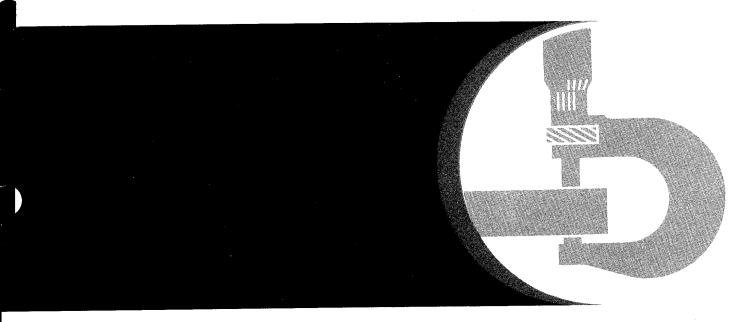
John Deere JD570 and JD570A Motor Grader





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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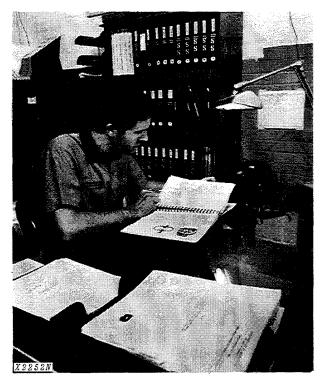
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INTRODUCTION



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

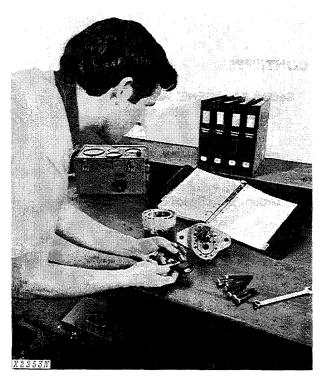
Fundamentals of Service (FOS) Manuals cover basic theory of operation, fundamentals of trouble shooting, general maintenance, and basic types of failures and their causes. FOS Manuals are for training new personnel and for reference by experienced personnel.



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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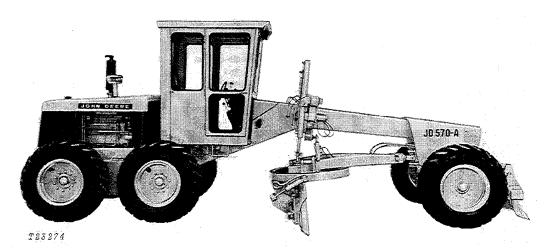


Fig. 1-JD570-A Motor Grader

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.)

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Power @ 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).

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

Final Drives
Brakes: Service Foot-operated, hydraulically actuated, wet-disk, effective on 4 tandem wheels Parking Hand-operated, mechanical, expanding dry shoe, effective on 4 tandem wheels
Steering: Front Full hydraulic power system Rear Hydraulically articulated frame steering (22 deg. left or right) Turning radius 18 ft. (5.49 m) Range 51 deg. left or right
Hydraulic System: Closed-center Pressure
Circle: 5.50x1x4.62x1 in. (140x25x117x25 mm) welded angle, 4 ft. 6 in. (1.37 m) dia. Rotation
Drawbar Tapered box, max. 3x7x0.375 in. (76x178x9.5 mm) 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)
Blade Lifting Mechanism: Control
Blade Range: Lift above ground .1 ft. 1 in. (330 mm) Blade side-shift:

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