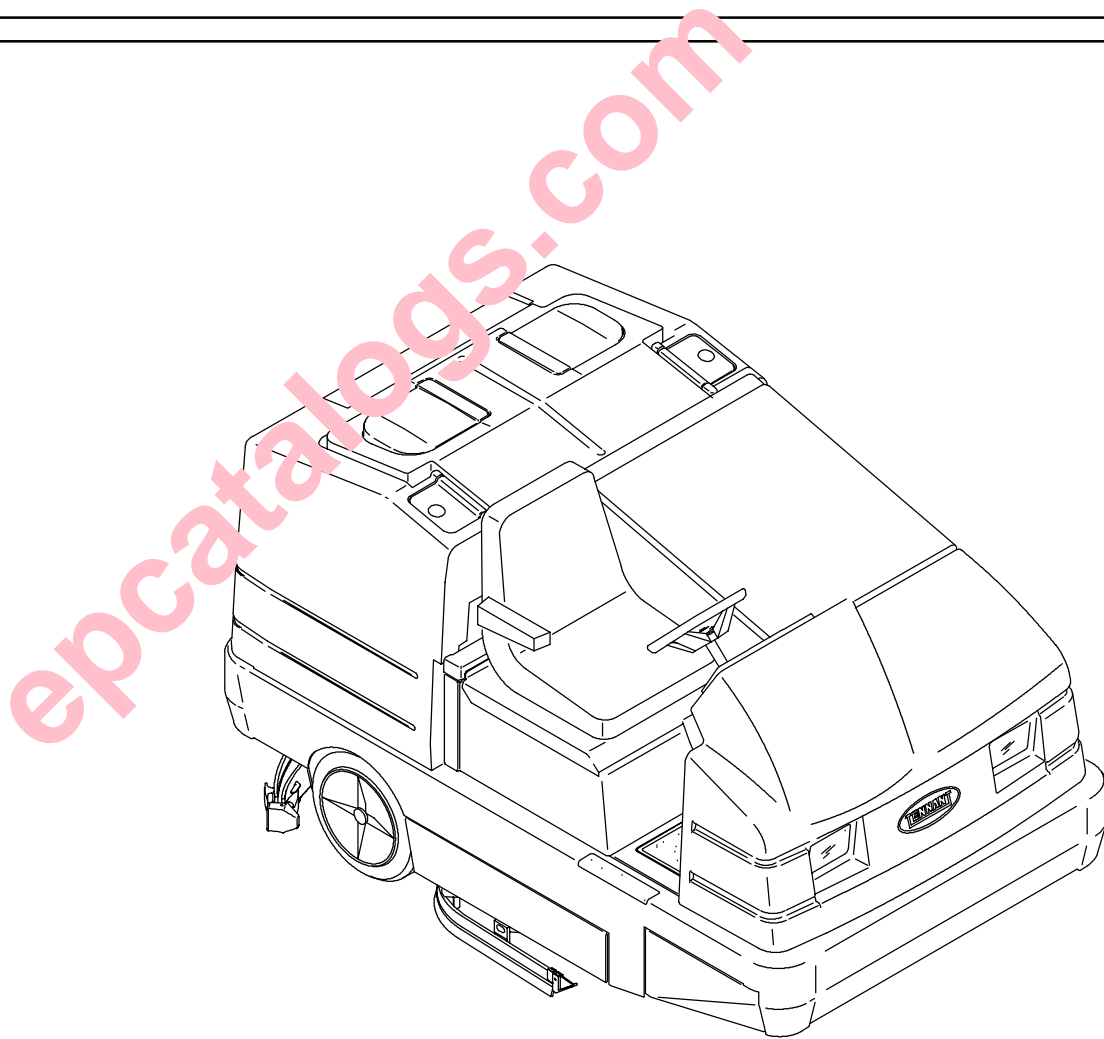




7400

Service Manual



MM428
Rev. 04 (3-02)



This service manual is intended to be an aid for the disassembly and reassembly of your TENNANT Model 7400.

This manual is organized into seven major groups: General Information, Chassis, Scrubbing, Electrical, Hydraulics, Engine-G/LPG and Engine-D.

General Information: Machine transport, machine jacking, machine storage, machine specifications, and machine maintenance chart.

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

Scrubbing: Scrubber head repair/replacement, brush repair, replacement, squeegee repair/replacement, and scrubber troubleshooting.

Electrical: Battery maintenance and replacement, instrument panel replacement, and electrical troubleshooting.

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

Engine - G/LPG: Air filter replacement, oil changing, cooling system maintenance/repair, fuel system maintenance/repair, governor adjustment/repair, engine repair, engine troubleshooting, and engine repairs.

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

Manual Number - MM428

Revision: 04

Published: 3-02



CALIFORNIA PROPOSITION 65 WARNING:

Engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Copyright © 1996, 1998, 2001, 2002 TENNANT, Printed in U.S.A.

CONTENTS

	Page
SAFETY PRECAUTIONS	1-3
SPECIFICATIONS	1-6
GENERAL MACHINE	
DIMENSIONS/CAPACITIES	1-6
GENERAL MACHINE PERFORMANCE	1-6
POWER TYPE	1-7
STEERING	1-7
HYDRAULIC SYSTEM	1-8
BRAKING SYSTEM	1-8
TIRES	1-8
MACHINE DIMENSIONS	1-9
MAINTENANCE	1-10
MAINTENANCE CHART / G/LP	1-10
MAINTENANCE CHART / DIESEL ..	1-12
PUSHING, TOWING, AND	
TRANSPORTING THE MACHINE ...	1-14
PUSHING OR TOWING	
THE MACHINE	1-14
TRANSPORTING THE MACHINE ...	1-15
MACHINE JACKING	1-17
STORING MACHINE	1-18
HARDWARE INFORMATION	1-19
STANDARD BOLT TORQUE CHART	1-19
METRIC BOLT TORQUE CHART ..	1-19
BOLT IDENTIFICATION	1-19
THREAD SEALANT AND LOCKING	
COMPOUNDS	1-19
HYDRAULIC FITTING INFORMATION	1-20
HYDRAULIC TAPERED PIPE FITTING (NPT)	
TORQUE CHART	1-20
HYDRAULIC TAPERED SEAT FITTING (JIC)	
TORQUE CHART	1-20
HYDRAULIC O-RING FITTING TORQUE	
CHART	1-20

epcatalogs.com

SAFETY PRECAUTIONS

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



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

FOR SAFETY: To identify actions which 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 machine is not designed for use on public roads.

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

FOR SAFETY:

1. **Do not operate machine:**
 - Unless trained and authorized.
 - Unless operator manual is read and understood.
 - If it is not in proper operating condition.
 - 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:**
 - Check for fuel, oil, and liquid leaks.
 - Keep sparks and open flame away from refueling area.
 - 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 reversing machine.
 - Do not carry passengers 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.
- Block machine tires before jacking machine up.
- Jack machine up at designated locations only. Block machine up with jack stands.
- Use hoist or jack of adequate capacity to lift machine.
- Wear eye and ear protection when using pressurized air or water.
- Disconnect battery connections before working on machine.
- Avoid contact with battery acid.
- Avoid contact with hot engine coolant.
- Allow engine to cool.
- Keep flames and sparks away from fuel system service area. Keep area well ventilated.
- Use cardboard to locate leaking hydraulic fluid under pressure.
- Use Tennant supplied or approved replacement parts.



WARNING: Engine emits toxic gases. Severe respiratory damage or asphyxiation can result. Provide adequate ventilation. Consult with your regulatory authorities for exposure limits. Keep engine properly tuned.



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



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



WARNING: Moving belt and fan. Keep away.



WARNING: Strong Vacuum. Keep Away From Fan Inlet When Fan Is Running.

[Buy now](#)

[Tennant 7400 Machine PDF Service Manual](#)

[With Instant Download](#)