## 2012 BM624 TIER 3

**SERIAL NUMBER 1-BM624-25U** 

## **SPECIFICATIONS**

## EXPANDABLE HOPPER SELF-PROPELLED CHIP SPREADER WITH 4 WHEEL DRIVE, POWERSHIFT TRANSMISSION, PLUS 1 RATE AND GATE CONTROL

These specifications are intended to describe a power-shift transmission, self-propelled chip spreader in enough detail to provide bids on comparable chip spreaders. These specifications do not describe each and every part of the chip spreader necessary to provide a complete unit, but address the differences necessary to include in a bid description to insure you receive the item you are requiring. It is understood that all materials and workmanship shall be to industry standards. Bids received that do not conform to these specifications will be rejected. All bidders shall conform to all requirements of these specifications unless exceptions or deviations from the specifications have been specifically authorized by the bid letting authority in writing.

The purpose of the chip spreader is to apply uniformly a cover of aggregate, natural or man made, over an emulsion that has been applied to a road surface in the process of seal coating.

1.0 CAPACITY:		YES	NO
440 11 77 7714	11.42	TIEG	
1.1 Receiving Hopper Width	114"	YES	
Fuel Tank – gallons	80 Gal	YES	
Hydraulic Oil Tank - gallons	64 Gal.	YES	
1.2 Rear Receiving Hopper Cap.	6.0 cu. yd.	YES	
(Cu. Yd.)/ wt.			
2.0 ENGINE:			
Mfg. std engMake / Model	CAT 3126B		
	TIER 3		
	CUMMINS-		
	QSB.7 TIER 3	YES	
Gross HP/Net HP	225 HP	YES	
Fuel Type	Diesel	YES	
Current hour meter reading	161	YES	
2.1 Min. SAE J1349 Net Flywheel HP @ governed	225 HP @	YES	
Rpm's	2200 rpm		
Gross HP	HP	YES	
@ RPM	2200 rpm	YES	
2.2 Displacement cu. in. / cm 3	402 C.I. (6.6)	YES	
Fuel Consumption, Full Load	9.4 gal/hr	YES	
Electrical System, 12 Volts (min)	Yes	YES	
2.3 No. of Cylinders	6	YES	
2.4 Alternator Output, 90 Amps.(min.)	115 amp	YES	

1000 CG4 ( ' )	050 004	VEC
2.4 Battery rating, 1,000 CCA (min.) ea.	950 CCA ea.	YES
	Minimum 2	
	Batteries	
2.5 Ignition switch /prevent from starting when transmission	Yes	YES
is in gear	X7	VEC
2.6 Diesel fuel system, factory installed:	Yes	YES
Fuel filtration screen	Yes	YES
Two stage filter	Yes	YES
drain	Yes	YES
2.7 Full-flow oil filtration system w/ bypass	Yes	YES
2.8 Air Cleaner	Dry, dual	YES
2.8 All Cicalici	element	1 LS
2.9 Cooling w/ antifreeze protection to	Yes	YES
-30 ° F	105	1 LS
2.10 Muffler & exhaust	Max. Silence	YES
2.11 List type of starting aid used, example: glow plugs,		
preheater or ether		
3.0 INSTRUMENTATION	Plus 1 System	YES
3.1 Coolant temp. gauge	Yes	YES
3.2 Oil pressure gauge	Yes	YES
3.4 Ammeter or voltmeter gauge	Yes	YES
3.5 Hour-meter gauge	Yes	YES
4.0 DRIVE TRAIN:		
TRANSMISSION:		
4.1 Power-shift	Yes – FUNK	YES
	LONGDROP	
Drive Wheels	Four Wheel	YES
4 Wheel Drive	Yes	YES
Speeds Foreword	6	YES
Speeds Reverse	3	YES
Axle Diff.		
	19.03 to 1 rear	YES
Speed - Travel Mode	0 to 21	YES
Speed - Spreading	0-15	YES
5.0 HYDRAULIC SYSTEM:		
5.1 Sealed system	Yes	YES
5.2 working temp. maintained @ 110°F	Maximum 180	YES
7296	degrees	ATEC
5.3 Safety relief valve	Yes	YES
5.4 Replaceable hyd. Oil filter,	Yes	YES
max.10 micron	Sight Class	VEC
5.5 Hydraulic reservoir level sight gauge or dip stick. State	Sight Glass	YES
type 5.6 Hydraulic hoses shielded @ engine	Yes	YES
Hydraulic tank size	64 gallon	YES
11yaraunc tank size	04 ganon	1 LO
	L	

6.0 WHEELS & TIRES:		
6.0 Highway tread – std. 385/65R22.5	Yes	YES
6.0 Min. tire ply rating – 16 ply. rated	Yes	YES
6.0 Steel disc wheels	Yes	YES
Mfg. std tire	385/65R22.5	YES
6.1 Total combined load rating of tires and wheels exceeds	Yes	YES
the gross vehicle weight rating (GVWR) of the unit		
6.2 Front and rear wheels do not track each other	Yes	YES
Quantity tires / wheels:	4	YES
Front tire size & ply rating	385/65R22.5	YES
	16 Ply rating	
	Highway Tread	
	11.00 x 20	
	Compactor	11770
Rear tire size & ply rating	385/65R22.5	YES
	16 Ply rating	
	Highway Tread	
	11.00 20	
	11.00 x 20	
	Compactor	
Stones hotsycon Front times	82"	VEC
Stance-between Front tires Stance-between Rear tires	93"	YES
Wheel Base	134"	YES
	20'	YES
Turning Radius- inside	10"	YES
Ground clearance		YES
Front Drive Axle capacity	26,000 Lbs.	YES
Front Non-Drive Axle Capacity  Rear Drive Axle capacity	34,000 Lbs.	YES
Rear Non-Drive Axle Capacity	54,000 Lbs.	IES
Real Non-Drive Axie Capacity	•	
7.0 BRAKES:		
7.0 DRAKES.		
7.0 Service brake system	Yes	YES
Front/ Rear type	1 05	1123
7.0 Secondary brake system	Yes	YES
7.0 Parking braking system	Yes	YES
7.0 I diking oldking system	103	1133
7.1 Air braking systems, shall have:	Yes	YES
moisture evaporators, & manual slack adjusters		
7.2 Secondary braking system shall stop unit if service	Yes	YES
brake fails because of engine failure or loss of air pressure	- 55	- 22
7.3 Parking brake shall hold unit stationary on any grade,	Yes	YES
while transmission is in neutral		
7.4 Brake system uses common components	Yes	YES
7.5 Brakes shielded from outside contaminants	Yes	YES
Your standard unit braking system:		
Front	Air over	YES
	hydraulic	
	Drum For	
	Drive Axle	
Rear	"S" Cam Air	YES
	Brakes / Drum	
Park Brake	Spring brake	YES
	1 6	I

	1:	
	disc on	
	transmission	
8.0 STEERING:	Hyd Orbital	
0.011 1 1'	37	VEC
8.0 Hydraulic	Yes	YES
8.0 Orbital	Yes	YES
8.0 Stations	Dual Station	YES
9.0 TRUCK (TOW)HITCH:		
0.0 D / G 161 1	37	MEG
9.0 Positive / Self-locking	Yes	YES
9.0 Hitch can be hooked & unhooking while unit is in	Yes	YES
motion		
10.0 AGGREGATE RECEIVING HOPPER		
10.1 M'	1062	VEC
10.1 Min. opening, not counting top edge return	106"	YES
10.1 Min. opening, (width for dump trucks to dump)	106"	YES
10.2 Min. stack capacity of aggregate	6.0cu. Yds.	YES
(cu. yds.)	8.5 Tons	TIEG
10.3 Adjustable feed control gate for each conveyor belt	Yes	YES
10.4 Rubber skirting at receiver end of hopper to control	Yes	YES
spillage		
11.0 CONVEYORS:		
11.1 m	T. 0411	TIEG
11.1 Two conveyors	Two 24"	YES
11.1 Conveyor with full length skirt & hooded adjustable	Yes	YES
deflectors to prevent spillage.		
11.2 Conveyors powered by hydraulic motors	Yes	YES
11.2 Conveyor speed FPM	0 to 800 FPM	YES
11.3 Controls direct material flow to right, front, or left of	Yes	YES
hopper		
11.4 Automatic conveyor controls: start/stop to control	Yes	YES
aggregate levels in spread hopper		
11.4 has system override	Yes	YES
11.5 Designed to allow convenient conveyor belt	Yes	YES
adjustment		
12.0 AGGREGATE SPREAD HOPPER:		
	77	TIEG
Automatic Gate Control	Yes – Air and	YES
	Hydraulic	
	Control	I I I I I I I I I I I I I I I I I I I
Fractional Gate Control	Yes	YES
Rate Control Range - One + Stone Thickness 3/8" Chip 20	Rate Computer	YES
#/ Sq. Yd.= FPM	controlled	1177.0
Rate Control Range - Stone Thickness Range:	3/8" to 1"+	YES
	Stone	1177.0
Rejection Screen Size	1 1/2 "	YES
Computerized Flow & Rate Control	Yes	YES
No. of Settings Computer can stored	20	YES
Are manual installation & removable of gates required on	Yes	YES
your unit		
Hopper, expandable 10 ft to 16 ft	Yes	YES
		1177.0
Individual Air Gate control for Spread Width	Yes	YES

13.0 SPREAD HOPPER REJECTION SCREEN:  13.0 Full-width rod type reject screen with min. 1 ½ in. opening  14.0 CONTROLS:  How many operators req. to operate this unit 14.3 Application Rate Control System Yes Manufacturer & Model No. of control system: No. of functions Controller maintains rate even with changes in travel speed Controller maintains rate even with changes in travel speed Controller maintains rate even with changes in spread width 14.3.1 Application rate computer shall monitor the actual speed of the chip spreader and automatically vary gate openings in order to maintain the set application rate, in Bbs/sq. vd., with accuracy to +/- two percent.  14.3.2 The application rate may be varied as desired during the operation of the unit.  15.0 BASIC DESIGN AND DIMENSIONS:  15.1 Min. wheelbase 15.4 Non-skid surface on all walkways and at operator's station. 15.5 Handrails around all walkways and at operator's station. 15.6 Safety steps with toe stops, or access ladders on each side. 15.7 Seat, cushioned, adjustable, with padded backrest, and seat belt meeting the current SEA J386 std. 15.8 Locking integral tool box.  16.0 LIGHTING: 17.1 Horn & back-up alarm per SAE J 994  17.1 Horn & back-up alarm per SAE J 994			
13.0 Full-width rod type reject screen with min. 1 ½ in. opening  14.0 CONTROLS: How many operators req. to operate this unit 14.3 Application Rate Control System Yes YES Manufacturer & Model No. of control system: Danfoss Plus 1 YES No. of functions 20 YES Controller maintains rate even with changes in travel speed Controller maintains rate even with changes in spread width Yes YES  Controller maintains rate even with changes in spread width Yes YES  Controller maintains rate even with changes in spread width Yes YES  Controller maintains rate even with changes in spread width Yes YES  14.3.1 Application rate computer shall monitor the actual speed of the chip spreader and automatically vary gate openings in order to maintain the set application rate, in Ibs./sq. yd., with accuracy to +/- two percent.  14.3.2 The application rate may be varied as desired during the operation of the unit.  15.0 BASIC DESIGN AND DIMENSIONS:  15.1 Min. wheelbase 13.4" YES 15.2 Min. inside turning radius. 21.5' YES 15.3 Heavy-gauge welded steel frame Yes YES 15.4 Non-skid surface on all walkways and at operator's station. 15.5 Handrails around all walkways Yes YES 15.6 Safety steps with toe stops, or access ladders on each side. 15.7 Seat, cushioned, adjustable, with padded backrest, and seat belt meeting the current SEA J386 std. 15.8 Locking integral tool box. Yes YES 16.0 LIGHTING:  16.1 Two white halogen sealed-beam headlights Yes YES 16.3 Two combined stop lights Yes YES 16.4 For womber flashing Yes YES 16.5 Electrical wiring insulated & enclosed Yes YES 17.0 SAFETY AND SPECIAL EQUIPMENT  17.1 Horn & back-up alarm per SAE J 994	13.0 SPREAD HOPPER REJECTION SCREEN:		
14.0 CONTROLS:			
14.0 CONTROLS:	13.0 Full-width rod type reject screen with min. 1 ½ in.	Yes	YES
How many operators req. to operate this unit   Two   YES     14.3 Application Rate Control System   Yes   YES     Manufacturer & Model No. of control system:   Danfoss Plus 1   YES     Manufacturer maintains rate even with changes in travel speed   YeS   YES     Controller maintains rate even with changes in spread width   Yes   YES     Controller maintains rate even with changes in spread width   Yes   YES     Controller maintains rate even with changes in spread width   Yes   YES     Controller maintains rate even with changes in spread width   Yes   YES     14.3.1 Application rate computer shall monitor the actual   Yes   YES     14.3.2 Application rate computer shall monitor the actual   Yes   YES     14.3.3 Application rate computer shall monitor the actual   Yes   YES     14.3.4 Application rate computer shall monitor the actual   Yes   YES     14.3.5 Application rate omaintain the set application rate, in   Ibs./sq. yd., with accuracy to +/- two percent.     15.3 Fastic Design And Dimensions:   Yes   YES     15.4 BaSIC DESIGN AND DIMENSIONS:   Yes   YES     15.5 Min. inside turning radius.   21.5°   YES     15.4 Mon-skid surface on all walkways and at operator's   Yes   YES     15.5 Heavy-gauge welded steel frame   Yes   YES     15.6 Safety steps with toe stops, or access ladders on each   Yes   YES     15.6 Safety steps with toe stops, or access ladders on each   Yes   YES     15.7 Seat, cushioned, adjustable, with padded backrest, and   Yes   YES     15.8 Locking integral tool box.   Yes   YES     16.0 LIGHTING:   Yes   YES     16.1 Two white halogen sealed-beam headlights   Yes   YES     16.2 Two amber flashing   Yes   YES     16.3 Two combined stop lights   Yes   YES     16.5 Electrical wiring insulated & enclosed   Yes   YES     17.1 Horn & back-up alarm per   Yes   YES     17.1 Horn & back-up alarm per   Yes   YES     17.1 Horn & back-up alarm per   Yes   YES   YES     18.2 Heavy-gauge   Yes   YE	7		
How many operators req. to operate this unit   Yes   YES     14.3 Application Rate Control System   Yes   YES     Manufacturer & Model No. of control system:   Danfoss Plus 1   YES     No. of functions   20   YES     Controller maintains rate even with changes in travel speed   Yes   YES     Controller maintains rate even with changes in spread width   Yes   YES     The speed of the chip spreader and automatically vary gate openings in order to maintain the set application rate, in     Ibs./sq. yd., with accuracy to +/- two percent.     14.3.1 The application rate may be varied as desired during the operation of the unit.     15.0 BASIC DESIGN AND DIMENSIONS:   Yes   YES     15.1 Min. wheelbase   134"   YES     15.2 Min. inside turning radius.   21.5°   YES     15.3 Heavy-gauge welded steel frame   Yes   YES     15.4 Non-skid surface on all walkways and at operator's   Yes   YES     15.6 Safety steps with toe stops, or access ladders on each side.   Yes   YES     15.7 Seat, cushioned, adjustable, with padded backrest, and seat belt meeting the current SEA J386 std.     15.8 Locking integral tool box.   Yes   YES     16.0 LIGHTING:   Yes   YES     16.1 Two white halogen sealed-beam headlights   Yes   YES     16.2 Two amber flashing   Yes   YES     16.5 Electrical wiring insulated & enclosed   Yes   YES     17.0 SAFETY AND SPECIAL EQUIPMENT   Yes   YES     17.1 Horn & back-up alarm per   Yes   YES     17.1 Horn & back-up alarm per   Yes   YES     17.1 Horn & back-up alarm per   Yes   YES   YES     18.1 Min. wheelbase   Yes   YES   YES   YES   YES     18.2 Locking integral tool box.   Yes   YES   YES     18.3 Locking insulated & enclosed   Yes   YES   YES     18.4 Locking insulated & enclosed   Yes   YES   YES     18.5 Locking insulated & enclosed   Yes   YES			
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15.2 Min. inside turning radius.  15.3 Heavy-gauge welded steel frame  15.4 Non-skid surface on all walkways and at operator's yes yes station.  15.5 Handrails around all walkways  15.6 Safety steps with toe stops, or access ladders on each yes yes yes side.  15.7 Seat, cushioned, adjustable, with padded backrest, and seat belt meeting the current SEA J386 std.  15.8 Locking integral tool box.  16.0 LIGHTING:  16.1 Two white halogen sealed-beam headlights yes yes yes 16.2 Two amber flashing yes yes yes 16.3 Two combined stop lights Yes yes yes 16.5 Electrical wiring insulated & enclosed yes yes yes 17.0 SAFETY AND SPECIAL EQUIPMENT  17.1 Horn & back-up alarm per yes			
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15.4 Non-skid surface on all walkways and at operator's station.  15.5 Handrails around all walkways  15.6 Safety steps with toe stops, or access ladders on each side.  15.7 Seat, cushioned, adjustable, with padded backrest, and seat belt meeting the current SEA J386 std.  15.8 Locking integral tool box.  Yes  YES  16.0 LIGHTING:  16.1 Two white halogen sealed-beam headlights  Yes  YES  16.2 Two amber flashing  Yes  YES  16.3 Two combined stop lights  Yes  YES  16.5 Electrical wiring insulated & enclosed  Yes  YES  17.0 SAFETY AND SPECIAL EQUIPMENT  17.1 Horn & back-up alarm per SAE J 994			
station.  15.5 Handrails around all walkways  15.6 Safety steps with toe stops, or access ladders on each side.  15.7 Seat, cushioned, adjustable, with padded backrest, and seat belt meeting the current SEA J386 std.  15.8 Locking integral tool box.  Yes  YES  16.0 LIGHTING:  16.1 Two white halogen sealed-beam headlights  Yes  YES  16.2 Two amber flashing  Yes  YES  16.5 Electrical wiring insulated & enclosed  Yes  YES  17.0 SAFETY AND SPECIAL EQUIPMENT  17.1 Horn & back-up alarm per SAE J 994			
15.5 Handrails around all walkways  15.6 Safety steps with toe stops, or access ladders on each side.  15.7 Seat, cushioned, adjustable, with padded backrest, and seat belt meeting the current SEA J386 std.  15.8 Locking integral tool box.  16.0 LIGHTING:  16.1 Two white halogen sealed-beam headlights  16.2 Two amber flashing  16.3 Two combined stop lights  16.5 Electrical wiring insulated & enclosed  17.0 SAFETY AND SPECIAL EQUIPMENT  17.1 Horn & back-up alarm per SAE J 994  YES  YES  YES  YES  YES  YES  YES  YE		Yes	YES
15.6 Safety steps with toe stops, or access ladders on each side.  15.7 Seat, cushioned, adjustable, with padded backrest, and seat belt meeting the current SEA J386 std.  15.8 Locking integral tool box.  16.0 LIGHTING:  16.1 Two white halogen sealed-beam headlights 16.2 Two amber flashing 16.3 Two combined stop lights 16.5 Electrical wiring insulated & enclosed  17.0 SAFETY AND SPECIAL EQUIPMENT  17.1 Horn & back-up alarm per SAE J 994  YES  YES  YES  YES  YES  YES  YES  YE		¥7	AMEG
side.  15.7 Seat, cushioned, adjustable, with padded backrest, and seat belt meeting the current SEA J386 std.  15.8 Locking integral tool box.  Yes  YES  16.0 LIGHTING:  16.1 Two white halogen sealed-beam headlights  Yes  YES  16.2 Two amber flashing  Yes  YES  16.3 Two combined stop lights  Yes  YES  16.5 Electrical wiring insulated & enclosed  Yes  YES  17.0 SAFETY AND SPECIAL EQUIPMENT  17.1 Horn & back-up alarm per  SAE J 994			
15.7 Seat, cushioned, adjustable, with padded backrest, and seat belt meeting the current SEA J386 std.  15.8 Locking integral tool box.  16.0 LIGHTING:  16.1 Two white halogen sealed-beam headlights 16.2 Two amber flashing 16.3 Two combined stop lights 16.5 Electrical wiring insulated & enclosed  17.0 SAFETY AND SPECIAL EQUIPMENT  17.1 Horn & back-up alarm per SAE J 994  YES  YES  YES  YES  YES  YES  YES  YE	, .	Yes	YES
seat belt meeting the current SEA J386 std.  15.8 Locking integral tool box.  Yes  YES  16.0 LIGHTING:  16.1 Two white halogen sealed-beam headlights Yes  YES  16.2 Two amber flashing Yes  YES  16.3 Two combined stop lights Yes  YES  16.5 Electrical wiring insulated & enclosed  Yes  YES  17.0 SAFETY AND SPECIAL EQUIPMENT  17.1 Horn & back-up alarm per SAE J 994  YES  YES		Vac	VEC
16.0 LIGHTING:  16.1 Two white halogen sealed-beam headlights 16.2 Two amber flashing 16.3 Two combined stop lights 16.5 Electrical wiring insulated & enclosed  17.0 SAFETY AND SPECIAL EQUIPMENT  17.1 Horn & back-up alarm per SAE J 994  YES  YES  YES  YES  YES  YES  YES		res	IES
16.0 LIGHTING:  16.1 Two white halogen sealed-beam headlights 16.2 Two amber flashing Yes YES 16.3 Two combined stop lights Yes YES 16.5 Electrical wiring insulated & enclosed Yes YES  17.0 SAFETY AND SPECIAL EQUIPMENT  17.1 Horn & back-up alarm per SAE J 994  Yes YES		Vec	VES
16.1 Two white halogen sealed-beam headlights 16.2 Two amber flashing Yes YES 16.3 Two combined stop lights Yes YES 16.5 Electrical wiring insulated & enclosed Yes YES 17.0 SAFETY AND SPECIAL EQUIPMENT  17.1 Horn & back-up alarm per SAE J 994 YES YES	13.8 Locking integral tool box.	168	ILS
16.1 Two white halogen sealed-beam headlights 16.2 Two amber flashing Yes YES 16.3 Two combined stop lights Yes YES 16.5 Electrical wiring insulated & enclosed Yes YES 17.0 SAFETY AND SPECIAL EQUIPMENT  17.1 Horn & back-up alarm per SAE J 994 YES YES	16 0 LICHTING		
16.2 Two amber flashing Yes YES 16.3 Two combined stop lights Yes YES 16.5 Electrical wiring insulated & enclosed Yes YES  17.0 SAFETY AND SPECIAL EQUIPMENT  17.1 Horn & back-up alarm per SAE J 994 YES	10.0 LIGHTING.		
16.2 Two amber flashing Yes YES 16.3 Two combined stop lights Yes YES 16.5 Electrical wiring insulated & enclosed Yes YES  17.0 SAFETY AND SPECIAL EQUIPMENT  17.1 Horn & back-up alarm per SAE J 994 YES	16.1 Two white halogen sealed beam headlights	Vec	VES
16.3 Two combined stop lights 16.5 Electrical wiring insulated & enclosed Yes YES  17.0 SAFETY AND SPECIAL EQUIPMENT  17.1 Horn & back-up alarm per SAE J 994 YES YES			
16.5 Electrical wiring insulated & enclosed Yes YES  17.0 SAFETY AND SPECIAL EQUIPMENT  17.1 Horn & back-up alarm per Yes YES SAE J 994			
17.0 SAFETY AND SPECIAL EQUIPMENT  17.1 Horn & back-up alarm per SAE J 994  Yes YES	1 8		_
17.1 Horn & back-up alarm per Yes YES SAE J 994	10.5 Electrical wiring insulated & chelosed	103	TLS
17.1 Horn & back-up alarm per Yes YES SAE J 994	17.0 SAFETY AND SPECIAL EQUIPMENT		
SAE J 994	THE STREET THE STREET BY SHIPTING		
SAE J 994	17.1 Horn & back-up alarm per	Yes	YES
17.4 Slow moving emblem Yes YES		Yes	YES
17.5 Fire extinguisher, min. 3-A: 40B:C  Yes  YES			
3 ,	9 )		
Unit weight information:	Unit weight information:		
	, and the second		
Shipping Weight (lbs.) 23500 YES	Shipping Weight (lbs.)	23500	YES

Operating Weight w/ full tanks (lbs.)***	24,500	YES
*** Wt. not counting rock.		
Frame thickness	6 x 3 x 3/16 rectangular tube	YES
		YES
Light Package: to include Headlights Stop and Tail lights, Turn Signals w/ Flashers	Yes	YES
Front Fenders	Yes	YES
Engine Warming System: to include, High Coolant Temp., High Hyd. Oil temp., low engine oil & low fuel.	Yes	YES
Strobe Light	Yes	YES
Four Wheel Drive	Yes	YES
18.0 Axles		
Front Axle	Rockwell drive steer with hydraulic brakes	YES
Rated	26,000 pounds	YES
Ratio		
Rear Axle	Rockwell Rigid with S cam Brake	YES
Rated	34,000 pounds	YES
Differential	Yes	YES
Ratio	19.0	YES