



A Textron Company

MODEL: SHUTTLE™ 4
TYPE: ELECTRIC POWERED PERSONNEL CARRIER
MODEL YEAR: 2009

Part No.: 600918 *

** Same as Shuttle 6 with Cargo Box option selected*



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. Intermittant Horsepower 18.1 hp (13.5 kW) at 1900 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

PRODUCT OVERVIEW

Dimensions

Overall Length	133.0 in (338 cm)
Overall Width	46.5 in (119 cm)
Overall Height (No Canopy)	48.6 in (123 cm) (Top of steering wheel)
Overall Height (With Canopy)	72.0 in (183 cm)
Wheel Base	93.5 in (237 cm)
Front Wheel Track	34.2 in (86.7 cm)
Rear Wheel Track	38.0 in (97 cm)
Gnd Clearance @ Differential	4.3 in (11 cm)
Cargo Box Width (inside)	42.5 in (108 cm)
Cargo Box Length (inside)	32.0 in (80 cm)
Cargo Box Depth (inside)	11.5 in (29 cm)
Cargo Box Capacity	9 cu ft (.25 m3)
Cargo Box material	Wood Stake Sides

Vehicle Power

Power Source	48 Volts DC
Motor Type	Shunt Wound
Continuous Horsepower (kW)	2.5 hp (1.9 kW)
Intermittent Horsepower (kW)	18.1 hp (13.5 kW) @ 1900 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 Capacity	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	N/A
Speed (Level Ground)	13 mph ± 0.5 mph (21 kph ± 0.8 kph)

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	Links 18 x 8.50 - 8 (4 Ply Rated)
Rear Tires	Links 18 x 8.50 - 8 (4 Ply Rated)

Body & Chassis

Frame	Welded steel. DuraShield™ powder coat
Body & Finish	Injection molded TPO
Seat Pod	Fiberglass & Gelcoat
Standard Color	Champagne

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:				State of Charge Meter			
Front:				OTHER PERFORMANCE:			
Links 18 x 8.50 - 8 (4 Ply Rated)	•			Ash Tray		•	
USA Trail 18 x 8.50 - 8 (Load Range C)		•		Front Disc Brakes		•	
Rear:				Rear View Mirror (Sun Canopy Required)			
Links 18 x 8.50 - 8 (4 Ply Rated)	•			WEATHER PROTECTION:			
USA Trail 18 x 8.50 - 8 (Load Range C)		•		Sun Canopy 118 in (300 cm) (Champagne)			•
Wheel Covers:				Windshield Flat			
Spoke, Black & Gold		•		Windshield Fold Down			•
Spoke, Black & Silver		•					
Chrome 6 in (15 cm)		•					
Chrome 8 in (20 cm)		•					
COLORS:							
Body Color - Champagne	•						
Body Color - Hunter Green		•					
Custom Body Color		•					
Pin Stripes:							
Gold		•					
Dark Green		•					
White		•					
Black		•					
Red		•					
Burgundy		•					
Non Standard Color		•					
Seating:							
Seat Color - Oyster	•						
Seat Color - Tan		•					
Seat Color - Gray		•					
Custom Seat Color		•					
ELECTRICAL:							
Battery Chargers:							
48 VDC PowerWise™, 120 VAC, UL & CSA	•						
48 VDC PowerWise™ SCR, 120 VAC, 50/60 Hz (Japan)		•					
48 VDC PowerWise™, 230 VAC, 50 Hz		•					
48 VDC Delta-Q, 10 ft (3 m) DC Cord		•					
48 VDC Delta-Q, 18 ft (5.5 m) DC Cord		•					
Battery Charger Delete		•					
Miscellaneous:							
DC Converter		•					
Batteries Trojan T145-Lo Profile		•					
Brake Lights		•					
Head Lights		•					
Horn	•						
Hour Meter		•					
Individual Key Switch		•					
Unique Group Key Switch		•					
Turn Signals with 4-Way Flashers		•					



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MODEL: SHUTTLE™ 4

TYPE: GAS POWERED PERSONNEL CARRIER

MODEL YEAR: 2009

Part No.: 600923 *, 604811 * California

** Same as Shuttle 6 with Cargo Box option selected*



PRODUCT SPECIFICATION

CONFIGURATION HIGHLIGHTS

- Engine:** 13 hp (9.7 kW) Exceeds SAE J1940 Standard, 4 cycle, 24.5 ci (401 cc) single cylinder, air-cooled by Kawasaki
- **Valve Train:** Overhead valve
- **Lubrication:** Pressurized oil system, spin-on oil filter
- **Balancer:** Internal counter rotating balance shaft
- **Fuel System:** Fixed float bowl with remote pulse fuel pump
- **Ignition:** Electronic spark/magneto
- **Air Cleaner:** Replaceable dry cartridge
- Electrical:** Starter/Generator, solid-state regulator, 12 Volt maintenance free battery (425 CCA, 60 minute reserve)
- Drive Train:** Automatic, continuously variable transmission (CVT)
- Brakes:** Dual rear wheel mechanical self-adjusting drum brakes. Single point park brake release with self-compensating system
- Transaxle:** Differential with helical gears, ground speed governor, forward/reverse

PRODUCT OVERVIEW

Dimensions

Overall Length	133.0 in (338 cm)
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Overall Height (No Canopy)	48.6 in (123 cm) (Top of steering wheel)
Overall Height (With Canopy)	72.0 in (183 cm)
Wheel Base	93.5 in (237 cm)
Front Wheel Track	34.2 in (86.7 cm)
Rear Wheel Track	38.0 in (97 cm)
Gnd Clearance @ Differential	4.3 in (11 cm)
Cargo Box Width (inside)	42.5 in (108 cm)
Cargo Box Length (inside)	32.0 in (80 cm)
Cargo Box Depth (inside)	11.5 in (29 cm)
Cargo Box Capacity	9 cu ft (.25 m3)
Cargo Box material	Wood Stake Sides

Vehicle Power

Power Source	4 Cycle 24.5 cu in (401 cc). Low Emission
Valve Train	Single Cylinder OHV
Horsepower (kW)	13 hp (9.7 kW) Exceeds SAE J1940 Std.
Electrical System	Starter/Generator. Solid State Regulator
Battery (Qty, Type)	One, 12 Volt Maintenance Free
Key or Pedal Start	Pedal
Air Cleaner	Industrial Rated Dry Filter
Lubrication	Pressurized Oil System
Oil Filter	Spin-On
Cooling System	Air Cooled
Fuel Capacity	5.8 Gallon (22.0 L) tank
Drive Train	Continuously variable transmission (CVT)
Transaxle	Differential with helical gears
Gear Selection	Forward - Reverse
Rear Axle Ratio	11.42:1 (Forward) 15.78:1 (Reverse)

Performance

Seating Capacity	4 Person
Dry Weight	886 lb (400 kg)
Curb Weight	926 lb (420 kg)
Bed Load Capacity	400 lb (180 kg)
Vehicle load capacity	1200 lb (540 kg)
Outside Clearance Circle	25.5 ft (7.8 m)
Intersecting Aisle Clearance	N/A
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	Links 18 x 8.50 - 8 (4 Ply Rated)
Rear Tires	Links 18 x 8.50 - 8 (4 Ply Rated)

Body & Chassis

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

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:				OTHER PERFORMANCE:			
Front:				Ash Tray			
Links 18 x 8.50 - 8 (4 Ply Rated)	●			Differential Scuff Guard	●		
USA Trail 18 x 8.50 - 8 (Load Range C)		●		Front Disc Brakes		●	
Rear:				No Fuel Option			
Links 18 x 8.50 - 8 (4 Ply Rated)	●			Rear View Mirror (Sun Canopy Required)			●
USA Trail 18 x 8.50 - 8 (Load Range C)		●		Sound Control Package		●	
Wheel Covers:				WEATHER PROTECTION:			
Spoke, Black & Gold		●		Sun Canopy 118 in (300 cm) (Champagne)			●
Spoke, Black & Silver		●		Windshield Flat			●
Chrome 6 in (15 cm)		●		Windshield Fold Down			●
Chrome 8 in (20 cm)		●					
COLORS:							
Body Color (Champagne)	●						
Body Color (Hunter Green)		●					
Custom Body Color		●					
Pin Stripes:							
Gold		●					
Dark Green		●					
White		●					
Black		●					
Red		●					
Burgundy		●					
Non Standard Color		●					
Seating:							
Seat Color (Oyster)	●						
Seat Color (Tan)		●					
Seat Color (Gray)		●					
Custom Seat Color		●					
ELECTRICAL:							
Miscellaneous:							
Brake Lights		●					
CE Kit		●					
Fuel Gauge	●						
Head Lights		●					
Horn	●						
Hour Meter		●					
Individual Key Switch		●					
Low Oil Indicator	●						
Turn Signals with 4-Way Flashers		●					
Unique Group Key Switch		●					