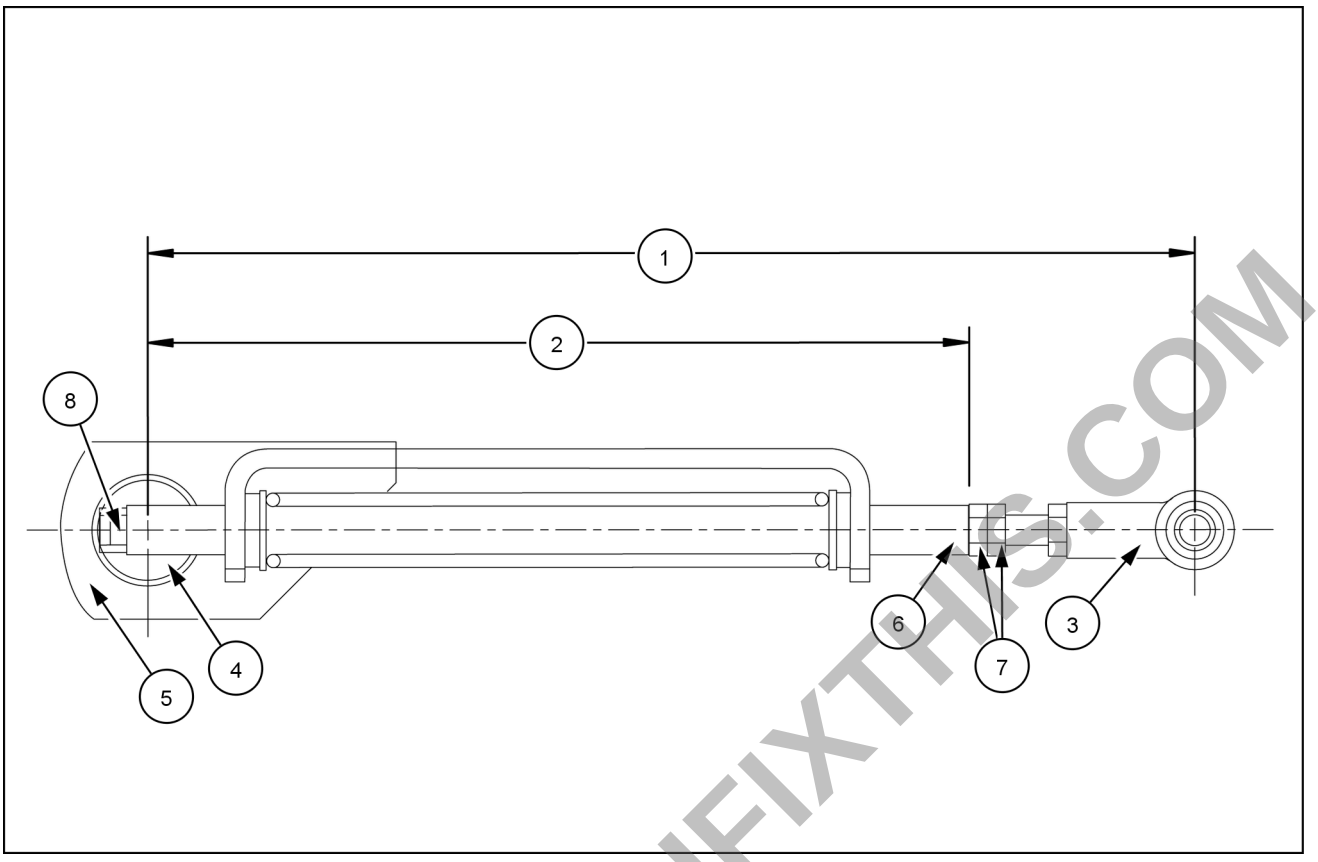


NHIL17WR00158FA 1

Ref.	Qty.	Component
(1)	1	Bolt, hex, **1/4 in** x **1 in**
(2)	2	Clamp
(3)	2	Plate, cover
(4)	4	Bolt, **1/4 in** x **1 1/4 in**
(5)	2	Nut, hex, **1/4 in**
(6)	6	Washer, lock, **1/4 in**
(7)	2	P-clamp, wire
(8)	1	Tube, right-hand air suspension
(9)	1	Pipe fitting, tank valve
(10)	1	Hydraulic connector, tee
(11)	1	Tee
(12)	1	Valve, pressure relief
(13)	1	Tube, left-hand air suspension
(14)	2	Hydraulic connector, **7/16 in** JIC x **1/4 in** NPT
(15)	2	Nut, **3/4 in**
(16)	2	Washer, Belleville, M20
(17)	2	Nut, flange, **1/2 in**
(18)	2	Washer, lock
(19)	4	Washer, lock, helical spring
(20)	4	Bolt, hex, **3/4 in** x **4 1/2 in**
(21)	1	Bolt, hex **1/4 in** x **3/4 in**
(22)	2	Bolt, hex **3/8 in** x **1 1/4 in**
(23)	2	Bumper, rubber
(24)	2	Washer, **10.32 mm** ID x **57.15 mm** OD
(25)	2	Spacer, shock absorber
(26)	2	Shock absorber

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NHIL16WR00008FA 3

Centering spring dimensions

Ref.	Dimension	Details
(1)	**336.8 mm** (**13.3 in**)	From the center-line of the spherical bearing rod end **(3)** to the center-line of bearing **(4)** pressed into the support assembly **(5)** ***NOTE:*** *Assemble **(3)** and **(7)** loosely, final adjustment will be obtained during installation.*
(2)	**263.3 – 265.3 mm** (**10.4 – 10.4 in**)	From the center-line of bearing **(4)** pressed into the support assembly **(5)** to the outer shoulder of the spacer **(6)** ***NOTE:*** *Adjust the jam nuts **(7)** to obtain the dimension **(2)**. End play of rod **(8)** must not exceed **0.300 mm** (**0.012 in**).*

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Parking brake or parking lock - Dynamic description

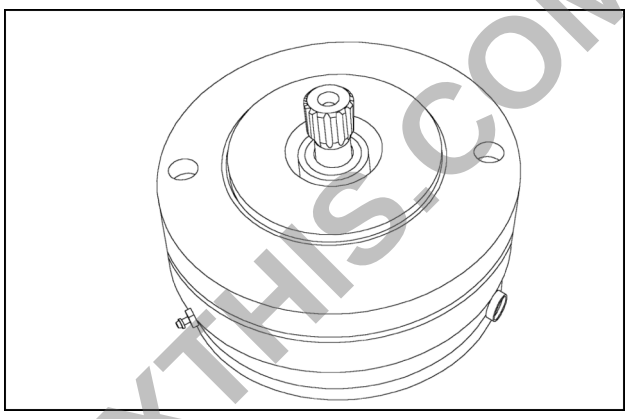
WD2104 Tier 4b (final) [YGG677501 -]	NA

⚠ WARNING

Pressurized hydraulic fluid can penetrate the skin and cause severe injuries.
To have the correct operation of brake unit, hydraulic pressure to the brake must fall to zero psi. Any residual back pressure applied to the brake will degrade the braking function.
Failure to comply could result in death or serious injury.

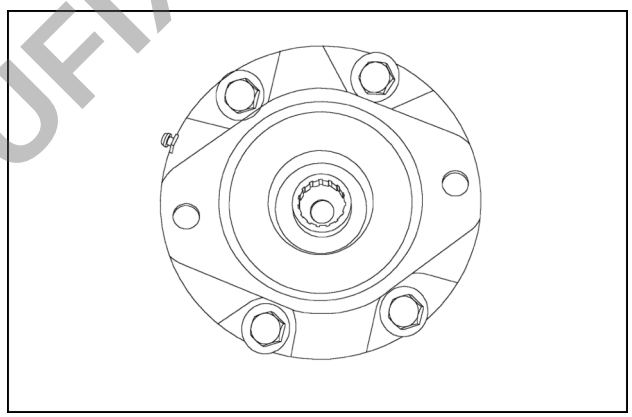
W0994A

The multi disc brake is a spring applied brake. Hydraulic pressure is required to release or "hold off" the brakes of the windrower. It is not used to stop the unit, but to hold in place.



40045418N 1

With the windrowers hydraulic system running the brake is pressurized in the released position during normal operation.

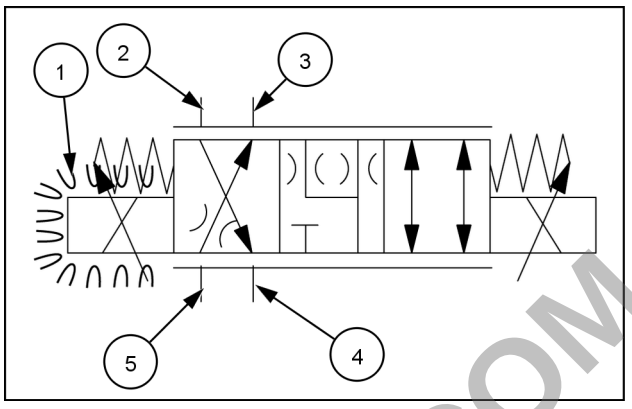


40045419N 2

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When the solenoid on the other side of the proportional valve is energized **(1)** the valve spool shifts proportionally, sending hydraulic pressure to the propulsion cylinder, causing the cylinder to engage in forward or reverse. The supply to the proportional valve **(2)** and **(5)** and the return to reservoir from the valve **(3)** and **(4)** are reversible, depending on the plumbing of the valve.



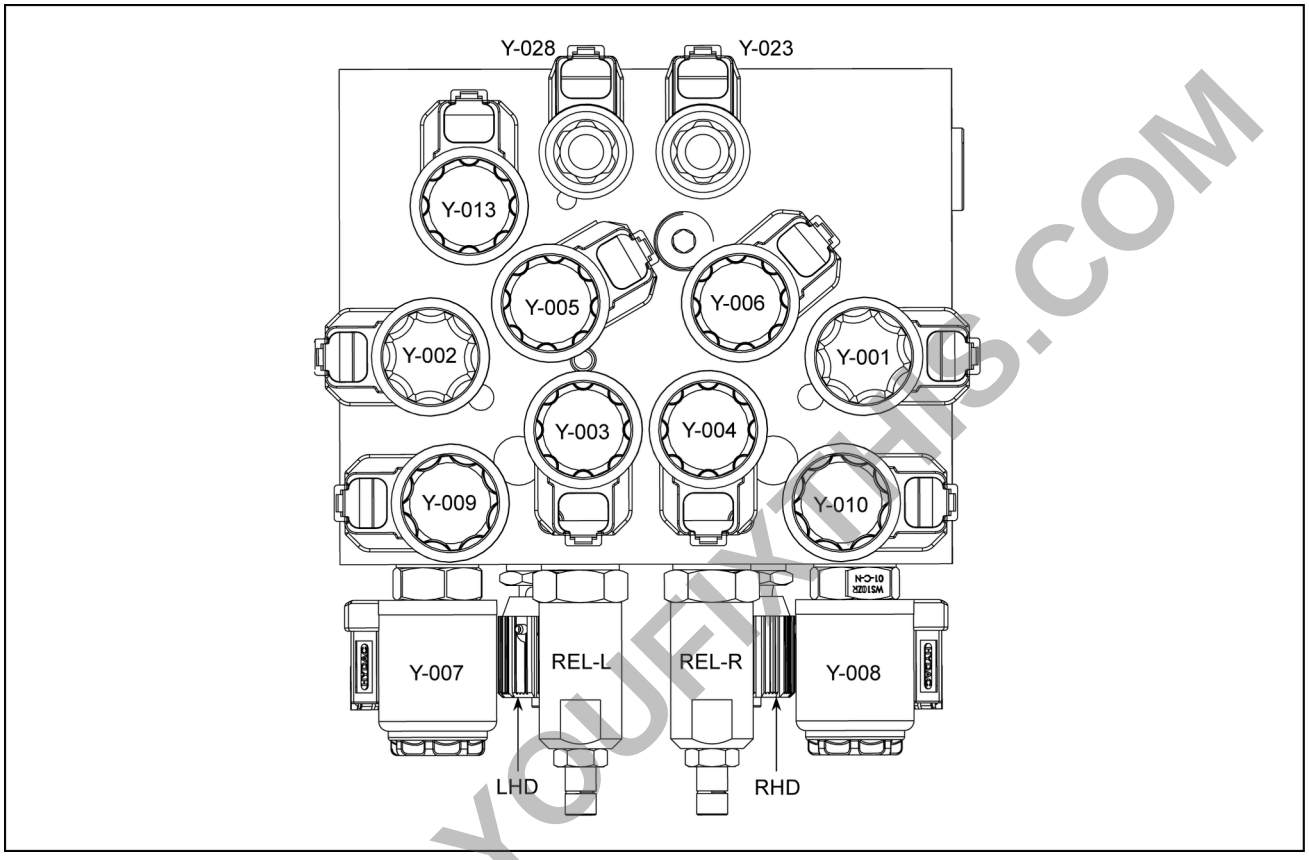
NHIL13WR00622AA 9

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Hydraulic systems - Dynamic description - Independent float solenoid engagement chart

WD2104	NA
WD2504	NA

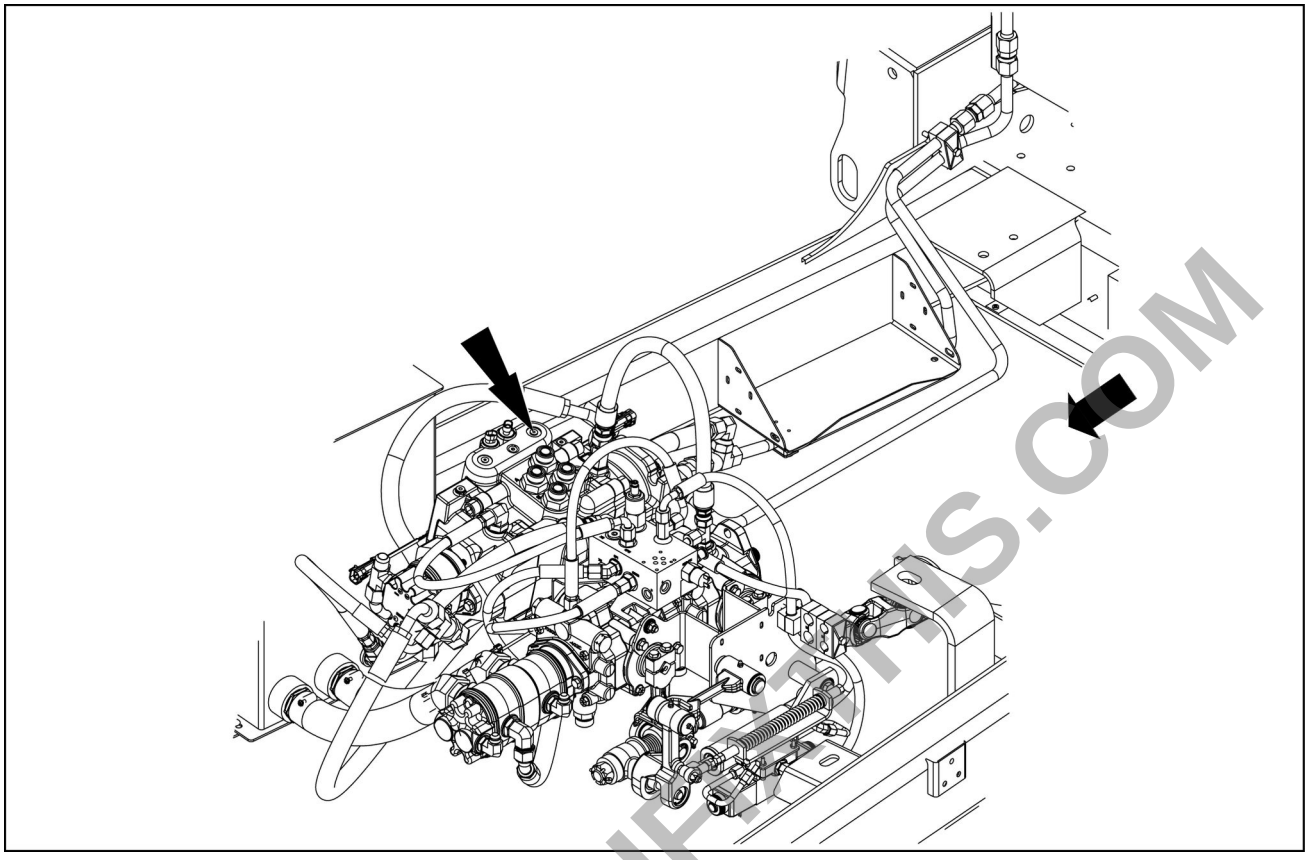


NHIL14WR00233FA 1

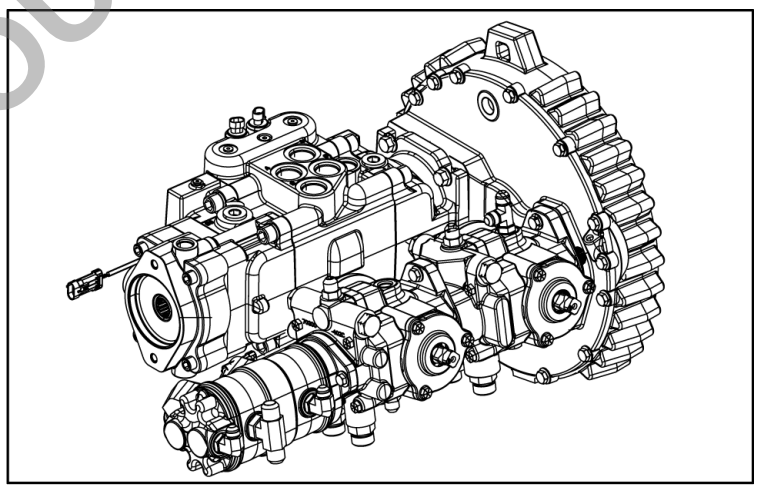
Main lift manifold

Valve	Description of valve	Neutral state	Accumulator charge	Header raise	Header lower	Header tilt forward	Header tilt rearward
Y-003	Left-hand master control valve		X	X	X		X
Y-004	Right-hand master control valve		X	X	X		
Y-001	Right-hand pressure regulator	X	X		X	X	
Y-002	Left-hand pressure regulator	X	X		X	X	X
Y-008	Right-hand accumulator charge		X		X		
Y-007	Left-hand accumulator charge		X		X		
Y-010	Right-hand header lower	X			X	X	X
Y-009	Left-hand header lower	X			X	X	X
Y-006	Right-hand header raise			X			
Y-005	Left-hand header raise			X			
Y-013	Header tilt					X	X

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NHIL14WR01518FA 1



NHIL14WR00204AA 2

Feature	Description
Product series	350 series piston pumps
Displacement, front pump	**49 cm³/rev** (**3 in³/rev**)
Pump type	Dual servo controlled variable displacement axial piston pump
Front pad	SAE four bolt C - type
Input shaft	14 tooth 12/24 pitch spline with extended snap ring grooves
Input rotation	Counterclockwise (CCW)
Valve plate	Standard front valve plate
Front pump A port relief	**345 bar** (**5000 psi**)
Front pump B port relief	**345 bar** (**5000 psi**)
Displacement, rear pump	**49 cm³/rev** (**3 in³/rev**)

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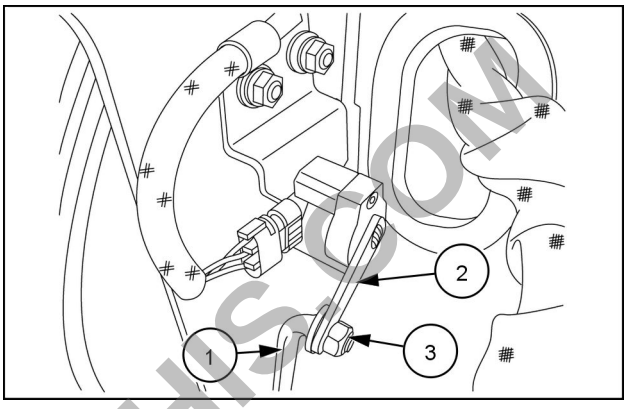
Lift arm position sensor - Draper machines only

WD2104	NA Draper ready - Factory-fitted to accept draper
WD2504	NA Draper ready - Factory-fitted to accept draper

NOTICE: *Do not over-rotate the lift arm position sensors during disassembly or assembly. Failure to comply will result in damage to the lift arm sensors.*

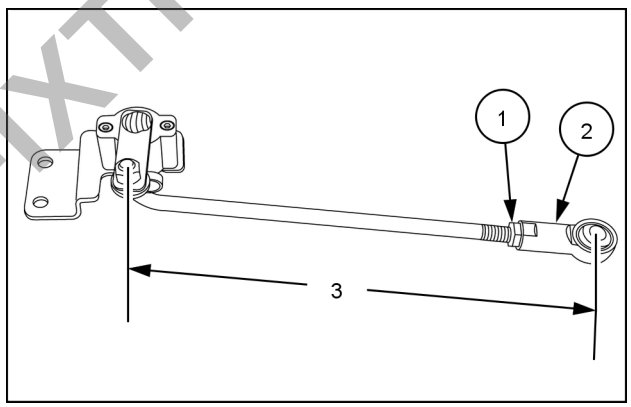
1. Secure rod **(1)** to lever arm **(2)** with **3/8 in** lock nut **(3)**.

NOTE: *Do not overtighten lock nut. Rod must be free to pivot.*



NHIL13WR00117AA 1

2. Adjust rod end **(2)** so that it is parallel with the other end of the rod with axis-to-axis dimension **(3)** of **268 – 274 mm** (**10.6 – 10.8 in**). Tighten hex jam nut **(1)** if adjustment is required.



NHIL13WR00116AA 2

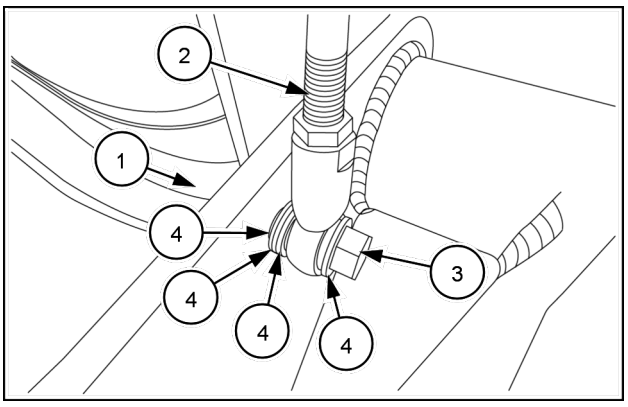
3. Install a **3/8 in** x **1 3/4 in** bolt **(1)** through the lift arm.
4. Install three washers **(4)** onto bolt **(1)** followed by rod **(2)** and one washer **(4)**. Secure with a **3/8 in** lock nut **(3)**.

NOTE: *Do not overtighten lock nut **(3)**. Rod **(2)** must be free to pivot.*

NOTE: *Repeat steps **1** through **4** for the left-hand sensor rod.*

5. A lift arm calibration must be performed for proper operation. Refer to the software operating guide for more details.

NOTE: *A header must be installed to the unit before the lift arm calibration is performed.*



NHIL13WR00118AA 3

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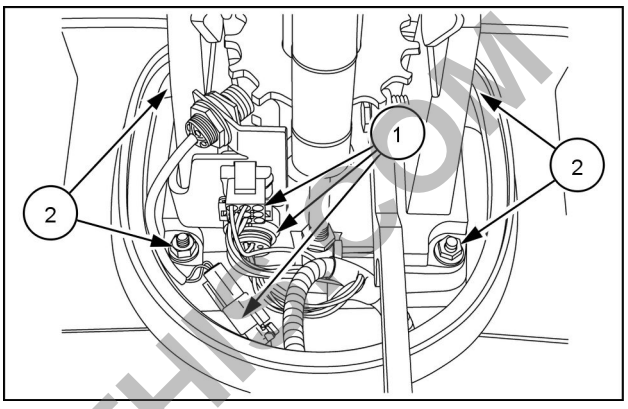
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Steering column - Install

WD2104	NA
WD2504	NA

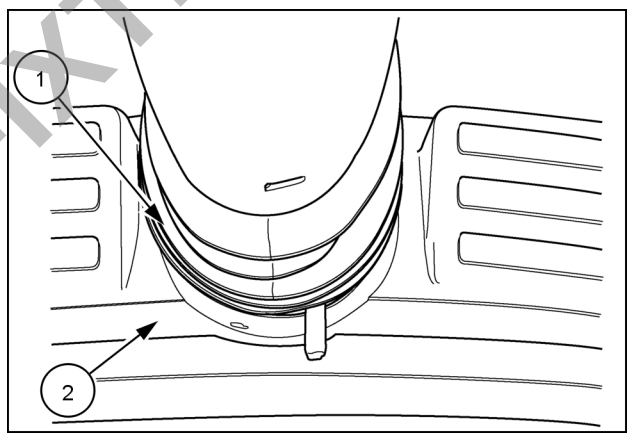
Prior operation:
Steering column - Remove (41.101)

1. Install the steering column assembly into the cab mounting.
2. Secure the column assembly with the four nuts and lock washers **(1)** from removal.
3. Connect the electrical connectors **(2)**.



NHIL15WR00463AA 1

4. Install the boot **(1)** around the cab floor mat **(2)**.



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Ground speeds

Front tires

Front option A	480/80R26 149 R3 turf radial
Front option B	18.4 x 26 cleat R4 12 ply
Front option C	18.4R26 cleat R1 radial
Front option D	21L x 28 cleat R4 14 ply
Front option E	580/70R26 149 R3 turf radial
Front option F	600/65R28 154 R1W radial

Rear tires

Option X	14 L X 16.1 (8 ply) ribbed implement
Option Y	16.5 L X 16.1 (10 ply) ribbed implement

Ground speed

2 Speed configuration	
Option A	
Low range	Up to **21.7 km/h** (**13.5 mph**)
High range	Up to **32.5 km/h** (**20.2 mph**)
Option B	
Low range	Up to **21.2 km/h** (**13.2 mph**)
High range	Up to **31.7 km/h** (**19.7 mph**)
Option C	
Low range	Up to **21.7 km/h** (**13.5 mph**)
High range	Up to **32.5 km/h** (**20.2 mph**)
Option D	
Low range	Up to **22.0 km/h** (**13.7 mph**)
High range	Up to **33.0 km/h** (**20.5 mph**)
Option E	
Low range	Up to **22.5 km/h** (**14.0 mph**)
High range	Up to **33.6 km/h** (**20.9 mph**)
Option F	
Low range	Up to **22.4 km/h** (**13.9 mph**)
High range	Up to **33.5 km/h** (**20.8 mph**)

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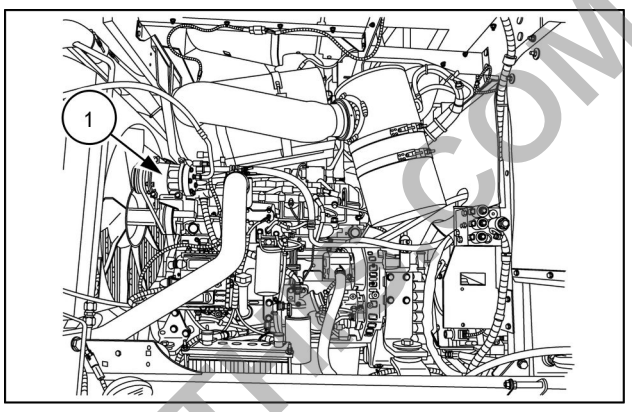
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Air-conditioning compressor - Overview

All components in an air conditioning system are connected by hoses through which refrigerant circulates. To ensure that the system cools the cab properly, each component must be in good operating condition.

Compressor Pump

The air conditioning unit has a compressor pump **(1)** mounted inside the engine compartment that is belt driven by the crankshaft pulley.



NHIL14WR00293AA 1

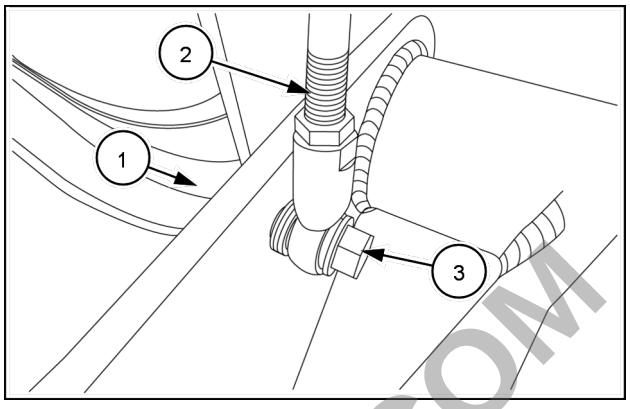
The compressor separates the low and high pressure sides of the system and has two functions:

1. To raise the refrigerant pressure and temperature by compression to a higher pressure and temperature than the outside air.
2. To circulate the required volume of refrigerant through the system.

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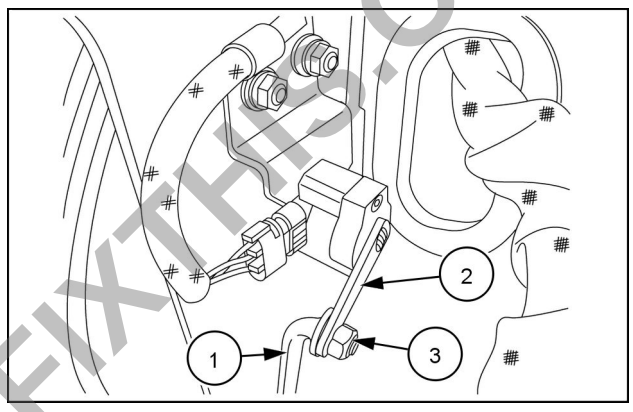
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2. Remove the retaining bolt **(1)** and the lock nut **(3)** through the lift arm **(2)**.



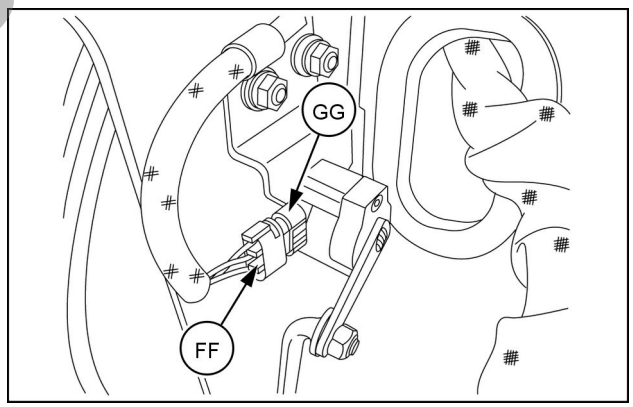
NHIL13WR00118AA 4

3. Remove lock nut **(3)** to detach the rod **(1)** from the lever arm **(2)**.

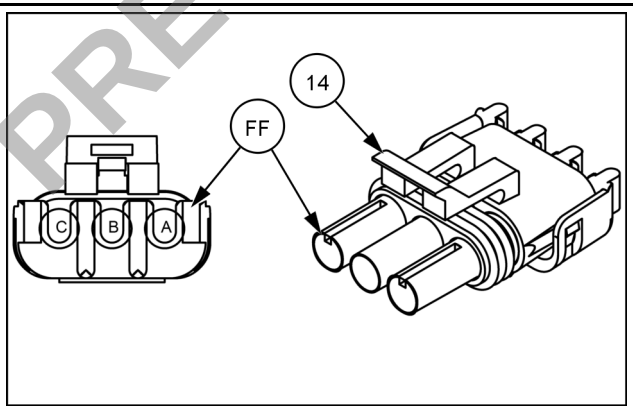
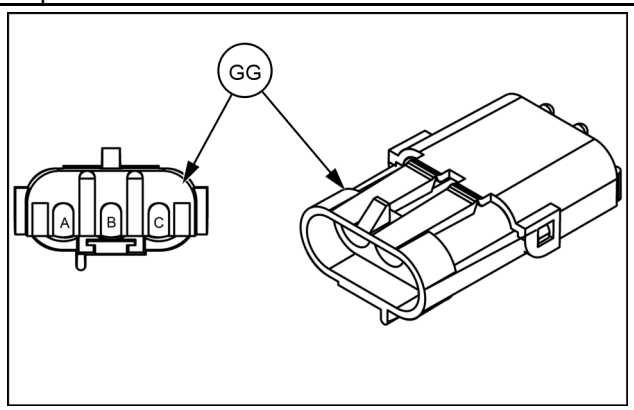


NHIL13WR00117AA 5

4. Disconnect the electrical connector
   A. Slightly lift the connector clip **(14)** on the electrical (female) connector **(FF)**.
   B. Pull the electrical (female) connector **(FF)** from the electrical (male) connector **(GG)**.



NHIL13WR00117AA 6

Electrical harness side	Component side
	
87644909 7	87692858 8

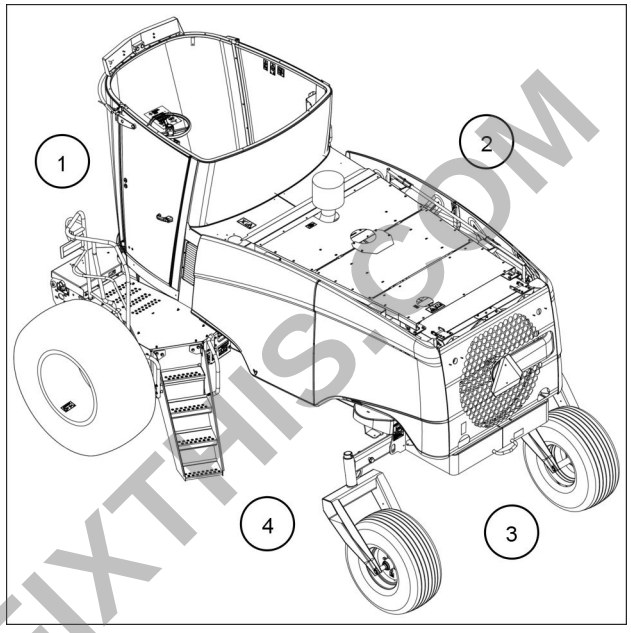
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Electrical system - Component localization - Battery / Alternator / Starter / Hydraulic manifolds / Engine exhaust

WD2104	NA
WD2504	NA

Machine orientation

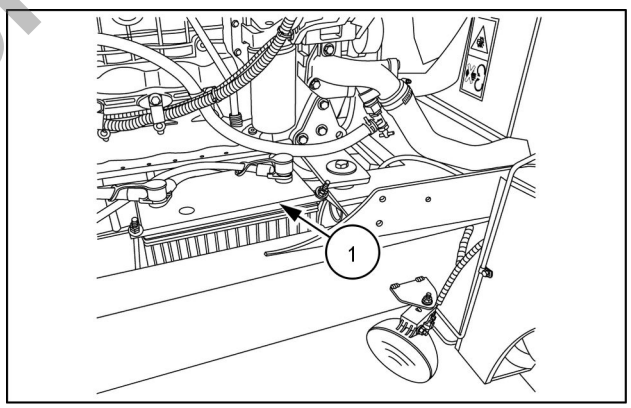
- Front of the machine **(1)**
- Right-hand side of the machine
- Rear of the machine
- Left-hand side of the machine



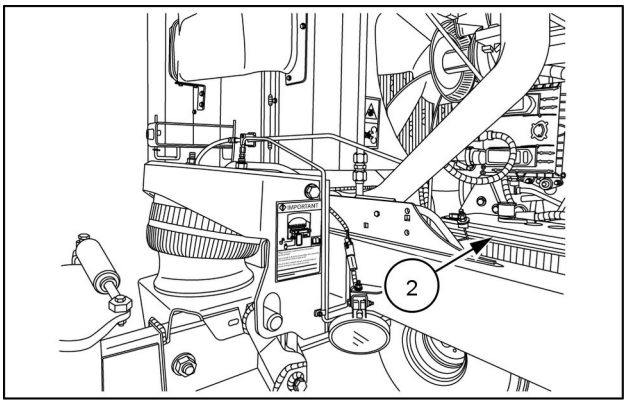
NHIL14WR00025GA 1

There are two batteries located on the machine.

- Battery, left G-002 **(1)**
- Battery, right G-003 **(2)**



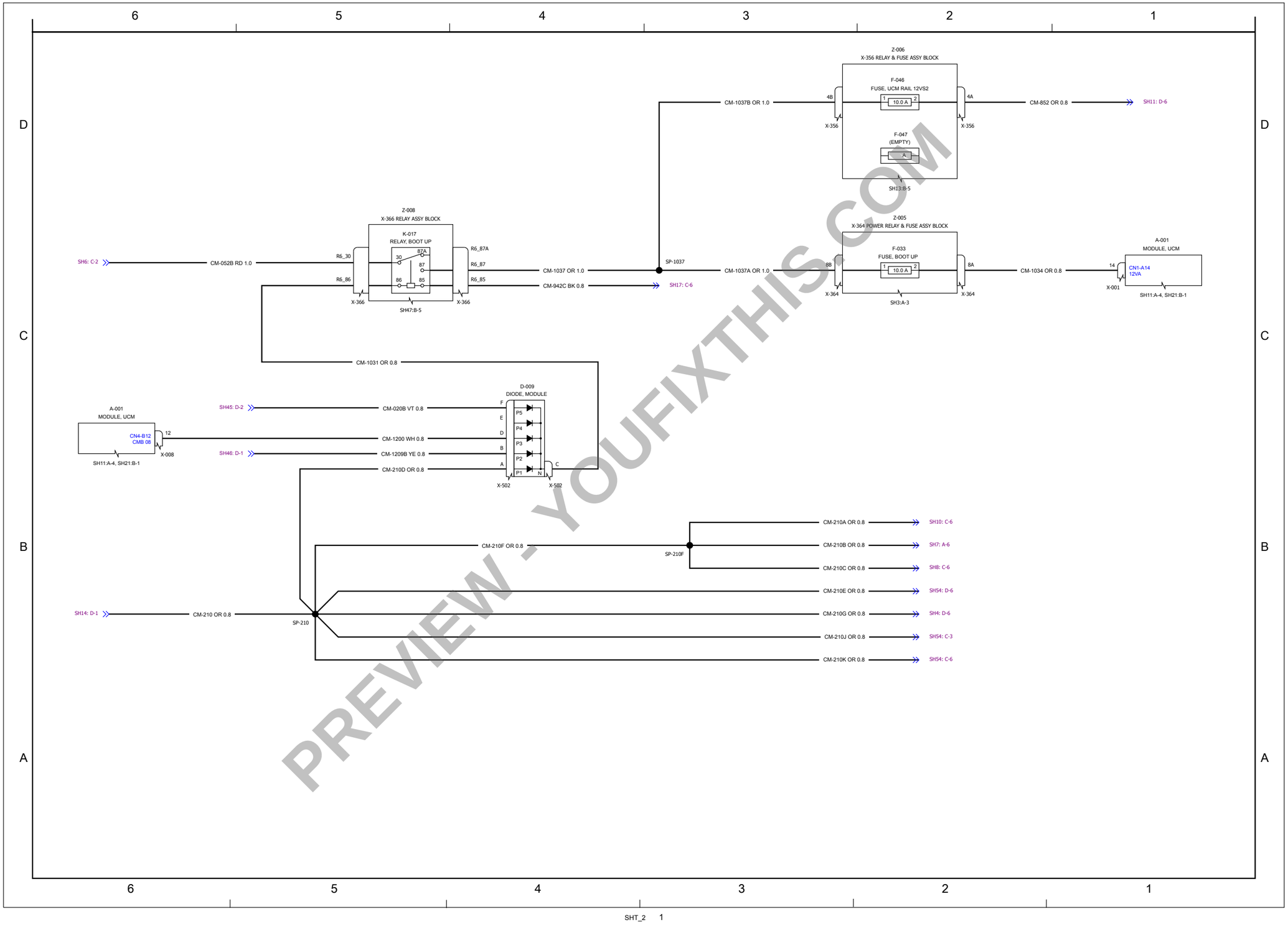
NHIL14WR10355AA 2



NHIL14WR00289AA 3

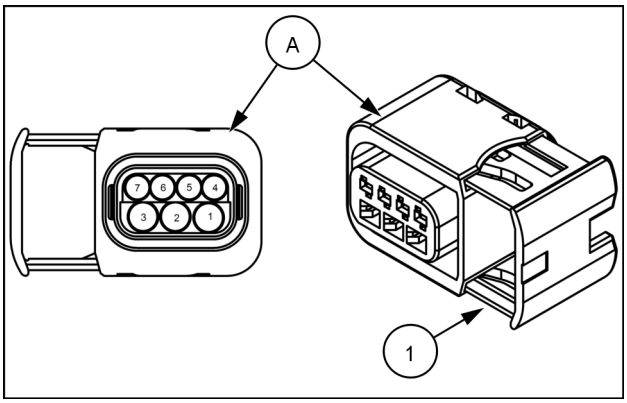
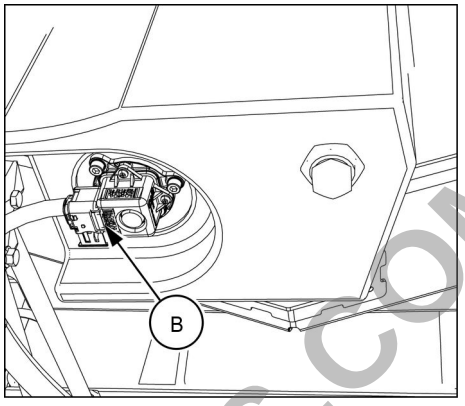
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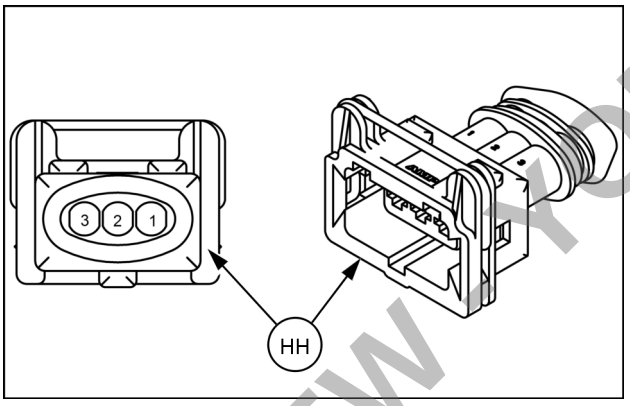
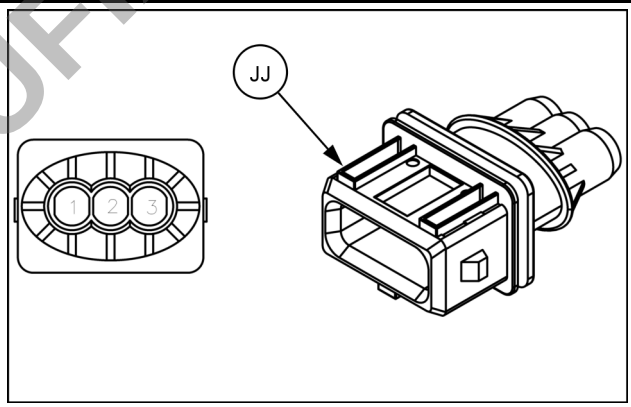


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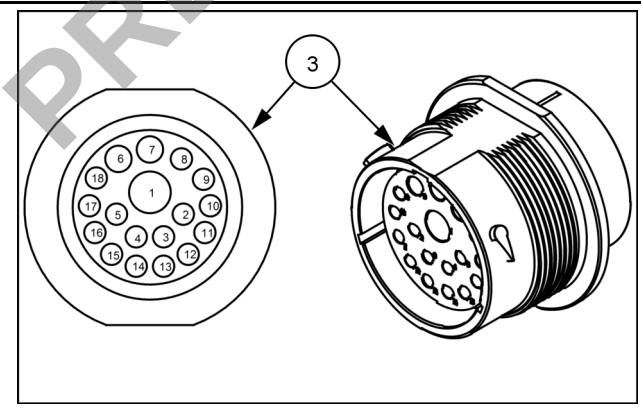
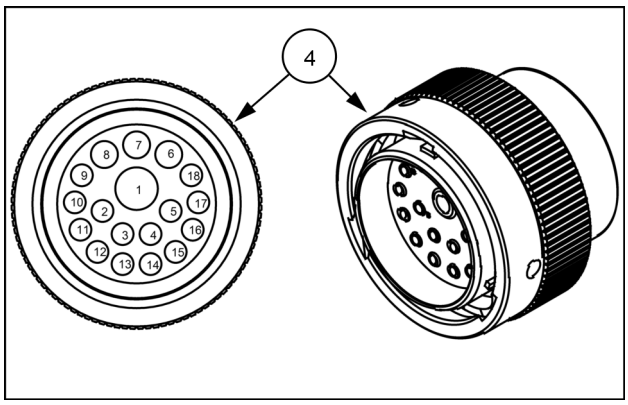
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Electrical harness side	Component side
 84152563 6	***NOTE:*** *This image serves as a representation of the female - male connector connection.*  NHIL14AF00994AA 7

6. Disconnect the electrical connector
   A. Slightly lift the connector clip **(15)** on the electrical (female) connector **(HH)**.
   B. Pull the electrical (female) connector **(HH)** from the electrical (male) connector **(JJ)**.

Electrical harness side	Component side
 84806091 8	 47663143 9

7. Disconnect the electrical connector.
   1. Twist and pull the electrical (female) connector **(3)** from the electrical (male) connector **(4)**.

Electrical harness side	Component side
 47699051 10	 47629691 11

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A### - Alarm codes

WD2104 Tier 4b (final) [YGG677501 -]	NA

Context:
Alarm codes shown below cover all machines. Some codes shown may not appear on your machine due to specific build.

Possible failure modes:

-

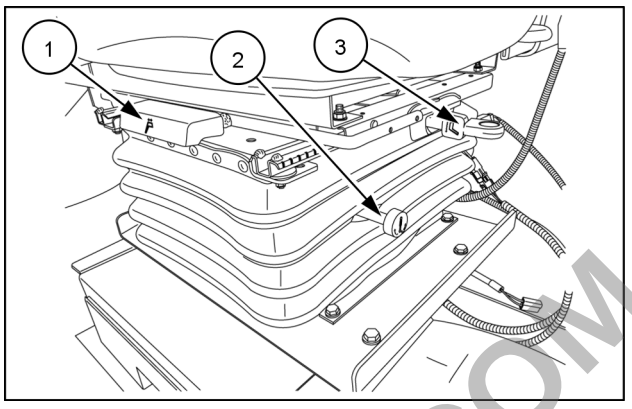
AFS Pro 700 alarms		4-line display alarms		Priority	Explanation
ID	Text shown on display monitor	ID	Text shown on 4-line display		
A001	Engine Oil Pressure	W01	ENG OIL PRES LOW	3	The Engine Oil Pressure is too low.
A002	Engine Coolant Overheat	W02	ENGINE OVERHEAT	3	Engine Coolant temperature is too high. Check coolant level. Service engine cooling air intake system and/or heat exchangers.
A003	Hydraulic Charge Pressure Low	W03	HYD CHARGE PRES LOW	3	The Hydraulic charge pressure is too low
A003	Hydraulic Charge Pressure Low		CHK CHARGE PRESSURE	2	The Hydraulic charge pressure is too low
A004	Operator Out of Seat	W04	OUT OF SEAT	3	The operator is out of the seat. The PTO will disengage in 4 seconds.
A005	Air Filter Clogged		AIR FILTER CLOGGED	2	Intake air filter flow is restricted. Service engine air filter(s) at earliest convenience.
A006	Hydraulic Oil Overheat		HYD OIL OVERHEAT	2	Hydraulic oil temperature is high. Service engine cooling air intake system and/or heat exchangers.
A007	Hydraulic Oil Level Low		HYD OIL LEVEL LOW	2	Check oil level in hydraulic resiorvior
A008	Set Park Brake		SET PARK BRAKE	1	Set park brake switch before starting
A009	Sit in Seat		SIT IN SEAT	2	Operator is out of seat.
A010	Cycle PTO Switch		CYCLE PTO SWITCH	2	A fault on the pto switch occurred. Disengage PTO switch and reengage when ready.
A011	Increase Engine Rpm		INCREASE ENGINE RPM	2	Engine RPM is lower than threshold. Increase engine RPM.
A012	Header Removal Mode		HEADER REMOVAL MODE	1	Header removal mode is active
A014	Multi-Function Handle Out Of Neutral		MFH OUT OF NEUTRAL	2	Move the lever to neutral position.
A016	Header RPM Sensor		HEADER RPM SENSOR?	2	Check the installation and wiring of the header RPM sensor. For additional information refer to electrical schematics.
A017	Cycle Merger Switch		CYCLE MERGER SWITCH	2	Recycle the merger switch.
A020	Merger Configuration Fault		MERGER CONFIG FAULT	2	Check the Toolbox > Options Tab to make sure the merger is installed and verify the merger has been calibrated.
A022	Custom Header Width Fault		CUST HDR WIDTH FLT	2	Check and / or reset the proper header cut width.
A025	Header Type Fault		HEADER TYPE FAULT	2	Check the Toolbox, Head Tab to verify the correct Header type is selected.

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Forward and rearward

Lift the lever **(1)** to move the seat forward or rearward. Release the lever to lock the seat in place. The lever can also be used to move the seat rearward to provide more space when exiting the windrower.



NHIL12WR00336AA 4

Adjustable damper control

This adjustment can help to control seat bouncing in rough terrain.

1. Turn the knob **(2)** counter-clockwise for a firmer ride.
2. Turn the knob clockwise to provide a softer ride.

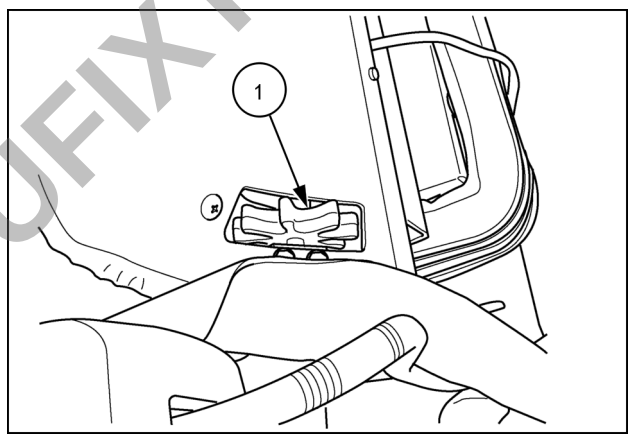
Fore/Aft isolator

The seat can float a short distance forward or rearward when the isolator lever **(3)** is DOWN. With the isolator lever in the UP position, the seat does not float. The float position absorbs shocks and reduces operator fatigue when traveling over rough terrain.

Lumbar support

The lumbar wheel **(1)** is located behind the seat on the left side.

Rotate the wheel up to increase the lumbar support. Rotate the wheel down to decrease the lumber support.



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