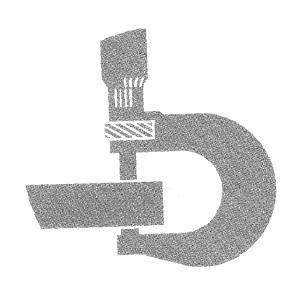
### John Deere JD760 Series-A Scraper



## **TECHNICAL MANUAL**

#### JD760 SERIES-A SCRAPER

## Technical Manual TM-1018 (Jan-74)

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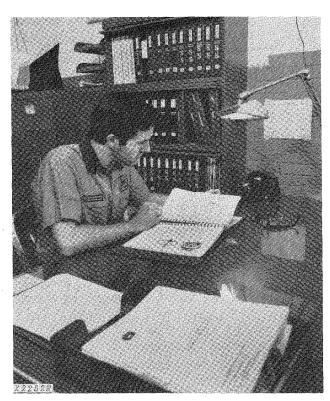
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#### INTRODUCTION



Use FOS Manuals for Reference

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

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

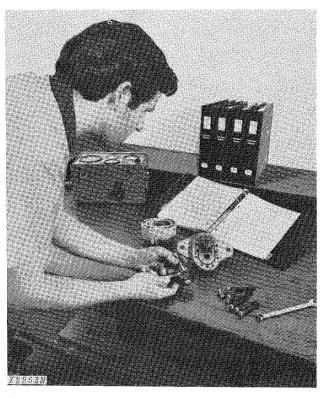
The two kinds of manuals work as a team to give you both the general background and technical details of shop service.

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.



Use Technical Manuals for Actual Service

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.

## Section 10 GENERAL

#### **CONTENTS OF THIS SECTION**

GROUP 5 - SPECIFICATIONS  Machine Specifications 5-1 Dimensions 5-3 Serial Numbers 5-4	GROUP 20 - LUBRICATION General Information
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	SPECIFICATIONS
Horsepower (at 2200 rpm)  Net engine flywheel (at 500 ft. altitude and 85°F. temperature)	Engine Lubricating System Force feed, pressurized, with full flow oil filter
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	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
Fuel System	brakes, scarifier and scraper functions
Type Direct injection Injection pump Inlet metering distributor-type	Steering  Type Full power, hydrostatic type, provision for manual operation
Cooling System  Type Pressurized with centrifugal pump Engine temperature control 2 thermostats	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

10

Power Shift Transmission		Tires
Type Planetary gea	ars, hydraulically actuated	Rear (tractor and scraper) 23.5-25, 12 ply
wet	disk clutches and brakes	23.5-25, 16 ply
Gear selections		
Shifting Hydraulic,	_ ·	Front:
	by speed selector	(early units)
		11.00-15, 12-ply
Power Takeoff		14.00-17.5, 10 ply
Type Indep		Capacities
	000 rpm rear vertical PTO,	Scraper (SAE Heaped) 9-1/2 cu. yd. or
Voltada	vertical or horizontal; controlled Scraper (SAE Heaped) 9-1/2 cu by hydraulically actuated 23,	
	wet disk clutch	Fuel tank 69 U.S. gal.
		Cooling system 36 U.S. qt.
Ground Speeds (Calculated	at 2200 engine rpm	Engine lubrication (including filter) 20 U.S. qt.
23.5-25 tires)	<del>-</del>	(without filter) 18 U.S. qt.
1st 2.4 mph	7th 15.2 mph	Transmission-hydraulic system 24 U.S. gal.
2nd 3.4 mph	8th 26.0 mph	
3rd 5.3 mph	Rev. 1 3.1 mph	Weight Distribution (23.5-25 tires)
4th 6.9 mph	Rev. 2 4.4 mph	Empty: Front axle 6,940 lbs.
5th 9.2 mph	Rev. 3 6.9 mph	Drive axle
6th 11.8 mph		Scraper axle 11,980 lbs.
		Total
		Loaded: Front axle
		Drive axle
		Scraper axle 27,890 lbs.
		Total 58,100 lbs.

#### **DIMENSIONS**

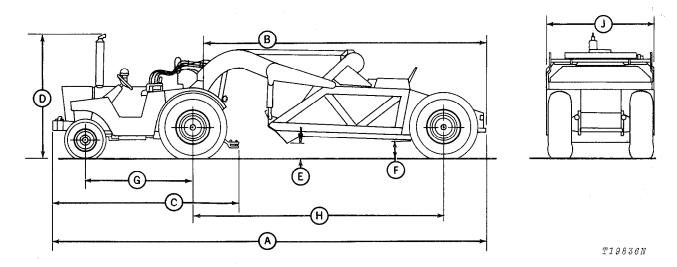


Fig. 1-JD760 Series-A Scraper Dimensions

	Bowl Up	Bowl Down
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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