



VAN RACKING SOLUTIONS

Technology in motion

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www.tuv.com
ID: 111123742



Management
System
ISO 9001:2015
www.tuv.com
ID: 9105060283



USE, MAINTENANCE AND WARRANTY MANUAL

01/01/2023 – Vers. 12

INTRODUCTION

IMPORTANT WARNING:

IT IS ESSENTIAL TO READ THIS MANUAL THOROUGHLY BEFORE USING "SYNCRO SYSTEM" VAN RACKING.

CORRECT FUNCTIONING OF THE RACKING AND ITS SUITABILITY FOR PURPOSE DEPEND DIRECTLY ON FOLLOWING THE INSTRUCTIONS PROVIDED IN THIS MANUAL.

Who this manual is aimed at:

This manual is aimed at racking installers, users and maintenance personnel. If this manual becomes lost or illegible, order a replacement from:



Syncro System Spa
Sede Legale:
Via Portile, 114/A
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Updating this manual

This manual reflects the quality and characteristics of the products of which it forms an integral part at the time of sale. Neither products nor this manual can be considered unsuitable or deficient if improvements are introduced at a later date or changes made to comply with new legislation etc. Improvements, modifications, adaptations etc. made at a later date do not oblige the manufacturer to update products already sold and cannot be considered a reason for deeming the said products or the manual accompanying them as deficient or unsuitable.

Customer suggestions

Syncro System is constantly improving and adding to its products on the basis of regular customer feedback. If you have any suggestions for improving our products, please get in touch.

Paintwork

The paintwork and surface treatment (plating) of most components are not intended for outdoor use. Unless otherwise indicated, all components and materials are to be installed inside a vehicle.

General considerations

Syncro products are designed to adapt rationally and efficiently to your personal needs. Syncro racking can therefore be installed in virtually any commercial vehicle. Parts can also be added, removed or moved at any time. If you change your van, you can therefore transfer your racking system to the new vehicle and add further elements as needed. The great variety of elements and sizes available permit the creation of a virtually infinite number of configurations.

Assembly and installation

Syncro System racking is held together by screws, nuts, and other fasteners such as rivets. Fasteners are supplied together with the material to be assembled and can also be obtained from our installation centres. Only use fasteners supplied by Syncro System.

Important! We recommend that you first assemble all the components without tightening the screws, and then tighten the screws once everything is in place. Tighten the vertical screws first and then those inserted horizontally. The screws supplied are button head Allen screws. The tools required are a 5 mm Allen wrench (hex key) for the screws and a 13 mm ring spanner or open-ended spanner for the nuts. Washers (supplied) are to be fitted wherever screws and nuts come into contact with thin sheet metal, such as box section elements and shelves with dividers, and whenever holes are significantly larger than the screw heads or nuts.

Screws should always be fitted with the head visible on the outside of the racking.

Do not over-tighten screws. Once components are securely locked in place, there is no need to tighten the screws further. Nuts are of the self-locking type, so over-tightening offers no benefits and can even cause problems in some cases. Recommended tightening torque: 10 Nm.

Transport of hazardous materials

Regulations governing the transport of hazardous materials inside vans vary from one country to another. You are therefore responsible for seeking all relevant information and complying with applicable legislation. Syncro System declines all responsibility for the consequences of transporting hazardous materials.

In Europe, refer to a transport safety consultant if you intend to carry hazardous materials.

If it is useful or mandatory to ventilate the cargo compartment, you can find various solutions in the Syncro System catalogue.

Racking load capacities

The following table lists maximum permissible loads.

Shelves with dividers and shelves for plastic containers:

DESCRIPTION	MAXIMUM LOAD IN KG
507 mm shelves	100
760 mm shelves	80
1.014 mm shelves	60
1.268 mm shelves	50
1.521 mm shelves	40

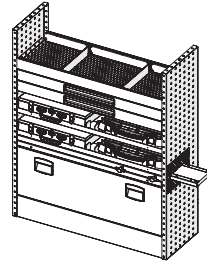
Drawers:

DESCRIPTION	MAXIMUM LOAD IN KG
H. 200 mm drawers (with double runners)	80
Other drawers	40
Case trays	30

Drawer capacity refers to closed drawers with the vehicle in motion or to open drawers with the vehicle stationary.

WARNING! Never drive with drawers open.

The maximum load of each module is 120 kg. The term 'module' refers to a set of horizontal elements installed between one pair of side panels. Most racking configurations consist of one or more modules. See the figure alongside.



Load capacity refers to loads uniformly distributed across all shelves or drawers. Avoid concentrating weight in small areas. Always distribute it uniformly. Average load capacity for complete racking systems is approximately 4 times the total weight of the racking itself. For example, a racking system weighing 200 kg should not be loaded with more than 800 kg of material.

WARNING! Check your vehicle's tare weight and remaining load capacity with all the racking installed. Never exceed the maximum loads permitted by law.

Maintenance

In general, Syncro racking components do not require any special maintenance. All fasteners incorporate locking systems to prevent accidental loosening. Nevertheless, you should check the tightness of fasteners once a month along with the condition of drawer runners, door hinges, locks and all moving parts. Re-tighten any loose screws and replace any parts that show signs of unusual wear. Use only Syncro parts to extend, modify or repair your racking. Lightly lubricate drawer runners if necessary.

Checking the condition of brackets

The brackets that secure the racking to your van's bodywork are designed to absorb and dampen the vibrations and movements that occur inside the vehicle. Brackets can nevertheless break if subjected to unusual stress. The failure of one bracket can then cause others to fail too. It is therefore important to check the condition of brackets every month and replace any broken ones. To do so, proceed as follows:

- Replace all broken brackets.
- Reinforce the attachment points by fitting additional brackets near those previously damaged.

Checking the condition of the bodywork

Unusual stresses can cause damage to the van's bodywork at racking attachment points. It is therefore important to check the condition of your van's bodywork once a month and, if damage is found, reinforce the attachment points by installing additional brackets near the points damaged previously.

Things not to do

- NEVER DRIVE WITH DRAWERS, DOORS OR LOCKERS OPEN.
- NEVER DRIVE YOUR VAN OR USE RACKING IF YOU ARE IN POOR HEALTH OR MENTALLY UNFIT.
- NEVER USE EQUIPMENT WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. ALWAYS COMPLY WITH OCCUPATIONAL HEALTH AND SAFETY REGULATIONS.
- NEVER LOAD YOUR VEHICLE BEYOND THE LIMITS PRESCRIBED IN ITS REGISTRATION DOCUMENT.
- DO NOT INSTALL RACKING IN OPEN-BED VEHICLES (E.G. PICKUPS).
- DO NOT NEGLECT MAINTENANCE. CHECK FASTENER TIGHTNESS AND BRACKET WEAR ONCE A MONTH.
- DO NOT LOAD RACKING ELEMENTS BEYOND THE MAXIMUM LOADS SPECIFIED IN THIS MANUAL. NEVER LOAD ANY RACKING SYSTEM WITH OVER 4 TIMES ITS OWN WEIGHT.
- NEVER MODIFY COMPONENTS FOR PURPOSES OTHER THAN THOSE FOR WHICH THEY WERE ORIGINALLY INTENDED.
- NEVER LOAD SHELVES OR DRAWERS UNEVENLY. ALWAYS DISTRIBUTE LOAD AS UNIFORMLY AS POSSIBLE.
- NEVER INSTALL DRAWERS SO THAT THEY OPEN IN THE VEHICLE'S DIRECTION OF TRAVEL.
- NEVER ALLOW RACKING COMPONENTS OR ACCESSORIES TO CREATE A HAZARD FOR YOURSELF OR THIRD PARTIES EITHER DURING TRANSPORT OR DURING USE.
- NEVER CARRY PERSONS INSIDE A VAN EQUIPPED WITH RACKING.
- NEVER TAMPER WITH RACKING. TAMPERING AUTOMATICALLY INVALIDATES THE MANUFACTURER'S WARRANTY.

Safety when transporting loads

Syncro racking is designed to resist the stresses caused by normal driving conditions. It is even strong enough to withstand impacts that cause serious damage to the vehicle in which it is installed. In the event of a violent collision, the van bodywork is likely to sustain damage first, since the racking is significantly stronger than it. In extreme cases, collisions may lead to the racking detaching from the bodywork. Material transported inside the racking may also move in the event of impact. It is therefore important to:

- Secure cargo transported outside the racking. Syncro System supplies a wide range of hooks, straps and other cargo retaining products for this purpose.
- If not fitted as standard equipment, install a protective grille or partition between the cargo compartment and the cab.

Safety of racking

1. Lighting systems, power sockets that run off batteries, generators, or external power supplies, control wiring, sockets for mobile lighting equipment etc. are regulated by standard EN 60204-1:2006.
2. Power sockets for portable lights must be either 12 or 24 V.
3. In accordance with the Machinery Directive 2006/42/EC:
All sharp corners have been rounded off to avoid causing cuts, scratches and other injuries etc... Sharp corners are further rounded by the use of oven-cured powder paint. Neither the raw materials used to produce the racking nor those in the paint present any risk to users' health or safety.
The interior of the vehicle must be sufficiently well illuminated to avoid incidents caused by poor light. Syncro System supplies a range of low voltage light sources. All Syncro System floor liners are made from non-slip materials. Plywood floor liners are fitted with non-slip edging at all points of access to minimise the risk of falling.
4. "CE" certification and all technical documentation for Syncro System racking have been drafted in accordance with applicable standards and legislation. If specific **B-type** standards exist and are available for van racking, Syncro System acquires them and ensures that products are updated according to them.

Instructions for the safe and proper use of racking not installed by the Syncro System Group or its authorised installers

Introduction

- The purpose of these instructions is to provide all necessary information regarding the safe and proper use of racking that has not been installed by Syncro System or by one of its authorized installation centres.
- This information is the result of continuous developments in the relevant directives and standards, including the Machinery Directive 2006/42/EC and subsequent modifications and additions thereto along with applicable occupational health and safety legislation.
- The information provided is intended for persons with the competence to use racking safely and without damaging the environment.
- Instructions concerning the handling, assembly, disassembly installation, removal, adjustment and repair of racking, accessories and devices are intended exclusively for competent, informed and instructed personnel, and must be applied in strict conformity to the requirements of the machinery Directive and other relevant standards.
- To ensure correct use of the product, keep this manual safe and in a legible condition for future reference.

Important!

- **Before performing any work on the racking**, read the instructions provided in this manual and in the vehicle's manual thoroughly. These manuals provide important information for mechanical and electrical maintenance, new installations and for transferring equipment.
- **If the vehicle, the racking or other equipment is to be used by more than one person**, make sure that each person follows the instructions provided herein and those provided by the vehicle manufacturer.
- **This manual, along with that provided by the vehicle manufacturer** form an integral part of the vehicle, the racking and their equipment: they must therefore accompany them for their entire useful life and be available for consultation at all times. Manuals must be kept in a known and easily accessible place.

Proper use

- The racking described in this manual is designed and made to facilitate the work of users.
- All other uses are improper and relieve the manufacturer of all responsibility for damage or injury.

General safety precautions

- Make sure that you have fully understood this manual. Failure to observe the instructions given herein exposes you, third parties and property to unnecessary risk.
- Before and during use, make sure that applicable safety standards are respected, that the racking and equipment are correctly positioned and fully functional, that ambient conditions are suitable and that there is sufficient space to work in.
- Make sure beforehand that ambient and operating conditions in work areas do not present risks to yourself or persons nearby.

Warnings and cautions regarding machinery in racking systems, and safe working practices

- **Operators**, maintenance personnel and electricians must have the necessary competence and the necessary psychophysical requisites to perform the tasks required of them.
- **It is strictly forbidden** to wear unsuitable clothing (loose or large garments, scarves, long hair etc.) or personal objects (bracelets, watches, rings etc.) when operating machinery.
- **Always read the adhesive warning labels.** If they become illegible, replace them immediately. Replacements can be obtained from any supplier of safety signage.
- **Starting machines in the vehicle**, controlling procedures, operating switches and push-buttons are activities that demand competence, awareness and care on the operator's part. Key switches, pushbuttons and other controls must always be operated with care and never while holding other objects.
- **It is strictly forbidden** to place and/or leave tools, equipment, process waste or any other potentially hazardous material on machinery.
- **Never approach or stand within the reach of moving parts** without first stopping the machinery and disconnecting its power supply.
- **All maintenance work** must be performed by specialist, informed and instructed personnel.
- **It is strictly forbidden** to tamper with equipment, controls or safety devices.
- **Dispose of waste** in conformity to applicable standards and legislation.

All operators must be instructed that:

- It is strictly forbidden to operate machinery without the necessary safety devices and guards in place, to remove the said devices and guards.
- It is strictly forbidden to perform cleaning and/or maintenance while machinery is in motion.

Work areas must be illuminated to at least 300 lux.

Vehicle lighting must be powered at 12 or 24 Volts.

Residual risks

- 1. Do not wear loose clothing.** Do not wear any items that might become entangled in moving parts or machinery, such as long hair, loose sleeves, chains etc..
- 2. Beware of accidental start-ups.** Never operate machinery if not concentrated, while distracted by colleagues, or while eating.
- 3. Beware of moving machinery.** Do not approach moving machinery as you might become entangled.

All operators must be instructed as follows:

- 1. Never operate machinery without the necessary safety devices or guards in place, and never remove the said devices and guards.**
- 2. Never perform cleaning or maintenance while machinery is in motion.**
- 3. Always use suitable equipment to remove and dispose of waste.**
- 4. Never wear clothing or jewellery that might become entangled.**
- 5. Always wear gloves to handle parts with sharp edges.**
- 6. Always follow the correct procedure to replace tools in machinery.**
- 7. Only use machinery for the purpose for which it is intended.**

Warranty

The Syncro System Group, comprising Syncro System S.p.A. and Syncro System dealerships, offers purchasers the following warranty in addition to the rights afforded them by existing consumer protection legislation:

1. Start and duration of warranty
 - 1.1. The warranty applies for a period of 36 months.
 - 1.2. The warranty period commences on the date of purchase of the product, as stated on the invoice or transport document.
2. Content and coverage
 - 2.1. The Syncro System Group shall, free of charge, remedy manufacturing defects that come to light during the warranty period, by repair or replacement of the defective part at the nearest Syncro System dealer. Replaced parts become the property of the Syncro System Group.
 - 2.2. In the event of serious defects that cannot be repaired, the Syncro System Group reserves the right to avoid cancellation of the contract of sale by replacing the product free of charge.
 - 2.3. In the case of products sold outside Italy, the warranty covers only the supply of goods, free of charge, up to the Italian border.
 - 2.4. Without prejudice to legal obligations, all other demands, with particular reference to compensation, are excluded, unless responsibility is established by law.
3. Defects or damage not covered by the warranty
 - a. Defects due to incorrect installation.
 - b. Defects caused by failure to conform to safety standards or follow written installation or operation instructions, with specific reference to the instructions provided in the "Things not to do" section.
 - c. Defects caused by improper use.
 - d. Defects caused by external factors such as transport, accidents, impacts and collisions, and damage caused by atmospheric agents and other natural phenomena.
 - e. Defects caused by repairs or modifications performed by persons not authorised by the Syncro System Group.
 - f. Defects caused by modifications, additions or repairs made using non-original components.
 - g. Damage caused by installing drawers so that they open in the vehicle's direction of travel.
 - h. Damage caused by drilling into the bodywork by more than 5 mm beyond the thickness of the body panels.
 - i. Damage caused to the bodywork by brackets if prompt action is not taken to reinforce attachment points (see "Checking the condition of the bodywork").

The supply of replacement parts under the warranty does not extend the warranty period.

4. Miscellaneous
 - 4.1 The waiver or invalidity in law of any of the above clauses does not affect the validity of the remaining clauses.

/ /
DATE

/ /
COMPANY STAMP AND SIGNATURE



SYNCR0 SYSTEM SPA

Cap. Soc. € 1.000.000 i.v.

Sede Legale:

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**GLI SPECIALISTI DEGLI ALLESTIMENTI PER FURGONI
THE VAN EQUIPMENT SPECIALISTS**



Oltre 80.000 furgoni allestiti dal 1996!

CE DECLARATION OF CONFORMITY OF INSTALLED EQUIPMENT

The company Syncro System Spa hereby declares that the

SYNCR0 SYSTEM RACKING SYSTEM FOR COMMERCIAL VEHICLES

CE Year of manufacture

Installed in the vehicle:

Make Model

Registration/VIN no

Is designed and produced:

- according to the European Directives, Italian laws and harmonised standards applicable to the product;
- according to European Directive 2006/42 EC, transposed by Presidential Decree 17/2010 - European Directive 89/391 EEC, transposed by Legislative Decree 81/08 -harmonised standards UNI EN ISO 12100:2010 - CEI EN 60204-1:2006;
- with reference to the resistance tests contained in standards UNI 10916:2001 and UNI EN 14074:2005 - UNI 8581:2005 - UNI 8604:2005 - UNI 8605:2005 - UNI 9604:1990.
- with reference to the ECE-R 17 sled tests, EK5/AK6 and ZEK 01.04-08:2011-11.
- The technical file for components, installed accessories, design drawings, layouts, test results and the operation and maintenance manual is kept at the disposal of the competent authorities at the offices of Syncro System Spa.

The certificate of origin required by article 76, comma 7, of Legislative Decree 285 of 30 April 1992 is also available on request.

Person responsible for compiling the technical file: Mr. Alessandro Zanandrea.

Date _____ Place _____

Syncro System Spa

Luca Comunello

CE - Rev. 10 del 07-07-20

To be compiled in the event of installation by a Syncro point of sale



Technology in motion



NCRO

SYSTEM