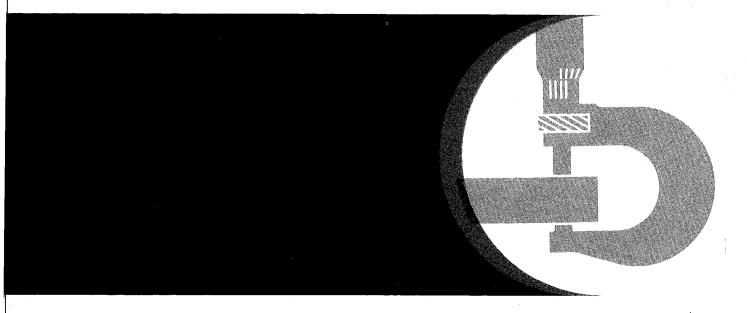
John Deere JD401-B Tractor and Loader





TECHNICAL MANUAL

TM-1091

Litho in U.S.A. (T) (Revised)

JD401-B Tractor and Loader

Technical Manual

TM-1091 (Jan-79)

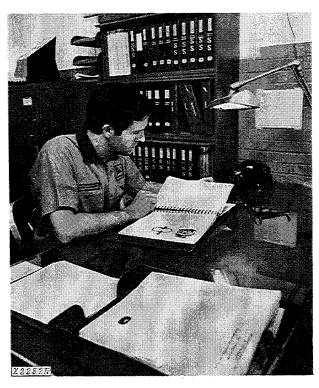
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The specifications and design information contained in this manual were correct at the time this machine was manufactured. It is John Deere's policy to continually improve and update our machines. Therefore, the specifications and design information are subject to change without notice. Wherever applicable, specifications and design information are in accordance with SAE and ICED standards.

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INTRODUCTION



Use FOS Manuals for Reference

This technical manual is part of a twin concept of service:

The two kinds of manuals work as a team to give you both the general background and technical details of shop service.

•FOS Manuals—for reference

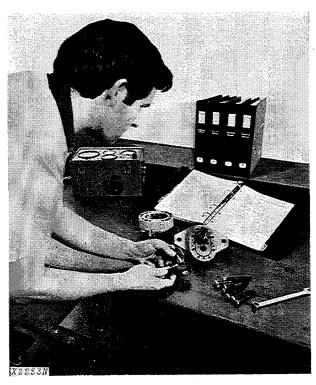
Fundamentals of Service (FOS) Manuals cover basic theory of operation, fundamentals of trouble shooting, general maintenance, and basic types of failures and their causes. FOS Manuals are for training new personnel and for reference by experienced technicians.



When a service technician should refer to a FOS Manual for more information, a FOS symbol like the one at the left is used in the TM to identify the reference.

•Technical Manuals—for actual service

Technical Manuals are concise service guides for a specific machine. Technical manuals are on-the-job guides containing only the vital information needed by an experienced service technician.



Use Technical Manuals for Actual Service

This technical manual was planned and written for you—an experienced service technician. Keep it in a permanent binder in the shop where it is handy. Refer to it whenever in doubt about correct service procedures or specifications.

Some features of this manual:

- Inside front cover "Table of Contents" and "Maintenance Without Accident".
- Section 10 General specifications and services
- Sections 20 through 60 Removal, repair, testing (components removed), installation, and adjustment.
- Section 70 Detailed explanation of system operation, diagnosis, visual inspection, testing, and adjustments.
- Specifications grouped and illustrated at the end of each section.
- Inside rear cover-Index.

MAINTENANCE WITHOUT ACCIDENT WORK SAFELY



This safety alert symbol identifies important safety messages in this manual and on the tractor. When you see this symbol, be alert to the possibility of personal injury and carefully read the message that follows.

EVERY EMPLOYER HAS A SAFETY PROGRAM. KNOW WHAT IT IS!



Consult your shop foreman for specific instructions on a job, and the safety equipment required.

For instance, you may need: Hard hat, safety shoes, safety goggles, heavy gloves, reflector vests, ear protectors, respirators.



BE ALERT!

Plan ahead—work safely—know how to use a first-aid kit and a fire extinguisher—and where to get aid and assistance.



Maintenance Area

Make sure the maintenance area is adequately vented.

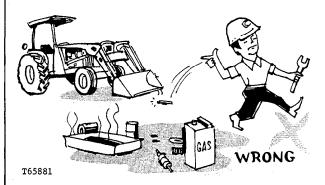
Keep maintenance area CLEAN AND DRY. Oily and wet floors are slippery; greasy rags are a fire hazard; wet spots are dangerous when working with electrical equipment.

Store starting aids in a cool and well-ventilated place, out of the reach of unauthorized personnel.

MAINTENANCE WITHOUT ACCIDENT

AVOID FIRE HAZARDS—

Fuel Is Dangerous!



Don't smoke while refueling.

Don't smoke while handling highly flammable material.

Engine should be shut off when refueling.

Use care in refueling if the engine is hot.

Don't use open pans of gasoline or diesel fuel for cleaning parts. Good commercial, nonflammable solvents are preferred.

Battery Gas Is Highly Flammable!

Provide adequate ventilation when charging batteries.



Don't check battery charge by placing metal objects across the posts.

Don't allow sparks or open flame near batteries. Don't smoke near battery.

Flame Is Not a Flashlight!

NEVER USE OPEN FLAME AROUND THE MA-CHINE.

KNOW WHERE FIRE EXTINGUISHERS ARE KEPT!

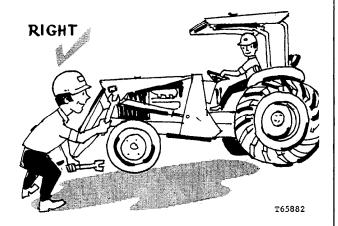
UNDER ALL MAINTENANCE CONDITIONS—

Do not perform any work on the equipment unless authorized to do so. Then be sure you know the safe and proper procedure.

Follow recommended procedures.

Never service the equipment while it is being operated.

Avoid working on equipment with the engine running.



If it is necessary to make checks with the engine running, **ALWAYS USE TWO** service technicians—one, the operator, at the controls, the other checking within sight of the operator.

KEEP HANDS AWAY FROM MOVING PARTS

Support all raised equipment.

Never work under raised bucket.

Lower bucket to ground.

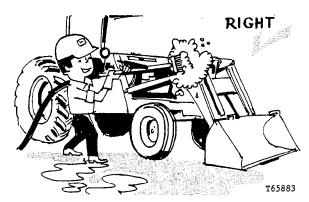
If the machine is on an incline, block it securely.

Use hoisting equipment for lifting heavy parts.

TAKE CARE! WATCH OUT FOR OTHER PEOPLE IN THE VICINITY

Wear safety glasses when drilling, grinding, or hammering metal.

SERVICING PRECAUTIONS



Keep ALL equipment free of dirt and oil.

Be sure to clean any oil, grease, mud, ice, or snow from floor of operator's compartment and stepping points.

When preparing the engine for storage, remember that inhibitor is volatile and therefore dangerous. Seal and tape openings after adding the inhibitor. Keep container tightly closed when not in use.

Don't remove the radiator cap until coolant temperature is below the boiling point. Then loosen cap slowly to the stop to relieve pressure before removing.

Periodically check exhaust system for excessive leakage.

Relieve hydraulic pressure before working on hydraulic system: shut off engine, lower bucket to ground, and move control levers and steering wheel until no response is felt.

When checking hydraulic pressure, be sure to use the correct test gauge.

PRECAUTIONS DURING REPAIR

Before working on hydraulic system relieve hydraulic pressure.

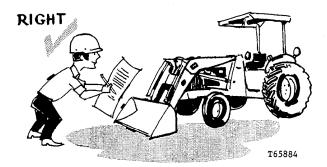
Before repairing the electrical system, or performing a major overhaul, disconnect batteries.

KNOW EQUIPMENT IS READY!

Check guards, canopies, safety guards — all protective devices installed on the unit. Every one should be in place and secure.

CHECK IT OUT!

- □ GUARDS
- □ CANOPIES
- ☐ SHIELDS
- □ PROTECTIVE DEVICES
- □ ROLL-OVER PROTECTIVE STRUCTURES
- ☐ SEAT BELTS, ETC.



Carefully inspect equipment for visual defects—leaks in fuel, lubrication, and hydraulic systems. Do not search for pressurized fluid leaks with your hands. Use cardboard or wood to search for leaks.

Section 10 **GENERAL**

CONTENTS OF THIS SECTION

Page	Page
GROUP 5 - SPECIFICATIONS	GROUP 15 - LUBRICATION
General Machine Specifications 5-1	Oils and Greases
GROUP 10 - PREDELIVERY, DELIVERY, AND	
AFTER-SALE SERVICES	
Temporary Machine Storage 10-1	
Predelivery Service	
Delivery Service	
After-Sale Inspection	

Group 5 **GENERAL MACHINE SPECIFICATIONS**

(Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with ICED and SAE Standards. Except where otherwise noted, these specifications are based on a unit equipped with 14.9-24, 6 ply rating rear tires; 7.50/8.00-16, 6 ply rating front tires; 3/4 cu. yd. (0.57 m³) bucket; and standard equipment.)

Power (@ 2,500	engine rpm):	
	SAE	DIN
Gross	66 hp (49.2 kW*)	
Net	62 hp (46.2 kW)	65.9 PS
with fan, air clean fuel pump, alterna is without fan. Fly standard conditio perature and DIN	eel power is for an engler, water pump, lubrical ator, and muffler. Gross wheel power ratings a ins of 500 ft. altitude a 1 70 020 standard conder (sea level) and 20°C	iting oil pump, engine power re under SAE and 85°F tem- ditions of 760
*In the Internation	onal System of Units (watts (kW).	(SI), power is
Engine; John De 4-stroke cycle	ere, 4-cylinder diesel, v	/alve-in-head,
Bore and stroke		4.02x4.33 in. 102x110 mm)
Piston displacem	ent	
Compression rati Maximum torque	o @ 1,300 rpm	16.2 to 1

NACC or AMA (U.S. Tax) horsepower
Lubrication Pressure system with full flow filter
Cooling Pressurized with thermostat and
fixed bypass
Fan Suction
Air cleaner Dry
Electrical system 12 volt with alternator
Battery (12 volt) reserve capacity 110 minutes
Engine Clutch Foot-operated, single 11 in.
(279 mm; plate without reverser, 10 in. (254 mm) plate
with reverser.

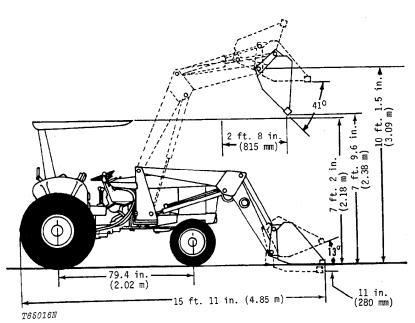
Transmission...Constant mesh, 8 forward speeds, 4 reverse with helical gears and sliding collars; mechanical shuttle. Optional hydraulic direction reverser provides 8 speeds forward and 8 reverse; hydraulic wet clutches, no clutching required.

Gear		Travel S	peeds:		
		m	ph	km	/h
		Fwd.	Rev.	Fwd.	Rev.
	1	1.3	1.6	2.1	2.6
	2	1.9	2.2	3.1	3.5
	3	2.9	3.3	4.7	5.3
	4	4.0	4.7	6.4	7.6
	5	5.3	6.3	8.5	10.1
	6	7.6	9.0	12.2	14.5
	7	11.2	13.5	18.0	21.7
	8	15.7	18.7	25.3	30.1

Specifications

Final Drive	s	Inboard, planetary	Dimensions:	
Brakes Hydraulically-actuated, fully enclosed wetdisk. Self-equalizing. Foot-operated individually or simultaneously.		Height to top of hood		
Steering		Manual	Overall length 15 ft.	11 in. (4.85 m)
Loader clea (brake ap	ius (brake applied) 1 rance circle, dia. plied)	ift. 6 in. (10.85 m)	Overall length w/3-point hitch	9.4 in. (2.02 m) 5 in. (430 mm)
Hydraulic S	System: Closed-center		Ground clearance, min	1 111. (279 11111)
	re		Capacities: U.S	
	trol		Cooling system 3	
-	ston, constant pressure		Fuel tank).5 gal. 73.8
ment, 13 gp	om (49 L/min) @ 2500	engine rpm	Engine lubrication, including	at 5.7
Hydraulic			filter6 Transmission-hydraulic	qt. 5.7
Cylinders:	Bore	Stroke	system) gal. 37.9
•	2.25 in. (57 mm)		oyele	3
	2.25 in. (57 mm) 2		Additional Standard Equipment:	
Cylinder roc	ժsGr	•	Oil pressure indicator light	
		ne-plated, polished	Alternator charge indicator light	
	der rods 1		Coolant temperature gauge	
Bucket cylin	nder rods 1.2	25 in. (32 mm) dia.	Key switch safety start Cushioned seat	
Tires:	Front	Rear	Vertical muffler with rain cap	
Turf	27-9.50-15,	18.4-16A,	Transistorized voltage regulator	
	6 ply rating,	6 ply rating, R3	Fenders	
	I1 Terra-tires		Anti-freeze	
	27-9.50-15,		Two-position disk rear wheels	
	10 ply rating,		3/4 cu. yd. (0.57 m³) loader bucket	
	I1 Terra-tires		Air cleaner restriction indicator	
Utility	11L-15,	14.9-24,	Cold weather starting aid	
Othicy	8 ply rating, F3	6 ply rating, R4	Rear PTO (continuous "live" or independent 540 rpm)	
	7.50/8.00-16,	14.9-24,	Speed hour meter	
	6 ply rating F3	6 ply rating, R1	Horn	
		16.9-24,	,,,,,,	
		6 ply rating, R3	SAE Operating Weight 6280) lb. (2 849 kg)
		17.5L-24,		
		8 ply rating, R4		
Front Axle	Swe	pt-back, adjustable	•	
Wheel Tree	ads (dependent on tire	ee and front aviely		
	49 to 74 i	·		
	48 to 76 i			

DIMENSIONS



Special Equipment

Batteries (2) reserve capacity: 220 minutes

Cigar lighter

Deluxe seat

Differential lock

Fixed front axle

Foot throttle

Front grille guard

Fuel gauge

Hydraulic direction reverser

Lights

Mid PTO (1,000 rpm "live," w/rear PTO)

Muffler extension (vertical muffler)

Parking brake

Power steering

Rear muffler

Remote hydraulic cylinder

ROPS and seat belt, w/ or w/o canopy

Single or dual remote-cylinder control w/quick-connect couplers

Swinging drawbar

3-inch seat belt

3-point hitch (Category 1 or 2 w/sway blocks and

regular or short links)

Tool box

LOADER SPECIFICATIONS

Nominal Heaped

Capacity

3/4 cu. yd. (0.57 m³) 73.8 in. (1.58 m)

Buckets:

Operating information:
Breakout force 4000 lb. (17.92 kN) (1814 kg)
Lifting capacity, full height 2500 lb. (1134 kg)
Raising time to full height 5.1 sec.
Bucket dump time 2.9 sec.
Lowering time (power) 3.0 sec.
Rollback time
Float-down time
Minimum recommended rear

Group 10 PREDELIVERY, DELIVERY, AND AFTER-SALE SERVICES

TEMPORARY UNIT STORAGE

After receiving your unit from the factory and before putting the machine into temporary storage, perform the following checks and services.

For long term storage (over 30 days) information, consult your JD401-B operator's manual.

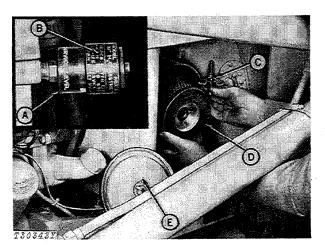
- 1. Check battery electrolyte level and charge the battery, if necessary.
- 2. Check engine coolant level. Maintain midway between the radiator core and filler neck.
 - Fill the fuel tank.
- 4. Check crankcase oil level. Oil must be between marks on dipstick after machine has been shut down for 10 minutes.
- 5. Relieve hydraulic pressure by stopping engine, lowering bucket and operating control levers and steering wheel until system fails to respond.
- 6. Reduce shipping pressure of all tires to the inflation pressure listed on page 10-10-2.

PREDELIVERY SERVICE

Because of the shipping factors involved, plus extra finishing touches that are necessary to promote customer satisfaction, proper predelivery service is of prime importance to the dealer and the customer.

Use the following list when preparing a unit for delivery to the customer.

1. Air Cleaner



A-Restriction Indicator

B--Red Signal C-Wing Nut

D-Element E-Cover

Fig. 1-Air Cleaner

Check air filter restriction indicator (A). If red signal can be fully seen, remove element (D) and clean. Install a new element if necessary.

Element checked

No

2. Radiator

Check engine coolant level.

CAUTION: Do not remove radiator filler cap unless the engine is cool. Then loosen the cap slowly to the stop to relieve pressure before removing the cap.

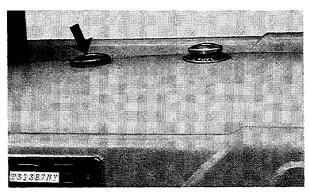


Fig. 2-Radiator Filler Cap

Maintain coolant level midway between the radiator core and the filler neck. If needed add clean soft water for warm weather, or a solution of 50% clean water and 50% ethylene glycol (permanent type antifreeze with approved rust inhibitor) for cold weather.

Check cooling system for loose connections and leaks.

Coolant level checked

Yes No

3. Tire Pressure

Check tire pressure with an accurate gauge having 1 psi (0.07 bar) graduations.

Inflate tires according to the chart below.

4. Battery

Check battery electrolyte level. If distilled water is not available, use clean soft water. Avoid use of hard water. Remove foreign material from top of battery and coat terminals with petroleum jelly. Check vent holes in battery caps.

IMPORTANT: Never add water to battery in freezing weather unless engine will be run 2 or 3 hours.

Punch date code on battery.

Battery checked

Yes No

FRONT TIRE INFLATION

Inflation Pressure

Tire Size	Туре	PR	With Towed or Rear-Mounted Equipment	With Light Front-Mounted Equipment	With Heavy Front-Mounted Equipment
7.50/8.00-16	F-3	6	28 psi (1.9 bar)	32 psi (2.2 bar)	36 psi (2.5 bar)
27x9.50-15	I-1	6	35 psi (2.4 bar)	40 psi (2.8 bar)	Do not use
27x9.50-15	I-1	10 .	55 psi (3.8 bar)	60 psi (4.1 bar)	65 psi (4.5 bar)
11L-15	F-3	8	40 psi (2.8 bar)	40 psi (2.8 bar)	40 psi (2.8 bar)

REAR TIRE INFLATION

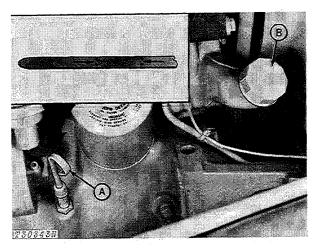
Inflation Pressure

Tire Size	PR	With Little Ballast or No Rear-Mounted Equipment	With Moderate Ballast or Light Rear-Mounted Equipment	With Maximum Ballast or Heavy Rear-Mounted Equipment
14.9-24	6	14 psi (1.0 bar)	16 psi (1.1 bar)	18 psi (1.2 bar)
16.9-24	6	18 psi (1.2 bar)	20 psi (1.4 bar)	22 psi (1.5 bar)
17.5L-24	8	24 psi (1.7 bar)	24 psi (1.7 bar)	24 psi (1.7 bar)
18.4-16A	6	14 psi (1.0 bar)	14 psi (1.0 bar)	Do not use

No

Tire pressure checked

5. Crankcase Oil Level



A-Dipstick

B-Oil Filler Cap

Fig. 3-Crankcase Oil Level

Check crankcase oil level with machine on level ground. (Allow a minimum of 10 minutes for the oil to drain down before checking.) If oil level is at or below bottom mark on dipstick, add oil specified on page 10-15-1 to bring oil level to between marks on dipstick. Do not operate engine with oil level below the bottom mark.

Crankcase oil level checked Oil added Yes No qts. (L)

6. Transmission Oil Level

Check transmission-hydraulic oil level.

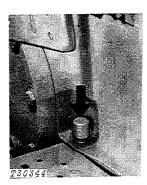


Fig. 4-Transmission-Hydraulic System Dipstick Resting On Top Threads

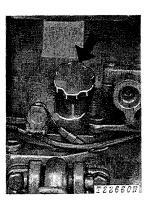


Fig. 5-Transmission-Hydraulic System Filler Cap

Run engine two to three minutes to fill oil circuits. Check oil level with machine on level ground, engine running at slow idle, rockshaft and any equipment lowered, reverser lever (if equipped) locked in neutral, parking brake engaged (if equipped), range shift lever in park, and clutch engaged. Remove dipstick and wipe off oil. Insert dipstick with cap resting on threads of tube (not screwed in place). If oil level is down to bottom mark on dipstick, add oil. Remove filler cap on rockshaft housing and add oil specified on page 10-15-1 to bring oil level to top mark on dipstick.

Oil level checked Oil added Yes No qts. (L)

7. Fuel Tank

Fill fuel tank with correct fuel. Check action of fuel gauge.

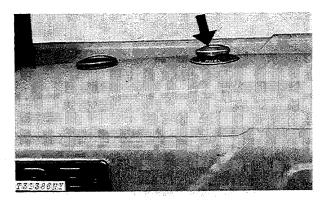


Fig. 6-Fuel Tank Filler Cap

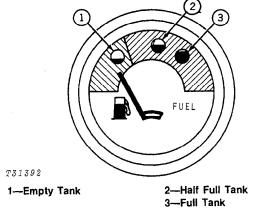


Fig. 7-Fuel Gauge

Fuel tank filled Fuel gauge checked Yes Yes No

No

8. Grease Fittings

All grease fittings were lubricated and checked before the unit left the factory. However, to insure customer satisfaction, check each fitting shown. Lubricate, if necessary, with John Deere Multi-Purpose Grease or an equivalent.

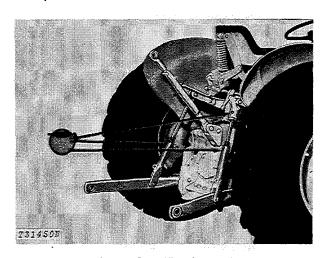


Fig. 8-3-Point Hitch (3 points)

Lubrication required

Yes No

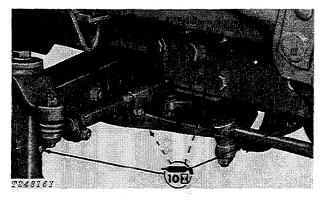


Fig. 9-Front Axle Pivot Points (4 points)

Lubrication required

No

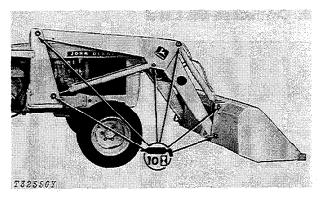


Fig. 10-Loader Pivot Points (12 points)

Lubrication required

No

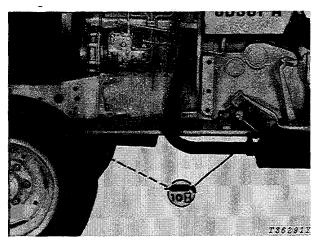


Fig. 11-Drag Links (2 points)

Lubrication required

Yes

No

10

10-5

9. Air Intake Hoses

Check clamps on hoses connecting air cleaner and engine. Tighten hose clamps where necessary. Inspect hoses for cracks.

Intake hoses checked

Yes

10. Alternator - Fan Belt Tension

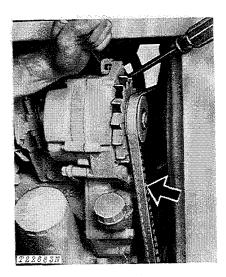


Fig. 12-Alternator - Fan Belt Tension

Check alternator-fan belt tension. Loosen the alternator bracket and adjusting cap screws. Apply outward force to the FRONT alternator frame until 20 lb. (9 kg) force on the belt midway between the pulleys will deflect the belt 3/4 inch (19 mm). If a tension gauge is used, strand tension must be 90 lb. (41 kg).

IMPORTANT: Do not pry on the rear of the alternator housing.

Belt tension checked

Yes No

11. Engine Speeds

Check engine speeds.

Slow idle - 825 rpm

Fast idle - 2650 rpm hand throttle

2800 rpm foot throttle

If adjustment is needed, see page 10-10-18.

Engine speeds checked

No

12. Fuel Filter

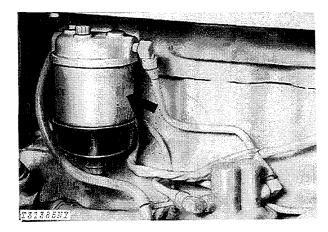


Fig. 13-Fuel Filter

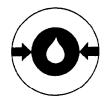
Check fuel filter for sediment. Drain if necessary.

Fuel filter checked

Yes No

13. Indicator Lights and Gauges

Check operation of indicator lights.



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Fig. 14-Engine Oil Pressure Indicator Light

If light glows red when engine is running, stop engine immediately and determine cause.

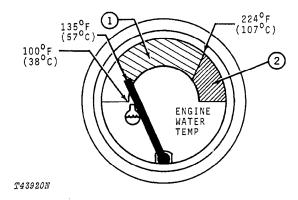


T22737

Fig. 15-Alternator Indicator Light

Light glows red when alternator is not charging. When light goes on with engine running, stop engine and determine cause.

Check operation of the engine coolant temperature gauge.



1—Operating Range

2-Overheat Range

Fig. 16-Coolant Temperature Gauge

If the indicator hand goes into the red-orange zone, stop the engine. Check the cooling system.

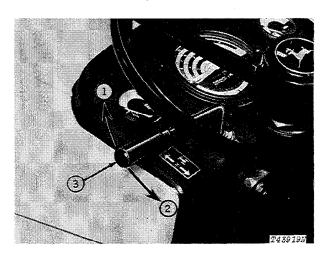
NOTE: Fuel gauge is on page 10-10-3.

Indicator lights and gauges checked

Yes No

14. Reverser

Check the reverser operation.



1-Forward

2-Reverse

3-Neutral

Fig. 17-Reverser Lever

The reverser unit allows the operator to change the direction of travel "on the go" without declutching or shifting gears.

Note and correct any reverser malfunctions.

See page 10-10-20 for reverser speed-of shift adjustment.

Reverser checked

Yes No

15. Differential Lock

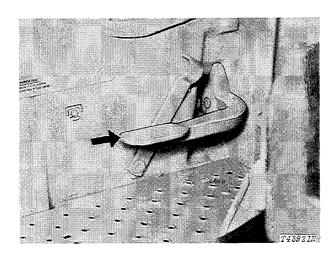


Fig. 18-Differential Lock Pedal

Check the differential lock operation.

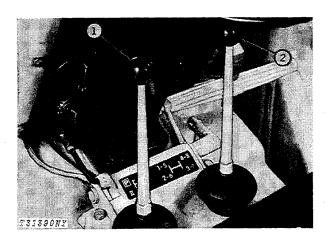
While driving straight ahead, push down the differential lock pedal. Hold the pedal down. Turn the steering wheel slightly. There will be steering resistance if the differential lock is working correctly.

The differential lock will automatically disengage when the pedal is released if traction for both rear wheels is equal. Unequal traction will keep the lock engaged.

Differential lock checked

Yes N

16. Transmission Shifting



1-Range Shift Lever

2-Gear Shift Lever

Fig. 19-Transmission

Check the operation of the unit in all ranges and gears.

Correct any malfunctions.

Transmission shifting checked

Yes N

17. Brakes

Check operation of brakes.

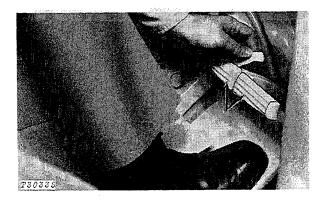


Fig. 20-Hydraulic Brakes

To stop the machine, push down both brake pedals. The machine must not pull to one side when stopping.

Turn to the left (L.H.). Push down the left (L.H.) brake pedal as you turn. Turn to the right (R.H.). Push down the right (R.H.) pedal as you turn.

The operator must feel the braking action pulling the machine to the left (L.H.) or right (R.H.). Brake action must be the same for both brakes.

Hydraulic brakes checked

Yes No

18. Clutch Pedal Free Travel

Without Reverser (with continuous PTO)

Check the free travel of the clutch pedal. Free travel (1, Fig. 21) must be 1/2 in. (13 mm) to 1 in. (25 mm).

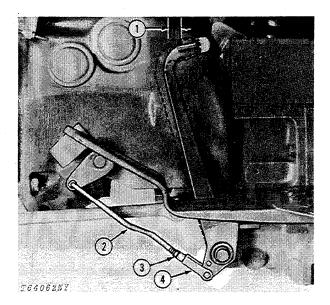
IMPORTANT: Do not operate the machine when the free travel of the clutch pedal is less than 1/2 inch (13 mm).

See page 10-10-22 for adjustment of free travel.

Without Reverser (with no PTO or with independent PTO)

Push the clutch pedal down until the clutch fingers contact the throwout bearing. Measure the distance from the pedal arm to where the pedal arm contacts the pedal stop. This distance must be 5 in. (127 mm).

If adjustment is needed, see page 10-10-22.



1—Specified Free Travel 2—Clutch Rod

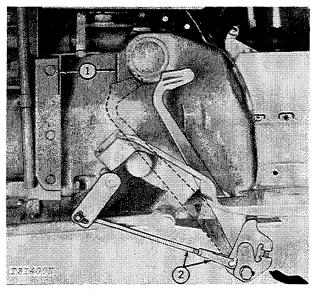
3—Jam Nut 4—Yoke

Fig. 21-Clutch Pedal Free Travel (Without Reverser)

With Reverser

Check the free travel of the clutch pedal. Push the pedal down to the bottom of the first stage detent. In this position the throwout bearing will be against the clutch fingers. The top right (R.H.) edge of the rear of the pad of the clutch pedal must be 5-1/4 in. (133 mm) to 5-3/4 in. (146 mm) from the front of the bolting flange of the clutch housing. See 1, Fig. 22.

If free travel is more than 5-3/4 in. (146 mm), see page 10-10-22 for adjustment.



1—5-1/4 inches (133 mm) to 5-3/4 (146 mm) 2—Pedal Adjusting Rod and Yoke

Fig. 22-Clutch Pedal Free Travel (With Reverser)

Free travel checked

Yes No

19. Engine Crankcase Vent Tube

Remove the vent tube. Clean it with diesel fuel. Install the vent tube. Be sure the packing fits correctly in the tappet cover.

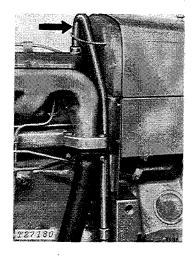


Fig. 23-Crankcase Vent Tube

Vent tube cleaned

Yes

Thank you very much for your reading. Please Click Here. Then Get COMPLETE MANUAL. NO WAITING



NOTE:

If there is no response to click on the link above, please download the PDF document first and then click on it.

20. Seat

Check the operation of the seat.

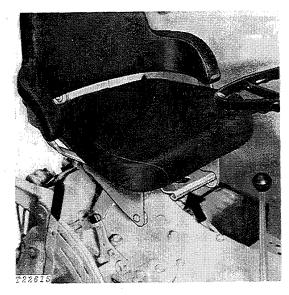
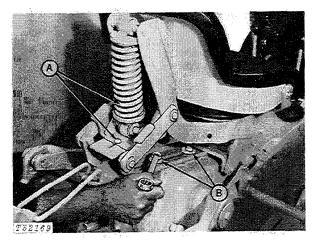


Fig. 24-Seat Release Latch (Deluxe Seat)

To move the seat to the upper rear position for standing, lift the release latch (Fig. 24). Stand. Lift the seat to the upper rear position.

To move the seat back to normal position, pull the seat forward. The seat will automatically go back to normal position when you sit.



A-Weight Adjustment

B-Height Adjustment

Fig. 25-Seat Adjustments

To change the adjustment for the height of the seat, loosen the cap screws (B, Fig. 25). Slide the seat to the desired position. Tighten the cap screws thoroughly.

To change the adjustment for the weight of the operator, move the seat to the upper rear position. Loosen the wing nuts under the support for the shock absorber. Slide the support to the desired position. Tighten the wing nuts.

Seat operation checked

Yes No

21. Power Steering

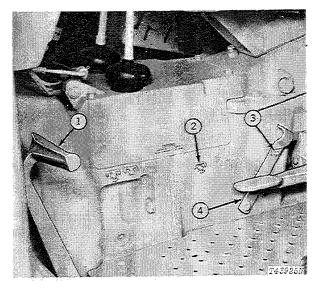
Check the operation of the power steering. The steering wheel must turn freely in both directions without seizure or too much play.

Power steering checked

Yes No

22. Power Take-Off

Check power take-off operation.



1—PTO Clutch 2—On 3—Off 4—PTO Lever

Fig. 26-PTO Operation

IMPORTANT: Disengage PTO clutch at pedal before shifting PTO selector lever. PTO lever must be in fully engaged or "ON" position to avoid excessive spline wear.

Continuous-Running PTO

To engage the PTO, completely depress the clutch pedal (momentarily wait for machine motion to stop). Move the PTO selector lever to the "ON" position. Slowly engage the clutch pedal.

To disengage the PTO, completely depress the clutch pedal. Shift the selector lever to the "OFF" position.

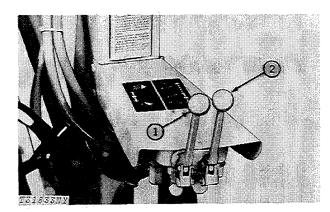
IMPORTANT: Always disconnect rear PTO stub shafts when not in use.

PTO operation checked

No

23. Loader Control Levers

Check the operation of the loader control levers.



1-Bucket Control Lever

2-Boom Control Lever

Fig. 27-Loader Control Levers



CAUTION: Reduce boom lift speed when raising loaded bucket to full height.

Boom Lever

Push the lever forward to lower the boom. Pull the lever rearward to raise the boom.

If the lever is released during normal loader operation, it will return to neutral. The boom will be held in the position reached at that time.

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

Bucket Lever

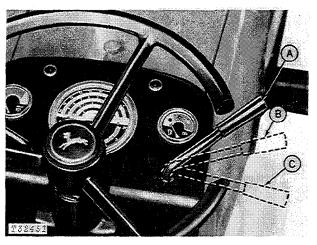
Push the lever forward to dump the bucket. Pull the lever rearward to retract the bucket.

If the lever is released, it will return to neutral. The bucket will be held in the position reached at that time.

Loader control levers checked

24. Hand Throttle

Check operation of hand throttle.



-Slow idle B-PTO Speed

C-Fast Idle

Fig. 28-Hand Throttle

Hand throttle checked

No

25. Lights

Check the operation of the lights.

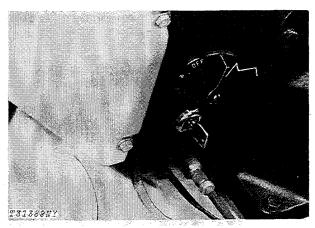


Fig. 29-Light Switch

Position	Headlights	Warning Lamps	Rear Combination Light
OFF	Off	Off	Off
W		On	
F	Dim		White
Н	Bright	On	Red
H2	Dim	On	Red

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NOTE: If customer desires, wire the lights to turn on when the key switch is off. Remove the purple wire from the "BAT" terminal. Install the unused red wire coming from the circuit breaker. Tape the end of the purple wire.

All lights checked

Yes

26. Parking Brake

Check the operation of the parking brake.

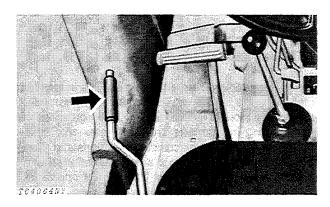


Fig. 30-Parking Brake

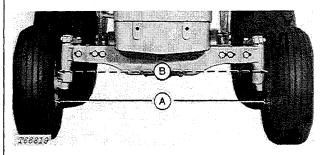
- 1. To engage, pull up.
- 2. To disengage, press button and push lever down. If adjustment is needed, see page 10-10-25.

Parking brake checked

Yes No

27. Toe-In.

Check the front wheel toe-in.



—Distance Between Front of Rims

-Distance Between Rear of Rims

Fig. 31-Checking Toe-In

1. Use down pressure of loader bucket to raise front wheels. Turn wheels so each valve stem is at bottom of tire.

- 2. Lower wheels to ground.
- 3. Measure from ground to hub.
- 4. Mark this distance on inside of each rim at the bead of tire front (A) and rear (B).
- 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

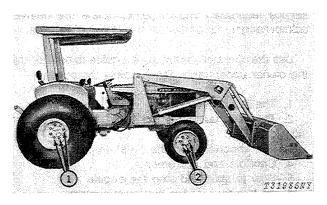
If adjustment is needed, see page 10-10-27.

Toe-in checked

No

28. Wheel Retainers

Check the torque of the wheel retainers.



1-Rear Wheel Retainer

2-Front Wheel Retainer

Fig. 32-Wheel Retainers

Tighten front and rear wheel retainers to 100 lb-ft (14 kg-m).

Wheel retainers checked

No

29. Accessible Hardware Torque Values

Check all accessible bolts and nuts for correct tightness. If any bolts or nuts are loose, tighten them to the correct torque. See the torque chart on page 10-10-28.

Accessible hardware checked

Yes No

30. Final Check

The final predelivery procedure is the overall cleanup of the unit. Make the unit LOOK like a new machine with the proper touch-up of chipped paint and a good wash job. Deliver to the customer a tractor anyone would be proud to own.