



A Textron Company

MODEL: SHUTTLE™ 2

TYPE: ELECTRIC PRECISION DRIVE SYSTEM CARGO CARRIER

MODEL YEAR: 2009

Part No.: 600071



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: 48 VDC Lester PowerWise™, 120 VAC, 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	138.0 in (351 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)	74.0 in (188 cm)
Wheel Base	93.5 in (237 cm)
Front Wheel Track	34.2 in (85 cm)
Rear Wheel Track	38.0 in (97 cm)
Gnd Clearance @ Differential	4.3 in (11 cm)
Cargo Bed Width	44.0 in (112 cm)
Cargo Bed Length	68.5 in (174 cm)

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 V Lester PowerWise, 120 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	2 Person
Dry Weight	710 lb (320 kg) (Without Batteries)
Curb Weight	1200 lb (545 kg)
Vehicle load capacity	1000 lb (540 kg)
Outside Clearance Circle	25.5 ft (7.8 m)
Intersecting Aisle Clearance	N/A
Ground Speed (Level Ground)	13 mph ± 0.5 mph (21 kph ± 0.8 kph)
Towing Capacity	N/A

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
Front Body & Finish	Injection molded TPO. Base coat/clear coat
Rear Body & Finish	Steel. Base coat/clear coat
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:							
Front:							
Links 18 x 8.50 - 8 (4 Ply Rated)	●			Horn	●		
USA Trail 18 x 8.50 - 8 (Load Range C)		●		Hour Meter		●	
Rear:							
Links 18 x 8.50 - 8 (4 Ply Rated)	●			Individual Key Switch		●	
USA Trail 18 x 8.50 - 8 (Load Range C)		●		State of Charge Meter	●		
Wheel Covers:							
Spoke, Black & Gold		●		Turn Signals with 4-Way Flashers		●	
Spoke, Black & Silver		●		WEATHER PROTECTION:			
Chrome 6 in (15 cm)		●		Sun Canopy (Champagne) 118 in (300 cm)			●
Chrome 8 in (20 cm)		●		Windshield Flat			●
COLORS:							
Body Color (Champagne)	●			Windshield Fold Down			●
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		●					
OTHER PERFORMANCE:							
Ash Tray		●					
Drop Side Rails			●				
Rear View Mirror (Sun Canopy Required)			●				
Front Disc Brakes		●					
ELECTRICAL:							
Battery Chargers:							
48 VDC Lester 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		●					
Batteries Trojan T125-Lo Profile		●					



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MODEL: SHUTTLE™ 2

TYPE: GASOLINE POWERED CARGO CARRIER

MODEL YEAR: 2009

Part No.: 600519, 604811 California



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. Single point park brake release with self-compensating system		
Transaxle:	Differential with helical gears, ground speed governor, forward/reverse		

PRODUCT OVERVIEW

Dimensions		Performance	
Overall Length	138.0 in (351 cm)	Seating Capacity	2 Persons
Overall Width	46.5 in (118 cm)	Dry Weight	841 lb (380 kg)
Overall Height (No Canopy)	48.6 in (123 cm) (Top of steering wheel)	Curb Weight	881 lb (400 kg)
Overall Height (With Canopy)	74.0 in (188 cm)	Vehicle load capacity	1200 lb (545 kg)
Wheel Base	93.5 in (237 cm)	Outside Clearance Circle	25.5 ft (7.8 m)
Front Wheel Track	34.2 in (89 cm)	Intersecting Aisle Clearance	N/A
Rear Wheel Track	38.0 in (97 cm)	Speed (Level Ground)	16 mph ± 0.5 mph (26 kph ± 0.8 kph)
Gnd Clearance @ Differential	4.75 in (12 cm)	Towing Capacity	N/A
Cargo Bed Width	44.0 in (112 cm)	Steering & Suspension	
Cargo Bed Length	68.5 in (174 cm)	Steering	Self-compensating rack and pinion
Vehicle Power		Front Suspension	Leaf springs with hydraulic shock absorbers
Power Source	4 Cycle 24.5 cu in (401 cc). Low Emission	Rear Suspension	Leaf springs with hydraulic shock absorbers
Valve Train	Single Cylinder OHV	Service Brake	Rear wheel mechanical self-adjusting drum
Horsepower (kW)	13 hp (9.7 kW) Exceeds SAE J1940 Std.	Parking Brake	Self-compensating, single point engagement
Electrical System	Starter/Generator. Solid State Regulator	Front Tires	Links 18 x 8.50 - 8 (4 Ply Rated)
Battery (Qty, Type)	One, 12 Volt Maintenance Free	Rear Tires	Links 18 x 8.50 - 8 (4 Ply Rated)
Key or Pedal Start	Pedal	Body & Chassis	
Air Cleaner	Industrial Rated Dry Filter	Frame	Welded steel. DuraShield™ powder coat
Lubrication	Pressurized Oil System	Front Body & Finish	Injection molded TPO
Oil Filter	Spin-On	Rear Body & Finish	Steel. Base coat/clear coat
Cooling System	Air Cooled	Standard Color	Champagne
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)		

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:				Miscellaneous:			
Front:				CE Kit		●	
Links 18 x 8.50 - 8 (4 Ply Rated)	●			Hour Meter		●	
USA Trail 18 x 8.50 - 8 (Load Range C)		●		Unique Individual Key Switch		●	
Rear:				Turn Signals with 4-Way Flashers		●	
Links 18 x 8.50 - 8 (4 Ply Rated)	●			WEATHER PROTECTION:			
USA Trail 18 x 8.50 - 8 (Load Range C)		●		Sun Canopy (Top) 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		●					
OTHER PERFORMANCE:							
Ash Tray		●					
Drop Side Rails			●				
Front Disc Brakes		●					
High Altitude Jetting		●					
No Fuel Option		●					
Rear View Mirror (Sun Canopy Required)			●				
ELECTRICAL:							
Brake Lights		●					
Fuel Gauge	●						
Headlights		●					
Horn	●						
Low Oil Indicator	●						