Link Product / Engine

Product	Market Product	Engine
null 18x6, with cabin [HCCZ8270JDCN13409 -]	Latin America	F2CFA613P*A010
null 18x6, with cabin [ZBCN40989 -]	Latin America	F2CFA613P*A010
null 18x6, with cabin [HCCZ8295JDCN13409 -]	Latin America	F2CFA613N*A010
null 18x6, with cabin [ZBCN40989 -]	Latin America	F2CFA613N*A010
null 18x6, with cabin [HCCZ8325JDCN13409 -]	Latin America	F2CFA613J*A010
null 18x6, with cabin [ZBCN40989 -]	Latin America	F2CFA613J*A010
null 18x6, with cabin [HCCZ8355JDCN13409 -]	Latin America	F2CFA613F*A010
null 18x6, with cabin [ZBCN40989 -]	Latin America	F2CFA613F*A010
null 18x6, with cabin [HCCZ8385JDCN13409 -]	Latin America	F2CFA613C*A010
null 18x6, with cabin [ZBCN40989 -]	Latin America	F2CFA613C*A010

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Engine - Remove

T8.270	LA
T8.295	LA
T8.325	LA
T8.355	LA
T8.385	LA

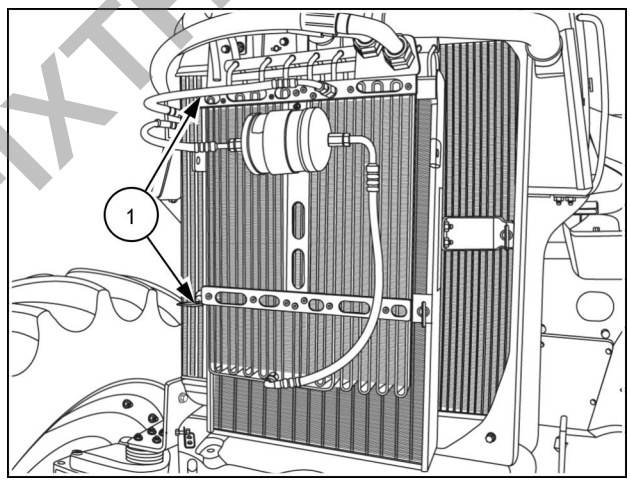
Prior operation:
Disconnect the batteries — **Battery - Disconnect (55.302)**
Prior operation:
Remove the hood — **Hood - Remove (90.100)**
Prior operation:
Recover the refrigerant — **Air conditioning - Recover (50.200)**
Prior operation:
Drain the coolant — **Engine cooling system - Emptying (10.400)**

ATTENTION: *For tractors equipped with front PTO/hitch, refer to steps **81**– **96** for additional disassembly instructions.*

NOTE: *Clean all fittings before disconnecting.*

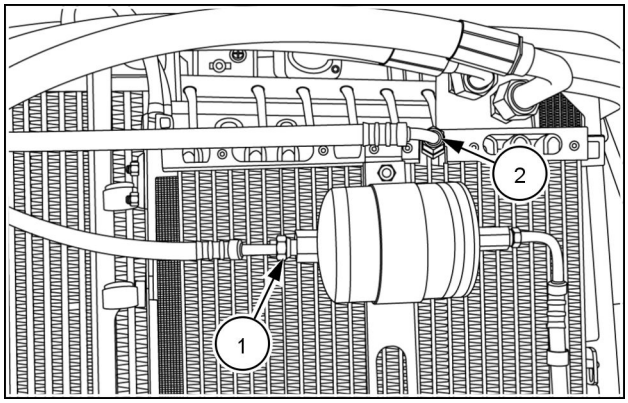
NOTE: *Cap or plug all lines and ports when disconnecting hydraulic components.*

1. Remove the nuts **(1)** securing the condenser/fuel cooler.



RCPH10CCH054BAB 1

2. Disconnect the refrigerant hose from the receiver/dryer **(1)** and the condenser outlet hose **(2)**.



RCPH10CCH896AAB 2

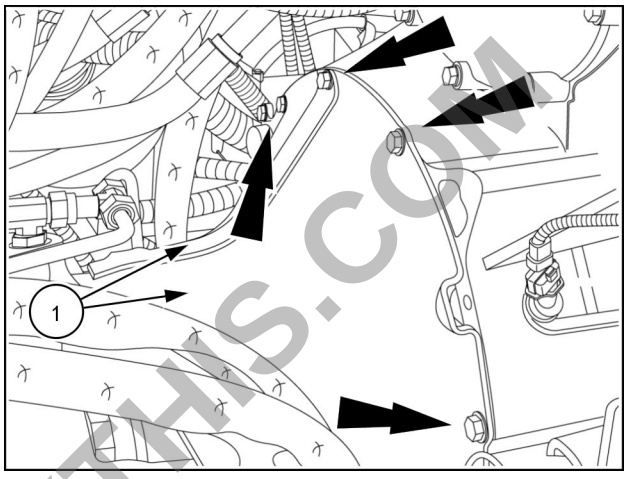
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Drive shaft - Remove - Engine to drop box

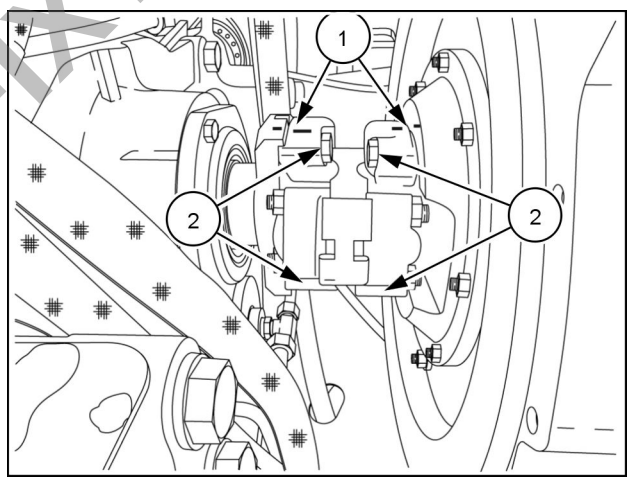
T8.270	LA
T8.295	LA
T8.325	LA
T8.355	LA
T8.385	LA

1. Remove the bolts securing the two halves of the coupler shield. Remove the shield halves **(1)**.



RCPH11CCH775BAB 1

2. Mark the coupler if it is to reinstalled and remove the four mounting bolts from each end. Remove the coupler.



RCPH11CCH781BAB 2

Next operation:
Drive shaft - Install - Engine to drop box (19.100) .

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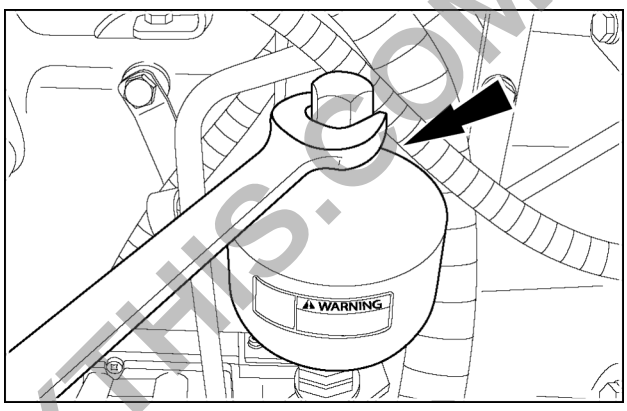
Accumulator - Charging

T8.270	LA
T8.295	LA
T8.325	LA
T8.355	LA
T8.385	LA

Prior operation:
Accumulator - Remove (21.105)

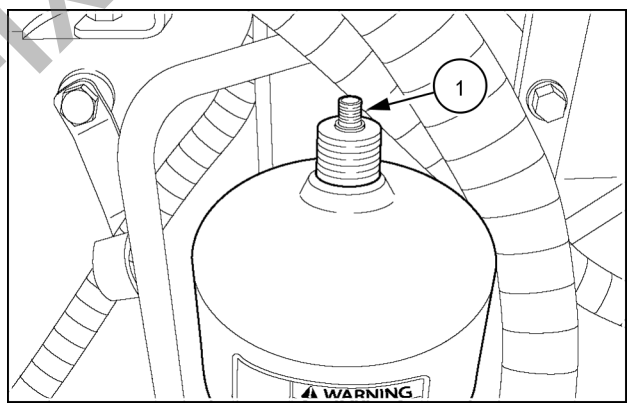
1. Thoroughly clean the top of the accumulator. Remove the service valve protective cap.

NOTE: *The following steps show the fuel tank removed; this is not required to recharge the accumulator.*



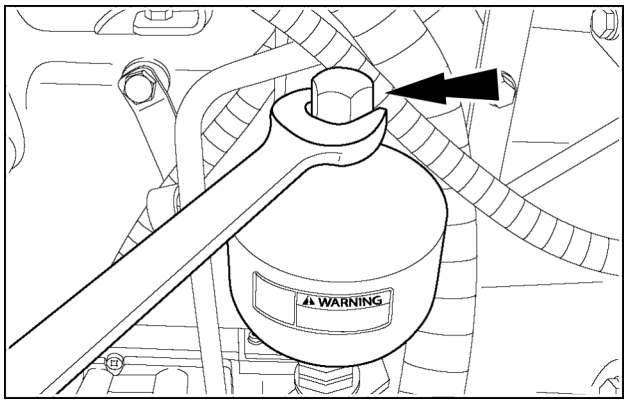
RCPH08CCH221AAB 1

2. Attach the special tool **380001737** gauge set to the accumulator service valve **(1)**.



RCPH08CCH222AAB 2

3. Recharge the accumulator with nitrogen gas to **9.7 - 10.3 bar** (**141 - 150 psi**).
4. Remove the recharge hose when the accumulator charge is within range. Install and tighten the protective cap on the service valve.



RCPH08CCH221AAB 3

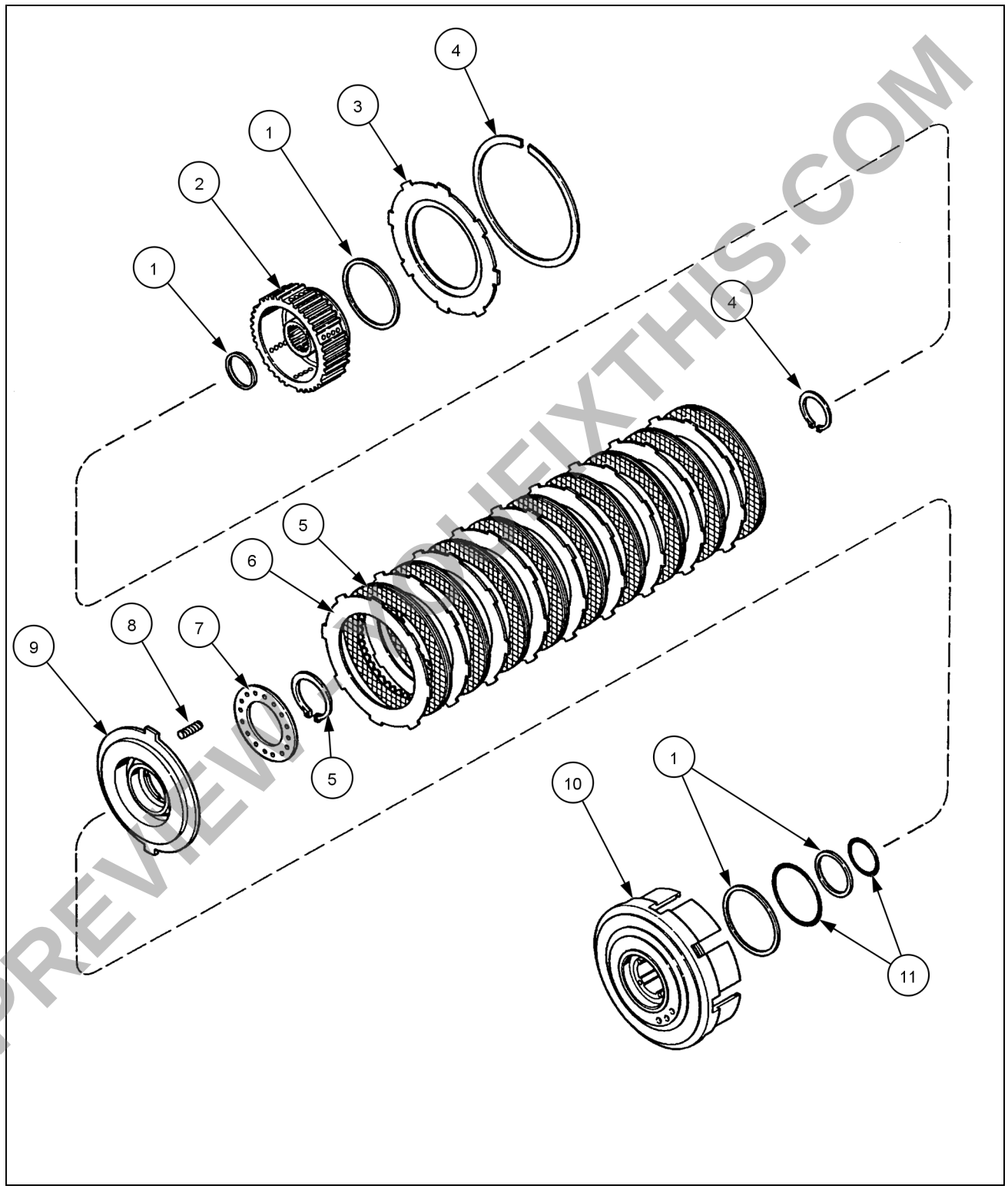
Next operation:
Accumulator - Install (21.105)

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Master clutch - Exploded view

T8.270	LA
T8.295	LA
T8.325	LA
T8.355	LA
T8.385	LA



RCPH07CCH002HAA 1

1. Seal	5. Friction plate	9. Piston
2. Hub	6. Separator plate	10. Clutch carrier

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Electro-hydraulic control - Dynamic description - MFD system and controls

T8.270	LA
T8.295	LA
T8.325	LA
T8.355	LA
T8.385	LA

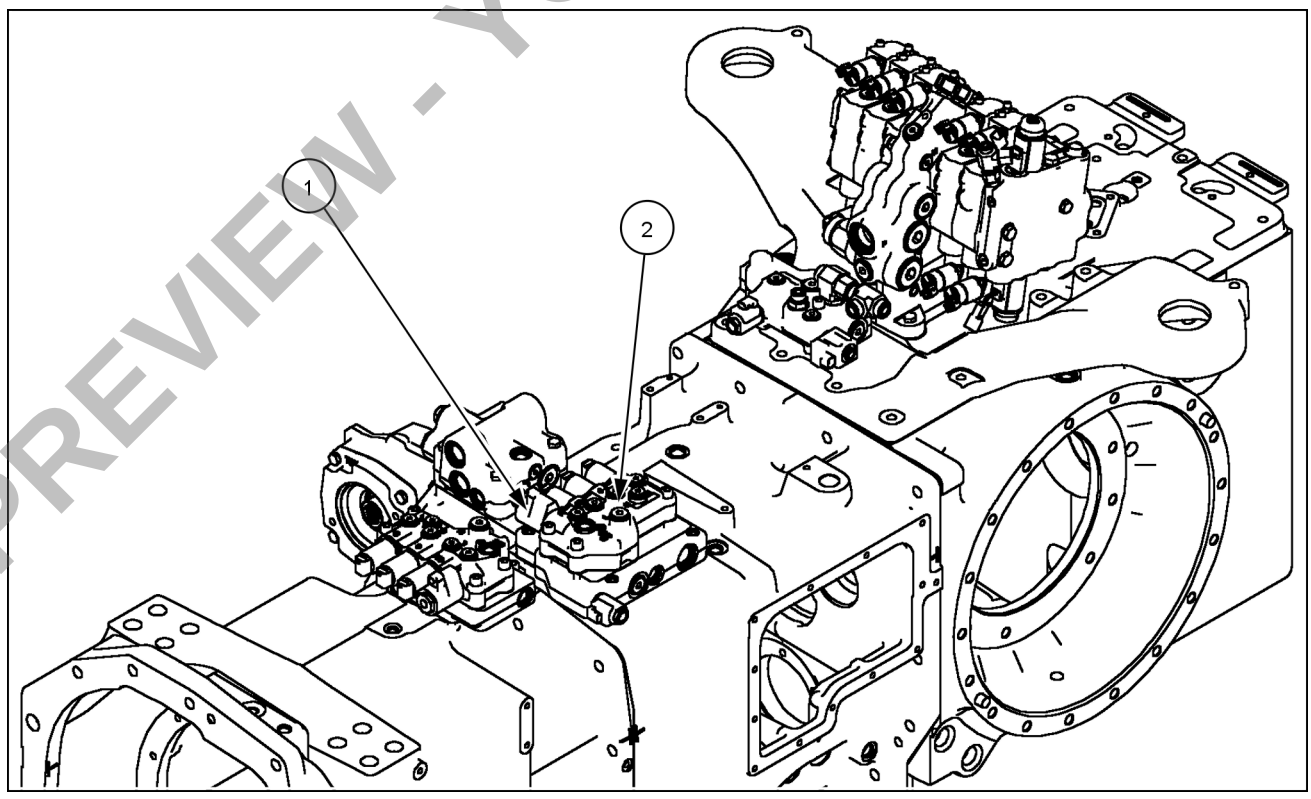
⚠ WARNING

Unexpected machine movement!
When using the engine to rotate rear wheels that are raised off the ground, always perform one of the following: Lift and support both front wheels completely off the ground OR disconnect the front wheel drive shaft at the transmission end.
Failure to comply could result in death or serious injury.

W0150A

The mechanical front wheel drive (MFD) system includes:

- the MFD axle,
- a drive shaft,
- the MFD clutch,
- the MFD control valve,
- the MFD control switch,
- the brake pedal switches,
- the true ground speed circuit,
- the hitch position circuit,
- the transmission speed circuit,
- and electronic controllers (through the data bus).



RCPH07CCH042FAE 1

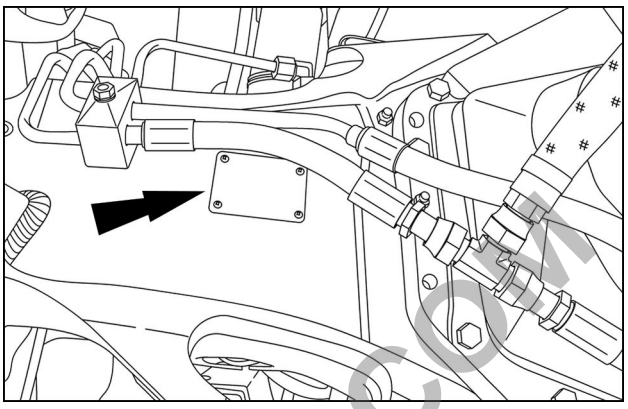
Because the MFD is electronically controlled, automatic operation is possible.

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Four-Wheel Drive (4WD) axle - Identification

To verify the make and model of the front axle on your tractor:

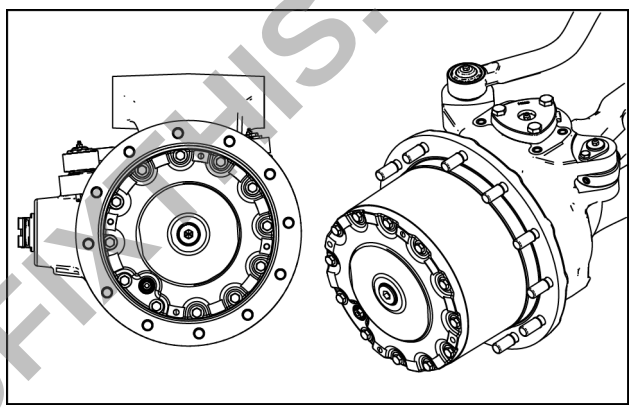
1. Check the front axle serial number plate. The plate will clearly indicate if the axle was built by New Holland (CNH) or by Dana.
2. Compare the hub on your front axle to the model illustrations which follow for the maker identified on the serial number plate.



RAIL13TR00508AA 1

New Holland 4.75 fixed and saddle suspended front axle

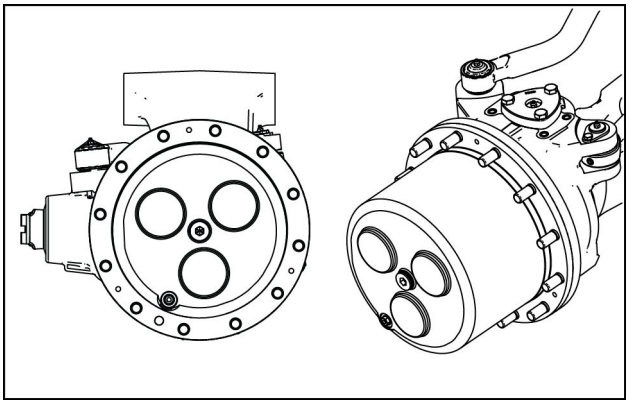
NOTE: *The suspended axle has a vertical hydraulic cylinder extending from the axle front to the saddle on each side of the tractor.*



RAIL12TR03300AA 2

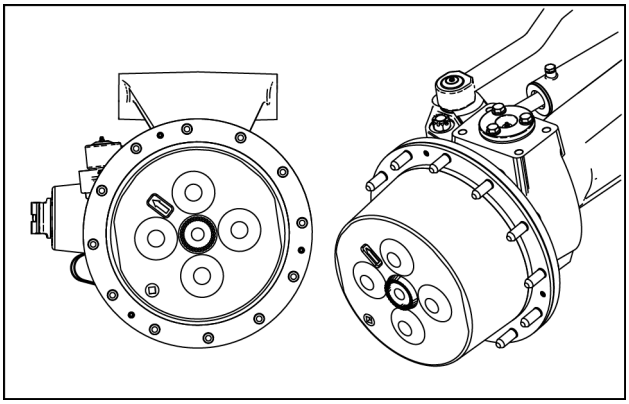
New Holland 5.0 fixed and saddle suspended front axle

NOTE: *The suspended axle has a vertical hydraulic cylinder extending from the axle front to the saddle on each side of the tractor.*



RAIL12TR03298AA 3

Dana 12 bolt heavy duty fixed front axle



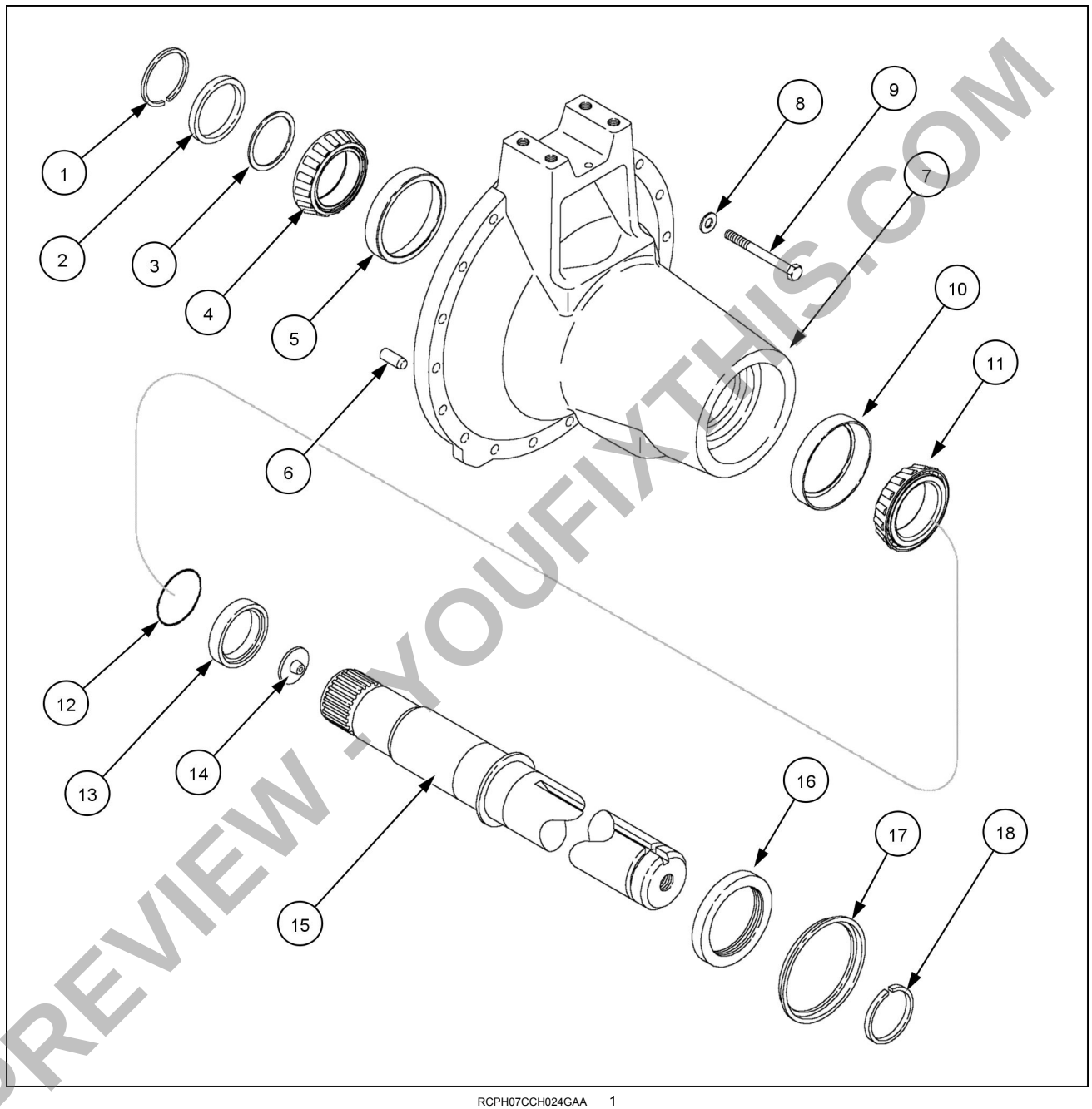
RAIL12TR03303AA 4

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Rear axle housing - Exploded view

T8.270	LA
T8.295	LA
T8.325	LA
T8.355	LA
T8.385	LA

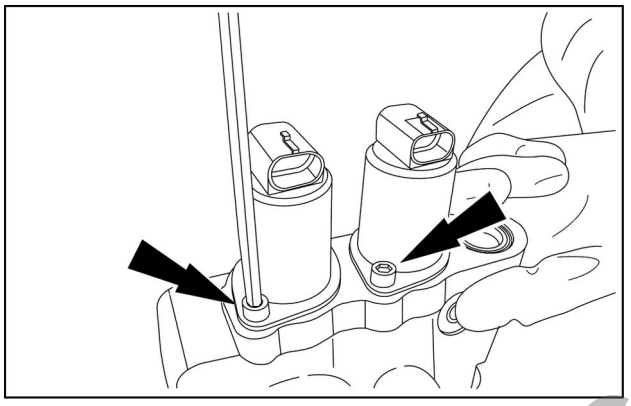
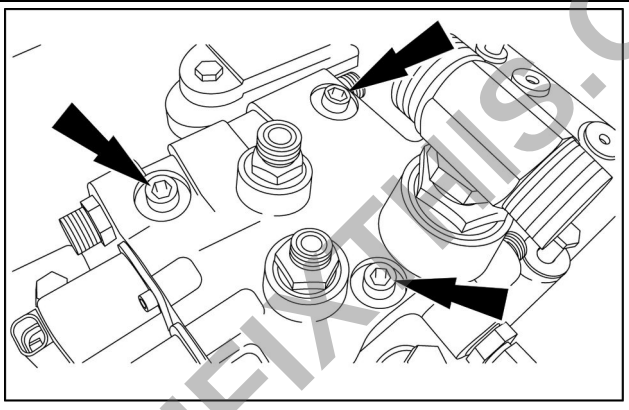


RCPH07CCH024GAA 1

1. Retaining ring	7. Axle housing	13. Axle bushing
2. Thrust ring	8. Washer	14. Axle wear insert
3. Shims	9. Bolt	15. Axle shaft
4. Bearing cone	10. Bearing cone	16. Oil seal
5. Bearing cup	11. Bearing cup	17. Wear sleeve, if needed
6. Dowel pin	12. O-ring	18. Retaining ring

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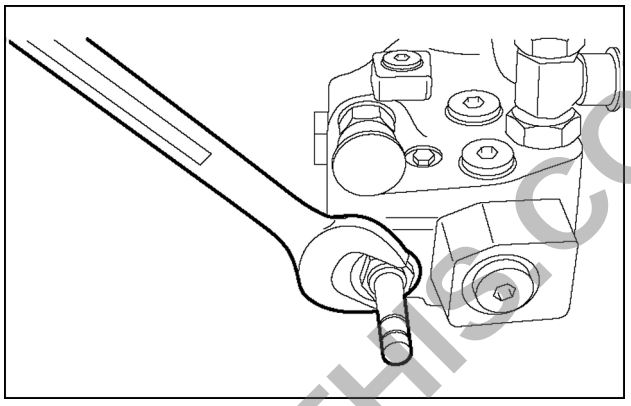
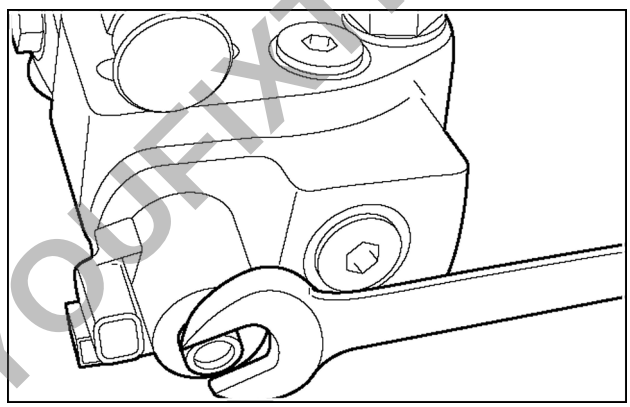
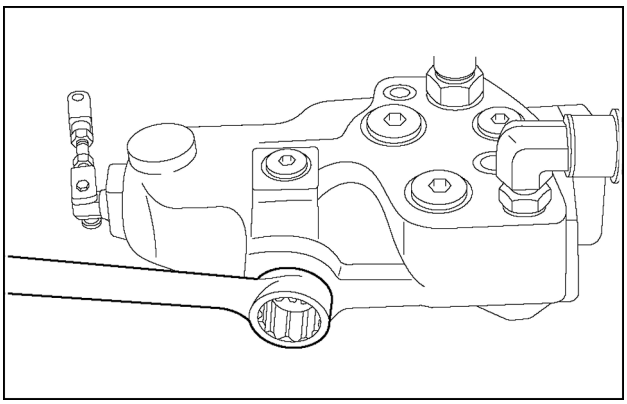
Solenoid valve retaining plate screws	**8 - 10 N·m**	 RAIL13TR00433AA 2	**6 - 7 lb ft**
Valve mounting bolts	**53 N·m**	 RAIL13TR00424AA 3	**39 lb ft**

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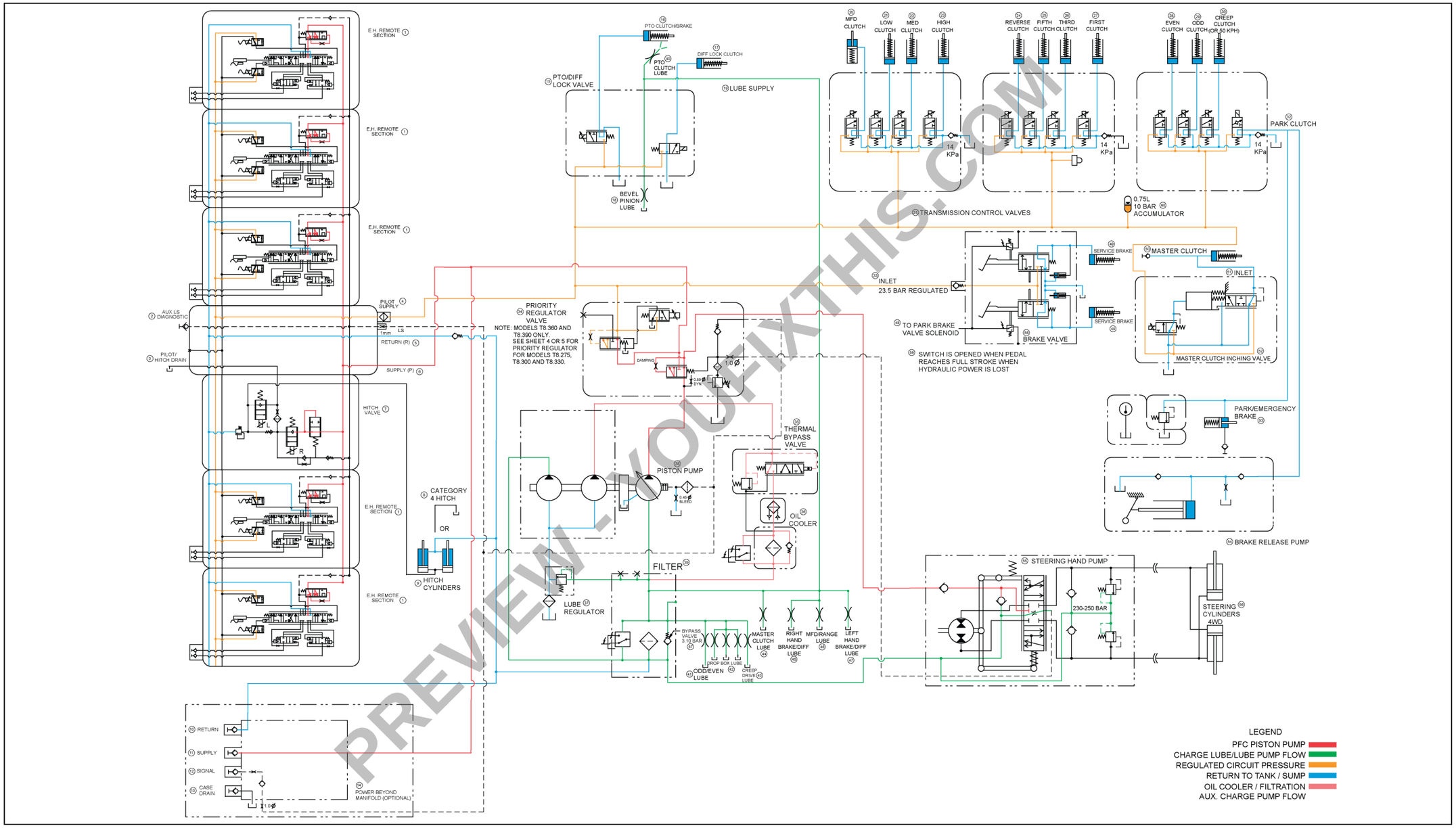
Parking brake control valve - Torque - Emergency brake

T8.270	LA
T8.295	LA
T8.325	LA
T8.355	LA
T8.385	LA

Component	N·m	Identification	lb-ft
Solenoid valve cartridge.	**18 - 20 Nm**	 RCPH08CCH249AAB 1	**13 - 15 lb ft**
Solenoid valve coil nut.	**5 - 8 Nm**	 RCPH08CCH247AAB 2	**44 - 71 lb in**
Solenoid plug.	**18 - 20 Nm**	 RCPH08CCH251AAB 3	**13 - 15 lb ft**

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RAIL12TR02135JA 1

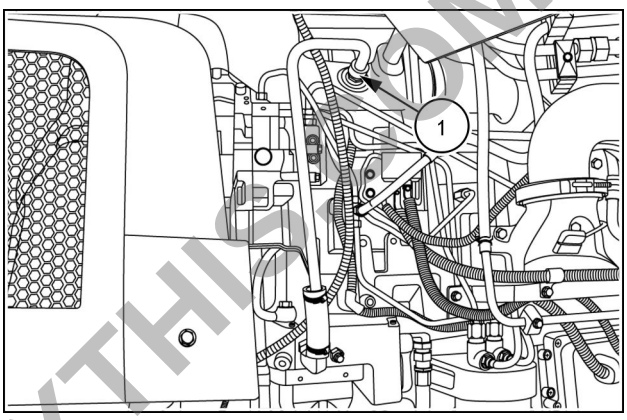
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Pneumatic compressor - Remove

T8.270	LA
T8.295	LA
T8.325	LA
T8.355	LA
T8.385	LA

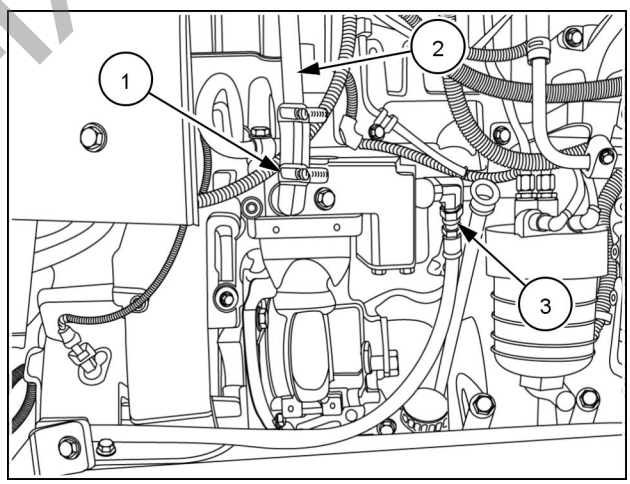
Prior operation:
Engine cooling system - Emptying (10.400)

1. Disconnect the fitting at the hose coupler **(1)** for the air inlet pipe.



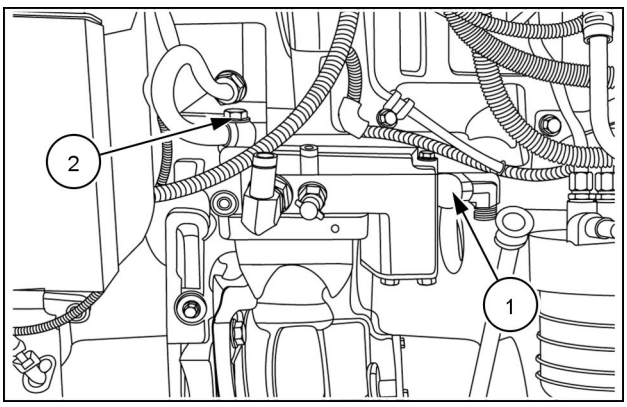
RCPH10CCH873AAB 1

2. Loosen the hose clamp **(1)**. Remove the pipe **(2)** and set aside. Disconnect the air outlet fitting **(3)**.



RCPH10CCH045BAB 2

3. Disconnect the coolant inlet **(1)** and outlet **(2)** banjo fittings.



RCPH10CCH867AAB 3

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Rear three-point hitch - Dynamic description

T8.270	LA
T8.295	LA
T8.325	LA
T8.355	LA
T8.385	LA

Three Point Hitch

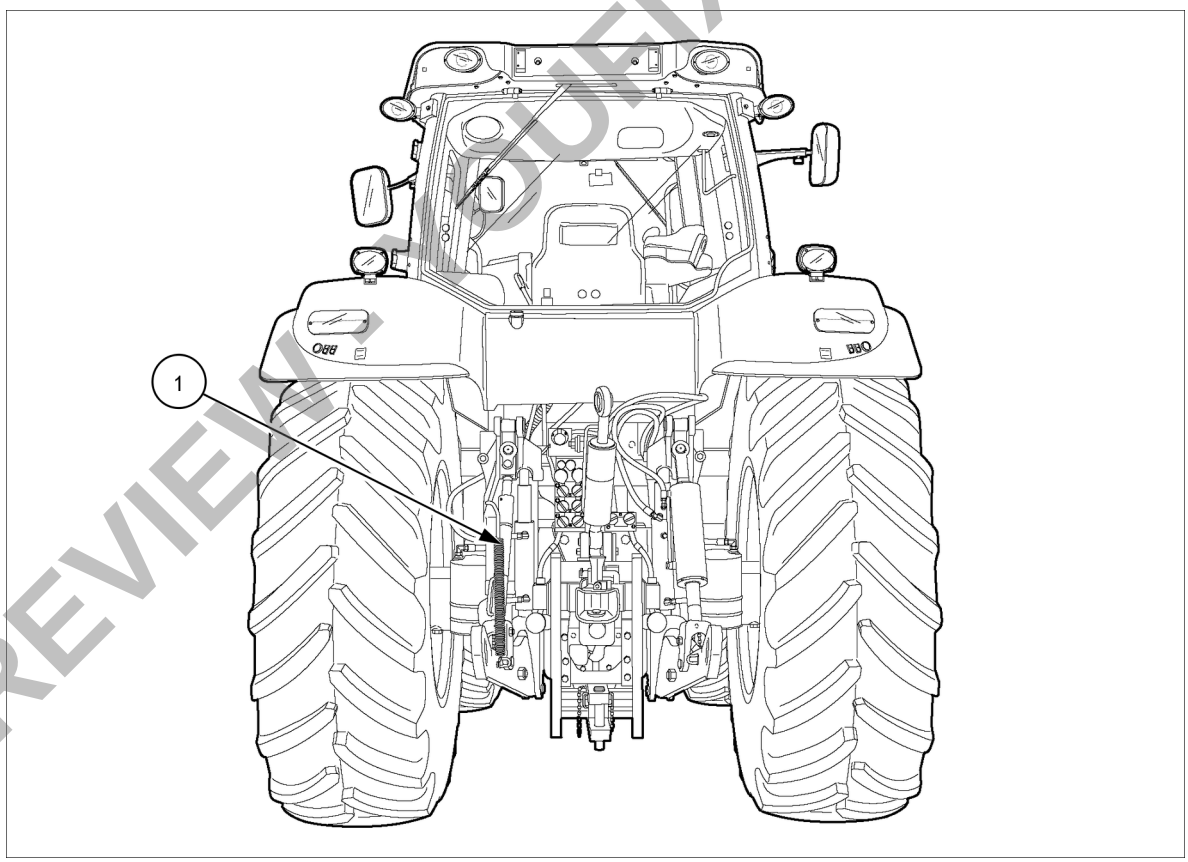
The standard three point hitch is a convertible Category III/IIIN hitch or an optional Category IVN hitch (The Cat IVN hitch is standard on the T8.390.) The hitch is controlled with an electronic hitch system which provides position control of soil engaging implements. The hitch will accept all mounted implements conforming to SAE, ASABE standard dimensions.

A hitch coupler can be used with the three point hitch to quickly connect and disconnect implements.

The single acting hydraulic cylinders are mounted externally and are supplied from the hitch control valve. The hitch control valve is mounted on the right hand side of remote valve manifold, at the rear and top of the transmission.

The hitch control valve is supplied by the pressure and flow compensating (PFC) hydraulic system. The PFC supply extends the cylinders and raises the hitch. Tractor control unit (TCU) activates the lower solenoid to lower the hitch without activating the PFC system.

The tractor control unit (TCU) supplies current to the raise or lower solenoid based on commands from the operator and signals from the hitch and other tractor systems.



RCPH11CCH006GAA 1

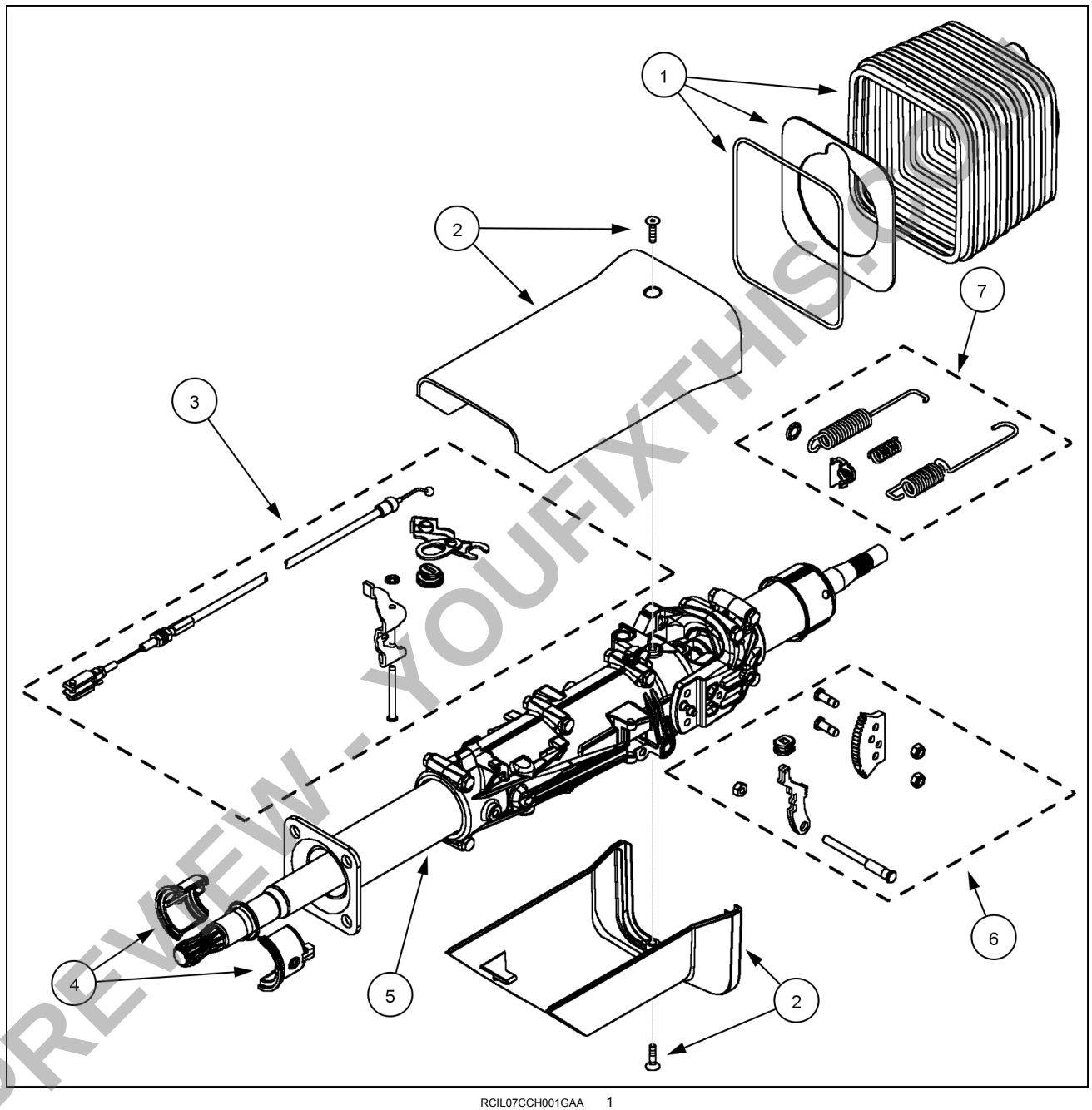
1. Rear hitch

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Steering column - Exploded view

T8.270	LA
T8.295	LA
T8.325	LA
T8.355	LA
T8.385	LA



RCIL07CCH001GAA 1

1. Bellows set
2. Cover set
3. Release device set
4. Bearing set
5. Steering column
6. Segment set
7. Spring set

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Heater control valve - Dynamic description

T8.270	LA
T8.295	LA
T8.325	LA
T8.355	LA
T8.385	LA

Operational check

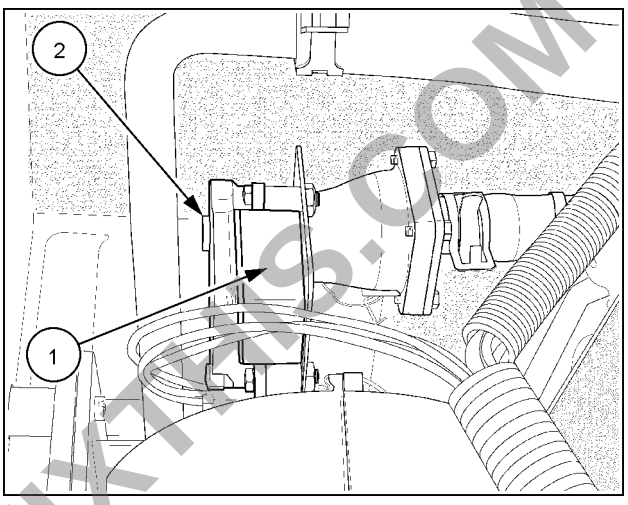
The controller opens or closes the heater control valve **(1)** based on the operator selected input at the temperature control and the temperature sensed at the cab and evaporator sensors.

The heater control valve can fail mechanically in any position: open, closed or anywhere in the middle.

To confirm proper valve operation, observe the slot **(2)** on the front of the valve. Rotation of the slot must mirror the movement of the temperature control.

The slot must rotate fully clockwise when the control is turned fully clockwise; the slot must rotate fully counterclockwise when the slot is turned fully counterclockwise.

If the valve does not mirror control movement or does not move, perform the valve motor electrical test.

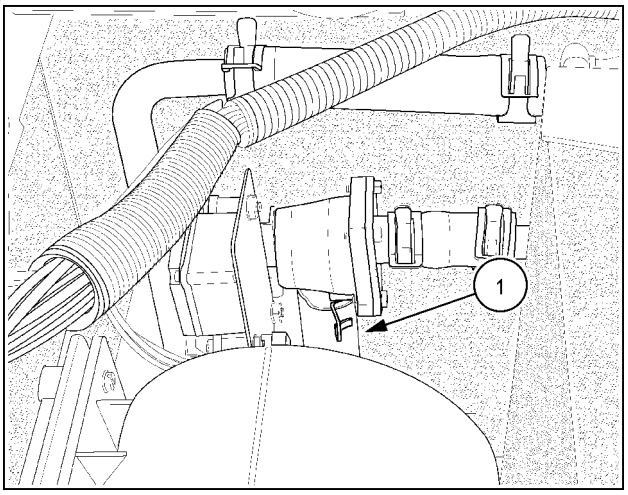


RCPH07CCH452ABC 1

Valve “leak through”

A common problem with the valve is hot coolant flow when cab cooling is desired. This usually occurs by a when a valve does not close completely. To test for leak through from the valve:

1. Operate the A/C system at maximum cooling and blower speed for 15 minutes. See conditions for performance testing. (Do not clamp off the heater supply or return lines at the engine for this test.)
2. Install a stem type thermometer in a mid-cab louver, and record the temperature.
3. Clamp off the coolant supply line **(1)** before the valve with a vise grip pliers. (The supply line connects at the bottom of the valve.) Wait a few minutes and check the thermometer. If the temperature drops, valve leak through is the problem; replace the valve.



RCPH07CCH451ABC 2

Power, signal and ground circuit

The controller feeds **12 V** to the heater valve motor from pin 4 on the control module 36-pin connector **ATC_CM** to pin 10 of motor connector **ATC_J17** .

The control signal (**1.5 - 11.5 V**) is fed from the controller on pin 3 of connector **ATC_J17** to pin 8 of motor connector **ATC_J17** .

The motor is grounded from pin 7 at the motor connector **ATC_J17** to HVAC ground.

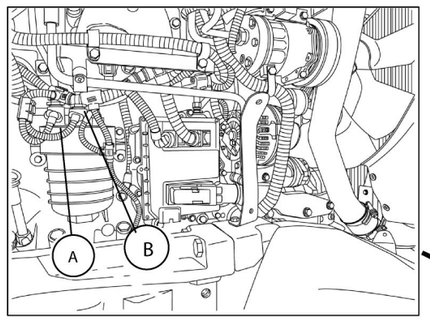
Possible failure modes

1. Motor failure or valve physical failure.
2. Open condition in power, signal or ground to heater control valve.

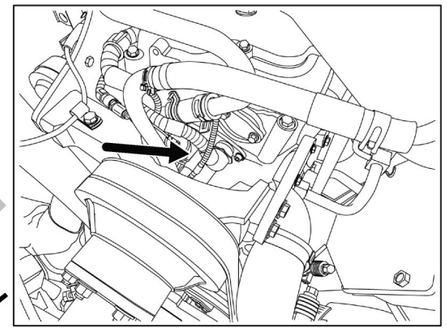
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ENGINE VIEW

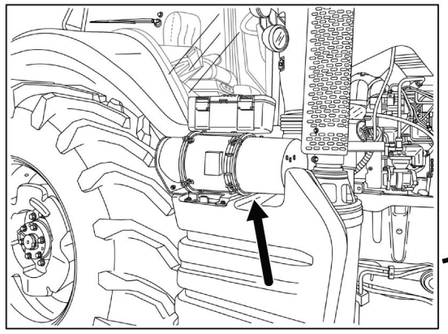
1. FUEL TEMP (A) BLOCKAGE SENSOR (B)



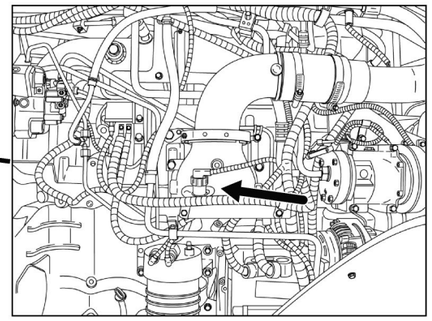
2. COOLANT TEMP SENSOR

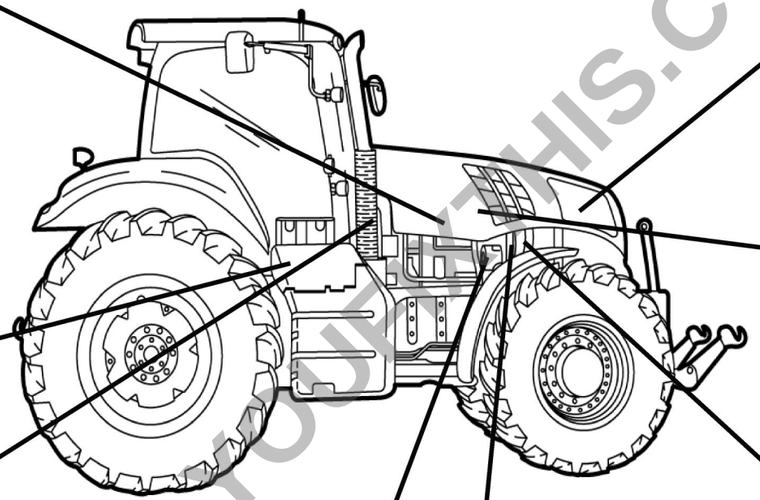


3. AIR CLEANER

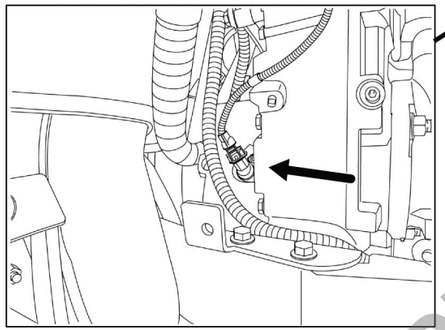


4. INTAKE MANIFOLDAIR TEMP
BOOST PRESSURE SENSOR

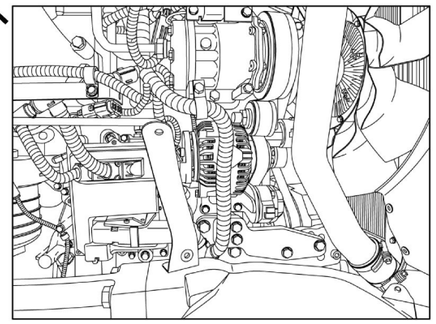




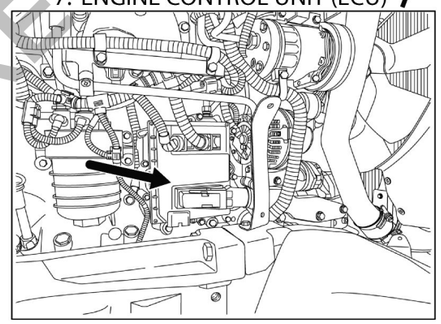
5. ENGINE CRANK SHAFT SENSOR



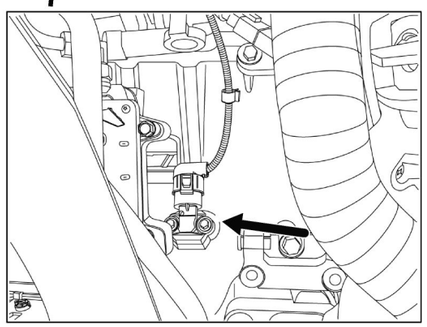
6. ALTERNATOR



7. ENGINE CONTROL UNIT (ECU)



8. OIL PRESSURE SENSOR



RAIL12TR01457JA 1

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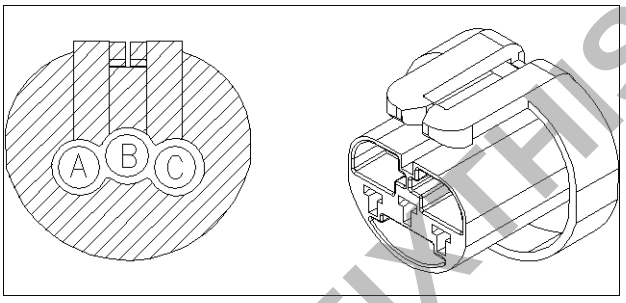
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Wire connectors - Component Diagram 00 - Connectors 0–9

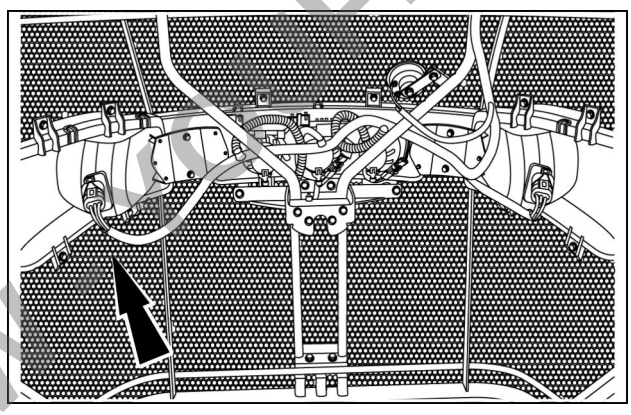
T8.270	LA
T8.295	LA
T8.325	LA
T8.355	LA
T8.385	LA

CONNECTOR X-002 - LEFT HAND HEADLIGHT

CONNECTOR X-002 - LEFT HAND HEADLIGHT			
PIN NUMBER	**WIRE NUMBER**	**CIRCUIT REFERENCE**	**ELECTRICAL SCHEMATIC FRAME**
A	742A (VT)	LEFT LOW BEAM B+	
B	170J (BK)	GROUND	
C	743A (VT)	LEFT HIGH BEAM B+	



87697641 1



RCPH11CCH066AAB 2

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POWER DISTRIBUTION

Sheet 4 FB-101F — RD 3.0 CB-101F
Sheet 6 FB-101W — RD 1.0 CB-101W
Sheet 5 FB-101G — RD 1.0 CB-101G
Sheet 3 FB-101C — RD 2.0 CB-101C
Sheet 4 FB-101B — RD 1.0 CB-101B
Sheet 3 FB-101M — RD 3.0 CB-101M
Sheet 4 FB-101E — RD 1.0 CB-101E

SP-101N
UNSWITCHED B+
RD 8.0 CB-101N

X-010 48
48 48
RD 8.0 CH-101CC

F-100 (7)
MAIN FUSE-CAB
X-134 — 125.0 Amps — X-238
RD 19.0 BP-667

X-2100A

Sheet 1 WB-101A — RD 13.0 CB-101A
43 43
RD 13.0 CH-101AA

Sheet 6 FB-101R — RD 3.0 CB-101R
Sheet 18 WB-101S — RD 0.8 CB-101S
Sheet 3 FB-975A — RD 0.8 CB-975A
Sheet 3 FB-101J — RD 3.0 CB-101J
Sheet 4 FB-101H — RD 2.0 CB-101H
Sheet 3 FB-101L — RD 2.0 CB-101L
Sheet 3 FB-101K — RD 3.0 CB-101K
Sheet 12 WB-101CL — RD 0.8 CB-101CL

SP-101P
UNSWITCHED B+
RD 13.0 CB-101P

60 60
RD 13.0 CH-101BB

TO X-238 (1)
MAIN CAB FUSE
RD 19.0 BP-667

(2)
CUT OFF SWITCH
(Only Machinery Directive)
1.1 — 1

WB-897 Sheet 6
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RD 81.0 CS-654 — BK 81.0 CS-654 — RD 81.0 CS-541 — RD 81.0 CS-542
TO SPLICE B1
TO BATTERY POSITIVE TERMINAL (3)

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(6) Battery
BK 81.0 BN-654
CLEAN GROUND (4)

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RD 5.0 CH-620B — WB-620B Sheet 10
RD 5.0 CH-620H — WB-620H Sheet 10
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X-138A
SWITCHED B+
TO CAB
POWER RELAY 1 & 3
STUD ON PWR
DIST. MOD. (307)

OR 3.0 CB-102A — WB-102A Sheet 71
OR 5.0 CB-102B — WB-102B Sheet 2
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OR 1.0 CB-2154A — FB-2154A Sheet 3
WB-013 Sheet 2
WB-012 Sheet 2

X-138C
SWITCHED B+
TO CAB
POWER RELAY 1 & 3
STUD ON PWR
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OR 3.0 CB-163A — WB-163A Sheet 54
OR 3.0 CB-163B — WB-163B Sheet 71
OR 3.0 CB-163C — WB-163C Sheet 71
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OR 3.0 CB-164A — WB-164A Sheet 24
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X-138B
SWITCHED B+
TO CAB
POWER RELAY 2
STUD ON PWR
DIST. MOD. (308)

OR 3.0 CB-103B — FB-103B Sheet 5
OR 2.0 CB-103C — FB-103C Sheet 6
OR 3.0 CB-103E — FB-103E Sheet 3
OR 2.0 CB-103F — FB-103F Sheet 4
OR 3.0 CB-103G — FB-103G Sheet 3
OR 2.0 CB-103K — FB-103K Sheet 4
OR 2.0 CB-103S — FB-103S Sheet 4
OR 2.0 CB-103DS — WB-103DS Sheet 12
OR 3.0 CB-2152A — FB-2152A Sheet 6
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UNSW B+
EXTERNAL POWER
STUD
X-019
X-121 A
RD 3.0 — RD 2.0 CH-626A — WB-626A Sheet 10

X-240
UNSWITCHED B+
TO STUD ON
POWER DISTRIBUTION
MODULE (240)

RD 13.0 CB-101A — WB-101A Sheet 1
FB-011 Sheet 2
FB-012 Sheet 2
FB-013 Sheet 2

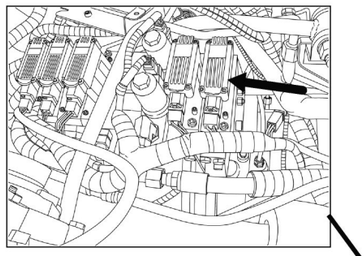
SHEET 1

RAIL13TR00758JA 1

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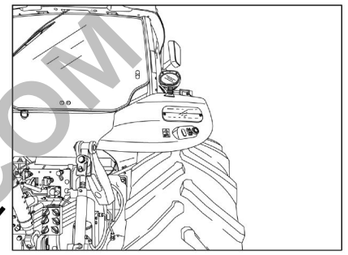
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9. HITCH VALVE SOLINOIDS

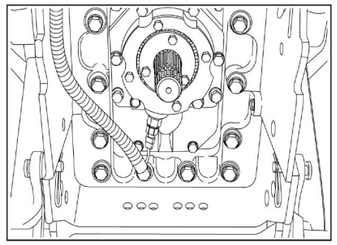


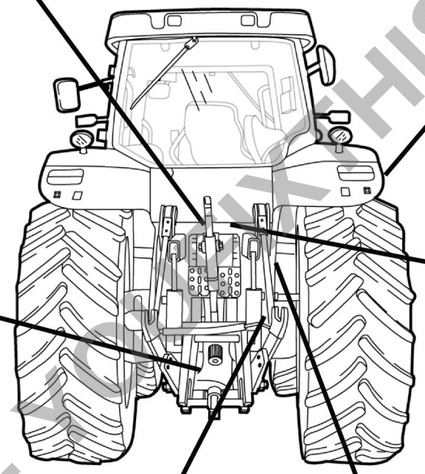
REAR VIEW

10. RIGHT SIDE FENDER REMOTE SWITCH

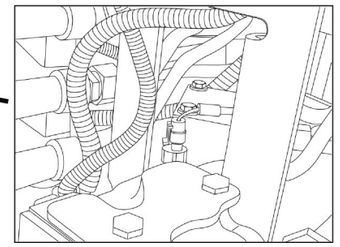


11. DUAL SPEED PTO SENSOR

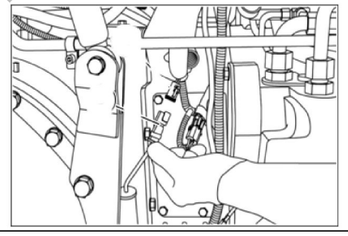




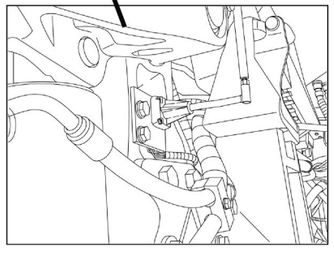
12. SINGLE SPEED PTO SENSOR



13. RIGHT HAND DRAFT PIN CONNECTOR



14. ROCK SHAFT POTENTIOMETER



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Fault code index

Message	Description	Controller
10001	Front suspension pump-not-tank solenoid valve open circuit or short to ground	
10002	Front suspension rod-side solenoid valve open circuit or short to ground	
10003	Front suspension piston-side solenoid valve open circuit or short to ground	
10004	Front suspension position sensor out of range high	
10005	Front suspension position sensor out of range low	
10006	Front suspension will not raise	
10007	Front suspension will not lower	
10008	Front suspension piston pressure sensor out of range high	
10009	Front suspension piston pressure sensor out of range low	
10010	Front suspension rod pressure sensor out of range high	
10011	Front suspension rod pressure sensor out of range low	
10012	Front suspension rod side pressure cannot raise the axle	
10013	Front suspension piston side pressure will not raise the axle	
10014	Front suspension not calibrated	
10015	Front suspension lock valve solenoid open circuit or short to ground	
10016	Front suspension enable switch error	
10017	Front suspension switch CAN data not available	
10018	Front suspension pump-not-tank solenoid over current	
10020	Front suspension piston solenoid over current	
10021	Front suspension lock out solenoid over current	
10022	12VM voltage supply low	
10023	12VF3 voltage supply is low	
10024	12VF1 voltage supply is low	
1002	Raise hitch valve coil short to 12 volts or raise hitch valve coil circuit failure	
1003	Hitch raise solenoid failed open or shorted to ground	
1004	Lower hitch valve coil short to 12 volts	
1005	Lower hitch valve coils - open or short to ground	
1006	Electronic draft control low side driver stuck on failure	
1007	Low side driver watchdog test failed	
1008	Low side of raise solenoid connected permanently to ground	
1009	Low side of lower solenoid connected permanently to ground	
1011	Tractor Controller Unit is disconnected from the CAN bus	

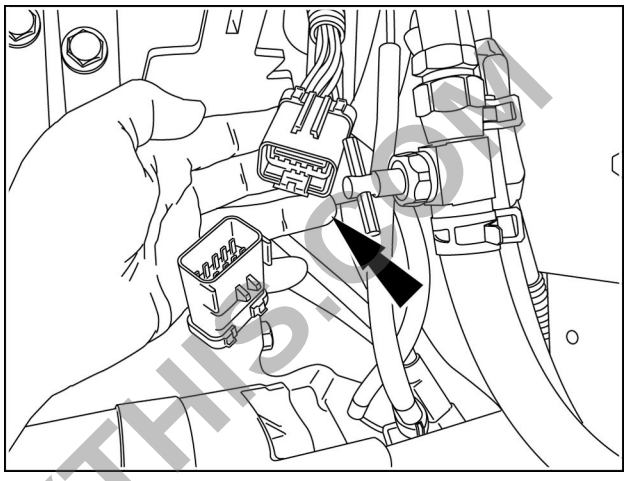
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Hood - Remove

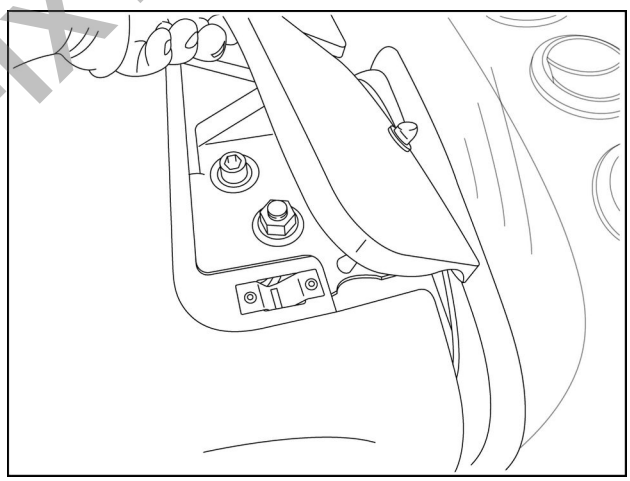
T8.270	LA
T8.295	LA
T8.325	LA
T8.355	LA
T8.385	LA

1. Disconnect the hood lighting harness connector.



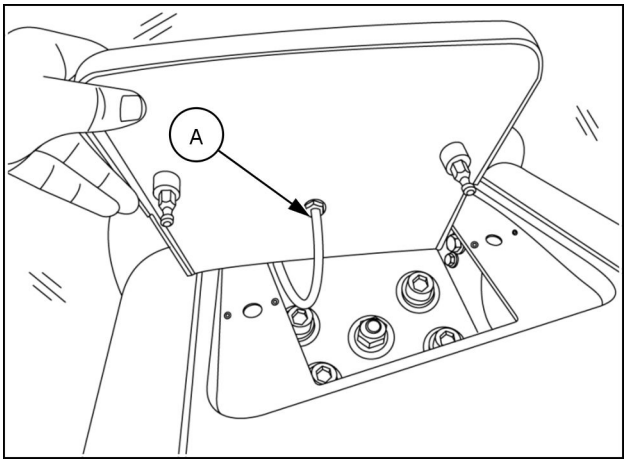
RCPC11CCH701AAB 1

2. Remove the cover to access the support attaching bolts.



RCPH11CCH687AAB 2

3. Disconnect the supply hose **(A)** for the windshield washer nozzle. Set the cover aside.



RCPH10CCH822AAB 3

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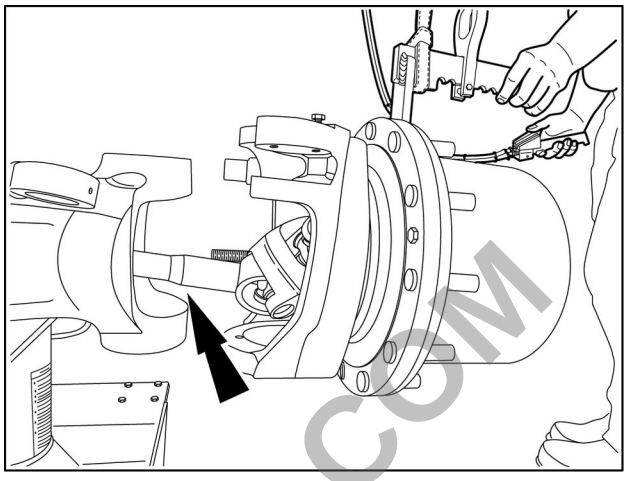
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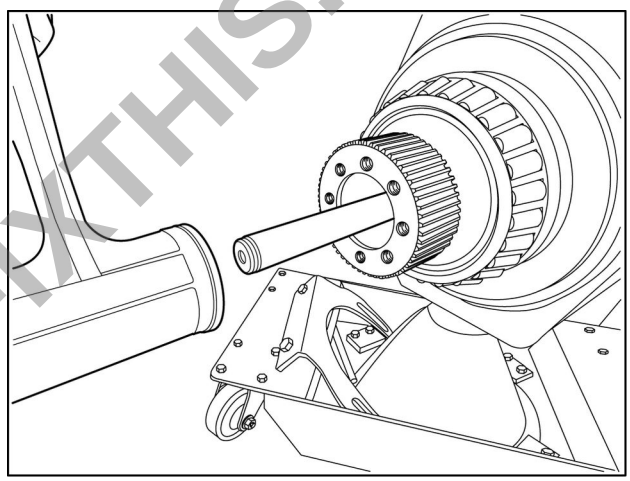
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12. Remove the steering knuckle. If the planetary hub was not removed be prepared to catch the axle shaft so it does not damage the axle shaft seal.



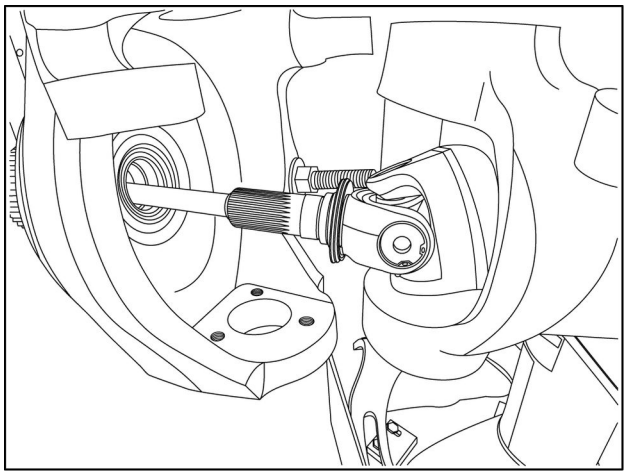
RAIL12TR01936AA 12

13. If the planetary hub and the sun shaft were removed it may be necessary to tap on the axle shaft to remove the steering knuckle.



RAIL12TR01954AA 13

14. Remove the steering knuckle keeping the axle shaft in place.



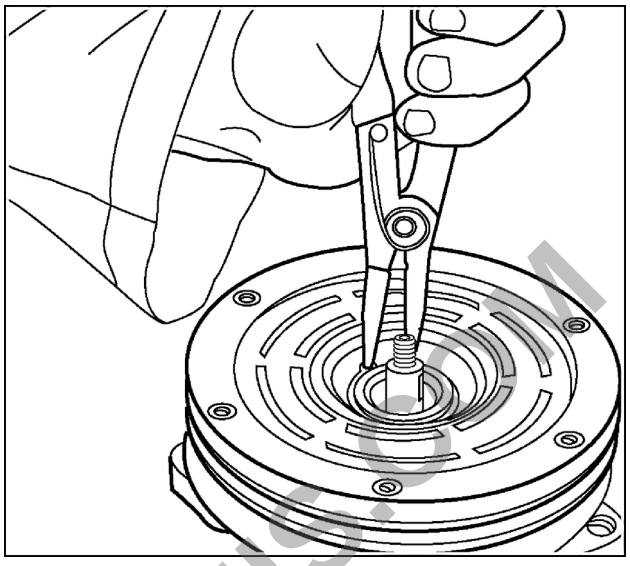
RAIL12TR01955AA 14

Next operation:
Steering knuckle and king pin - Assemble - New Holland 5.0 front axles (25.108)

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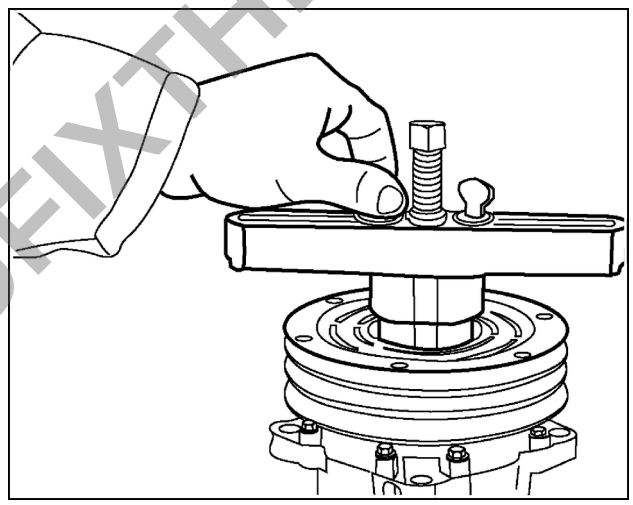
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10. Remove the external snap ring for the bearing and pulley assembly.



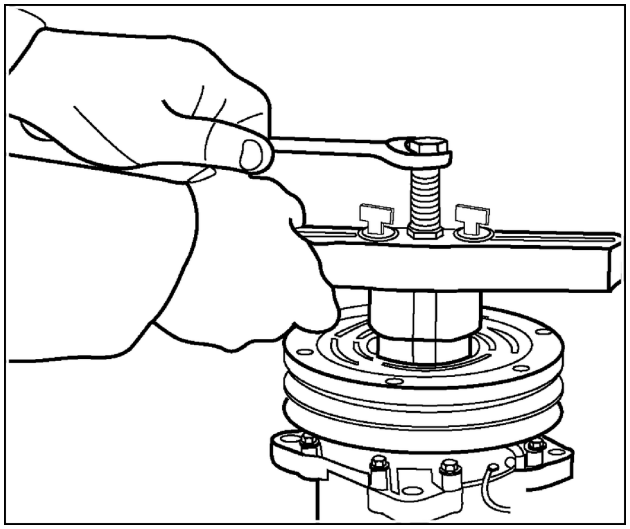
RCPH07CCH054AAC 10

11. Install a puller into the groove in the pulley. Tighten the mounting screws finger tight.



RCPH07CCH055AAC 11

12. Turn the forcing screw on the puller.



RCPH07CCH056AAC 12

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