

**2440 AND 2640
TRACTORS
(S/N -340999)**

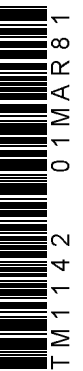


**TECHNICAL MANUAL
2440 AND 2640 TRACTORS
(S/N -340999)**

TM1142 (01MAR81) English

**JOHN DEERE TRACTOR WORKS
TM1142 (01MAR81)**

LITHO IN THE U.S.A.
ENGLISH



**2440 AND 2640
TRACTORS**
(Serial No. -340999)
TECHNICAL MANUAL
TM-1142 (Sep-75)

All information, illustrations and specifications contained in this technical manual are based on the latest information available at the time of publication. The right is reserved to make changes at any time without notice.

GENERAL 10

ENGINE 20

FUEL SYSTEM 30

ELECTRICAL SYSTEM 40

POWER TRAIN 50

STEERING AND BRAKES 60

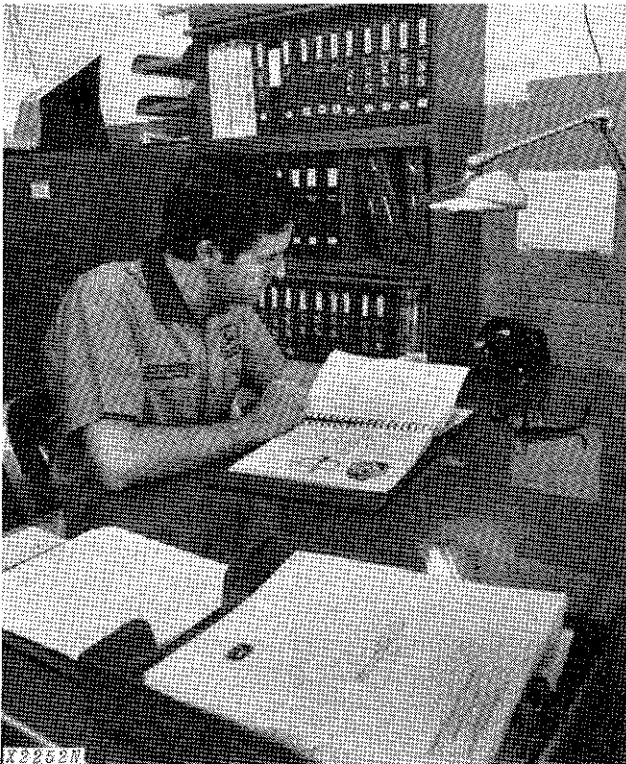
HYDRAULIC SYSTEM 70

MISCELLANEOUS 80

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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**

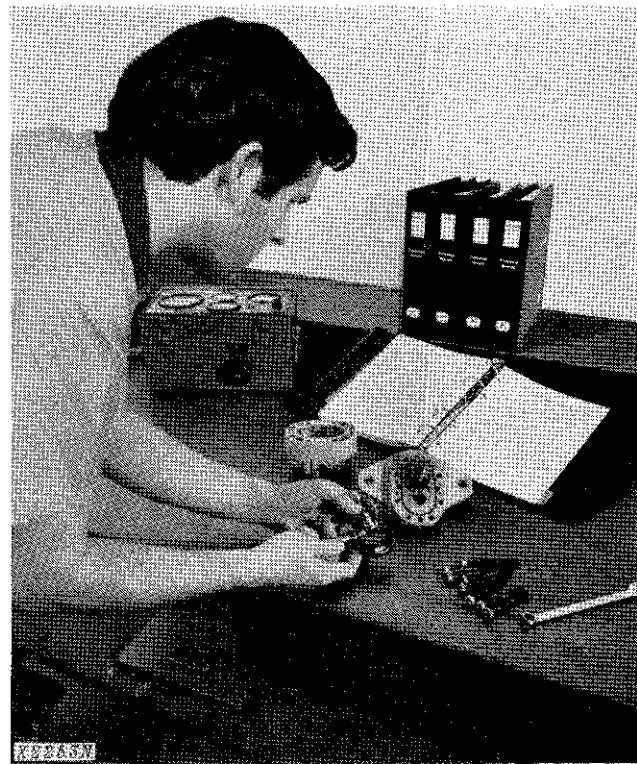
The two kinds of manuals work as a team to give you both the general background and technical details of shop service.

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 personnel and for reference by experienced technicians.

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 technician.



When a service person 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—an experienced 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.

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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Group 5 GENERAL TRACTOR SPECIFICATIONS (2440)

ENGINE

Maximum PTO horsepower* ..	60.65 (45.23 kW)
Number of cylinders	4
Bore and stroke	4.02 in. (102 mm) x 4.33 in. (110 mm)
Displacement	219 in. ³ (3590 cm ³)
Compression ratio	16.8 to 1
Firing Order	1-3-4-2
Intake valve clearance	0.014-in. (0.35 mm)
Exhaust valve clearance	0.018-in. (0.46 mm)
Slow idle	800 rpm
Fast idle	2650 rpm

*Official test at 2500 engine rpm (650 or 1210 PTO rpm)

ELECTRICAL SYSTEM

Battery dry voltage	12 volts
Battery specific gravity at full charge (corrected to 80°F [27°C])	1.260
Battery terminal grounded	negative

CAPACITIES

Fuel tank	19-1/2 gals. (73.8 L)
Cooling system	12 qts. (11.4 L)
Crankcase (including filter)	6 qts. (5.7 L)
Transmission-hydraulic system	10 gals. (38 L)
Belt pulley	2-1/2 pts. (0.3 L)

CLUTCH

Single or dual stage,
spring-loaded, dry
disk, foot-operated.

TRANSMISSION

Type Collar shift
 Gear selections 8 forward and 4 reverse
 Shifting 4 speeds each in high, low, and reverse ranges. Park lock included.

HI-LO SHIFT

Hydraulic wet clutches, no clutching required. Shifting from high to low decreases ground speed 21.4 percent and increases pull power up to 27 percent in any of the transmission speeds.

REVERSER

Hydraulic wet clutches, no clutching required. Provides reverse speeds for gear selections 1 through 4 which are 16% faster than corresponding forward speeds.

BRAKES Hydraulically actuated, wet-disk type.

DIFFERENTIAL AND FINAL DRIVES

Type Planetary reduction final drives with spiral bevel gear drive differential.
 Differential lock Hand or foot-operated mechanical lock, spring-loaded out of engagement.

POWER TAKE-OFF

Type Continuous-running or independent types available in 540 and/or 1000 rpm options.

HYDRAULIC SYSTEM

Type Closed center, constant pressure. Actuates power steering and implement control. Standby oil pressure 2250 psi (15.5 mPa)

STEERING

TYPE Hydraulically actuated, with manual provision in case of hydraulic failure.

FRONT TIRES (Standard Equipment)* 6.00-16

REAR TIRES (Standard Equipment)* 16.9-28

DIMENSIONS

Over-all height to top of muffler . 81.2 in. (206 cm)
 Over-all height to top of hood ... 55.7 in. (141 cm)
 Over-all width, min. 69.5 in. (177 cm)
 Over-all length
 (with 3-point hitch) 139.5 in. (354 cm)
 Wheelbase (straight axle) 87.8 (218 cm)
 Shipping weight (approx.) .. 4800 lbs. (2 182 kg)

**Additional tire sizes available.*

GROUND SPEEDS
 Given in MPH (km/h) with 16.9-28
 Rear Tires and 2500 Engine RPM

Gear	Collar Shift Transmission	Hi-Lo Shift Transmission		Ground Speed at Rated PTO SPEED (2100 RPM)			
				"Lo"		"Hi"	
		"Lo"	"Hi"	"Lo"	"Hi"	"Lo"	"Hi"
1st	1.53 (2.46)	1.20 (1.93)	1.53 (2.46)	1.01 (1.62)	1.28 (2.06)	1.83 (2.95)	2.72 (4.38)
2nd	2.18 (3.51)	1.72 (2.77)	2.18 (3.51)	1.44 (2.32)	1.83 (2.95)	2.72 (4.38)	3.80 (6.12)
3rd	3.24 (5.21)	2.55 (4.10)	3.24 (5.21)	2.14 (3.44)	2.72 (4.38)	3.80 (6.12)	5.04 (8.10)
4th	4.53 (7.28)	3.56 (5.72)	4.53 (7.28)	2.99 (4.81)	3.80 (6.12)	5.04 (8.10)	7.20 (11.57)
5th	6.00 (9.65)	4.71 (7.57)	6.00 (9.65)	3.96 (6.37)	5.04 (8.10)	7.20 (11.57)	10.68 (17.17)
6th	8.57 (13.78)	6.73 (10.82)	8.57 (13.78)	5.66 (9.09)	7.20 (11.57)	10.68 (17.17)	14.93 (24.01)
7th	12.71 (20.44)	9.99 (16.06)	12.71 (20.44)	8.39 (13.50)	10.68 (17.17)	14.93 (24.01)	1.49 (2.40)
8th	17.78 (28.59)	13.97 (22.46)	17.78 (28.59)	11.73 (18.86)	14.93 (24.01)	1.49 (2.40)	2.13 (3.43)
R1	1.78 (2.86)	1.40 (2.25)	1.78 (2.86)	1.17 (1.88)	1.49 (2.40)	2.13 (3.43)	3.16 (5.09)
R2	2.54 (4.08)	1.99 (3.20)	2.54 (4.08)	1.67 (2.69)	2.13 (3.43)	3.16 (5.09)	4.42 (7.11)
R3	3.77 (6.06)	2.96 (4.76)	3.77 (6.06)	2.48 (4.00)	3.16 (5.09)	4.42 (7.11)	
R4	5.26 (8.46)	4.14 (6.66)	5.26 (8.46)	3.47 (5.59)	4.42 (7.11)		

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