

RESOLUTION NO. 20-1372

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF
BLACK DIAMOND, KING COUNTY, WASHINGTON
AUTHORIZING THE PURCHASE OF A NEW JOHN DEERE
LAWNMOWER FOR PUBLIC WORKS

WHEREAS, the Public Works Department requires a new riding lawnmower to replace failing equipment; and

WHEREAS, the 2020 Public Works budget includes \$17,000 for a new lawnmower and appurtenances; and

WHEREAS, Public Works staff obtained a quote from State Bid through Washington Tractor in Sumner, Washington in the amount of \$11,362.12 before tax;

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF BLACK DIAMOND, WASHINGTON, DOES RESOLVE AS FOLLOWS:

Section 1. Pursuant to previously budgeted purchasing authority, the Public Works department is authorized to purchase the new 2020 John Deere Z915E ZTrak Mower and Collection System identified in the attached quote.

Section 2. The mower shall be paid for with money from the Public Works General Equipment Replacement Fund for the mower and appurtenances not exceeding \$17,000.

PASSED BY THE CITY COUNCIL OF THE CITY OF BLACK DIAMOND, WASHINGTON, AT A REGULAR MEETING THEREOF, THIS 6TH DAY OF AUGUST, 2020.

CITY OF BLACK DIAMOND:



Carol Benson, Mayor

Attest:



Brenda L. Martinez, City Clerk



JOHN DEERE

YOUR CONTRACT. YOUR QUOTE. YOUR HELP REQUESTED.

**Ensure your equipment arrives with no delay.
Issue your Purchase Order or Letter of Intent.**

To expedite the ordering process, please include the following information in Purchase Order or Letter of Intent:

For any questions, please contact:

- Shipping address
- Billing address
- Vendor: John Deere Company
- 2000 John Deere Run Cary,
NC 27513
- Contract name and/or number
- Signature
- Tax exempt certificate, if applicable

Scott-s0416 Nordeen

Washington Tractor, Inc.
2700 136th Ave Ct E
Sumner, WA 98390

Tel: 253-863-4436

Fax: 253-863-1523

Email: snordeen@washingtontractor.com

The John Deere Government Sales Team

Quote Summary

Prepared For:
 CITY OF BLACK DIAMOND
 PO BOX 599
 BLACK DIAMOND, WA 98010
 Business: 360-886-2560

Prepared By:
 Washington Tractor, Inc.
 Scott-s0416 Nordeen
 Washington Tractor, Inc.
 2700 136th Ave Ct E
 Sumner, WA 98390
 Phone: 253-863-4436
 snordeen@washingtontractor.com

Quote Id: 22301661
Created On: 07 July 2020
Last Modified On: 07 July 2020
Expiration Date: 31 July 2020

Equipment Summary	Selling Price	Qty	=	Extended
JOHN DEERE Z915E ZTrak Contract: Price Effective Date:	\$ 8,400.51	1	=	\$ 8,400.51
JOHN DEERE MCS 3-bag, 12 Bushel Material Collection System Contract: Price Effective Date:	\$ 2,961.61	1	=	\$ 2,961.61
Equipment Total				\$ 11,362.12

* Includes Fees and Non-contract items

Quote Summary	
Equipment Total	\$ 11,362.12
SubTotal	\$ 11,362.12
Sales Tax - (9.30%)	\$ 1,056.68
Est. Service Agreement Tax	\$ 0.00
Total	\$ 12,418.80
Down Payment	(0.00)
Rental Applied	(0.00)
Balance Due	\$ 12,418.80

Salesperson : X _____

Accepted By : X _____



JOHN DEERE

Selling Equipment

Quote Id: 22301661 Customer Name: CITY OF BLACK DIAMOND

JOHN DEERE Z915E ZTrak

Equipment Notes:

Hours:

Stock Number:

Selling Price *

Contract:

\$ 8,400.51

Price Effective Date :

* Price per item - includes Fees and Non-contract items

Code	Description	Qty	List Price	Discount%	Discount Amount	Contract Price	Extended Contract Price
2501TC	Z915E ZTrak	1	\$ 9,099.00	21.50	\$ 1,956.29	\$ 7,142.71	\$ 7,142.71
Standard Options - Per Unit							
001A	United States/Canada	1	\$ 0.00	21.50	\$ 0.00	\$ 0.00	\$ 0.00
1038	24x12N12 Michelin X Tweel Turf for 54 In. and 60 In. Decks	1	\$ 949.00	21.50	\$ 204.04	\$ 744.96	\$ 744.96
1502	54 In. Side Discharge Mower Deck	1	\$ 270.00	21.50	\$ 58.05	\$ 211.95	\$ 211.95
2092	Deluxe Comfort Seat with Armrests and Isolation (24" High Back)	1	\$ 195.00	21.50	\$ 41.93	\$ 153.07	\$ 153.07
Standard Options Total			\$ 1,414.00		\$ 304.02	\$ 1,109.98	\$ 1,109.98
Dealer Attachments/Non-Contract/Open Market							
BTC10442	Rear Anti-Scalp Wheel Kit (1371.6-mm (54-in.) Deck)	1	\$ 188.31	21.50	\$ 40.49	\$ 147.82	\$ 147.82
Dealer Attachments Total			\$ 188.31		\$ 40.49	\$ 147.82	\$ 147.82
Value Added Services Total			\$ 0.00			\$ 0.00	\$ 0.00
Total Selling Price			\$ 10,701.31		\$ 2,300.80	\$ 8,400.51	\$ 8,400.51

JOHN DEERE MCS 3-bag, 12 Bushel Material Collection System

Equipment Notes:

Hours:

Stock Number:

Selling Price *

Contract:

\$ 2,961.61

Price Effective Date :

* Price per item - includes Fees and Non-contract items



JOHN DEERE

Selling Equipment

Quote Id: 22301661 Customer Name: CITY OF BLACK DIAMOND

Code	Description	Qty	List Price	Discount%	Discount Amount	Contract Price	Extended Contract Price
0789TC	MCS 3-bag, 12 Bushel Material Collection System	1	\$ 3,249.00	21.50	\$ 698.54	\$ 2,550.46	\$ 2,550.46
Standard Options - Per Unit							
001A	United States and Canada	1	\$ 0.00	21.50	\$ 0.00	\$ 0.00	\$ 0.00
2900	Blower, Weight Bracket, and Mounting Frame Kit	1	\$ 0.00	21.50	\$ 0.00	\$ 0.00	\$ 0.00
3542	Boot Kit 48 In. (121cm) & 54 In. (137cm) Side Discharge	1	\$ 0.00	21.50	\$ 0.00	\$ 0.00	\$ 0.00
Standard Options Total			\$ 0.00		\$ 0.00	\$ 0.00	\$ 0.00
Dealer Attachments/Non-Contract/Open Market							
UC13263	Quik-Tatch Weight, 42 lb (19 kg)	5	\$ 67.09	21.50	\$ 14.42	\$ 263.33	\$ 263.33
BTC10442	Rear Anti-Scalp Wheel Kit (1371.6-mm (54-in.) Deck)	1	\$ 188.31	21.50	\$ 40.49	\$ 147.82	\$ 147.82
Dealer Attachments Total			\$ 523.76		\$ 112.61	\$ 411.15	\$ 411.15
Total Selling Price			\$ 3,772.76		\$ 811.15	\$ 2,961.61	\$ 2,961.61

Quote ID :22301661 Customer Name : CITY OF BLACK DIAMOND

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2020 JOHN DEERE Z915E ZTrak

Key Features

Mower is easy to service with many accessible components

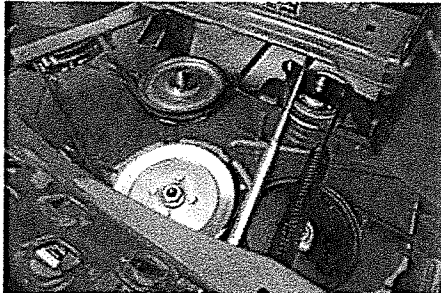


Z955R EFI left front view

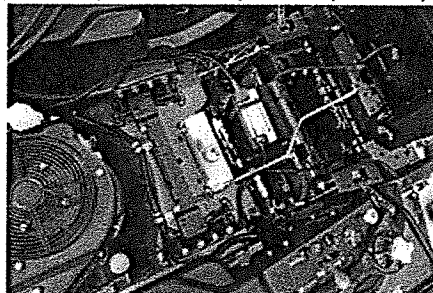
The design of the Z900 Series makes many service components reachable and easily accessible from the ground.

- Large, open engine compartment at the rear of the machine provides convenient servicing and ensures the engine heat is directed away from the operator.

Base Equipment On: Z915E, Z920M, Z930M, Z945M EFI, Z950M, Z955M EFI, Z960M, Z930R, Z950R, Z955R EFI, Z970R



Flip-up foot panel

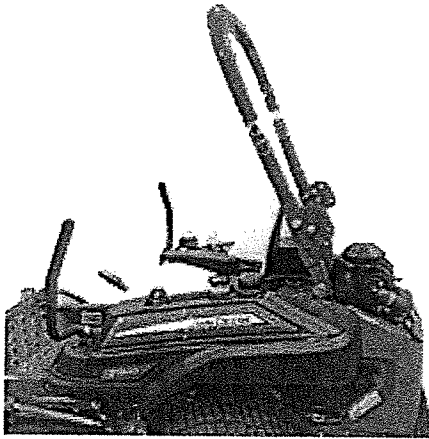


Flip-up seat

Base Equipment On: Z915E, Z920M, Z930M, Z945M EFI, Z950M, Z955M EFI, Z960M, Z930R, Z950R, Z955R EFI, Z970R
Onboard maintenance chart

All ZTrak™ Mowers come with an onboard maintenance chart that is conveniently located inside the right-hand console. The service interval chart gives necessary service intervals.

Quote ID :22301661 Customer Name : CITY OF BLACK DIAMOND



ROPS up



ROPS mid position



ROPS down position

Base Equipment On: Z915E, Z920M, Z930M, Z945M EFI, Z950M, Z955M EFI, Z960M, Z930R, Z950R, Z955R EFI, Z970R

Key Features

Heavy-duty frame provides strength and durability

The durability features of the frame are as follows:

- Heavy-duty, thick-gauge, steel channel mainframe for strength and durability
- Cast I-beam caster arms to handle the beating and pounding professional mowers receive
- Wide-open access for maintenance and cleaning



Z955R EFI model shown
with optional X® Tweel® Turf
airless radial tire technology

Base Equipment On: Z915E, Z920M, Z930M, Z945M EFI, Z950M, Z955M EFI, Z960M, Z930R, Z950R, Z955R EFI, Z970R

Two-piece rear bumper provides protection

A steel rear bumper provides protection for the machine. The bumper is made of two pieces, making it easy to remove and install when using a material collection system (MCS).

A rear hitch can be added to the steel bumper for towing purposes. ZTrak E, M, and R Series Mowers can tow up to 400 lb (181.4 kg).

Quote ID :22301661 Customer Name : CITY OF BLACK DIAMOND

Michelin, X, and Tweel are trademarks of Michelin North America, Inc.

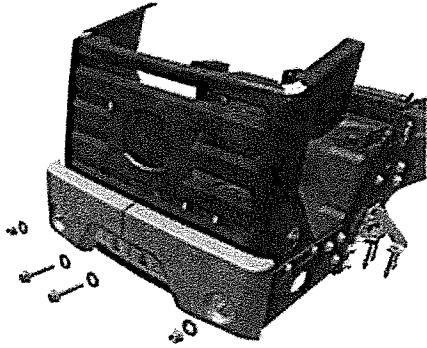
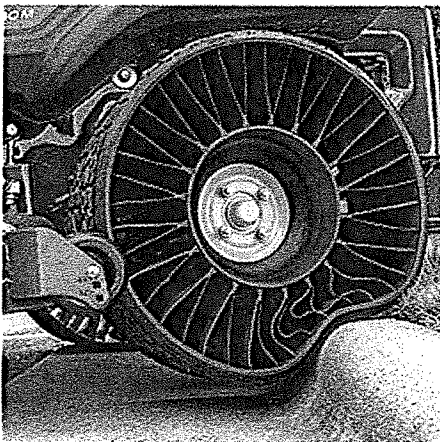


Illustration of ZTrak™
mower rear bumper

Base Equipment On: Z915E, Z920M, Z930M, Z945M EFI, Z950M, Z955M EFI, Z960M, Z930R, Z950R, Z955R EFI, Z970R

Key Features

**Michelin® X® Tweel® Turf airless radial tire technology for ZTrak™
Mowers eliminates downtime and reduces cost of operation**



Flat-free rear tire shown on ZTrak Mower

John Deere provides the commercial mower industry with the Michelin X Tweel Turf technology for Commercial ZTrak Mowers:

- 24x12N12 as an ordering option code for ZTrak Gas Mowers with 54 in., 60 in., and 72 in. (137-cm, 152-cm, and 183-cm) Mower Decks
- 24x12N12 is also available as base code equipment for ZTrak Gas Mowers with 54 in., 60 in., and 72 in. (137-cm, 152-cm, and 183-cm) Mower Decks (ordering information available at Configurator on the Tweel model page)
- 24x12N12 as an ordering option code for ZTrak Z994R Diesel with 54 in., 60 in., and 72 in. (137-cm, 152-cm, and 183 cm) Mower Decks
- 26x12N12 as an ordering option code for Z997R Diesel with 60 in. and 72 in. (152-cm and 183-cm) Mower Decks

Michelin is a world leader in tire manufacturing and technology. This airless radial tire solution is an industry first for John Deere, which provides an additional advantage to John Deere customers.

Advantages of the Michelin X Tweel Turf include:

- Mowing performance is improved.
 - Rutting is reduced because the Michelin X Tweel Turf has more support across the surface for improved flotation and better ground contact.
 - Unique energy transfer within the poly-resin spokes reduces the bounce associated with pneumatic tires.
 - Excellent curb climbing is possible due to the Michelin X Tweel Turf construction and flexibility.
 - More consistent cut quality is achieved because inconsistent tire pressure is eliminated.
- Uptime is improved.
 - The exclusive technology eliminates downtime and associated cost due to flat or damaged tires.
 - Punctures and sidewall damage no longer result in downtime.

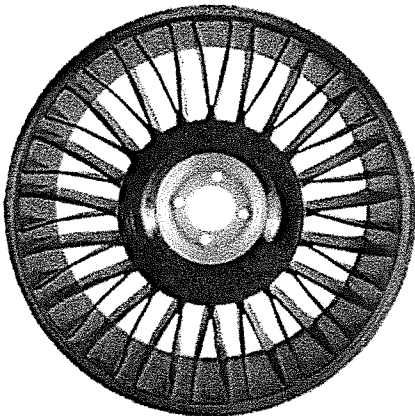
Quote ID :22301661 Customer Name : CITY OF BLACK DIAMOND

- Cost of operation is reduced.
- Cost of repairs and maintenance is reduced. One single unit replaces the current tire, wheel, and valve assembly. There is no need for complex tire-mounting equipment.
- No need to spend time checking and optimizing tire pressure.
- The need to purchase and stock plug kits and spare tires is eliminated, particularly for professional landscape contractors and government agencies who normally stock them.
- The tire tread will last up to three times longer than current pneumatic tires because automotive-grade rubber is used for the tread.

Heavy-duty construction provides the ultimate in performance and reliable operation:

- High-strength poly-resin spokes carry the load.
- Four-hole, heavy-duty steel hub for durability.
- Deep, open-tread design provides excellent cleaning and traction.
- Zero degree, high-tensile proprietary carcass provides great lateral stiffness while resisting damage from impact and penetration.

NOTE: In some cases, different size Tweel tires are required depending on the mower deck size.



Michelin X Tweel Turf



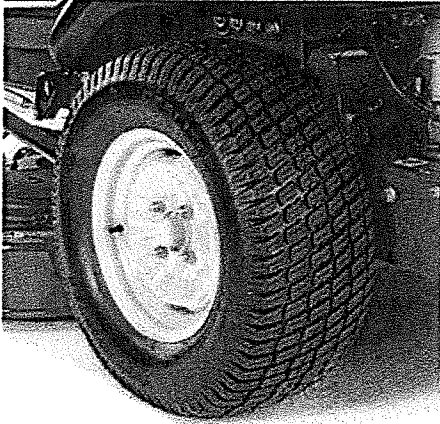
Michelin X Tweel Turf

Tires deliver exceptional traction and maneuverability

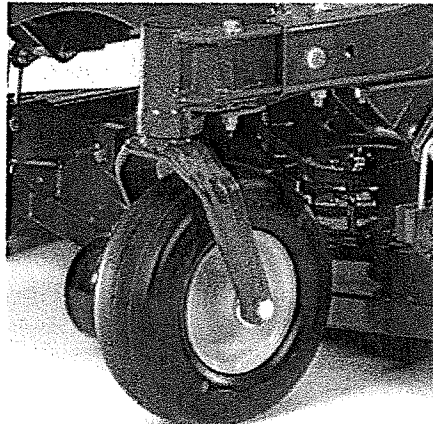
The ZTrak E Series Mowers with 48-in. (122-cm) mower decks come with 24x9.5-12 4 PR drive tires. E Series Mowers with 54-in. (137-cm) and 60-in. (152-cm) decks come with 24x12-12 4 PR drive tires. All E Series Mowers are equipped with 13x6.5-6 front pneumatic caster tires for the following:

- Excellent traction, flotation, and curb climbing
 - Low center of gravity to increase hillside mowing capability
 - Caster wheels and caster wheel towers with sealed bearings for long life and easy steering
 - Offset front caster wheels to help improve the inside corner-trim performance and reduce between-blade striping
- Michelin, X, and Tweel are trademarks of Michelin North America, Inc.

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Drive tire



Front caster tire

Key Features

Powerful 25.0-hp (18.6-kW) commercial-grade engine delivers class-leading performance and efficiency

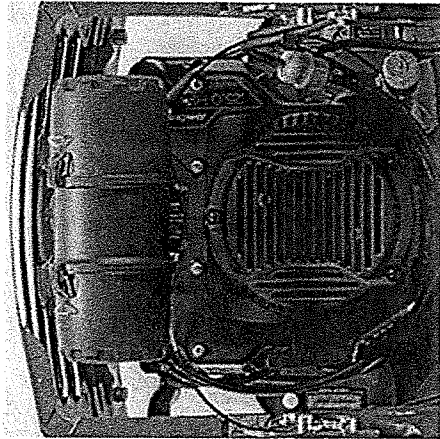
The Z915E is powered by an air-cooled, vertical shaft engine:

- 25.0-hp (18.6-kW) gas engine

Engine features include:

- Overhead valve design
 - More horsepower and torque per cubic inch of displacement
 - Fuel efficient design
- Full-pressure lubrication with full-flow filter
 - Reduces engine wear by ensuring proper lubrication, even when operating on hillsides or uneven terrain
 - Oil filter helps keep oil clean for increased engine life
- V-twin big block design
- Vertical shaft
- Easy-access, dual-element air filter with quick-release latch
- 15-amp alternator
- Fuel pump
- Complies with strict Environment Protection Agency (EPA) and California Air Resources Board (CARB) emission standards without loss of horsepower or torque
- Aluminum block engines
 - Effectively dissipate heat
 - Lightweight and strong construction
 - Extend engine life due to elimination of debilitating engine temperatures
- Air-cooled engine design

Quote ID :22301661Customer Name : CITY OF BLACK DIAMOND



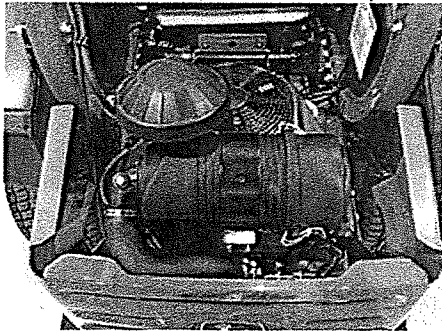
Z915E engine

Base Equipment On: Z915E

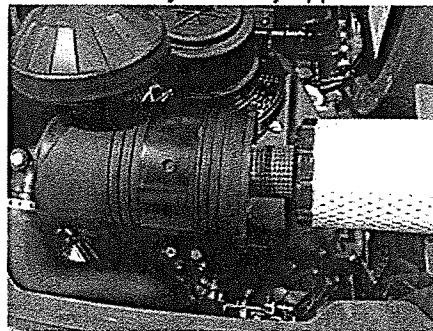
Air cleaner filters out dust that can damage an engine

ZTrak™ Z900 Mowers are equipped with a dual-element, canister-style air filter, easily accessible from the rear of the machine without tools.

- The filtration system pulls clean air from above the engine, in turn filtering out the dust that can damage an engine over time.
- Filters are extremely easy to change when required.
- Pre-cleaner provides more protection against contamination in dusty and dirty applications.



Engine air cleaner



Air cleaner cover removed

Base Equipment On: Z915E

Mow all day on a single tank of fuel with efficient and easy-to-fill fuel tank

The ZTrak Z900 Mowers are equipped with one single-fill, top-draw fuel tank:

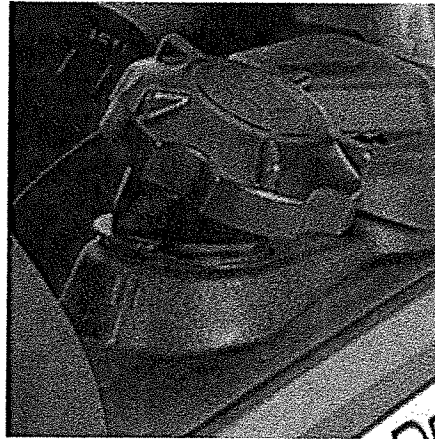
- 11.5-U.S. gal. (43.5-L) capacity enables operators to mow all day without refueling.
- The fuel gauge makes it quick and easy to see how much fuel is in the tank.
- Top draw provides added safety.
- A large fuel-filler neck is angled to make it easy for an operator to complete the fueling process.

Under normal conditions, load, and operation, fuel consumption for the Z900 ZTrak Mowers is 1.5 U.S. gph (5.7 L/hr) to 2.2 U.S. gph (8.3 L/hr), depending on the horsepower and conditions.

Quote ID :22301661 Customer Name : CITY OF BLACK DIAMOND



Fuel tank and filler neck



Fuel filler neck

Base Equipment On: Z915E

Product Specification Details :

Manufacturer Model

John Deere Z915E (Model year 2020)

Engine

Manufacturer/Model
Power
Displacement
Cylinders
Crankcase capacity
Oil filter
Lubrication
Cooling
Air cleaner
Pre-cleaner

CV742
At 3,600 rpm, 25
45.6
Two
With filter, 2
Full flow, replaceable
Full pressure
Air
Heavy-duty canister type with safety element
Yes

Fuel system

Fuel type
Fuel consumption

Fuel tank capacity
Fuel tank switch/shut-off valve

Gasoline
Under normal conditions, load, operation, and dependent on loads and operating conditions
1.1-1.9
11.5
Yes

Electrical system

Charge system
Battery voltage
Cold cranking amp
Hour meter
Operator presence starting system

15
12
300
Standard, digital
Brake-N-Go (hand)

Drivetrain

Transmission
Hydraulic pumps
Wheel motors

Travel speed
Forward
Forward
Reverse
Reverse
Speed range
Speed range
Speed and direction control
Hydraulic capacity
Hydraulic oil cooler
Filter

Hydrostatic
—
Tuff Torq heavy-duty integrated piston wheel motor
—
0-10
0-16.1
0-4.5
0-7.2
0-10
0-16.1
Twin levers
5.9
—
Internal, replaceable

Tires

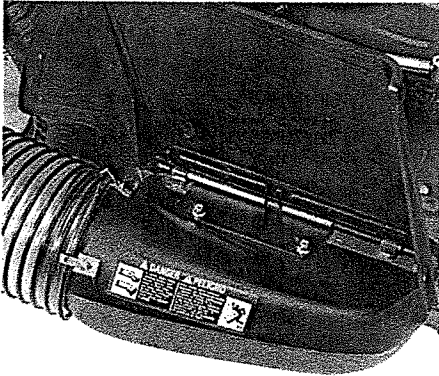
Quote ID :22301661 Customer Name : CITY OF BLACK DIAMOND

Drive wheels	24x9.5-12 (48 in.), 24x12-12 (54 in., 60 in.)
Rear tires	---
Load rating	4 PR
Brakes	
Dynamic braking	Twin levers
Park brake	Internal wet disk integrated in the transmission
Park brake actuation	Hand brake
PTO	
Type	Electro-magnetic, 200
Drive	V-belt
Mower decks	
Size	48, 54, 60
Deck construction	One-piece stamped steel with reinforcements
Deck thickness	7
Discharge	Side
Height-of-cut range	1-5.5
Increments	0.25
Increments	0.64
Cutting width	48, 54, 60
Blades	
Length	Varies by deck size
Thickness	0.25
Blade tip speed	Approximately 18,000
Number	Three
Wheels	
Caster wheel type	Pneumatic Front
Caster wheels	13x5-6
Front anti-scalp rollers	RH, center, LH
Rear anti-scalp rollers	Optional
Dimensions	
Length	84
Width	With chute down, 62, 68, 74
Height	With ROPS up, 73
Weight	1,100 to 1,178
Buyer's note	
Warranty	36 months or 1200 hours, whichever comes first
Key Specs	
Engine Manufacturer/model	CV742
Engine Power	Gross at 3,600 rpm: 25
Fuel tank capacity	11.5
Mower deck Size	48, 54, 60
Blade tip speed	Approximately 18,000
Transmission	Hydrostatic
Speed range	0-10
Drive wheels	24x9.5-12 (48 in.), 24x12-12 (54 in., 60 in.)
Caster wheels	13x5-6
Warranty	36 months or 1200 hours, whichever comes first
Additional information	
Date collected	11-Sep-2018

2020 JOHN DEERE MCS 3-bag, 12 Bushel Material Collection System

Key Features

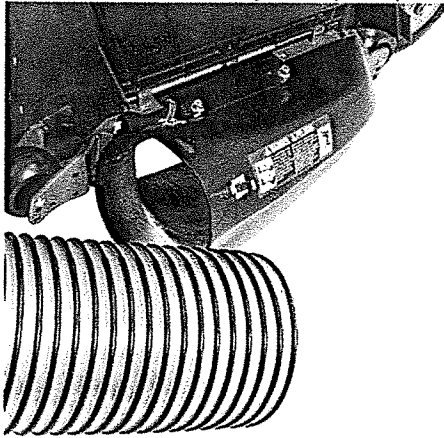
Efficiently guide material from mower to blower through a heavy-duty, contoured boot



Efficiently transfer material from the mower deck to the blower suction hose with the contoured boot:

- Cast from aluminum
 - Material flows smoothly through the contoured surface.
 - Minimize chance of clogging the discharge chute
- Maintain quality cut with lightweight aluminum material for minimal effect on mower deck level.
- Experience reliable operation with strong, durable material designed for long, trouble-free life.
- Three mower boots are available:
 - One for the 48-in. and 54-in. (122-cm and 137-cm) Side-Discharge Mower Decks
 - One for the 60-in. and 72-in. (152-cm and 183-cm) Side-Discharge Mower Decks
 - One for 48-in., 54-in., and 60-in. (122-cm, 137-cm, and 152-cm) Mulch On Demand™ Mower Decks

Material collection system (MCS) boot



- Tool-free removal of the suction hose from the blower and the mower deck boot:
- Easy for the operator to change from collecting to side-discharging material.
- Snap fasteners allow quick removal of the suction hose.
- For side discharging material, the boot is easily removed by lifting it and sliding the lip on the boot attaching plate from under the mower deflector attaching rod.
- The boot can remain in place when switching from collecting to mulching with the Mulch On Demand deck.

Hose removed from MCS boot

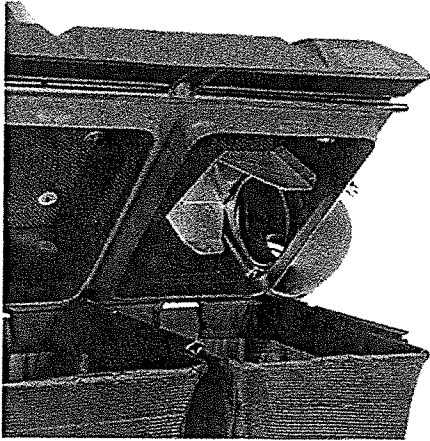
Key Features

Effectively fill three large, easy-to-empty bags

A large air vent across the rear edge of the hopper top reduces air restriction, which increases suction of the blower unit:

- Vent also forces air down and back to reduce noise and keep dust away from the operator.
- Finely chopped material produced by the welded-steel blower fan is directed into the hopper by an aluminum deflector at the inlet.
- Bags fill fully from left to right with material chopped into fine particles by the powerful blower.

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Hopper rear air vent and metal deflector

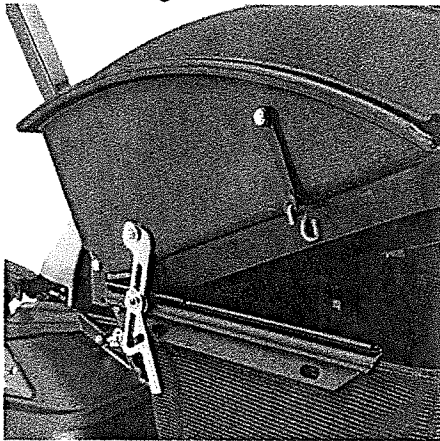


Bags fill with finely chopped material

Easy bag emptying

The hopper top is easy to open for emptying the bags:

- The hopper top is securely held down by bungee cords on each side, which are easy to release for raising the hopper top to empty the bags.
- For operator safety and convenience when emptying the bags, the hopper top is held in the raised position with a convenient, self-locking latch on the left side.

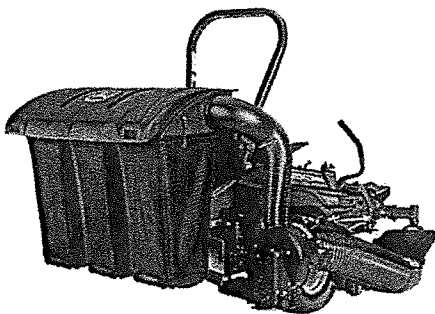


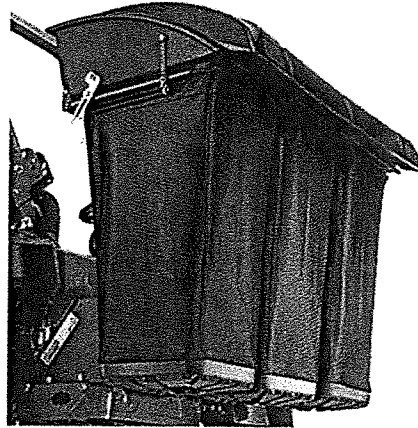
Three-bag MCS hopper top partially open



Hopper top latched in the fully open position

This three-bag, 12-bu (423-L) material collection system (MCS) provides John Deere ZTrak™ mower owners with a durable product for collecting grass clippings and leaves. You can increase productivity by utilizing this efficient collection system, which allows fast, easy grass clipping and leaf collection to give lawns a well-groomed appearance.





Three-bag MCS hopper left rear view

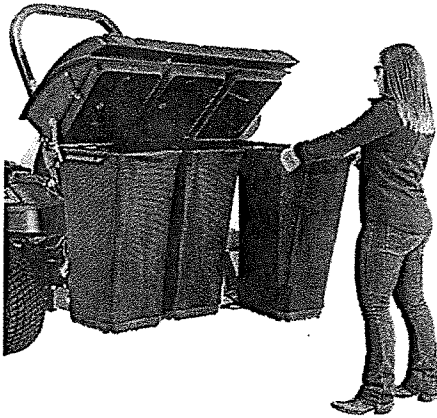
Three-bag MCS system right rear view

The hopper is easily emptied by removing the three individual bags:

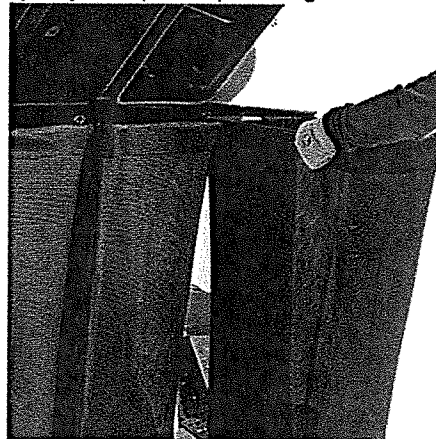
- Bags slide out without unlatching or lifting.
- Bags are held securely in place by the hopper top when it is closed.

Extra durability is designed into the bags so they will hold up under commercial mowing use:

- Bags are made from 12-oz polyurethane material.
- The bottom of each bag is made from high-density polyethylene (HDPE) for long life.



Hopper top in fully open position for bag removal



Removing one of the bags from hopper

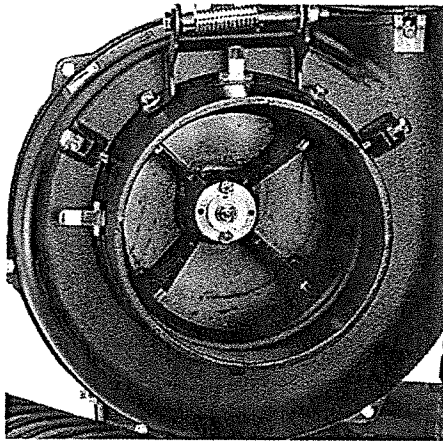
Key Features

Completely fill bags with steel blower fan that finely chops and compacts material

A four-blade, heavy-duty welded steel fan provides optimum performance and durability:

- Steel edges of the blower fan chop material into fine particles, which give a more efficient and complete fill of the bags from left to right.
- Smaller particles pack more tightly for increased bag capacity.
- Efficient lawn cleanup with large, 11.75-in. (30-cm) diameter fan for plenty of suction to move material from the mower deck to the hopper.
- The blower housing is cast from strong, lightweight aluminum for durability, long life, and easy handling.

Quote ID :22301661Customer Name : CITY OF BLACK DIAMOND



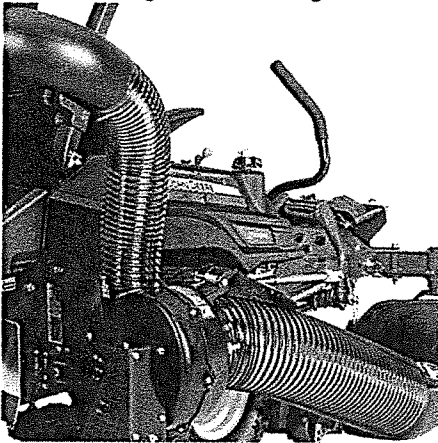
Suction hose removed to show steel blower fan



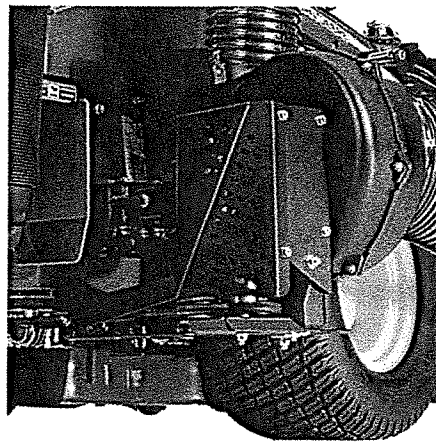
Bags fill with finely chopped material

The blower assembly is located behind the vehicle's right rear tire:

- A short, direct path for the clippings to move from the mower to the blower and from the blower to the hopper
- More uptime and efficiency with less chance of clogging
- Greater productivity with increased performance and uptime
 - Fewer stops to dump the bags or clean out the material collection system (MCS)
- Efficient V-belt and right-angle gearbox drive the four-blade, steel, commercial-grade fan
 - Power to the fan is controlled by an electric switch/power take-off clutch.
 - For convenience, when the blower switch is in the on position, the blower will run when the mower deck does.
 - The blower will not operate when the mower drive is disengaged.
- Mulch On Demand™ deck is compatible with the three-bag material collection system, and it is easy to switch between mulching and collecting.



Rear view of blower and hoses

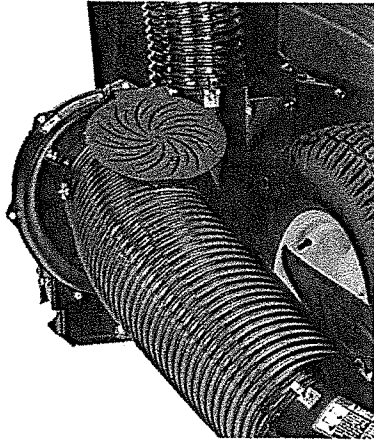


Rear view of blower drive

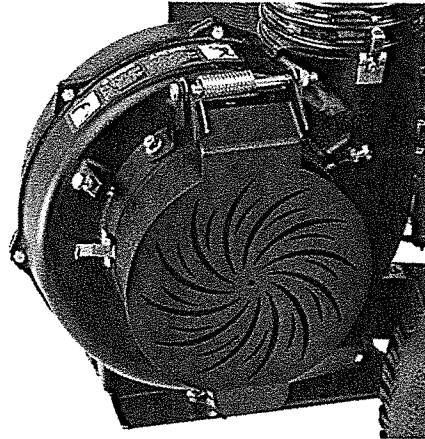
The suction hose efficiently moves material from the mower boot to the blower:

- Handle large amounts of material with high-capacity, 9-in. (23-cm) diameter hose.
 - Efficiently move material with little chance of clogging through the short, straight suction hose.
- A spring-loaded guard covers the opening to the fan when the suction hose is removed from blower.

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Boot-to-blower suction hose



Fan guard closed with hose removed

Product Specification Details :

Manufacturer Model

**John Deere Three-bag, 12-bu (423-L) MCS
for Gas Z900 Series ZTrak™ Commercial
Mowers**

Key Specs

Hopper capacity

12

Hopper top material

LLPE

Bag material

300 Denier polyester with dust prevention
side using 420 Denier high-density nylon
packcloth, DWR urethane coated

Blower fan diameter

11.75

Blower fan material

Welded steel

Hopper

Capacity

12

Filling

Directly into three bags (with or without
plastic liners)

Hopper top material

LLPE

Bag material

300 Denier polyester with dust prevention
side using 420 Denier high-density nylon
packcloth, DWR urethane coated

Bag bottom material

HDPE

Blower and fan

Fan diameter

11.75

Fan width

4.75

Number of fan blades

Four

Fan drive

Power take-off (PTO) drive controlled by
electric clutch

Fan speed

3600

Fan material

Welded steel

Blower housing material

Cast aluminum

Chute diameter

—

Ballast requirements

Upper suitcase weights

—

Compatibility

Models compatibility with

—

Dimensions for 997 MCS

Overall length

—

Height

—

Width

—

Weight for 997 MCS

Empty hopper weight

—

997 Machine weight

—

Hoses

Material

Polyurethane with rigid external ABS helix
wearstrip

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Wall thickness	6- to 8-in. (15- to 20-cm) diameter hose: 0.035
Diameter - boot-to-blower hose	9
Diameter - blower-to-hopper hose	6
Fasteners	Snap fasteners: At mower boot and blower connections
Mower boot	
Material	Cast aluminum
Outlet diameter	9
Hose connection	Snap fasteners
Attachment to mower	Boot plate, two carriage bolts, and two Nylock nuts
Hopper dimensions	
Width	26.9
Length	59.9
Height	41.7
Dimensions, including vehicle	
Width, 48-in. (122-cm) Mower and boot	63.6
Width, 54-in. (137-cm) Mower and boot	69.1
Width, 60-in. (152-cm) Mower and boot	75.6
Width, 72-in. (183-cm) Mower and boot	87.7
Length, with hopper and weight bracket, 48 in. (122 cm)	111.6
Length, with hopper and weight bracket, 54 in. (137 cm)	111.6
Length, with hopper and weight bracket, 60 in. (152 cm)	111.6
Length, with hopper and weight bracket, 72 in. (183 cm)	111.6
Weight, net (empty)	
3-bag hopper including bags	139
Boot - 48 in. (122 cm)/54 in. (137 cm)	13.4
Boot - 60 in. (152 cm)/72 in. (183 cm)	19.2
Boot - Mulch on Demand™ Mowers	24.9
Blower, weight bracket, and mounting frame	164
Attachment/removal time after initial installation:	
3-bag hopper	25
Blower	65
Boot	10
Additional information	
Date collected	—