

# Selling Equipment

Quote Id:

<b>JOHN DEERE 1600 Turbo TerrainCut Commercial Wide-Area Mower with 4-Post ROPS Canopy</b>				
				<b>Suggested List</b>
				\$ 94,934.94
				<b>Selling Price</b>
				\$ 74,489.86
<b>Hours:</b>				
<b>Stock Number:</b>				
Code	Description	Qty	Unit	Extended
0736TC	1600 Turbo TerrainCut Commercial Wide-Area Mower with 4-Post ROPS Canopy	1	\$ 93,584.00	\$ 93,584.00
Standard Options - Per Unit				
001A	United States and Canada	1	\$ 0.00	\$ 0.00
183N	JDLink™ Modem	1	\$ 0.00	\$ 0.00
0443	US English w/ Spanish (Bi-Lingual) Operator's Manual	1	\$ 0.00	\$ 0.00
<b>Standard Options Total</b>				<b>\$ 0.00</b>
Other Charges				
	Freight	1	\$ 600.00	\$ 600.00
	Setup	1	\$ 400.00	\$ 400.00
	MDF	1	\$ 350.94	\$ 350.94
<b>Other Charges Total</b>				<b>\$ 1,350.94</b>
<b>Suggested Price</b>				<b>\$ 94,934.94</b>
Customer Discounts				
<b>Customer Discounts Total</b>			<b>\$ -20,445.08</b>	<b>\$ -20,445.08</b>
<b>Total Selling Price</b>				<b>\$ 74,489.86</b>

<b>JOHN DEERE Z997R DIESEL NA</b>				
				<b>Suggested List</b>
				\$ 31,247.51
				<b>Selling Price</b>
				\$ 23,211.94
<b>Hours:</b>				
<b>Stock Number:</b>				

Quote ID :33063818

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## **2025 JOHN DEERE 1600 Turbo TerrainCut Commercial Wide-Area Mower with 4-Post ROPS Canopy**

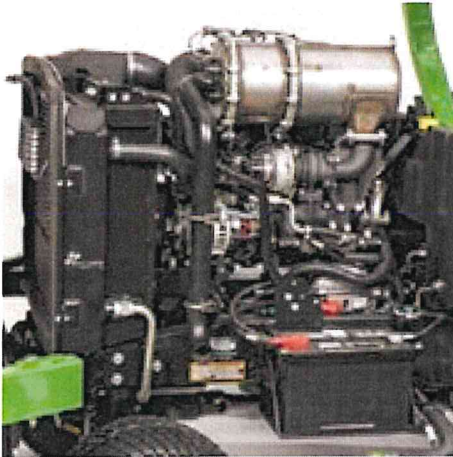
### **Key Features**

#### **Powerful turbocharged diesel engine for superior performance**

The 1600 Turbo TerrainCut WAM is powered by a liquid-cooled, turbocharged, four-cylinder, 60-hp (44.7-kW) at 3000 rpm, PS diesel engine.

Engine features include:

- 117.3 lb-ft (159 Nm) of torque at 3000 rpm for extra lugging power on hills and in tough mowing conditions
  - Large 127.6-cu in. (2.091-L) displacement, which produces the torque needed to handle hills and tough mowing conditions
- Engine is a 16-valve (four valves per cylinder, two intake and two exhaust) design:
- Cold-start device to increase engine timing for improved cold starting
  - Full-pressure lubrication for positive lubrication with continuous operation on slopes
  - Dual-element air filter that is completely sealed for effective cleaning



1600 Turbo TerrainCut™ Wide-Area Mower (WAM) engine



1600 Turbo TerrainCut WAM engine

- Progressive-type air-restriction indicator to let operator know when the filter needs servicing
- Automotive-type alternator (75 amp) that provides plenty of charge to the battery
- Glow plugs for quick starting in cold weather
- Automotive sensing system, which tells the operator when the engine is ready to start
- Isolated engine mounting, which reduces engine vibration in the operator's station for more comfortable operation

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Air filter with air-restriction indicator



Air-restriction indicator

### **Direct fuel injection**

- Injects fuel directly on top of pistons for more efficient combustion, less emissions
- Delivers more power per gallon of fuel
- Quicker starting and quieter operation
- Designed to meet California emission standards
- Features low levels of exhaust and emissions and excellent fuel economy. It meets the necessary Environmental Protection Agency (EPA) Tier 4 standard and meets 97/68/EC EU non-road mobile machinery (NRMM) emissions regulation
- Electronic engine control and cooled exhaust gas recirculation (EGR) system
- High-pressure common fuel rail for lower emissions and improved engine responsiveness

### **Flow of exhaust during engine operation**

- Exhaust airflow enters into the EGR cooler from the exhaust manifold near the turbocharger
- Cooler takes hot exhaust gases and cools them to where the temperature will not have excessive impact on combustion efficiency
- Based on load, air temperatures, and rpm, the engine control unit (ECU) opens (or closes) the EGR valve, allowing exhaust gases into the intake manifold. The gases mix with the rest of the incoming air from the turbocharger and aftercooler.

Other engine features:

- Overhead valve (OHV) for efficient combustion
- Liquid-cooled for more consistent operating temperatures
- Closed crankcase ventilation that burns crankcase hydro-carbon evaporation
- Deluxe air-intake system
- Hood that is composed of a large, black, cross-link polyethylene-composite center section with green, metal side panels
  - The composite center section includes air-intake screens and helps to guide the cooler air from above the machine to the radiator. The design provides a uniform distribution of clean air, as well as minimizing the amount of chaff collection on the exterior screens.
- Additional sealing around the operator station reduces the amount of hot air blowing on the operator, which in turn improves operator comfort.
- The rear bumper helps with hood sealing and reduces the potential for rear hood damage.

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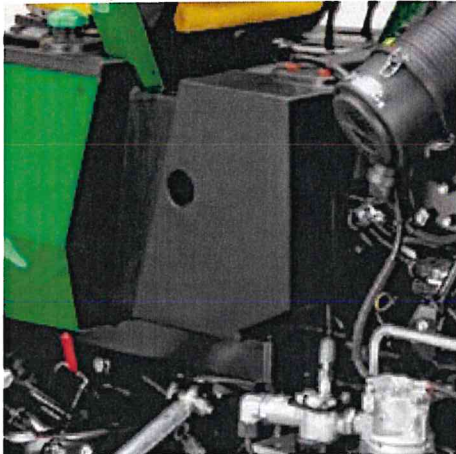
1600 Turbo TerrainCut  
WAM side view



Deluxe air-intake system

### 22 gal. (83.3 L) of fuel on board, plenty for a long day of mowing

The operator can fill the fuel tank without removing the hood. The fuel tank capacity is 22 U.S. gal. (83.3 L) for all-day mowing.



Fuel tank



Large fuel fill opening

## Key Features

### Controls and instrumentation are convenient and easy to find



Control console

Low-effort controls are conveniently grouped on the right-hand side.

The finger-touch controls are:

- Left mower deck lift/lower switch
- Front mower deck lift/lower switch
- Right mower deck lift/lower switch
- Electronically-controlled throttle lever
- Electronically-activated power take-off (PTO) switch
- Speed-range lever for high, neutral, and low range
- Four-wheel drive (4WD) lever

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### Hydrostatic power steering

- Makes it easy to turn the machine, reducing operator fatigue
- Allows quick steering action, two and a half turns lock-to-lock, for excellent maneuverability

### Two-pedal foot controls



Two-pedal foot controls

- Convenient two-pedal hydrostatic control system
- Allows the operator to select speed and direction with just a touch of the toe while resting heel on platform
- Twin Touch™ pedal design that allows the operator to change direction without having to lift his foot off the platform
- Large pedal surface, which provides increased operator comfort
- Keeps both hands free for steering and operating controls

### Standard turning brakes



Standard turning brakes

The individual brakes can be applied by the operator as a traction aid or to reduce the turning radius.

### Master stop brake



Master stop brake

- Brake is easy to use.
- Push-pull-type parking brake release allows the operator to simply pull out the knob and depress the foot brake to engage. To disengage, simply push the foot brake pedal and push the knob in to initiate release.
- Brake provides stopping power to both drive wheels.
- The stop brake is used for a parking brake.

### Differential lock



Differential lock

- Locks both front drive wheels together for added traction
- Increases traction and flotation in poor traction conditions

The differential lock is located on the left side of the platform; this allows for easy use of the Twin Touch foot pedals (on the right side) while engaging the differential lock at the same time.

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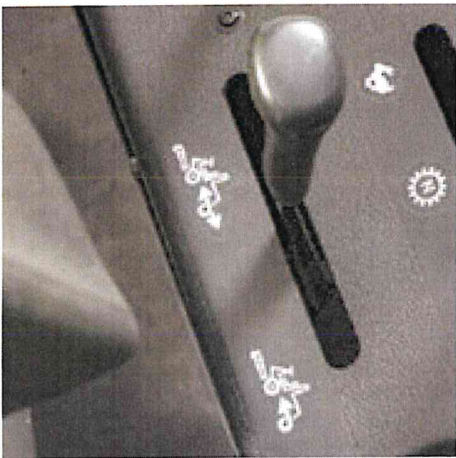
### High/low range lever



High-/low range lever

- The high-/low range lever allows the operator to select the desired speed range.
- The machine must be stopped to shift between ranges.
- Shifting to the neutral position allows the operator to by-pass the hydraulic drive for towing.

### 4WD lever



4WD lever

- The 4WD lever allows the operator to engage 4WD in reverse. 4WD is automatically engaged when wheel slip occurs in forward drive.

### Electronic cruise control



Electronic cruise control

- Beneficial when mowing open areas or when transporting
- Located on the steering column

### Cruise control operation

- To engage, simply push forward on the cruise control switch and hold until the foot is removed from the forward pedal.
- For an emergency stop, cruise can be released by pushing on the master brake pedal or turning the cruise control switch off.

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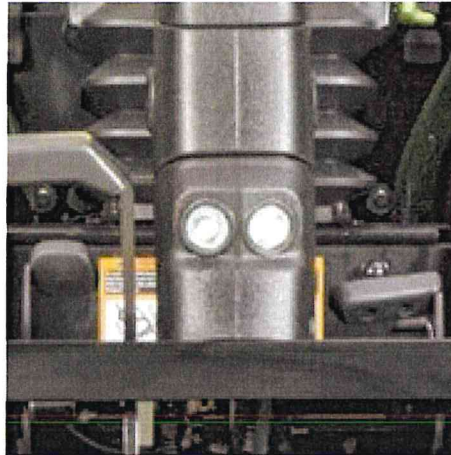
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### Tilt steering

- Allows the operator to adjust the steering column to the most comfortable position and provides additional clearance for entry to the operator station
- Two standard 20-W halogen headlights are located low in the column for the best illumination



Tilt steering



Headlights

### Optional light-emitting diode (LED) road light, beacon light, and work light attachments

The road, beacon, and work light attachments are available in LED designs.

- BUC11407 breakaway LED beacon light kit is short to avoid damage.
- BUC11408 LED work light kit includes four front-mounted LED work lights.
- BUC11543 LED road light kit includes turn signals, warning flashers, taillights, mounting brackets, wiring harness, and turn signal switch. BUC11543 requires BUC11408 LED work light.
- BUC11407, BUC11408, and BUC11543 are compatible with model year 2018 and newer (serial number 500,001-) wide-area mowers.



LED road and work lights

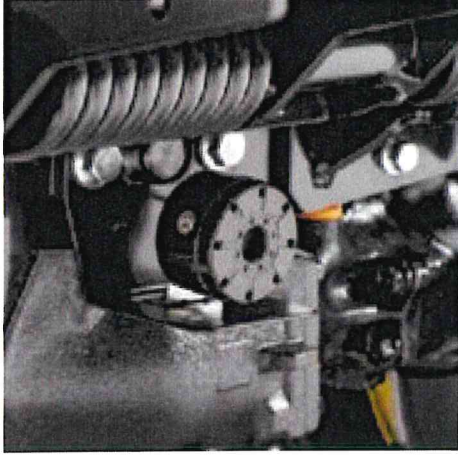


LED road and  
breakaway beacon lights

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### Optional back-up alarm attachment



BUC11625 back-up alarm is available as a field installed attachment for model year 2023 and newer (S.N. 680001-) wide area mowers.

Back-up alarm

### Mower deck lift switches



The mower deck switches allow the operator to vary mowing widths, engage and disengage the wing-deck blades, and service and transport the machine.

Mower deck lift switches

### Easy-to-view operator instrumentation



Instrumentation from seat



Instrumentation panel

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Engine rpm screen



System voltage screen



Diesel particulate filter screen



Service menu screen

An instrument panel is located on the steering column for both operator convenience and safety.

Instrumentation includes:

**Hour meter**



Engine coolant temperature screen

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Hour meter

- Located on the steering column for easy viewing
- Records the number of hours the engine has run
- Used along with the periodic service chart (located in the engine compartment) to determine when service procedures need to be performed on the machine and mower deck

#### **Engine glow plug light**

The engine glow plug light indicates the intake manifold heater is energized. The operator should wait until the glow plug light goes off before starting the engine.

- The manifold heater is controlled by a temperature-sensitive timer and turns off sooner in warm weather.
- Starting the engine before the indicator turns off wastes fuel, creates smoke, and puts unnecessary wear on the starter.
- If the starter does not engage when the key switch is turned to the start position, one of the start conditions has not been met. Trouble codes are presented as a sequence of flashes and pauses that must be counted and converted to a two digit number:
  - One flash, a short pause, and two flashes – operator attempted to start the machine without the park brake locked and the operator is off of the seat (one of these conditions must be met for the starter to engage).
  - One flash, a short pause, and three flashes – operator attempted to start the machine with the power take-off (PTO) engaged.
  - Two flashes, a short pause, and one flash – hydrostatic pedals are not centered in the neutral position.

#### **Engine coolant temperature light**

The engine coolant temperature light indicates the engine is overheating. A warning beeper also sounds when the light comes on.

#### **Engine oil pressure light**

The engine oil pressure light indicates the engine oil pressure is low. The indicator should be lit as a test to make sure it is working when the key switch is turned to the run position. A warning beeper sounds when the light comes on. The light (and beeper) should go off once the engine starts.

#### **Battery discharge light**

The battery discharge light indicates the battery is not getting enough charge from the alternator. The light should come on when the key switch is turned from off to run. The light should go off once the engine starts.

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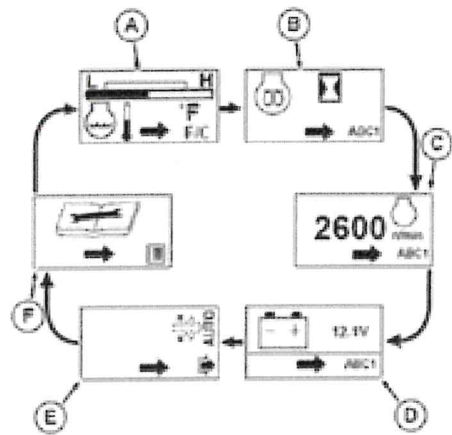
### Primary display unit (PDU) navigation



Primary display unit

The PDU utilizes three buttons for navigation.

The display's top-level screens can be cycled through by pressing the center button.



Operator screens

Top level screen functions are as follows:

- A - Engine coolant temperature (ECT) screen
- B - Pre-heat countdown (HPH) screen
- C - Engine rpm (rpm) screen
- D - System voltage (SV) screen
- E - Diesel particulate filter (DPF) screen
- F - Service menu (IServ) screen

The top-level screens are shown in order of display. To navigate to next top-level screen, press the center button on the PDU. For more information on the different functions, please refer to the machine's operator's manual.

### Tool tray and cup holder for operator convenience



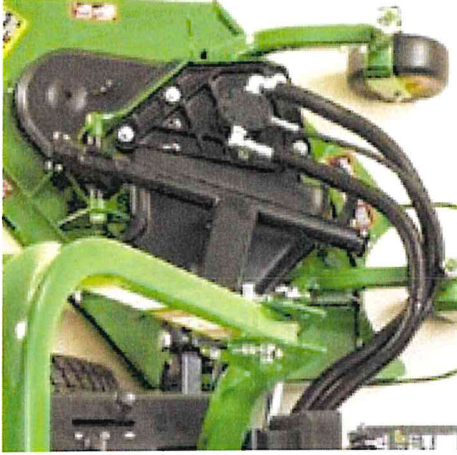
Tool tray and cup holder

Tool tray and cup holder are convenient for the operator to get to:

- Quick access to a drink and tools on the machine decreases downtime.

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### Power take-off (PTO) drive provides control and power



Hydraulic PTO drive

Mower decks are hydraulically driven using a separate closed-loop system with one gear-type motor for each deck:

- Mowers are designed to provide increased torque to the decks for additional power and productivity in tough mowing conditions.
- The operator can raise one or both of the wing decks and all hydraulic power will be directed to the center deck (exclusive John Deere feature) to provide maximum hydraulic pressure for extreme conditions.
- Blades are belt-driven from each deck motor.

### Safety starting system

The 1600 Turbo TerrainCut™ Wide-Area Mower (WAM) has an operator-presence system.

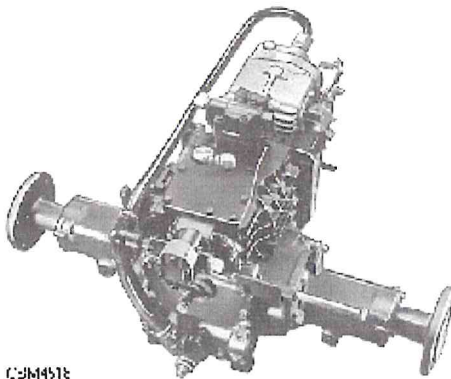
In order to start the engine, the following must be met:

- The hydrostatic foot controls must be in neutral.
- The power take-off (PTO) must be disengaged.
- The operator must be in the seat or the parking brake must be set.
- The ignition key must be used.

In addition, once the engine is running, an interlock automatically shuts the engine and PTO off if the operator leaves the seat. To keep the engine running, the operator must disengage the PTO and set the parking brake before dismounting.

## Key Features

### Maximum productivity with hydrostatic transmission and transaxle



C3M451E

Hydrostatic transmission

A hydrostatic transmission is used for reliable operation.

Durability features include:

- Large, forged, one-piece trunnion shaft with large support bearings to reduce vibration and noise
- Charge pump used to efficiently deliver oil to the transmission
- Oil cooler to cool transmission oil for longer transmission life
- Pressure-side filtration to allow use of a finer mesh (10 micron filter) than suction filtration systems

High-range/low-range transaxle allows the following:

- High range has maximum speed of 15 mph (24.1 km/h) for faster transport. Power take-off (PTO) can be engaged for mowing in high range.
- Low range has a maximum speed of 9 mph (14.5 km/h). The wide-area mower (WAM) can mow in both low and high range.

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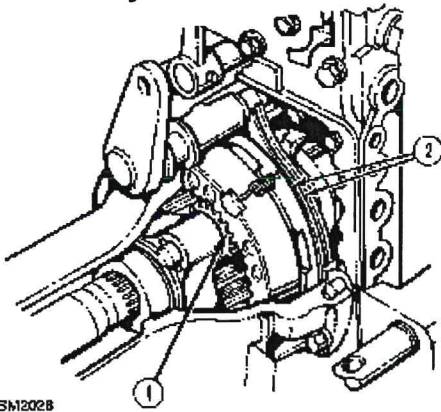


Differential lock

The differential lock is standard equipment:

- It locks both the front drive wheels together for extra traction, when needed.
- Conveniently located pedal allows the operator to engage the differential lock.

### Planetary final drive and wet-disc brakes ensure durability and long life



The planetary final drive (label 1 in the drawing) does the following:

- Evenly distributes stress load for long life
- Has heavy-duty drive axles for extra durability

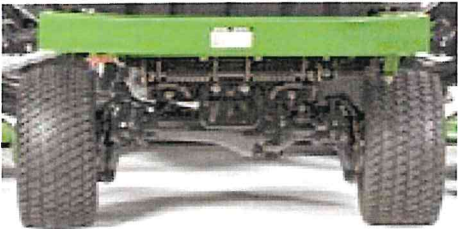
Wet-disc brakes (label 2 in the drawing) do the following:

- Provide positive stopping power and long life
- Require minimal adjustment
- Include individual turn brakes as standard

CSM2028

Planetary final drive/wet-disc brakes

### Mechanical rear-wheel drive



1600 Turbo TerrainCut™  
Wide-Area Mower (WAM)  
mechanical rear-wheel drive axle

Two-function mechanical rear-wheel drive is standard equipment:

• On-demand four-wheel drive (4WD) automatically engages and disengages as needed. The machine operates in two-wheel drive (2WD) until front-wheel slip is detected. If front-wheel slip is detected, the machine then automatically engages 4WD in the forward direction.

- Constantly maximizes trimming ability
- Better fuel economy than full-time 4WD
- Less steering tire wear than full-time 4WD
- Increases traction and trimming ability to allow a novice operator to mow like an expert
- Works in the forward direction only
- Full-time 4WD is on only when shifted into position by the operator.
- Can be engaged or disengaged on the go
- Provides maximum traction and flotation in difficult operating conditions
- Works in reverse as well as the forward direction

## Key Features

**Mower decks have many performance and convenience features**

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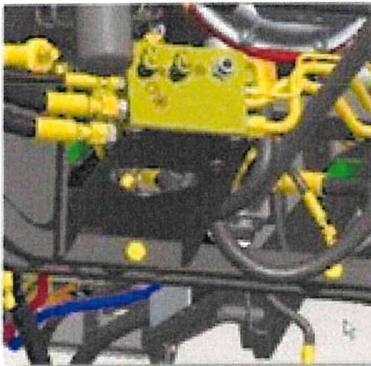
### Lift valve



The lift valve controls the cylinders that lift and lower the decks. It also controls the axial piston deck-motor pump (turns it on and off).

Lift valve

### Mow valve



The mow valve controls the hydraulic flow to the wing deck circuits.

Mow valve

### Mower mulch kit available

A mulch kit is available as an attachment for field conversion. The mulch kit includes unique mulch blades, baffles, and a deflector shield to produce smaller clippings, which decompose faster than un-mulched clippings. Operators should follow the one-third rule when mulching grass.

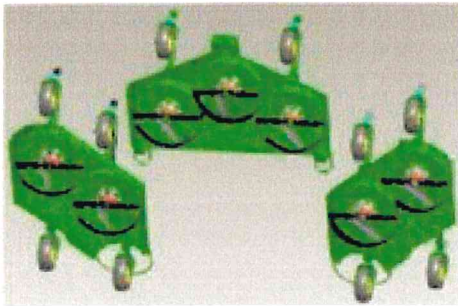
This mulch kit also does an excellent job when mulching leaves.

BTC10335 TriCycler Mulching Kit

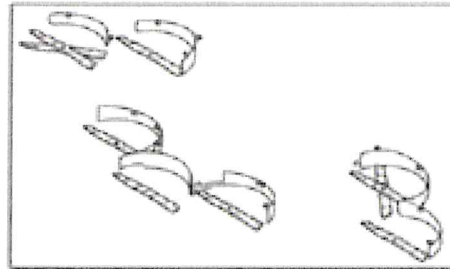
*NOTE: Applicable for serial numbers starting with 1TC1600TPBT100007 and higher, model year 2012 and newer.*

Viton is a trademark of The Chemours Company.

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WAM mulch kit illustration



WAM mulch kit illustration



Wide-area mower (WAM) top view



WAM front view with side mowers raised



128 in. (325.1 cm)  
with both wings down



94 in. (238.8 cm) with center  
deck and either side deck down

The 1600 Turbo TerrainCut™ WAM is equipped with a 62-in. (157.5-cm) center deck and two 42-in. (106.7-cm) wings. Cutting widths are 128 in. (325.1 cm) using all three decks, 94 in. (238.8 cm) using the center deck and either wing deck, and 62 in. (157.5 cm) with the center deck only. All decks are rear discharge. Wings fold for transport and reduce the machine's width to a narrow 84 in. (213 cm), so it can easily be driven along golf-cart-size paths or fit on a trailer. The wing decks will float 45 degrees above horizontal and 20 degrees below horizontal, following the ground contour.

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Front and side mowing



62 in. (157.5 cm)  
with center deck only

All decks have a unique baffling system that reduces clumping and provides even clipping dispersal for exceptional appearance.

Features common to these rear-discharge mower decks include:

- Mower decks are fabricated from 7-gauge, 0.179-in. (4.6-mm) steel, the thickest in the industry; strength has been designed into the 1600 Turbo TerrainCut™ WAM mower decks for increased reliability
- A 3/4-in. (1.9-cm) solid bar runs along the entire mower deck perimeter for added strength
- Dual-range height of cut spans 1 in. (2.54 cm) to 5.5 in. (14 cm) in 0.5-in. (1.27-cm) increment adjustments
- Wing deck float of 45 degrees upward and 20 degrees downward provides excellent cut quality when mowing undulating terrain
- Each wing deck has four caster wheels to follow ground contour and provide unmatched cut quality
- Unique baffling system produces even grass dispersal for superior appearance



Underside of 62-in. (157.5-cm) deck    Side view of 42-in. (106.7-cm) deck

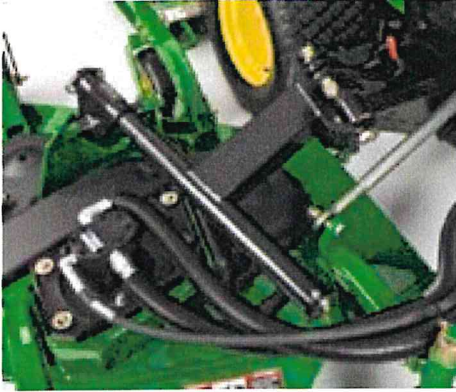
#### **Patented impact-absorbing system**

A patented impact-absorbing system is provided:

- This exclusive feature allows the wing decks to move rearward and inward when contacting obstructions such as trees, curbs, or other solid objects to prevent damage.

**Quote ID :33063818**

- Mowers are safety certified (meaning that mowers have been evaluated by the manufacturer [John Deere Turf Care] and conform to American National Standards Institute [ANSI] B71.4 Safety Certification Specifications for Commercial Turf Care Equipment).



Patented impact-absorbing system

**Isolated deck motor design**


Isolated deck motor design

The isolated deck motor design consists of three cast-iron mounting structures for the deck motors. Rubber isolators that are similar to engine mount isolators are located between the castings and the deck shell brackets.

The rubber isolators allow the castings to flex relative to the deck shell. The addition of the isolators stops the vibration path between the hydraulic motor and the deck shell, thus preventing the amplification of sound by the deck shell.

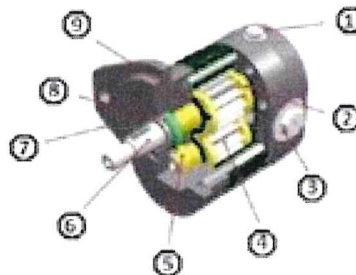
**Deck motors**

- Radial case drain
- Pressure balanced bronze-on-steel thrust plates
- Flexible configuration of shaft, flange, and ports
- One-piece steel gears with 12-tooth profile
- Heavy-duty, low-friction sleeve bearings
- Integrated dust protector
- High-strength ductile iron body and covers
- High-temperature Viton® rubber shaft seals
- Figure 8 monolithic high-temp load seals

The deck motors are capable of withstanding high pressure requirements for all-day mowing. Motors have Viton seals, which can withstand higher hydraulic temperatures. The motor contains a dust seal to help eliminate debris from entering into the hydraulic connections.



Deck motor



D Series deck motor

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## 2025 JOHN DEERE Z997R DIESEL NA

### Key Features

#### **Powerful diesel engine for increased performance**

The Z997R is powered by a 3-cylinder, liquid-cooled diesel engine with a gross 37.4 hp (27.5 kW) that meets U.S. Environmental Protection Agency (EPA) Final Tier 4 emission standards. The engine achieves Final Tier 4 compliance by using a diesel oxidation catalyst with diesel particulate filter (DOC/DPF) system.

The three-cylinder diesel engine features low noise levels, superior fuel economy, and a high torque reserve that provides plenty of power and performance.

Key features of the engine include:

- Economical, cast-in block cylinder design gives good cooling and long life.
- Liquid-cooled design provides more consistent operating temperatures than air-cooled.
- Direct fuel injection is provided.
  - Injects fuel directly on top of pistons for more efficient combustion
  - Develops more horsepower per gallon of fuel
  - Improves starting
- Aluminum alloy pistons with built-in steel struts are lightweight to reduce connection rod bearing loads and provide good heat-transfer characteristics.
  - Design permits tighter tolerances and neutralizes expansion of the piston, thereby reducing blow-by fuel and noise from the piston slap
  - Higher top rings on the piston and a thinner head gasket greatly reduce the volume of unburned waste and increase combustion efficiency
- Timing gears and injector drive gears utilize helical profile gears to help lower engine noise.
  - Gear teeth have a newly designed "roll-off" profile, giving almost no clash, no noise, and no backlash
- Fuel filter with replaceable element is provided.
- Full-pressure intake manifold provides quick starts in temperatures down to 0°F (-18°C).
- Auto-bleed fuel system gives extra convenience.
  - No need to prime the system if the unit runs out of fuel; the system will self-prime the injection pump, lines and injectors, providing fast fuel recovery
- Key start and shutoff eliminate fuel shut-off knob; electric solenoid shuts fuel supply off immediately when key is turned off.
- See-through coolant recovery tank permits operator to check coolant level without removing radiator cap.
- Sealed radiator compartment keeps trash and debris on outside of hood.
- Dual-element, dry-type air cleaner with safety element and air service indicator is provided.
  - Dual-element design for added engine protection
  - Easy to service
  - Completely sealed for effective cleaning and 90 to 95 percent of dirt ejected before it reaches the paper element
  - Secondary safety element for additional filtering
  - Air-restriction indicator to let operator know when the filter needs servicing
- Full-pressure lubrication with full-flow filter lengthens engine life.
  - Engine wear reduced by ensuring proper lubrication, even when operating on hillsides or uneven terrain
  - Oil filter helps keep oil clean for increased engine life
- Automotive-type alternator (75 amp) provides plenty of charge to the battery.
- Rear-mounted, covered radiator and fan keeps noise away from the operator and is easy to service.
- Isolated engine mounting reduces engine vibration at operator's station for more comfortable operation.

Quote ID :33063818

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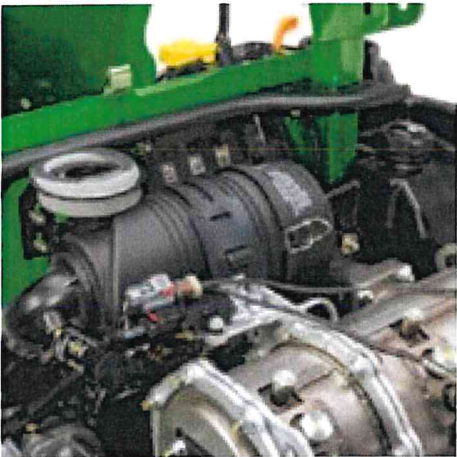
3-cylinder diesel engine



Convenient access to engine

Base Equipment On: Z997R

#### **Air cleaner filters out dust to extend engine life**



Engine air cleaner

The ZTrak™ Z997R Diesel Mower is equipped with a dual-element, canister-style air filter that is easily accessible from the rear of the machine without tools.

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

Base Equipment On: Z997R

#### **12-U.S. gal. (45.4-L) capacity fuel tank allows the operator to mow for a full day without refueling**

The Z997R Diesel ZTrak™ Mower is equipped with a single fuel tank, providing the following:

- 12-U.S. gal. (45.4-L) capacity allows the operator to mow for a full day without refueling.
- Large filler neck makes for easier refueling.
- Standard fuel gauge is provided.
- Top fuel draw provides added safety by reducing the chance fuel will leak out.

*NOTE: The fill level is 1 in. (25 mm) below the bottom of the filler neck.*

Quote ID :33063818

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Fuel tank and fuel gauge



Diesel fuel cap

Base Equipment On: Z997R

## Key Features

### **Two 7-Iron™ PRO Side-Discharge Mower Deck options for the Z997R give superior performance in every application**



Z997R with 72-in. (183-cm) 7-Iron PRO Mower Deck

There are two side-discharge mower-deck options available for the Z997R Diesel ZTrak Mower:

- The 60-in. (152-cm) 7-Iron PRO side-discharge deck is suited to a variety of mowing jobs, including trimming and grooming.
- The 72-in. (183-cm) 7-Iron PRO side-discharge deck is suited to a variety of mowing jobs, including trimming and grooming on larger properties.

Base Equipment On: Z997R

### **Extra reliability and long life with cast-iron blade spindle housings**

On every commercial mower deck there are three 1-in. (25-mm) spindles that are cold-forged and heat-treated for strength. Spindles are supported by precision ball bearings that provide great performance and reliability.

- Superior impact strength provided by ductile cast-iron material.
- Gusseted design puts reinforcement where it is needed.
- Strength of cast iron protects against damage from blade impacts.
- Easy access grease fittings are mounted at the top of the spindle shafts for convenience.
- Grease pressure-relief valve minimizes seal damage from overfilling with grease and keeps debris from entering housing.
- Chance of deck shell damage is minimized with the 8-in. (20.3-cm) diameter housing and six mounting bolts that distribute loads and impacts.
- Ability to be reliably rebuilt is provided by use of cast iron.

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Cast-iron mower spindle



Cast-iron mower spindle

Base Equipment On: Z997R

#### Shaft-drive mower deck is durable and reliable



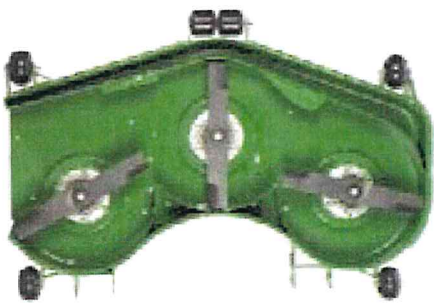
PTO shaft drive (shown on 997 model)

Mower decks are shaft driven. Benefits of using this type of system include:

- Live independent power take-off (PTO) powers the mower deck.
- PTO can be engaged or disengaged on the go for greater productivity.
- Hydraulic PTO clutch has delay relief valve for soft engagement.
- Wet clutch is designed for long life.
- PTO is easily accessible.
- 250-lb-ft (339-Nm), heavy-duty hydraulic clutch provides long life.
- Splined PTO shaft transfers power to the cast-iron gearbox.

Base Equipment On: Z997R

#### 60-in. (152-cm) 7-Iron PRO mower deck



60 in. (152-cm) 7-Iron  
PRO mower deck shown

Features include:

- Higher blade tip speed - approximately 18,000 fpm (5486 m/min) gives more blade strikes per distance of forward travel.
- Front baffle is designed to better manage airflow and control clippings.
- Ductile cast-iron blade-spindle housings have a gusseted design for extra reinforcement.
- Spindle-pocket reinforcement for even greater structural durability.
- A raised discharge chute provides even clipping distribution.
- 7-gauge, 0.179-in. (4.5-mm) steel construction gives commercial durability.
- 3-spindle design provides a smooth, even cut.
- The trim edge of the deck is equipped with a bumper that provides great abrasion resistance to protect the machine and the property.
- Plastic discharge deflector reduces damage to foliage and resists bending.
- Formed, steel-deck design is forged from a single sheet of steel to eliminate corners where grass can collect.
- Deep deck gives increased vacuum action that reduces dropped clippings.
- Shaft drive from engine to mower gives excellent reliability.
- Belt drive efficiently transfers power from gearbox to spindles.
- Grease fittings are greased from the top for easy access.
- Quick-change cutting-height adjustment is easy to use.
- Tricycler mulching kits are available.

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- Blade overlap of 1.57 in. (40 mm), nearly 0.79 in. (20 mm) greater than previous decks, reduces the number of missed grass blades.

Base Equipment On: Z997R

**72-in. (183-cm) 7-Iron PRO mower deck**


Z997R with 72-in. (183-cm) 7-Iron PRO mower

Features include:

- Higher blade tip speed - approximately 18,000 fpm (5486 m/min) gives more blade strikes per distance of forward travel.
- Front baffle is designed to manage airflow and control clippings.
- Spindle pocket reinforcement gives greater structural durability.
- Ductile cast-iron blade-spindle housings have a gusseted design for extra reinforcement.
- A raised discharge chute provides even clipping distribution.
- 7-gauge, 0.179-in. (4.5-mm) steel construction gives commercial durability.
- 3-spindle design gives a smooth, even cut.
- The trim edge of the deck is equipped with a bumper that provides great abrasion resistance to protect the machine and the property.
- Plastic discharge deflector reduces damage to foliage and resists bending.
- Formed, steel-deck design is forged from a single sheet of steel to eliminate corners where grass can collect.
- Deep deck gives increased vacuum action that reduces dropped clippings.
- Shaft drive from engine to mower gives excellent reliability.
- Belt drive efficiently transfers power from gearbox to spindles.
- Grease fittings are greased from the top for easy access.
- Quick-change cutting-height adjustment is easy to use.
- Tricycler mulching kits are available.
- Blade overlap of 1.57 in. (40 mm), nearly 0.79 in. (20 mm) greater than previous decks, reduces the number of missed grass blades.

Base Equipment On: Z997R

	<b>60-in. (152-cm)</b>	<b>72-in. (183-cm)</b>
	<b>Side-Discharge</b>	<b>Side-Discharge</b>
<b>Mower type</b>	7-Iron PRO - forged deck	7-Iron PRO - forged deck
<b>Mower compatibility:</b>		
Discharge	Side	Side
Mulching capability	Optional field-installed kit	Optional field-installed kit
Cut-height range	1.5-5 in. (3.8-12.7 cm)	1.5-5 in. (3.8-12.7 cm)
	0.25 in. (1.3-cm) increments	0.25 in. (1.3-cm) increments
Cutting width	60 in. (152 cm)	72 in. (183 cm)
Height-of-cut adjustment	Turning knob with foot assist	Turning knob with foot assist
<b>High lift blades:</b>		
Blade length	21 in. (53 cm)	25 in. (64 cm)
Blade width	3 in. (7.6 cm)	3 in. (7.6 cm)
Blade thickness	0.25 in. (6.35 mm)	0.25 in. (6.35 mm)
Blade tip speed	Approximately 18,000 fpm (5486 m/min)	Approximately 18,000 fpm (5486 m/min)

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Number of blades	Three	Three
<b>Blade spindles:</b>		
Bearings	Grade=ABEC-1	Grade=ABEC-1
Spindles	Cold-forged and heat-treated	Cold-forged and heat-treated
Spindle housings	Ductile cast-iron	Ductile cast-iron
<b>Wheels:</b>		
Front anti-scalp rollers	Standard	Standard
Rear anti-scalp rollers	Standard	Standard
<b>Deck construction</b>	One-piece forged steel	One-piece forged steel
<b>Deck thickness</b>	7-gauge steel 0.179 in. (4.5 mm)	7-gauge steel 0.179 in. (4.5 mm)

Base Equipment On: Z997R

**Mower decks are safety certified**



Z950M ZTrak Mower

Mowers decks are evaluated by the manufacturer (John Deere Turf Care) and conform to American National Standards Institute (ANSI) B71.4 2004 safety certification specifications for commercial turf care equipment.

Base Equipment On: Z997R

**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

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Z997R with 72-in. (183-cm)  
7-Iron PRO Mower Deck



Z997R with 72-in. (183-cm)  
7-Iron PRO Mower Deck

Base Equipment On: Z997R

### **Durable cast-iron rear bumper provides protection**



Cast-iron rear bumper

A cast-iron rear bumper is provided on the machine for rear protection. It also adds weight to give great hillside performance.

Base Equipment On: Z997R

## **Key Features**

### **Quality drive system provides longer life and less maintenance**

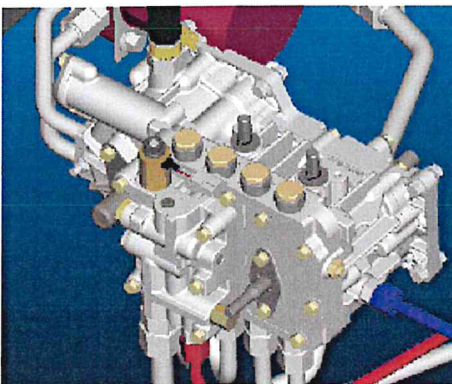


Illustration of Kanzaki dual-  
unitized hydraulic pump

The hydrostatic drive features a Kanzaki® DUP 17SB dual-unitized hydraulic pump. This dual pump, in a single housing, provides longer life and less maintenance than competitive units.

The pump features a shaft-driven fan for added cooling and longer component life. The swash-plate bearings are roller-type versus ball-type bearings for a longer overall pump life.

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Base Equipment On: Z997R

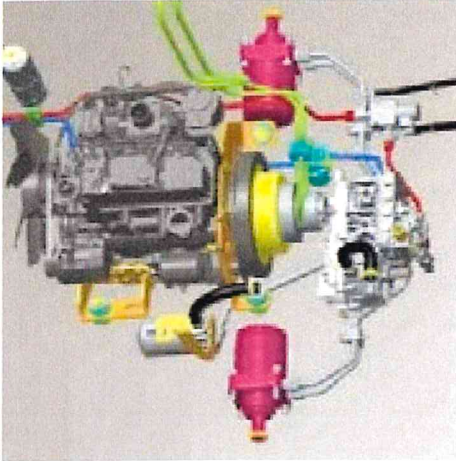


Illustration of transmission layout

The transmission module integrates the dual pumps and steering valves in one single housing. The pump is shaft-driven from the engine. An isolator ensures reduced vibration between the engine and the transmission module.

Two wheel motors are installed on the chassis to directly transfer power to both wheels. Commercial-grade, heavy-duty TG0310 18.9-cu in. (310-cc) wheel motors from Parker Ross, part of the Hydraulic Pump & Motor Division of Parker Hannifin®, are also important components of the overall drive system efficiency.

Rigid hydraulic lines are installed between the hydraulic module and wheel motors for long life.

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Base Equipment On: Z997R