

**JOHN DEERE  
JD770-A AND  
JD772-A  
MOTOR GRADERS  
(SERIAL NO. -500603)**



**JOHN DEERE**

**OPERATORS MANUAL**  
JOHN DEERE JD770-A AND JD772-A  
MOTOR GRADERS (SERIAL NO. -500603)

OMT71941 A1 English

**JOHN DEERE DUBUQUE WORKS  
OMT71941 A1**

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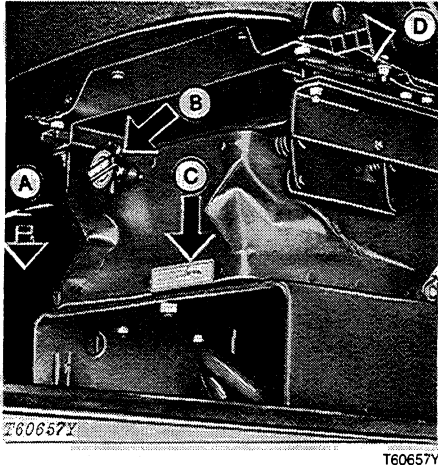


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## SEAT CONTROLS

### Cab Seat and Seat Without Cab



A - Vertical adjustment lever—Push down lever. Move seat to desired height. Release the lever.

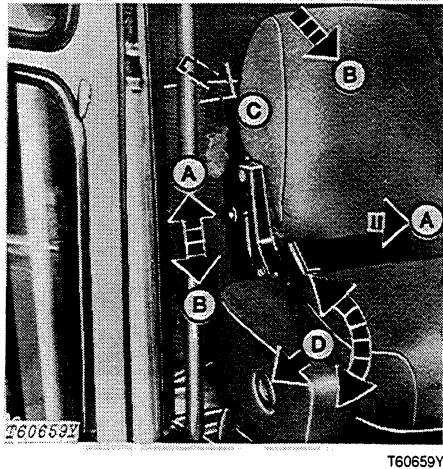
B - Weight adjustment knob—Turn clockwise for firm ride. Turn counterclockwise for soft ride. Use flip-out handle to crank the knob.

C - Weight adjustment indicator—Turn knob B until yellow pointer inside tube is flush with the tube.

D - Horizontal adjustment lever—Move the lever out. Move the seat forward or to the rear to the desired position. Release the lever.

3

### Cab Seat



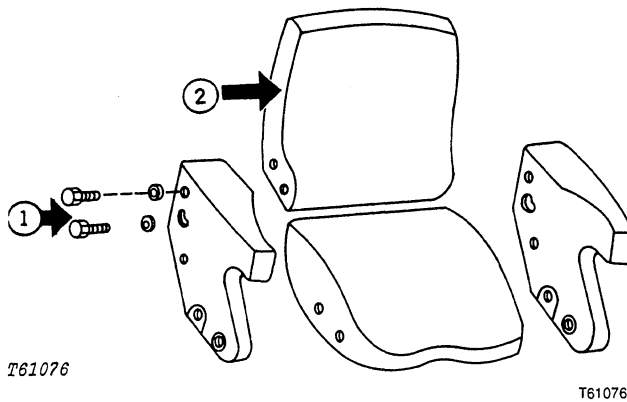
A - Backrest tilt knob—Raise the knob to tilt the bottom of the backrest forward.

B - Lower the knob to tilt the top of the backrest forward.

C - Backrest knob—Raise the knob for a soft backrest. Lower the knob for a firm backrest.

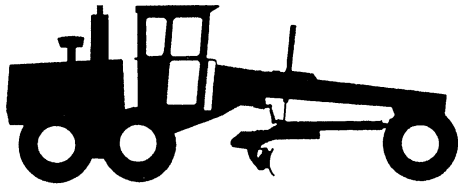
D - Armrest button—Hold button in. Move armrest up or down to the desired position. Release the button. Move the armrest up or down slightly to latch. Armrest will latch in four different positions. In lowest position the seat can be used as a bench seat.

### Seat Without Cab



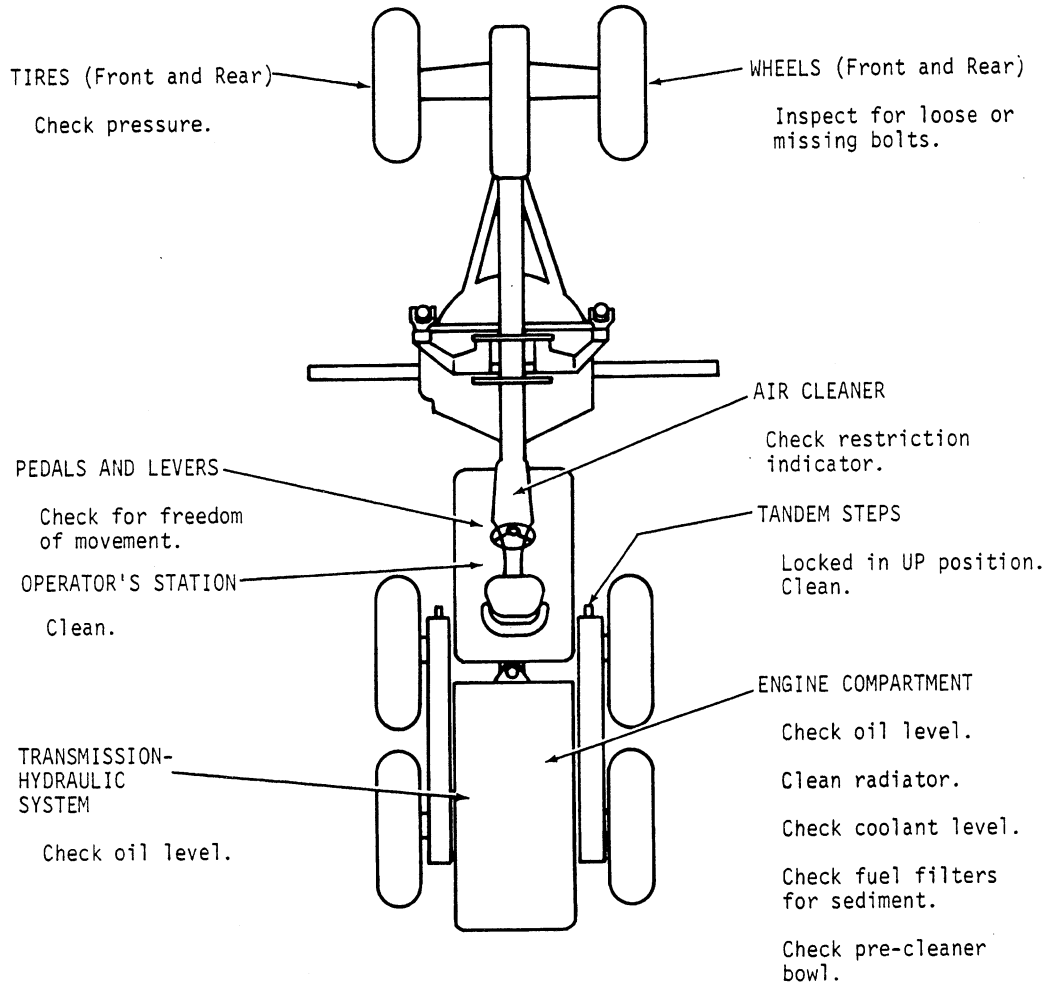
To adjust backrest:

1. Loosen two cap screws.
2. Move backrest to desired position.
3. Tighten cap screws.



# Pre-Start Inspection

Inspect the machine each day before you start it. Use the checks below.



**FIRE EXTINGUISHER**

Check charge.

**ELECTRICAL SYSTEM**

Check for worn or frayed wires and loose connections.

**BLADE, SCARIFIER, RIPPER, SHEET METAL**

Check for bent, broken, or missing parts.

**HARDWARE**

Check for loose or missing parts.

**HYDRAULIC SYSTEM**

Check for leaks, kinked hoses, and lines or hoses that rub against each other or other parts.

**LUBRICATION**

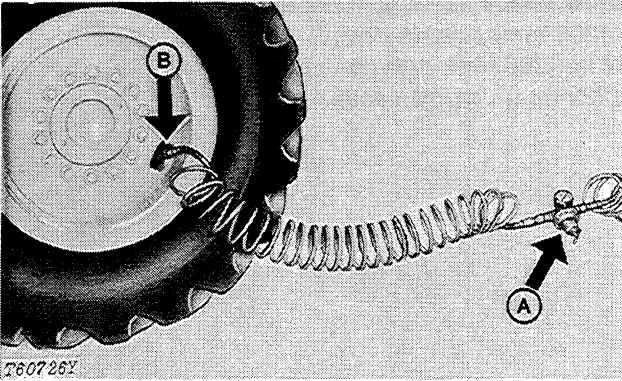
Check lubrication points on Periodic Service Chart.

**PROTECTIVE DEVICES**

Check guards, canopy, shields, ROPS, seat belt.

T74460

## Tire Pressure



T60726Y

Use a pressure regulating valve (A) with a locking chuck (B) to inflate ALL tires to SAME pressure.

When you inflate a tire, stand to front or rear of grader.

Tire Size	Ply Rating	Type	Inflation Pressure-psi (kPa)
13.00-24	12	G-2	35 (241)
14.00-24	10	G-2	30 (207)
14.00-24	12	G-2	35 (241)
17.5-25	12	L-2	30 (207)*

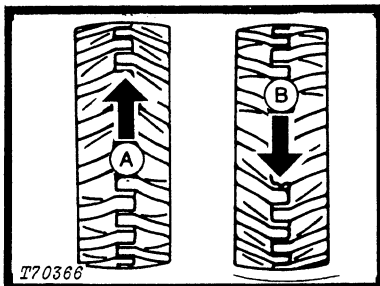
\*For sloping and ditching, inflate to 45 psi (280 kPa).

*NOTE: If you install a new rear tire, inflate rear tires so the rolling radius of all tires is the same.*

For maintenance work on established highways or for automatic blade control work, inflation pressure can be increased up to 50% if desired.

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## Tire Cleats

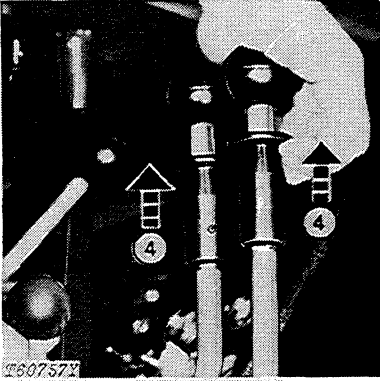


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Install tires as shown. "V" made by cleats is seen from in front of grader.

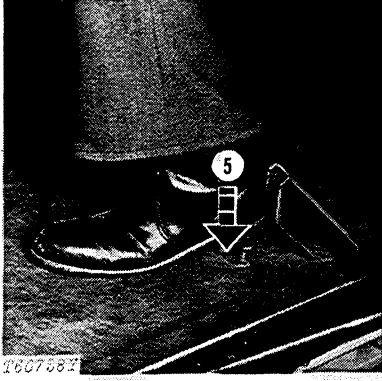
A - Front tires on JD770-A.

B - All tires on JD772-A and rear tires on JD770-A.



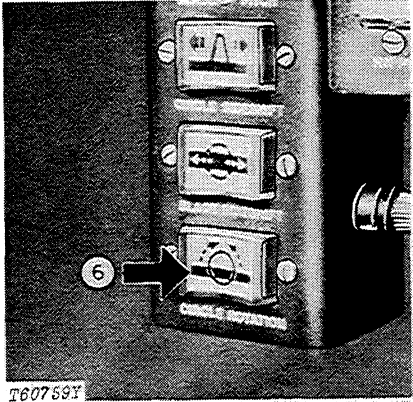
T60757Y  
T60757Y

4. Put blade lift cylinders in float position, if equipped.



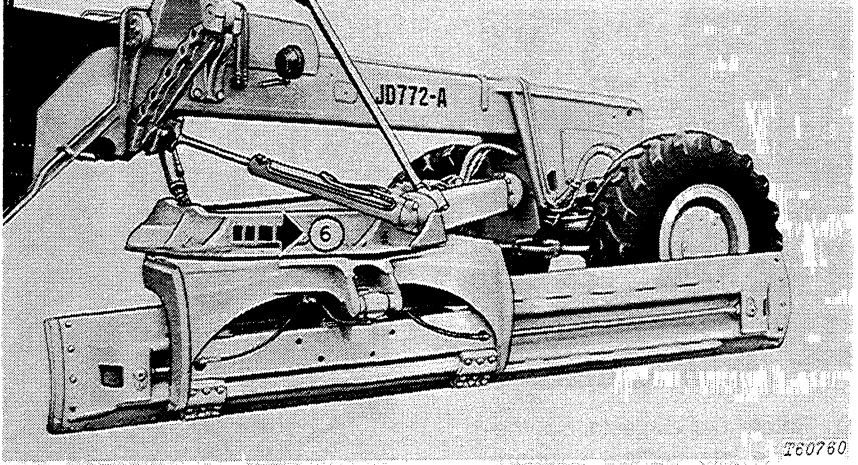
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5. Disengage lift arm locking pin.



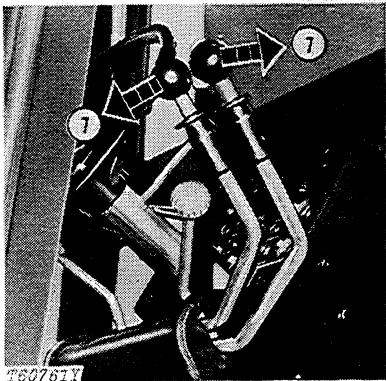
T60759Y  
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6. Rotate the circle counter-clockwise to put right end of blade forward.



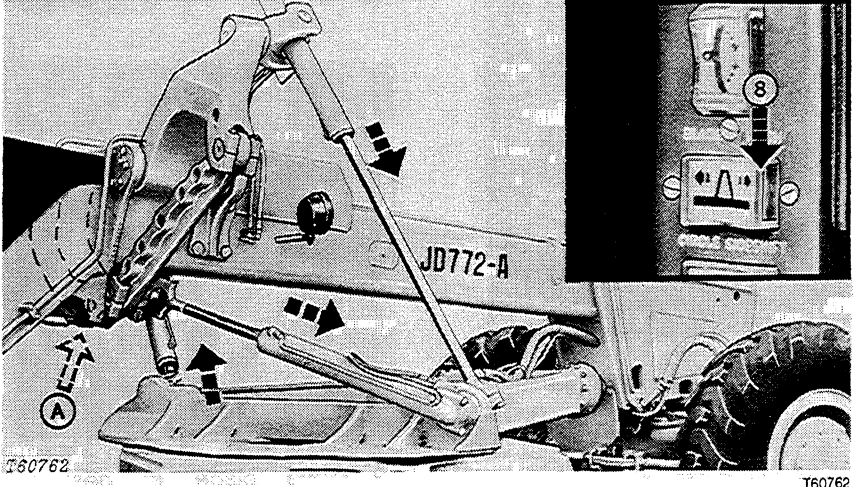
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T60761Y

7. Retract the left blade lift cylinder and extend the right lift cylinder.



T60762  
T60762

8. At the same time, side-shift the circle fully to the right. Move these controls as necessary to engage the locking pin in the left lift arm (A).

# PERIODIC SERVICE CHART

Item	Component	Service	Lubricant
<b>AS REQUIRED</b>			
1.	Pre-cleaner	Check level of material in the bowl.	
2.	Circle	Brush grease on all contact surfaces	MPG
<b>DAILY OR EVERY 10  HOURS</b>			
3.	Air cleaner	Check restriction indicator	
4.	Engine oil	Check level	EO
5.	Radiator	Check coolant level	
6.	Transmission and hydraulic system	Check oil level	JDHG
7.	Frame pivot, front axle pivot pins and cylinders	Lubricate	MPG
<b>EVERY 50  HOURS</b>			
8.	Cylinders, trunnions, draft frame and circle supports	Lubricate	MPG
9.	Scarifier	Lubricate	MPG
10.	Ripper	Lubricate	MPG
11.	Batteries	Check electrolyte level Check terminals for corrosion	
12.	Tires	Check air pressure	
<b>EVERY 200  HOURS</b>			
13.	Lift arm locking pin	Lubricate	MPG
14.	Fuel tank sediment bowl	Drain sediment bowl	
15.	Engine oil	Drain and fill	EO

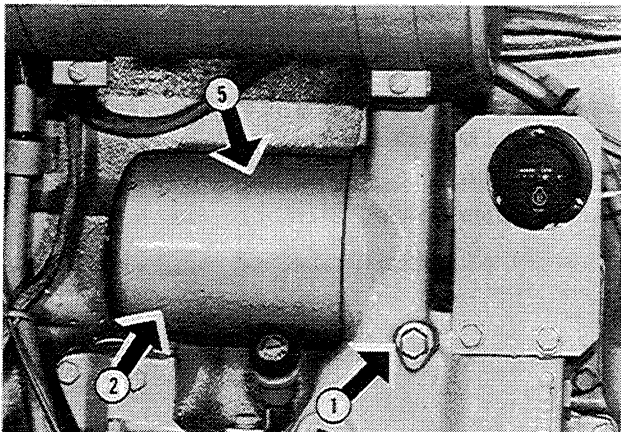
**Lubricant Key:**

**MPG**—John Deere Multi-Purpose Grease or equivalent.  
**EO** —Engine Oil

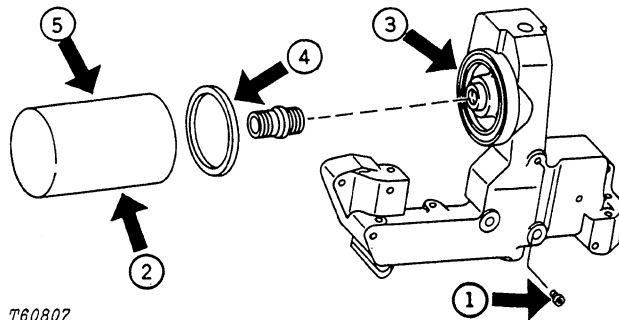
**EPO** —Extreme Pressure Oil  
**JDHG**—John Deere HY-GARD Transmission and Hydraulic Oil or equivalent.  
**JDFE**—John Deere Filter Element

16.

## Engine Oil Filter



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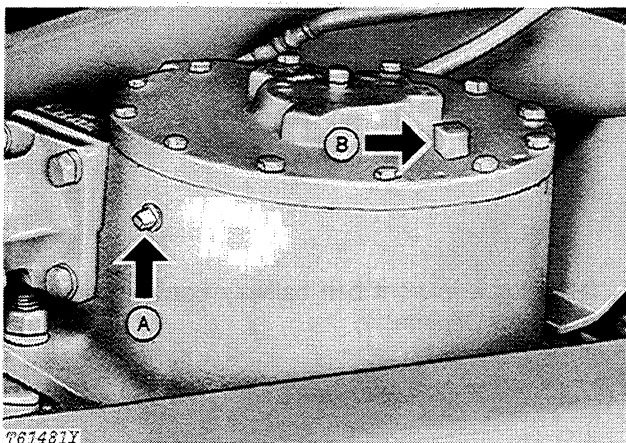
1. Remove pipe plug. Drain filter. Install plug.
2. Remove filter (turn counterclockwise).
3. Clean the mounting surface.
4. Apply film of oil to packing.
5. Tighten new filter until packing touches mounting surface.
6. Turn the filter 1/2 to 3/4 turn more.

**IMPORTANT: Before you start the grader after a filter change, crank the engine for 20 seconds with hand throttle in stop position.**

7. Start engine. Check for leaks around filter. Tighten filter only enough to stop leaks.
8. Stop engine. Check oil level.

17.

## Circle Drive Gearbox



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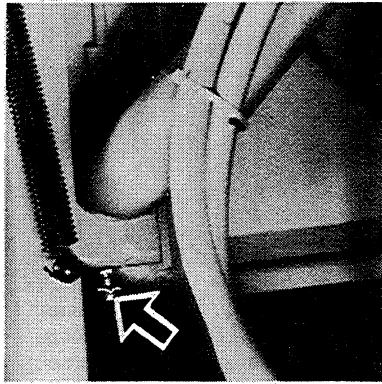
1. Park the grader on level ground.
2. Lower the blade to the ground.
3. Remove the oil level plug (A). Oil should be level with the hole.
4. If oil is needed, remove filler plug (B). Add oil specified on page 46.
5. Install filler plug and oil level plug.

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## COOLING SYSTEM

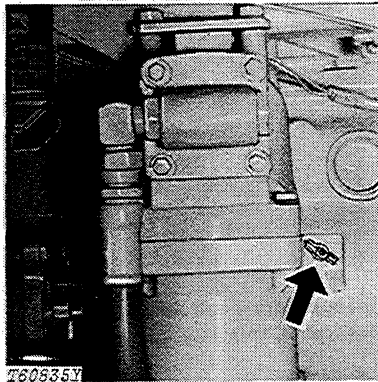
Drain, flush, and fill cooling system approximately every 1000 hours. Capacity is 10 U.S. gallons (38 L). Coolant level (cold) should be 4 in. (102 mm) below the filler cap.

**CAUTION:** Do not remove radiator cap unless engine is cool. Then turn the cap slowly to the stop. Release all pressure before you remove cap.



T74520

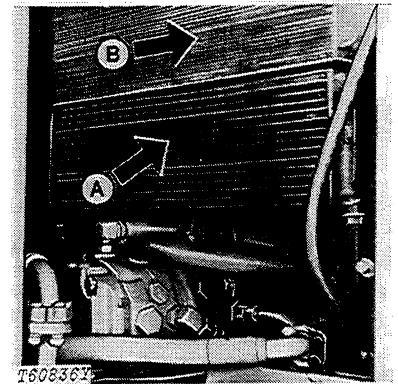
Radiator Drain



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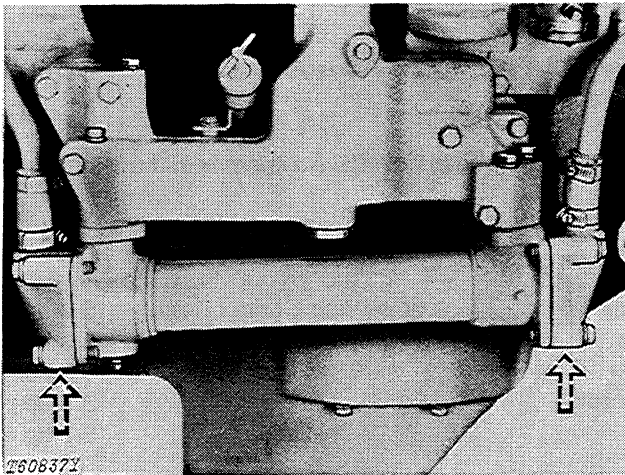
Cylinder Block Drain



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T60836Y

A—Hydraulic Oil Cooler  
B—Radiator



T60837Y

T60837Y

Engine Oil Cooler Drain Plugs

To drain the cooling system:

1. Open radiator and cylinder block drain cocks.
2. Remove engine oil cooler drain plugs.

Flush the cooling system with John Deere Heavy Duty Cooling System Cleaner with Detergent, John Deere Cooling System Quick Flush, or with an equivalent radiator cleaning compound.

For cold weather, fill the cooling system with 50% antifreeze (ethylene glycol type) and 50% clean, soft water. For weather above freezing, fill the cooling system with clean, soft water. Add non-chromate rust inhibitor every 500 hours or six months after you change coolant. Add inhibitor when you fill coolant system with water, or if you replace one-third or more of water. If you install new antifreeze, do not add inhibitor until the next 500 hour service.

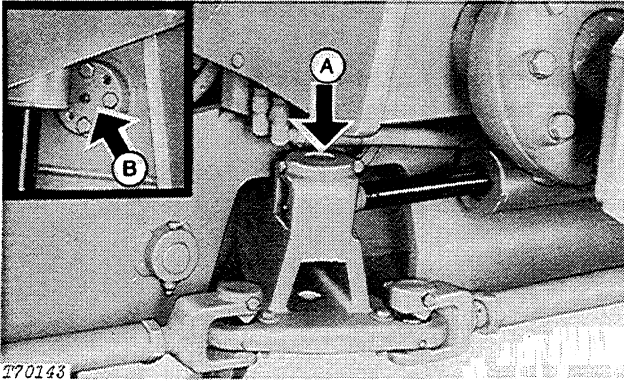
Add John Deere Cooling System Sealer or equivalent to seal leaks in cooling system.

Check coolant system hoses for cracks and tighten hose clamps approximately every 500 hours.

Install new hoses as necessary.

Clean radiator fins and hydraulic oil cooler fins as necessary with water pressure under 40 psi (280 kPa) or compressed air.

## Toe-In



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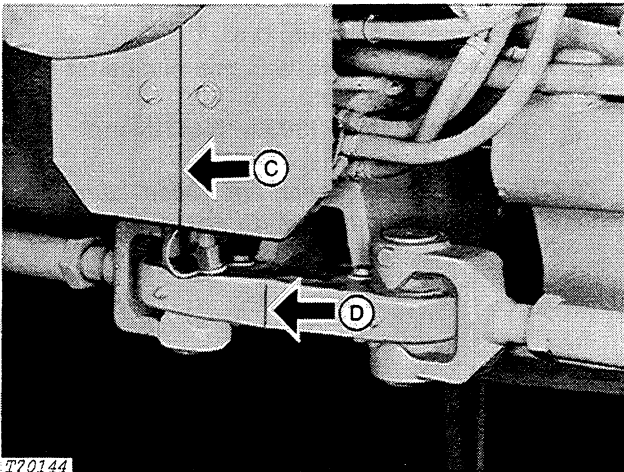
Check toe-in regularly.

### Checking Toe-In

Park the grader on a level surface.

Use the blade or scarifier hydraulics to lift the front wheels off the ground. Block the front axle.

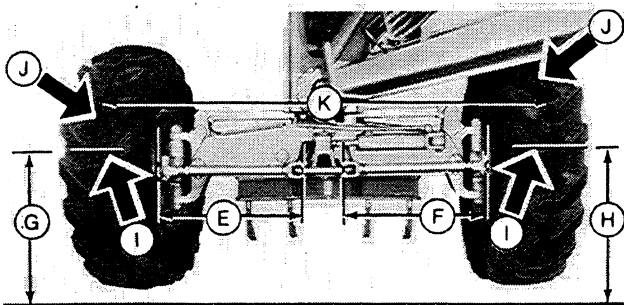
JD770-A - Turn wheels to align the steering cylinder pin (A) with the oscillation pin (B).



T70144

T70144

JD772-A - Draw a line through the center of plate (C) and through the center of bell crank (D). Turn the wheels to align these two lines.



T70145

T70145

Measure the distance (E) from center to center of tie rod pins. Measure the distance (F) from center to center of tie rod pins. The measurement between the two dimensions should be within 0.10 in. (2.5 mm).

Measure the distance (G) and (H) from the floor to the center of the axle. Record measurement of each side.

Draw a horizontal chalk line (I) on the backside of each tire at the "G and H" height. Draw a vertical line (J) through the horizontal line at the approximate center of each tire.

Measure and record the distance (K) between the tire center lines at the "G and H" axle height.

## ELECTRICAL SYSTEM

Problem	Cause	Solution	Page
Batteries will not take a charge.	Loose or corroded connections.	Clean and tighten.	
	Low battery power.	Install new batteries.	57
	Alternator belt loose or not working correctly.	Tighten or install new belt.	60
	Alternator cut-in speed incorrect.	See your John Deere dealer.	
Starter does not work or turns slowly.	Loose or corroded connections.	Clean and tighten.	
	Low battery power.	Check condition of battery fluid. See your John Deere dealer.	
	Wrong engine oil.	Use correct oil.	45

## AIR CONDITIONING

Controls will not operate.	Fuse blown.	Install new fuse.	70
Air conditioner will not cool.	Blower air flow too high.	Adjust air flow to medium or low.	32
	Compressor belt slipping.	Adjust compressor belt tension.	72
	Low refrigerant.	See your John Deere dealer.	
	Condenser core plugged.	Clean core.	
	Heater turned on.	Turn heater off.	33
	Compressor not running.	Check for clicks as electric clutch engages on compressor. Check fuse in cab. Check thermo-fuse on back of compressor. Check electric clutch.	
Blower fan air flow too low.	Plugged filters or air intake louvers.	Clean filters or louvers.	81

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