

JOHN DEERE 400 HYDROSTATIC TRACTOR

Service Manual
SM-2103 (Jun-79)

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(All information, illustrations and specifications contained in this service 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.)

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INTRODUCTION

This service manual contains service and maintenance information for the John Deere 400 Hydrostatic Tractor.

The manual is divided into sections. Each section pertains to a certain component or operational system of the tractor. The information is divided into groups within each section.

All sections of this service manual should be carefully studied by the serviceman. Much basic information such as the principles of 4-cycle engine operation, carburetion and ignition have been omitted. Such information can be found in any good library and is recommended reading for the new serviceman before consulting this manual for service procedures.

Emphasis is placed on diagnosing malfunctions, analysis and testing. Diagnosing malfunctions lists possible troubles, their causes and how to correct them. Under specific components these troubles are analyzed to help the serviceman understand what is causing the problem so he can correct it rather than just replace parts and have the same problem keep recurring.

Specifications are found at the end of each Section for easy reference.



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.

This manual can be kept in its own cover, or it can be removed and filed in your service manual rack or Consumer Product Service Information Binder.

SI (International System) Units of Measure

Metric equivalents have been included, where applicable, throughout this service manual.

Section 10 GENERAL

Group 5 TRACTOR IDENTIFICATION

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TRACTOR SERIAL NUMBER

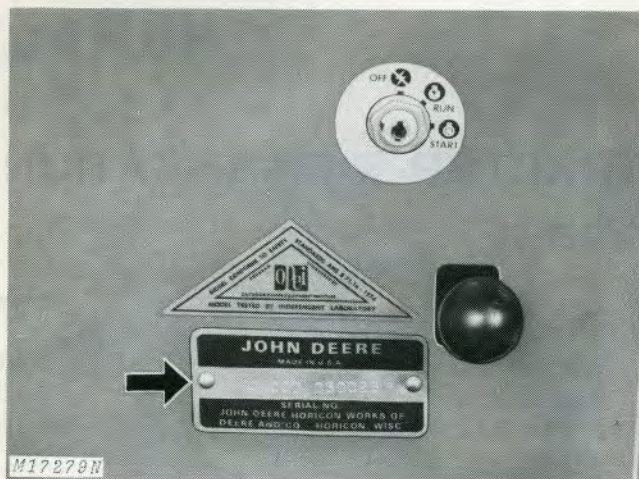


Fig. 1-Tractor Serial Number

The tractor serial number plate is located just below the key switch on the pedestal, Fig. 1.

ENGINE SERIAL NUMBER

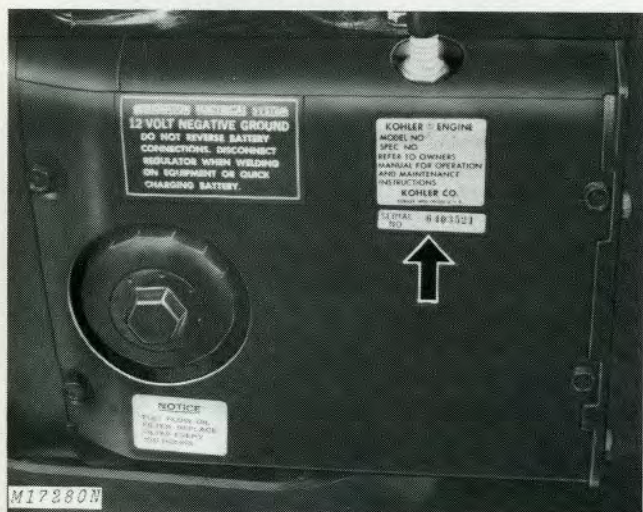


Fig. 2-Engine Serial Number

The engine serial number is located on the right-hand cylinder head shroud, Fig. 2.

TRANSMISSION SERIAL NUMBER

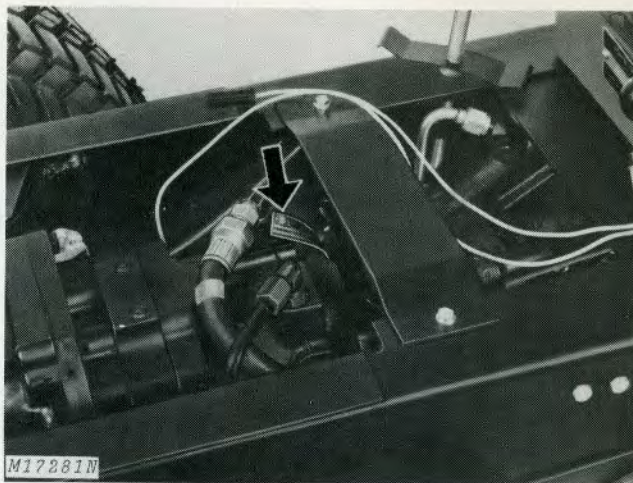


Fig. 3-Transmission Serial Number

The transmission serial number is stamped on a tag attached to the transmission, Fig. 3.

REAR AXLE SERIAL NUMBER

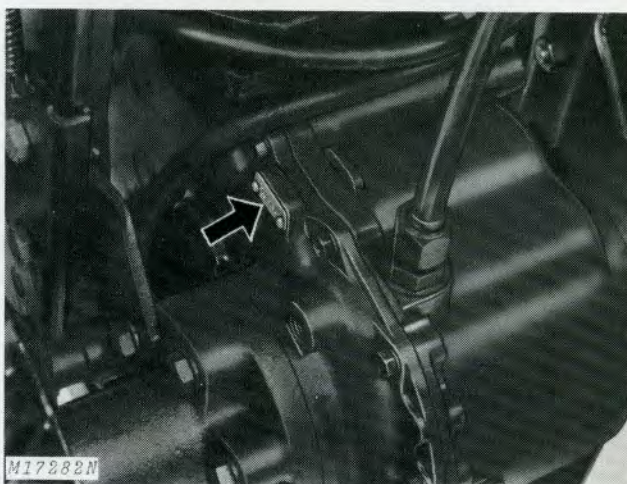


Fig. 4-Rear Axle Serial Number

The rear axle serial number is stamped on a tag attached to the rear axle, Fig. 4.

Group 10 SPECIFICATIONS

TRACTOR SPECIFICATIONS

ENGINE

Manufacturer	Kohler
Model Number	K532QS
Cylinders	2
Type	4 Cycle-Air Cooled
Bore	3.375 in. (8.57 cm)
Stroke	3.000 in. (7.62 cm)
Displacement	53.7 cu. in. (880.14 cc)
Horsepower	19.9 (14.726 kw)
Speeds	
Idle	1700-1900 rpm
High (No Load)	3400-3500 rpm

POWER TRAIN

Hydrostatic Transmission	Sundstrand 15 Series (In-line)
Axle	Peerless (2-Speed) Model 2514
Brakes	Individual Rear Wheel (Drum-Type)

HYDRAULICS

Control Valve	3-Spool (Open Center)
Outlets	2 Sets (Front)
Rockshafts	Rear & Mid-Mounted (Both Operated by One Cylinder)
Power Steering	Standard Equipment

ELECTRICAL SYSTEM

Battery	12-Volt (BCI Group 22F) (AM31186)
Ignition	Battery-Coil
Spark Plug	Prestolite 14-L7B (AT17208)
AC	45-L (AM1535T)
Champion	H-10 (AM514T)
*Resistor-Type	RH-10 (AM37129)
Spark Plug Gap	0.035 in. (0.8890 mm)
Breaker Point Gap	0.020 in. (0.508 mm)
Charging Capacity	15 Amps

CAPACITIES

Fuel Tank	4.5 U.S. Gallons (17.034 l)
Crankcase	6 U.S. Pints (2.838 l)
Transmission	11 U.S. Pints (5.17 l)

FUEL AND LUBRICANTS

Fuel	Non-Leaded or Regular Grade (85 Octane or Higher)
Crankcase	JD Torq-Gard Supreme (Summer-Above 32°F) SAE 30 or Equivalent (Winter-Below 32°F) SAE 5W-20 or Equivalent

**In Canada, compliance with radio interference regulations certified. Replace spark plug with resistor spark plug only.*

Litho in U.S.A.

Transmission	JD All-Weather Hydrostatic Fluid or Equivalent
Grease Fittings	JD Multi-Purpose Lubricant or Equivalent

FILTERS

Engine Oil Filter	AM34770
Engine Air Filter	M47494
Transmission Oil Filter	AM35176

GROUND TRAVEL SPEEDS @ 3400 RPM

Forward (Low)	Variable 0.5 to 5.6 mph (0.8 to 8.85 km/h)
Forward (High)	Variable .5 to 10.8 mph (0.8 to 17.19 km/h)
Reverse (Low)	Variable .5 to 2.1 mph (0.8 to 3.22 km/h)
Reverse (High)	Variable .5 to 4.0 mph (0.8 to 6.44 km/h)

DIMENSIONS

Wheelbase	52 in. (132.08 cm)
Over-All Length	76 in. (193.04 cm)
Over-All Height	46 in. (116.84 cm)
Over-All Width (Max.)	49 in. (124.46 cm)
Tread	
Front	35 in. (88.90 cm)
Rear (Wheels In)	32 in. (81.28 cm)
Rear (Wheels Out)	37 in. (93.98 cm)

TIRES

Standard	
Front	18x8.50-8 High-Flotation
Rear (GT-12)	26x12.00-12 High-Flotation
Accessory (Field Installed)	
Rear (GT-14)	26x12.00-12 Traction Tire
Tire Pressure*	
Front (Std. Tire)	6 to 16 psi (41 to 110 kPa)
Rear	5 to 10 psi (34 to 69 kPa)

WEIGHT

Curb	975 lbs. (442.25 kg)
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**Inflation will vary with attachment used.*

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