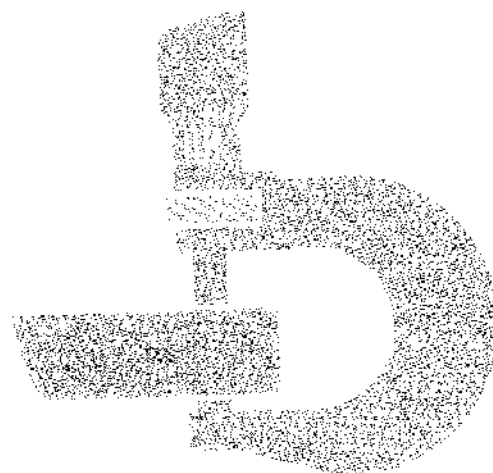


**John Deere
JD760 Series-A
Scraper**



TECHNICAL MANUAL

TM-1018
Litho in U.S.A. (T) Revised

JD760 SERIES-A SCRAPER

Technical Manual TM-1018 (Jan-74)

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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 IEMC standards.

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INTRODUCTION



Use FOS Manuals for Reference



Use Technical Manuals for Actual Service

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

- **FOS Manuals—**for reference
- **Technical Manuals—**for actual service

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

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 men and for reference by experienced men.

Technical Manuals are *concise* service guides for a *specific* machine. Technical Manuals are on-the-job guides containing only the vital information needed by a journeyman mechanic.



When a serviceman 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.

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*

This technical manual was planned and written for you—a journeyman mechanic. 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.

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.

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Section 10 GENERAL

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Group 5 SPECIFICATIONS

Horsepower (at 2200 rpm)
 Net engine flywheel (at 500 ft. altitude
 and 85°F. temperature) 152

Engine
 Type Diesel, 6-cylinder, in-line,
 valve-in-head 4 stroke-cycle
 Bore and stroke 4-3/4 in. x 5 in.
 Displacement 531 cu. in.
 Compression ratio 16.5 to 1
 Firing order 1-5-3-6-2-4

Fuel System
 Type Direct injection
 Injection pump Inlet metering
 distributor-type

Cooling System
 Type Pressurized with centrifugal pump
 Engine temperature control 2 thermostats

Engine Lubricating System Force feed,
 pressurized, with full flow oil filter

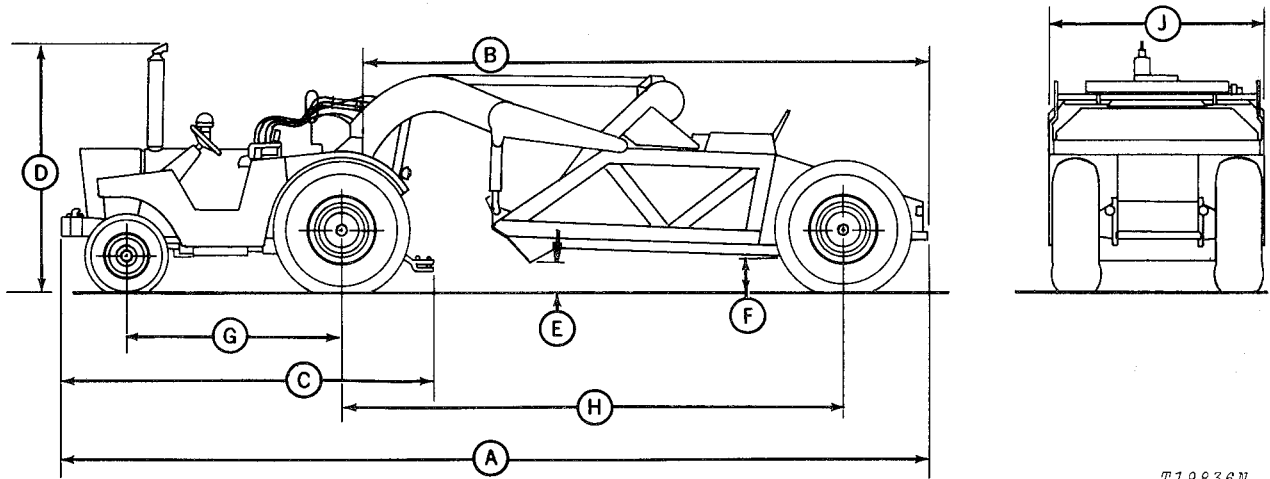
Electrical System
 Type 12-volt with 55 amp. alternator and
 transistorized regulator
 Batteries two 6-volt, group 7D, tractor type,
 connected in series

Hydraulic System
 Type Closed-center, constant pressure,
 includes power steering, power
 brakes, scarifier and scraper functions

Steering
 Type Full power, hydrostatic type,
 provision for manual operation

Service Brakes
 Tractor Foot operated, wet-disk type,
 hydraulically actuated
 Tractor Hand emergency, hydraulically
 actuated shoe type
 Scraper Hand-lever or foot-operated,
 hydraulically actuated shoe type

DIMENSIONS



T19836N

Fig. 1-JD760 Series-A Scraper Dimensions

	<u>Bowl Up</u>	<u>Bowl Down</u>
A. Overall Length	32 ft. 10-1/2 in.	33 ft. 7-1/2 in.
B. Scraper Length (to Swivel)	21 ft. 8-1/4 in.	22 ft. 3-1/4 in.
C. Overall Tractor Length	13 ft. 1-1/2 in.	13 ft. 1-1/2 in.
D. Overall Height	9 ft. 1-1/4 in.	9 ft. 1-1/4 in.
E. Blade Above Ground (Center Blade, Extended)	17-3/4 in.	.....
F. Clearance, Rear Frame - Minimum	16-1/4 in.	13-1/2 in.
G. Tractor Wheel Base	7 ft. 11-1/2 in.	7 ft. 11-1/2 in.
H. Scraper Wheel Base	18 ft. 7-1/8 in.	19 ft. 4-3/4 in.
J. Maximum Width	8 ft.	8 ft.

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SERIAL NUMBERS

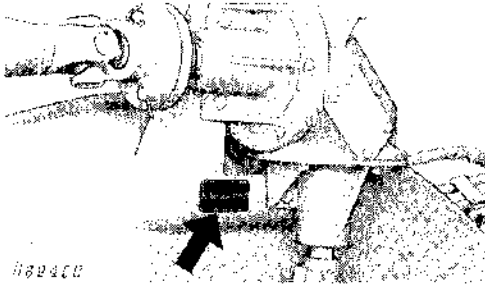


Fig. 2-Scraper Serial Number

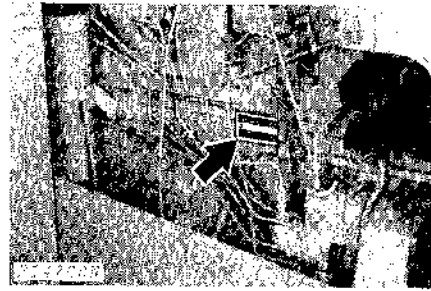


Fig. 4-Engine Serial Number (Early Units)

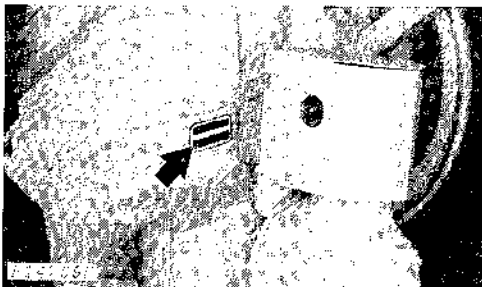


Fig. 3-Tractor Serial Number

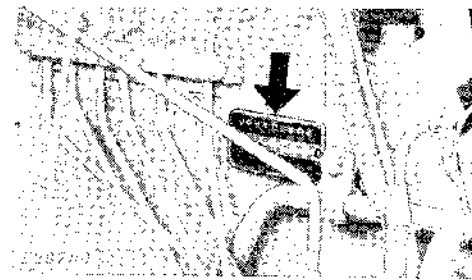


Fig. 5-Engine Serial Number (Later Units)

Group 10

PREDELIVERY, DELIVERY, AND AFTER-SALES SERVICES

PREDELIVERY SERVICE

Every new John Deere scraper leaves the factory so it can be delivered to the customer after a minimum of servicing.

Shipping factors, in addition to extra finishing touches needed for customer satisfaction, necessitate proper predelivery service on the part of the dealer.

A tag pointing out the factory-recommended procedure for predelivery service is attached to every new scraper before it leaves the factory.

After completing the factory-recommended checks and services listed on the predelivery tag, remove and file the tag with the job shop order. The tag and the customer's John Deere Delivery Receipt certify proper predelivery service when that section of his receipt is completed.

TEMPORARY MACHINE STORAGE

Service	Specifications	Reference
Check radiator for coolant loss and antifreeze protection.	Level with baffle in top of radiator.	.....
Relieve hydraulic pressure.	Stop engine, lower scraper bowl and scarifier and operate cylinders to relieve pressure.	.....
Reduce shipping pressure of tires.	.....	Operator's Manual

BEFORE DELIVERING MACHINE

<p>ELECTRICAL SYSTEM</p> <p>Check battery terminals to be sure they are tight.</p> <p>COOLING SYSTEM</p> <p>Inspect radiator for coolant loss.</p> <p>Check antifreeze protection.</p> <p>TIRES AND WHEELS</p> <p>Adjust pressure of tires.</p> <p>Check tractor front wheel hub bolts, rear tractor wheel rim nuts, rear tractor wheel retainer cap screws, and scraper rim nuts for tightness.</p>	<p>.....</p> <p>Level with baffle in top of radiator.</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>Tractor front hub bolts - 275 ft-lbs Rear tractor rim nuts - 400 ft-lbs Tractor wheel retainer cap screws - 300 ft-lbs Scraper rim nuts - 400 ft-lbs</p>	<p>Operator's Manual</p> <p>.....</p> <p>.....</p> <p>Operator's Manual</p> <p>.....</p>
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BEFORE DELIVERING MACHINE—Continued

Service	Specifications	Reference
LUBRICATION		
Check crankcase oil level.	To upper marks on dipstick.	Operator's Manual.
Check transmission-hydraulic system oil level.	To top of "SAFE" range on dipstick. Type 303 Special-Purpose Oil.	Operator's Manual
Check draft frame gearbox and elevator gearbox oil levels.	.....	Operator's Manual
Check hydraulic cylinder operations.	.....	Operator's Manual
Lubricate grease fittings.	John Deere Multi-Purpose lubricant or an equivalent.	Operator's Manual
ENGINE		
Check air cleaner.	.....	Operator's Manual
Fill fuel tank and start engine.	.....	Operator's Manual
Check operation of lights, gauges, and indicator lamps.	.....	Operator's Manual
Check engine idle speeds.	2400 rpm fast idle speed, 2200 load speed, 800 rpm slow idle speed.	.....
OPERATION		
Check engine disconnect clutch.	No tendency for tractor to creep when clutch is disengaged.	Operator's Manual
Shift transmission through all speeds.	.....	Operator's Manual
Check transmission disconnect clutch operation.	Clutch pedal free travel should be 2-1/4 inch average.	Operator's Manual
Check power-takeoff operation.	.....	Operator's Manual
Check differential lock operation.	.....	Operator's Manual

BEFORE DELIVERING MACHINE—Continued

Service	Specifications	Reference
Check steering, brakes, and hydraulic operations.	Operator's Manual
Check seat operation.	Operator's Manual
GENERAL		
Tighten accessible nuts and cap screws.	Operator's Manual
Clean scraper and touch up paint.
Install seat belts, if necessary.	Instructions with seat belts.

DELIVERY SERVICE

A thorough discussion of the operation and service of a new machine at the time of delivery helps to assure complete customer satisfaction. Proper delivery should be an important phase of a dealer's program. One section of the John Deere Delivery Receipt emphasizes the importance of proper delivery service.

Complaints may arise if the owner is not shown how to operate and service his new machine correctly. Devote enough time, at your customer's convenience, to introduce him to his new machine. Explain fully how to operate and service it.

The following procedure is recommended before the serviceman and owner complete the delivery acknowledgments section of the Delivery Receipt.

Using the operator's manual as a guide, make sure the owner thoroughly understands the following points:

1. Operation and use of controls and instruments.
2. Operation of the engine.
3. Importance of the break-in period.
4. Use of liquid or cast-iron ballast.
5. Operation and functions of the hydraulic system.
6. Operation and use of the PTO and drive.
7. Importance of safety.
8. Importance of lubrication and periodic services.

After explaining and demonstrating the above points, have the owner sign the Delivery Receipt and give him his operator's manual.

AFTER-SALES INSPECTION

The purchaser of a new John Deere machine is entitled to a free inspection at some mutually agreeable time within the warranty period after the equipment has been "run in." The terms of this after-sales inspection are outlined on the back of the customer's John Deere Delivery Receipt.

The purpose of this inspection is to ensure that the customer is receiving satisfactory performance from his machine. At the same time, the inspection should reveal whether or not the machine is being operated, lubricated, and serviced properly.

If the recommended after-sales service inspection is followed, the dealer can eliminate minor irregularities which can develop into major service problems at a later date. This will promote strong dealer-customer relations and give the dealer an opportunity to answer questions that may have arisen during the initial operation.

During the inspection service, the dealer has the opportunity to promote the sale of additional new equipment and accessories.

INSPECTION PROCEDURES

Service	Specifications	Reference
Check radiator coolant level.	Level with baffle in top of radiator.	.....
Clean external surface of radiator core.	.....	.....
Check hoses and connections for leaks.	.....	.....
FUEL SYSTEM		
Remove water and foreign matter from fuel pump and filter sediment bowls.	.....	Operator's Manual
Bleed fuel system.	.....	Operator's Manual
Tighten loose connections and check entire system for leaks. Correct if necessary.	.....	.....
Check air cleaner element and clean, if necessary.	.....	Operator's Manual
ELECTRICAL SYSTEM		
Check specific gravity and electrolyte level of batteries.	Full charge - 1.260 at 80°F.	.....
Check belt tension.	.....	Operator's Manual
Start engine and check action of starter, lights, and indicator lamps.	.....	Operator's Manual
LUBRICATION		
Check engine crankcase oil level.	To upper marks on dipstick.	Operator's Manual
Check transmission-hydraulic system oil level.	In "SAFE" range on dipstick. Use John Deere Type 303 Special-Purpose Oil.	Operator's Manual
Check draft frame gearbox and elevator gearbox oil levels.	.....	Operator's Manual
ENGINE		
Check valve clearance.	.....	Section 20, Group 5
Check engine speed under load, fuel consumption, and horsepower.	.....	.....

AFTER-SALES INSPECTION—Continued

Service	Specifications	Reference
CLUTCHES AND DIFFERENTIAL LOCK		
Check transmission disconnect clutch operation.	Clutch pedal free travel should be 2-1/4 inch average.	Operator's Manual
Check transmission inching pedal for smooth operation.	.....	Operator's Manual
Shift transmission through all speeds.	.....	.....
Check engine disconnect clutch.	No tendency for tractor to creep when clutch is disengaged.	Operator's Manual
Check PTO clutch, brake, and reversing operations.	.....	Operator's Manual
Check differential lock operation.	.....	Operator's Manual
HYDRAULIC SYSTEM		
Check hydraulic cylinder operations, fittings, and hose positions.	.....	Operator's Manual
Check power steering.	Smooth, easy operation.	.....
Check power brakes and accumulator.	With engine stopped, brakes must be solid and pedal travel should not exceed 3 inches for 20 applications.	Operator's Manual
SCRAPER		
Check scraper chain adjustment.	.....	Operator's Manual
Check scraper operations.	.....	Operator's Manual
Check for uneven bowl filling.	.....	Operator's Manual
Check for cutting edge wear.	.....	Operator's Manual
NUTS AND CAP SCREWS		
Tighten accessible nuts and cap screws	.....	Group 25

Group 15

TUNE-UP AND ADJUSTMENT

GENERAL INFORMATION

Before tuning up a scraper, determine whether a tune-up will restore operating efficiency. When there is doubt, the following preliminary tests will help to determine if the engine can be tuned up. If the condition is satisfactory, proceed with the tune-up. Choose from the following procedures only those necessary to restore the unit.

PRELIMINARY ENGINE TESTING

Operation	Specification	Reference
Cylinder compression	425 psi minimum, 50 psi maximum variation between cylinders	Section 20, Group 5
Check radiator for air bubbles and presence of oil	.....	.....

ENGINE TUNE-UP

AIR INTAKE SYSTEM

Service air cleaner and check system for leaks	.....	Section 30, Group 15
Check system for restrictions using water manometer (inches of water)	9-10 in. water and clean element; 25 in. max. permitted reading (full load - 2200 rpm)	Section 30, Group 15
Restriction indicator	24-26 in. water	Section 30, Group 15
Check crankcase breather for restrictions	.....	.....
Check exhaust system for restriction	.....	.....
Retighten cylinder head cap screws	180 ft-lbs in sequence	Section 20, Group 5
Check valve clearance	Intake 0.018 in. Exhaust 0.028 in.	Section 20, Group 5

ENGINE LUBRICATION SYSTEM

Check engine oil pressure	25-35 psi (1900 rpm)	Section 20, Group 10
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FUEL SYSTEM

Check fuel tank and lines for leaks and restrictions
Clean sediment bowls and change filter	Section 30, Group 10
Service injection nozzles	.....	SM-2045
Service injection pump and check timing	.....	.....
	2° advance at 1300 rpm (no load); 5° advance by 2500 rpm (no load); 4° advance at 1900 rpm (full load)	Section 30, Group 20

Adjust speed control linkage and check engine speeds

ENGINE TUNE-UP - Continued

Operation	Specification	Reference
ELECTRICAL SYSTEM		
Batteries		
Check electrolyte level	Fill to bottom ring of each cell	.....
Check battery specific gravity	1.240-1.260 at 80° F	.....
Clean battery cables and box	.....	.....
Check alternator belts tension	1-inch belt deflection with 20 in-lb force	.....
Check operation of alternator, air cleaner, oil pressure, and transmission filter restriction indicator lights	.....	Section 40, Group 20
Check alternator output	With Regulator (80° F) Minimum at 1660 rpm (800 engine rpm) 28 amps at 13.0 volts Minimum at 3000 alternator rpm (1443 engine rpm) 40-45 amps at 13.5 volts	Section 40, Group 10
Check alternator regulated voltage	14.2-14.6 volts at 80° F (operating)	Section 40, Group 10
Check starter safety switch operation	Voltage drop 0.1 volt maximum	Section 40, Group 15
SPEED CONTROL LINKAGE		
Adjust linkage	Foot-2400 rpm fast idle speed, 2200 rpm load speed Hand-2400 rpm fast idle speed, 2200 rpm load speed, 800 rpm slow idle speed	Section 20, Group 20

TRACTOR TUNE-UP

Check transmission disconnect pedal operation	Tractor should not creep when clutch is disengaged (2-1/4-inch average free travel)	
Transmission:		
Pump pressure	165 - 185 psi at 1900 rpm and 100° F.	Section 50, Group 10
Engaged element pressure	Max. of 15 psi less than pump	Section 50, Group 10
Check differential lock operation (engaged)	420 - 480 psi	Section 50, Group 15
Check brake pedal travel and even position of pedals against treadle	3 inches maximum pedal travel for 20 applications (each brake pedal) at 5 second intervals	Section 70, Group 25
Check front wheel bearing adjustment and lubrication	35 ft-lbs, loosen to hole	Section 80, Group 25
Check front wheel toe-in	1/8 - 3/8 in. less than rear	Section 80, Group 25
Transmission pump	12.5 gpm minimum at 1900 rpm at 165-185 psi	Section 70, Group 5
	2300 - 2400 psi (standby)	Section 70, Group 5
Main hydraulic pump	22 gpm at 2000 psi and 1900 rpm	Section 70, Group 5
Pressure control valve	1800-1850 psi at 800 rpm	

Group 20 LUBRICATION

GENERAL INFORMATION

Carefully written and illustrated lubrication instructions are given in the operator's manual furnished with your customer's machine. Remind him to follow these instructions carefully.

For your convenience when servicing the scraper the following chart shows service intervals, capacities and types of lubricant for each of the components and systems. A definition of lubricants follows the chart.

LUBRICATION CHART

Component	Capacity	Type of Lubricant	Interval of Service
Engine crankcase	20 U.S. quarts (includes filter)	See "Engine Lubricating Oil" on page 20-2	10 Hours - Check level 100 Hours - Change oil 200 Hours - Replace filter
Transmission and hydraulic system	24 U.S. gallons	John Deere Type 303 Special-Purpose Oil	10-Hours - Check level 500 Hours - Replace filters 1000 Hours - Change oil
Grease fittings	As required	John Deere Multi-Purpose Lubricant or an equivalent	See operator's manual
Chain	As required	Same as engine oil	10 Hours - Lubricate links
Draft frame and elevator gear box	To level of filler plug	SAE 140 EP Oil	As required - Check oil level 1000 Hours - Drain and refill
Tractor front and rear wheel bearings	As required	Wheel bearing grease	1000 Hours - Clean, repack and adjust
Scraper wheel bearings	As required	Wheel bearing grease	1000 Hours - Clean, repack and adjust
Side rails	As required	Waste oil	As required
Front wheel bearings	As required	John Deere Multi-Purpose Lubricant or an equivalent	10-Hours-only when operating in extremely wet and muddy conditions

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