

CM.047C CM.047D

AUTO ELECTRIC GUN

Users restricted to 18 years of age or older
使用年齡對象18歲以上

CM.047C

CM.047D

在操作之前必需讀熟這些說明書
Always read through this manual before operation.

警告 WARNING

18歲以上者才能使用
Only for 18 years of age or older

18歲以上年齡才能利用這支汽槍比賽使用
Operation of this air gun for competition use is restricted to users of 18 years of age or older.

注意受傷警告
Injury caution

因為BB彈能達到90-60米範圍，不小心的射擊可能導致眼睛受傷或其它傷害。
Since plastic BB bullets reach so to 60 meters, careless shooting may cause eye damage or other injuries.

注意詳細閱讀指示手冊
Careful reading of handling cautions instruction manual

在操作之前必需細心讀熟警告手冊和指示手冊操作汽槍時必須認明警告指示
Always read through this HANDLING CAUTIONS AND INSTRUCTION MANUAL carefully before operation.
Operate the air gun with full recognition of warnings and cautions.

WARNING 警告

Always wear eye protective gear. 玩槍時，請始終戴著眼保護裝置。

When shooting the air gun for a target or game, you and all participants must wear goggles or other eye protective gear, also paying attention to ricochets. (Pay sufficient attention also to third personnel other than participants.)

當使用汽槍射擊目標或遊戲時，你和所有的參與者都必須戴著防護眼鏡或其它眼保護裝置，同時要注意子彈的彈跳方向。(而且要特別注意不能射向遊戲者以外的第三者。)

You may be punished if you are shooting for a practical joke.
如果你用汽槍開惡意玩笑，可能會受到懲罰。

You may be punished if you damage public or personal properties or injure a person or animal even if you are shooting for a practical joke. Always observe manners and enjoy healthy sport shooting.

如果你損害公共的或個人的財產，或者傷害人或動物，即使你是在進行惡意玩笑遊戲，你也會受到懲罰。請始終守規定，享受有益健康的運動射擊。

Never disassemble or modify the air gun. 避免拆除或修改該氣槍。

This air gun is manufactured under consideration of appropriate performance and operability. Disassembling or modifying the gun may generate danger or adversely affect the performance. So, avoid dissembling or modifying the air gun.

該汽槍是根據適當的性能和操作而製造的。拆除或修改汽槍可能產生危險或者違反操作。因此要避免拆除或修改該汽槍。

Never look into the gun muzzle. 禁止直接目視槍口。

Never shoot at any human or animal. 禁止射擊人或動物。

Do not look directly into the muzzle to avoid accidental discharge of BB. 不要直接地看槍口，避免BB彈意外射擊。

Never aim or shoot a person or animal as the target. Always attach the protective plug to the muzzle. 不可把人或動物當作目標瞄準或射擊。

Make safe to operate an air gun after recognizing its features.
We are not responsible for any accidents, events, injuries or repair costs arising from wrong operation and handling or by modification and disassembly of the gun.

請確保在了解其特徵之後再使用該汽槍。
對於任何由錯誤操作或修改和拆卸汽槍所引起的意外事故，突發事件，受傷或修理費用，我們將不負責任。

THOROUGHLY UNDERSTAND THE WARNINGS AND CAUTIONS FOR SAFE OPERATION.

詳細閱讀說明書中要注意的操作，才能安全的使用本產品。

Read through this manual before shooting paying special attention for safe operation. 在使用前，請仔細閱讀本說明書，以便安全的操作本產品。 Always observe warnings and cautions strictly. Failing to do so may cause injury, accidents, or damage to the gun. 要嚴格遵守本產品中的警告及注意事項。否則將造成傷害或是槍支的損害。

1 Charging the battery (Battery and charger sold separately.)

電池充電器 (電池和充電器有單獨出售)

- Use the specified battery for the gun. 8.4V, 1100mAh Hyper Command Mini Battery. Avoid use of non-standard or other brand name batteries. Otherwise, the originally designed functions will not be obtained. 使用槍支專用的電池。8.4伏，1100毫安小電池。請避免使用非標準或其他品牌的電池，否則將達不到設計要求。

CAUTION 注意 The SD and Mini Battery can not be used. 不能使用SD和小類型的電池。

- Use the specified battery charger which is applicable to the above battery. The charger Exclusive Type ac Speed Charger. 使用上述電池專用充電器。
- The battery's capacity power is increased with use of the Exclusive (battery) Discharger (Sold separately) 使用專用的電池充電器會增加電池的儲能。(有單獨銷售)
- Use the correct battery and charge according to respective instruction manuals. We will not be held responsible for any accidents or damage caused by wrongful operation or usage of non-specified batteries. 請根據使用手冊使用標準的電池和充電器。如果沒有按照說明書操作或者使用非專用的電池而引起的事故或傷害，我們將不負責任何責任。

2 THE NAME OF THE PARTS (For details, see the following pages.)

各部分名稱 (具體請參照下面)

Gunbody cover (Battery Case) 槍身蓋 (電池蓋)
Upper wood 上蓋木
Selector lever (switch) 選擇器控制杆 (開關)
cocking lever 拉手
Magazine safety 彈匣保險
Magazine 彈匣
underside wood 下蓋木
Rear Sling Hook 後背帶鉤
gunstock release button 槍托解鎖按鈕
Grip 把手

Silencer 消焰器
Front sight 前瞄準器
Rear target sight 後準星
Side rail 側軌
Button on the gun 槍身按鈕
Front Sling Hook 前背帶鉤
Trigger 扳機
Folding Stock 可折疊槍托
Front Sight Adjustment Tool 前準星調整工具
Cleaning rod 槍通條

3 Selector lever and safety setting

選擇控制杆和安全裝置

- To prevent malfunction of the switch do not change the selector lever from semi to full auto while pulling the trigger. 為防止開關發生故障，在撥扳機時，不要將選擇控制杆從半自動改成全自動。
- Safety setting (the trigger cannot be pulled). (安全裝置 (不能按下扳機)) When you are not firing the gun or during storage always set the selector to the safe position. 當你不用槍或在裝子彈時，請將選擇器設置在安全位置。
- Fully automatic (automatic firing) 全自動 (連擊) The gun will fire automatically while the trigger remains pulled. 按緊扳機，汽槍將自動射擊。
- Semi automatic 半自動 The gun will fire one shot each time the trigger is pulled. 每按一次扳機，汽槍將發射一發子彈。

CAUTION 注意 Set the selector lever correctly in position otherwise, malfunction may occur. 將選擇控制杆設置於正確的位置，否則將會發生故障。

4 Setting the Battery (Set the battery after charging)

安裝電池 (用充電器先把電池充滿)

- Remove the receiver from its rear while pressing the receiver top catch button. 按下槍身頂部的按鈕，從後部卸下槍身蓋。
- Connect the battery to the cord that is accessible from the hole under the rear sight. Press in the battery with its protrusion facing to the left. 將電池接在後端孔伸出的線，電池突出部分朝向電池左邊并按下。

The protrusion must be on the left side. 突出部分必須置於左邊

Battery Sectional View 電池顯示圖

Connector nail 接頭

● Reinstall the receiver top in the reverse order of removal procedure in step(1). Align the lead edge of receiver top to the groove under the rear of receiver top, aligning to the groove shown below. 按步驟1的卸槍身蓋程序的相反順序重新安裝槍身蓋，槍身蓋的邊和槽邊堆砌，按槍身蓋後邊。

CAUTION 注意
When receiver top is set correctly, the catch button ejects out. 當按鍵彈出時，表示槍身蓋安裝正確。



5 SETTING THE MAGAZINE 安裝彈匣

● Open the cover of the magazine 打開彈匣蓋

● Insert 6mm BB bullets into the loader (500 bullets can be loaded) 將6mm BB彈裝入彈匣 (可裝入500發BB彈)

● Set the magazine upward. Install the magazine as illustration. 從上方安裝彈匣。可以按箭頭所示步驟安裝彈匣。

● Replace the magazine cover 蓋上彈匣蓋


1. First set the front. 首先裝前方
2. Press to the rear. 向後按
3. Press the release lever towards the trigger to lock. 朝扳機方向按下并鎖定。

● Move the gear with hand clockwise until it is fully wound, and the bullets will be sent up automatically. (It can send about 150 rounds automatically.) 以順時針方向扳動牙輪，直到上滿發，子彈就會自動往上送。(能自動送彈約150發)

CAUTION 注意
The magazine is capable of containing 500 BB bullets. 彈匣可裝500發BB彈。

CAUTION 注意
Always use the BB bullets for the air gun. We shall not be held responsible for any damage or accidents arising from the use of bullets supplied by other manufacturers. 這把氣槍只能使用標準的6mm BB彈。如果使用其他供應商提供的子彈而引起的損害和事故，我們將不負任何責任。

Magazine stopper relief rib. 彈匣自動裝置解除鈕。 Slide the rib in the arrow direction to remove remaining BB bullets. (Be careful since BB bullets may jump out.) 按箭頭方向移動解除鈕取出剩餘BB子彈。(小心BB子彈可能會跳出來)



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6 Moveable Parts 可動的零件

CAUTION 注意
Be careful so that your skin and fingers do not get caught in the folding parts. 小心你的手指和皮膚不要被折疊的部分傷到。



Press the gun stock release button ①, move forward the gun stock 按下槍托鎖定鍵①，然後槍托就可以按箭頭方向折疊到前面

INSTALLATION OF THE ELIMINATE BLAZE IMPLEMEN 消焰器的安裝

● While pressing the lock button. 按下鎖定鍵
● 旋轉消焰器

The eliminate blaze implement is fixed by counterclockwise as in the case of real gun 與真槍一樣，消焰器是用反方向鎖定的。

Variable hop-up adjustment lever 可變化的跳躍調整杆

● Insert the front sight adjustment tool in the front sight and turn it for adjustment. 將前準星調整工具插入前準星表，然後轉動以作調整。

CAUTION 注意
Be careful so as not to loose the adjustment tool. 注意不要鬆開調整工具。

Counterclockwise: lower sight point 順時針方向: 降低瞄準點
Clockwise: higher sight point 逆時針方向: 提高瞄準點

● The cocking lever can be moved. 拉手是可移動的

● Variable hop-up adjustment lever 可變化的跳躍調整杆



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● **REAR SIGHT ADJUSTMENTS 後瞄準器的調節**

Rear sight 後瞄準器
Long distance 遠距離
Short distance 近距離

Sight 瞄準器
press 壓


Elevation (up/down) adjustment button 仰角落(上/下)調節按鈕

The 047 series rear sight is a tangent type which is adjusted vertically according to distance to the target. 047系列汽槍的後視屬於相對獨立的類型，它是根據目標的距離垂直方向調整的。 Press the adjust button and slide it forward or backward to move the sight up or down. The larger the number, the longer the distance to the target. 按下調整按鈕向前或向後滑動以調整視野，數字越大，距離目標就越遠。

7 Firing (Confirm your shooting area is safe before beginning firing.) 射擊 (射擊前，確保射擊地方是安全的)

● Set the selector lever to Semi or Full Auto. 把控制杆從設置在半自動或自動的位置

● Pull the trigger 按扳機



CAUTION 注意
A blank firing may occur at triggering after the magazine, this is the normal operation of the gun. 當你裝上子彈開始射擊時，可能會有空白的射擊，這是屬於槍的正常的情況。

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CAUTIONS ON MOTOR AND BATTERY 發動機和電池使用注意事項

● Charge the battery if the firing cycle becomes slow. 當射擊速度變慢，請充電。

● Give the air gun a rest for 5 to 10 minutes after firing about 500 rounds, in order to ensure long service lives of the motor and battery. 為了確保發動機和電池的壽命，在射擊500發後，給氣槍5-10分鐘的間歇。

WHEN BULLETS ARE CLOGGED 當子彈阻塞時，應採取的措施

● If bullets are clogged, remove them and apply a few drops of silicone oil in to the chamber from the magazine entrances shown or spray silicone oil for 0.5 or 1 sec. to obtain smooth continuous. 假如子彈阻塞，把子彈取出來，為了以後順利的射擊，請從子彈匣的入口處往槍膛壁上噴上或滴幾滴潤滑油。

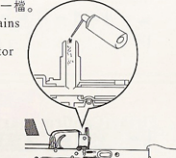
AFTER OPERATION 使用之後

● Remove the magazine and dry fire the gun in the semi auto mode directing the muzzle to a safe direction. (Otherwise the spring may be weakened.) Set the selector to the Safe position. 把子彈匣取出，在半自動的模式下，把槍對準安全的地方射擊。(否則，彈簧彈性可能會變弱)把選擇器設置到安全(safe)這一檔。

● Bullets may remain in the chamber even if the magazine contains no bullets (or if the magazine is not connected). Two or three bullets may drop from the magazine of the gun.) 即使彈匣裏沒有子彈，(或彈匣被取出後)子彈也可能會留在槍膛裏。

● Always disconnect the battery and attach the protective cap whenever you do not operate the air gun. 當你使用氣槍時，必須斷開電池。

Always attach the protective cap during storage.



CAUTION 注意
● There are possible cases that no firing occurs after pulling the trigger in the semi-auto mode. In this case, do not pull the trigger furiously. Fire 5 to 6 shots in the full auto mode and then return to the semi auto operation. 在半自動的狀態下，有可能你按扳機之後，子彈沒有射出來。遇到這種情況，不要猛烈地按扳機，在全自動的狀態下，射擊5到6發，然後再調到半自動的狀態下嘗試。

● Smell may be generated from motor for a while when a new air gun is operated. This is the normal operation of the gun. 剛開始使用新氣槍時候，可能會有一股味道。這股味道是電機運轉時產生的，這種情況屬於正常現象。

● The hopping up operation may be unstable for 200 to 300 rounds after using silicone oil, this is the normal operation of the gun. 使用潤滑油之後，槍支的前200到300發可能不太穩定，這種情況屬於正常現象。

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8 TROUBLE CLINIC(TROUBLE SHOOTING)
故障診斷 (維修之前請確認是否發生故障)

SYMPTOM 癥狀	CAUSE 原因	ACTION 方法
No operation at all 無法操作	Select or is set to safety. 選擇 (器) 杆調在安全這一檔 (Safety)	Set the selector lever to Semi or Full Auto 把選擇 (器) 杆調在這一檔 (Safety)
	Battery is not charged. 電池沒有充電	Charger the battery 給電池充電
	Battery connector is disconnected. 電池連接器被斷開	Connect the connector 連接連接器
	The + and - or battery connector is reversed. 電池的正負極連接器倒置	Connect the connector correctly (check the fuse) 正確連接連接器 (檢查保險管)
	Fuse is blown out 保險管爆裂	Relieve the fuse (See page) 重新裝上保險管 (見第12頁)
Although motor is removing, bullets jump out. 電機沒有發生故障, 但子彈無法正常發射。	Bullets are clogged in the magazine. 子彈阻塞在彈倉裏	Insert the charging rod into the magazine and move up and down a few times to remove clogged bullets 用裝載杆插進彈倉裏, 上下移動幾次, 把阻塞的子彈移出
	Bullets are clogged in the chamber. 子彈阻塞在 (槍) 膛裏	Remove clogged bullets using the cleaning rod 用 (槍支的) 清潔器把阻塞的子彈取出
Impossible full-auto operation. (Automatic firing) 不能連發 (子彈無法射出)	Insufficient battery power 電池電量不足	Charge the battery 給電池充電
	Faulty bullet feed of magazine 彈倉裏的子彈裝錯	Repair clogging the magazine 清理彈倉裏的堵塞物
Impossible semi-auto operation. (Single shot) 不能單發	Poor electrical connection 電線連接不好	Consult your dealer or us for overhaul maintenance or repair 向經銷商諮詢如何維修
	Deviation in gear timing 齒輪配對偏離	Set to semi auto firing 5 to 6 rounds in full auto 在全自動這一檔射擊5到6次後調到半自動

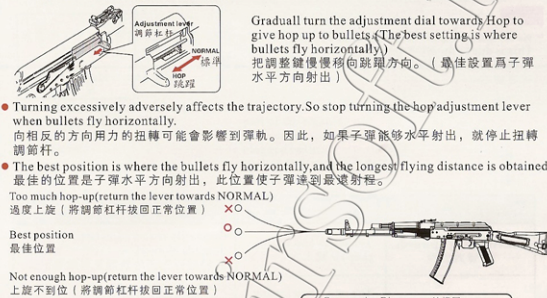
Use of poor quality BB bullets will cause problems. Never disassemble or modify the gun
如使用低質量的BB彈將出現問題。不要拆卸或修改槍支。

SYMPTOM 癥狀	CAUSE 原因	ACTION 方法
Impossible semi-auto operation. (Single shot) 不能半自動操作	Insufficient battery power. 電池電量不足	Charge the battery 給電池充電
Automatic firing become shorter. 連發射擊變慢	Insufficient battery power. 電池電量不足	Charge the battery 給電池充電
Shooting distance become shorter 子彈射程變短	Worn or damaged chamber packing (槍) 膛材料太舊或壞了	Consult your dealer or us for overhaul maintenance or repair. Replace the chamber packing, Piston packing (O-ring) and piston assembly 向經銷商諮詢如何維修。重新換上膛膛材料、活塞材料 (O形圈) 和活塞組裝件。
	Worn or damaged chamber packing (O-ring) 膛膛材料 (O形圈) 太舊或壞了	
	Deteriorated piston spring. 活塞彈簧損壞	
	Faulty BB bullets. (Too small or heavy) BB子彈不合格 (太小或太重)	Use the genuine BB bullet 使用質量合格的BB彈
Too loud operating noise 噪音太大	Faulty gear. 齒輪壞了	Purchase the replacement gear from your dealer and repair 向經銷商購買新的齒輪後進行維修
	Gear problem caused by too many blank firing or worn or damaged gear. 太多的空白射擊導致齒輪出現問題或舊齒輪老化或損壞	Consult your dealer or us for overhaul maintenance, part replacement (gear etc) or repair 向經銷商諮詢如何維修, 零件替換 (齒輪等)
Bullets being fallen out from barrel end. 子彈從槍管頭彈出	Gear problem caused by too many blank firing or worn or damaged gear. 太多的空白射擊導致齒輪出現問題	
	No hop setting 沒有設置HOP	Turn the hop adjustment lever toward HOP 把調節杆調到HOP位置
Being wet or drop into water. (rain) 槍支弄濕或被連水裏 (雨淋)	Worn or damaged chamber packing (槍) 膛材料太舊或壞了	
	Faulty BB bullets. (Too small) BB子彈不合格 (太小)	Use the genuine BB bullet 使用質量合格的BB彈
	Stop operation immediately, disconnect the battery, wipe off water from water from inside the main body and the battery, and after complete dry, carry out trial firing. If no operation or malfunction is detected, consult your dealer or us for repair. 立刻停止使用, 斷開電池, 把電池和槍支內部的主要部分擦乾, 等槍支完全幹了之後, 再嘗試射擊。假如無法使用或者發現故障。向經銷商或我們諮詢如何維修。	

9 VARIABLE HOP UP SYSTEM 可變化的Hop Up系統

By producing a back-spin to the BB bullets, this system allows for straighter and longer distance shooting than normal air gun. Unlike the fixed type, the variable hop up system permits one-to-four adjustments using the dial and lever, making it an ideal hop up system.
通過使子彈逆轉, 可以使射擊比一般的氣槍射得更直和更遠。不像其他的固定類型的氣槍一樣, 可變化的Hop Up系統可以使用轉盤和調節杆來進行調整。

Adjustment Procedure (Adjust by carry out trial firing)
調節程序 (通過試射擊來進行調節)



OPERATIONAL CAUTION
(strictly observe the following caution)
操作注意事項: (要注意以下的事項)

- Turning excessively adversely affects the trajectory. So stop turning the hop adjustment lever when bullets fly horizontally.
向相反的方向用力的扭轉可能會影響到彈軌。因此, 如果子彈能夠水平射出, 就停止扭轉調節杆。
- The best position is where the bullets fly horizontally, and the longest flying distance is obtained. 最佳的位置是子彈水平方向射出, 此位置使子彈達到最遠射程。
Too much hop-up (return the lever towards NORMAL)
過度上旋 (將調節杆放回正常位置)
- Best position 最佳位置
- Not enough hop-up (return the lever towards NORMAL)
上旋不到位 (將調節杆放回正常位置)
- Construction Diagram 結構圖
- Moving the lever too much towards HOP causes bullets to clog. Firing the gun with clogged bullets damages the piston and gears.
調節杆過度調向跳躍方向會導致子彈堵塞。子彈堵塞的情況下射擊會導致活塞和齒輪的損壞。
- If bullet clogging occurs, immediately stop firing the gun, return the hop lever to the Normal position and remove clogged bullets using the cleaning rod.
如果子彈堵塞, 請立即停止, 把跳躍杆調至正常位置, 用清潔器取出堵塞子彈。
- Make sure to return the hop adjustment lever to the Normal position when removing clogged bullets or cleaning. (Otherwise, the chamber packing is damaged.)
在取出堵塞子彈時或進行清潔時, 要把HOP調節杆調到正常的位置 (Normal) (否則可能會損壞槍膛)。
- Never use used or dirty bullets. (Otherwise, the chamber becomes dirty, resulting in unstable hopping up.)
不要重複使用子彈或髒彈。 (否則彈膛會變臟, 從而導致跳躍的不穩定)
- When about 1000 rounds are fired, spray silicone oil into the chamber for 0.5 to 1 sec. (See 11 on page 8. The hopping up operation may be unstable for 200 to 300 rounds after spraying the silicone oil. This is the normal operation of the gun.)
每擊大約1000發子彈, 用硅油噴彈膛0.5-1秒。 (在噴硅油後, 200-300發射擊的跳躍操作會不穩定, 這種情況屬於正常現象。)
- We will not be held responsible for any damage or accidents arising from wrongful operation, disassembly and modification of the gun. Any costs for repair of such damage shall be paid by the user.
由於錯誤操作, 重組裝或改裝氣槍所引起的損壞或意外, 我們一律不予負責, 由此產生的維修費用由用戶自行承擔。

- If the hop-up is adjusted excessively causing clogging of bullets, immediately stop operating the gun. Return the lever to Normal, fire 2 or 3 shots and readjust.
假如hop-up過多地調整可能會導致子彈的阻塞, 遇到這種情況, 立刻停止使用, 把調節杆調至正常射擊(Normal)狀態下, 射擊2到3發, 然後重新調整。
- Since a precision tight barrel is used, use of dirty bullets or those with burrs causes clogging of bullets and possible fatal damage to the mechanical box and system.
由於槍管非常精密, 如果使用髒的子彈可能會導致子彈阻塞和很致命的損壞槍支。
- Never hold the gun side ways as the BB bullets will curve tight to left. This is due to the HOP-UP system.
不要從側面握槍進行射擊, 因為BB子彈射出時可能會偏向左或者偏右。

WHEN HOPPING UP IS IMPROPER
跳躍不正常現象

SYMPTOM 癥狀	CAUSE 原因	ACTION 方法
Bullets flying upwards. 子彈向上飛	Too much hop setting (hop)設置太大	Gradually return adjustment lever towards Normal. 把調節杆逐漸地調到正常狀態。
Short flying distance of bullets (less hopping up effect). 子彈射程太短 (短于跳躍應有效果)	Too much hop setting (hop)設置太大	Gradually return adjustment lever towards Normal. 把調節杆逐漸地調到正常狀態。
	Hop packing contaminated by oil or dirt. Hop包裝被油或污垢 Worn or damaged hop packing Hop包裝太舊或被損壞	Fire bullets equivalent to 4 or 5 magazines or clean the chamber using cleaning rod. 用 (槍支的) 清潔器清潔槍膛。 Purchase the replacement part at your dealer or from Martui and replace it. 向經銷商或我們購買所需配件, 更換Hop裝置。
Cannot adjust. 不能調節	Damaged adjustment lever or other parts 調節杆或其他部件損壞	Purchase the replacement part at your dealer and replace it. 向經銷商購買所需配件, 更換Hop裝置。
Frequent bullets clogging. 子彈經常阻塞	Too much hop setting (hop)設置太大	Gradually return adjustment lever towards Normal. 把調節杆逐漸地調到正常狀態。
	Improper or too large sized BB bullets BB彈不合適或太大了	Use the BB bullets for Electric Gun. 使用標準BB彈。
	Dirty hop packing Hop包裝弄臟	Clean using the cleaning rod or consult your dealer for repair. 用 (槍支的) 清潔器清潔或者向經銷商諮詢維修。

MAINTENANCE 保養

1. Fuse Replacement Procedure 更換保險管

按P3 4-1方法打開槍身蓋，然後便可更換已燒壞的保險管

保險管位置

Glass tube fuse 保險管
You can buy it at a near-by electric shop or gas station. 你可以在附近的五金店或電器店買到它。
20A Fuse common for electric gun series. 常用於電動槍系列(20A)保險管。

2. Remove the obstruct bullets 拆卸堵塞子彈

Insert the cleaning rod into the bore. 沿槍管的內邊線插入清潔器。

Be careful so that the angled part of the cleaning rod faces down, and remove clogged bullets. 確保清潔器的角部分向下，並清楚堵塞子彈。

Chamber packing 子彈倉

The ornamental can not be used for cleaning the obstruct bullets. 附在氣槍上的裝飾修模型不能用於清除堵塞子彈。
Make sure to insert the cleaning rod AFTER returning the hop up lever to the Normal position. (Hop-OFF) 確保跳躍調整杠回復到正常位置才能插入清潔器。

3. Maintenance When Bullet Speed Become Low 子彈速度變慢時怎樣維修

Cut the cotton to the size shown. Adjust the length accordingly so that it can be inserted smoothly into the barrel. 將棉線剪成如圖所示才大小。適當調整長度，以便於將其順利地推進槍管裏。

Hold at the leading end of the rod and insert the rod into the barrel while turning the rod. 當調節前傾時，握住杆的末端把它插入槍管裏。

Inserting the rod will be difficult if you hold rod at the end. 假如你緊握清潔器的末端，清潔器插進去可能會很困難。

Since the chamber is a precision component, avoid use of used BB bullets. 由於槍腔是一個精確的部件，請避免使用用過的BB彈。

Always carry out maintenance AFTER returning the hop up lever to the Normal position. (Hop-OFF) 在將上旋轉桿撥回正常位置後，才能進行維修保養。

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Drop a few drops of silicone oil or Teflon oil from the bullet entrance, insert BB bullets into the magazine and fire bullets equivalent to 1 or 2 magazine. 從子彈的入口處滴幾滴潤滑油，把BB子彈裝進彈倉，射擊1或2次。

To complete the cleaning. Use the cleaning rod with cotton as shown below, to remove excess oil. 使用槍支清潔器按照以下說明除去多餘的潤滑油。

4. FINE ADJUSTMENT OF GEAR ENGAGEMENT 齒輪齒合的微調

Remove the screw from the grip bottom. 把手底部拆開螺絲。
M3 hexagon wrench M3六邊形扳手
Insert M3 hexagon wrench into the screw hole to adjust. 將M3六邊形扳手插入螺絲孔裏調整。

Only when the motor noise becomes high after operations for a long period of time, conduct the fine adjustment as shown. 若使用時間過長，電機發出很大的噪音時，請按如圖所示對電機進行微調。

Hold the grip during adjustment. Otherwise, the main body will drop since the grip set screw is removed. 在調整時要緊握把手。否則，主體會因為固定把手的螺絲被取下來了而掉出來。

It is recommended to lock the adjustment screw by a screw locking agent or instantaneous adhesive after adjustment of the motor position is complete. 建議你在馬達位置調整完成後，使用螺絲釘固定劑或瞬間黏合劑固定調整螺絲釘。
Normally do not attempt to adjust. 通常不要隨便調整。
Be careful as not to overly tighten the screw as it will damage the gun. 注意不要過度擰緊螺絲釘以免損壞氣槍。

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1. Silencer	1. 消音器	44. Spring (00.45x00.45x139+54T)	44. 彈簧 00.45x00.45x139+54T
2. Front gun tip	2. 槍頭	45. Spring located slice	45. 扭簧限位片
1A. 047D Silencer	1A. 047D 消音器	46. Gun body cover release	46. 槍身拆鎖彈簧
2A. 047D Front gun tip	2A. 047D 槍頭	47. Gun body cover	47. 槍身蓋
3. Front sight	3. 前準星	48. Gun barrel connect link	48. 槍管連接桿
4. Silencer fix stalk	4. 消音器固定柱	49. Main gear box	49. 齒輪箱
5. Spring (00.4+03.9+16+12T)	5. 彈簧 00.4+03.9+16+12T	50. Fire selector	50. 射擊選擇器
6. M3x6 Screw	6. M3x6 螺絲	51. Outer fire selector	51. 射擊選擇器外殼
7. M3x3 CMHO	7. M3x3 CMHO	52. M4x10 TMHO	52. M4x10 TMHO
inner hexagon 2.5mm	螺絲頭內六角2.5mm	53. Fire selector ring	53. 射擊選擇器環
8. 02.5x16.5 shaft	8. 02.5x16.5 彈簧花軸	54. Fire selector cobby barrel	54. 射擊選擇器彈簧筒
9. Lead windpipe	9. 導風管	55. Located slice	55. 定位卡
10. Up gun guard cap	10. 上彈木蓋	56. Gun body	56. 槍身
11. M3x3 Screw	11. M3x3 螺絲	57. M3x8 KMHO	57. M3x8 KMHO
12. Up gun guard	12. 上彈木	58. Gunstock lockpin	58. 槍托固定銷
13. Up gun guard back cap	13. 上彈木後蓋	59. Lockpin spring (00.8x0.4x4+19T)	59. 鎖銷彈簧 00.8x0.4x4+19T
14. Down gun guard front cap	14. 下彈木前蓋	60. Sizer nail	60. 尺寸調整釘 00.8x0.4x10+4
15. Down gun guard	15. 下彈木	61. M3x6 TMHO inner hexagon 2mm	61. M3x6 TMHO 內六角2mm
16. Decoration	16. 裝飾片	62. Rigger loop	62. 扳機環
16A. 031D Decoration	16A. 031D 裝飾片	63. M3x8 PMHO	63. M3x8 PMHO
17. Out gun barrel	17. 槍管	64. Gun grip	64. 槍托
17A. 031D Out gun barrel	17A. 031D 槍管	65. M4x5 TMHO	65. M4x5 TMHO
18. Left Hop up seat	18. 左跳躍座	66. Gunstock	66. 槍托
19. Right Hop up seat	19. 右跳躍座	67. Gunstock joint shaft	67. 槍托固定軸
20. Up gun guard located nail	20. 上彈木定位釘	68. Wire	68. 鋼絲
21. M3x5 KMHO	21. M3x5 KMHO	69. Magazine cover	69. 彈倉蓋
22. M3x14 PMHO	22. M3x14 PMHO	70. Magazine rear cover	70. 彈倉後蓋
23. M3x8 PMHO	23. M3x8 PMHO	71. 02x21.5 shaft	71. 02x21.5 花軸
24. Spring (00.4+03.4+18+18T)	24. 彈簧 00.4+03.4+18+18T	72. 02x21.5 shaft	72. 02x21.5 花軸
25. Staff gauge panel	25. 厚尺面板	73. Right trajectory	73. 右準星
26. Staff gauge	26. 厚尺	74. Left trajectory	74. 左準星
27. Staff gauge release spring	27. 厚尺拆鎖彈簧	75. Sear	75. 上鎖牙輪
28. Staff gauge release	28. 厚尺拆鎖器	76. Searback spring base	76. 上鎖牙輪彈簧底座
29. Spring (00.4+03.9+7.5+6T)	29. 彈簧 00.4+03.9+7.5+6T	+clockwork spring	+發條彈簧
30. HOP-UP	30. 跳躍	+clockwork spring cover gear	+發條彈簧蓋齒輪
31. Rubber selector	31. 橡膠選擇片	77. Diver	77. 彈殼牙輪
32. Selector	32. 選擇器	78. Wire	78. 鋼絲
33. Gun barrel connect link	33. 槍管連接桿	79. G&S spring	79. 扳機彈簧
34. Block	34. 扣手塊	80. Magazine cover	80. 彈倉蓋
35. Nail	35. 鐵釘	81. Bullet block	81. 子彈卡
36. Hop-up cylinder rubber	36. 跳躍彈簧筒橡膠	82. Spring (00.4+03.9+7.5)	82. 彈簧 00.4+03.9+7.5
37. M2.5x6 PWAHO d=05.0	37. M2.5x6 PWAHO d=05.0	83. 02.6x10 PAHO	83. 02.6x10 PAHO
38. 02.0x4 PWAHO d=05.0	38. 02.0x4 PWAHO d=05.0	84. Ballistic transition nail	84. 彈簧彈簧釘
39. 02.0x4 KBHO	39. 02.0x4 KBHO	85. Stock button	85. 槍托按鈕
40. Hop-up rubber	40. 跳躍橡膠	86. Reclun cover	86. 槍托後蓋
41. Inner barrel sleeve	41. 槍管套	87. Double wing spring	87. 雙翼彈簧
42. Inner barrel	42. 槍管	88. Stock rear cap	88. 槍托後蓋
42A. 047D Inner barrel	42A. 047D 槍管	89. 04x12 OBHD	89. 04x12 OBHD
43. Cocking lever	43. 扳機		

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