



SLAUGHTERING PISTOL MATADOR

Super Securit 3000 - axial locking system

USER GUIDE



Translation of theoriginal guide



EURL au capital de 75 000 € - RCS LE MANS B 353 710 924 SIRET 353 710 924 00039 - APE 2562B- Code TVA FR 23 353 710 924

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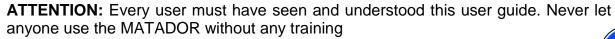
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1. SAFETY INSTRUCTIONS



Read the whole of this user guide carefully before using the tool. Keep this guide in a safe place to be able to refer to it in the future or for another user.

Safe use of the Matador requires that you read and follow every step of the security and correct use instructions.





IMPORTANT: Always wear protective glasses and hearing protection.

Never use the MATADOR in an explosive or flammable area.



NEVER aim the MATADOR at yourself or any other person.

NEVER lock for fire the MATADOR unless you are ready to use it.

NEVER move the MATADOR if it's locked. Always transport and store them "open".

When it's not in use, store the MATADOR in a safe area to ensure nobody unauthorized can use it. Never leave the MATADOR without supervision at any time, especially if there are children around.

A modified MATADOR must never be used. Check that it is working properly before the shift starts.

IMPORTANT – cartridges and spare parts are precision parts designed specifically for your MATADOR. Only use genuine parts and cartridges supplied by your authorized TERMET distributor.

Only use this pistol for its intended purpose. In the event of an accident the user will be liable if the instructions on safe and proper use have not been followed.

IMPORTANT: cartridges should be stored in a dry, ventilated and tempered area. Never use any cartridge that seems rusted, wet or that have been warmed.

IMPORTANT: always use cartridges designed for the size of animal you're working with.

ATTENTION: Always respect the maintenance instructions and to maximize gun life replace wear parts at the intervals recommended in this user guide.

IMPORTANT: The MATADOR slaughtering pistol is designed to slaughter Cattle, Bulls, Cows, Veal and Horses. Any use that is not covered in this guide is not permitted.



IMPORTANT: For Animal Welfare, at least 2 Pistols must be available at the slaughtering point at all times. For optimum gun performance the operator should alternate the pistol used for each shot, this allows them to cool between firings. Always respect the maximum rate of use that is recommended in this guide.

2. NOISE AND VIBRATIONS

Information about noise emissions, as written in the EC Machinery Directive 2006/42/CE notice:

- SPL (sound pressure level) A at point of operation: $L_{pA, 1s, 0} = 103 \pm 3 \text{ dB}$
- Maximum value of SPL (sound pressure level) C at point of operation:
 L_{pCpeak} = 133 ± 3 dB
- Level of acoustic power A of the machine:
 L_{WA. 1s} = 107 ± 3 dB
- Conditions of measure: The machine is operated on a plastic bloc (100mm wide) 60±5 Shore A hardness with red cartridges. Number and position of measure points are directed by EN 15895 and EN 12549.



Noise emission exceeds the exposure, consequently, the operator must use hearing protection when operating the Matador.

Information about vibration:

• EN 15895 establishes, for the fixing machine with explosive cartridge, the total value of vibration maximum accepted by the hand or arm of the operator is 2.5m/s². By analogy, same value applies to the MATADOR.

NOTE: The shock generated by the explosion of the cartridge is not considered as a vibration.

Information about Cartridges:

MATADOR cartridges of caliber 6.3/12 are available in blue, red and black versions.

Energy released:

Black cartridges: 430 Joules ±10%
Red cartridges: 400 Joules ±10%
Blue cartridges: 360 Joules ±10%

Minimum pin stroke speed:

Black cartridges: 50 m/s
Red cartridges: 48 m/s
Blue cartridges: 45 m/s

3. DESCRIPTION

The MATADOR is a slaughtering pistol with a captive pin using explosive cartridges of caliber 6.3/12. It is used for the slaughtering of animals such as calves, sheep, horses and other animals of the same size. It is made of a gun and a handle connected by a rocking head.



When the trigger is pushed, explosion of the cartridge generates gas that pushes the pin at 50m/s (180km/h). The MATADOR is in contact with the head of the animal and the pin will penetrate the brain. The animal is immediately anesthetized and must be bled as soon as possible.



Attention: the animal is only anesthetized, so it is possible for it to wake up after some time (particularly with big animals such as bulls).

Matador Characteristics:

Dimensions: Ø60mm; length 310mm

Weight: 2.9 Kg

Punching pin diameter: 12mm

Pin stroke:

Cartridge type / Pin type	Pin 917 standard Pin 917L extende	
Black cartridges	90mm	98mm
Red cartridges	85mm	93mm

Maximum cadence recommended: 30 shots/h using red cartridges

Life length: around 40,000 shots using red cartridges Available accessories: - Tool Kit Matador

Super SecuritestMatador carry case

4. SAFETY CHECKS BEFORE USE

At start of a working day:

- Check the availability of 2 pistols (minimum) at the slaughtering station
- Check that the cartridges are genuine Matador supplied and have no traces of oil or oxidation.



Check that the punching pin is retracted in the barrel



♣ With the pistol unloaded Check the operation of the locking system. You must hear and feel the click of the locking ball. Arm and press on the trigger to check the correct operation of the percussion hammer.





- LALLWAYS FIRE PISTOL
 TOWARDS THE GROUND
- **4** ALTERNATE FIRING BETWEEN 2 PISTOLS
- **USE ON THE ANIMAL**

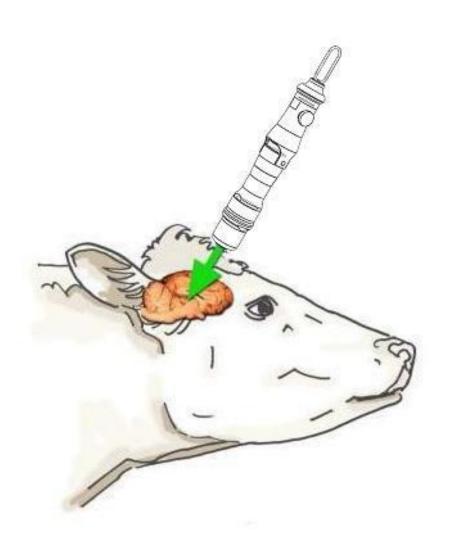


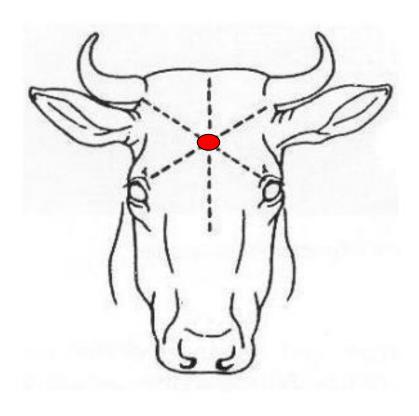
Recommendations:

- Always use a helmet, glasses and earplugs
- ♣ Read and understand the Matador user guide before use



Photocopy this page and display at the slaughtering station





Photocopy this page display at the slaughtering station

5. SAFETY INSTRUCTIONS AND GOOD MAINTENANCE

Check the following points before use:

Cartridges:

- Check that the cartridges are not wet or contaminated with oil.
- Check that there is no rust on the cartridges
- ♣ Check that the cartridges are approved for use with the gun. They must be certified "Matador" and be caliber 0.25 (6.3/12)
- ♣ Always use the size of cartridge suitable for the animals you have to slaughter, as per the table below:

Color of cartridges	Weight	Kind of Animal (Age)		
Black	More than 000 kg	Bulls		
Black	More than 900 kg	Oxen and Young Beef (Exceptional conditions)		
		Bulls (<3years)		
	Red General Usage	Oxen		
Red		Young Beef		
		Cow		
		Heifer		
	Blue Less than 450 kg	Cow		
		Small Heifer		
Blue		Veal		
		Pigs		
		Sheep and goats		

Installation at the slaughtering station:

For Animal Welfare there must be at least 2 guns available at the slaughtering station at all times. Any gun that has been modified is defective or is suspected of malfunction must be replaced immediately.

Gun:

Every Gun must be dry, without any apparent rust.

The punching pin (part °917) must be retracted in the barrel (part °915) It never should exceed the barrel extension (part °916).

Check the operation of the locking system. You must feel the « click » of the locking ball.



Arm the system and press on the percussion trigger (the gun must always be pointed downwards, even if it's not loaded!). You must feel the movement of the percussion hammer (part °903).

If any of the checks above is not correct, contact your maintenance department and do not use the gun

Use of the gun:

Any gun which is not in use should always be stored open.

The operator can, if he wishes, load a cartridge at this stage.





When the animal is ready for slaughtering, the operator can lock the gun.

He must definitely feel the "click" when locked.

The armament of the system by pulling on the cocking cord must be carried out nearest to the animal. The release of the percussion trigger must be carried out with direct contact with the animal's head.

The point of aim on the animal's head must take place at the intersection of the diagonals passing from the ears to the eyes. A diagram is provided for posting at the slaughtering station (see page 7 of this user guide).

Once the gun is armed, if the operator aborts the shooting, they must immediately unlock and open the gun. Normally the unexploded cartridge will be ejected. If this does not happen the cartridge can remain in place for the next shot. The operations of loading and arming must always be done with the gun directed towards the ground.

After using the gun :

After each shot:

Unbolt and break the gun immediately, taking care to ensure that the empty cartridge has been ejected. The cartridge should always be ejected downwards.



After the shot, check the condition of the animal – in the manner set out in your protocol – to ensure it has been properly stunned. In the event of a problem, shoot again with a 2nd gun to avoid the animal suffering.

After any ineffective shooting, the operator must always check that the problem was not caused by incorrect operation of the gun. In case of doubt, they must immediately ask for the replacement of a suspect gun.

In any event, we recommended making alternate shots with different guns to avoid overheating of the buffers in the barrel. Whether guns are alternated or not a firing rate of one shot every 2 minutes should not be exceeded.

When not in use, guns should be left open in a dry and stable position -Termet recommends the use of a "Matabox" to ensure maximum safety and security.

At the end of the day:

At the end of the shift, all guns should be removed from the slaughtering station, ideally being moved to the maintenance department. The operator should inform the maintenance department of any problem noted during the day and specify the gun concerned.

Guns must always be transported without cartridges inside, and in the open position – Termet recommends use of a "Matabox" for this purpose.

CAUTION:



Never remove the exploded cartridge from the chamber with your hand.

DO NOT POINT THE GUN TOWARDS YOURSELF OR ANY ANOTHER PERSON, EVEN IF THE GUN IS NOT LOADED.

6. ANIMAL WELFARE

- PREVENT ANIMAL STRESS
- ♣ INTRODUCE THE ANIMAL IN THE KILLINGBOX ONLY WHEN THE OPERATOR IS READY TO STUN IT (NO ANIMAL MUST BE SLAUGHTERED UNLESS IT CAN BE IMMEDIATELY HOISTED AND BLED WITHIN 60 SECS)
- **♣** AVOID TOO MUCH LIGHT IN THE KILLINGBOX AREA. NOISE SHOULD BE KEPT TO A MINIMUM
- **♣** IF IT IS POSSIBLE, INSTALL A WATER TAP IN FRONT OF THE BOX TO REDUCE ANIMAL STRESS
- **♣** ENSURE THAT AT LEAST 2 PISTOLS ARE PRESENT NEAR THE KILLINGBOX AT ALL TIMES
- **4** EFFECTIVE STUNNING IS DETERMINED WHEN:
- **4** THE ANIMAL COLLAPSES IMMEDIATELY
- ♣ IT IS LYING UNCONSCIOUS WITH NO EVIDENCE OF RHYTHMIC BREATHING
- **NO EYELID OR CORNEAL REFLEX CAN BE SEEN (FIXED GLAZE WITHOUT REFLEXES)**
- **THERE IS NO SENSITIVITY TO PAIN (NO VOCALISATION)**
- **♣** THE EFFECTIVENESS OF THE STUN MUST BE VERIFIED EACH TIME PRIOR TO THE ANIMAL BEING HOISTED
- ♣ BLEED THE ANIMAL AS SOON AS POSSIBLE AFTER STUNNING TO AVOID RECOVERY OF CONSCIENCENESS

Meat quality depends on respecting animal welfare.

7. MAINTENANCE PROGRAM

The recommended intervals in this guide are based on a line slaughtering 60 cattle/hour, allowing 30 animals/hour for each Matador, using red cartridges. You can adjust the suggested intervals to suit your line speed and to account for the colour of cartridge you use most.

• Each day (regardless of the number of shots fired).

Inspect all parts of the gun to ensure there are no cracks or rust on any components. Test once with the super securitest to check the speed of the punching pin.



<u>ATTENTION</u>: Every test fire with the matador must be done with the blue cartridges (the least powerful ones)

Check the integrity of the elastomer rings and clean inside the barrel. Check the washers and the pinhead rush integrity Change any wear parts if necessary.

After 5 000 shots (2 weeks)

Dismantle the handle (part °901B), check the hammer spring (part °904), the hammer (part °903), the firing pin (part °906) and the ejection base-holder.

Clean and grease every spring.

Change any wear parts if necessary.

• After 20 000 shots (2 months)

Change the bolt (part °910) & barrel (part °915) dismantle the gun completely and clean it thoroughly then check all components for any cracks.

Reassemble and grease the gun.

Change any worn or damaged parts if necessary.

After 40 000 shots (or 3 years)

Replace your Matador (your distributor will trade-out your old gun).

The schedules above are just indications. You should refer to the Parts Lifetime table on page 16 of this guide to confirm the usable life of individual parts based on the cartridges used most often.

Every part that is replaced should be recorded on the maintenance log spreadsheet shown on page 21 of this guide.

8. DISMANTLING AND REASSEMBLY PROCEDURE

♣ All spare parts must be stored in a clean, dry place and protected from light before use.

CLEANING DRYING AND LUBRICATION



Tools required: a 46mm spanner, a barrel brush, an Ø2mm pin (paperclip for example), black grease for threads, a spray grip (every 3 months) and a duster (see set of tools)

Spare parts: elastomer rings (part °922), front protection washers (part °921), rear protection washer (part °920 and part °920b)

DISMANTLING :



The BARREL should only be hand tight, so try unscrewing by hand first. Only if necessary tighten in a vice the MUFFLER BARREL (part °915) - without excessive force - in vertical position with the 2 flat parts near the BARREL EXTENSION (part °916), then using a spanner, loosen and unscrew the BARREL EXTENSION (part °916).

Withdraw the PUNCHING PIN with its stack of rings and discs; let the ELASTOMER RINGS dry on the work bench, then exchange them with a second set to rotate daily.

CLEANING:

Clean inside the MUFFLER BARREL (part °915) with the flue brush and use a 2mm drill at 30° to clean the vent. Clean the BARREL EXTENSION (part °916) after withdrawing the LOCKING JOINT (part °923). Withdraw all the discs of the PUNCHING PIN (part °917) and replace any deteriorated rings. Spray the Punching Pin with a light coating of oil to prevent corrosion.

♣ REASSEMBLY :

To allow the maximum time for all parts to dry thoroughly, assembly should only take place just before the pistol is to be used.

Assemble on the PUNCHING PIN in this order only, 1 REAR PROTECTION WASHER (part °920) blue, then 1 REAR PROTECTION WASHERS (part °920) brown (bore diameter 13.5mm), 10 ELASTOMER RINGS (part °922), then 2 FRONT PROTECTION WASHERS (part °921) (bore diameter 12mm), and finally TIGHTNESS PLATE (part °919).

Refit the PUNCHING PIN into the barrel pushing it fully back, then place LOCKING JOINT (part °923) in the BARREL EXTENSION (part °916), screw together by hand only, taking care that the stem of the PUNCHING PIN does not protrude out of the BARREL EXTENSION.

Take care that the threads of the MUFFLER BARREL are well lubricated. Nip up the BARREL EXTENSION on the MUFFLER BARREL as tight as you can get by hand only.

TESTING:

Each Matador should be tested for satisfactory operation with the SUPER SECURITEST 3000 every day before it is transferred to the MATABOX.



<u>ATTENTION</u>: Every test fire with the matador must be done with the blue cartridges (the least powerful ones)

CHANGING OF HAMMER SPRING (part °904) AND TRIGGER SPRING (part °905) We strongly recommend these parts are replaced after 5000 shots or if the cartridge percussion is not correct.

Tools required: a 46mm spanner, a small screwdriver, grease for the springs, a spray grip (every 3 months) and black grease for threads (see set of tools)

DISMANTLING :

Disassemble the barrel from the Matador upper part by unscrewing the Rush of Bolt (part °911). Then remove the 2 Pins(part ° 914) and the coupling sleeve (part °913).

Remove the String (part °924) and put the Cap of Grip (part °900) in a vice (using the 2 flat parts).
Unscrew the Safety Grip (part °901B) using a 36 mm spanner.



Remove the Percussion Hammer (part °903) with spring (part °904) and then Percussion Trigger (part °902) with spring (part °905) will come out by themselves.

REASSEMBLY:

Change both Hammer and Trigger springs (part °904 & 905). Put some grease on the springs <u>only</u> and reassemble all parts in the reverse of the dismantling procedure above. The assembly should then be sprayed with a light coating of oil to prevent corrosion.

CHANGE EJECTION BASE-HOLDER (part °907B) & FIRING PIN (part °906)

We strongly recommend these parts are replaced after 10 000 shots or if the cartridge percussion is not correct.

Tools required: a 36mm spanner, a small screwdriver, a spray grip (every 3 months) and black grease for threads (see set of tools)

Proceed first like changing Hammer and Trigger springs procedure to disassemble the Barrel 915 from the Matador upper part.

Put the 2 hears of the Rocking Head 912 in a vice. Unscrew the Safety Grip 901B from the Rocking Head 912 by using a 36 mm Spanner.











Remove the 2 Holding Pins 908. Use a Screw Driver to help removing Pins 908. The Ejection Base Holder 907B and the Firing Pin 906 can then be removed.

Before re-assemble, clean all surfaces and put a drop of oil. Use grease only on Spring 909B and put back Fire pin 906, Locking ball 925B as shown on the photo bellow. IF EJECTION BASE HOLDER 907B IS ASSEMBLED AT 180°, THEN THE LOCKING SYSTEM WILL NOT WORK!

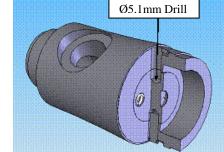


When changing the Ejection Base holder 907B by a new one, there is chances that both holes on parts 907B and Safety Grip 901B will not be in line. Then Pins 908

cannot fit. You will have to use a Ø5mm drill to realigned them.

PLEASE USE ONLY THE BACK OF A SCREWDRIVER TO PUSH THE HOLDING PINS 908 INTO PART 907B! The Holding Pins 908 have to be inserted and removed without excessive effort.

When putting back part 912 put the "blocking" spray and some grease on 901B threads part (see maintenance kit).



9. PARTS LIFETIME

(Axial locking system)

DEE	Designation		Nb shootings/cartridge			
REF	Designation	Quantity	Blue	Red	Black	
901 B	SAFETY GRIP	1	45 000	40 000	30 000	
902	PERCUSSION TRIGGER	1	25 000	20 000	15 000	
903	PERCUSSION HAMMER	1	20 000	15 000	10 000	
904	HAMMER SPRING	1	5 000	5 000	4 000	
905	TRIGGER SPRING	1	20 000	15 000	10 000	
906	CARTRIDGES FIRING PIN	1	10 000	8 000	6 000	
907 B	EJECTION BASE-HOLDER	1	12 000	10 000	8 000	
908	HOLDING PIN	2	20 000	15 000	15 000	
909 B	LOCKING SPRINGS	1	20 000	20 000	15 000	
910	0 BOLT OF GAS CHAMBER + MUFFLER		25 000	20 000	10 000	
915	BARREL	1	25 000			
912	912 ROCKING HEAD		50 000	50 000	50 000	
913	913 COUPLING SLEEVE		100 000	100 000	100 000	
914	COUPLING PIN 2		15 000	15 000	15 000	
916	BARREL EXTENSION 1 45		45 000	40 000	30 000	
917	PUNCHING PIN	1	15 000	15 000	10 000	
918	PINHEAD RUSH	1	4 000	3 000	3 000	
919	TIGHTNESS PLATE	1	5 000	5 000	5 000	
920bl+920br	REAR PROTECTION WASHERS	2	2 000	2 000	1 500	
921	921 FRONT PROTECTION WASHERS		2 000	2 000	2 000	
922	922 ELASTOMERE RINGS		1000 *	1 000	800	
923	923 LOCKING JOINT		2 000	2 000	2 000	
924	COCKING STRING	1	5 000	5 000	5 000	
925 B	LOCKING BALLS	1	45 000	40 000	30 000	

CAUTION: The operational life of the parts listed above is for a well maintained pistol. If a part or the complete pistol is not well maintained (especially the elastomer rings) then the operational life of the parts or the pistol will be shorter and may risk danger for the user. This data has to be adjusted to account for the type of cartridge used, particularly when more than one size is used frequently.

* The ELASTOMER RINGS must be checked every 500 shots. Any damaged ELASTOMER RINGS must be changed immediately.

The MATADOR's lifespan is **40 000 shots or 3 years** (whichever comes first) - these limits will be lower for a poorly maintained pistol. **Beyond this limit we strongly advise you**:

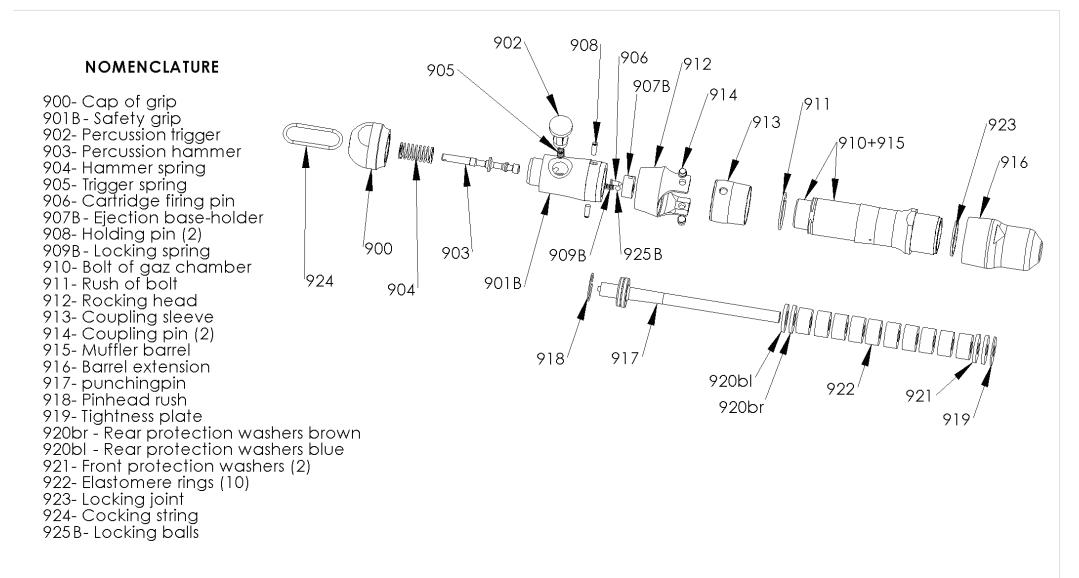
- ♣ If the pistol has 40 000 shots or more: replace your old MATADOR with a new MATADOR (trade out the old pistol.
- ♣ If the MATADOR is more than 3 years old: return the MATADOR to TERMET for a diagnostic test. Indicate, if it's possible, the number of shootings carried out with the MATADOR SS 3000

We advise users to rotate use of their Matadors regularly and to anticipate the date of replacement from time of commissioning.

(Example: 4 Matadors are used for 70 000 shots/year. In this example, the pistols have to be changed after 2 years (17 500 shootings per year + safety margin of 10%= 20 000 shots), however, the muffler barrel and the bolt (910+915) have to be changed every year (as their usable life is 20 000 shots). In this example you could also replace 2 pistols each year for the same effect).

- ♣ ALWAYS choose simple dates (Perhaps even change the pistols 1 or 2 months before the theoretical date).
- ♣ IN YOU REGULARLY USE BLACK CARTRIDGES, apply the following simple rule: 1 black cartridge shot = 2 red cartridge shot, so the life of parts and pistols is reduced by 50%
- If the bolt 910 or the safety grip 901b breaks, the muffler + bolt set must be replaced together with the safety grip (910, 915 and 901b).

10. SPARE PARTS



N.B.: Henceforth, parts 910 and 915 are not dismountable and must be changed simultaneously

11. TROUBLESHOOTING



ATTENTION Never try to extract a cartridge that failed to explode with your hands.

Problem	Solution
Shot is not fired	Wait for 30 seconds before opening the MATADOR. Check the hammer spring, the hammer and the cartridge firing pin. If those 3 elements are in good shape and the cartridge is correctly marked by the firing pin, check that the cartridges are not wet.
Abnormal noise	Crack on one piece of the gun. Stop using the gun immediately and contact the maintenance department.
The gun is not very efficient	Check and change if necessary the pinhead rush and the elastomer rings. Check that the cartridges are not wet.
The cartridges doesn't extract itself	Change the ejection base holder, check the seating of the cartridge in the bolt and firing chamber.

12. CE CONFORMITY CERTIFICATE

WE, TERMET DECLARE THAT THE	SLAUGHTERING PISTOL
Түре	MATADOR SS 3000
SERIAL NUMBER	
IS COMPLIANT WITH THE FOLLOWING DISPOSITIONS	EN 2006/42/CE EN 2009/1099/CE
HARMONIZED DISPOSITIONS USED	None
OTHER DISPOSITIONS USED	EN 15895, NF U66-100, NF U66-051, NF U66-052, EN ISO 12100-1, EN ISO 12100-2, EN ISO 14121, DECISIONS CIP Edition 2009, EN 12549+A1
CE CONFORMITY CHECKING ORGANISATION	BANC NATIONAL D'EPREUVE – ORGANISME NOTIFIE EUROPEEN N°2223 Z.I MOLINA NORD 5, RUE DE MEONS – BP 147 – CEDEX 1 42004 SAINT-ETIENNE
Attestation N°	2223/5470/780/06/11/0014

PRODUCT TYPE IS COMPLIANT WITH THE PRODUCT ABOVE.

TERMET SOLEFI ZA La Foret

72470 CHAMPAGNE

CHAMPAGNE, 29.06.2011

MARIO RODRIGUES

13. MAINTENANCE LOG SPREADSHEET FOR MATADOR

This spreadsheet allows you to monitor the changing of wear parts for your matador.

Consumables such as elastomer rings and non-critical parts such as the locking ball are not included on the spreadsheet deliberately as the frequency of change is higher than other parts.

Serial numbers of the key parts are marked on them in the format XXX-XX. The first 3 digits are the part number of the piece, the next 2 are the month of production and last 2 are the year of production.

Matador N°: First service date:

Dillar	O a mi a L NIO	I C D	F 0 D	F 0 D	4b F O D	F 0 D
Pièce	Serial N°				th F. S. D. +month	
		or 10 000 shots	or 15 000 shots	or 20 000 shots	or 30 000 shots	or 40 000 shots
900 : Cap of grip	900	PLEASE INFORM TERMET IN CASE OF BREAKAGE				
901B : Safety grip	901B	PLEASE INF	PLEASE INFORM TERMET IN CASE OF BREAKAGE			
902 : Percussion trigger	902		Nx N° lot :		Nx N° lot :	
903 : Percussion hammer	903	Nx N° lot :		Nx N° lot :	Nx N° lot :	RENEW
907B : Ejection base-holder	907B	Nx N° lot :		Nx N° lot :	Nx N° lot :	PISTOLS WITH
912 : Rocking head	912	PLEASE INF	PLEASE INFORM TERMET IN CASE OF BREAKAGE			
913 : Coupling sleeve	913	PLEASE INF	PLEASE INFORM TERMET IN CASE OF BREAKAGE			
915+910 : Bolt + Muffler barrel	915			Nx N° lot :		
916 : Barrel extension	916	PLEASE INF	PLEASE INFORM TERMET IN CASE OF BREAKAGE			
917 Punching pin	917		Nx N° lot :		Nx N° lot :	