

Model Year 2023: ZTrak™ Z320M Zero-Turn-Radius Mower

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Prepared On : Sep 01, 2022

Specifications

ZTrak Z320M-42A (Model year 2023)

KEY SPECS

Engine power	CE-Power and Speed (tested in accordance to SAE J1349), at 3000 rpm (±100): 12.7 kW
Engine model number	FR651V
Forward speed	0-11.3 km/h 0-7.0 mph
Front caster tires	11x6-5
Drive tires	18x8.50-8
Seat back height	Medium back with optional armrests, 51 cm 20 in.
Width of cut	107 cm 42 in.
Mulching system	Optional MulchControl™ system

ENGINE

Power	CE-Power and Speed (tested in accordance to SAE J1349), at 3000 rpm (±100): 12.7 kW
Engine hp is provided by engine manufacturer for comparison purposes. Actual operating hp will be less.	---
Model number	FR651V
Displacement	726 cc 44.3 cu in.
Cylinders	V-twin
Lubrication	Full pressure with replaceable filter, capacity 2.1 L 2.2 U.S. qt
Type	Overhead valve
Battery	12 V 300 CCA
Choke/speed control	Separate levers
Cooling method	Air
Fuel tank capacity	11.4 L 3.0 U.S. gal.
Fuel gauge	Translucent tank

DRIVE TRAIN

Dual hydros	Hydro-Gear EZT-C with 2.5-cm (1-in.) axles
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TRAVEL SPEED

Forward speed	0-11.3 km/h 0-7.0 mph
Reverse speed	0-5.6 km/h 0-3.5 mph
Speed and direction control	Twin levers
Control adjustment	3 height, 11 positions

CHASSIS

Frame	Heavy-duty 6-cm x 5-cm (2.5-in. x 2-in.) front, and 4-cm x 5-cm (1.5-in. x 2-in.) side tubing
Primer/paint	E-coat/powder
Front caster tires	11x6-5
Front caster bearings	Sealed ball bearings
Drive tires	18x8.5-8
Hour meter	Yes
Service interval decal	No
Storage compartment	Optional covered
Cup holder	Yes
Maximum towing capacity	113 kg 250 lb

SEAT

Seat back height	Medium back with optional armrests, 51 cm 20 in.
Fore-aft adjustment	7 cm 2.9 in.
Seat suspension	Two springs

LIFT SYSTEM

Type	Foot lift
Mower cut height	3-11 cm 1.25-4.5 in.
Cut height increments	0.64 cm 0.25 in.
Preset cut height	Yes

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MOWER DECK	
Width of cut	Accel Deep™ mower deck, 107 cm 42 in.
Type	Side discharge
Mower deck material	12 gauge 2.7 mm
Mower drive system	V-belt

POWER TAKE-OFF (PTO)	
Type	Electric, 142 Nm 105 lb-ft
Drive	V-belt

DIMENSIONS	
Wheelbase	1255 mm 49.4 in.
Overall length	1915 mm 75.4 in.
Width without mower	1100 mm 43.3 in.
Width with mower	1280 mm 50.4 in.
Width with mower (deflector raised for storage)	1180 mm 46.5 in.
Height	1100 mm 43.3 in.
Weight	255 kg 561 lb

OPERATION	
Rollover protective structure (ROPS)	No

OPERATION	
Slope operating limit	13 degrees; 10 degrees with Material Collection System
Operator presence system	Yes
Park brake interlock	Yes
Operator video	Yes, online

BUYER'S NOTES	
Note 1	Durable Accel Deep Mower Decks are made from 12-gauge steel with double captured mower wheels
Note 2	Easily change cut height from 3 to 11 cm (1.25 to 4.5 in.) using the foot lift and cutting height dial
Note 3	Integrated park brake is automatically applied when steering levers are stowed outward

OPTIONAL ATTACHMENTS	
Mulching system	Optional MulchControl attachment
Rubber floor mat	Optional
Mounted sprayer	Not available
Light kit	Optional
Material collection system	Two-bag cut-and-throw MCS, 230 L 6.5 bu

ADDITIONAL INFORMATION	
Manufacturing location	Greeneville, Tennessee, USA
Date collected	1-Sep-2022

Key features

Engine is smooth and powerful V-twin design



Engine

A 12.7-kW at 3000 rpm V-twin engine with 726-cc (44.2-cu in.) displacement provides plenty of power and torque to handle tough mulching, mowing, and bagging conditions:

- V-twin cylinder design for greater torque, lower vibration, and improved sound quality
- Engine model: FR651V engine
- Electronic ignition for fast starts
- Cast-iron cylinder liners for longer engine life
- Overhead valves for excellent power and fuel economy
- Spin-on oil filter with pressure lubrication for keeping the oil cleaner for long engine life and extended time between oil changes; pressure lubrication is also more effective when operating the tractor on an incline
- Easy access to the no-tools oil drain valve for oil changes
- Rear engine guard for protecting the engine and providing additional strength and integrity



Engine oil check/fill tube and oil-drain tube



Replaceable oil filter

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Replaceable fuel filter and oil filter are easy to access and change to minimize service time and cost.

John Deere recommends the use of fuel stabilizer in gasoline.

Base equipment: Z320M, Z320R

The 107-cm (42-in.) Accel Deep™ (42A) Mower Deck cuts clean and is versatile



ZTrak™ Z315E with Accel Deep 42A Mower



42A Mower Deck

The 107-cm (42-in.) Accel Deep Mower Deck is a stamped-steel, deep, flat-top design that delivers excellent cut quality, productivity, cleanliness, durability, and versatility. Optimal performance and dispersion of clippings is provided, even at faster mowing speeds or in tall grass:

- 12.6-cm (4.97-in.) deep throughout the entire deck shell for optimum mowing, mulching, and bagging performance
 - Optional MulchControl™ system provides superior mulching performance and versatility
- Stamped-steel design eliminates sharp edges and corners where material can build up and diminish mowing performance
- Mower deck is suspended from the vehicle for a smooth and level cut
 - Adjustable mower wheels, positioned just above ground level, help reduce scalping
- 6.4-mm (0.25-in.) cut-height increments allow the mower to be set at the desired cut height
- Compatible with efficient 230-L (6.5-bu) two-bag cut-and-throw material collection system

Excellent cut quality



42A Mower Deck top (shown with optional MulchControl)



42A Mower Deck underside (shown with optional MulchControl)

Deep mower-deck stamping gives excellent cut quality. It allows the cut and suspended material room to exit the deck without getting recut:

- Reducing the amount of re-cutting enables more power to be used to cut incoming grass, which greatly improves mower capacity.
 - Helps maintain excellent cut quality at faster mowing speeds
- Clean flow of material out of discharge area prevents cut material from interfering with cutting the incoming grass, making it possible for the blades to cut incoming material cleanly.
- Even in mulching mode, cut evenness is improved compared to other designs because the additional depth allows for continuous circulation, optimal re-cutting, and an even distribution of clippings.

Productivity - gets the job done fast



Side-discharge chute on Accel Deep 42A Mower Deck

Deep mower-deck stamping gives high productivity, which gets the job done fast. It allows the cut and suspended material room to exit the deck quickly, reducing the amount of re-cutting so more power is available to process incoming grass:

- Greatly improves mowers capacity to maintain excellent mowing performance in difficult mowing conditions and at higher speeds

Large discharge opening is both high and wide to handle more material:

- Gives a smooth, even discharge of clippings at all mowing speeds
- Reduces the chance of plugging, especially important when operating in wet, thick, or dense grass and when bagging
- Cut-and-throw chute has a large, optimized inlet which aids in collecting material by using airflow from the large deck opening

Cleanliness - for the mower and the operator



Accel Deep 42A Mower Deck

The flat-top shape of the deck stamping is optimal for keeping itself and the operator clean:

- There are few places to catch and hold material on top and underneath the deck.
- Top of deck stays cleaner, reducing time and effort needed for cleaning and service
- Underside of deck is self-cleaning to maintain optimum performance without build-up of material to interfere with the flow of air and clippings
- Less need to clean and remove build-up of material from underside deck
- The depth of the Accel Deep Mower Deck minimizes the amount of material that escapes from the front of the deck
- Limited amount of material to drift onto the operator and mower deck
- Even flow of material discharged out the chute, less recutting results in larger pieces that are less likely to end up on the operator
- Mulching prevents the discharge of material completely, and MulchControl makes mulching a practical solution for most mowing situations

Cleaning a mower deck, both top and bottom, is one of the most frequent maintenance activities:

- The flat-top design reduces places for material to build up and makes material that does collect easy to remove.



Mower wash port



Mower wash port with locally purchased hose connector

A wash port is provided to make cleaning the underside of the mower deck easy.

- A hose-end adapter for the appropriate water hose to be used can be purchased locally for connection to the wash port.

Superior durability is designed in



42A Mower underside (shown with optional MulchControl)



Mower wheels are double captured

The 42A Mower Deck has strong spindle pockets, to keep the blades aligned, even after years of tough service:

- Ribs in the deck shell add strength where it is needed.
- The 42A has a 16 percent heavier overall weight than the Edge™ Xtra 107-cm (42-in.) Mower Deck that it replaces.

Mower wheels are double captured:

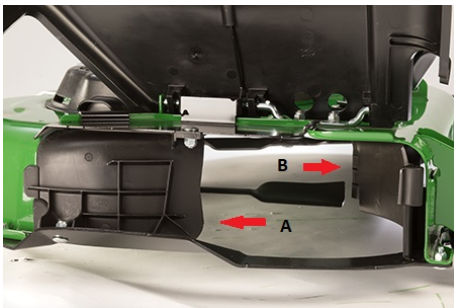
- Provides greater strength and durability for longer, trouble-free life.
- Single-bolt adjustment makes setting wheels to the correct height for the cutting height quick and easy.

Low-tension belt-drive design reduces the side load on the engines lower bearing and mower deck bearings for longer life.

Rolled outer edge of the deck provides extra strength and protection.

Dual-stage E-coat and powder-paint coatings provide extra protection from rust.

Versatility - easy to change between side discharge, mulch, and bagging modes



Rear MulchControl baffle (A) that must be removed for bagging



Rear MulchControl baffle removed to allow for chute installation

The 42A Mower Deck is designed for maximum versatility, providing the greatest ease in changing from one mower discharge mode to another:

- With the optional MulchControl system installed (along with the special mulching blades), changing from side discharge to mulching or vice versa is done with the simple flip of a lever.
- The cut-and-throw rear bagger can be used with MulchControl installed by removing the rear MulchControl baffle (A) before installing the bagger chute. The baffle is held in place with two carriage bolts. To return to mulching, the chute needs to be removed and the baffle replaced.

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MulchControl option

The MulchControl system for the 42A Mower Deck is an optional field-installed attachment and makes mulching practical for many mowing situations because it not only does an excellent job of mulching, but it also allows the mower to be easily converted for times when it is more desirable to side discharge or collect the lawn material. Advantages of mulching grass clippings include:

- A beautiful looking lawn
- Grass clippings not blown onto the operator, driveways, or flower beds
- Less fertilizer use
- Elimination of the effort needed to dispose of clippings

How MulchControl works



MulchControl baffle open



MulchControl baffle closed

MulchControl is an innovative, simple design that is easy to use and maintain:

- The MulchControl attachment includes baffles to control the flow of material under the deck.
 - When the MulchControl baffle is open, most of the material passes through the discharge opening.
 - When the MulchControl baffle is closed, the material stays within the deck and gets chopped into mulch and deposited in the turf.



MulchControl handle

- The MulchControl handle is located on top of the mower deck and used to open and close the discharge baffle.
 - The operator is required to get off the machine in order to engage or disengage mulch mode.
- Changing from mulching to side discharge or vice versa takes only a few seconds.

MulchControl is well-suited to the following mowing situations:

- Usually mulch, but side discharge when grass gets too long
- Usually side-discharge, but would like to be able to close the chute to control clippings
- Always mulch a main lawn, but often side discharge secondary lawns
- Bag clippings, but want to go farther before emptying bags

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While in the side-discharge mode, MulchControl still mulches about one third of the material. Therefore, the side-discharge mode is essentially a partial-mulch mode. This can be an advantage when side discharging or bagging, as it helps to reduce the amount of material being discharged. Other times this could work as a disadvantage:

- When cutting strong southern grasses, such as Zoysia and Bermuda
- When cutting in wet, high-growth conditions, such as those found in the Pacific Northwest United States
- When optimum bagging and lawn cleanup is desired

230-L (6.5-bu) rear bagger



Z315E equipped with optional rear bagger

An optional 230-L (6.5-bu) cut-and-throw rear bagger material collection system (MCS) is available for use with the 107-cm (42-in.) Accel Deep Mower. It provides an efficient means of collecting grass clippings and leaves.

The hopper design provides modern styling, great bagging performance, cleaner operation, and easy-to-empty bags:

- 230-L (6.5-bu) capacity
- Easy-to-attach lower chute
- Air exhaust duct
- Convenient spring-latch
- Airflow fill indicator
- Quik-Tatch™ mounting
- Sealed hopper top
- Loose-knit bags available

Mower blades



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The bagger attachment includes hopper, chute, ballast, hitch, and components of the 42A MulchControl system including M170642 mulching blades for use when bagging, mulching, or side discharging grass and leaves. MulchControl is a compliance requirement for use of the rear bagger and includes components to be installed on the mower deck to make a complete cut-and-throw bagging system. If MulchControl is removed, the original M175084 blades that came on the mower deck must be reinstalled.

Mower blade use chart

Mode(s) of operation	Mower blade
Side discharging mode only	Side-discharge blade (shipped with mower)
Bagging mode only	Mulching blade (shipped with MulchControl included with bagger)
Mulching mode only	Mulching blade (shipped with MulchControl)
Side discharge and mulching	Mulching blade (shipped with MulchControl)
Side discharge and bagging	Mulching blade (shipped with MulchControl included with bagger)
Side discharge, mulching, and bagging	Mulching blade (shipped with MulchControl included with bagger)

Base equipment: Z315E, Z320M, Z320R

Operator station is designed for comfort and convenience



Z320M operator station



Z320R operator station

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Color-coded controls are easy to identify

The operator station is designed for operator comfort and convenience when operating all controls:

- Excellent visibility forward and to the trim side of the deck makes operation easy and comfortable for the operator.
- Controls are color coded for easy identification.
- Translucent fuel tank displays fuel level.
- Twin-lever controls adjust, using included tool, for convenience and operator comfort.
- A shock absorber dampens motion control lever movement to give smooth operation.

Comfortable seat



Comfortable seat (Z320M shown)

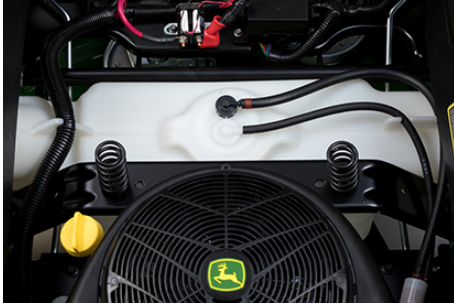


Comfortable seat (Z320R shown)

Comfortable seats make the operator experience more pleasant. Armrests, included on the Z320R seat, can be flipped up out of the way, if desired:

- Z320M – 51-cm (20-in.) high seat back
- Z320R – 51-cm (20-in.) high seat back with adjustable armrests

Seat suspension



Seat suspension springs



Seat fore-aft adjustment

Two steel coil suspension springs under the seat absorb shocks when traveling over rougher areas to provide a smoother ride.

The seat fore-aft position can also be changed without tools.

Cup holder and storage compartment



Cup holder

The cup holder is designed to hold common cup sizes securely.



Z320M open storage compartment



Z320R covered storage compartment

A storage compartment provides a safe and secure place for the operator to keep safety equipment, a cell phone, etc.

Operator foot platform



Z320M operator's platform



Z320R operator's platform

Large foot platform helps the operator remain comfortable and secure:

- Volcano grips give a secure grip.
- Raised footrests at the front of the platform provide a comfortable area for the operator's feet.
- An attractive floor mat is standard on Z320R and optional on Z320M

Base equipment: Z320M, Z320R

Serviceability is designed-in for convenience



Footrest is easily removed for easy access to mower

The footrest area is hinged and easily raised for service to mower deck:

- No tools are needed to lift footrest
- Easy to clean grass off the top of the mower
- Provides convenient access to the mower



Replaceable oil filter and fuel filter (shown on Z315E)

The engines are easy to service, including changing the oil and the oil filter and servicing the air filter.



Accel Deep™ Mower Deck



Flip-up cover for easy spindle-pocket access

Accel Deep mower decks have several features that make them easy to service:

- Flat-top design minimizes places for debris to collect.

•

Spring-loaded, flip-up belt guards make removing debris easy.

All mower decks have provision for a standard, 9.5-mm (3/8-in.) ratchet wrench to be used for releasing belt tension when removing the drive belt.

Base equipment: Z315E, Z320M, Z320R

Instruments and controls are convenient and easy to use

Motion-control levers



Motion-control levers



Adjustable motion-control levers

The motion-control levers can be adjusted to three different height settings and eleven different fore-aft settings:

- Increased operator comfort
- Adjustable for more precise control of the machine

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Tracking adjustment

A standard shock absorber for the motion-control levers makes maneuvering ZTrak™ Mowers easy and comfortable:

- Shock absorber modulates the movement of control levers for smoother operation.
- Operator can smoothly and precisely control the machine.

Making the tracking adjustment from the operator seat is quick and easy. The included tool is used for adjusting the motion-control levers.

Control panel



Control panel (shown on Z315E)

The operator control panel is conveniently located and easy to use. The following instruments and controls are included:

- Hour meter
- Ignition switch
- Power take-off (PTO) control
- Engine speed/choke control
 - A choke position is built into the engine speed control (Z315E).
 - A separate choke lever is used (Z320M and Z320R).

Park brake



Motion-control levers in operating position disengages park brake

The integrated park brake is automatically applied when steering levers are stowed outward and disengaged when motion control levers are placed into operating position.

Mower deck lift/cut-height adjustment



Mower deck lift/cut-height adjustment



Foot pedal lift and cut-height adjustment

- Easily lift the mower deck using the foot lift pedal.
- A cut-height preset ensures the deck returns to the correct position.
- Mower deck cutting height adjusts from 3 to 11 cm (1.25 to 4.5 in.) in 0.64-cm (0.25-in.) increments for excellent cut quality and performance.

Steering is easy with large diameter front caster wheels



Motion-control levers

Motion-control levers are designed for comfortable and easy operation.

A shock absorber is included to dampen the movement of the control levers so any operator can make smooth, controlled turns.



Front caster wheel

Pneumatic caster wheels give a smoother ride and easier steering:

- Large diameter front caster wheels provide extra ride comfort and better steering control.
- Caster wheels have sealed bearings for long life and easy steering.
- Large 11x6-5 tyres

Controls are designed to promote safe operation



Motion-control levers in outward position

- Motion-control levers must be in the outward position for the engine to crank.



Interlock switch is located under the seat

- Seat interlock switch disengages the mower when the operator leaves the seat.
- Engine will stall if the operator leaves the seat without the motion-control levers in the outward position and the park brake set.

Light Emitting Diode (LED) lights



LED lights

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LED lighting provides additional lighting when needed.

- Standard Z320R, optional on Z315E and Z320M
- Z315E and Z320M models include wiring to speed installation

Base equipment: Z315E, Z320M, Z320R

Design includes a heavy-duty formed and welded steel frame



ZTrak™ Z315E Mower shown

ZTrak Mowers are designed around a heavy-duty formed and welded steel frame for strength and reliability.

Large front caster wheels and large rear drive wheels provide several operator benefits:

- Smoother ride
- Better slope performance
- More operator comfort over uneven ground
- Better traction

The operator platform is roomy and uncluttered for maximum comfort, and the controls are convenient to use:

- Easy to get on and off the mower
- Ample legroom for comfortable operation
- Adjustable motion-control levers for height and position, enabling the operator to stay comfortable while using them
- Color-coded and logically-placed controls

Styling is both functional and attractive



ZTrak Z320R Mower

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The styling of ZTrak Mowers is functional and attractive to appeal to residential owners who value product appearance and the easy, comfortable operation that comes with thoughtful control designs:

- Color-coded controls are not only attractive, but easy for the operator to find and use.
- Large foot platform, surrounded by frame rails, has a safe and inviting appearance and provides easy access for the operator.
- Contoured shape of the fenders provides improved visibility to the drive tyres, minimizes storage space required, and adds to the stylish appearance of the vehicle.

Heavy-duty welded steel frame for reliability and long life



U.S. Z325E with foot platform removed to show frame

The ZTrak Mower frame is constructed of heavy-duty steel tubing for long-term durability:

- 6-cm x 5-cm (2.5-in. x 2-in.) steel tubing in front
- 4-cm x 5-cm (1.5-in. x 2-in.) steel tubing on sides
- Provides solid support

Front bumper



Front bumper

A front bumper protects the front of the mower from damage

- Standard Z320M and Z320R models, optional on Z315E model

Rear hitch



Rear hitch

A rear hitch provides towing capability:

- Pull a trailer up to 113 kg (250 lb.) of weight
- Bolts to tubular frame for solid support
- Standard on Z320M and Z320R, and optional on Z315E

Base equipment: Z315E, Z320M, Z320R

Electric power take-off (PTO) clutch is reliable and easy to use



Electric PTO switch

A heavy-duty electric PTO clutch is controlled by a convenient, dash-mounted control.

Heavy-duty PTO clutch



PTO clutch

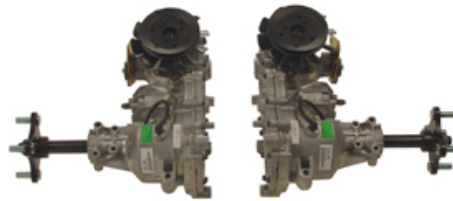
The PTO clutch is designed to operate through many on/off cycles.

Base equipment: Z315E, Z320M, Z320R

Dual transmissions are efficient and have large, 2.5-cm (1-in.) diameter axles for durability



Hydrostatic transmissions set low in vehicle



Hydro-Gear transmissions

Dual transmissions efficiently power the ZTrak™ Mower forward and reverse and give steering capability:

- Transmissions are set low in the vehicle for excellent hillside stability.
- Hydro-Gear® transmissions are reliable and durable.
 - Beefed-up, 2.5-cm (1-in.) axles for greater strength
- Maintenance-free unitized transmissions are sealed and have no hose connections to leak hydraulic fluid.

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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.

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Prepared On : Sep 01, 2022



Hydro-Gear EZT transmission



Tow-valve control (left side shown)

Four-bolt hubs provide a reliable and convenient wheel-mounting system.

Tow-valve controls are provided for each transmission and located above the vehicle frame on either side of the engine:

- Easy to reach and use
- Allow the vehicle to be moved without the engine running

Hydro-Gear is a trademark of Hydro-Gear Limited Partnership AF Holding Company, a Delaware Corporation and Danfoss Power Solutions (US) Company, a Delaware Corporation.

Base equipment: Z315E, Z320M, Z320R

Fuel tank is conveniently located for easy refueling



Fuel tank location



Fuel-fill cap

The fuel tank holds 11.4 L (3.0 U.S. gal.) of fuel. It is located low on the left side of the machine:

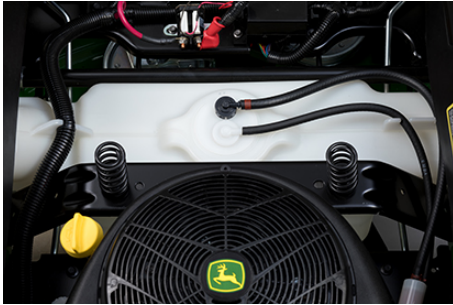
- Fuel-fill opening is located low and angled for easy refueling.
- Large, 5.1-cm (2-in.) fuel-fill opening reduces the chance of spilling when adding fuel.
- Cap is tethered to the fuel tank.
 - Less chance of fuel cap getting lost

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Translucent fuel tank

Translucent fuel tank displays fuel level.

Base equipment: Z315E, Z320M, Z320R