

**KEEP IN EPD
HAS COLOR & F.O.**

**Technical
Manual**

**John Deere
770A, 770AH,
772A, AND 772AH
Motor Graders**

TM-1361
Formerly TM-1187



Litho in U.S.A.



10

770A, 770AH, 772A, AND 772AH MOTOR GRADERS TECHNICAL MANUAL TM-1361 (May-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. Wherever applicable, specifications and design information are in accordance with SAE and ICED standards.

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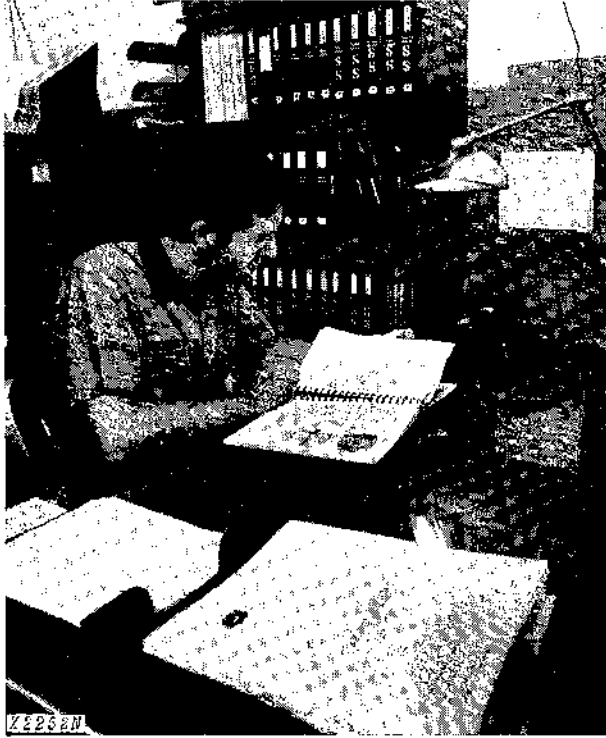
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Group II INTRODUCTION AND SAFETY INFORMATION

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 failure and their causes. FOS Manuals are for training new personnel and for reference by experienced service 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 technical manual.

•Technical Manuals—for actual service

Technical Manuals are concise service guides for *specific* machines. 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 written for you—an experienced service technician. Keep it in a permanent binder in the shop where it is handy. Read it when you need to know correct service procedures or specifications.


Some features of this manual:

- Inside front cover - "Table of Contents".
- Section I - General specifications and services.
- Sections 1 through 46 - Removal, repair, testing (components removed), installation, and adjustment.
- Section 90 - Detailed explanation of system operation, diagnosis, visual inspection, testing, and adjustments.
- Specifications are listed and illustrated at the end of each section.

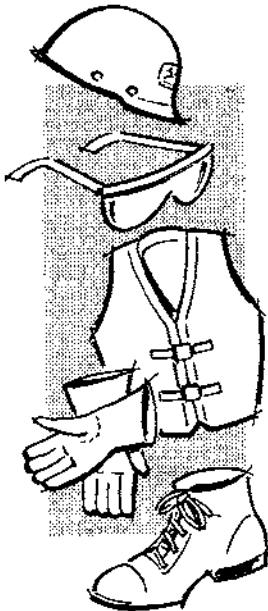
MAINTENANCE WITHOUT ACCIDENT WORK SAFELY



T27509N

 This safety alert symbol identifies important safety messages in this manual and on the motor grader. 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!



T27501N

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

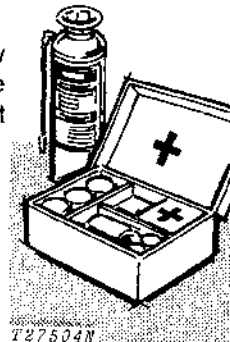
For instance, you may need: Hard hat, safety shoes, safety goggles, heavy gloves, reflector vests, ear protectors, respirators.



T27502N

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.



T27504N

Maintenance Area

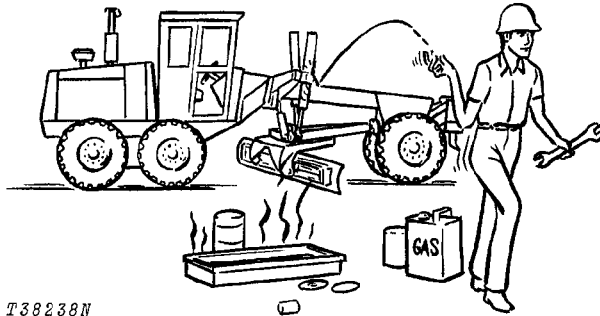
Make sure the maintenance area is adequately vented.

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!



T38238N

Do not smoke while putting fuel in the fuel tank.

Do not smoke while working with material that will start on fire easily.

Stop the engine before filling the fuel tank.

If the engine is hot, use care when putting fuel in the fuel tank.

Do not use gasoline or diesel fuel for cleaning parts. Use solvents that will not start on fire.

Battery Gas Is Highly Flammable!

When charging batteries, be sure there is enough ventilation.



T27506N

Do not check the battery charge by putting metal objects across the posts.

Do not let sparks or open flame near batteries.

Do not smoke near battery.

Flame Is Not a Flashlight!

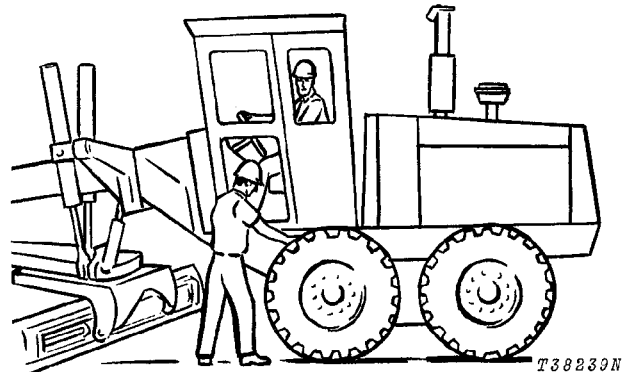
NEVER USE OPEN FLAME AROUND THE MACHINE.

KNOW WHERE FIRE EXTINGUISHERS ARE KEPT!

UNDER ALL MAINTENANCE CONDITIONS -

Do not work on the equipment unless you are approved to do so. Then be sure you know the safe and correct procedure.

Never work on equipment while it is being operated.



T38239N

When the engine is running, avoid working on equipment.

If you must work on the machine with the engine running, ALWAYS USE TWO service technicians. One must be at the controls. The other must be within sight of the operator.

TAKE CARE! WATCH OUT FOR OTHER PEOPLE IN THE AREA.

KEEP HANDS AWAY FROM MOVING PARTS.

Put a support under all raised equipment.

Never work under a raised blade, ripper, or scarifier.

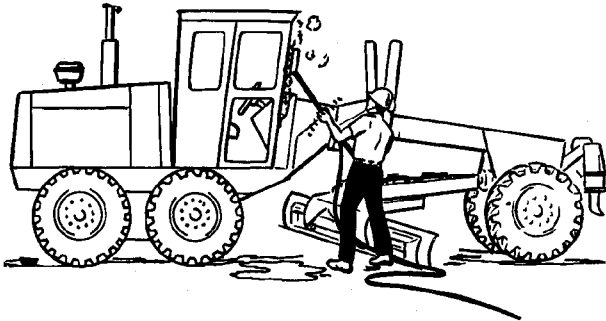
Lower all equipment to the ground.

If the machine is on a slope, use blocks to hold it in place.

Do not lift heavy parts by yourself. Use hoisting equipment for this.

When drilling, grinding, or hammering metal, wear safety glasses.

BE CAREFUL DURING SERVICE AND REPAIR



T38242N

T38242N

Keep ALL equipment free of dirt and oil.

Clean oil, grease, mud, ice or snow from the operator's station, steps and hand rails.

When getting the engine ready for storage, remember that inhibitor changes easily into gas and is dangerous. After adding the inhibitor, seal and tape openings. When you are not using the inhibitor, keep the can tightly closed.

Do not remove the radiator cap unless you can hold your hand on the radiator tank. First, loosen the cap slowly to the stop. Then release all pressure in the cooling system before removing the cap.

Check the exhaust system regularly for leaks.

Release hydraulic pressure before working on the hydraulic system. Stop the engine. Lower all equipment to the ground. Move the control levers until the equipment does not move.

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

Before working on the fuel system, close the fuel shut-off valve.

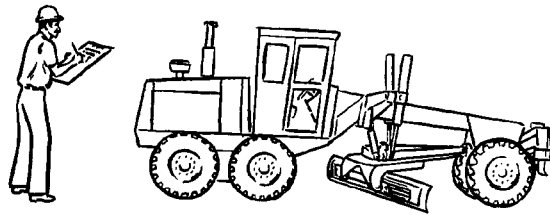
Before working on the electrical system, or making a major overhaul, disconnect the batteries.

KNOW EQUIPMENT IS READY!

Check all guards, shields, and safety bars. Every one must be in place and tight.

CHECK IT OUT!

- GUARDS
- SHIELDS
- SAFETY BARS
- ROLL-OVER PROTECTIVE STRUCTURES
- SEAT BELTS, ETC.



T38243N

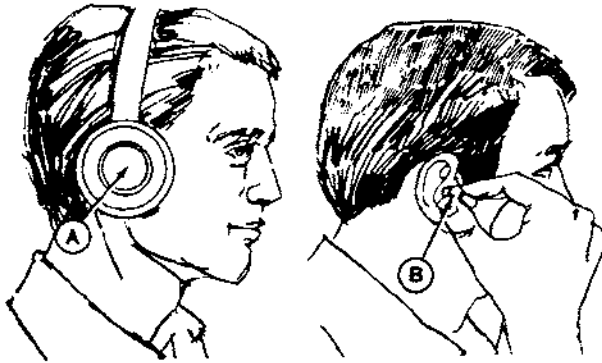
T38243N



X9811

Escaping fluid under pressure can penetrate the skin causing serious injury. Relieve pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure. Keep hands and body away from pinholes and nozzles which eject fluids under high pressure. Use a piece of cardboard or paper to search for leaks. Do not use your hand.

If ANY fluid is injected into the skin, it must be surgically removed within a few hours by a doctor familiar with this type injury or gangrene may result.



X766Z

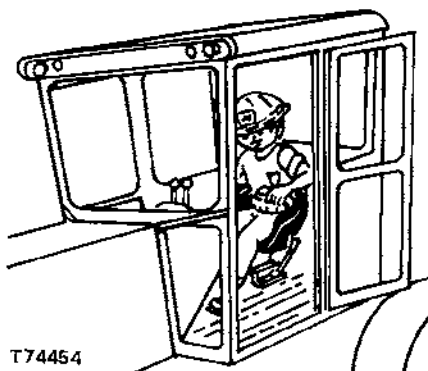
Prolonged exposure to loud noise can cause impairment or loss of hearing. Wear a suitable hearing protective device such as earmuffs (A) or earplugs (B) to protect against objectionable or uncomfortable loud noise.

Avoid possible injury or death from machinery runaway.

Do not start engine by shorting across starter terminals. Machine will start in gear and will move if normal circuitry is bypassed.

NEVER start engine while standing on ground. Start engine only from operator's seat, with transmission in neutral, direction selector lever in neutral, and park brake applied.

If your machine is equipped with a starting fluid starting aid, remember starting fluid is highly flammable. DO NOT incinerate or puncture a starting fluid container. DO NOT store a starting fluid container in a high-temperature area.



T74454

T74454

If your grader has a roll-over protective structure, USE A SEAT BELT.

If your grader does not have a roll-over protective structure, DO NOT USE A SEAT BELT.

Be sure you understand a service procedure before you work on the machine.

Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

Do not run the engine while you work on the machine unless the procedure is approved.

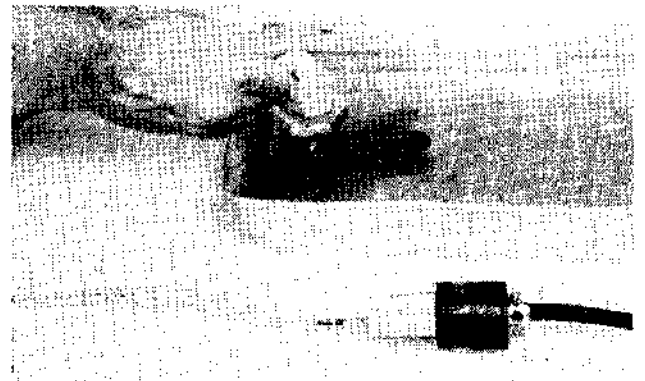
If it is necessary to make checks with the engine running, ALWAYS USE TWO PEOPLE—with the operator at the controls, able to see the person doing the checking.

KEEP HANDS AWAY FROM MOVING PARTS.

Put a support under all raised equipment.

Do not work under raised equipment. Lower equipment to the ground or onto blocks.

Clean the machine regularly. Remove all grease and dirt from handholds and steps.

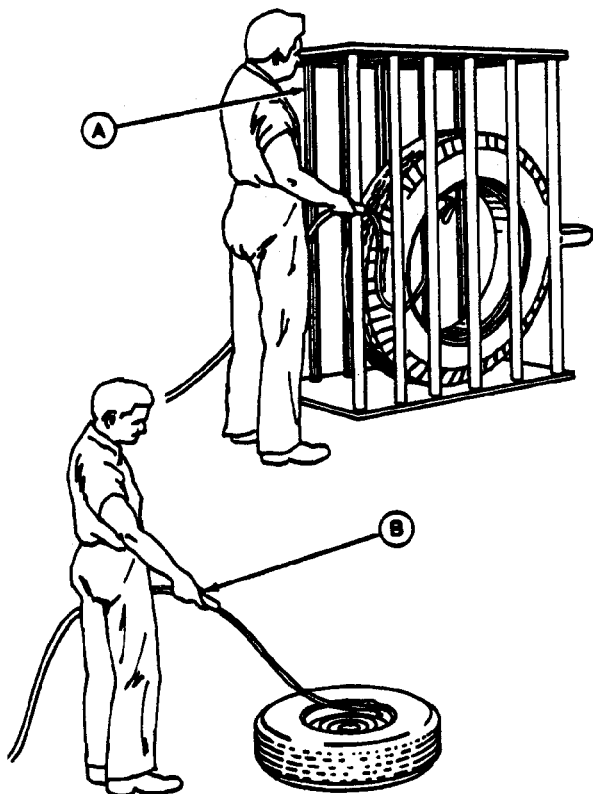


T67093

Test coolant heater in liquid only.

Use a heavy-duty grounded cord to connect coolant heater to electrical power.

Do not plug into electrical power unless heating element is immersed in coolant. Sheath could burst and result in personal injury.



Failure to follow proper procedures when mounting a tire on a wheel or rim can produce an explosion which may result in serious injury or death. Do not attempt to mount a tire unless you have the proper equipment and experience to perform the job. Have it done by your John Deere dealer or a qualified tire repair service.

Detailed tire mounting instructions, including necessary safety precautions, are contained in John Deere Fundamentals of Service (FOS) Manual 55, Tires and Tracks, available through your John Deere dealer. Such information is also available from the Rubber Manufacturers Association and from tire manufacturers.

- A—Use a Safety Cage if Available.
- B—DO NOT Stand Over Tire. Use a Clip-On Chuck and Extension Hose.

TS0123

Group III GENERAL 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, 12 ply rating, tubeless tires with 8 in. rim, 12 ft. (3.65 m) moldboard with 6 in. (152.4 mm) cutting edge, and standard equipment. Weights include lubricants, coolants, full fuel tank and 175 lb. (79 kg) operator.)

Power

(at 2200 engine rpm):	SAE	DIN
Gross	160 hp (119 kW)	
Net	150 hp (112 kW)	112 kW

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 ft. (3050 m) altitude.

Engine: John Deere turbocharged and intercooled diesel, vertical 6-cylinder, valve-in-head, 4-stroke cycle
 Bore and stroke 4.56x4.75 in. (116x121 mm)
 Piston displacement 466 cu. in. (7.638 L)
 Compression ratio 14.9 to 1
 Maximum torque @ 1,300 rpm ... 465 lb-ft (630 Nm)
 (64 kg-m)

NACC or AMA (U.S. Tax) horsepower 49.9
 Main bearings 7
 Lubrication Pressure system w/full-flow filter
 Cooling ... Pressurized w/thermostat and fixed bypass
 Fan Suction
 Air cleaner w/restriction indicator Dry
 Electrical system 24 volt w/alternator
 Batteries (2) Reserve capacity: 360 minutes
 Alternator 42 amps

Transmission ... Direct drive full Power Shift with planetary gear reductions. Foot inching pedal.

Travel Speeds

(2200 engine rpm, no tire slip, 14.00-24 tires):

Shift Lever Position	Forward		Reverse	
	mph	km/h	mph	km/h
1	2.3	3.7	3.0	4.8
2	3.3	5.3	4.2	6.8
3	5.2	8.9	6.6	10.6
4	6.7	10.8	8.6	13.8
5	8.8	14.2		
6	11.5	18.5		
7	14.6	23.5		
8	25.1	40.4		

Differential Lock Foot-operated, hydraulically actuated

Front Drive: (JD772-A and 772-AH Only)

Hydrostatic front wheel drive is available in 2 forms. The standard speed HFWD operates in 1st thru 4th gears. The high speed HFWD operates in 1st thru 6th gears.

A hydrostatic motor is in each wheel controlled through a flow divider to provide optimum traction. Switch controlled for 2 two modes of operation.

Pump 5.43 cu. in. (89 cm³) variable displacement pump driving a 2.03 cu. in. (33 cm³) reversible motor in each wheel.

Rear Drive . . . Inboard planetary final drives with heat-treated, splined steel torque shafts. Oscillating welded construction tandems; nodular cast sprockets driving 2 in. (51 mm) pitch roller chain in oil bath.

Front Axle: Fabricated steel box-frame with steel spindles
 Total oscillation 30 deg.
 Wheel lean range (either direction) 20 deg.

Steering:

Front . . . Full hydraulic power system. Steering capabilities without engine power
 Rear . . . Hydraulically articulated frame steering (25 deg. left or right)
 Minimum turning radius (JD770-A) 22 ft. (6.7 m)
 Minimum turning radius 22 ft. 6 in. (6.86 m) (JD772-A)

Brakes:

Service . . . Foot-operated, hydraulically-actuated, wet-disk, effective on 4 tandem wheels
 Parking . . . Foot-operated, mechanical, dry-disk, effective on 4 tandem wheels

Hydraulic System: Closed-center

Pressure controlled variable- displacement pump, 4.0 cu-in. (65 cm³) 36 gpm (2.27 L/s), @ 2200 engine rpm

Blade:

Length 12 ft. (3.66 m)
 Height 24 in. (610 mm)
 Thickness 0.88 in. (22 mm)

Blade Range:

Lift above ground 1 ft. 5 in. (432 mm)
 Blade side shift:
 Right or left 2 ft. 2.9 in. (683 mm)
 Shoulder reach outside wheels:
 Right 7 ft. 8.5 in. (2.35 m)
 Left 7 ft. 8 in. (2.34 m)
 Pitch at ground line 44 deg. forward
 10 deg. back

Blade Lifting Mechanism:

Control Dual-lever, hydraulic

Lift Arms: Nodular cast

Positions 7
 Control Hydraulic, foot operated

Circle

Fabricated steel angle construction
 Circle diameter 5 ft. (1.5 m)
 Rotation 360 deg.
 Drive . . . Hydraulic motor and worm gear w/positive position lock
 Sideshift, right 32.0 in. (813 mm)
 left 33.5 in. (851 mm)

Drawbar . . .

Welded box section, 3.5x7x0.5 in. (89x178x13 mm) wall w/ball and socket draft connection

Frame:

Rear mainframe . . . Welded flanged box section from articulation joint to mainframe arch
 Width, minimum 12.03 in. (306 mm)
 Height, minimum 11.95 in. (304 mm)
 Thickness, sides 0.47 in. (12 mm)
 top and bottom (min.) 0.87 in. (22 mm)
 Weight per ft. (m), minimum 120 lb. (179 kg/m)
 Minimum vertical section modulus . 143 inches cubed (2 343 cm cubed)
 Front mainframe . . . Welded box section from mainframe arch to front hood
 Width 10 in. (254 mm)
 Height, minimum 13 in. (330 mm)
 Thickness, minimum 0.625 in. (16 mm)
 Weight per ft. (m), minimum 110 lb. (164 kg/m)
 Minimum vertical section modulus . 118 inches cubed (1 935 cm cubed)

Capacities

	U.S.	Liters
Fuel tank	70 gal.	265.0
Cooling system	10 gal.	38
Engine lubrication, (incl. filter)		
PIN 500604-508635	20 qt.	18.9
PIN 508636-	26 qt.	24.6
Transmission and hydraulic system (770-A, AH)	31 gal.	117.3
Transmission and hydraulic system (772-A, AH)	41 gal.	155.2
Tandem housings (each)	5 gal.	18.9
Circle drive gearbox	3 qt.	2.8

JD770-A

SAE Operating Weight	On Front Wheels	On Rear Wheels	Total
Standard equipment	8548 lb. (3877 kg)	21,726 lb. (9855 kg)	30,274 lb. (13 732 kg)
Standard equipment and scarifier	9905 lb. (4493 kg)	21,523 lb. (9763 kg)	31,428 lb. (14 256 kg)
Standard equipment, scarifier and ripper	9137 lb. (4145 kg)	24,765 lb. (11 233 kg)	33,902 lb. (15 378 kg)

JD772-A

SAE Operating Weight	On Front Wheels	On Rear Wheels	Total
Standard equipment	9237 lb. (4190 kg)	21,680 lb. (9834 kg)	30,917 lb. (14 024 kg)
Standard equipment and scarifier	10,594 lb. (4805 kg)	21,477 lb. (9742 kg)	32,071 lb. (14 547 kg)
Standard equipment, scarifier and ripper	9826 lb. (4457 kg)	24,719 lb. (11 213 kg)	34,545 lb. (15 670 kg)

Tires:

13.00-24, 12 ply rating; 8 in. rim
 14.00-24, 12 ply rating; 10 in. rim
 17.5-25, 12 ply rating; 14 in. rim

Dimensions:

Tire Size	Wheel Tread		Width		Ground Clearance (Front Axle)
	Front	Rear	Front	Rear	
13.00-24	76.60 in. (1.94 m)	79.61 in. (2.02 m)	7 ft. 10 in. (2.34 m)	7 ft. 10 in. (2.34 m)	1 ft. 10 in. (559 mm)
14.00-24	76.60 in. (1.94 m)	79.61 in. (2.02 m)	8 ft. (2.44 m)	8 ft. (2.44 m)	1 ft. 10.5 in. (571 mm)
17.5-25	79.36 in. (2.01 m)	82.37 in. (2.09 m)	8 ft. 6 in. (2.59 m)	8 ft. 6 in. (2.59 m)	1 ft. 11.2 in. (589 mm)

Height to top of steering wheel . . . 7 ft. 6 in. (2.29 m)

Scarifier (Special Equipment):

V-type for 4 ft. (1.22 m) cut with 3 manual pitch positions
 and hydraulic float
 Number of teeth (9 possible) 5
 Lift above ground 24.0 in. (610 mm)
 Penetration 13.7 in. (348 mm)
 Shank size 1x3 in. (25x76 mm)

Ripper (Special Equipment):

8 ft. (2.44 m) cut width,
 parallelogram linkage, 2 manual shank vertical positions
 Number of shank pockets 5
 Number of shanks 3
 Lift above ground 1 ft. 2.5 in. (368 mm)
 Penetration 1 ft. 2 in. (356 mm)
 Shank size 2x5 in. (51x127 mm)
 Lift above ground (shank in
 upper position) 1 ft. 11.5 in.
 (597 mm)