

Stem Electrically Powered Retractable Step User Guide

For part numbers
6138 (GE-2017)





**ELECTRICALLY POWERED
RETRACTABLE STEP FOR
PROFESSIONAL USE**

GE-2017



USER AND MAINTENANCE MANUAL

Congratulations for your choice!

STEM S.r.l.-unipersonale thanks you for choosing one of its products and reminds you that it is in the vanguard for emergency transportation technology.

Our company's tradition and reliability ensure the technical quality of your choice; in fact all of our products are manufactured with first quality materials and are based on criteria guaranteeing reliability, solidity, and functionality so as to satisfy the most demanding customer requirements.

Please do not hesitate to contact us for any questions, both of a technical and commercial nature; we are glad to be at your disposal for any clarification and detail.


E-mail: stem@stem.it

CONTENTS

1	GENERAL INFORMATION	3
1.1	WARNINGS	3
1.2	USED SYMBOLS	3
1.3	WARRANTY	4
1.4	DECLARATION OF CONFORMITY	6
2	STEP FEATURES AND TECHNICAL DATA	7
2.1	IDENTIFICATION	7
2.2	DESCRIPTION	7
2.3	TECHNICAL AND MECHANICAL FEATURES	8
2.3.1	GE-2017	9
3	INSTALLATION	10
3.1	ELECTRIC CONNECTIONS	10
	GE-2017 STEP INSTALLATION	16
4	INSTRUCTIONS FOR USE	18
4.1	FUNCTIONING	18
4.2	SAFETY	18
4.3	ANOMALIES	19
4.4	MAINTENANCE	20
5	TECHNICAL ASSISTANCE	21
5.1	ADDRESSES FOR TECHNICAL SERVICE	21
5.2	STEP SPARE PARTS	21
5.2.1	GE-2017	22
5.2.2	ELECTRICAL MOTOR GROUP – DIS0014344	24
5.2.3	GEAR GROUP – DIS0014346	26
6	DISMANTLING AND DISPOSAL	28
6.1	PUTTING OUT OF SERVICE AND DISMANTLING	28
6.2	SELECTIVE SEPARATION OF MATERIALS	28
6.3	DISPOSAL	28
7	REVISION	28

1 GENERAL INFORMATION

1.1 WARNINGS



	<p><i>Upon receipt, the buyer must ensure that the delivered material is in compliance with the order by verifying the correspondence between the transport documents, the shipped material and the delivered one.</i></p> <p><i>The purchaser must also verify that the material itself has not been damaged during transport, checking that the packaging is intact and that the product does not show any breakage or deformation.</i></p> <p><i>Any anomaly must be immediately reported to the carrier (indicate on carrier papers: received unchecked) and to STEM. In the absence of specific agreements it is intended that the goods travel at purchaser risk.</i></p>
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This technical documentation is addressed to all the operators authorized to use the product: it is therefore essential to carefully read the manual in all its parts before carrying out any operation.

STEM declines all responsibility for any damage caused to persons and / or things deriving from the non-observance of the instructions contained in this manual.

STEM reserves the right to make any technical and / or commercial changes deemed useful at any time and without prior notice. Therefore the data and information shown may be subject to changes and / or updates.

1.2 USED SYMBOLS

	<p>Important warnings to avoid damage to the users or to the device</p>
	<p>General information</p>

1.3 WARRANTY

Warranty terms and conditions are stated in the following points unless differently agreed upon at order confirmation time.

WARRANTY OBJECT

The device has been conceived and manufactured for a multi annual use without trouble; however, should anomalies occur during the specified warranty period, STEM commits itself to replace, free of charge, parts that have broken or worn prematurely due to: defective materials, processing defect, or incorrect assembly made by STEM personnel. The warranty is not recognized for those parts whose premature wear or break is due to:

- non compliance with the instructions contained in the use and maintenance manual;
- tampering or modifications without STEM approval;
- use of unoriginal spare parts;
- lack of **or** incorrect maintenance;
- use of unsuitable tools for routine and extraordinary maintenance;
- maintenance or service conducted by unqualified personnel.

Referring to any material installed on STEM products but purchased and/or manufactured from external suppliers, STEM warrants the goods under the same warranty terms recognized by the suppliers and/or manufacturer.

Spare parts supply is granted for at least 24 months from the shipping date indicated in the delivery note.

WARRANTY TERM

The warranty lasts **24 months from the shipping date indicated in the delivery note**; unless it's not sent, within 3 months from the delivery, the warranty activation form duly filled in all its parts. The form must be sent by fax to 0039 0525 430102 or by email at stem@stem.it this term is definite and not subject to extensions following to replacements and/or repairs performed during the warranty period.

The written claim for parts replacement and/or for repairing must be sent at malfunction detection, with detailed description of the fault and it must clearly indicate good model and serial number

APPLICATION

In order to define the causes of the anomalies and to apply the warranty, defective components have to be returned to STEM, free of charge. Warranty repair or replacement interventions will be carried out, on STEM decision, at its own factory, by a third party, or on-site. As to on-site interventions, the customer will be charged of costs for power supply, extraordinary equipment, ancillary staff, STEM's staff travel and board and lodging expenses.

MATERIAL RETURN

Before shipping the parts to be replaced or repaired under warranty, the written approval by STEM is needed.


Defective parts have to be packed correctly to avoid damages during transportation and returned at customer's expenses along with:


- serial number and model of the product (as per identification plate) from which the pieces were removed;
- code number and component position following the spare parts list showed in the use/maintenance manual;
- detailed description of the defect and of the way it occurred.

Parts that are recognized as being under warranty are delivered carriage free; replaced parts remain as STEM's property.

EXCLUSIONS

The warranty does not include parts and material subject to ordinary wear and tear (such as: plastic parts, bushings, plastic guides ecc.) and those whose life cannot be determined in advance.

	<p><i>The absence and/or alteration of the identification plate on the product;</i></p> <p><i>The absence and/or alteration of the serial number in the warranty claim;</i></p> <p><i>The absence and/or alteration of the serial number in the defective items claimed/returned for replacement under guarantee;</i></p> <p><i>implies the immediate decay of any kind of warranty.</i></p>
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	S.r.l. unipersonale	Strada Ghiale 12/D, 43014 MEDESANO (PR) Italy Tel. ++39-0525 430102 – Fax ++39-0525 421341 Internet: www.stem.it E-mail: stem@stem.it
FORMULARIO DI ATTIVAZIONE GARANZIA DEI PRODOTTI STEM		
OGGETTO: RICHIESTA DI DOCUMENTAZIONE PER L'ATTIVAZIONE DELLA GARANZIA Vi preghiamo di inviare questa scheda compilata in tutte le sue parti a STEM srl Italia fax: 0039-0525-421341 - mail: stem@stem.it		
RISERVATO AGLI INSTALLATORI / CARROZZIERI		
Prodotto / Modello STEM:		
EDEN04-X	<input type="checkbox"/> OPTIMUS	<input type="checkbox"/> OPTIMUS-TR
R-3L	<input type="checkbox"/> MEC-EL	<input type="checkbox"/> COMPACT-EL
MEC300S	<input type="checkbox"/> MECFIX-S	<input type="checkbox"/> EASY SLIDE-S <input type="checkbox"/> SIDE-SLIDE-PL
MODU1	<input type="checkbox"/> MODU-2	<input type="checkbox"/> MODU-1-TR <input type="checkbox"/> MODU-2-TR <input type="checkbox"/> TR
MODU-1-TR	<input type="checkbox"/> GE-2017	<input type="checkbox"/> GE-360-K <input type="checkbox"/> GE-380-K <input type="checkbox"/> GE-3110-K
GX-360	<input type="checkbox"/> GX-380	<input type="checkbox"/> GX-3110 <input type="checkbox"/> GP-380 <input type="checkbox"/> GP-3110
GX-2015	<input type="checkbox"/> GP-360-SX	<input type="checkbox"/> GP-380-SX <input type="checkbox"/> ALTRO : <input type="checkbox"/>
Matricola		
Anno di costruzione		
DATI VEICOLO		
Marca e modello		
Targa		
N. Identificativo del veicolo (telaio)		
Installatore / Carroziere		
Nome/Cognome e Firma		
Data:		
CONTRO MARCA UTILIZZATORE (COMPRATORE DEL VEICOLO / CLIENTE FINALE)		
Società		
Indirizzo		
Telefono / Fax		
E-mail		
Nome/Cognome e Firma		
N. d'immatricolazione del veicolo (targa)		
Data della prima		
immatricolazione del veicolo		
Data della messa in servizio del veicolo		
COMMENTI:		
ATTENZIONE: NEL CASO IN CUI IL PRESENTE FORMULARIO NON SIA COMPILATO IN TUTTE LE SUE PARTI, STEM NON ATTIVERA' LA GARANZIA.		
Agg. 20160317		

1.4 DECLARATION OF CONFORMITY

Strada Ghiaie, 12/D
43014 MEDESANO (PR)
ITALY

DECLARATION OF CONFORMITY

OBJECT	Electric retractable step
TYPE	GRAD-AU-K
MODELS	GE-360-K GE-380-K GE-3110-K GE-2017 GE-2017-S
HOMOLOGATION	(E 3) 10 R – 05 6525

This is to certify that the above device is manufactured in compliance with:

- **Directive 2006/42/EC** of the European Parliament and of the Council of 17 May 2006 on machinery, and amending Directive 95/16/EC (recast)
- **UN/ECE Regulation No 10 Rev.5** of the Economic Commission for Europe of the United Nations— Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility

The technical file is stored in the Technical Department of company STEM and the person authorized to compile it is:

Michele Corradi

Medesano,

Il Rappresentante Legale
Menna Ezio

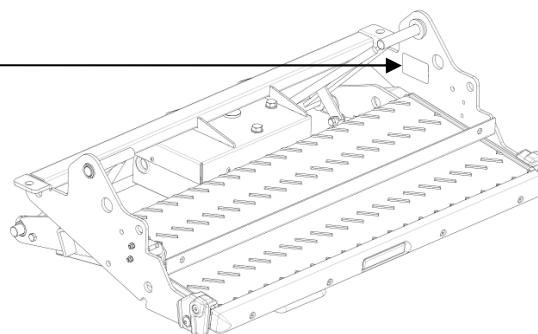


2 STEP FEATURES AND TECHNICAL DATA

2.1 IDENTIFICATION

The step is identified through an adhesive label placed on the cross bar of the fixed frame.

 Strada Ghiaie, 12/D I-43014 MEDESANO (Parma) ITALIE	
TYPE	GRAD-AU-K
MOD:	GE-2017
E ₃ 10 R – 05 6525 CE	
Serial N° 17 XXXXX	13.7 kg DC 12 V 5/18 A

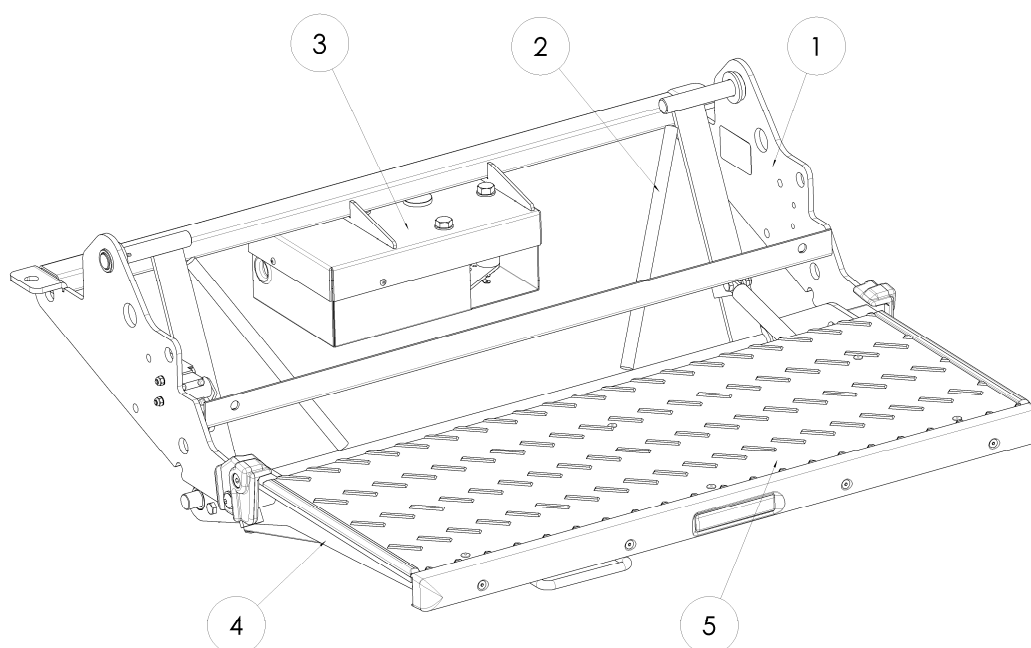


Do not remove the label. In case of damage contact STEM and ask for a duplicate. The step cannot be sold without label.

2.2 DESCRIPTION

The retractable step “GE-2017” is constituted by:

- A fixed structure connected to the vehicle chassis (1)
- A mobile frame (2) powered by an electric motor (3)
- A retractable foot-board (4) with refractive edge equipped with anti-slip layer (5)



2.3 TECHNICAL AND MECHANICAL FEATURES

MECHANICAL FEATURES	
OVERALL DIMENSIONS GE-2017	
WEIGHT	13.7 kg
MAXIMUM CAPACITY	250 kg
CYCLE TIME	1 s ± 0.5 s
POWER SUPPLY	
DC MIN/MAX SUPPLY VOLTAGE	10.5/12.5 V
MAXIMUM ABSORPTION	10 A
MIN/MAX WORKING TEMPERATURE	-20° - +60°



Reported data do not bind the manufacturer; they can be modified without notice. In any case STEM is at customer disposal for any detail or clarification

CONVERSION TABLE OF UNITS OF MEASUREMENT

Length	1 inch = 1" = 25.4 mm	Power	1 kW = 1.36 CV = 1.34 BHP
Volume	1 litre = 1 l = 0.260 gallons	Weight	1 kg = 2.204 pounds
Temperature	T (K) = t (°C) + 273 / t (°F) = 1.8 t (°C) + 32	Pressure	1 bar = 100 kPa = 14.5 psi

3 INSTALLATION


WARNING:

The galvanized parts of the step must be treated with a protective preserving wax spray

Examples of suitable products:

Protective wax for zinc parts: TEROSON Multi-Wax-Spray

The GE-2017 can be installed on any type of vehicle whose body dimensions are compatible with step overall dimensions.

INSTALLATION PROCEDURE OF GE-2017 STEP ON A COMMERCIAL VEHICLE

ATTENTION: All pictures are given indicatively and may differ from the reality according to the step and the vehicle in your possession

ATTENTION: In case of any vehicle modification, it is necessary to follow the indications given by the manufacturer according to the information of the bodybuilder's manual

3.1 ELECTRIC CONNECTIONS

- The electronic control unit has to be mounted in the internal compartment.



WARNING: the degree of protection of the electronic unit is IP20.

INSTALL THE UNIT IN A DRY PLACE

- The control unit connections have to be at a distance of at least 20 cm away from any motor or solenoid valve, as well as from supply cables of other consuming appliances.



- WARNING:** the electronic unit connecting cables (+/-12V) have to be connected directly to the battery terminals by interposing a 30 A fuse.

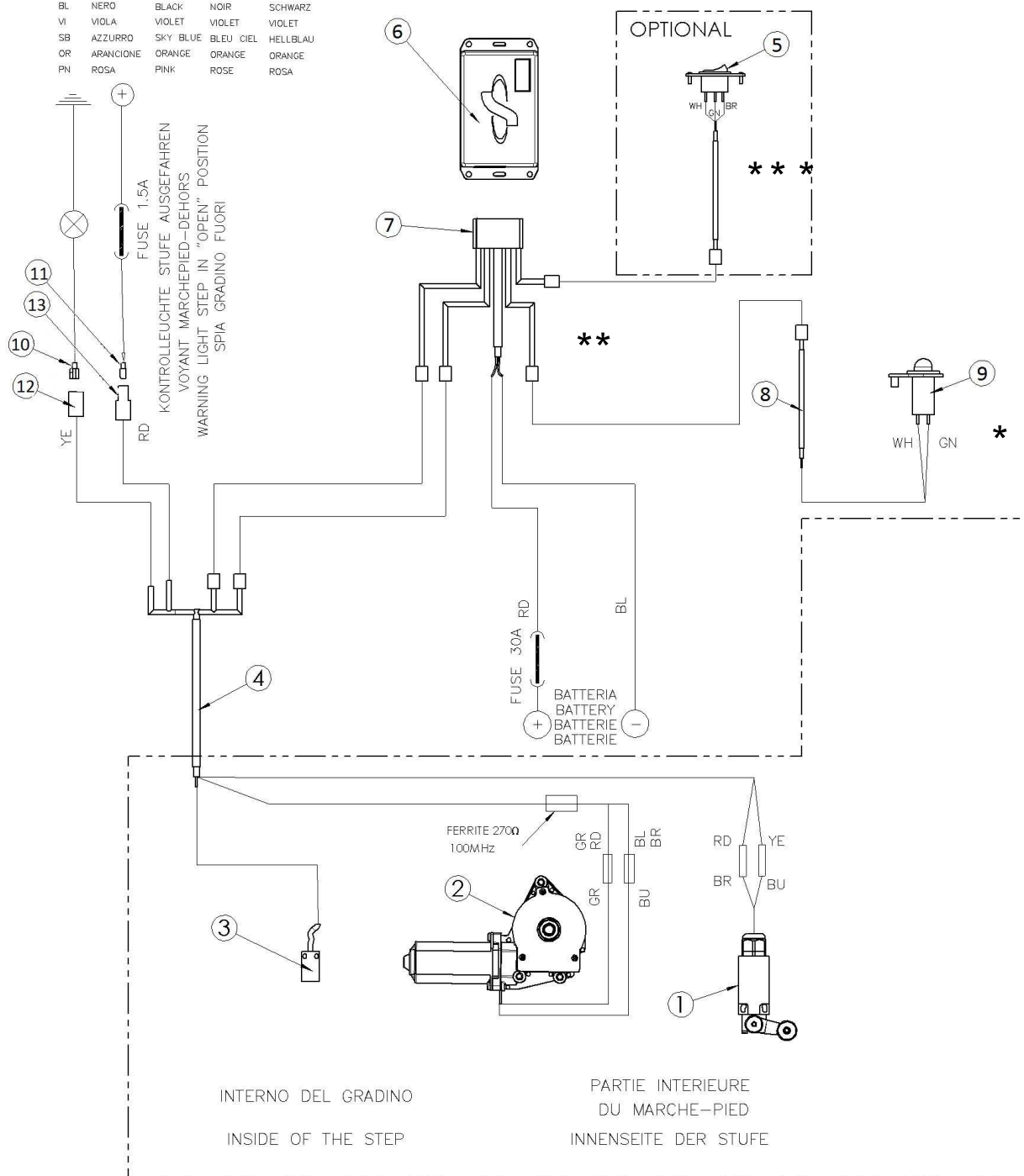
The new electronic system at each power supply of the control unit executes a closing operation necessary to reset the system (Example if the step stop in a different position from the closing position). During this operation, the step interrupts the movement with a current cut. To increase the life of the step it is advisable to keep the system always powered. The power consumption with the stand-by step is <1 mAh. If the step is only powered when the sliding door is opened, it is possible to have a delay in opening phase

- The above mentioned cables section has to be of 4 mm².
- The warning light STEP OPEN has to be positioned in a visible place for the driver.
- The light MUST NOT be supplied by the same supply cable as the motor and it turns off after the step has completely closed.
- All signals for moving the step to be activated will be connected to ground

To check connections see diagram **DIS0014368** in the next page.

- MINIMUM TEMPERATURE USE:** -20°C
 - MAXIMUM INCLINATION -20°C:** 5% (~3°)
- Technical report Nr. 28110690-003 TÜV

LEGENDA	RD	ROSSO	RED	ROUGE	ROT
	WH	BIANCO	WHITE	BLANC	WEISS
	BR	MARRONE	BROWN	MARRON	BRAUN
	BLU	BLU	BLUE	BLEU	BLAU
	GN	VERDE	GREEN	VERT	GRÜN
	GR	GRIGIO	GREY	GRIS	GRAU
	YE	GIALLO	YELLOW	JAUNE	GELB
	BL	NERO	BLACK	NOIR	SCHWARZ
	VI	VIOLO	VIOLET	VIOLET	VIOLET
	SB	AZZURRO	SKY BLUE	BLEU CIEL	HELLBLAU
	OR	ARANCIONE	ORANGE	ORANGE	ORANGE
	PN	ROSA	PINK	ROSE	ROSA



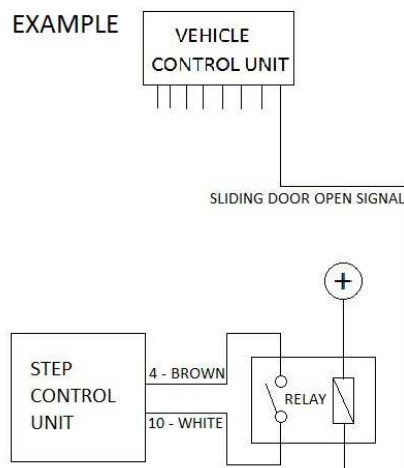
DIS0014368			
POS.	CODICE	DESCRIZIONE	N°
1	EFINCPASSAGX3	End stroke	1
2	EMUM203A10SS	Motor	1
3	SEN-W5MC1	Sensor	1
4	DIS0014356	Step – control unit cable	1
5	DIS0014372	OPTIONAL KIT FS	1
6	CENTRAMUNGE2	Step control unit GE-2017	1
7	DIS0014355-R01	Step supply cable	1
8	DIS0014357-R00	Door button cable	1
9	EPULS4209530	Door button	1
10	EFASTONFEM	Female faston	1
11	EFASTONMAS	Male faston	1
12	EPORFASFCG	Female faston box	1
13	EPORFASM1C	Male faston box	1

* DOOR BUTTON

The door button can be replaced with a signal that simulates the opening and closing of the sliding side door in which the step is installed:

PIN 4 – BROWN/MARRONE – SIGNAL

PIN 10 – WHITE/BIANCO – GROUND



(*) For proper functioning, use a standard relay with dry contact

OPTIONAL – KIT FS – DIS0014372

The FS optional is a kit system that allows the automatic control of the step. The code DIS0014372 includes a rocker switch (ON - 0 - ON) with fixing kit, the connection cable and the control unit to activate the function.

INSTRUCTION:

1. Replace the control unit CENTRAMUNGE2 with CENTRAMUNGE2FS
2. Connect the FS cable (DIS0014336) with the control unit
3. Connect the FS cable (DIS0014336) with the button (ATTENTION: connect the green wire to the center pin of the button)
4. Fix the button on the vehicle control panel.

Num. articolo	Num. parte	Descrizione	Montaggio/QUANTITÀ
1	EPULSC1572ALAAA	Pulsante bascula MON-OFF-MON	1
2	DIS0010926-R00	PANNELLO FISSAGGIO SWITCH	1
3	RIVE2.911A	Rivetto Ø2.9x11 alluminio	4
4	DIS0014336-R00	Cablaggio pulsante cusetto-centralina GE-3K - GE-2017	1
5	CENTRAMUNGE2FS	Centralina gradino GE-2017 per KIT-FS	1

MODIFICHE

COPIA N°

DESCRIZIONE: KIT GESTIONE FS GRADINI GE-2017 + KIT SENSORE + ISTRUZIONI

MATERIALE:

MACCHINA: GE-2017

GRUPPO:

DATA: 30/11/2017

DESIGNATORE: LOTI

FORMATO: A3

SCALA: 1:5

PRODOTTORE: DIS

NUMERO: 0.13

KG

TRATTAMENTO SPECIALE:

TRATTAMENTO TERMICO:

DIS, N° DIS0014372-R00

QUESTO DISEGNO È DI PROPRIETÀ DELLA STEM S.r.l. UNIPERSONALE CHE SE NE RISERVA I DIRITTI SANCTI DALLA LEGGE

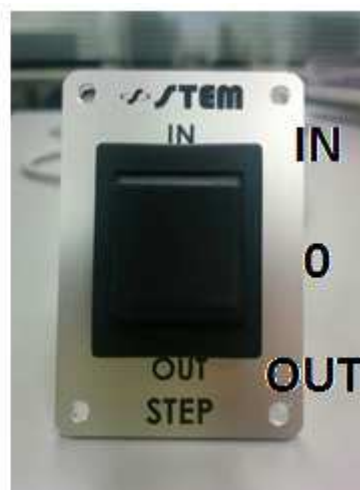
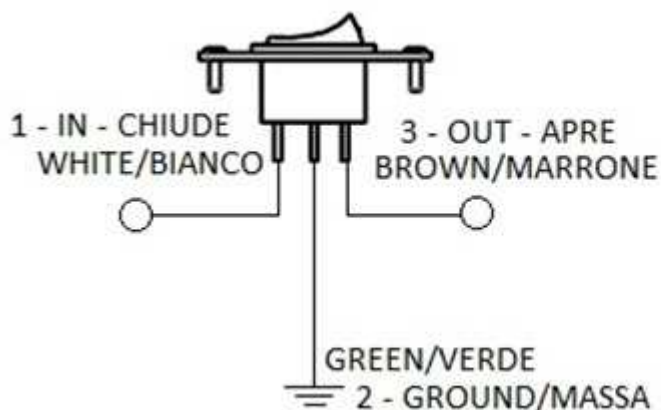


WARNING: THE OPTIONAL KIT-FS
OPERATES ONLY with its control unit CENTRAMUNGE3FS

DIS0014372			
POS.	CODICE	DESCRIZIONE	N°
1	EPULSC1572ALAAA	Rocket button MON-OFF-MON	1
2	DIS0010928	Cover	1
3	RIVE2.911A	Rivet	4
4	DIS0014336	Wiring	1
5	CENTRAMUNGE2FS	Step control unit GE-2017 - KIT-FS	1

INSTRUCTION:

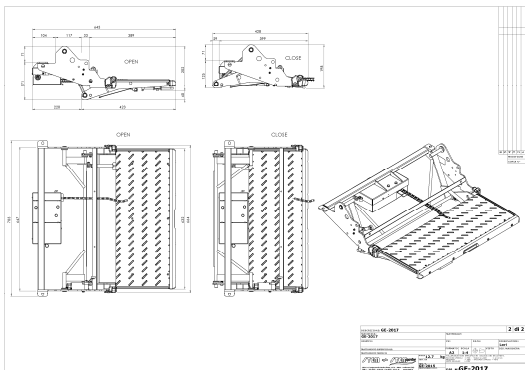

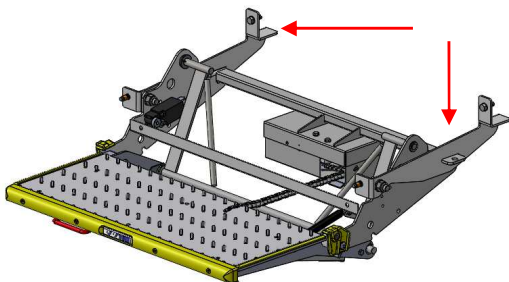

1. Replace the control unit CENTRAMUNGE2 with CENTRAMUNGE2FS
2. Connect the FS cable (DIS0014336) with the control unit CENTRAMUNGE2FS
3. Connect the FS cable (DIS0014336) with the button (ATTENTION: connect the green wire (ground) to the center pin of the button)
4. Fix the button on the vehicle control panel.






LOGIC - OPTIONAL - FS		
DOOR POSITION	ROCKER BUTTON	STEP POSITION
CLOSE	IN	IN
CLOSE	OUT	IN
OPEN	IN	IN
OPEN	OUT	OUT

- **OPERATION**
 - WITH OPEN DOOR THE STEP IS NOT EXECUTING AUTOMATIC
 - THE STEP IS ALWAYS RETURNS WITH THE DOOR CLOSED

GE-2017 STEP INSTALLATION

INSTALLATION		
PHASE	DESCRIPTION	PICTURE
1	Please check that the maximum overall dimensions of the step comply with the dimensions of the commercial vehicle (see Step technical features pages 8)	
2	<p>Please prepare GE-2017 automatic step and underbody bracket (*) before proceeding with the installation.</p> <p>(*) The fitting kits do not come with the step; they are to be ordered separately</p>	
3	Please fix the chassis fitting kits on GE-2017 step frame (see underbody mounting brackets technical features inside the bracket kit)	
4	Please position the step in the middle of the door or in the needed position.	

INSTALLATION		
PHASE	DESCRIPTION	PICTURE
5	After having positioned the step, please mark and make the fixing points on the vehicle for the chassis fitting kits (it is necessary to use the thread lock [Loxal 55-02 or similar])	
6	Please check the correct locking of all fixing screws of the chassis and door fitting kits.	
7	Please proceed with electric connections. See chapter 3.1 electrical connections	

4 INSTRUCTIONS FOR USE

4.1 FUNCTIONING

GE-2017 is completely automatic and is controlled by an electronic control unit.

The OPEN and CLOSE inputs derive respectively from the release and the pressure of a button triggered by the vehicle door at its opening and closing.

4.2 SAFETY

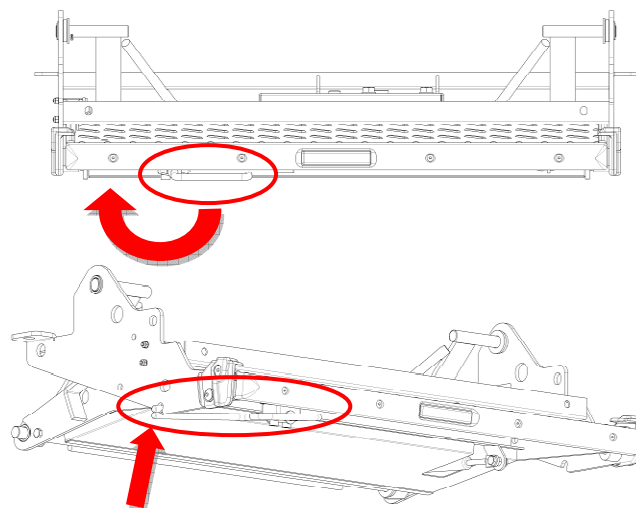
In case of:

◆ POWER CUTOFF

with **OPEN STEP**,

The step can be closed by manually pushing inward the retractable footboard.

At the end of the backward stroke rotate the safety lever until it is hooked to the fixed frame (see pict.)



in case of:

◆ OBSTACLE DURING THE OPENING STROKE

The step stops against obstacles with a force of 5 kg, without compromising the functioning of the engine.

4.3 ANOMALIES



Interventions have to be performed by authorized and trained staff.

Should the problem persist, do not try personal solutions, but contact STEM's technical service; do this also in case of anomalies that are not mentioned in the following tables.

PROBLEM	CHECK	INTERVENTION
The step <u>DOES NOT OPEN</u>	<ul style="list-style-type: none"> ◆ The SLIDING PARTS have to be cleaned ◆ The BATTERY charge ◆ The FUSE integrity ◆ The BUTTON ON THE DOOR: <ul style="list-style-type: none"> – electric connections – contacts ◆ The CONTROL UNIT: <ul style="list-style-type: none"> – electric connections – inlet voltage – motor supply cables voltage ◆ The MOTOR: <ul style="list-style-type: none"> – electric connections – functioning with 12V dc direct supply ◆ The SAFETY LEVER must be unlocked ◆ the SPRING GAS integrity 	If the problem persists after checks contact our service dept.
The step <u>DOES NOT CLOSE</u>	<ul style="list-style-type: none"> ◆ The BUTTON ADJUSTMENT on the door rabbet ◆ The integrity of the CHAIN and of the CROWN ◆ The BATTERY charge ◆ The FUSE integrity ◆ The BUTTON ON THE DOOR: <ul style="list-style-type: none"> – electric connections – contacts ◆ The CONTROL UNIT: <ul style="list-style-type: none"> – electric connections – inlet voltage – motor supply cables voltage ◆ The MOTOR: <ul style="list-style-type: none"> – electric connections functioning with 12V dc direct supply 	If the problem persists after checks contact our service dept.
The warning light <u>DOES NOT TURN ON</u>	<ul style="list-style-type: none"> ◆ The BULB integrity (if necessary replace) ◆ POWER SUPPLY ◆ The SWITCH adjustment (if necessary replace) 	If the problem persists after checks contact our service dept.

* If the problem persists contact STEM's technical service

4.4 MAINTENANCE



Make sure all the maintenance operations are executed by authorized and trained staff, in particular regarding the electric parts

In case you note a non-conformity of the original product , put it out of service, until a repair or a component replacement has been performed.

Please contact exclusively STEM For technical assistance and spare parts enquiry.

ORDINARY MAINTENANCE:

- Wash the step with a not aggressive water jet, avoiding to focus the water jet directly on the electric parts and the motor group
- Wash the step with a soft brush and a not aggressive detergent
- Rinse abundantly with water
- Spray the pins with lubricant

EXTRAORDINARY MAINTENANCE:

- Wash the step with a not aggressive water jet, avoiding to focus the water jet directly on the electric parts and the motor group
- Wash the step with a soft brush and a not aggressive detergent
- Rinse abundantly with water
- Spray the pins with lubricant
- Treat the electric steps' chain with a protective lubricating spray
- Treat the mechanical parts with a protective lubricating spray

Examples: Protective lubricating: WÜRTH HHS-Lube Sprühfett – 5000

CONDIZIONI	MANUTENZIONE	PERIODICITÀ
Summer time with not particularly dirty streets	ORDINARY	EVERY MONTH
	EXTRAORDINARY	1 TIME per season
Summer time with dirty streets (mud, rubble ecc)	ORDINARY	EVERY WEEK
	EXTRAORDINARY	EVERY 2 MONTHS
Winter time without the streets' treatment with salt	ORDINARY	EVERY WEEK
	EXTRAORDINARY	EVERY 2 MONTHS
Winter time with the streets' treatment with salt	ORDINARY	EVERY WEEK
	EXTRAORDINARY	EVERY 3 WEEK
Places with polluted environment, with salty or humid air (coast areas)	ORDINARY	EVERY WEEK
	EXTRAORDINARY	EVERY 3 WEEK
NOTE:	Check the efficiency of the safety block: <ul style="list-style-type: none"> • Close the step manually • Rotate the safety lever until you couple it up to the fixed frame 	

5 TECHNICAL ASSISTANCE

5.1 ADDRESSES FOR TECHNICAL SERVICE

For service under warranty and/or the request of maintenance or repair interventions, or for any kind of information, the customer may contact the STEM technical service:



**STEM S.r.l.-unipersonale – Strada Ghiaie, 12D
43014 Medesano – (Parma) - Italy**

	PHONE	FAX	E-MAIL
STEM ITALIA	+39-0525-430102	+39-0525-421341	stem@stem.it

Many of the technical problems can be solved with small interventions; therefore we recommend that you consult this manual before contacting our Technical Support Service.

In case of request for service, it is necessary to clearly describe the problem encountered, so that the technician can intervene by supplying the most suitable material.

5.2 STEP SPARE PARTS

To order a spare part is necessary specify, the model of step, the identification number, the description of the component, the code and the required quantity.

Step: Model/Serial N°/ Description / Code > q.ty 1

Example:

Step: GP-360-SX /17 56196/ Bushing / DIS0004066 > q.ty 1

Standard shipment are Exw Stem factory.

STEM undertakes to supply spare parts in the shortest possible time, depending on stock availability and the complexity of the spare part.

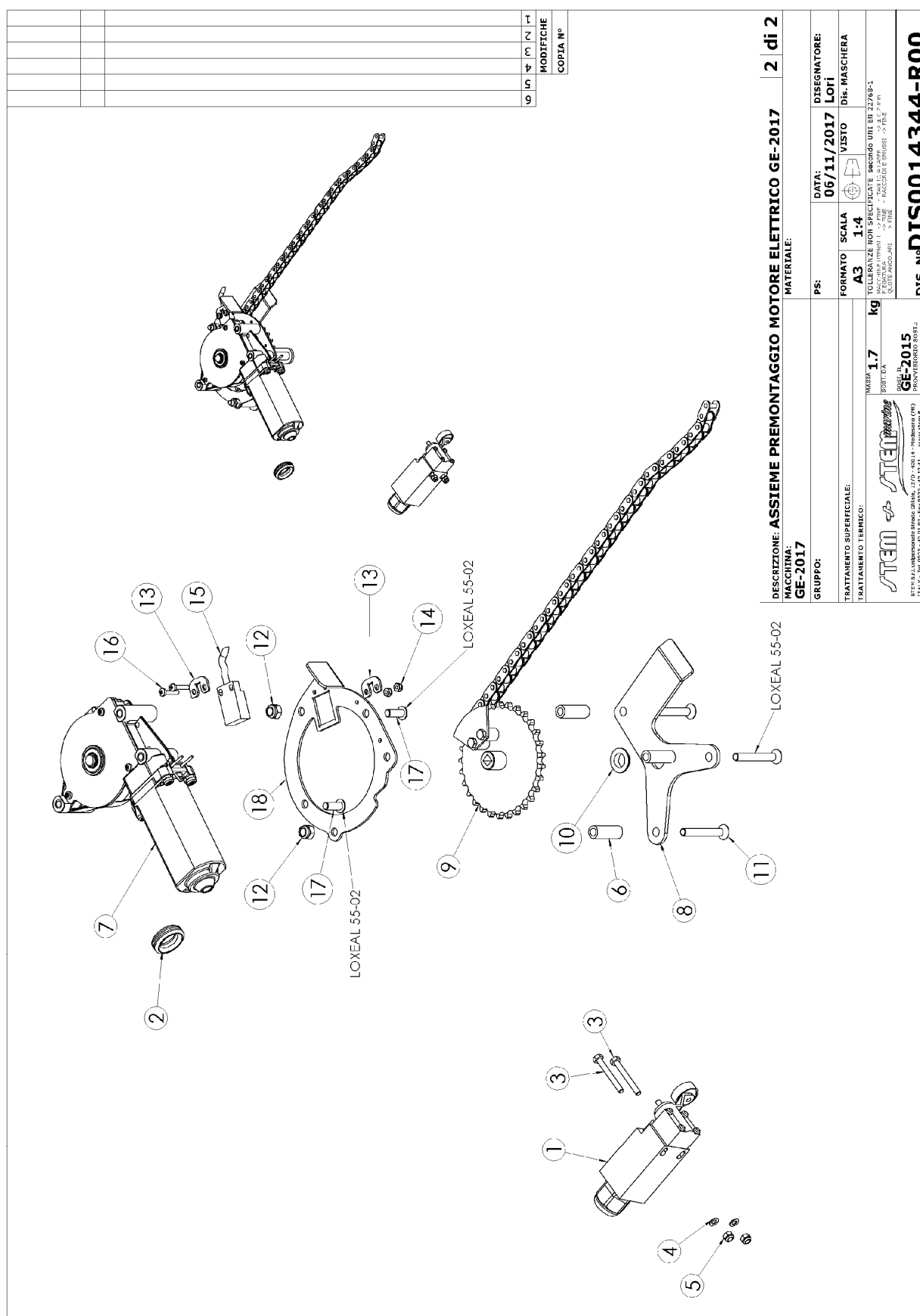



Use original spare parts only. The replacement of broken or worn original parts with poor quality or self-manufactured parts may cause serious damage to the step users and/or to the step functioning.

[illegible]

GE-2017			
POS.	CODE	DESCRIPTION	N°
1	DIS0014044-R00	GE-2017 chassis	1
2	DIS0003864-R04	Mobile frame	1
3	DIS0000770-R03	Bushing	2
4	DIS0000972-R01	Bushing	4
5	DIS0007153-R00	Plate	2
6	DIS0011639-R01	Step frame	1
7	DIS0001662-R04	Safety lever	1
8	DIS0001633-R00	Plate	1
9	DIS0005365-R01	Collar	2
10	DIS0011349-R01	Step protection	1
11	DIS0011839-R00	Sticker	1
12	DIS0011350-R00	Step	1
13	DIS0011346-R01	Plastic side cover	2
14	DIS0011355-R00	Protection	1
15	DIS0011356-R00	Protection	1
16	TCEI06025I	Screw	2
17	DAAU06I	Nut	4
18	TE06016I	Screw	2
19	RO14I	Washer	1
20	COPPIGLO31	Split pin	1
21	RIVE3.906I	Rivet	6
22	OSEMICLC28	Semi collar	1
23	RIVE2.911A	Rivet	5
24	DA06I	Nut	2
25	TE06020I	Screw	5
26	ADEMATRICO	S/N sticker	1
27	MOLGA15225	Gas spring	1
28	VTBE0825I	Screw	2
29	RO08I	Washer	2
30	TPSE06010I	Screw	2
31	INSERT04	Screw insert	4
32	TPSE04035I	Screw	4
33	DIS0014350-R00	Spacer	1
34	DIS0014056-R00	GE-2017 Cover	1
35	RO06I	Washer	3
36	DIS0014344-R00	Electrical motor group	1
37	FASCETT014	Hose clamp	1

5.2.2 ELECTRICAL MOTOR GROUP – DIS0014344

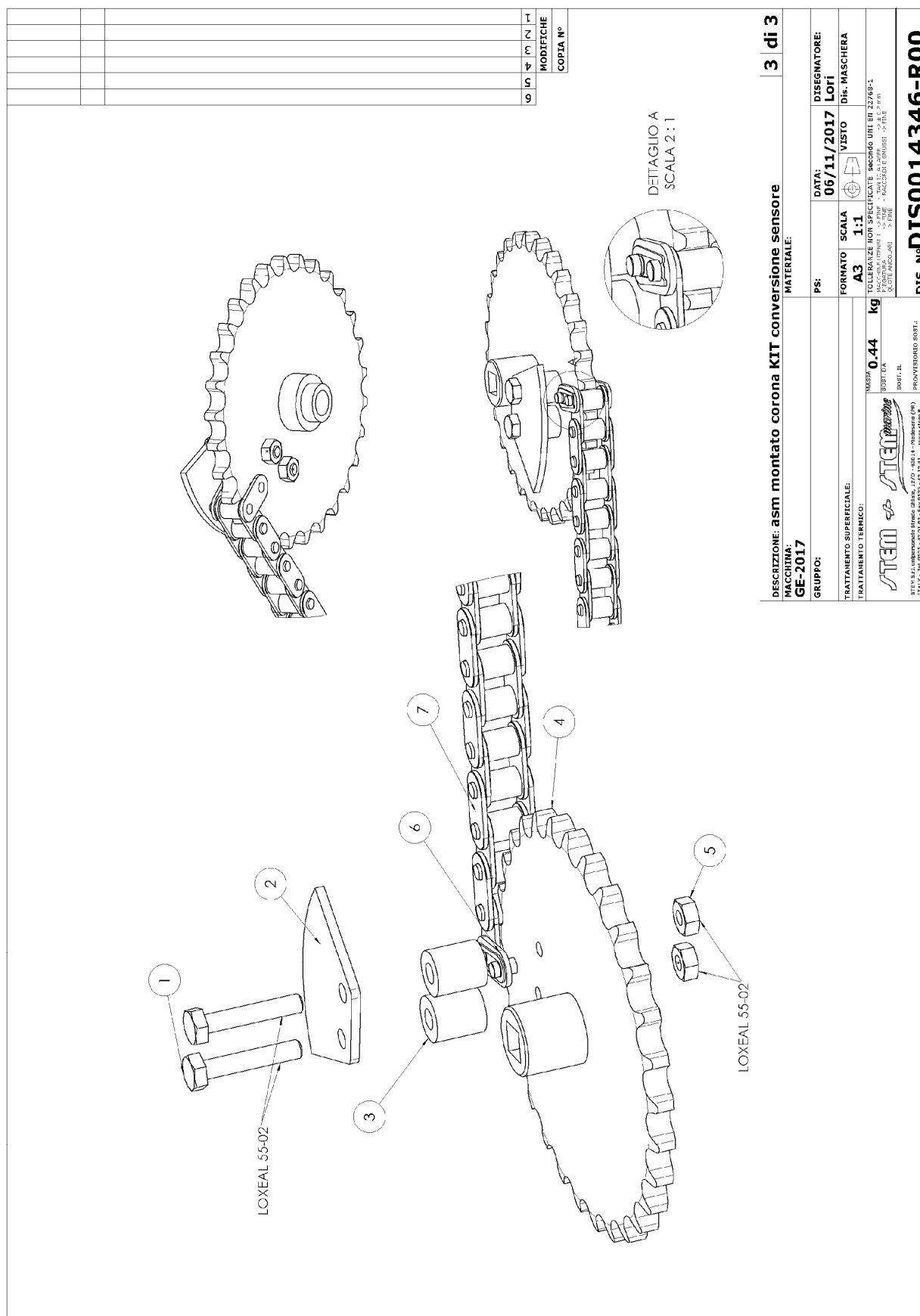


DESCRIZIONE: ASSIEME PREMONTAGGIO MOTORE ELETTRICO GE-2017		MATERIALE:		2 di 2	
MACCHINA: GE-2017		PS:		DATA: 06/11/2017	
GRUPPO:		FORMATO: A3		DISEGNATORE: Lofr	
TRATTAMENTO SUPERFICIALE:		SCALA: 1:4		VISTO: Dis. MASCHERA	
TRATTAMENTO TERMICO:		MATERIA: 1.7 kg		TOLLERANZE NON SPECIFICATE INCHIOCHI UNI EN 22788-1	
 STEM S.p.A. - Via S. Maria 10 - 20139 Milano (MI) - Italia Tel. 02 58 58 58 58 - Fax 02 58 58 58 58 E-mail: info@stem.it - www.stem.it		TOLLERANZE NON SPECIFICATE INCHIOCHI UNI EN 22788-1 TOLLERANZE NON SPECIFICATE INCHIOCHI UNI EN 22788-1 TOLLERANZE NON SPECIFICATE INCHIOCHI UNI EN 22788-1		TOLLERANZE NON SPECIFICATE INCHIOCHI UNI EN 22788-1 TOLLERANZE NON SPECIFICATE INCHIOCHI UNI EN 22788-1 TOLLERANZE NON SPECIFICATE INCHIOCHI UNI EN 22788-1	
DIS. N° DIS0014344-R00 GE-2015 PROVENIENDO DALLA:		DIS. N° DIS0014344-R00 GE-2015 PROVENIENDO DALLA:		DIS. N° DIS0014344-R00 GE-2015 PROVENIENDO DALLA:	

QUESTO DISEGNO E' DI PROPRIETA' DELLA STEM S.p.A. UNIPERSONALE CHE SE NE RISERVA I DIRITTI SANCITI DALLA LEGGE

DIS0014344			
POS.	CODICE	DESCRIZIONE	N°
1	EFINCPASSAGX3	End stroke	1
2	EPASCAV302	Seal cable	1
3	TE04035I	Screw	2
4	RO04I	Washer	2
5	DAAUBA04I	Nut	2
6	DIS0014345-R00	Spacer	3
7	EMUM203A10SS	Electric motor	1
8	DIS0014054-R00	Flange	1
9	DIS0014346-R00	Gear group	1
10	BOCGFM121405	Bushing	1
11	TPSE06045I	Screw	3
12	DAAU06I	Nut	2
13	DIS0013647-R00	Spacer	2
14	DAAUBA03I	Nut	2
15	SEN-W5MC1	Sensor	1
16	TCI03016I	Screw	2
17	VTBE0616I	Screw	2
18	DIS0014055-R01	Sensor support	1

5.2.3 GEAR GROUP – DIS0014346



DIS0014346			
POS.	CODE	DESCRIPTION	N°
1	DIS0014347-R00	Gear	1
2	TE04022I	Screw	2
3	DA04I	Nut	2
4	GIUCASS121I	Chain	2
5	DIS0009303-R00	Chain	1
6	DIS0013639-R00	Cam	1
7	DIS0014349-R00	Cam support	2

6 DISMANTLING AND DISPOSAL

6.1 PUTTING OUT OF SERVICE AND DISMANTLING

At the end of its useful life the step has to be put out of service.
Generic technical personnel (with suitable training) can carry out this operation.



The step identification plate must be destroyed. It is absolutely prohibited to use such plate for other steps, even if identical.

6.2 SELECTIVE SEPARATION OF MATERIALS

The materials listed below have to be separated and stored to be recovered or disposed in full compliance with environment rules in force.

MATERIAL	COMPONENTS
Aluminum	Anti-slip footboard
Common steel (painted, galvanized and chromium-plated)	Pins, frames, and bolts and nuts
Plastic and rubber	Buffers, bushings, and casings
Copper	Electrical cables, electrical motor coils
Stainless steel	Bolts and nuts

6.3 DISPOSAL

All these materials must be disposed according to the regulations in force in the country where the demolition takes place. For proper disposal, use specialized and authorized services in the collection of different materials or contact the competent authorities to inquire about the places and methods.



Never dispose in the environment

7 REVISION

REVISION	DATE	STEP REVIEW
171108	08/11/2017	GE-2017-R00
171227	27/12/2017	GE-2017-R01
180108	08/01/2018	GE-2017-R02
180222	22/02/2018	GE-2017-R02
180301	01/03/2018	GE-2017-R02

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