



A Textron Company

MODEL: ST EXPRESS
TYPE: ELECTRIC POWERED PERSONNEL CARRIER
MODEL YEAR: 2009
Part No.: 606823



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
- Eight, 6 Volt Deep Cycle
- Full torque, reduced speed reverse
- Inductive throttle sensor
- Diagnostic indicator
- Factory selectable performance options

Battery Charger: Delta Q, 48 VDC. H120/230 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 15.2 hp (11.3 kW) at 1600 rpm (1hour)

Drive Train: Direct motor shaft connected to transaxle pinion shaft

Electrical System: 48 Volt DC, eight, 6 volt deep cycle storage batteries (107 minute, 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

Capacity: Choice of 6 seats (Std) or 4 seats and optional Wood Stake Sides or Roto-molded Cargo box.
Cargo Bed: Roto-molded cross-linked polyethelene. Removable hinged multi-position tailgate requires no latch mechanism

PRODUCT OVERVIEW

Dimensions

Overall Length	138.0 in (351 cm)
Overall Width	46.5 in (119 cm)
Overall Height (No Canopy)	52.5 in (133.5 cm) (Top of steering wheel)
Overall Height (With Canopy)	76.0 in (193 cm)
Wheel Base	95.0 in (241 cm)
Front Wheel Track	37.5 in (95 cm)
Rear Wheel Track	38.5 in (98 cm)
Gnd Clearance @ Differential	7.0 in (18 cm)

Vehicle Power

Power Source	48 Volts DC
Motor Type	Shunt Wound
Horsepower (kW)	15.2 hp (11.3 kW) @ 1600 rpm
Electrical System	48 Volt
Batteries (Qty, Type)	Eight, 6 Volt Deep Cycle
Key or Pedal Start	Pedal Start
Battery Charger	48 VDC Delta Q, 120/230 VAC, UL & CSA
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 (Rear Facing Seat)	6 Person
Seating (Bed/Stake sides)	4 Person
Dry Weight	710 lb (320 kg) (Without Batteries)
Curb Weight	1200 lb (540 kg)
Vehicle load capacity	1198 lb (540 kg)
Outside Clearance Circle	25.5 ft (7.8 m)
Intersecting Aisle Clearance	6.5 ft (1.98 m)
Speed (Level Ground)	16 mph ± 0.5 mph (26 kph ± 0.8 kph)
Towing Capacity	N/A

Steering & Suspension

Steering	Self-compensating reduction 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	Terra Trac 23 x 10.5 - 12 on Alloy Wheel
Rear Tires	Terra Trac 23 x 10.5 - 12 on Alloy Wheel

Body & Chassis

Frame	Welded steel. DuraShield™ powder coat
Front Body & Finish	Injection molded Gelyo XTW
Seat Pod	Fiberglass & Gelcoat
Rear Body & Finish	Injection molded TPO
Standard Color	Black

Some items shown may be optional equipment



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OPTIONS & FIELD INSTALLED ACCESSORIES (Installation not included)*

Item	Std	Opt	Fld	Item	Std	Opt	Fld
TIRES & WHEELS:							
Front & Rear:							
Terra Trac 23 x 10.5 - 12 on Alloy Wheel	●						
COLORS:							
Black Body w/Red on Black Seats & Rear Seat	●						
Electric Blue Body w/White on Blue Seats & Rear Seat		●					
Black Body w/Red on Black Seats. Stake Sides		●					
Electric Blue Body w/White on Blue Seats. Stake Sides		●					
Black Body w/Red on Black Seats. Roto-molded Bed		●					
Electric Blue Body w/Wht on Blue Seats. Roto-molded Bed		●					
Pin Stripes:							
White							
Red							
ELECTRICAL:							
Battery Chargers:							
48 V Lester PowerWise, 120 VAC, UL & CSA	●						
48 Volt PowerWise SCR, 120 VAC, 50/60 Hz (Japan)		●					
48 Volt PowerWise, 230 VAC, 50 Hz		●					
48 Volt Delta-Q, 10 ft (3 m) DC Cord		●					
48 Volt Delta-Q, 18 ft (5.5 m) DC Cord		●					
Battery Charger Delete		●					
Miscellaneous:							
Batteries Trojan T145-Lo Profile		●					
Brake/Tail Lights	●						
Head Lights	●						
Hour Meter		●					
State of Charge Meter	●						
Turn Signals with 4-Way Flashers		●					
OTHER PERFORMANCE:							
3 Bar Black Brush Guard		●					
3 Bar Black Brush Guard Delete		●					
Ash Tray		●					
Rear View Mirror (Sun Canopy Required)			●				
WEATHER PROTECTION:							
Sun Canopy 118 in (300 cm) (Champagne)			●				
Sun Canopy 82 in (208 cm) (Black)			●				
Windshield Flat			●				
Windshield Fold Down			●				