Tractor, Hydrostatic - 400 SM-2103 (Jun-79)

JOHN DEERE 400 HYDROSTATIC TRACTOR

Service Manual SM-2103 (Jun-79)

TABLE OF CONTENTS

| SECTION 10 - GENERAL |
|--|
| Group 5 - Tractor Identification |
| Group 10 - Specifications |
| Group 15 - Fuel and Lubricants |
| Group 20 - Tune-up and Adjustments |
| Acceution Product Service Information Bipper, 1999 |
| SECTION 20 - KOHLER ENGINE |
| Group 5 - General Information |
| Group 10 - Cylinder Head and Valves |
| Group 15 - Engine Removal and Installation |
| Group 20 - Internal Components |
| Group 25 - Engine Lubrication System |
| Group 30 - Specifications |
| |
| SECTION 30 - FUEL SYSTEM |
| Group 5 - General Information |
| Group 10 - Carburetor and Anti-Dieseling |
| Solenoid |
| Group 15 - Governor |
| Group 20 - Fuel Tank and Fuel Pump |
| Group 25 - Air Cleaner |
| |
| SECTION 40 - ELECTRICAL SYSTEM |
| Group 5 - General Information |
| Group 10 - Cranking System |
| Group 15 - Ignition System |
| Group 20 - Charging System |
| Group 25 - Accessories |
| |

| Group | 5 | - | - POWER TRAIN General Information |
|-------|----|---|--------------------------------------|
| Group | 10 | - | Hydrostatic Transmission |
| Group | 15 | - | Hydrostatic Control Linkage |
| Group | 20 | - | Two Speed Rear Axle |
| Group | 25 | - | Brakes |

SECTION 60 - HYDRAULIC SYSTEM Group 5 - General Information

Group 10 - Implement Control Valve Group 15 - Rockshaft Cylinder Group 20 - Power Steering Control Valve Group 25 - Power Steering Cylinder Group 30 - Hydraulic Lines and Couplers

SECTION 70 - MISCELLANEOUS Group 5 - Front Axle and Steering Linkage Group 10 - Lift Linkage Group 15 - Front PTO

SECTION 80 - SPECIAL SERVICE TOOLS Group 5 - Engine Essential Service Tools Group 10 - Engine Convenience Service Tools Group 15 - Tractor Essential Service Tools Group 20 - Tractor Convenience Service Tools

SECTION 90 - TRACTOR ATTACHMENTS

- Group 5 50 Snow Thrower
- Group 10 35A Rotary Tiller
- Group 15 60 Rotary Mower

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1

Tractor, Hydrostatic - 400 SM-2103 (Jun-79)

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.

Tractor, Hydrostatic - 400 SM-2103 (Jun-75)

Section 10 GENERAL Group 5 TRACTOR IDENTIFICATION

TABLE OF CONTENTS

Page

| GROUP 5 - TRACTOR IDENTIFICATION | |
|----------------------------------|-----|
| Tractor Serial Number | 5-2 |
| Engine Serial Number | 5-2 |
| Transmission Serial Number | 5-2 |
| Rear Axle Serial Number | 5-2 |
| | |

| Page |
|------------------------------------|
| GROUP 20 - TUNE-UP AND ADJUSTMENTS |
| Purpose of Instructions 20-1 |
| Engine Tune-up |
| Tractor Adjustment 20-13 |

GROUP 10 - SPECIFICATIONS

| Tractor Specifications | 10-1 |
|--------------------------------|------|
| Bolt Torque Chart | |
| Set Screw Seating Torque Chart | |

GROUP 15 - FUEL AND LUBRICANTS

| Fuel | 15-1 |
|--|------|
| Lubricants | |
| Capacities | 15-2 |
| Service Intervals | 15-2 |
| Checking Engine Crankcase Oil | |
| Changing Engine Crankcase Oil | |
| Changing Engine Oil Filter | 15-3 |
| Checking Transmission Fluid Level | 15-3 |
| Changing Transmission Fluid and Filter | 15-4 |
| Lubricating Grease Fittings | |
| | |

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TRACTOR SERIAL NUMBER

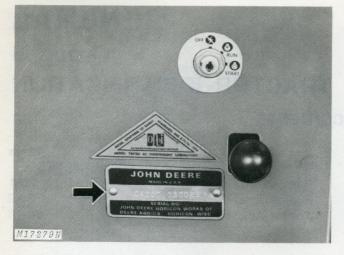


Fig. 1-Tractor Serial Number

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 righthand 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

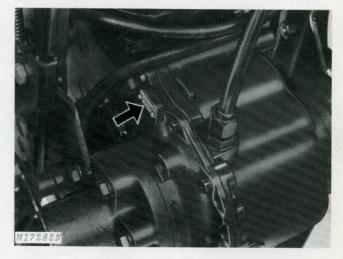


Fig. 4-Rear Axle Serial Number

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

Tractor, Hydrostatic - 400 SM-2103 (Jun-79)

Group 10 SPECIFICATIONS

TRACTOR SPECIFICATIONS

ENGINE

| ManufacturerKohler |
|---------------------------------------|
| Model Number |
| Cylinders 2 |
| Type 4 Cycle-Air Cooled |
| Bore |
| Stroke |
| Displacement 53.7 cu. in. (880.14 cc) |
| Horsepower |
| 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 |
|-----------------------------------|
| 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 PlugPrestolite | 14-L7B | (AT17208) |
| AC | 45-L | (AM1535T) |
| Champion | H-10 | (AM514T) |
| *Resistor- | | |
| Туре | 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 I) |
|---------------|--------------------------|
| Crankcase | . 6 U.S. Pints (2.838 I) |
| Transmission | . 11 U.S. Pints (5.17 I) |

FUEL AND LUBRICANTS

Fuel Non-Leaded or Regular Grade (85 Octane or Higher) CrankcaseJD 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.

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| TransmissionJD 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 51 in. (88.90 cm) Rear (Wheels In) 32 in. (81.28 cm) Rear (Wheels Out) 37 in. (93.98 cm) |
| TIRESStandardFrontRear (GT-12)26x12.00-12 High-FlotationAccessory (Field Installed)Rear (GT-14)Rear (GT-14)Front (Std. Tire)6 to 16 psi (41 to 110 kPa)RearRearSto 10 psi (34 to 69 kPa) |

WEIGHT

*Inflation will vary with attachment used.

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