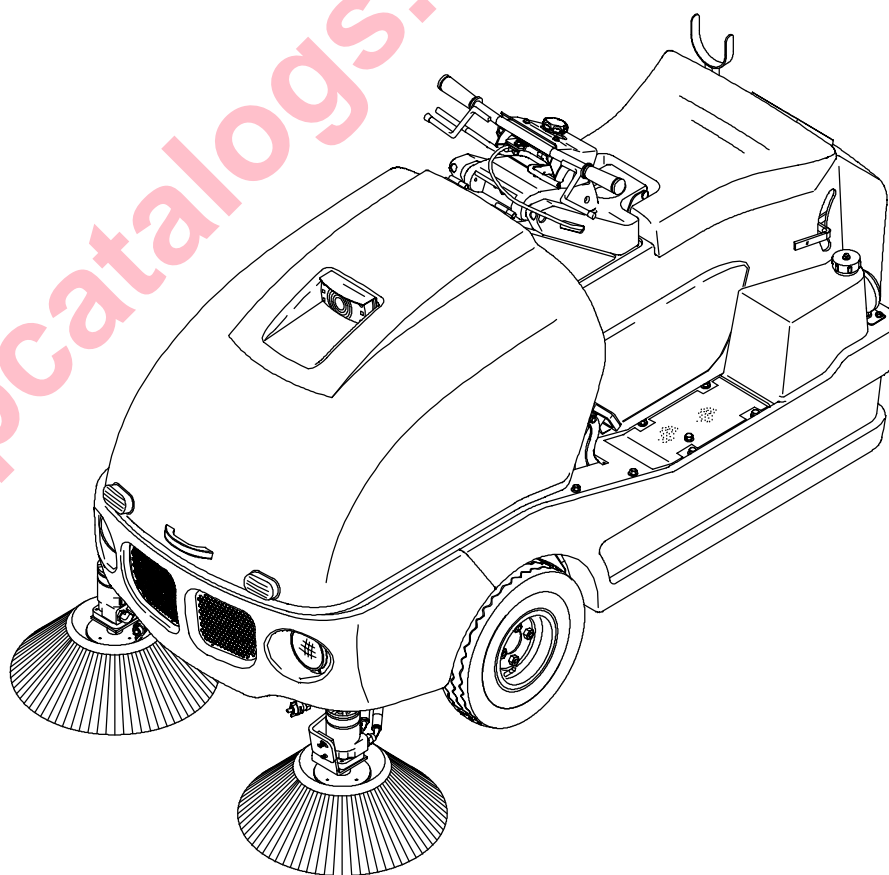




LITTER HAWK™

Service Manual



330455

Rev. 01 (12-02)





This service manual is intended to be used as an aid in the detailed service, repair, and troubleshooting of your TENNANT Litter Hawk.

The set is organized into six major groups: General Information, Chassis, Vacuuming, Electrical, Hydraulics, and Engine-D.

General Information: Safety precautions, machine specifications, machine maintenance chart, machine tieing, machine jacking, machine storing, machine pushing or towing, and hardware information.

Chassis: Tire/wheel replacement, brake adjustment and replacement, steering adjustment and replacement.

Vacuuming: Hopper repair/replacement, brush repair/replacement, skirt/seal repair/replacement, and sweeping troubleshooting.

Electrical: Battery maintenance and replacement, electrical schematics, and electrical troubleshooting.

Hydraulics: Valve replacement, motor replacement/repair, cylinder replacement/repair, pump replacement/repair, filter replacement, hydraulic schematic, and hydraulic troubleshooting.

Engine - D: Air filter replacement, oil changing, cooling system maintenance/repair, engine troubleshooting, engine removal, and engine repairs.

Manual Number - 330455

Revision: 01

Published: 12-02

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SAFETY PRECAUTIONS

The following symbols are used throughout this manual as indicated in their description:



WARNING: To warn of hazards or unsafe practices that could result in severe personal injury or death.

FOR SAFETY: To identify actions that must be followed for safe operation of equipment.

The machine is suited to sweep disposable debris. Do not use the machine other than described in this Operator Manual.

The following information signals potentially dangerous conditions to the operator or equipment:



WARNING: Machine emits toxic gases. Serious injury or death can result. Provide adequate ventilation.



WARNING: Moving fan blades. Keep away.



WARNING: Sharp objects in debris canister. Wear gloves.



WARNING: Heavy top cover. Do not remove without help.

FOR SAFETY:

1. Do not operate machine:
 - Unless trained and authorized.
 - Unless operation manual is read and understood.
 - In flammable or explosive areas unless designed for use in those areas.
 - In areas with possible falling objects unless equipped with overhead guard.
2. Before starting machine:
 - Make sure all safety devices are in place and operate properly.
 - Check brakes and steering for proper operation.
3. When starting machine:
 - Keep foot on brake and directional lever in neutral.

4. When using machine:
 - Use brakes to stop machine.
 - Go slowly on inclines and slippery surfaces.
 - Use care when reversing machine.
 - Do not carry riders on machine.
 - Always follow safety and traffic rules.
 - Report machine damage or faulty operation immediately.
5. Before leaving or servicing machine:
 - Stop on level surface.
 - Set parking brake.
 - Turn off machine and remove key.
6. When servicing machine:

Avoid moving parts. Do not wear loose jackets, shirts, or sleeves when working on machine.

 - Block machine tires before jacking up machine.
 - Jack up machine at designated locations only. Block machine up with jack stands.
 - Use hoist or jack that will support the weight of the machine.
 - Wear eye and ear protection if using pressurized air or water.
 - Disconnect battery connections before working on machine.
 - Avoid contact with battery acid.
 - Use cardboard to locate leaking hydraulic fluid under pressure.
 - Use Tennant supplied or equivalent replacement parts.
7. When loading/unloading machine onto/off truck or trailer:
 - Turn off machine.
 - Use truck or trailer that will support the weight of the machine.
 - Use winch. Do not drive the machine onto/off the truck or trailer unless the load height is 380 mm (15 in) or less from the ground.
 - Set parking brake after machine is loaded.
 - Block machine tires.
 - Tie machine down to truck or trailer.

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