

INSTRUCTION MANUAL

DIGIT POWER

SMART LXT



DIGIT POWER SMART LXT



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1.SAFETY STANDARDS



It is necessary to read the manual herein, to correctly carry out the information it contains, to use the equipment in conformity with the manufacturer's instruction and in conformity with current accident prevention regulations to avoid accidents and serious injuries both to operators and third parties, as well as damage to the equipment.



It is mandatory to inform in advance all personnel operating on the equipment on the contents of the manual herein, especially the chapters related to safety provisions, use and maintenance.

This instruction manual is addressed to all personnel concerned in the handling, operation, maintenance and cleaning of the equipment, and is part and parcel of the same, it is therefore necessary to preserve it for future reference and when ordering spare parts.

The manufacturing company reserves the right to modify the manual herein at any time, with no obligation to update previous machinery and manuals.

Contact you retailer for any question concerning the equipment.

GENERAL REMARKS AND INSTRUCTIONS



INTENDED USE

The equipment described in the manual herein is intended, in conformity with design specifications, solely for packing purposes using plastic straps, every other use is forbidden.

The equipment must be used, serviced and cleaned only by adequately trained personnel, that must have read the manual herein; the non compliance of its provisions, the forbidden or incorrect use of the equipment and lack of maintenance precludes the manufacturer from any liability and rendering the guarantee terms null and void.

Any defect, malfunction, or wear of the equipment must be promptly notified to the manager by the operator in charge of the equipment; never use equipment that shows clear signs of damage or wear.

OPERATORS' SAFETY EQUIPMENT



Pay attention to those parts that may cause injuries, such as cuts, abrasions or crushing, also in relation with the product to be packaged; to this purpose it is necessary to wear protection goggles or masks to protect the eyes and/or face as well as safety gloves, when using the strapping tool under tension.

WORK ENVIRONMENT

The work place must be kept tidy and clean for safety purposes.

Use the equipment in a stable position, checking that the equipment itself cannot injure anyone even if it falls, we suggest to block it in position with the hook intended for this purpose.

This equipment has been designed to be used with environmental temperatures between +5 C° +45 C°, it is on any account advisable to avoid very damp locations, and when used outdoors avoid exposure to rain.

Do not use in places where there is danger of fire or explosion.

SAFE USE OF THE STRAPPING TOOL



It is forbidden to lift, hang or pull the packaging using the straps, the non compliance with this provision may result in serious risks for persons or damages to equipment.

When unrolling strap use the device intended for this purpose; always rewind any excess strap. Do not scatter pieces of unused strap in the work place.

Remember that tensioned straps may be only cut with special shears, avoid to use tools that are not adequate; keep at a safe distance from the strap to be cut, and verify that no other person is near the risk area, cut straps tend to snap backwards.

Serious injuries and damages to equipment may result if the equipment is not correctly used, if the strap is over tensioned and/or if non adequate straps are used, in relation with the product to be packaged (sharp edges, high temperatures, etc.), due to sudden sagging or breakage of the straps.

The operator in charge of strapping is responsible for the quality of the same, it is therefore advisable to specially train personnel in relation with the evaluation and control criteria of the **sealing** and of the adjustments to be done to optimize it, listed in the following chapters.

Defective seals will not guarantee safety conditions during handling of goods, and may cause serious injuries to persons and/or damages to equipment if they sag. Do not handle packaged goods with doubtful or defective seals.

MACHINE MAINTENANCE



Disconnect the battery before carrying out any intervention on the machine.

It is strictly forbidden to modify the machine or to remove the safety protections installed. Maintenance or repair work, as well as the normal substitution of worn parts and cleaning operations. This must be carried out by personnel duly qualified by authorized distribution outlets and service centers.

INSTRUCTION FOR THE BATTERIES



Depleted or defective batteries must be disposed of in conformity with current law provisions, they must not be discarded in the environment.

It must be remembered that the batteries must be kept with care, the poles must be protected with their cap to avoid short circuits, they must be kept in a dry place, protected from frost and humidity, and must not be exposed to temperatures exceeding 50°C.

They must not be over charged, and in the event of defects or breakages of the body, they must be immediately substituted and not re-charged. Do not try to open the batteries.

Further information is supplied in the enclosed instructions from the battery manufacturer.

INSTRUCTION FOR THE BATTERY CHARGER



Before using the battery charger, make sure that the plug and the cable are not damaged, if necessary replace them. Also ensure that the battery housing is clean and the contacts are not damaged.

Always protect the charger from humidity, blows and temperatures exceeding 50°C and from frost.

Further information is supplied in the enclosed instructions from the batteries manufacturer.

2. TECHNICAL DATA

DESCRIPTION

The equipment described in the manual herein is intended to strap packaging with plastic straps using a vibration welding system. The strap must be manually positioned around the goods to be packaged with care, it must then be positioned in the machine, tensioned and sealed by welding, and at the same time cut and separated from the rest of the strap.

DIMENSIONS AND CHARACTERISTICS WITH INSTALLED BATTERY (standard configuration without accessories)

	<i>DIGIT POWER</i>	<i>SMART LXT</i>
Length	mm 350	
Width	mm 130	
Height	mm 165	
Strap quality	PP / PET	
Sealing type	VIBRATION	
Welding efficiency	75-85% OF BREAKAGE LOAD OF THE USED STRAP	
Neck type	ROUND PACKAGE (minimum diameter 700 mm)	
Strap width	16 - 19 mm.	10 - 13 - 16 - 19 mm.
Strap thickness	0.8 - 1.27 mm.	0.5 - 1.05 mm.
Max tension	3.400 N/347 Kg.	2.300 N/235 Kg.
Max tension speed	13 mt/min	12 mt/min
Cycles per load	80-240	
Reload time	22 min.	
Batteriy	Makita 14.4 VDC / 3.0 Ah - Li-ion	
Charger	Battery charger Makita 14.4 VDC power supply 220-240V	
Weight (including battery)	Kg. 3.9	Kg. 3.8

MODEL TABLE

Model	Code	Strap width
DIGIT POWER	C126.990.810Z	16 - 19 mm.

Model	Code	Strap width
SMART LXT	C127.990.810Z	10 - 19 mm.

3. ACCESSORIES



Only use original accessories listed in this manual.

BATTERIES

Spare batteries with the following codes are available:

Type Li-ion 14.4 VDC 3.0 Ah (220-240 V) code 521009920.

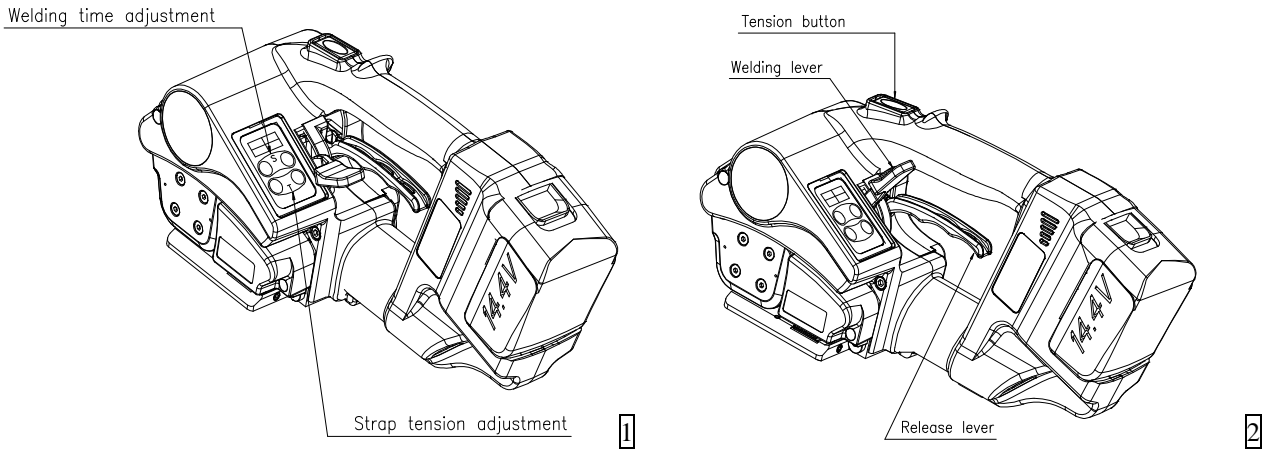
For information regarding the characteristics, the operating procedures and maintenance, please refer to the instructions attached to the product by the manufacturer.

BATTERY CHARGER

The battery charger is not supplied with the machine, it must be specifically ordered referring to the following codes:
Battery charger code **C521009930Z**

For information regarding the characteristics, the operating procedures and maintenance, please refer to the instructions attached to the product by the manufacturer

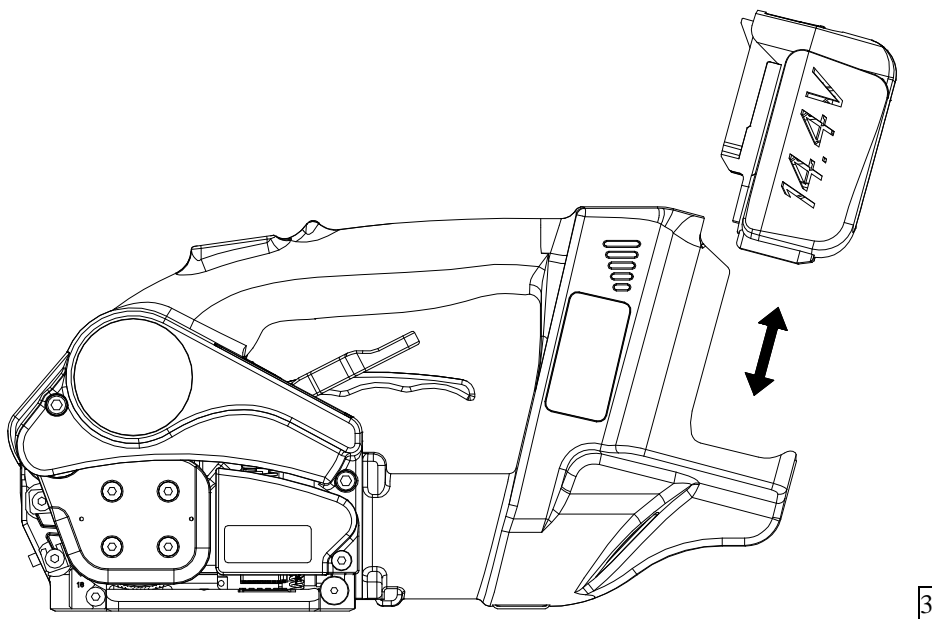
4. MACHINE COMPOSITION



5. MACHINE INSTALLATION

The battery is supplied discharged.

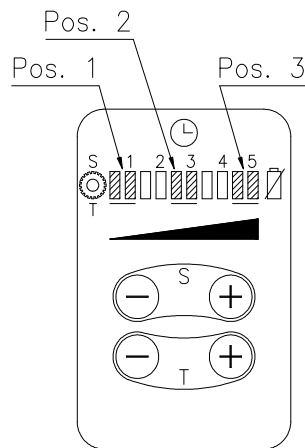
The battery must be positioned in its housing at the end of the handle until it fits perfectly in the blocks (pict. 3).





Only use straps which are in perfect conditions.

DISPLAY INDICATING	
Pos. 1	Machine ready to tension strap
Pos. 2	Strap cooling after welding.
Pos. 3	Battery down (fix lamp) Card overheating (flasher lamp)



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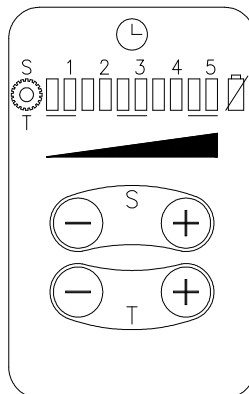
6. OPERATING INSTRUCTIONS

STARTING TOOL

- When the battery is correctly positioned press the button down to switch on the tool.

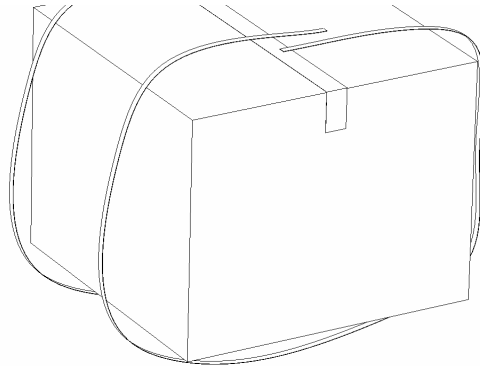
WELDING AND TENSION ADJUSTMENT

To adjust the welding time push and hold the keypad “S” + button down for 5 seconds. This will put the tool into “program function”. Afterward push (+ or -) to increase or decrease welding time or strap tension (pict.5). The programming card will automatically record the new values after 10 seconds.



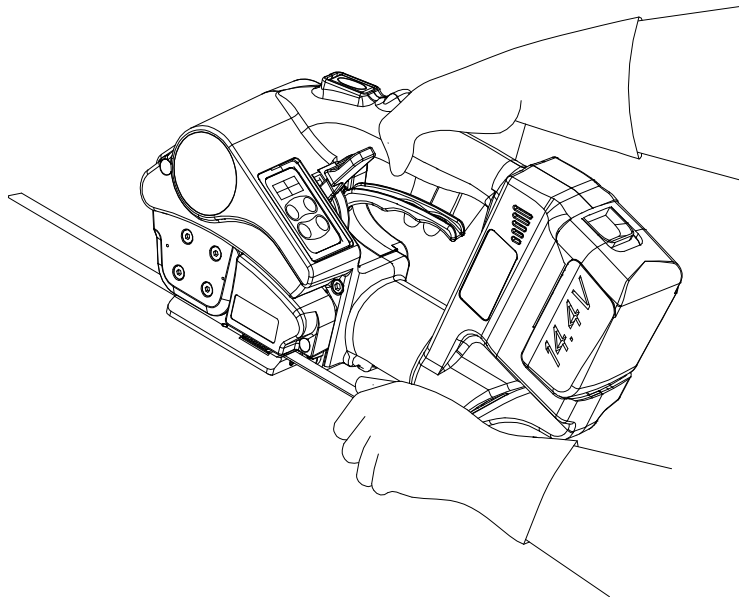
5

- Position the strap around the package (pict. 6).



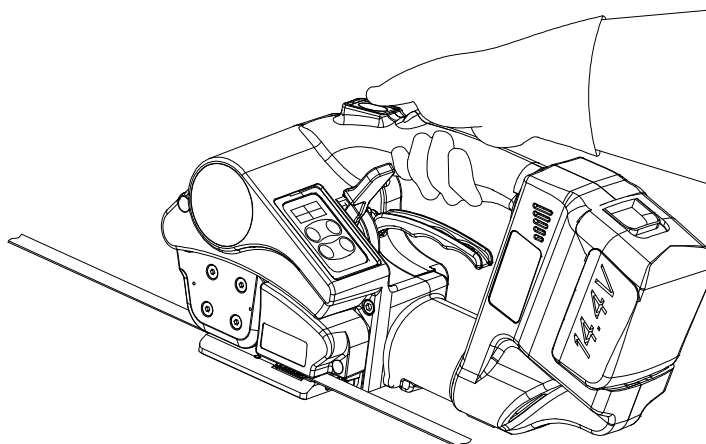
6

- Squeeze the release lever with the right hand to open the machine and position with the left hand two straps together, perfectly aligned. Release the lever. The guides will keep the straps aligned (pict . 7).



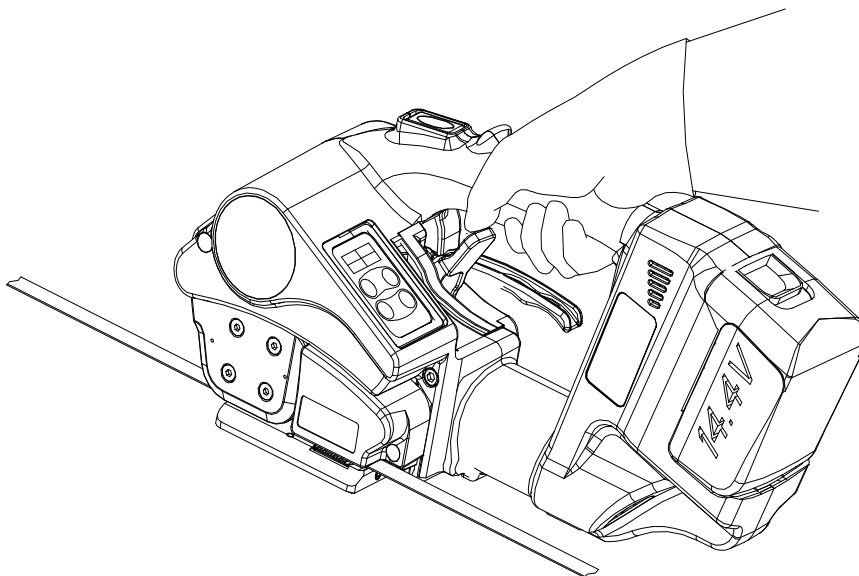
7

- Push the tension button until the programmed tension is reached (tension motor will stop) (pict . 8).



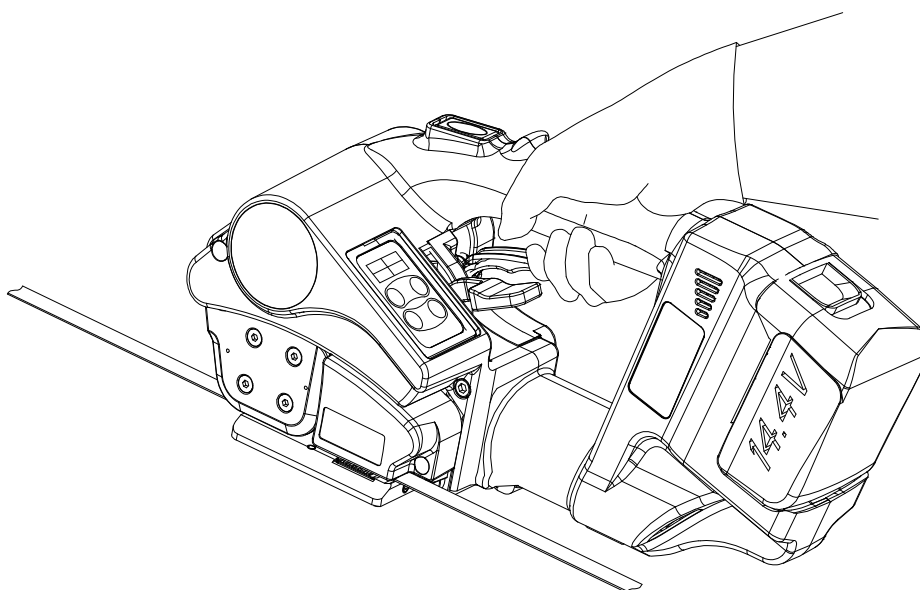
8

- Lower the lever in order to execute the cycle of welding, cut and cooling of the strap (pict . 9).
- An acoustic signal will be transmitted at the end of the process.



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- Lift up the release lever and remove the tool (pict. 10).



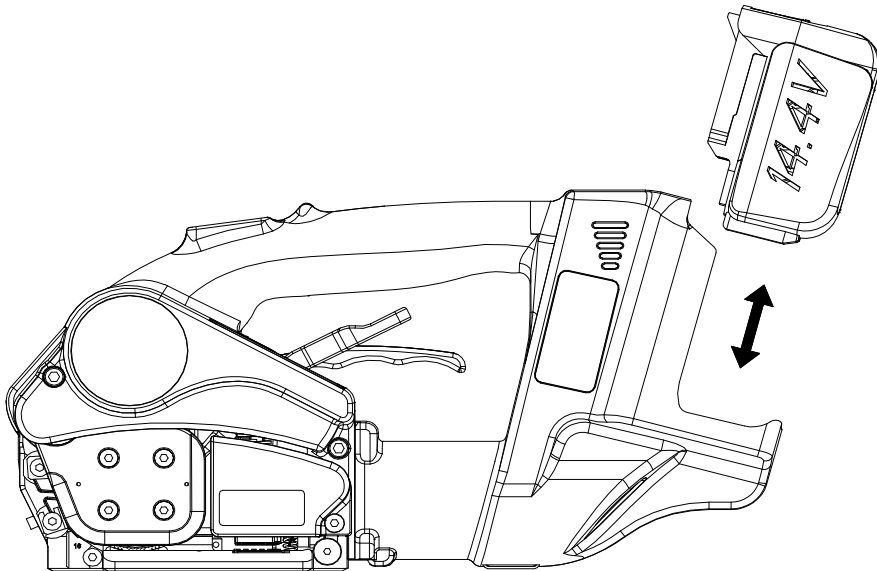
10



When the battery has an insufficient charge for proper machine operation, the red signalling fix lamp in the right side of the display will illuminate and all functions will lock.

To remove the battery, press the release button and pull out; replace with a fully charged battery (pict . 11).

Any insufficient seal or weld is to be considered not adequate and must be discarded.



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7. CHECKING THE WELDING

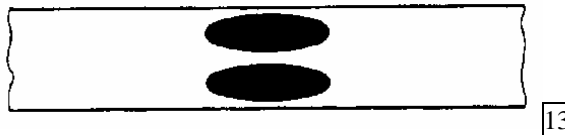
A visual inspection of the sealing area is sufficient to check the sealing quality. For inspection, you can also peel back the weld strap and examine the weld:

- **Correct sealing:** The sealing must be welded across the entire width of the strap and for a length of approximately 25 mm. Small quantities of plastic material may escape from the welding area. (pict. 12).



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- **Short welding time:** the plastic straps are not welded across their entire width. If the sealing is not sufficient, discard the strap, increase the welding time and repeat the process. (pict. 13).



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- **Long welding time:** the material is overheated and escapes from the sides of the welding area. If the sealing is inadequate, discard the strap, reduce the welding time and repeat the process. (pict. 14).



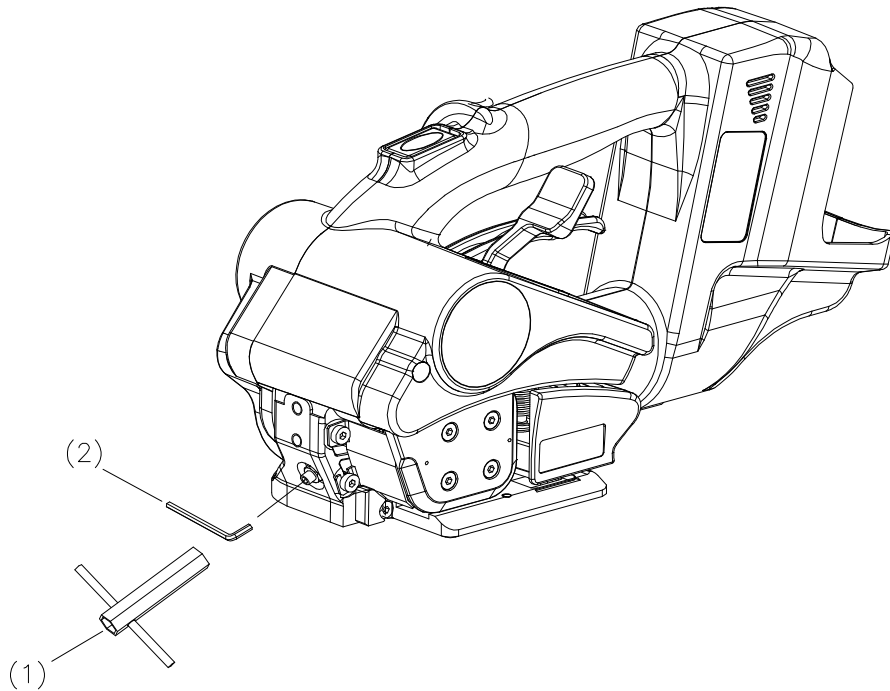
14

FEEDWHEEL HIGHT ADJUSTMENT

Loosen the nut (516002250) with socket wrench for size 10. (1).

Regulate the height of the feedwheel unfasten the screw code 515009790 with allen wrench for size 2.5 (2).

Adjusted the height of the feedwheel fasten the nut (516002250) with a socket wrench size 10. (1).



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8. MAINTENANCE AND REPAIR

NOTE: all cleaning operations must be carried out with the battery disconnected from the machine.



Maintenance and repairs must be carried out only by trained personnel. If necessary send the strapping tool, using original packaging, to the nearest service center.

CLEANING



Use compressed air to eliminate possible residuals of strap from the feedwheel and from the welding group. It is not necessary to open the machine.

REPLACEMENT OF WORN PARTS

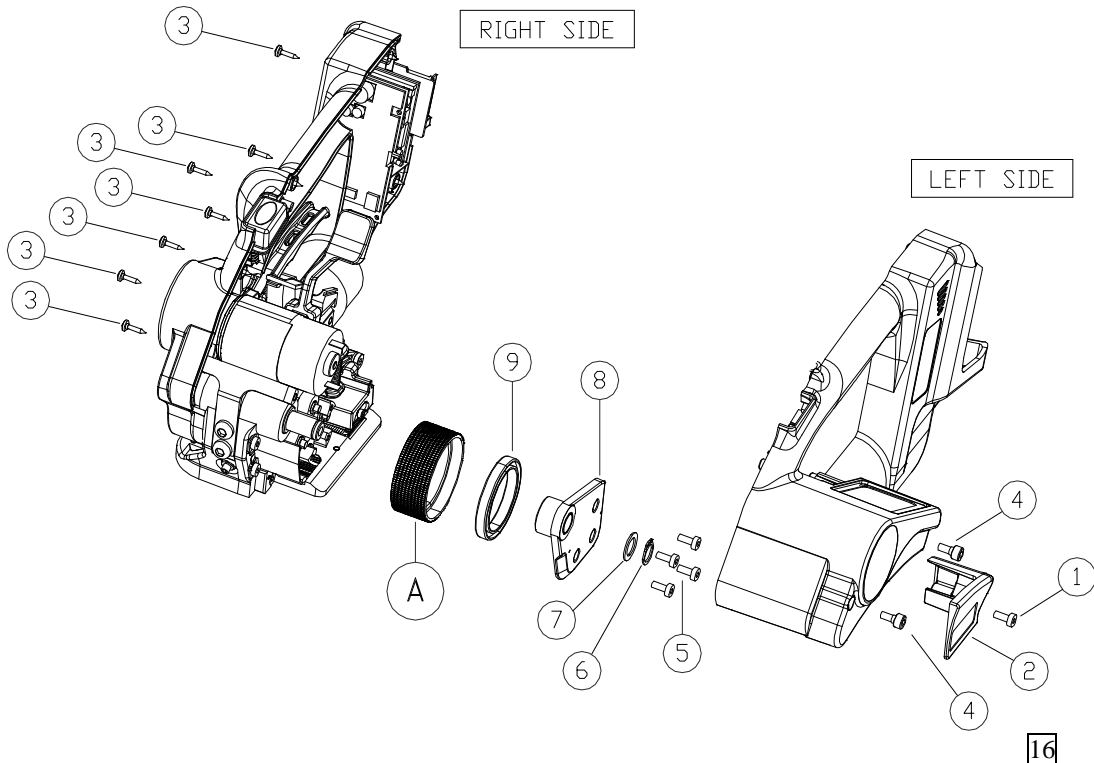


NOTE: When servicing the tool you must first remove the battery.

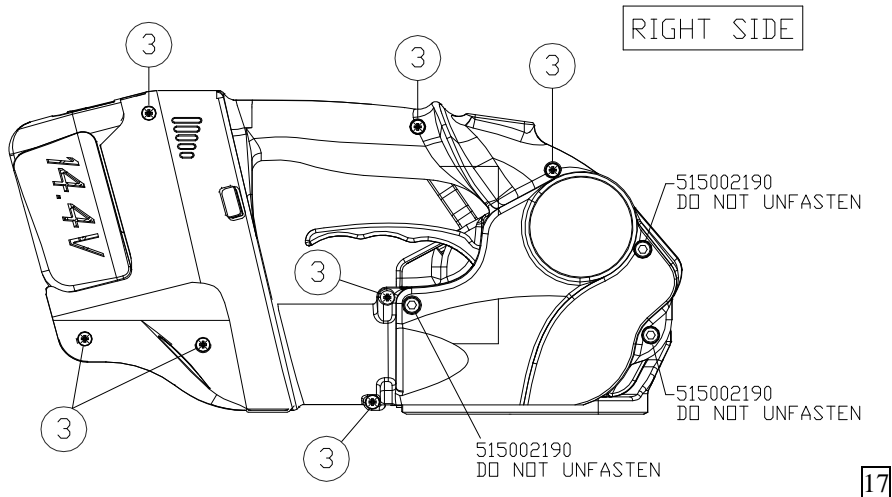
Feedwheel replacement

- Unfasten the fixing cover screw “1” of the left side of the tool and remove the cover “2”
- Unfasten the fixing cover screws of the right side of the tool (n°7 “3”).
- Unfasten the fixing cover screws of the left side of the tool (n°2 “4”) and open the tool.
- Unfasten no.4 screws “5”, remove the clip “6”, remove the spacer “7”, remove the roller clamp and the bearing “8-9” and replace the feedwheel “A”.

TAKE CARE TO THE WIRING.



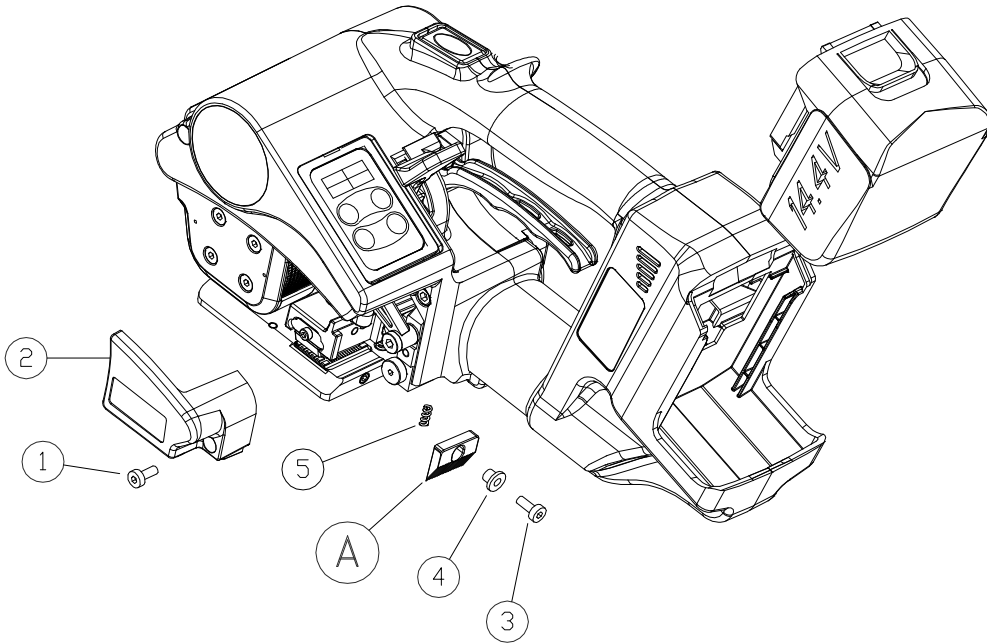
Attention: DO NOT unfasten screws code 515002190 in the right side of the tool.



To reassemble the machine repeat the operations described in reverse order.

Cutter replacement

- Unscrew the screw “1” and remove the smart welding cover “2”
- Unscrew the screw “3”, remove the cutter guide space “4” and replace cutter “A”.
- Take care the spring in the position “5”

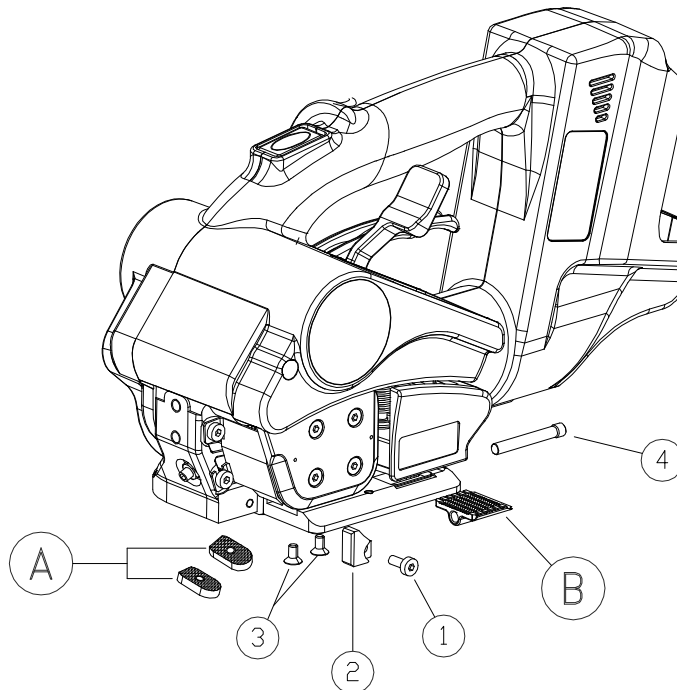


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NOTE: Disconnect battery before servicing machine!

Replace feedwheel plate and moving sealing plate

- To replace the feedwheel plate unfasten the screw “1”, remove the head guide “2”, unfasten the two screws “3”, and insert new grippers “A”
- To replace the moving sealing plate unfasten the screw “4”, remove the old plate and replace it with a new “B”.

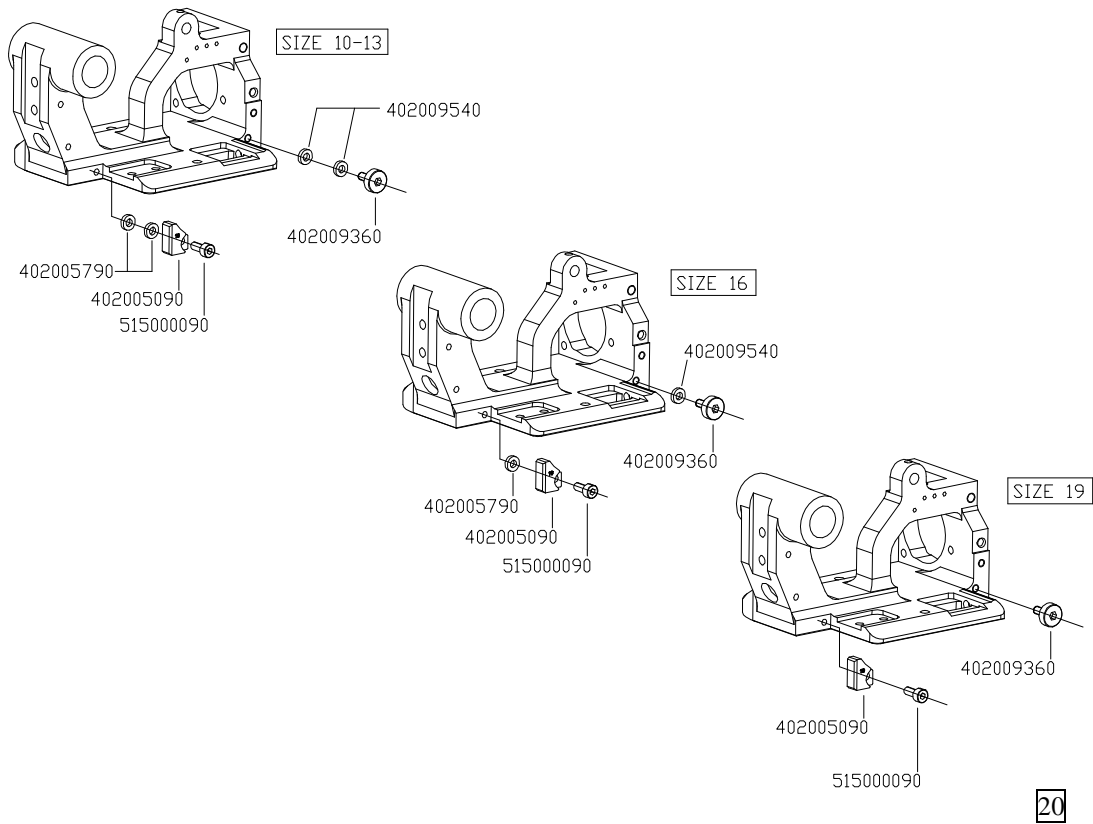


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To reassemble the machine repeat the operations described in reverse order.

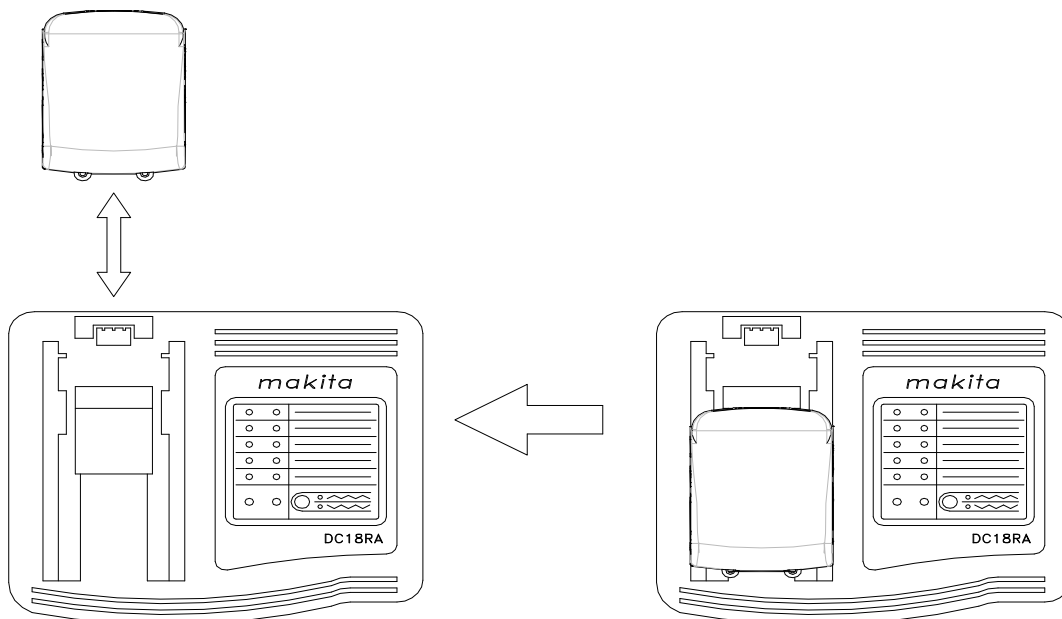
GUIDE STRAP SET-UP

- To obtain the strap sizes you need follow the indications (pict. 20).
No. 1 guide strap spacer code 402005790 and no.1 spacer code 402009540 are in equipment inside the box.



TO CHARGE THE BATTERY

To charge the battery, insert it in the right position in the battery charger housing.



9. GUARANTEE

Every machine supplied by our company is guaranteed for a period of 12 months starting from the date of dispatch stated on the accompanying note.

During the whole guarantee period, our company will replace free of charge, all the parts proved to be defective by reason of faulty workmanship or materials, and which may compromise the normal machine usage. The decision of our service technicians on all the matters relating to complaints shall be final. Any control of defects and their origin will be carried out in our workshop at the following address:

Via della Repubblica, 44 – 20020 SOLARO (Mi) Italia

Parts to be repaired or replaced have to be forwarded to our address at the care, charge and risk of the customer; the return forwarding will take place at the same conditions. We suggest to use the original packaging for shipping.

The guarantee does not cover the equipment whenever our technicians observe that the defects are due to lack of maintenance and/or misuse, which is not in compliance with our instructions.

Our guarantee shall not apply to all parts subject to normal usage wear (refer to basic list).

NOTE: Columbia will not undertake any intervention on machines whose serial number, engraved during manufacture and quoted on the sales document provided, has been intentionally modified or removed.

**DICHIARAZIONE CE DI CONFORMITA'
CE CONFORMITY CERTIFICATE
CERTIFICATION DE CONFORMITÉ**

LA DITTA
THE COMPANY
LA SOCIÉTÉ

COLUMBIA srl

AI SENSI DELLE DIRETTIVE **CEE 98/37** e **CEE 89/336**, dichiara sotto la propria responsabilita' che la macchina:
ACCORDING TO DIRECTIVES **CEE 98/37** and **CEE 89/336**, declares under its responsibility that appliance :
AUX TERMES DE LES DIRECTIVES **CEE 98/37** et **CEE 89/336**, déclare, sous sa propre responsabilité, que la:

**REGGIATRICE ELETTRICA A BATTERIA
BATTERY STRAPPING TOOL
OUTIL A BATERIE**

MODELLO - MODEL - MODELE:.....**DIGIT POWER / SMART LXT**.....

NUMERO MATRICOLA - SERIAL NUMBER - NO. DE SERIE:

ANNO DI COSTRUZIONE - YEAR OF PRODUCTION - ANNEE DE CONSTRUCTION:.....**20**.....

e' conforme ai requisiti essenziali di sicurezza e di tutela della salute richiesti dalle direttive **CEE 98/37** e **CEE 89/336** e loro successive modificazioni, nonche' ai requisiti di cui alle seguenti direttive:
conforms to the essential safety requirements and accident prevention, as requested by **CEE 98/37** and **CEE 89/336** Directives and further modifications, as well as to standards given by the following directives :
est conforme aux dispositions essentielles de sécurité et de prévention des accidents prévues par les directives **CEE 98/37** et **CEE 89/336** et successives modifications, autant que aux conditions dont les directives suivantes:

EN 292-1, EN 292-2, EN 349, EN 1050, EN 50081-2, EN 50082-2, EN 55022, EN 50081-1

La reggitrice e' conforme ai requisiti essenziali di compatibilità elettromagnetica **EMC**, nonche' ai requisiti di cui alle seguenti direttive: **EN 61000 - 6 - 2 ; EN 61000 - 6 - 3**
The tool conforms to the essential electromagnetic compatibility requirements **EMC**, as well as to standards given by the following directives: **EN 61000 - 6 - 2 ; EN 61000 - 6 - 3**
Outil est conforme aux dispositions essentielles de compatibilité électromagnétique **EMC**, autant que aux conditions dont les directives suivantes: **EN 61000 - 6 - 2 ; EN 61000 - 6 - 3**

La reggiatrice e' conforme ai requisiti essenziali di compatibilità vibro acustica **CEI EN 50144 - 1**
The tool conforms to the essential vibration and acoustics requirements **CEI EN 50144 - 1**
Outil est conforme aux dispositions essentielles de compatibilité vibration et acoustique **CEI EN 50144 - 1**

L' AMMINISTRATORE :
THE MANAGING DIRECTOR :
L' ADMINISTRATEUR :

