



# Groundsmaster® 4000-D Specifications

GROUNDMASTER 4000-D (MODEL 30412)											
<b>ENGINE</b>	Kubota® V2403-M-T, 4-cylinder, liquid-cooled, turbo-charged diesel. 148.5 cu. in. (2.4 liter) displacement. Engine rated at 60 hp (45 kW) gross, 58 hp (43.3 kW) net and 125 ft.-lbs. torque at 2,000 rpm. 10 quart (9.5 liter) oil capacity.										
<b>AIR CLEANER</b>	Dry, replaceable primary and safety elements.										
<b>RADIATOR</b>	Rear-mount, 2 pass cross-flow, 7-row, 5 fins per inch, 13 quart (12.3 liter) capacity.										
<b>FUEL CAPACITY</b>	19 gallons (72 liters) diesel fuel. Biodiesel-Ready for use up to B-20 (20% biodiesel and 80% petrol blend).										
<b>TRACTION DRIVE</b>	Full-time, bi-directional, hydrostatic, closed-loop, 4WD transmission. Variable displacement piston pump with servo control powers fixed displacement piston motors which drive single reduction planetary gear assemblies at each front wheel. Parallel hydraulic flow powers fixed displacement piston motor which drives mechanical axle in rear. 2WD in forward (transport) range.										
<b>HYDRAULICS/COOLING</b>	8 gallon (30.3 liter) capacity with 2 micron remote spin-on filter. 19 row, single pass cooler that tilts out for cleaning. Variable speed radiator cooling fan with temperature activated auto-reverse feature.										
<b>DIAGNOSTICS</b>	Diagnostic pressure test ports: forward and reverse traction, left, center and right decks, reverse 4WD, lift, steering, charge and deck counterbalance circuits.										
<b>GROUND SPEED</b>	Transport: 0-15 mph (0-24.2 km/h) forward, 0-9 mph (0-14.4 km/h) reverse. Mow: 0-8 mph (0-12.4 km/h) forward, 0-4 mph (0-6.4 km/h) reverse.										
<b>TIRES</b>	Front: 26 x 12-12, 6-ply tubeless Multi-Trac. Rear: 20 x 10-10, 6-ply tubeless Multi-Trac.										
<b>MAIN FRAME</b>	All welded formed-steel frame with integral tie-down anchors.										
<b>BRAKES</b>	Mechanically actuated, internal wet disc brakes on input to each planetary drive. Individual foot-operated steering brake control of left and right wheel. Lock pedals together and latch to engage parking brake.										
<b>SEAT</b>	Adjustable.										
<b>STEERING</b>	Power steering with dedicated power source. Steering wheel tilts to desired operator position.										
<b>GAUGES</b>	Hour meter, fuel gauge, engine temperature gauge. Indicator lights for high temperature, oil pressure, alternator and glow plugs. Audible alarm for low oil pressure and high coolant temperature.										
<b>CONTROLS</b>	Tilt steering, ignition switch, throttle, foot-operated traction pedal, lockable individual brake pedals, parking brake lock, mow/transport speed selector switch, individual deck lift/lower levers, counterbalance adjustment, tow valve, cup holder, toolbox, radio holder, fan switch and 12-volt power outlet.										
<b>ELECTRICAL</b>	12-volt, 690 cold cranking amps battery, 40 amp alternator. Overload protection with automotive type fuses.										
<b>INTERLOCKS</b>	Prevents engine from starting unless traction pedal is in neutral and deck is disengaged. If operator leaves seat with deck engaged, engine stops. Mowing only permitted in low range. Engine stops if parking brake engaged and traction pedal not in neutral. Deck transport latches.										
<b>GROUND CLEARANCE</b>	6.5" (16.5 cm)										
<b>OVERALL DIMENSIONS</b>	<table border="1"> <thead> <tr> <th>Height</th> <th>Length</th> <th>Width</th> <th>Transport Width</th> <th>Wheelbase</th> </tr> </thead> <tbody> <tr> <td>81" (206 cm) w/ROPS</td> <td>135" (343 cm) w/decks down</td> <td>136" (346 cm) w/decks down</td> <td>71" (180 cm) @ 2" (5 cm) HOC</td> <td>55.5" (140 cm)</td> </tr> </tbody> </table>	Height	Length	Width	Transport Width	Wheelbase	81" (206 cm) w/ROPS	135" (343 cm) w/decks down	136" (346 cm) w/decks down	71" (180 cm) @ 2" (5 cm) HOC	55.5" (140 cm)
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<b>WEIGHT</b>	4,166 lbs. (1889 kg) w/ full fluids and without cab.										
<b>OPTIONS</b>	Work light kit, model 30442 (Consists of dual taillights, dual headlights, slow moving vehicle sign, turn signal, flasher and lights). Cruise control kit, model 30421. A/C mounting kit, model 30444. Air conditioner, 90 amp electrical alternator, PN 115-8473										
<b>CERTIFICATION</b>	Complies with American National Standards Institute (ANSI B71.4-2004) and applicable CE (machine directive 89/392, 91/368, 93/44, 84/538, 89/336) requirements.										
<b>WARRANTY</b>	Two-year limited warranty. Refer to Operator's Manual for further details.										
CUTTING DECKS											
<b>WIDTH OF CUT</b>	Overall: 132" (335 cm), Front: 62" (157.5 cm), Wings: 42" (106.7 cm), Overlap: 7" (12.8 cm).										
<b>MOWING RATE</b>	Mows up to 10.6 acres/h (4.3 hectares/h) at 8 mph (12.4 km/h) (assumes no overlap or stops).										
<b>CONSTRUCTION</b>	Welded steel with steel channel and plate reinforcements.										
<b>DECK DRIVE</b>	Direct mounted hydraulic motor into spindle. Remaining spindle(s) driven by individual B section kevlar belt. Quick release belt covers.										
<b>HEIGHT-OF-CUT</b>	1"-5" (25-127 mm) in .5" (13 mm) increments.										
<b>SPINDLES</b>	1.25" (3.17 cm) diameter spindle shafts, 9" (22.9 cm) diameter conical ductile iron housing, and 2 greaseable tapered roller bearings.										
<b>BLADES</b>	21.75" (55.2 cm) long, 2.5" (6.4 cm) wide, .25" (.64 cm) thick.										
<b>CASTER WHEELS</b>	8 x 3.50-4, 4-ply, smooth, pneumatic, sealed precision ball bearings.										
<b>GROUND FOLLOWING</b>	6" anti-scalp cups on each blade, adjustable skids on each deck, 4 anti-scalp rollers on front deck and 1 on each wing.										
<b>WING PROTECTION</b>	Bi-directional, impact absorption device on each wing deck.										
<b>RECYCLER® KIT</b>	Model 30420 will convert decks into Guardian® Recycler® decks.										
<b>MULCHING KIT</b>	Model 30422.										

\*Specifications and design subject to change without notice.  
The Toro Company does not manufacture or sell the air conditioner, nor does Toro guarantee this accessory in any manner whatsoever.

The Groundsmaster 4000-D is manufactured in Tomah, WI ISO 9002 Certified Plant.





# Groundsmaster® 4000-D Attachment Specifications\*



DEBRIS BLOWER, MODEL 30425	
<b>FAN OUTPUT</b>	5000 cfm, 165 mph.
<b>OUTLET</b>	Adjustable outlet opening, 39-70 in <sup>2</sup> (251.6-451.6 cm <sup>2</sup> ).
<b>DIRECTIONAL CONTROL</b>	90° outlet deflector operated from seat.
<b>HEIGHT ADJUSTMENT</b>	4"-6.5" (10.2-16.5 cm). Adjustment is with .5" (1.3 cm) spacers and holes in castor fork.
<b>CASTOR WHEELS</b>	Two 8" (20.3 cm) x 3.5" (8.9 cm) solid rubber tires.
<b>TRANSPORT GROUND CLEARANCE</b>	11.25" (28.6 cm)
<b>FAN SPEED</b>	2575 rpm
<b>FAN</b>	Backward curved, cast aluminum (356-T6 material) fan. 12 blades per side, 21" (53.3 cm) outside diameter, 6.375" (16.2 cm) width, 34 lbs. (15.4 kg).
<b>FAN HOUSING</b>	10-gauge steel face plates welded to 14-gauge wrapper. Eight degree increasing scroll from cutoff.
<b>FAN DRIVE</b>	Gear motor directly coupled to fan shaft via Rotex coupling. 1.25" (3.2 cm) diameter fan shaft rotates on 2 greaseable ball bearings.
<b>WEIGHT</b>	321 lbs. (145.7 kg)
<b>OPTIONS</b>	180° deflector kit P/N 95-5909.
ROTARY BROOM, MODEL 30426	
<b>BRUSH FILAMENT MATERIAL</b>	Virgin polypropylene, high carbon wire, or a combination of both.
<b>BRUSH DIAMETER</b>	Uses 24" (61 cm) brush elements.
<b>OSCILLATION ANGLE</b>	8°
<b>SWEEPING WIDTH ANGLE</b>	Brush swings 25° in both directions, 70.5" (179 cm) sweeping width at center position, 64" (162.6 cm) minimum sweeping width at full swing left or right.
<b>CASTOR WHEELS</b>	Two 8.0" x 3.5" (20.3 x 8.9 cm) pneumatic rubber tires.
<b>GROUND CLEARANCE</b>	6" (15.2 cm)
<b>BRUSH SPEED</b>	220 rpm, no load.
<b>BRUSH GROUND PRESSURE ADJUST</b>	Adjustment is .5" (1.3 cm) spacers and holes in castor fork.
<b>HYDRAULIC/MECHANICAL BRUSH DRIVE</b>	Ross 6.10 cubic inch roller vane motor drives directly into 16 tooth sprocket. 40 tooth sprocket mounts on brush shaft. One 60# chain connects motor and brush.
<b>BRUSH SWING CONTROL</b>	A 2" (2.1 cm) bore, 15" (38.1 cm) stroke, swing cylinder is connected in parallel with hydraulic brush drive. The cylinder is controlled by a 3-position, closed center, 4-way solenoid directional valve. A 6 mm grade 8.8 shear bolt connects rod end of cylinder to 4-bar linkage.
<b>ELECTRICAL CONNECTION</b>	Wire harness kit required – P/N 95-3263.
<b>WEIGHT</b>	567 lbs. (257.4 kg).
<b>OPTIONS</b>	High carbon wire brush filament P/N 95-5942. Deflector kit P/N 95-7496.
SUNSHADE	
<b>UNIVERSAL MOUNT</b>	Model 30359

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# Groundsmaster® 4000-D Attachment Specifications\*(continued)



	BOXER CAB**
<b>CONSTRUCTION</b>	ROPS solid-welded steel frame. Composite roof and body panels.
<b>STANDARD FEATURES</b>	Curved clear tempered glass windshield, 2-speed pantograph windshield wiper, all-glass doors, emergency exit windows, opening windows, fixed windows, upholstered cab interior, overhead console, domelight, cup holder.
<b>OPTIONAL FEATURES</b>	Air conditioning/heater (Jodale Perry model 80087). Requires Toro A/C mounting kit, model 30444 and 90 amp electrical alternator, PN 115-8473. 4-way flasher, rear wiper, windshield washers, exterior mirrors, pressurized fan/heater, air conditioning unit, interior rearview mirror, sun shade, 12-volt auxiliary outlet, AM/FM Cassette Stereo, AM/FM CD Stereo and storage pack.

SNOW THROWER
No longer supplied by Loftness. Toro is currently working with a new supplier on this accessory.

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\*\*Manufactured by Jodale Perry.

The Toro Company does not manufacture or sell the cabs or snowthrower, nor does Toro guarantee these accessories in any manner whatsoever.

