



# Groundsmaster® 3280-D

SMALL AREA ROTARY MOWER

## FEATURES

- Kubota® 24.8 hp (18.5 kW) Diesel Engine
- 2 and 4-Wheel Drive Models Available
- Guardian® Recycler®, Side or Rear Discharge Cutting Decks
- Width of Cut Options - 52 inch (132cm) to 72 inch (183 cm)
- Safety Cab (heat only; optional)



High-Lift Collection System (optional)

## Power to perform.

The Groundsmaster 3280-D is everything an all-purpose mower should be. The 3280-D packs a 24.8 hp (18.5 kW) Kubota® diesel engine that tackles the toughest jobs with power to spare. The proven PTO drive system delivers power to the cutting deck and optional attachments smoothly and efficiently for long life. Available 4WD plus an innovative counter balance system provide secure footing on any terrain.

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# Groundsmaster® 3280-D Specifications



GROUNDMASTER 3280-D, 2WD - MODEL 30344 GROUNDMASTER 3280-D, 4WD - MODEL 30345																									
<b>ENGINE</b>	Kubota; 3-cylinder, liquid-cooled diesel. Power: 24.8 hp (18.5 kW) gross, at rated speed of 3000 rpm. Torque peak: 71.5 (52.7) Nm (lbs-ft) @ 2200 rpm. Displacement: 1123cc. High idle: 3200 rpm no load (uninstalled) 3100-3200 installed. Remote-mounted 5" Donaldson air cleaner. Fuel filter/water separator. EPA Tier IV Final Compliant.																								
<b>FUEL CAPACITY</b>	11.3 gallon (42.8 liter), diesel fuel. 2008 and newer models Biodiesel-Ready for use up to B-20 (20% biodiesel and 80% petroleum blend).																								
<b>GAUGES &amp; PROTECTION SYSTEMS</b>	Hour meter, fuel gauge, 4 light warning cluster gauge: oil pressure, water temperature, amps and glow plug. High water temperature shut-down. Hood lock, foldable ROPS.																								
<b>RADIATOR</b>	Mid-mounted industrial radiator construction, 8.5 fins per inch. Approx. 7 quart (6.6 liter) capacity. Remote mounted 1 quart (.95 liter) expansion tank.																								
<b>TRACTION DRIVE</b>	Hydrostatic U-type transmission with single pedal control of forward/reverse ground speed. 25 micron replaceable filter. Axle serves as reservoir for hydrostatic transmission; also serves the power steering and lift valve. Approx. lubrication capacity: 6 quarts (5.7 liters). <b>4WD:</b> Rear axle is mechanically driven from front axle by a universal shaft. An on-demand, bi-directional overrunning clutch prevents rear tire scuffing in turns and maintains turning radius, same as in 2-wheel drive mode. Approx. 3.1 quart (2.9 liter) gear lubricant capacity.																								
SPECIFICATIONS COMMON TO GROUNDMASTER 3280-D & 3320 SERIES																									
<b>GROUND SPEED</b>	0-10 mph (0-16.1 km/h), infinitely variable.																								
<b>MAIN FRAME</b>	All welded formed steel.																								
<b>TIRES/WHEELS/ PRESSURE</b>	Two front traction drive tires-23 x 9.5-12 with demountable rims. Two rear steering tires: 2WD: 16 x 6.5-8; <b>4WD:</b> 18 x 6.5-8. All tires are tubeless and 4-ply rated. Recommended tire pressure: 20 psi (138 kPa). Optional Wide Tire w/ Rim, 23 x 10.5-12, Part No. 119-2864, 4-ply, or 69-9880, 6-ply.																								
<b>BRAKES</b>	Individual 7" x 1.75" (17.8 cm x 4.4 cm) drum type wheel brakes and parking brakes on front traction wheels. Dynamic braking through traction drive.																								
<b>SEAT &amp; SUSPENSION</b>	Deluxe seat with adjustable fore/aft travel, Model 30398. Requires air ride, Model 30313, or mechanical seat suspensions, Model 30312. Adjustable for height and weight. Available armrests model 30707: required Part No. 108-9687 Armrest adapter kit. 12V Power Port/Electrical Accessory Kit, Model 30382, required for use of air ride seat suspension.																								
<b>STEERING</b>	Hydraulic power steering. 14" (36 cm) tilt steering wheel, released and locked by a single lever control.																								
<b>OPERATOR AREA</b>	Multi-tiered beverage holder, storage box, retractable seatbelt, and available 12V power port Model 30382.																								
<b>IMPLEMENT DRIVE</b>	1" (2.5 cm) diameter PTO shaft clutched by a torque-teamed "HA" section V-belt. PTO engaged by electric clutch/brake. Connection to implement is with a universal joint and telescoping shaft assembly.																								
<b>IMPLEMENT LIFT</b>	Twin 2.75" hydraulic cylinders operate lift arms. Hydraulic counter balance for greater stability and traction.																								
<b>CONTROLS</b>	Foot-operated traction and brake pedals. Hand-operated throttle, PTO switch, brake lock, implement lift switch, ignition switch and glow plugs.																								
<b>ELECTRICAL FEATURES</b>	12-volt maintenance free battery with 530 cold cranking amps at 0° F (-18° C), 80 minute reserve capacity at 80° F (27° C). 40 amp alternator with I.C. regulator/rectifier. 2 amp standard control module log circuit. Seat switch, PTO, traction and parking brake interlock switches. Easy access to fuse panel. Available 12V Power Port/Electrical Accessory Kit, Model 30382.																								
<b>DIMENSIONS &amp; WEIGHT</b>	<table border="1"> <thead> <tr> <th></th> <th>Width</th> <th>Length</th> <th>Height w/ROPS Down</th> <th>Height w/ROPS Up</th> <th>Height w/Winter Only Cab</th> <th>Dry Weight</th> <th>Wheelbase</th> </tr> </thead> <tbody> <tr> <td><b>GM3280-D 2WD</b></td> <td>47" (119 cm)<sup>[1]</sup></td> <td>83.5" (212 cm)</td> <td>56" (142 cm)</td> <td>77" (195 cm)</td> <td>89.5" (227.3 cm)</td> <td>1,340 lbs. (608 kg)</td> <td>46" (117 cm)</td> </tr> <tr> <td><b>GM3280-D 4WD</b></td> <td>47" (119 cm)<sup>[2]</sup></td> <td>85" (216 cm)</td> <td>56" (142 cm)</td> <td>77" (195 cm)</td> <td>89.5" (227.3 cm)</td> <td>1,520 lbs. (690 kg)</td> <td>47.5" (121 cm)</td> </tr> </tbody> </table>		Width	Length	Height w/ROPS Down	Height w/ROPS Up	Height w/Winter Only Cab	Dry Weight	Wheelbase	<b>GM3280-D 2WD</b>	47" (119 cm) <sup>[1]</sup>	83.5" (212 cm)	56" (142 cm)	77" (195 cm)	89.5" (227.3 cm)	1,340 lbs. (608 kg)	46" (117 cm)	<b>GM3280-D 4WD</b>	47" (119 cm) <sup>[2]</sup>	85" (216 cm)	56" (142 cm)	77" (195 cm)	89.5" (227.3 cm)	1,520 lbs. (690 kg)	47.5" (121 cm)
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<b>CLEARANCE</b>	Front ground clearance: 6" (15.2 cm), <b>4WD:</b> rear ground clearance of 4.25" (10.8 cm).																								
<b>WARRANTY</b>	Two-year limited warranty. Refer to the Operator's Manual for further details.																								
<b>CERTIFICATION</b>	Certified to meet the American National Standard Institute's (ANSI) specifications, B71.4-2004 and applicable Federal and State regulations based thereon.																								

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Actual products offered for sale may vary in use, design, required attachments and safety features. See distributor for details on all warranties.

[1] Measured from outside of front tires.

[2] Measured from outside of rear tires.





# Groundsmaster® 3280-D Accessories Specifications

	FULL FLOTATION CUTTING UNITS		
	72" SIDE DISCHARGE MODEL 31336	72" BASE DECK CONFIGURATION MODEL 30404, WITH 72" REAR DISCHARGE COMPLETION KIT (30303)	72" GUARDIAN® RECYCLER® (31335)
<b>TYPE</b>	72" (183 cm) width of cut, three blade, front mounted rotary. Adjustable front baffle. Side discharge.	72" (183 cm) width of cut, three blade, baffle. front mounted rotary. Rear discharge.	72" (183 cm) width of cut, three blade, front mounted rotary. Recycling with vertical discharge.
<b>TRIMABILITY</b>	Offset 7.1" (18 cm) to the left; 37.9 (96 cm) uncut circle left. Deck overhang: 19.7" (50 cm) from outside of wheel to left trim side. Uncut circle with use of wheel brakes: 0".	Deck offset to the left from centerline: 5.50" (14 cm). Deck trim width from outside of standard traction tire to trim side - left: 17.4" (44 cm). Uncut circle with use of wheel brakes: 0".	Deck offset to left from centerline: 7" (18 cm). Deck trim width from outside of standard tire to trim side - left: 17.4" (44 cm). Uncut circle with use of wheel brakes: 0".
<b>CONSTRUCTION</b>	Welded 7-gauge steel, 5.5" (14 cm) deep. 5/16" (8 mm) rubber discharge chute (30368 model only).		
<b>HEIGHT OF CUT</b>	1.0-5" (2.5-12.7 cm) adjustable front and rear in .5" (12.7 mm) increments with spacers on the front caster shafts.		
<b>MOWING RATE<sup>[1]</sup></b>	Mows up to 3.6 acres/h (1.46 hectares/h) at 5 mph (8 km/h).		
<b>SPINDLE ASSEMBLY</b>	Ductile cast iron 9" (23 cm) diameter conical spindle housing; Dual greaseable tapered roller bearings; Spindle shaft is 1.25" (3.2 cm) diameter, solid cold finished steel, and splined connection between spindle shaft and pulley; Welded blade retainer plus anti-scalp cups.		
<b>CUTTER DRIVE</b>	Isolation mounted, splined PTO-driven gearbox transfers power to three separate spindles via two separate "B" section belts.		
<b>BLADES</b>	Three 24.5" (62 cm) long, .25" (6 mm) thick, 2.5" (6 cm) wide heat-treated steel blades.	Three 25.18" (64 cm) long, .25" (6 mm) thick, 2.5" (6 cm) wide heat-treated steel blades.	Three 25.18" (64 cm) long, .25" (6 mm) thick, 2.5" (6 cm) wide heat-treated steel blades.
<b>OPTIONAL BLADES</b>	High Flow and Atomic		
<b>SUSPENSION</b>	Independent, 2.5" (6.4 cm) square tubing, lift/push arms each attached to separate castor arms.		
<b>CASTER WHEELS</b>	Two rear 6" (15.2 cm) diameter castor tires. Two front 8.0 x 3.5 pneumatic tires (foam filled optional) with tubes and maintenance free bearings. Tensioning caps, made from impact modified thermoplastic alloy, are used to hold the castor wheels on the castor arms.	Two front 8.0 x 3.5 pneumatic tires (foam filled optional) with tubes and maintenance free bearings. Tensioning caps, made from impact modified thermoplastic alloy, are used to hold the castor wheels on the castor arms.	Two rear 6" (15.2 cm) diameter castor tires. Two front 8.0 x 3.5 pneumatic tires (foam filled optional) with tubes and maintenance free bearings. Tensioning caps, made from impact modified thermoplastic alloy, are used to hold the castor wheels on the castor arms.
<b>ANTI-SCALP FEATURES</b>	Six anti-scalp rollers. Anti-scalp cup located on each blade. Plastic replaceable skid on trim side.	Five anti-scalp rollers. Anti-scalp cup located on each blade. Plastic replaceable skid on each side.	Anti-scalp cup located on each blade. Six anti-scalp rollers. Plastic replaceable skid on each side.
<b>DECK COVERS</b>	Quick-release type latches. (Tools required for EU)		
<b>LIFT ARMS</b>	Independent lift arms and hydraulic weight transfer provide deck flotation.		
<b>WEIGHT</b>	530 lbs. (240 kg)	441 lbs. (200 kg)	491 lbs. (223 kg)
<b>OPTIONAL EQUIPMENT</b>	Rear Weight Kit, High Tip Speed Kit, Recycler Kit, Leaf Mulcher Kit.	Rear Weight Kit, Bahia Tall Grass Kit.	Fine Recycler Completion Kit (30346). Rear Weight Kit, Bahia Tall Grass Kit.
<b>CERTIFICATION</b>	Cutting unit meets specification of American National Standard ANSI B71.4-2004, Safety Specifications for commercial turf care equipment. Cutting unit meets specifications of European standard EN836, CE approved.		

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[1] Mowing rate is dependent on conditions.





# Groundsmaster® 3280-D Accessories Specifications\* (continued)

	FULL FLOTATION CUTTING UNITS		
	60" SIDE DISCHARGE MODEL 30366	62" BASE DECK CONFIGURATION GUARDIAN® RECYCLER® OR REAR DISCHARGE, MODEL 30403	52" SIDE DISCHARGE MODEL 30555
<b>TYPE</b>	60" (152 cm) width of cut, 3-blade, front mounted rotary. Adjustable front baffle. Side discharge.	62" (157 cm) width of cut, 3-blade, front mounted rotary. Recycling with vertical discharge or rear discharge.	52" (132 cm) width of cut, 3-blade, front mounted rotary. Side discharge.
<b>TRIMABILITY</b>	Offset 4.33" (10.9 cm) to the left; 42.6" (108.2 cm) uncut circle left. Deck overhang: 11.17" (28.4 cm) from outside of wheel to left trim side.	Offset 2.75" (6.9 cm) to the left; 44.5" (113 cm) uncut circle left. Deck overhang: 10.43" (26.5 cm) from outside of wheel to left trim side.	Deck offset from outside of wheel to left trim side: 10.25" (26 cm). Uncut circle left: 26" (66 cm). Uncut circle with use of individual wheel brakes: 0".
<b>CONSTRUCTION</b>	7-gauge steel 5.5" (13.97 cm) deep; welded construction. 5/16" (8 mm) rubber discharge chute.	7-gauge steel 4.25" (10.8 cm) deep, welded construction.	12-gauge formed steel construction with integral structural ribs, 7-gauge welded support brackets 5" (12.7 cm) deep Wind-Tunnel® housing. Steel discharge chute.
<b>HEIGHT OF CUT</b>	1" to 5" (2.5 cm to 12.7 cm) adjustable .5" (12.7 mm) increments with spacers on the front and rear castor shafts. Adjustable HOC links for rear of deck.		Adjustable in .5" (12.7 mm) increments by repositioning 4 clevis pins holding the deck suspended from carrier frame hanger brackets. Height of cut range: 1" to 4" (2.5 to 10.2 cm)
<b>MOWING RATE<sup>(1)</sup></b>	Mows up to 3.0 acres/h (1.22 hectares/h) at 5 mph (8 km/h).	Mows up to 3.1 acres/h (1.25 hectares/h) at 5 mph (8 km/h).	Mows up to 2.6 acres/h (1.1 hectares/h) at 5 mph (8 km/h).
<b>SPINDLE ASSEMBLY</b>	Ductile cast iron 9" (23 cm) diameter conical spindle housing; Dual greaseable tapered roller bearings; Spindle shaft is 1.25" (3.2 cm) diameter, solid cold finished steel, and splined connection between spindle shaft and pulley; Welded blade retainer plus anti-scalp cups.		
<b>CUTTER DRIVE</b>	Isolation mounted, splined PTO-driven gearbox transfers power to three separate spindles via two separate "B" section belts.		PTO shaft driven, isolation mounted gearbox with 1.25:1 spiral bevel gears. Gearbox pulley drives a single "AA" section belt to 3 spindles, self-tensioned with a rubber torsion idler arm and riveted steel idler pulley with ag-type wiper seal and bearing.
<b>BLADES</b>	Three 20.5" (52 cm) long, .25" (6 mm) thick, 2.5" (6.35 cm) wide, heat-treated steel blades. Optional Atomic™ Mulching Blade (110-4703).	Three 21.75" (55 cm) long, .25" (6 mm) thick, 2.5" (6.35 cm) wide, heat-treated steel blades. Optional Atomic Mulching Blade (107-0214).	Three 18" (46 cm) long, 2.5" (6.3 cm) wide, .19" (5 mm) thick, heat-treated steel blades. Optional Atomic Mulching Blade, P/N 104-1301.
<b>CARRIER FRAME SUSPENSION</b>	Independent, 2.5" square tubing, lift/push arms each attached to separate castor arms.		Mower freely suspended in carrier frame. Height of cut bracket design and flexible carrier frame enhance cutting unit flotation and ground following capability.
<b>CASTER WHEELS</b>	Front: Two 8.0" x 3.5" (20.3 cm x 8.9 cm) pneumatic tires (foam filled optional) with tubes and maintenance-free bearings. Tensioning caps made from impact modified thermoplastic alloy – are used to hold the castor wheels on the castor arms.		Pneumatic, 8" turf tread tires, 8 x 3-4 regreaseable roller bearings and heavy duty bushings rotating on a replaceable spanner. (Optional Phenolic Caster Wheel Assembly, P/N 27-1050; two required.)
<b>ANTI-SCALP FEATURES</b>	6 rollers. Anti-scalp cup located on each blade spindle. Plastic skid on trim side.	5 rollers on Rear Discharge Deck, 6 rollers on Guardian Deck. Anti-scalp cup located on each blade spindle. Plastic skid on each side.	4 anti-scalp roller. Anti-scalp cup located on each blade spindle.
<b>DECK COVERS</b>	Quick-release type latches; no tools required. (Tools required for E.U.)		
<b>LIFT ARMS</b>	Independent lift arms and hydraulic weight transfer provide deck flotation.		High strength lift arms with mounting provision for quick attach-detach of mower carrier frame or other attachments.
<b>OPTIONAL EQUIPMENT</b>	Rear Weight Kit, Collection System, High Tip Speed Kit, Striping Kit, Leaf Mulcher Kit, High Flow Blade (110-4702).	Required Equipment: 62" Rear Discharge Deck Completion Kit (30305) or 62" Recycler Deck Completion Kit (30306)	
		Rear Discharge Conversion Kit, Guardian Recycler Conversion Kit, Rear Weight Kit, Bahia Tall Grass Kit.	Rear Weight Kit, Collection System, High Sail Blades (44-5480, 56-2390-03)
<b>CERTIFICATION</b>	Cutting unit meets specification of American National Standard ANSI B71.4-2004, Safety Specifications for commercial turf care equipment.  Cutting unit meets specifications of European standard EN836, CE approved, except some blades and the High Tip Speed Kit.	Cutting unit meets specification of American National Standard ANSI B71.4-2004, Safety Specifications for commercial turf care.  Cutting unit meets specifications of European standard EN836, CE approved.	Certified to meet the American National Standard Institute's (ANSI) specifications, B71.4-2004 and applicable Federal and State regulations based equipment thereon.

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# Groundsmaster® 3280-D Attachments Specifications\* (continued)

GM300 DEBRIS BLOWER RETROFIT KITS	
Converts model 30855 for the GM3280-D/ 3320. Required kits are the following: PN 110-8539: Blower Adapter Kit, and PN 110-8540: Attachment Frame Kit.	

DEBRIS BLOWER, MODEL 30823	
<b>POWER SOURCE</b>	Groundsmaster 3280 tractor's-PTO drive. Belt drive.
<b>HITCH/MOUNT</b>	Out-front design for Groundsmaster tractors (requires Attachment Frame Kit, PN 110-8540).
<b>FRAME</b>	All welded steel construction.
<b>BEARINGS</b>	2 self-sealed, self-aligning.
<b>IMPELLER</b>	12 blades, reversed curve, 21" (53.3 cm) diameter, sandcast aluminum.
<b>AIR MOVEMENT</b>	130 mph (209 km/h)@ 2700 rpm, 3650 cfm
<b>DIRECTIONAL CHUTE</b>	All steel, over-center locking, spring tension control, operated from tractor seat.
<b>DIMENSIONS</b>	Length 46" (117 cm)    Width 35.6" (90 cm)    Height 34.9" (89 cm)
<b>SHIPPING WEIGHT</b>	300 lbs. (136 kg)

ROTARY BROOM M-B MODEL MCT**	
<b>TYPE</b>	<b>MECHANICAL</b> Windrow type, front mounted mechanical drive broom. Hydraulic angling, 30 degrees left and right.
<b>SWING</b>	Swing pivot point inline with 50 degree CV joint
<b>BROOM SIZE</b>	25" (63.5 cm) diameter brush, 60" (152 cm) width.
<b>BRUSH</b>	Sectional brush with choice of polypropylene, wire or combination radial segments.
<b>SHIPPING WEIGHT</b>	60" Broom: 500 lbs., (227 kg).
<b>OPTIONS</b>	Hydraulic Swing Cylinder, Dirt Deflector, Storage Stands.

SUNSHADE	
<b>UNIVERSAL MOUNT</b>	Model 30349
<b>BIMINI CANVAS</b>	Model 30358

V-PLOW, MODEL 30750	
<b>CUTTING WIDTH</b>	48" (121.9 cm)
<b>HITCH/MOUNT</b>	Out-front design for Groundsmaster tractors. Required kits are the following: V-Plow Mounting Kit, PN 115-4917 and Attachment Frame Kit, PN 110-8540.
<b>CONSTRUCTION</b>	All welded steel.

CAB, MODEL 30298 (Available June 2015)	
<b>BODY/FRAME</b>	ROPS certified cab (ISO 21299); rubber sound isolator cab mounts; fold away exterior side mirrors. (Optional road light kit and rotating beacon kit available.)
<b>GLASS</b>	Full glass rear window and both doors, tinted (50%); front and rear windows open and act as an emergency exit using quick release latch. Heavy-duty pantograph front windshield wiper and washer.
<b>INTERIOR</b>	Interior mirror, upholstered panels, textured TPE ripple rubber floor mat, dome light.
<b>HVAC</b>	Pressurized heater/fan.
<b>SAFETY CERTIFICATIONS</b>	American National Standards Institute (ANSI B71.4-2012) and applicable ISO EN 5395 (CE) (machine directive 89/392, 91/368, 93/44, 84/538, 89/336) requirements; Optional lights. Meets ANSI/ASAE 5279.12 (Lighting and Marking of Agricultural Equipment on Highways).

SNOWTHROWER ERSKINE MODEL 1600***	
<b>STAGE</b>	2
<b>WIDTH OF CUT</b>	53" (135 cm)
<b>CUTTING HEIGHT</b>	22" (56 cm)
<b>CUTTING EDGE</b>	51" (130 cm) bolt-on
<b>SKID SHOES</b>	Adjustable/Hardened
<b>AUGER DIAMETER</b>	12" (30 cm) open flight
<b>FAN DIAMETER</b>	16" (41 cm)
<b>CHUTE ROTATION</b>	Hydraulic
<b>SHEAR PROTECTION</b>	Pressure relief
<b>CASTING DISTANCE</b>	Up to 25' (7.62 m)
<b>APPROXIMATE SHIPPING WEIGHT</b>	418 lbs. (190 kg)
<b>HOSES</b>	Included

15 CU. FT. HI-LIFT HOPPER COLLECTION SYSTEM, MODEL 30356	
<b>CONFIGURATION</b>	A turf collection system consisting of a pivoting three-point, quick detach mounting structure that supports the lift linkage and hydraulically raises to dump collected clippings.
<b>WHEEL WEIGHT</b>	75 lb. (34 kg) wheel weight mounts to the left front wheel to offset RH hopper weight.
<b>HOPPER CAPACITY</b>	15 cu. ft. (440 liters)

52" BLOWER KIT, MODEL 30502 60" BLOWER KIT, MODEL 30357	
<b>BLOWER ASSEMBLY</b>	Blower assembly housing is 16" (41 cm) diameter; welded construction. The blower assembly attaches to the cutting unit's discharge port and is belt driven from the cutting unit. Impeller speed is 1800 rpm at 3200 rpm engine speed. Impeller shaft bearing is outboard mounted.
<b>DECK BAFFLES</b>	Steel baffles mount under deck housing to direct clippings into blower.
<b>BUMPER</b>	Bumper of steel tubing is bolted to deck suspension frame to protect blower housing.

Note: Use with high lift collection system

\* Information regarding non-Toro (Allied Vendor) products is included in the Toro Golf and Grounds Equipment Guide as a convenience to Toro customers. Toro does not warrant, endorse or support any products purchased from Allied vendors. Additionally, Toro shall not be responsible for any personal injury or property damage, whether direct or consequential, caused by such Allied products. Toro does not certify fit up, compatibility or functionality of Allied products.

\*\*Manufactured by M-B Companies, Inc.

\*\*\*Manufactured by Erskine. Depending on mower configuration, an auxiliary valve kit (Toro model 110-5670) must be added to the tractor. Addition wheel weights may be required. The Toro Company does not manufacture or sell the snowthrower, nor does Toro guarantee these accessories in any manner whatsoever.

