PISTOL 9 GC - IMBEL MD1

USER'S MANUAL
OPERATION AND MAINTENANCE



WARNING !

READ THIS MANUAL CAREFULLY BEFORE HANDLING THE FIREARM.



The manufacturer reserves the right to modify this manual at any time, making any revisions deemed necessary to ensure its proper use.

Warning!!!

Using a firearm requires training and emotional stability. Store your firearm in a safe place and out of the reach of children.

IMBEL – INDÚSTRIA DE MATERIAL BÉLICO DO BRASIL
Quartel General do Exército - Bloco H - 3º Andar SMU 70.630-901 - Brasília – DF
Company affiliated with the Ministry of Defense – Brazilian Army Command
http://www.imbel.gov.br

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SAFETY RULES

Read carefully these instructions before handling the firearm.

The user must always consider the firearm loaded and ready for use until proven otherwise.

During handling, keep the firearm pointed in a safe direction and only aim it when you intend to shoot.

Use only high-quality ammunition from a known source, appropriate for the type of firearm.

The use of personal protective equipment is recommended during handling and maintenance operations.

Important for pistols with ADC:

All operations related to the assembly and disassembly of the ADC system and its operation (cocking and decocking the hammer) must be performed with your finger off the trigger to prevent unintended release of the hammer.

A. INTRODUCTION

The Indústria de Material Bélico do Brasil (IMBEL), a Brazilian federal public company affiliated with the Ministry of Defense – Brazilian Army Command, is a traditional manufacturer and supplier of pistols and rifles to the national Armed and Auxiliary Forces.

The Pst 9 GC-IMBEL MD1 represents the successful combination of IMBEL's technology and ruggedness with the qualities of the Colt system for the 9 mm caliber. The use of double-stack magazines increased ammunition capacity, and with the implementation of the firing pin plunger system, this pistol has become highly resistant to accidental discharge, making it especially suitable for police and military use.

This User's Manual covers the handling and maintenance of the Pst 9 GC-IMBEL MD1 both with and without the Hammer Cocking and Decocking System (ADC System). Pistols without the ADC System follow the well-established standards of the Colt model. Specific procedures for each configuration are indicated in the text. Procedures without specific reference apply to both configurations.

The Hammer Cocking and Decocking System (ADC System) has been approved as a parts kit, the ADC Kit. This means that any IMBEL pistol based on the design of the .45 M911 pistol can be acquired with or without the ADC System. Transitioning from one configuration to another can be accomplished simply by replacing the hammer assembly and the thumb safety devices. The ADC System allows the firearm to be ready for use with the hammer forward, which is particularly suitable when open carry is required.

The use of the ADC System increases safety by allowing the firearm to be engaged and disengaged without the need to pull the trigger, even partially.

The Pst 9 GC-IMBEL MD1 allows field stripping of its three main assemblies (barrel/frame/slide) for preventive maintenance without the use of any tools.

Manufactured under the strictest international military standards and using high-quality raw materials, the firearm ensures a long service life with minimal maintenance and reliable operation under any weather conditions.

The Pst 9 GC-IMBEL MD1 is supplied—unless otherwise specified by the customer through contract—in individual packaging, along with two magazines, a cleaning rod and brush, the user manual, and a test target from factory firing.

Raw materials and finishes used in this model:

Modelo (*model*)	Armação (*frame*)	Ferrolho (*slide*)	Cano (*barrel*)	Demais Peças Metálicas (*small parts*)
MD1	Carbon steel, phosphated and painted	Carbon steel, phosphated and painted	Carbon steel, blued and polished	Phosphated and/or painted

B. TECHNICAL INFORMATION



SISTEMA ADC II

Pistol:

Length	219 ± 1 mm
Operation	semiautomatic and single action
Ammunition	9 x 19 mm, 9 Lugger, 9 Parabellum
Capacity	16 + 1 rounds
Width	38 ± 1 mm
Height without magazine	139 ± 1 mm
Sight radius	162 ± 1 mm
Distance from sight line to barrel axis	18 ± 1 mm

Barrel

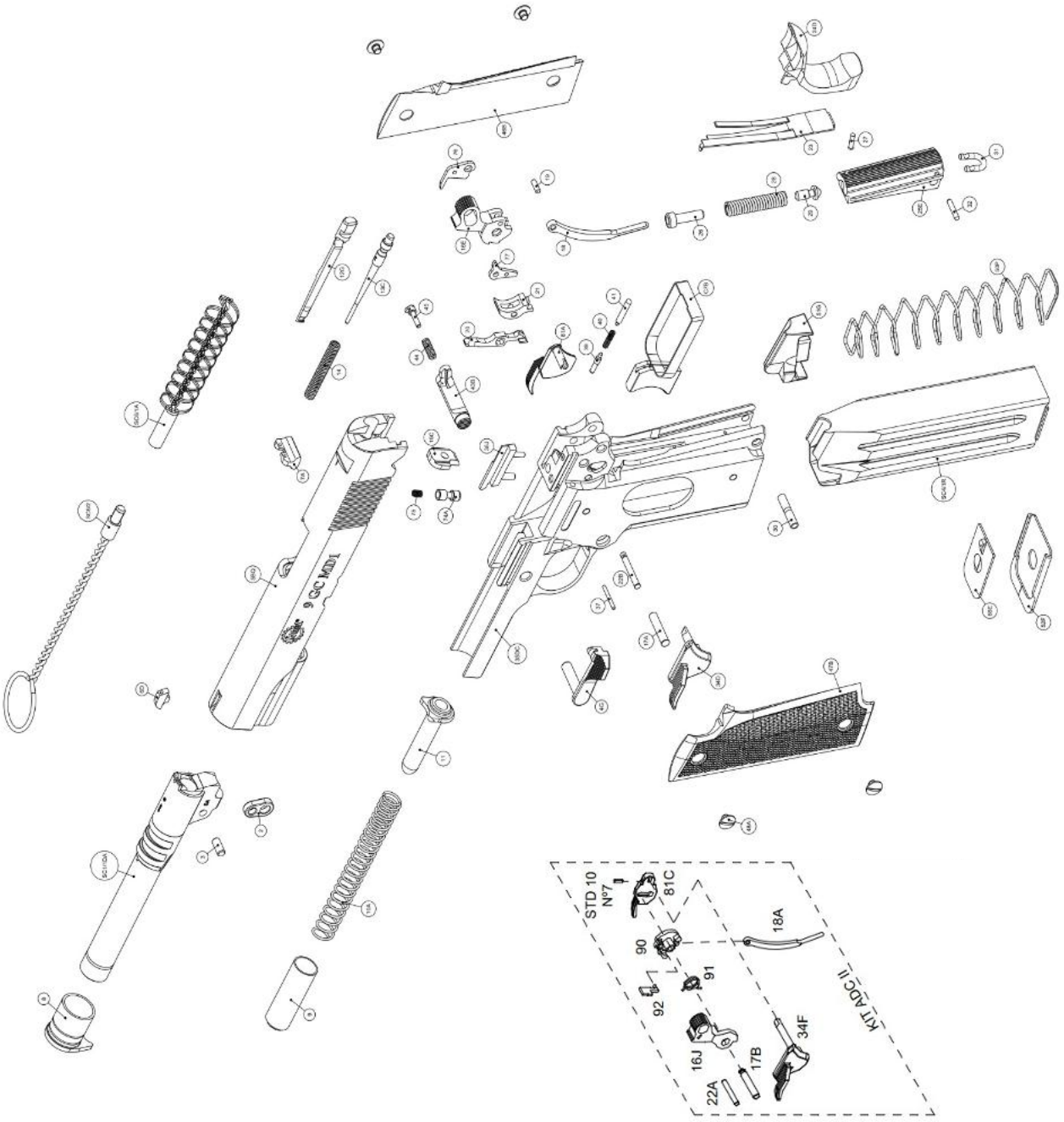
Caliber	9 mm
Length	128 ± 1 mm
Twist rate	10" / 254 mm
Number of grooves (right-hand twist)	6

Weights

Pst 9 GC MD1(*) without magazine (1120 ± 10 g)	10,98 ± 0,10 N
Magazine with 16 rounds (*) (337 ± 5 g)	3,30 ± 0,05 N

* 9 mm LUGER FMJ (Full Metal Jacket, round nose) ammunition with a 124 gr projectile.

C. EXPLODED VIEW



D. PARTS LIST

Ref	Designation
2	Barrel link
3	Barrel link pin
4G	Slide stop
5BQ	Slide
6D	Front sight
7A	Rear sight
8	Barrel bushing
9	Plug
10A	Recoil spring
11	Recoil spring guide
12G	Extractor
13C	Firing pin
14	Firing pin spring
15C	Firing pin stop plate
16E ①	Hammer
16J ②	
17A ①	Hammer pin
17B ②	
18 ①	Hammer strut
18A ②	
19 ①	Hammer strut pin
20	Disconnector
21	Sear
22A ②	Sear and disconnector pin
22B ①	
23	Sear spring
24D	Grip safety
25E	Mainspring housing
26	Mainspring cap
27	Mainspring cap pin
28	Mainspring
29	Mainspring housing pin retainer

Ref	Designation
30	Mainspring housing pin
31	Lanyard loop
32	Lanyard loop pin
34D ①	Left thumb safety
34F ②	
35DC	Frame
36J	Ejector
37	Ejector pin
39	Slide stop plunger
40	Plunger spring
41	Safety catch plunger
43B	Magazine catch
44	Magazine catch spring
45	Magazine catch lock
46B	Right grip
47B	Left grip
48A	Grip screw
74A	Firing pin plunger
75	Firing pin plunger spring
76	Firing pin plunger lever
77	Trigger bar lever
81A ①	Right thumb safety
81C ②	
90 ②	Hammer decocker
91 ②	Hammer return spring
92 ②	Safety plate
SC1/1DA	Barrel
SC6/1A	Cleaning brush
SC6/2	Cleaning brush rod
C4R	Magazine
C7B	Trigger

Caption: ① Specific parts for the Pst 9 GC – IMBEL MD1 without ADC system
② Specific parts for the Pst 9 GC – IMBEL MD1 with ADC system

E. ESSENTIAL OPERATIONS

IMPORTANT ! ! !

It is essential to understand these procedures before firing live ammunition.
Training in the essential operations with the pistol must only be carried out using dummy ammunition. The exercises described below follow a logical sequence of actions that ensures safe handling learning. The procedures learned through training in essential operations will ensure fast and safe use when it becomes necessary to use the pistol with live ammunition.

1. Removing the magazine
With the pistol in the position shown (Photo 01), press the magazine catch (part 43B). The magazine should be released from the firearm, propelled by its spring and the force of gravity.

2. Loading the magazine
Place three rounds or dummy cartridges into the magazine. Slightly depressing the round at the top of the magazine makes it easier to insert the next ones (Photo 02).

Note: Dummy ammunition contains no powder and no primer, consisting only of the case and projectile.

3. Inserting the magazine
Insert the magazine with dummy rounds into the pistol (Photo 03) until you hear the click indicating it has been secured by the magazine catch.



PHOTO 01



PHOTO 02



PHOTO 03

4. Chambering the round
It is the operation of placing a round into the chamber.

4.1. First process
After inserting the magazine in the pistol, whether the firearm is open or closed, pull the slide fully to the rear and release it. The slide will move forward, chambering a round.

4.2. Second process
It is used when the firearm is loaded and the slide is already locked to the rear by the slide stop. Press the slide stop downward; the slide will move forward, chambering a round.

5. Extracting and ejecting
These are the operations used to remove a round from the chamber (extract) and expel it from the firearm (eject). To extract and eject, simply pull the slide fully to the rear. If there is ammunition in the magazine, a new round will be chambered. If the magazine is empty, the firearm will remain open, with the slide held to the rear by the slide stop.

6. Decocking or disengaging the hammer
It is the operation of disabling the pistol for firing.

6.1. First process (Only for weapons with ADC)
The firearm must have the hammer held to the rear. Without touching the trigger, push the hammer forward

until it rests against the safety plate (Photo 04), where it will remain retained. The ADC System has acted as a decocking mechanism.

6.2. Second process
The firearm must have the hammer held to the rear. Grip the pistol normally so that your hand applies pressure to the trigger safety device. With the thumb and index finger of the free hand, hold the hammer while simultaneously pulling the trigger (Photo 05). Keep the trigger pressed while carefully guiding the hammer forward until it rests against the rear of the firing pin.



PHOTO 04



PHOTO 05

7. Cocking or engaging the hammer
These are the operations used to make the firearm ready to fire. Immediately after chambering, the firearm will already be cocked.

7.1. First process (Only for weapons with ADC)
It is used when the firearm has been decocked by the first method (item 6.1), that is, using the advantages of the ADC System. Simply lower either of the safety levers (Photo 06), and the hammer will be driven to the rear and remain there. In this situation, the ADC System acts as a cocking mechanism. Safety, speed, and ease of operation are the main characteristics of this process.

7.2. Second process
It is used when the firearm is loaded and has been decocked by the second method (item 6.2). Simply pull the hammer fully to the rear until it is held in the rearmost position (Photo 07) by the sear.



PHOTO 06



PHOTO 07

7.3. Third process
It is used when the firearm is loaded but there is no round in the chamber. Pull the slide fully to the rear and release it.

8. Engaging the safety mechanism
These are the operations used to place the pistol in a safe condition.

8.1. First process (Only for weapons with ADC)
After cocking, push the hammer forward without pulling the trigger. The ADC System acts as a decocking mechanism and places the firearm in a safe condition by moving the safety plate and the safety levers upward.

8.2. Second process (Only for weapons without ADC)

After cocking, move either of the safety levers to its uppermost position in order to lock the pistol (Photo 08).

8.3. Third process
After cocking, hold the hammer, then pull the trigger and release it immediately after feeling the hammer release. Once the trigger is released, control the forward movement of the hammer so that it remains held at approximately one-third of its decocked position (Photo 09). This process is also known as safety through half-cocking.

Warning: Locking the firearm by guiding the hammer forward while the trigger is pressed is a critical procedure and must be performed carefully. Always verify the locked condition after completing the action to avoid a false lock situation. This process is safe when executed correctly, although it requires practice.

8.4. Fourth process
This is a variation of safety through half-cock. The firearm must have been previously decocked by the second method (Item 6.2), with the hammer resting against the rear of the firing pin. Without touching the trigger, slowly pull the hammer back until you hear the click that indicates it has been retained in the half-cock (or half-lock) position. This process is safe when executed correctly, although it requires practice and sufficient time.

9. Disengaging the safety mechanism
These are the operations used to make the pistol ready to fire.

9.1. First process (Only for weapons with ADC)
With the firearm locked by the first method (item 8.1), move either of the thumb safety devices to their lowest position; the hammer will be cocked automatically. The ADC System acts as a cocking mechanism. This is the fastest and safest method to make the firearm ready to fire.

9.2. Second process (Only for weapons without ADC)
It is used when the pistol has been locked by the second method (item 8.2). Move either of the thumb safety devices to their lowest position. This is a fast and safe way to make the firearm ready to fire.

9.3. Third process
With the firearm in the half-cock (or half-lock) safety condition, obtained through the third or fourth locking methods (items 8.3 and 8.4), pull the hammer back until it is held in the rearmost position.

10. Firing
With the pistol cocked and unlocked, press the grip safety device—this occurs naturally when properly gripping the firearm—and then pull the trigger. The hammer should move forward.

11. Last shot
After the last shot, the case is extracted and ejected, and the slide remains locked to the rear, leaving the pistol open (Photo 10).



PHOTO 08



PHOTO 09



PHOTO 10

12. Reloading
Remove the magazine from the pistol. The slide remains locked in the rear position. Insert a new magazine with one or more dummy rounds and perform the chambering operation by any method; the slide will move forward, immediately chambering a new round, and the firearm will be ready to fire.

F. DISASSEMBLY

IMPORTANT ! ! !

It is essential to wear safety glasses during disassembly and assembly operations of the pistol, as there is a potential risk of accidents caused by spring-loaded parts. It is recommended that, during disassembly, the parts be placed side by side in the order in which they are removed from the firearm. This will make reassembly much easier.

Any disassembly or assembly operations not described in this manual must be carried out by authorized gunsmiths. Failure to follow this safety rule, or performing permitted procedures out of order or incorrectly, may result in damage to the firearm and/or injury to the user

1. Preliminary measures

Remove the magazine from the firearm. Pull the slide to the rear and inspect the chamber (Photo 11). Ensure it is empty, as disassembly may only proceed if there is no cartridge in the chamber. Failure to follow this basic safety rule may result in serious injury to the person handling the pistol and/or those nearby. Once it has been confirmed that there is no cartridge in the chamber, release the slide. Engage the safety by moving either of the safety levers upward (in the case of pistols without the ADC), or by pushing the hammer forward without pulling the trigger (in the case of pistols with the ADC).

2. Barrel blushing and recoil spring plug

Compress the knurled head of the recoil spring plug (Photo 12) and, at the same time, rotate the barrel bushing to the left (Photo 13). Gradually relieve the pressure on the plug until it and part of the recoil spring protrude from their housing. Remove the recoil spring plug (Photo 14). Rotate the barrel bushing fully to the right, positioning it between two coils of the recoil spring (Photo 15), and remove it by sliding it upward (Photo 16).



PHOTO 11



PHOTO 12



PHOTO 13



PHOTO 14



PHOTO 15



PHOTO 16

3. Slide stop

Disengage the safety. Pull the slide to the rear until its central half-moon–shaped notch aligns with the

protrusion on the lug of the slide stop (Photo 17). While holding the slide in this position, push the right end of the slide stop inward and remove it from the left side of the firearm.

4. Slide and frame
With the grip of the frame facing upward and the barrel pointing forward, hold the slide with one hand and the frame with the other. Then pull the frame rearward (Photo 18), separating it from the slide. On the frame, leave the hammer in the cocked position.



PHOTO 17



PHOTO 18

Note: For firearms equipped with the ADC system: once the frame has been separated from the slide, the trigger should only be pulled if the forward movement of the hammer is carefully controlled by hand until it rests against the safety plate. If the trigger is pulled and the hammer is released freely forward, it may cause breakage or deformation of the ADC system's safety plate.

5. Recoil spring and guide
Inside the slide, above the barrel, are the guide rod and the recoil spring. Remove them through the rear of the slide (Photo 19). Separate the guide rod and spring assembly. Note that the more tightly wound end of the spring is in contact with the guide rod.

6. Barrel
Swing the barrel link forward and remove the barrel through the front of the slide (Photo 20). If there is any resistance during removal, lift the rear of the barrel to disengage it from the slide and move it forward. Removing the barrel marks the end of field stripping; the firearm is now separated into its three main assemblies—frame, slide, and barrel—and is ready for maintenance. Note that no tools or accessories were required for field stripping.

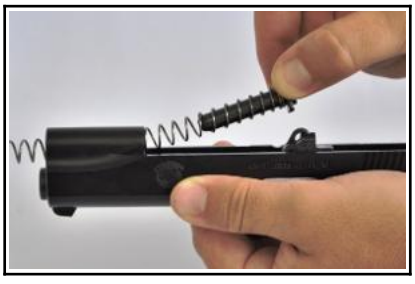


PHOTO 19



PHOTO 20

7. Firing pin stop plate and firing pin with spring
With the top of the slide facing downward, press the firing pin plunger, then use a punch to push the firing pin fully into its channel (Photo 21). Gradually release pressure on the firing pin plunger until you feel it retaining the firing pin in the forward position. The firing pin stop plate, now released, can be slid out of its slot in the slide. Remove the firing pin stop plate. While blocking the opening of the firing pin channel, press the firing pin plunger to release it. Keeping the plunger pressed, remove the firing pin and its spring, then separate

them, noting that the tighter coil of the spring is in contact with the firing pin.

8. Extractor, firing pin plunger with spring
Push the extractor rearward until it releases the firing pin block. Remove the firing pin block and its spring. Using a punch through the ejection port, push the extractor claw inward into its seat in the slide as far as possible. Then, with the punch, pull the extractor out by its rear end from its housing in the slide (Photo 22).



PHOTO 21

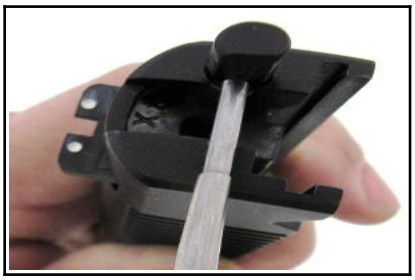


PHOTO 22

9. Thumb safety mechanism
9.1 Only for weapons with ADC
Using a punch, remove the roll pin from the hole in the right safety lever (Photo 23). If the hammer is not fully held to the rear, place it in this position. Without touching the trigger, push the hammer forward until it rests against the safety plate (Photo 24). Keeping the hammer forward, remove the left safety lever (Photo 25). Release the hammer, which will return to the rear under spring action. Remove the right safety lever, aligning its groove with the relief cut on the hammer pin (Photos 26 and 27), and withdraw it from the right side. With great care (see Note in item F.4), press the trigger and manually control the forward movement of the hammer until it rests against the safety plate.

Note: If necessary, to facilitate removal of the left safety lever, use a screwdriver near the pivot, between the left safety lever and the frame (Photo 28).



PHOTO 23



PHOTO 24



PHOTO 25



PHOTO 26



PHOTO 27



PHOTO 28

9.2. Only for weapons without ADC

If the hammer is not fully held to the rear, place it in that position. Set the safety levers halfway between the "safe" and "fire" positions. From the left side of the pistol, move and pull the left safety lever until it is removed (Photo 29). Rotate the right safety lever counterclockwise until it disengages from the notch on the sear pin (Photo 30). Remove the right safety lever from the right side of the pistol. Hold the hammer, pull the trigger, and carefully control the hammer as it moves forward.

10. Plunger spring assembly

Remove from its housing, on the left side of the frame, the assembly consisting of the slide stop plunger, plunger spring and safety catch plunger (Photo 31). Note that the safety catch plunger (the larger-diameter part) is the first component to come out from the rear of the housing in the frame. Disassemble the assembly if necessary.



PHOTO 29



PHOTO 30



PHOTO 31

11. Mainspring housing assembly

If the hammer is not in its most forward position, place it in that position. Using a punch, push the retaining pin of the housing block from the left side of the frame (Photo 32) outward, and then pull the block downward, removing it from the frame (Photo 33).

12. Grip safety and sear spring

With the removal of the block, the grip safety device and the main0spring become loose. Remove them (Photo 34).



PHOTO 32



PHOTO 33



PHOTO 34

13. Hammer and firing pin plunger lever

13.1. Only for weapons with ADC

Using a punch, from the right side of the frame, push the hammer pin out of the pistol. Then remove the ADC system and the firing pin block lever (Photo 35). It is recommended not to disassemble the ADC system; however, if absolutely necessary, proceed as follows: while holding the decocking mechanism, remove the hammer from its axis (Photo 36). Be careful with the hammer return spring. Remove the safety plate. Remove the hammer return spring. Remove the hammer strut (Photo 37).



PHOTO 35



PHOTO 36



PHOTO 37

13.2. Only for weapons without ADC

Using a punch, from the right side of the frame, push the hammer pin out of the pistol and remove it from the left side. Then remove the hammer and the firing pin block lever (Photo 38).

14. Sear, disconnector and trigger bar lever

From the right side of the frame, use a punch to push the sear pin and remove it from the left side of the frame. Then remove the sear, the disconnector, and the trigger bar lever (Photo 39).

15. Right and left grips

Using a screwdriver, remove the screws that secure the grip panels to the frame (Photo 40).



PHOTO 38



PHOTO 39



PHOTO 40

16. Magazine catch

Fully depress the magazine catch from the left side of the frame and, at the same time, from the right side, use a screwdriver to rotate the magazine catch retainer counterclockwise (Photo 41) until it disengages from its notch in the frame. Remove the magazine catch from the right side of the frame. Using the screwdriver, rotate the retainer clockwise until its lug is free from the slot in the magazine catch. Carefully control the release of the retainer, as it is under spring tension. Separate the retainer from the spring, noting that the free end of the spring has the larger coil (Photo 42).

17. Trigger

Move the trigger rearward and remove it from the frame. Note that the chamfer on the trigger face is oriented upward (Photo 43).



PHOTO 41



PHOTO 42



PHOTO 43

18. Magazine
Position the magazine with the base facing upward. Using a punch, press the magazine base retainer downward and slide the metal base plate slightly outward (Photo 44). While blocking the magazine body opening, continue sliding the base plate off the magazine lips (Photo 45), removing it carefully to prevent sudden spring release. After the spring has expanded, remove the assembly consisting of the base retainer, magazine spring, and follower (Photo 46), and then separate the components.



PHOTO 44



PHOTO 45



PHOTO 46

G. ASSEMBLY

The assembly operations of this IMBEL pistol are carried out almost exactly in the reverse order of disassembly.

1. Magazine
Attach the follower and the magazine base retainer to the respective ends of the spring, ensuring correct positioning. With the lower part of the magazine body facing upward, slide this assembly into the magazine (Photo 47) until the follower becomes visible.

Press the base retainer until the entire assembly is fully contained within the magazine body. Keep the spring compressed and slide the magazine base plate along the magazine lips until you hear the characteristic click, indicating that the base retainer has locked into its final position.



PHOTO 47

2. Trigger
Insert the trigger from the rear of the frame and slide it forward to its foremost position. Note that the chamfer on the trigger face must be oriented upward (Photo 48).

3. Magazine catch
Install the spring onto the magazine catch retainer, ensuring that the end with the smaller coil is attached to

the retainer. Insert the retainer and its spring into their housing in the magazine catch. Using a screwdriver, compress it until it can be fully rotated counterclockwise into the slot in the magazine catch (Photo 49). Insert the magazine catch into its housing from the right side of the frame. Press the catch from the left side while carefully rotating the retainer clockwise with a screwdriver (Photo 50) until it engages in its notch in the frame. The click indicates that the magazine catch is properly seated in the frame.

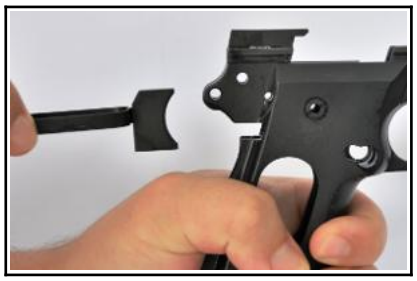


PHOTO 48

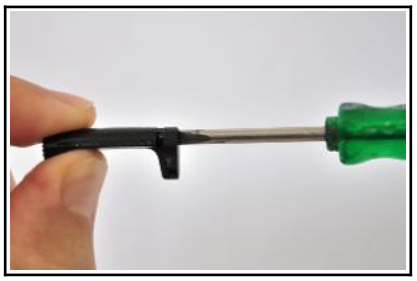


PHOTO 49



PHOTO 50

4. Right and left grips

Install the grip panels on their respective sides and secure them with two screws using a screwdriver (Photo 51).

5. Sear, disconnector and trigger bar lever

Hold the disconnector by its lower end, with the flat side facing downward. Place the sear on the disconnector, with the concave side facing upward and the two tips pointing rearward (Photo 52). Position this assembly in the disconnector housing in the frame, ensuring it rests on the rear part of the trigger and that the end of the disconnector is flush with the upper surface of the frame. Using a punch, position the sear and the disconnector so that the holes for the sear pin align with the corresponding holes in the frame. Insert the sear pin from the left side of the frame until it is flush with the right side of the sear. With your index finger supporting from inside the frame, install the trigger bar lever with the concave side facing rearward (Photo 53), with its larger end resting on the rear of the trigger, on the right side of the sear. Using a punch, position it so that its hole aligns with the sear pin holes. Complete the insertion of the sear pin from the left side of the frame. The slot near the right end of the sear pin (when present) must face rearward after assembly, allowing the passage of the right safety lever.



PHOTO 51



PHOTO 52



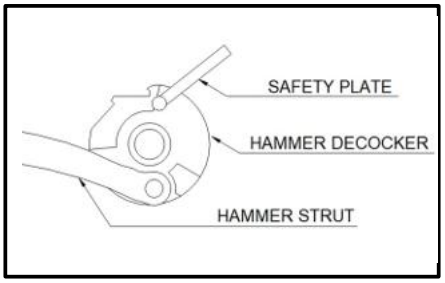
PHOTO 53

6. Hammer and firing pin plunger lever

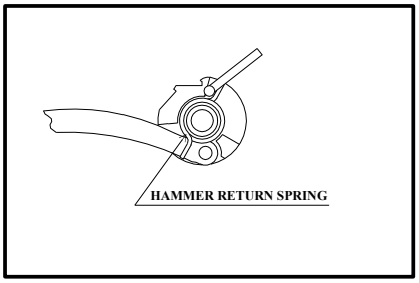
6.1. Only for weapons with ADC

If the ADC System has been disassembled: install the safety plate and the hammer strut in their respective positions on the decocker, keeping the hammer strut in its most forward position (Drawing 01). Position the hammer return spring on the decocker axis so that one end is under the safety plate and the other rests on the hammer strut (Drawing 02). Partially install the hammer onto its axis in the decocker, ensuring that the end of the spring is positioned before its stop on the hammer (Drawing 03). Rotate the hammer while pressing it against the decocker in a counterclockwise direction, guiding the end of the return spring into its working position, indicated by a characteristic click, resulting in the configuration shown in (Drawing 04).

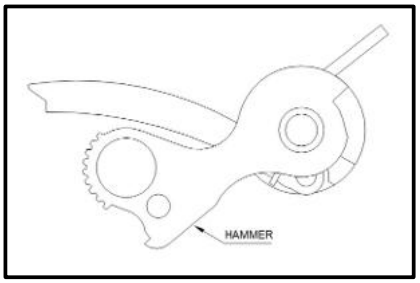
To verify the correct assembly of the ADC System, move the hammer and the hammer strut—there must be tension from the hammer return spring. Once the ADC System is assembled, position it in the frame so that the hammer pin holes are aligned. Insert the hammer pin from the left side of the frame until it is flush with the right side of the hammer. Install the firing pin plunger lever so that its hole aligns with the corresponding holes in the other components (Photo 54). Complete the insertion of the hammer pin. Press the trigger. If the firing pin block lever does not lift, there is an assembly issue and the procedure must be repeated starting from item G.5.



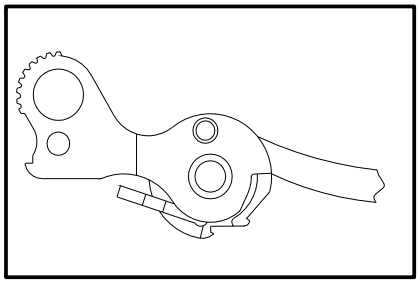
DRAWING 01



DRAWING 02



DRAWING 03



DRAWING 04

6.2. Only for weapons without ADC

Position the hammer in the frame so that the hammer pin holes are aligned. Insert the hammer pin from the left side of the frame until it is flush with the right side of the hammer. Install the firing pin plunger lever so that its hole aligns with the corresponding holes in the other components (Photo 54). Complete the insertion of the hammer pin. Press the trigger. If the firing pin plunger lever does not rise, there is an assembly issue and the procedure must be repeated starting from item G.5.

7. Sear spring

Place the hammer in the forward position and keep the hammer strut in its highest position. Seat the lower part of the sear spring into the groove in the frame, ensuring that the left leaf rests on the lower part of the sear, the center leaf rests on the disconnector, and the right leaf remains free (Photo 55).

8. Mainspring housing assembly (Phase I)

Partially insert the housing block into its guides in the frame grip, so as to keep the sear spring in the correct position during the installation of the next components. Lower the hammer strut until it is close to the sear spring (Photo 56).



PHOTO 54



PHOTO 55



PHOTO 56

9. Grip safety
Place the hammer in its most forward position. Install the grip safety device, aligning the hole for the safety lever shaft with the corresponding holes in the frame (Photo 57).

10. Mainspring housing assembly (Phase II)
Lodge the end of the hammer strut in the mainspring cap located inside the housing block. Move the housing block along its guides in the frame and slide it until the holes for the retaining pin are aligned. Insert the housing block retaining pin from the left side of the frame (Photo 58).

Note: If the pistol is equipped with the ADC System, from this stage of assembly onward—and until the slide has been installed on the frame—the trigger must only be pulled if the forward movement of the hammer is carefully controlled by hand. If the trigger is pulled and the hammer moves freely forward under spring force, it may cause breakage or deformation of the safety plate.

11. Plunger spring assembly
Assemble the plunger spring assembly, if it has been disassembled. Insert the plunger spring assembly into its housing on the left side of the frame. Note that installation begins with the insertion of the slide stop plunger, the smaller-diameter end (Photo 59).



PHOTO 57



PHOTO 58



PHOTO 59

12. Thumb safety mechanism
12.1 Only for weapons with ADC
Cock the hammer. Install the left thumb safety until its shaft is flush with the right side of the frame (Photo 60), securing the grip safety. Install the right thumb safety so that its groove passes through the relief cut in the hammer pin. Position it properly to allow the shaft of the left thumb safety to fit into its seat (Photo 61). Using a punch, press the support head of the trigger safety into its housing, pressing both thumb safety devices toward each other. With both thumb safety devices partially engaged and compressed together, move the hammer forward—without pulling the trigger—until the shaft of the left thumb safety is fully inserted into the right thumb safety (Photo 62). If there is interference during assembly, apply light taps to the left thumb safety until it is fully seated. The thumb safety devices will automatically move into the safe position. After verifying proper operation of the ADC system, insert the roll pin into the hole in the right thumb safety from the right side of the firearm, ensuring it aligns with the relief in the hammer pin. The pin can be fully inserted using a punch (Photo 63).



PHOTO 60



PHOTO 61



PHOTO 62



PHOTO 63

Note: For weapons with ADC: once the ADC has been installed in the frame, the trigger should only be pulled if the forward movement of the hammer is manually controlled with great care until it rests against the safety plate. If the trigger is pulled and the hammer is allowed to move freely forward under spring force, it may cause breakage or deformation of the ADC system's safety plate.

12.2. Only for weapons without ADC

Cock the hammer. Install the right thumb safety with the paddle in the vertical position (Photo 64). Rotate it downward clockwise until it passes through the groove in the sear pin, securing the thumb safety. Install the left thumb safety, properly positioning the right thumb safety to allow engagement between the two safety devices (Photo 65). Using a punch, press the support head of the thumb safety into its housing while pressing both safety devices toward each other until the left thumb safety is fully seated.



PHOTO 64



PHOTO 65

13. Extractor, firing pin plunger with spring

Partially install the extractor into its housing, inserting it until its circular notch aligns with the hole for the firing pin plunger. Assemble the firing pin plunger with its spring. With the underside of the slide facing upward, insert this assembly into its housing in the slide body. Using a screwdriver, compress the firing pin plunger while simultaneously pushing the extractor forward until it retains the plunger in place under spring tension (Photo 66).

14. Firing pin stop plate and firing pin with spring
Assemble the firing pin and its spring, ensuring that the end with the tighter coil is inserted first onto the firing pin. With the underside of the slide facing upward, use a screwdriver to compress the firing pin plunger while, with a punch, fully insert the firing pin and spring assembly into its channel in the slide (Photo 67). Carefully release the firing pin plunger, ensuring that the firing pin remains held in the forward position. Install the firing pin stop plate into its grooves in the slide and slide it into place. Press the firing pin plunger—this will release the firing pin, whose rearward movement is then limited by the retaining plate. The insertion of the firing pin tail into the hole in the retaining plate locks it in position (Photo 68).

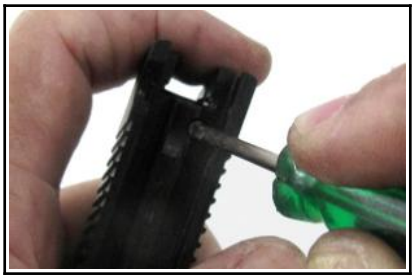


PHOTO 66

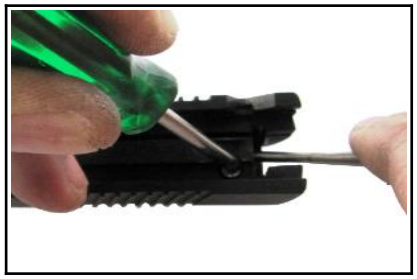


PHOTO 67

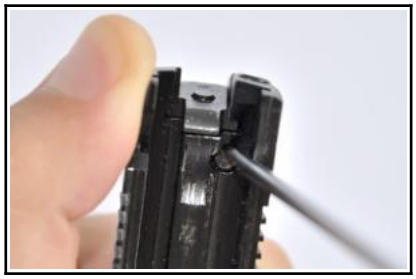


PHOTO 68

15. Barrel
With the underside of the slide facing upward, rotate the barrel link forward and insert the barrel through the front of the slide (Photo 69).

16. Recoil spring and guide
Insert the guide rod into the tighter (closed) end of the recoil spring. With the underside of the slide facing upward, place the recoil spring and guide rod assembly into position. Ensure that the assembly rests on the barrel, and that the front end of the recoil spring extends slightly beyond the front face of the slide (Photo 70).



PHOTO 69



PHOTO 70

17. Slide and frame
Position and hold the recoil spring and guide rod in their proper working positions. Hold the slide with the barrel facing forward and the underside facing downward, keeping the recoil spring firmly against the barrel with one hand. With the free hand, grip the frame with the hammer cocked and the firing pin plunger properly seated in its housing. Insert the frame into the slide (Photo 71).

18. Slide stop
Hold the firearm with its left side facing upward. Align the holes for the slide stop in the frame with the barrel link. Partially insert the slide stop until it compresses the support head into its housing and makes contact

with the underside of the slide. Move the slide rearward until its half-moon notch aligns with the slide stop lug. Then fully seat the slide stop by pressing it into the slide (Photo 72). Move the slide fully forward and then engage the safety: raise either safety lever (for pistols without the ADC system), or, for pistols with the ADC system, push the hammer forward without pulling the trigger until the safety is engaged.



PHOTO 71

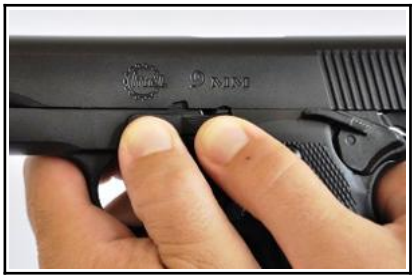


PHOTO 72

19. Barrel bushing
Install the barrel bushing and rotate it to the right, sliding it along the barrel until it contacts the front face of the slide. Then rotate it fully to the left, positioning it between the coils of the recoil spring (Photo 73).

20. Recoil spring and plug
Install the recoil spring plug onto the spring (Photo 74) and compress the assembly until it is fully contained inside the slide. Then rotate the barrel bushing to the right to secure the recoil spring plug in its working position (Photo 75).



PHOTO 73



PHOTO 74



PHOTO 75

H. Additional measures

These are procedures intended to verify that the firearm has been correctly assembled and is in proper working condition:

a. Disengage the safety and, twice, pull the slide fully to the rear and release it. Press the trigger without engaging the grip safety device: the firearm must not fire.

b. Pull the slide back 5 to 10 mm. Press the trigger while simultaneously engaging the trigger safety device: the firearm must not fire.

c. **c.1 For pistols with the ADC system:** lock the firearm by pushing the hammer forward without pulling the trigger. The thumb safety devices should automatically engage. Press the trigger while simultaneously engaging the grip safety device: the firearm must not fire.

c.2 For pistols without the ADC system: lock the firearm by raising one of the thumb safety devices. Press the trigger while simultaneously engaging the grip safety device: the firearm must not fire.

d. Disengage the safety. Press the trigger while simultaneously engaging the grip safety device: the firearm should fire.

Attention!!! If any of the expected results do not occur during these procedures, the firearm must be disassembled and reassembled in the proper order and in accordance with this Manual.

If proper functioning is still not achieved after reassembly, contact an authorized IMBEL service center to

identify the causes and resolve the issue.

e. Magazine insertion

Insert the magazine into its housing in the grip of the frame until a small click is heard, indicating that it has been secured by the magazine catch.

I. SAFETY MECHANISMS

The safety system of the Pst 9 GC-IMBEL MD1 includes:

1. Thumb safety

1.1. Only for weapons with ADC

When activated, the ADC System raises the thumb safety devices located on both sides of the frame (Photo 76), preventing movement of the slide, while simultaneously positioning the safety plate between the hammer and the firing pin, preventing accidental discharge in the event of a drop.

1.2. Only for weapons without ADC

The thumb safety devices, located on both sides of the frame, can only operate when the firearm is cocked. When engaged, they prevent the release of the hammer (Photo 77).



PHOTO 76



PHOTO 77

2. Grip safety

The grip safety device, located at the rear of the frame, when not depressed, prevents the trigger from moving rearward and releasing the hammer (Photo 78).

3. Half-cock safety

The first retention position, at the beginning of the movement, is the half-cock position. In this position, the movement of the hammer is blocked, even if the trigger and the grip safety device are pressed simultaneously (Photo 79).



PHOTO 78



PHOTO 79

4. Firing pin locking safety

When the trigger is not pressed, the firing pin is prevented from moving forward, being blocked by the firing pin plunger. This is a safety feature to prevent accidental discharge if the firearm is dropped.

J. USER INFORMATION

VERY IMPORTANT

1. Safety first: Before performing any maintenance or handling of the pistol, always check if there is no cartridge in the chamber.

2. Maintenance: the proper functioning of any firearm depends on correct maintenance.
a. Before firing: keep the barrel and chamber dry; the mechanism must be lubricated with neutral gun oil.
b. After firing: within 24 hours, a complete cleaning and lubrication of the firearm with neutral gun oil must be carried out.

3. Useful information:

- **a.** The use of acetone-based solvents for cleaning the firearm must be strictly avoided. These solvents attack epoxy paints such as those used on IMBEL pistols.
- **b.** Remove, as quickly as possible, incidental electrolytes such as seawater or heavily chlorinated water, accumulation of corrosive agents, excessive perspiration or perspiration from individuals with high uric acid levels, chlorine-based products, caustic soda, etc.
- **c.** After cleaning, apply a thin layer of neutral gun oil and wipe it off with a clean cloth.
- **d.** Avoid prolonged storage in direct contact with wood or leather.

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