This section offers an overview of in-cab controls. See the appropriate section in this manual for detailed operating instructions.

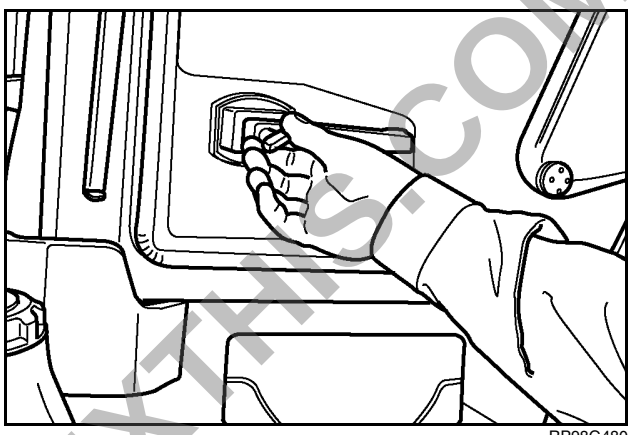
TRACTOR ACCESS

Cab Door Lock

Use the key for the key switch to lock or unlock the cab door from the outside

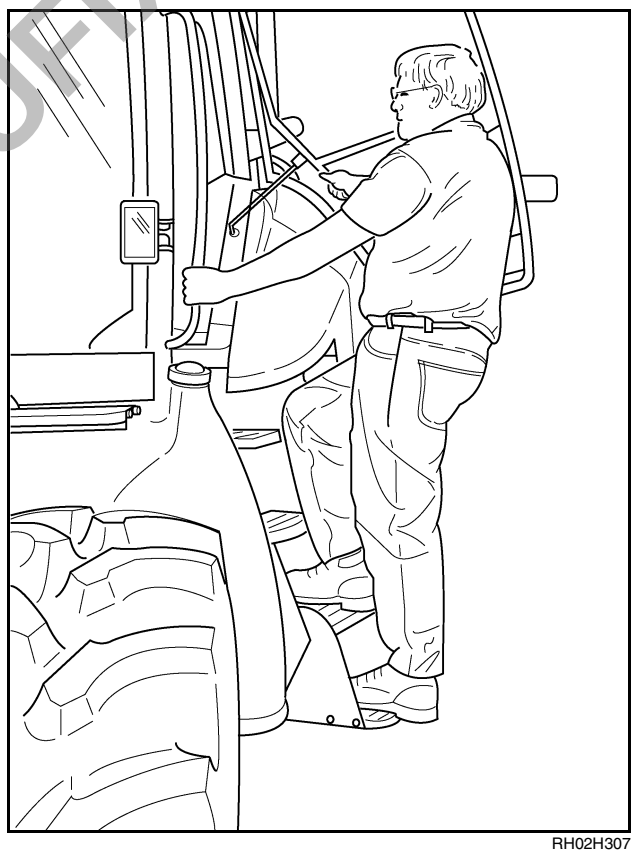
When mounting or dismounting the tractor, use the hand rails and steps provided.

NOTE: *Refer to Cab Steps in this manual for repositioning of steps.*



RP98G480

WARNING: *Jumping on or off the machine can cause an injury. Always face the machine, use the hand rails and steps, and get on or off slowly. Maintain a three point contact to avoid falling, (both hands on rails and one foot on the step, or one hand on the hand rail and both feet on the steps).* SM516



RH02H307

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This section covers the proper starting and transmission operation of the tractor.

BEFORE STARTING THE ENGINE

Before starting your tractor each time, make the following checks. Also see Maintenance/Adjustments sections in this manual.

1. Make sure the tractor is properly lubricated and greased as described in the Lubrication/ Maintenance section of this manual.

2. Check the engine oil level, engine coolant level, and transmission oil. Do not add engine oil unless the indicated level is below the add mark on the dipstick. See the Lubrication/Maintenance section of this manual.

3. Check that the tractor fuel tank is filled with clean fuel that meets the specifications given in this manual.

NOTE: *Clean around the fuel tank cap before you remove the cap.*

4. Check the fuel system, cooling system and engine for leaks.

5. Remove any water or sediment from the water trap of the fuel tank and primary filter.

6. Check the air pressure in the tires and check the wheel bolt torque.

7. Make sure the power takeoff guard is in the proper position.

WARNING: *Before starting the engine, be sure all operating controls are in neutral or park position. This will eliminate accidental movement of the machine or start up of power driven equipment.* SM306A

WARNING: *Never operate the engine in a closed building. Proper ventilation is required under all circumstances.* M142A

WARNING: *ALWAYS sound horn before starting the machine. Make sure working area is clear of other persons, pets, tools, etc. before you start operating this machine. NEVER allow anybody in work area during machine operation.* M804

Daily Inspection

Walk around and visually inspect the tractor daily. Check for such items as hoses or wires rubbing against other components, oil leaks, trash buildup, loose bolts or anything that would affect the normal operation of the tractor.

Make any necessary corrections before operating the tractor.

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LUBRICATION/MAINTENANCE CHART

Service Interval	Maintenance Requirement	Check	Grease	Change	Clean	Drain
When Warning Message Displays	Air Cleaner Element				X	
Every 10 Hours Or Daily	Engine Oil Level	X				
	Transmission Oil Level	X				
	Coolant Reservoir Level	X				
	Engine Auxiliary Fuel Filter - Drain Water					X
Every 50 Hours	Engine Primary Fuel Filter - Drain Water					X
	Engine Coolant Level – Deaeration Tank	X				
	SuperSteer Axle Linkage Pins		X			
Every 100 Hours	Front Hitch (If Equipped)		X			
Every 300 Hours	Battery Water Level (Note E)	X				
	Engine Air Intake Hoses	X				
	*Engine Oil And Filter			X		
	Front And Rear Wheel Bolt Torques	X				
	Front Weight And Rear Wheel Weight Bolt Torques	X				
	Front Axle And Rear Hitch (Note A)		X			
	Fuel Tank - Drain Water					X
	Differential And Planetary Oil Level (Note B)	X				
	Transmission Oil Pressure	X				
	Reversible 1000 RPM PTO Shaft (Note D)		X			
Every 600 Hours	Engine Coolant Antifreeze Protection	X				
	Engine Coolant Filter			X		
	Engine Coolant Hoses And Clamps	X				
	Engine Fuel Filters			X		
	Changeable PTO Internal Splines		X			
Every 1200 Hours Or Annually	Differential and Planetary Oil			X		
	Engine Primary And Secondary Air Filter			X		
	Engine Air Precleaner				X	
Every 1500 Hours	Transmission Oil, Filter(s) and Breather			X		
Every 2100 Hours	Engine Fuel Injection Nozzles See (Note C)	X				
	Engine Coolant And Coolant Conditioner			X		
	Engine Valve Adjustment (All Models) Note C	X				
Every 3000 Hours	Engine Crankshaft Dampener (Note C)	X				
As Required	Cab Air And Recirculation Filters			X	X	
	Cab Air Filter Dust Valve	X				
	Engine Primary Air Filter				X	
	Grill Screens, Radiator, Condenser/Fuel Cooler, Oil Cooler, Air to Air Cooler				X	
	Fan Belt Replacement			X		
	Tire Pressure	X				
	Coupler Spillage Collection Bottle				X	
	Engine Auxiliary Fuel Filter (If Equipped)			X		

* Engine oil change interval may be affected by the sulfur content of the fuel. See Engine Oil Change in this manual.

Note A - In severe or wet conditions, interval is every 10 hours or daily.

Note B - Perform initial service in first 50 hours of operation.

Note C - Dealer must perform this service.

Note D - Every 300 PTO hours or twice a year.

Note E - If operated in ambient temperatures of 90 F (32 C) or greater, the battery fluid should be checked every 100 hours or once a week, whichever comes first.

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This section covers engine and power train specifications, travel speeds, weights and dimensions on the tractor.

DIESEL ENGINE

General (T8010, T8020, T8030, and T8040)

Type ..... Six Cylinder, Four Stroke Cycle, Turbocharged, 4 Valve per Cylinder Head Air to Air Aftercooled
Firing Order 1-5-3-6-2-4
Bore ..... 114 mm
Stroke ..... 135 mm
Piston Displacement ..... 8.3 Litre
Compression Ratio 17.5:1
Cylinder Sleeves ..... Wet Type, Removable
High Engine Idle (Machine in Neutral) ..... 2385 ±25 RPM
Rated Engine Speed ..... 2200 RPM
Low Engine Idle ..... 900 ±50 RPM

General (T8050)

Type ..... Six Cylinder, Four Stroke Cycle, Turbocharged, 4 Valve per Cylinder Head, Air to Air Aftercooled
Firing Order 1-5-3-6-2-4
Bore ..... 114 mm
Stroke ..... 145 mm
Piston Displacement ..... 8.9 Litre
Compression Ratio ..... 17.8 :1
Cylinder Sleeves ..... Wet Type, Removable
High Engine Idle ..... 2240 ±25 RPM
Rated Engine Speed ..... 2200 RPM
Low Engine Idle ..... 900 ±50 RPM

Lubrication System - All

Oil Pressure ..... 43 to 54 PSI (296 to 372 kPa) with Engine Warm and Operating at Rated Speed
Type System ..... Constant Pressure and Spray with Piston Oil Cooling

Fuel System - All

Fuel Injection Pump
  Type ..... Electronic
  Make ..... Cummins CCR
Fuel Injectors ..... Bosch Electronically Controlled

Air Intake System - All

Type ..... Dry Type Air Induction System, Two Stage

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This section covers electrical specifications, fuse and relay location and identification, and battery requirements for the tractor.

SPECIFICATIONS

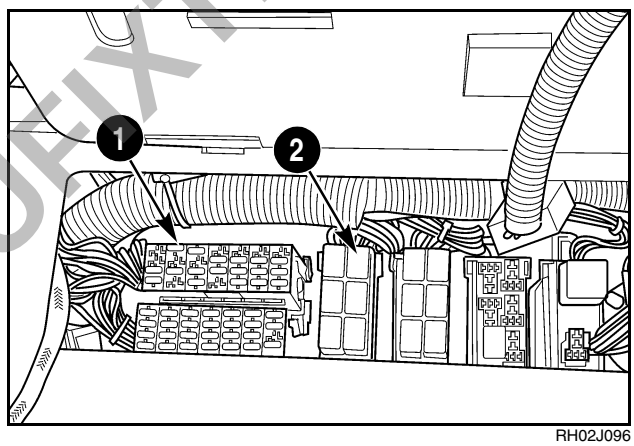
System

Type of system.....12 Volt, Negative Ground
Batteries .....Two 12 Volt, 1000 CCA Low Maintenance Type Connected in Parallel. Group Size 31
Alternator..... 12 Volt, 135 Amp Output, Heavy Duty
Starter.....12 Volt, (4 Kw) with Solenoid Switch

Fuses

Cab Fuse/Relay Location

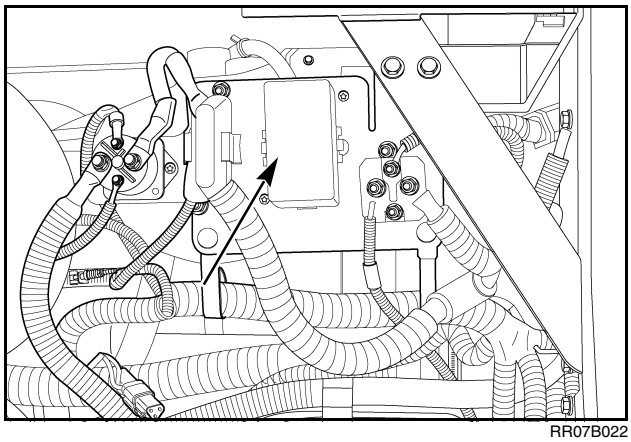
Fuses (1) and relays (2) are located to the rear of the operator's seat, under the floor cover mat and metal cover.



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Engine Compartment Fuse/Relay Location

Additional fuses and relays are located in the Power Distribution box on the left hand side of the tractor at the hood hinge area.


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300 HOUR MAINTENANCE

Engine Oil and Filter Change

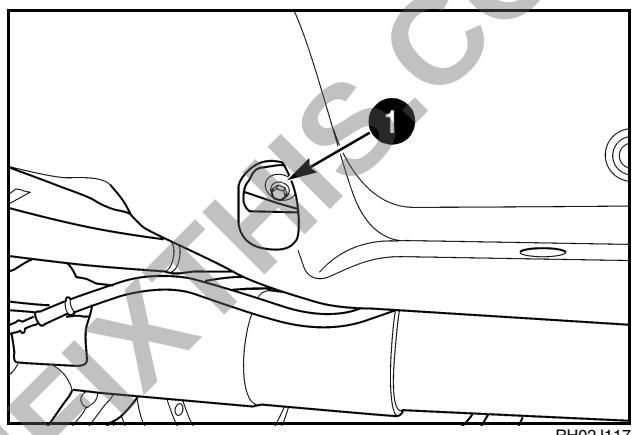
To change the engine oil and filter, put the tractor on level ground and stop the engine, and follow this procedure:

NOTE: *For best results change the oil while the engine is still warm from operation. Use caution when removing plug and draining oil.*

NOTE: *Your New Holland dealer has approved filters. Do not use other type filters.*

1. Remove the oil pan drain plug (1) located on the left side of the frame just behind the front axle, and drain the oil from the engine.

2. Install the drain plug (1) in the oil pan.



RH02J117

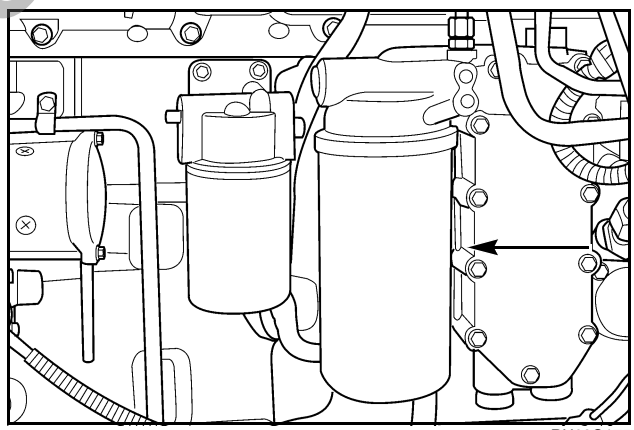
3. Turn the oil filter counterclockwise to remove. Use a strap wrench, if necessary.

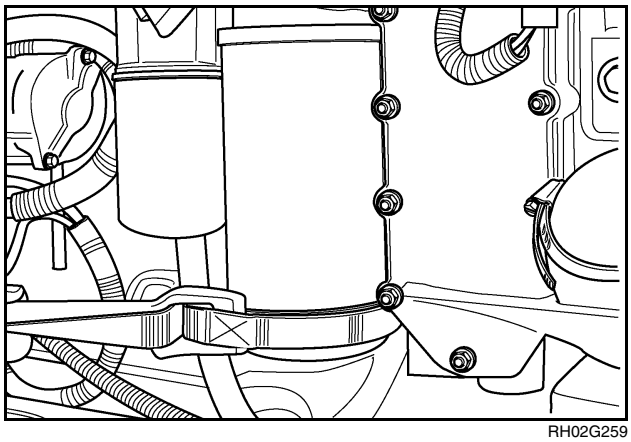
4. Apply clean oil to the gasket on the new filter.

5. Install the filter. Turn the filter clockwise until the gasket comes in contact with the filter head. Tighten the filter an additional one-half turn by hand.

6. Loosen the filter approximately one turn. Turn the filter clockwise again until the gasket comes in contact with the filter head. Tighten the filter an additional 1/2 to 3/4 of a turn by hand.

NOTE: *DO NOT use a filter wrench to install the oil filter. If the filter is too tight you can damage the gasket and filter.*


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RH02G259

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PERSONAL SAFETY

THIS SAFETY ALERT SYMBOL INDICATES IMPORTANT SAFETY MESSAGES IN THIS MANUAL. WHEN YOU SEE THIS SYMBOL, CAREFULLY READ THE MESSAGE THAT FOLLOWS AND BE ALERT TO THE POSSIBILITY OF DEATH OR SERIOUS INJURY. M171C

Throughout this manual and on the machine's safety decals, you will find precautionary statements: **DANGER, WARNING or CAUTION** followed by specific instructions or ISO two panel safety pictorial symbols. These precautions are intended for your personal safety.

Failure to follow the **DANGER, WARNING or CAUTION** instructions may result in death or serious bodily injury.

DANGER, WARNING or CAUTION are defined as follows:

- **DANGER:** Indicates an immediate hazardous situation that, if not avoided, will result in death or serious injury. The color associated with Danger is RED.
- **WARNING:** Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury. The color associated with Warning is ORANGE.
- **CAUTION:** Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. The color associated with Caution is YELLOW.

ISO two panel **pictorial symbol decals** are defined as follows:

- The first panel indicates the nature of the hazard.
- The second panel indicates the appropriate avoidance of the hazard.
- Background color is YELLOW.
- Prohibition symbols such as  and  if used, are RED.

WARNING

IMPROPER OPERATION OF THIS MACHINE CAN CAUSE DEATH OR SERIOUS INJURY. BEFORE USING THIS MACHINE, MAKE CERTAIN THAT EVERY OPERATOR:

- Is instructed in safe and proper use of the machine.
- Reads and understands the Manual(s) pertaining to the machine.
- Reads and understands ALL Safety Decals on the machine.
- Clears the area of other persons.
- Learns and practices safe use of machine controls in a safe, clear area before operating this machine on a job site.

It is your responsibility to observe pertinent laws and regulations and follow CNH America LLC instructions on machine operation and maintenance.

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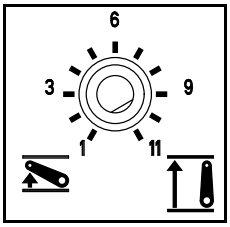
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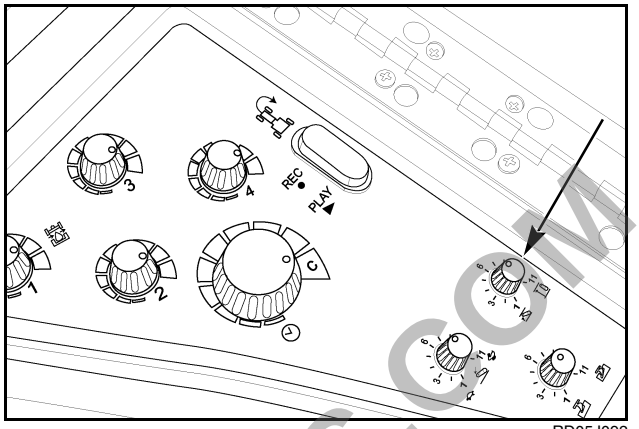
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Hitch Upper Limit Control

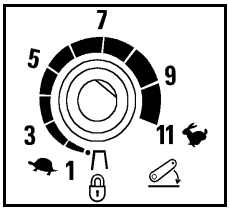


This control limits the amount of upward hitch travel when the hitch Position Control lever or the Up/Down switch is used to raise the hitch. Turn the control clockwise to increase hitch upward travel, counterclockwise to decrease hitch upward travel.

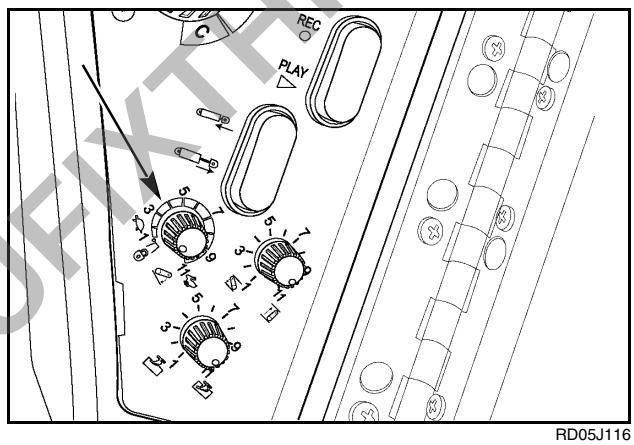


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Hitch Drop Speed Control



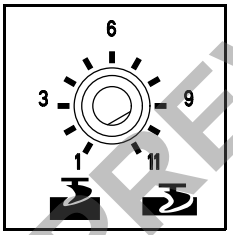
This control adjusts the lowering speed of the hitch when the hitch Position Control lever is rotated rearward or the hitch Up/Down switch is activated. Turn the control clockwise to increase the lowering speed, turn counterclockwise to decrease lowering speed. Turn the control knob fully counterclockwise to the detent to put the hitch in transport lock mode.



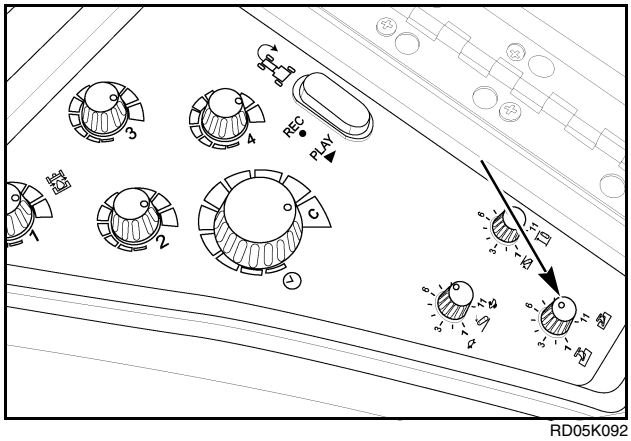
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WARNING: *To prevent accidental lowering of implement, always use Lock Position function when transporting.*
M848

Hitch Travel Control



The travel control adjusts the range of hitch height movement due to hitch load variations. Turn the control clockwise to increase hitch movement and reduce hitch load variation. This results in closer control of load and better following of soil contours. Turn the control counterclockwise to reduce hitch movement and increase hitch load variation.



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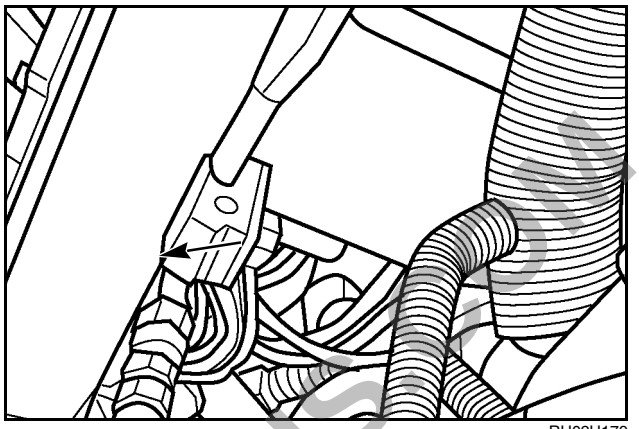
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Implement Status Switch

Implement Status Switch Connection
The optional Implement Status switch signals the tractor:

- To start total area accumulation when the implement is lowered and stop accumulation when the implement is raised.
- To engage Automatic FWD operation when the implement is lowered and disengage FWD when the implement is raised,
- To engage Automatic Differential Lock operation when the implement is lowered and disengage DIF LOCK when the implement is raised.


RH02H179

For the status switch to function properly, the switch must be:

- In the OPEN position to ENGAGE the FWD, diff lock and acre counter when these switches are in the AUTO position.
- In the CLOSED position to DISENGAGE these functions when they are in the AUTO position.

IMPORTANT: *To prevent interference or damage to the hitch arms or implement when using the implement status switch, be sure the hitch UP/DOWN switch is in the UP position, and the hitch position control is in the transport position.*

See your dealer for further information on this switch kit (719633016) and harness (719634016).

The tractor connector for the implement status switch is located on top of the transmission just ahead or behind the rear cab mount.

NOTE: *The Performance Instrumentation Cluster is necessary to display area accumulation. Implement status switch is not needed for hitch mounted implements. Refer to "Area Information" for details.*

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POWER TAKEOFF (PTO)

See the Specifications Section in this manual for general specifications for the power takeoff on your tractor.

Always stop the engine before connecting an implement PTO shaft. This releases the tractor PTO brake and allows the PTO shaft to be turned by hand so that the splines of the tractor and implement PTO shafts can be aligned for connecting.

WARNING: *PTO driven machinery can cause serious injury. Before working on or near the PTO shaft, or servicing or clearing the driven machine, put the PTO switch or lever in the DISENGAGE position and STOP the engine.* M154A

WARNING: *When doing stationary PTO work and dismounting from the tractor with the PTO running, keep clear of all moving parts as they are a potential safety hazard.* M127A

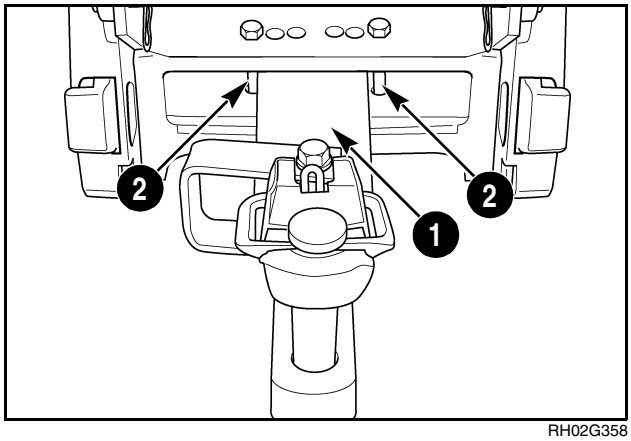
WARNING: *This tractor is equipped with a 540 or a 1000 RPM PTO. Be sure the implements are matched to the tractor PTO speeds. Lock the swinging drawbar in the center position when using the PTO. Do not use the 540 RPM PTO for implements requiring more than 85 PTO horsepower.* M266A

WARNING: *Whenever a PTO driven machine is in operation, the PTO guard must be in place for most operations to prevent injury to the operator or bystanders. Where attachments, such as pumps, are installed on the PTO shaft (especially if the tractor PTO guard is moved upward or removed), extended shielding equivalent to the PTO guard must be installed with the attachment. Install the PTO guard to its original position immediately when the attachment is removed.* M273A

PTO Operating Safety

For the safe operation of the PTO, follow these safe operating practices.

1. Lock the drawbar (1) in the center location on the drawbar support with the drawbar swing stop bolts (2).

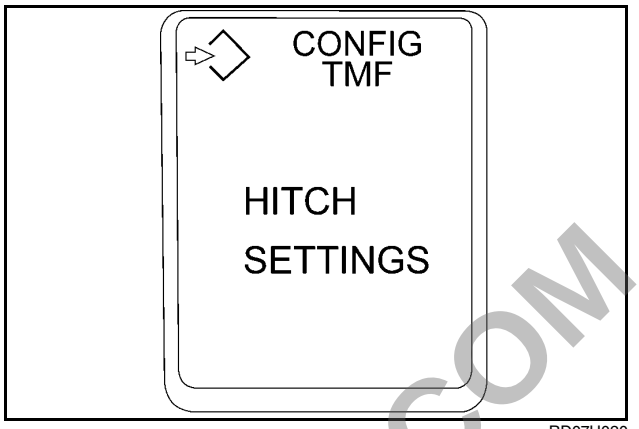


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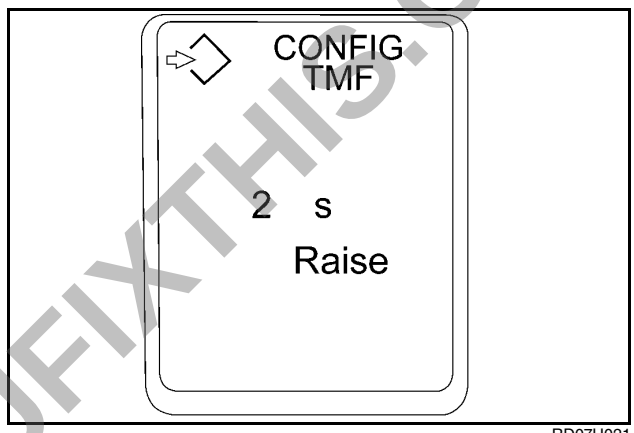
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4. Press the INCR or DECR keys until “HITCH SETTINGS” is displayed and then press the PROG key.



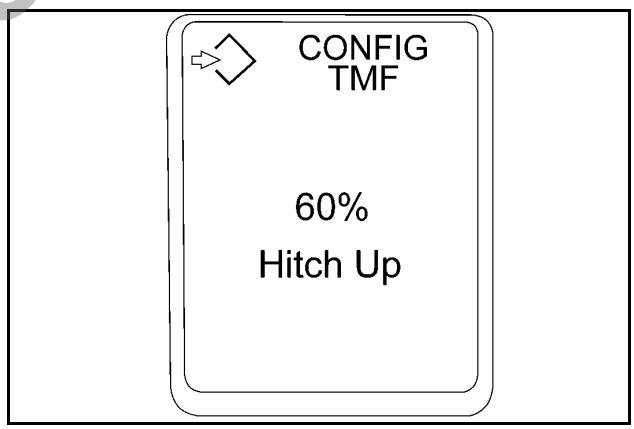
RD07H020

5. Press the INCR or DECR keys until “2 s Raise” is displayed and then press the PROG key.



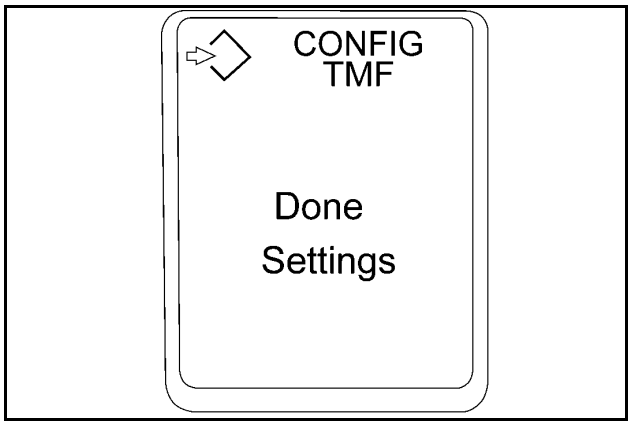
RD07H021

6. From the Hitch Up screen, press the INCR or DECR keys to change the hitch up setpoint between 60, 70, 80 or 90 percent as required then press the PROG key.



RD07H022

7. The “Done Settings” screen will display.



RD07H023

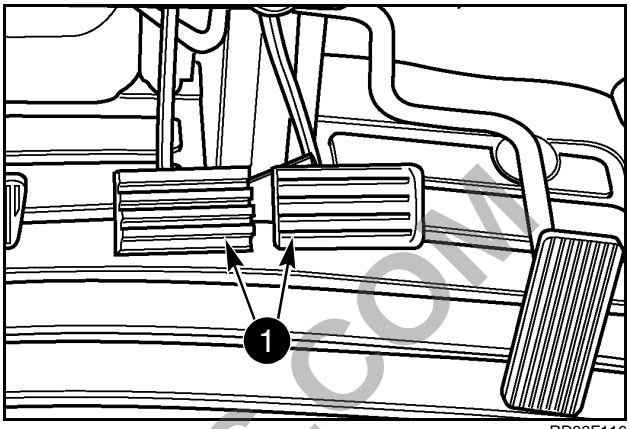
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FWD Assisted Stops

FWD engages whenever both brakes (1) are applied together, regardless of FWD switch position. This feature provides a quicker and more controlled stop. When the brakes are released, the FWD will:

- ENGAGE - If the FWD switch is in the MANUAL ON position.
- ENGAGE - If the FWD switch is in the AUTOMATIC position.
- DISENGAGE - If the FWD switch is in the OFF position.



RD98F116

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SuperSteer FWD Axles

Dual Tires Without Fenders – Position "A" Rear Mounted Axle

STEERING STOP CHART							
Tire Size	Inner Tire Tread Setting mm (Inch)/	Outer Dual Tread Widths - mm (Inch)					
		2540 (100)	2642 (104	2743 (108)	2845 (112)	2946 (116)	3048 (120)
600/65R28	DUALS NOT ALLOWED						
380/85R30	1524 (60)	34	34	34	34	31	25
	1626 (64)	NA	34	34	34	31	25
	1727 (68)	NA	NA	34	34	31	25
	1828 (72)	NA	NA	NA	34	31	25
16.9R30 R1 -R1W	1524 (60)	NA	34	34	31	25	25
	1626 (64)	NA	NA	34	31	25	25
	1727 (68)	NA	NA	NA	31	25	25
	1828 (72)	NA	NA	NA	NA	25	25
16.9R30/R2	1524 (60)	NA	34	34	31	25	25
	1626 (64)	NA	NA	34	31	25	25
	1727 (68)	NA	NA	NA	31	25	25
	1828 (72)	NA	NA	NA	NA	25	25
420/90R30	1524 (60)	NA	25	25	25	25	25
	1626 (64)	NA	NA	34	25	25	25
	1727 (68)	NA	NA	NA	25	25	25
	1828 (72)	NA	NA	NA	NA	25	25
480/70R30	1626 (64)	NA	NA	NA	25	25	25
	1727 (68)	NA	NA	NA	NA	25	25
	1828 (72)	NA	NA	NA	NA	NA	25
480/85R30R2	1626 (64)	NA	NA	NA	20	20	20
	1727 (68)	NA	NA	NA	NA	20	20
	1828 (72)	NA	NA	NA	NA	NA	20
480/70R34	1626 (64)	NA	NA	NA	NA	20	20
	1727 (68)	NA	NA	NA	NA	20	20
540/65R34	1727 (68)	NA	NA	NA	NA	NA	25
320/85R38	1524 (60)	34	34	34	34	25	25
	1626 (64)	NA	34	34	34	25	25
	1727 (68)	NA	NA	34	34	25	25
	1828 (72)	NA	NA	34	34	25	25

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Fuel Storage

When storing fuel for an extended period, foreign material or water may be introduced. Many engine problems are caused by foreign matter or water in the fuel.

Keep the fuel storage tank outside, and keep the fuel as cool as possible. Remove water from the fuel storage tank at regular intervals.

IMPORTANT: *Different grades of diesel fuel are required for summer and winter operations. See your fuel supplier for winter fuel requirements in your area.*

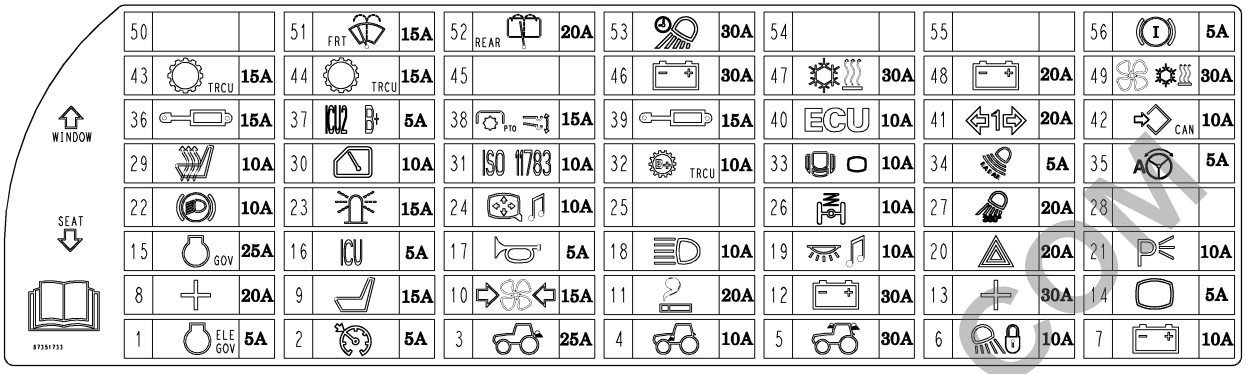
WARNING: *Never refuel the machine when the engine is hot or running. Never smoke while refueling.*
M139C

WARNING: *Hydraulic oil 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.
Before applying pressure, make sure all connections are tight and 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.
M149B

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Cab Fuse Identification



RI07B009

Fuse No.	Circuit	Fuse Amp
1	Electronic Governor	5
2	Constant Engine Speed	5
3	Rear Fender Worklights	25
4	Beltline Worklights	10
5	Roof Worklights	30
6	Worklight/Headlight Interlock	10
7	Battery Power to Key Switch	10
8	Headliner Shelf Auxiliary Power/3-Pin/ Cigar Outlets (1)	20
9	Seat Power & Operator Presence	15
10	Cab Pressurizer Blower	15
11	Cigar Lighter/RH Fender Console	20
12	Exterior 7-Pin Connector (2)	30
13	RH Front Post/RH Fender 3-Pin Auxiliary Connectors (1)	30
14	Virtual Terminal	5
15	Governor	25
16	Instrumentation Cluster (2)	5
17	Horn	5
18	Battery Power to Headlight Switch	10
19	Dome Light/Map Light/Radio (1)	10
20	Amber Flashers	20
21	Tail Lights	10
22	Stop Lights	10
23	Beacon	15
24	Power Mirror/Radio	10
25	Blank	
26	Suspended Axle B+	10
27	Side Roof HID Lamps	20
28	Blank	
29	Seat Heater	10
30	Side Wiper	10

Fuse No.	Circuit	Fuse Amp
31	ISO 11783	10
32	Trans Controller B+	10
33	RH Armrest Controller (2)	10
34	True Ground Radar	5
35	Autoguidance	5
36	TMF Remote System Controller	15
37	Instrumentation Cluster (2)	5
38	TMF PTO/Diff Lock/FWD System	15
39	TMF Hitch System Controller	15
40	ECU Controller	10
41	Trailer Tail Lamps	20
42	Data Bus Diagnostic Connector	10
43	Transmission Controller	15
44	Transmission Controller	15
45	Blank	
46	RH Front Post/RH Fender 3-Pin Connectors (2)	30
47	HVAC Controller	30
48	Headliner Shelf 3-Pin Connectors (2)	20
49	HVAC Blower	30
50	Blank	
51*	Front Wiper/Washer	15
52	Rear Wiper/Washer	20
53	Egress Lighting	30
54	Blank	
55	Emerging Market	15
56	Italian Brakes	5

(1) - Unswitched power (Continuous).

(2)- Power available when key switch is in “ON” position.

* = Circuit Breaker

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