

Sweep System - Components

Basic Specifications

Approximate weights:			
One side broom	21,000 lbs.	(9545 kgs)	
Two side brooms	21,300 lbs.	(9682 kgs)	
Rear Overhang	7' 10"	(2388mm)	
Cab	108"	(2743)	
Sweeper Length	12' 10"	(3912mm)	
Width outside side broom drive (retracted)	8' 0"	(2483 mm)	
Sweeping paths:			
One side broom	8' 5"	(2591 mm)	
Two side brooms	10' 0"	(3048 mm)	
Two side brooms	12' 0"	(3658 mm)	
Axle capacities:			
Front	10,000 lbs.	(4545 kgs)	
Rear	23,000 lbs.	(10,454 kgs)	
Height	9' 10"	(2743)	
Total GVWR	33,000 lbs.	(15,000 kgs)	

Side Broom

Type 4 or 5 segment plastic, disposable
 Diameter 44" (1188 mm)
 Wearing edge Steel disc (to take curb contact wear)
 Speed Constant forward
 Flexibility Free-floating and full sideways oscillation
 Full hydraulic
 Adjustment for tilt, pressure and wear
 Pneumatic control
 Broom material 26" wire (660 mm)

Main Broom

Diameter 34 1/2" (876 mm)
 Length 58" (1473 mm)
 Replaceable, polypropylene broom material 26" (660 mm)
 Control Hydraulic lift
 Drive Hydraulic motor with chain and sprocket
 Mounting Full-floating
 Speed Constant
 Bearings Self-aligning

Dirt Conveyor

Type Squeegee with replaceable rubber edging
 Material (elevator bottom) Bolt-in 2 piece abrasion resistant steel plates
 Speed Constant, forward and reverse
 Flexibility Lift independent (for large object passage)
 Drive (forward and reverse) Hydraulic motor
 Adjustment Hydraulic chain adjustment
 lift control Hydraulic (independent of rear broom)
 Bearings Self-aligning
 Elevator chain, constant radius chain and sprocket
 Steel chain on urethane sprockets
 Elevator jam warning device (optional) Panel-mounted

Dirt Hopper

Capacity, volumetric 4.5 yd³ (3.4 m³)
 Material volume 3.3 yd³ (2.5 m³)
 Hopper and dump controls Electrohydraulic in cab
 Maximum dump height 10' (3048 mm)
 Minimum dump height 38" (965 mm)
 Body to discharge door at dumping height 2' 3" (686 mm)
 Maximum hopper dump angle 50 degrees
 cycle 70 seconds
 mechanism Two stage scissors with hydraulic cylinders
 -gn lift capacity 11,000 lbs. (5000 kgs)

Constant Pressure Water System

Capacity of tank 350 gallons (1325 L)
 Water fill hose 15' 0" (4572 mm) with 2.5" (64 mm) NST hydrant coupling
 Pump Electric centrifugal type
 Spray nozzles Across front bumper and over each gutter broom
 Controls Independent valves
 Filter Plastic housing - fine mesh screen
 Water tank Corrosion resistant with manhole cover

Engine

Make in Freightliner CAT® C7
 Type 6 cylinder
 Horsepower 230 @ 2200 RPM
 Torque 660 lb. ft. (898 Nm)
 Engine accessories Engine mounted lube-oil cooler, centrifugal water pump, spin-on fuel filter, spin-on oil filter, oil fill and level

Fuel Tank

Capacity 45 U.S. gallons (170 L)

Power Train

Allison model RDS 3500 with push button range selection with automatic shifting in 5 forward speeds.
 Rear axle 2-speed
 Vehicle governed speed 58 mph (95 kph)

Vehicle Hydraulic System

Pump Variable displacement piston type with controlled flow for all rotation and lift functions, load sensing hydraulics

Steering

Power assisted recirculating ball gearbox with direct coupled manual steering capacity.

Wheels

Front 10 stud, hub piloted steel disc, 22.5"/8.25" rims
 Rear 10 stud, hub piloted steel disc, 22.5"/8.25" rims
 Type 10 hole heavy-duty disc

Brakes

Service 4 wheel air
 Front with 16" chambers (406 mm)
 Rear with 30" chambers (762 mm)
 Type Drum and shoe
 Parking Spring applied rear wheel - Drum and Shoe

Electrical System

Twelve volt negative ground system with 160 amp alternator.
 Battery: 2- Group 31, 1900 ccA. All circuits protected activated by ignition switched constant duty solenoid (except lights).

Cab

AJ aluminum; intermittent electric windshield wipers; windshield washer, fresh air heater and defroster; individual seats with seat belts; two rear view mirrors mounted on doors; sun visors; all sweeper controls in cab on center console. Dual gutter broom models have dual steering wheels, throttle pedals, brake pedals, turn indicator lights. Tinted safety glass throughout. And an Arm rest.

Seats

Drivers l/h Hi-back air suspension
 Drivers r/h Hi-back air suspension

Instrumentation

Fuel gauge, coolant temperature gauge, oil pressure gauge, voltmeter, speedometer/odometer, tachometer, transmission temperature, and hour meter.

Hood and Fenders

Unitized, corrosion resistant, molded and reinforced fiberglass and forward tilting.

Paint, Sweeper Body

99 RAL Colors Powder coat finish

Miscellaneous

Combination operator and maintenance manual and parts book

Options

Spray bar in front of main broom
 Elevator jam warning device
 Hydrant wrench
 PM-IO Compliant

Warranties

Chassis OEM supplied
 Engine OEM supplied
 Transmission OEM supplied
 Rear axle OEM supplied
 Sweeper 1 year parts and labor

Extended warranty for sweeper components available.
 Contact factory for details. Consult your local Elgin dealer for details on all OEM supplied warranties. Specifications are subject to change without notice and without responsibility to units previously sold.

The ESe warranty shall not apply to major components or trade accessories such as, but not limited to, trucks, engines, hydraulic pumps and motors, tires and batteries that have a separate warranty by the original manufacturer.

Your local Elgin Dealer is:



1300 W. Bartlett Road
 Elgin, Illinois, U.S.A. 60120-7529
 (847) 741-5370 Phone
 (847) 741-3035 Fax
 www.elginsweeper.com

Photo illustrations in this brochure include optional components. Specifications subject to change without notice.
 Elgin® and Whirlwind® are registered trademarks of Elgin Sweeper Company. Effective 7/06. Printed in U.S.A. ©2006 Federal Signal Corporation. Federal Signal Corporation is listed on the NTSF by the symbol FSS.



Tough on debris. Easy on the operator.

When contractors and municipalities need a durable sweeper that's easy and comfortable to operate, the Elgin Broom Bear is the sweeper of choice. Its heavy, duty construction debris to light street sweeper. It's rugged and easy to operate. It's the industry.

Equipped with a Caterpillar C7 230 hp engine in a compact design, it's not short on muscle. But it's the length of its broom that is its intelligent design. With a powerful collection of features and innovations, Broom Bear gives operators the flexibility to take on virtually any application with ease.

Armed with a larger hopper and increased wheelbase, Broom Bear increases the number of stops throughout the day. Plus, variable dump angle and 11 inches of side-shift capability, operators are able to enjoy more efficient dumping action.

A short wheelbase and large brooms make Broom Bear ideal for operating in tight cul-de-sacs. Its dual free-floating gutter brooms adjust to variable surfaces, and the fully floating main broom is designed to take on the toughest road-paving obstacles - even protruding manhole covers.

With its unsurpassed flexibility, innovative design and unmatched durability, the Elgin Broom Bear brings maximum efficiency and superior sweeping performance to a wide range of applications:

- Residential street maintenance
- Road construction cleanup
- Crosstown emergency cleanup
- City/highway maintenance
- General urban street sweeping
- Milling and chip-and-seal road construction
- State highway and tollway cleaning



PARTS

Common parts are located in the elevator lift system, side broom and main broom. Plus, with Elgin's extensive dealer network, off-the-shelf replacement parts are readily available for quick maintenance and maximum uptime.



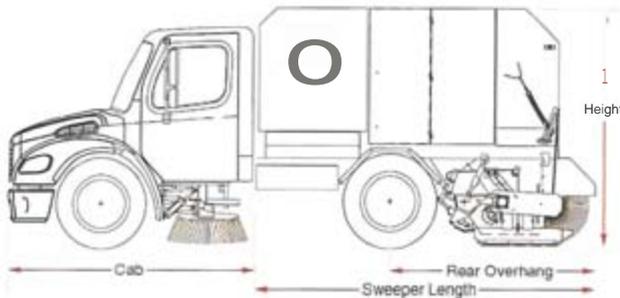
SERVICE

Service support is available through an extensive network of factory-trained dealers located throughout the world.



FLEETMINDER (optional)

Our exclusive Fleetminder management system incorporates fully automated GPS and mapping capabilities to monitor and record sweeping components. It provides accurate records of machine activity and improves fleet cost management and overall productivity.



Basic Specifications

Approximate Weights

- One side broom-21,000 lb (9,526 kg)
- Two side brooms-21,300 lb (9,662 kg)

Width Outside Side Broom Drive (Retracted)

- 8'0" (2,438 mm)

Sweeping Paths

- One side broom-8'5" (2,565 mm)
- Two side brooms-Standard Reach 10' (3,048 mm)
- Two side brooms-Extended Reach 12' (3,658 mm)

Axle Capacities

- Front-10,000 lb (4,536 kg)
- Rear-23,000 lb (10,433 kg)

Total GVWR

- 33,000 lb (14,969 kg)

Dimensions on Freightliner M2

- Turning Radius-19'0" (5,191 mm)
- Height-9'0" (2,743 mm)
- Width (w/o mirrors)-9'6" (2,348 mm)
- Sweeper Length-12'10" (3,912 mm)
- Rear Overhang-7'1" (2,388 mm)
- Cab Length-1'08" (2,143 mm)

Additional Options (partial list)

- Elevator Stall Alarm
- Rear Broom Spray Bar
- Elevator Flush-Out System
- Hopper Full Indicator
- Hopper Up Indicator
- Auto Lube System
- Dual Spray-Water Pump
- RH/LH Side Broom Tilt

Contact factory for additional options.

Value-Added Services

Elgin's commitment to the customer continues long after the sale.

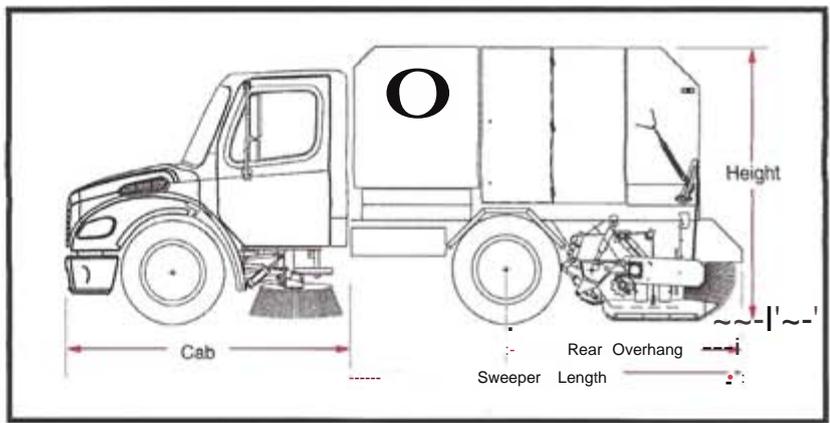
- On-Time Delivery
- Factory-Trained, Worldwide Dealer Network
- Genuine Performance-Matched Parts
- Elgin Training Center

Your local Elgin Dealer is:

Warranty

Elgin Sweeper Company backs the Broom Bear sweeper with a one-year, limited warranty. The Broom Bear is warranted against defects in material or workmanship for a period of 12 months from the date of delivery to the original purchaser. Optional extended warranty packages are available. Consult your Elgin dealer for complete warranty details.

Sweep System - Components



Basic Specifications

Approximate weights:

One side broom	21,000 lbs. (9545 kgs)
Two side brooms	21,300 lbs. (9682 kgs)
Rear Overhang	7' 10" (2388mm)
Cab	108" (2743)
Sweeper Length	12' 10" (3912mm)

Width outside side broom drive (retracted) 8'0" (2483 mm)

Sweeping paths:

One side broom	8' 5" (2591 mm)
Two side brooms	10' 0" (3048 mm)
Two side brooms	12' 0" (3658 mm)

Axle capacities:

Front	10,000 lbs. (4545 kgs)
Rear	23,000 lbs. (10,454 kgs)
Height	9'10" (2743)
Total GVWR	33,000 lbs. (15,000 kgs)

Side Broom

Type 4 or 5 segment plastic, disposable
 Diameter 44" (1188 mm)
 Wearing edge Steel disc (to take curb contact wear)
 Speed Constant forward
 Flexibility Free-floating and full sideways oscillation
 Full hydraulic adjustment for tilt, pressure and wear control Pneumatic
 Broom material 26" wire (660 mm)

Main Broom

Diameter 34 1/2" (876 mm)
 Length 58" (1473 mm)
 Replaceable, polypropylene broom material 26" (660 mm)
 Control Hydraulic lift
 Drive Hydraulic motor with chain and sprocket
 Mounting Full-floating
 Speed Constant
 Bearings Self-aligning

Dirt Conveyor

Type Squeegee with replaceable rubber edging
 Material (elevator bottom) Bolt-in 2 piece abrasion resistant steel plates
 Speed Constant, forward and reverse
 Flexibility Lift independent (for large object passage)
 Drive (forward and reverse) Hydraulic motor
 Adjustment Hydraulic chain adjustment
 lift control Hydraulic (independent of rear broom)
 Bearings Self-aligning
 Elevator chain, constant radius chain and sprocket
 Steel chain on urethane sprockets
 Elevator jam warning device (optional) Panel-mounted

Dirt Hopper

Capacity, volumetric 4.5 yd3 (3.4 m3)
 Material volume 3.3 yd3 (2.5 m3)
 Hopper and dump controls Electrohydraulic in cab
 Maximum dump height 10' (3048 mm)
 Minimum dump height 38" (965 mm)
 Body to discharge door at dumping height 2' 3" (686 mm)
 Maximum hopper dump angle 50 degrees
 Cycle 70 seconds
 Mechanism Two stage scissors with hydraulic cylinders
 Max lift capacity 11,000 lbs. (5000 kgs)

Constant Pressure Water System

Capacity of tank 350 gallons (1325 L)
 Water fill hose 15' 0" (4572 mm) with 2.5" (64 mm) NST hydrant coupling
 Pump Electric centrifugal type
 Spray nozzles Across front bumper and over each gutter broom
 Controls Independent valves
 Filter Plastic housing - fine mesh screen
 Water tank Corrosion resistant with manhole cover

Engine

Make in Freightliner CAT® C7
 Type 6 cylinder
 Horsepower 230 @ 2200 RPM
 Torque 660 lb. ft. (898 Nm)
 Engine accessories Engine mounted lube-oil cooler, centrifugal water pump, spin-on fuel filter, spin-on oil filter, oil fill and level

Fuel Tank

Capacity 45 U.S. gallons (170 L)

Power Train

Allison model RDS 3500 with push button range selection with automatic shifting in 5 forward speeds.
 Rear axle 2-speed
 Vehicle governed speed 58 mph (95 kph)

Vehicle Hydraulic System

Pump Variable displacement piston type with controlled flow for all rotation and lift functions, load sensing hydraulics

Steering

Power assisted recirculating ball gearbox with direct coupled manual steering capacity.

Wheels

Front 10 stud, hub piloted steel disc, 22.5"/8.25" rims
 Rear 10 stud, hub piloted steel disc, 22.5"/8.25" rims
 Type 10 hole heavy-duty disc

Brakes

Service 4 wheel air
 Front with 16" chambers (406 mm)
 Rear with 30" chambers (762 mm)
 Type Drum and shoe
 Parking Spring applied rear wheel - Drum and Shoe

Electrical System

Twelve volt negative ground system with 160 amp alternator.
 Battery: 2- Group 31, 1900 CCA. All circuits protected activated by ignition switched constant duty solenoid (except lights).

Cab

AJ aluminum; intermittent electric windshield wipers; windshield washer, fresh air heater and defroster; individual seats with seat belts; two rear view mirrors mounted on doors; sun visors; all sweeper controls in cab on center console. Dual gutter broom models have dual steering wheels, throttle pedals, brake pedals, turn indicator lights. Tinted safety glass throughout. And an Arm rest.

Seats

Drivers l/h Hi-back air suspension
 Drivers r/h Hi-back air suspension

Instrumentation

Fuel gauge, coolant temperature gauge, oil pressure gauge, voltmeter, speedometer/odometer, tachometer, transmission temperature, and hour meter.

Hood and Fenders

Unitized, corrosion resistant, molded and reinforced fiberglass and forward tilting.

Paint, Sweeper Body

99 RAL Colors Powder coat finish

Miscellaneous

Combination operator and maintenance manual and parts book

Options

Spray bar in front of main broom
 Elevator jam warning device
 Hydrant wrench
 PM-IO Compliant

Warranties

Chassis OEM supplied
 Engine OEM supplied
 Transmission OEM supplied
 Rear axle OEM supplied
 Sweeper 1 year parts and labor

Extended warranty for sweeper components available.
 Contact factory for details. Consult your local Elgin dealer for details on all OEM supplied warranties. Specifications are subject to change without notice and without responsibility to units previously sold.

The ESe warranty shall not apply to major components or trade accessories such as, but not limited to, trucks, engines, hydraulic pumps and motors, tires and batteries that have a separate warranty by the original manufacturer.

Your local Elgin Dealer is:



Photo illustrations in this brochure include optional components. Specifications subject to change without notice.
 Elgin® and Whirlwind® are registered trademarks of Elgin Sweeper Company. Effective 7/06. Printed in U.S.A. ©2006 Federal Signal Corporation. Federal Signal Corporation is listed on the NTSF by the symbol FSS.



1300 W. Bartlett Road
 Elgin, Illinois, U.S.A. 60120-7529
 (847) 741-5370 Phone
 (847) 741-3035 Fax
 www.elginsweeper.com

BroomBear
Price Summary

Part Number	Description	Quantity	
1065554	Brooms/Conveyor Rev Raise H	1	
1075400	AMIFM Radio CD M2 1+ H	1	
1080977	12" Convex Mirrors HMV	1	
1081200	Broom Bear Dual	1	
1081348	Air Dryer AD-9 H	1	
1082648	Fire Ext. 5 lbs. H	1	
1084439	Mounting M2 H	1	
9999506	Freight to Florida	1	
4810001	Paint Sweeper Elgin, std white	1	
4820001	Cab to Remain, Std White	1	
5711364	Beacon Protector Rear H	1	
5711509	SB Tilt Right H	1	
5713093	Beacon Light + WireMnt. Rear H	1	
5713243	Conveyor Stall Alarm H	1	
5713423	MB Spray Bar H	1	
5713669	Conveyor Flush Out H	1	
5713695	Hopper Full Indicator H	1	
5713851	SB Tilt Left H	1	
5714322	Dual Spray Water Pumps H	1	
702128	H Service Manual	1	
9306848	3 Triangle Reflectors	1	
9999506	FL LA TX, NM, CO, WY, MT	1	
Sweeper Price		1	\$117.038.00

Available Options for the Broom Bear Dual

Part Number	Description	Price
9999913	Paint Four-wheel Body NON-RAL Color	\$ 3,450.00
1081365	InCab Filter Restriction Indicator lite	\$ 505.00
9999916	Paint Cab RAL Color	\$2,250.00
1064732	Heated Fuel Water Sep IU+	\$ 1,200.00
1072752	ECCO 950 Smart Alarm H	\$ 215.00
5713243	Conveyor Stall Alarm H	\$ 595.00
1072751	ECCO 940 Smart Alarm H	\$ 215.00
1065032	AutoLube Swpr H	\$ 3,660.00
1065033	AutoLube FL70/Swpr H	\$ 4,645.00
1071134	Autolube Vogel H	\$ 9,950.00
5713882	Strip MB(Tuft) H	\$ 0.00
1035621	Alum.SB Segments F H	\$ 120.00
1081364	Heated Remote Ctrld Mirrors H M2	\$ 815.00
1085205	Freightliner M2 H *****	\$ 63,424.00
5713940	Dash Mounted Fan H	\$ 120.00
1081348	Air Dryer AD-9 H	\$ 650.00
1080977	12" Convex Mirrors HMV	\$ 185.00
1081188	Spare FL Chassis Key HM2	\$15.00
1084626	Dash Mounted 12 Volt Fan H	\$ 180.00
1075400	AMIFM Radio CD M2 J+ H	\$ 690.00
1080756	Fender Mounted Mirrors LH	\$ 425.00
108195 6	Daytime Running Lights M2	\$ 510.00
5711865	Leaf Curtain H	\$ 1,015.00
5711544	1 piece Elevator Drape H	\$ 50.00
1075775	IID Elevator FlrDust Cover - H	\$ 2,605.00
5711545	3 piece Elevator Drape H	\$ 115.00
57~	Conveyor Flush Out H	\$ 705.00
5713308	Black Chevron Stripes H	\$ 80.00
1083385	Master Battery Disconnect Switch H	\$250.00
1082277	Fleetminder H w/o front strobe	\$ 1,860.00
5713904	Rear Flood Light H	\$ 145.00
1079373	Front Spray Bar PM10 H	\$ 580.00
5713695	Hopper Full Indicator H	\$ 365.00
5714711	Hopper Up Indicator H	\$ 280.00
1072120	Sweep Resume H	\$ 180.00

1081958	MB Odometer H	\$ 335.00
5713461	Main Broom Hour Meter H	\$ 305.00
1072883	Stainless Steel Hopper H	\$ 8,330.00
1086564	Hyd Pump Shut-OffH	\$ 125.00
702128	H Service Manual	\$ 225.00
704006	Freightliner M2 Operators Manual	\$ 25.00
704007	Freightliner M2 Service Manual	\$ 265.00
704005	Freightliner M2 Parts Book	\$ 340.00
701490	Add'l H Operator Manual	\$ 15.00
702223	Add'l H Parts Book H1000+	\$20.00
1085083	LifeLiner Hopper System w/Warranty H	\$ 3,220.00
5713093	Beacon Light + Wire/Mnt Rear H	\$ 345.00
1063747	Arrowstick 3' 6" H	\$ 1,080.00
5713785	Beacon Protector Frnt H	\$ 125.00
5713936	Rear Broom Spotlight LH H	\$ 55.00
5713419	Strobe Light + Wire/Mnt Rear H	\$ 525.00
5713802	(2) 7" Alternate Flashing Lights H	\$425.00
5711364	Beacon Protector Rear H	\$ 125.00
1065030	2 Strobes LIR Wire/Mnt Frt Hopper	\$495.00
5713783	Strobe Light + Wire/Mnt Frnt H	\$ 525.00
5713949	Arrowboard H	\$ 1,080.00
5713771	Beacon Light + Wire/Mnt Frnt H	\$ 345.00
5713784	Strobe Protector Front H	\$ 125.00
5713770	Strobe Protector Rear H	\$ 125.00
9999915	Wheel Color non/body	\$ 350.00
1063734	Paint FL70 Cab Color	\$ 2,250.00
1071626	Paint all Wheels	\$ 745.00
1067354	PMIO Compliant H	\$ 2,510.00
1082648	Fire Ext. 5 lbs. H	\$ 170.00
1083140	Fire Ext. 2.5 lbs. H	\$ 170.00
9306848	3 Triangle Reflectors	\$ 50.00
1082173	Camera, Rear & RH w/Monitor H	\$ 2,415.00
1079619	Camera Rear Vision H	\$ 1,930.00
5713787	Slow Moving Veh Emb H	\$ 55.00
5711509	SB Tilt Right H	\$ 480.00
5713851	SB Tilt Left H	\$480.00
5713944	Reversible SB Left	\$ 275.00
5713945	Reversible SB Right	\$ 275.00

1071117	Rear Broom Cover H	\$ 470.00
5713746	Carbide Dirt Shoes H	\$ 585.00
5714267	Conveyor Spd Cntrl H	\$ 605.00
5714268	SB RH Spd Cntrl H	\$ 605.00
1087157	Plastic MB Cover H	\$ 470.00
5714269	SB LH Spd Cntrl H	\$ 605.00
5713763	Rubber Dirt Shoes H	\$ 270.00
1065554	Brooms/Conveyor Rev Raise H	\$ 890.00
1081901	Spare Wheel&Tire FL & SC	\$ 735.00
5714242	Spare Wheel Frt or Rr (FL-70)	\$ 165.00
1036150	Hydrant Wrench ALL	\$ 60.00
5713931	H 2nd Yr Parts. & Labor *****	\$ 1,100.00
5714569	H 4th Yr Parts. & Labor *****	\$ 4,340.00
5713933	H 3rd Yr Parts. & Labor *****	\$ 3,052.00
5713932	H 2nd Yr Parts. *****	\$ 964.00
5714568	H 3rd Yr Parts. *****	\$ 1,832.00
5714571	H 5th Yr Parts. *****	\$ 3,280.00
5714570	H 4th Yr Parts. *****	\$ 2,600.00
5713934	H 5th Yr Parts. & Labor *****	\$ 5,464.00
1072466	25' Water Fill Hose H	\$ 130.00
5713423	MB Spray Bar H	\$260.00
5714322	Dual Spray Water Pumps H	\$ 715.00
5714122	Wire/Mnt Strobe Frt H	\$ 220.00
5714124	Wire/Mnt Beacon Frt H	\$220.00
5713954	Wire/Mnt Beacon Rear H	\$220.00
5714123	Wire/Mnt Strobe Rear H	\$220.00

***** Chassis and Warranty at cost no additional discount allowed.