



**CUSHMAN**



**MODEL: LSV 800 - Exceed**  
**TYPE: ELECTRIC LOW SPEED TRUCK**  
**MODEL YEAR: 2013**  
**Part No.: 624932**

**PRODUCT SPECIFICATION**

**CONFIGURATION HIGHLIGHTS**

**Programmable AC Drive System:** Factory programmable to application

- Solid State variable frequency AC speed controller
- Drive-by-wire electronic throttle control
- Dash mounted direction selector switch (Forward-Neutral-Reverse)
- Descent speed control and automatic hill hold
- Full-time regenerative braking
- 235 Amp AC Controller
- Full torque, reduced speed reverse
- Sealed Hall effect throttle sensor
- Full diagnostic capability (Hand held diagnostic unit)
- Dash mounted High/Low speed selector switch

**Motor:** 48 Volt AC induction motor, solid copper windings. 4.4 hp (3.3 kW) Continuous, 15 hp (11.2 kW) peak. AC system reads motor speed for accurate speed control in all conditions. Regenerative braking for maximum economy

**Battery Charger:** On-board 48 VDC High Frequency, 120/230 VAC 50/60 Hz with 30 amp DC-DC Converter. (U.L. & C.S.A. Certified)

**Electrical System:** 48 Volt DC, four, 12 volt deep cycle storage batteries (60 minute minimum, 150 amp-hour @ 20 hr. discharge rate)

**Drive Train:** Direct motor shaft connected to transaxle pinion shaft

**Transaxle:** Differential with reverse helical gears

**Brakes:** 4-wheel hydraulic disc brakes and Induction motor. Electro-magnetic parking brake is applied automatically

**Towing:** Rear hitch receiver integrated into bed support frame

**Cargo Bed:** Roto-molded cross-linked polyethylene. Tilts for powertrain access. Removable hinged multi-position tailgate requires no latch mechanism

**Exceed Unit:** Briggs & Stratton 12S Single Cylinder Engine (205cc); Fuel Tank Capacity: 2.0 gal; 400W Inverter to 120 VAC

**PRODUCT OVERVIEW**

**Dimensions**

Overall Length	108.9 in / 277 cm
Overall Width	48.5 in / 123 cm
Overall Height	71.2 in / 180.8 cm
Overall Height (with Strobe)	75.2 in / 191 cm
Wheel Base	65.9 in / 167 cm
Front Wheel Track	36.7 in / 93 cm
Rear Wheel Track	39.7 in / 100 cm
Gnd Clearance @ Differential	4.5 in / 11.4 cm
Cargo Box Width (inside)	44.5 in / 113 cm
Cargo Box Length (inside)	30.5 in / 77 cm
Cargo Box Depth (inside)	7.5 in / 19 cm
Cargo Box Capacity	5.9 cu ft. / 0.17 m3
Cargo Box Material	Roto-molded polyethylene

**Vehicle Power**

Power Source	48 Volts DC
Motor Type	48 Volts AC
Horsepower (kW)	4.4 Hp (3.3 kW)
Electrical System	48 Volt
Batteries (Qty, Type)	Four, 12 Volt Deep Cycle
Key or Pedal Start	Pedal Start
Speed Controller	235 amp
Drive Train	Motor Shaft Direct Drive
Transaxle	Helical Gears
Direction Selection	Dash mounted Forward-Neutral-Reverse
Speed Selection	Dash mounted High-Low switch
Rear Axle Ratio	14.76:1 (F)

Battery Charger	Onboard 48 VDC
DC-DC Converter	30 amp - Integrated into On-board Charger

**Performance**

Seating Capacity & Style	2 Persons/ Bucket Seats
Dry Weight	958 lb / 434 kg
Curb Weight	1286 lb / 583 kg
Bed Load Capacity	300 lb / 136 kg
Vehicle load capacity	685 lb / 310 kg
Towing Capacity	1800 lb max (See Page 2 for Gradeability)
Gross Axle Weight Rating - F	575 lb / 260 kg
Gross Axle Weight Rating - R	2000 lb / 907 kg
Outside Clearance Circle	19.7 ft / 6 m
Speed - Low (Level Ground)	14 mph / 22.5 kph
Speed - High (Level Ground)	25 mph / 40 kph
Speed - Reverse	8 mph / 12 kph

**Steering & Suspension**

Steering	Double Ended Rack & Pinion - 3.69 turns to lock
Front Suspension	Independent A-arm with Coil Over Shock
Rear Suspension	Mono-Leaf Springs with Hydraulic Shocks
Service Brake	4-Wheel Hydraulic Disc with Motor Regen
Parking Brake	Spring Applied Electro-magnetic
Front & Rear Tires	DOT Street Legal 205-50-10 Radial

**Body & Chassis**

Frame	Welded Steel with DuraShield powder coat
Body & Finish	Injection Molded TPO & Automotive Style Paint
Standard Color	Patriot Blue

*Some items shown may be optional equipment*



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**OPTIONS & FIELD INSTALLED (Installation not included)\***

Item	Std	Opt	Fld
<b>Wheels &amp; Tires:</b>			
DOT Street Legal 205 -50-10 Radial	X		
Steel Wheels with Painted Platinum Wheel Covers	X		
Diamond Pattern Aluminum Wheels		X	
<b>Body Colors:</b>			
Patriot Blue	X		
Safety Yellow		X	
<b>OPS Color (Canopy):</b>			
White	X		
<b>Seat Colors:</b>			
Stone Beige	X		
Oyster		X	
<b>Standard Features:</b>			
Dash mounted High-Low Speed Selector Switch	X		
Dash Mounted 12-V Accessory Outlet	X		
Dash Mounted Speedometer, Odometer & SOC Gauge	X		
Error Code Display in Speedometer & Odometer Gauge	X		
3-point Seat Belts	X		
Automatic Parking Brake	X		
4 Cup Cupholder	X		
Passenger Side Locking Glove Box	X		
Individually Keyed	X		
Comfort Grip Steering Wheel	X		
Turn Signals and Flashers	X		
Headlights	X		
Brake Lights Including Center High Mount Stop Light	X		
OPS Mounted Driver Side Mirror	X		
Automotive Safety Glass Windshield (AS1)	X		
Windshield Mounted Automotive Style Rear View Mirror	X		
OPS (Operator Protective Structure) Rated Canopy	X		
2-in Tow Hitch Receiver	X		

Item	Std	Opt	Fld
<b>Standard Features: (cont.)</b>			
On-Board Charger with 30 amp DC-DC Convertor	X		
Run-Tow Switch	X		
Charger Cord Receptacle with Charge Indicator Light	X		
Split bench seat with center console (Front)	X		
Custom Front Fascia with Integrated Signal Indicators	X		
Reflex Reflectors on Side & Rear of Vehicle	X		
Four 12V US12VRX Batteries	X		
Anti-slip Floor Mat	X		
Horn Switch integrated in Turn Signal Lever	X		
Poly Bed with Tilt Capability	X		
Lighted License Plate Holder	X		
Dash-Mounted Power Switch & Choke Button	X		
Three-Prong Power Outlet (120V,400 watt)	X		
Fuel Gauge	X		
Passenger Side Mirror	X		

Item	Std	Opt	Fld
<b>Vehicle Options:</b>			
2-Speed Windshield Wiper Kit		X	
16 ft (5 m) Charger Cord with Integrated GFI		X	
Driver Side Locking Glove Box		X	
Drop in Ashtray		X	
Battery Fill System		X	
Hard Cab Kit			X
OPS Mounted Amber Strobe Light			X
Heater/Defroster			X
Weather Enclosure, Soft			X
HydroLink Hose Supply and Hand Pump			X
Tow Hitch			X

**Gradeability**

Vehicle Speed**	Drawbar Pull†	Maximum % of Grade/Payload*						
		0%	5%	10%	15%	20%	25%	30%
mph/kmh	lbs/kg	lbs/kg	lbs/kg	lbs/kg	lbs/kg	lbs/kg	lbs/kg	lbs/kg
2.0/3.2	468/212	1800/816	1800/816	1800/816	1208/548	617/280	247/112	-
6.0/9.7	454/206	1800/816	1800/816	1800/816	1132/513	559/253	-	-
10.0/16.1	353/160	1800/816	1800/816	1240/562	564/256	-	-	-
16.0/25.7	151/68	1800/816	409/185	-	-	-	-	-

Grades designated in this chart indicate "climbing ability" of the vehicle with one operator and no bed load. Other considerations such as braking, road surface, type of load and stability must be made for safe operation. Consult factory for specific requirements.

\*Payload - Vehicle payload must not exceed vehicle payload rating. Balance of load must be trailed weight (trailer weight plus load on trailer).

\*\*Vehicle speed at Peak Torque.

†Formula: Weight to be pulled multiplied by .03 equals Drawbar Pull required except where gradeability exceeds max allowable trailer weight.