

OPERATIONS & MAINTENANCE TRAINING



Component Identification and Functionality

HYDRAULIC SYSTEM

(See section 3 of Owner's Manual)

GENERAL KNOWLEDGE:

- Hydraulic Fluid AW 46
- System PSI 3500 psi

NOTES:			

ENGINE COMPARTMENT:

- Pump / Mount / Shield
- Belt / Pulley / Tensioner
- Compensator / Proportioning Valve
- Supply / Pressure / Case Drain Lines
- Resettable Circuit Breaker(Osprey)

MID CHASSIS - DRIVERSIDE

- Pressure Filter / Bypass Indicator
- Manifold (Detailed in Section 3 Owners Manual)
- Directional Valves / Relief Valves / Manual Overrides / Manifold Labels
- Curb Broom Hydraulic Circuit / Accumulator, Dump Valve / Motor / Check Valves
- Pickup Head Hydraulic Circuit / Cylinders / Check Valves
- Hopper Hydraulic Circuit / Cylinders / Check Valves
- Fan Circuit / Motor
- Fan Coupling / Bearings

NOTES:
REAR CHASSIS
Dump Cylinders and Counter Balance Valves
Lockout device installation point
NOTES:
MID CHASSIS – PASSENGER SIDE
Reservoir / Sight Gauge / Breather Filter / Return Filter Indicator
• Fluid Drain (1/2" socket)
Passenger Curb Broom Circuit (If Installed)
Resettable Circuit Breaker (Raptor)
Resettable elicate Preaker (Naptor)
NOTES:

SWEEPER SYSTEM / COMPONENT IDENTIFICATION

*some items listed are options

- HD Front Bumper
- LED Front Work Light
- LED Bumper Flashers / Center Strobe
- Controls Function and Adjustment (Section 4 Owners Manual)
- Curb Broom Adjustment (Section 5 Owners Manual)
- Work Lights
- 3" Handheld Air Blower
- Water System (nozzles / pump / strainer / drain)
- Drag Bars / Pickup Head / Skids / Springs
- Intake / Exhaust Tubes
- Fan / Coupling / Bearings
- Fire Extinguisher
- Hopper / Hopper Indicator Switch
- Hopper Drain
- Inspection Doors
- Rear Door
- Toolboxes / Lights / Light Controls
- Dump Door / Drop Prop
- Magnets

NOTES:

NOTES.		

CHASSIS

- Backup Camera
- Fuel Fill
- Spare Tire

NOTES:		

Basic Operation

Road Mode / Sweep Mode

Power Settings (Memory Function)
Work Lights
Beacons
Water System
Raising and lowering the pick-up head
Curb Broom(s)
Dumping the hopper
Retract All Function
NOTES:

Sweeping - Best Practices

Use mirrors – chains – cylinders to make sure head fully extended, completely on ground Normal Sweeping at 50 – 80 % power (light debris – dust, litter, dry leaves, etc)

Heavy Sweeping at 90 - 100 % power (wet leaves, dirt, gravel, rock)

Curb brooms ALWAYS use at 100% power setting

Do not back up with curb broom down

Eyes up when using curb brooms – avoid fixation

Use backup camera to view debris swept/missed

Max speed of 10 mph while sweeping head is in the down position

Sweep in right hand circles, towards the middle

Keep buildings, curb areas on the driver's side

To extend the life of the brooms, use them only against curb lines and buildings.

Sweeper Operations / Maintenance

BEST PRACTICES

(See section 5 of Owner's Manual)

Curb Broom Speed Adjustment (if needed)

Curb Broom Angle Adjustment (Manual)

Curb Broom Turnbuckle Adjustment (1 x Month)

Curb Broom – Replace at approx. 5"

Flaps / Head - Adjust at ¼" gap between ground, replace at 6" from top of head / bottom of rear flap

- 1. Skid Plate Adjustment
- 2. Skid Spacer Adjustment

Breather Filter "Sock"

NOTES:

Toolbox – HD Wire & Pliers, Ratchet Straps

Fluid changes – Syphon Pump (rather than drain)

DAILY INSPECTION AND ANNUAL MAINTENANCE SCHEDULE

Looking For		
Flats, punctures, abnormal wear patterns		
Proper adjustment and visibility		
Proper operation		
Belt, pump and mount aligned, no leaks		
Fluid is visible on reservoir sight gauge, fluid is clean		
No evidence of leaks		
Aligned properly and no damage		
Aligned properly and no damage		
No visible cracks, warping or damage		
Proper length of bristles, smooth operation		
No holes or tears, clamps properly secured		

NOTES:	
	NOTES:

Live Sweeper Training

ights and Safety
Power Settings
Priving Speed for Debris
Curb Broom Operation and Speed
rickup Head
Vater System
lopper Dump
weeping Patterns
NOTES:

Parts to Stock

NECESSITY

Pump Belt	Bearings
Brooms	Skids / Skid Plate / Bolts
Fan Coupling Insert	Flaps / Skid Spacers
Drag Bars / Bolts	Spare Head
Breather Filter	Hydraulic Filters (pressure and suction)
Exhaust/Intake Tubes	Fan / Curb Broom Motor
Hydraulic Fluid AW46	Hopper / Inspection Door / Dump Door Seals
NOTES:	

RECOMMENDED