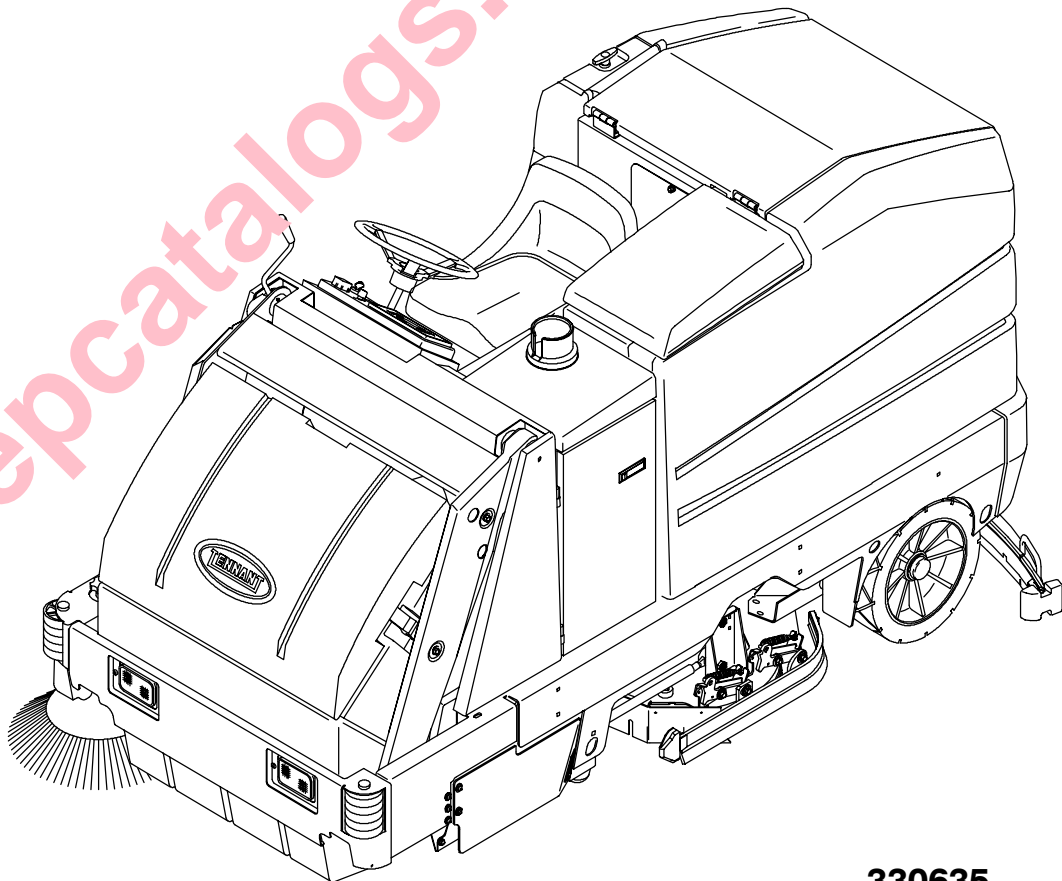




# 8300

Service Manual



330635

Rev. 02 (5-02)





This service manual is intended to be used as an aid in the detailed service, repair, and troubleshooting of your TENNANT Model 8300.

The set is organized into six major groups: General Information, Chassis, Sweeping, Scrubbing, Electrical, and Hydraulics.

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

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

**Sweeping:** Hopper adjustments, brush repair/replacement, skirt/seal repair/replacement, and sweeping troubleshooting.

**Scrubbing:** Scrub head repair/replacement, brush repair/replacement, skirt/seal repair/replacement, squeegee repair/replacement, solution and recovery tank repair/replacement, and scrubbing troubleshooting.

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

**Hydraulics:** Valve replacement, motor replacement, cylinder replacement, pump replacement, filter replacement, hydraulic schematics, and hydraulic troubleshooting.

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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 following information signals potentially dangerous conditions to the operator or equipment. Read this manual carefully. Know when these conditions can exist. Locate all safety devices on the machine. Then, take necessary steps to train machine operating personnel. Report machine damage or faulty operation immediately. Do not use the machine if it is not in proper operating condition.



**WARNING:** Batteries emit hydrogen gas. Explosion or fire can result. Keep sparks and open flame away. Keep covers open when charging.



**WARNING:** Flammable materials can cause an explosion or fire. Do not use flammable materials in tank(s).



**WARNING:** Flammable materials or reactive materials can cause explosion or fire. Do not pick up.



**WARNING:** Moving belt and fan. Keep away.



**WARNING:** Lift arm pinch point. Stay clear of hopper lift arms.



**WARNING:** Raised hopper may fall. Engage hopper support bar.

## 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 pedal in neutral.
4. When using machine:
  - Use brakes to stop machine.
  - Go slow on inclines and slippery surfaces.
  - Use care when backing machine.
  - Do not carry riders on machine.
  - Follow mixing and handling instructions on chemical containers.
  - 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 machine up.
  - Jack machine up 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 when using pressurized air or water.
  - Disconnect battery connections before working on machine.
  - Avoid contact with battery acid.
  - Use Tennant supplied or equivalent replacement parts.

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