



A Textron Company

MODEL: SHUTTLE™ 2+2
TYPE: ELECTRIC PERSONNEL CARRIER
MODEL YEAR: 2009
Part No.: 606604



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
- 230 Amp AC Controller
- Full torque, reduced speed reverse
- Sealed Hall effect throttle sensor
- Full diagnostic capability (Hand held diagnostic unit)
- Six field selectable speeds with hand held diagnostic unit

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

Battery Charger: 48 VDC PowerWise™ High Frequency, 120/230 VAC 50/60 Hz. Underwriters Laboratories (U.L.) Listed, (C.S.A. Certified)

Electrical System: 48 Volt DC, four, 12 volt deep cycle storage batteries batteries (60 minute minimum, 140 amp-hour @ 20 hr. discharge rate)

Drive Train: Direct motor shaft connected to transaxle pinion shaft

Transaxle: Differential with reverse helical gears

Brakes: Induction motor. Electro-magnetic parking brake is applied automatically

Body Protection: 360° energy transfer bumpers maximize vehicle protection from minor impact

PRODUCT OVERVIEW

Dimensions		Performance	
Overall Length	105.5 in (268 cm)	Seating Capacity	4 Person
Overall Width	47.0 in (119 cm)	Dry Weight	645 lb (295 kg) (Without Batteries)
Overall Height (No Canopy)	45.7 in (116 cm)	Curb Weight	1000 lb (455 kg)
Overall Height (With Canopy)	74.0 in (188 cm)	Vehicle load capacity	720 lb (325 kg)
Wheel Base	65.7 in (167 cm)	Outside Clearance Circle	19.2 ft (5.8 m)
Front Wheel Track	35.5 in (90 cm)	Intersecting Aisle Clearance	N/A
Rear Wheel Track	38.0 in (97 cm)	Speed (Level Ground)	8-15 mph (13 - 24 kph) Programmable
Gnd Clearance @ Differential	4.5 in (11 cm)	Towing Capacity	N/A
Vehicle Power		Steering & Suspension	
Power Source	48 Volts DC	Steering	Double Ended Rack & Pinion
Motor Type	48 Volt AC	Front Suspension	Independent A-Arm Coil Over Shock
Horsepower (kW)	4.4 hp (3.3 kW) Continuous	Rear Suspension	Mono-Leaf Spring With Hydraulic Shocks
Electrical System	48 Volt	Service Brake	Induction Motor
Batteries (Qty, Type)	Four, 12 Volt Deep Cycle	Parking Brake	Automatic Electro-Magnetic
Key or Pedal Start	Pedal	Front Tires	Links 18 x 8.50 - 8 (4 Ply Rated)
Battery Charger	48 VDC PowerWise™ w/10 ft (3 m) DC Cord	Rear Tires	Links 18 x 8.50 - 8 (4 Ply Rated)
Speed Controller	235 Amp AC Controller	Body & Chassis	
Drive Train	Motor Shaft Direct Drive	Frame	Welded Steel with DuraShield™ powder coat
Transaxle	Limited Slip Differential	Body & Finish	Injection molded TPO
Gear Selection	Dash Mounted Forward-Neutral-Reverse	Standard Color	Forest Green
Rear Axle Ratio	16.99:1		

Some items shown may be optional equipment



A Textron Company

OPTIONS & FIELD INSTALLED ACCESSORIES (Installation not included)*

Item	Std	Opt	Fld	Item	Std	Opt	Fld
TIRES & WHEELS:				ELECTRICAL:			
Front:				Battery Chargers:			
Links 18 x 8.50 - 8 (4 Ply Rated)	●			Powerwise QE 48 VDC 10 ft (3.0 m) DC Cord	●		
T Shot, 18 x 8.50 - 8 (4 Ply Rated)		●		Powerwise QE 48 VDC 18 ft (5.5 m) DC Cord		●	
Rear:				World Charger 48 VDC 18 ft (5.5 m) DC Cord		●	
Links 18 x 8.50 - 8 (4 Ply Rated)	●			World Charger 48 VDC 10 ft (3.0 m) DC Cord		●	
T Shot, 18 x 8.50 - 8 (4 Ply Rated)		●		Miscellaneous:			
USA Trail 18 x 8.50 - 8 (Load Range C)		●		CE Kit		●	
Wheel Covers:				Headlights & Taillights	●		
Spoke, Platinum		●		Hand Held Diagnostic Unit			●
COLORS:				Heavy Duty Batteries (T-1275)		●	
Body Color (Forest Green) - Freedom	●			Horn	●		
Body Color (Ivory) - Freedom		●		Turn Signals with 4 Way Flashers		●	
Body Color (Patriot Blue) - Freedom		●		WEATHER PROTECTION:			
Body Color (Black) - Freedom		●		Sun Canopy (Top) Stone Beige 80 in (203 cm)			●
Body Color (Burgundy) - Freedom		●		Sun Canopy (Top) Oyster 80 in (203 cm)			●
Body Color (Bright White) - Freedom		●		Windshield Fold Down (Requires Sun Canopy)			●
Body Color (Flame Red) - Freedom		●					
Body Color (Steel Blue) - Freedom		●					
Body Color (Platinum) - Freedom		●					
Body Color (Almond) - Freedom		●					
Body Color (Electric Blue) - Freedom		●					
Body Color (Inferno Red) - Freedom		●					
Body Color (Custom) - Freedom		●					
Pin Stripes:							
Gold		●					
Seating							
Seat Color (Stone Beige)	●						
Seat Color (Oyster)		●					
OTHER PERFORMANCE:							
360° Energy Transfer Bumpers	●						
2 Bag Carrier			●				
Ash Tray		●					
Battery Fill System Nozzle (Gun)			●				
Battery Fill System		●					
Glove Box Doors, Driver & Passenger		●					
Message Holder			●				
Mirror, 5 Panel Rear View			●				