

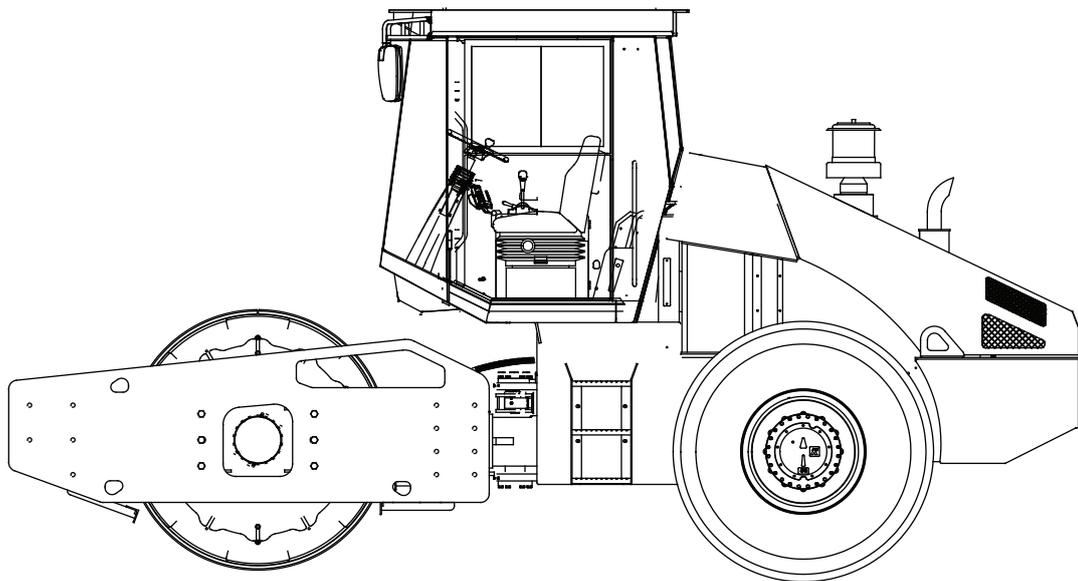


SANY

Quality Changes the World

Single Drum Roller

SSR150C-8



Safety, Operation & Maintenance Manual

SANY

SSR150 Series Single Drum Roller

Safety, Operation & Maintenance Manual



WARNING

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

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RESPONSIBILITY

SPECIFIC DECLARATION

The single drum roller is designed for compaction operation. 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 Safety, 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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1 INTRODUCTION

1.1 Overview

- SANY-built equipment offers high-quality performance and excellent after-sales service support.
- SANY-built equipment is widely used throughout the industry for various types of applications.
- SANY is a leading manufacturer of heavy construction equipment worldwide.

This operator's manual provides safety, operation, maintenance, troubleshooting and specifications. In order to properly use your equipment, it is important to read and understand this manual before using the equipment.

Items addressed in this manual are designed to help you:

- Understand the structure and performance of your equipment.
- Reduce improper operation and point out possible hazardous situations when using equipment.
- Increase equipment efficiency during operation.
- Prolong the service life of your equipment.
- Reduce maintenance costs.

Always keep this manual nearby and have all personnel involved with any work operations read it periodically. If this manual becomes damaged or lost and cannot be read, it is advised to request a replacement copy from your SANY distributor as soon as possible. If you sell the equipment, be sure to give this manual to the new owner. Continuing improvements in the design can lead to changes in details which may not be reflected in this manual. Always consult your SANY distributor for the latest available information on your equipment or if you have questions regarding information in this manual.

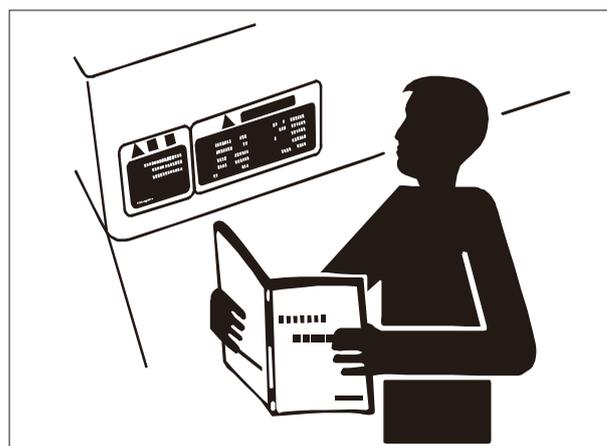


Fig.1-1

1.2 Your Documentation Package

The documentation includes:

- Safety, Operation and Maintenance Manual.
- Parts Book– including the Parts List and the Drawings needed when ordering parts. If the Parts Book is not attached with the equipment, contact SANY.

1.2.1 Recommendations on using the documentation

- The documents only apply to this equipment, and should not be used with any other equipments.
- Ensure that the documents are complete and up to date.
- Put all data in a folder (if including leaflets).
- Print and replace the lost, damaged and blotted pages.
- Add the latest SANY data in time and destroy the inapplicable old documents.

1.2.2 Documentation storage

Always keep the operator manual with the equipment in the operator cabin. The Parts Book is best left either shelved in the workshop area or office. It should always be available to the maintenance and service personnel as required.

1.2.3 Organization of this manual

This operator's manual covers operation and maintenance of your equipment. Get familiar with it before performing any operations. Put this manual within easy reach for your reference and replace it if it is lost or damaged. Due to improvement and updating of products, some information may differ from your equipment. If you have any question on the use and maintenance of your equipment, contact your SANY distributor.

1.2.3.1 Introduction

This section provides an overview of what is covered in the rest of this manual, including equipment label information and SANY contact information.

1.2.3.2 Safety

This section covers basic safety information relating to this equipment. Make sure you fully understand all the precautions described in this manual and the safety decals on the equipment before operating or maintaining this equipment. Failure to do so may result in serious injury or death.

1.2.3.3 System functions

This section provides an overview of all the controls and prompt & operating systems on your equipment. Only when you are familiar with all systems, can you operate and maintain the equipment safely.

1.2.3.4 Operation

This section provides the basic operating procedures for the equipment. It is important to study and become familiar with all procedures before performing any operations with the equipment.

1.2.3.5 Maintenance

This section provides all general maintenance and repair procedures. It is important to study and become familiar with all the maintenance and repair procedures before performing any maintenance or repair operations on the equipment.

1.2.3.6 Troubleshooting

This section includes common malfunctions and fault diagnostic procedures for the operating system of this single drum roller. The basic troubleshooting methods for mechanical, hydraulic and electrical systems are included.

1.2.3.7 Specifications

This section provides the general information about this equipment. Some information may change as design modification.

1.3 Your SANY Equipment

1.3.1 Equipment directions

- (A) Front
- (B) Back
- (C) Left
- (D) Right

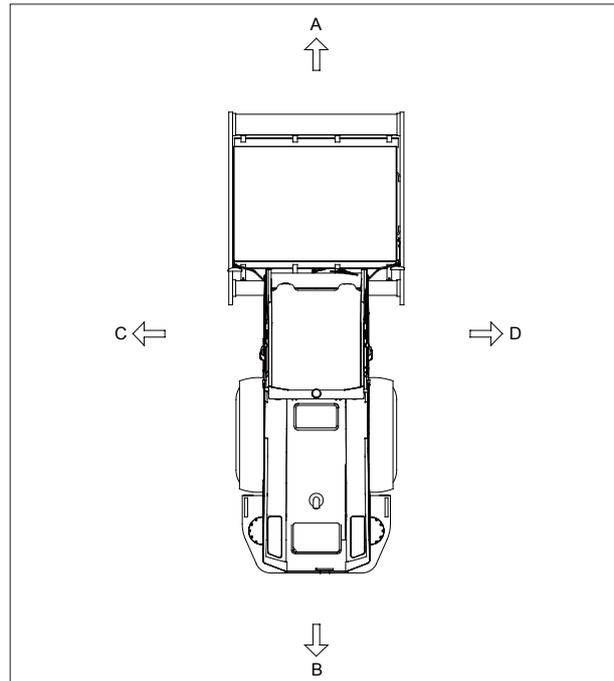


Fig.1-2

1.3.2 Breaking in a new equipment

Your equipment has been well adjusted and tested before delivery. However, initial operation on the equipment in severe conditions will seriously affect the performance or reduce the service life of the equipment. Thus SANY recommends you to perform 100-hour test run before putting the equipment into production use.

During the break-in period:

- Let the equipment warm up prior to any operation.
- Avoid operating or running the equipment at a high speed in overload working conditions.
- Avoid sudden starting, rapid movement or abrupt stop of the equipment.
- Cool down the equipment system at the end of every working day.

1.3.3 Equipment information

The serial numbers and model numbers on the components are the only numbers that your SANY distributor will need when ordering replacement parts or requiring assistance for your equipment. You can find the related information on the data plate. It is a good idea to record this information in this manual for future use.

Product identification plate is riveted on the left side of the rear frame(See Fig.1-3).

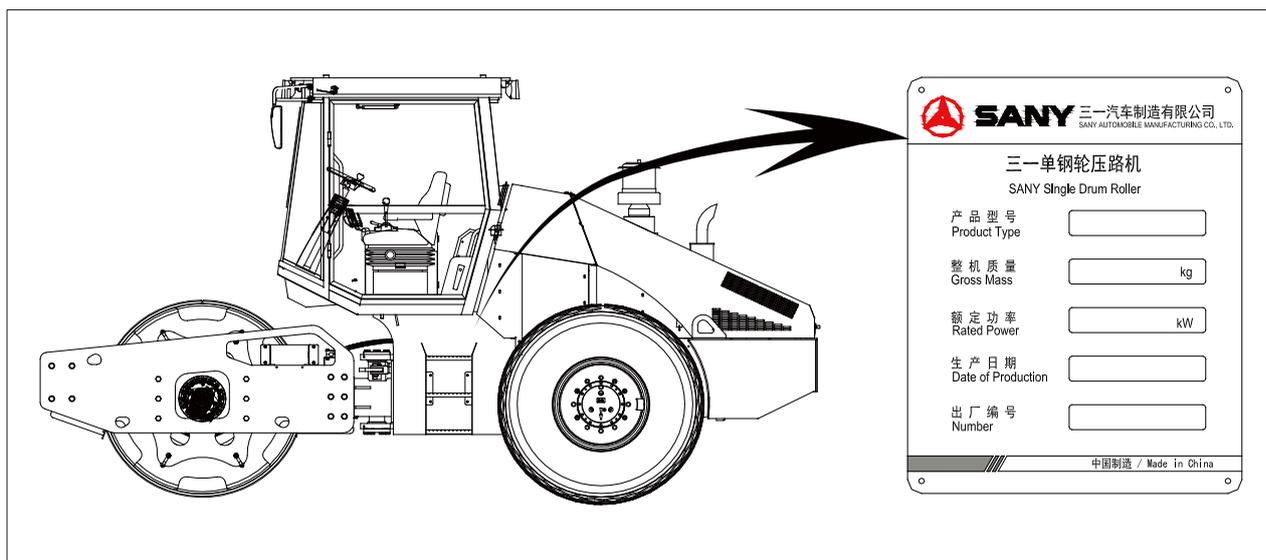


Fig.1-3

1.3.4 Serial number and distributor information

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

Model No.	
Serial No.	
Build Date	
Truck V.I.N. No.	



Distributor Name:

Address:

Phone Numbers:

1.4 Contact Information

Thank you for purchasing a SANY product. In the event that you need to contact us for any reason, you can reach us as follows.

Our address:

Sany Industry Town, Changsha National Economic & Technical Development Zone, Hunan, China, 410100

- Tel: 0086-731-84031888
- Fax: 0086-731-84031999
- E-mail: crd@sany.com.cn

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SANY

Safety

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 **WARNING**

Read and understand all safety precautions and instructions in this manual before reading any other manuals provided with this roller and before operating or servicing the roller. Failure to do this can cause property damage, personal injury or death.

2 SAFETY

2.1 General

This Safety, Operation and Maintenance Manual is a guide for you to operate your equipment properly.

It contains technical and safety information necessary for operation of your equipment. Read and understand each section of the manual.

Always operate your equipment according to national, provincial, prefectural and municipal laws and regulations. The safety information for operation in this manual are just suggestive.

SANY cannot anticipate every possible circumstance that might involve a potential hazard during operation and maintenance. The safety messages in this manual and on the product are, therefore, not all inclusive. If a procedure, work method or operating technique that is not specifically recommended in this manual is used, you must be sure that it is safe for you and for others. You should also ensure that the product will not be damaged or be made unsafe by the operation, lubrication, maintenance or repair procedures that you choose.

Equipments covered by this manual are used for various operations under normal conditions.

Never use the equipment in flammable or explosive environment, or in areas containing asbestos dust.

Select a SANY single drum roller with a configuration suitable for high-plateau operation when operating in areas 2000 meters above the sea level.

The information, specifications, and illustrations in this publication are on the basis of information that was available at the time that the publication was written. SANY reserves the

right to change these information at any time without prior notice. Consult SANY distributor to obtain the latest information or if you have any question on the information provided in this manual.

Before starting operation and maintenance, operator and maintainer shall observe the following items.

- Read and understand the whole manual.
- Read and understand the safety notices contained in this manual and the safety messages on the equipment.
- Never apply or operate your equipment under any circumstances in a manner that is prohibited in this manual.
- If the amount of fuel added, content of particulates ,or latitude is beyond the specification of this type of equipment, damage could occur and the warranty of your equipment would become invalid.



Fig.2-1

The manual should be kept in the cabin all the time for operator to refer to at any time. Contact SANY distributor to obtain a new manual if the original one is missing or cannot be read.

This manual should be regarded as a permanent component of your equipment. If the equipment is sold to a third party, give this manual to the new owner. The equipment provided by SANY Road Machinery Co., Ltd to its buyer is in line with all specifications and standards of buyer's country. If the equipment is purchased from another country or someone of a third country, it might be lacking of some safety devices or technical requirements necessary for using the equipment in your country. In case you question whether the equipment is in accordance with the standards and specifications of your country, contact SANY distributor before operating the equipment.

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