

1.3 Operation Specifications and Capabilities

1.3.1 General Specifications

Dimensions	
Overall Length	313 inches (7950 mm)
Overall Width	96 inches (2438 mm)
Overall Height	147 inches (3734 mm)
Maximum Floor Height	228 inches (580 cm)
Minimum Floor Height	96 inches (244 cm)
Load Capacity	
Concentrated Load	500 lbs. (227 kg) on any sq. foot
Static Load	250 lbs. (113 kg) on each step and 1,000 lbs. (454 kg) on platform
Axle Weight	<20,000 lbs. (<9072 kg)
Platform Dimensions	
Length	133 inches (3378 mm)
Width	72 inches (1829 mm)
Step Dimensions	
Width	48 inches (1219 mm)
Depth	12 inches (305 mm)
Rise	7 inches (178 mm)
Railing Height	42 inches (1067 cm)

1.3.2 Truck Cab and Chassis

Manufacturer	Ford Motors
NSN- 1730-01-559-5063YW	
Model	F-550 4x2 (2008)
Wheelbase	165 inches (4191 mm)
Chassis Weight Ratings	
GVWR	19,500 pounds (8618 kg)
GAWR Front	7,000 pounds (3175 kg)
GAWR Rear	13,660 pounds (6196 kg)
Engine	
Manufacturer	Ford
Model	350 hp engine
Type	Turbo Diesel
Displacement	6.4l V-8
Horsepower	190 GHP @ 2600 rpm
Torque	387 lb-ft @ 1500 rpm
Engine Fluid Capacities	
Truck Fuel Tank (turbo	40 U.S. gallons (151 L)

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diesel)	
Transmission	5-speed automatic
Tires	
Size	LT225/70R19.5G w/four-wheel disc brakes and all-wheel ABS
Rims	19.5x6.0RM 8-hole disc steel wheels
Inflation Pressure (Cold)	
Front	95 psi (655 kPa)
Dual Rear	100 psi (690 kPa)
Electrical System	12V, 750 CCA/78A

1.3.3 Hydraulic System

Type	Engine driven pump
Hydraulic Pump	
Manufacturer	Harper Industries
Type	Rotary gear (coupled to clutch)
Displacement	1.24 cu. in. (20 cc) per revolution
Nominal Rated Flow	9 GPM (35 lpm)
Maximum Rated Pressure	3000 psi (207 bar)
Auxiliary Hydraulic Pump	
Manufacturer	Fenner
Type	12VDC
Displacement	0.122cu. in. per rev
Working Pressure	2,500 psi relief
Hydraulic Cylinder, Stairway	
Type	Double acting, single stage
Bore	2 ½ inches (63.5 mm)
Stroke	164 ¾ inches (4185 mm)
A-frame Cylinder (2)	
Type	Double acting, single stage
Bore	3 ½ inches (88.9 mm)
Stroke	20 inches (508 mm)
Hydraulic Cylinder, Front Stabilizers (2) and Rear Stabilizers (2)	
Type	Double acting, single stage
Bore	2 ½ inches (63.5 mm)
Stroke	13.7 inches (348 mm)
Hydraulic Cylinder, Center Stabilizers (2)	
Type	Double acting, single stage
Bore	3 ½ inches (88.9 mm)

Stroke	20 inches (508 mm)
Hydraulic Cylinder, Tail Tilt Tie-Rod 2" Rod (50.8 mm)(3)	
Type	Double acting, single stage
Bore	5 inches (127 mm)
Stroke	8 inches (203 mm)
Pressure Relief Valve	
Type	Adjustable, part of hydraulic control valve
Recommended Setting	2200 psi (152 bar)
Filtration	
Return Line	10 micron, spin-on canister
Suction Line	25 GPM (95 lpm) flow, 100 mesh strainer
Reservoir Capacity	12.5 U.S. gallons (47 liters)