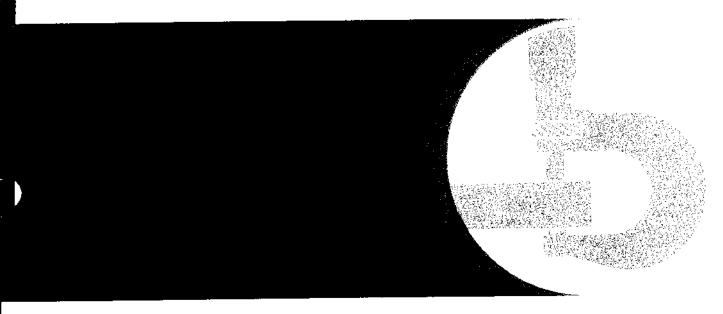
### John Deere JD570 and JD570A Motor Grader





## **TECHNICAL MANUAL**

#### JD570 AND JD570-A MOTOR GRADERS

**Technical Manual** TM-1001 (Dec-87)

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The specifications and design information contained in this manual were correct at the time it was printed. 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.

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OOA

#### 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 personnel.



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 technical manual:

- · Table of contents at front of manual
- · Exploded views showing parts relationship
- Photos showing service techniques
- · Specifications grouped for easy reference

Using the technical manual as a guide will reduce error and costly delay. It will also assure you the best in finished service work.

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

# Section 10 GENERAL

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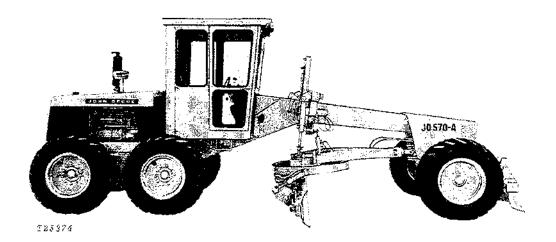


Fig. 1-JD570-A Motor Grader

## Group 5 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 13.00-24, 8-ply-rating, tubeless tires and standard equipment.)

J	DO1	U-M

Power (a 2300 engine rpm):	SAE	DIN
Gross	.92 hp (68.6 kW*)	
Net		86.2 PS

Net engine flywheel power is for an engine equipped with fan, air cleaner water pump, lubricating oil pump, fuel pump, alternator and muffler. The gross engine power is without fan. Flywheel power ratings are under SAE standard conditions of 500-ft. altitude and 85°F. temperature, and DIN 70 020 conditions (non-corrected). No derating is required up to 10,000 feet (3000 m) altitude.

\*In the international system of units (SI), power is expressed in kilowatts (kW).

Engine: John Deere turbocharged diesel, vertical 6-cylinder, valve-in-head, 4-stroke cycle

Transmission... Power Shift, 8 forward and 4 reverse selections

Differential Lock....... Foot-operated, hydraulically actuated

Travel Speeds (2300 engine rpm, no tire slip):

Shift Lever Position	mph	km/h
Forward 1	2.0	3.3
2	2.9	4.6
3	4.5	7.2
4	5.8	9.4
5	7.6	12.2
6	9.8	15.8
7	12.8	20.6
8	21.6	34.8
Reverse 1	2.5	4.0
2	3.5	5.6
3	5.5	8.8
4	7.1	11.4
Reverse 1 2 3	2.5 3.5 5.5	4.0 5.6 8.8

Final Drives Inboard planeta	ary
Brakes: Service Foot-operated, hydraulically actuated, wet-diseffective on 4 tandem wheels Parking Hand-operated, mechanical, expanding dry shoeffective on 4 tandem wheels	
Steering: Front	eg. m)
Hydraulic System: Closed-center Pressure	n²) 600
Circle: 5.50x1x4.62x1 in. (140x25x117x25 mm) welded angle, 4 ft in. (1.37 m) dia.         Rotation	eg. ear
wall, w/universal swivel	,
Blade:         Standard         Optional           Length         .12 ft. (3.66 m)         12 ft. (3.66 m)           Height         .22 in. (559 mm)         22 in. (559 mm)           Thickness         .0.62 in. (15.8 mm)         0.75 in. (19.1 mm)	n)
Blade Lifting Mechanism:  Control	ulic oke
Blade Range:         Lift above ground       1 ft. 1 in. (330 m)         Blade side-shift:       2 ft. 2.75 in. (679 m)         Left       2 ft. 7.25 in. (794 m)         Shoulder reach outside wheels:	nm) nm)
Right.       5 ft. 11.5 in. (1.82         Left.       6 ft. 5.25 in. (1.96         Pitch       32 deg. to	m)

JD570-A
Saddle: Rotation
Frame: Tapered box
Section size, max
Weight per ft. max
Tandems: Welded steel box section 1 ft. 9.75 in. (552 mm)x6.5 in.
(165 mm)
Drive
Axle dia. at bearings
Front Axle: Fabricated steel A-frame with cast alloy-steel spindles, tapered roller bearings
Diameter at bearing seats 2.62 in. (67 mm) 2.06 in. (52 mm)
Total oscillation
Wheel lean (either direction)
Rear Drive Axle: Full floating with tapered roller bearings
Diameter at bearings 3.28 in. (83 mm)
Scarifler (Special Equipment): V-type for 46 in. (1.17 m) cut with 3 manual pitch positions
Number of teeth 5 standard, 9 optional
Lift above ground
Penetration 8.75 in. (222 mm)
Maximum pressure—down 7000 lb. (31.37 kN) (3175 kg)
up 20,000 lb. (89.64 kN) (9072 kg)
Shank size

Bulldozer (Special Equipm Angles 22 deg. left or right by an Length	rticulating machi	ne. 93 in. (2 23.5 in. (59 27 in. (68	2.36 m) 17 mm) 16 mm)
Capacitles:	U.S.	lmp	Liters
Fuel tank	•	41.7 gal.	189.3
Cooling system		4.7 gal.	21.2
Engine lubrication, including filte		2.5 gal.	11.4
Engine lubrication, without filter	. , , . , . 10 qt.	2.1 gal.	9.5
Transmission and hydraulic systematic	em 21 gal.	17.5 gal.	79.5
Tandem housings (each)		4.2 gal.	18.9
Worm gearbox	1.5 qt.	1.3 qt.	1.4
Additional Standard Equipmer Transistorized voltage regulator Lights Turn signals Electric hour meter Cigar lighter Horn Deluxe seat Transmission bottom guard		perature 1 temperature 1 temperature 1 tarting aid 1 seat belt 1 wiper	

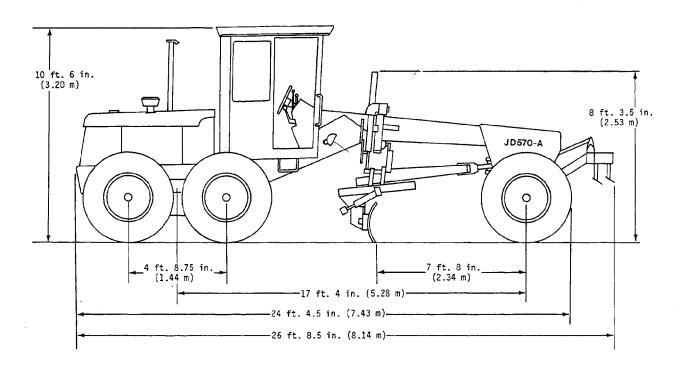
Special Equipment:

Scarifier
Cab defroster fan
Floor mat
ROPS canopy and seat belt
2 ft. (610 mm) moldboard
extensions, right or left
Disconnect clutch

12 ft. (3.66 m) heavy-duty blade Engine side shields Overlay end bits Bulldozer Wheel weights for 24 in. (610 mm) tires Heavy-duty cutting edges Automatic blade control

#### Specifications

#### JD570-A MOTOR GRADER DIMENSIONS



T62257N

Tires .... 13.00-24, 8-ply-rating; 15.5-25, 8-ply-rating; 13.00-24, 10-ply-rating

#### **DIMENSIONS:**

Tire	Whe	ei Tread	Wi	dth	Ground Clearanc
Size	Front	Rear	Front	Rear	(Front Axie)
13.00-24	78.75 in.	81.125 in.	7 ft. 10.75 in.	7 ft. 10.25 in.	1 ft. 11.5 in.
	(2.00 m)	(2.06 m)	(2.41 m)	(2.39 m)	(597 mm)
15.5-25	81.375 in.	83.75 in.	8 ft. 3.75 in.	8 ft. 3.25 in.	1 ft. 10.9 in.
	(2.07 m)	(2.13 m)	(2.53 m)	(2.52 m)	(582 mm)

IMPORTANT: Rear axle weight must not exceed 16,700 lb (7575 kg). If equipped with ripper or snow wing, do not add full liquid ballast. Maximum allowable rear end weight could be exceeded with full ballast.

SAE Operating Weight	On Front Wheels	On Rear Wheels	Totai
Standard equipment	5705 lb.	14.320 lb.	20.025 lb.
standard equipment	(2608 kg)	(6495 kg)	(9083 kg)
and scarifier	6755 lb.	14,148 lb.	20,903 lb.
Standard equipment and	(3063 kg)	(6418 kg)	(9481 kg)
wheel weights	5705 lb.	14,920 lb.	20,625 16.
Standard equipment, scarifier,	(2608 kg)	(6768 kg)	(9355 kg)
and wheel weights	6755 lb.	14,748 lb.	21,503 lb.
	(3063 kg)	(6690 kg)	(9753 kg)

(Unit Equipped w/13.00 - 24, 8-ply Rating Tubeless Tires)

#### JD570

HORSEPOWER (at 2300 rpm)  Net engine flywheel at 500 ft.  altitude and 85 deg. F. temperature83	ParkingHand-operated mechanical ex- panding dry-shoe type, effective on 4 tandem wheels
ENGINE	CIRCLE
NACC or AMA taxable horsepower35.9	Diameter
Cycle 4	Worm Gear
No. of Cylinders	Rotation
Bore and Stroke3.86 in. × 4.33 in.	BLADE RANGE
Piston Displacement	Lift above Ground
Electric System	Blade Side Shift Right26.75 in.
	Left
TRANSMISSION	Shoulder Reach, Outside Wheels
Description Power Shift Transmission	Right
Lock-Unlock Differential	Left
GROUND SPEEDS	Bank Cutting Angle (Right and Left)90 deg.
1st 2.04 mph	Pitch
2nd 2.88 mph	BLADE LIFTING MECHANISM
3rd 4.49 mph	Saddle (Hydraulically
4th 5.81 mph	Actuated) 5 position - 22.5 deg.
5th 7.42 mph	Increment Rotations
6th	Total Rotation Right
7th	or Left 45 deg. Cylinders 3 in. bore $\times$ 42 in. stroke
1st Rev	Cylinders
2nd Rev	BLADE ASSEMBLY
3rd Rev 5.24 mph	Length10 ft. or 12 ft.
4th Rev 6.77 mph	Height22 in.
OTES DIVID	Thicknessstandard 0.62 in.
STEERING	heavy-duty 0.75 in.
Type FrontFull Hydraulic Power Steering	AVI E EDONT
Rear	AXLE FRONT Front Wheel Lean20 deg. left and right
Frame Steering	Steering Range51 deg. left and right
Turning Radius	Ground Clearance
	with 10.00-24 Tires
BRAKES	(Early Units)21.75 in.
Service Foot-operated, hydraulic-ac- tuated, wet-disk type, effec-	with 13.00-24 Tires
tive on 4 tandem wheels	with 15.50-25 Tires
tive on a tangent wheels	Oscillation
	HYDRAULIC SYSTEM
	TypeClosed center
	PumpVariable displacement piston type

JD570	SCARIFIER
	Weight (without Teeth) 652 lbs.
CAPACITIES	(with Teeth) 878 lbs.
Fuel Tank 50 gal.	No. of Teeth
Cooling System 22.4 quarts	Lift Above Ground
Crankcase (with Filter) 10 quarts	Penetration 8-3/4 in.
Transmission (with Filters)	Pitch Positions 3
(Includes Hydraulic System) 21 gal.	Controls Hydraulic
Tandem Housings (Each) 5 gal.	Max. Force. 7,000 lbs. Down-20,000 lbs. Up
Worm Gear Box 1.5 quarts	Width of Cut 50 in.
	Shank Size 1 in. × 3 in.
	Type "V"

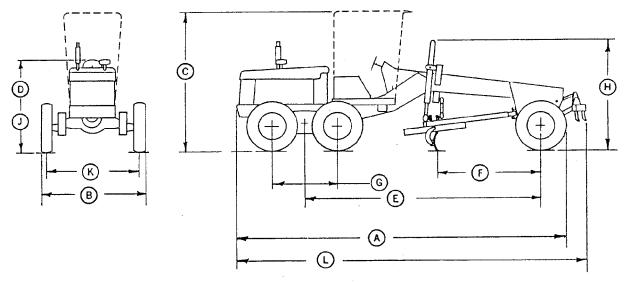


Fig. 2- JD570 Dimensions Specifications

Over-All Dimensions Incl	hes Over-All Dimensions Inche	26
A. Length		
B. Width (13.00-24 tires) 7 ft. 10.75 (15.50-25 tires) 8 ft. 3.75		
C. Height (with Cab) 10 ft. 6	in. K. Tread (Front) 13.00-24 tires) 6 ft. 6.75 in	n.
D. Height (without Cab - To Top of Steering Wheel) 7 ft. 5	(Front) (15.50-25 tires) 6 ft. 9.12 ir in. (Rear) (13.00-24 tires) 6 ft. 9.12 ir	
E. Wheelbase	in. (Rear) (15.50-25 tires) 6 ft. 11.75 in	
F. Bladebase 7 ft. 8	in. L. Length with Scarifier (In Up  Position)	n.

#### 10 5-7

#### JD570

WEIGHT	On Rear Wheels
Operating - Total	(standard equipment
(standard equipment	without cab) 13120 lbs.
without cab) 18625 lbs.	(with cab) 14220 lbs.
(standard equipment	(standard equipment
with cab)	and scarifier) 14048 lbs.
(standard equipment	
and scarifier) 20803 lbs.	
On Front Wheels	
(standard equipment	
without cab) 5505 lbs.	
(with cab) 5705 lbs.	
(standard equipment	
and scarifier) 6755 lbs.	

(Specifications and design are subject to change without notice. Wherever applicable, specifications are in accordance with ICED and SAE Standards.)

10

5-8

## 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 JD570-A operator's manual.

- 1. Check battery electrolyte level and charge the battery, if necessary.
- 2. Check coolant level: Maintain 4 inches below the top of the filler neck.
  - 3. Fill the fuel tank.
- Check crankcase oil level. Oil should be between marks on dipstick after machine has been shut down for 10 minutes.
- 5. Relieve hydraulic pressure by stopping engine, lowering blade and operating control levers until system fails to respond.
- 6. Reduce shipping pressure of all tires to inflation pressure shown on page 10-10-9.
  - 7. Cover unit for protection and cleanliness.

#### 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.

If adjustments are required, procedures are found in the after-sale section.

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

#### 1. Pre-Cleaner



Fig. 1-Pre-Cleaner

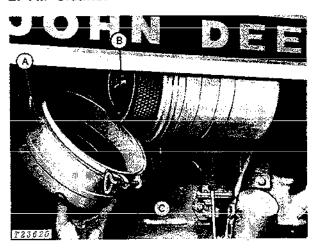
Check pre-cleaner bowl. Clean if necessary.

Pre-cleaner checked

Yes

No

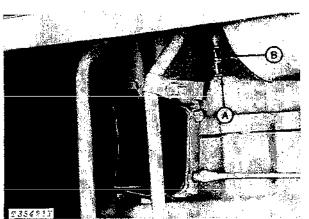
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-Dust Cap B-Wing Nut

C-Primary Element

Fig. 2-Air Cleaner



A-Reset Button

B-Red Signal

Fig. 3-Restriction Indicator

Check air cleaner restriction indicator. If indicator shows red, check elements. If only primary element is dirty, clean the element. If safety element is dirty, replace both elements.

Air cleaner checked Elements replaced

Yes No Yes No

#### 3. Fuel Filter

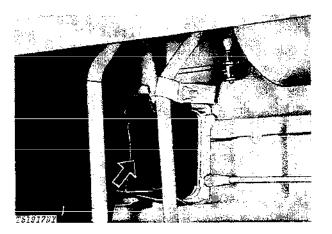


Fig. 4-Fuel Filter

Check fuel filter for sediment. Drain if necessary.

To bleed fuel system, see page 10-10-21.

Sediment present in filter

Yes

No

#### 4. Batteries

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.

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

Check battery connections.

Punch date code on battery.

Battery connections checked Water added

Yes No Yes No

#### 5. Fuel Tank

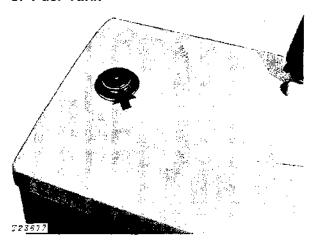


Fig. 5-Fuel Tank Filler Cap

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



Fig. 6-Fuel Gauge

Fuel tank filled Yes No Fuel gauge checked Yes No

#### 6. Fuel Tank Sump

IMPORTANT: Sediment will settle over extended periods of transport or storage.

Open fuel tank drain cock. Drain liquid for several seconds. Close drain cock.

NOTE: Fuel tank sump drain is located on the bottom of the fuel tank.

Fuel sump drained

Yes No

#### 7. Radiator

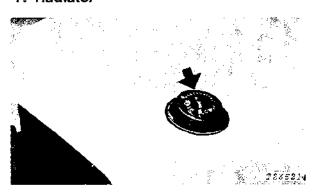


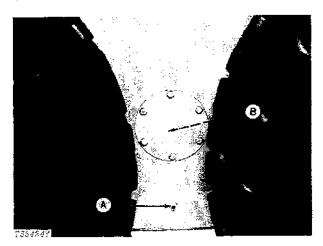
Fig. 7-Radiator Filler Cap

CAUTION: Remove radiator filler cap only when coolant temperature is below boiling point. Then loosen cap slightly to the stop to relieve pressure before removing the cap completely.

Check coolant level. Maintain 4 inches below the top of the filler neck. Add permanent-type antifreeze if cold weather is expected.

Radiator coolant level checked Yes No Coolant or antifreeze added Yes No

#### 8. Tandem Drives



A-Oil Level Plug

B-Main Drive Sprocket Retainer

Fig. 8-Tandem Drives



Fig. 9-Tandem Drive Inspection Plate

Park grader on level surface. Remove inspection plate from each tandem. Make sure oil reservoirs in front and rear outboard hubs are full.

Remove oil level plug from each tandem. Oil should be level with plug hole.

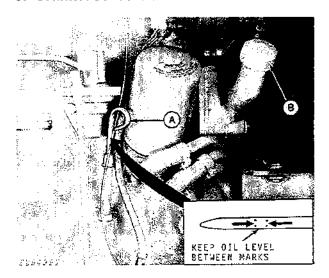
If oil is needed, use John Deere HY-GARD® Oil or equivalent.

Install inspection plate and plug.

Tandem oil level checked

No

#### 9. Crankcase Oil Level



A-Crankcase Dipstick

B-Crankcase Filler Cap

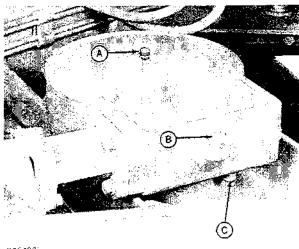
Fig. 10-Crankcase Oil Level

Check crankcase oil level with machine on level ground and engine off. If oil level is at or below bottom mark on dipstick, add oil specified on page 10-20-2 to bring oil level to between marks on dipstick. Do not operate engine with oil level below the bottom mark.

NOTE: There is a 3-1/2 quart difference between the bottom mark and the top mark on the dipstick.

Crankcase oil level checked	Yes No
Oil added, if any	qts.

#### 10. Circle Drive Gear Box



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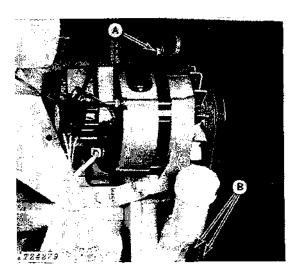
A—Vent B—Oil Level and Filler Plug C—Drain Plug

Fig. 11-Circle Drive Gear Box

With the blade resting on level ground, check the circle drive gear box oil level by removing the oil level plug. Oil should be level with the plug hole. If necessary, add John Deere SCL oil or equivalent. (See page 10-20-2.) Replace filler plug.

Circle drive gear box oil level checked Oil added Yes No

#### 11. Alternator - Fan Beits



A-Adjusting Cap Screw

B-Alternator-Fan Belts

Fig. 12-Alternator - Fan Belts

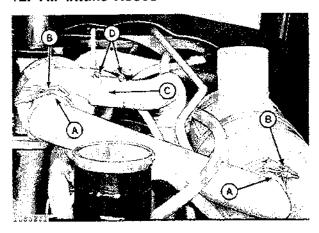
Alternator-fan belt should deflect 3/4-inch when 20 pounds of force is applied to the belt midway between the two pulleys. Check front belt only. If a belt gauge is used, tighten new alternator belt to 100 pounds strand tension. After 3 minutes of operation, tension should be 90 pounds minimum.

IMPORTANT: Do not pry on the rear alternator housing as this may damage the alternator.

Alternator-fan belt tension

\_\_\_\_fbs. strand tension \_\_\_\_inch deflection

#### 12. Air Intake Hoses



A—Air Intake Hose
B—Air Intake Hose Clamps

C—Turbocharger inlet Hose D—Turbocharger inlet Hose Clamps

Fig. 13-Air Intake Hoses and Clamps

Check hoses (A) for cracks. Tighten clamps (B). Also check turbocharger inlet hose (C) and clamps (D).

Air intake hoses checked

Yes

No

### 13. Transmission-Hydraulic System Oil Level

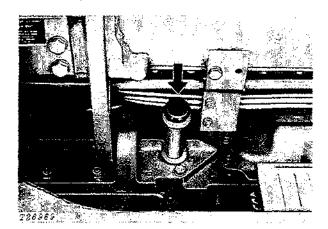


Fig. 14-Transmission-Hydraulic System Filler Cap and Dipstick

Be sure dipstick has been fully inserted before checking oil level. Do not start engine, unless oil is near top mark on dipstick. If oil level is low, add John Deere HY-GARD Oil or equivalent. Replace dipstick.

If the engine has been running and the transmission oil is warm, allow 10 minutes for oil to drain down before checking.

NOTE: Overfilling of the transmission-hydraulic system may cause overhealing during extended 8th gear transport.

Transmission-hydraulic oil level checked Transmission-hydraulic oil added Yes No

#### 14. Engine Speeds

Warm up engine and attach a tachometer in the hour meter drive plug hole to check engine speeds.

No-load, fast idle speed should be 2450  $\pm$  50 rpm. Slow idle should be 900  $\pm$  25 rpm.

If engine speeds need adjustment, see page 10-10-25.

Engine speeds checked

Yes No

#### 15. Parking Brake

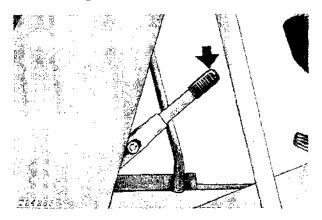


Fig. 15-Parking Brake Lever

Check parking brake adjustment.

A lifting force of 75 lbs (minimum) is required to set the parking brake lever. Check with spring scale attached to adjustment knob on end of parking brake lever.

If adjustment is required, see page 10-10-26.

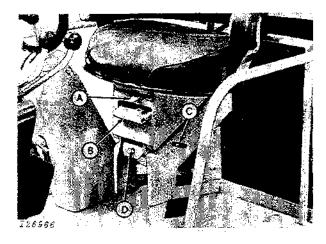
Parking brake operational

No.

,...

#### Seat Operation

Check operation of seat.



A—Seat Position Selector Lever B—Seat Release Latch C—Indicator

D—Weight Adjusting

Screw

Fig. 16-Seat Operation

Move seat to upper rear position. Then sit down and move seat position selector lever (A) left or right until you reach desired position. Seat will always return to this position when you sit down after you have moved seat up and to rear for standing.

10

10-7

To move seat up and back, stand up and lift seatrelease latch (B). Seat will move automatically to upper rear position. Sit down to return seat to normal preset operating position.

If seat does not move fully to the rear when unlatched, adjust counterbalance spring as follows:

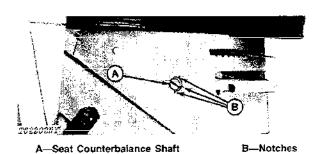


Fig. 17-Seat Counterbalance Shaft

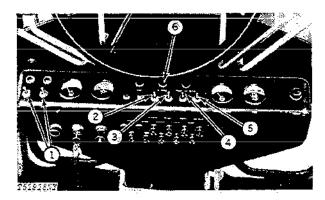
Move the seat to the upper rear position. Insert a screwdriver in the slot in the counterbalance shaft, push in to unlatch the shaft, and turn the shaft counterclockwise. Align the latch in the end of the shaft with the notches in the side of the seat support and pull the screwdriver outward to latch the shaft.

Seat operation checked

No

#### 17. Light Operation

Check operation of lights and switches,



- 1-Direction Signal Switches
- 2-Beacon Light Switch
- -Panel Light Switch
- -Work Light Switch
- 5-Drive Light Switch
- 6-Hi-Beam Indicator Light

Fig. 18-Light Switches

Push all switches forward to turn lights on. Pull switches rearward to turn lights off.

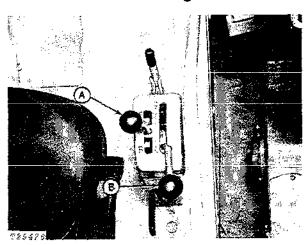
Turn signal switches (1) must be turned off after a turn. Turn both switches on for emergency flashers.

Dimmer switch on left floor panel controls high beam indicator light.

Lights and switches checked

Yes No

#### 18. Transmission Shifting



A-Forward-Reverse Lever

8-Transmission Shift Lever

Fig. 19-Transmission Controls

Check operation of motor grader in all gears.

To move grader forward, release parking brake, push forward-reverse lever into forward position, and move transmission shift lever to desired gear. Shift one gear at a time.

Use the forward-reverse lever to change the direction of travel "on the go" without declutching or shifting gears.

Transmission checked

Yes No

#### 19. Reverser Operation

Check operation of forward-reverse lever.

NOTE: Parking brake must be released before forward-reverse lever can be shifted out of neutral.

To reverse grader, pull forward-reverse lever rearward to reverse position. With transmission shift lever in 5th gear or higher, forward-reverse lever cannot be put in reverse position.

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