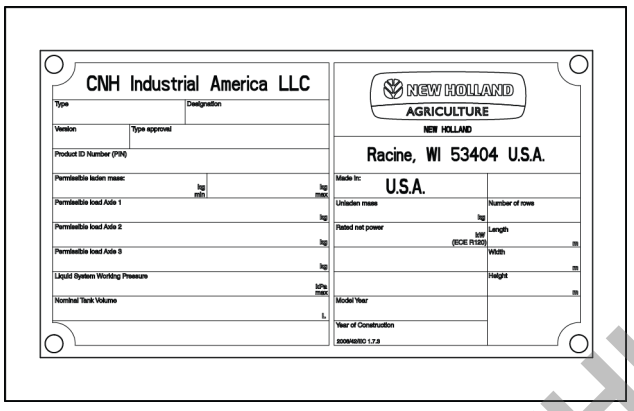
Product identification

Sprayer model and product identification number

Write your model number, product identification number (PIN) or serial number of major components on the lines provided. If needed, give these numbers to your dealer when you need parts or information for your machine.

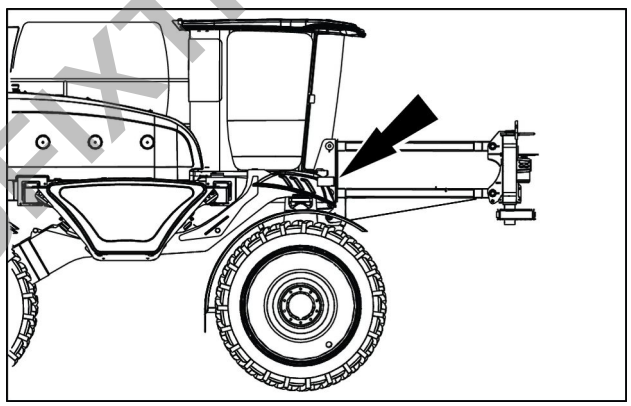


RAIL17SP00852AA 1

Model :

PIN:

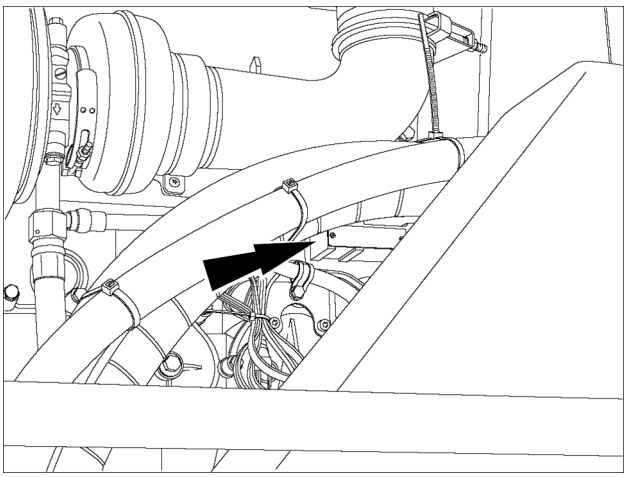
NOTE: *Located on the front right hand side of the lift arm frame.*



RAIL17SP00851AA 2

Engine serial number

NOTE: *Located on the rear left hand side of the engine.*



RCPH11BEN187BAM 3

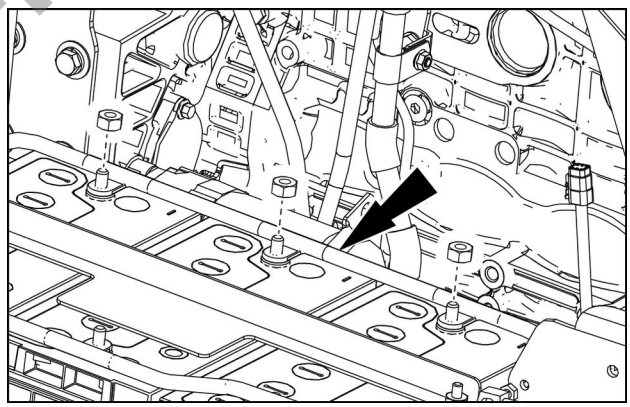
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Engine and crankcase - Remove

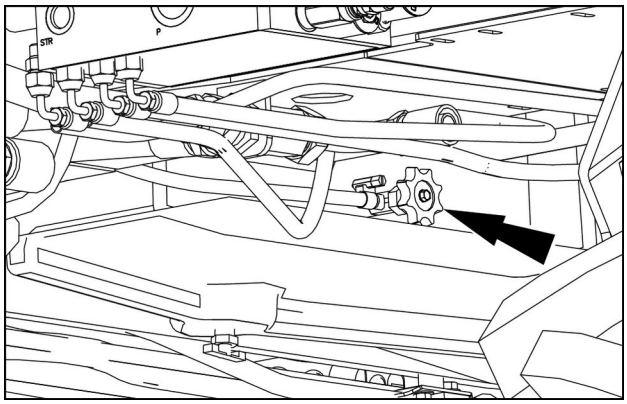
Prior operation:
Remove the engine enclosure. **Engine hood and panels - Remove (90.100)**
Prior operation:
Remove the engine air cleaner. **Air cleaners and lines - Remove (10.202)**
Prior operation:
Remove the Selective Catalytic Reduction (SCR) muffler and catalyst. **Selective Catalytic Reduction (SCR) muffler and catalyst - Remove - Diesel Oxidation Catalyst (DOC) (10.500)**
Prior operation:
Remove the auxiliary pump. Refer to **Auxiliary hydraulic pump - Remove (35.220)**
Prior operation:
Remove the side panel. Refer to **Side panels - Remove (90.100)**
Prior operation:
Remove the hydrostatic pump. Refer to **Pump - Remove (29.218)**
Prior operation:
Remove the Ultraflow pump if equipped. Refer to **High flow hydraulic pump - Remove (35.600)**
Prior operation:
Evacuate the air conditioning system.

1. Park the machine on a solid, level surface.
2. Set the park brake.
3. Turn off the engine.
4. Remove the key.
5. Disconnect the negative cable from the batteries.



RAIL18SP01028AA 1

6. Shut off the fuel.



RAIL18SP01029AA 2

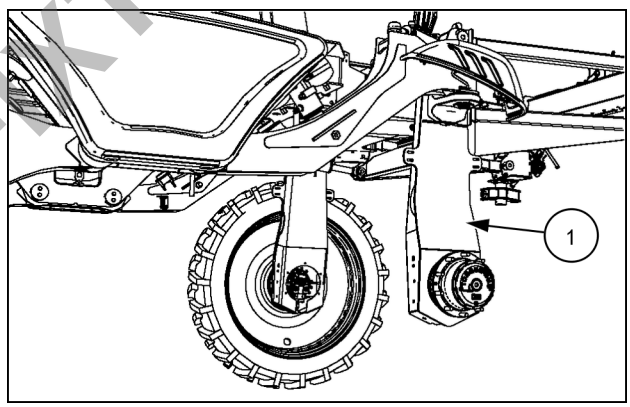
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Front axle - Remove

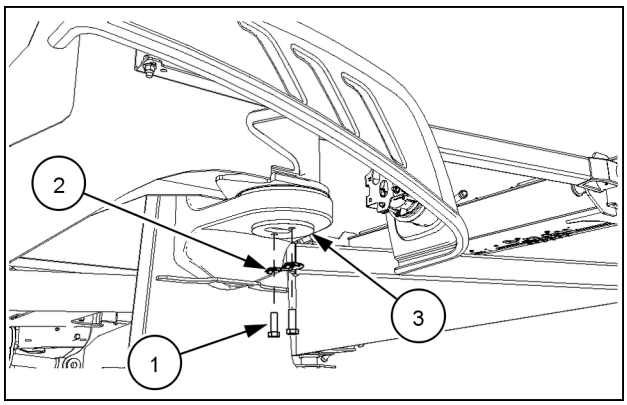
Prior operation:
Remove the Wheel from the vehicle. Refer to **Front wheels - Remove (44.511)**
Prior operation:
Remove the Planetary drive hub from the vehicle. Refer to **Planetary drive and hub - Remove (25.108)**
Prior operation:
Remove the steering cylinder from the vehicle. Refer to **Steering cylinder - Remove (41.216)**

1. Drive the vehicle onto a hard, level surface.
2. Engage the vehicle park brake.
3. Shut off the vehicle engine and remove the key from the ignition.
4. Access the vehicle wheels and place wheel chocks at each wheel.
5. Attach an appropriate lifting device to the suspension arm of the wheel leg being removed.
6. Attach an appropriate lifting device to the wheel leg being removed.
7. Access the wheel leg **(1)** to be removed from the vehicle. Perform the prior operations listed above. Access the underside of the wheel leg mounting area.



RAIL18SP00808AA 1

8. Remove the bolts **(1)** attaching the retainer **(2)** to the king pin **(3)**.



RAIL18SP00807AA 2

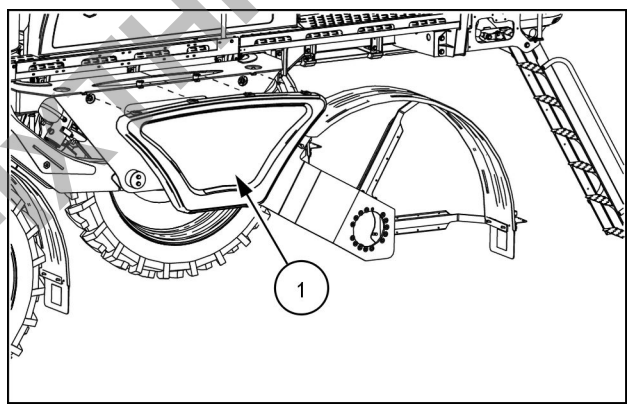
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Rear axle - Remove

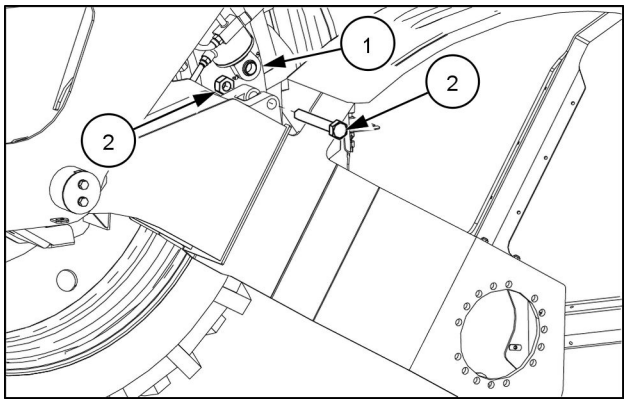
Prior operation:
Remove the rear wheel. Refer to **Rear wheels - Remove (44.520)**
Prior operation:
Remove the planetary drive hub. Refer to **Planetary drive and hub - Remove (25.108)**

1. Drive the vehicle onto a hard, level surface.
2. Apply the vehicle park brake.
3. Turn off the vehicle engine and remove the key from the ignition.
4. Access the vehicle wheels and place wheel chocks at each wheel.
5. Attach an appropriate lifting device to the wheel leg being removed.
6. Remove the plastic panel **(1)** from the side of the vehicle.



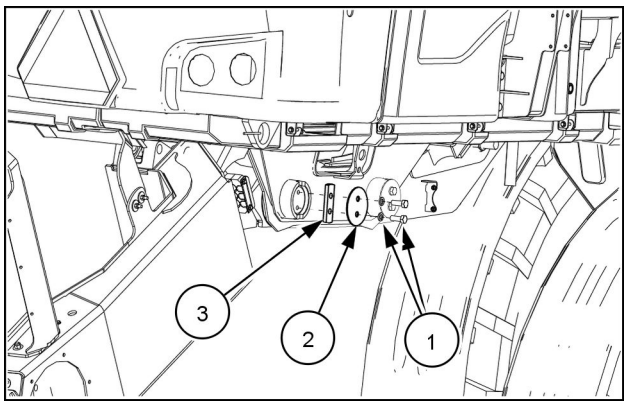
RAIL18SP00823AA 1

7. Disconnect the rod end of the suspension cylinder **(1)** by removing the bolt and nut **(2)** .



RAIL18SP00824AA 2

8. Access the interior side of the wheel leg. Remove the bolts and lock washers **(1)**, slider cap plate **(2)**, and the pivot pin lock plate **(3)**.

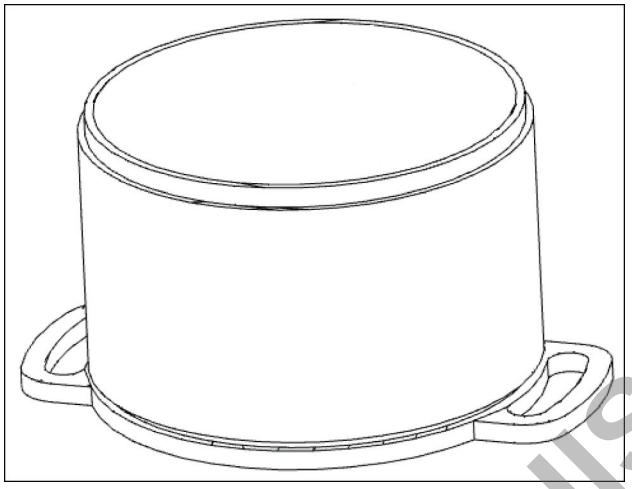


RAIL18SP00827AA 3

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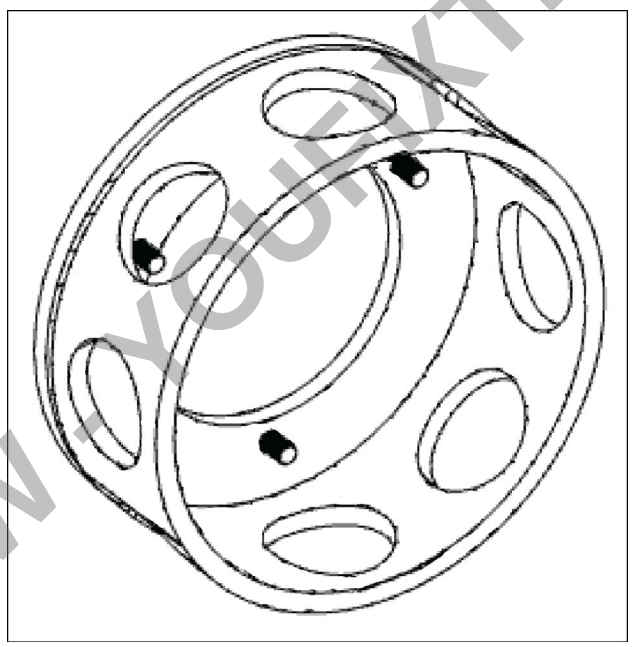
Planetary drive and hub - Special tools

NOTE: *These tools are available through the parts system. Order through the parts depot.*



RAIL15SP01366FA 1

380003482 – Pressing tool main bearing cone



RAIL15SP01367FA 2

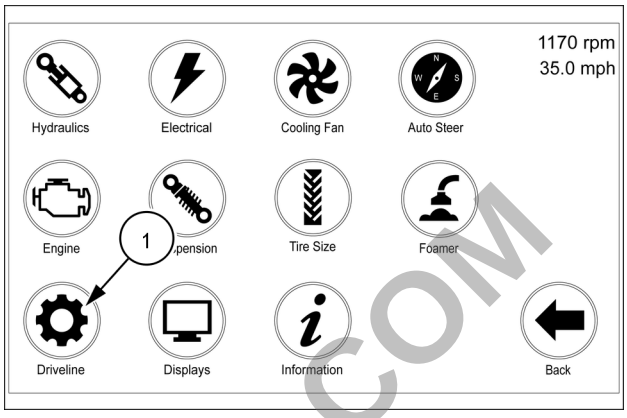
380003480 — Service brake test plate

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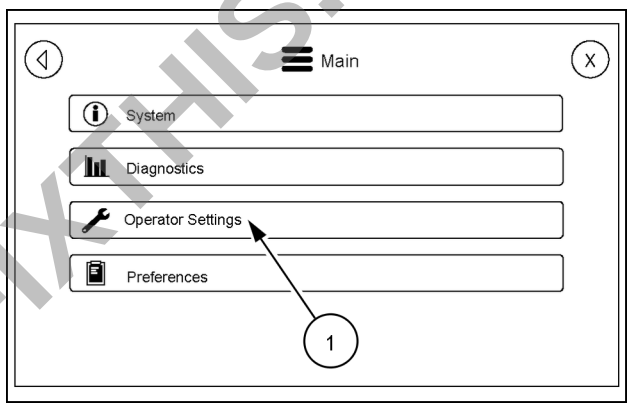
Hydraulic service brakes - Calibrate

1. From the HOME screen page, press the DRIVELINE icon **(1)**.



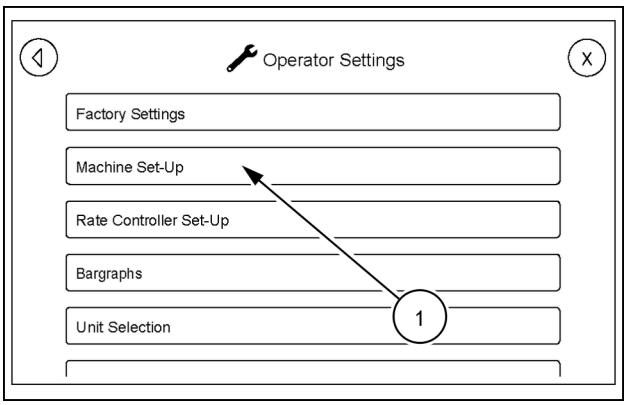
RAIL17SP00109FA 1

2. Press the OPERATOR SETTINGS option **(1)**.



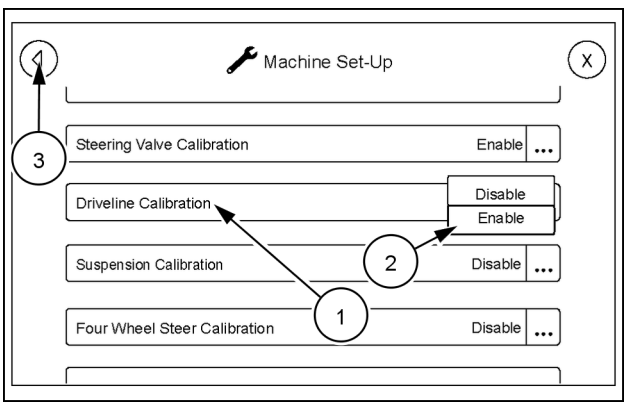
RAIL18SP00864AA 2

3. Press the MACHINE SET-UP option **(1)**.



RAIL18SP00860AA 3

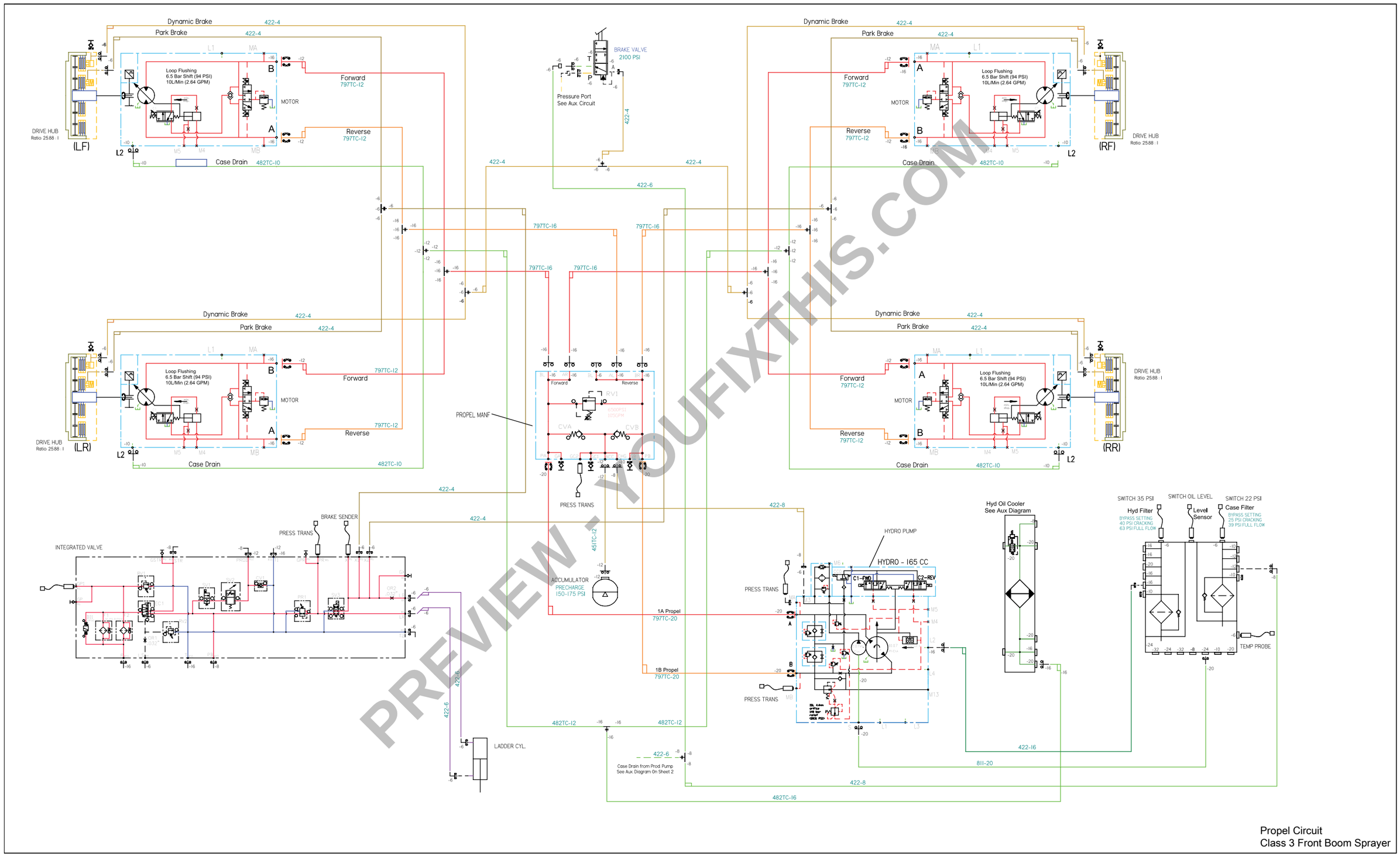
4. Press the options icons **(2)** of the DRIVELINE CALIBRATION option **(1)** and ENABLE the Calibration mode and then select the back arrow **(3)**.



RAIL18SP00874AA 4

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Propel Circuit
Class 3 Front Boom Sprayer

RAIL17SP01093JA 1

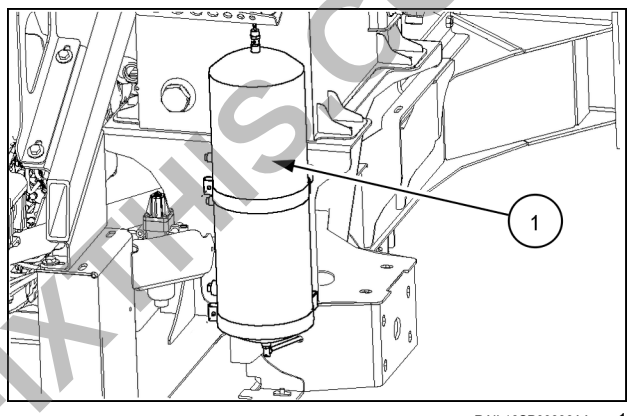
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Pneumatic system tank - Remove

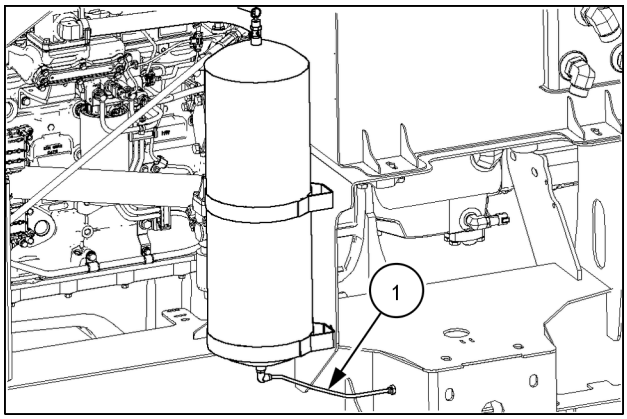
Prior operation:
Remove the side panel from the vehicle. Refer to **Side panels - Remove (90.100)**

1. Drive the vehicle onto a hard, level surface.
2. Apply the vehicle park brake.
3. Turn off the vehicle engine and remove the key from the ignition.
4. Open the vehicle engine compartment hood and remove the side panel.
5. Disconnect the air lines attached to the air tank assembly **(1)** .



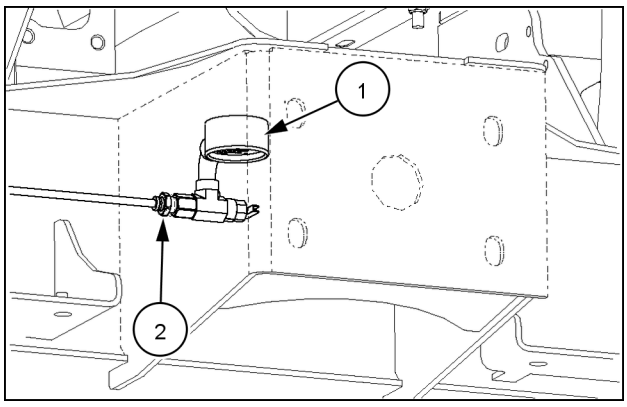
RAIL18SP00838AA 1

6. Disconnect the air line **(1)** from the bottom of the tank which connects to the pressure gauge.



RAIL18SP00839AA 2

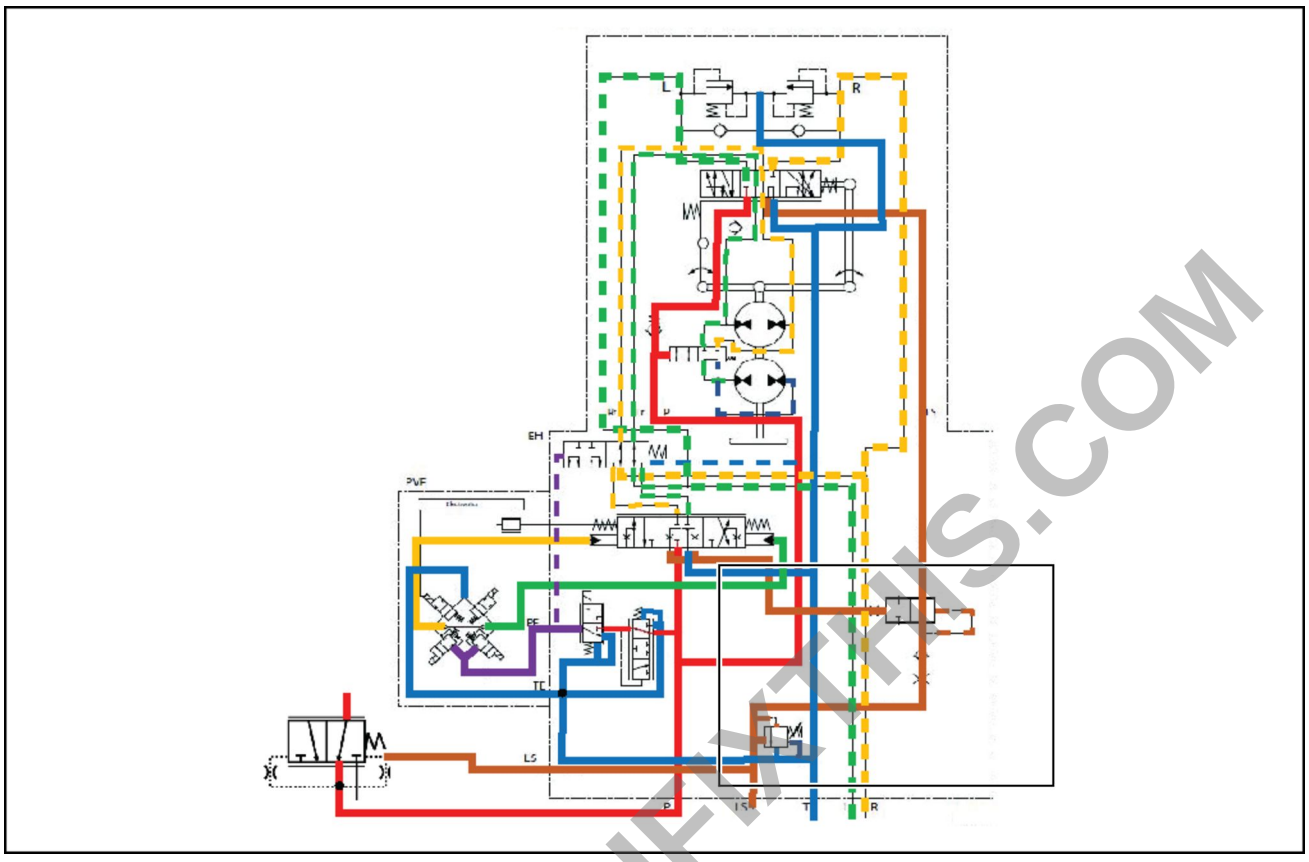
7. Remove the pressure gauge assembly **(1)** from the frame mounting area by removing the nut **(2)**. Pull the air line through the opening to remove the pressure gauge assembly.



RAIL18SP00837AA 3

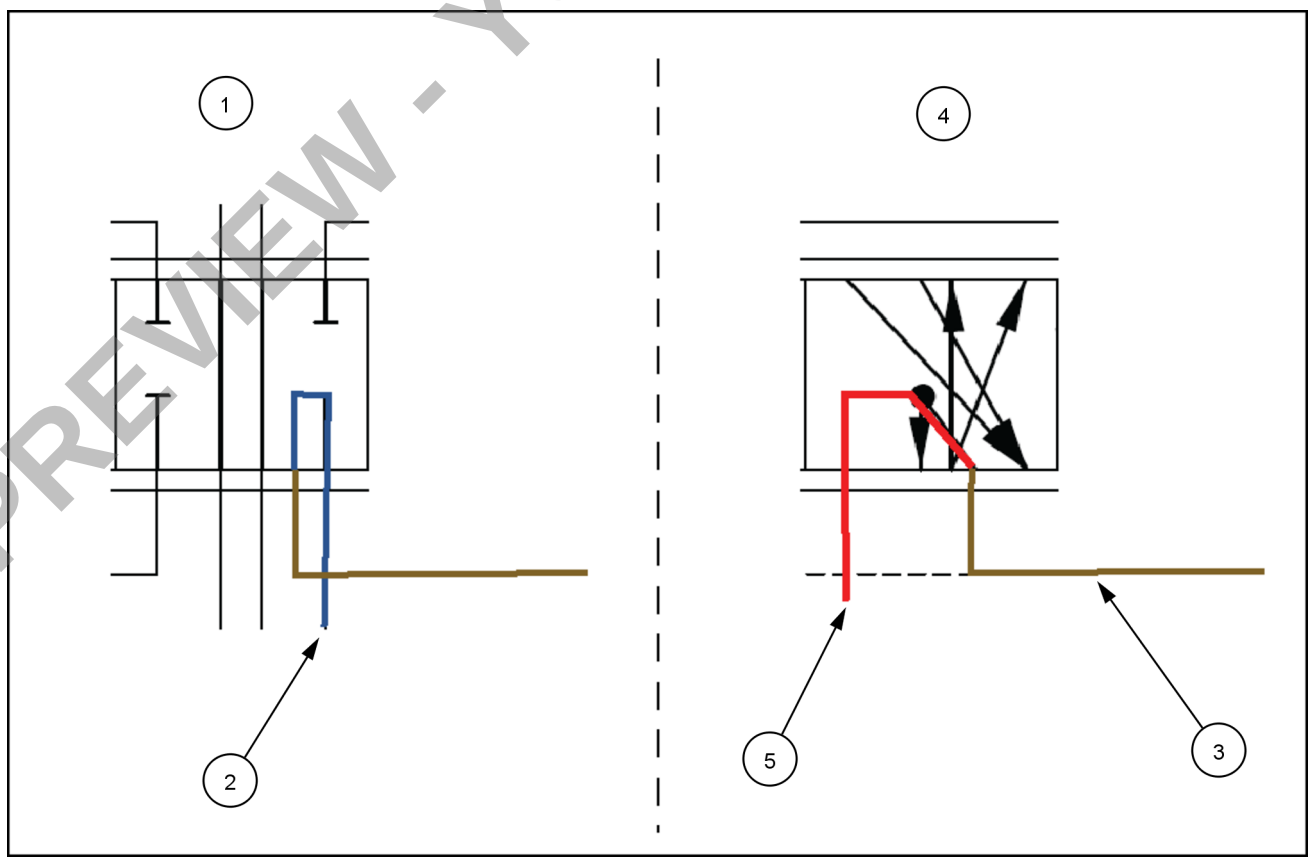
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RAIL18SP00191FA 5

Reactive (steering wheel) steering. In Neutral **(1)**, the load signal is connected to tank **(2)** in the steering valve (see illustration). No load signal pressure develops **(3)** . Priority valve held in “Excess Flow” position **(4)** (right) by pressure **(5)** on opposite end of the priority valve spool.



RAIL18SP00192FA 6

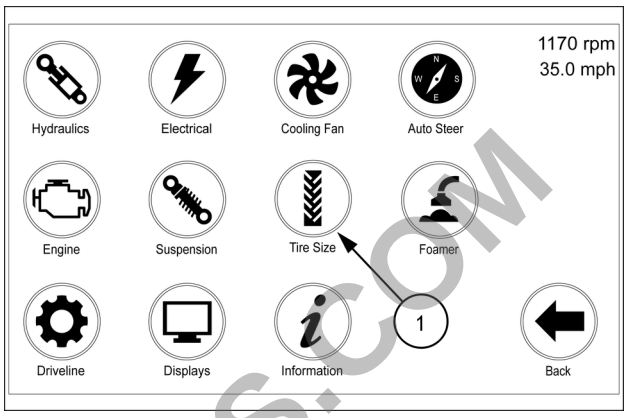
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Front wheels - H1 - Calibration procedures

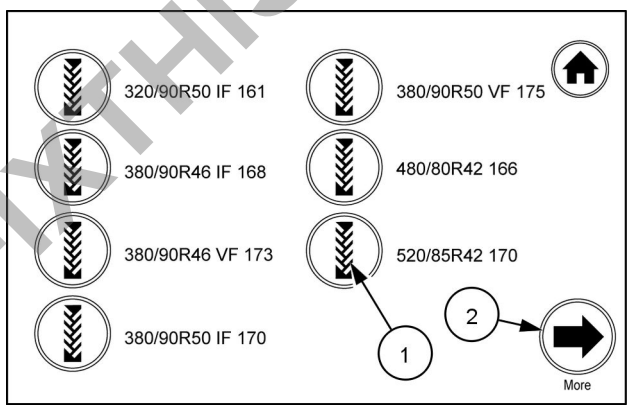
Standard tires

1. The wheel circumference, as displayed on the armrest display, must be updated when tires are changed.
   From the arm rest display second home page touch the Tire Size icon **(1)**.
   The Tire Size screen displays.



RAIL17SP00109FA 1

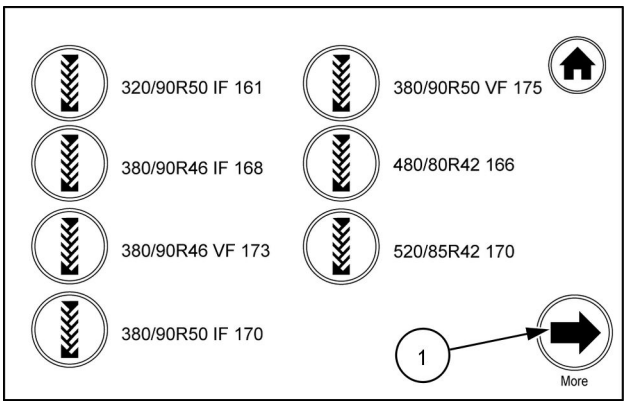
2. Select the appropriate tire size **(1)** from the list of standard tires sizes.
   Press the Home key **(2)** to save the selected tire size.



RAIL17SP00202AA 2

Non-standard tire size

3. To enter a tire size not in the standard tire size list, touch the More icon **(1)** to bring up the Custom Tire Size screen.



RAIL17SP00202AA 3

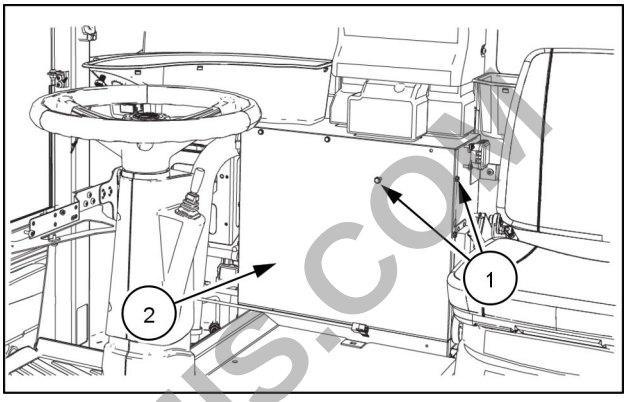
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Heater core - Remove

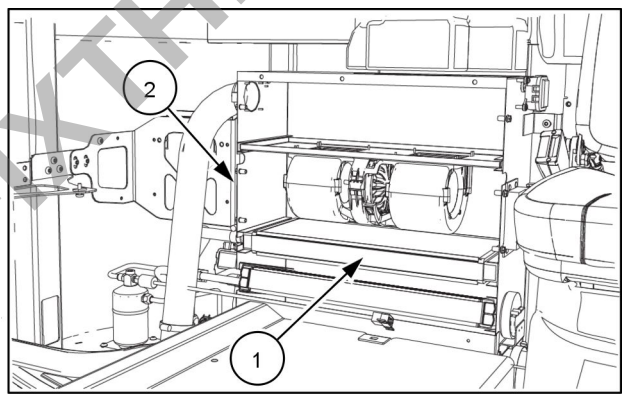
Prior operation:
Refer to **Cab interior trim and panels - Remove (90.160)** for proper instructions.

1. Remove the bolts **(1)** holding the heater box cover plate **(2)** in place. Remove the cover plate and set aside.



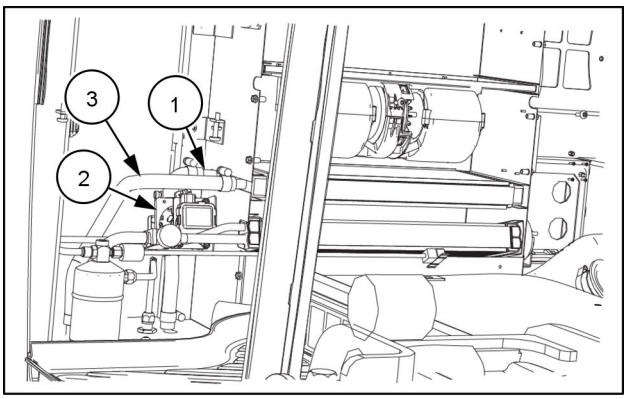
RAIL18SP00395AA 1

2. Locate the heater core **(1)** inside the heater box. **(2)**.



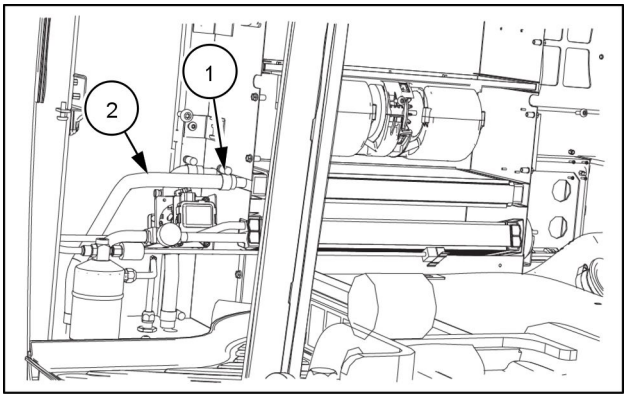
RAIL18SP00396AA 2

3. On the right-hand side of the heater core there is a heater core inlet hose **(1)** (rear hose) between the water valve **(2)** and the heater core. The front hose is the return hose **(3)**.



RAIL18SP00398AA 3

4. Loosen the hose clamp **(1)** on the return hose **(2)**. Remove the hose from the heater core.

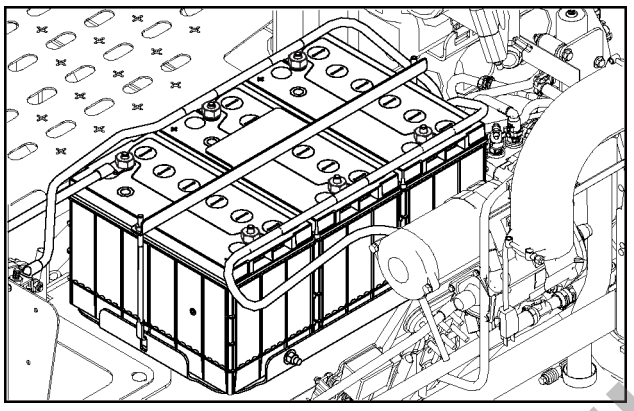


RAIL18SP00398AA 4

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Batteries

Three batteries supply power to the vehicle. Two batteries are for the primary starting circuit, one battery is for the vehicle electronics. The batteries are hybrid style with high temperature flooded epoxy bonded plates. Battery rating is 12 volts at 1000 cold cranking amps. The batteries are connected in parallel.



RAIL17SP01017AA 1

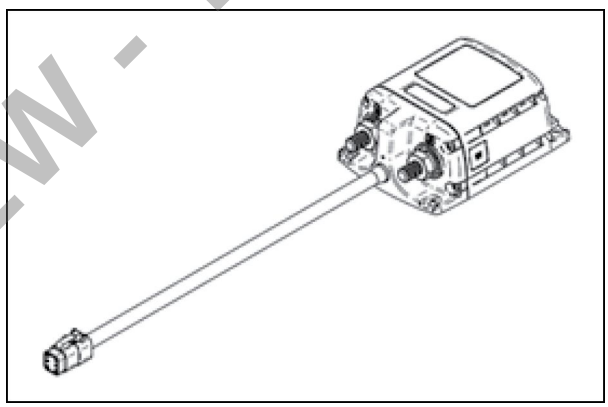
Battery combiner

The battery combiner functions to protect sensitive electronic equipment during cranking by separating the battery banks (starting – two batteries, electronics - one battery)

When engine cranking is completed, the combiner senses a charging level voltage over **13.1 V** (direct current) and combines the battery banks. This allows machine to have all three batteries at its disposal during operation.

When the machine is shut off (engine turned off), the combiner will once again separate the battery banks when the voltage drops below **12.7 V** (direct current).

With the batteries separated, the normal loads on the machine are isolated to only the electronics battery. If the operator was to drain this battery (leave lights on, leave the field computer on, etc.), the starting battery bank would see no ill effect, meaning they would stay completely charged since they are separated from the electronics battery.

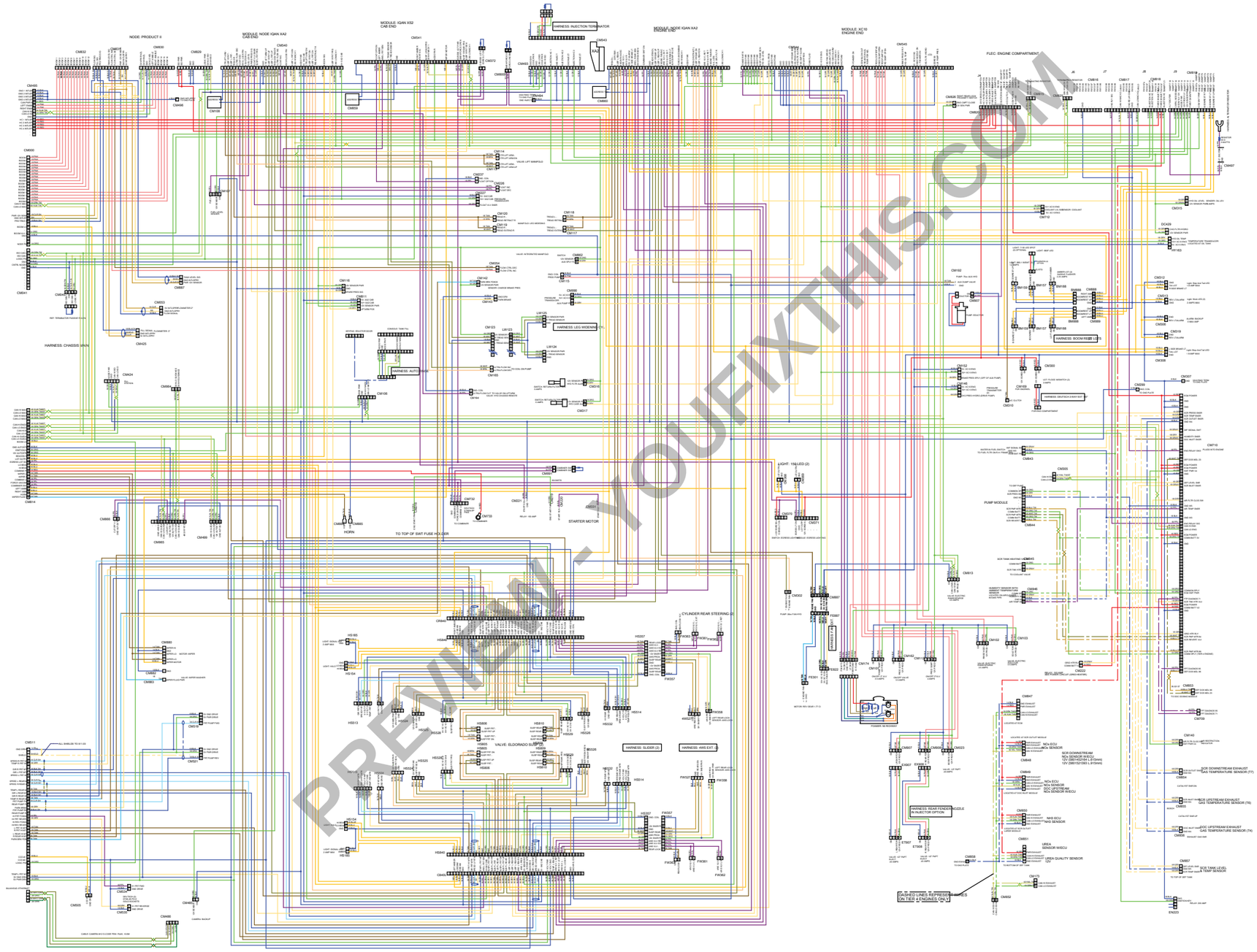


RAIL15SP00358AA 2

The battery combiner switch **(1)** is located under the storage tray behind the training seat . To access the combiner switch, remove the storage tray.

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ELECTRICAL SCHEMATIC
CLASS 3 FRONT BOOM SPRAYER

RAIL17SP01802JA SHEET 2 1

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Electrical systems - 55

Electronic modules - 640

Guardian™ SP310F Model SP310F Tier 4B (final), Four-Wheel Steer (4WS), fixed axle, 1000 gallon tank [HEKY310FYHF001227 - HEKY310FCJF999999], Guardian™ SP310F Model SP310F Tier 4B (final), Four-Wheel Steer (4WS), fixed axle, 1200 gallon tank [HEKY310FYHF001227 - HEKY310FCJF999999], Guardian™ SP310F Model SP310F Tier 4B (final), Four-Wheel Steer (4WS), hydraulic axle, 1000 gallon tank [HEKY310FYHF001227 - HEKY310FCJF999999], Guardian™ SP310F Model SP310F Tier 4B (final), Four-Wheel Steer (4WS), hydraulic axle, 1200 gallon tank [HEKY310FYHF001227 - HEKY310FCJF999999], Guardian™ SP310F Model SP310F Tier 4B (final), Two-Wheel Steer (2WS), fixed axle, 1000 gallon tank [HEKY310FYHF001227 - HEKY310FCJF999999], Guardian™ SP310F Model SP310F Tier 4B (final), Two-Wheel Steer (2WS), fixed axle, 1200 gallon tank [HEKY310FYHF001227 - HEKY310FCJF999999], Guardian™ SP310F Model SP310F Tier 4B (final), Two-Wheel Steer (2WS), hydraulic axle, 1000 gallon tank [HEKY310FYHF001227 - HEKY310FCJF999999], Guardian™ SP310F Model SP310F Tier 4B (final), Two-Wheel Steer (2WS), hydraulic axle, 1200

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Hydrostatic drive control system - Calibrate Driveline

⚠ WARNING

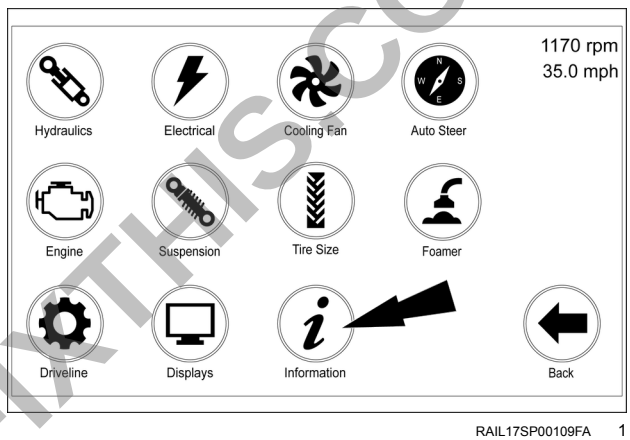
Equipment rolling hazard!
Securely block both sides of the wheels before you release the parking brake.
Failure to comply could result in death or serious injury.

W1478A

NOTICE: *The below procedure has to be preformed with the engine running and park brakes in release state. Exercise caution to avoid the movement of the machine.*

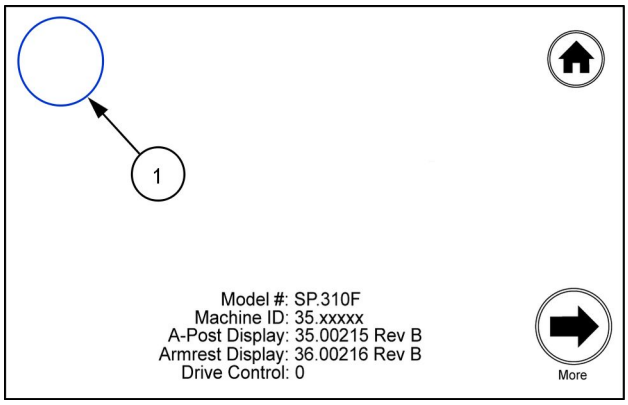
Unlock the machine level as follows:

1. Press the INFORMATION icon **(1)** on the display.



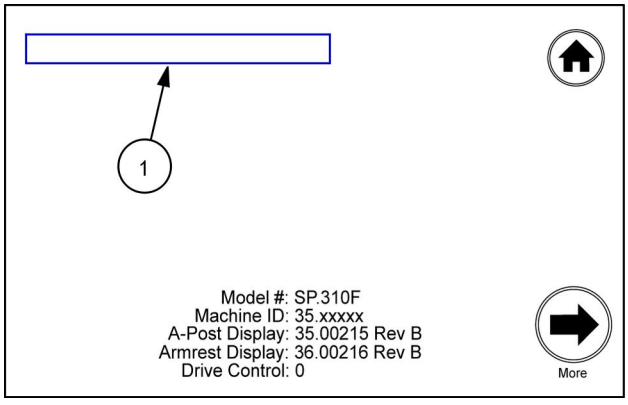
RAIL17SP00109FA 1

2. Access the hidden keyboard by pressing on area **(1)** marked on the top-left corner of the screen.



RAIL17SP00216AA 2

3. Enter the unlock code (1357) on the Virtual keyboard.
4. Once the machine level is unlocked, a message “Machine Level Unlock” will be displayed in the indicated area **(1)** on top-left corner of the display.



RAIL17SP00216AA 3

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Cab radio set - Configure

AM/FM/WX stereo radio with compact disc player (Bluetooth® capable)

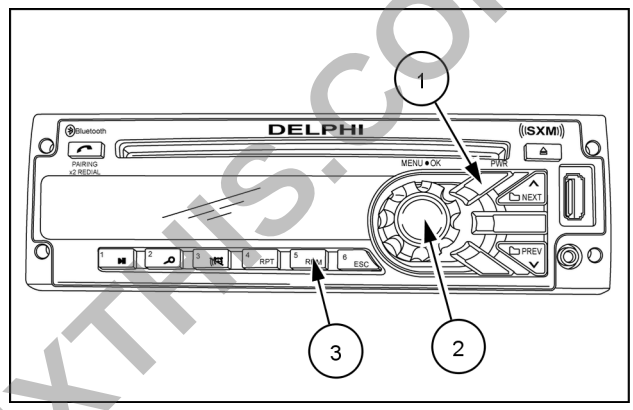
For any programming of the radio other than country selection, refer to the radio operator's manual that is supplied with your vehicle.

Use of the **SiriusXM®** radio service requires a subscription. Refer to the radio operator's manual for subscription information.

Country selection

To change from one country to another follow these steps:

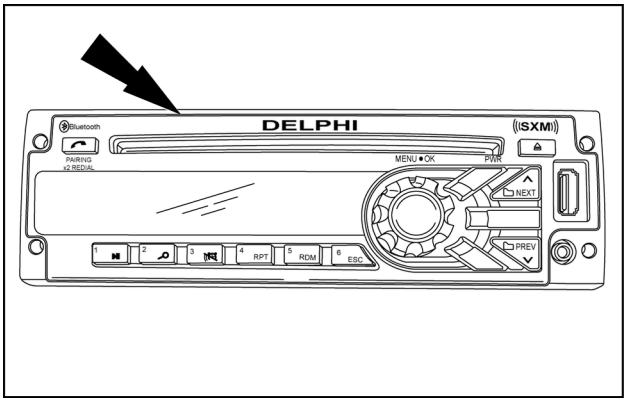
1. Turn ignition to ON.
2. Press and hold power button **(1)** until radio is OFF.
3. Press and hold preset 5 **(3)** and volume knob **(2)** for 2–4 seconds — screen will change to show country (may have to repeat).
4. Rotate volume knob **(2)** forward to move through the menu to reach country zone required.
5. Once the correct country zone is found, press the volume knob **(2)** once to make selection and exit the menu.



RAIL17SP00282AA 1

Radio antenna

The radio antenna is located in the cab roof.



RAIL17SP00282AA 2

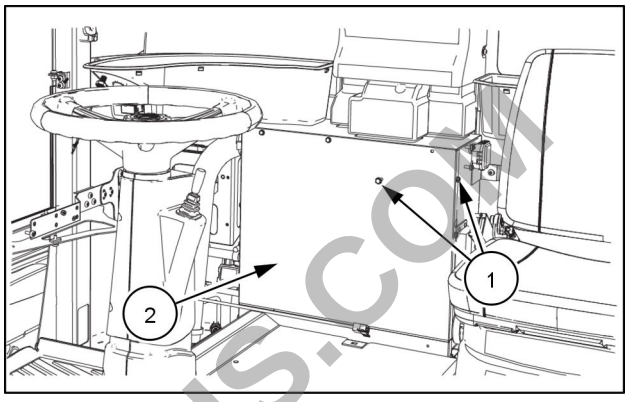
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Blower - Remove

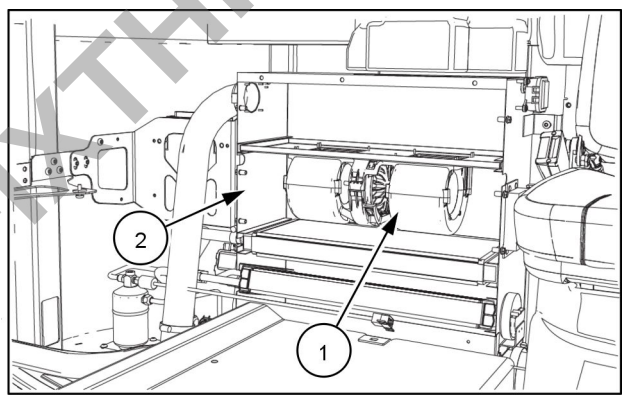
Prior operation:
Refer to **Cab interior trim and panels - Remove (90.160)** for proper procedure.

1. Remove the bolts **(1)** holding the heater box cover plate **(2)** in place. Remove the cover plate and set aside.



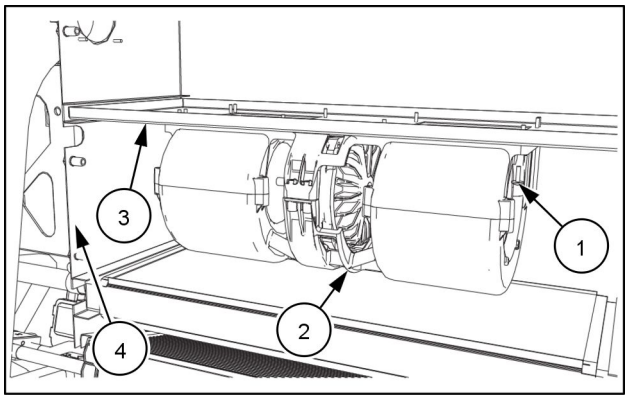
RAIL18SP00395AA 1

2. Locate the blower motor **(1)** inside the heater box. **(2)**.



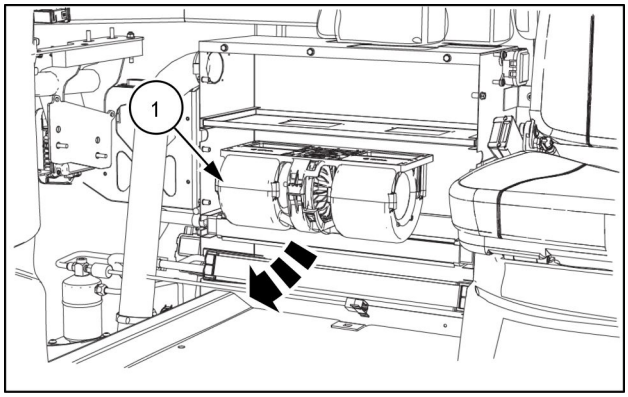
RAIL18SP00396AA 2

3. Remove the screws **(1)** holding the blower motor assembly **(2)** to the cross plate **(3)** inside the heater box **(4)**.



RAIL18SP00686AA 3

4. Lower the blower motor assembly **(1)** and remove toward the front. Disconnect the blower motor wire harness from the cab harness connector.



RAIL18SP00685AA 4

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Electrical systems - 55

FAULT CODES - DTC

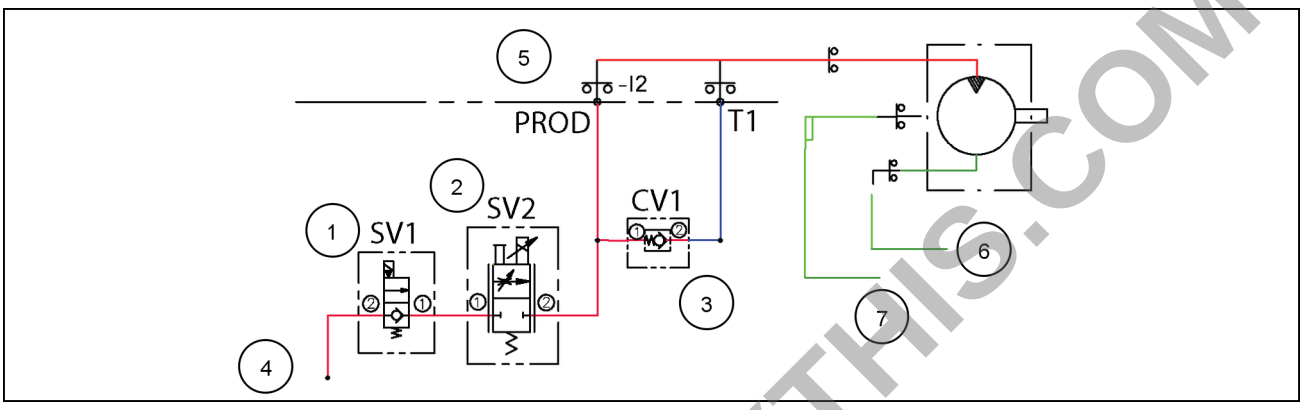
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Guardian™ SP310F Model SP310F Tier 4B (final), Four-Wheel Steer (4WS), fixed axle, 1000 gallon tank [HEKY310FYHF001227 - HEKY310FCJF999999], Guardian™ SP310F Model SP310F Tier 4B (final), Four-Wheel Steer (4WS), fixed axle, 1200 gallon tank [HEKY310FYHF001227 - HEKY310FCJF999999], Guardian™ SP310F Model SP310F Tier 4B (final), Four-Wheel Steer (4WS), hydraulic axle, 1000 gallon tank [HEKY310FYHF001227 - HEKY310FCJF999999], Guardian™ SP310F Model SP310F Tier 4B (final), Four-Wheel Steer (4WS), hydraulic axle, 1200 gallon tank [HEKY310FYHF001227 - HEKY310FCJF999999], Guardian™ SP310F Model SP310F Tier 4B (final), Two-Wheel Steer (2WS), fixed axle, 1000 gallon tank [HEKY310FYHF001227 - HEKY310FCJF999999], Guardian™ SP310F Model SP310F Tier 4B (final), Two-Wheel Steer (2WS), fixed axle, 1200 gallon tank [HEKY310FYHF001227 - HEKY310FCJF999999], Guardian™ SP310F Model SP310F Tier 4B (final), Two-Wheel Steer (2WS), hydraulic axle, 1000 gallon tank [HEKY310FYHF001227 - HEKY310FCJF999999], Guardian™ SP310F Model SP310F Tier 4B (final), Two-Wheel Steer (2WS), hydraulic axle, 1200

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Product pump - Dynamic description

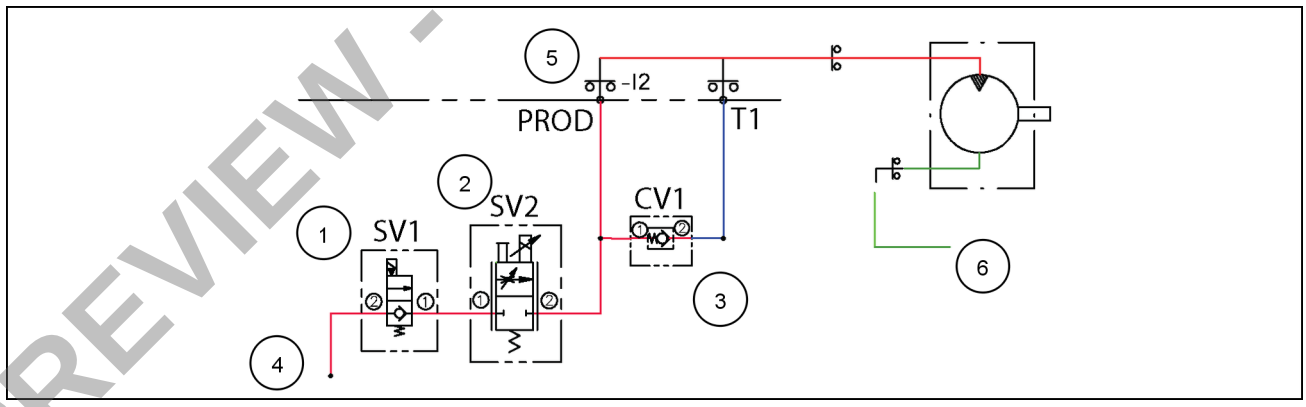
The product pump circuit is feed hydraulic flow from the auxiliary pump through the integrated valve. The flow is activated with 12 volts to the coil / cartridge in SV1. The product system display then controls the amount of hydraulic flow by use of a PWM valve cartridge in SV2 to increase or decrease the pump output. There is also a PWM hydraulic check valve with screen installed in the circuit if opened returns to tank.
There are two different sized product pumps: 9306 — Standard flow pump, and the 9307 High flow pump. The difference between the two pumps is the case drain return to tank hydraulic line which is only attached to the Standard flow product pump.



RAIL18SP00183EA 1

9306 Standard flow pump

Item	Description
1	SV1 Product pump on/off coil
2	SV2 PWM coil and cartridge
3	Check valve for product pump hydraulic motor.
4	Hydraulic flow from the integrated manifold feed
5	Hydraulic flow to product pump motor P port
6	T port main return to tank
7	Case drain return to tank



RAIL18SP00184EA 2

9307 High flow pump

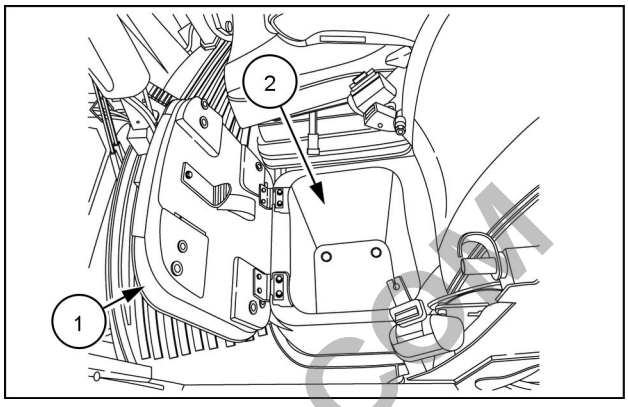
Item	Description
1	SV1 Product pump on/off coil
2	SV2 PWM coil and cartridge
3	Check valve for product pump hydraulic motor.
4	Hydraulic flow from the integrated manifold feed
5	Hydraulic flow to product pump motor P port
6	T port main return to tank

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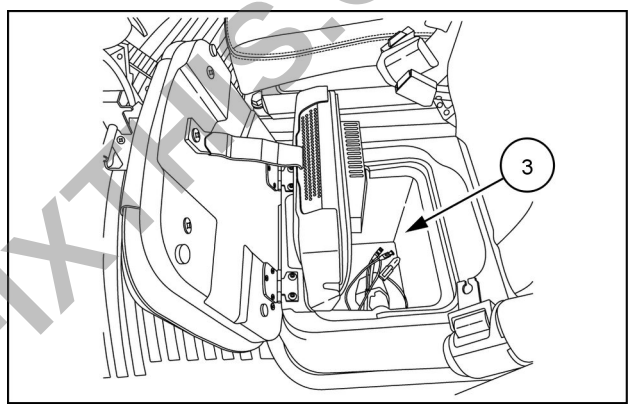
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Instructional seat - Remove

1. Lift the instructional seat **(1)** up to gain access to the inside of the seat support base **(2)**. If your vehicle is equipped with the optional cooler **(3)**, remove it from the inside of the seat support base.

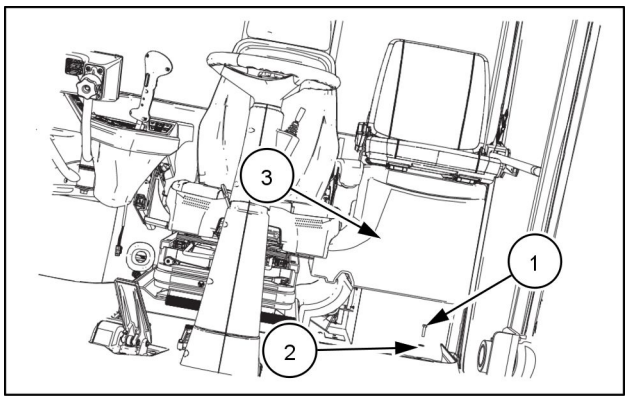


RAIL17SP00373AA 1

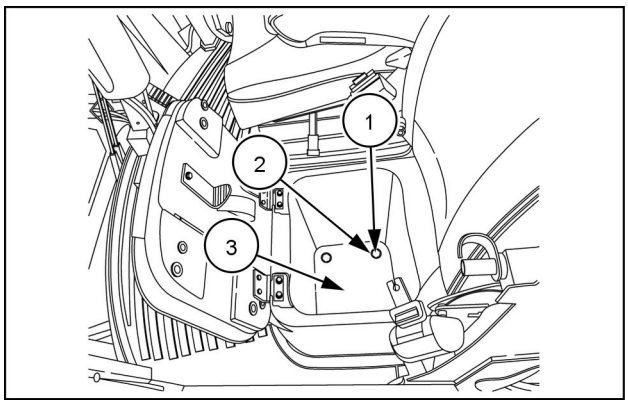


RAIL17SP00371AA 2

2. Inside the seat support base remove the bolts **(1)** and washers **(2)** securing the seat support base **(3)** to the cab floor.



RAIL18SP00687AA 3



RAIL17SP00373AA 4

3. Lift the seat support base with the instructional seat attached up to remove it from the cab.

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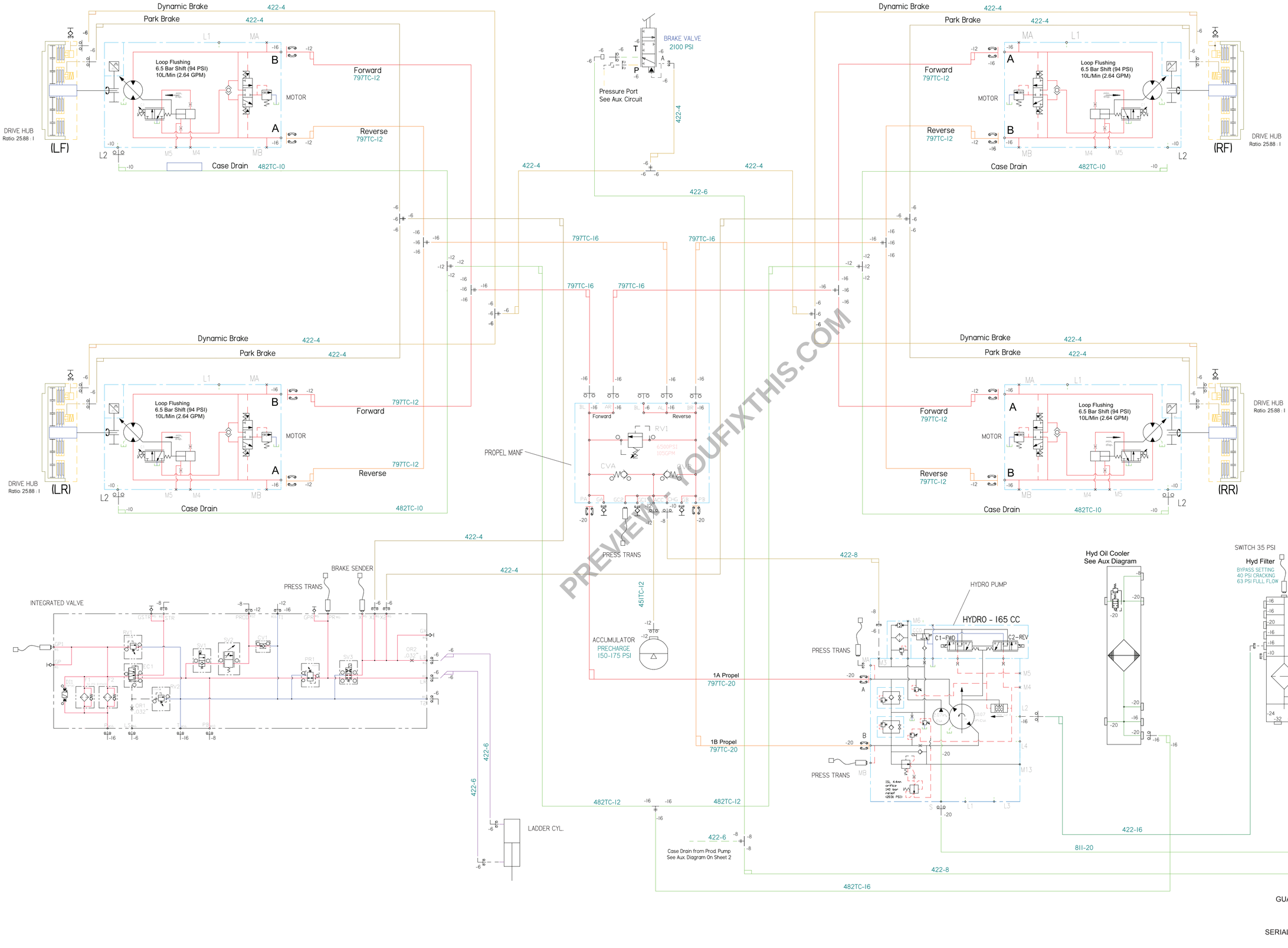
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SPECIAL TOOL INDEX

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380003480 [Service brake test plate]	Planetary drive and hub - Special tools	29.1 / 3
380003479 [Service brake snap ring installation tool]	Planetary drive and hub - Special tools	29.1 / 4
380003478 [Service brake piston & sealing ring press tool]	Planetary drive and hub - Special tools	29.1 / 4
380003481 [Assembly roll check and leak check tool]	Planetary drive and hub - Special tools	29.1 / 4
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380003478 [Service brake piston & sealing ring press tool]	Planetary drive and hub - Assemble	29.1 / 21
380003478 [Service brake piston & sealing ring press tool]	Planetary drive and hub - Assemble	29.1 / 21
380003480 [Service brake test plate]	Planetary drive and hub - Assemble	29.1 / 22
380003478 [Service brake piston & sealing ring press tool]	Planetary drive and hub - Assemble	29.1 / 22
380003480 [Service brake test plate]	Planetary drive and hub - Assemble	29.1 / 22
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GUARDIAN FRONT BOOM SPRAYER MODELS:
SP.310F & SP.285F
PROPEL CIRCUIT
HYDRAULIC SCHEMATIC
SERIAL NUMBER: HEKY310FYHF001227 AND ABOVE
RAC 48180594

48180594S1S1

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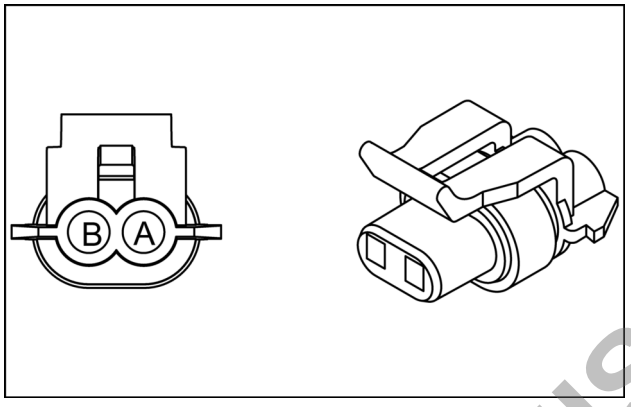
Product	Market Product	Engine
Guardian™ SP310F Model Year 2019: Model SP310F Tier 4B (final), Two-Wheel Steer (2WS), fixed axle, 1200 gallon tank [HEKY310FJKF000001 -]	North America	F4HFE614A*B006
Guardian™ SP310F Model SP310F Tier 4B (final), Two-Wheel Steer (2WS), fixed axle, 1200 gallon tank [HEKY310FYHF001227 - HEKY310FCJF999999]	North America	F4HFE614A*B006
Guardian™ SP310F Model Year 2019: Model SP310F Tier 4B (final), Four-Wheel Steer (4WS), fixed axle, 1200 gallon tank [HEKY310FJKF000001 -]	North America	F4HFE614A*B006
Guardian™ SP310F Model SP310F Tier 4B (final), Four-Wheel Steer (4WS), fixed axle, 1200 gallon tank [HEKY310FYHF001227 - HEKY310FCJF999999]	North America	F4HFE614A*B006
Guardian™ SP310F Model Year 2019: Model SP310F Tier 4B (final), Two-Wheel Steer (2WS), hydraulic axle, 1200 gallon tank [HEKY310FJKF000001 -]	North America	F4HFE614A*B006
Guardian™ SP310F Model SP310F Tier 4B (final), Two-Wheel Steer (2WS), hydraulic axle, 1200 gallon tank [HEKY310FYHF001227 - HEKY310FCJF999999]	North America	F4HFE614A*B006
Guardian™ SP310F Model Year 2019: Model SP310F Tier 4B (final), Four-Wheel Steer (4WS), hydraulic axle, 1200 gallon tank [HEKY310FJKF000001 -]	North America	F4HFE614A*B006
Guardian™ SP310F Model SP310F Tier 4B (final), Four-Wheel Steer (4WS), hydraulic axle, 1200 gallon tank [HEKY310FYHF001227 - HEKY310FCJF999999]	North America	F4HFE614A*B006

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Wire connectors - Component diagram 03 - Connectors 30 through 39

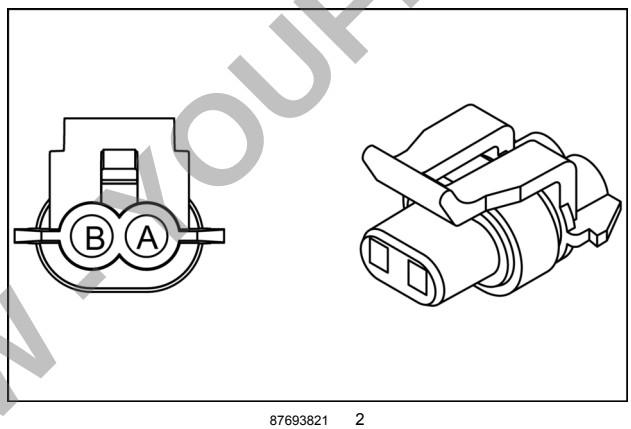
BM030 - 5 Section Truss Boom Harness



87693821 1

Pin number	Wire gauge/color	Circuit reference	Termination	Electrical schematic frame
A	18/TAN	L TILT (-)	**BM031-5T pin A BM546 pin 6**	**SHEET 06 Truss boom 5 section harness SHEET 01 Machine electrical schematic - Sheet 1**
B	18/WHT	L TILT UP	**BM546 pin 20**	

BM030 - 12 Section Mono/Truss Boom Harness



87693821 2

Pin number	Wire gauge/color	Circuit reference	Termination	Electrical schematic frame
A	18/TAN	L TILT (-)	**BM031-12MT pin A BM546-12MT pin 6**	**SHEET 12 Mono boom and truss boom 12 section harness SHEET 01 Machine electrical schematic - Sheet 1**
B	18/WHT	L TILT UP	**BM546-12MT pin 20**	

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3518 (DTC 2AC4) - Ambient temperature sensor voltage is lower than expected

Context:
The Electronic Control Unit (ECU) monitors the intake air temperature sensor signal circuit. If the ECU determines that the voltage in the intake air temperature sensor temperature signal circuit is lower than expected or if the machine is being operating in extremely low ambient conditions, then this fault will occur. If this fault occurs, the ambient temperature value will be frozen by the ECU at the last valid value or to a fixed replacement value of **38.96°** if the failure is validated. Before diagnosing this fault as an electrical failure, verify that this fault is active in normal operating ambient temperatures.

Cause:
The ECU has detected a voltage less than **200 mV** for longer than **500 ms** in the intake air temperature sensor temperature signal circuit.

Possible failure modes:

1. Extremely low ambient operating temperatures.
2. Faulty intake air temperature sensor temperature signal wire, short circuit to ground.
3. Faulty intake air temperature sensor, internal failure.
4. Faulty ECU, software.

Solution:

1. Verify the fault is present and active.

   Use the Electronic Service Tool (EST) to check the status of this fault.

   A. If the fault is present and active, then continue with **2**.

   B. If the fault is no longer present or if the fault is in an inactive state, then the fault may be intermittent and not currently active. Continue with step **4**.
2. Check the intake air temperature sensor temperature signal circuit for a short circuit to ground.

   Turn the ignition switch to the OFF position.

   Disconnect the intake air temperature sensor connector **X-9105**.

   Disconnect the ECU connector **X-9001**.

   Use a multimeter to perform the following continuity check :

From	To	Value
X-9001 pin 40	Chassis ground	There should be no continuity.
X-9001 pin 40	All other pins in connector **X-9001**	There should be no continuity.

   A. If there is continuity, there is short circuit to ground in the intake air temperature sensor wiring. Locate and repair the shorted conductor. Repair or replace the harness as required.

   B. If there is no continuity, then continue to step **3**.
3. Replace the intake air temperature sensor.

   Use the EST to verify that **3518 (DTC 2AC4) – Ambient temperature sensor voltage is lower than expected** has been resolved.

   A. If the fault has been resolved, then return the machine to service.

   B. If the fault has not been resolved, then check the ECU for the appropriate software and re-flash, if necessary.

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