



A Textron Company

MODEL: SHUTTLE™ 2+2
TYPE: ELECTRIC PERSONNEL CARRIER
MODEL YEAR: 2010
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



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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	●			Horn	●		
Body Color - Ivory		●		Turn Signals with 4 Way Flashers		●	
Body Color - Patriot Blue		●		State of Charge Meter	●		
Body Color - Black		●		WEATHER PROTECTION:			
Body Color - Burgundy		●		Sun Canopy (Top) Stone Beige 80 in (203 cm)			●
Body Color - Bright White		●		Sun Canopy (Top) Oyster 80 in (203 cm)			●
Body Color - Flame Red		●		Windshield Fold Down (Requires Sun Canopy)			●
Body Color - Steel Blue		●					
Body Color - Platinum		●					
Body Color - Almond		●					
Body Color - Electric Blue		●					
Body Color - Inferno Red		●					
Body Color - Custom		●					
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			●				



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MODEL: SHUTTLE™ 2+2

TYPE: GASOLINE POWERED PERSONNEL CARRIER

MODEL YEAR: 2010

Part No.: 606605



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
- **Fuel System:** Fixed float bowl with remote pulse fuel pump
- **Lubrication:** Pressurized oil system, spin-on oil filter
- **Ignition:** Electronic spark/magneto
- **Balancer:** Internal counter rotating balance shaft
- **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. Automatic single point park brake release with self-compensating system

Transaxle: Differential with helical gears, ground speed governor, forward/reverse

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

PRODUCT OVERVIEW

Dimensions

Overall Length	105.5 in (268 cm)
Overall Width	47.0 in (119 cm)
Overall Height (No Canopy)	45.7 in (116 cm)
Overall Height (With Canopy)	74.0 in (188 cm)
Wheel Base	65.7 in (167 cm)
Front Wheel Track	35.5 in (90 cm)
Rear Wheel Track	38.0 in (97 cm)
Gnd Clearance @ Differential	3.3 in (8 cm)

Performance

Seating Capacity	4 Person
Dry Weight	790 lb (360 kg)
Curb Weight	850 lb (385 kg)
Vehicle load capacity	720 lb (325 kg)
Outside Clearance Circle	19.0 ft (5.8 m)
Intersecting Aisle Clearance	N/A
Speed (Level Ground)	14 mph ± 0.5 mph (23 kph ± 0.8 kph)
Towing Capacity	N/A

Vehicle Power

Power Source	4 Cycle 24.5 cu in (401 cc)
Valve Train	Single Cylinder OHV
Horsepower (kW)	13 hp (9.7 kW) Exceeds SAE J1940 Std.
Electrical System	Starter/Generator. Solid State Regulator
Batteries (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	6.2 Gallon (23.5 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)

Steering & Suspension

Steering	Double Ended Rack & Pinion
Front Suspension	Independent A-Arm Coil Over Shock
Rear Suspension	Multi-Leaf Spring with Hydraulic Shocks
Service Brake	Rear Wheel Mechanical Self-Adjusting Drums
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
Standard Color	Forest Green

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:				WEATHER PROTECTION:			
Front:				Sun Canopy (Top) Stone Beige 80 in (203 cm)			●
Links 18 x 8.50 - 8 (4 Ply Rated)	●			Sun Canopy (Top) Oyster 80 in (203 cm)			●
T Shot, 18 x 8.50 - 8 (4 Ply Rated)		●		Windshield Fold Down (Requires Sun Canopy)			●
Rear:							
Links 18 x 8.50 - 8 (4 Ply Rated)	●						
T Shot, 18 x 8.50 - 8 (4 Ply Rated)		●					
USA Trail 18 x 8.50 - 8 (Load Range C)		●					
Wheel Covers:							
Spoke, Platinum		●					
COLORS:							
Body Color - Forest Green	●						
Body Color - Ivory		●					
Body Color - Patriot Blue		●					
Body Color - Black		●					
Body Color - Burgundy		●					
Body Color - Bright White		●					
Body Color - Flame Red		●					
Body Color - Steel Blue		●					
Body Color - Platinum		●					
Body Color - Almond		●					
Body Color - Electric Blue		●					
Body Color - Inferno Red		●					
Pin Stripes:							
Gold		●					
Seating							
Seat Color - Stone Beige	●						
Seat Color - Oyster		●					
OTHER PERFORMANCE:							
360° Energy Transfer Bumpers	●						
2 Bag Carrier			●				
Ash Tray		●					
Glove Box Doors, Driver & Passenger		●					
Message Holder			●				
ELECTRICAL:							
Miscellaneous:							
Headlights/Taillights	●						
Brake Lights	●						
Horn	●						
Hourmeter		●					
Mirror, 5 Panel Rear View			●				
Turn Signals with 4-Way Flashers		●					