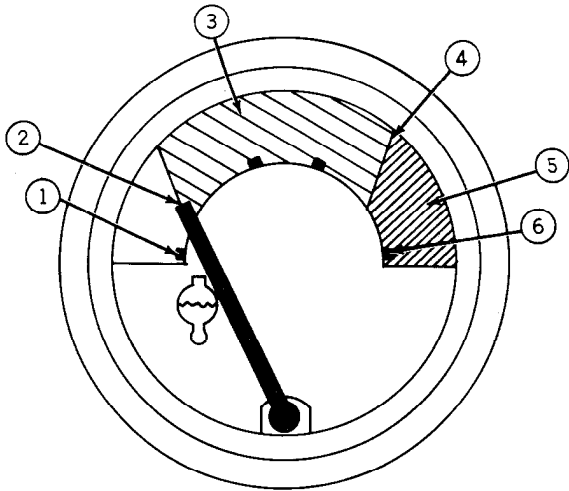


Check the operation of the gauges.



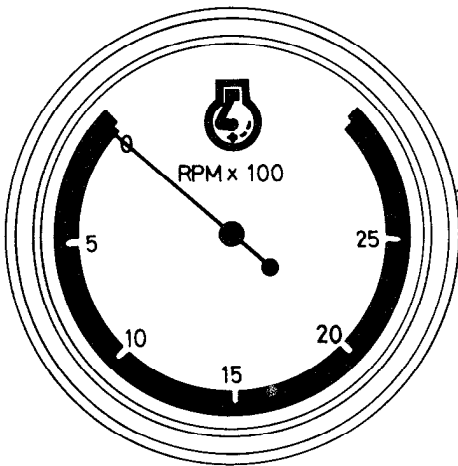
- 1—100°F (38°C)
- 2—135°F (57°C)
- 3—Light Green
- 4—224°F (107°C)
- 5—Red - Orange
- 6—240°F (116°C)

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T45483N

Fig. 24-Engine Coolant Temperature Gauge

The light green zone (3) shows the normal operating temperatures.

IMPORTANT: If the indicator hand goes into the RED-ORANGE ZONE (5), stop the engine. Find the cause.



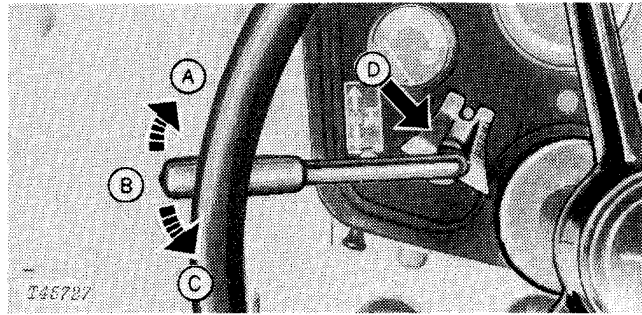
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T45484N

Fig. 25-Tachometer

The tachometer shows engine rpm.

Indicator lights and gauges checked Yes No

14. Reverser



- A—Forward
- B—Neutral
- C—Reverse
- D—Neutral Lock

Fig. 26-Reverser Lever

Move the reverser lever to change the direction of travel in any gear while moving without using the clutch or shift levers.

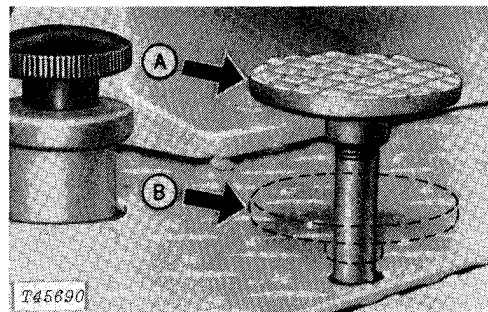
IMPORTANT: Do not change direction at high speeds.

Do not operate the backhoe with the reverser lever in reverse position.

See page I-IV-26 for reverser speed-of-shift adjustment.

Reverser checked Yes No

15. Differential Lock



- A—Disengaged
- B—Engaged

Fig. 27-Differential Lock Pedal

Check differential lock operation.

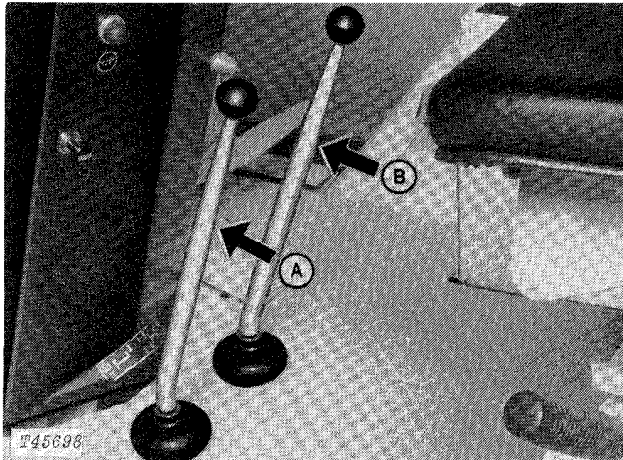
1. Extend one stabilizer to lift one rear wheel off the ground.

2. Stop the engine. Engage the differential lock (push the pedal down).

3. Attempt to turn the raised wheel manually. If the differential lock is working correctly, the raised wheel will lock in place.

Differential lock checked Yes No

16. Transmission Shifting



1—Range Shift Lever 2—Gear Shift Lever

Fig. 28-Transmission Shift Levers

Check operation of the transmission in all ranges and gears.

Transmission checked Yes No

17. Brakes

Check the operation of the hydraulic brakes.

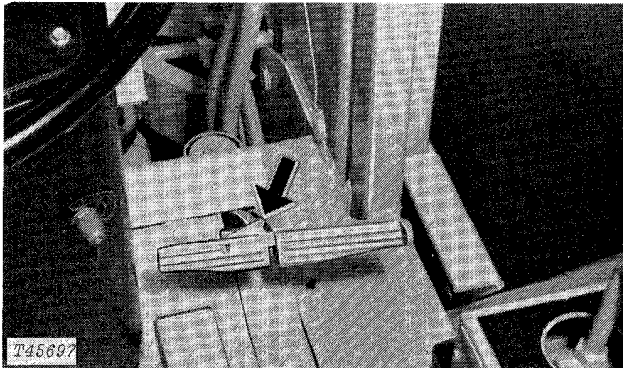


Fig. 29-Brake Pedals Connected

Put the machine in gear. Push down the brake pedal. Moderate pedal force must hold the machine in place.

Remove air from the brake system:

1. If moderate pedal force does not hold the machine in place.
2. If the pedal feels spongy.
3. If the pedal has too much travel.

See page I-IV-27 for the correct procedure.

Brakes checked Yes No

18. Clutch



A—0.75 in. (19 mm) Maximum Clearance B—Clutch Pedal Stop

Fig. 30-Clutch Pedal Adjustment

Check the clutch pedal adjustment.

Put the clutch pedal stop down. Push down the clutch pedal until the throwout bearing contacts the clutch fingers.

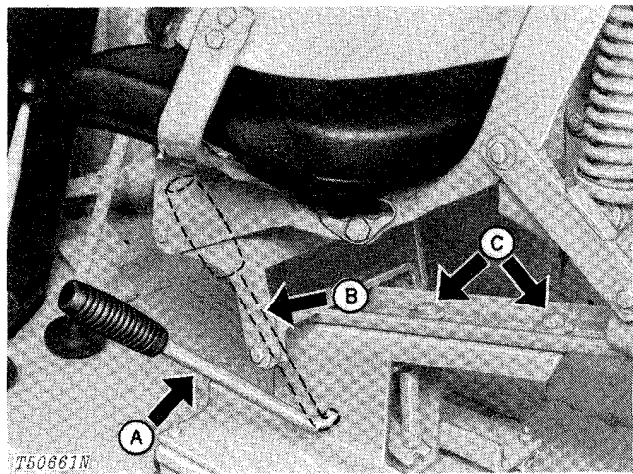
Clearance between the platform and the stop must not be greater than 0.75 in. (19 mm).

If adjustment is needed, see page I-IV-28.

Clutch pedal adjustment checked Yes No

19. Seat

Check the operation of the seat.



A—Seat Control Handle Locked

B—Seat Control Handle Unlocked
 C—Height Adjustment

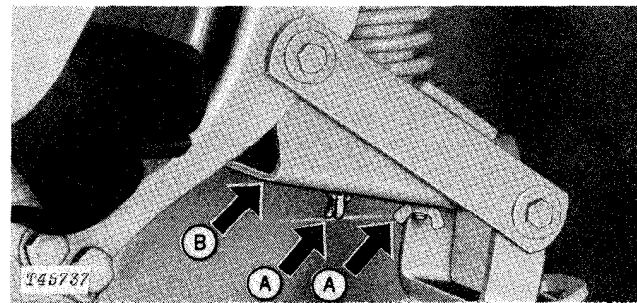
Fig. 31-Seat Control and Adjustment

To move the seat for loader or backhoe operation:

1. Lift the seat control handle (B).
2. Slide the seat forward or to the rear.
3. Turn the seat 180°.
4. Release the handle (A). Seat must lock in place.

To change the height of the seat:

1. Loosen cap screws (C).
2. Slide the seat to the desired position.
3. Tighten the cap screws.



A—Wing Nuts

B—Slide

Fig. 32-Ride Adjustment

To change the ride adjustment:

1. Move seat to the upper rear position. See step 1 below.
2. Loosen wing nuts (A).
3. Move the slide to the desired position.
4. Tighten wing nuts.
5. Move seat to normal position. Seat must lock in position when you sit on it.

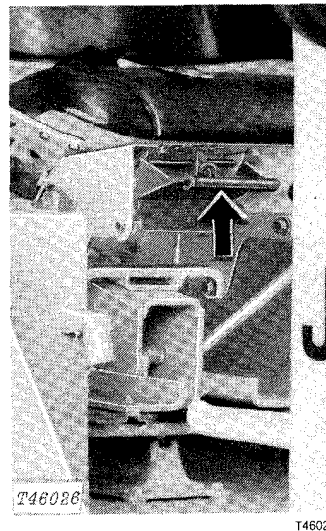


Fig. 33-Seat Release Latch

To move the seat to the upper rear position:

1. While seated, lift the latch.
2. Move the seat to the upper rear position.
3. When moving seat forward to normal position, stay in the seat.

Seat checked

Yes No

20. Accumulator

Check the accumulator action.

Run the engine five to ten minutes. Stop the engine. The steering wheel must turn easily until all hydraulic pressure is released.

If the steering wheel cannot be turned immediately after stopping the engine, the accumulator needs repair.

CAUTION: The accumulator is charged with nitrogen gas under high pressure. When servicing accumulator, see Group 2160.

Accumulator checked

Yes No

1. Power Steering

Check the operation of the power steering. Start the engine. The steering wheel must turn easily in both directions.

Number of turns:

Far left to far right 3

Far right to far left 2-3/4

Check lines and cylinders for leakage.

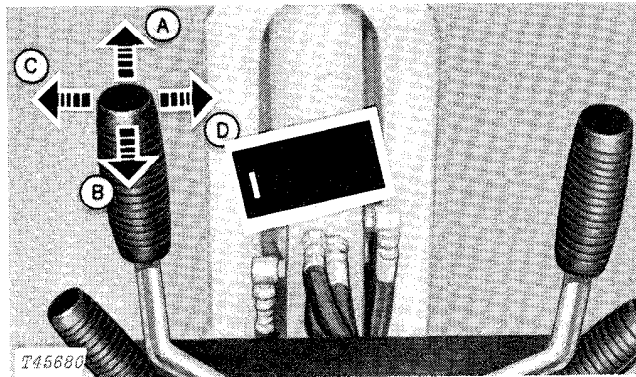
Power steering checked Yes No

22. Backhoe Controls

Check the operation of the backhoe controls.

CAUTION: Do not operate backhoe controls unless you are in the operator's seat facing the backhoe.

IMPORTANT: Do not operate the backhoe with the reverser lever in the reverse position.

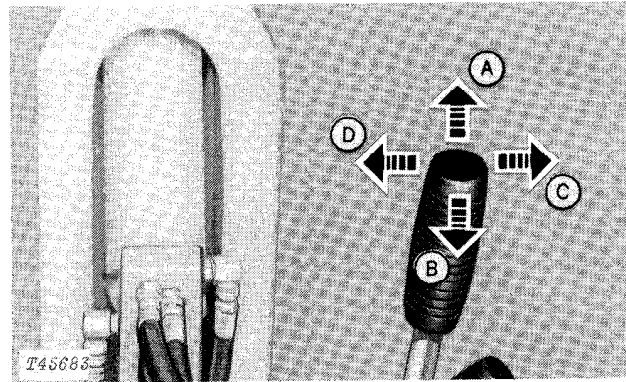


A—Lower Boom
 B—Raise Boom
 C—Boom Left
 D—Boom Right

Fig. 34-Boom Control Lever

Move the lever to one of the intermediate positions to swing the boom left or right at the same time it is being raised or lowered.

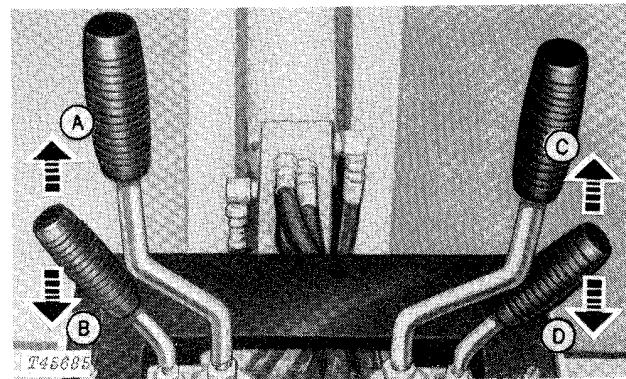
A swing brake automatically slows the boom before it hits the stops on the main frame.



A—Dipperstick Out
 B—Dipperstick In
 C—Dump Bucket
 D—Retract Bucket

Fig. 35-Bucket and Dipperstick Control Lever

Move the lever to one of the intermediate positions to extend or retract the dipperstick at the same time the bucket is being loaded or dumped.



A—Left Stabilizer Down
 B—Left Stabilizer Up
 C—Right Stabilizer Down
 D—Right Stabilizer Up

Fig. 36-Stabilizer Control Levers

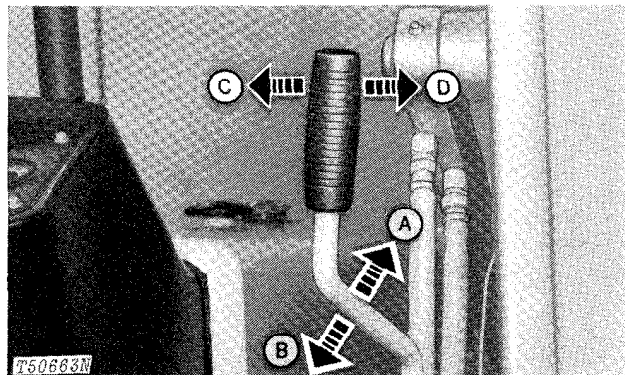
The stabilizers can be raised or lowered one at a time or together.

Backhoe controls checked Yes No

23. Loader Control Lever

Check the operation of the loader control lever.

CAUTION: Do not operate the loader control lever unless you are in the operator's seat facing forward.



A—Lower Boom
 B—Raise Boom
 C—Retract Bucket
 D—Dump Bucket

Fig. 37-Boom and Bucket Control

For faster cycle times, move the lever to intermediate positions.

Move the lever farther to dump or retract the bucket faster.

After dumping the bucket, return the control lever immediately to neutral position.

If the lever is released during normal loader operation, it will return to neutral and the boom will be held in position.

Push the control lever all the way forward for float position. The lever will stay in this position until it is manually returned to neutral.

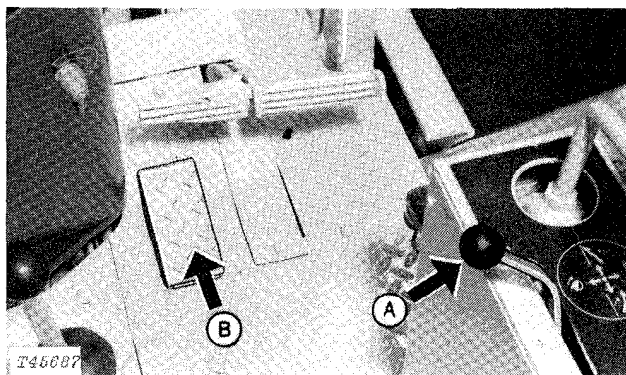
Loader control checked Yes No

24. Speed Controls

Check the operation of the accelerator pedal and the hand throttle.

Use the accelerator pedal to speed up the engine quickly. When the pedal is released, the engine speed will go back to the hand throttle setting.

Check hand throttle lever for freedom of movement



A—Hand Throttle B—Accelerator Pedal

Fig. 38-Speed Controls

Speed controls checked Yes No

25. Lights

Check the operation of the lights and light switch.

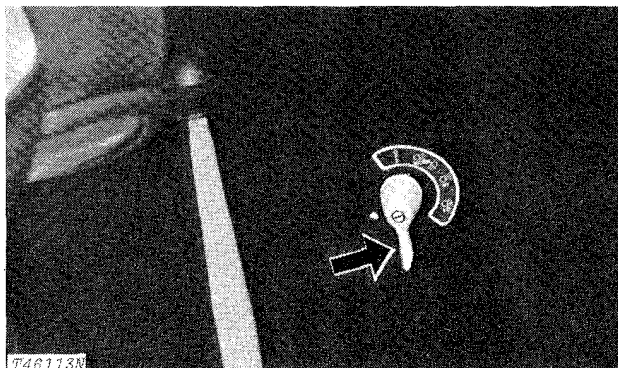
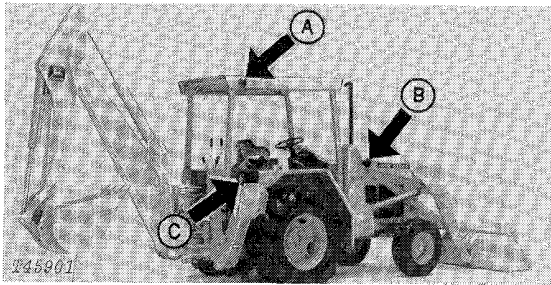


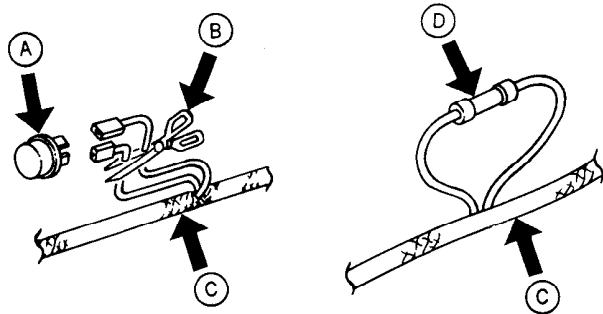
Fig. 39-Light Switch

Switch Position	Lights On
Off	All lights off
Work	B (bright) and C (white)
Hi	A, B (bright) and C (red)
Lo	A, B (dim) and C (red)



A—Warning Lamps
 B—Head Lights
 C—Rear Combination Lights

Fig. 40-Backhoe Loader Lights



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Fig. 41-Disconnecting Flashing Unit

NOTE: If flashing lights are prohibited by local regulations:

- A - Disconnect flasher unit.
- B - Cut off both female connectors on wiring lead from lamp circuit.
- C - Connect using R32028R Splice Terminal (D) (for 10-12 gauge wire) or equivalent.

Lights and light switch checked Yes No

26. Parking Brake

Check the operation of the parking brake.

1. To engage, pull up the lever until firm resistance is felt. The brake latch must be approximately in the center notch. If not, see page I-IV-33 for adjustment.

2. To disengage, lift the lever slightly and push the button. Push the lever down and release the button.

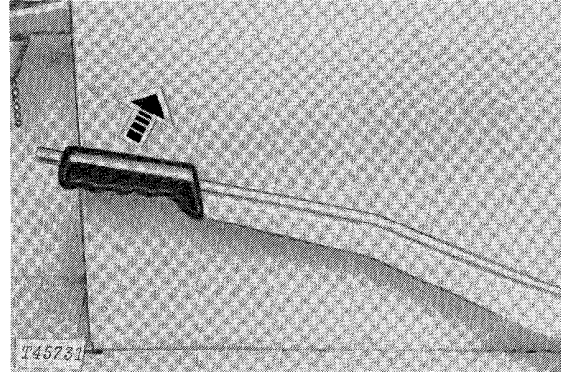


Fig. 42-Parking Brake

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NOTE: The parking brake warning light will glow when the key switch is on and the parking brake is engaged. The horn will blow also if the transmission is shifted from neutral when the parking brake is engaged.

Parking brake checked Yes No

27. Wheel Retainers

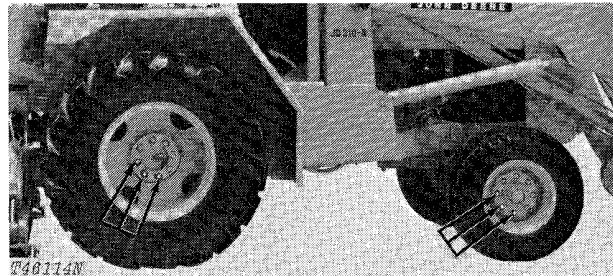


Fig. 43-Wheel Retainers

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Check wheel retainer cap screw torque.

Tighten front wheel retainers to 100 lb-ft (136 N·m) (14 kg-m).

Tighten rear wheel retainers to 425 lb-ft (576 N·m) (60 kg-m).

Wheel retainer torque checked Yes No

28. Backhoe Tapered Pins

Check the torque on the backhoe tapered pins.

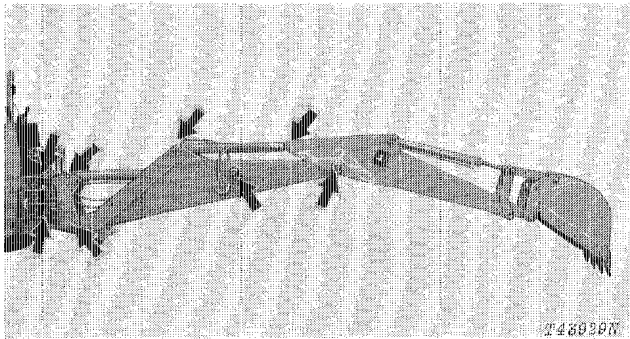


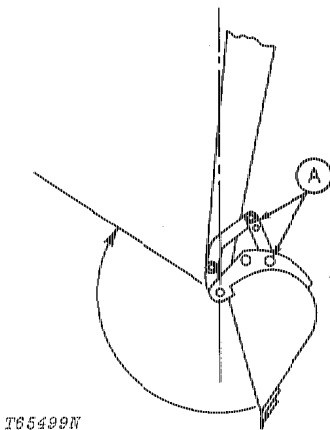
Fig. 44-Backhoe Tapered Pins

Use the torque chart on page I-II-1. If pins need to be tightened, follow the procedure on page -IV-34.

Tapered pins checked Yes No

29. Bucket Position

Be sure the backhoe bucket is in the power dig position.

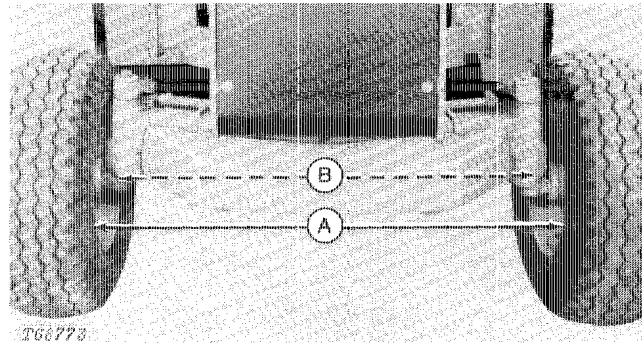


A—Install Pins

Fig. 45-Power Dig Position

30. Tow-In

Check the front wheel toe-in.



A—Distance Between Rims At Front

B—Distance Between Rims At Rear

Fig. 46-Checking Toe-In

1. Use down pressure of loader bucket to raise front wheels. Turn wheels so each valve stem is at bottom of the wheel.
2. Lower wheels to ground.
3. Measure from ground to hub.
4. Mark this distance on inside of each rim at the head of tire front and rear.
5. Measure distance between rims at front and rear marks.
6. Distance between front of rims must be 1/8 to 3/8 in. (3 to 9.5 mm) less than distance between rear of rims.

If adjustment is needed, see page I-IV-34.

Toe-in checked Yes No

31. Accessible Hardware Torque

Check all accessible bolts and nuts for the correct tightness. If hardware is loose, tighten it to the correct torque. See the torque chart on page I-II-1.

Accessible hardware checked Yes No

32. Fluid Leakage

Check the following systems for leakage due to poor or faulty connections and broken hoses or lines.

- | | | |
|--------------------------------|-----|----|
| A. Cooling system checked | Yes | No |
| B. Hydraulic system checked | Yes | No |
| C. Transmission system checked | Yes | No |
| D. Fuel system checked | Yes | No |

33. Final Check

Clean the whole unit. Make the unit LOOK like a new machine. Touch up any chipped paint. Wash the machine thoroughly. Deliver to the customer a machine anyone would be proud to own.



Suggest:

If the above button click is invalid.

Please download this document

first, and then click the above link

to download the complete manual.

Thank you so much for reading