ENGINE	540G-II	640G-II
Type	John Deere 6068T with altitude-compensating, spark-arresting turbocharger	John Deere 6068T with altitude-compensating, spark-arresting turbocharger
Rated power	119 SAE net hp (89 kW) / 127 SAE gross hp (95 kW) @ 2,200 rpm	153 SAE net hp (114 kW) / 160 SAE gross hp (119 kW) @ 2,200 rpm
Cylinders	6	6
Displacement	414 cu. in. (6.8 L)	414 cu. in. (6.8 L)
Maximum net torque	39% @ 1,400 rpm 398 lb.-ft. (537 Nm)	36% @ 1,350 rpm 497 lb.-ft. (670 Nm)
Fuel consumption, typical	3.7 to 5.5 gal./hr. (14 to 21 L/h)	4.6 to 6.9 gal./hr. (17 to 26 L/h)
Air cleaner	dual stage with safety element and dust unloader valve	dual stage with safety element and dust unloader valve
Cooling system	heavy-duty radiator with in-line core coolant recovery reservoir	heavy-duty radiator with in-line core coolant recovery reservoir
Cooling fan	blower	blower
Lubrication	pressure system with oil cooler	pressure system with oil cooler
Oil filter	vertically mounted spin on	vertically mounted spin on
Electrical system	12 volt with 65-amp alternator	12 volt with 65-amp alternator
Batteries (two 12 volt)	reserve capacity: 360 min., 1,850 CCA	reserve capacity: 360 min., 1,850 CCA

TRANSMISSION		
Type	direct-drive power shift, planetary	direct-drive power shift, planetary
Oil filtration	10 micron pressure side with by-pass	10 micron pressure side with by-pass

AXLES		
Final drives	heavy-duty planetary, mounted inboard	heavy-duty planetary, mounted inboard
Differentials	hydraulic locking, operated on the go	hydraulic locking, operated on the go
Front axle oscillation	30 degrees, stop to stop	30 degrees, stop to stop

BRAKES		
Service brakes	long-life, inboard-mounted wet disk oil cooled, self-adjusting and equalizing front and rear axles	long-life, inboard-mounted wet disk oil cooled, self-adjusting and equalizing front and rear axles
Parking brake	automatically spring-applied, hydraulically released, sealed and lubricated, wet multi-disk, integrally mounted in transmission	automatically spring-applied, hydraulically released, sealed and lubricated, wet multi-disk, integrally mounted in transmission

POWER TRAIN PERFORMANCE	*with 23.1-26 tires*		*with 28L-26 tires*	
No tire slip	*maximum speed @ 2,200 rpm*	*maximum drawbar @ peak torque*	*maximum speed @ 2,200 rpm*	*maximum drawbar @ peak torque*
Forward				
Gear 1	1.4 mph (2.3 km/h)	39,107 lb. (175 kN)	1.5 mph (2.4 km/h)	46,232 lb. (207 kN)
Gear 2	1.9 mph (3.1 km/h)	29,457 lb. (132 kN)	2.0 mph (3.2 km/h)	34,824 lb. (156 kN)
Gear 3	2.5 mph (4.1 km/h)	22,134 lb. (99 kN)	2.6 mph (4.2 km/h)	26,166 lb. (117 kN)
Gear 4	3.4 mph (5.4 km/h)	16,672 lb. (75 kN)	3.5 mph (5.6 km/h)	19,710 lb. (88 kN)
Gear 5	4.5 mph (7.3 km/h)	12,480 lb. (56 kN)	4.6 mph (7.4 km/h)	14,754 lb. (66 kN)
Gear 6	6.0 mph (9.6 km/h)	9,399 lb. (42 kN)	6.1 mph (9.9 km/h)	11,111 lb. (50 kN)
Gear 7	8.9 mph (14.3 km/h)	6,323 lb. (28 kN)	9.1 mph (14.7 km/h)	7,475 lb. (33 kN)
Gear 8	11.8 mph (19.0 km/h)	4,764 lb. (21 kN)	12.1 mph (19.5 km/h)	5,631 lb. (25 kN)
Reverse				
Gear 1	1.4 mph (2.3 km/h)	39,107 lb. (175 kN)	1.5 mph (2.4 km/h)	46,232 lb. (207 kN)
Gear 2	1.9 mph (3.1 km/h)	29,457 lb. (132 kN)	2.0 mph (3.2 km/h)	34,824 lb. (156 kN)
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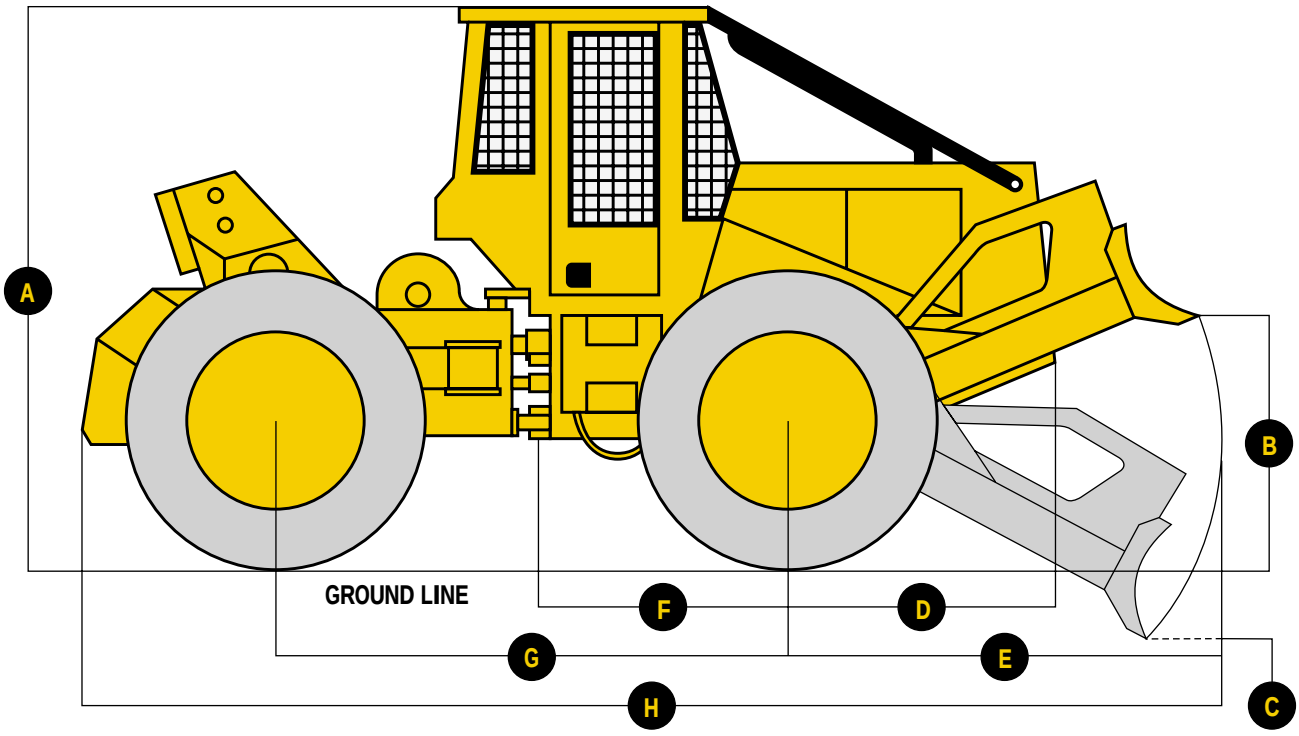
STEERING	540G-II		640G-II		
Frame articulation	90 degrees total, stop to stop		90 degrees total, stop to stop		
Steering wheel with Orbitrol™ valve					
HYDRAULIC SYSTEM					
Pump	variable-displacement axial piston		variable-displacement axial piston		
Maximum rated flow	27 gpm (102 L/min.) @ 2,200 rpm		27 gpm (102 L/min.) @ 2,200 rpm		
Pressure	3,000 psi (20 684 kPa)		3,000 psi (20 684 kPa)		
Oil filtration	one 10 micron return oil with by-pass		one 10 micron return oil with by-pass		
WINCH					
Type	sealed, wet multi-disk clutch and brake pressurized lubrication single lever control		sealed, wet multi-disk clutch and brake pressurized lubrication single lever control		
Cable capacity	*4000 (8-in. drum)*	*4000 (10-in. drum)*	*4000 (8-in. drum)*	*4000 (10-in. drum)*	*6000 (11-in. drum)*
0.625-in. (15.8 mm) cable	254 ft. (77.4 m)	199 ft. (60.6 m)	254 ft. (77.4 m)	199 ft. (60.6 m)	373 ft. (114.0 m)
0.75-in. (19.1 mm) cable	179 ft. (54.6 m)	141 ft. (43.0 m)	179 ft. (54.6 m)	141 ft. (43.0 m)	263 ft. (80.2 m)
0.875-in. (22.2 mm) cable	129 ft. (39.3 m)	101 ft. (30.8 m)	129 ft. (39.3 m)	101 ft. (30.8 m)	189 ft. (58.0 m)
1-in. (25.4 mm) cable	100 ft. (30.5 m)	78 ft. (23.8 m)	100 ft. (30.5 m)	78 ft. (23.8 m)	147 ft. (45.0 m)
Line pull @ peak engine and					
0.625-in. (15.8 mm) cable	*bare drum*	*full drum*	*bare drum*	*full drum*	
4000 (8-in. drum high speed)	34,786 lb. (155 kN)	21,437 lb. (95 kN)	41,860 lb. (186 kN)	25,797 lb. (115 kN)	
4000 (8-in. drum standard speed)	40,525 lb. (180 kN)	24,974 lb. (111 kN)	48,767 lb. (217 kN)	30,053 lb. (134 kN)	
4000 (10-in. drum high speed)	32,985 lb. (147 kN)	24,974 lb. (111 kN)	39,694 lb. (177 kN)	30,053 lb. (134 kN)	
6000			41,047 lb. (182 kN)	26,071 lb. (116 kN)	
Line speed @ 2,200 rpm and 0.625-in.					
(15.8 mm) cable	*bare drum*	*full drum*	*bare drum*	*full drum*	
4000 (8-in. drum high speed)	146 fpm (44.5 m/min.)	242 fpm (73.8 m/min.)	146 fpm (44.5 m/min.)	242 fpm (73.8 m/min.)	
4000 (8-in. drum standard speed)	131 fpm (40.0 m/min.)	218 fpm (66.4 m/min.)	131 fpm (40.0 m/min.)	218 fpm (66.4 m/min.)	
4000 (10-in. drum high speed)	157 fpm (47.9 m/min.)	208 fpm (63.4 m/min.)	157 fpm (47.9 m/min.)	208 fpm (63.4 m/min.)	
6000			145 fpm (44.2 m/min.)	228 fpm (69.5 m/min.)	
GROUND PRESSURE DATA					
Tires					
23.1-26	7.4 psi (50.7 kPa)		8.0 psi (55.3 kPa)		
28L-26	6.2 psi (42.5 kPa)		6.7 psi (46.2 kPa)		
24.5-32	6.7 psi (46.0 kPa)		7.2 psi (49.9 kPa)		
30.5-32	5.6 psi (38.4 kPa)		6.4 psi (44.0 kPa)		
67-34-25 or 26	5.6 psi (38.3 kPa)		6.4 psi (43.9 kPa)		
66-43-25 or 26	4.7 psi (32.3 kPa)		5.7 psi (39.1 kPa)		
69-50-32	3.8 psi (26.2 kPa)		4.5 psi (31.2 kPa)		
CAPACITIES (U.S.)					
Fuel tank	42.0 gal. (159.0 L)		42.0 gal. (159.0 L)		
Cooling system	30.0 qt. (24.6 L)		30.0 qt. (28.4 L)		
Engine lubrication, including filter	20.0 qt. (18.9 L)		20.0 qt. (18.9 L)		
Transmission	7.8 gal. (29.3 L)		7.8 gal. (29.3 L)		
Differentials					
Front	4.5 gal. (17.0 L)		4.5 gal. (17.0 L)		
Rear	4.5 gal. (17.0 L)		7.5 gal. (28.4 L)		
Winch	9.3 gal. (35.2 L)		9.3 gal. (35.2 L)		
Hydraulic reservoir	8.0 gal. (30.3 L)		11.0 gal. (41.6 L)		
OPERATING WEIGHTS					
Standard equipment	21,990 lb. (9933 kg)		23,900 lb. (10 841 kg)		

DIMENSIONS	540G-II	640G-II
Tire size	28L-26	28L-26
A Overall height*	9 ft. 10.5 in. (30.11 m)	9 ft. 11.0 in. (30.27 m)
B Maximum blade lift above ground	3 ft. 11.6 in. (12.10 m)	4 ft. 3.5 in. (13.08 m)
C Maximum blade dig below ground	11.3 in. (288 mm)	14.5 in. (367 mm)
D Front axle to front of machine	59.3 in. (1507 mm)	66.3 in. (1685 mm)
E Front axle to blade cutting edge arc	83.2 in. (2112 mm)	
F Front axle to articulation joint	62.0 in. (1575 mm)	68.0 in. (1727 mm)
G Wheelbase	115.0 in. (2920 mm)	135.0 in. (3430 mm)
H Overall length	20 ft. 9.0 in. (6330 mm)	23 ft. 8.6 in. (7230 mm)

*Add 8.6 in. (218 mm) when equipped with air conditioning.

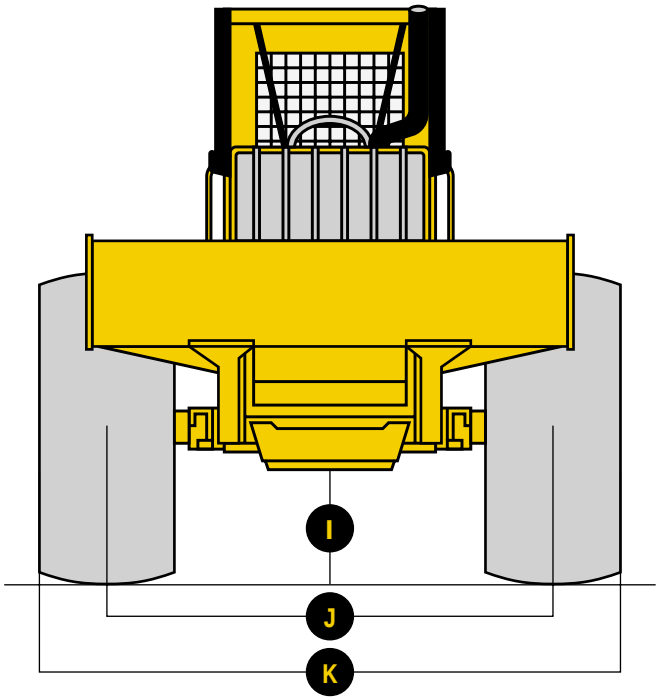


540G-II DIMENSIONS WITH TIRES

Tire Size	*23.1-26*	*28L-26*	*24.5-32*	*30.5-32*	*23.1-26 (narrow gauge)*	*28L-26 (narrow gauge)*	*24.5-32 (narrow gauge)*
I Ground clearance, in in. (mm)	19.6 (498)	20.2 (514)	23.5 (598)		19.6 (498)	20.2 (514)	23.5 (598)
J Wheel tread, in ft.-in. (m)	7-3 (2.21)	7-6 (2.29)	7-9.5 (2.38)		6-9 (2.06)	7-2 (2.18)	7-0.5 (2.15)
K Overall width, in ft.-in. (m)	9-2 (2.79)	9-10 (3.00)	9-10 (3.00)		8-8 (2.64)	9-6 (2.90)	9-1 (2.77)
Turning radius over tires, in ft.-in. (m)	17-11 (5.47)	18-1 (5.51)	18-0 (5.48)		17-6 (5.33)	17-11 (5.50)	17-7 (5.36)

640G-II DIMENSIONS WITH TIRES

Tire Size	*23.1-26*	*28L-26*	*24.5-32*	*30.5-32*	*23.1-26 (narrow gauge)*	*28L-26 (narrow gauge)*	*24.5-32 (narrow gauge)*
I Ground clearance, in in. (mm)	19.6 (4.98)	20.2 (514)	23.5 (598)	24.2 (615)	19.6 (498)	20.2 (514)	23.5 (598)
J Wheel tread, in ft.-in. (m)	7-3 (2.21)	7-6 (2.28)	7-9.5 (2.38)	7-8.5 (2.35)	6-9 (2.06)	7-2 (2.18)	7-0.5 (2.15)
K Overall width, in ft.-in. (m)	9-2 (2.79)	9-10 (3.00)	9-10 (3.00)	10-3 (3.12)	8-8 (2.64)	9-6 (2.90)	9-1 (2.77)
Turning radius over tires, in ft.-in. (m)	18-3 (5.50)	18-7 (5.60)	18-7 (5.60)	18-9 (5.70)	17-11 (5.40)	18-4 (5.60)	18-2 (5.50)



	540G-II	640G-II
ENGINE		
Antifreeze, –33°F (–36°C)	●	●
Blower-type cooling fan, enclosed with guard	●	●
Coolant recovery tank	●	●
Electric fuel shutoff with start switch key	●	●
Fuel filter, vertically mounted, quick release	●	●
Fuel/water separator, vertically mounted, quick release	●	●
Isolation-mounted engine	●	●
Muffler, low restriction, externally mounted	●	●
Oil drain shutoff for spill-free oil changes	●	●
Oil filter, spin on, vertical mount, full flow with by-pass	●	●
Oil-to-coolant engine oil cooler	●	●
Padlock-ready engine side shields	●	●
Side-by-side mounted radiator, transmission, and hydraulic oil cooler	●	●
Electric ether starting aid	■	■
ELECTRICAL		
Alternator, 65 amp	●	●
Alternator, 95 amp	■	■
Alternator, 135 amp	■	■
Battery disconnect	●	●
Battery, dual, heavy duty, low maintenance	●	●
Load center electrical system with blade-type fuses	●	●
Work lights (halogen, 2 front, 2 rear)	■	■
Work lights (halogen, 4 front, 4 rear)	■	■
TRANSMISSION		
Direct drive power shift with 8 forward and 7 reverse speeds	●	●
Isolation-mounted transmission	●	●
Oil filter, pressure side, 10 micron with by-pass, spin on, vertical mount	●	●
Park brake, wet multi-disk, spring applied, hydraulically released, sealed and lubricated	●	●
Transmission oil cooler, side-by-side mounted with radiator	●	●
Transmission disconnect, for cold weather starting		■
AXLES		
Differential lock, hydraulically applied, engaged on the go, front and rear, with engagement indicator on dash	●	●
Self-contained differential Lock hydraulic circuit with filter	●	●
Heavy-duty inboard planetary final drives	●	●
Inboard sealed and lubricated wet-disk brakes, front and rear	●	●
BRAKES		
Service	●	●
Disk type, mounted inboard of axle final drives, sealed and lubricated, self adjusting and equalizing front and rear		
Parking	●	●
Spring applied, hydraulically released, wet multi-disk, integrally mounted in transmission		
OPERATOR'S STATION		
Gauges, electric, illuminated Engine coolant temperature / Fuel level	●	●
Fire extinguisher	●	●
Foot throttle	●	●
Hand throttle	■	■
Full function monitor instrumentation with audible warning alarm for Air filter restriction indicator / Alternator voltage / Engine coolant temperature / Engine oil pressure / Hydraulic oil filter restriction / Hydraulic oil temperature / Park brake / Transmission oil pressure / Transmission oil temperature / Transmission oil filter restriction	●	●
Hourmeter	●	●
Operator manual with storage compartment	●	●
Steering wheel with full power steering	●	●
Vinyl suspension seat with Fore/aft adjustment / Height, weight adjustment / Adjustable backrest angle / Adjustable lumbar support / Armrests, two position	●	●
Fabric- or air-suspension seat with Fore/aft adjustment / Height, weight adjustment / Adjustable backrest angle / Lumbar support / Armrests, two position	■	■
Operator protection with Integral ROPS, FOPS, OPS protective structure / Non cab-equipped machines include tinted polycarbonate front windows and screens on all other openings, cab-equipped machines include polycarbonate windows on all openings with screens on the door windows only / Lockable doors with start switch key / Mirror, rear-view, interior mounted / Headliner / Retractable seat belt	●	●
Cab, fully enclosed, with (in addition to standard equipment) Windows, tinted polycarbonate / Windshield wiper and washer, front / Sliding windows, left and right door opening / Heater / Defroster fan, left front / Floormat	■	■
Cab climate control module with Air conditioner, (R134A refrigerant) / Heater, 40,000 Btu/hr. (11.8 kW) / Pressurizer	■	■
Tilt-for-service cab with hydraulic tilt	■	■
TIRES		
23.1-26, 14 ply rating	●	●
23.1-26, 14 ply rating, narrow gauge	■	■
28L-26, 12 ply rating	■	■
28L-26, 12 ply rating, narrow gauge	■	■
28L-26, 14 ply rating	■	■
24.5-32, 16 ply rating	■	■
30.5-32, 16 ply rating		■
HYDRAULIC SYSTEM		
"Four wire" grapple hoses	●	●
Hydraulic oil cooler, side-by-side mounted to radiator	●	●
Single lever, blade control	●	●
Vertical, spin-on return oil filter, 10 micron with by-pass	●	●
WINCH		
Model 4000 (8-in. drum high speed)	●	●
Model 4000 (8-in. drum standard speed)	■	■
Model 4000 (10-in. drum high speed)	■	■
Model 6000 (11-in drum)		■
FRAMES		
Articulation locking bar, self storing	●	●
Frame clean-out and service doors	●	●
Stacking blade, 86-in. wide, with replaceable cutting edge	●	●
Stacking blade extensions, 15 in. (381 mm) per side	■	■

KEY: ● Standard equipment ■ Optional or special equipment

See your John Deere dealer for further information.

CONTROL OWNING AND OPERATING COSTS

Total Repair Cost Management (TRCM) is part of John Deere's proactive, fix-before-fail strategy on machine maintenance that will help control costs, increase profits, and reduce stress. Included in this comprehensive lineup of ongoing programs and services are:

OilScan® Plus program – tells you what's going on inside *all* of your machine's major components so you'll see a decline in performance *before* the system fails. OilScan Plus oil analysis is included in most SECURE®-Extended warranty and preventive-maintenance contracts.

MaintainIt™ program – Flexible, easy-to-use MaintainIt software lets you start your own computerized maintenance program by putting complete machine histories at your fingertips. It features a library of John Deere equipment, a spare-parts inventory list, and a list of maintenance tasks. Compare costs; schedule maintenance procedures by hourmeter or date; or print, fax, or e-mail purchase and work orders with just a few quick keystrokes.

Component life-cycle data – gives you vital information on the projected life span of components and lets you make informed decisions on machine maintenance by telling you approximately how many hours of use you can expect from an engine, transmission, or hydraulic pump. This information can be used to preempt catastrophic downtime by servicing major components at about 80 percent of their life cycle.

Preventive Maintenance (PM) contracts – give you a fixed cost for maintaining a machine for a given period of time. It also helps you avoid downtime by ensuring that critical maintenance work gets done right and on schedule. On-site preventive maintenance service performed where and when you need it helps protect you from the expense of catastrophic failures and lets you avoid waste-disposal hassles.

SECURE-Extended warranty – gives you a fixed cost for machine repairs for a given period of time so you can effectively manage costs. Whether you work in a severe-service setting or just want to spread the risk of doing business, this is a great way to custom-fit coverage for your operation. And a SECURE-Extended contract also travels well because it's backed by John Deere and is honored by *all* Deere construction dealers.

Customer Support Advisors (CSAs) – Deere believes the CSA program lends a *personal* quality to Total Repair Cost Management. Certified Customer Support Advisors have the knowledge and skills for helping make important decisions on machine maintenance and repair. Their mission is to help you implement a plan that's right for *your* business and take the burden of machine maintenance off your shoulders.

JOHN DEERE

Net engine power is with standard equipment including air cleaner, exhaust system, alternator, and cooling fan, at standard conditions per SAE J1349 and DIN 70 020, using No. 2-D fuel at 35 API gravity. No derating is required up to 10,000 ft. (3050 m) altitude. Gross power is without cooling fan.

Specifications and design subject to change without notice. Wherever applicable, specifications are in accordance with SAE standards. Except where otherwise noted, these specifications are based on units with 23.1-26, 10 PR LS2 tires, full fuel tanks, 175-lb. (79 kg) operators, and standard equipment.

SAFETY live with it

DKA540GII Litho in U.S.A. (99-06)