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9R 490

Tractor

- Engine HP: 539 Max / 490 Rated
- AutoTrac™, StarFire™ receiver, and Gen 4 display integrated
- e18™ PowerShift Transmission
- Choice of three different cab and visibility packages

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Features

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- + PowerTech™ 13.6L (827-cu in.) engine: real world usability, not just power on paper
- + 9 Series Visibility packages let you run with confidence, dawn until dusk
- + Put more power to the ground, more comfortably, with the industry-exclusive HydraCushion™ suspension
- + In the field or on the road: adjust steering ratio on-the-go with ActiveCommand Steering (ACS™)
- + John Deere integrated solutions: a world of connected technology, right from the factory
- + Work at your best with 9 Series Comfort and Convenience packages
- + A range of hydraulic options give you the power and flexibility to take on your toughest applications
- + The new 9 Series: Easy to run, easy to maintain

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Specifications

Key Specs

Engine description

John Deere PowerTech™ 13.6L (B20 diesel compatible)

Engine displacement

13.6 L
827 cu in.

Rated engine power

360 kW
490 hp

Maximum engine power	396 kW 539 hp
Rated PTO power (hp SAE)	249 kW 335 hp
Transmission type	John Deere e18™ 18-speed PowerShift™ with Efficiency Manager™: 40 km/h 25 mph
Hydraulic pump rated output	Standard: 208 L/min 55 gpm Optional: 416 L/min 110 gpm
Rear hitch category (SAE designation)	Category 4N: 6804 kg 15,000 lb Category 4N: 9072 kg 20,000 lb Category 4N/4: 6804 kg Category 4N/4: 9072 kg
Base machine weight	20,856 kg 45,980 lb

Engine specifications

Description	John Deere PowerTech 13.6L (B20 diesel compatible)
Engine type	Diesel, inline, 6-cylinder, wet-sleeve cylinder liners with four valves in-head
Rated speed	2100 rpm
Aspiration	Single wastegated turbocharger with air-to-air aftercooling and cooled exhaust gas recirculation (EGR)

Emission level

Final Tier 4 (FT4)

After treatment type

Diesel oxidation catalyst (DOC)/selective catalytic reduction (SCR)

Displacement

13.6 L
827 cu in.

Engine performance

Rated power

360 kW
490 hp

Rated PTO power (hp SAE)

249 kW
335 hp

Power boost

10 percent

Maximum engine power

396 kW
539 hp

Engine peak torque

At 1600 rpm: 2262 Nm 1668 lb-ft

PTO torque rise

38 percent

Transmission

Type

John Deere e18 18-speed PowerShift with Efficiency Manager: 40 km/h
25 mph

Hydraulic system

Type

Closed-center, pressure-and-flow compensated

Pump rated output

Standard: 208 L/min
55 gpm
Optional: 416 L/min
110 gpm

Available flow at a single rear SCV

1.3-cm (1/2-in.) couplers: 132 L/min
35 gpm
1.9-cm (3/4-in.) couplers: 159 L/min
42 gpm

Number of rear selective control valves (SCVs)

Four to eight factory or field installed
Base: four 1.3-cm (1/2-in.) couplers
Optional: five to six 1.3-cm (1/2-in.) couplers factory installed
Optional: three 1.9-cm (3/4-in.) couplers plus five 1.3-cm (1/2-in.) couplers factory installed

SCV control

Electronic

Rear hitch

Hitch category (SAE designation)

Category 4N: 6804 kg
15,000 lb
Category 4N: 9072 kg
20,000 lb
Category 4N/4: 6804 kg
Category 4N/4: 9072 kg

Maximum lift capacity behind lift points

Category 4N/4: 9072 kg
20,000 lb

Sensing type

Electrohydraulic with draft sensing

Drawbar

Drawbar category

Category 5

Maximum vertical load

5440 kg
12,000 lb

Rear power take-off (PTO)

Type

Independent
44 mm (1.75 in.) 20-spline, 1000 rpm

PTO actuation

Electrohydraulic

Rear axle

Type

Diameter: 120 x 3048 mm
4.72 x 120 in.

Final drive type

Inboard planetary with double-reduction axle

Rear differential lock

Full-locking electrohydraulic

Front axle

Type

Diameter: 120 x 3048 mm
4.72 x 120 in.

Front axle differential lock

Full-locking electrohydraulic

Tires

Turning radius with brakes

Group 47 or Group 48 tires: 6.035 m
19.8 ft

Steering

Type

Standard: Hydraulic power steering
Optional: ActiveCommand Steering (ACS™)

Electrical system

Alternator size

Standard: 250 amp
Optional: 330 amp

Battery options

12 V

Working lights

Standard: 18 halogen
Optional: 18 or 24 LED plus 8 LED convenience lights

Type of bulb in headlight
(Halogen, Zenon, LED)

Standard: halogen, 65 W
Optional: LED

Total cold cranking amps

3 x 925 CCA
Total: 2775 CCA

Operator station

Seat

Degree of seat swivel, left hand
25 degree (angle)
Degree of seat swivel, right hand
40 degree (angle)
Standard: air suspension
Optional: ActiveSeat™ II

Instructional seat

Standard

Display

Standard: Generation 4 4600 CommandCenter™: 25.4 cm
10 in.
Optional: Extended monitor

Radio

Standard: AM/FM stereo with weatherband, remote controls, auxiliary input jack, four speakers and external antenna
Optional: Touchscreen radio

Inner cab volume

3.27 m³
115 cu ft

Cab glass area

6.64 m²
71.47 sq ft

Dimensions

Wheelbase

3912 mm
154 in.

Overall length

With front weights, excluding hitch and coupler: 7945 mm
312.8 in.
With front weights, including hitch and coupler: 8427 mm
331.8 in.

Drawbar clearance

Group 48 tires: 527 mm
20.7 in.

Approximate shipping weight, Open;Cab

20,856 kg
45,980 lb

Weight

Base machine weight

20,856 kg
45,980 lb

Maximum ballast level

27,216 kg
60,000 lb

Capacities

Crankcase oil volume

64 L
16.9 U.S. gal.

Fuel tank

1514 L
400 U.S. gal.

Diesel exhaust fluid (DEF) tank

120 L
31.7 U.S. gal.

Cooling system

56.5 L
14.9 U.S. gal.

Transmission-hydraulic system

With 3-point hitch and PTO: 227 L
60 U.S. gal.
Without 3-point hitch and PTO: 220 L
58 U.S. gal.

Serviceability

Interval for engine oil change

500 hours

Interval for
• • • • • • • • • •

1500 hours

Interval for engine coolant
•

6000 hours

Precision AG

Guidance

Integrated AutoTrac™

Telematic

Available with JDLink™ hardware, activations, and Ethernet harnesses (availability dependent upon destination)

Remote diagnostics

Available with activated JDLink hardware and activations

Miscellaneous

Country of manufacture

USA

Additional information

Date collected

1 March 2021

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Accessories and Attachments

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Cab Operator's Station

- + Accessory Mounting Bracket - 9320RWRE343680
- + Cell Phone Mount Kit - 9320RWBRE10015
- + Clamp Style Mount - 9320RWAXE59372
- + CommandARM™ Bracket - 9320RWBRE10501
- + Fire Extinguisher, Wheel and 4 Track - 9320RWBRE10242
- + Floor insulation - 9320RWBRE10202
- + Foot rests - 9320RWBRE10458
- + Foot-Operated Speed Control - 9320RWBRE10440
- + Hook, Harness Routing - 9320RWR562310

- + Leather Wrapped Steering Wheel - 9320RWRE584990
- + RAM 1 inch T-slot Ball Mount - 9320RWBRE10482
- + RAM 1.5 inch T-slot Ball Mount - 9320RWBRE10483
- + Refrigerator - 9320RWRE593672
- + Right Window Mounting Bracket and Rail - 9320RWBRE10465
- + Secondary Hitch Controls - 9320RWBRE10437
- + Self - Leveling Cup Holder - 9320RWBRE10152
- + Short Vertical Mounting Rail - 9320RWBRE10464
- + StarFire 6000 Locking Bracket - 9320RWBPF11074
- + Storage Container with Lid/Ash Tray - 9320RWRE275532
- + Sunshade - 9320RWRE593670
- + Tablet Mount Kit - 9320RWBRE10255

Connectivity Hardware

- + Front Implement CAN Communication Connector - 9320RWRE344751
- + ISO Cab Implement CAN Bus Adapter - 9320RWRE322780
- + Mounting Bracket, Universal StarFire™ - 9320RWRE588540
- + RTK Bracket Kit - 9320RWBRE10512

DISPLAY HARDWARE

-
- + Display Harness - GS2 / GS3 Display with Video to GreenStar™ (Round) Cornerpost 762 mm (30 in.) - 9320RWFPF12435
-
- + Ethernet Adapter Cable (Square to Round) 800 mm (2.5 ft) - 9320RWFPF12950
-
- + GreenStar™/Gen4 - 254 mm (10 in.) Display Touch Panel Protector Service Kit - 9320RWPF90596
-
- + Harness - Original GreenStar™ Display and Mobile Processor to GreenStar™ 3 or GreenStar™ 2 (Round) Cornerpost - 9320RWPF90686
-

Drawbar

-
- + Drawbar, Ball-type 80 mm, Category 4 - 9320RWRE283958
-
- + Scraper Hose Support - 9320RWBRE10164
-

Electrical

-
- + 3-pin octagonal to 3-pin round convenience outlet (flat pins) single device adapter - 9320RWRE596959
-
- + 6-outlet octagonal powerstrip with pre-installed round convenience outlet (flat pins) - 9320RWRE596958
-
- + 9-Pin Connector for Implement Feedback - 9320RWRE67685
-
- + Electrical Connector Assembly, Power Inverter Kit 120VAC/60HZ 300 Watt - 9320RWBRE10452
-
- + Harness adapter for CB power connection - 9320RWRE597710
-

Hydraulic Selective Control Valves (SCVs)

+ 3/4 In. Selective Control Valve Coupler Kit (Hi-Flow only) - 9320RWBRE10107

+ 3/4 Inch Coupler Adapter Conversion - 9320RWBRE10486

+ 5th and 6th Scraper High Flow Remote Cylinder Selective Control Valve with Breakaway Couplers - 9320RWBRE10109

+ Add 5th or 6th Remote Selective Control Valves - 9320RWBRE10168

Hydraulics

+ Hitch Auxiliary Raise Kit DR - 9320RWBRE10203

+ Motor Case Drain Kit, DR Wheel - 9320RWBRE10113

+ Power Beyond Coupler Kit 1/2 In. - 9320RWBRE10110

+ Power Beyond Coupler Kit 3/4 In. - 9320RWBRE10111

Lighting

+ LED Rear Light Kit - 9320RWBRE10446

+ LED Roof Mounted Light Kit - 9320RWBRE10445

Mirrors

+ External Mirrors Conversion Kit, Electrically Adjustable (Wide Angle) - 9320RWBRE10477

+ Rear View Mirror (Internal) - 9320RWRE588734

Radio

-
- + Auxiliary Camera Input Kit for Touch Screen Radio - 9320RWBRE10502
-
- + Subwoofer and Tweeter Kit - 9320RWBRE10451
-
- + Touchscreen Radio Relocation kit (Alternative Mount) - 9320RWBRE10364
-

Rear Hitch

-
- + Category 4N/3 Quik Coupler Kit - 9320RWRE270270
-
- + Category 5 to Category 4 Drawbar Conversion Kit - 9320RWRE278847
-
- + Center Hook for Quick 3-Point Hitch (Category 4N/3) - 9320RWR242057
-
- + Electro-Hydraulic 3 Point Hitch, DR for wheel and 4 Track Tractors - 9320RWBRE10160
-
- + Rear Hitch Heavy Duty Greaseable Pin Kit - 9320RWBRE10332
-

Transmission

-
- + Back Up Alarm Kit - 9320RWRE273380
-
- + Mounting Kit - Dual Beam Radar Sensor, Wheels - 9320RWRE269592
-
- + Radar with Dual Beam Sensor - NA - 9320RWRE278980
-

Weights

-
- + Center Link Bracket for Monoblock - 9320RWBL15085
-

- + Pick Up Weight 1500 kg (3307 lb) Monoblock - 9320RWBL15020
- + Pick Up Weight 900 kg (1984 lb) Monoblock - 9320RWBL15083
- + Weight, front suitcase 43 kg (95 lb) quantity of one - 9320RWR127764

Wheel Weights

- + Starter Weight, Wheel, 72 kg (159 lb) - 9320RWR167153
- + Weight, Wheel 205 kg (452 lb) - 9320RWR207782
- + Weight, Wheel 625 kg (1378 lb) - 9320RWR553540
- + Weight, Wheel Kit 2x205 kg (2x452 lb) - 9320RWBL15076
- + Weight, Wheel Kit 2x205 kg (Weights), 2x72 kg (Adapter Weights) - 9320RWBL15071

Wheels and Hubs

- + Rear Dual Hub Extension, 127 mm (5 in.) - 9320RWAR194744
- + Rear Dual Hub Extension, 254 mm (10 in.) - 9320RWAR190666
- + Rear Dual Hub Extension, 330 mm (13 in.) - 9320RWAR190668
- + Rear Dual Hub Extension, 381 mm (15 in.) - 9320RWAR190669

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