

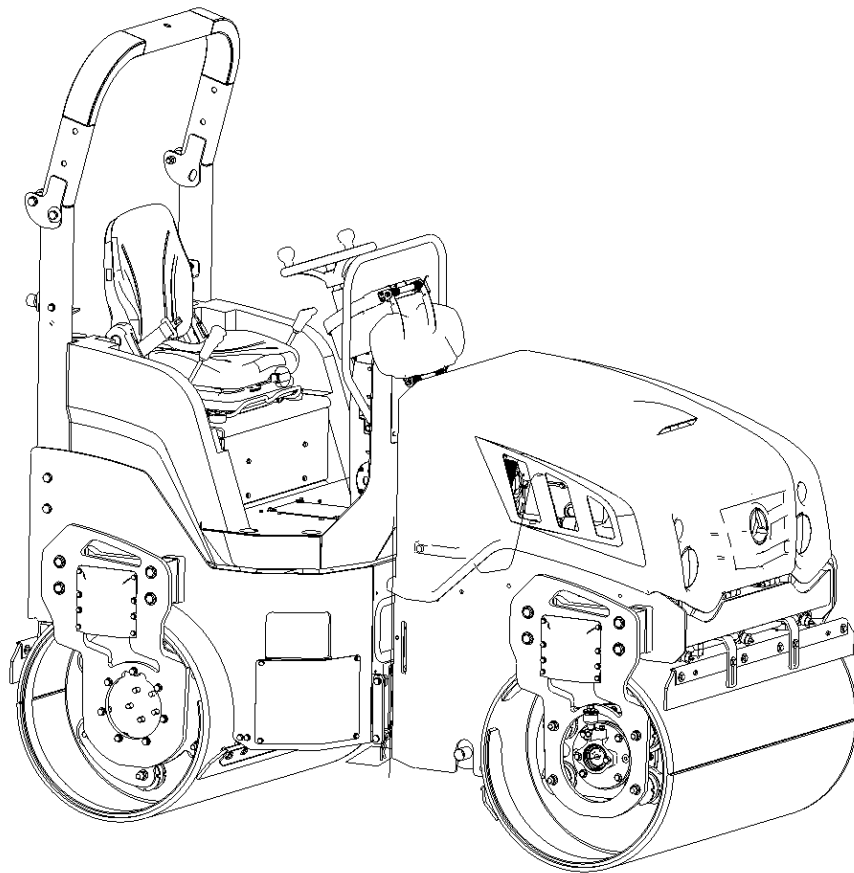


SANY

Quality Changes the World

Tandem Roller

STR30C-8



Safety, Operation & Maintenance Manual

SANY

STR30C-8 Tandem Roller

Safe, Operation and Maintenance Manual

 **WARNING**

Read and follow the safety precautions and instructions in this manual and on the machine decals. Failure to do can cause serious injury, death or property damage. Keep this manual with the machine for reading and future reference.

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WARNING

CALIFORNIA PROPOSITION 65 WARNING

Diesel engine exhaust and some of its constituents are known to the State of California to cause cancer, birth defects, and other reproductive harm.

WARNING

CALIFORNIA PROPOSITION 65 WARNING

The battery posts, terminals, and related accessories contains chemical lead and lead compounds, chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Wash hands after handling.

©2019 by SANY Group. All rights reserved. No part of this publication may be reproduced, used, distributed or disclosed except during normal operation of the machine as described herein. All information included within this publication was accurate at the time of publication. Product improvements, revisions, etc., may result in differences between your machine and what is presented here. SANY Group assumes no liability. For more information, contact SANY Group.

DELINEATION OF RESPONSIBILITY

SPECIFIC DECLARATION

Tandem roller is used to compact sand soil and sand gravel in the construction of roads and foundations, which are suitable for most types of road construction, airfields, dam construction and harbor projects. Any other use or any operation beyond the specified working range is not authorized use. Sany expressly bears no liability for any consequence due to any unauthorized use.

Information on this manual is used to guide qualified operators to operate and maintain rollers correctly. Sany expressly bears no liability for any consequence due to any use not observing the information on this manual.

It is forbidden to convert the roller without authorization. Sany expressly bears no liability for any consequence. When crack or electrical malfunction on the roller occurs, please contact the supplier, and don't conduct welding or make changes without permission, or else, for any consequence due to such contravention, Sany shall not bear any liability.

Use genuine spare parts from Sany. Sany expressly bears no liability for any machine damage or accident due to the use of untested or unauthorized spare parts or tools.

Operate and maintain parts (such as engine, a/c) on the roller, and observe related regulations on Users' guide supplied from their manufacturer.

Sany expressly bears no liability for any machine failure or damage due to force majeure of natural disasters (earthquake, typhoon) and wars.

Sany cannot predict every circumstance that might involve a potential hazard in operation or maintenance. Operators and owners should highly attach importance to safety. Local specific safety rules of the countries may be stricter. If they differ from the regulations on this manual, observe the stricter one.

Duty of Sany

- Be responsible for providing qualified products and correct documents
- Fulfill their promises on after-sales service, and document all maintenance and repair working done by after-sales service personnel.
- Train the operation and maintenance personnel based on their needs.

Duty of owners or other authorized personnel

- Only after each person involved in the product's operation, maintenance and repair is trained and fully understands the Parts Book and Operation and Maintenance Manual, can they operate and maintain the roller.
- Ensure the operation and maintenance personnel are qualified and know their related responsibilities.

- Periodically check related personnel's safety consciousness during working.
- If any fault which will lead to unsafety occurs, stop the roller immediately.
- If necessary Sany service personnel have the right to check the roller for safety.
- Besides check items regulated by Sany, observe local laws and regulations to check the roller.
- Ensure timely maintenance and repair on the roller.
- Carefully plan the use of the roller.

Duty of all working personnel

- If there is any abnormal symptom which may cause abnormal working of the roller or potential hazard, report to your leader. If possible, correct fault in time.
- All personnel working around the roller must observe all warning signals and take care of their own and others' safety.
- All personnel should know their working tasks and procedures.
- Watch something like high voltage wire, unrelated personnel and poor ground for potential danger, and report to the operators and signalmen.

Duty of managers

- Ensure the operators are trained and fully understand the Operation and Maintenance Manual supplied by Sany. Ensure they are in physical fitness and have the certification of operation. Otherwise, it is forbidden to operate the roller.
- Ensure the operators have good judgement ability, teamwork consciousness and psychological quality. Otherwise, it is forbidden to operate or repair the roller.
- Ensure the signalmen have good vision and acoustic judgement, master standard command signals. At the same time, they should have enough experience in recognizing danger factors correctly, and inform the operators of danger factors to avoid them in time.
- Ensure assistant workers can identify the model and working condition to choose a proper roller.
- Publicize safety consciousness to working personnel, and make them aware of safety precautions and their related responsibilities.

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 **WARNING**

Read and understand all safety precautions and instructions in this manual before reading any other manuals provided with this machine and before operating or maintaining it. Failure to do this could result in death or serious injury.

ABOUT THIS MANUAL

This manual provides safety, operation, maintenance and technical specification information. If you sell the machine, a copy of this manual must be provided to the new owner.

It is important to read this manual carefully before beginning any operation or maintenance. All personnel involved with this machine must read this manual periodically to remain knowledgeable about its operation and maintenance..

Items addressed in this manual are designed to help you:

- Understand the different systems and performance of your machine.
- Reduce improper operation.
- Point out possible hazardous situations when operating and maintaining the machine.
- Increase machine efficiency during operation
- Prolong the service life of your machine.
- Reduce maintenance costs.

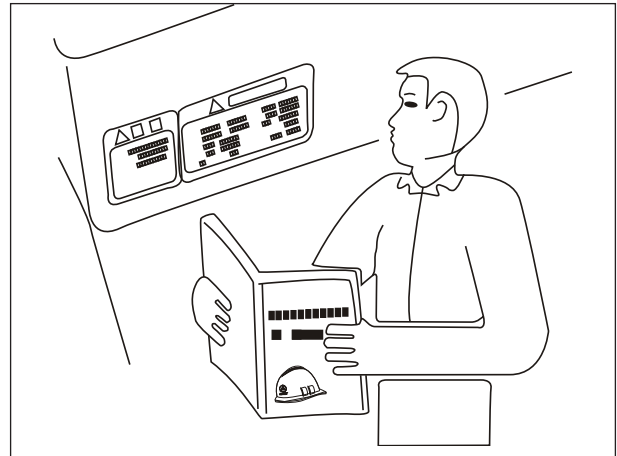


Fig.1-1

Continuing improvements in the design of this machine can lead to changes in detail which may not be covered in this manual. Always consult your Sany dealer for the latest available information on your machine or if you have questions regarding information in this manual.

CONTACT INFORMATION

Thank you for purchasing a SANY product. If you need to contact us for any reason, you can reach us as follows:

- Address: SANY Industry Town, Economic and Technological Development Zone, Changsha, Hunan, China
- Post code: 410100
- Service Hotline: 0086 4006098318
- E-mail: crd@sany.com.cn

YOUR DOCUMENTATION PACKAGE

This documentation applies only to this machine and should not be used with any other machines. The documentation for this machine includes the following items:

Safety, Operation & Maintenance Manual

A copy of this manual should be made available to maintenance personnel when maintaining the machine. See “Organization Of This Manual” on page 1-5 for complete details.

Parts Book

The Parts book consists of parts lists and matching drawings used for ordering spare parts as needed. The Parts book is best left in the workshop area or office. It should always be available to the maintenance and service personnel.

ORGANIZATION OF THIS MANUAL

Table of Contents

List of the general topics that are contained in this manual along with the page number each starts on.

NOTE: There is also a table of contents at the start of each section in this manual.

Introduction

Overview of what is covered in the rest of this manual, including serial number information and Sany contact information.

Safety

General and product-specific safety information relating to this machine. It describes what the hazard alerts mean that are used throughout the manual. Decals used on the machine by location, type and meaning are also addressed in this section.

System Functions

Overview of all controls and operating systems.

Operation

Detailed operator qualifications, pre-start checks, operating procedures and end-of-day checks and storage information.

Maintenance

Routine maintenance procedures, fluid specifications, and torque value

Troubleshooting

Overview of common malfunctions and fault diagnostic procedures for the operating system. Basic mechanical, hydraulic and electrical system troubleshooting are included.

Specifications

Technical specifications and performance information of systems or parts. Some information presented in this manual may vary from your machine due to design changes.

SERIAL NUMBER LOCATION

The serial number is on the nameplate (a) of the machine, which will be needed by your Sany dealer when ordering replacement parts or providing assistance for your machine. Record this information in this manual for future use.

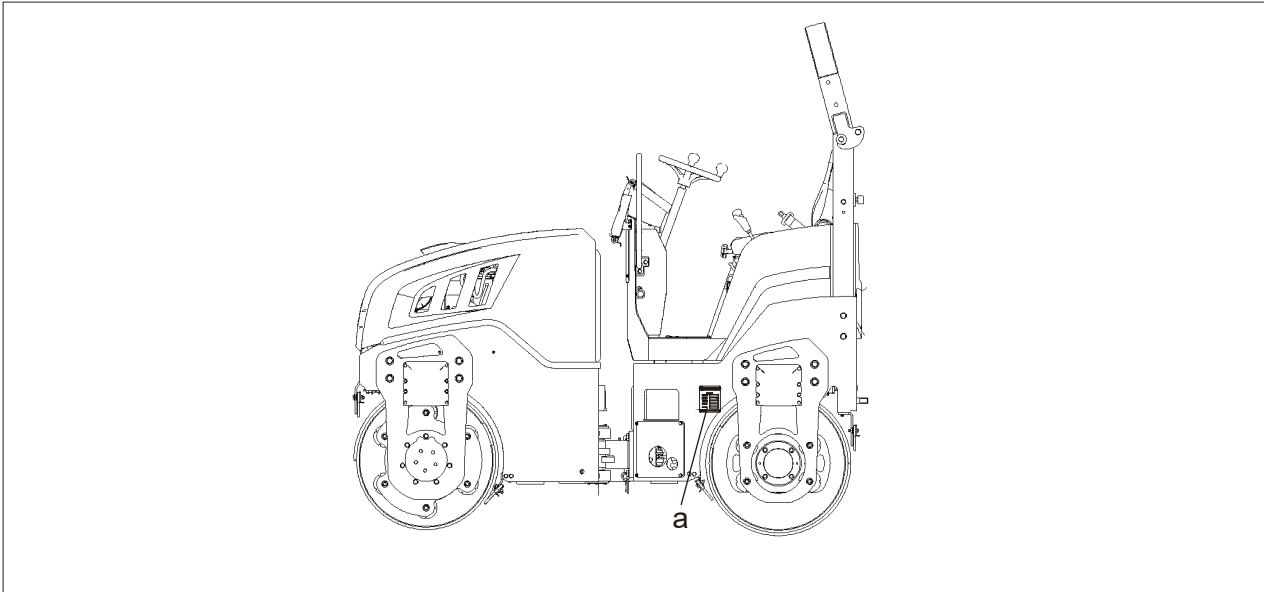


Fig.1-2

Record of Serial Number and Dealer Information

This location is for you to record information relating to your machine. It is required that you keep this manual with your machine at all times for reference.

Product Type	
Serial No.	
Date of Production	
Vehicle Identification Number (VIN)	
Dealer Name:	
Address:	
Phone Numbers:	

CORRECTION REQUEST FORM

If you find a problem with this manual, make a copy of this page, complete the form below and send it to us, attention Technical Publications. You can also email us at crd@sany.com.cn.

NOTE: See "Contact Information" on page 1-3 .

Date of This Request
Your Name
Company Name
Your Department
Street Address
City, State & ZIP
Phone
E-mail
Machine Model & Serial No.
Description of Problem (wrong information, unclear or erroneous procedure, etc.)
Corrective Action by You (if any)

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 **WARNING**

Read and understand all safety precautions and instructions in this manual before reading any other manuals provided with this machine and before operating or maintaining it. Failure to do this could result in death or serious injury.

SAFETY- GENERAL

WARNING

Make sure the precautions described in this manual and the safety decals on the machine are fully understood before operating or maintaining this machine. Read and follow all safety precautions. Failure to do this could result in death or serious injury.

This section of the manual provides detailed information on basic safety precautions and preventative measures to be followed during operation and maintenance of this machine.

Safe operation is very important. Prior to operation and maintenance, carefully read and understand all content in this section of this manual. Only after completely understanding the content in this manual, can the machine be safely and expertly operated. Following are some of the benefits of doing this

- Avoid personal injury or machine damage caused by improper operation.
- Increase the reliability of the machine.
- Prolong the service life of the machine.
- Reduce repair cost and downtimes.

The safety information in this manual provides basic guidelines for safe operation for all authorized personnel. Sany is unable to foresee all risks on work sites, so workers, operators and owners must consider if there are other safety concerns that must be addressed for specific job situations.

Local governments or authorities may have stricter standards. If some stipulations in this manual disagree with the local laws or regulations, the stricter ones prevail.

This manual must be kept on the machine for reference and periodically reviewed by all personnel involved with operation or maintenance of this machine.

Some actions involved in the operation or maintenance of this machine could cause a serious accident if they are not performed in the manner described in this manual.

All procedures and precautions outlined in this manual apply only to intended use of this machine. If you use your machine for any unintended use that is not specifically prohibited, you must be sure that it is safe for you and others to do so. In no event should you or others engage in prohibited uses or actions as described in this manual.

This machine complies with all applicable regulations and standards of the country to which the machine has been shipped. If this machine was purchased in another country or purchased from someone in another country, it may lack certain safety features and specifications that are necessary for use in your country. If there is any question about whether your machine complies with the applicable standards and regulations of your country, contact your Sany dealer before operating this machine

Hazard Alerts In This Manual

Most accidents are usually caused by the failure to follow fundamental safety rules for the operation and maintenance of the machine. To avoid accidents, it is important that all personnel involved with the operation or maintenance of this machine must read this manual before operating or performing maintenance on this machine.

Improper operation or maintenance of this machine could result in death or serious injury.

Carelessness or neglect by operators, job supervisors, maintenance staff, and job site workers can result in their death or injury and costly damage to the machine and property.

To alert operators, job supervisors, maintenance staff, and job site workers to hazardous operating practices and maintenance procedures, hazard alerts are used throughout this manual. Each hazard alert contains a hazard alert symbol and a signal word to identify the hazard's degree of consequence if the message is ignored.

The following (ANSI/ISO) signal words are used to inform that there is a potentially hazardous situation that may lead to damage, personal injury or even death. In this manual and on the machine decals, different signal words or illustrations are used to express the potential level of hazard.

 **DANGER**

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

 **WARNING**

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

 **CAUTION**

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE indicates a situation which can cause damage to the machine, personal property and/or the environment, or cause the machine to operate improperly.

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