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# INTRODUCTION

With correct maintenance and proper use, Gehl skid-steer loaders will give years of dependable service. This service manual is intended to be a guide in the assembly and disassembly, installation and removal, adjustment and testing, troubleshooting and replacement of components that together make up the Gehl SL7810E (with Cummins engine) skid-steer loaders.

In many of the procedures found within, the installation steps are the exact opposite of the removal steps and vice versa, and therefore, the opposite procedure is not written. Instead, a note to reverse the procedure will be stated. This reduces redundancy and excessive pages in the manual. In cases though, where the assembly and disassembly or removal and installation procedures differ and additional steps or safety concerns are paramount, the entire reverse procedure will be written out to include the new information.

The Table of Contents and Index can be used to make the procedure you need to find an easier process. Also, there are black tabs extending off the pages highlighting the chapters for those who prefer to thumb through the manual. Many schematics, photographs, and line art drawings are used to help perform the necessary repairs, tests, or adjustments that the SL7810E skid-steer loader needs to keep it in good running condition.

If you have any additional questions, please contact your authorized Gehl dealer or call the Gehl Service Department for assistance.

**For Cummins Engine Service Manual Ordering:**

**Cummins Customer Assistance Center  
1-800-DIESELS (1-800-343-7357)  
Applicable Only In USA and Canada**

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# SPECIFICATIONS

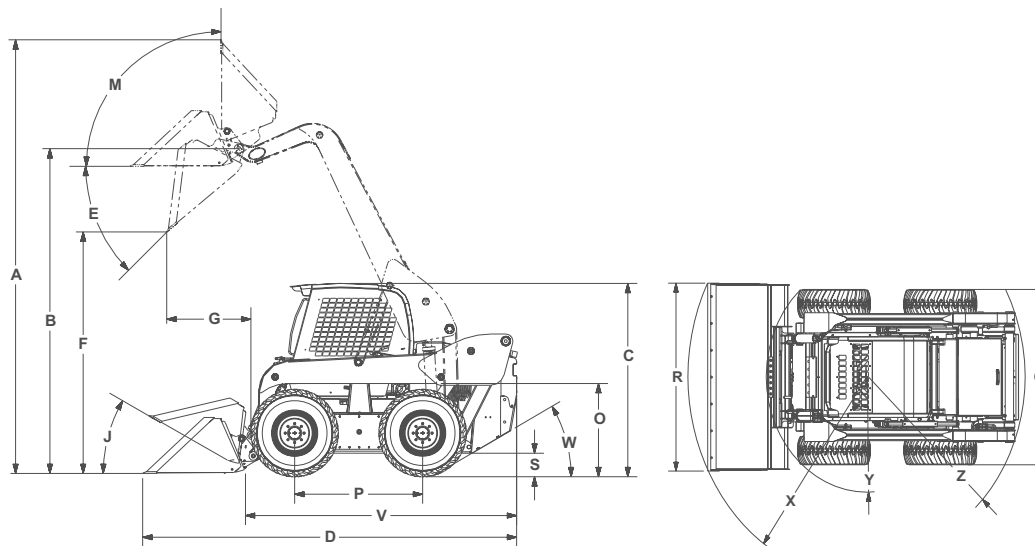
	SL7810E
Make of Engine	Cummins (Turbo)
Model	4B4.5T
Fuel	Diesel
Displacement	275 CID (4,5 L)
Horsepower - Net	99 hp (73,8 kW) @ 2200 rpm
Peak Torque	305 lbf-ft (414 N•m) @ 1500 rpm
*SAE Rated Operating Load	3850 lbs (1746 kg)
Operating Weight	10520 lbs (4772 kg)
Shipping Weight	9297 lbs (4217 kg)

SL7810E models	
Capacities	
Hydraulic Reservoir	15 US gal (56,8 L)
Chaincases (each)	11.5 US qts (10,9 L)
Engine Oil	11 US qts (10,4 L)
Fuel Tank	30.5 US gal (115,4 L)
Electrical	
Battery	12-volt DC, 950 CCA
Starter	12-volt DC (4,8 kW)
Alternator	85 A
Hydraulic System	
Hydraulic System Pressure	3300 psi (228 bar)
Standard Auxiliary Flow Rate (Single)	2-29 gpm (8-110 L/min)
High-Flow Auxiliary Flow Rate (Dual)	41 gpm (155,2 L/min)
Travel Speed - Single-Speed	0 to 7.5 mph (0 to 12 km/h)
Travel Speed - Two-Speed	0 to 12.5 mph (0 to 20,1 km/h)

Tire Options	
14 x 17.5 - 14 ply	Foam-Filled tires
14 x 17.5 - 14 ply	High Clearance Flotation tires
14 x 17.5 - 14 ply	Severe Duty tires
15 x 17.5 - 14 ply	Foam-Filled tires - Severe Duty
33 x 15.5 x 16.5 - 12 ply	Extra Wide Heavy Duty tires
12 x 35	Solid Rubber tires

Buckets and Capacities			
Width - inches (millimeters)	Bucket Description	Capacity (Heaped)	
84 inches (2134 mm)	Dirt/Construction	22.0 cubic feet	0,62 cubic meters
84 inches (2134 mm)	Dirt/Construction	28.0 cubic feet	0,79 cubic meters
90 inches (2286 mm)	Dirt/Construction	29.3 cubic feet	0,83 cubic meters
48 inches (1219 mm)	Pallet Fork	N/A	N/A

\*Operating load rated with a 84 inch (2134 mm) dirt/construction bucket in accordance with SAE J818.



Dimensional Specifications		SL7810E 28 cu. ft. bkt. w/ 14 x 17.5 tires	
		inches	millimeters
A	Overall operation height - fully raised	187.8	4770
B	Height to hinge pin - fully raised	142	3607
C	Overall height - top of ROPS	81	2057
D	Overall length - bucket down	161	4089
E	Dump angle @ full height	38°	
F	Dump height	107	2718
G	Dump reach - bucket (full height)	38.2	970
	Dump reach - maximum (84" dirt/construction bucket)	50.5	1283
J	Rollback at ground	28.5°	
M	Rollback angle at full height	85°	
O	Seat-to-ground height	41	1041
P	Wheelbase - nominal	55	1397
Q	Overall width - less bucket	81	2057
R	Overall bucket width	84	2134
S	Ground clearance to chassis (between wheels)	9.1	231
U	Maximum back grading angle	81.5°	
V	Overall length (less bucket)	122	3099
W	Departure angle	21°	
X	Clearance circle - front (with bucket)	101.7	2583
Y	Clearance circle - front (less bucket)	60.6	1539
Z	Clearance circle - rear	80.5	2045