



**CUSHMAN**

**MODEL: COMMANDER 2100**  
**TYPE: ELECTRIC POWERED TRUCK**  
**MODEL YEAR: 2011**  
**Part No.: 76242**



**PRODUCT SPECIFICATION**

**CONFIGURATION HIGHLIGHTS**

**Precision Drive System™ (PDS):** Factory programmable to application

- Solid State continuously variable separately excited speed controller
- Dash mounted direction selector switch (Forward-Neutral-Reverse)
- Anti-roll back, walkaway braking and alarm
- Anti-stall motor protection
- Regenerative 'Pedal Down' and/or 'Pedal Up' braking
- Full torque, reduced speed reverse
- Inductive throttle sensor
- Diagnostic indicator
- Factory selectable performance options

**Battery Charger:** 48 VDC PowerWise™, 120/230 VAC 50/60 Hz. Underwriters Laboratories (U.L.) Listed, (C.S.A. Certified)  
**Motor:** 48 Volt DC shunt wound, brazed armature, solid copper windings. Non vented 2.5 hp (1.9 kW) @ 2700 rpm (1 hour)  
**Drive Train:** Direct motor shaft connected to transaxle pinion shaft  
**Electrical System:** 48 Volt DC, eight, 6 volt deep cycle storage batteries batteries (115 minute minimum, 225 amp-hour @ 20 hr. discharge rate)  
**Transaxle:** Differential with helical gears  
**Brakes:** Dual rear wheel mechanical self-adjusting drum brakes. Automatic single point park brake release with self-compensating system  
**Cargo Bed:** Roto-molded cross-linked polyethylene. Lifts for access to powertrain. Removable hinged multi-position tailgate requires no latch mechanism

**PRODUCT OVERVIEW**

**Dimensions**

Overall Length	110.5 in (280 cm)
Overall Width	49.8 in (126 cm)
Overall Height (No Canopy)	46.5 in (118 cm) (Top of steering wheel)
Overall Height (With Canopy)	72.0 in (183 cm)
Wheel Base	77.0 in (196 cm)
Front Wheel Track	37.5 in (95 cm)
Rear Wheel Track	38.0 in (97 cm)
Ground Clearance (at Differential)	4.3 in (11 cm)
Cargo Box Width (inside)	44.0 in (112 cm)
Cargo Box Length (inside)	36.0 in (91 cm)
Cargo Box Depth (inside)	10.5 in (27 cm)
Cargo Box Capacity	9.6 cu ft (0.27 m3)
Cargo Box material	Roto-molded polyethylene

**Vehicle Power**

Power Source	48 Volts DC
Motor Type	Shunt Wound
Horsepower (kW)	2.5 hp (1.9 kW) @ 2700 rpm
Electrical System	48 Volt
Batteries (Qty, Type)	Eight, 6 Volt Deep Cycle
Key or Pedal Start	Pedal Start
Battery Charger	48 V Delta Q with 10' DC Cord
Speed Controller	400 Amp Precision Drive System (PDS)
Drive Train	Motor Shaft Direct Drive
Transaxle	Differential with helical gears

Gear Selection	Dash Mounted Forward-Neutral-Reverse
Rear Axle Ratio	14.7:1

**Performance**

Seating Capacity	2 Person
Dry Weight	810 lb (370 kg) (Without Batteries)
Curb Weight	1300 lb (590 kg)
Bed Load Capacity	600 lb (270 kg)
Vehicle load capacity	1000 lb (450 kg)
Outside Clearance Circle	22.0 ft (6.7 m)
Intersecting Aisle Clearance	N/A
Ground Speed (Level Ground)	13 mph ± 0.5 mph (21 kph ± 0.8 kph)
Towing Capacity	600 lb (270 kg) max load

**Steering & Suspension**

Steering	Self-compensating rack and pinion
Front Suspension	Leaf springs with hydraulic shock absorbers
Rear Suspension	Leaf springs with hydraulic shock absorbers
Service Brake	Rear wheel mechanical self-adjusting drum
Parking Brake	Self-compensating, single point engagement
Front Tires	5.70 x 8 - 8 (Load Range C)
Rear Tires	5.70 x 8 - 8 (Load Range C)

**Body & Chassis**

Frame	Welded steel with DuraShield™ powder coat
Front Body & Finish	Injection molded TPO
Rear Body & Finish	Steel. Base coat/clear coat
Standard Color	Ivory

*Some items shown may be optional equipment*



**CUSHMAN.**

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

Item	Std	Opt	Fld
<b>TIRES &amp; WHEELS:</b>			
<b>Front &amp; Rear:</b>			
5.70 x 8 - 8 (Load Range C)	●		
18.50 x 8.50 - 8 (Load Range C)		●	
<b>Wheel Covers:</b>			
Spoke, Black & Gold		●	
Spoke, Black & Silver		●	
<b>COLORS:</b>			
Body Color - Yellow		●	
Body Color - Ivory	●		
Body Color - Hunter Green		●	
Body Color - Bright White		●	
Body Color - Black		●	
Custom Body Color		●	
<b>Seating:</b>			
Seat Color - Black	●		
Seat Color - Oyster		●	
Seat Color - White		●	
Seat Color - Tan		●	
<b>HAULING &amp; TOWING:</b>			
1 7/8 in (48 mm) Ball (Rcvr Req'd)		●	
1 7/8 in (48 mm) Ball, Drop (Rcvr Req'd)		●	
2 in (5 cm) Receiver (Rear)		●	
Angle Hitch (Rcvr Req'd)		●	
Angle Hitch, Drop (Rcvr Req'd)		●	
Clevis Hitch (Rcvr Req'd)		●	
Clevis Hitch, Drop (Rcvr Req'd)		●	
Power Dump (Electric)		●	
Trailer, Dump (Poly Bed)			●
Trailer, Dump (Steel Bed)			●
<b>OTHER PERFORMANCE:</b>			
Ash Tray		●	
Differential Guard		●	
Front Bumper & Guard (Black)		●	
Front Hydraulic Disc Brakes		●	
Glove Box Door (Locking) Driver Side		●	
Glove Box Door (Locking) Passenger Side		●	
Rear View Mirror (Sun Canopy Required)			●
<b>ELECTRICAL:</b>			
<b>Battery Chargers</b>			
48 Volt- 230 VAC 60 Hz		●	
48 Volt Delta Q with 18' (5.5 m) DC Cord		●	
48 Volt-120VAC 60 Hz		●	
48 Volt-SCR		●	
<b>Lighting Package:</b>			
Brake Lights		●	
Headlights	●		

Item	Std	Opt	Fld
Headlights & Taillights		●	
Strobe Light		●	
Turn Signals with 4-Way Flashers		●	
Work Lights		●	
Work Lights with Strobe Light		●	
<b>Miscellaneous:</b>			
CE Kit		●	
Certification Module 'E'	●		
Certification Module 'EE'		●	
Horn	●		
Hour Meter		●	
State of Charge Meter	●		
Unique Individual Key Switch		●	
<b>WEATHER PROTECTION:</b>			
Brush Guard Cage for Windshield & Top			●
Sun Canopy (Top) Champagne			●
Sun Canopy (Top) Tan			●
Sun Canopy (Top) Tan (Brush Guard Cage Required)			●
Weather Enclosure, Tan (3 Side, Top & Windshield Req'd)			●
Weather Enclosure, White (3 Side, Top & Windshield Req'd)			●
Windshield (Brush Guard Cage Required)			●
Windshield Flat			●
Windshield Flat Lexan®			●
Windshield Fold Down			●
Windshield Fold Down Lexan®			●
<b>VEHICLE CAB:</b>			
Steel Cab (Tan):			●
Steel Cab (White):			●
Steel Cab (Non Standard Color):			●
Beacon, Amber (Cab Required)			●
Defroster/Fan (Cab Required)			●
Dome Light (Cab Required)			●
Doors (Steel) Tan (Cab Required)			●
Doors (Steel) White (Cab Required)			●
Doors (Steel) Non Standard Color (Cab Required)			●
Doors (Vinyl) Tan (Cab Required)			●
Rear View Mirror (Cab Required)			●
Strobe Light (Cab Required)			●
Windshield Wiper (Cab Required)			●
Work Light (Cab Required)			●