

M10 "BOOKER"

U.S. Combat Vehicle
Pre-Production

美国陆军新型战车M10“布克”(预生产型)

1/35
SCALE

2008

美国陆军新型战车M10“布克”(预生产型) U.S. Combat Vehicle Pre-Production M10“BOOKER”

在M551“谢里登”轻型坦克退役后，美国陆军的步兵旅战斗队一直缺乏一款火力强大，防护和机动性强的装甲车辆。在伊拉克战争期间装备使用的M1128机动火炮，在打击游击队和抵抗武装的战斗中勉强充当中流砥柱。21世纪的第一个十年后，面对崛起的同等体量潜在对手陆续列装新的轻型坦克，M1128机动火炮在数据上毫无胜算。2015年，美国陆军启动了“机动防护火力”(MPF)项目来填补这一能力空白，为美步兵旅战斗队提供高机动野战支援火力。机动防护火力项目启动后，美国通用动力陆地系统公司的“格里芬2”(“狮鹫2”)轻型坦克方案与英国BAE系统公司的M8轻型坦克方案共同参与竞标测试评估。凭借与M1系列主战坦克大量共用零部件的成本和使用习惯优势，在2022年，美国陆军宣布采用通用动力陆地系统公司的方案，随后双方签订总价约11.4亿美元的合同。2023年6月，在弗吉尼亚州美国陆军成立248周年纪念仪式上正式将“机动防护火力”系统命名为M10“布克”战车。“布克”用于纪念二战和伊拉克战争期间牺牲的两位名叫布克的士兵。

M10“布克”战车采用了传统设计，驾驶员和发动机位于前部，炮塔位于车体后部，战斗全重约42吨。炮塔可容纳三名乘员，包括一名指挥官、一名炮手和一名装填手。M10“布克”战车的主要武器包括一门M35改型105毫米线膛炮、一挺7.62毫米M240C同轴机枪和一挺12.7毫米M2HB机枪。105毫米主炮为手动装填，可以发射穿甲弹和高爆炸弹。炮塔架构基于M1“艾布拉姆斯”坦克，配备了额外的装甲板和车底保护装置，能防护轻武器、炮弹碎片和简易爆炸装置，炮塔前部两侧安装四个烟雾弹发射器。为了车组人员的安全，它还采用了弹药储存隔间系统。在动力系统上，采用发动机前置，散热器后置的布局，M10“布克”战车采用了1台MTU公司的MTU 8V-199柴油发动机，最大功率800马力。它的最大道路速度为65公里/小时，最大道路续航里程为305公里。行走机构采用空心铝制负重轮结合附内液气悬挂系统的方式使车辆具备很强的地形适应能力。M10“布克”还配备了M1A2 Sep V3的火控系统，车长采用法国赛峰公司的PASEO模块化先进稳定瞄准系统，集成有热成像仪，激光测距仪，昼间电视，瞄准线双向稳定。即使在高速行驶的情况下，也能提供很强的战车态势感知能力。一架C-17运输机上可同时运输两辆M10“布克”战车。从后勤角度看，M10“布克”战车将比美军现役主力战车M1“艾布拉姆斯”坦克更利于机动，不只有重量较轻、使用燃料较少，且弹药与零件的需求也更低，便于为快速投送的美军部队提供火力与防护力。

M10“布克”并不会很快投入使用。在接下来的两年里，该平台将在沙漠、北极、温带和热带条件下对车辆进行一系列生产鉴定和测试以确保其生存能力。2024年4月，第82空降师73装甲骑兵团正式装备该车，美国陆军第101空降师于2027年第二季度开始接收该车。

美军计划2025年开始批量生产M10“布克”战车，2030年前能装备4个“布克”战车营生产计划一直持续到2035年，总产量预计超过500辆，可装备12个轻型坦克营。每个营42辆坦克，这些坦克营会编入空降师，空中突击师，旅级战斗队，负责为步兵提供火力支援，填补M1主战坦克和M2步兵战车之间的火力空白。

U.S. Army has been lacking an armored vehicle with powerful firepower, protection and high mobility after the retirement of the M551 "Sheridan" tank. The M1128 MGS (Mobile Gun System) has become the mainstay in the combat when against the local resistance forces during Iraq war. The first decade of 21st century, U.S. Army found M1128 MGS has no chance of winning against the new tanks equipped by primary opponents countries. In 2015, U.S. Army started MPF program (Mobile Protected Firepower) for providing supporting fire for the Infantry in combat. In December 2018, GDLS was downselected, along with BAE Systems, to develop prototypes. GDLS presented its first prototype in April 2020. BAE's M8 AGS proposal was disqualified in March 2022. In June 2022, GDLS won the Mobile Protected Firepower program competition and was awarded a contract worth up to \$1.14 billion. The U.S. Army unveiled its new M10 Booker combat vehicle during a celebration of the service's 248th birthday on Saturday in Virginia. The combat vehicle's name from who served the nation selflessly during times of great conflict — Medal of Honor recipient Pvt. Robert D. Booker, who perished in World War II; and Distinguished Service Cross recipient Staff Sgt. Stevon A. Booker, who died from injuries sustained in Operation Iraqi Freedom.

The design of the M10 Booker is conventional with the driver and engine at the front and the turret located at the rear of the hull. The turret accommodates a crew of three including a commander, gunner, and loader and it is to weigh about 42 tons. The main armament of the M10 Booker consists of one 105mm cannon based on the American M35 and a 7.62mm machine gun mounted coaxially. The 105mm cannon can fire APDS (Armour-Piercing Discarding Sabot) and HE (High Explosive) which is loaded manually. Two banks of four smoke grenade launchers are mounted on each side at the front of the turret. The turret architecture is based on the M1 Abrams tank and equipped with additional armor plating and hull protection to protect against small arms fire, shrapnel and IED attack, also it features an ammunition storage compartment system for the crew's safety. The M10 Booker is powered by a MTU diesel engine developing 800 hp and Allison transmission system, offering a superb power-to-weight ratio and hydro-pneumatic suspension. It can run at a maximum road speed of 65 km/h and has a maximum road range of 305 km (190 miles). M10 Booker uses the M1A2 Sep V3 fire control system and CITV (Commander's Independent Thermal Viewer), M10 Booker is equipped with the Safran Optics 1's PASEO Commander's Independent Tactical Viewer (CITV) long-range panoramic targeting sight. It increases the situational awareness capabilities of armored and surveillance vehicles in all combat scenarios (stationary and on-the-move) even at high speeds. The vehicle light enough that two can be flown on an Air Force C-17 Globemaster III. M10 Booker tank will be more mobile than the current M1 Abrams tank. Not only will it be lighter and use less fuel, but it will also require less ammunition and parts, making it easier to provide firepower and protection for rapidly deployed.

The M10 Booker will not be entering service very soon. Over the near future, the M10 Booker will undergo a series of production qualification and testing of the vehicle in desert, arctic, temperate and tropical conditions to ensure its survivability. April 2024, the 82nd's new Booker Combat Vehicles will go to 3rd Battalion, 73rd Cavalry Regiment. And the 101st Airborne Division will begin receiving Bookers by the second quarter of FY2027.

The Army is projected to buy 504 M10 Bookers by 2035. The vehicles will be used to establish armored battalions in light infantry divisions and brigades that otherwise have no armored vehicles. After the 82nd Airborne, other candidate units include the 10th Mountain Division, 11th Airborne Division, 25th Infantry Division, 29th Infantry Division, and 173rd Airborne Brigade. A brigade might receive between 15 and 20 Bookers, while a division could receive up to 45-60.

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

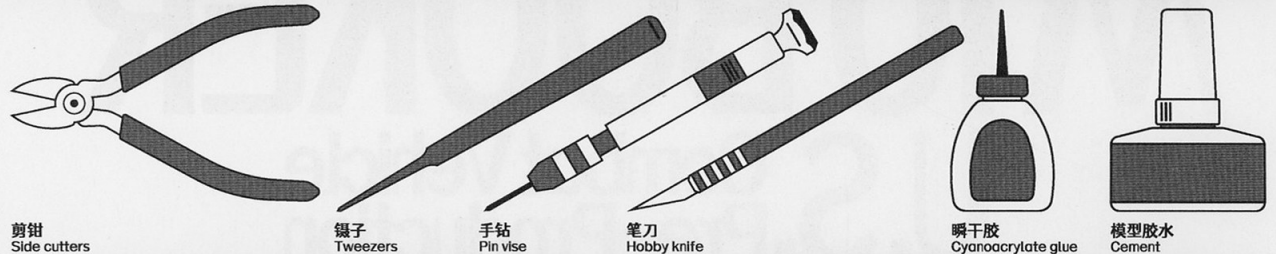
注意

- 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

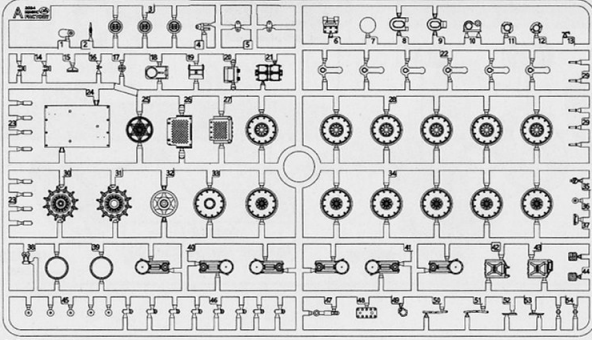
- This model kit is for user aged 14 or above. User under 14 should be accompanied by parents when building this kit.
- Don't swallow any items in the package, including but not limited to parts, stickers, manual and vinyl bags.
- Please throw the vinyl bags away once you unpacked parts. Don't put the 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

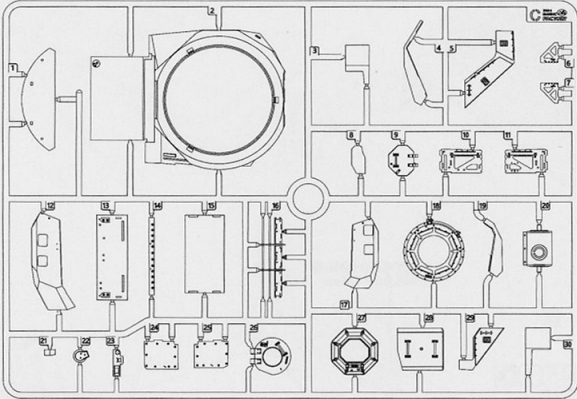


图标说明 Icon

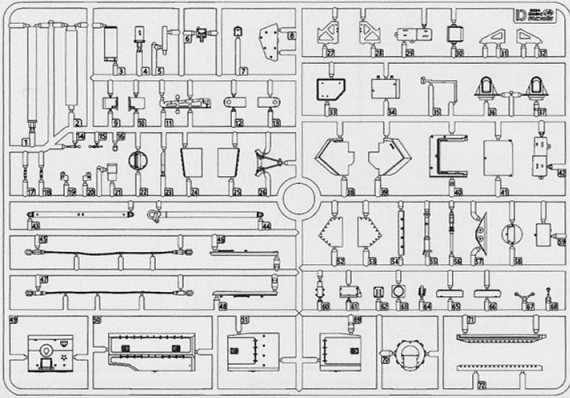




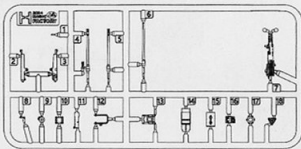
板件A X2
Part A X2



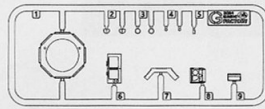
板件C X1
Part C X1



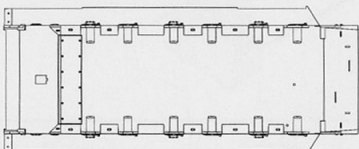
板件D X1
Part D X1



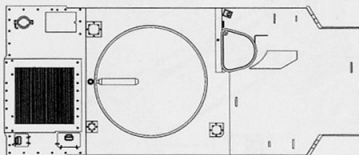
板件H X1
Part H X1



板件G X1
Part G X1



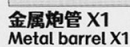
下车体 X1
Lower Hull X1



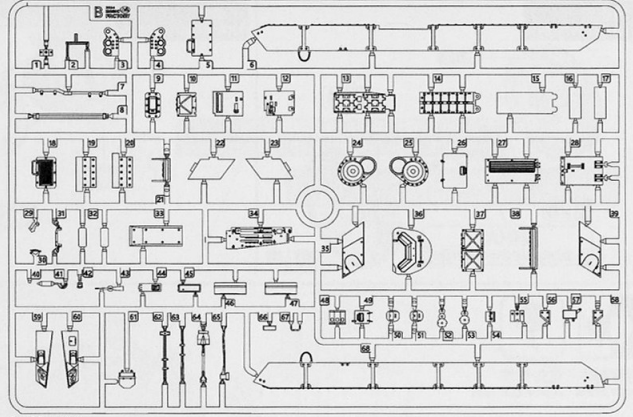
上车体 X1
Upper Hull X1



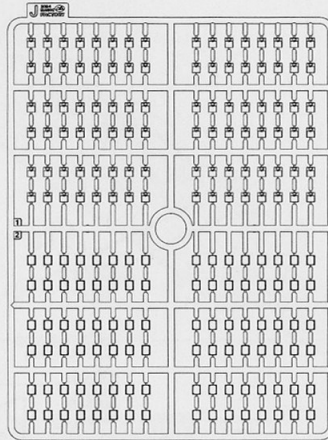
炮塔 X1
Turret X1



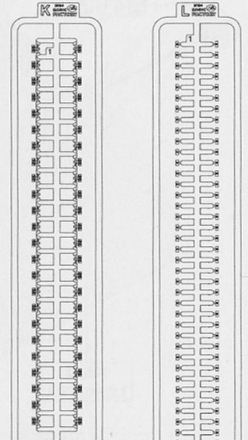
金属炮管 X1
Metal barrel X1



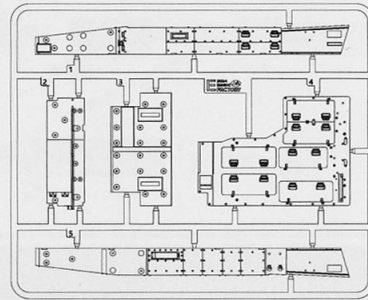
板件B X1
Part B X1



板件J X4
Part J X4

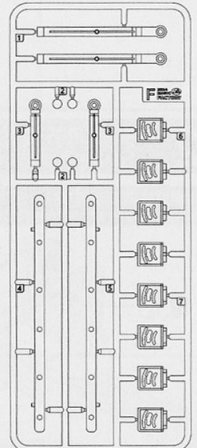


板件K X4
Part K X4

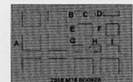


板件E X1
Part E X1

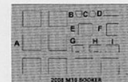
板件L X4
Part L X4



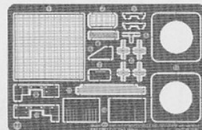
板件F X1
Part F X1



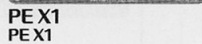
虹膜贴纸 X1
Coated Lens Stricker X1



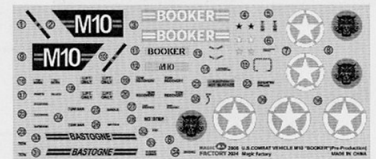
遮盖贴纸 X1
Masking Sticker X1



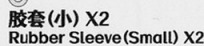
金属销钉 X360
Metal Shaft X360



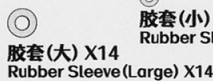
PE X1
PE X1



水贴 X1
Decal X1



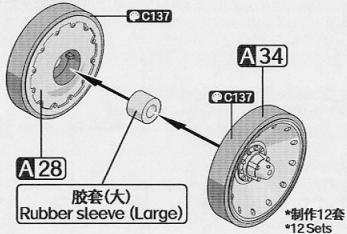
胶套(小) X2
Rubber Sleeve(Small) X2



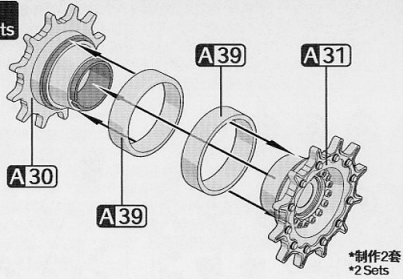
胶套(大) X14
Rubber Sleeve(Large) X14

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

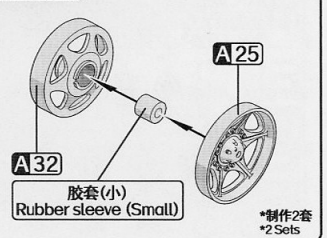
负重轮 Road Wheels



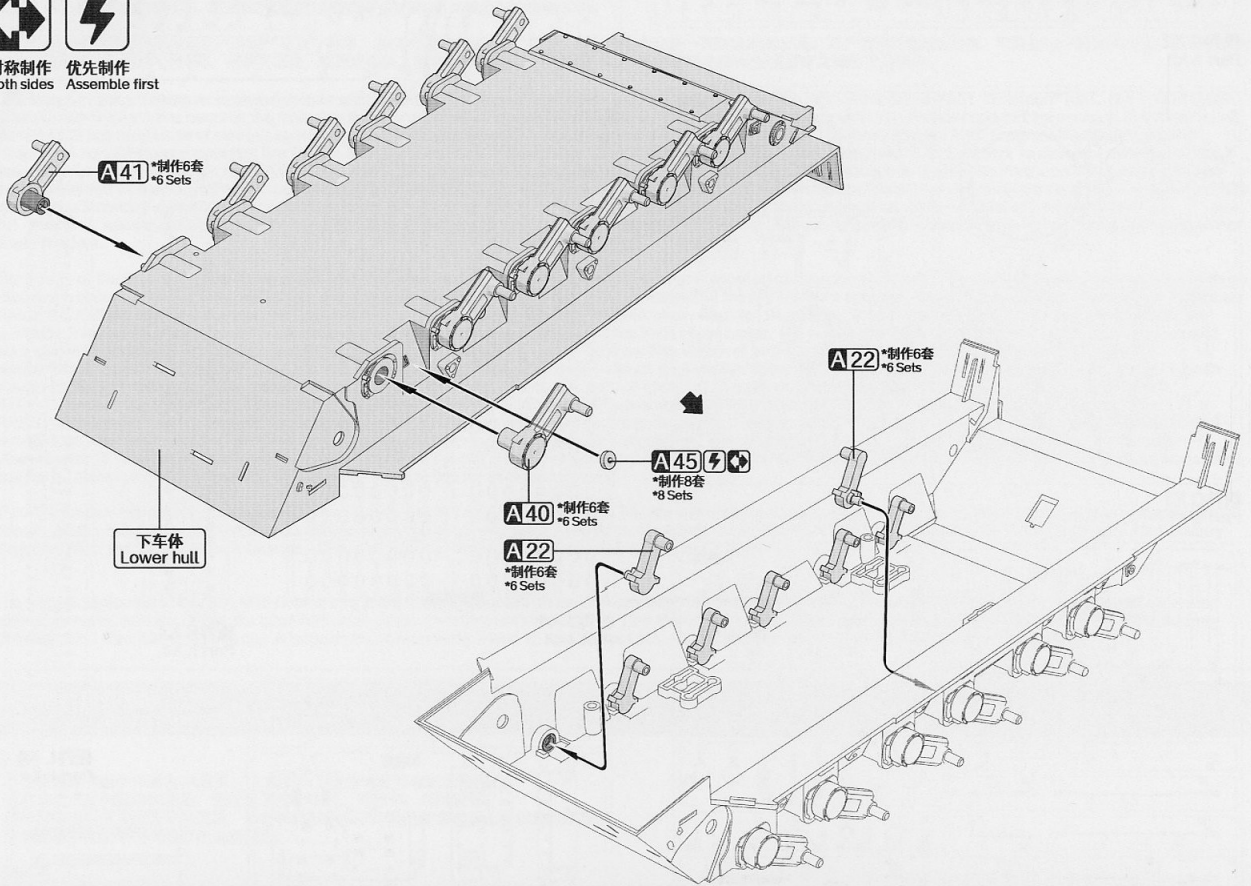
主动轮 Drive Sprockets



诱导轮 Idler Wheels

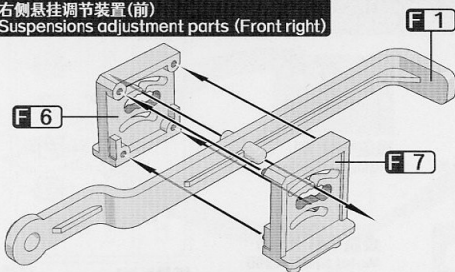


对称制作 优先制作
Both sides Assemble first

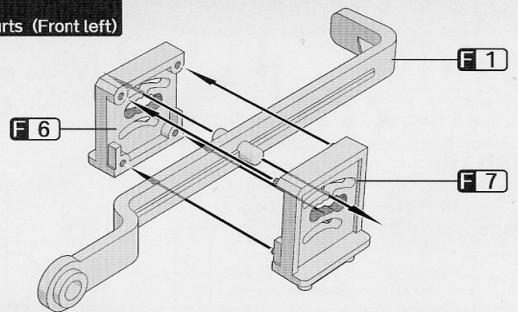


2. 悬挂调节装置安装 Suspensions adjustment parts assembly

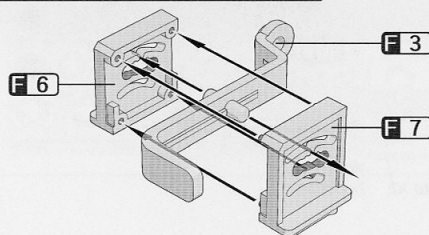
右侧悬挂调节装置(前) Suspensions adjustment parts (Front right)



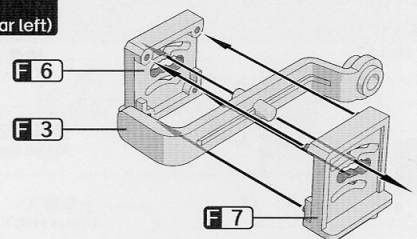
左侧悬挂调节装置(前) Suspensions adjustment parts (Front left)



右侧悬挂调节装置(后) Suspensions adjustment parts (Rear right)



左侧悬挂调节装置(后) Suspensions adjustment parts (Rear left)



3. 悬挂调节装置组装 Suspensions adjustment parts assembly



悬挂活动状态选装
Suspension active status

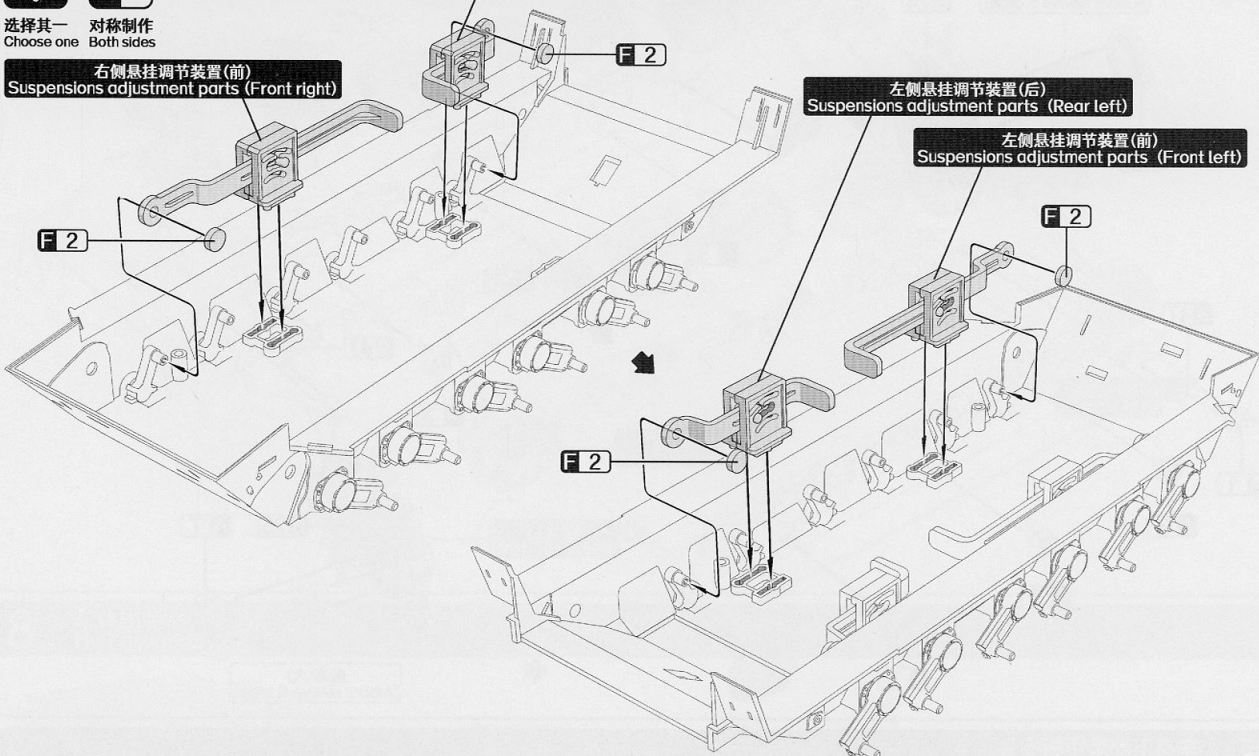
右侧悬挂调节装置(后)
Suspensions adjustment parts (Rear right)

选择其一 对称制作
Choose one Both sides

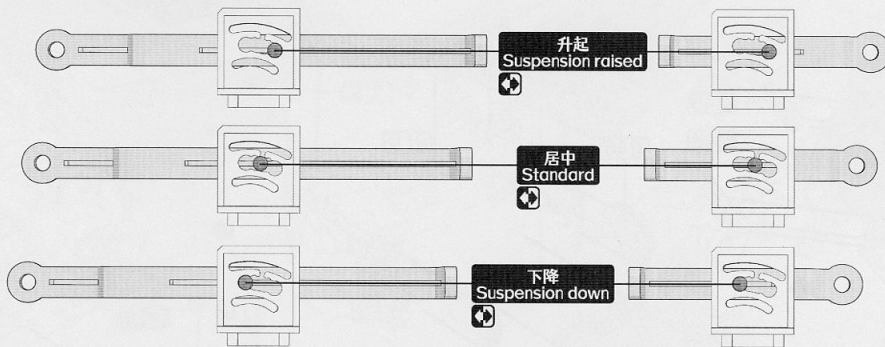
右侧悬挂调节装置(前)
Suspensions adjustment parts (Front right)

左侧悬挂调节装置(后)
Suspensions adjustment parts (Rear left)

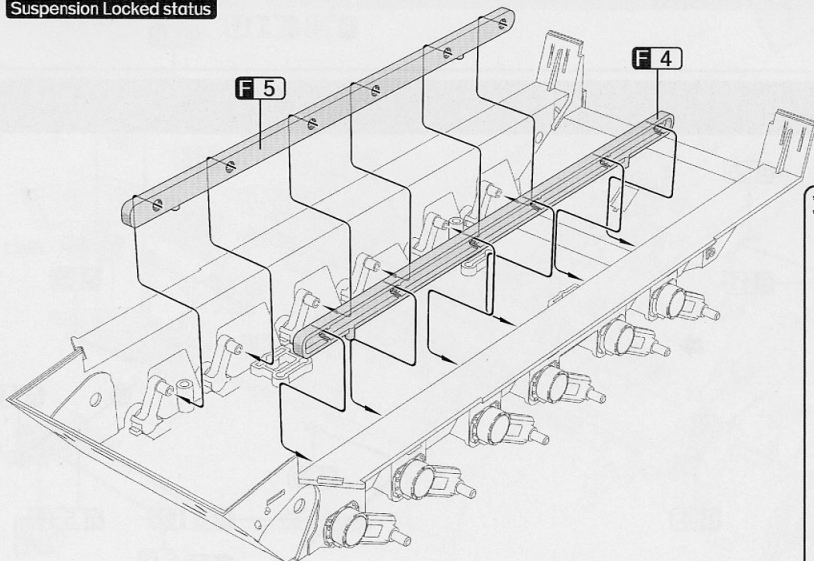
左侧悬挂调节装置(前)
Suspensions adjustment parts (Front left)



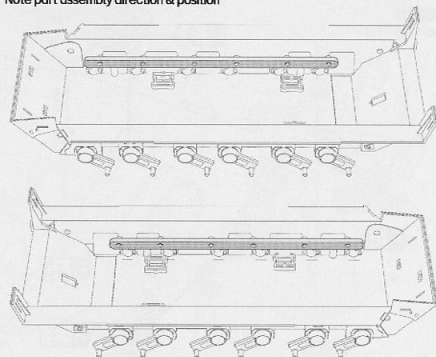
*卡棒位置对应悬挂高度示意图
*Suspension adjustment lever position annotation



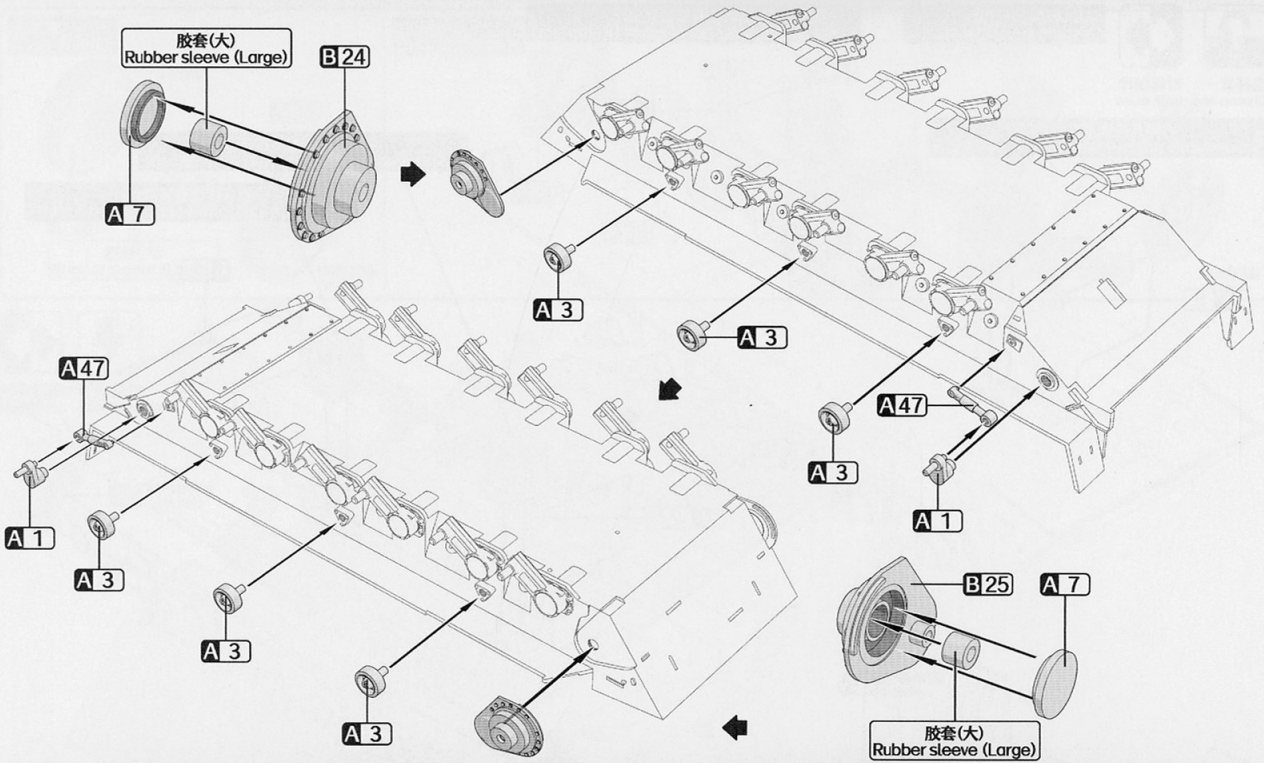
悬挂锁定状态选装
Suspension Locked status



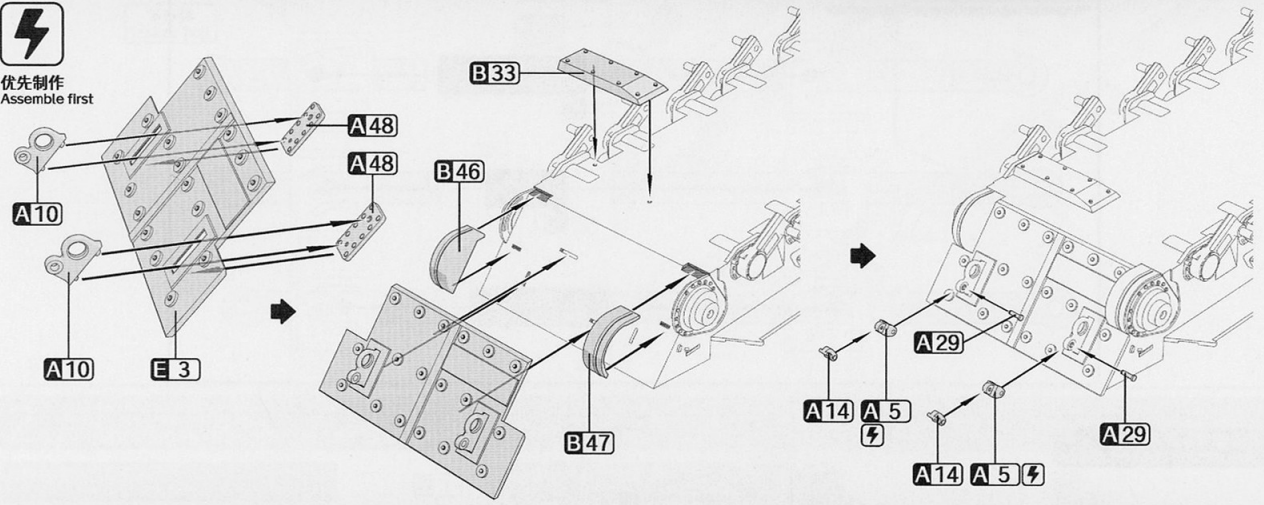
*注意零件安装方向与位置
*Note part assembly direction & position



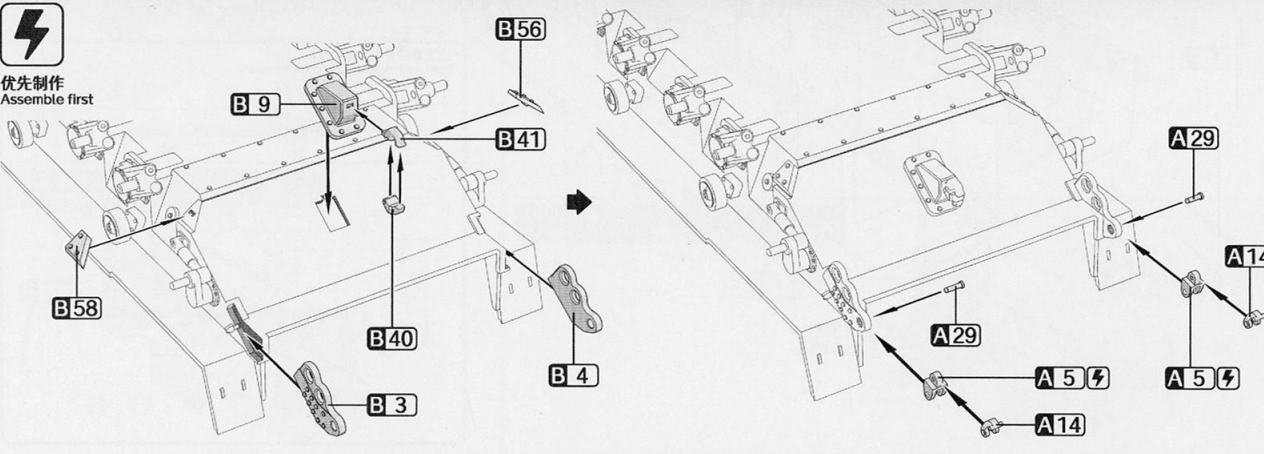
4. 轮组安装基座安装 Running gear part assembly



5. 车首下部装甲板安装 The hull front armor plate assembly



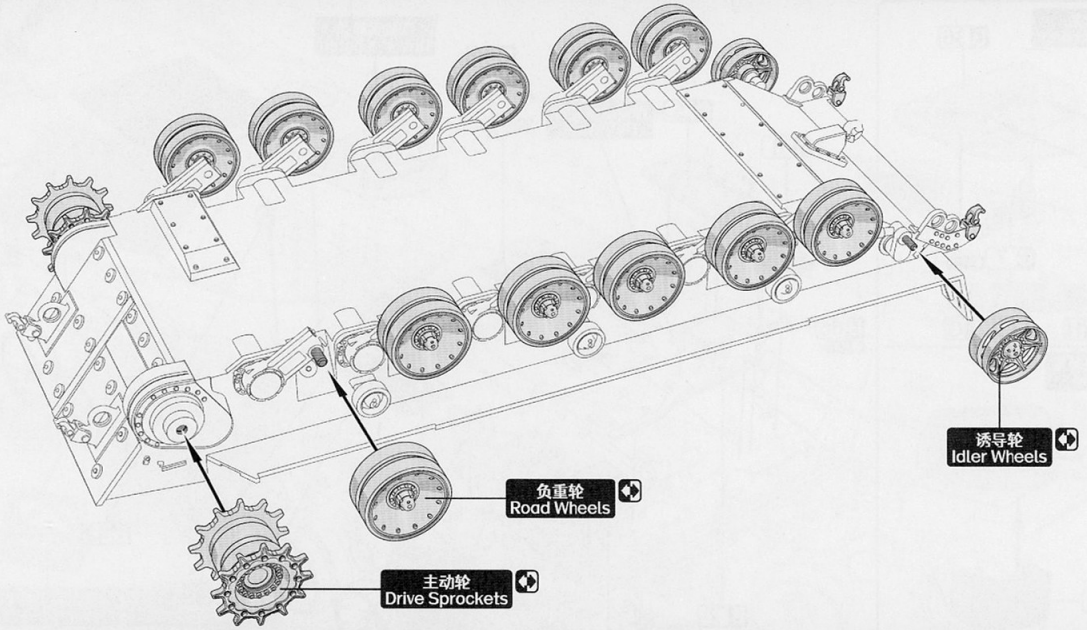
6. 车尾牵引挂钩安装 The hull rear towing parts assembly



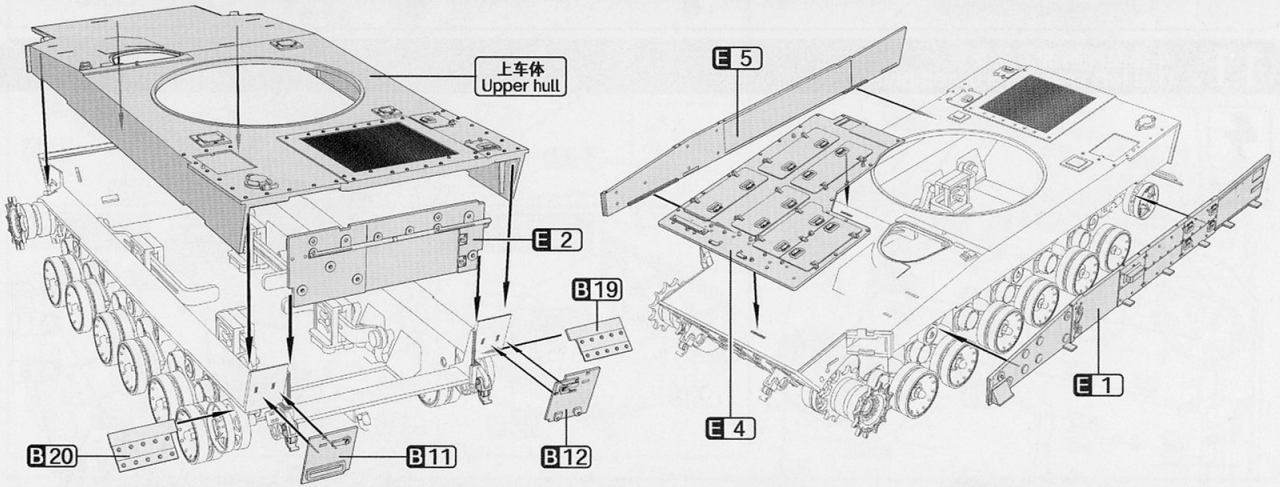
7. 轮组组装 Wheels assembly



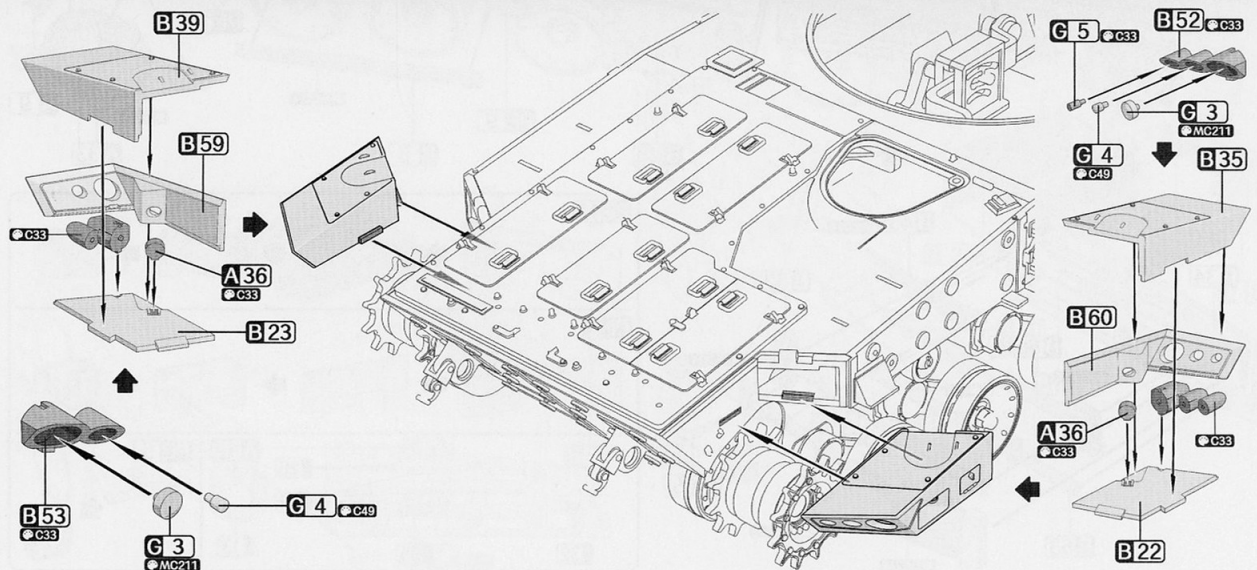
对称制作
Both sides



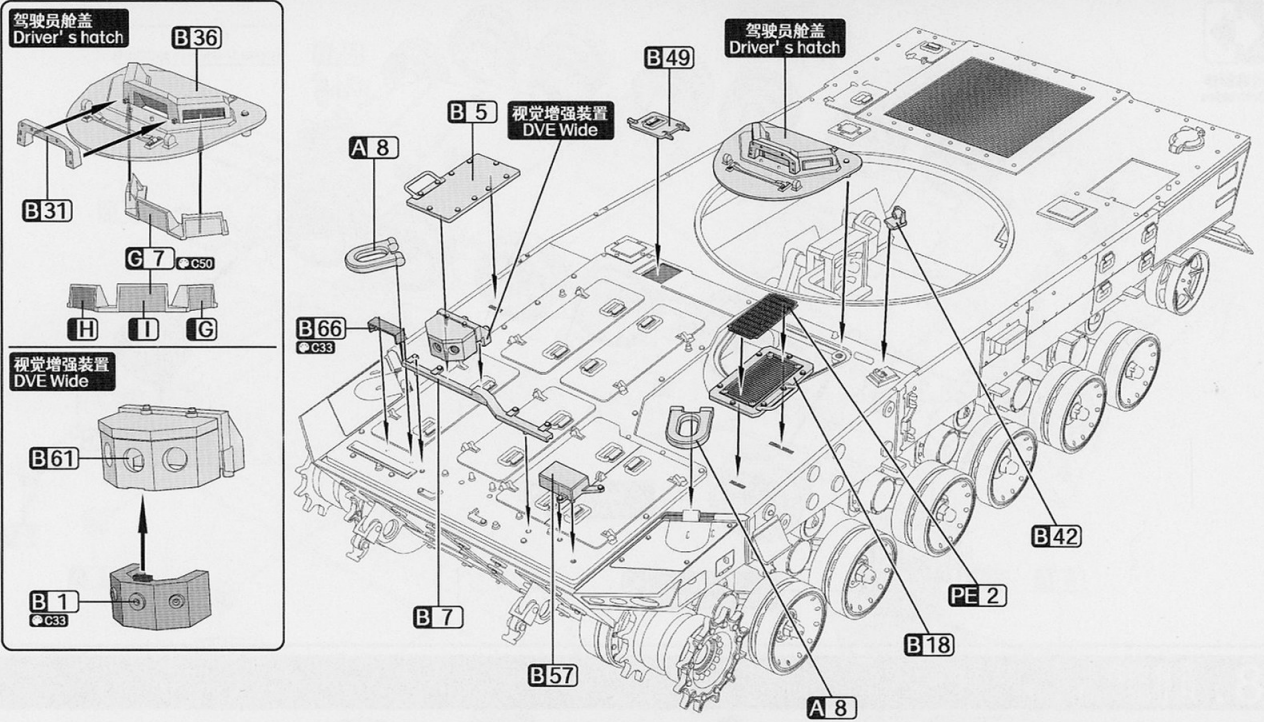
8. 车体组装 Hull assembly



9. 前车灯安装 Front light assembly

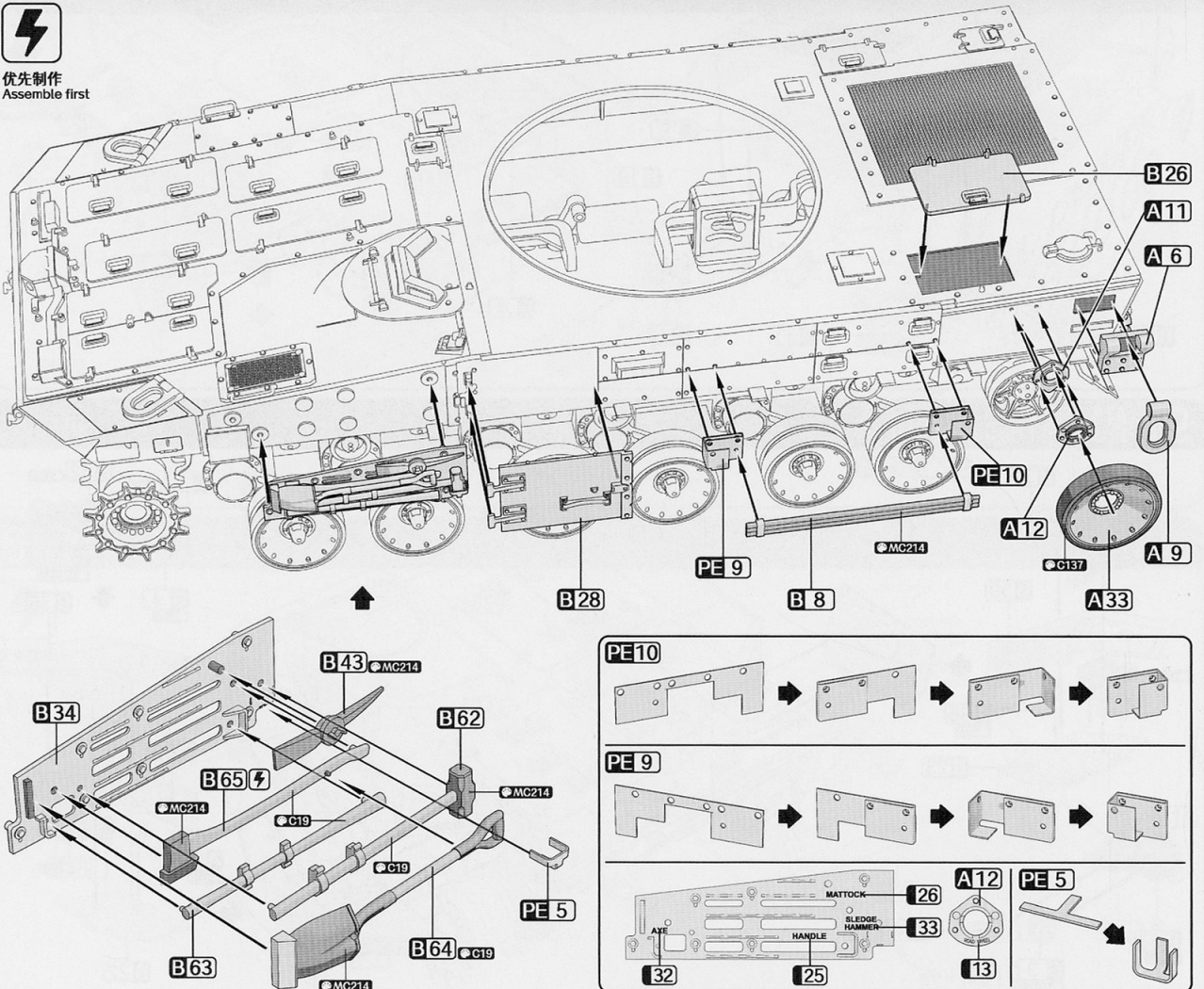


10. 驾驶员舱盖、视觉增强装置安装 Driver's hatch & Driver's Vision Enhancer (DVE) Wide assembly



11. 车体左侧附加工具安装 Hull left side tools assembly

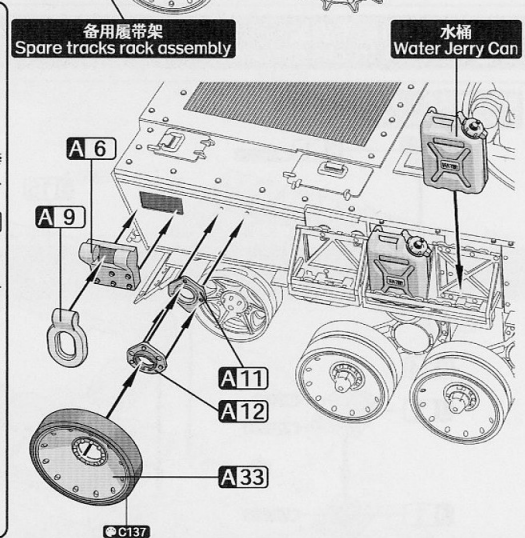
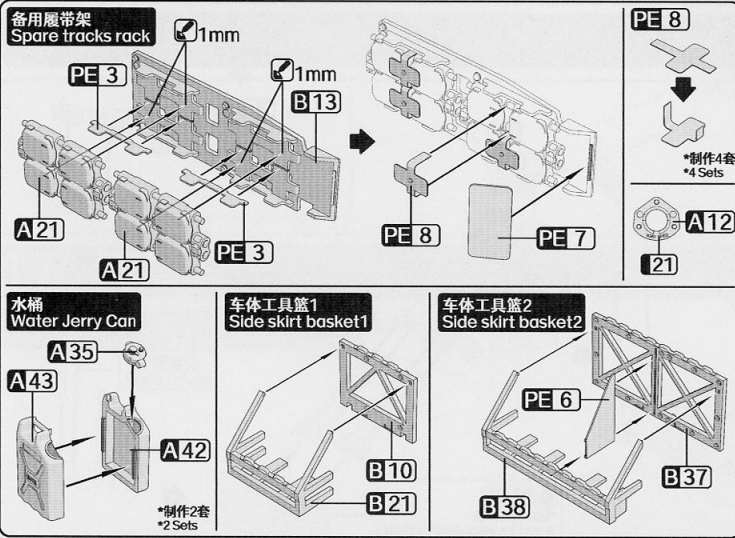
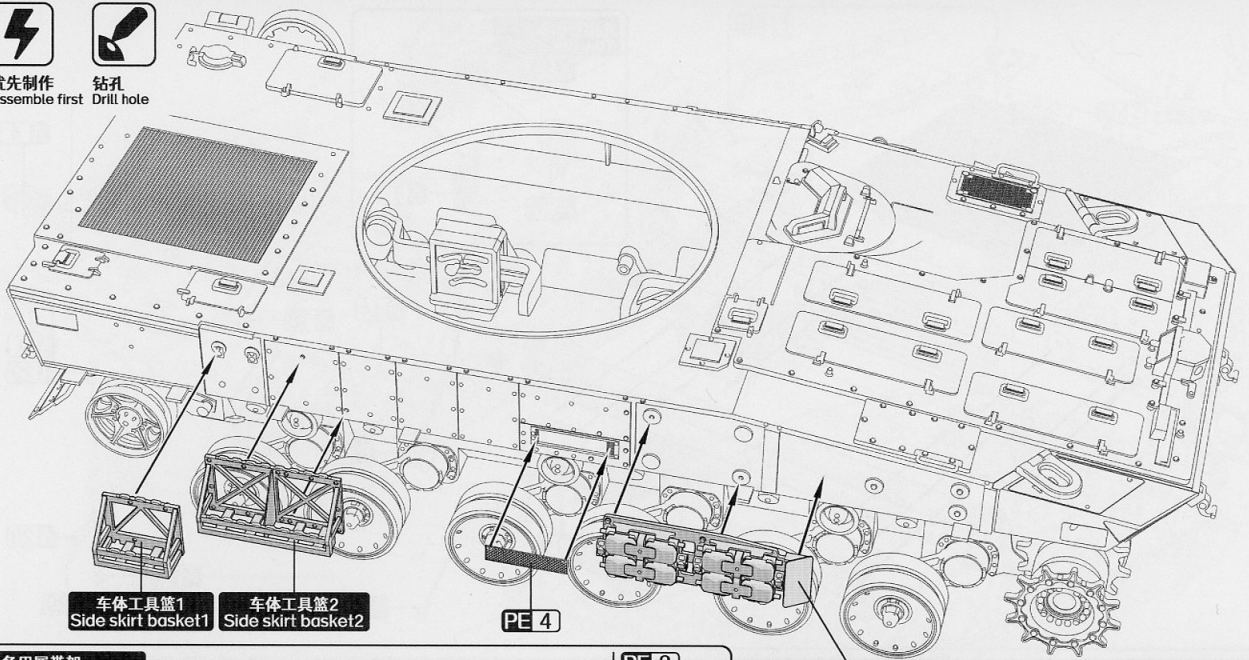
⚡
优先制作
Assemble first



12. 车体右侧附加工具安装 Hull right side tools assembly



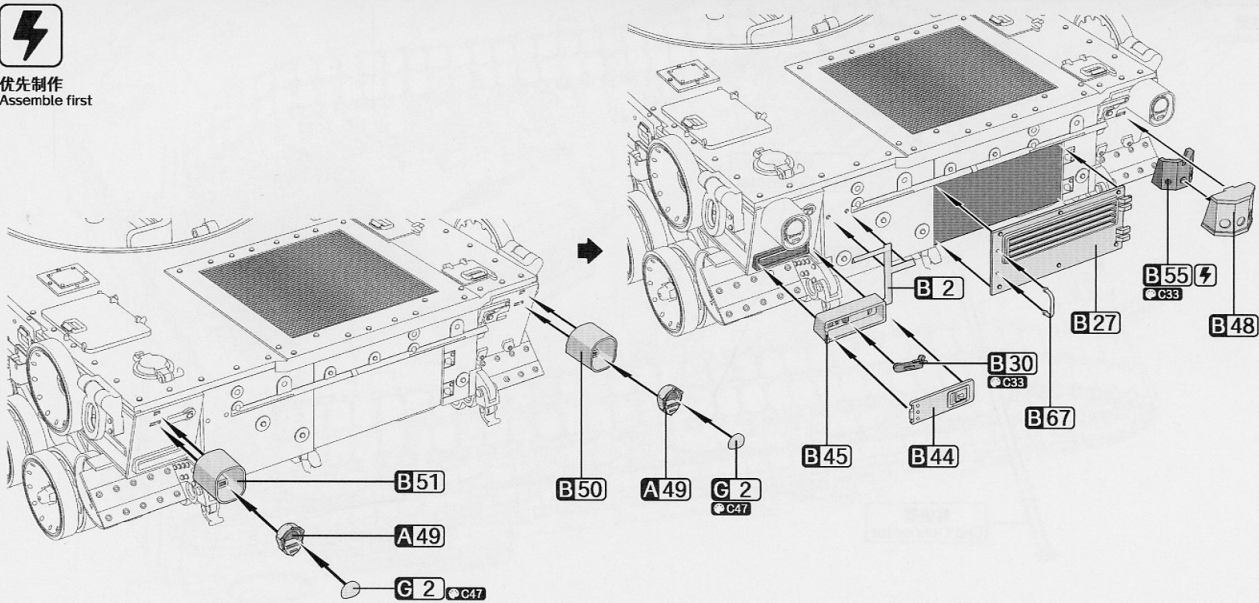
优先制作 Assemble first
钻孔 Drill hole



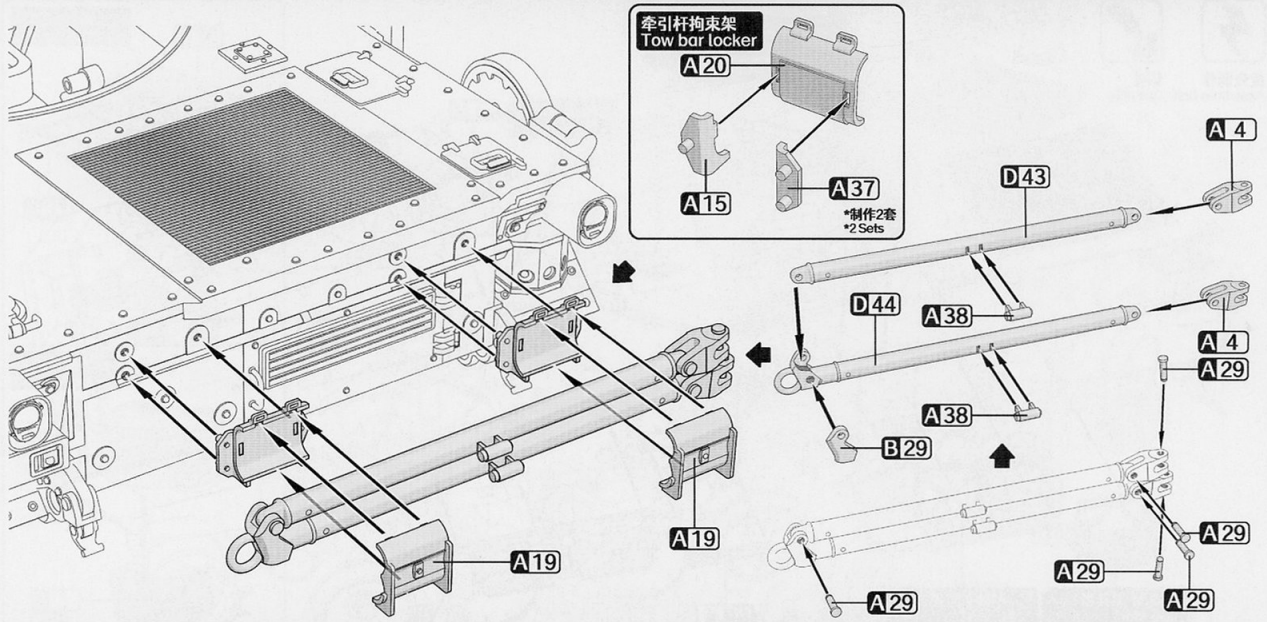
13. 车尾灯、车尾视觉增强装置安装 Tail lights and DVE(Rear) Wide assembly



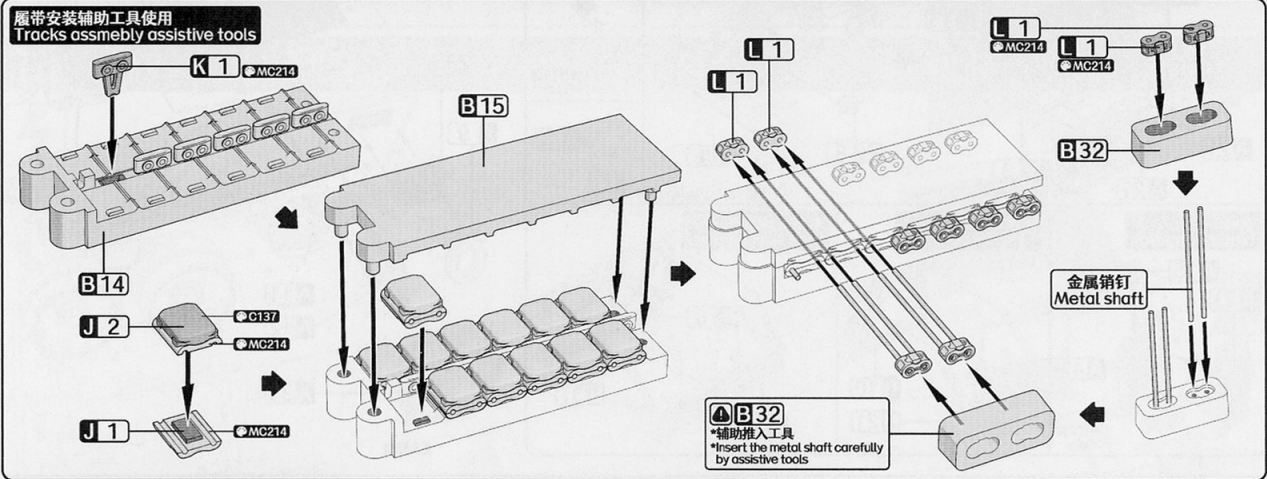
优先制作 Assemble first



14. 牵引杆拘束架安装 Tow bar locker assembly

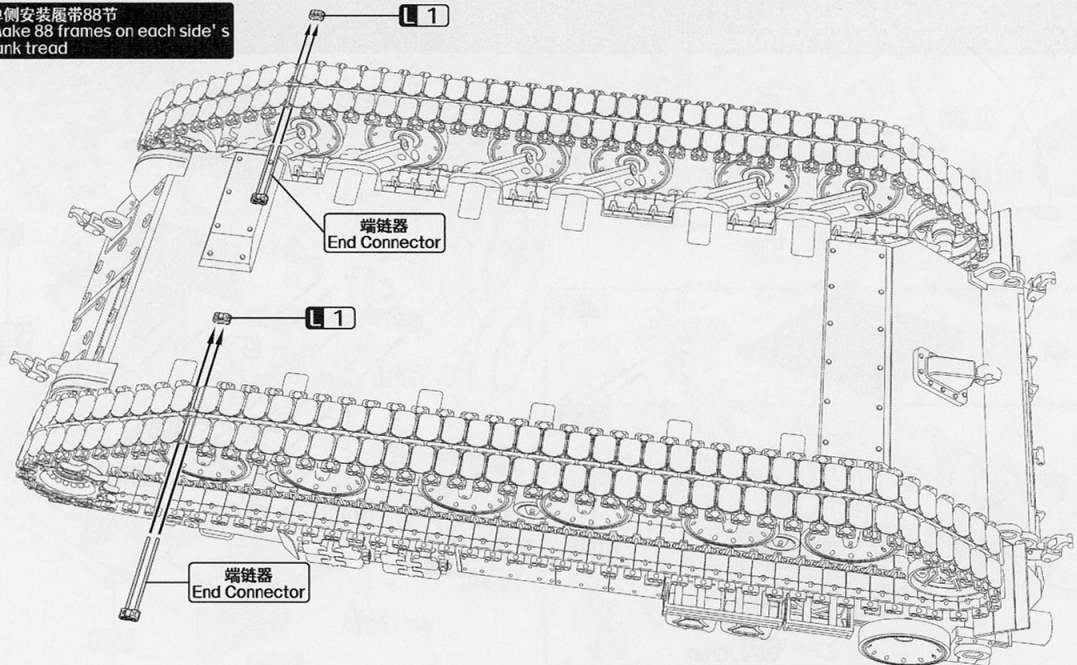


15. T161履带安装 T161 tracks assembly

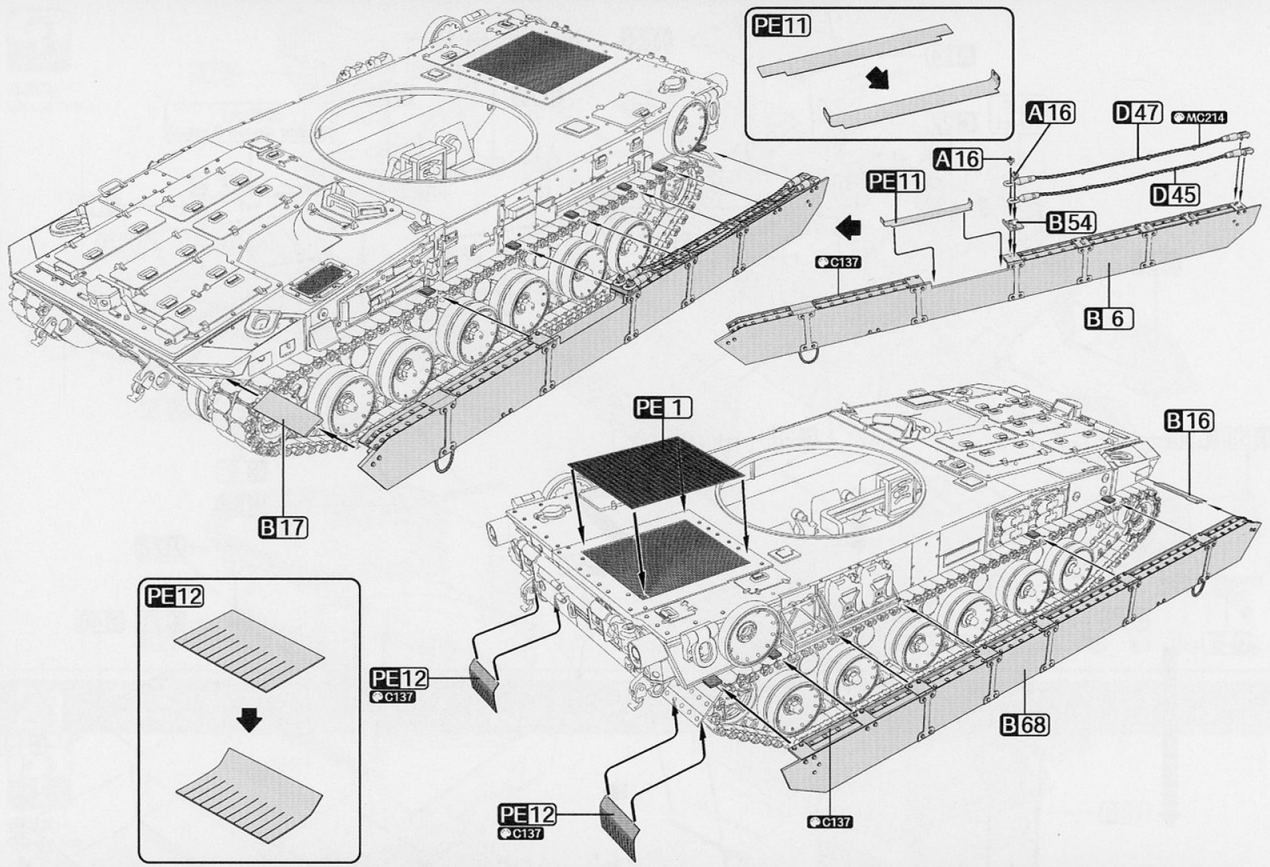


注意
Caution

单侧安装履带88节
Make 88 frames on each side's tank tread

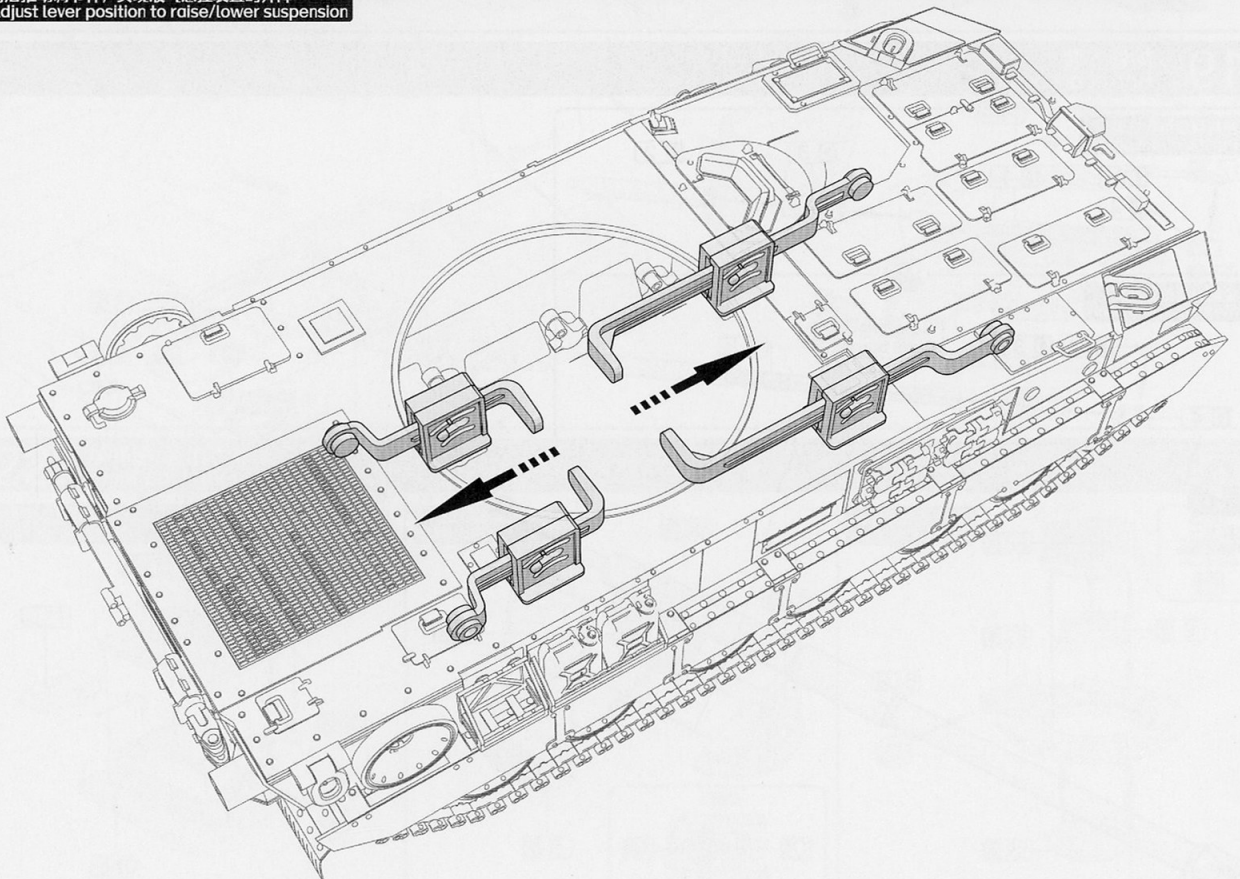


16. 裙板安装 Side skirt assembly

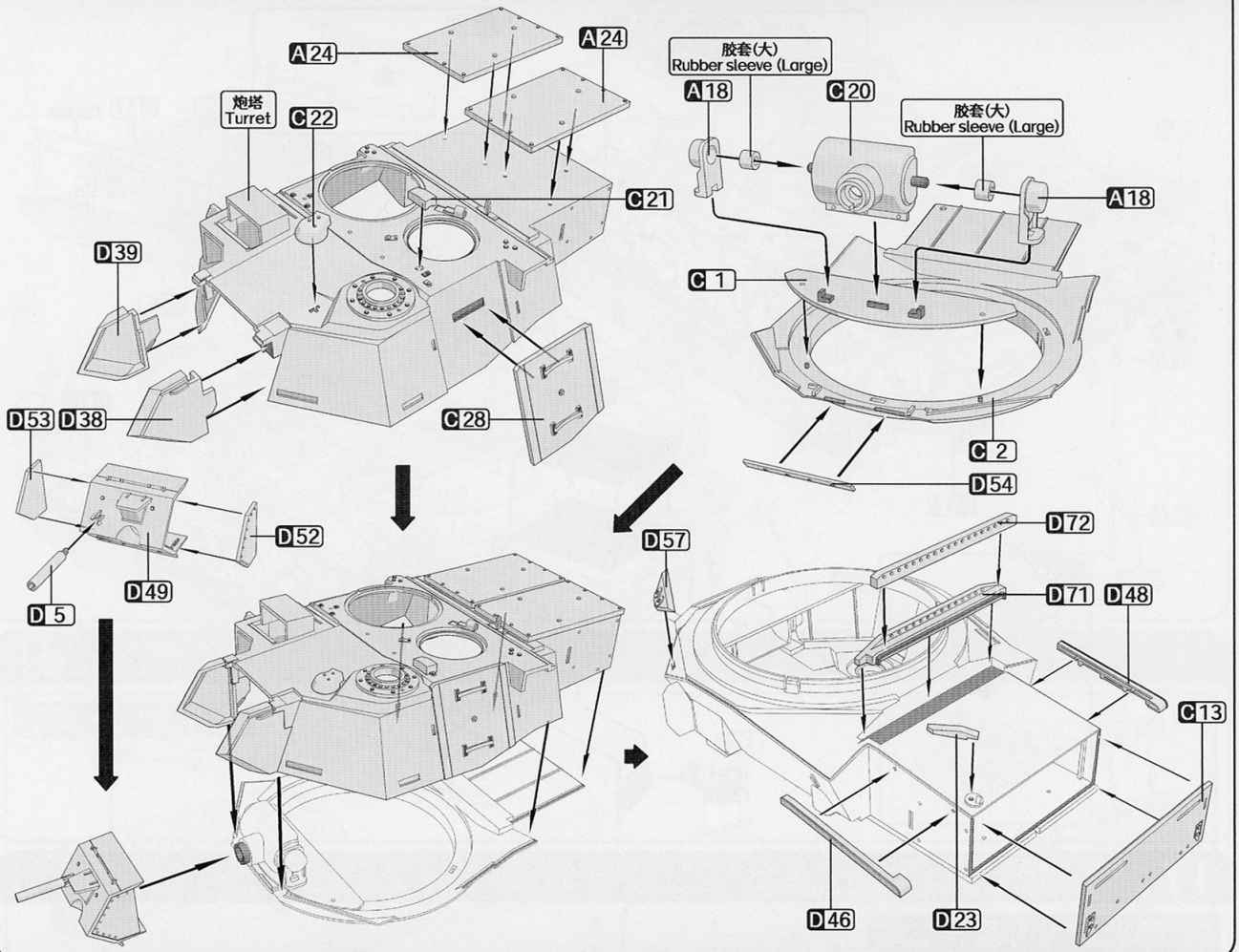


17. 悬挂活动调节示意 Suspension lever adjustment example

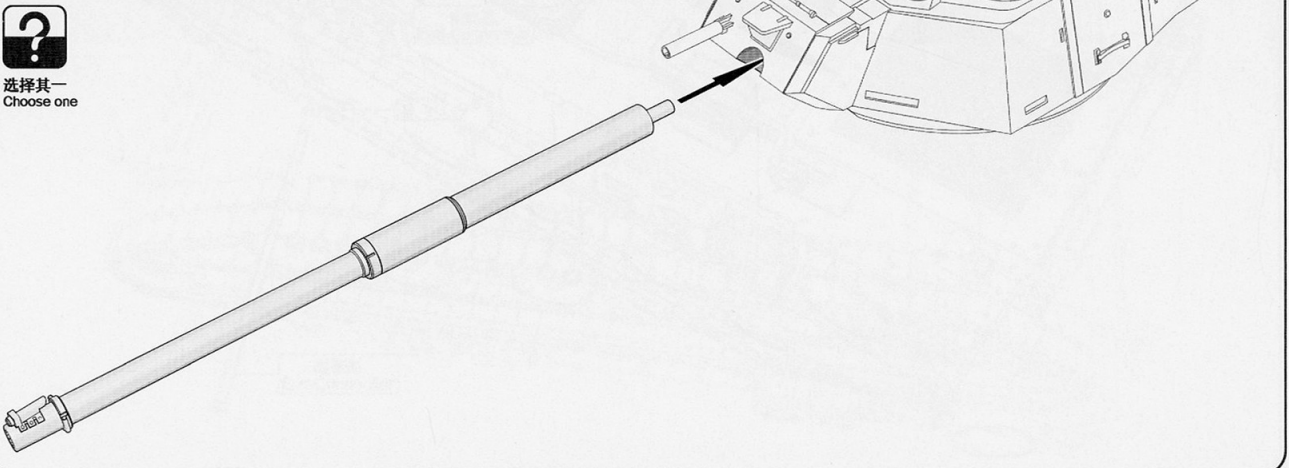
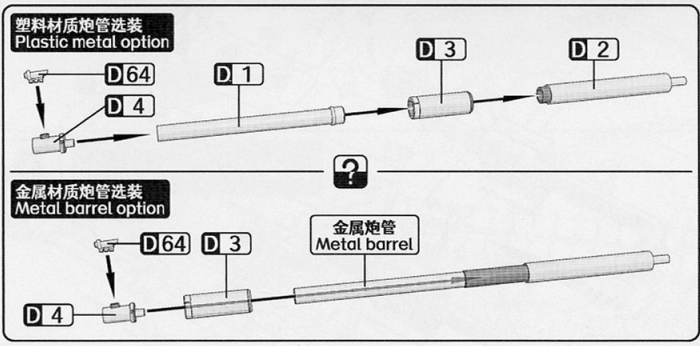
前后推动调节杆，实现液气悬挂装置的升降
Adjust lever position to raise/lower suspension



18. 炮塔安装 Turret assembly



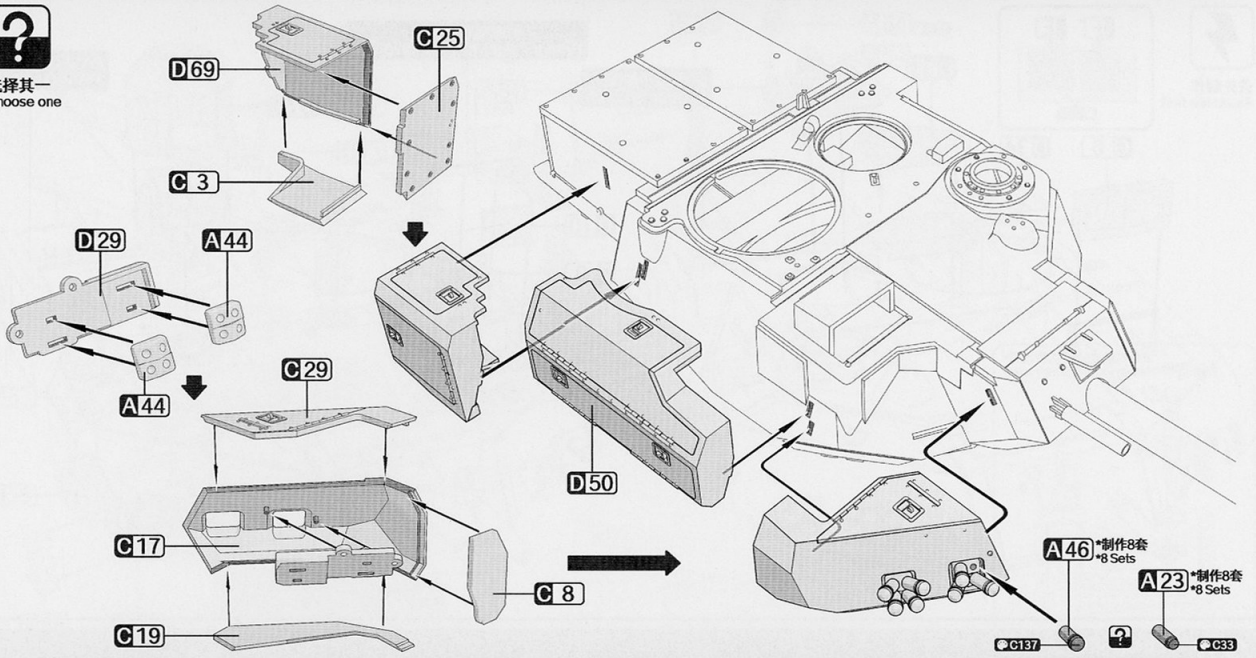
19. 炮管安装 Barrel assembly



20. 右侧装甲, 储物工具箱安装 Right side skirt and stowage box assembly



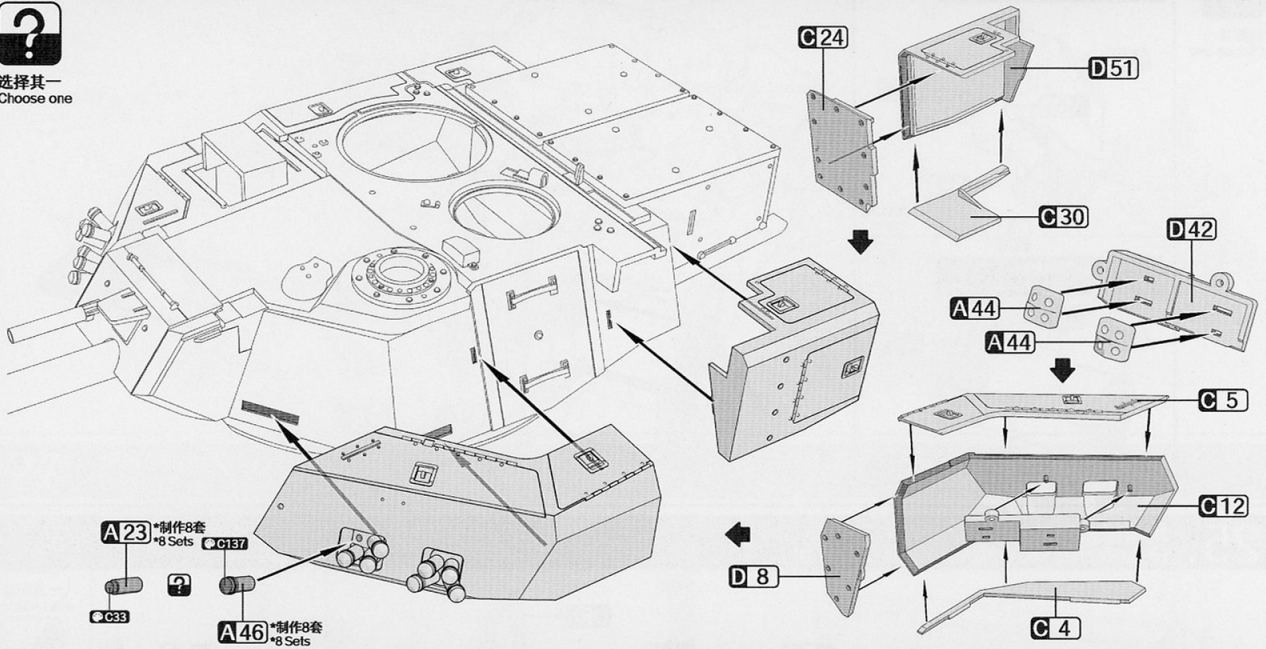
选择其一
Choose one



21. 左侧装甲, 储物工具箱安装 Left side skirt and stowage box assembly

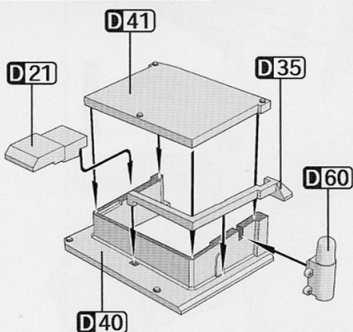


选择其一
Choose one

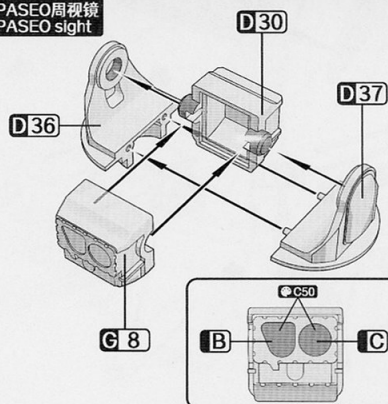


22. 观瞄镜, 装填手舱盖安装 Sight equipment, Loader's hatch assembly

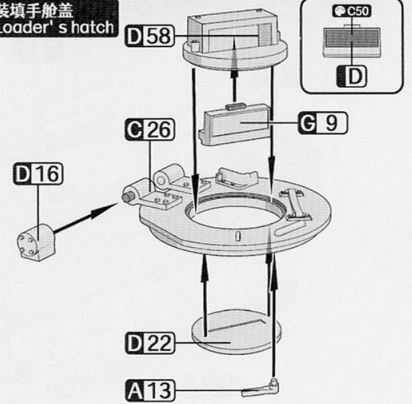
主观瞄装甲护板
Primary sight protection plate



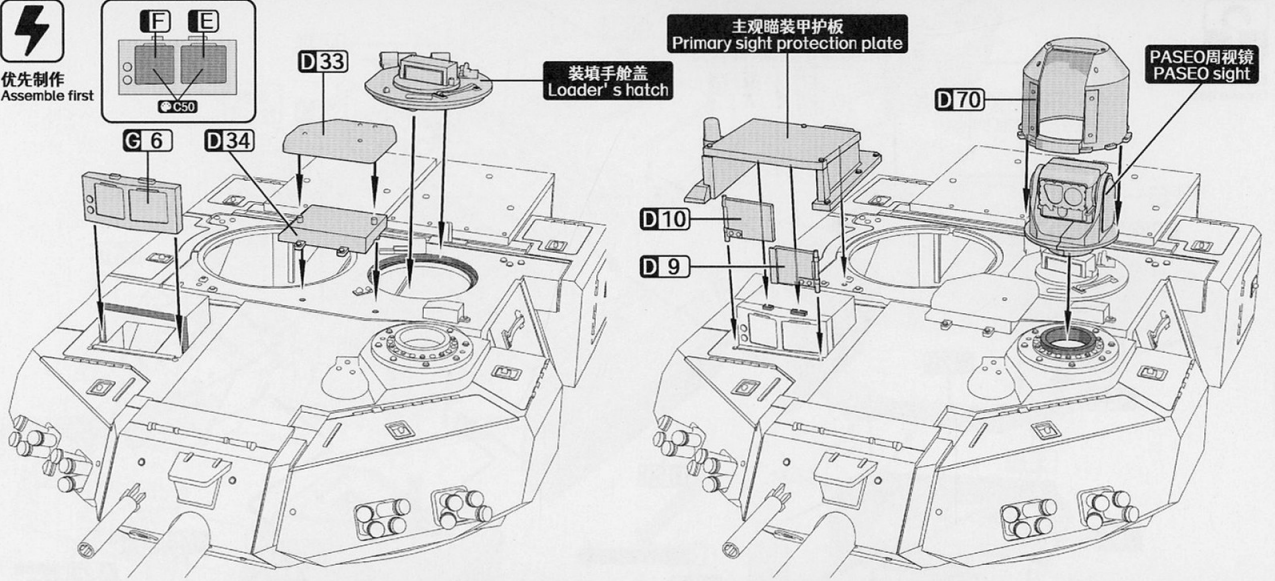
PASEO周视镜
PASEO sight



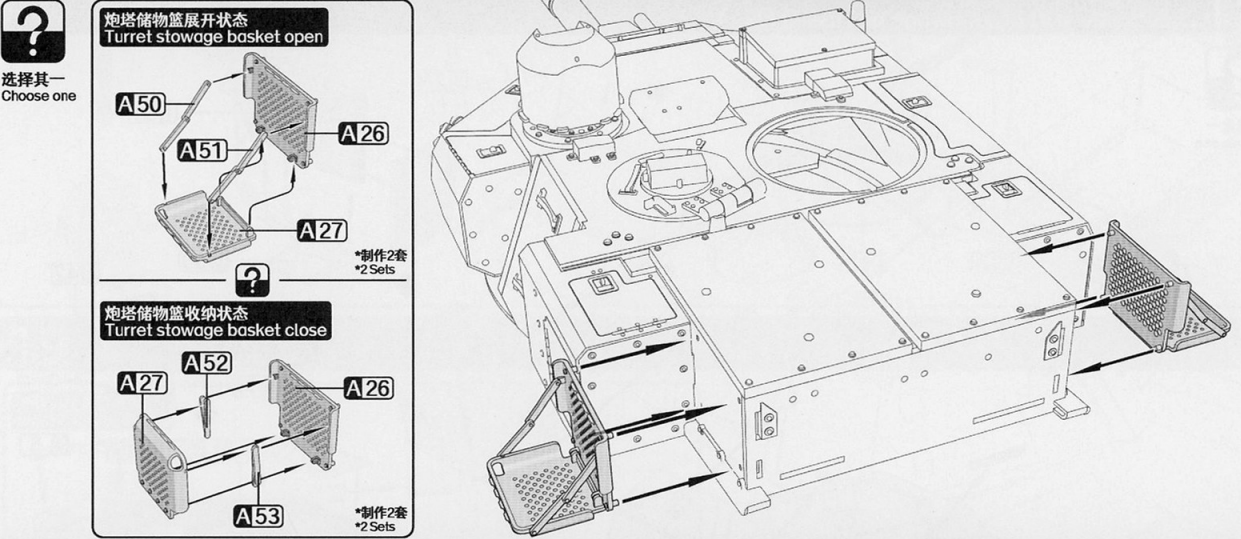
装填手舱盖
Loader's hatch



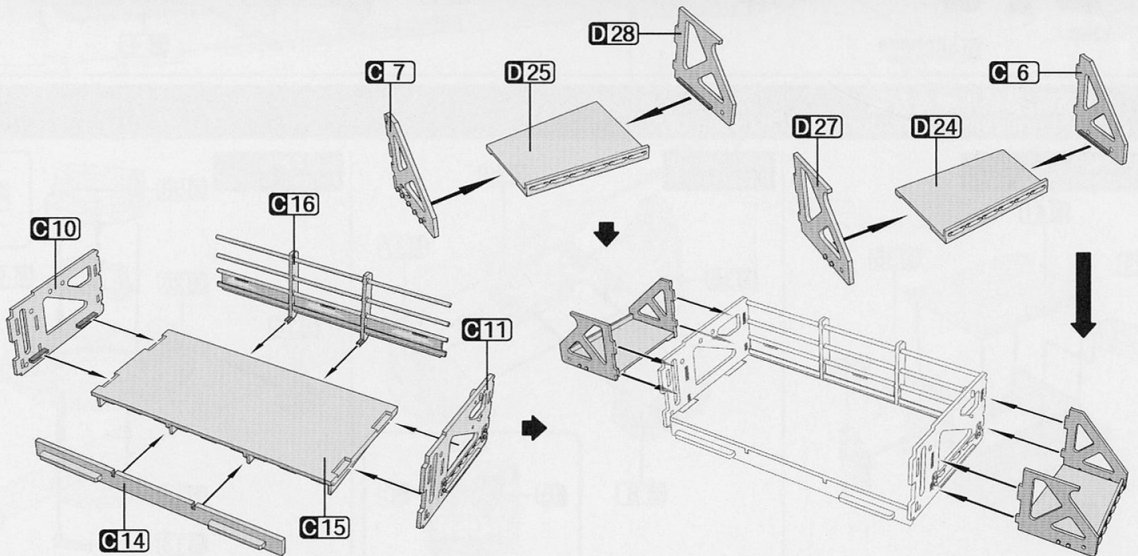
23. 主观瞄, 装填手舱盖组装 Primary sight, Loader's hatch assembly



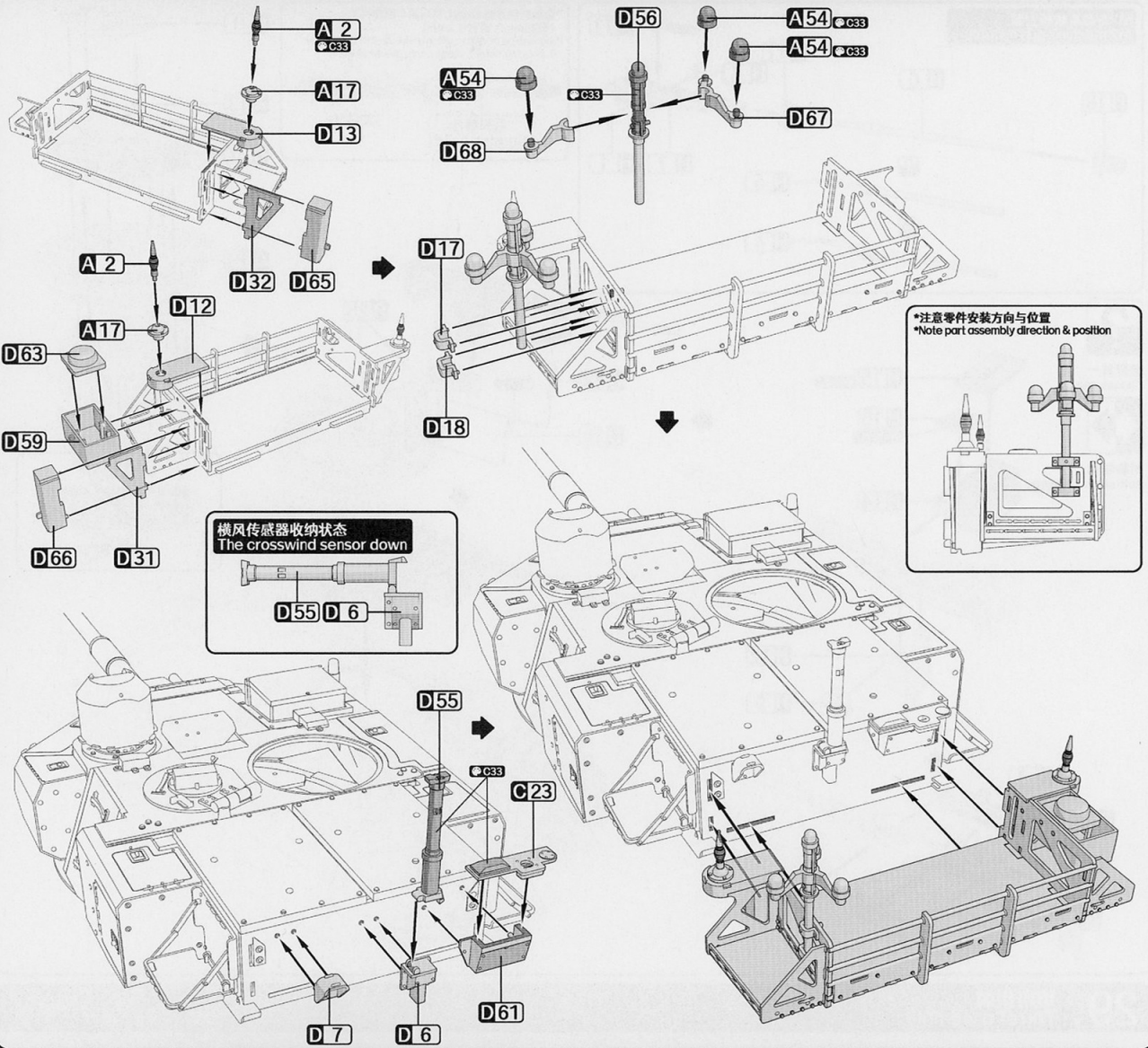
24. 炮塔储物篮组装 Turret storage basket assembly



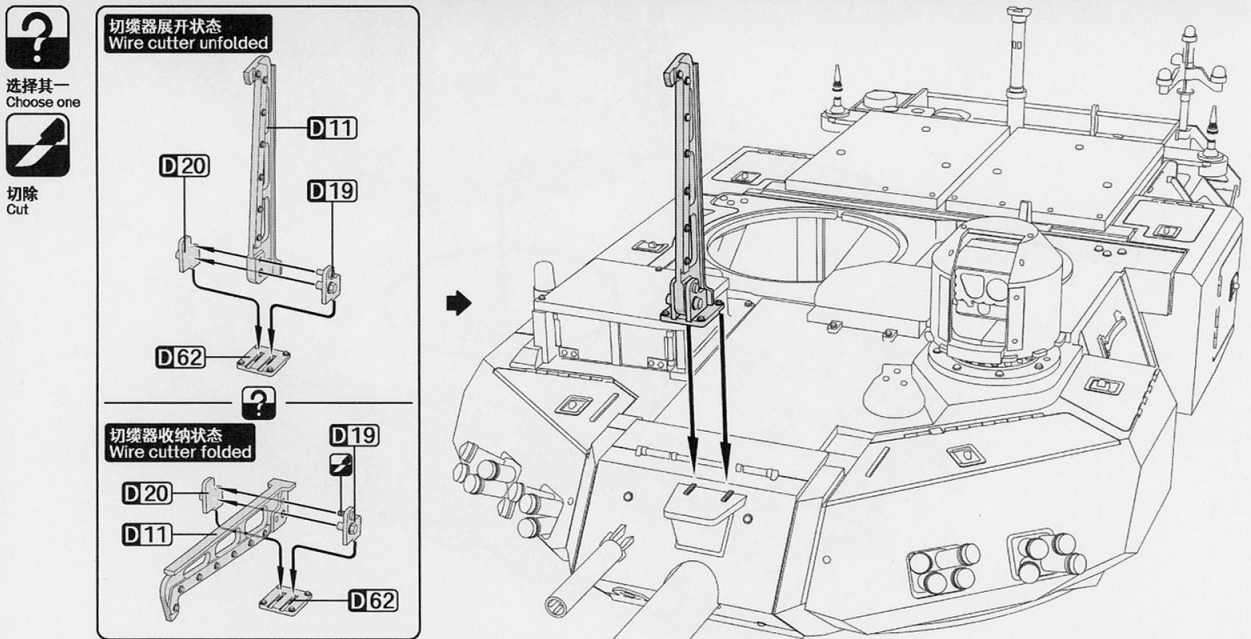
25. 炮塔尾篮组装 Rear turret storage basket assembly



26. 横风传感器, 声学探测仪, 蓝军跟踪系统装置安装 The crosswind sensor, PilarV system and BFT2 assembly

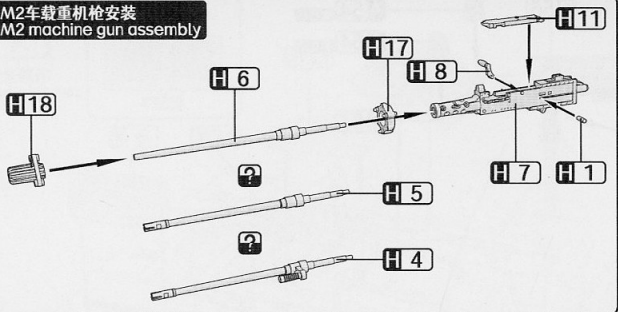


27. 炮塔切缆器安装 Wire cutter assembly



28. 车长指挥塔安装 ICWS assembly

M2车载重机枪安装 M2 machine gun assembly



*选装空包弹制退器时,需玩家自制零件X3
(长20mm X 直径0.3mm)
*Blank firing adaptor option need scratch build three
0.3mm Diameter x 20mm Long cylindrical part

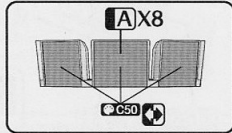
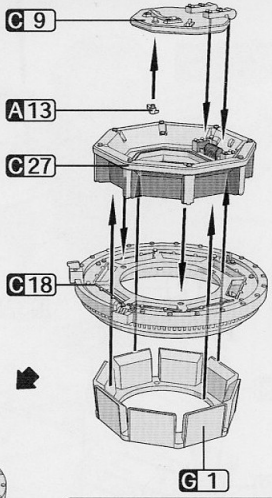
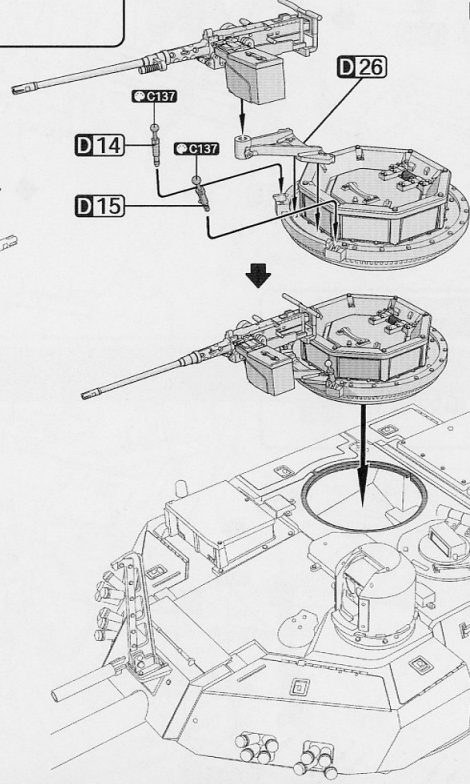
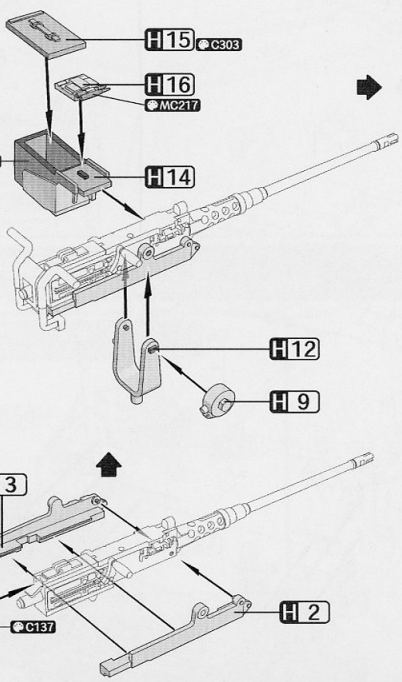
自制零件
Scratch build



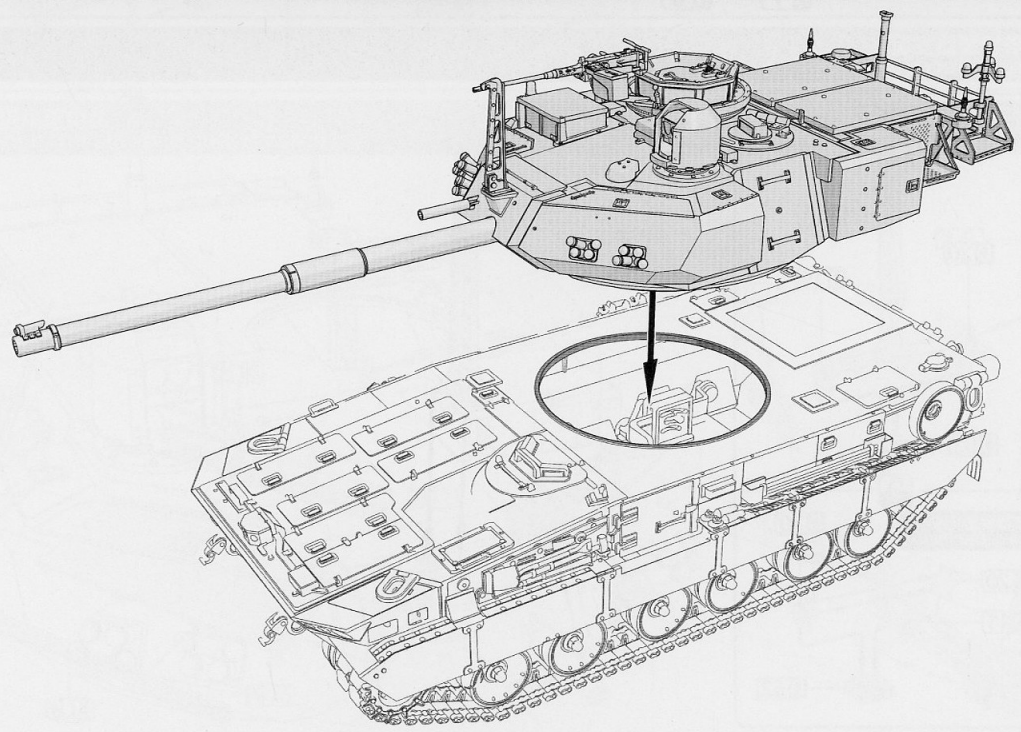
选择其一
Choose one

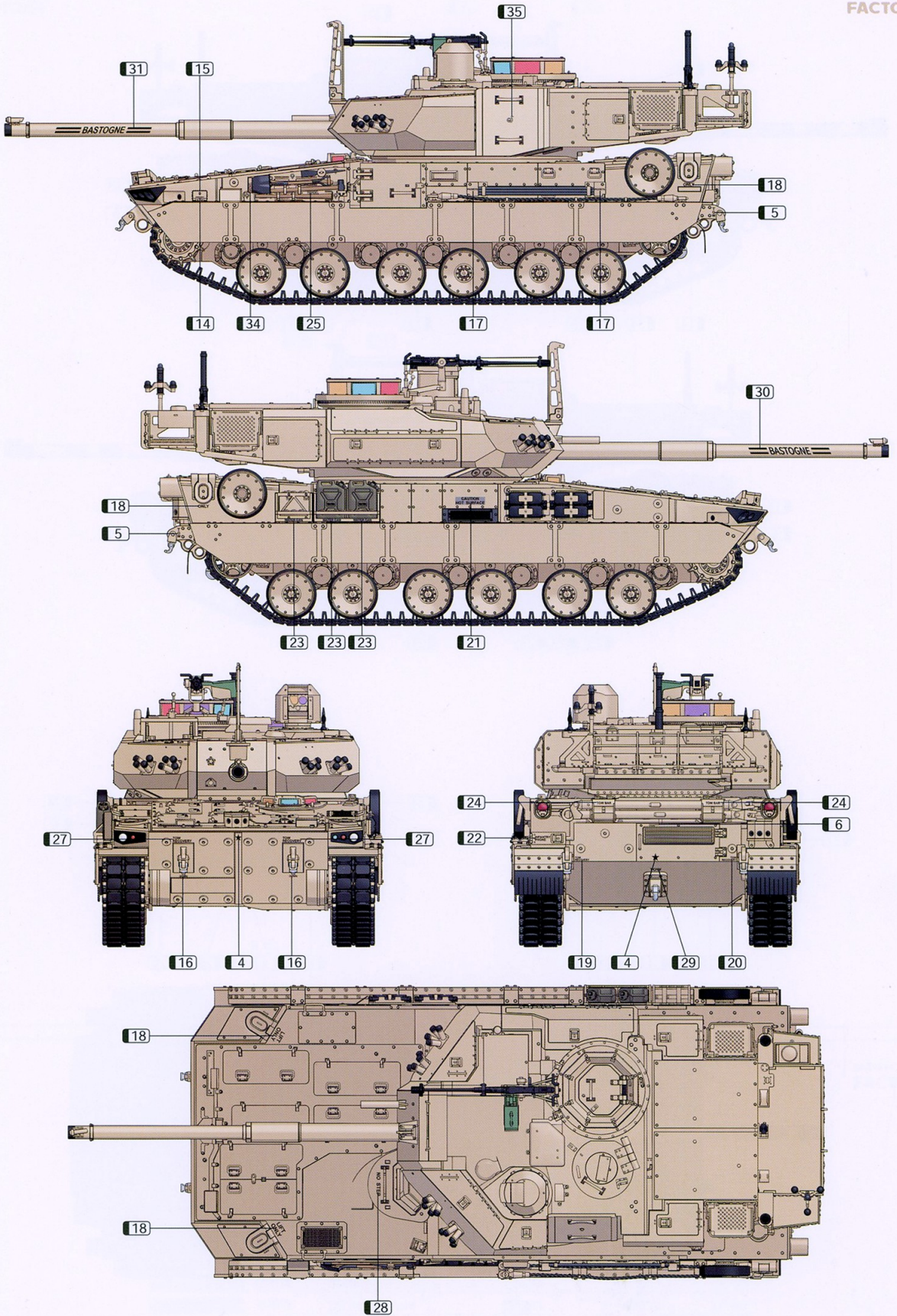


对称制作
Both sides

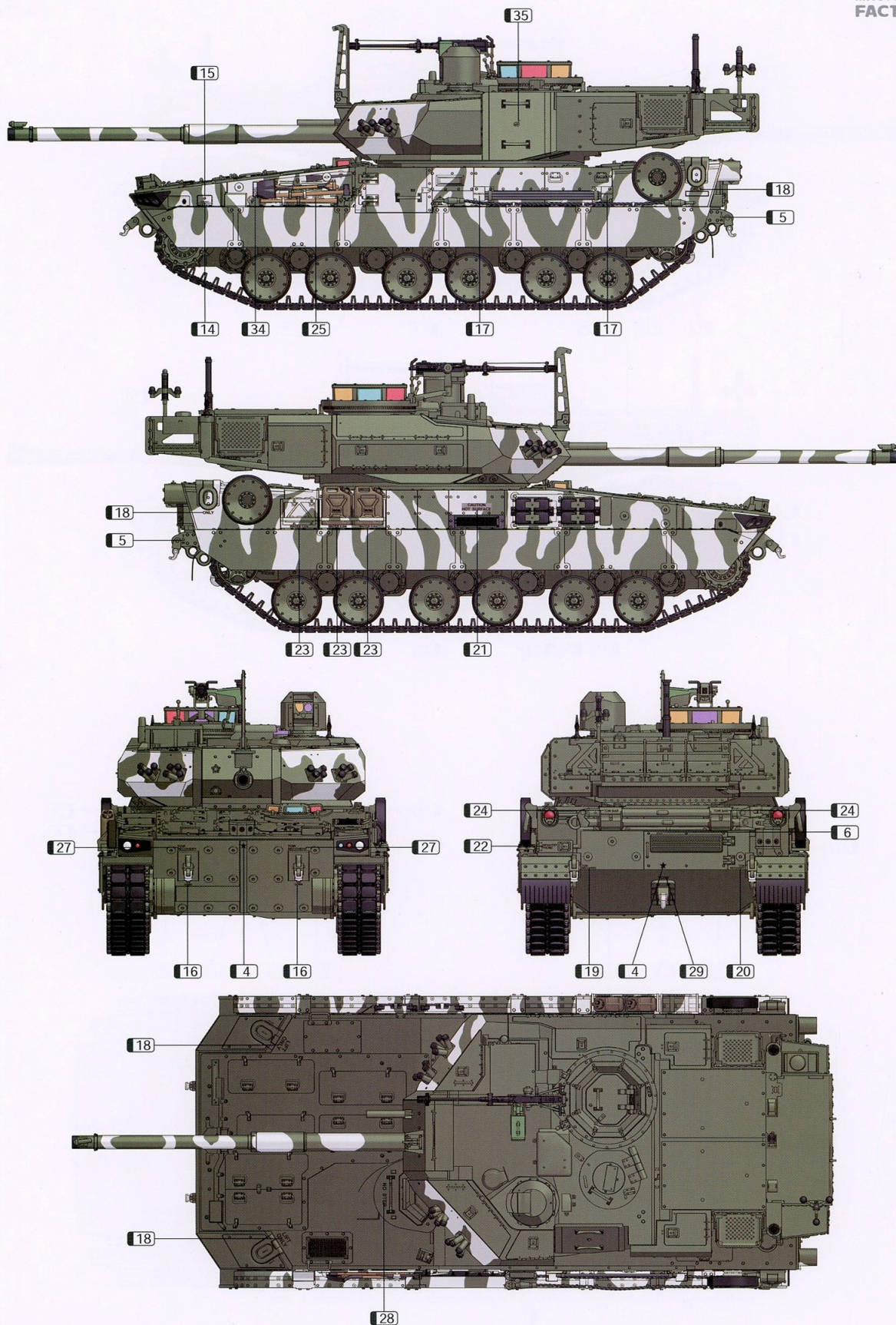


29. 炮塔组装 Turret assembly

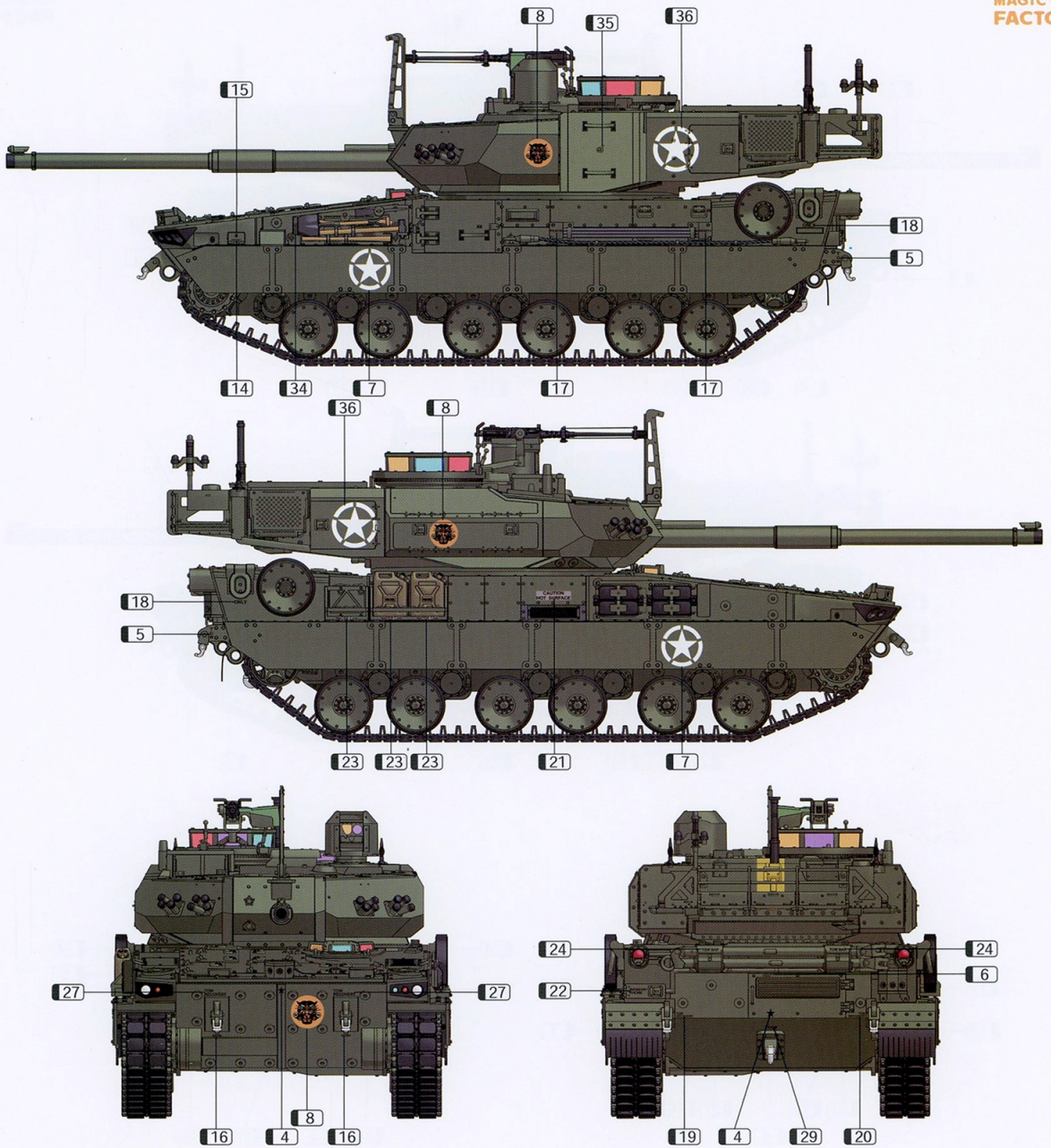




101空降师测试用沙色涂装样式
The testing desert camo scheme of the 101st Airborne



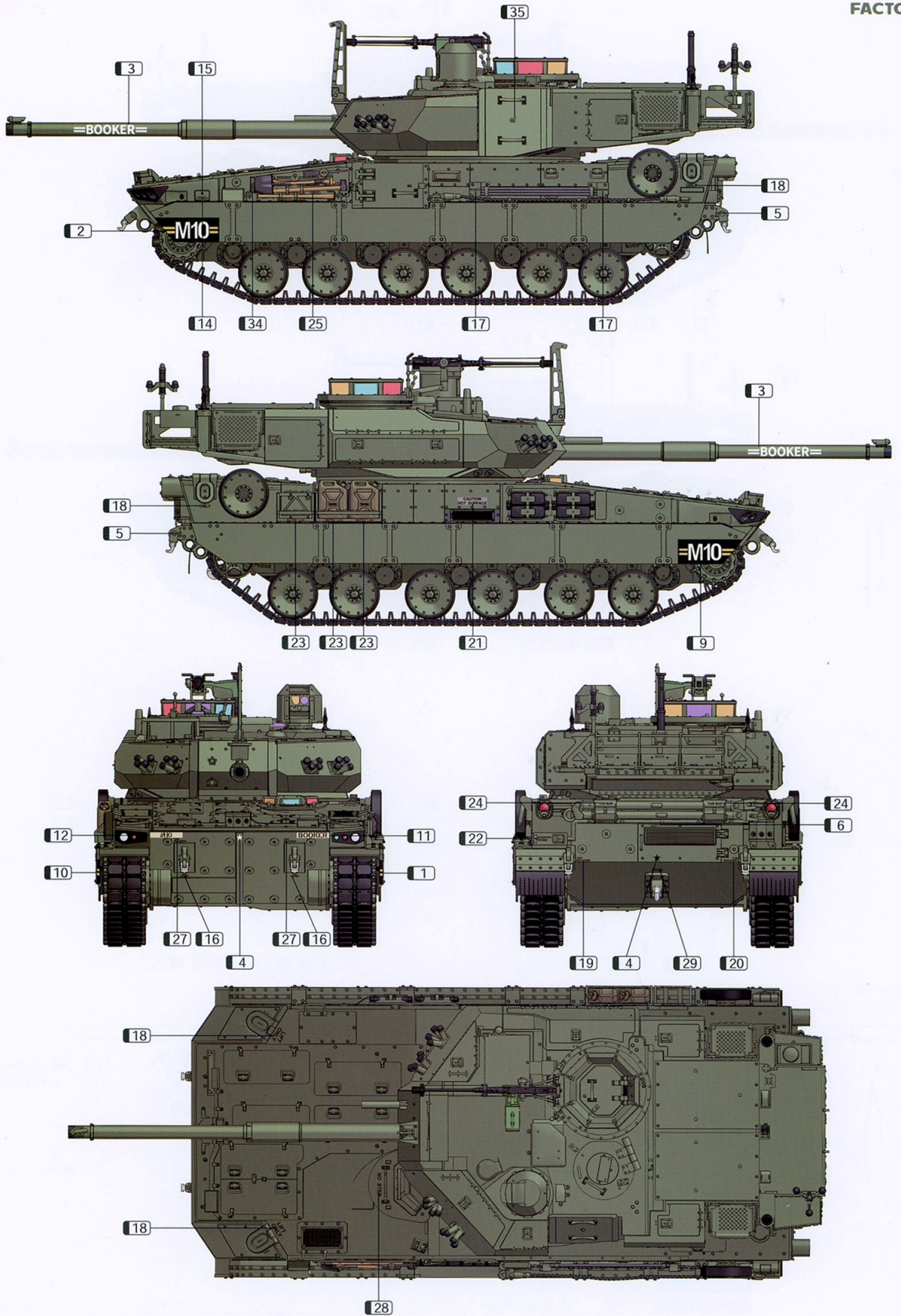
雪地迷彩架空涂装样式，德国
The "What if" winter camo scheme based on Hoefels, Germany



二战M10坦克歼击车“狼獾”涂装样式

The commemorative camo scheme of M10 tank destroyer "Wolverine" during World War II.

		AK	Mr.Color	TAMIYA
	亚光白 Flat White	RC004	C62	XF-2
	亚光黑 Flat Black	RC001	C33	XF-1
	橡胶黑 Tire Black	RC022	C137	XF-85
	金属银 Chrome Silver	—	MC211	X-11
	枪铁色 Gun Metal	RC015	MC214	X-10
	舱内绿色 Grey Green	RC078	C368	XF-76
	透明红 Clear Red	RC503	C47	X-27
	透明橙 Clear Orange	RC506	C49	X-26
	木棕色 Deck Tan	RC093	C19	XF-78
	透明蓝 Clear Blue	RC504	C50	X-23
	美军绿 US Army Green	RC083	C303	XF-67
	砂黄色 Military Tan	RC079	C44	XF-57
	金色 Gold	—	MC217	X-12



2023年美军陆军成立248周年纪念命名仪式（弗吉尼亚州）
The 248th U.S. Army Anniversary celebration, Virginia, June 14, 2023