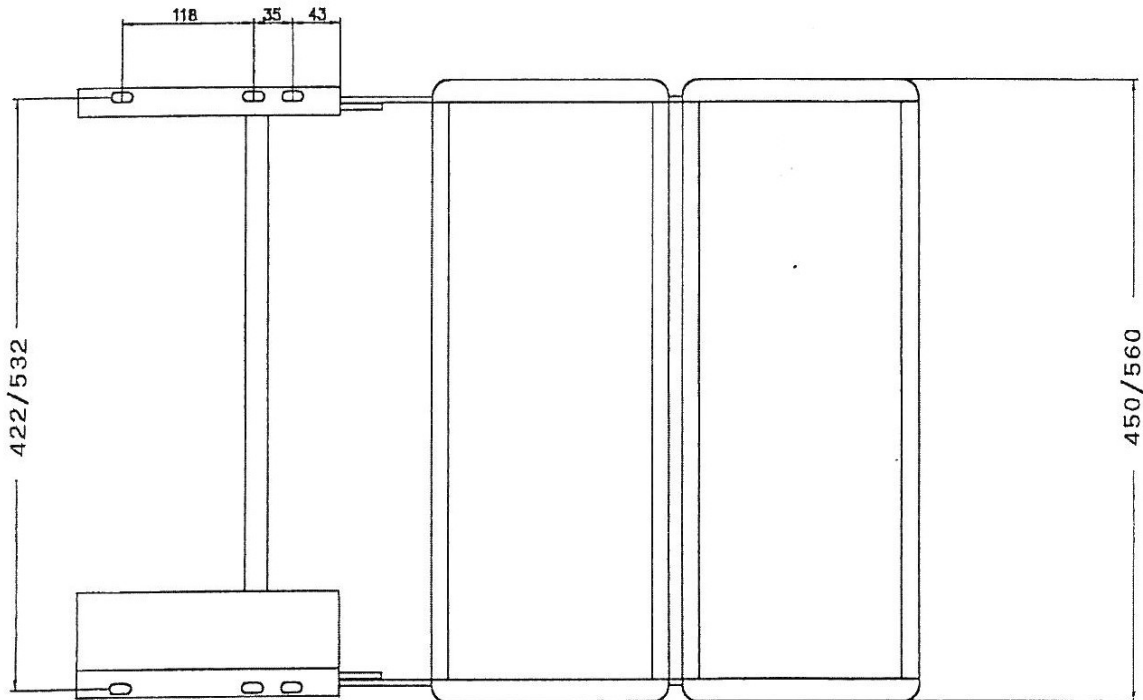


## ELECTRIC TWIN-STEP MOD. TECNO-STEP



**THIS ITEM COMPLIES WITH EN1646 STANDARD**

### Foreword

These instructions for use intend to give all essential recommendations and information for proper installation and maintenance of this step. Every indication herein given is essential to guarantee proper step operation over time.

### How to install the step in the vehicle

- 1) Secure the step to the floor with no. six M8 screws considering a distance between centers of 532x153 mm. Important! Different versions of this step are available. Therefore distance between centers may vary.
- 2) Secure the step to the surface with no. 6 washers  $\varnothing$  8x24 and no. 6 M8 self-locking nuts.
- 3) *For proper operation of the step, secure it to a perfectly flat surface, otherwise its structure will warp after tightening the self-locking nuts due to the level difference of the 6 fastening points. This would cause one of the following problems or both:*
  - a. increased load for motor and transmission parts with possible early failure
  - b. increased power absorption
- 4) In compliance with EN 1646 standard, when the installed step is unfolded, certain distance values should be guaranteed between the ground and the step platform and between the platform and the vehicle entrance.

## Electric system

The step is covered by warranty only if the supplied electric system or an electric system supplied by NUOVA MAPA is used. The use of any other electric systems is forbidden. An improper electric system may cause an early failure of the motor and transmission parts. A diagram of the supplied electric system is attached hereto.

It is recommended all outer harnesses between floor and step be insulated and protected; especially the connector, which should be sprayed with rust-inhibitor and taped with electric tape. Power cables should have a cross-section not under 4 mm. Please note that the longer the distance between the battery and the step, the higher the current leakage and therefore, the slower the step.

Different electric systems featuring different functions are available on request:

ART. 2M01032 Same functions as the supplied electric system plus automatic step folding and vehicle start.

ART. 2M01033 Automatic step unfolding / folding after opening / closing vehicle door; perfect for ambulances or minibuses.

## Use and maintenance

The step has been designed with all protections to prevent dust, soil, pebbles and foreign bodies from entering into the case housing motor and gear. However, it is recommended all parts be cleaned and lubricated as follows:

- a) Remove any sand or dirt from all step joints and lubricate with synthetic oil.
- b) Remove the cover from the case housing the motor and remove any sand or dirt from the gear and then lubricate with soft grease.
- c) Also check gear cogs for wear. Please note that the gear is subject to wear over time, especially where more stressed, that is when in "unfolded" or "folded" position. The life of this part depends on several factors. However, failure of this part is mainly caused by a step platform which is too far down the vehicle floor as people are likely to walk down too heavily onto the very step, thus overstressing it. Therefore, a gentle down-walk will surely make the life of all parts longer.

It is recommended the step be routine-maintained before seasonal garaging, if due, or after wintertime.

### Recommendations:

if the step is very close to the wheel, the wheel should be fitted with a splashguard.

### Emergency release

If the step is stuck when unfolded, fully undo the M8 hexagon head screw on the rear left lever to release. Now fold the step by hand and tighten the screw clockwise into the hole on the right side plate. It is therefore warmly recommended a 13-mm open-end wrench be kept into the vehicle.

## Warranty

The step is covered by following guarantees:

- warranty on motor - 3 years, with starting from the date printed on it
  - warranty on mechanics- 3 years, with starting from the date of vehicle registration
- all other parts, here above not indicated, are covered by warranty from vehicle's builder firm.

Step warranty conditions will become null and void if the step is tampered with, accidentally hit or immersed into water.

*Only apply to specialized and duly trained personnel or the step manufacturer in case of need.*


Only apply to vehicle Service Center within the warranty period.

To have worn parts replaced or repaired, the "Product Identification Sheet" should be filled in and submitted first.

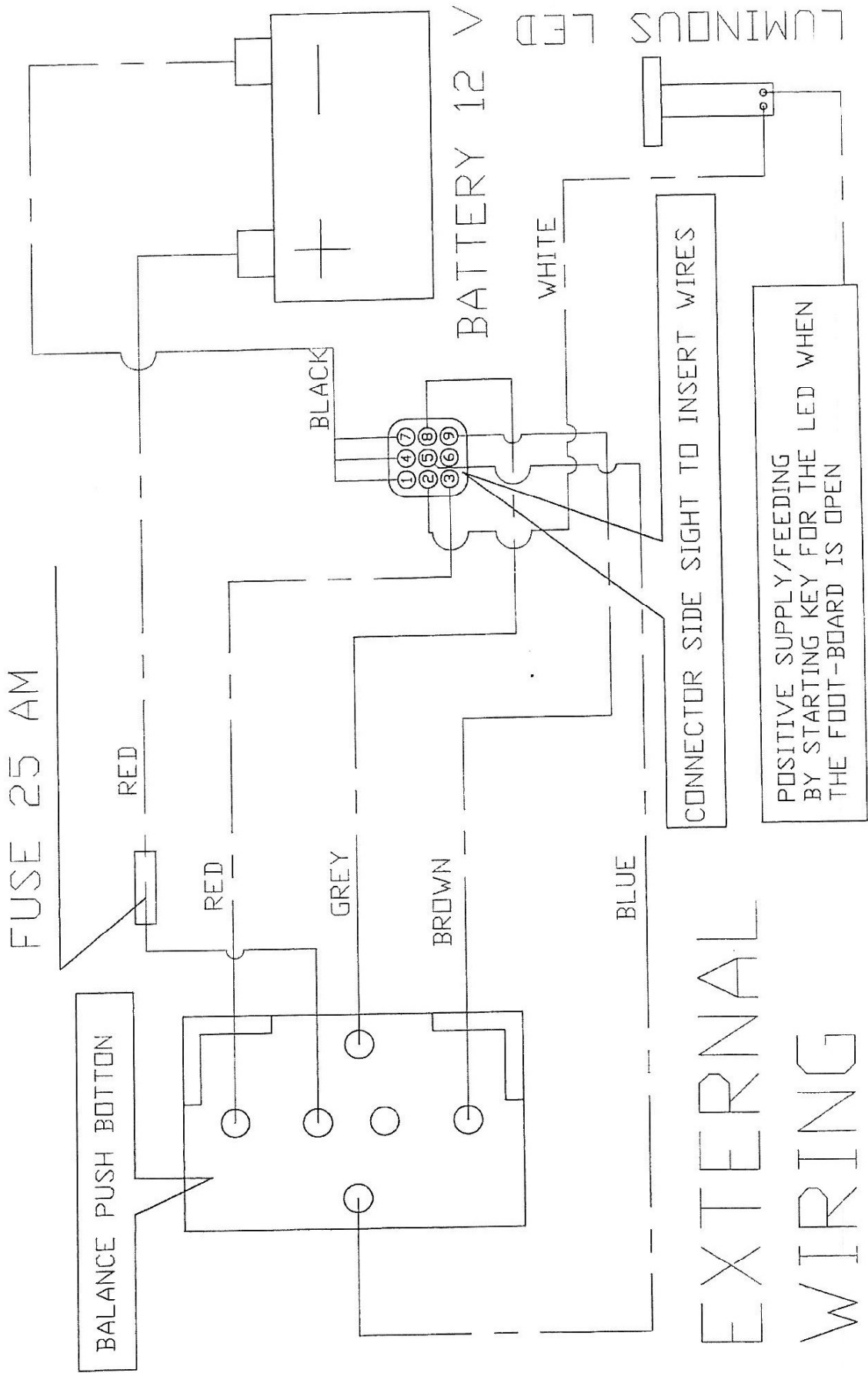
A list of all available spare part and their codes are given below:

Art.	2M01012	Motor
Art.	2M01015	Outer micron
Art.	2M01021	Motor gear complete with shaft
Art.	2V05008	Large gear
Art.	2V05009	Gear drive shaft

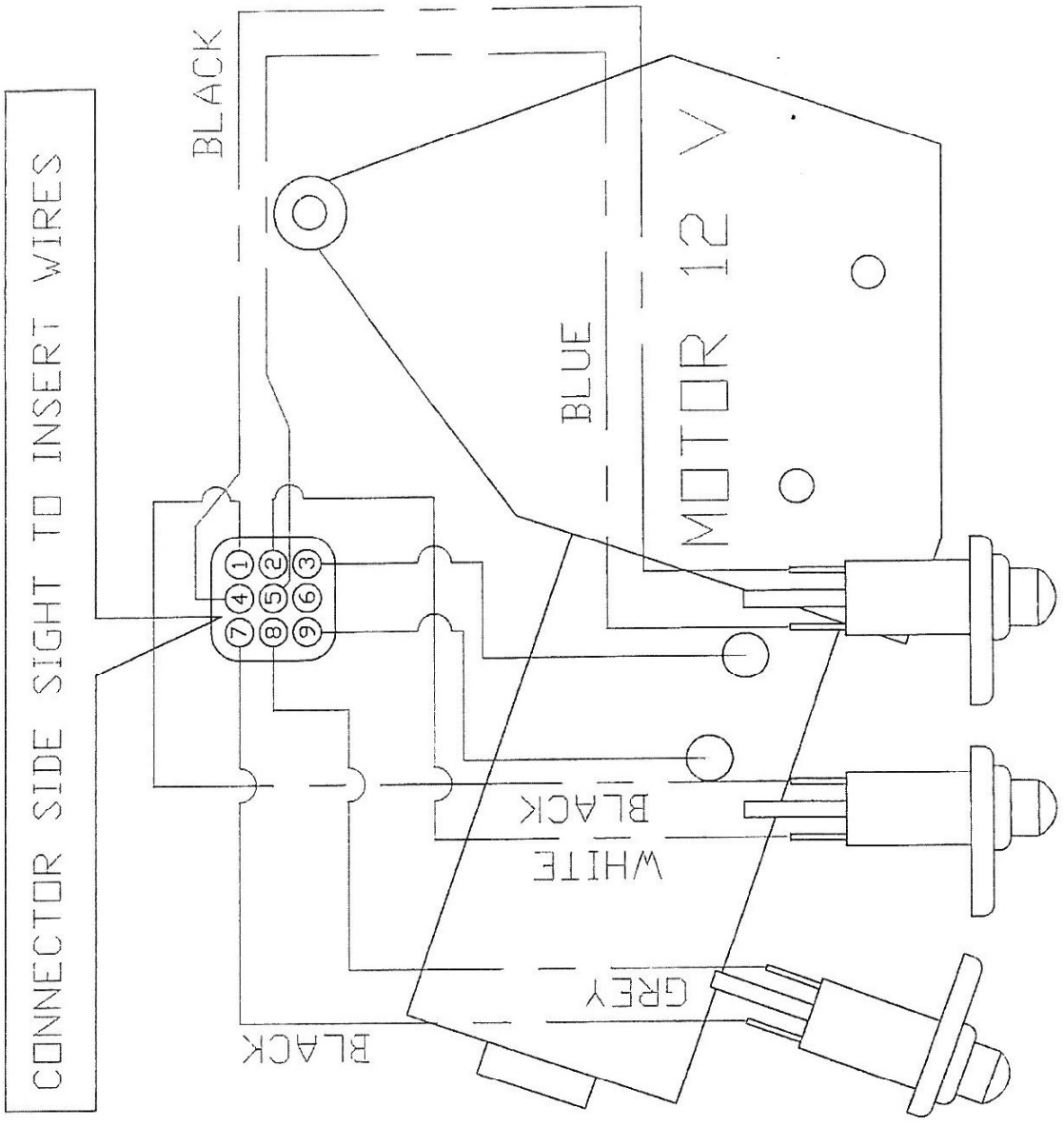
Warning! It is strictly forbidden to operate the step if people/objects are standing on it. The manufacturer disclaims all responsibility for any resulting damages.



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# EXTERNAL WIRING



# INTERNAL WIRING

**PRODUCT IDENTIFICATION FORM**

STEP      ITEM      0721111/B



DATE OF MOTOR BUILDING

12/09

DATE OF STEP BUILDING

22/12/09

TEST MADE FROM NUOVA MAPA S.R.L. ,  
WITH POSITIVE RESULT - OPERATOR NR.

25

REGISTRATION DATE

STEP SERIAL NUMBER

N°24321

INTERVANTIONS AND REPAIRS

Date	Entry and repair's description	Stamp and operator's signature, who makes the repair