

Marketing Information

John Deere Company

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Number: M-87-1d

Factory: Lawn and Garden Tractors - Horicon Works



NEW 322 GASOLINE TRACTOR



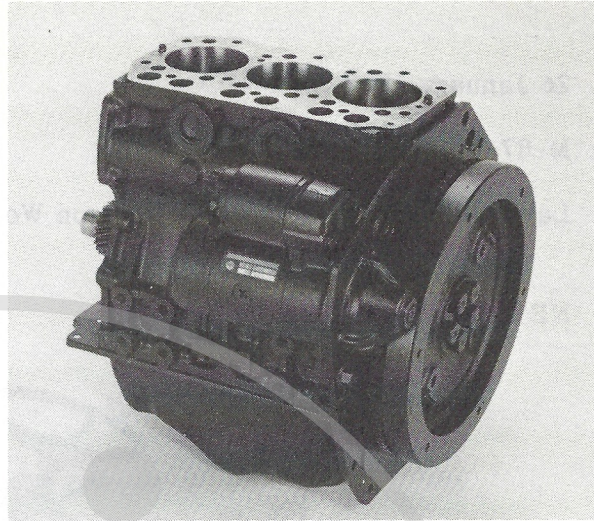
The new 322 Tractor, with its 18-horsepower liquid cooled gasoline engine, will give your customers another choice in the popular 300 series tractor line. Like the 318 and 332, it is well suited to both residential and commercial uses and has the following deluxe features:

- Power Steering
- Dual Brake Pedals
- Two Sets of Front Outlets
- Dual Hydraulic Controls
- Low Fuel Light
- Headlights and Taillights
- Hourmeter

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The engine is unique. It is a gasoline version of the Yanmar 3-cylinder liquid-cooled diesel engine used in the 332 Tractor. Many heavy-duty diesel engine components, such as the block, crankshaft, bearings, starter and oil pump are common to the 322 engine. They help ensure smooth operation, reliability, and long life.



Engine features and benefits include:

Features

Liquid cooling

Gasoline fuel

3-cylinder design

Electronic ignition

Full pressure lubrication

Replaceable oil filter

Replaceable air cleaner element

Electric fuel pump

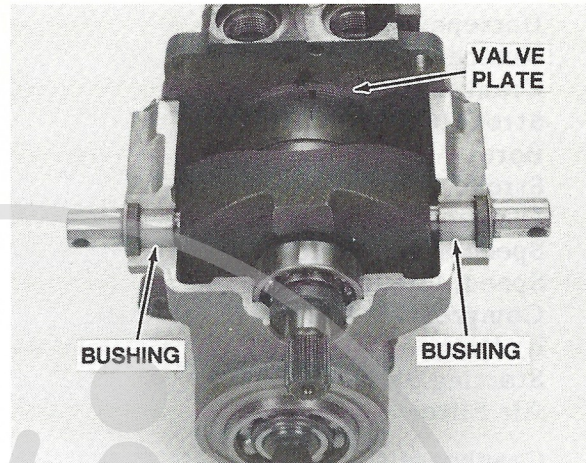
Benefits

- very quiet operation
- long engine life
- smooth, quiet operation
- familiar engine maintenance
- smooth running
- fast, positive starts
- no points to adjust or replace
- reduced spark plug maintenance
- positive lubrication
- clean oil for long engine life
- effectively sealed for long engine life
- easy to check and change element
- positive fuel availability for fast starts

Quieter Hydrostatic Transmission

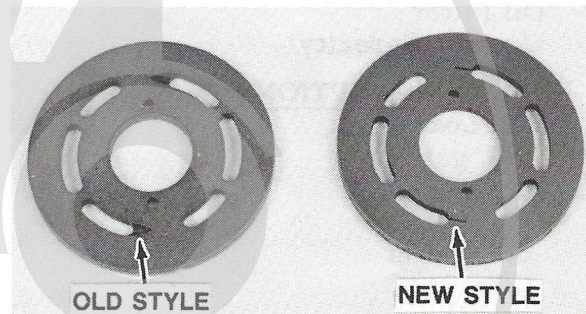
Improvements have been made to the Sundstrand hydrostatic transmission to reduce the hydraulic noise which occurs when changing speeds.

The needle bearings in the transmission shaft which controls the adjustable swashplate have been replaced with close fitting bronze bushings. The result is greatly reduced vibration of the swashplate during speed changes and a noticeable reduction in sound.



The porting in the valve plate has been refined to further reduce sound levels.

The result is a tractor which is much quieter in both the engine and transmission areas.



Implement Compatibility

The 322 Tractor is recommended for use with the following implements:

- 38" Mid-mount Rotary Mower (Use BM16603 Attaching Parts)
- 46" Mid-mount Rotary Mower (Use M89112 Belt)
- 50" Mid-mount Rotary Mower (Use M89112 Belt)
- 50" 3-Point Hitch Rotary Mower
- 260 (60") 3-Point Hitch Rotary Mower
- 2-Bag Rear Grass Bagger (With 38" Mower only)
- 2-Bag Power Flow (With 38", 46", and 50" Mowers)
- 3-Bag Power Pak MCS (With 46" and 50" Mowers)
- Tilt Dump Power Pak
- Hydraulic Dump Power Pak
- 54 (54") Front Blade
- 49 (46") Snow Thrower
- 47" Two Stage Snow Blower
- 44 Front Loader
- 30" Hydraulic Tiller
- 48" Rotary Tiller
- 20 (12") Plow
- Thatchers

Availability: July 1987

Specifications

ENGINE

Manufacturer	Yanmar
Model Number	3TG66UJ
Horsepower (SAE J1349)	18 (13.4 kW)
Number of Cylinders	3
Crankshaft	Horizontal
Stroke/Cycle	4
Bore	2.6 in. (66mm)
Stroke	2.5 in. (64.2mm)
Displacement	40.2 cu. in. (658cm ³)
Speed, Fast (no load)	3425 rpm
Speed, Idle (no load)	1300 rpm
Compression Ratio	8.7 to 1
Ignition	Battery based electronic
Starting Systems	Battery, 12 volts, electric solenoid
Air Filter	Dry replaceable element
Crankcase Capacity	4.2 U.S. Pt. (2L)
Oil Filter	Replaceable
Coolant Capacity	3 U.S. qt. (2.8L)

FUEL CONSUMPTION @ MAX. RPM:

* Full Load-	
U.S. gal/hr	1.5
L/hr	5.7
* One-half load-	
U.S. gal/hr	0.9
L/hr	3.4

ELECTRICAL SYSTEM:

Charging System	Remote Alternator
	20 amp
Battery Type	BCI group, U1
Battery Voltage	12 Volts
Battery, Reserve Capacity @25 Amp	44 min.
Battery Cold Cranking Amp at 0° F	342 Amp.

FUEL SYSTEM:

Fuel Tank Location	Rear
Fuel Tank Capacity	4.5 U.S. gal. (17L)
Fuel	Regular or Unleaded Gasoline
Fuel Pump Location	Frame
Fuel Pump Type	Electric
Carburetor Type	Fixed Jet

DRIVE TRAIN:

Transmission Type	Hydrostatic
Number of Speeds	Infinite
Travel Speeds - Forward	0.5 to 7.3 mph (0.8 to 11.7 km/h)
- Reverse	0.5 to 3.7 mph (0.8 to 5.9 km/h)

* Fuel consumption will vary with use and conditions. One-half load more nearly approximates average mowing conditions and moderate use.

Transmission Capacity
(includes filter) 13 U.S. pt. (6.2L)

CHASSIS:

Wheelbase 46 in. (1.2m)
Overall Length 69.5 in. (1.8m)
Overall Height 44.5 in. (1.1m)
Overall Width (Max.) 43.3 in. (1.1m)
Overall Width (Min.) 41 in. (1.04m)
Turning Radius, Inside Rear Wheel 26 in. (660mm)
Turning Radius, Outside Front Wheel 80 in. (2.0m)

WHEEL TREAD:

Front 32 in. (813mm)
Rear, narrow 30.5 in. (775mm)
Rear, wide 32.8 in. (834mm)

TIRES:

Type, front Turf
Type, rear Turf or bar
Size, front 16x6.50-8
Size, rear 23x10.50-12
Inflation Pressure, front 6 to 16 lbs.
Inflation Pressure, rear 5 to 10 lbs.

BRAKES:

Location Each rear wheel
Type Shoe
Parking Yes

STEERING:

Power, Hydrostatic

PTO:

Type Electric, front

RPM

Speed, fast (no load) 3425

Speed, idle (no load) 1300

ATTACHMENT LIFT:

Dual Hydraulic

SOUND RATING:

Operator's ear
(A- weighted sound level) 91 decibels

NET WEIGHT, (no fuel)

900 lbs. (408 kg)

SHIPPING WEIGHT

980 lbs. (445 kg)

(Specifications and design subject to change without notice)