

M7A3

BFIST BRADLEY
Fire Support Team Vehicle
M7A3 BFIST 火力支援车

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2023年9月，东乌平原某地，在阴滞乌军反攻的阵地前沿20公里处，俄军士兵发现乌方进攻阵地的主力装备并不是他们手中引以为傲的豹2，M1。而是1辆俄制坦克带着5到6辆M2布雷德利步兵战车靠前展开战斗队形。俄军士兵为错过百万卢布的奖金而遗憾的同时，从容的转起了手里的短号操作手轮，观瞄镜头牢牢的将目标锁定在一辆M2步兵战车上时。“不对，这不是M2。”俄军士兵发现这辆行进中的步兵战车和平时见到的布雷德利不太一样，对方高耸的天线下，硕大的主观瞄犹如鹰眼般凝视着己方阵地方向纹丝不动，随即而来的是一阵尖啸的钢铁弹雨覆盖了俄军的前沿阵地。

M7是在M2A2“布莱德利”ODS步兵战车基础上研制的前沿观察车，用于取代M113装甲运兵车底盘基础发展的老式M981 FITV前沿观察车。研制计划始于20世纪90年代中期，1997年开始测试预生产车辆，1998年签订了低速初始生产合同。M7A3 BFIST火力支援车的观瞄模块常见的载体为M3A3骑兵战车，该型号多装备于炮兵部队。也有部分采用M2A3步兵战车作为搭载平台，其外观和M7 BFIST相似，该型号多装备于装甲部队。该系列战车的最新型号为M7A4火力支援车，搭载平台为最新型的M2A4步兵战车。

M7A3火力支援车与常见的M2A3布雷德利步兵战车外观最大的不同是将M2A3的两联装陶氏反坦克导弹发射架换成了硕大的目标观测定位的观瞄传感器。车顶和车尾的无线电通讯天线也换成了炮兵部队采用的宽频段天线。炮塔加装了MAPS定位导航装置。M7A3火力支援车遂行的前沿侦察和目标定位的任务，不需要其搭载更多的步兵载员去战斗，车体采用M3骑兵战车作为载体，车内更宽敞的空间是可用于放置观瞄和数据交换用的各型电子设备，故M3骑兵战车车体将M2A3的车体两侧和尾部载员潜望镜取消，车尾的载员射击孔取消。车尾顶部的乘员舱盖换成M3骑兵战车专用舱盖。

M7A3之所以被称为火力支援车，而非装甲侦察车，是因其具备强大的战场侦察标定能力，凭借其先进的观瞄设备和数据交换能力可以将20公里范围内的敌方目标位置，准确报告给后方伺机发射的火炮，火箭炮阵地。所截获目标信息都是不暴露在敌方火力下的装甲车内执行完成的，车辆内部充足的空间允许便携式目标指示设备供下车的侦察人员使用。激光瞄准系统照射目标后，车内计算机通过车辆内置的战斗管理系统与GPS惯性导航系统，能够很快速地将目标坐标标定在地图位置上，通过数字战斗管理系统呼叫附近的炮兵部队开火，能够引导155毫米炮弹落在距离指定目标50米的范围内，如采用M982神剑炮弹的话可实现对目标的精确狙杀。

根据最新披露出来的图片显示，乌克兰军队已于近期获得并装备了M7系列的火力支援车，M7A3在伴随己方装甲部队前出战斗或侦察的过程中，可实时将发现捕获目标的数据信息传输给后方的M777牵引式榴弹炮，M142海马斯火箭炮，M109自行榴弹炮等一系列美制前沿支援火力，进行快速打击俄军靠前部署的高价值目标，装甲集群，步兵火力点。俄乌冲突中关键要点的夺控已经演化成双方炮兵火力有效投送的较量，乌军在炮兵火力数量，质量不占优势的情况下，依然能用有限的炮兵火力频频取得战果，M7A3功不可没。

On September, 2023, Army Recognition reported that Ukrainian Forces had deployed the Bradley M7 BFIST, designed for target identification and coordination of indirect artillery fire, for the first time on the Zaporizhzhia front.

The M7 BFIST replaces the aging M981 "hammerhead" fire support team vehicle (FIST-V) in selected mechanized units. The M7 BFIST is a modified M2A2 ODS (Operation Desert Storm) Bradley fighting vehicle that has been equipped with a specialized fire support mission equipment package (MEP). The BFIST program dates back to the mid-1990s with the initial vehicle designs completing preproduction qualification testing and limited user testing during the second and third quarters of fiscal year (FY) 1997, and the M7 BFIST vehicles began entering Army inventories in 2000. The A3 BFIST incorporates the FIST MEP with a digitized M3A3 chassis and the new M7A4 BFIST is based on the latest generation of Bradley Fighting Vehicle (BFV) in service with the U.S. Army which is the Bradley A4.

The BFIST has been modified to replace the traditional launcher unit for TOW anti-tank missiles with advanced target location equipment and sensors, enhancing its target spotting and artillery coordination capabilities. The layout of the vehicle is similar to standard Bradley M2/M3 IFV, but there is one antenna on each side at the rear on the top hull. Using state-of-the-art long-range sensors, BFIST can acquire, identify, track and designate targets while mounted and under armor, enhancing crew survivability.

BFIST vehicles are required to conduct various mission scenarios including reconnaissance and surveillance, reporting of enemy activity in the area of operations, reporting of hazards and obstacles to movement, and the coordination of indirect fire support. The integrated Fire Support Sensor System provides target location range of up to 20km, is compatible with systems including the M982 Excalibur 155mm precision howitzer rounds.

According to the U.S. State Department's report, 190 units of Bradley IFV were delivered in different batches to Ukraine. Of these batches, 4 units of the M7 BFIST version were transferred. Tactically, the Ukrainian army was still able to frequently achieve victories with limited artillery firepower, even though the quantity or quality of its artillery firepower were not superior which the BFIST played an important role. The BFIST that specifically designed to enable precise coordination of indirect fire at distances of up to 8,000 meters, effectively integrating artillery support with Ukrainian ground forces.

制作前请仔细阅读以下内容 Read carefully before assembly

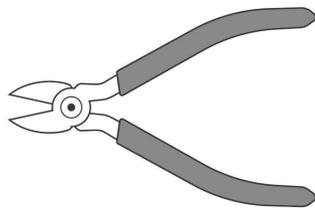
注意

- 本模型适合的最小年龄为14周岁，14周岁以下制作时应当有家长陪同。
- 请勿吞食产品包装中的物品，包括但不限于零件、说明书、包装袋等。
- 将零件取出后应立即丢弃包装袋，请勿将包装袋置于口鼻处或套在头上，以免引起窒息。
- 请勿将本产品置于明火或者高温源附近。

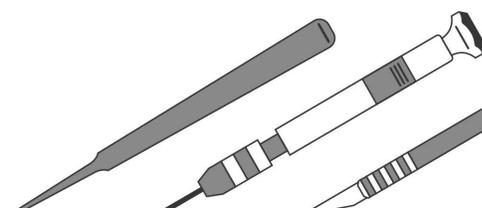
Caution

- This model kit is for user aged 14 or above. User under 14 should be accompanied by parents when building this kit.
- Don't swallow any items in the package, including but not limited to parts, stickers, manual and vinyl bags.
- Please throw the vinyl bags away once you unpacked parts. Don't put the bags onto mouth, nose or over the head to avoid suffocation.
- Keep this product away from fire or high temperature source.

使用工具 Tools recommended



剪钳
Side cutters



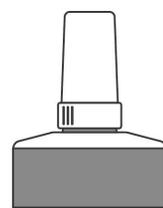
镊子
Tweezers

手钻
Pin vise

笔刀
Hobby knife



瞬干胶
Cyanoacrylate glue



模型胶水
Cement

图标说明 Icon



优先制作
Assemble first



对称制作
Both sides



选择其一
Choose one



使用贴纸
Apply decal



使用瞬干胶
Apply CA cement



钻孔
Drill hole



切除
Cut

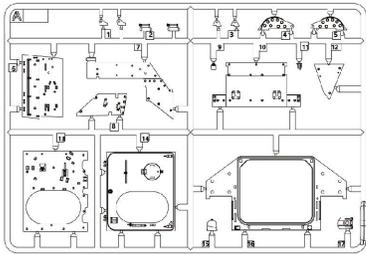


注意
Caution

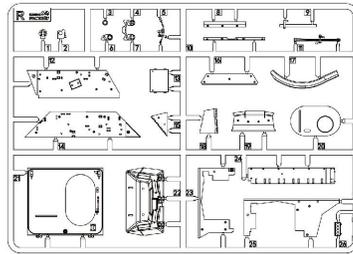


需要上色
Paint

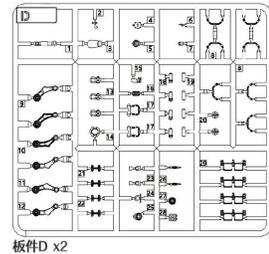
部品图
Parts



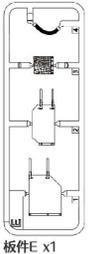
板件A x1
Parts A x1



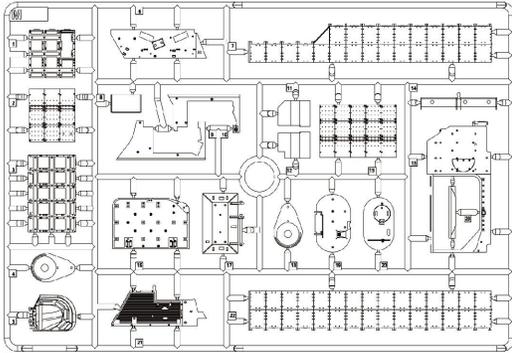
板件R x1
Parts R x1



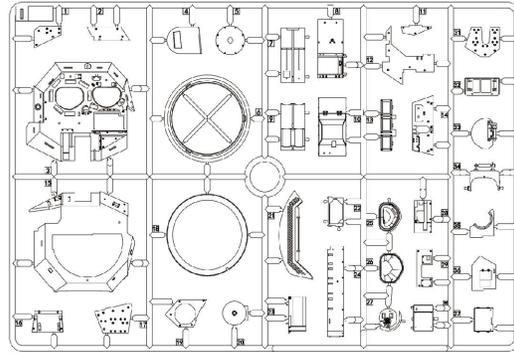
板件D x2
Parts D x2



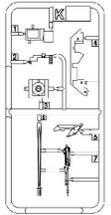
板件E x1
Parts E x1



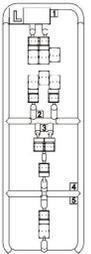
板件M x1
Parts M x1



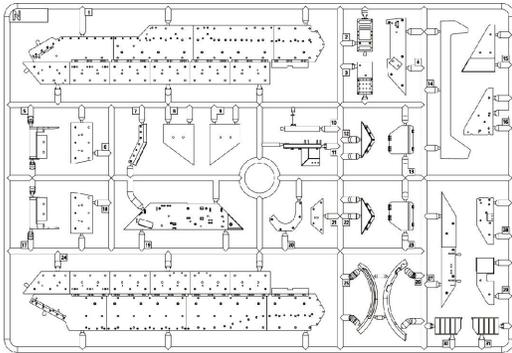
板件I x1
Parts I x1



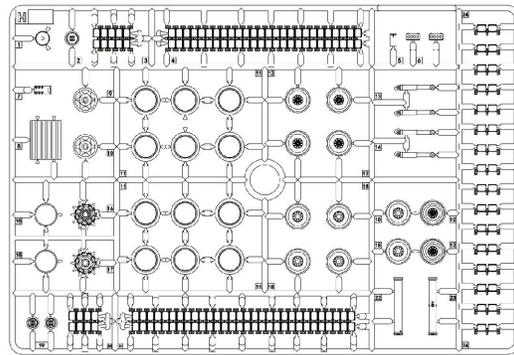
板件K x1
Parts K x1



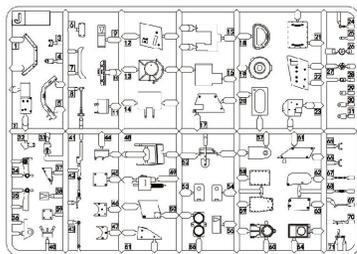
板件L x1
Parts L x1



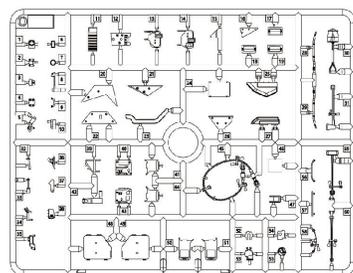
板件N x1
Parts N x1



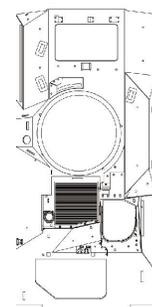
板件H x2
Parts H x2



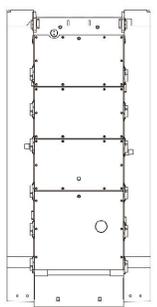
板件J x1
Parts J x1



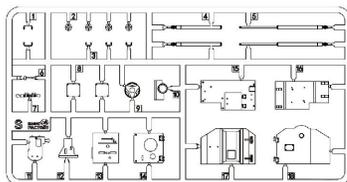
板件O x1
Parts O x1



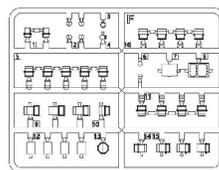
上车体 x1
Lower hull x1



下车体 x1
Upper hull x1



板件S x1
Parts S x1



板件F x1
Parts F x1



水贴 x1
Decal x1



PE(大) x1
PE(Big) x1



金属炮管 x1
Metal Barrel x1



遮盖贴纸 x1
Masking sticker x1

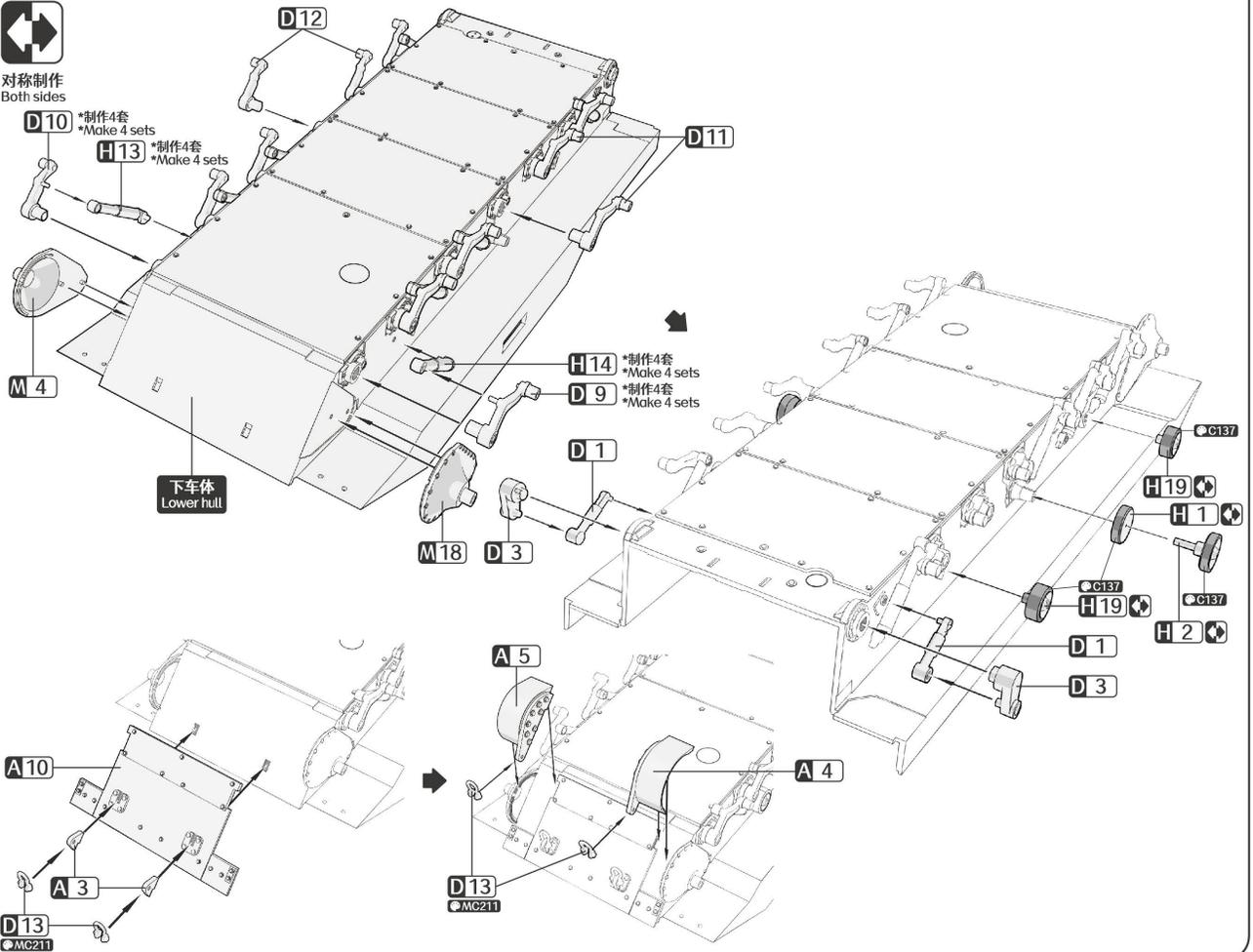
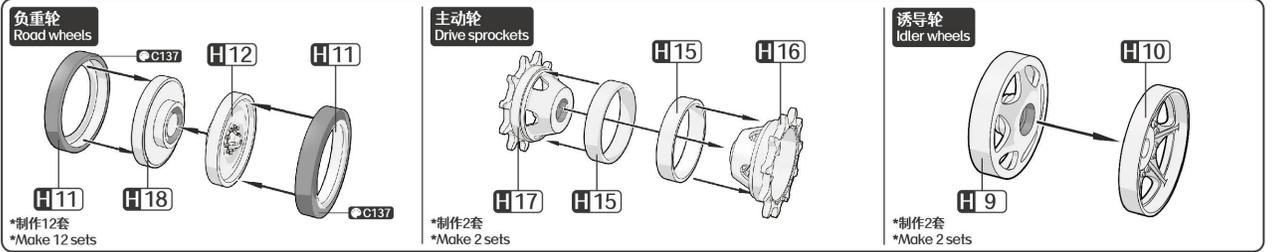


虹膜贴纸 x1
Cooled Lens Stricker x1

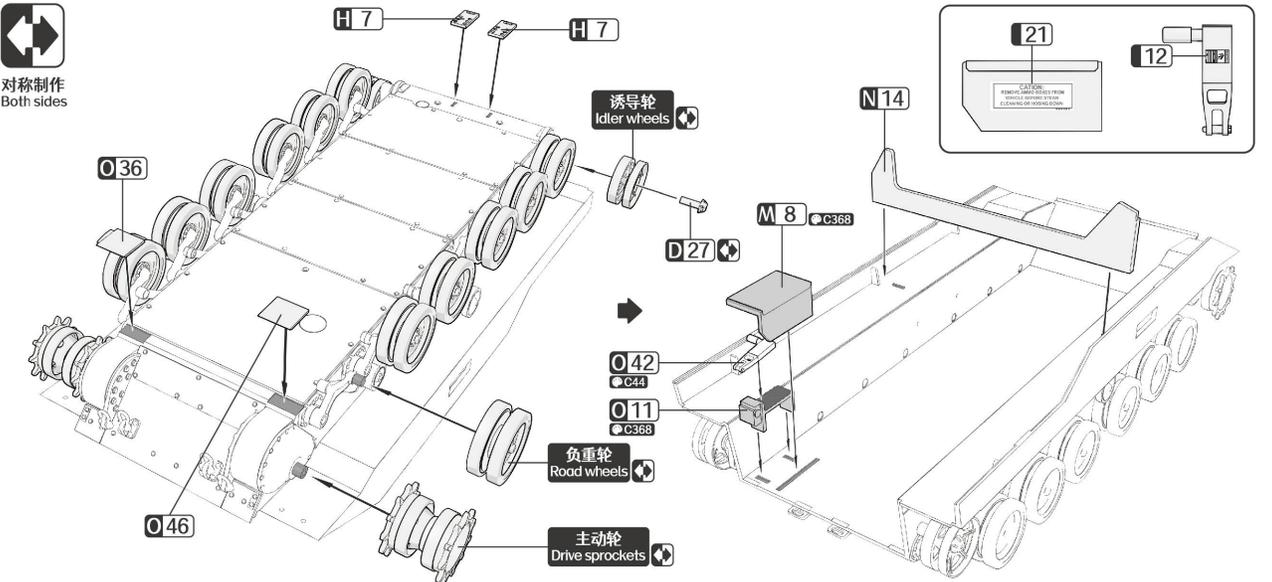


PE(小) x1
PE(Small) x1

1. 轮组和行走机构安装 Wheels and running gear assembly



2. 轮组和尾舱门动作机构安装 Wheels and rear ramp hinge assembly

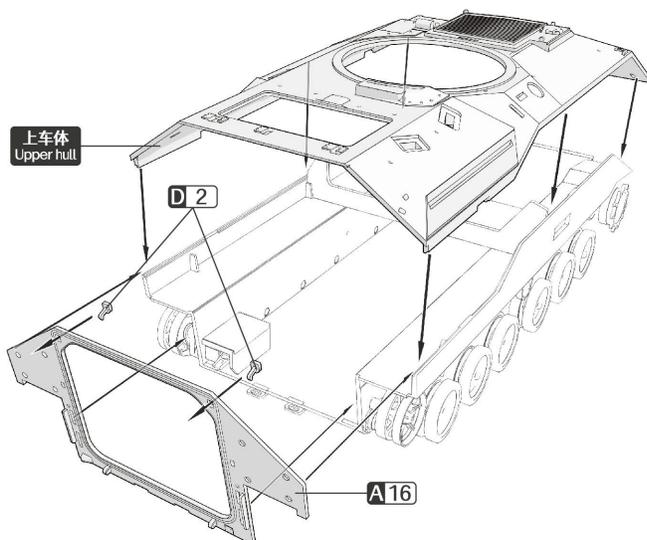
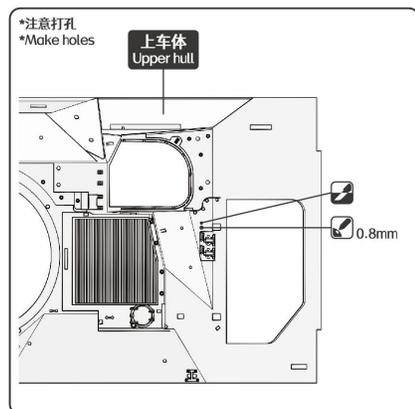


3. 车体和尾门组合 Hull and Ramp assembly

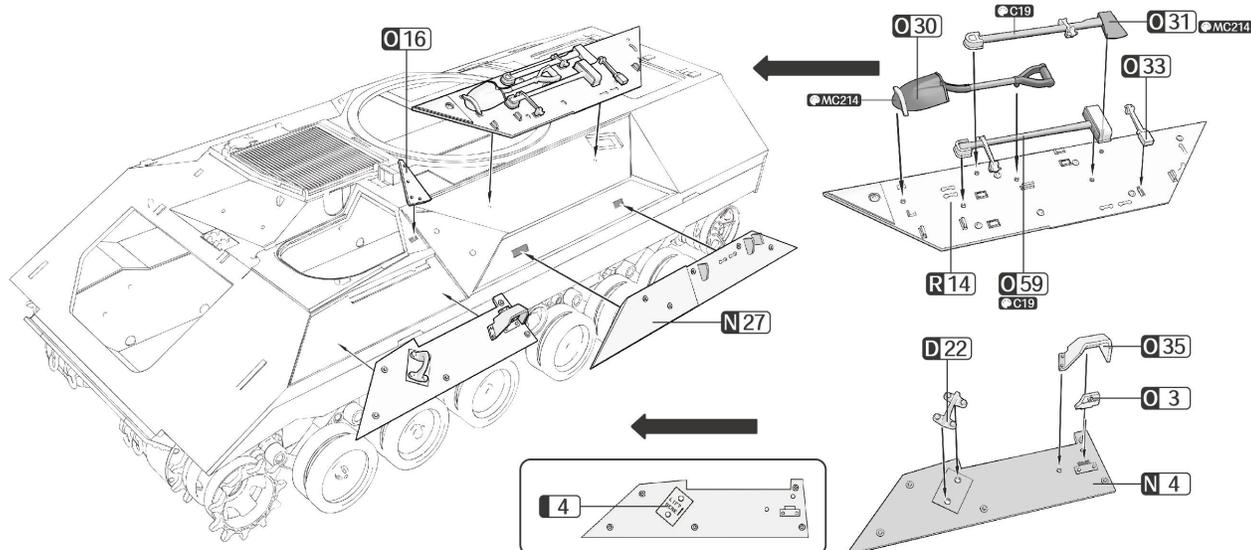


钻孔
Drill hole

切除
Cut



4. 车体左侧装甲板安装 Left armor assembly

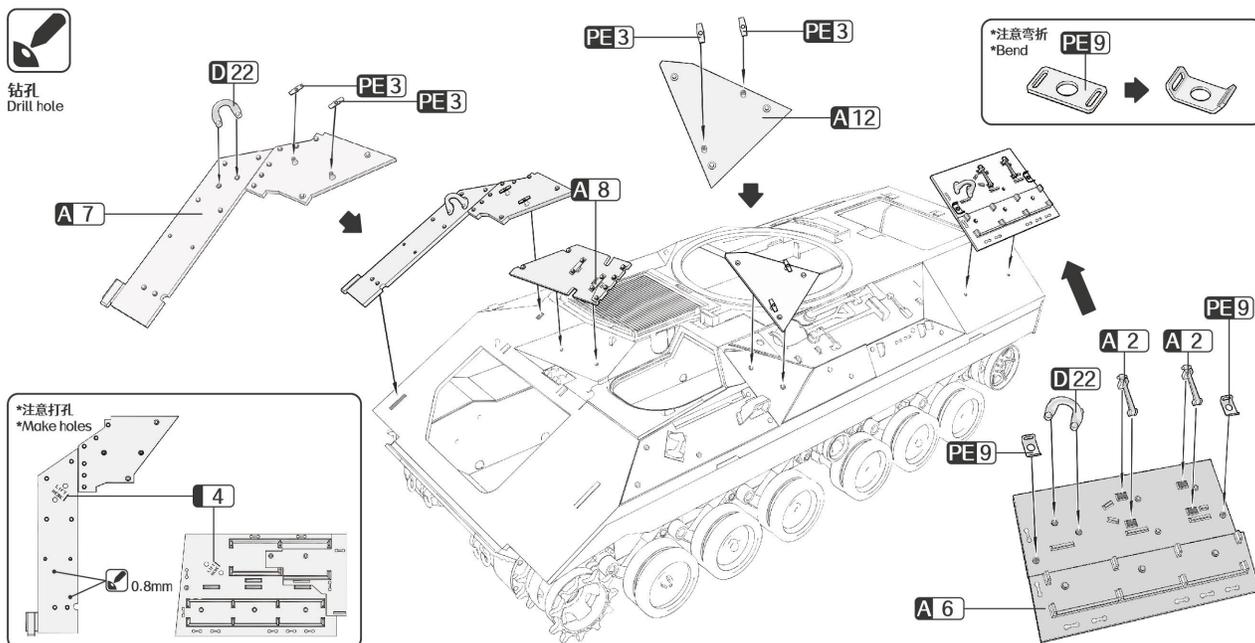


5. 车首装甲板安装 Front armor assembly



钻孔
Drill hole

*注意弯折
*Bend



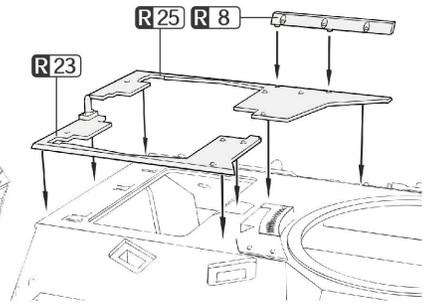
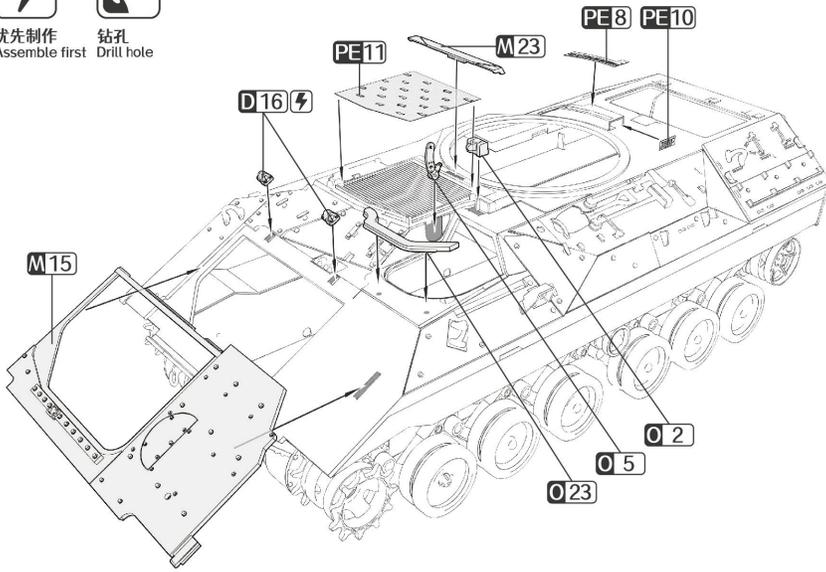
6. 发动机舱装甲板和载员舱装甲板安装 Engine & passenger compartment armor assembly



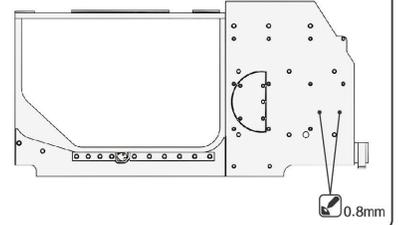
优先制作
Assemble first



钻孔
Drill hole

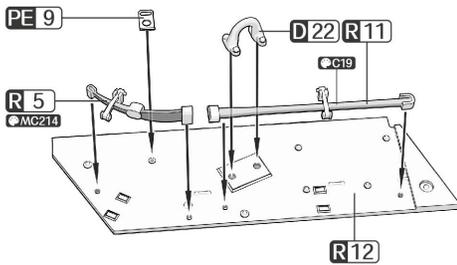


*注意打孔
*Make holes

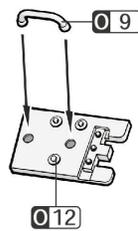


7. 车体右侧装甲板安装 Right armor assembly

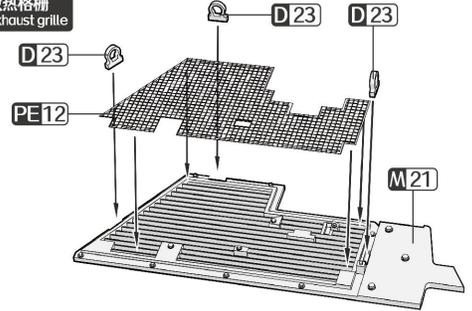
载员舱装甲板
Passenger compartment armor



油箱装甲板
Fuel tank armor



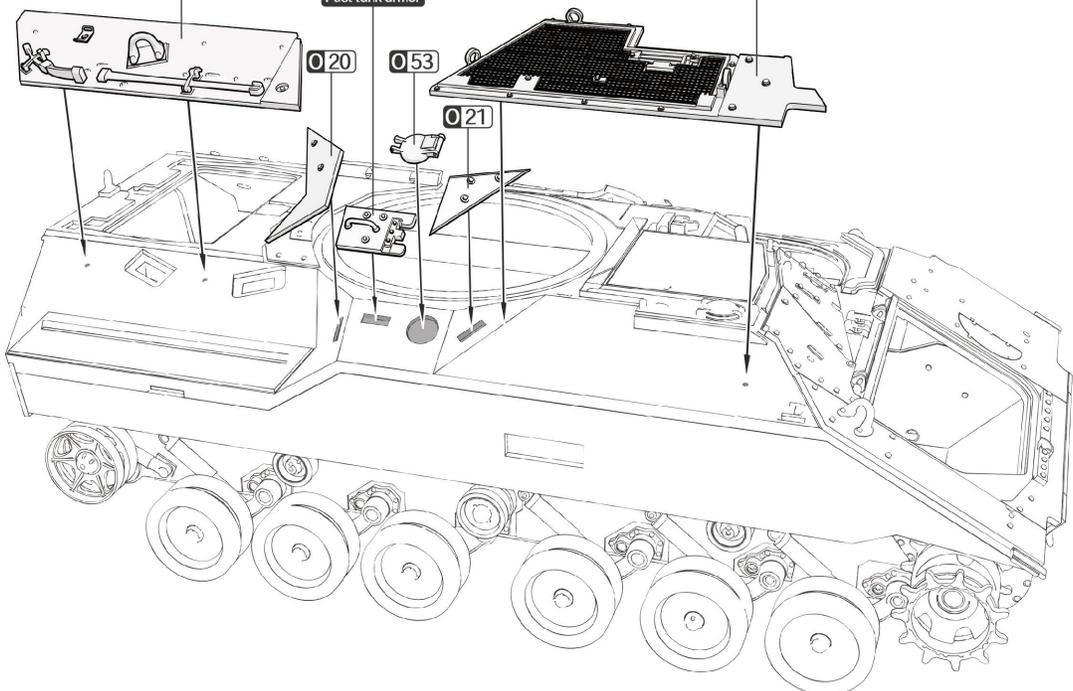
散热格栅
Exhaust grille



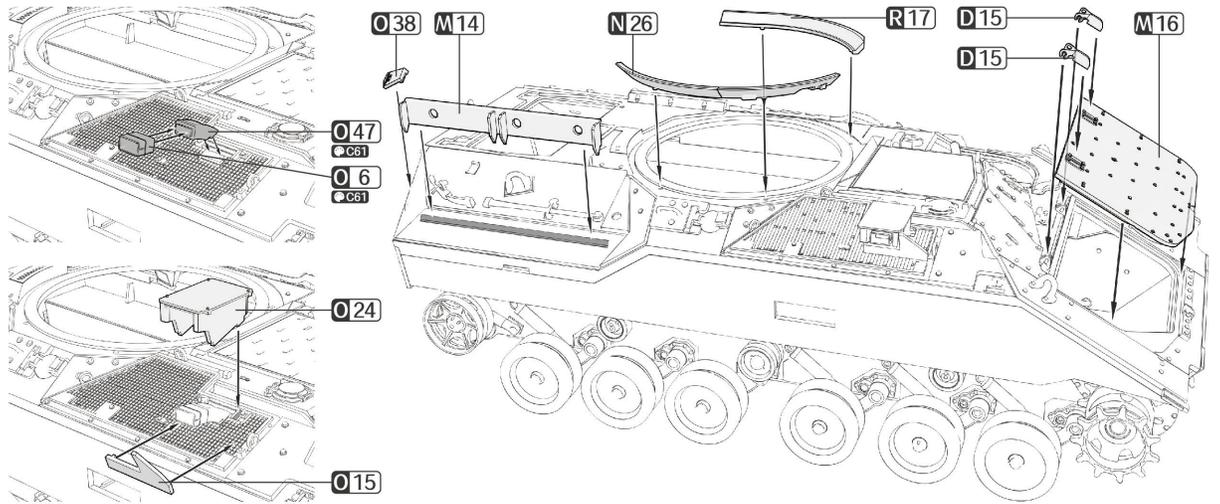
载员舱装甲板
Passenger compartment armor

油箱装甲板
Fuel tank armor

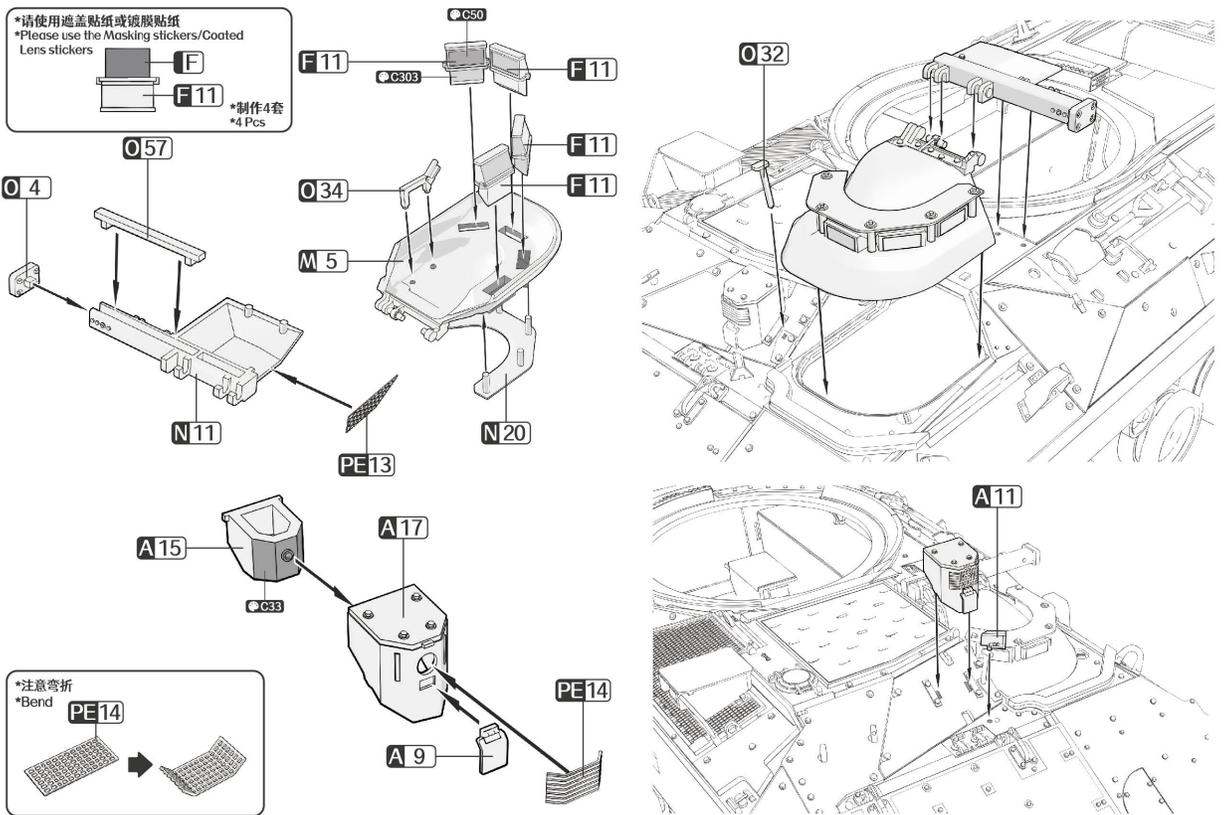
散热格栅
Exhaust grille



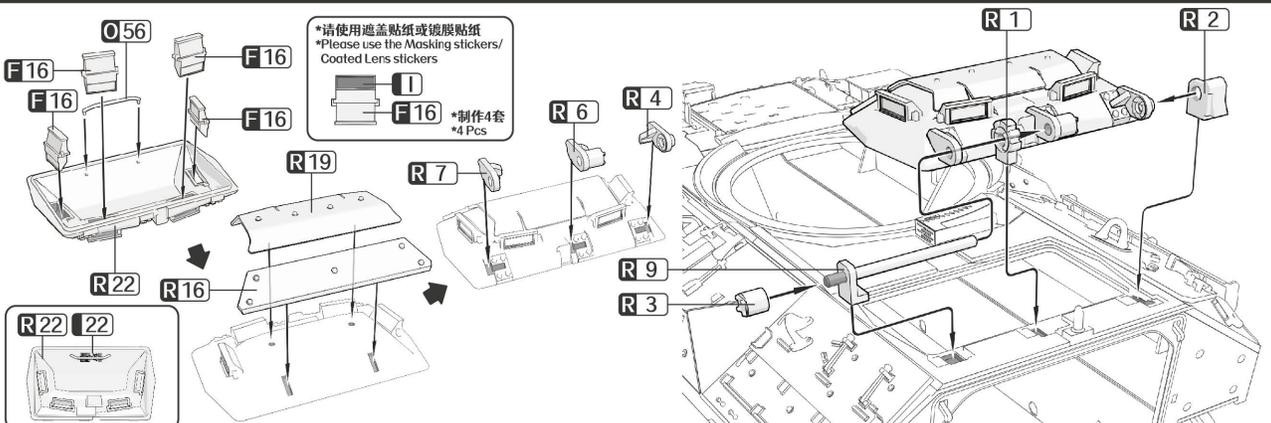
8. 排烟口,炮塔护圈,发动机检修盖板安装 Exhaust deflector, turret retainer & engine maintenance hatch assembly



9. 驾驶员舱盖,及视觉增强系统安装 Driver's hatch & Driver's Vision Enhancer (DVE) assembly

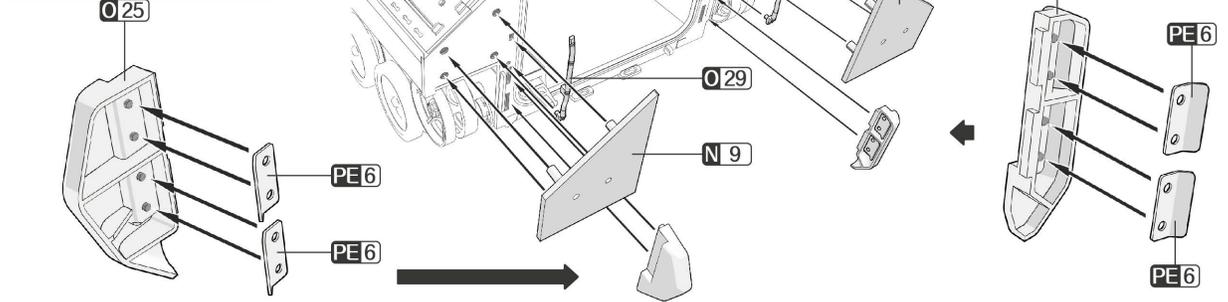


10. 载员舱盖安装 Passenger compartment hatch assembly

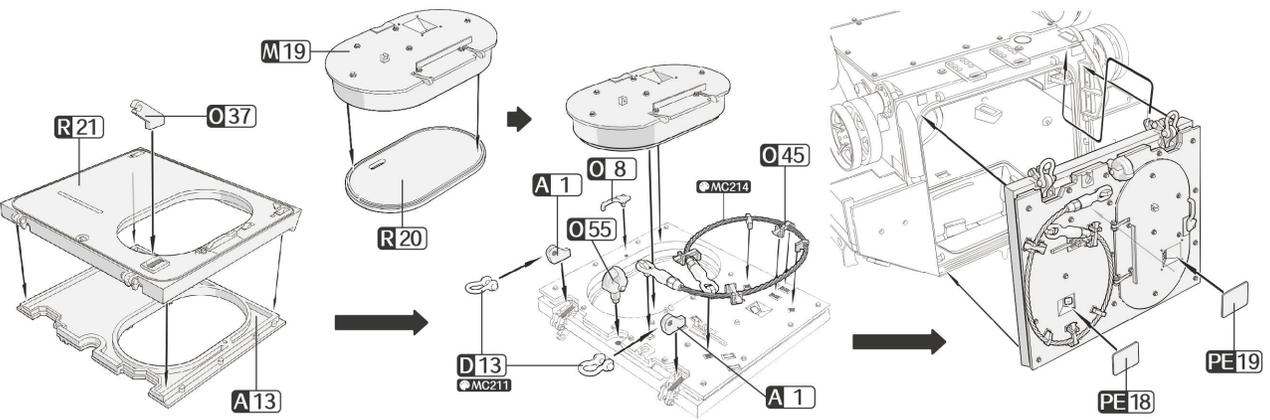


11. 车尾装甲板安装 Rear armor assembly

*注意弯折
*Bend PE6
*制作4套
*Make 4 sets

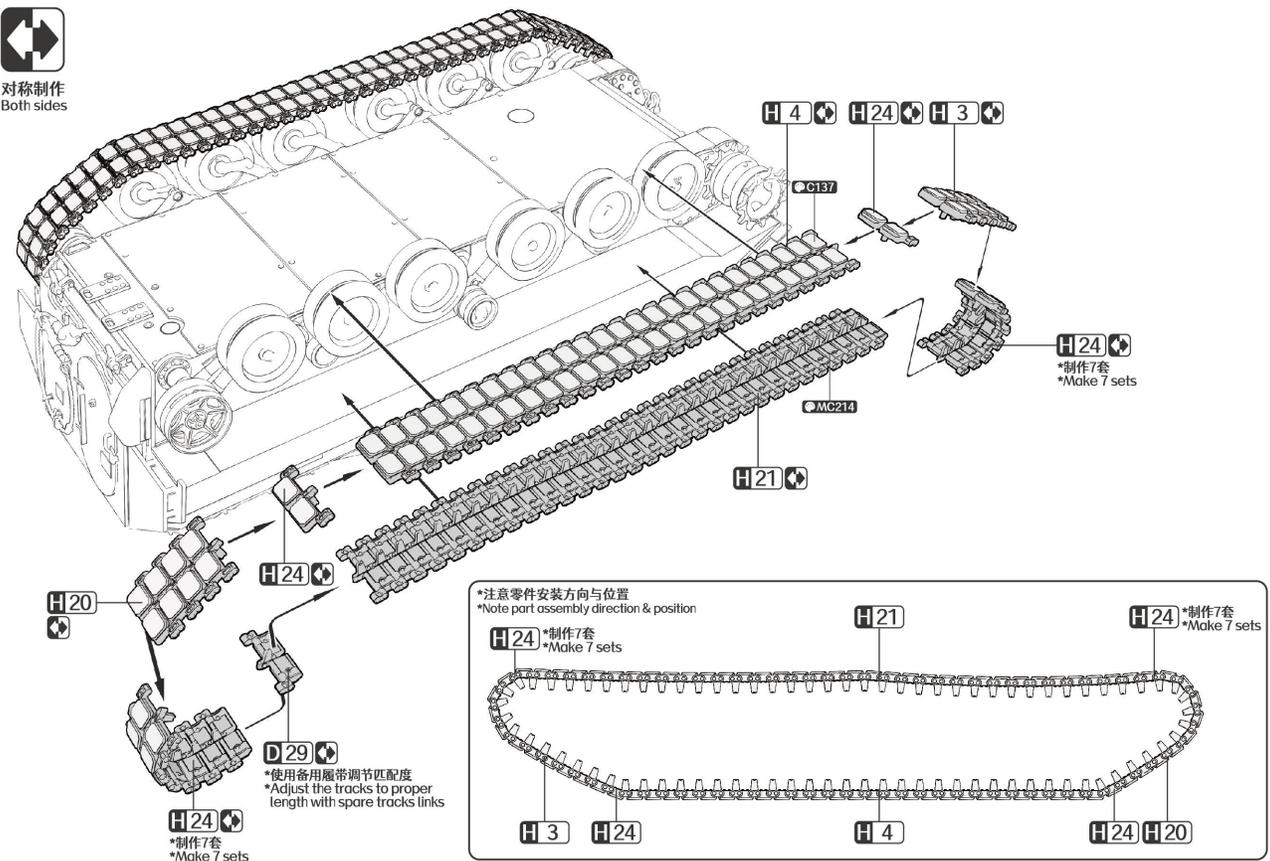


12. 跳板舱门安装 Ramp assembly

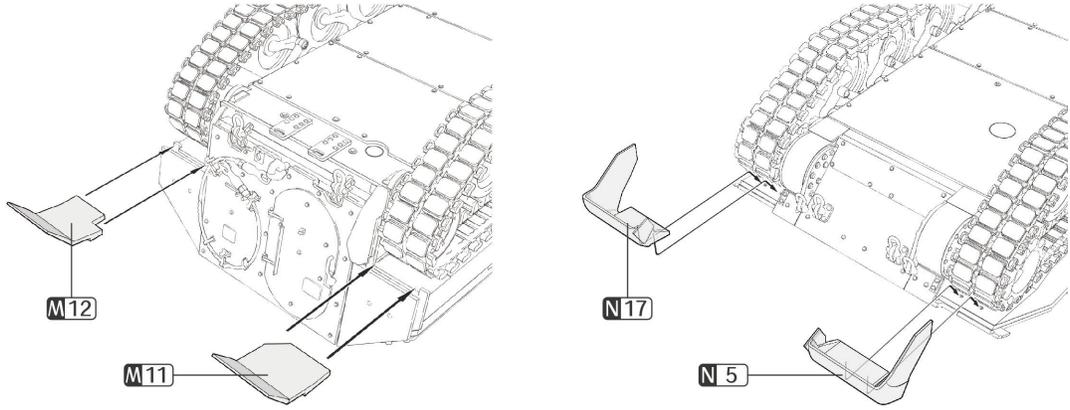


13. 履带安装 Tracks assembly

对称制作
Both sides

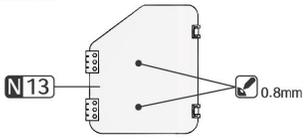


14. 车体挡泥板安装 Fenders assembly



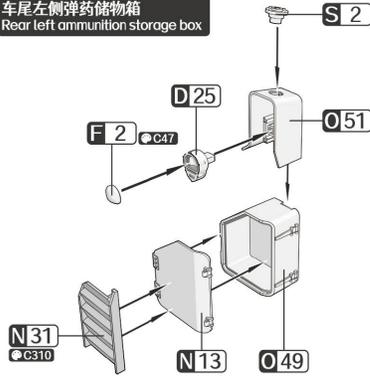
15. 车尾弹药储物箱安装 Rear ammunition storage box assembly

*注意打孔
*Make holes

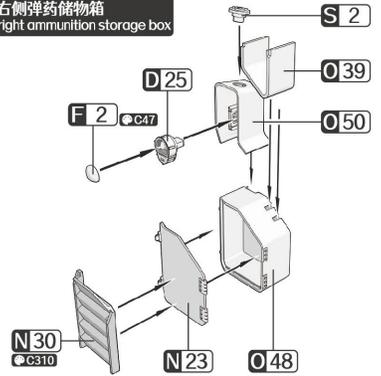


*安装 N31 N30 前, 需提前打孔
*Make holes before assembling part N31 & N30

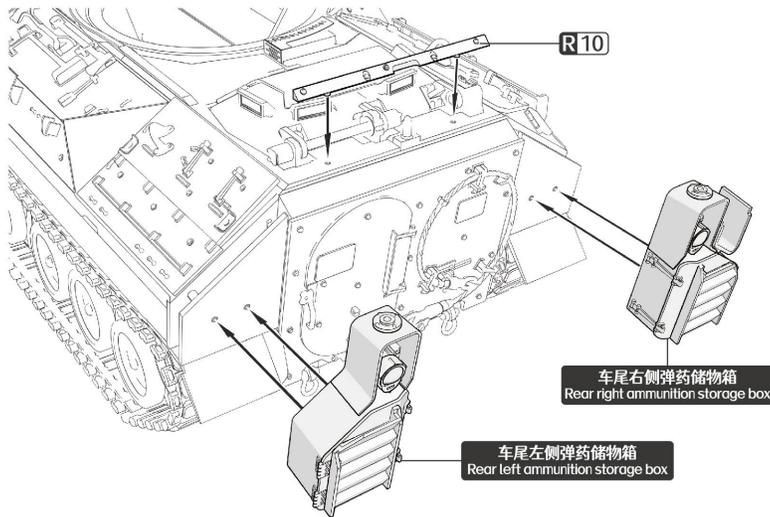
车尾左侧弹药储物箱
Rear left ammunition storage box



车尾右侧弹药储物箱
Rear right ammunition storage box



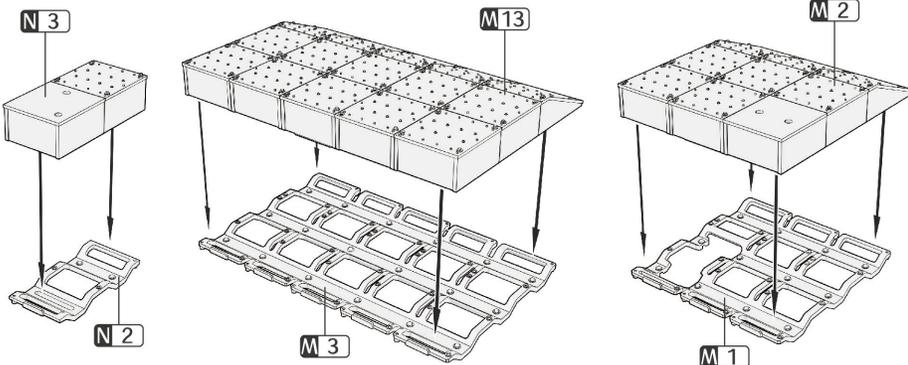
钻孔
Drill hole



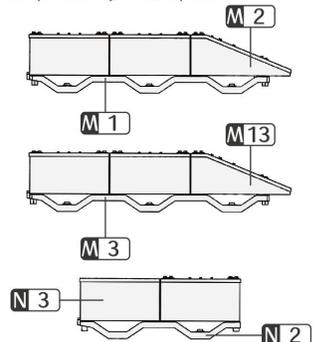
车尾右侧弹药储物箱
Rear right ammunition storage box

车尾左侧弹药储物箱
Rear left ammunition storage box

16. 车首BRAT装甲安装 Front BRAT armor assembly

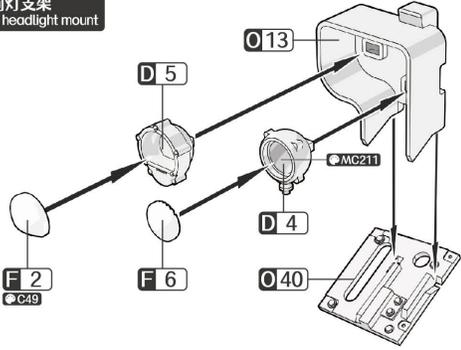


*注意零件安装方向与位置
*Note part assembly direction & position

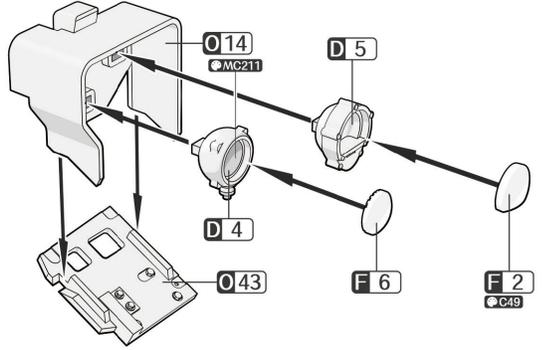


17. 车首前灯支架安装 Headlight amounts assembly

左前灯支架
Left headlight mount



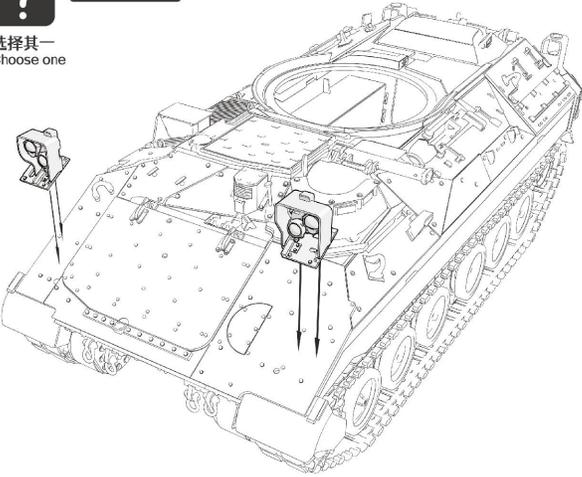
右前灯支架
Right headlight mount



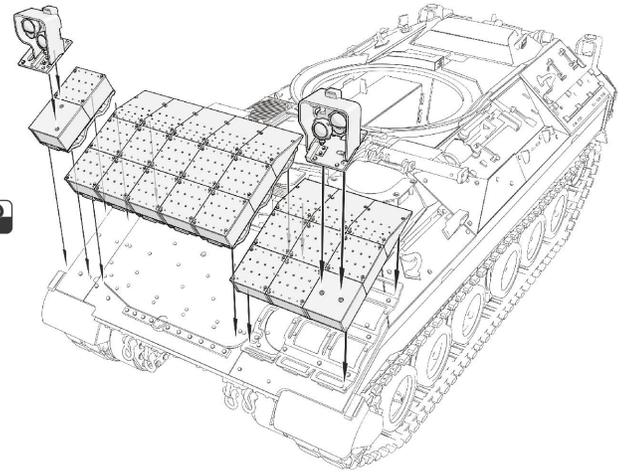
18. 车首前灯安装 Headlights assembly

常规样式选装
Standard version

选择其一
Choose one

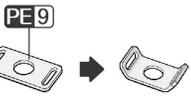


BRAT装甲样式选装
BRAT Armor version



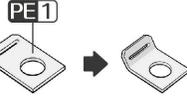
19. 裙板安装 Side skirts assembly

*注意弯折
*Bend



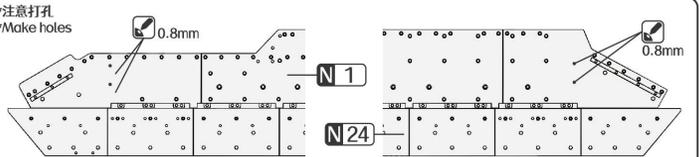
*根据实际需求选装制作数量
*Assembling proper quantity as per your demand

*注意弯折
*Bend

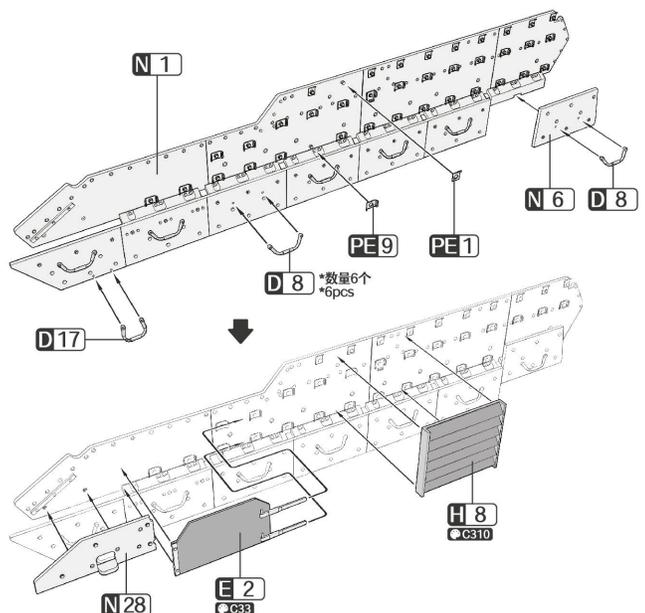
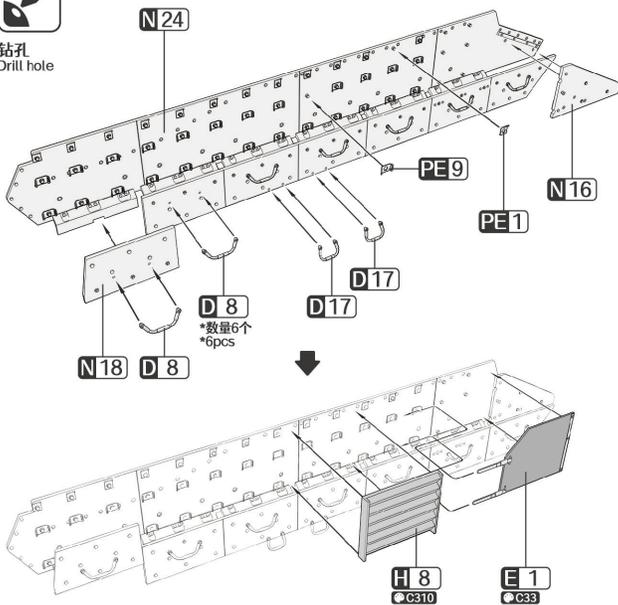


*根据实际需求选装制作数量
*Assembling proper quantity as per your demand

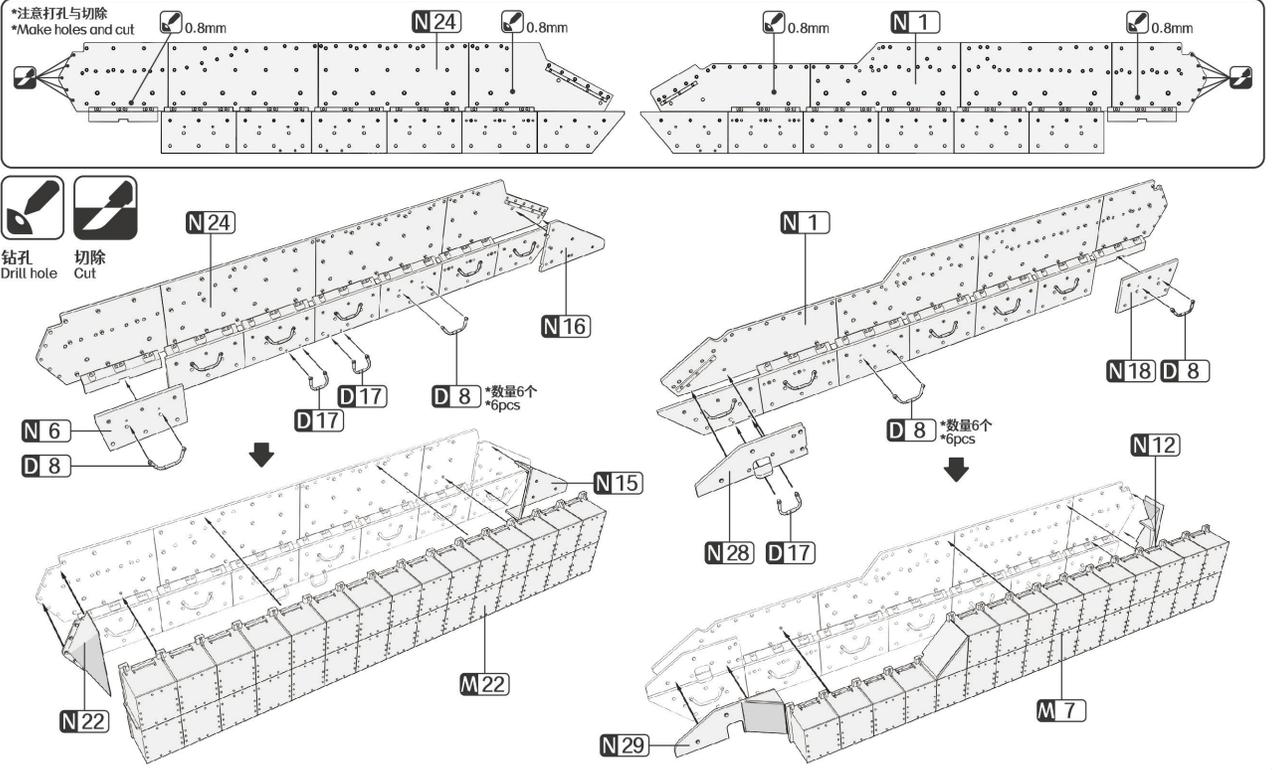
*注意打孔
*Make holes



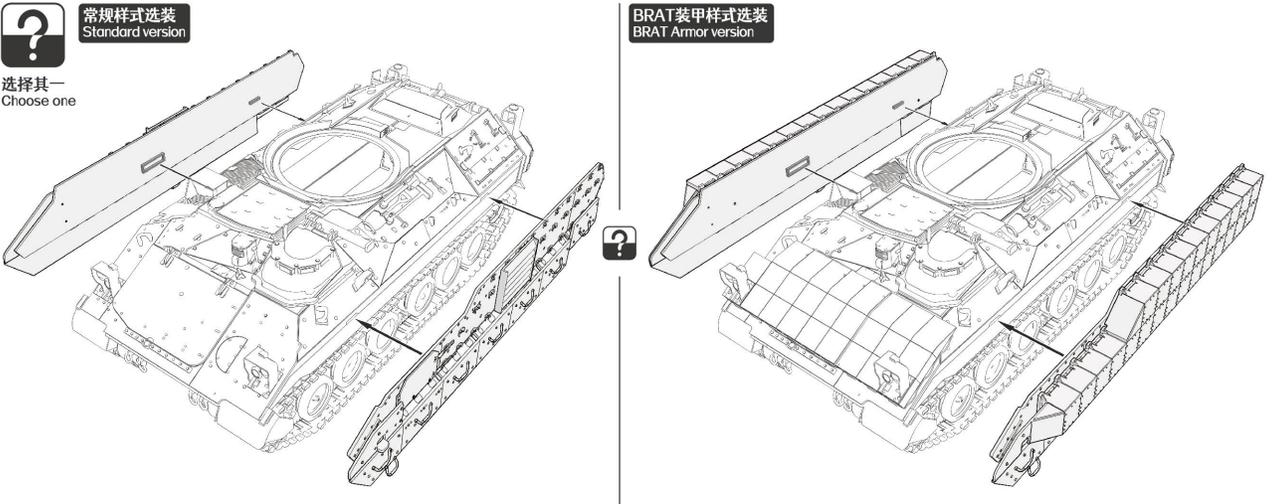
钻孔
Drill hole



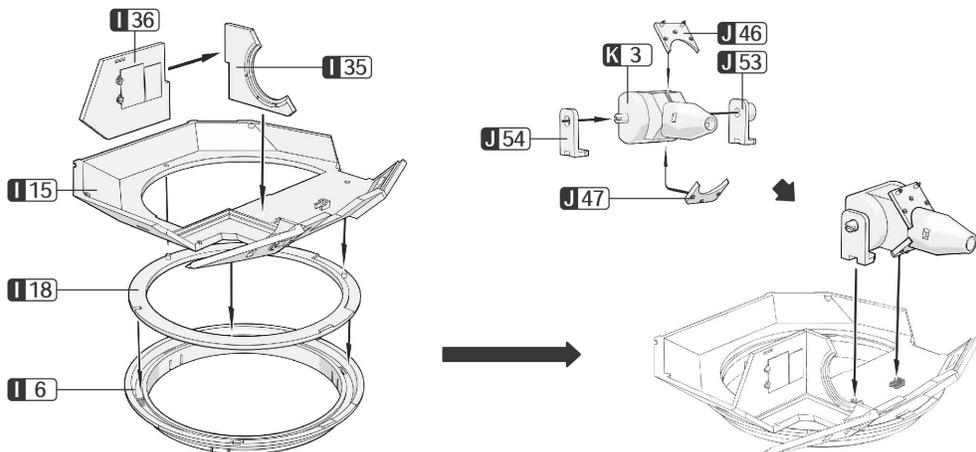
20. 裙板BRAT装甲安装 Side skirt BRAT armor assembly



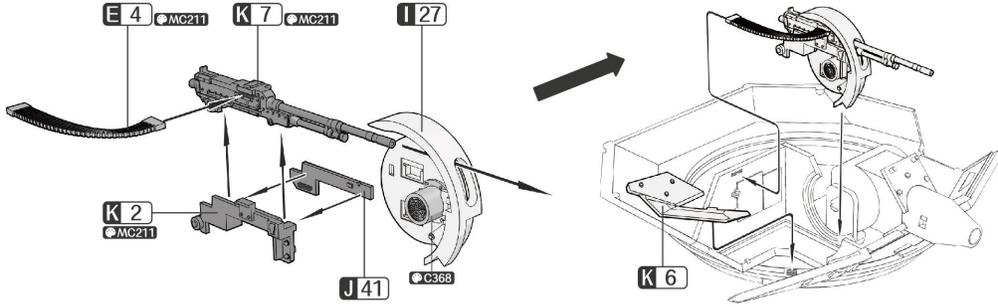
21. 裙板组装 Side skirts attachment



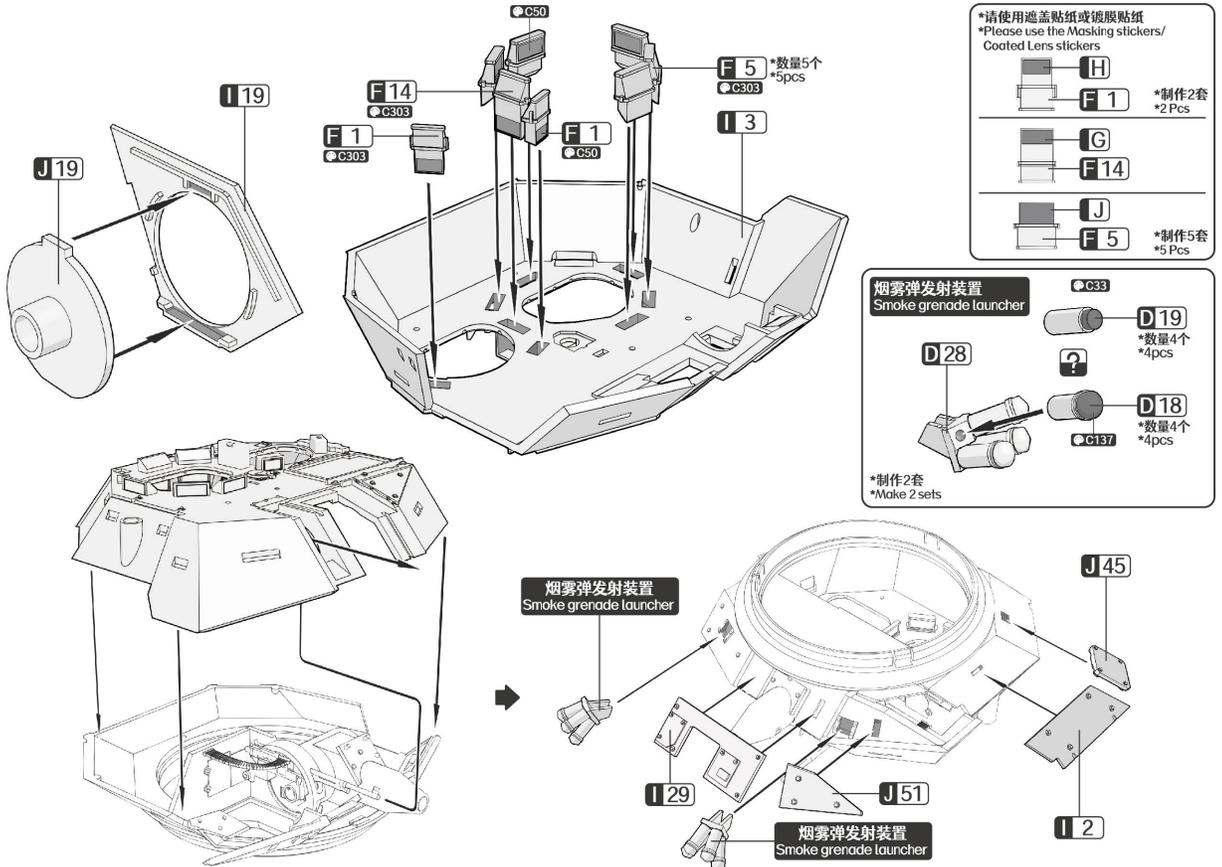
22. 机炮安装 Gun assembly



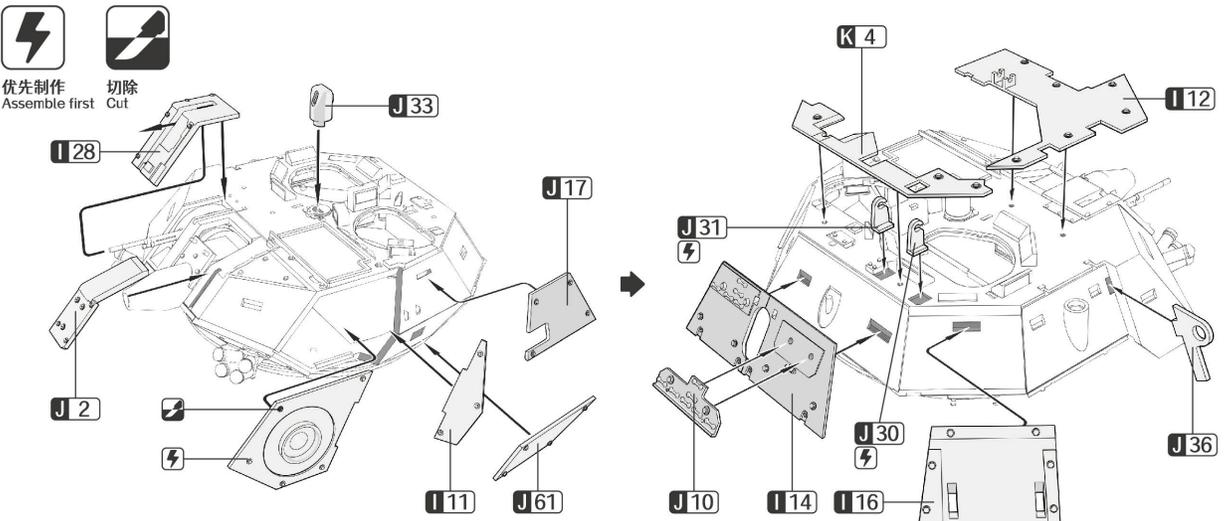
23. 并列机枪安装 Coax machine gun assembly



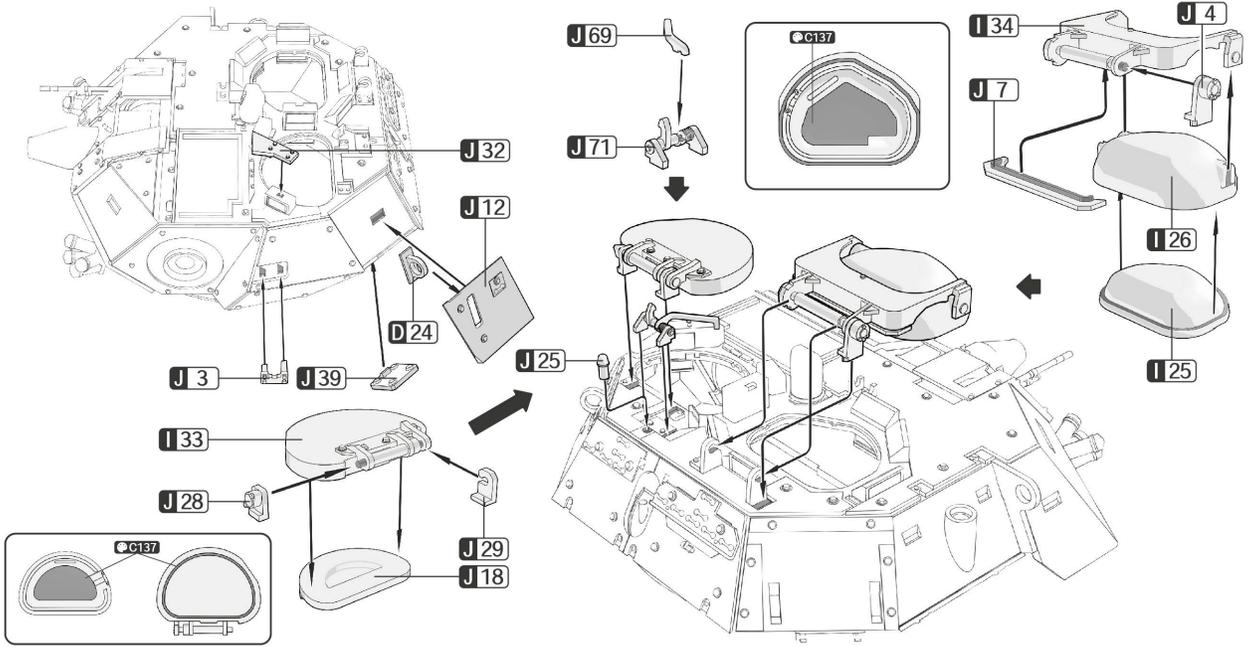
24. 炮塔潜望镜, 烟雾弹发射装置安装 Turret periscope & smoke grenade launcher assembly



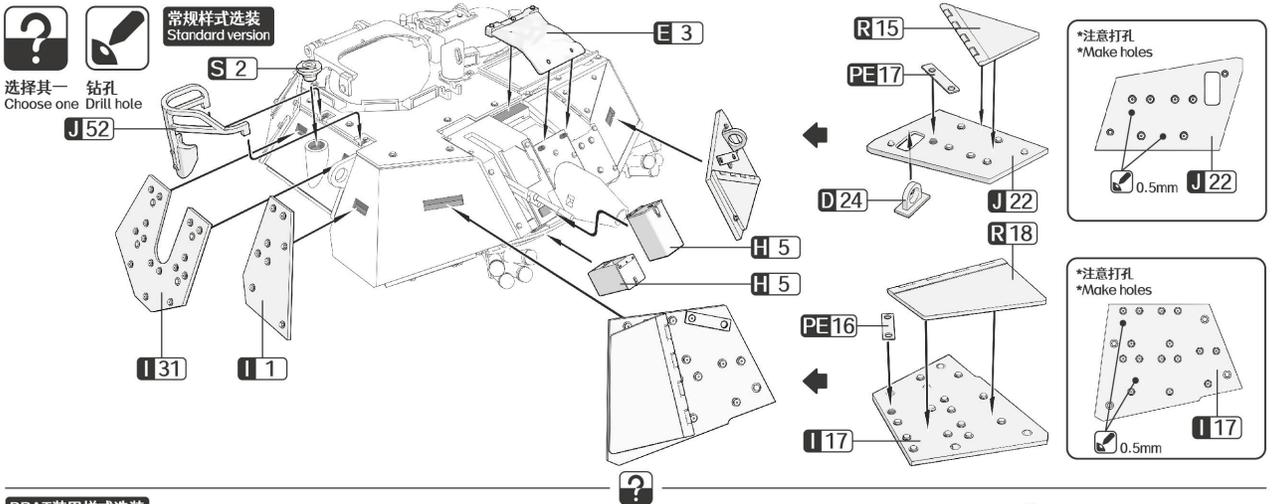
25. 炮塔装甲板安装1 Turret armor assembly 1



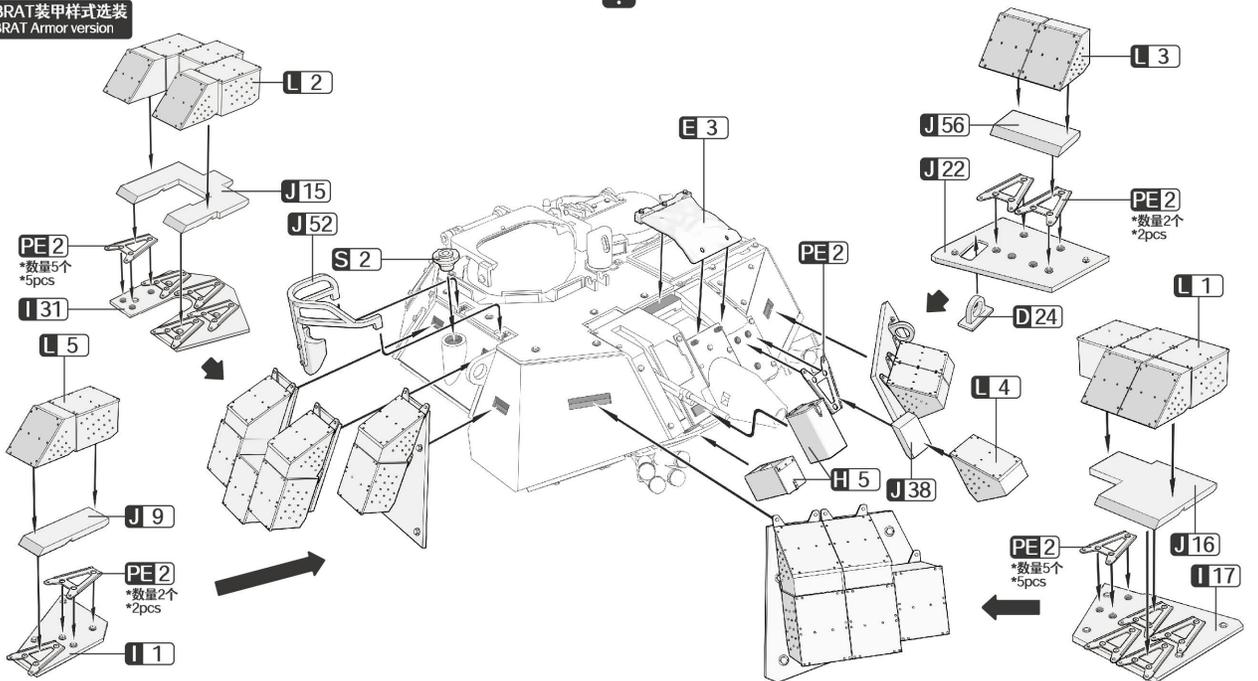
26. 炮塔装甲板安装2 Turret armor assembly 2



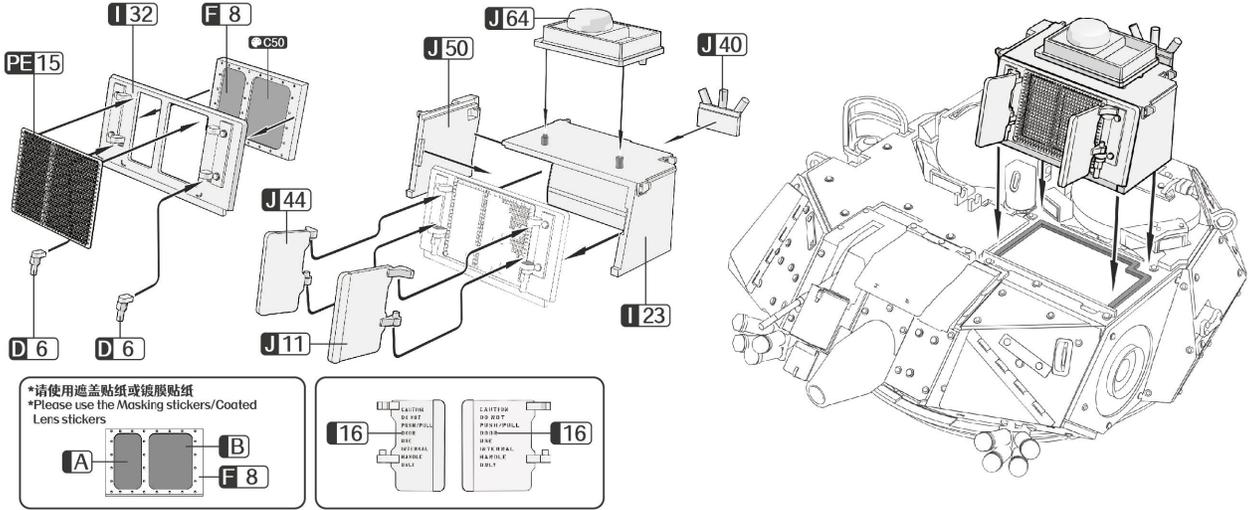
27. 炮塔装甲板及炮塔BRAT装甲安装 Turret armor & turret BRAT armor assembly



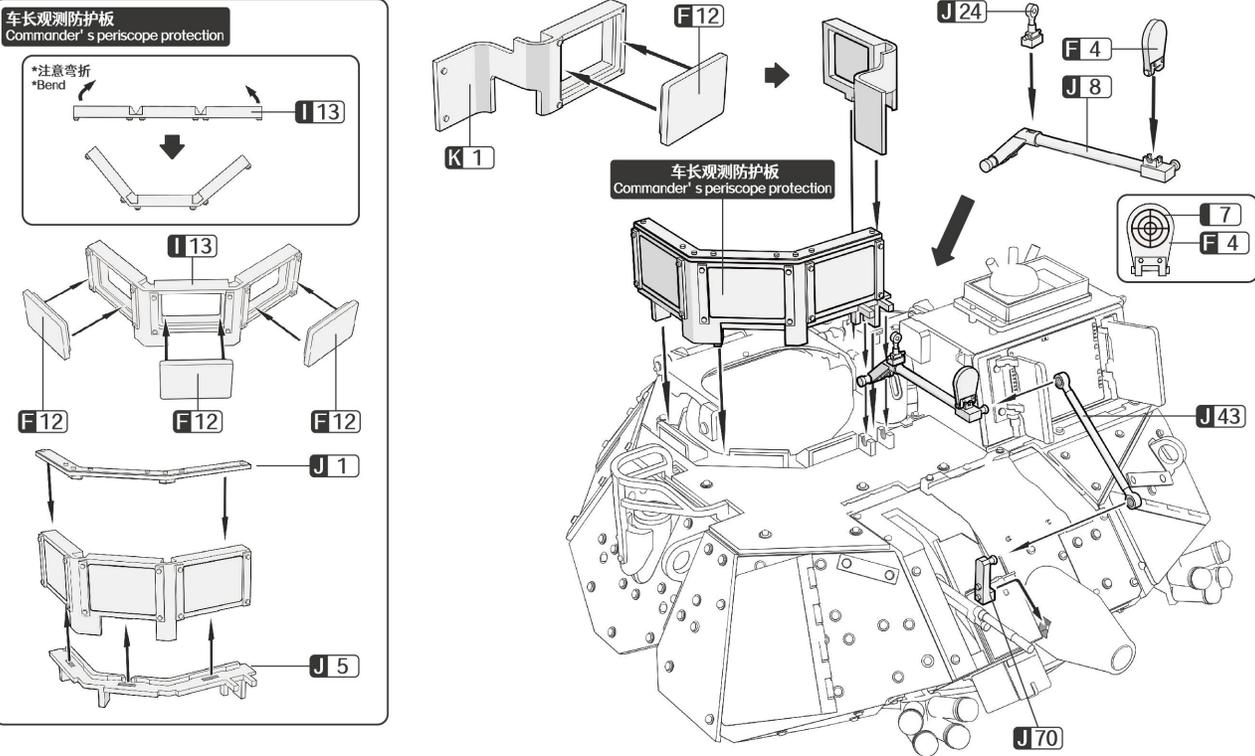
BRAT装甲样式选装 BRAT Armor version



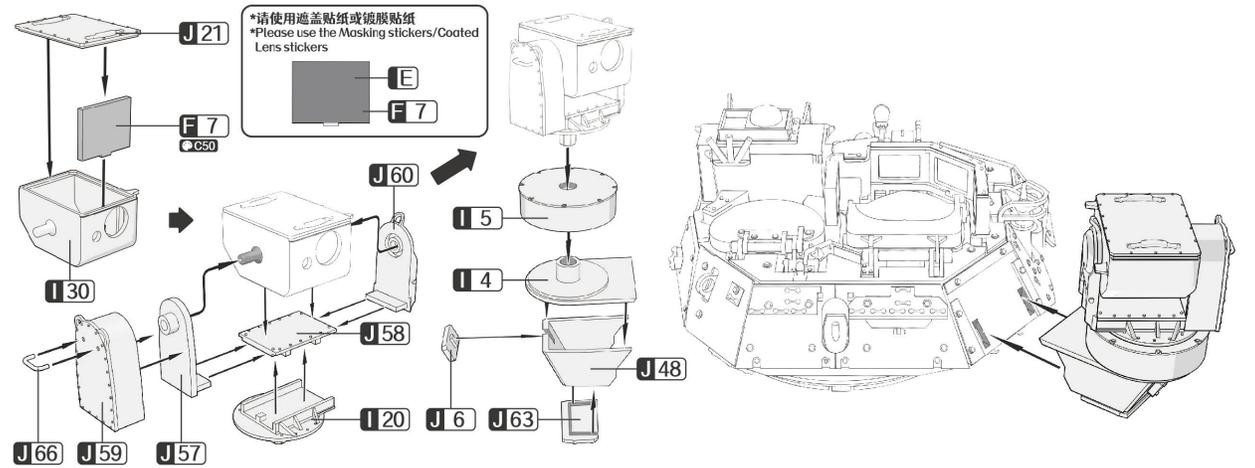
28. 炮长主观瞄装置安装 Gunner's integrated sight unit (ISU) assembly



29. 车长观测防护板安装 Commander's periscope protection assembly



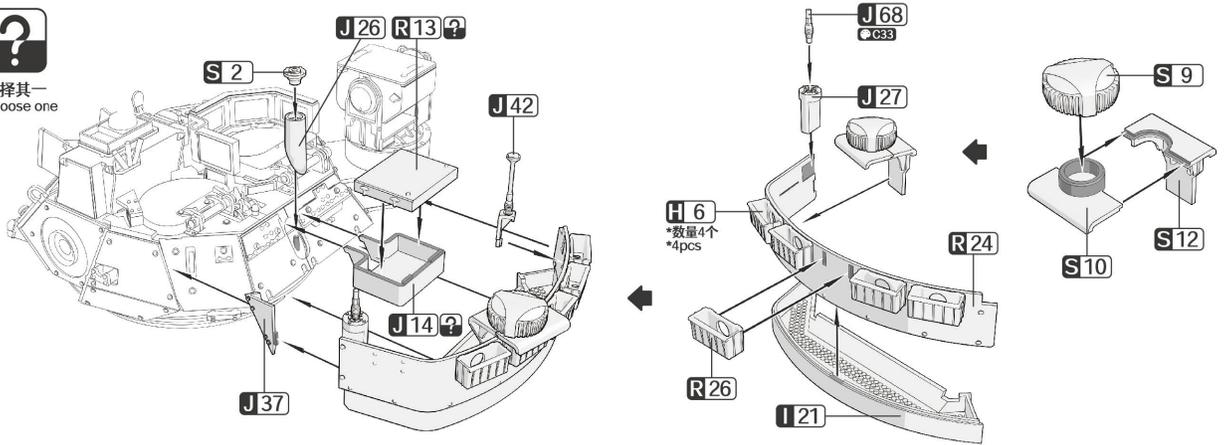
30. 车长热成像周视镜安装 Commander's thermal panoramic sight assembly



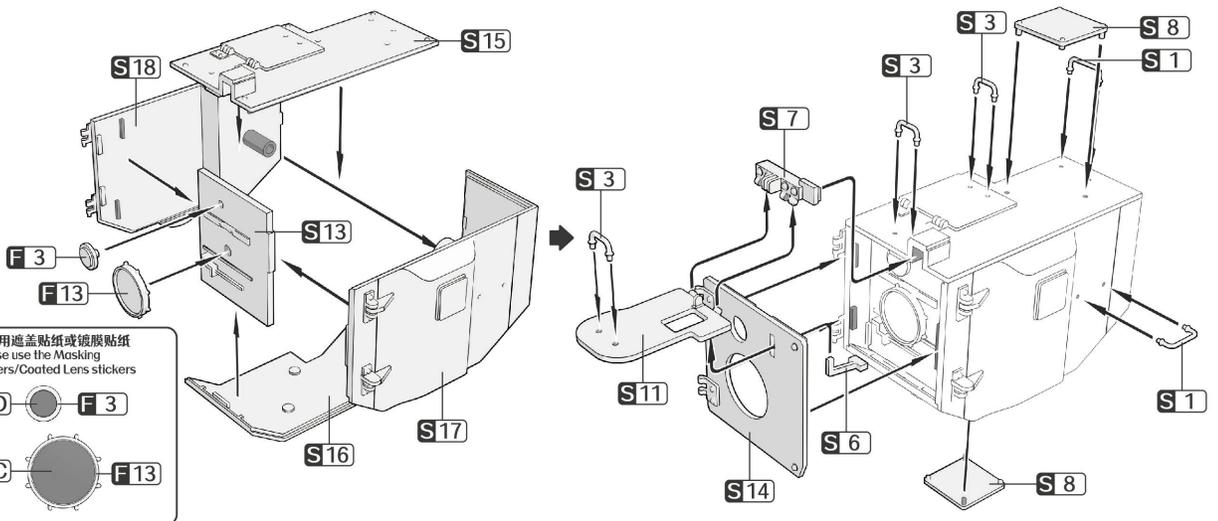
31. 炮塔尾篮安装 Turret rear basket assembly



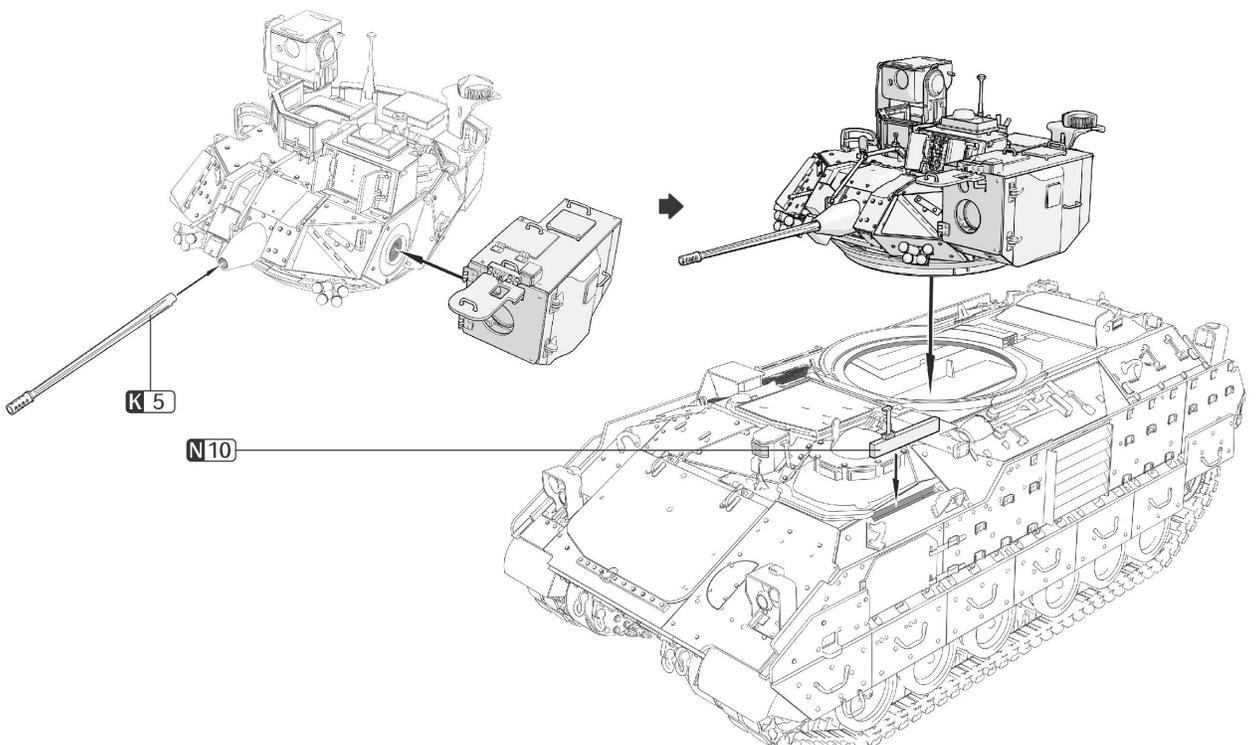
选择其一
Choose one



32. 激光观测定位装置安装 Integrated Fire Support Sensor assembly



33. M7A3 炮塔安装 M7A3 turret assembly



34. 强化型宽带天线安装
Enhanced Whip Antenna assembly

