

INSTRUCTION MANUAL CARTRIDGE OPERATED HAND-HELD FIXING TOOL

(translation of the original instructions in English)

BOSS 4000

Technical Assistance:

Bossong S.p.A.
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Dealer :



EC DECLARATION OF CONFORMITY

we declare that the machinery

BOSS 4000

Cartridge operated hand-held fixing tools to fixing metal nails in the concrete and steel
in single shoot version

Serial Number:

Placed on the market by

Bossong S.p.A.
Via Enrico Fermi – 49/51
24050 Grassobbio - Italy

fulfils all relevant provisions of the directive 2006/42/EC.

Notified body which carried out the EC
type-examination referred to in Annex IX:

NB 2223
Banc National d'Epreuve
5 rue de Méons – BP 147 – ZI Molina Nord
42004 Saint-Etienne - France
number of the EC type-examination certificate
2223/5491/780/06/12/0017
Harmonized Standard Used:
EN 15895

**According to EN 15895 statement, the vibration total value to which the hand-arm system is
subjected does not exceed 2,5 m/s²**

Airborne noise emissions:

- $L_{pA,1s,0} = 99 \pm 2$ dB (A)
- $L_{pC,peak} = 130 \pm 6$ dB (C)
- $L_{WA,1s} = 108 \pm 3$ dB (A)

Determined according to EN 15895 annex D with .27 caliber RED cartridges and KR75 nails.

Grassobbio, date 26.09.2012

Mr Andrea Taddei
General Manager
Bossong S.p.a.



Banc National d'Epreuve
Saint-Etienne

In implementation of directive 2006/42/EC of the European Parliament and of the Council of 17 may 2006 on machinery, and amending Directive 95/16/EC and decree n° 2008-1156 of 7 november 2008 transposing this directive into French law,

the BANC NATIONAL d'EPREUVE DES ARMES ET DES MUNITIONS
5 rue de Méons – ZI Molina Nord – BP 147
42004 SAINT-ETIENNE CEDEX 1 - FRANCE,

Authorized by the decree of the French Ministry of Labour, Social Relations, Family, Solidarity and the City dated December 29, 2009,

identified under number 2223,

issues

the EC TYPE-EXAMINATION CERTIFICATE

number 2223/5491/780/06/12/0017

to the machine model as follows:

- Name : Cartridge Operated Hand-held Fixing Tool
- Type : BOSS 4000
- Considered accessories : None
- Manufacturer : Bossong S.p.A
- Certificate's Applicant : BOSSONG S.p.A.
Via Enrico Fermi – 49/51
I-24050 GRASSOBBIO – Italy
- Description : Tool for fixing metal nails in the concrete and steel.



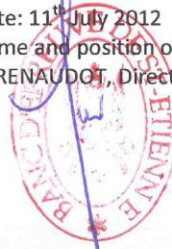
This device, after inspections and laboratory tests, is found to satisfy the essential health and safety requirements of Annex I to the Directive applicable to such equipment.

NOTE: Any change to new equipment subject to this certificate of EC type-examination must be brought to the attention of the authorized body.

It is for the manufacturer to ensure that a translation of the instructions in the official language of the country of use is provided when placing on the market.

This certificate contains 1 page (s) and is valid until the 10th July 2017.

Date: 11th July 2012
Name and position of signatory:
P. RENAUDOT, Director



BANC NATIONAL D'ÉPREUVE
UNE RÉFÉRENCE DE QUALITÉ, NOTRE ENGAGEMENT



CHAMBRE DE COMMERCE
INDUSTRIE ET SERVICES
SAINT-ETIENNE MONTBRISON



ENGLISH



READ CAREFULLY THE INSTRUCTIONS CONTAINED IN THIS GUIDE BEFORE USING THE TOOLS

BOSSONG tools must be used by adult expert personnel only, who knows well how to realize the work, as well as the safety rules, operational and maintenance instructions contained in this user's guide.

Technical assistance service offered by BOSSONG SpA can help the workers as far as the use and maintenance of the tools are concerned.



CHARACTERISTICS AND MAIN TECHNICAL SHEET

- ❖ BOSS 4000 is an indirect-acting powder actuated tool. The power developed by the cartridges drives the piston, that then fixes the nail into the work surface. The highest velocity of the fixing does not exceed 100 m/s (it is classified as Low Velocity tool, class A). The tool, once correctly placed on the work surface, can fire under the pressure of at least 0,17 kN (17 kg).
- ❖ The BOSS 4000 can be used in its single shot version.
- ❖ The BOSS 4000 tool can fix nails until 75 mm.
- ❖ Power regulator allows to use a wide range of available powers only employing the red cartridges. Please, only use cartridges 6.8x11 mm. Each cartridge strip allows to shoot up to 10 nails.
- ❖ Automatic cartridge advance system and semi-automatic reloading of piston.
- ❖ Easy assembly and maintenance, very versatile.
- ❖ Minimum recoil, low noise thanks to the interior silencer.
- ❖ High power, capacity of penetration into steel up to 10 mm, suggested minimum penetration into concrete: 27 mm.
- ❖ BOSS 4000: length: 355 mm weight: 3,15 kg



MAIN OPERATING AND SAFETY INSTRUCTIONS

- ❖ BEFORE USING THE TOOL MAKE SURE THERE ARE NO CARTRIDGES LEFT INSIDE. WHEN YOUR WORK IS FINISHED UNLOAD THE POSSIBLE CARTRIDGES AND NAILS.
- ❖ WORKERS AND ASSISTANCE PERSONNEL WILL ALWAYS HAVE TO WEAR EYE AND HEARING PROTECTION WHEN SHOOTING.
- ❖ NEVER PUT YOUR HAND OVER THE MUZZLE.
- ❖ DO NOT PULL THE TRIGGER UNTIL THE TOOL IS RIGHTLY PLACED WITH THE MUZZLE ON THE WORK SURFACE.
- ❖ DO NOT USE THE TOOL WHERE FLAMMABLE OR EXPLOSIVE VAPOURS, DUST OR SIMILAR SUBSTANCES ARE PRESENT.
- ❖ DURING TRANSPORTATION AND LOADING, THESE TOOLS WILL HAVE TO BE POSITIONED HORIZONTALLY. KEEP TOOLS POINTED IN A SAFE DIRECTION. NEVER POINT POWDER-ACTUATED TOOLS AT ANYONE.
- ❖ WHEN SHOOTING, ALWAYS USE THE SPALL SHIELD INSTALLED ON THE TOOL.
- ❖ AT THE END OF WORK PLACE THE TOOL CAREFULLY IN THE ORIGINAL BOX. USE ONLY THE ORIGINAL BOX FOR THE TRANSPORTATION.
- ❖ ONLY ORIGINAL BOSSONG CONSUMABLES, COMPONENTS AND SPARE PARTS MUST BE USED IN THE TOOL.



Wear eye protection



Wear ear protection



Wear protective gloves



WORKING

1) PRELIMINARY OPERATIONS

- ❖ Before loading nails and cartridges check that the guide moves easily and that the firing chamber or the areas where piston and nails will move during the shooting are free from any obstruction.

2) INSERTION OF NAILS

- ❖ The nails to be used with this tool are only those created for shooting; do not use common nails. The material and the treatment must be adequate to the use.
- ❖ Keep the nailer up. Insert the nail with the point down into the charger level.
- ❖ Turn forward the charger lever and push inside the nailer the nail, moving the plastic handle up to the end.



3) LOADING OF CARTRIDGES

- ❖ Only use the following types of color-coded cartridges:
caliber 6,8/11 green (min strength)

4) SHOOTING

- ❖ Once loaded, the tool is ready to shoot.
- ❖ Place the muzzle of the fastening tool against the work surface at a right angle.

caliber 6,8/11 yellow (medium strength)
caliber 6,8/11 red (max strength)

Cartridges should be protected from heat and humidity during storage.

- ❖ Insert the cartridges into the tool through the slot below it and push until they are completely inside. You should see the plastic cover of the cartridges from the slot on the upper part of the tool.
 - ❖ To eject the cartridges or simply move them inside the tool pull them from the slot on the upper part of the tool.
 - ❖ Allow only trained, competent and authorized persons to load a tool.
 - ❖ Cartridges must not be forced during the loading, or inserted using other tools.
- This kind of cartridges (FOR TECHNICAL USE ONLY) cannot be used for guns.

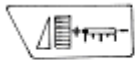
Keep it balanced. The worker should position himself behind the tool, in range with the axis of the tool guide. The assistance personnel should be behind the worker. Push the tool against the surface pressing at the same time the little lever which is behind the grip and pull the trigger.

- ❖ Please shoot only if no one is in a dangerous position around or inside the working area.
- ❖ After the shot release the tool; the worker will be aware of the fact that it will inevitably recoil
- ❖ FOR A NEW SHOT, INSERT THE NAIL AS DESCRIBED ABOVE IN THE ITEM 2 AND SHOOT AS DESCRIBED IN THE ITEM 4.
- ❖ WHEN ALL CARTRIDGES ARE OVER, REMOVE THE CARTRIDGES PLASTIC CONTAINER FROM THE UPPER HOLE OF THE TOOL, REPEAT ITEMS 1 TO 4 FOR NEW FIXINGS.
- ❖ DO NOT FIX WHEN A PRECEEDING ATTEMPT FAILED.

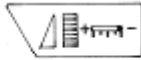


FASTENING

- ❖ Because of differences in hardness of concrete and thickness of steel, fastenings to these materials requires different strength of power.



MAXIMAL POWER



MINIMAL POWER

- ❖ Using tool you have a possibility of stepless power regulation by turning the handwheel until the resistance of required power is reached.
- ❖ The proper power selection is the matter of experience and needs a number of trial fastenings. The first test should be made with the lowest power, and then power should be increased until desired penetration is reached.
- ❖ MINIMUM CENTRE DISTANCE: nails should be fixed with a distance not less than 80 mm the one from the other in concrete. For fixing on steel the minimum distance should be at least of 20 mm.
- ❖ MINIMUM EDGE DISTANCE : When nails are fixed into concrete keep a distance of at least 80 mm. When nails are shot into steel keep an edge distance of at least 20 mm.
- ❖ MINIMUM THICKNESS OF THE BASE MATERIAL: For fixings into concrete min. 80 mm, for fixings into steel min. 4 mm.
- ❖ DO NOT FASTEN ITO STEEL THINNER THAN THE FASTENER SHANK DIAMETER.
- ❖ The fixing will be visible after the shoot.
- ❖ To eliminate spalling, a Spall Shield should be used.
- ❖ You should not use your tool to do fastenings into roof tiles, hollow bricks, glazing bricks, surface-hardened steel. It is forbidden to use the tool for fixing fragile material, even if is hard, such as cast iron, hardened steel, marble, granite, glass, ceramic material, drilled bricks, etc. NEVER DO FASTENINGS INTO PERFORATED OR BRITTLIED MATERIAL. NEVER DO FASTENINGS INTO WELDED SURFACES.
- ❖ ALWAYS POINT THE TOOL PERPENDICULAR TO THE WORK SURFACE.
- ❖ NEVER FIRE THE TOOL WITHOUT FASTENER - IT MAY DAMAGE THE TOOL.
- ❖ NEVER FIRE INTO A HOLE.

MAINTENANCE

- ❖ To replace parts of the tool, must be used only original spare parts from BOSSONG.
- ❖ Should follow each day's work or each 1000 shots.
- ❖ The tool must be checked, cleaned and oiled at the end of such day and it must be send at least once a year to the manufacturer or to an authorized technician for a general overhaul.
- ❖ **Firing no more than 200 shots per hour in order to guarantees the safety and an optimal durability of piston returner.**

TROUBLES DURING SHOOTING




- ❖ If a cartridge misfires, hold the tool against the work surface and pull the trigger again. At the case of failure to do so, keep the tool in the above position for about 30 seconds. Take the tool away from the work surface and depress it again to advance the next cartridge. Please make sure that the misfired cartridge can not be used again.
- ❖ If you hear a very low noise shooting, it means that the cartridge power has not completely burned. In this case you must disassemble the tool and clean carefully the barrel, the head of the piston and the bottom of the barrel hole.
- ❖ If the barrel assembly sticks, shake it downwards firmly. At the case of failure to do so , take away the cartridge, dismantle and clean the tool as described above.
- ❖ If you have any problem with the cartridge, please stop and call our technical service.
- ❖ If the shooting power is diminished , check the rubber returner and replace if necessary.
- ❖ If the tool does not appear to be working properly and if it cannot be unloaded, leave it in safe place and inform the « BOSSONG After Sales Service ».
- ❖ BOSSONG shall be exempted from all responsibility coming from bad and improper use of the tool, and if no attention shall be paid to the safety regulations or to the operating and maintenance instructions contained in this instruction manual.

WARRANTY

- ❖ Warranty: 1 year from the date of purchase of the Customer.

- ❖ The warranty cover only defects in material and workmanship; the warranty is valid only if the tool is operated and handled correctly, cleaned and serviced properly and in accordance with the operating instructions manual.
- ❖ Only original Bossong consumables, components and spare parts must be used in the tool.
- ❖ This warranty provides the replacement of defective parts only. Parts requiring repair or replacement as a result of normal wear and tear are not covered by this warranty. For example: pistons, guides, rubber returner, advance cartridge system , etc. are not covered by warranty.
- ❖ Warranty do not cover neither costs to repair the tool neither transport freight.
- ❖ Bossong is not obliged for damages, losses or expenses in connection with the use or inability to use the tool.
- ❖ For repair or replacement, send tool and/or parts immediately upon discovery of the defect to the address of the Bossong Distributor.

Tools and nails

	KR	GD6-12	GD8-12
Description			
BOSS 4000	X	X	X
CONCRETE	X	X	X
STEEL	KR20	GD6-12-820	GD8-12-1514

Tools

code	description
056000	BOSS 4000

code	description	nails
056005	KR 4 Pistone	KR-GD8
056020	GD6/8-4 Pistone	GD6
056022	GD6/12-4 Pistone	GD6
056024	GD6/20-4 Pistone	GD6

Accessories

code	description
000012	Oil spray
000011	Safety glasses
057199	Cleaning kit
000030	Cloth

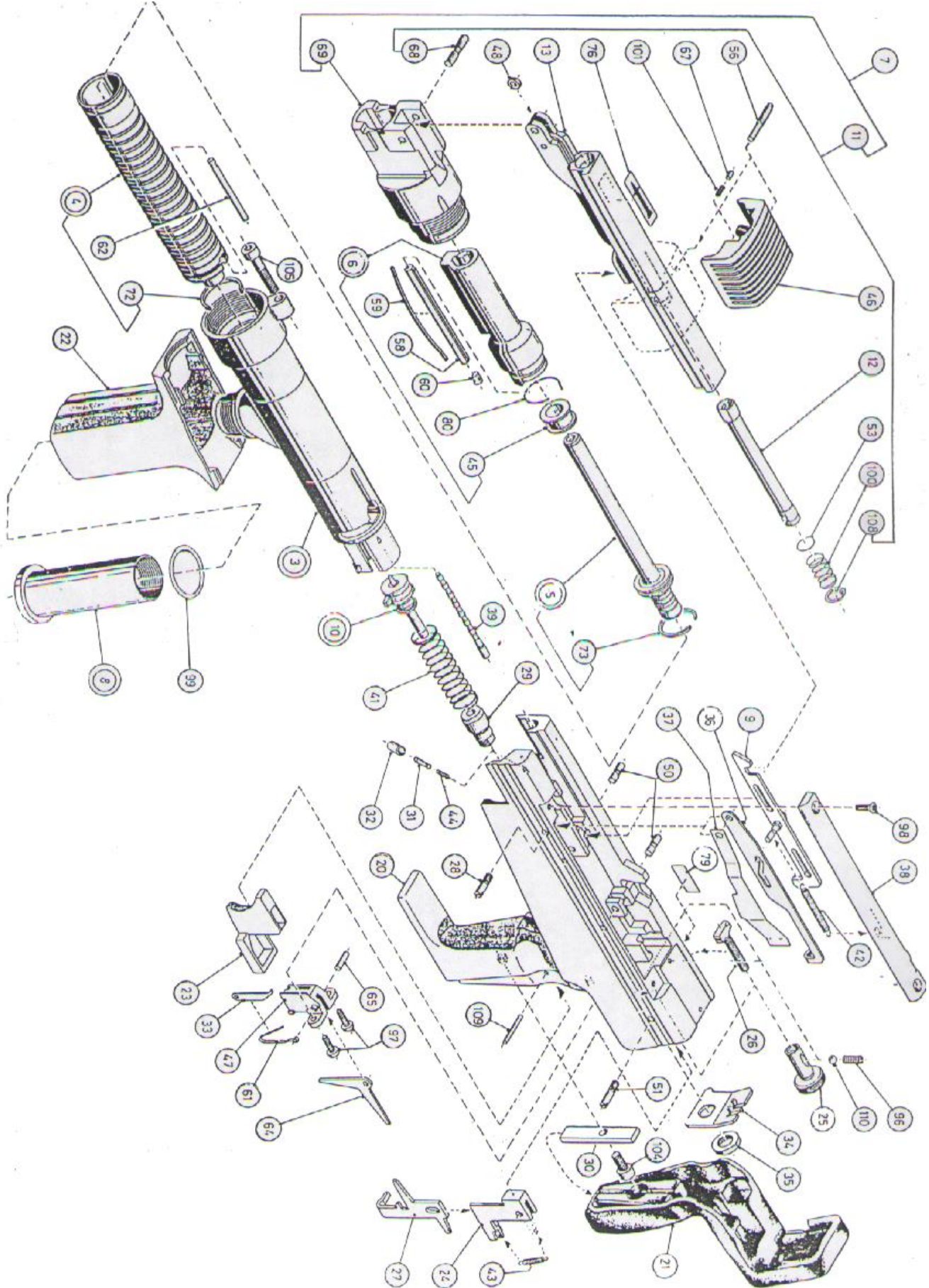
BOSS 4000	BOSS 4000
PARTS LIST	To replace parts of the tool, must be used only original spare parts from Bossong.



<u>Nr</u>	<u>DESCRIPTION</u>	<u>CODE</u>
3	BARREL GUIDE	057003
4	BARREL	057004
5	PISTON	056005
5	PISTON	056010
5	PISTON	056020
5	PISTON	056022
5	PISTON	056024
6	GROUP NAIL'S GUIDE	057006
8	NO NOISE SYSTEM ASSEM.	057008
9	TRANSPORT LEVER SPRING	057009
10	FIRING PIN RECEPTION	057010
11	GROUP LEVER SPRING	057011
12	TUBE	057012
13	LEVER SPRING	057013
20	HANDLE	057020
21	RUBBER HANDLE	057021
22	PLUG	057022
23	TRIGGER LEVER	057023
24	GUIDE LEVER FIRING PIN BARRIER	057024
25	REGULATION NUT	057025
26	SCREW	057026
27	LEVER FIRING PIN BARRIER	057027
28	SCREW	057028
29	GUIDE PIN	057029
30	STOP PIECE	057030
31		057031
32	BARREL GUIDE XXX	057032
33		057033
34	XXXX PIECE	057034
35	NUT	057035
36	TRANSPORT LEVER SPRING	057036
37	XXXXXX SPRING	057037
38	XXXXX PIECE	057038
39		057039
41	FIRING PIN SPRING	057041
42	TENTION SPRING	057042
43	FIRING PIN SPRING	057043
44	STOP SPRING	057044
45	PROTECTION	057045
46		057046
47	TRIGGER LEVER XXXXX	057047
48	LEVER RING	057048
50		057050
51	SCREW XXXX	057051
53		057053
56	SCREW XXXX	057056
58		057058
59	PIN XXXXX	057059
60	BARRIER SPRING	057060
61	STOP SPRING	057061
62		057062
64	TRIGGER LEVER	057064
65	XXX TRIGGER LEVER	057065
67		057067
68		057068
69	SAFETY BASEPLATE	057069
72		057072
73	PISTON RING	057073
76	NAIL LABEL	057076
79	REGULATION BOLT LABEL	057079
80	GUIDE RING	057080
96	XXX REGULATION NUT	057096

97	SCREW	057097
98	SCREW	057098
99	O RING	057099
100	SPRING	057100
101	SPRING	057101
104	SCREW	057104
105	SCREW	057105
108	CIRCLIP	057108
109	DOWEL PIN	057109
110	STEEL PIN	057110

BOSS 4000



ONE YEAR GARANZIA - WARRANTY- GARANTIE



Modello - Model - Model
Model - Typ :

Numero di serie - Serial number - Serienummer
Numero de serie :

Data di Acquisto - Date of Purchase - Verkaufsdatum
Date d'achat - Aankoopdatum - Købsdato :

Cliente - Customer - Kunde - Client - Klant : Indirizzo - Address - Adresse - Adresse - Adres :

Timbro Distributore - Stamp of Distributor
Stempel des Vetreibers - Timbre Distributeur
Stempel van Dealer - Forhandlers stempel:

Spedire subito a Bossong. Envoyer immédiatement à Bossong. To be mailed immediately to Bossong. Sofort zum Bossong schicken. Bij aankoop toestel direct terugsturen naar uw Bossong.