Fire extinguisher kits (Optional – available from your Service Parts dealer)

The fire extinguisher kit provides a means of mounting a fire extinguisher in a readily accessible location on the front right-hand side of the baler for emergency use on fires involving ordinary combustibles, such as crop material or residue, wood, cloth, and paper.

Each kit installs with standard hand tools, and no drilling or welding is required.

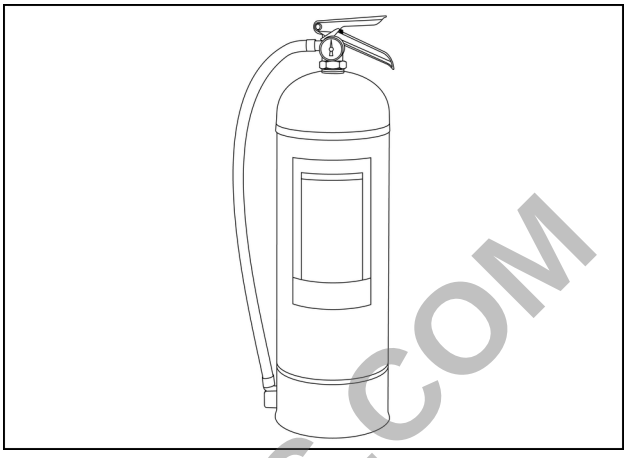
NOTE: *The portable extinguisher is an extinguisher that is extremely effective, simple to use, inexpensive, and easy to recharge. The extinguisher has a* ***9.46 l*** *(****2.5 US gal****) capacity, and uses air or nitrogen as an expellant. The cylinder and handle/lever material is of stainless steel. The valve assembly material is brass.*

⚠ WARNING

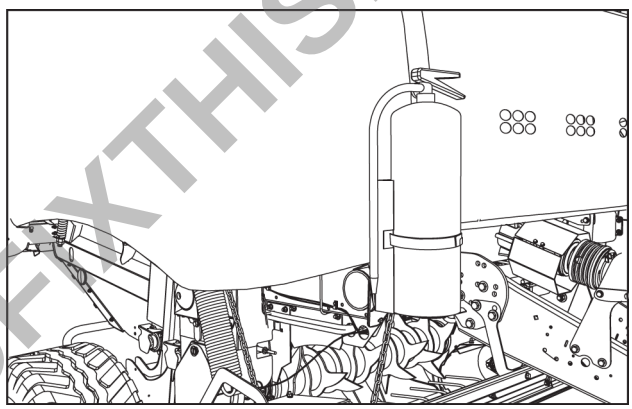
Equipment failure could cause accident or injury!
The supplied fire extinguisher must be serviced according to the instructions in this manual.
Failure to comply could result in death or serious injury.

W1162A

NOTICE: *Failure to have the extinguisher professionally serviced may result in the extinguisher not operating properly or safely as a fire fighting tool for Class A type fires. The supplied fire extinguisher is NOT charged and is NOT functional to extinguish fires until the following is completed. Have the fire extinguisher inspected, serviced, charged, and maintained by a trained professional and in accordance to the requirements of local authorities having jurisdiction.*



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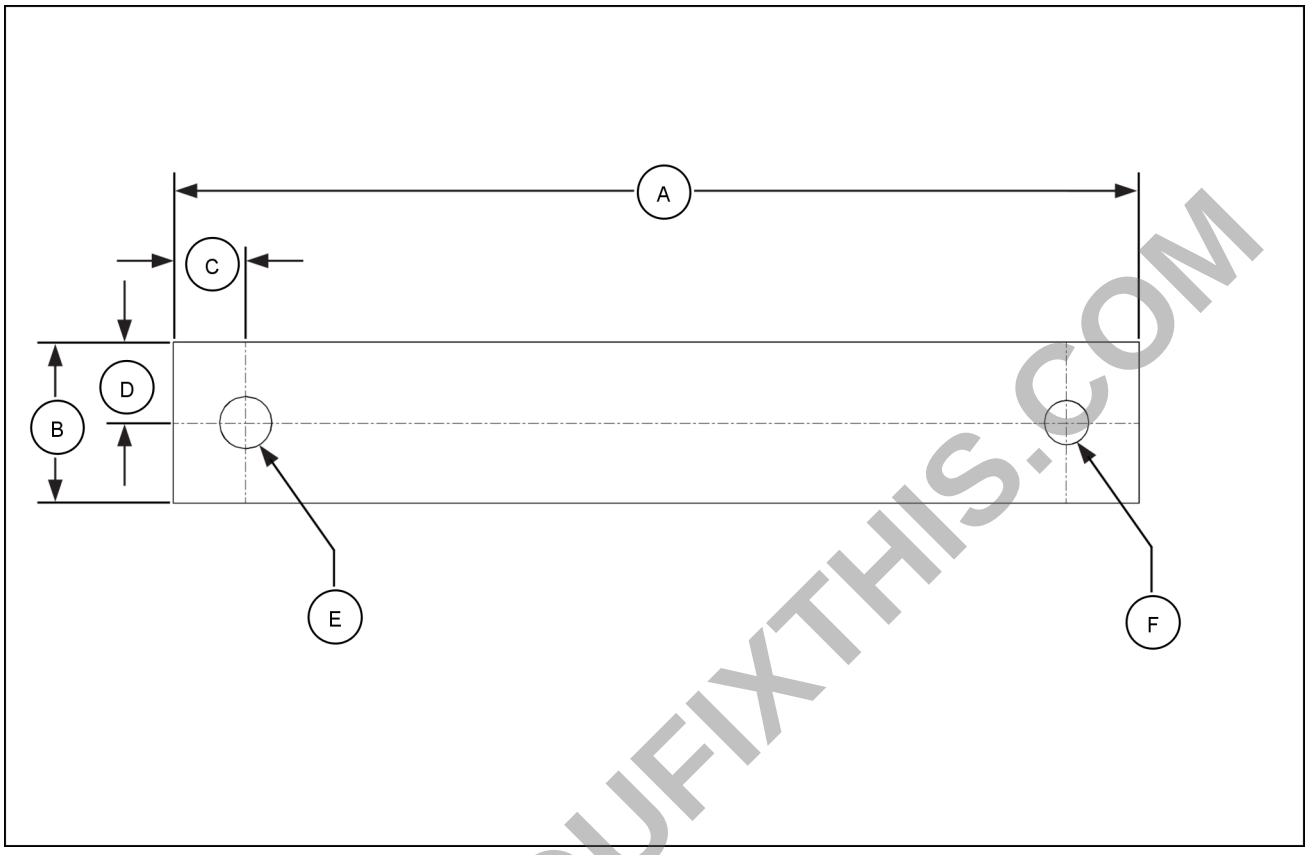


NHVM12RB00357AA 4

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Rotor knife carriage strap tool



NHIL13RB03267FA 3

Item	Description	Dimension
(A)	Length, plate	**240 mm** (**9.45 in**)
(B)	Width, plate	**40 mm** (**1.57 in**)
(C)	Hole, distance from end	**20 mm** (**0.79 in**)
(D)	Hole, distance from side	**18 mm** (**0.71 in**)
(E)	Hole, drilled, to accept a M12 x 90 flange bolt	**13 mm** (**0.51 in**)
(F)	Hole, drilled, to accept a M10 x 25 flange bolt	**11 mm** (**0.43 in**)

Required materials

- Qty 2 – Plate, 40 mm x 240 mm x 4.76 mm
- Qty 2 – Spacer, **66.7 mm** (**2-5/8 in**)
- Qty 2 – Spacer, **63.5 mm** (**2-1/2 in**)
- Qty 2 – Bolt, flange, M12 x 90
- Qty 2 – Bolt, flange, M10 x 25
- Qty 2 – Nut, flange, M12
- Qty 2 – Nut, flange, M10

Assembly

1. Cut two plates to the dimensions shown in Figure **3**.
2. Drill two holes **(E)** and **(F)** at the positions shown in Figure **3**.

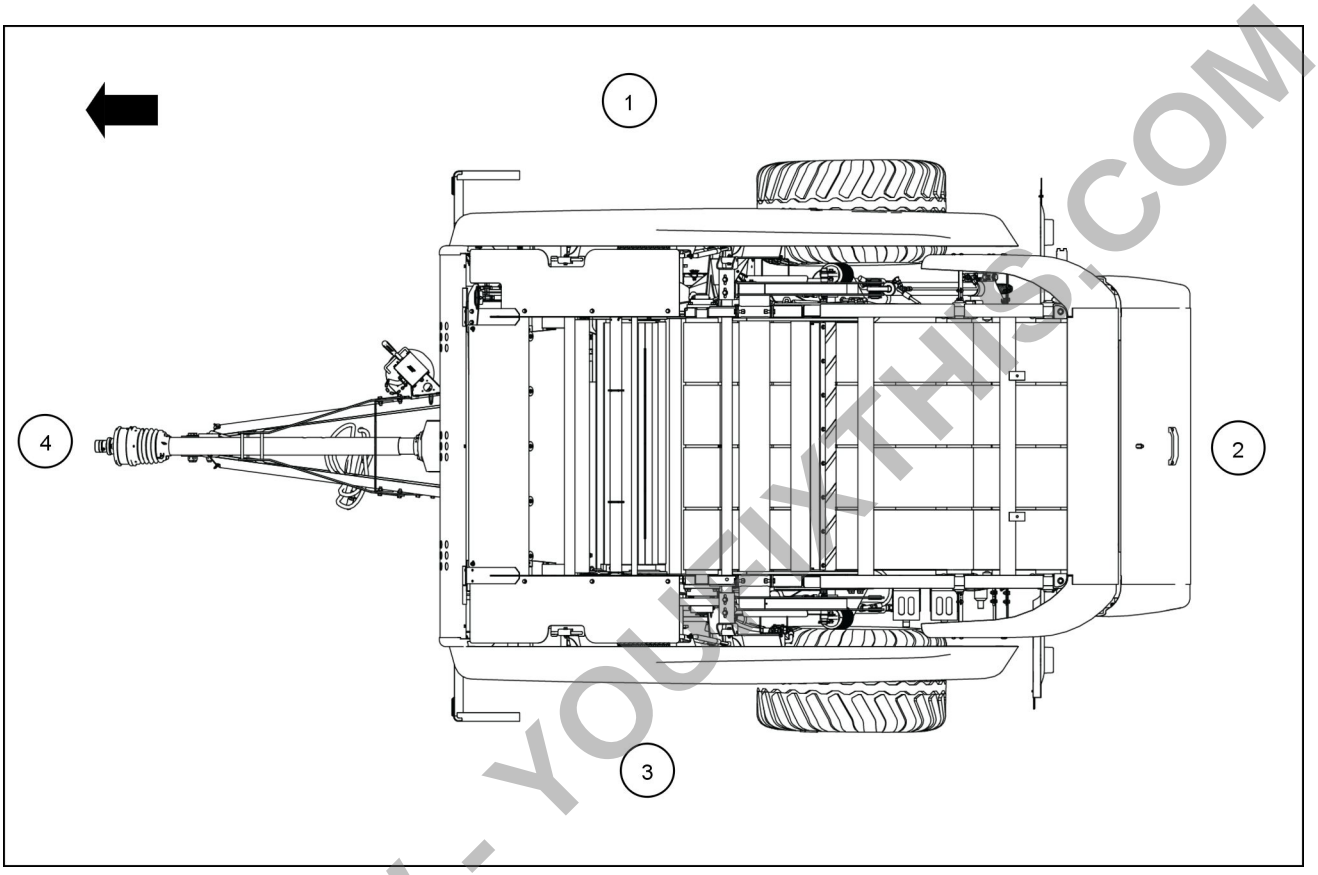
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Product identification - Machine orientation

NOTE: *Throughout this service manual, references to right-hand and left-hand sides of the machine are determined by standing at the rear of the machine and facing the normal direction of travel.*

The following overhead view illustration is a general representation of the baler indicating the sides, front, and rear orientations of the baler as referred to through out this manual relevant to the normal direction of travel during working operations.



NHIL13RB02814AA 1

Overhead view of the baler

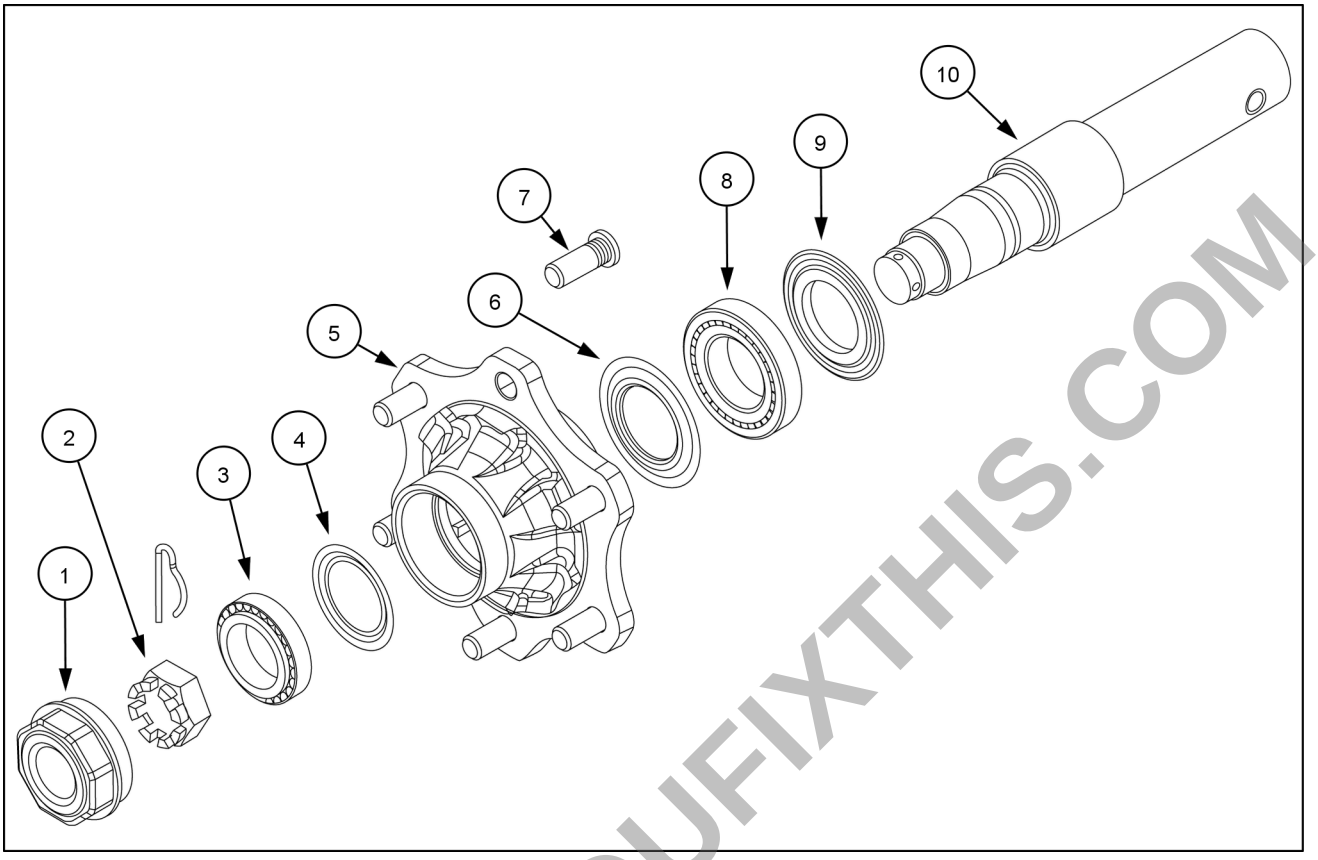
NOTE: *The arrow indicates the baler direction of travel during normal working operations.*

(1) Right-hand side of the machine
(2) Rear of the machine
(3) Left-hand side of the machine
(4) Front of the machine

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NOTE: *This wheel hub has six wheel studs and can be used to mount 380/55–17 and 480/45–17 size tires.*



NHIL13RB00775FA 2

6-stud wheel hub – Exploded view

(1) - Wheel cap
(2) - Nut, castellated, M48
(3) - Bearing
(4) - Seal
(5) - Hub, 6-stud
(6) - Stud, wheel, M18
(7) - Seal
(8) - Bearing
(9) - Seal
(10) - Spindle

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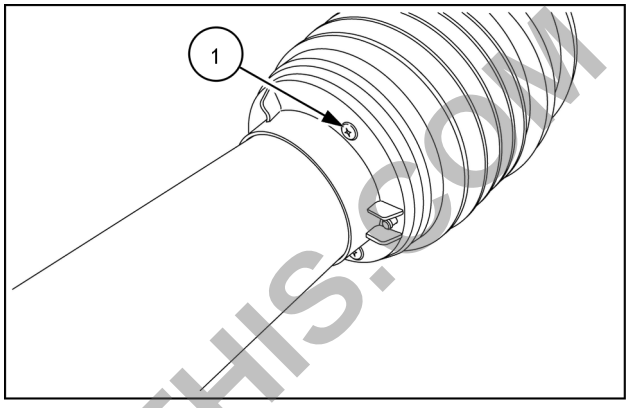
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Power Take-Off (PTO) drive shaft - Disassemble

Prior operation:
Power Take-Off (PTO) drive shaft - Remove (31.201)

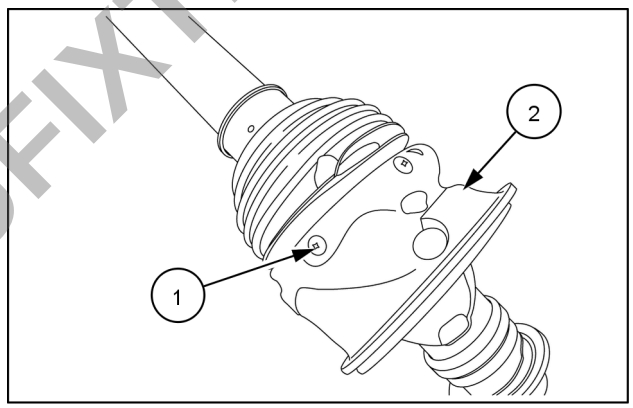
NOTE: *This procedure shows the disassembly and assembly of a Power Take-Off (PTO) shaft with a friction slip clutch.*

1. On the front PTO shaft, remove the three screws **(1)** that connect the base cone to the shield.
2. Slide the two halves of the PTO shaft apart.



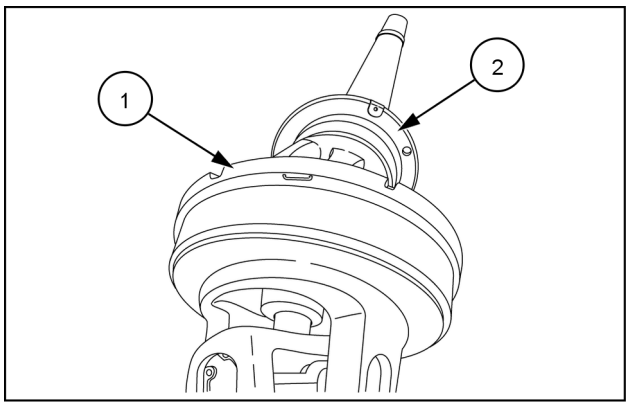
NHIL13RB01788AA 1

3. Remove the six screws **(1)** from the shield **(2)**.
4. Remove the shield.



NHIL13RB00161AA 2

5. Remove the nylon rings **(1)** and **(2)**.



NHIL13RB01791AA 3

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Clutches - Overview

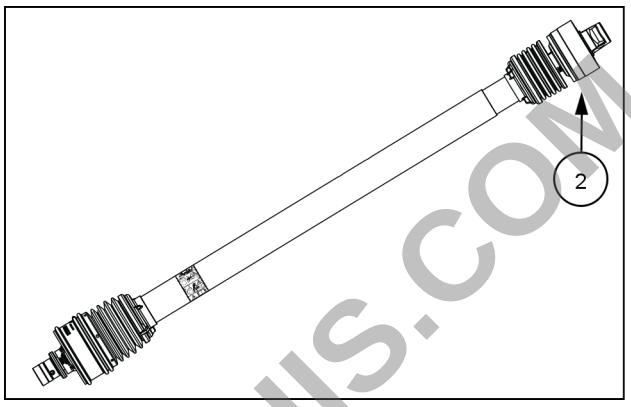
A clutch is a device that limits the amount of torque that can be put through a driveline, which helps prevent machine damage.

NOTE: *Use the images and explanations below to identify the type of clutch that is on your baler.*

Cut-out clutch

A cut-out clutch **(2)** is a torque limiting device that completely cuts off the power to the driveline if the transmitted torque exceeds the rated torque of the clutch.

A cut-out clutch will only function once it is reset when the clutch drive reaches **0 RPM**.

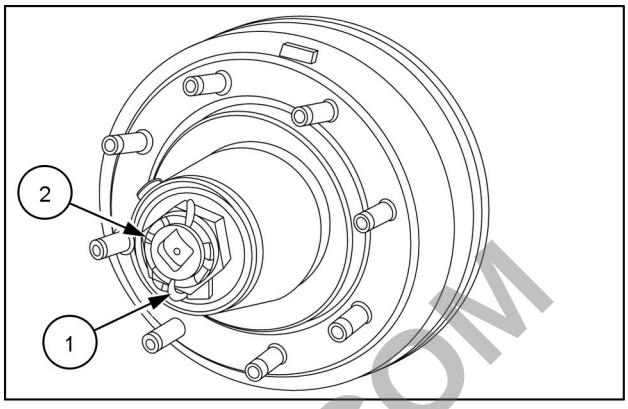


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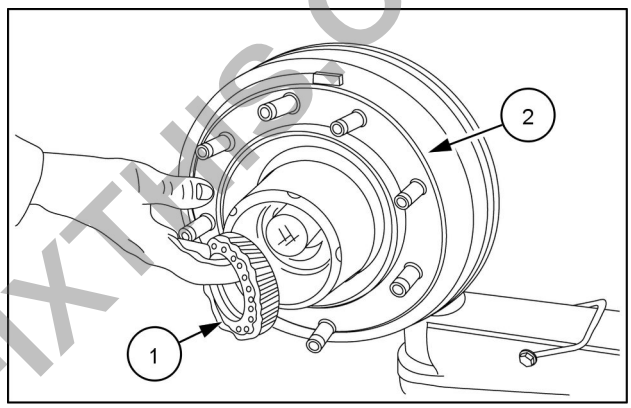
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6. Remove the wheel clip **(1)**.
7. Remove the castellated nut **(2)**.



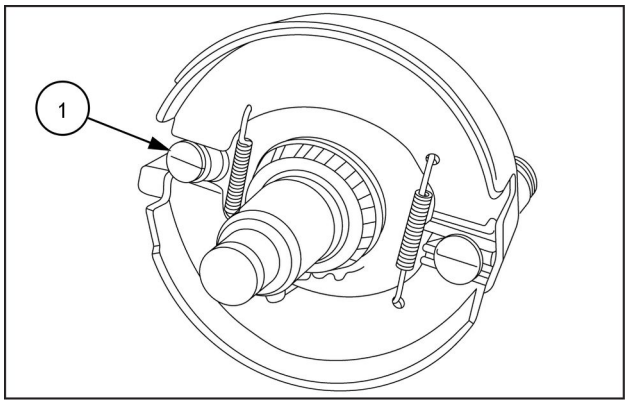
NHIL13RB03452AA 4

8. Remove the cone **(1)** of the outer bearing.
9. Pull off the brake drum **(2)**.



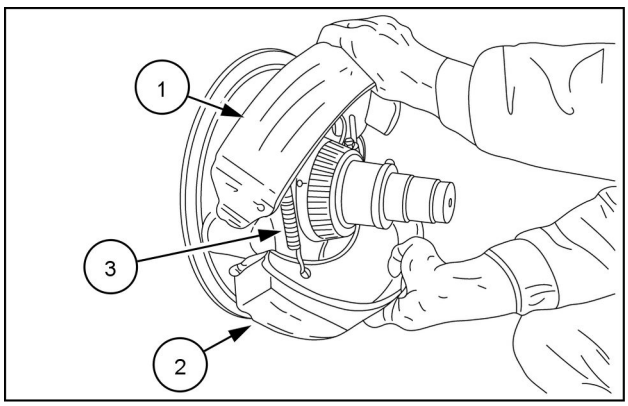
NHIL13RB03453AA 5

10. Remove the nut and lock washer at the brake pivot **(1)**.



NHIL13RB03454AA 6

11. Remove the brake shoes **(1)** and **(2)**.
12. Remove the springs **(3)** from the brake shoes.



NHIL13RB03466AA 7

Next operation:
Brakes - Inspect (33.202)

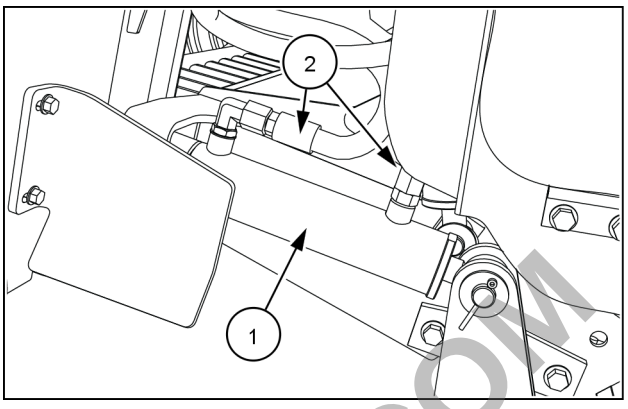
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(E) Cutter control circuit

(1) – Hydraulic cylinder (right-hand side shown)

(2) – Hydraulic hoses



NHIL13RB00930AA 6

Information type	Location
Technical data	**Cutter control circuit - General specification (35.565)**
Functional data	**Cutter control circuit - Overview (35.565)**

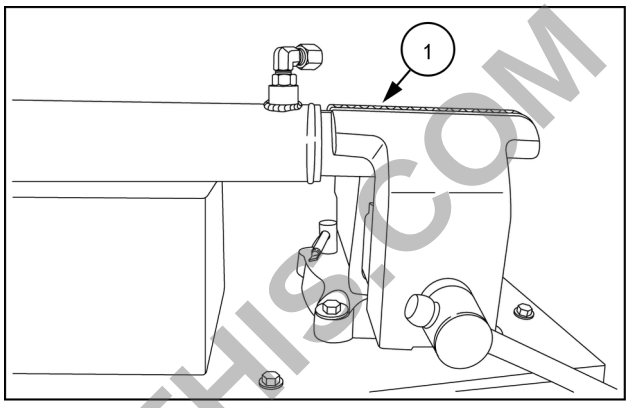
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Cylinder - Disassemble

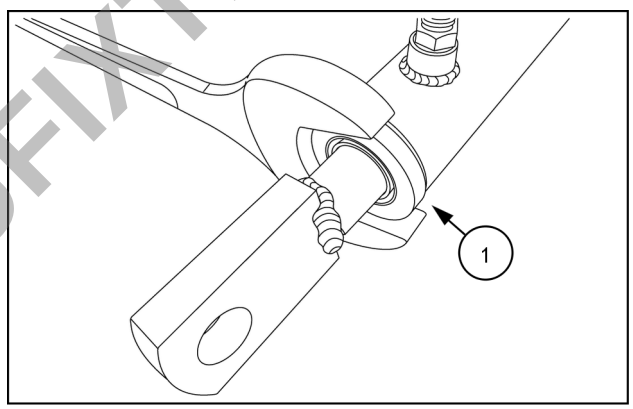
Prior operation:
Cylinder - Remove (35.550)

1. Clean the cylinder assembly to reduce the possibility of damage to the cylinder components.
2. Clamp the cylinder base **(1)** in a vice.



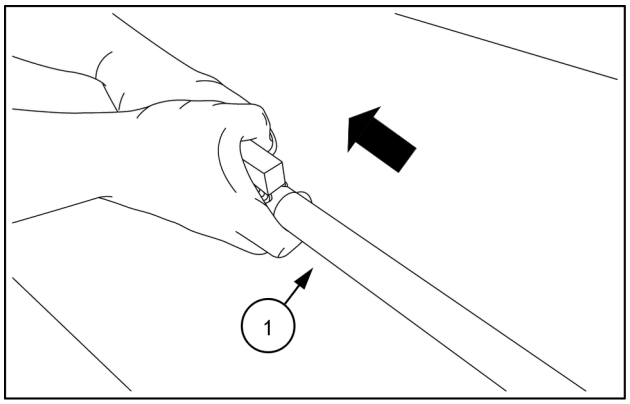
NHIL13RB02268AA 1

3. Unscrew the cylinder head **(1)**.



NHIL13RB02269AA 2

4. Remove the rod and head by grabbing the rod end **(1)** and pulling rapidly to free assembly from the cylinder.



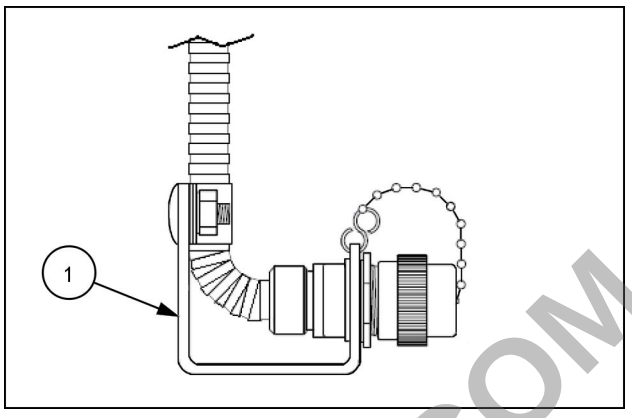
NHIL13RB02245AA 3

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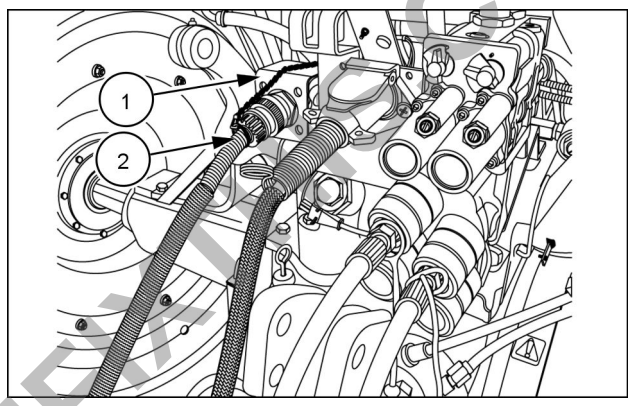
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Wire harness connector bracket

The wire harness connector bracket **(1)** is mounted on the rear of the tractor to connect the tractor-to-baler wire hrness **(2)** to the baler's wrapping control system wire harness.



23095557 8



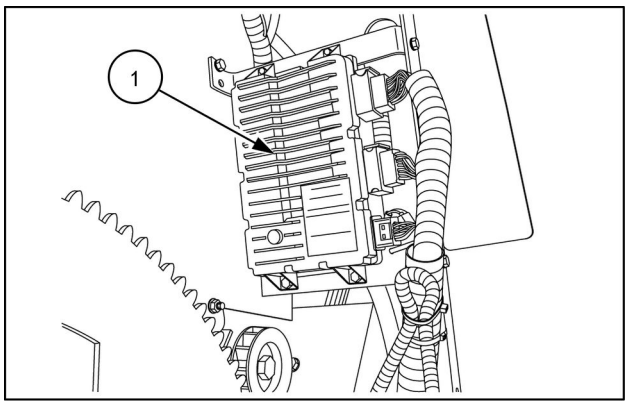
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Baler mounted components

H-Bridge control module

The H-Bridge control module **(1)** drives the various motors and solenoids on the baler.

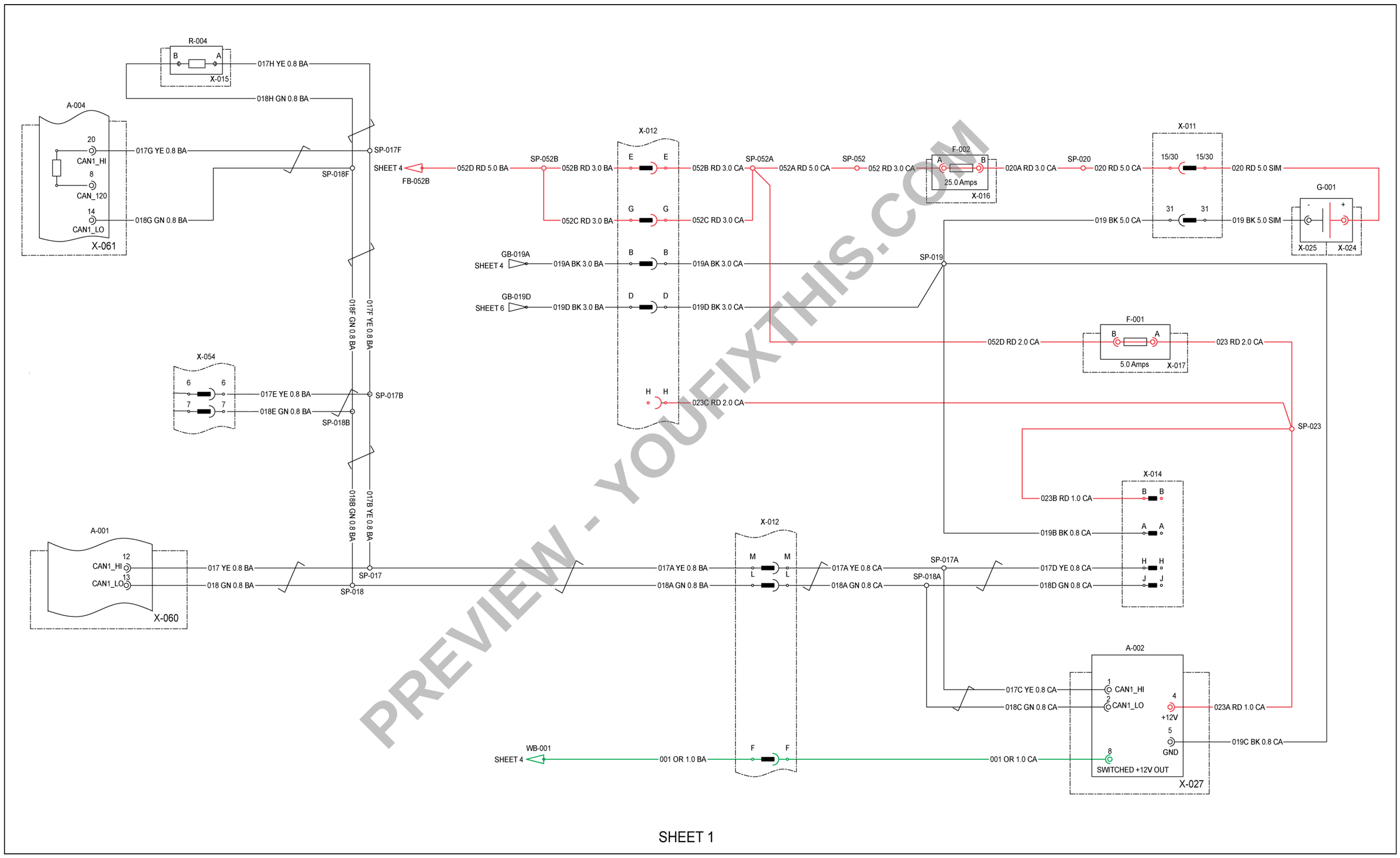
The H-Bridge control module is located under the right-hand door shield mounted in the upper right-hand area adjacent to the frame side sheet.



NHIL12RB00402AA 10

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SHEET 1

NHIL13RB13800AA 1

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Twine and net cutting and tying or wrapping - Dynamic description - Net knife (net option)

The net knife motor **M-004** is controlled by the H-Bridge module **A-004**. The H-Bridge module will supply voltage to one end of the circuit, and ground the other end of the circuit to operate the net knife to the cut position. When the net knife is done, the H-Bridge with reverse the supply voltage and ground circuit to return the net knife back to the home position.

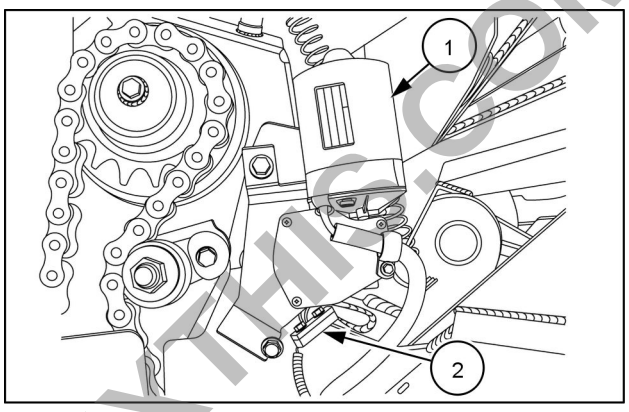
The H-Bridge module **A-004** supplies the knife home position switch **S-009** with **12.0 V**. The control module **A-001** monitors the switch position if it is open or closed. The circuit is closed when the net knife is home.

Net knife motor

The motor **(1)** is located behind the right-hand door shield and mounted on the frame side sheet.

Net knife home sensor switch

The net knife home sensor switch **(2)** is located below the net knife motor.



NHIL12RB00501AA 1

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Electrical systems - 55

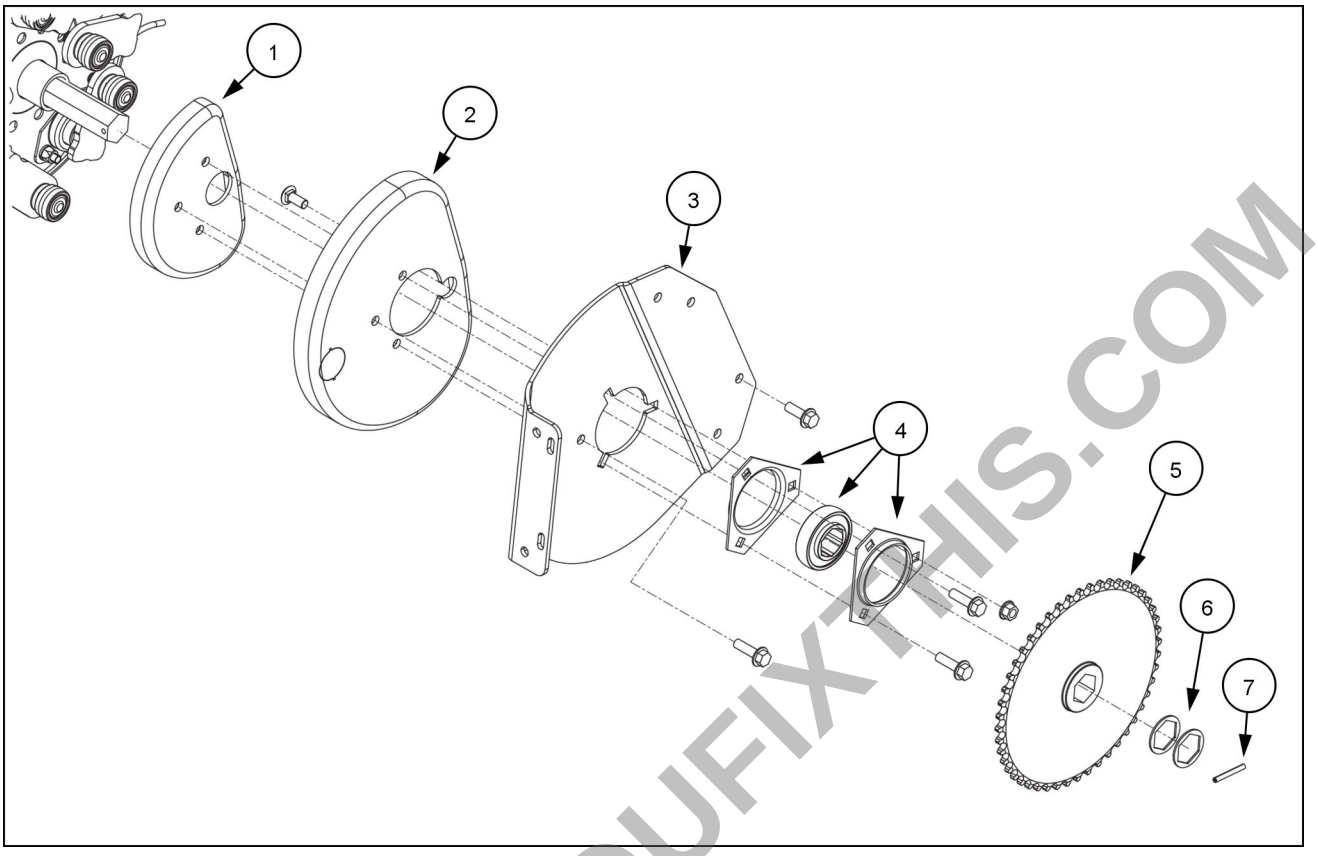
FAULT CODES - DTC

Roll-Belt 150
Roll-Belt 180

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Pickup reel - Exploded view



NHIL13RB02468FA 1

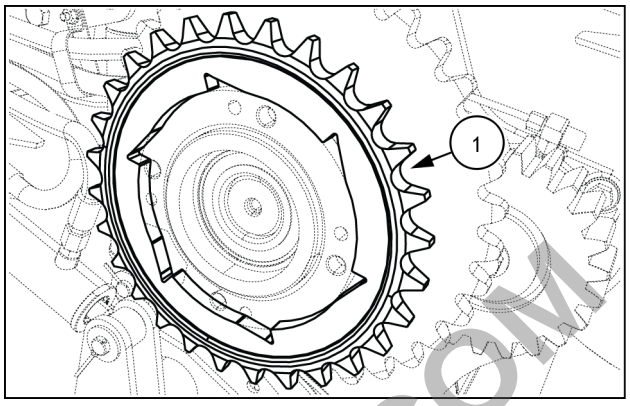
Pickup reel – Exploded view

(1) - Cam track, inner
(2) - Cam track, outer
(3) - Pickup reel side sheet
(4) - Bearing flangette set
(5) - Sprocket
(6) - Shims
(7) - Roll pin

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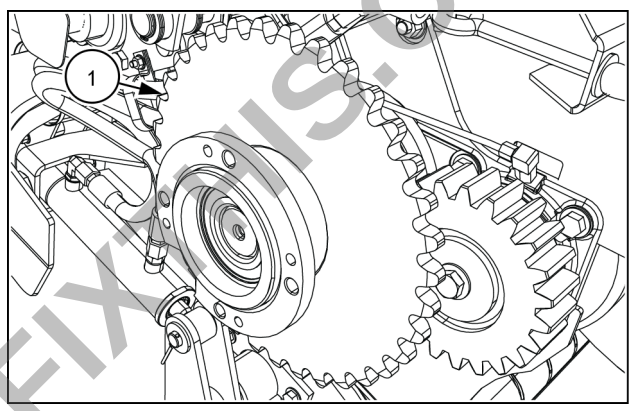
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7. Remove the outer rotor reverser sprocket **(1)**.



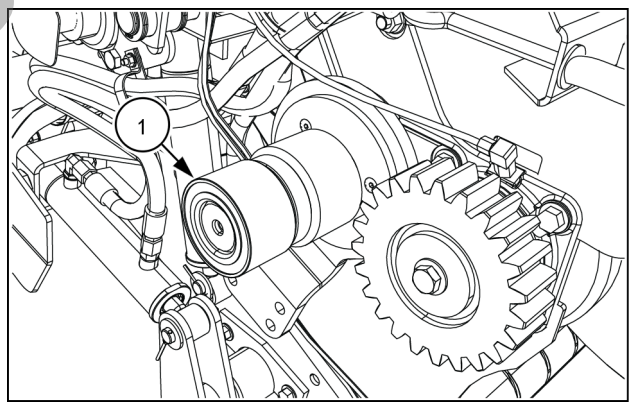
NHIL13RB02349AA 7

8. Remove the inner rotor reverser sprocket **(1)**.



NHIL13RB02352AA 8

9. Remove the angular contact bearing **(1)** if it was not removed with the inner rotor reverser sprocket.



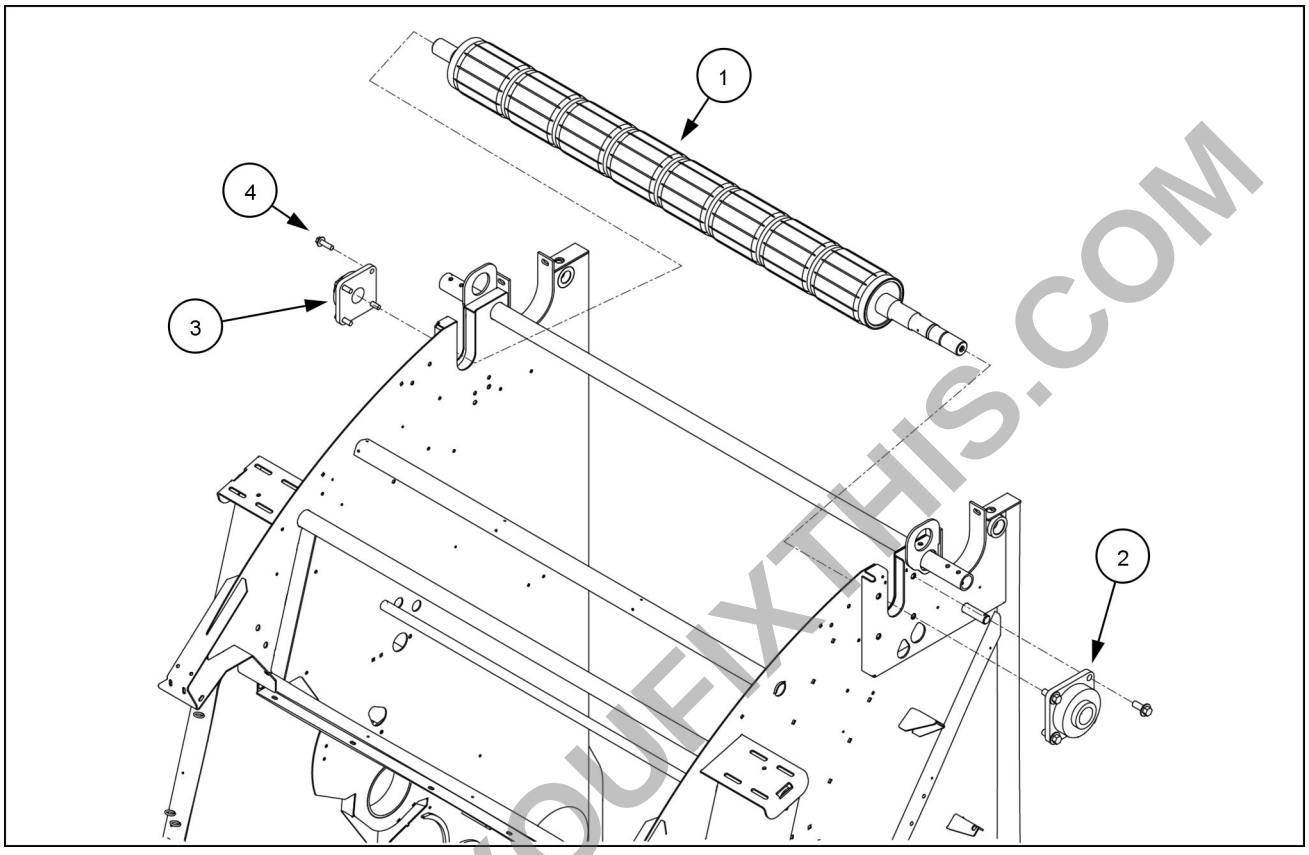
NHIL13RB02353AA 9

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Bale forming rolls - Exploded view

Drive roll



NHIL13RB01322FA 1

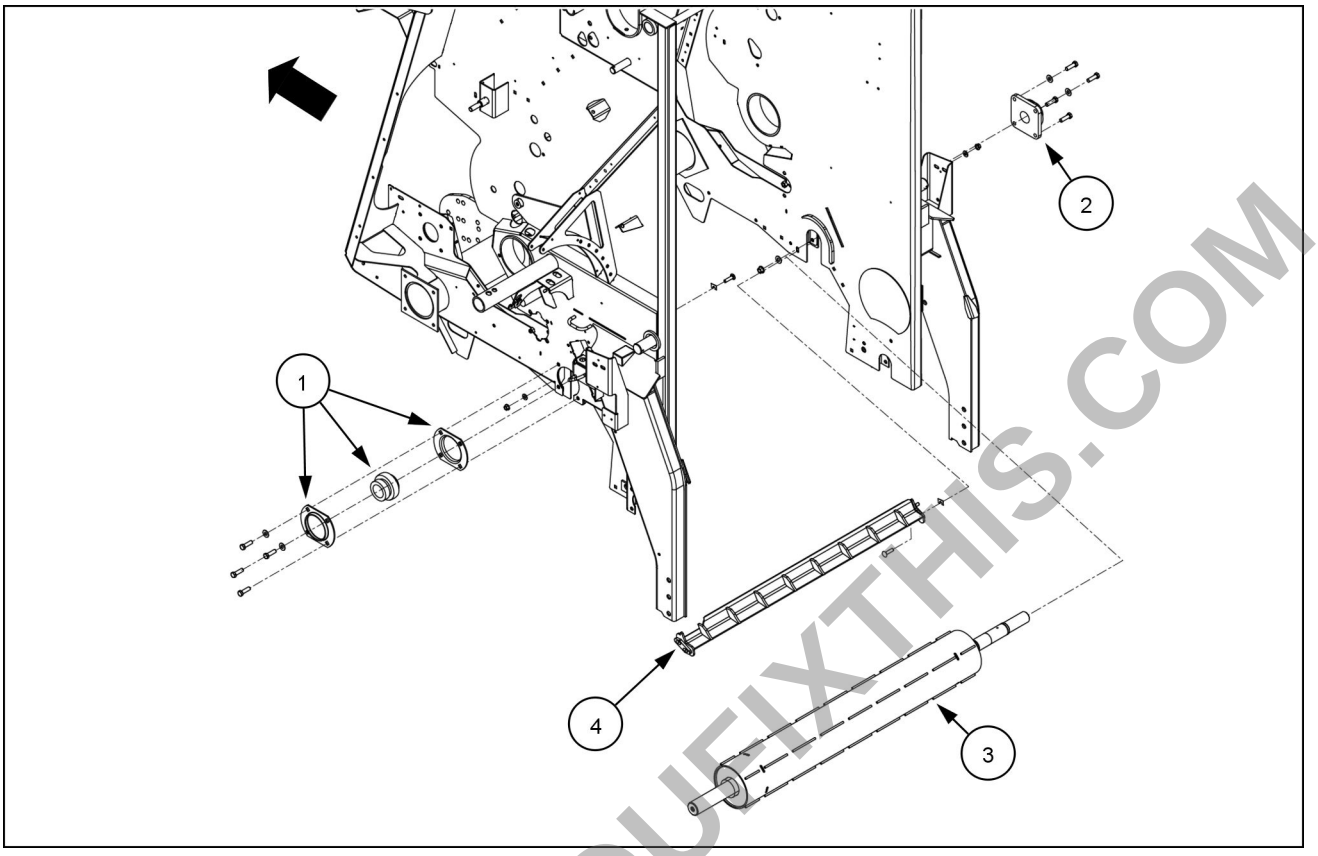
Drive roll – Exploded view

(1) - Drive roll
(2) - Flange bearing, left-hand
(3) - Flange bearing, right-hand
(3) - Bolt, flange, M12 x 40, Class (CL) 8.8

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Starter roll - Exploded view



NHIL13RB00075FA 1

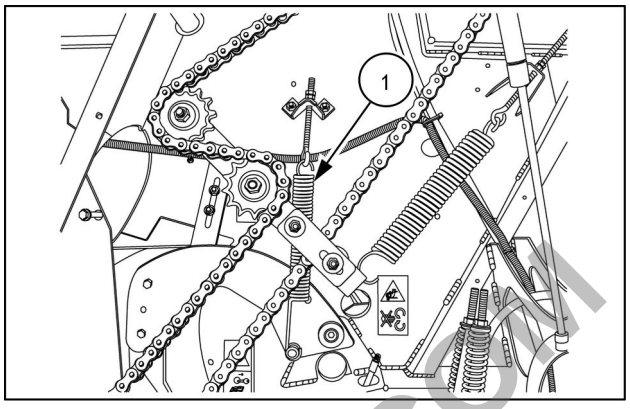
Starter roll – Exploded view

(1) - Bearing set, left-hand
(2) - Flange bearing, right-hand
(3) - Starter roll
(4) - Starter roll rake

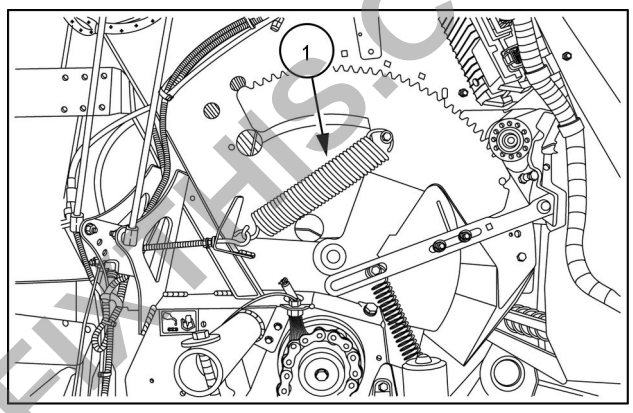
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8. Pivot the duckbill upward until the duckbill return springs **(1)** can be installed.
9. Install the duckbill return springs.



NHIL13RB00712AA 4



NHIL13RB00739AA 5

Next operation:
Net holding - Install - Front net box (68.170)

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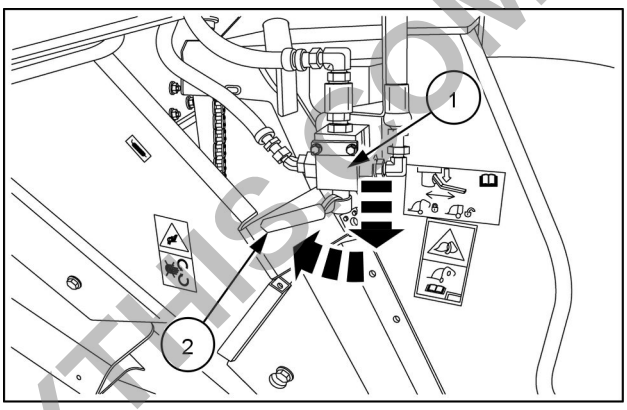
Ejector - Remove - 1.2 m (4 ft) wide bale chamber

⚠ DANGER

Crush hazard! The tailgate may close faster than you can move away.
ALWAYS make sure the tailgate lockout valve is engaged in the locked position before working under a raised tailgate. In the event of a sudden loss of hydraulic pressure, the tailgate will fall if the lockout valve is not engaged. Stand clear of the tailgate before disengaging the lockout valve.
Failure to comply will result in death or serious injury.

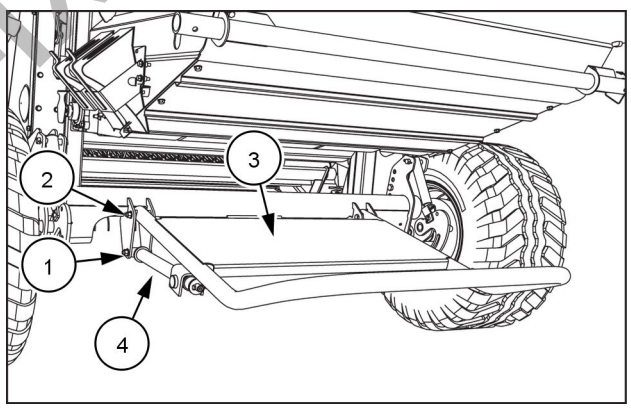
D0003B

1. Open the tailgate, and then engage the tailgate lockout valve **(1)** by first pulling down and then rotating the handle **(2)** forward.



NHIL13RB01858AA 1

2. Support the bale ramp with a suitable lifting device.
3. On each side, remove the bolts **(1)** and **(2)** that secure the bale ramp **(3)** and rods **(4)** to the rear axle.
4. Remove the bale ramp from the rear axle.

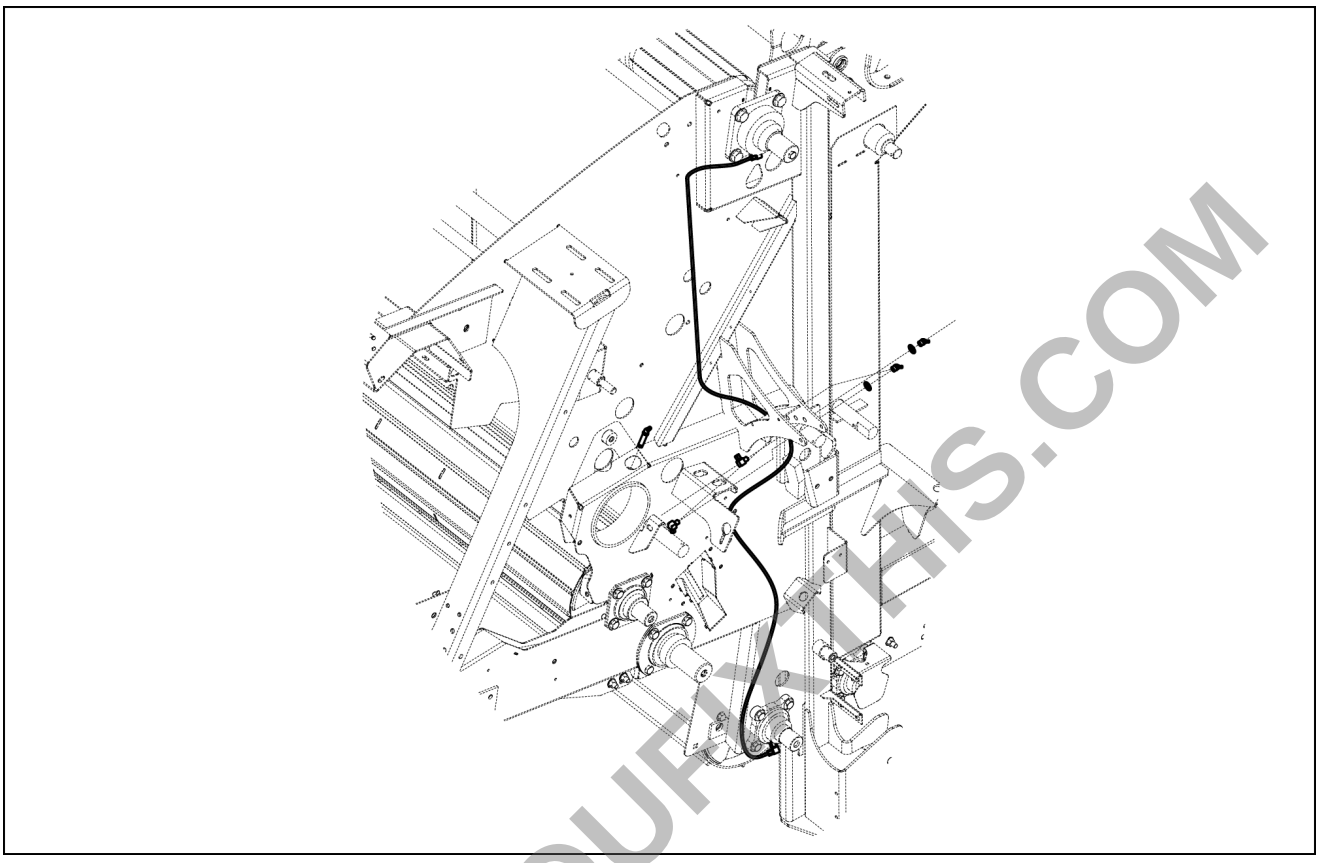


NHVM12RB00188AA 2

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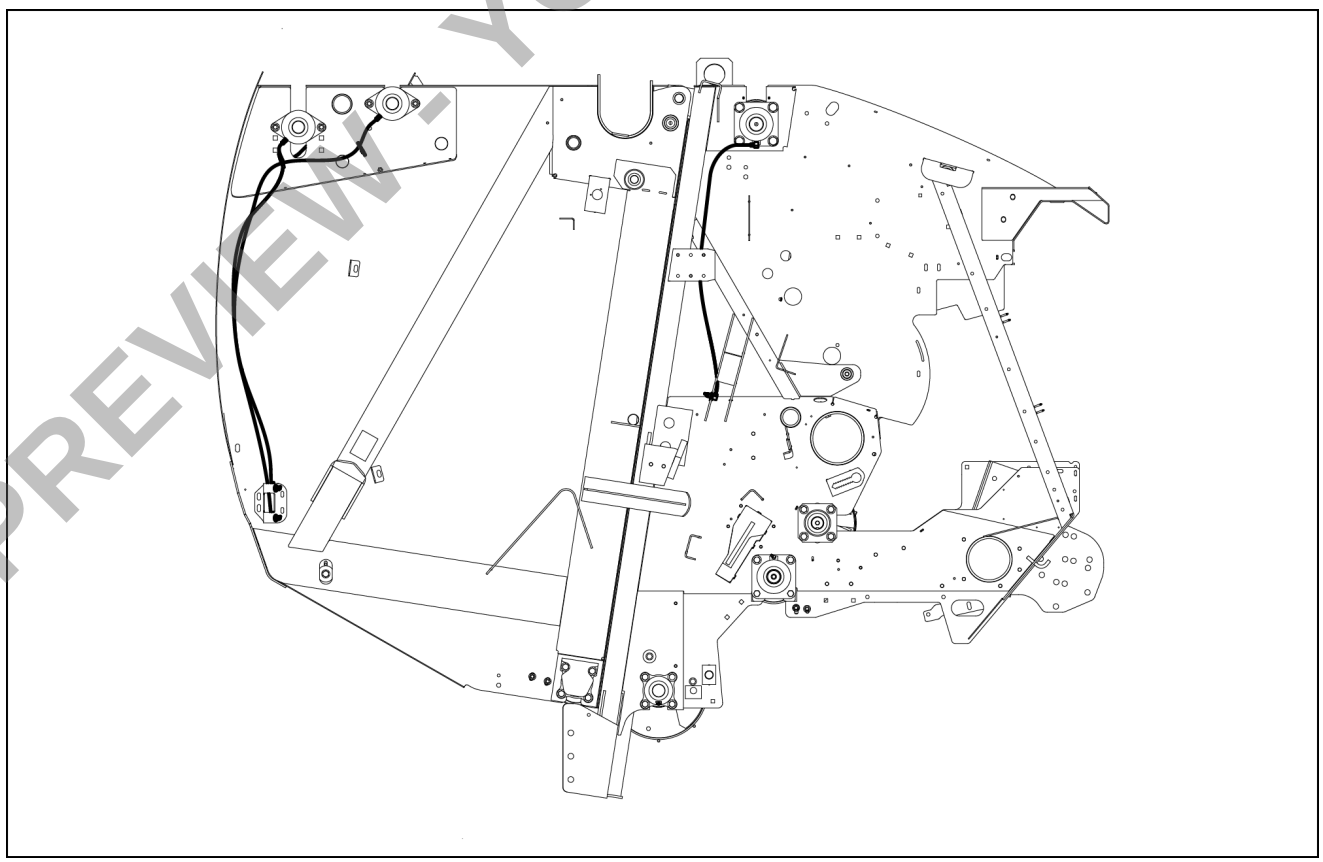
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Grease lubrication system - Overview



NHIL13RB001039F 1

4x5 Baler – Main frame – Left-hand view



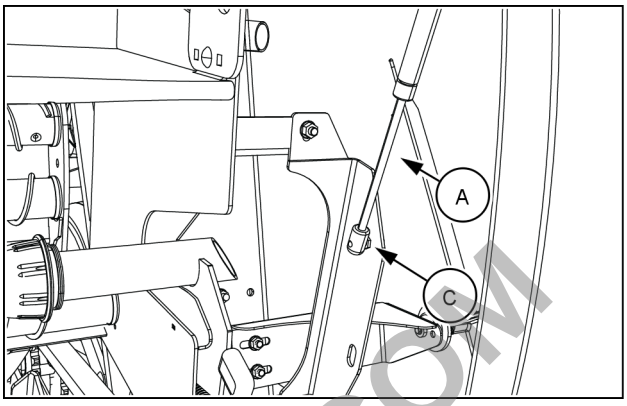
NHIL13RB001037F 2

4x5 Baler – Right-hand overview

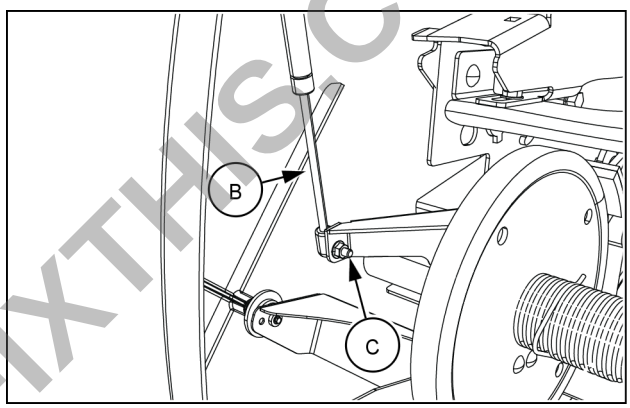
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7. Install the previously removed hardware **(C)** that is used to secure the strut to the net box.
8. Carefully open the shield, and then attach the left-hand **(A)** and right-hand **(B)** struts to the net box.



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NHIL13RB02353AA 4

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[55.DTC] FAULT CODES 55.8

Product feeding 60

[60.223] Wide pickup with rotor cutter/feeder 60.1

[60.260] Rotor 60.2

Pressing - Bale formation 62

[62.140] Bale formation 62.1

[62.150] Starter roll 62.2

[62.153] Stationary roll 62.3

[62.155] Stripper roll 62.4

[62.160] Floor roll 62.5

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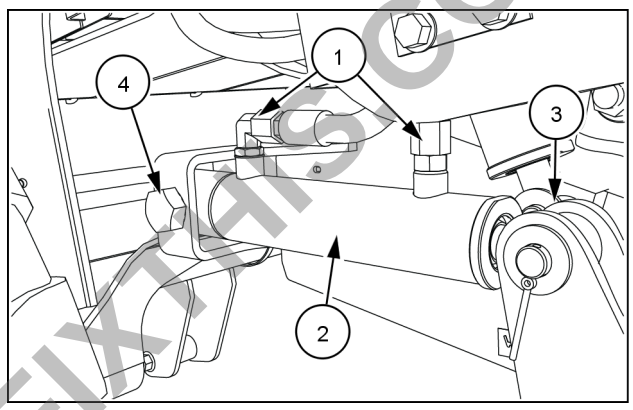
Cutter control circuit - Install

⚠ WARNING

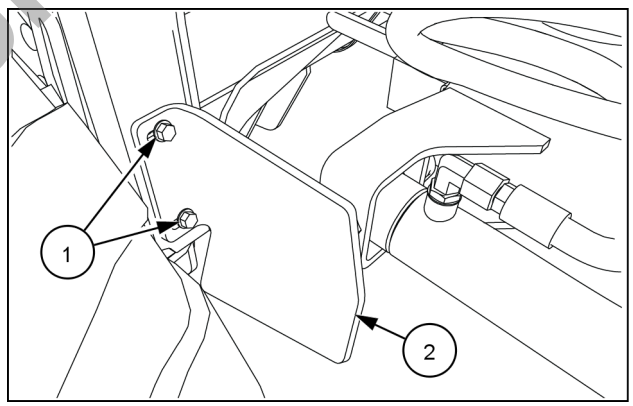
Escaping fluid!
Hydraulic fluid or diesel fuel leaking under pressure can penetrate the skin and cause infection or other injury. To prevent personal injury: Relieve all pressure before disconnecting fluid lines or performing work on the hydraulic system. Before applying pressure, make sure all connections 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

1. On the right-hand side, install the rotor knife cylinder **(2)** into position on the baler.
2. Secure each of the rotor knife cylinders to the baler as follows:
   - On the rod end of the cylinder, install a flat washer and cotter pin **(3)**.
   - On the cap end of the cylinder, install a 3/4 inch x 3-1/2 inch bolt and 3/4 inch locknut **(4)**.
3. Install and tighten the hydraulic hoses **(1)** into the ports on the rotor knife cylinder **(2)**. Make sure that you install the hoses into the same ports that you removed the hoses from.
4. Install the support **(2)**.
5. Secure the support with the two bolts **(1)** that you previously removed.



NHIL13RB03235AA 1



NHIL13RB03234AA 2

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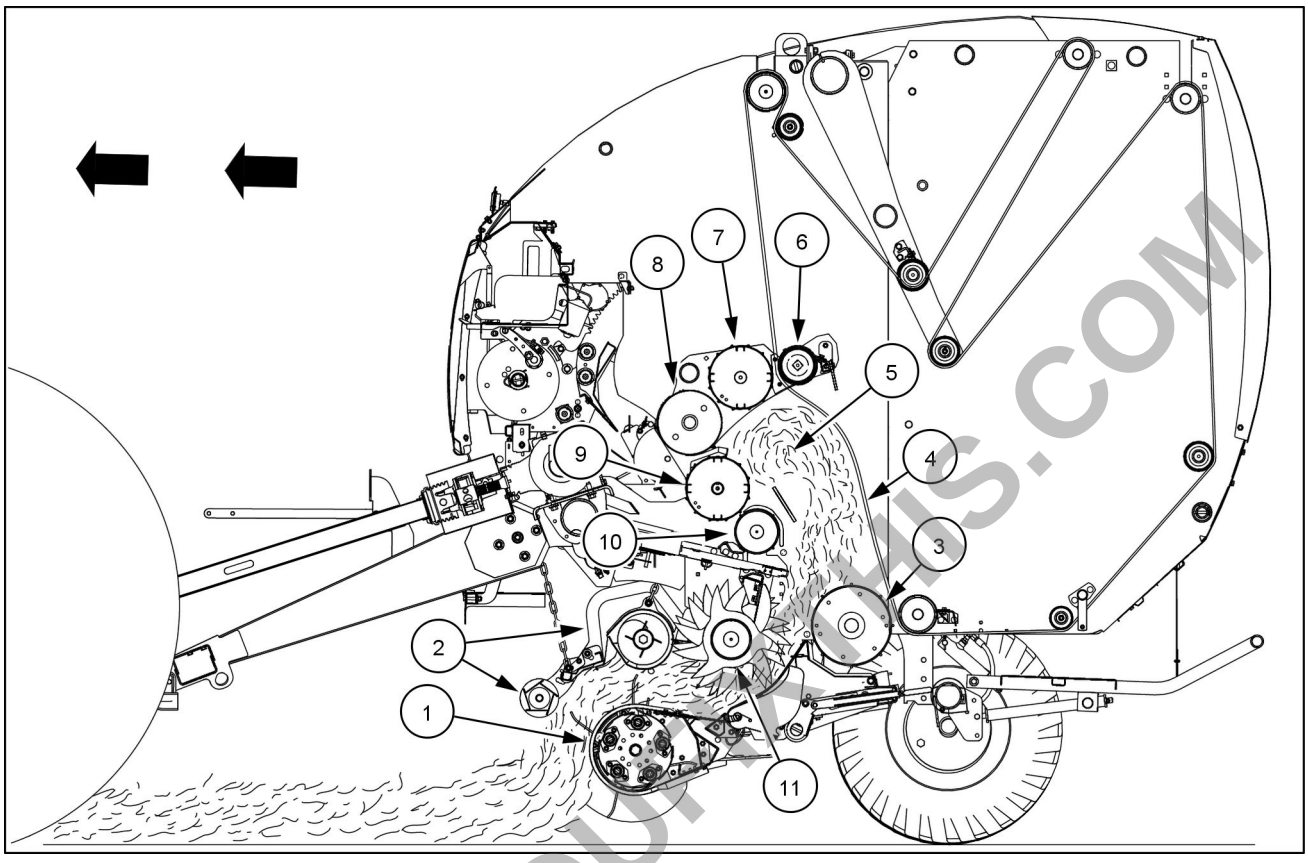
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Bale formation - Overview - Bale core formation



NHIL13RB02875FA 1

Bale core formation

Bale core formation begins with the baler moving forward over the crop windrow creating a steady and continuous feed of crop material.

A. The pickup **(1)** starts the feeding process by lifting the crop material.

B. The windguard (tine, plate, or roller type) **(2)** holds down and slightly compresses crop material for positive feeding.

C. If the pickup is equipped with centering augers, the two augers move the crop material from the ends of the pickup to center and compress the crop material as it moves to the floor roll. If the baler is equipped with a rotor feeder or rotor cutter, the crop material moves from the pickup, and then is compressed and/or cut as it passes under the rotor **(11)** to the floor roll **(3)**. If the baler is equipped with an Over Shot Feeder (OSF), the crop material moves from the pickup, and then is compressed as it passes over the feeder to the floor roll.

D. As the crop material contacts the floor roll **(3)**, it drives the crop material into contact with bale forming belts **(4)**.

E. The rough textured surface of the bale forming belt grips the crop material to carry it upward to the bale core-forming area **(5)**.

F. The follower roll **(6)**, stripper roll **(7)**, and pivot roll **(8)** assist in curling the material to starting the core.

G. The stationary roll **(9)** helps continue curling and, moving the crop material to the starter roll **(10)**, which then completes the full rotation of the crop and creating the bale core.

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