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INTRODUCTION

1.1 IMPORTANCE OF THE MANUAL, ITS USE AND CONSERVATION.

This manual will help you to know and to use your **PROJECT 2000** step in the best way.

Read it attentively before using the machine.

The manual is addressed to the user and/or maintenance technician of the step and is considered an integral part of same.

The purpose of this manual is that of providing information for correct use of the step and appropriate maintenance, as well as ensuring the safety for the operator.

HE/SHE/IT/YOU TO WHOEVER IS ADDRESSED.

The manual is addressed to the consumer of the machine, to the responsible entrusted of the shift, installation, use, overseeing, maintenance and final dismantlement of the machine.

FINALITY OF THE MANUAL.

The manual serves for point out the use of the machine scheduled from the hypotheses of plan and technical characteristics; it furnishes instructions for the shift, the adequate and sure installation, the assemblage, the regulation and the use; it furnishes informations about addressing the interventions of maintenance; it facilitates the order of the spare parts and it furnishes indications about possible residual risks.

RESPECT OF THE LEGISLATION.

Besides the rules of the manual one must respect the legislative specific dispositions in the field of the prevention of the accidents during the job.

MAINTENANCE OF THE MANUAL.

The manual is considered a part of the apparatus and must be preserved in a good state up to the final destruction of the apparatus. The manual will be preserved in a protected and dry place, to the shelter from the rays of the sun and it will always be traceable and available for the consultation in the by of the machine.

HOW ASK AN ULTERIOR COPY OF THE MANUAL.

In the case of damage of this copy of the manual, a new copy could be ask again to the constructor to expenses of the applicant.

INFORMATIONS TO THE CONSUMER.

The manual mirrors the actual state of the technique of the machine and it cannot be considered inadequate only because adjourned in reference to new experiences. The manufacturer reserves the right to adjourn the production and the manuals, without the obligation of adjourning the production and the preceding manuals. The characteristics of the materials can be changed according to the technical evolution in every moment without any warning. The manufacturer considers himself free from any possible responsibility in the following cases:

improper use

use from part of the personal not trained

contrary use to us established in the manual

contrary use to the existing Normative and Legislation

use with defect of primary feeding



use with serious lacks in the scheduled maintenance
use with modifications or interventions not authorized expressly with a written note from the manufacturer
use with the employ of some spare parts not original or not define for the model
use with a total or partial disregard of the instructions contained in the manual.
The general guarantee of sale decays in the case of:
bad maintenance
drawbacks for a wrong assemblage
inexperience of use
limits of performance beyond the prescribed advice
excessive mechanical solicitations and/or electric
use in the conditions that are described to the point n. 04



WARNING!

The ELECTRONIC STEPS, like all the apparatuses with parts in motion, can be font of serious danger if they aren't used in properly and/or protected way.

The customer must guarantee that:

all the operations of transport, lacing, maintenance and reparation are performed from qualified and authorized personnel. We consider qualified personnel (like from IEC 364) those persons who are able to effect every necessary intervention recognizing and avoiding each possible danger and/or damage. This is possible thanks to their formation, education, experience, acquaintance of norms, antiaccident regulations and conditions of use and service.

The manual should be conserved for the entire life of the step and should be given to any other user or subsequent owner.

The information given in this manual does not take the place of the safety rules and the technical data for installation and operation, applied directly to the product or to the packing crates.

This manual reflects the state of the technology at present, and cannot be considered inadequate only due to subsequent updating based on new experience.

The manufacture is, moreover, entitled to modify the manual without being obliged to update previous.

Improper use of the step or utilization other than that specified in this manual will nullify any term of guarantee or liability to the manufacturer. The step should be utilized by adult, responsible persons.

This manual must be carefully conserved, since the manufacturer is not liable for damage caused to persons or things, or damage undergone by the step if utilized in any manner other than that described or if the maintenance and safety prescriptions are not respected.

Knowledge of the product and observance of the instructions contained in this documentation are necessary conditions to guarantee the requisites for safety and correct operation.

It is therefore necessary to scrupulously follow the instructions given here.

For any problem or failure that might occur, apart from routine maintenance, contact our "Customer Assistance Service" directly, to avoid possible alterations in the safety, reliability and functionality of the product.



In any case, all work on the product must be carried out only by qualified, authorized personnel.

The products have been designed and manufactured in compliance with Directive 89/392/CEE and UNI EN 1646-1 regulation current legislation.

No safety device may be removed or modified by the purchaser:

The manufacturer declines any responsibility in case of failure to observe this prohibition.

Any possible modification, which does not impair the existence and the efficiency of the devices installed, must in any case be submitted to the approval of the manufacturer and to inspection by the proper agencies, according to law, under the purchaser's responsibility and at his expense.

For the various components of the steps, the manufacturer furnishes a guarantee of one year against manufacturing defects.

This manual must always be available to the user and/or maintenance technician, who must be informed as to the correct use of the product and any residual risks.

The manual should be conserved in a dry, clean place, protected from heat.

Utilize the manual in such a way as to avoid damaging its content, in whole or in part.

Do not remove, tear out or rewrite parts of the manual, for any reason. If the manual should be lost or further information be required, contact the retailer for your territory or the manufacturer.

GENERAL INFORMATION

2.1 IDENTIFICATION DATA OF MANUFACTURER AND OF PRODUCTS.

MANUFACTURER:

**PROJECT 2000 Snc di Azzolini S. Nardini D. Crescioli A. –
Via Vivaldi 48/A – 50041 Calenzano (Fi) - ITALIA**

ELECTRONIC, ELECTRIC AND MANUAL STEPS



3.0 TECHNICAL DATA

Technical data:

Refer to the data plate put on the step

Ambiental data:

Feature	Value	Unity
Temperature of function	-10 ÷ 40	°C
Temperature of storage	-10 ÷ 50	°C
Highest altitude	3000	m s.l.m.
Dampness of storage	80 @ 20°C	R.H. %
Dampness of function of the environment	90	R.H. %

4.0 HANDLING AND TRANSPORT

The product is shipped in perfect operating conditions after having undergone inspection in our shop.

Type of packing:

- when shipped individually the product is packed in a cardboard box.
- for multiple shipments the steps are packed on pallet good protected.

Transport should be done by a specialized firm.

Upon arrival, inform the transporter of any damage and check that the product is complete and in a perfect state.

Ascertaining that the apparatus doesn't present sign of damage and that the supply is complete and note the eventual anomalies on the transport document or invoice. If the damage is evident, preserve the packing so that the company of transport could inspect it immediately for an application of reimbursement damages. If the supply isn't conforming to the order, address the supplier immediately.

Any damage or discrepancy must be promptly notified.

Any materials inserted as protection for the packages should be disposed of according to their quality.

Packing elements can cut, wound or become hazardous if not handled with care or if used improperly. Do not leave them within reach of children or irresponsible persons.

The machine hasn't been projected, built and tested for the operation in environments where the vehicles cannot run, with tall degree of pollution from some substances gaseous chemistries like chlorine, ammonia and similar, in places with danger of fire and of explosion and in places to high electric risk.

In any case, transport must be effected only by qualified, authorized personnel.

ENGLISH



5.0 INSTALLATION

All installation procedures must be carried out by qualified, authorized personnel. Remove the product from the packing.

- **MECHANICAL INSTALLATION:** lock the step in place, using the bracketing holes present on it. Be sure to select the fastening points at the structural parts of the vehicle for which the manufacturer of same guarantees mechanical resistance to the maximum loads for which the step is designed, in addition to its own weight.

For the double steps or those with a complete disappearance the installation stage shall include adding a side casing to the vehicle to provide an opening of appropriate size in which to house the step.

Place the command switch for the step in a suitable position, to avoid switching it on accidentally. Each step model has been designed and constructed in such a way as to reduce to a minimum or eliminate any risk of cutting or catching. However, the technician who installs it will be responsible for carrying out assembly in such a way as to avoid the presence, upon completion of installation, of any points of risk such as sharp corners, etc.

Upon completion of assembly, check that the step presents no play or movement, indication of incorrect installation.

- **ELECTRICAL INSTALLATION:**

Pay attention to the instructions furnished together with the step (diagram of connection).

In the installation procedure, observe current CEI standards on this subject.

The manufacturer can supply, only for the electronic steps, at the customer's request, a preassembled wiring kit which facilitates the procedure of electrical installation. Upon completion of electrical installation, the step is ready to be put in service and tested.

The Manufacturer declines any responsibility in case of malfunction of the step or of the vehicle due to connection to an electrical system not in a perfect state of operation or to incorrect installation on the vehicle.

6.0 PUTTING IN SERVICE AND TESTING

The product is delivered to the customer integrally tested and ready to be put in service. The procedure for putting the product in service and testing it, once installed on the vehicle, should be carried out by specialized personnel, to eliminate the risks connected with the first putting in service.

All procedures of putting in service and testing must be carried out by qualified, authorized personnel.

7.0 FIELD OF UTILIZATION AND SPECIFIED USE

The product should be destined to the sole use for which it is expressly designed, i.e., getting in and out of vehicles in general.



The manufacturer cannot be held responsible for any damage deriving from improper or erroneous and unreasonable use.

In case of bad weather conditions (snow, ice, etc.) ensure that the step is always kept clean or keep it closed, opening and closing it as needed.

The user must respect the safety rules in force in the country where installation takes place, as well as the rules dictated by common sense, and must ensure that periodic maintenance is carried out correctly.

The installer, user or maintenance technician is required to inform the manufacturer of any defects or deterioration that could impair the original safety of the system.

The responsibilities deriving from commercial components mounted on the product are delegated to their respective manufacturers. The responsibilities of personnel authorized to use the product are delegated to the customer.

8.0 STARTING AND OPERATION

With the vehicle parked the opening and closing mechanism of the step is actuated by the operator using the switch. Once the switch has been pressed (only for the electronic steps) the motion continues without any further action taken by the operator up to the end of the travel, where it is automatically interrupted by means of the electric limit switch which cuts off the power supply to the command motor.

The operation of closing the steps takes place in similar manner, with the operator acting only at the starting stage and automatic interruption of the closing motion at the complete closing of the step itself.

Concerning the electric steps pay attention: the step must be completely opened before leaving the switch and make the same thing for the closing too.

Take care of the children aren't near the electronic step when it is in motion.

8.1 SAFETY DEVICES

The various models have been designed and manufactured taking into account all of the most important safety principles, so as to reduce and/or nullify any risk component linked to operation. In particular, the existence of the following safety devices should be noted:

- **MECHANICAL DEVICES:** all of the step models are equipped with a system of manual unclamping or manual function for manual operation. This is a manual device for coupling and uncoupling the motion transmission elements to allow manual control of the steps in case of malfunction of the motorized means.

**PRIOR TO STARTING THE UNCLAMPING PROCEDURE
ENSURE THAT THE VEHICLE IS IN A STABLE POSITION.
BEFORE STARTING ANY PROCEDURE ON THE STEP
ALWAYS SWITCH OFF THE POWER.**

- **MODELS:** Art. 10570 – Art. 10571 – Art. 10572 – Art. 10574 – Art. 10575 – Art. 10576 – Art. 10577

Unclamping and manual operation from the step open position: pull the knob located on the step's motor side outward. This will disengage the rotation shaft from the electric motor. Ensure that the



knob remains in the disengaged position and proceed to manual unclamping. Oscillating the driving arms of the lower step, move the steps (or step) manually until the system is fully closed. After having reached the closed position, screw the bolt or the eventual system of loosening located on the side opposite the motor in order to lock the mobile parts.

Unclamping and manual operation from the closed step position: in this position, do not attempt to operate directly on the knob, since actuating it would be difficult.

To effect manual unclamping, screw the nut (which fastens the knob) toward the motor (with the support of a n. 13 wrench). The nut will go to buck against a spacer which in turn allows unclamping of the system.

- MODELS: Art. 10855 – Art. 10856 – Art. 10858 – Art. 10859

To do the manual loosening, turn the bolt that come out the step's back with a 17 mm wrench

- MODELS: Art. 10750 – Art. 10751

Operate directly on the step's surface moving it "with caution" following the step's movement so that it's completely closed or opened; the handling could be facilitated by moving the lever connected to the motor.

THIS OPERATION SHOULD BE CARRIED OUT VERY SLOWLY AND CAREFULLY IN ORDER NOT TO CAUSE DAMAGES TO THE MOTOR

8.2 MOTOR PROTECTION SYSTEM WITH SHEAR PIN.

The various models of electric or electronic steps are equipped with a system for protecting the electric motor from mechanical overloads that could act on the motor during operation.

MODELS: Art. 10570 – Art. 10571 – Art. 10572 – Art. 10574 – Art. 10575 – Art. 10576 – Art. 10577

Safety from overloads is obtained through an flexible steel pin with diameter 5 installed on the clutch between transmission shaft and electric motor. The pin has been sized to easily withstand the operating load during movement of the steps (own weight of the parts in motion). At the moment in which an excessive load weighs on the step during movement (e.g., if someone walks up or down the steps while they are in motion), the pin breaks, safeguarding the motor.

MODELS: Art. 10750 – Art. 10751

They have a friction system that restores automatically

DO NOT GET ON THE STEP WHEN CLOSED. THIS OPERATION COULD SERIOUSLY DAMAGE THE MOTOR.



IN ANY CASE WALKING UP OR DOWN THE STEPS WHILE THEY ARE IN MOTION OR IT ISN'T ON THE MECHANICAL CONTRAST IS PROHIBITED

The various models have been designed and manufactured in such a way as to reduce to a minimum or eliminate risks connected with crushing and shearing. Note however that risks



connected with movement of the steps are in practice nullified by the fact that the crushing forces are limited.



DO NOT ACCEDE TO ANY PART OF THE STEP WHILE IT IS IN MOTION.

8.3 ELECTRONIC DEVICES

The various models of steps are equipped with some safety features actuated by electronic devices. The available security systems depending on kind of step (electric or electronic) are the following:

- automatic closure of steps at the moment when the motor of the vehicle is started
- system of non-opening during movement of the vehicle.
- warning light or buzzer signaling the condition of step open.

In addition, there is an electronic protection system which is actuated when the steps in motion are subjected to an excessive load.

9.0 FUNDAMENTAL PRECAUTIONS

- The various safety devices must never be tampered with for any reason
- It is absolutely prohibited to walk up or down the steps while they are in motion
- Do not interfere with the steps while they are in operation, neither with objects nor even less with the hands
- Before starting the vehicle, look to ensure that the steps are in the closed position
- Do not use the step inappropriately (e.g., only one person at a time should walk on the step; do not jump on the step).
- The step should be utilized only by adult, responsible persons
- Before turning the vehicle ignition key and thus actuating automatic closure of the step, ensure that the door where the step is located is closed and that no object or person is obstructing the operating space of the step. After having turned the key, and in any case prior to departing, ensure that the warning light signaling "step open" is off. Before getting out, always make sure that the step is fully open.

10.0 MAINTENANCE AND CLEANING

To guarantee use of the steps without problems and in conditions of maximum safety for operators, it is advisable to follow the inspection and maintenance program given in this chapter. It is essential to respect the rules given for regular maintenance and to inspect all of the elements of the step in order to detect any abnormalities before they become evident and to avoid them wherever and however necessary.

The various models of steps have been designed and manufactured with the aim of reducing maintenance procedures to a minimum.



10.1 MAINTENANCE PROCEDURES

Prior to starting maintenance procedures, ensure that the vehicle is parked in conditions of certain stability.

After having verified the stability of the vehicle, disconnect the electrical system of the step from the vehicle battery.

Art. 10570 – Art. 10571 – Art. 10855 – Art. 10856 – Art. 10858 – Art. 10859

Periodically check the state of lubrication of the two slide guides and the chain must be always good greased (only for Art. 10855 – Art. 10856 – Art. 10858 – Art. 10859). It is important to keep the two guides always well greased, using a thick grease of the “for bearings” type or similar.

NOTE: Do not under any circumstances use white lithium soap grease or spray grease or oil, since the use of these products would have the opposite effect to that desired.

At least once a year lubricate the motor unit. If the vehicle is utilized on snow, repeat this procedure several times a year.

Art. 10572 – Art. 10574 – Art. 10575 – Art. 10576 – Art. 10577– Art. 10750 –

Art. 10751 – Art. 12473 – Art. 12474

They don't need a particular maintenance. It's however important to control the state and the cleanness from time to time and make what it's necessary.

FOR A LONG LIFE OF THE STEP, WASH IT WITH FRESH WATER AFTER DRIVING ALONG ROADS IN PRESENCE OF SALT.

In any case it's necessary to follow these rules of general nature:

- **Every maintenance of emergency and/or temporary is forbidden if it isn't carried out by qualified and authorized personnel.**
- **The step must be preserved in order and tidy.**
- **One must always preserve the integrity of the step.**

If one must practice some more complicate interventions. It's necessary to turn to the qualified personnel.

11.0 DISMANTLING AND DEMOLITION

The Manufacturer has designed and manufactured the steps for a life of at least 500 hours of intermittent operation and **however exclusively if the maintenance procedures described in this manual have been respected.**

Prior to starting the dismantling procedure, disconnect the electrical system of the step from the battery of the vehicle.

The step should be disassembled into its basic parts.

Work only wearing gloves and means of personal protection (M.P.I.) to avoid possible crushing, shearing, cutting.

After having disassembled and sorted the components, consign them to authorized companies for disposal.

Dismantling and demolition procedures must be carried out by qualified, authorized personnel.

ENGLISH



THE MANUFACTURER CANNOT BE HELD RESPONSIBLE FOR POSSIBLE REUTILIZATION OF COMPONENTS OR MATERIALS COMING FROM DISASSEMBLY OF THE STEP.

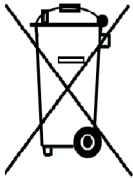
DISPOSAL OF ELECTRIC AND ELECTRONIC PARTS:

The electric and electronic equipments are defined “electric and electronic equipments waste” or “RAEE” according to article 6, paragraph 1, letter a) of the decree-law 05/02/1997 nr. 22 and its following amendments, including all the parts, subsets and consumable materials which make up the product; an inadequate use of these equipments or its components can use serious damages to the environment and to human health due to the dangerous substances they contain.

According to the decree-law 151/2005 it is compulsory not to dispose of RAEEs as solid waste and to collect them selectively; otherwise the sanctions provided for in case of illegal waste disposal will be applied, as per the decree-law of 05/02/1997 nr. 22.

The public administration or individuals (voluntarily) establish RAEE collection systems and RAEE collection centres, such as areas, premises and structures for selective waste collection and temporary storage of RAEE, which users can directly contact.

Private customers have also the possibility to return the equipment to the retailer when purchasing a new one.



The symbol indicating the selective waste collection of electric and electronic equipments (AEE) is a crossed wheeled dustbin: the symbol is printed in a visible, readable and indelible way directly on the product.

12.0 GENERAL PRECAUTIONS CONCERNING SAFETY RULES

All of the hazardous elements, such as shafts, pulleys, chains, crown gears, etc., have been isolated and protected, within their structural limitations, by suitable protective panels.

The above-mentioned panels, which provide efficient separation between hazardous elements and man, must not be removed, even temporarily, and any tampering with them during the working life of the step must be prevented.

Should it become necessary to remove the protective panels, the operator must in any case observe the safety precautions designed to safeguard him and any other person who may be within the radius of action of the step.

In any case, the protective panels should be restored as soon as maintenance has been completed.



**In particular, the following should be kept in mind during maintenance:
Prior to starting work ensure that the vehicle is parked in conditions of certain stability.
All operations must be carried out with the equipment stopped and only after having switched off the power.**

13.0 GENERAL TERMS OF GUARANTEE

Project 2000 gives their customers a 24-months warranty on the different components of the step. The 24-months validity of the warranty starts from the date on which the customer receives the good.

The warranty does not cover:

- Footsteps, as they are considered wear and tear parts;
- Electronic control units, in case Project 2000 detects an incorrect connection to the system;
- Damaged or partially disassembled parts;
- Repair and/or replacement of the steps that were not used properly or not in compliance with the guidelines provided in the specific handbook;
- Repairs and/or replacements carried out by some person other than Project 2000 and/or not authorized by Project 2000;
- Any indirect damage
- Damages due to non-use of the vehicle, if they concern – specifically - parts that are not to be considered vital to full enjoyment and use of the good and because steps have emergency movement devices
- Any repair or operation that is not carried out at Project 2000's premises.

The warranty covers:

- Repair and/or replacement due to manufacturing failures or defects, recognized by Project 2000 after appropriate testing and check on the claimed product(s) at the premises of the company;
- Repair and/or replacement due to reasons attributable to Project 2000 and regarded as necessary at Project 2000's exclusive judgment;
- Any transport costs paid to return the goods in case of acknowledgement by Project 2000 of the claimed failure or defect;
- Transport costs paid to return the goods to Project 2000 are covered for a maximum amount of EUR 20,00 (twenty/00) for each delivery.

Manufacturing defects: The customer must check the goods or let the goods be checked as soon as possible, in accordance with art. 38 of the Vienna Convention. In case the goods have defects, in order not to lose the warranty, the customer must communicate the alleged defects to Project 2000 - describing the kind of defect - no later than 10 days after receiving the goods.

Defects which are not due to manufacturing failure: Defects not due to manufacturing failures must be communicated to Project 2000 no later than ten days after receiving the goods and however within the terms and duration of the aforementioned warranty (24 months).

The defect communication must include a detailed report, specifying:

- How the defect happened to appear;
- Causes of the defect;
- Exact indication of the production number printed on the step label
- Pictures of the defect material.

Communication modality: Communication of failures and/or defects must be carried out as follows:

- by fax to the number 0039 055 8825239
- Alternatively, by email to [HYPERLINK "mailto:info@project-2000.it"](mailto:info@project-2000.it) or ["mailto:info@project-2000.it"](mailto:info@project-2000.it) info@project-2000.it
- Or, alternatively, by registered post to the address: Via Vivaldi 48/A - 50041 Calenzano - Florence - Italy.

Project 2000 commit themselves to reply within five days after receiving the communication.

In case of acknowledgement of manufacturing defect or product defect, Project 2000 will directly repair and/or replace the damaged components. In case of non-acknowledgement of the defect and/of failure, the customer who sent the good must refund any transport costs paid for returning the goods by Project 2000 with a credit note to: Project 2000 - Via Vivaldi 48/A - 50041 Calenzano (Fi) - Italia.

Applicable law: This agreement is governed by the Italian law (civil code and existing Italian law, in accordance with article 4 of the Rome Convention of 1980.

Court: In case of disputes, the court of Florence (Italy) is competent, in accordance to the 44/2001/CE Regulation.

**The steps have the homologation
from the Ministry of Infrastructures and Trasports in Rome
according to the CE 95/54 Directive
and the n°10 ECE-ONU Regulations Amendment 02**

Project 2000 reserves the right to change product design features, size, technical features, materials and/or finishing at any time and without notice.

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