



CUSHMAN

MODEL: LSV 800
TYPE: ELECTRIC LOW SPEED TRUCK
MODEL YEAR: 2013
Part No.: 624927



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 PowerWise™ 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 access to powertrain. Removable hinged multi-position tailgate requires no latch mechanism

PRODUCT OVERVIEW

Dimensions

Overall Length	108.9 in	277 cm
Overall Width	48.5 in	123 cm
Overall Height	71.2 in	181 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	101 cm
Gnd Clearance @ Differential	4.5 in	11 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 m ³
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 PowerWise™
DC-DC Converter	30 amp - Integrated into On-board Charger

Performance

Seating Capacity & Style	2 Persons/Bucket Seats
Dry Weight	893 lb/ 405 kg
Curb Weight	1221 lb/ 554 kg
Bed Load Capacity	300 lb/ 136 kg
Vehicle load capacity	800 lb/ 363 kg
Towing Capacity	1800 lb max (See Page 2 for Gradeability)
Gross Axle Weight Rating - F	575 lb/ 261 kg
Gross Axle Weight Rating - R	2000 lb/ 907 kg
Outside Clearance Circle	19.7 ft/ 6.0 m
Speed - Low (Level Ground)	14 mph/ 22.5 kph
Speed - High (Level Ground)	25 mph/ 40.2 kph
Speed - Reverse	8 mph/ 12.9 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



OPTIONS & FIELD INSTALLED (Installation not included)*

Item	Std	Opt	Fld
Wheels & Tires:			
DOT Street Legal 205 -50-10 Radial	X		
Steel Wheels with Painted Platinum Wheel Covers	X		
Diamond Pattern Aluminum Wheels		X	
Body Colors:			
Patriot Blue	X		
Safety Yellow		X	
OPS Color (Canopy):			
White	X		
Seat Colors:			
Stone Beige	X		
Oyster		X	
Standard Features:			
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		
2-in Tow Hitch Receiver	X		

Item	Std	Opt	Fld
Standard Features: (cont.)			
Automotive Safety Glass Windshield (AS1)	X		
Windshield Mounted Automotive Style Rear View Mirror	X		
OPS (Operator Protective Structure) Rated Canopy	X		
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		
Passenger Side Mirror	X		

Item	Std	Opt	Fld
Vehicle Options:			
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	
Hydrolink Hose Supply and Hand Pump			X
Hard Cab Kit			X
OPS Mounted Amber Strobe Light			X
Heater/Defroster			X
Weather Enclosure, Soft			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	1213/550	621/282	249/113	-
6.0/9.7	455/206	1800/816	1800/816	1800/816	1136/516	562/255	-	-
10.0/16.1	354/161	1800/816	1800/816	1312/595	568/258	-	-	-
16.0/25.7	151/68	1800/816	418/190	-	-	-	-	-

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.