

## 1/16 SCALE 2.4GHz RADIO CONTROLLED BATTLE TANK

# M60A1 / M60A3 U.S.A

AUTOMATIC ELECTRIC GUN SYSTEM INSTALLED. PERFECT ACTIONS RADIO CONTROL BATTLE TANK

### M2022-1



## M60A1 WERA U.S.A

### M2022-3



## M60A3 U.S.A



前置双LED大灯  
FRONT PARKING LIGHT



全比例遥控  
FULL-SCALE RC FUNCTIONS



仿真冒烟可开关控制  
THE SIMULATED SMOKE EFFECT CAN BE SWITCH ON/OFF



红外线对战功能  
INFRARED BATTLE FUNCTION



炮台320°/360°旋转  
THE TURRET ROTATES 320/360 DEGREES



炮管上下升降  
GUN WITH ELEVATING GEAR



仿真发动机启动声、发动机声、机关枪声、炮声、带仿真动作、声音  
可以调节、音效模式切换  
SIMULATIVE ENGINE, MACHINE-GUN AND GUN SOUND EFFECTS.  
EMULATIVE ACTIONS WITH ADJUSTIVE VOLUME AND SWITCHABLE  
SOUND EFFECTS

## M2022

# 使用说明书

## INSTRUCTION MANUAL

NEW ACCESSORIES  
REALISTIC SMOKING FUNCTION  
MORE THAN 1 TANK CAN BE  
OPERATED AT THE SAME TIME

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## 警告(Warning)

- ※ 本产品含有小零件请勿让三岁以下儿童玩耍；本品含电气元件，不得入水或在潮湿环境下使用；请勿折断遥控天线，以免造成伤害；电池充电器应定期检查其电线、插头、外壳和其他部件是否损坏，发现损坏时应停止使用，直至修复完好。
- ※ 本产品所包含的电子控制系统，电机，充电器，电池，喇叭等电子元器件都经过我司的安全设计和测试，使用者不得随意更换为非我司出品的配件，如使用者随意更换改装而导致产生非安全事故或者隐患，本公司不承担任何责任。
- ※ Choking Hazard! This product contains micro-parts. Not suitable for children under 3 years old. Electrical components should be kept dry at any time. Do not attempt to break antennas, This may cause serious to a child or adult. Battery charger, wires, plugs, Hull and other components are required regular check. In case of Fault, Please switch tank off until it have been repaired.
- ※ The electronic control system, motor, charger, battery, horn and other electronic components contained in this product have passed the safety design and test of our company. Users are not allowed to replace the accessories of this product with the accessories not produced by our company at will. If this product is re-equipped at will by the user and causes non safety accident or hidden danger, our company won't take any responsibility for this.

## 注意事项(Caution proceeding)

- 1、可拆卸的小零件要放好，千万不可让小孩吞食。
  - 2、如操作场地有电波干扰，请另选场地操作。
  - 3、遥控器电源低电时，请立即停止操作。
  - 4、对拆除的包装物，请不要随地丢弃，以免污染环境。
  - 5、请将你的遥控模型存放在干燥，阴凉的地方。
  - 6、不要置于近火和高温、潮湿的地方储存。
  - 7、当电池被水浸湿，请将水分充分的擦拭干净。
1. Disassembly micro-parts should be stored safely, and avoid eating it by children.
  2. If electric disturbance be detected, Please switch tank off and transfer to another area.
  3. Remote Control will not operate correctly When the battery is running low. Please dispose the used battery.
  4. Deal with the package cautiously, and avoid polluting the environment.
  5. Place the Model Tank in dry and cool.
  6. Do not place the Model Tank near heat, or in damp.
  7. Keep the battery dry.

## 电池使用注意事项(Battery use caution proceeding)

- 1、车体使用一组7.2V / 7.4V可充电电池组；
  - 2、安装或更换电池时请注意极性；
  - 3、充电电池只能在成人监护下充电，且须用本产品所配套的充电器充电，否则会有危险；
  - 4、不可混用新旧或不同型号的电池；
  - 5、电源端子不应短路；
  - 6、非充电电池不可充电；
  - 7、请不要将坏的电池、电池组分解或扔到火中、水里，以免发生意外；
  - 8、充电器的额定输入电压必须与当地的家用电压相符；
  - 9、在充电过程中，充电器和电池出现微温，属于正常现象。
1. Main Tank body uses a set of 7.2V / 7.4V rechargeable batteries;
  2. Please pay attention to correct polarity when replacing batteries;
  3. Rechargeable batteries should be charged under adult supervision, and must be used with this product matching charger to charge, otherwise there will be danger;
  4. DO NOT use a mix of old and new or different types of battery;
  5. DO NOT short circuit any terminals;
  6. DO NOT attempt to recharge non rechargeable batteries;
  7. DO NOT put batteries into a fire or into water;
  8. The rated input voltage battery charger MUST be suitable for your mains power voltage;
  9. During charging it is quite normal for the charger and batteries to heat up.





# (使用说明书)使用前详阅本说明书

(Operating instructions) Please read through this manual before use.

这辆RC(遥控)战车坦克是由无线电控制的模型,而非玩具,装在车内的电动炮和塑料弹可发射20-30m,要小心使用,否则会误伤,请详阅下列各点,理解透彻后再作游戏。

The RC(Radio controlled) Battle Tank is not a toy but a model. It controlled by radio signal. The RC Tank can shoot Ball Bullets by automatic gun system, and that gun system is so powerful. So you should read the instructions and recommendations carefully prior to operating.

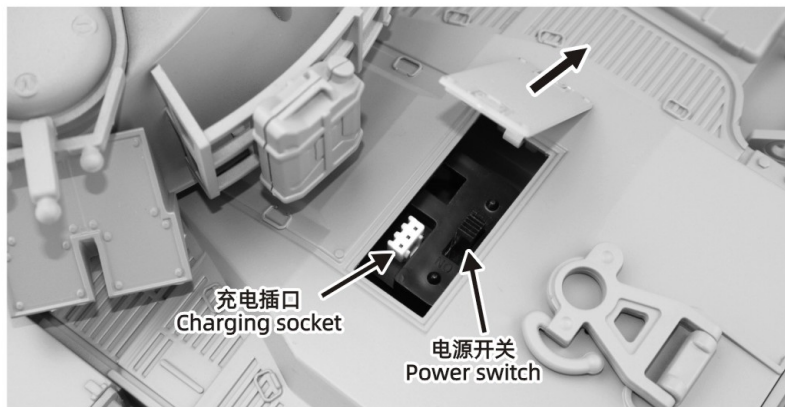
Failure to follow the instructions and recommendations in this owner's manual may result in bodily injury including face, eye, and ear injury, blindness, deafness or death.

## 坦克装有炮弹,不小心发射或错误使用都会有危险!

The RC Tank can shoot Ball Bullets, So you must Check Whether The Tank is loaded or not Before you fire the gun.

	<p><b>请戴上护目镜</b> Please wear your shooting glasses.</p> <p>在发射子弹时,本人和周围的人都要戴上护目镜。如果子弹碰到硬物,会弹回伤害到人,要小心。(也要注意勿伤到他人) You and others with you MUST wear shooting glasses to protect your eyes. Do not shoot at hard surfaces. The BB may bounce off or ricochet and hit someone or something you had not intended to hit.</p>		<p><b>控制后把主开关置“OFF”</b> Switch to OFF after playing</p> <p>① 把BB炮弹取出(翻转车身,把炮弹取出) ② 拆下电池(否则由于自然放电会引起漏液)</p> <p>① Unloaded The Ball Bullets(Turn the tank over, and pour The BB out) ② Remove the batteries.(Otherwise, the batteries will discharge and leak)</p>
	<p><b>不可朝人和动物发射</b> Never shoot at anybody or animals.</p> <p>不可让坦克瞄准人和动物发射,否则可能以伤害罪被处罚。 Never point the gun at anybody or animals. Otherwise, you will be punished for crime of injury.</p>		<p><b>任何时候都不可窥视发射口</b> Never look into the gun muzzle.</p> <p>不管里面是否有炮弹,不可窥视发射口,以免伤到眼睛,如无线电波不佳时,由于误操作可能会发射出来,非常危险。 To protect your eyes, never try to look into the gun muzzle, whether there is bullet inside or not. Please also note that accidental shooting may be triggered when the radio signal is poor.</p>
	<p><b>不可在马路等有汽车的地方行走</b> Do not play the tank on the roads.</p> <p>为避免交通事故,不可在马路上行走,也不要在水洼地、沙地等难以行走之处玩,以免发生故障。 Never run RC Tanks on the roads. Never run RC Tanks in crowded areas. Never run RC Tanks on waterpit, sands, or carpet.</p>		<p><b>不可在人和汽车横过的地方发射</b> Never fire the gun in crowded area.</p> <p>在这些场所发射有可能意外伤人,决不可发射。 Never fire the gun in crowded area or on the street.</p>
	<p><b>防止小儿误吞零件</b> Keep out of reach of small children</p> <p>不可把小零件和塑料袋给小儿玩,以免误吞。 Children must not be allowed put any parts in their mouths, or pull vinyl bags over their head.</p>		<p><b>不可把手伸入车轮和履带</b> Do not put hands into the wheels or the caterpillars.</p> <p>不可把手伸入车轮或履带以免误夹伤,小孩需特别小心,当拿坦克时不可拿住车轮以免由于误操作而受伤害。 Do not put the hands into the wheels or the caterpillars to avoid hurts. Do not touch the wheels or the caterpillars when holding the tank to avoid hurts by misoperation.</p>

## 电源开关和充电插口 Power switch & Charging socket





错误使用、改造和分解而造成的伤害、事故，本公司概不负责，且不负责改造、分解后商品的修理。  
We will not be responsible for any hurts or accidents caused by user's abuse, dismantling or modifying.  
The Following will void your warranty: Physical abuse, Use of poor quality BBs, Disassembly, Internal upgrades.

- ◆ 不可把发射口对准容易损坏的物品(如玻璃、灯、家用电器、餐具、家具等)。
- ◆ 除了本公司指定的BB弹以外，其他子弹容易造成堵塞，不可使用。投入口和发弹口不可放入BB弹以外的其他物品。
- ◆ 使用说明书妥善保管好，丢失时可向本公司邮购。
- ◆ 不可强行分解和改造，否则会造成故障和危险，绝对不可以。
- ◆ 坦克和遥控器浸入水中或弄湿时可能会出现故障，这时要禁止使用，并拆下电池，与本公司的售后服务部联系。
- ◆ 不可把坦克和遥控器置于阳光强烈照射处，否则会变形和误操作。
- ◆ Never point the gun at fragile objects(such as glass,lamp,electric appliance,tableware or furniture).
- ◆ Please loaded specified BBs.Use poor quality or different size BBs may cause jam.Don not load other objects into Tanks's magazine.
- ◆ Keep the manual properly. If it be losted, please contact us through social media,Email etc.
- ◆ Never try to dismantle or modifying RC Tanks,Otherwise It will cause danger, and make cause danger at the same time.
- ◆ Keep RC tanks and Transmitter far from liquid and keep dry.If RC tanks and Transmitter get weted,then stop running and remove the batteries. Contact us if it necessary.
- ◆ Keep RC tanks and Transmitter far from sunshine,Otherwise it will be deformed or can not operate correctly.



**若无视里面的警告，自行进行错误操作，会发生误伤和诱发故障。绝对要遵守各注意事项。**  
Please read and understand the instructions before operating the model, and avoid Hurts and malfunctions.



**本战车用于室内竞技，在户外时不可在下述场景使用。**  
This battle tank is for indoor use only! Please avoid the following misuses.

该战车制作精密，需小心，不可乱碰撞；不可让灰尘、小石等侵入车子内部和齿轮。（遥控器也同样）  
(否则即使在保修期间也由顾客负担！)

RC Tank is a precision product.Please prevent dust,rocks entering into hulls and transimiter.Otherwise,it will make the warranty void.



车子跌落、碰撞等强烈的冲击会造成故障。  
Violent shocks caused by fall or bump may lead to malfunction.



不可在有积水的地方行走(遥控器也不可弄湿)  
Do not play the tank in a place where it could easily get wetted. (The remote controller should also be kept dry.)



户外的沙地、凹凸不平处，灰尘多的地方也不可行走。  
Do not play the tank on sands or other uneven surfaces or in a place with too much dust.



不可在草地、沼泽地等阻力大的地方行走。  
Do not play the tank on lawn or other places that may cause excessive resistance.



投入口不可装入指定BB弹以外物品。  
Do not put another objects into Tank's magazine.



- ◆ 需另购的物品(遥控器电池)  
Articles to be purchased (controller's batteries)

- ◆ AA电池4粒(用于遥控器)  
4x AA Batteries (For controller)



**使用工具时注意安全**  
Keep yourself safe when using tools

**电池的注意事项 Battery-related caution**

不可使用破损电池，以免发生短路危险。✗  
Do not use broken batteries to avoid short circuit.



发射时戴上护眼镜，确保安全。  
Please wear shooting glasses to ensure play safely.







## 警告(Warning)

尊敬的用户:

本产品是配置一种环保节能的锂电池作为供电电源, 请您在使用中严格遵守使用规则, 这样您的锂电池才能正常使用。

- 1、首次使用锂电池组时须先充满电再使用。
- 2、每次使用后(不论使用时间长短)都应取出电池重新充电, 保持电池处于带电状态。
- 3、当使用电池达到电量极限时, 须尽快充电, 如在电池过放电情况下, 搁置不充, 会严重损伤电池的寿命及性能或导致电池永久性损坏。
- 4、电池组不能使用处于极热环境中, 如阳光直射或热天的车内, 否则, 电池组过热, 这样就会影响性能、缩短电池组的使用寿命。
- 5、环境温度会影响放电容量, 环境温度超标准环境时 ( $25^{\circ}\text{C}\pm 5^{\circ}\text{C}$ ), 放电容量会有所降低。
- 6、电池组在充放电过程中, 如果出现异味、异常声响, 请立即停止充电或放电。

Dear users:

This product is equipped with an eco-friendly and energy- saving lithium battery as the power supply. Please strictly abide by the instructions while using it, so that your lithium battery can work normally.

1. Before the first use, the lithium batteries must be fully charged.
2. The battery should be recharged after each use (no matter how long it was used) to keep the battery charged.
3. When the battery is about to run out, it should be recharged as soon as possible. If the battery is not recharged in case of over-discharge, the battery cycle life and performance will be seriously damaged or the battery will be permanently damaged.
4. Batteries cannot be used in extremely hot environments, such as under direct sun light or in a car in hot weather. Otherwise, the overheated batteries will affect the performance and shorten the cycle life.
5. Ambient temperature will affect the capacity of electric discharge. When ambient temperature exceeds the standard environment ( $25^{\circ}\text{C}\pm 5^{\circ}\text{C}$ ), the capacity of electric discharge will decrease.
6. During the charging and discharging of the batteries, if an abnormal odor or sound appears, please stop the charging or discharging immediately.

## 电池注意事项(Caution)

- 1、电池充电时, 务必使用本套材内专用的USB充电线, 以免造成危险!
- 2、请小心维护电池, 按标准充电时间为电池充电, 以延长使用寿命, 避免不当使用而造成电池损坏。
- 3、勿将正负极接反! 勿将电池组投入水中或将其弄湿!
- 4、禁止在火源或极热条件下给电池组充电! 勿在热源 (如火或加热器) 附近使用或贮存电池组! 如果电池泄漏或发出异味, 应立即将其从接近明火处移开。第一次使用电池, 需将电池充满电后再使用。
- 5、勿将电池组投入火中或给电池组加热!
- 6、禁止用导线或其他金属物体将电池组正负极短路!
- 7、禁止用钉子或其他尖锐物体刺穿电池组壳体, 禁止锤击或脚踏电池组!
- 8、禁止以任何方式分解电池组和电池!
- 9、禁止将电池组置于微波炉或压力容器中!

1. When the battery is getting charged, please use the special USB cable of this material to avoid danger!
2. Please take good care of the battery pack. Before charging, please charge the battery pack according to standard charging time to prolong its service life, avoid damage of battery caused by improper use.
3. Do not reversely connect the positive and negative poles! Do not put the battery pack in to the water or wet them!
4. Do not charge the battery pack under fire or extremely hot environment! Do not use or store battery pack near heat sources, such as fire or heaters! If the battery leaks or smells, please remove it immediately from the place that is close to the open fire. Before the first use, the battery should be fully charged.
5. Do not put the battery pack into the fire or heat them!
6. Do not use wires or other metal objects to short-circuit the positive and negative poles of the battery pack!
7. Do not use nails or other sharp objects to pierce the battery pack shell; do not hammer or pedal the battery pack!
8. Do not disassemble the battery pack or the battery in any way!
9. Do not put battery pack in microwave ovens or pressure vessels!

## 安装零件前务必检查是否正确操作

Please check the functions of RC tank before installing accesories.

万一无法正确操作，请联系售后服务部或所购买的商店。

If you find the tank cannot function properly, please contact our after-sales service center or the shop that sold it to you.

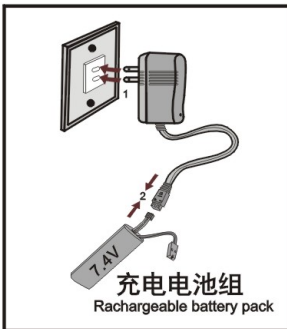


**注意** 装上了零件的商品不能更换，这时被认作是修理。  
If the accessories has been installed,RC tank can not be exchanged.Only repair service is avaiable.



**警告** 若电池正负极接反，会引起漏液和故障，要小心。  
Please do not install anode and cathode of battery reversely.Other it will make batteries leak.

## 充电：平衡充充电(选购) Charging: Balance charger charging(Additional purchase)



### ※双插头电池:无内置智能保护板 Two-plugs battery:No intelligent protective board

- ① 将充电器插头插入电源插座，这时充电器上的绿灯(电源/充电指示灯)亮起。再将充电器电源输出插头连接到充电电池接头，此时充电器上的绿灯变成红灯，表示正在充电。当充电器上的红灯变成绿灯时，则表示充电电池电量已充满，此时充电结束。充电时间大约为2小时。
- ② 充电完毕，把充电器插头拔出。
- ① Insert the charger plug in to the socket,then the green light on the charger(power/charge indicator) light. Then connect the will charger power output to the rechargeable battery connector. At this time the green light on the charger become the red light.When the red light on the charger turn into a green light,the power is full ho more charging.It takes about 2 hours.
- ② Charging is over,uplug the charger.

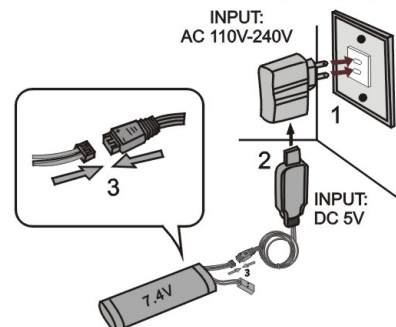
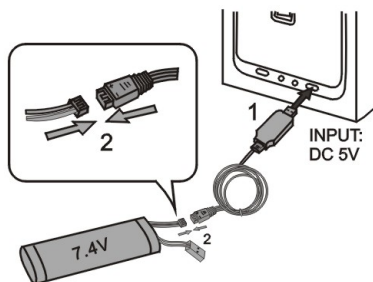
### 注意 Caution

- ① 充电器的额定输入电压必须与当地的家用电压相符；
- ② 充电时，充电器和电池会微热属正常；
- ③ 在插入或拔出充电器时，要注意手指不能接触到充电器的端子；
- ④ 插头连接时，务必认清正负极。
- ① The rated input voltage battey charger with the home must be in line voltage;
- ② When charging, it is normal that the transformer and the battery may get mild heat;
- ③ During the insertion or removal of transformer, please pay attention that the finger should not be contacted to the end of the transformer;
- ④ The plug connection, must recognize the positive and negative pole.

## 充电: USB充电线充电(标配)

### Charging: USB charger line charging (Standard)

- ① 将USB充电线插入电脑的USB插口(如图)，或插入手机充电器的USB插口(如图)，此时USB充电线电源指示灯红灯亮起。
- ② 再把电池的插头与USB充电线的充电插头按正确极性对接(如图)，此时USB充电线充电指示灯绿色灯闪烁，进入充电状态，约4小时后充电指示灯绿色灯变为长亮，此时充电完成。
- ① Insert the USB cable into the USB socket of the computer or plug into the cell phone charger USB socket.(as shown) At this time, the indicator of the USB cable red light is on.
- ② Connect the battery plug with the USB charging plug according to the correct polarity (as shown) At this time,the green light of USB charging indicator start flashing, This is the charging state. About 4 hours later, the green charging indicator will turn on from flashing, charging completed.



- 1、本电池内置智能保护板。
- 2、本USB充电线为本产品中的7.4V带保护板锂电池专用的，严禁为其它任何电池充电，否则造成危险，后果自负！
1. Built-in battery intelligent protective board.
2. This USB charging wire is special for 7.4V lithium batteries with protective plate. It is forbidden to charge any other batteries, otherwise it will cause danger and the company won't bear the consequences!



## 注意 Caution

- 使用过的BB弹沾上了灰尘，不可再用  
Once BBs have been shot, it will get dirty. dirty BBs are not suitable for reuse.
- 若BB弹附有灰尘和沙子，可能会堵塞弹道，并导致内部故障。  
Tiny sands will be reminded on the surface of Used BBs.those sands will jam the gun and break the inner mechanism.
- 不可强行装入子弹，否则会发生故障。  
Do not overload the magazine with BBs, it may make the gun jam.
- 使用0.2g以上的重弹时，子弹飞得不会太远。  
If BBs's weight over 0.2g,it can not be shotted far enough.



## 如果子弹堵塞 If the bullet jam

如果弹匣中进入灰尘等，BB弹的流动不会顺畅，无法很好地发射，甚至会引起子弹堵塞。出现这种情况时要立即停止发射，把弹匣朝下轻轻摇动战车，把BB弹和灰尘倒出来，甚至可以把炮塔盖拆下，从间隙吹入气体把灰尘吹出来后再装入BB弹。

If tiny sands or other foreign matter can jam the gun. if the gun will not fire smoothly, even been jamed. Please do not try to fire the gun again.

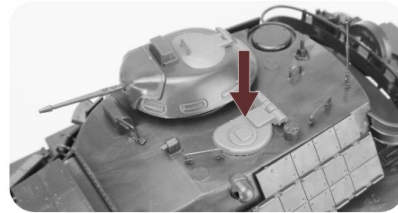
Turn the Tank over and shake sands or other foreign matter out. You can remove the upper turret and blow into the gap to clean dusts before loading.

## BB弹的装填 How to load BBs

- ①打开BB弹投入口，约投入100颗BB弹  
Open the bullet hatch and load BBs  
(the max capacity of the magazine is 100)



- ②关闭BB弹投入口  
Close the bullet hatch.



使用下列不良炮弹会损坏内部机件 Never use the following BBs:



超过6mm直径的BB  
Diameter larger than 6mm



偏心的BB  
Both halves not aligned



有凸部的BB  
With edges

- 弹道改良系统的说明  
briending of hop-up system
- 如下图所示，飞行距离大幅度提高  
Flying distance becomes much longer, as the picture shows.

- 弹道改良系统的弹道 BBs' s trajectory with hop-up system

没有弹道改良系统的弹道 BBs' s trajectory without hop-up system



RC坦克上带有弹道改良系统

The RC tank is equipped hop-up system.

这个系统通过一定的空气压力，在发射出去的BB弹上加上强烈的后旋转，这样就产生上升力使子弹尽量向远方发射。

Hop-up system can make BBs spinning backward along its path,So that BBs have enough energy to hit targets at long distances.

## 红外线接收器安装方法 How to install an infrared receiver unit

如下图，购买2辆或以上带有红外线对战系统的坦克并按图示方法，将红外线接收器插头按正确方向连接到坦克炮台上指定的插座上，同时也将红外线接收器固定到指定的磁吸位置上。

Operation requires the use of two or more tanks with a Battle System. Connect the infrared receiver unit's plug to specified sockets on the turret, then put the infrared receiver unit on the specified magnetic position.

- 第一步:把红外线接收器插头按正确极性插入插座中

Step 1: Connect the infrared receiver unit's plug to sockets on the turret

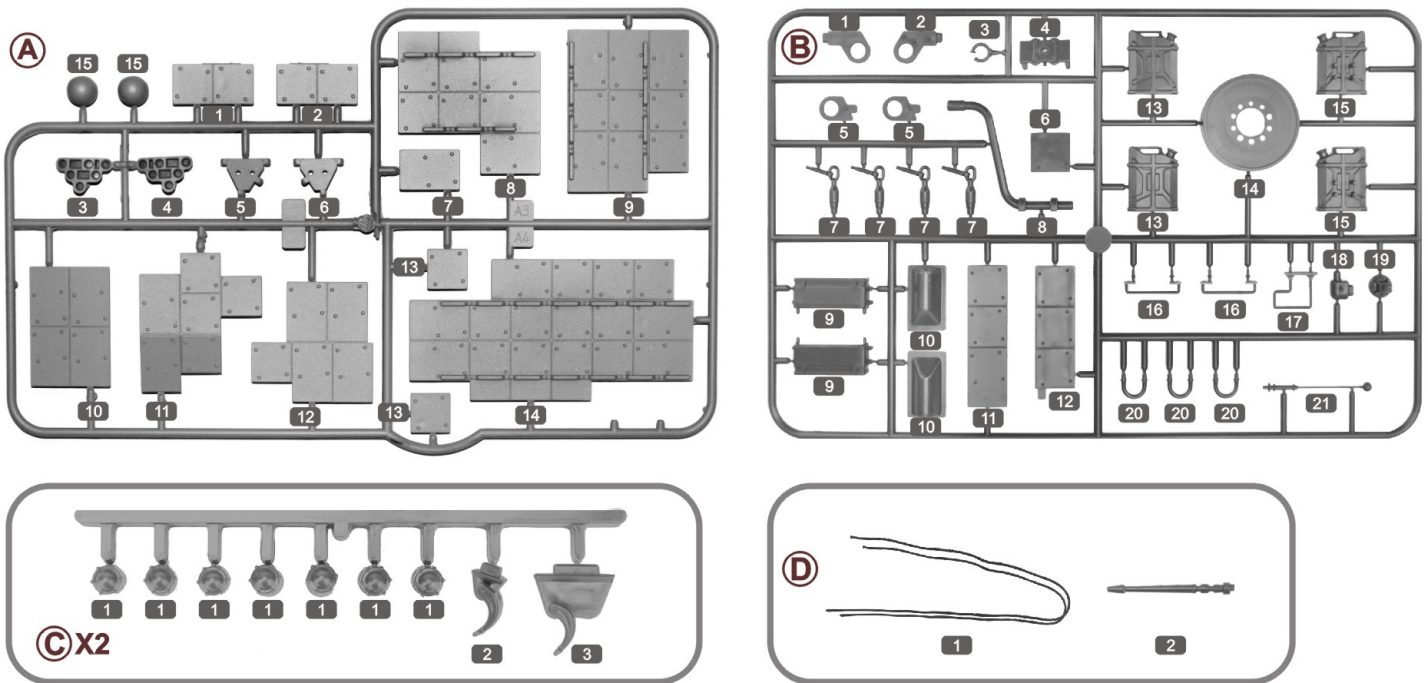


- 第二步:把红外线接收器固定在磁吸位置上

Step 2: Put the infrared receiver unit on the specified magnetic position.

# 附属零件的安装 M60A1 WERA U.S.A How to install accessoris

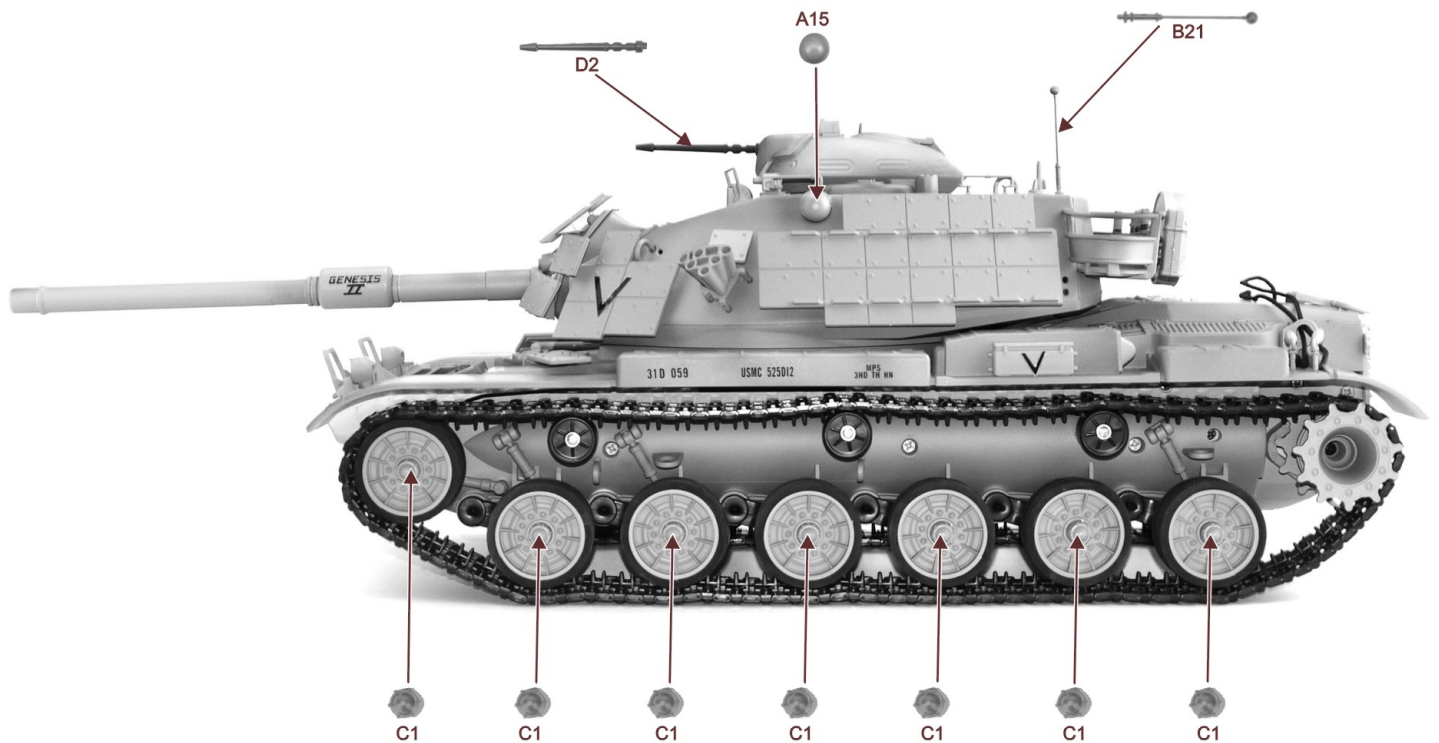
## 附属零件 APPENDANT PARTS



## 附属零件的安装 HOW TO INSTALL APPENDANT PARTS

### ⚠ 注意 Caution

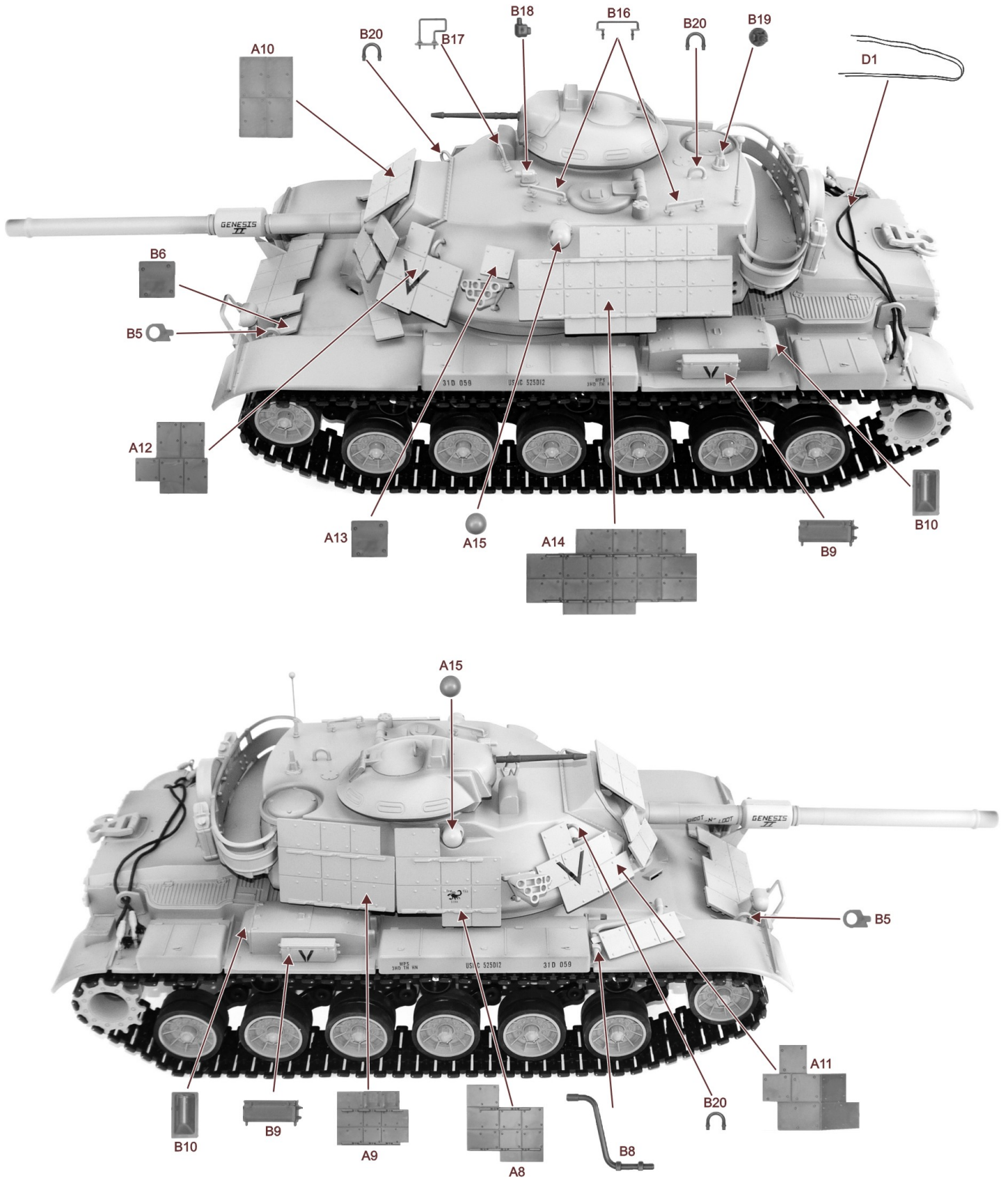
安装自装部件时，若部位孔位太过松动请自行用瞬间粘着剂粘合；若部位孔位狭窄，请自行用工具处理。  
Tools are required for construction, such as cement and Diamond file.





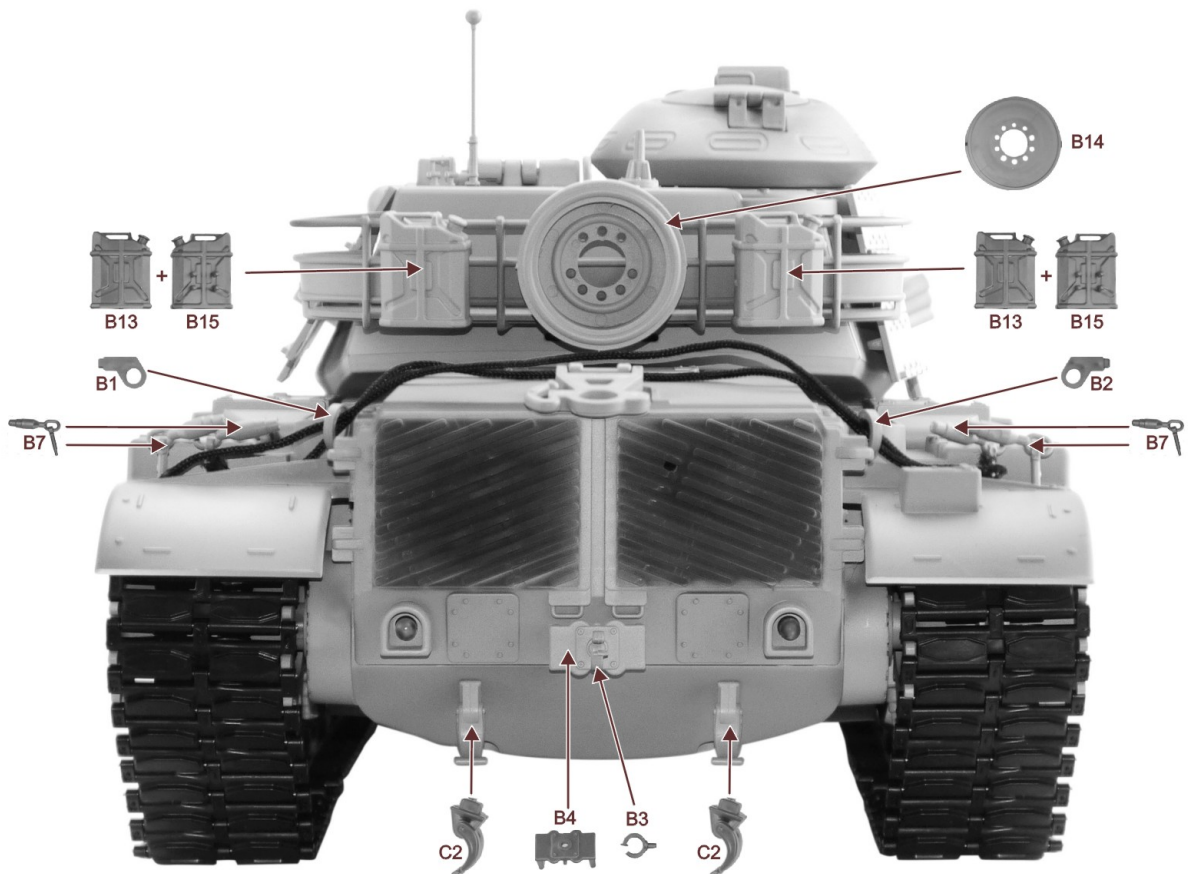
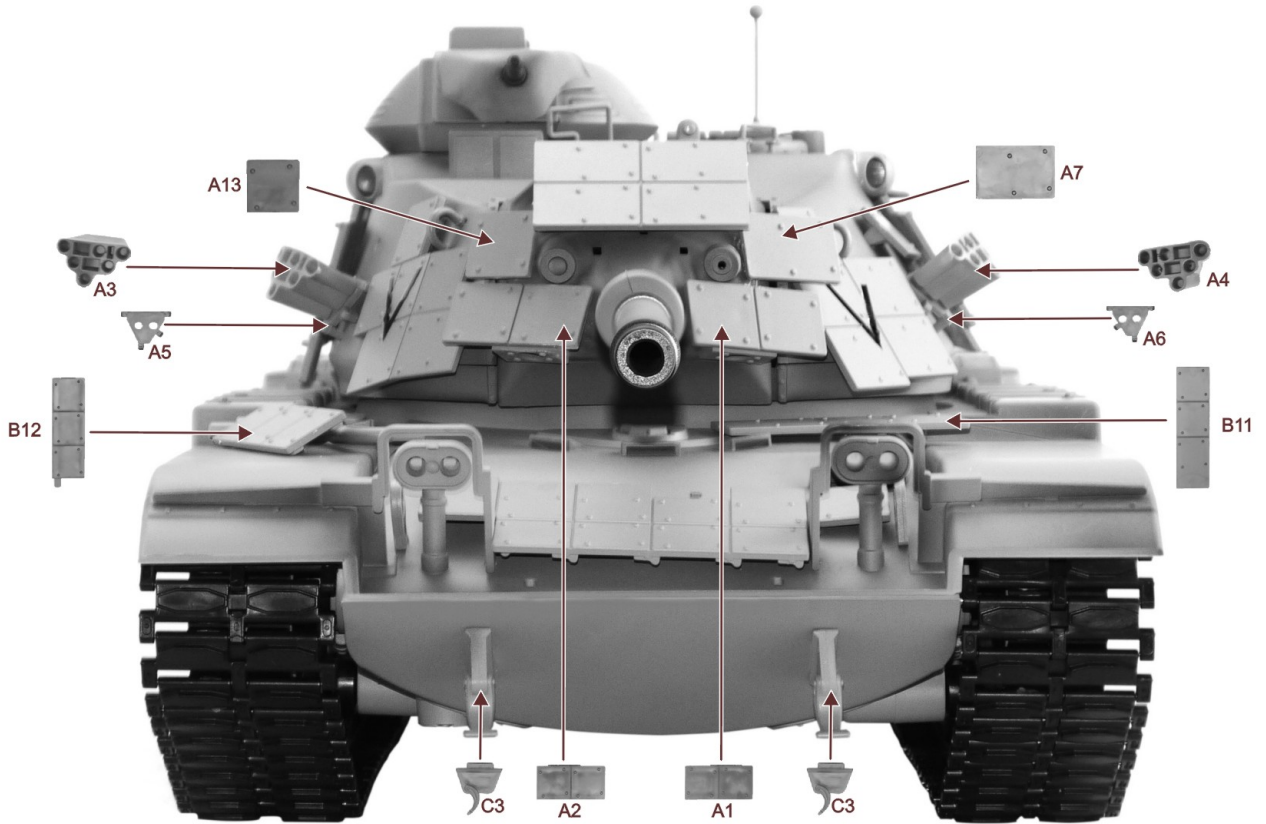
**注意 Caution**

安装自装部件时，若部位孔位太过松动请自行用瞬间粘着剂粘合；若部位孔位狭窄，请自行用工具处理。  
Tools are required for construction, such as cement and Diamond file.



**注意 Caution**

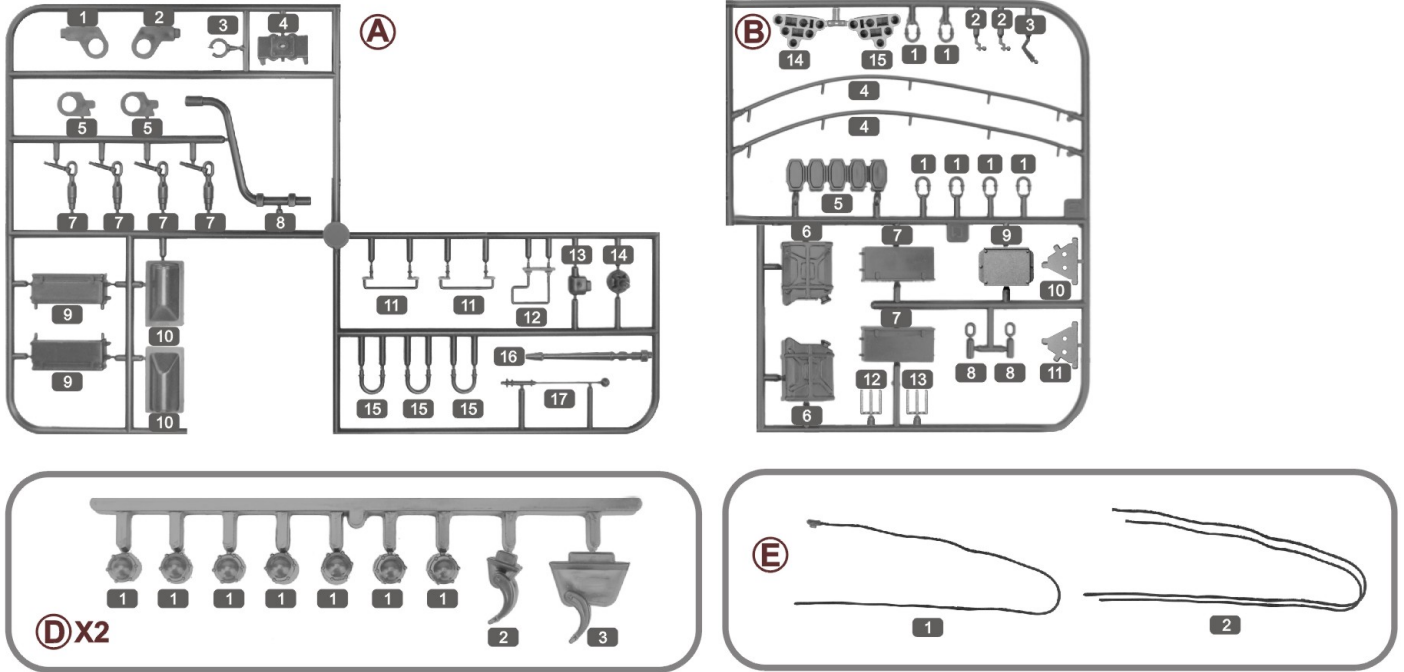
安装自装部件时，若部位孔位太过松动请自行用瞬间粘着剂粘合；若部位孔位狭窄，请自行用工具处理。  
 Tools are required for construction, such as cement and Diamond file.





# 附属零件的安装 M60A3 U.S.A How to install accessories

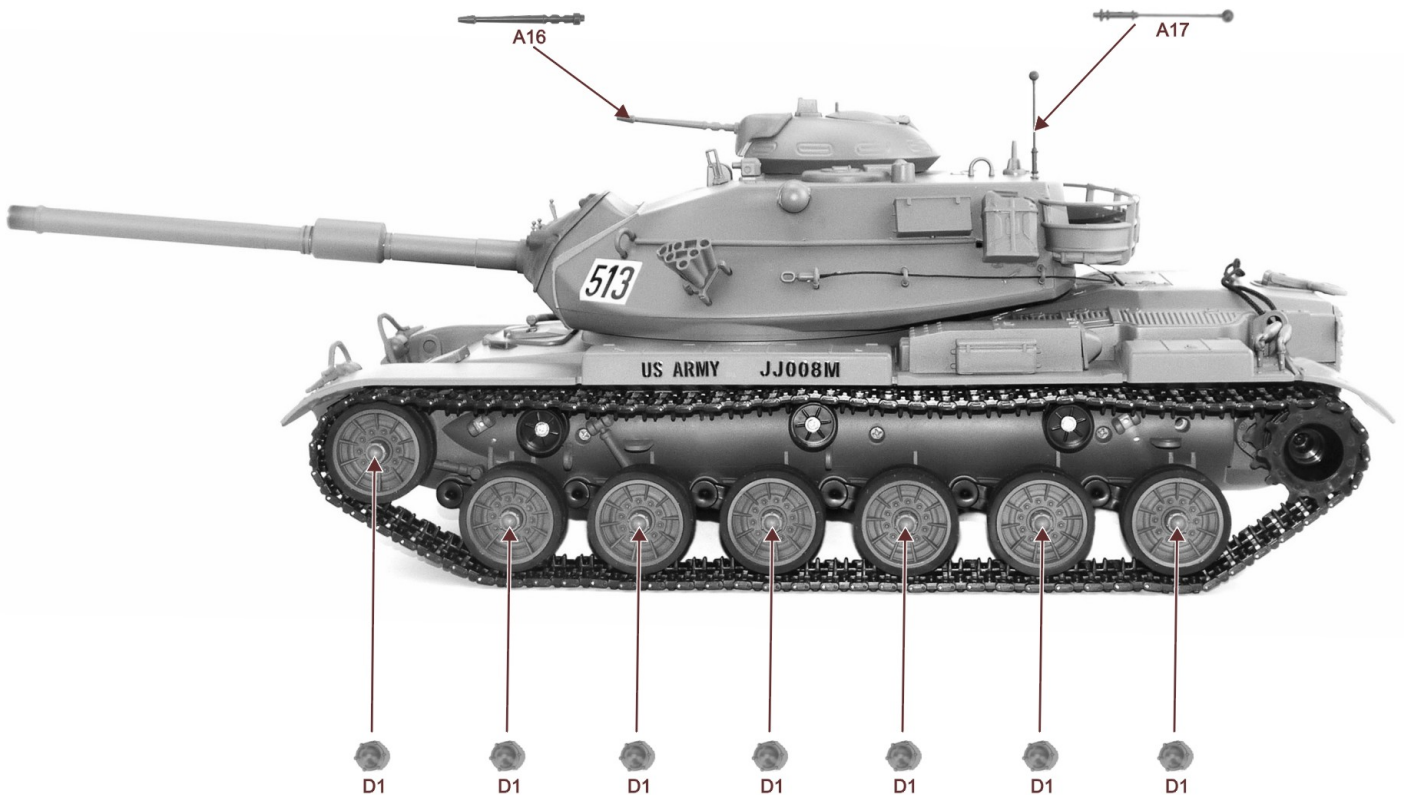
## 附属零件 APPENDANT PARTS



## 附属零件的安装 HOW TO INSTALL APPENDANT PARTS

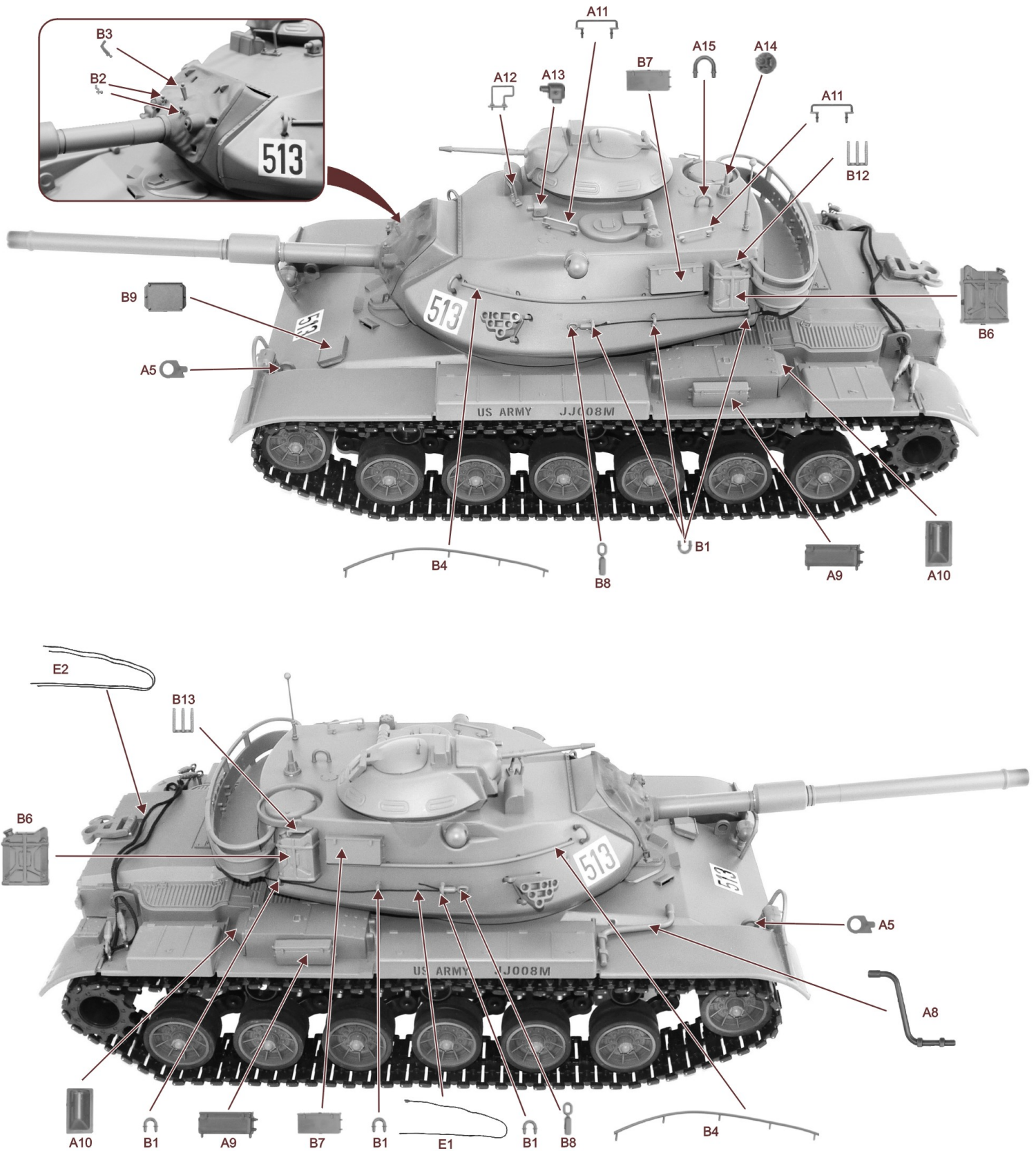
### ⚠ 注意 Caution

安装自装部件时，若部位孔位太过松动请自行用瞬间粘着剂粘合；若部位孔位狭窄，请自行用工具处理。  
Tools are required for construction, such as cement and Diamond file.



**注意 Caution**

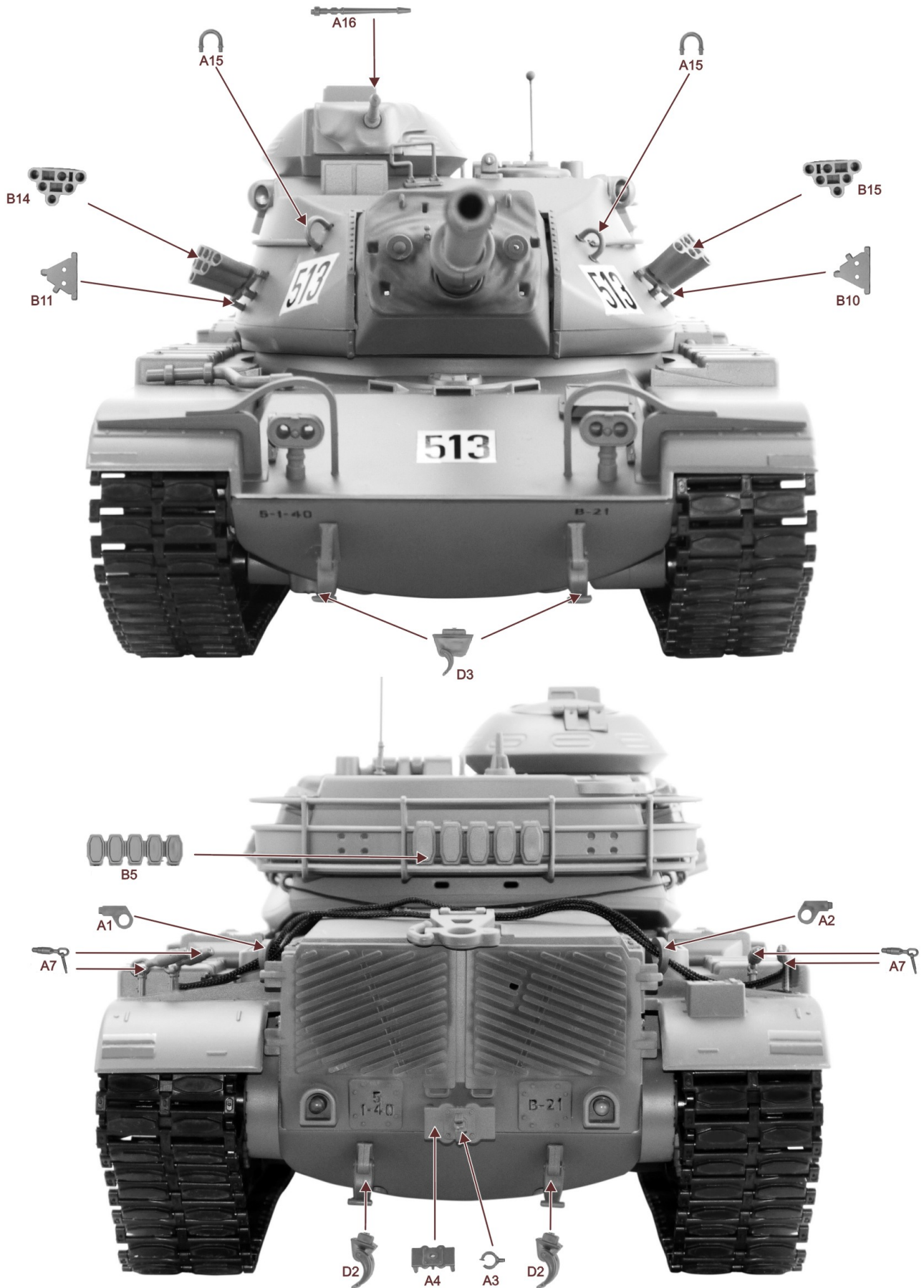
安装自装部件时，若部位孔位太过松动请自行用瞬间粘着剂粘合；若部位孔位狭窄，请自行用工具处理。  
 Tools are required for construction, such as cement and Diamond file.





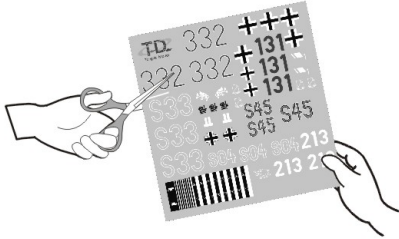
**注意 Caution**

安装自装部件时，若部位孔位太过松动请自行用瞬间粘着剂粘合；若部位孔位狭窄，请自行用工具处理。  
Tools are required for construction, such as cement and Diamond file.



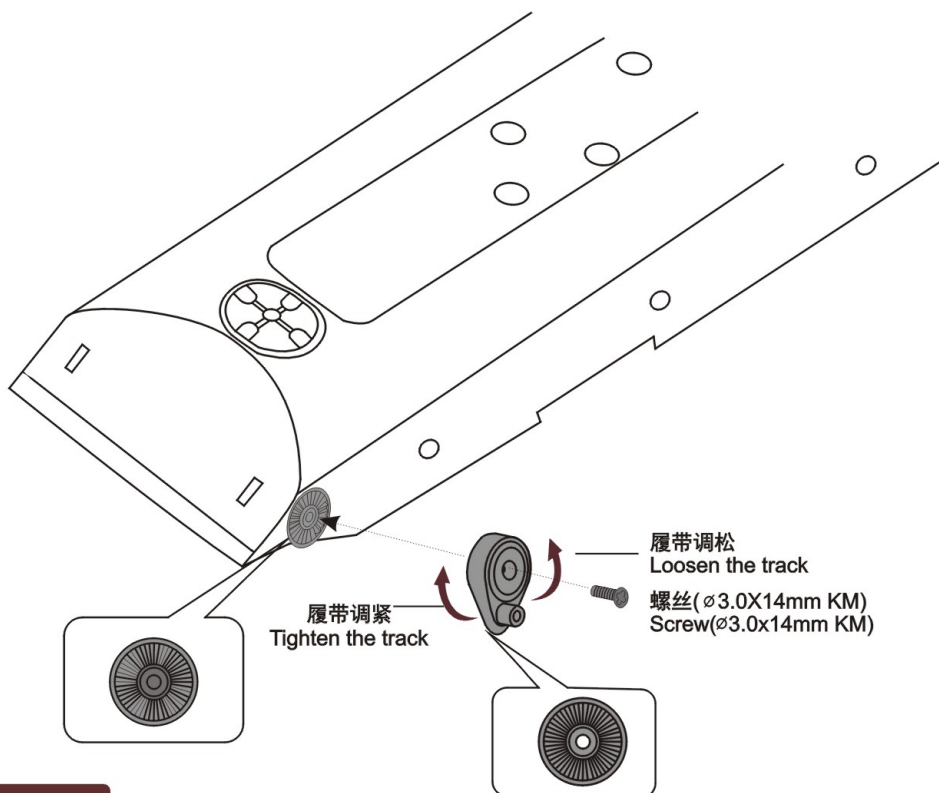
## 部队番号贴纸的贴法 How apply the Decals on your Tank

- 1、先将要贴的标志用剪刀从贴纸剪出来，然后撕掉底纸。  
Please cut the logo that required pasting from the sticker by using the scissor and then tear off the backing paper.
- 2、把标志贴到所需的位置，然后再从贴纸的一边到另一边用手的拇指均匀地紧压，让标志充分紧贴。  
Move the decal around to get a good placement, and get it exactly where you want to be it.
- 3、待十五分钟后，再撕下透明膜。  
After wait for 15 minutes, then tears down the transparent film.



## 履带张紧度调节方法 How to adjust track tension

- 1、用“+”字螺丝刀逆时针方向将诱导轮松脱下来（注意诱导轮与调节器之间有垫片）；
  - 2、再用“+”字螺丝刀逆时针方向将诱导轮调节器松起并进行调节；
  - 3、当履带偏松时，如图示将诱导轮调节器顺时针扭动到履带合适的张紧度位置并将螺丝顺时针拧紧；
  - 4、当履带偏紧时，如图示将诱导轮调节器逆时针扭动到履带合适的张紧度位置并将螺丝顺时针拧紧；
  - 5、将诱导轮和履带按正确方法装上，履带张紧度调节完毕。
1. Use "+" screwdriver to release the idler wheels counterclockwise. (Caution: Shim are installed the gap between idler wheels and the adjuster)
  2. The use "+" screwdriver to loose and adjust the tracks counterclockwise.
  3. If the track are too loose, You can twist the adjuster clockwise to tighten it.
  4. If the tracks are too tightened, You can twist the adjuster counterclockwise to loosen it.
  5. Install the idler wheels and the tracks properly, then you finish the job.



### ⚠ 注意 Caution

当拧紧履带调节器时，如有螺丝打滑，务必将调节器拉起后慢慢地再将螺丝拧紧。  
When you tightening the tracks adjuster, if the screw begin to slips, then pull the adjuster up and tighten the screw slowly.

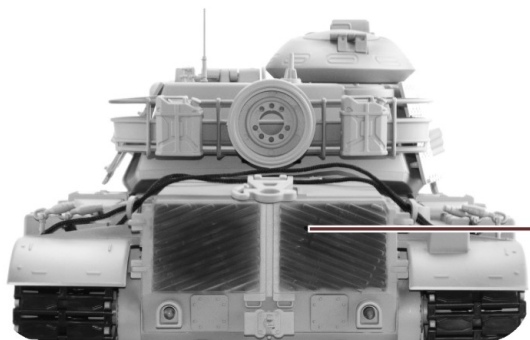


## 特别提示 SPECIAL INSTRUCTION

### 冒烟装置的使用方法 How to use smoke generator

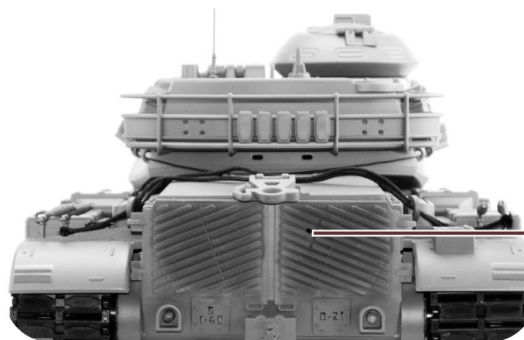
本坦克车出厂时，已添进少许烟雾剂。在第一次使用前，不需添加烟雾剂。可以使用时间约1小时左右。（但有时使用不到1小时，当闻有烧焦味时，这表示烟雾剂快用完，必须马上添加烟雾剂，否则会损坏冒烟装置。）以后每次使用累计超过1小时，都必须再添加2毫升烟雾剂。

A little bit of Smoke Oil have been oiled to smoke generator When Tanks leave the factory. So that you need not oil for the first operation. The original amount of smoke oil can be used about 1 hour (but sometimes perhaps It run less than 1 hour . When the oil is going to run out, You will smell someting burning. It means that You need oil the smoke generator immdiately. You just need only 1 drop, Over filling will not allow the smoke generator to heat coil generate smoke.)



冒烟口 / exhaust /  
加油烟口 / Adding oil inlet

M60A1



冒烟口 / exhaust /  
加油烟口 / Adding oil inlet

M60A3



### 注意事项 Cautions

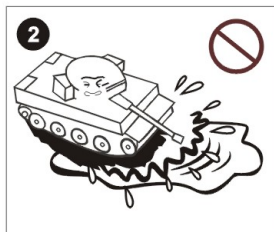
- 1、当电池低电时，冒烟效果将不明显或失效，应及时为电池组充电；
  - 2、当电池足电时，发现烟量减少应及时添加烟雾剂，以防损坏冒烟装置。
- 1.The smoke generator will stop running When the charge drop too low, Please recharge batteries immediately.
- 2.If very little smoke be produced, It means that you need oil the smoke generator immediately, Otherwise the smoke generator will be damaged.

### 修理须知：下列不当使用，本公司不负保修责任。

Warning: The following behaviours will make the warranty void.



1 掉落、强烈撞击造成的故障。  
Accidental falling or violent bumping, Which cause the tank or transmitter damage.



2 在积水和潮湿处行走，被水弄湿（包括遥控器）造成的故障。  
The damages were caused by getting wet.



3 在户外泥地沙地、凹凸不平处、灰尘多之处行走造成的故障。  
The damages were caused by running on terrible road conditions.



4 在地毯、草地等阻力大的地方行走而造成的故障。  
The damages were caused by overloading the drive GearBox. (Such as runs through lawn or carpet or other places with excessive resistance.)



5 在BB弹投入口放入指定BB弹以外物品而堵塞造成的故障。  
Load poor quality BBs or foreign matter into magazine.

6 使用过的BB弹因为附上灰尘，绝对不可再使用以免造成故障。  
Dirty or used BB bullets or other bullets are used in the tank, which leads to malfunction or breaks.  
使用污染的BB弹，用过的BB弹和指定以外的BB弹而造成的故障。  
BB bullets that have been used may get dirt on them and cannot be reused to avoid damages to the tank.



7 没有遵守说明书上的警告和注意事项而造成的故障。  
Other malfunctions due to violation of warnings or cautions described in this manual.

8 错误使用而造成的故障。（电池接反，弄湿，碰撞等）  
Malfunctions due to misuses (reverse battery connection, wetted parts, or bumps).

9 不当的分解和改造而造成的故障，或使用本公司以外的零件。  
Malfunctions due to improper assembly or restructuring or use of unspecified parts.

10 购买后由于输送，掉落造成的故障，或保管不周。  
Malfunctions caused during moving or by falls or by poor storage condition.

11 使用所指定以外的电池造成的故障，强行在阻力大的地方行走而损伤主板和马达。  
Malfunctions caused by use of unspecified batteries. Chassis or motor damages caused by running over places with excessive resistance.

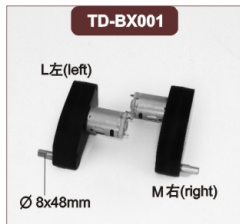
12 其它保证规定之外的故障和损伤。  
Other malfunctions or breaks not within the range of our quality guarantee.



### 改造或分解的商品不受理维修

The manufacturer does not offer repair services for commodities restrctured or disassembled by the user.

## 电气零件表 ELECTRONIC PARTS



TD-BX001

L左(left)  
M右(right)  
∅8x48mm

驱动波箱

Drive gearbox



TD-BX002

打弹波箱

(Airsoft)Shooting unit #1



TD-BX003

升降波箱

Gun barrel elevation unit



TD-BX004

转向波箱

Steering gearbox



TD-SM001B

出烟口(Outlet flue)  
加油口(oil filler)

冒烟波箱

Smoke generator



TD-SP001

圆形音响

Round sound



TD-EP001

TDC-X功能主板(2.4GHz)

TDC-X Multi-function circuit unit(2.4GHz)



TD-EP002

发射板(2.4GHz)

Transmitting board(2.4GHz)



TD-EP003

大六脚开关(SS-22H03 G7)

Main power ON/OFF switch(SS-22H03 G7)



TD-EP004

触发开关

(Airsoft)Shooting unit (Recoil switch)



TD-EP005

PH-3P插座

PH-3P socket



TD-EP006

红外线接收器

Infrared receiver



TD-EP007A

∅5mm红外线发射管

∅5mm Infrared transmitting tube



TD-EP007B

∅5mm红外线接收管

∅5mm Infrared receiving tube



TD-EP008

∅3mm LED (白灯发红光)

∅3mm LED (white LED shine red light)



TD-EP009

∅5mm LED (白灯发白光)

∅5mm LED (white LED shine white light)



TD-EP010

∅5mm LED (白灯发红光)

∅5mm LED (white LED shine red light)



TD-EP011

KET 电源线(120mm)

2 ports single head cable(120mm)



TK-EP012

单向2P插头线(∅2.1 180/270mm)

2 ports single head cable (∅2.1 180/270 mm)



TD-EP014

单向2P插头线(∅1.0 320/430mm)

2 ports single head cable (∅1.0 320/430 mm)



TD-EP014

单向2P插头线(∅1.0 320/430mm)

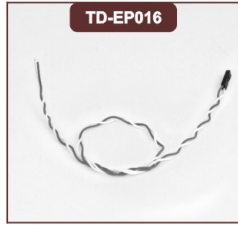
2 ports single head cable (∅1.0 320/430 mm)



TD-EP015

单向3P插头线(∅1.0 220/420mm)

3 ports single head cable (∅1.0 220/420 mm)



TD-EP016

杜邦2P插头线(∅1.0 150/350/420mm)

Dupont 2 ports single head cable (∅1.0 150/350/420 mm)



TD-EP017

7.4V锂电池(带智能保护板)

7.4V Li-ion battery(Built-in battery intelligent protective board)



TD-EP018

USB 充电线(专用)

USB Charge line (Special)



TD-EP019

遥控器(2.4GHz)

Remote controller(2.4GHz)

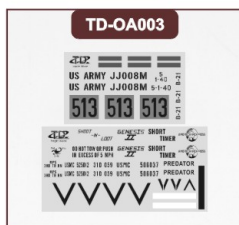
## 其他配件表 OTHER PARTS



TD-OA001

BB 弹

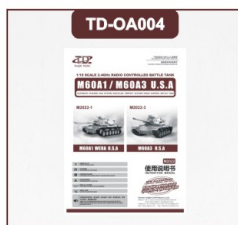
6mm BB Ball bullet



TD-OA003

贴纸

Paste



TD-OA004

说明书

Instruction manual

## 选配零件 OPTIONAL PARTS



TD-SS020

炮管伸缩

Gun stretching and retracting



TD-SM001A

冒烟波箱

Smoke generator



# M60A1 WERA U.S.A 美国M60A1简介



1962年到1980年，M-60A1巴顿坦克从M48发展到M60。这种较新的改型采用了重新设计的楔形炮塔和改进的弹道。105毫米M68主炮的保护和新的安装装置（从优秀的英国L7改进，具有垂直滑动后膛块），可以发射HE、Frag、AP和HEAT弹。另外还有一挺同轴式7.62毫米M73机枪和一挺12.7毫米M85机枪安装在指挥官的炮塔里。进一步的改进包括增加顶部和车体侧面的装甲厚度，以及在前两个和最后两个负重轮站安装减震器。由改进的643马力的大陆AVDS-1790-2A V-12双涡轮增压柴油发动机和艾利森CD-850-6A交叉传动装置提供动力，坦克重58吨，由四名乘员（指挥官、炮手、装填手和驾驶员）提供服务。这种坦克在1960年代到1970年代早期成为美国武装部队的主战坦克。

1990年，美国海军陆战队的主战坦克被部署到沙漠盾牌行动中，在主战坦克上安装了爆炸反应装甲（ERA）瓦片，以进一步加强对乘员的保护。在沙漠风暴行动中，第一海军陆战队远征军部署了210辆M60A1坦克支持科威特的解放，摧毁了100多辆伊拉克T-55/62/72和69-11型坦克（只有一辆因反坦克地雷而损失）。

## Introduction to the M60A1 WERA U.S.A

Evolving from the M48 through the M60, the M-60A1 Patton tank was produced from 1962 through 1980. This newer variant featured a redesigned wedge-shaped turret with improved ballistic protection and a new mounting for the 105mm M68 main gun (modified from the excellent British L7 with a vertical sliding breech block), which could fire HE, Frag, AP, and HEAT rounds. Additional armament consisted of a coaxially mounted 7.62 mm M73 machine gun and a 12.7 mm M85 machine gun mounted in the commander's cupola. Further improvements consisted of increased armor thickness on the glacis and hull sides, as well as the installation of shock absorbers at the first two and last roadwheel stations. Powered by the improved 643 hp Continental AVDS-1790-2A V-12 twin turbo diesel engine coupled to the Allison CD-850-6A powershift cross-drive transmission, the tank weighed 58 tons and was served by a crew of four - commander, gunner, loader, and driver. This vehicle became the main battle tank fielded by the US Armed forces through the 1960's into the early 1970's.

Deployed to Operation Desert Shield in 1990, the United States Marines Corps' main battle tank was retrofitted with explosive reactive armor (ERA) tiles to further increase crew protection. During Operation Desert Storm, the 1st Marine Expeditionary Force fielded 210 M60A1's to support the liberation of Kuwait, destroying over 100 Iraqi T-55/62/72 & Type 69-11 tanks (and losing only one to anti-tank mines).

# M60A3 U.S.A 美国M60A3简介



M-60A3是美军M60系列中发展较晚的一种主战坦克，是美军目前装备的主战坦克之一，属第二代坦克。该型坦克主要用于在部队进入敌纵深后与敌方坦克进行交战，或执行前沿火力支援任务，摧毁敌方工事、兵器、歼灭有生力量。它安装了可靠性得到提高的发动机和被动观瞄仪，1978年又做了安装新的测距仪、弹道计算机、M240高射机枪和M239烟雾弹发射器等4项改进。

自1980年开始，部分M60A3坦克安装了热成像瞄准镜，安装了热成像瞄准镜的M60A3被重新命名为M60A3TTS。1985财政年度美国陆军拨款2.151亿美元用于把现役装备的所有M60A1坦克升级改造成M60A3。美国陆军共装备5400辆，其中1686辆是新生产的M60A3，114辆是在美国陆军各部队中修时由M60A1坦克改装成M60A3的，3600辆是由M60A1在联邦德国美国因茨陆军基地和阿拉巴马州安尼斯顿陆军基地大修时改装成M60A3的。

1985年7月美国陆军实弹试验了由3辆M60A1改装的装有反应式装甲的M60A3坦克。虽试验成功，但由于经费拮据，1988年决定放弃在该坦克上加装反应式装甲的计划。

## Introduction to the M60A3 U.S.A

M-60A3 is a kind of main battle tank developed later in the M60 series of the US Army. It is one of the main battle tanks currently equipped by the US Army and belongs to the second generation tank. This type of tank is mainly used to engage enemy tanks after troops enter the depth of the enemy, or carry out forward fire support missions, destroy enemy fortifications, weapons, and annihilate effective forces. It was fitted with an engine with improved reliability and a passive viewer. In 1978, four more improvements were made, including the installation of a new rangefinder, a ballistic computer, an M240 anti-aircraft machine gun, and an M239 smoke bomb launcher.

Starting in 1980, some M60A3 tanks were fitted with thermal imaging scopes, and M60A3 tanks fitted with thermal imaging scopes were renamed M60A3TTS. In fiscal year 1985, the U.S. Army allocated \$215.1 million to upgrade all currently equipped M60A1 tanks to the M60A3. The U.S. Army is equipped with 5,400 vehicles, of which 1,686 were newly produced M60A3s, 114 were converted from M60A1 tanks during repairs in various U.S. Army units, and 3,600 were converted from M60A1s during overhauls at Army Base Mainz, Federal Germany, and Anniston, Alabama.

In July 1985 the US Army live-fired three M60A1 modified M60A3 tanks fitted with reactive armour. Despite successful trials, it was decided in 1988 to abandon plans to equip the tank with reactive armour due to financial constraints.