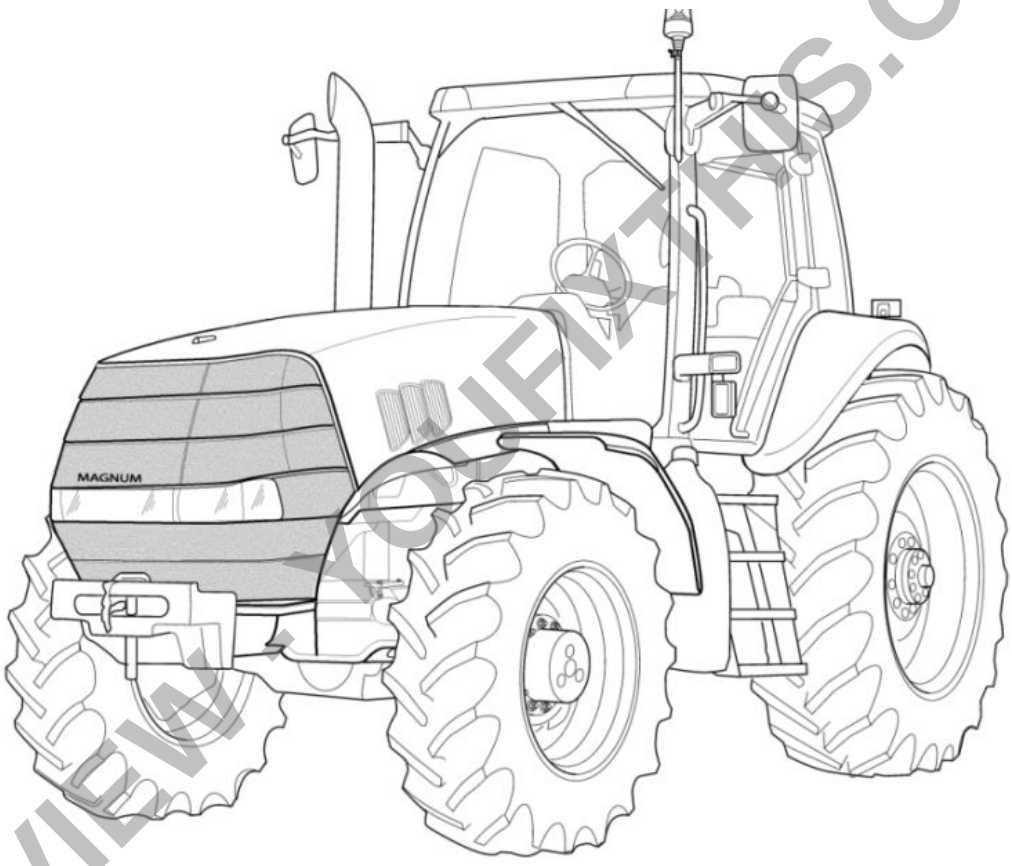
CASE IH
AGRICULTURE

OPERATOR'S MANUAL



Magnum 225
Magnum 250
Magnum 280
Magnum 310
Magnum 335

Rac - 84244301
Issue date 17/12/2009

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1 - GENERAL INFORMATION

Safety rules

PRECAUTIONARY STATEMENTS

Personal Safety



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

Throughout this manual and on vehicle decals, you will find signal words DANGER, WARNING, and CAUTION followed by special instructions. These precautions are intended for the personal safety of you and those working with you. Please take the time to read them.

⚠ DANGER ⚠

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury. The color associated with Danger is RED.

M1169A

⚠ WARNING ⚠

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury. The color associated with Warning is ORANGE.

M1170A

⚠ CAUTION ⚠

CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. The color associated with Caution is YELLOW.

M1171A

FAILURE TO FOLLOW DANGER, WARNING, AND CAUTION INSTRUCTIONS COULD RESULT IN DEATH OR SERIOUS INJURY.

MACHINE SAFETY

NOTICE: *NOTICE is used to address practices not related to personal safety.*

The word NOTICE is intended for machine and property safety. It is used throughout this manual followed by specific instructions to prevent machine or property damage. Failure to follow NOTICE messages could result in machine or property damage.

INFORMATION

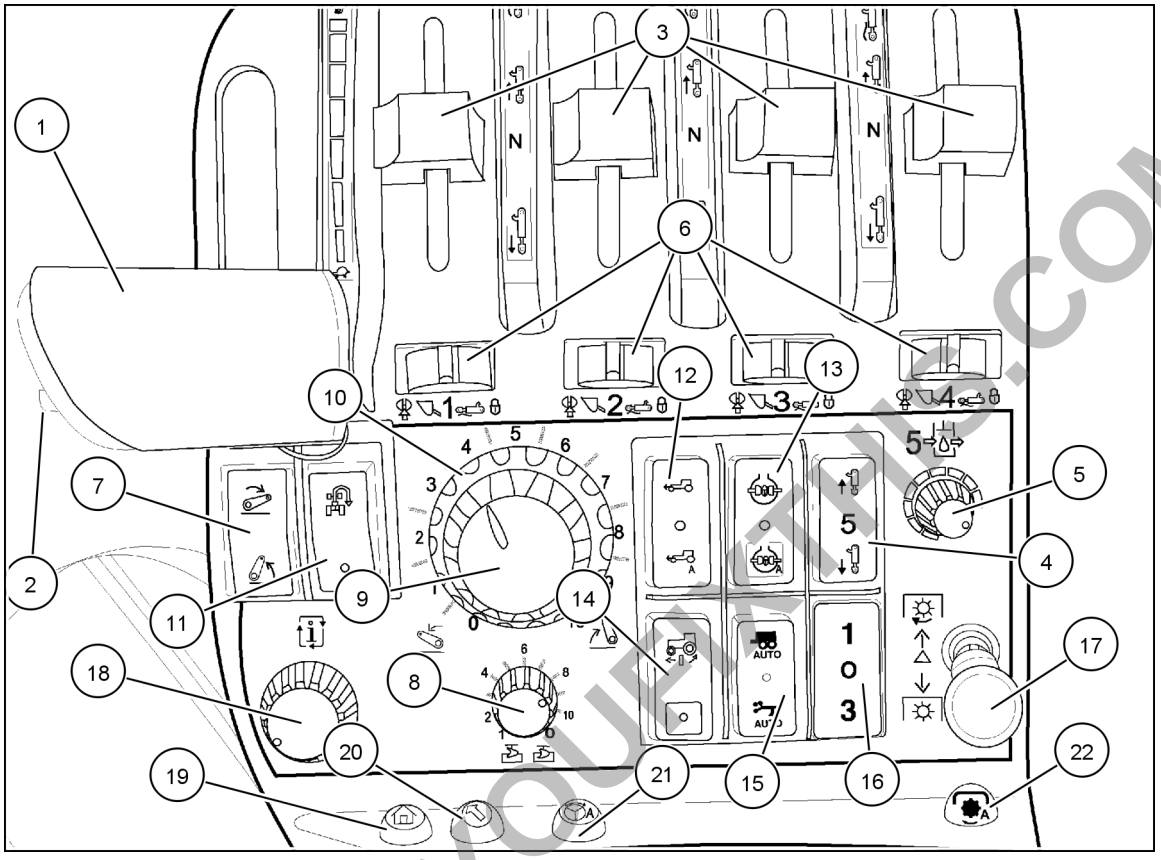
NOTE: *Instructions that clarify steps, procedures, or other information in this manual.*

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RH SIDE CONTROLS

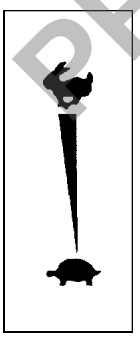
Armrest console



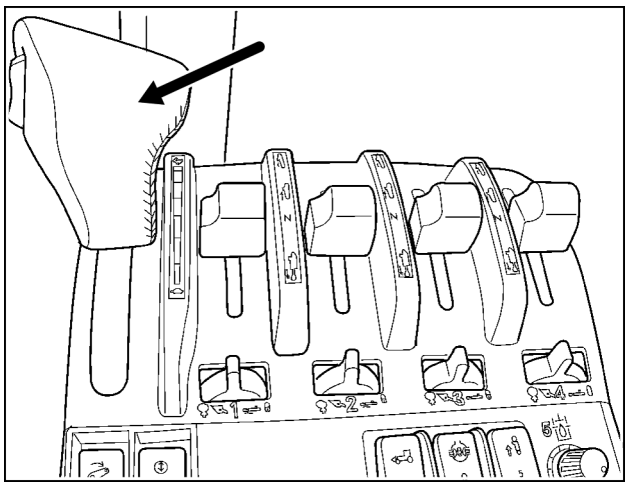
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1. Hand throttle lever	9. Hitch position control	17. PTO control
2. Gear select button	10. Hitch lower limit stop	18. Selection knob for color display
3. Remote control lever (1-4)	11. Programmable shift control or end of row step switch if equipped	19. Home key for color display
4. Fifth remote control	12. MFD control	20. Escape key for color display
5. Fifth remote flow control	13. Differential lock control	21. Autoguidance engage
6. Remote function control (1-4)	14. Slip limit control	22. Auto PTO switch
7. Hitch up/down control	15. Auto productivity management (APM)	
8. Hitch load control	16. Remote auto mode control	

Hand throttle lever



The hand throttle lever is used to control engine speed. To increase engine speed, move the lever forward. To decrease engine speed, move the lever rearward.



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MOVING THE UNIT

Powershift transmission

Your tractor is equipped with a full power shift transmission. The full power shift design permits shifting the transmission without using the inching pedal, except the first time the transmission is engaged on startup and when the operator leaves the seat for more than 2 seconds. This includes changing gears when the tractor is moving, stationary or changing the direction of travel.

Your tractor may be equipped with one of the following options.

Transmission speed options	
Option 1 – Forward	18 speeds
Option 1 – Reverse	4 Speeds
Option 2 – Forward	19 Speeds
Option 2 – Reverse	4 Speeds
Option 3 – Forward	23 Speeds (Includes Creeper)
Option 3 – Reverse	6 Speeds

NOTICE: *As a safety feature on tractor startup, the inching pedal must be depressed before moving the transmission from Park to either Forward or Reverse. If the inching pedal is not depressed, an alarm sounds; the message "CP" (for clutch pedal) displays on the instrument cluster, and the transmission does not engage. Once the tractor is started and the transmission is first engaged with the inching pedal, shifting without using the inching pedal is available anytime as long as the operator does not leave the seat.*

Transmission controller software prevents the power shift transmission from shifting up beyond a certain gear depending on transmission oil temperature. This is done to eliminate the possibility of excessive clutch wear by shifting into higher gears at lower temperatures. The limits are as follows:

Oil temperature less than or equal to	Limits power shift to
-40 °C (**-40 °F**)	10th Gear
-10 °C (**14 °F**)	11th Gear
-5 °C (**23 °F**)	12th Gear
0 °C (**32 °F**)	13th Gear
2 °C (**35.6 °F**)	14th Gear
4 °C (**39.2 °F**)	15th Gear
6 °C (**42.8 °F**)	16th Gear
8 °C (**46.4 °F**)	17th Gear

⚠ WARNING ⚠

Travel speed should be such that complete control and machine stability is maintained at all times. Where possible, avoid operating near ditches, embankments and holes. Reduce speed when turning, crossing slopes, and on rough, slick, or muddy surfaces. Failure to comply could result in death or serious injury.

M109B

⚠ WARNING ⚠

Do not exceed implement transport speed or the speed rating on the implement tires. Review the implements Operator's Manual for specifications. Failure to comply could result in death or serious injury.

M1219

When towing heavy loads and descending hills, the engine can reach an overspeed condition of **3000 RPM**. The fuel flow to the engine during this condition is slowed until engine rpm reaches **2600 RPM**to help protect the engine.

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5 - TRANSPORT OPERATIONS

ROAD TRANSPORT

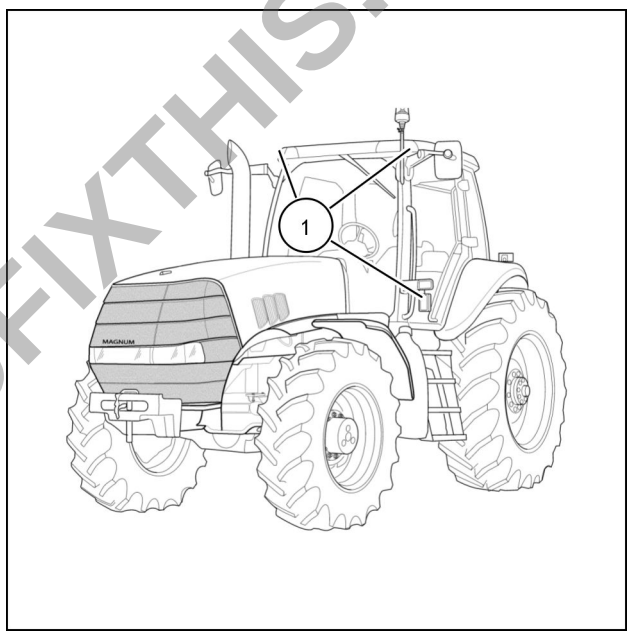
Tractor warning lamps

⚠ WARNING ⚠

Collision of high speed road traffic and slow moving machines can cause personal injury or death. On roads, use flasher/lights according to local laws. Pull over to let faster traffic pass. Slow down and signal before turning off.

M729

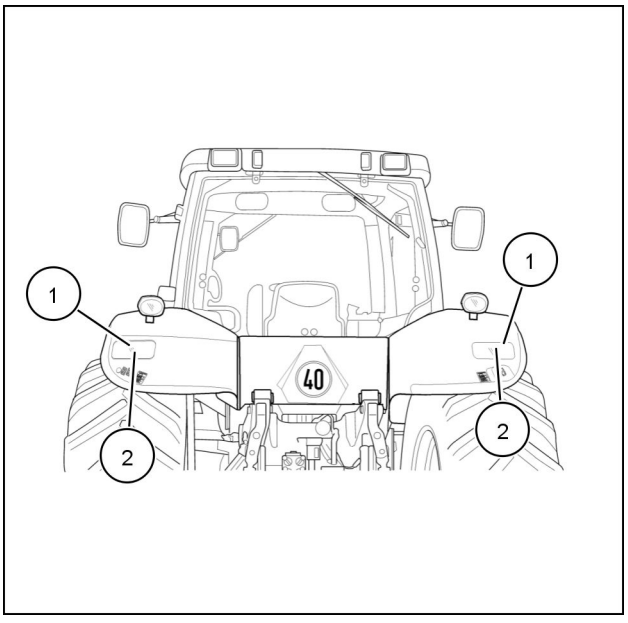
Your tractor has flashing amber warning lamps **(1)** and tail/stop lamps **(2)**. Make sure to use these items correctly when operating the tractor on a road. The proper use of these items will provide safety and protection for the tractor operator and other vehicle operators.



RCPH08CCH071BAB 1

The flashing amber warning lamps must be operating when the tractor is stopped on a road during the day or night. A vehicle operator that comes near the tractor must see the tail lamps from the rear and the flashing amber warning lamps from the front and rear. Keep all lamps and reflectors clean.

NOTICE: *When towing an implement or wagon with the tractor, the complete rear area warning system (amber warning lamps and red tail lamps) must be easily seen by any vehicle operator coming near the tractor.*



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FRONT HITCH

Overview

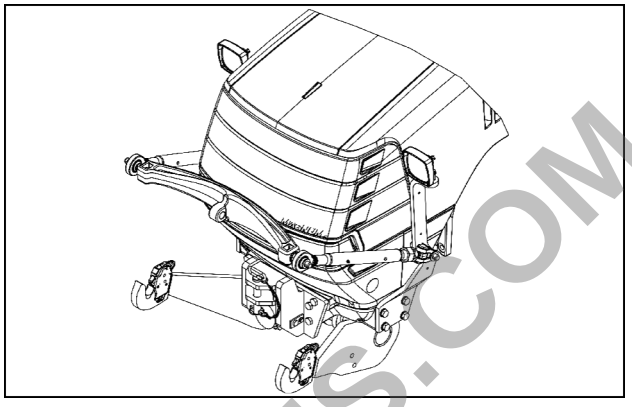
Designed for Category II implements, the Magnum front hitch is integrated into the front frame and mounted in close proximity to the tractor for greater lifting capacity.

The Magnum front hitch can be field installed only on tractors ordered with the front hitch ready option; the Zuidberg hitch can be field installed on tractors ordered without the front hitch ready option.

The hitch package includes two additional, adjustable head lamps and the front clevis.

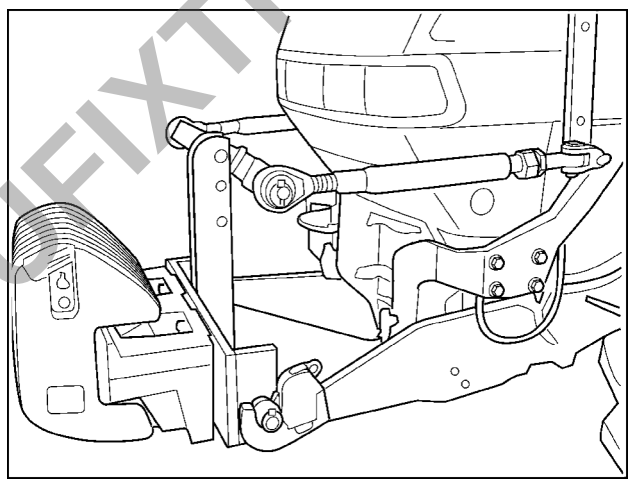
NOTICE: *This front hitch is not suitable for primary tillage applications.*

NOTICE: *Do not exceed front tire, front axle or vehicle limits with any hitch attachment.*



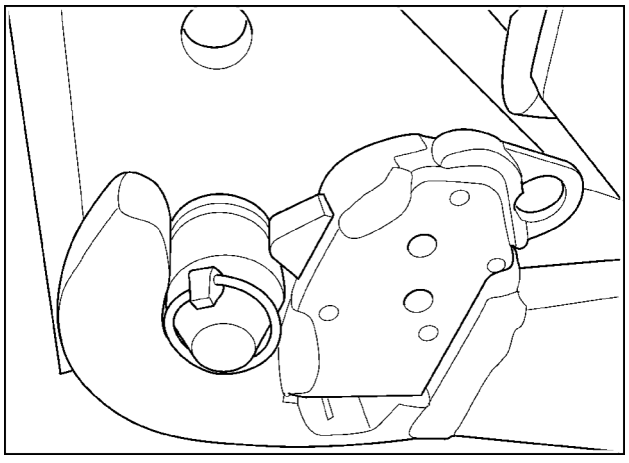
RCPH08CCH281AAC 1

Lower links are rigidly mounted with no lateral sway and equipped with claw ends.



RCPH08CCH361AAC 2

Category II balls are provided with the hitch. Some category IIIN implements can also be used. Category III balls, Category II and III flanged balls are available from your dealer.



RCPH08CCH360BAC 3

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Maintenance chart notes

The following table explains the meaning of the Notes (A-E) referenced in the maintenance chart.

Note A	In severe or wet conditions, the service interval on this component is every 10 hours or daily.
Note B	Perform initial service/maintenance in the first 50 hours of operation.
Note C	Your dealer must perform this service/maintenance.
Note D	Every 300 PTO hours or twice a year.
Note E	If operated in ambient temperature of **32.2 °C** (**90 °F**) or greater, the battery fluid level should be checked every 100 hours or once a week, whichever comes first.

MAINTENANCE CHART

Maintenance Chart

Interval	Page Nb.	Maintenance Action	Nb. of pts	Cleaning	Change fluid	Check	Drain fluid	Grease	Replace	Bleed	Inspect	Test	Adjust
At warning message display	**7-23**	Air filter service icon/message		X									
First 10 to 50 hours	**7-24**	Differential and planetary oil			X								
	7-24	Wheel bolt torque				X							
	7-24	Weight bolt torque				X							
Every 10 hours or daily	**7-25**	Engine oil level				X							
	7-26	Transmission oil level				X							
	7-27	Engine coolant level				X							
	7-28	Engine auxiliary fuel filter					X						
	7-28	Air reservoir					X						
	7-28	Rear hitch and front axle						X					
		Foam filter (reversible fan compressor)				X							
Every 50 hours	**7-29**	Engine primary fuel filter					X						
		Front axle linkage						X					
Every 100 hours		Zuidberg front hitch						X					

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8 - TROUBLESHOOTING

ALARM(S)

Display warnings

The programmable display notifies the operator when there is a problem with the engine, transmission, hydraulics or other operational systems that require corrective action. The warnings include an audible alarm, one or more indicator lights and a text message in the programmable display. The warnings are divided into 4 levels of importance and a descending order of priority within each level. In the case of multiple faults or warnings, the higher level or higher priority within a level will be the warning displayed.

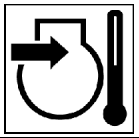
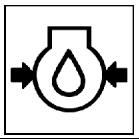
Critical warning displays (Level 1)

Level 1 critical warnings require immediate attention, or there will be serious damage to the tractor. When a critical fault occurs, the red stop light, the amber warning light and the audible alarm flash continuously and a text message appears in the lower display. For very high engine coolant temp and very low engine oil pressure, the light near the gauge also flashes.

Shut down the engine immediately.

NOTE: *On tractors with the performance instrumentation, the engine shuts down in 30 seconds after the fault is detected. The programmable display shows the 30 second count down timer.*

NOTICE: *Level 1 warnings cannot be turned off by pressing the "RESET" button. If the tractor must be moved, cycle the key switch to get an additional 30 seconds of running time to move the tractor. This can be done as many times as necessary to reach a desired location. However, damage to the tractor can occur.*

Display		Fault description	Corrective action
	Engine intake air temp very high	Very high air to air temperature.	Shut the tractor engine Off immediately and check the heat exchanger for blockage.
	Engine oil pressure very low	Very low engine oil pressure.	Shut the tractor engine Off immediately and check oil level or other cause.
	Engine coolant temp very high	Very high engine coolant temperature.	Shut the tractor engine Off immediately and check coolant level or radiator for blockage or other cause.
	Transmission oil temp very high	Very high transmission oil temperature.	Shut the tractor engine Off immediately and check for blocked cooler or other cause.

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9 - SPECIFICATIONS

ENGINE - General specification

Diesel engine

Magnum 225 and 250

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 l**
Compression Ratio	17.5 :1
Cylinder Sleeves	Wet type, removable
High Engine Idle	**2240 RPM ± 10 RPM**
Rated Engine Speed	**2000 RPM**
Low Engine Idle	**900 RPM ± 50 RPM**

Magnum 280, 310 and 335

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 l**
Compression Ratio	17.8 :1
Cylinder Sleeves	Wet type, removable
High Engine Idle	**2240 RPM ± 25 RPM**
Rated Engine Speed (275 and 305 only)	**2000 RPM**
Rated Engine Speed 335 only)	**2100 RPM**
Low Engine Idle	**900 RPM ± 50 RPM**

Lubrication system

All models

Oil pressure	**480 kPa** (**70 psi**) with engine warm and operating at rated speed
System type	Constant pressure with piston oil cooling

Fuel system

All models

Fuel injection pump	
Type	Electronic
Make	Cummins CCR
Fuel injectors	Bosch electronically controlled

Air intake system

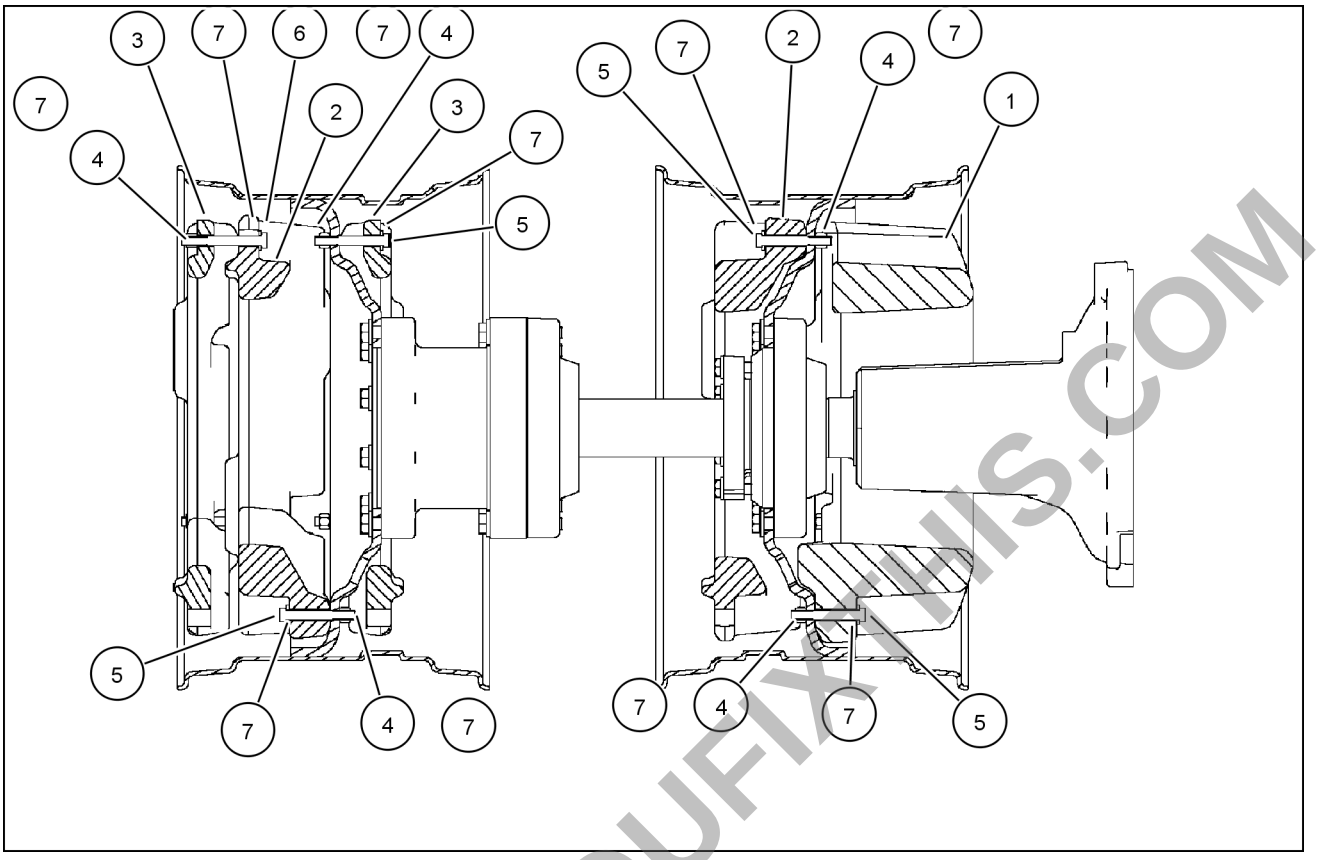
All models

Type	Dry type, air induction system, two stage

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Wheel weight installation diagrams



RCPH08CCH601FAC 6

Drawing represents possible weight combinations.

1. Weight **455 kg** (**1000 lb**)	5. Bolt, M16 x 120 Hex Head Grade 10.9
2. Weight **225 kg** (**500 lb**)	6. Bolt, M16 x 140 Hex Head Grade 10.9
3. Weight **90 kg** (**200 lb**)	7. Washer, 17.5 x 34 x 5mm Flat Hardened
4. Nut, M16 Nylock CL8	

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STARTING THE UNIT

Normal engine starting

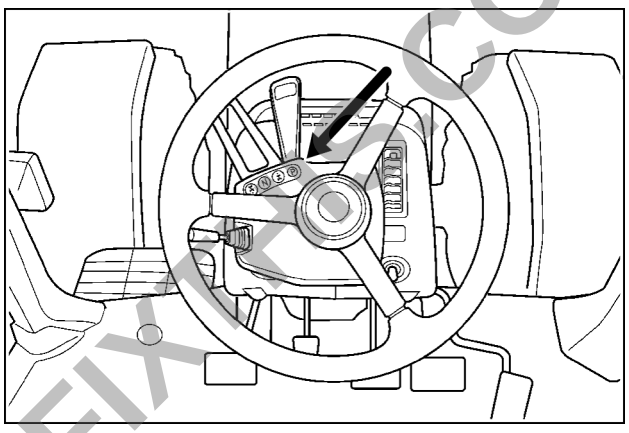
⚠ WARNING ⚠

Operate controls only when seated in the operators seat.

M137A

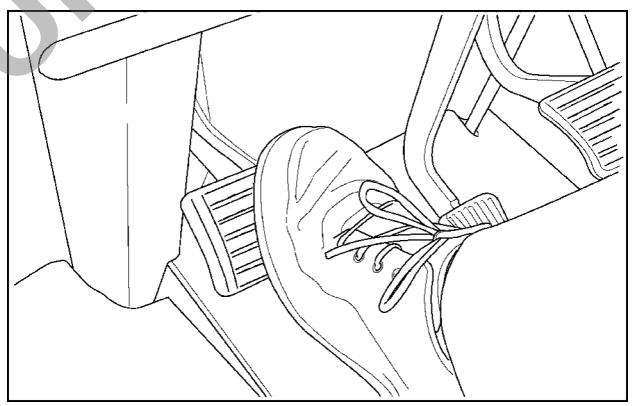
NOTE: *After the engine starts, operate the engine at low idle speed for a few minutes so enough lubricant reaches the turbo charger bearings and engine parts before operating the engine at rated speed.*

1. Make sure the transmission control lever is in Park position.



RCPH08CCH238AAC 1

2. Fully depress the inching (clutch) pedal.



RCPH08CCH231AAC 2

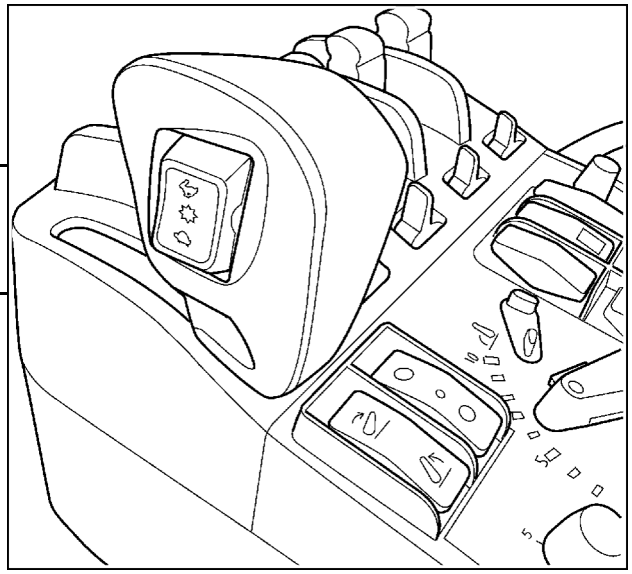
3. Move the throttle to the low idle position (lever full back).

   NOTE: *Do not increase throttle setting until engine RPM increases to* ***850 - 900 RPM****.*

⚠ WARNING ⚠

Operate controls only when seated in the operators seat.

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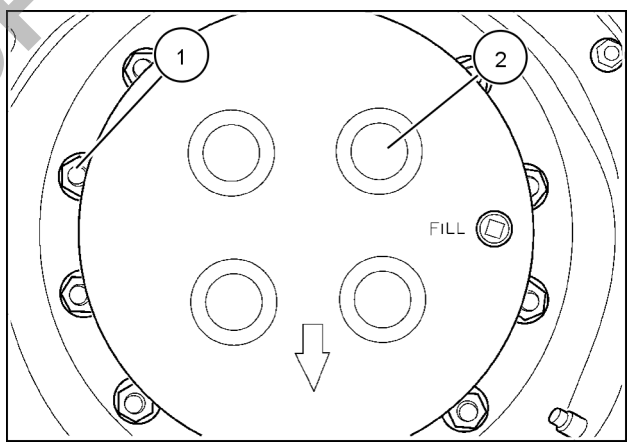
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Capacities

System	Metric	U.S.	Imperial
Engine Oil			
8.3 l engine			
No filter change	**19 l**	**5 US gal**	**4.2 UK gal**
With filter change	**21 l**	**5.5 US gal**	**4.5 UK gal**
9.0 l engine			
No filter change	**22.7 l**	**6 US gal**	**4.9 UK gal**
With filter change	**24.6 l**	**6.5 US gal**	**5.4 UK gal**
Cooling system	**26.5 l**	**7 US gal**	**5.8 UK gal**
Trans/hydraulic system	**172 l**	**45.5 US gal**	**38 UK gal**
Mechanical front drive			
4 pin – 10 bolt axle*			
Differential	**12.3 l**	**13 US qt**	**21.6 UK pt**
Planetary (each)	**1.4 l**	**3 US pt**	**2.4 UK pt**
4 pin – 12 bolt axle*			
Differential	**11.8 l**	**12.5 US qt**	**20.5 UK pt**
Planetary (each)	**3.3 l**	**7 US pt**	**5.8 UK pt**
3 pin – 12 bolt axle (Magnum 335 only)			
Differential	**15 l**	**15.8 US qt**	**26.4 UK pt**
Planetary (each)	**6 l**	**12.7 US pt**	**10.5 UK pt**
Fuel tank	**674 l**	**178 US gal**	**148 UK gal**
* Pin and bolt quantity are determined by observing the wheel ends.			

Count the number of bolts **(1)** and pins **(2)** on the wheel end to determine axle type for your tractor



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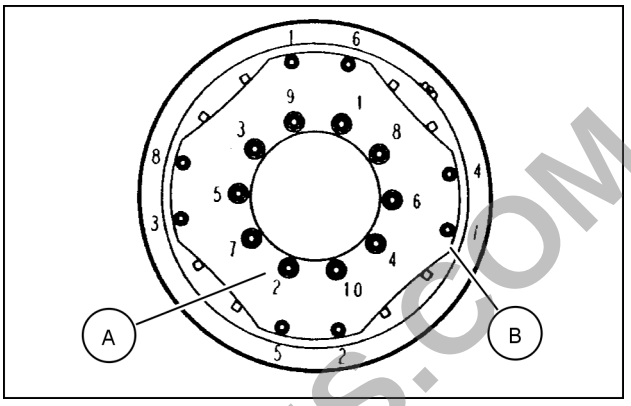
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Front wheel mounting torques – MFD axle

- Check Bolt Torque after the first 30 minutes of field use, every 10 hours until torques stabilize and every 300 hours thereafter.

The front wheel bolt hardware must be correctly torqued when the unit has been serviced or after wheel tread spacing has been adjusted.

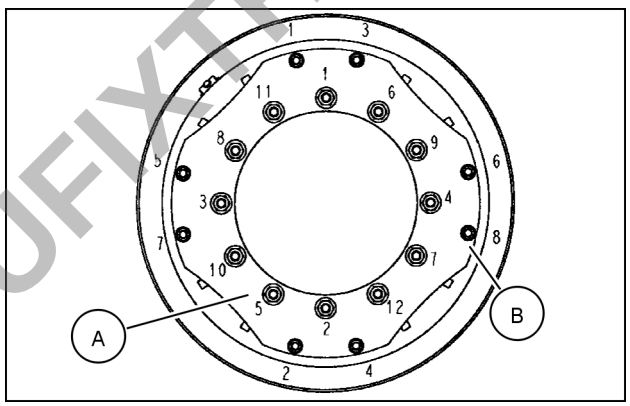


RCPH08CCH470AAC 3

10 bolt wheel MFD axle

Location	Torque
Disc to front axle hub nuts **(A)**	**385 - 425 Nm** (**285 - 315 lb ft**)
Lubricate hardware **(A)** before installing to obtain proper torque.	
Disc to rim nuts **(B)**	**310 Nm** (**230 lb ft**)
Do not lubricate hardware **(B)**.	

Tighten according to the torque sequence shown above. Be sure the disc fits flush against the rim when assembled.



RCPH08CCH591AAC 4

12 bolt wheel MFD axle

Location	Torque
Disc to front axle hub nuts **(A)**	**385 - 425 Nm** (**285 - 315 lb ft**)
Lubricate hardware **(A)** before installing to obtain proper torque.	
Disc to rim nuts **(B)**	**310 Nm** (**230 lb ft**)
Do not lubricate hardware **(B)**.	

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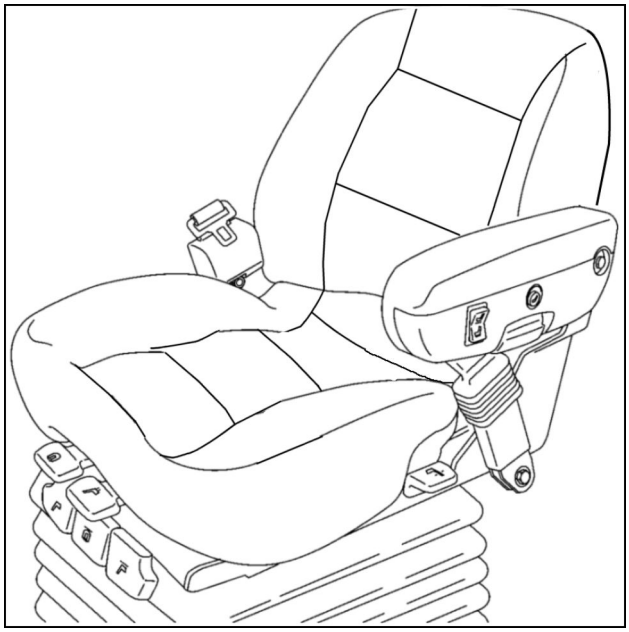
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OPERATOR'S SEAT

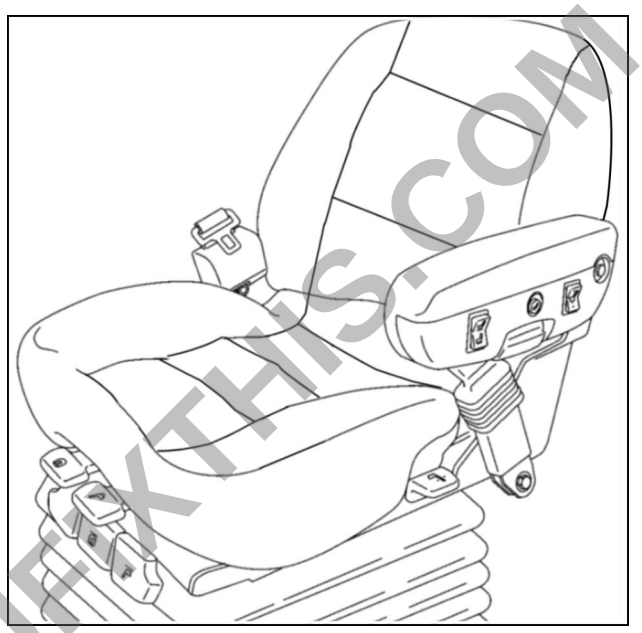
Overview

The operator seat is equipped with controls to adjust the seat for personal comfort. All control options are listed here. Select the ones that apply to the specific seat.



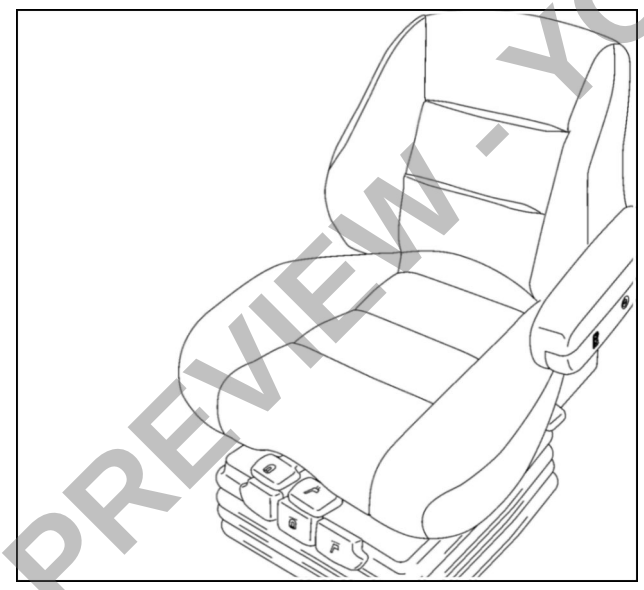
RCPH09CCH512BAA 1

Deluxe seat



RCPH09CCH514BAA 2

Positive response seat



RCPH09CCH513BAA 3

Luxury seat

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Standard instrumentation

This table provides an overview of the information available with standard instrumentation. Press the INCR or DECR key on the keypad to page through the screens. Press the ATC key on the key pad to go directly to the automatic temperature control screen.

Screen text	Information	Description
Engine hours	Engine hours	Engine hours: default display at start up
	PTO RPM	540 or 1000 PTO speed display when PTO is turned On. Overrides all other displays
	Auto AUX (if equipped)	Displays AUX AUTO status when turned On and PTO is Off
	Old engine hours	Displays engine hours entered from a previous ICU. (Press Reset key on the key pad momentarily.)
Battery voltage	nn.n Volts	Tractor system voltage
Rear hitch	nnn%	Actual position of rear hitch as percent (%) of travel
Trans system pressure	*Pressure in kPa or psi	Transmission oil pressure
Engine oil pressure	*Pressure in kPa or psi	Engine oil pressure
Engine intake temp	*Temperature in °C or °F	Engine intake air temperature
Trans oil temp	*Temperature in °C or °F	Transmission oil temperature
Engine cool temp	*Temperature in °C or °F	Engine coolant temperature
Constant engine RPM (if equipped)	Set RPM	Operator selected value
Auto depth control (if equipped)	Upper and lower stop settings and actual position of implement	Operator selected value
Auto (ATC) (if equipped)	Current state of automatic temperature control system.	Fan mode and speed, set temperature, defog and auto control status
*When English is selected, psi and Fahrenheit (°F) display. When Metric or Metric Text is selected, kPa and Celsius (°C) display.		

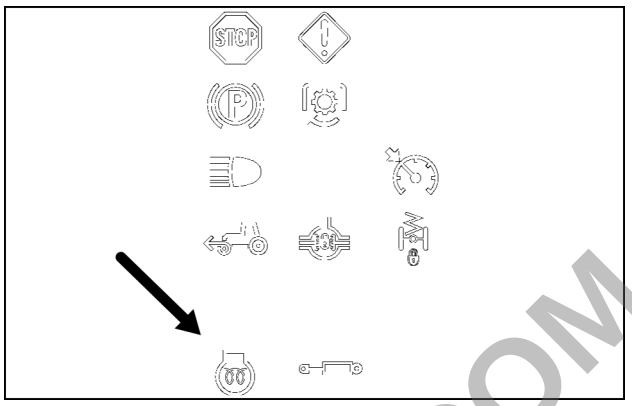
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Cold weather starting

This tractor is equipped with an electric grid heater to aid in cold weather starting. When starting the tractor in cold weather, the grid heater icon will appear in the lower left hand corner of the warning and indicator icon display. Follow the instructions in Step 4 above, but leave the key switch in the On position until the grid heater icon turns Off. Then continue with the starting procedure.

NOTICE: *Do not use ether fluid as a starting aid or serious engine damage will result.*



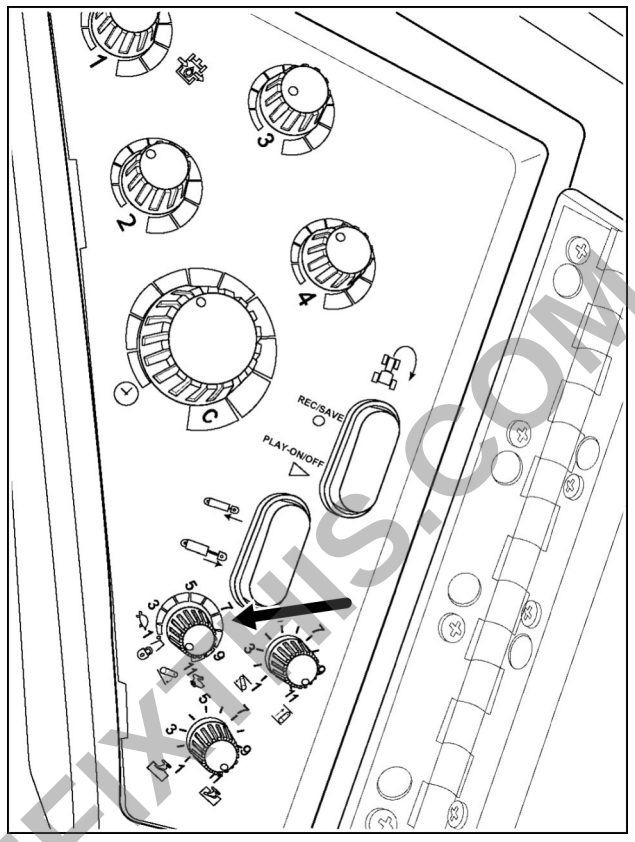
RCPH08CCH161AAC 7

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Drop speed control

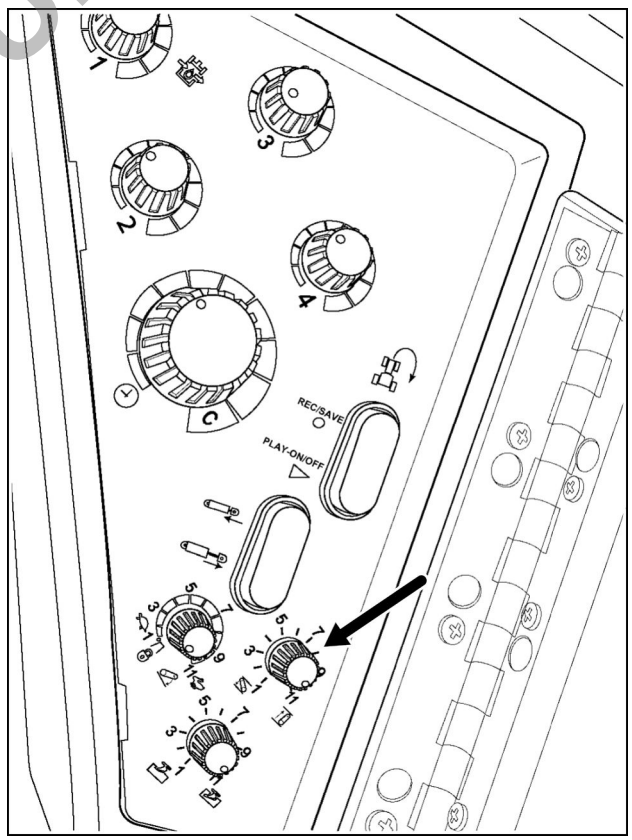
The Drop Speed control limits the hitch lowering speed and serves as the hitch transport lock. The control is located under the cover of the armrest console. Turn the control clockwise for faster hitch lowering, counterclockwise for slower hitch lowering. Drop Speed varies with the implement attached: planters need slower speeds to prevent seed tube plugging, while plows and rippers need faster speeds for better ground engagement. Turn the control fully counterclockwise to the detent position to put the hitch in transport lock mode.



RCPH08CCH854BAC 8

Upper limit control

The Upper Limit control limits upward hitch travel when the hitch is raised. The control is located under the cover of the armrest console. Rotate the knob counterclockwise to decrease upward hitch travel, clockwise to increase hitch travel. At setting “11,” the hitch raises completely. At setting “1,” the hitch raises approximately half way. Use the Upper Limit control to tailor upward hitch travel for specific implements, for example, hitch mounted PTO-driven implements.



RCPH08CCH854BAC 9

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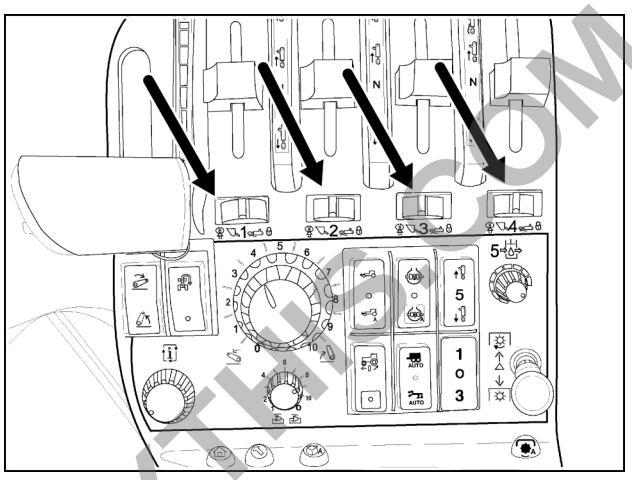
Changing the functional mode

⚠ WARNING ⚠

To prevent accidental lowering of implement, always use Lock Position function when transporting.

M848

Each function control selects the functional mode for the remote valve circuits. The function control has five positions.

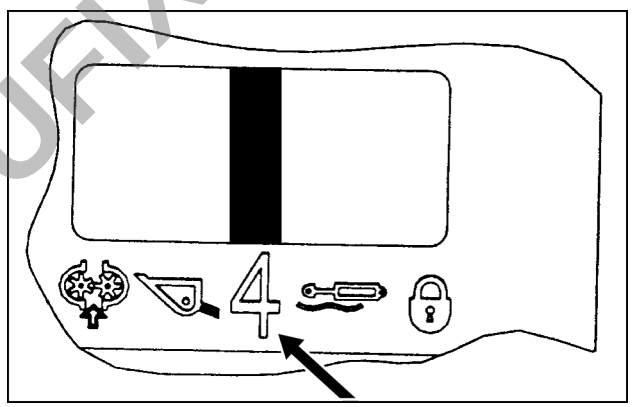


RCPH08CCH855FAC 1

Full function (neutral) position

This position allows the control lever for a remote valve to function in all 5 positions, including “float.”

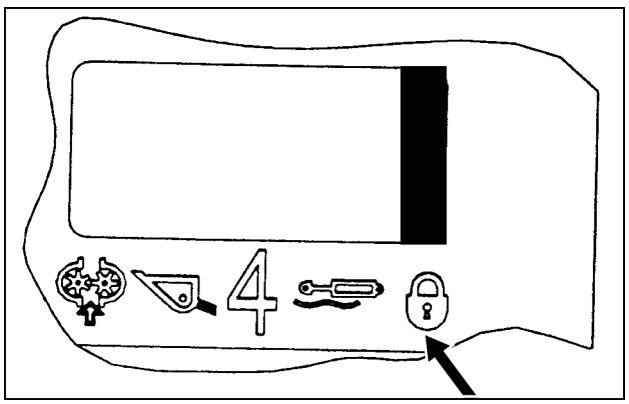
To operate a remote circuit in a “float” condition, the control must be in the full function (Neutral) position. Move a remote control lever fully forward to activate “float.”



RCPH08CCH879AAC 2

Neutral lock position

Control levers can be locked in neutral position to prevent moving the levers during transport. Move the control lever to the neutral position and rotate the function control to the right locked position. Repeat this for each hydraulic circuit that requires locking during transport.



RCPH08CCH877AAC 3

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Tread and fender settings - heavy duty and 3 meter axles

Factory tread setting at 1829 mm (72.0 in)

Tire size	Steering stop setting (degrees)	Oscillation stop
600/65R28 RIW	50 (41)	11
380/85R30 R1W 14.9R30 R1W	50	6
420/90R30 R1W 16.9R30 R1, R1W, R2	50	6
480/70R30 R1W	50	6
480/85R30 R2	34	6

Tire size	Steering stop setting (degrees)	Oscillation stop
600/70R30 R1W	34	6
380/85R34 R1W	46	6
420/85R34 R1W	44	6
480/70R34 R1W	44 (41)	6
540/65R34 R1W	39 (36)	6
320/85R38R1W	55	6
380/80R38 R1W	44	6
320/80R42 R1W	44	6
(XX) if long steer stop pin is used		

600/65R28RIW

Tread setting								Fender		Steer angle	Oscilla-tion stop		Duals without fenders					
60	64	68	72	76	80	84	88	Narrow	Wide		6 °	11 °	100	104	108	112	116	120
X									n/a	28	X							28
	X								X	39	X		Fenders not allowed with duals					
		X							X	25	X							
			X						X	50	X	X						
				X					X	50	X	X						
				X					n/a	55	X	X						
					X				X	55*	X							
					X				n/a	55	X	X						
						X			X	55*	X	X						
							X		X	55*	X	X						

600/70R30 R1W

Tread setting								Fender		Steer angle	Oscilla-tion stop		Duals without fenders					
60	64	68	72	76	80	84	88	Narrow	Wide		6 °	11 °	100	104	108	112	116	120
X									n/a	17	X		No tires/duals allowed with this tire					
	X								X	20	X							
	X								n/a	28	X		XX*= without fender stop bar					
		X							X	28	X							
		X							n/a	41	X							
			X						X	36*	X							
			X						n/a	46	X							
				X					X	42*	X							
				X					n/a	50	X							
					X				X	46*	X							
					X				n/a	50	X							
						X			X	46*	X	X						
						X			n/a	50	X	X						
							X		X	50*	X	X						
							X		n/a	55	X	X						

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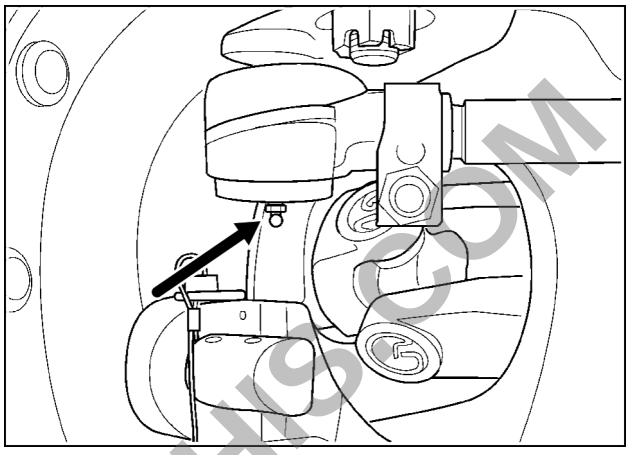
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Front axle (Note A)

Standard MFD axle

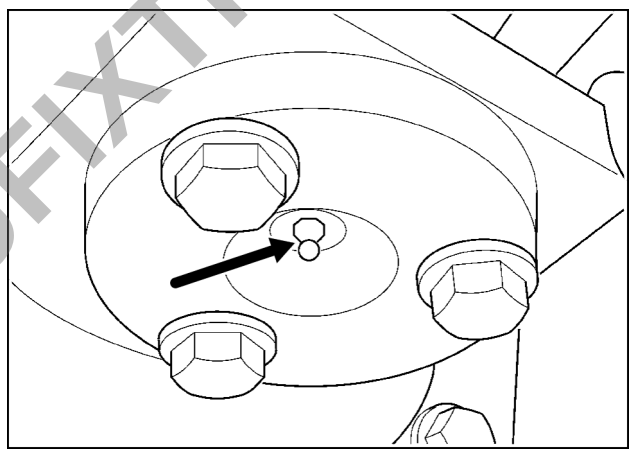
NOTE: *Use* ***CASE AKCELA 251H EP MULTI-PURPOSE GREASE*** *at the following locations:*

1. Steering cylinder outer ball (1 each side).



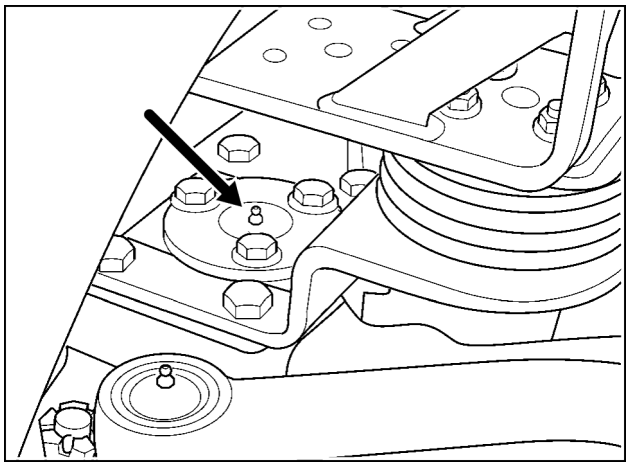
RCPH08CCH720AAC 1

2. Steering knuckle king pin, bottom (1 each side).



RCPH08CCH719AAC 2

3. Steering knuckle king pin, top (1 each side).



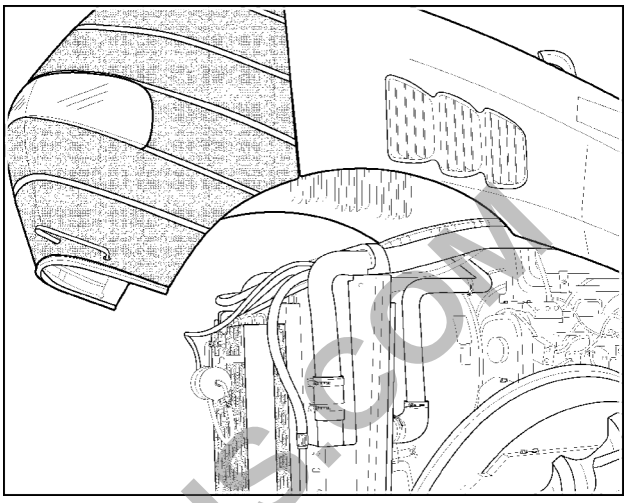
RCPH08CCH718AAC 3

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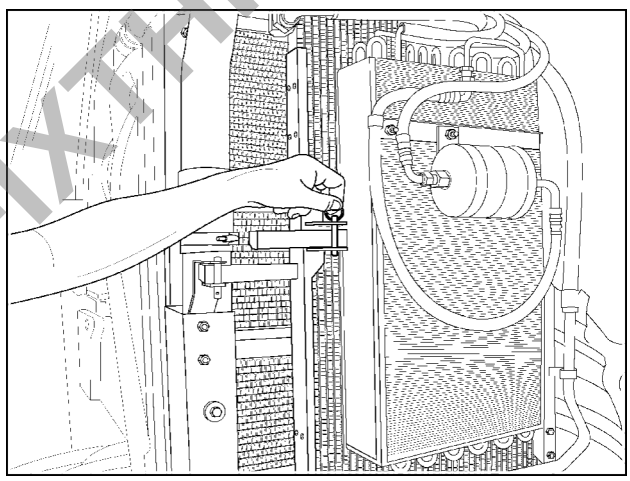
Grille screen and radiator area

1. To clean the grill screen and radiator area, raise the hood.



RCPH08CCH630AAC 1

2. Remove the retaining pins from the coolers.



RCPH08CCH634AAC 2

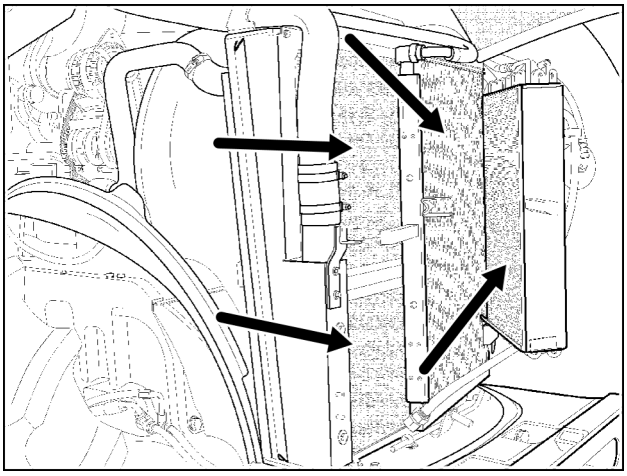
3. Swing the coolers open to clean dirt and dust from the cooling fins. Clean with compressed air or water.

⚠ WARNING ⚠

Wear appropriate eye and face protection when using compressed air. Flying debris and dirt can cause personal injury. Failure to comply could result in death or serious injury.

M994A

NOTICE: *Be careful not to bend or damage the fins during cleaning.*



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Cooling system

All models

Type	Pressure system, thermostat controlled bypass, impeller type pump
Radiator	Aluminum furnace brazed
Thermostat	Starts to open at approximately **83 °C** (**180 °F**) fully open at **95 °C** (**203 °F**)
Pressure cap, deaeration tank	**103 kPa** (**15 psi**)
Fan drive type	Viscous

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