

INTRODUCTION

With correct maintenance and proper use, the Gehl 1640E and Mustang 2012 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 1640E and Mustang 2012 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. Many schematics, photographs, and line art drawings are used to help perform the necessary repairs, tests, or adjustments that the skid-steer loader needs to keep it in good running condition.

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

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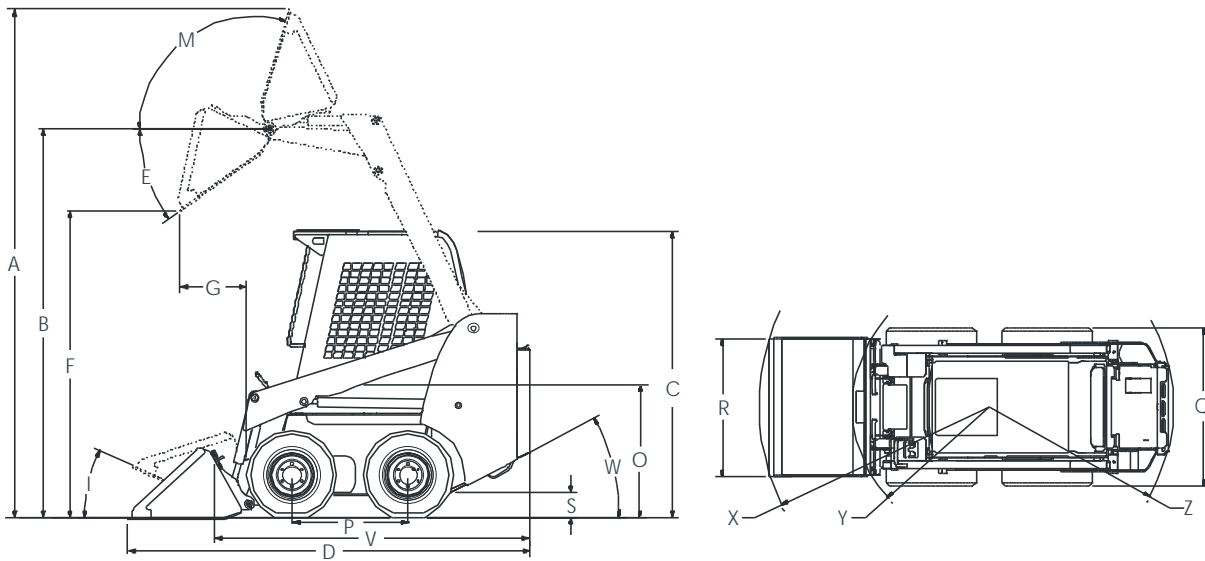
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SPECIFICATIONS

Model	1640E / 2012
Engine Make	Yanmar
Engine Model	3TNV82A-BPMS
Fuel	Diesel
Displacement	81.2 CID (1,33 L)
Horsepower - Net	23.9 hp (17,8 kW)
Peak Torque	68 lbf-ft. (86 N•m)
Rated Operating Capacity	850 lbs. (386 kg)
Operating Weight	2980 lbs. (1352 kg)
Shipping Weight	2820 lbs. (1279 kg)
Capacities	Capacities
Engine Oil	5.8 US qts. (5,5 L)
Fuel Tank	7.7 US gal. (29,1 L)
Chaincase (each)	6.0 US qts. (5,7 L)
Hydraulic Reservoir	7.2 US gal. (27,2 L)
Engine Coolant	8.0 US qts. (7,57 L)
Electrical System	Electrical
Battery	12-V DC, Group 24, 675 CCA, 115 Reserve
Starter	12-V DC (1,7 kW)
Alternator	40 A
Hydraulic System	Hydraulic System
Hydraulic System Pressures	2255 PSI (156 bar)
Standard Auxiliary Flow Rate	10.1 gal/min (38,2 L/min)
Travel Speed (with standard tire)	0 to 5.5 mph (0 to 9,0 km/h)
Tire Options	Tire Options Description
5.70 x 12 Heavy-Duty 4-Ply	NHS Trac Loader Chevron
23 x 8.50-12 Heavy-Duty 6-Ply	NHS Heavy-Duty 2000
Buckets and Capacities	
Width - Description	Capacity (Heaped)
36 inches (914 mm) - Dirt/Construction	5.3 cubic feet ; 0,15 cubic meters
44 inches (1118 mm) - Dirt/Construction	7.4 cubic feet ; 0,21 cubic meters
48 inches (1219 mm) - Utility/Snow	9.8 cubic feet ; 0,28 cubic meters
15.75-19.68-24 inches (400-500-610 mm) Pallet	Not Applicable

*Operating capacity rated with a 5.70 tires, 5.3 cubic foot (0.15 m³) dirt/construction bucket in accordance with SAE J818, SAE J732 and ISO 14397-1.



Dimensional Specifications		1640E and 2012 ¹	
		in.	mm
A	Overall operation height - fully raised	124.7	3167
B	Height to hinge pin - fully raised	96	2438
C	Overall height - top of ROPS	74.7	1897
D	Overall length - bucket down	101.4	2576
E	Dump angle @ full height	45.9°	
F	Dump height	72.3	1836
G	Dump reach - bucket (full height)	14.8	376
I	Rollback at ground	23.4°	
M	Rollback angle @ full height	100.3°	
O	Seat-to-ground height	34.6	879
P	Wheelbase - nominal	30.5	775
Q	Overall width - less bucket	35.8	909
R	Overall bucket width	36.0/44.0	914/1118
S	Ground clearance to chassis (between wheels)	6.0	152
V	Overall length (less bucket)	75	1905
W	Departure angle	30.1°	
X	Clearance circle - front (with bucket)	58	1473
Y	Clearance circle - front (less bucket)	32.8	833
Z	Clearance circle - rear	43.2	1097

1 - w/5.3 cu.-ft. bkt./7.4 cu.-ft. bkt., and 5.7 x 12 tires