

Model Year 2023: S100 Tractor

Specifications

S100 - 42 (Model year 2023)

KEY SPECS	
Engine power	17.5 hp 13 kW
Oil change	No-tools oil drain with replaceable filter
Engine manufacturer/model	31R977 (M31)
Transaxle type	TLT200 hydrostatic, two-wheel drive
Transaxle control	Side-by-side pedals
Rear tires	20x8-8
Lift system type	Spring-assisted hand-grip lever
Cutting width	Edge™ mower deck, 42 in. 107 cm
Warranty	2 year/120 hour bumper-to-bumper* (*Term limited to years or hours used, whichever comes first, and varies by model. See the LIMITED WARRANTY FOR NEW JOHN DEERE TURF AND UTILITY EQUIPMENT at JohnDeere.com or JohnDeere.ca/TUWarranty for details.)

ENGINE	
Power	17.5 hp 13 kW
Displacement	30.5 cu in. 500 cc
Manufacturer/model	31R977 (M31)
Type	Overhead valve, full-pressure lube, oil filter
Cylinders	One
Governor	Mechanical
Choke/speed control	Single lever with spring-return on choke
Cooling method	Air
Air cleaner	Cartridge
Oil change	No-tools oil drain with replaceable filter

FUEL SYSTEM	
Type	Gasoline
Fuel delivery	Pulse pump and carburetor
Fuel gauge	Mechanical, viewable from seat

FUEL SYSTEM	
Fuel tank location	Rear
Fuel fill opening	Center, 1.75 in. 4.45 cm
Fuel tank capacity	2.4 U.S. gal. 9.1 L

ELECTRICAL SYSTEM	
Battery	12 V 300 CCA
Charging system	Regulated, 8 amp
Engine starter	Bendix type
Hour meter	Yes
Headlights	Two standard, incandescent
Taillights or reflector	No
Backup lights	No
Rear work lights	No
12-V outlet	No

TRANSAXLE	
Type	Hydrostatic, 2-wheel drive
Control	Side-by-side pedals
Cruise control	No
Oil cooler	Fins and fan on transaxle
Oil filter	Yes, not serviceable
Differential lock	No
Forward speed	0-5.5 mph 0-8.9 km/h
Reverse speed	0-3.2 mph 0-5.2 km/h
Brakes	Internal wet disk

CHASSIS	
Frame	Full-length welded steel

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Engine horsepower and torque information are provided by the engine manufacturer to be used for comparison purposes only. Actual operating horsepower and torque will be less. Refer to the engine manufacturers Web site for additional information.

CHASSIS	
Primer/paint	E-coat/powder
Weight bracket	Optional rear
Receiver hitch	No
Front axle	Cast-iron front axle, powdered-metal front wheel bushings
Spindle bushings	No
Front tires	15x6-6
Rear tires	20x8-8
Hood material	Molded-in color material reduces sound, will not rust or dent
Fender deck material	Stamped steel
Floor mats	Yes, with debris removing channels
Storage	Storage tray with optional cover
Service interval decal	Yes
Fender handles/grips	No
Cup holder	Yes
Equipment mounting	CargO Mount™ system
Maximum towing capacity	500 lb 227 kg

STEERING	
Type	Sector and pinion with single drag link and tie rod
Four-wheel steer	Not available on this model
Steering wheel	Standard, diameter - 12 in. 30.5 cm
Tilt steering wheel	No
Turning radius	18 in. 45.7 cm
Uncut circle radius	25 in. 63.5 cm

SEAT	
Type	One piece
Seat back height	11 in. 28 cm
Armrests	No
Fore-aft adjustment	While seated, 5.5 in. 14 cm

SEAT	
Seat suspension	Tilt, two coil springs

LIFT SYSTEM	
Type	Spring-assisted hand-grip lever
Hydraulic outlets	No
Mower cut height	13 positions, 1-4 in. 2.5-10.2 cm
Cut height increments	0.25 in. 0.64 cm
Preset cut height	No

MOWER DECK	
Type	Side discharge
Cutting width	Edge™ mower deck, 42 in. 107 cm
Construction	Stamped steel deck shell
Mower deck material	Steel, 13 gauge 0.090 in.
Mower wash port	Yes
Mower drive system	Manual power take-off (PTO)
Mower wheels	Two
Mower wheel adjustment	One bolt
Mower level adjustment	Easy-level deck

MOWER ATTACHABILITY	
Type	Slide under tractor
Front draft arms	One spring clip
Rear draft arms	Two spring clips
Mower wheels rotate	No
Drive system	Single belt

SAFETY	
Meets ANSI standard	Yes
Meets OPEI standard	Yes
Backup protection	Reverse Implement Option (RIO)

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SAFETY	
Safety video	Yes

BUYER'S NOTES	
Notes	Molded-in color material reduces sound, will not rust or dent
Warranty	2 year/120 hour bumper-to-bumper* (*Term limited to years or hours used, whichever comes first, and varies by model. See the LIMITED WARRANTY FOR NEW JOHN DEERE TURF AND UTILITY EQUIPMENT at JohnDeere.com or JohnDeere.ca/TUWarranty for details.)

OPTIONAL EQUIPMENT	
Rear bagger	2-bag, 6.5 bu 229 L
Mulching system	Mulch cover or high-performance plug
Front blade	46 in. 116.8 cm
Snow blower	Two-stage, 44 in. 111.8 cm
Sprayer	Tow-behind, 15 U.S. gal. 56.8 L
Spreader	Tow-behind only, 125-175 lb 57.7-80 kg
Front bumper	Styled front bumper
Weather protection	Weather enclosure

OPTIONAL EQUIPMENT	
Sun canopy	Sun canopy
Bucket holder	Yes, single bucket
Grass striping	Lawn striping kit
Tow-behind tools	16

DIMENSIONS	
Height	40 in. 1016 mm
Overall length	69.7 in. 1770 mm
Wheelbase	48.9 in. 1242 mm
Width with mower	55.2 in. 1402 mm
Width with mower (deflector raised for storage)	46.5 in. 1181 mm
Width without mower	39.2 in. 996 mm
Weight	Mower, no fuel, 414 lb 188 kg

ADDITIONAL INFORMATION	
Manufacturing location	Greeneville, Tennessee, USA
Date collected	1-Dec-21

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