

Hobart's Funnies Churchill Mk IV AVRE Snake



The raid on Dieppe, known as Operation Jubilee, was taken place in August 1942 .the aims were to seize and hold a major port for a short period and examine the German reaction. Strategically, this raid was also to mitigate the pressure suffered by the Soviet Army in the Eastern Front.

A force of over 6000 infantrymen, predominantly Canadian, with supports from large British naval and Allied air force contingents, participated in this raid. Among them the Canadian Calgary Regiment left UK with some 29 Churchill tanks, 27 made it ashore. Yet, without appropriate supports from engineer vehicles, those tanks were quickly straggled by obstacles on the beach, rendering insufficient fire support to the infantry troops. No major objectives of the raid were accomplished, Operation Jubilee ended up as a catastrophe.

The experience at Dieppe, however, did influence Allied preparations for the Second front: Operation Overload. To avoid troops and vehicles being trapped on the shore by enemy fire and fortified obstacles, Chief of the Imperial General Staff, Field Marshal Sir Alan Brooke, approved development on a variety of supportive engineer vehicles proposed by Major General Percy Hobart in March 1943. Those engineer vehicles aimed to clear minefield on the first wave, and provide suppressing fire while leading the troop through obstacles.

In order to neutralize defences such as ,mines , wires , bunkers , anti-tank barricades when landing on the beach. These missions were usually carried out by soldiers. Soldiers connected Bangalore Torpedoes , put them into enemy defense structure and detonated . This kind of missions mostly had to be carried out under enemy fire. Soldiers suffered from short advancing range and insufficient self-protection. The Lieutenant Colonel Willott of 42nd Assault Regiment RE under 79th Armored Division, he designed a new type of Bangalore Torpedoes. It was 3 inches calibers and length of 20 feet. It was installed on Churchill AVRE tanks. This mine clearing vehicles can cross and clear minefield for hundreds of yards. This design was also used on Churchill 3 inch gun carriers. Its nickname was "Snake" . Its first combat was on 10th of September in 1944 when Allied force Landed Le Havre port located in the mouth of Seine that was still under German control.

1942年8月、ジュビリー作戦として知られるディエップ上陸作戦が実施された。その目的は、短期間に主要な港を制圧することとドイツ軍の反撃力を試すことにあったが、戦略的には、第二戦線を形成することによって、東部戦線で激しい戦闘を行っているソ連軍を援護するというねらいがあった。イギリス海軍と連合軍航空機の援護を受けた、カナダ軍兵士を主力とする6000名以上の歩兵が作戦に参加した。カナダ・カルガリー連隊は29輦のチャーチル戦車とともにイギリスを出撃し、27輦が海岸に上陸した。しかし、これらのチャーチル戦車は、工兵車輛による効果的な支援が受けられなかったために、たちまち海岸の障害物に阻まれ、歩兵を満足に援護することもできなかった。目標であった要地の制圧も成し得ず、ジュビリー作戦は惨憺たる結果に終わったのである。

しかしながらディエップでの苦い教訓は、次のオーバーロード作戦の準備に多大な影響を及ぼすこととなった。上陸した海岸で、敵の砲火や堅固な障害物によって兵士や車輛が身動き出来なくなるような事態を防ぐため、英陸軍参謀総長アラン・ブルック元帥は、1943年3月、パーシー・ホバート少将より提案された、各種支援用工兵戦闘車輛の開発計画を承認した。これらの工兵戦闘車輛は、地雷除去や部隊の障害物突破の際の先導・火力支援等が任務であった。

上陸作戦時、地雷・鉄条網・掩蔽壕・対戦車バリケードなどの障害物の排除作業は、生身の兵士によって行われていた。爆破筒を携えた兵士が敵の防御線に侵入し爆破したのである。こういった作業は敵の銃火の下で行われるため、前進距離は当然短く、無防備な状態でさらされる非常に危険なものであった。この問題に対し、第79機甲師団隷下工兵第42突撃連隊ウィロット中佐が新型の爆破筒を開発する。3インチ口径で20フィートの長さのそれは、チャーチル工兵戦闘車（AVRE）に搭載され、数百ヤードにわたって地雷原を排除することができた。このほか新型爆破筒は、チャーチル3インチガンキャリアーの車体にも搭載され、"スネーク"の愛称がつけられたのだった。1944年9月10日、セーヌ川河口に位置するル・アーブル港の奪還作戦に始めて投入され、ドイツ軍の設置した地雷原の除去に活躍したのであった。

1942年8月，為了緩解德蘇戰線上蘇聯所面臨的嚴峻壓力，以加拿大陸軍為主的地面部隊，配合著皇家海空軍，在法國臨近英吉利海峽的海港第厄普進行了一次試探性的登陸，由於行動的作為在一開始就是被設定是“局部”的，因此參與的登陸部隊規模尚不及萬人，其中包括了一支由29輛邱吉爾步兵戰車所組成的卡爾加里戰車團，在沒有工兵車輛的支援下，這二十幾輛戰車在登陸後很快的便受困於海岸上各種障礙物間，使得進入第厄普市鎮的步兵部隊無法獲得足夠的地面火力支援，在作戰目標無法達成的情況下，這次作戰行動一如預料的以失敗告終。

這次失敗的登陸行動為爾後的開闢第二戰場的行動取得了許多寶貴的經驗，為避免登陸部隊一上岸便被障礙物及火網困在灘頭之上，1943年3月英國參謀總長批准了陸軍少將霍巴特的建議，計畫研製各式特種工兵支援車輛，以俾使在登陸之時能率先清除雷區，帶領部隊通過障礙物並適時壓制德軍火力，邱吉爾步兵戰車由於其厚重的裝甲，被挑選為這些特種車輛共通的載台。

為了在登陸的沙灘上排除地雷、鐵絲網，或是摧毀碉堡、反戰車樁等防禦工事。過去是由單兵攜帶爆破筒，將其串聯後伸入敵方工事之中引爆。由於是在敵火覆蓋下工作，人員的推進距離短，自身安全也備受威脅。由79裝甲師轄下第42突擊團的威洛特中校設計，將口徑3英吋，20英尺長的爆破筒安裝於邱吉爾AVRE戰車之上，這樣的排雷車能夠穿越並清掃長達百碼的雷區，類似的設計也被轉用在邱吉爾3吋砲載臺之上。被暱稱為“蛇”的這款排雷車初次參與作戰是在1944年9月10日，登陸位於塞納河口仍在德軍控制下的勒哈佛爾港。

Illustration:圖示說明



Method For Applying Decals:

1. Clean Model Surface With Wet Cloth.
2. Cut Out Of Decal Sheet And Dip Them In Warm Water For 15 Seconds.
3. Place it on proper position on model.
4. Slide off base paper leaving decals On Model With Wet Finger Tip.
5. Move Decals To Exact Position, Push Out Excess Water Under Decal With Soft Cotton Cloth.
6. When Decals Get Dry Then Complete.

水貼紙使用說明:

- 1.將模型表面擦乾淨
- 2.將貼紙剪下泡入溫水中浸泡約15秒
- 3.將泡濕之貼紙取出置於欲貼處旁
- 4.用指尖輕推貼紙表面使其滑出底紙
- 5.將貼紙調整至適當位置並輕擦拭水份
- 6.待其自然乾燥後即完成

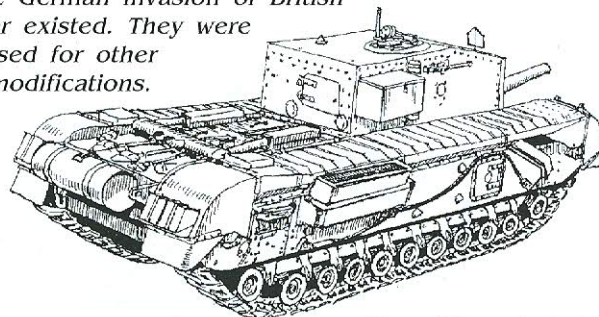
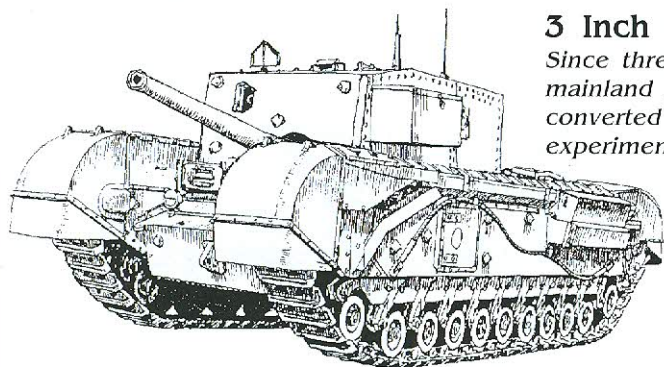
Color list: 塗料表

Color	Brand	Gunze Sangyo			Humbrol	Revell	Lifecolor
		Hobby Color	Mr.Color	Mr.Color Spray			
Brass	黃銅	H9	C9	J9	54	92	LC75
Flat white	消光白	H11	C62	J62	34	05	LC01
Dark green	深綠	H36	C15	J15	75		UA121
Olive drab(2)	橄欖綠	H78	C38	J38	66	46	UA106
Red	紅	H3	C3	J3	19	31	LC56
Red brown	紅褐	H47	C41	J41	160	383	
Sandy Yellow	沙黃	H66	C119		168		UA020
Steel	黑鐵	H18	C28	J28	53	91	LC76
Tire black	輪胎黑	H77	C33+C62		85	302	LC02
Wood brown	木棕	H37	C43		169		FS12

Special Variants of Churchill Tanks

3 Inch Gun carrier Mk I

Since threat of the German invasion of British mainland no longer existed. They were converted to be used for other experiments and modifications.

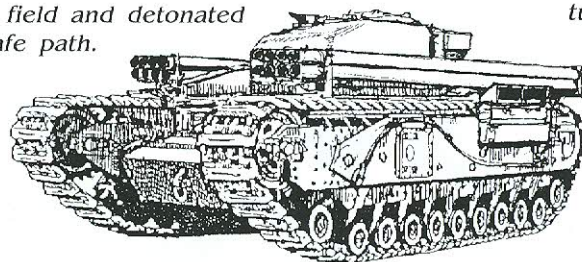
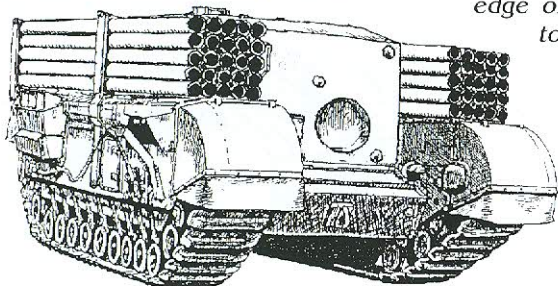


A Conversion of 3 Inch Gun carrier with 50 Snake explosive tubes.

Churchill Snake

Churchill Snake carried explosive tubes which were delivered to the edge of the mine field and detonated to clear a safe path.

A Churchill snake Mk I which was a Churchill tank modified with 16 Snake tubes.

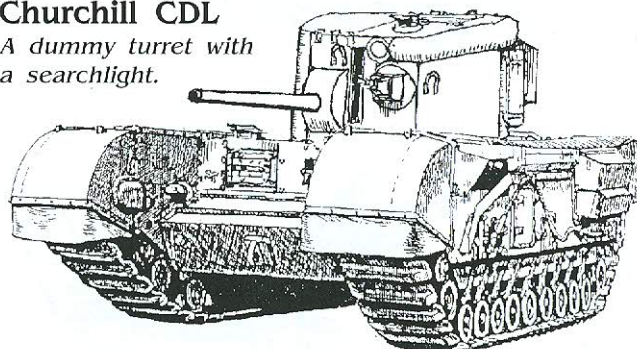
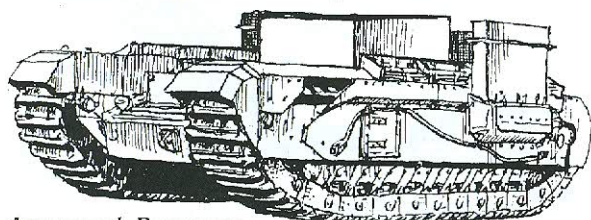


Churchill BARV

Beach Armoured Recovery vehicle.

Churchill CDL

A dummy turret with a searchlight.



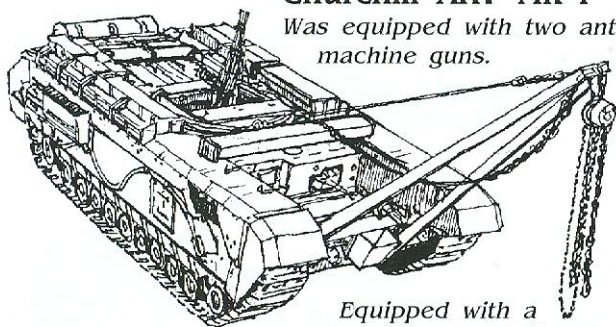
Armoured Recovery Vehicle used in coastal area.

Churchill ARV Mk I

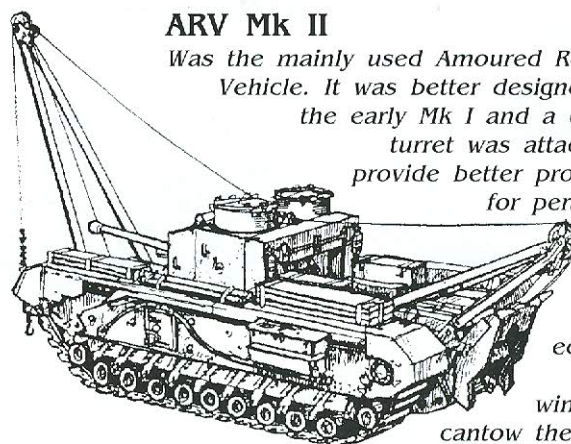
Was equipped with two anti-air machine guns.

ARV Mk II

Was the mainly used Amoured Recovery Vehicle. It was better designed than the early Mk I and a dummy turret was attached to provide better protection for personnel.



Equipped with a jib crane called "A frame".

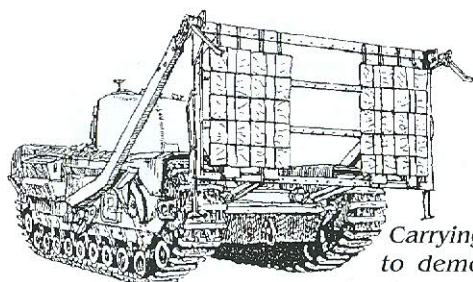


It was equipped with a winch that cantow the weight about 25 tons with an anchor and a jib arm.

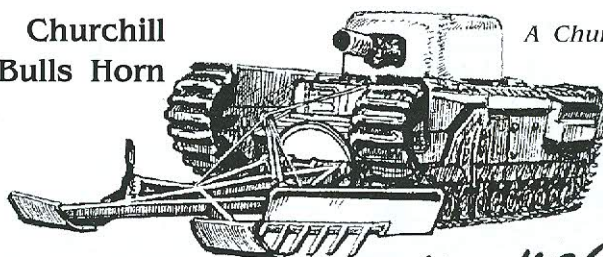
Churchill Onion explosive carrier

Churchill Bulls Horn

A Churchill AVRE equipped with a mine clearing plough.



Carrying Explosives to demolish coastal bunkers and obstacles.



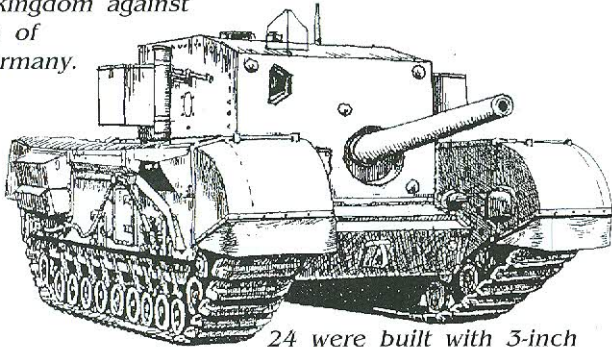
Shin.ueda
上田 信

Variants of Infantry Tank "Churchill"

Shin.ueda
上田 信

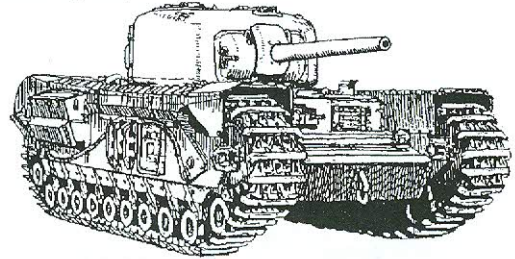
3 inch gun carrier Mk.I

It was built to defend mainland United Kingdom against invasion of Nazi Germany.



24 were built with 3-inch anti-aircraft gun Mk.III.

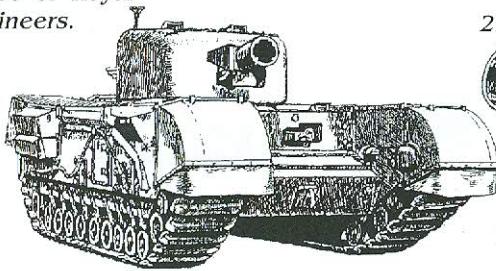
Churchill Mk.IV(NA)



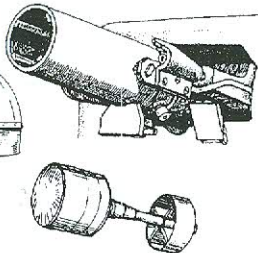
Retrofitted with 75 mm tank gun of M4 Sherman tank to provide better fire power. 120 were modified in maintenance facilities located in North Africa. Used in Italian Campaign.

Churchill AVRE

Armored vehicle used by the Corps of Royal Engineers.

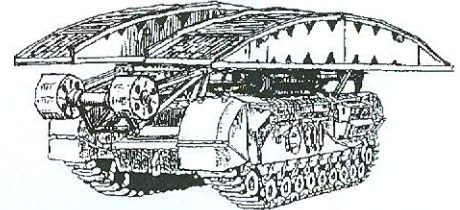


290 mm Petard Mortar



18 kg mortar rounds was used to demolish structures.

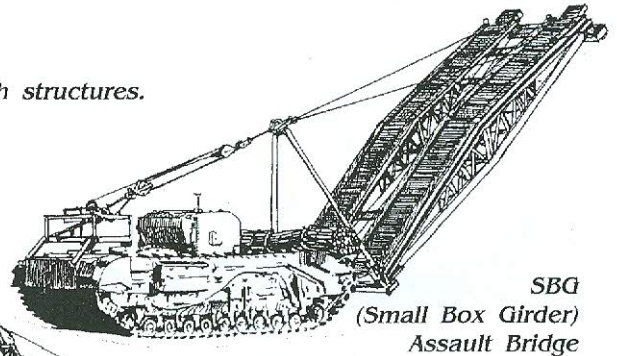
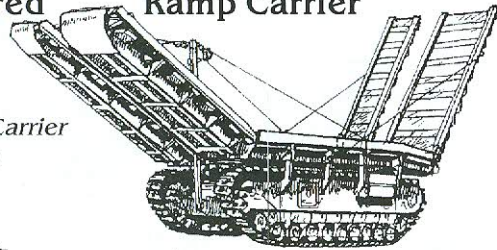
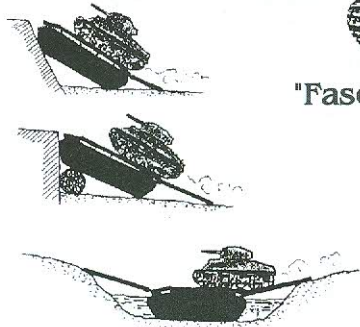
Bridge Layer Tank



Mounted with 30 ft Tank Bridge No.2.

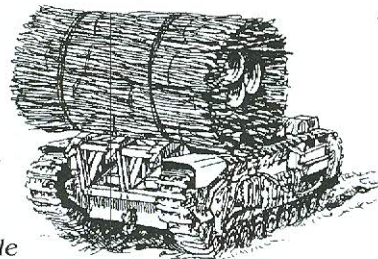
"ARK" Armored Ramp Carrier

"ARK" Ramp Carrier Usage Examples



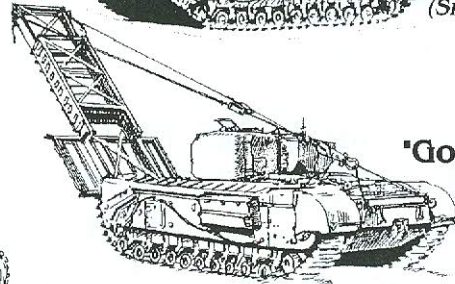
SBG (Small Box Girder) Assault Bridge

"Fascine"

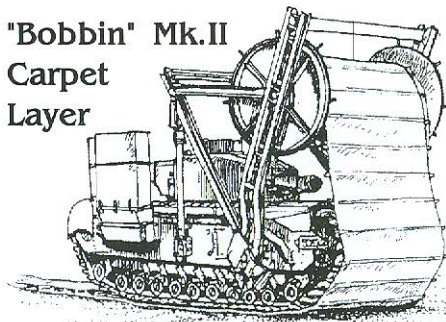


A bundle of wooden poles or rough brushwood tied together with wires was released to fill a ditch or form a step.

"Goat" Demolition Charge Layer

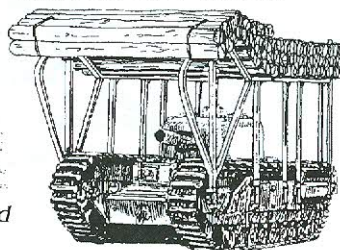


"Bobbin" Mk.II Carpet Layer

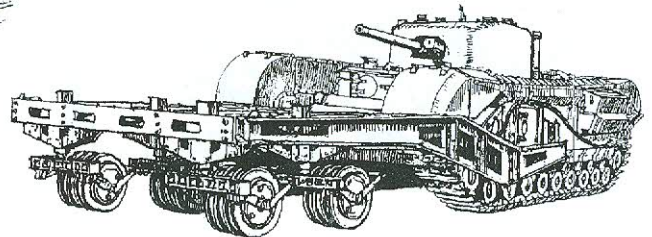


Canvas carpet was laid on soft ground to create a path for vehicles.

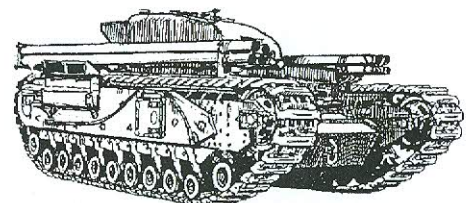
Log Carpet Layer (Wooden Pole Carpet)



AMRCR Mine-clearing Roller

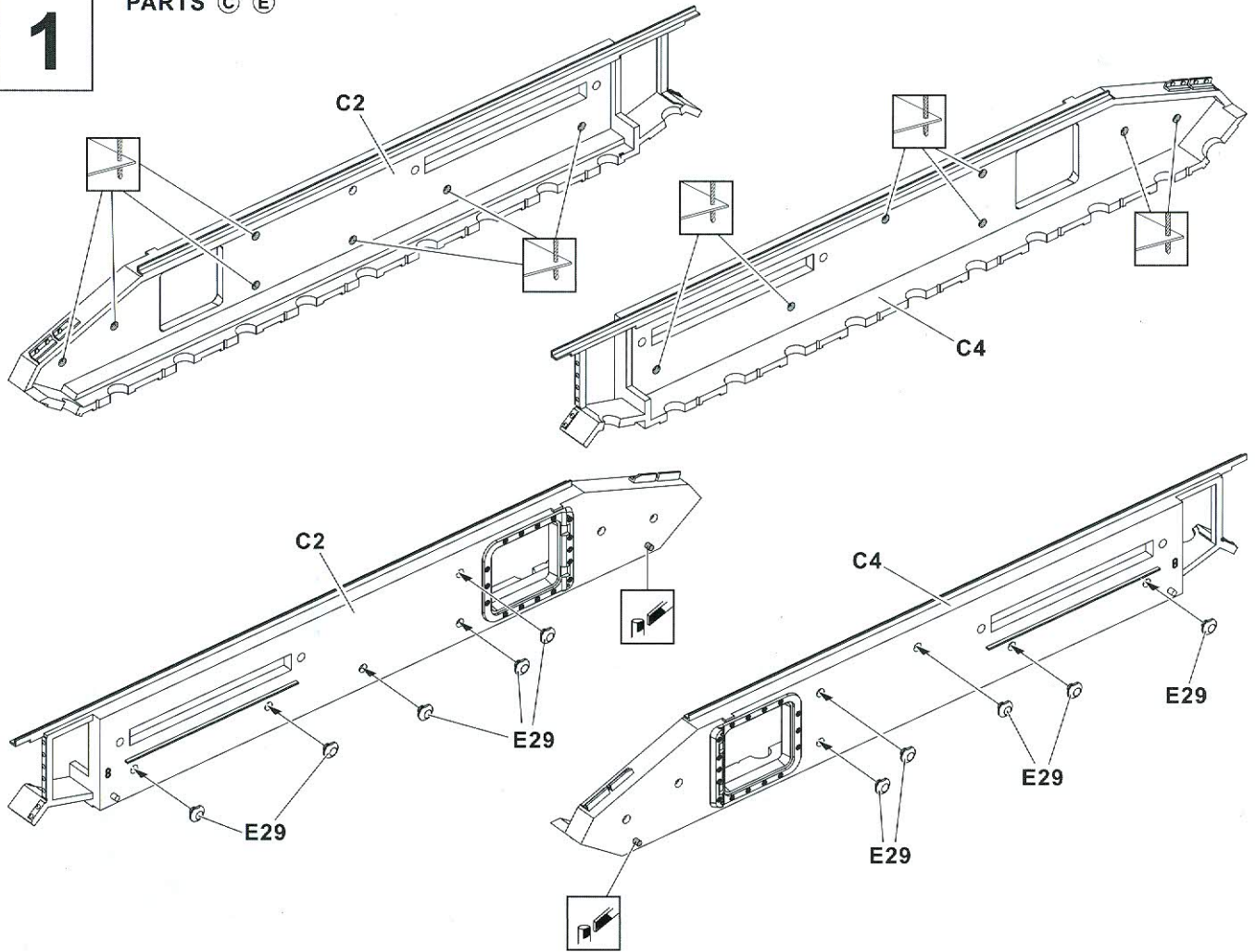


"Snake" Mine-clearing Line Charge Device Carrier



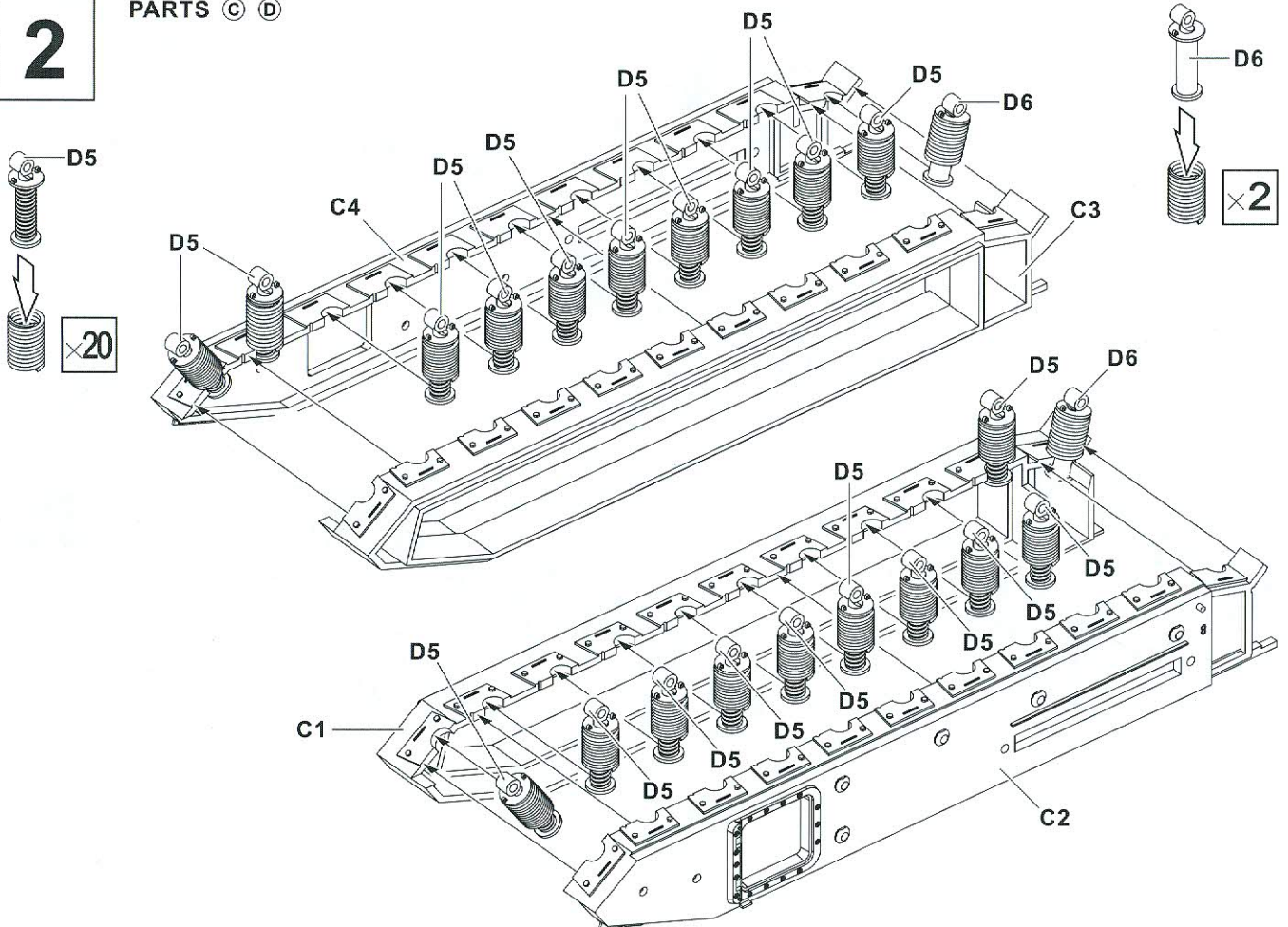
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PARTS C E



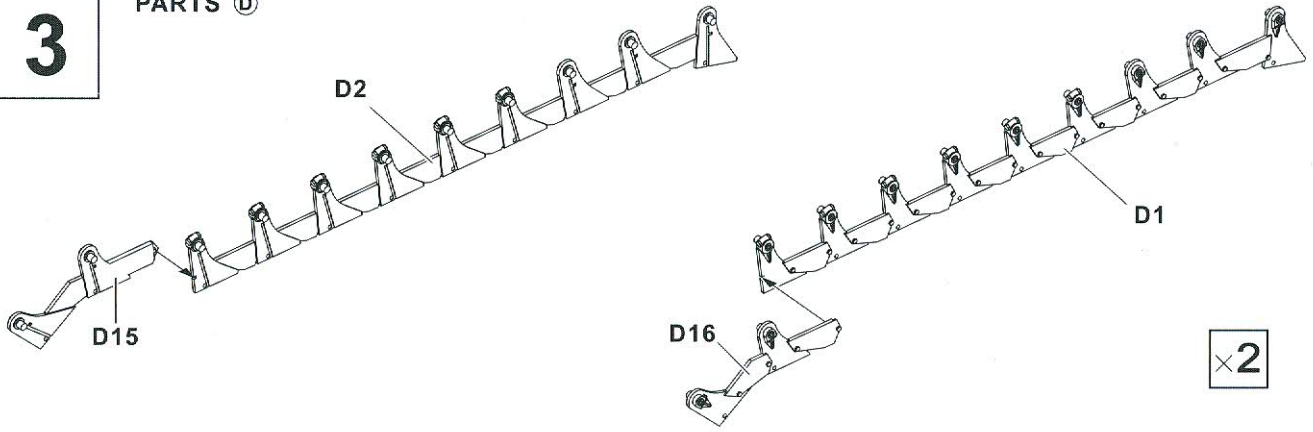
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PARTS C D



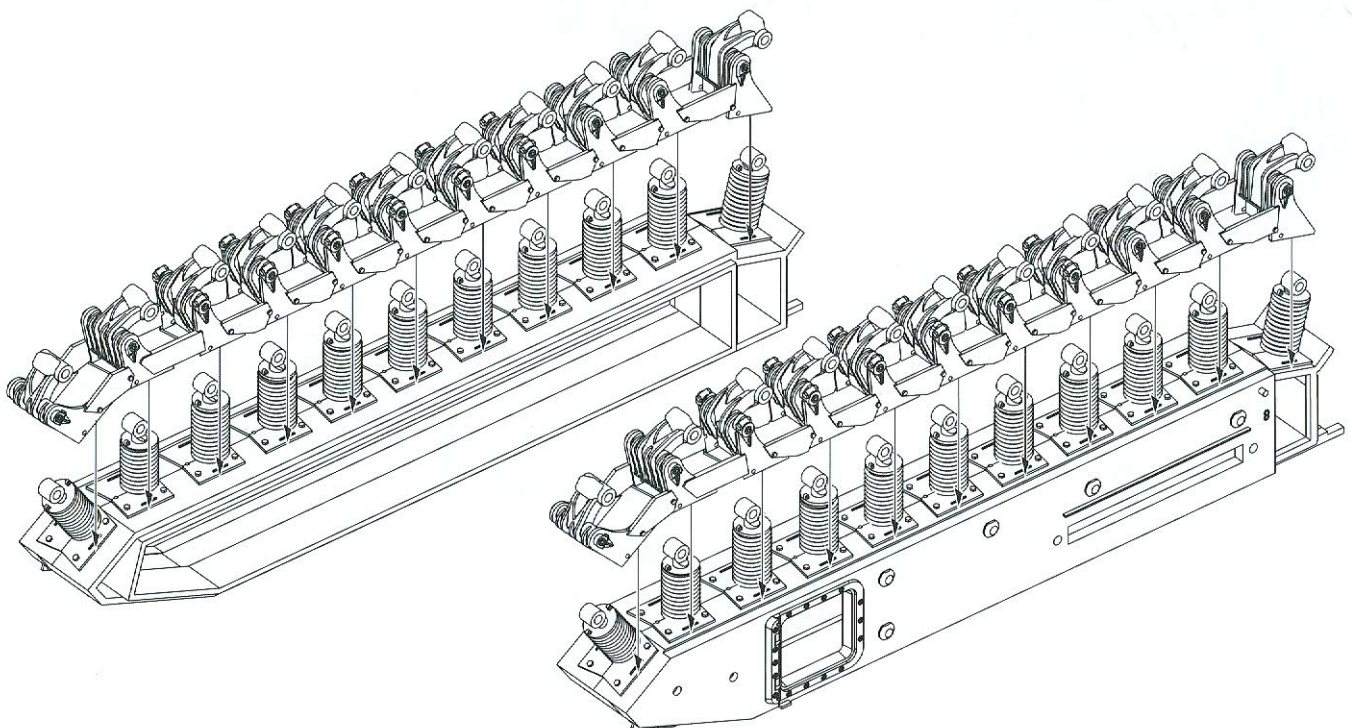
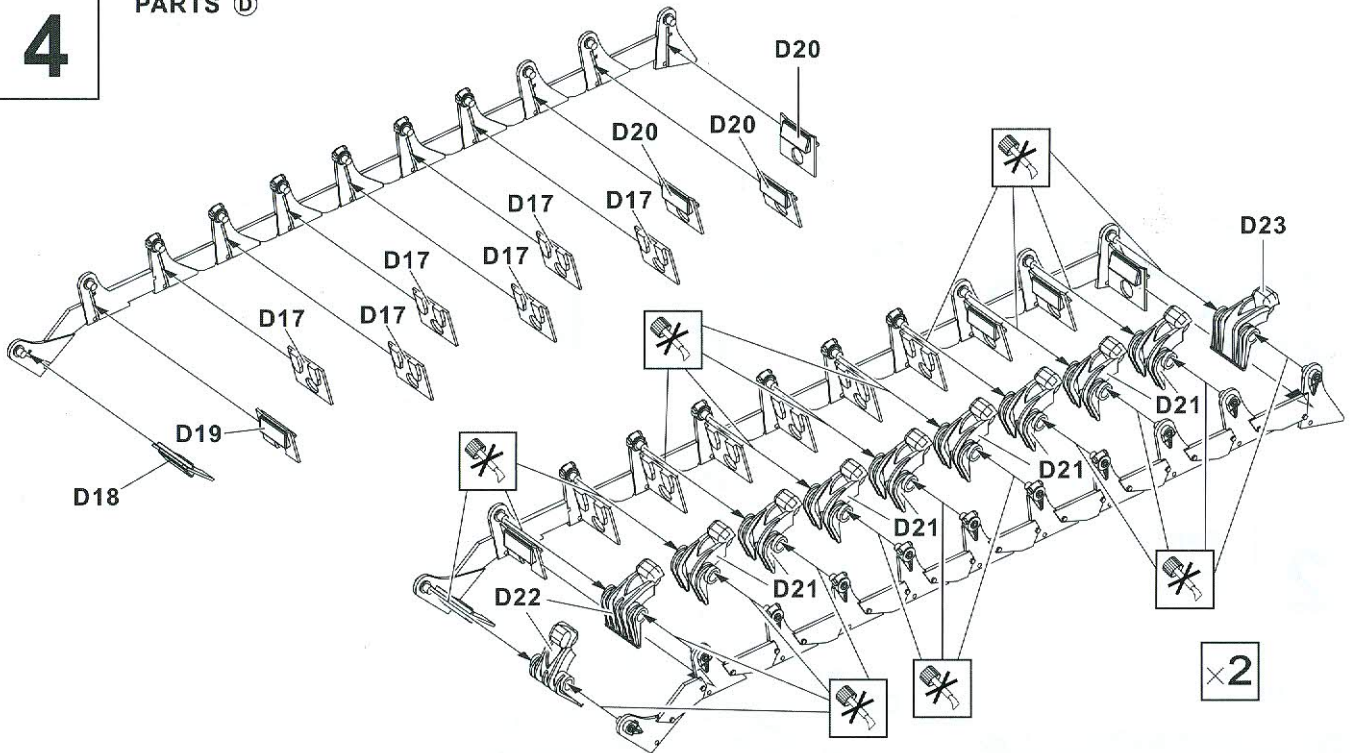
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PARTS ①



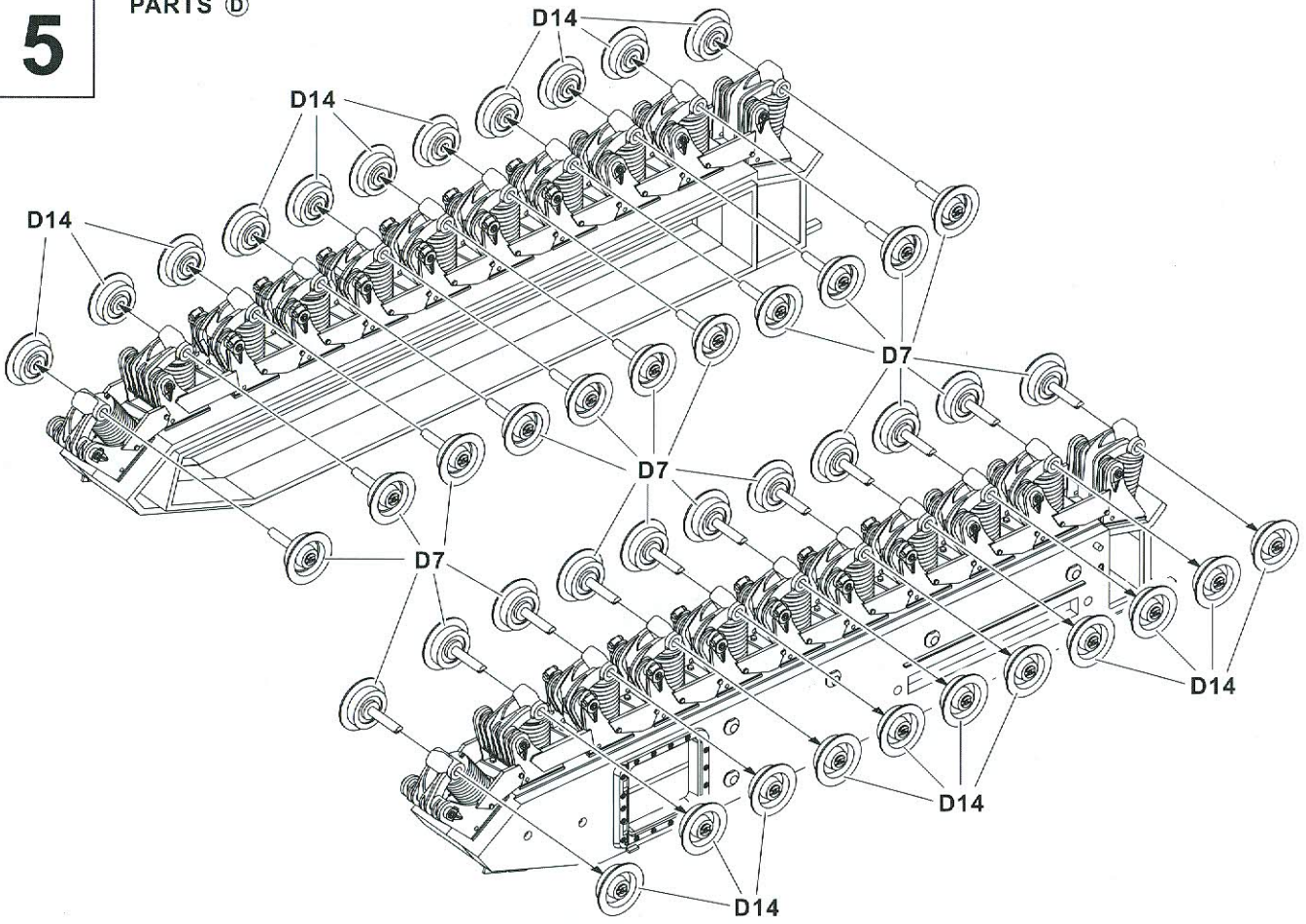
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PARTS ①



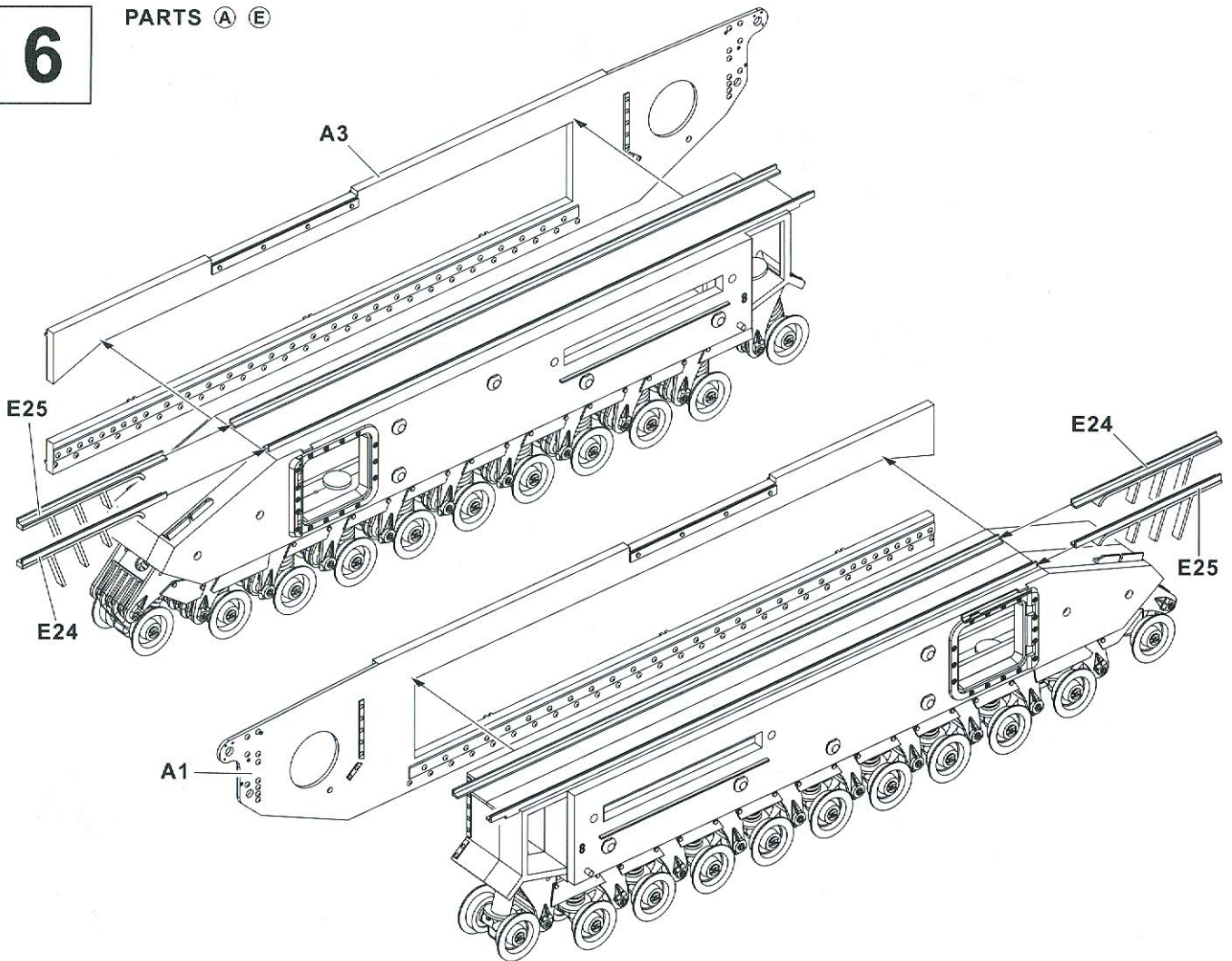
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PARTS ⓓ



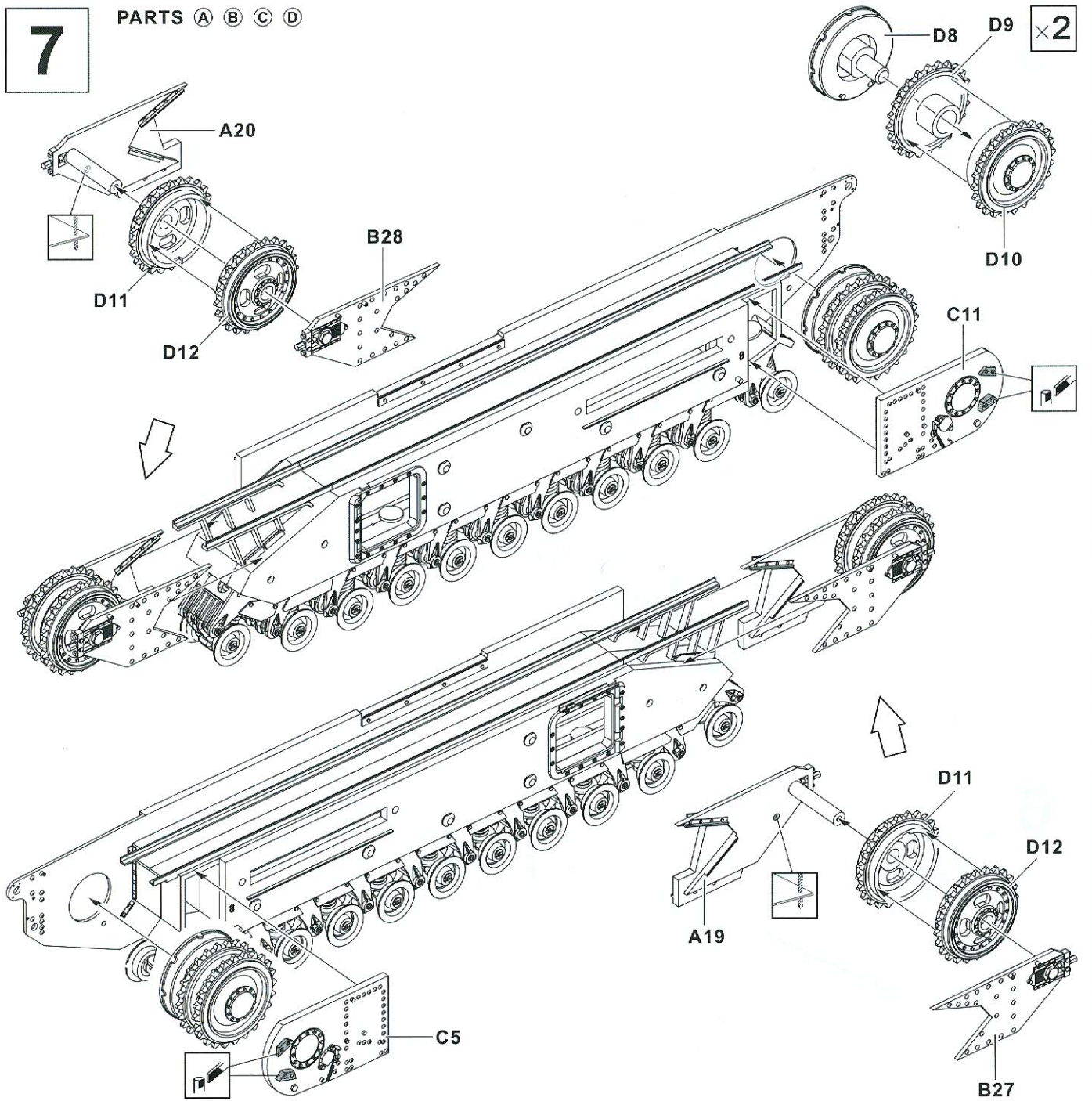
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PARTS ⓐ ⓔ



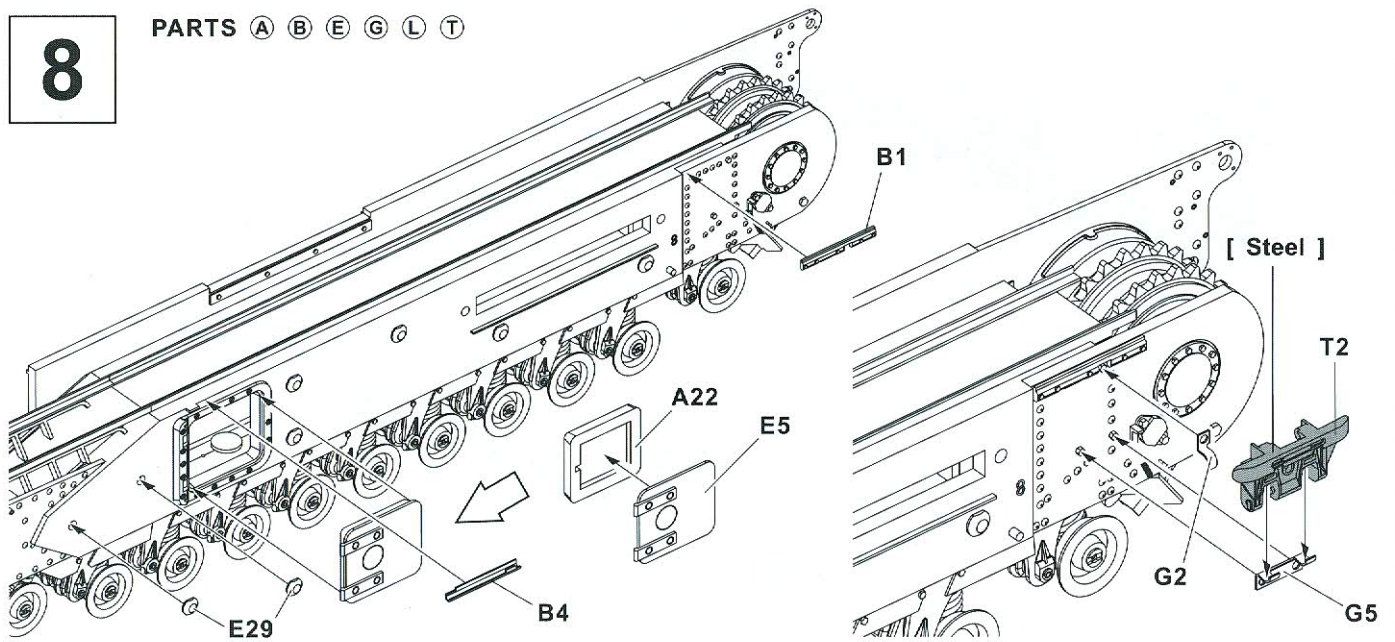
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PARTS A B C D



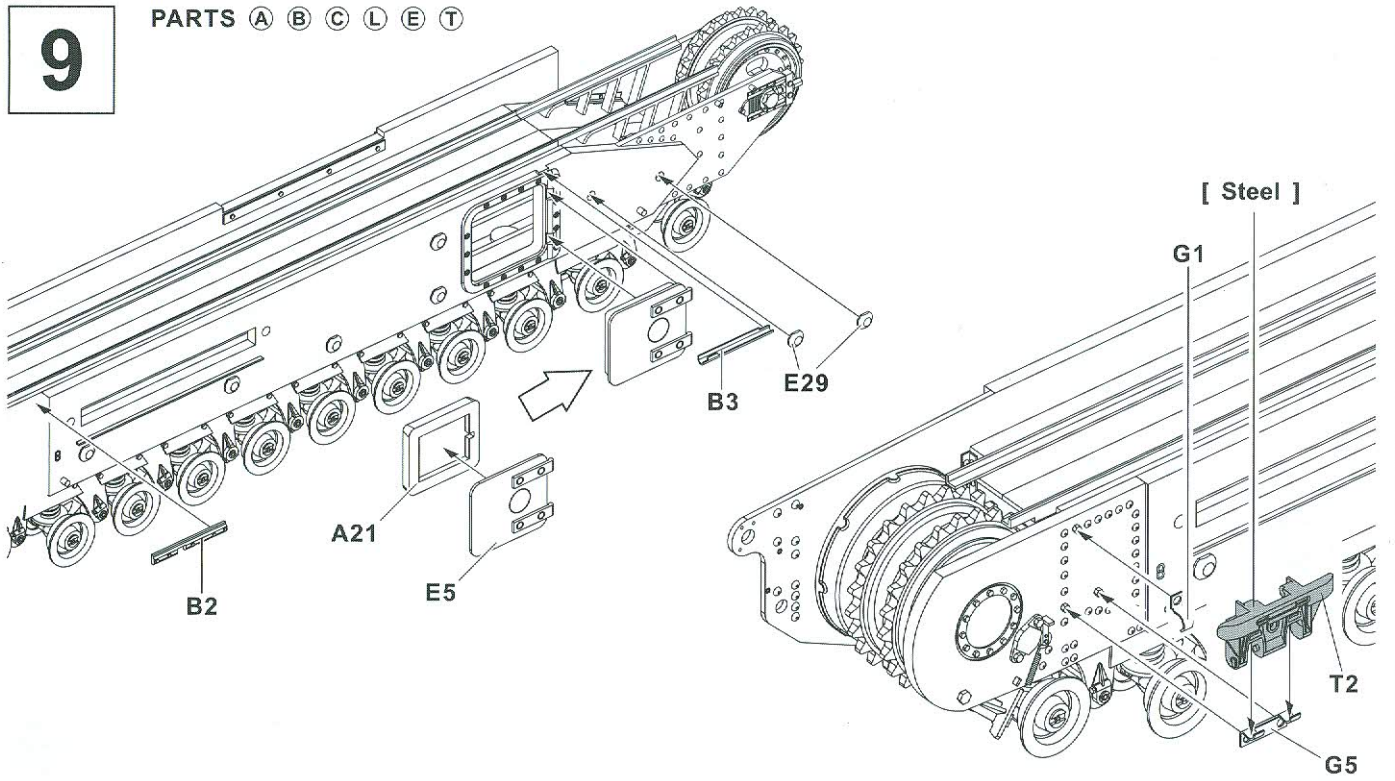
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PARTS A B E G L T



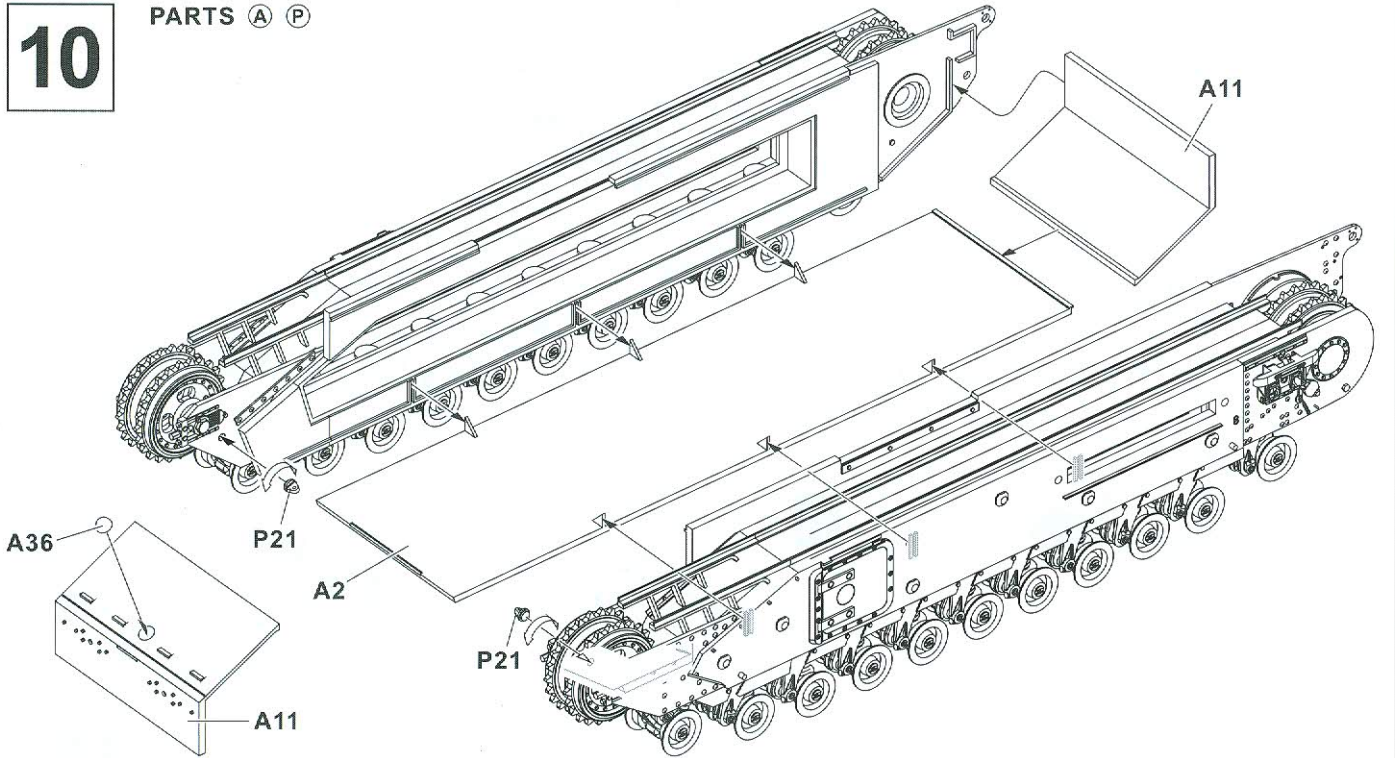
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PARTS A B C L E T



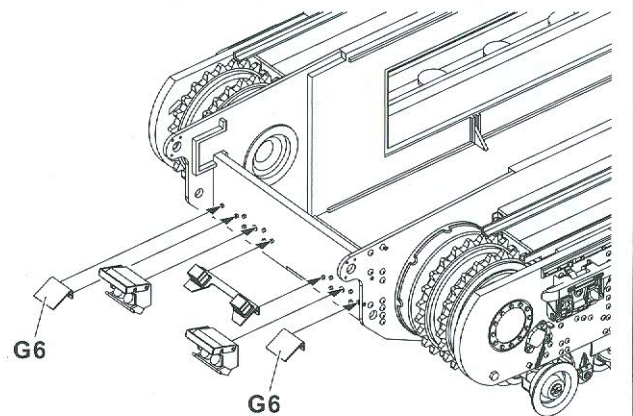
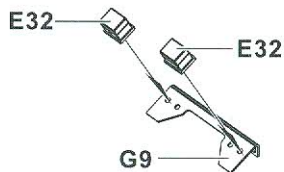
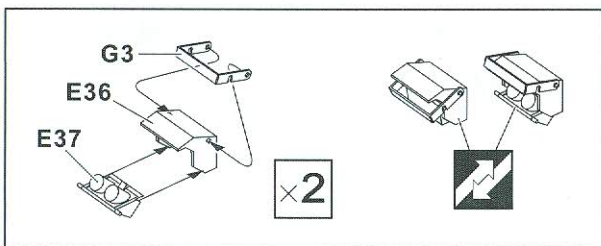
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PARTS A P



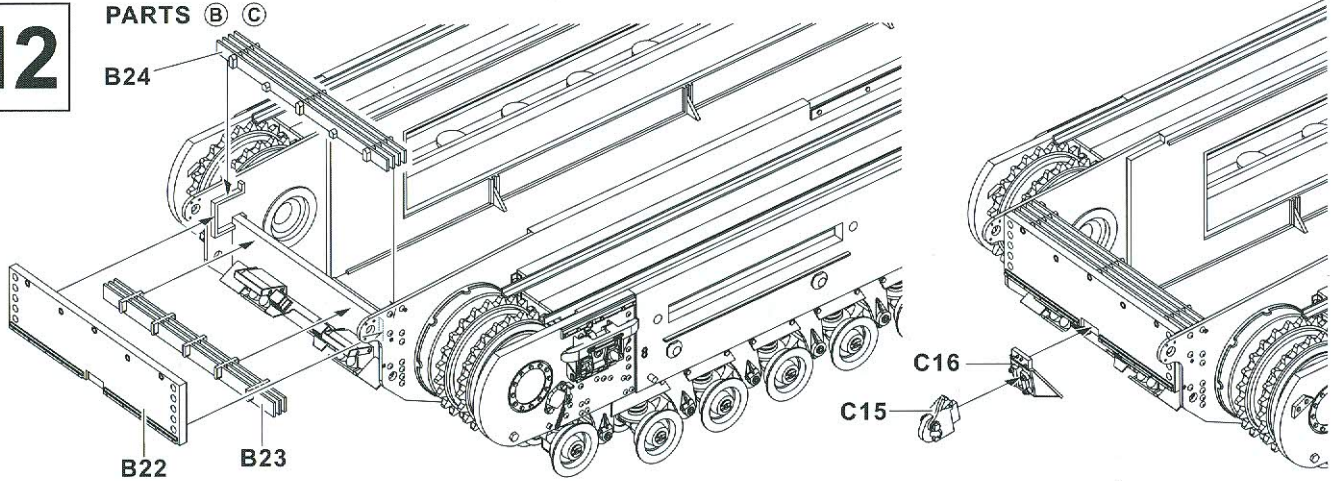
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PARTS E G



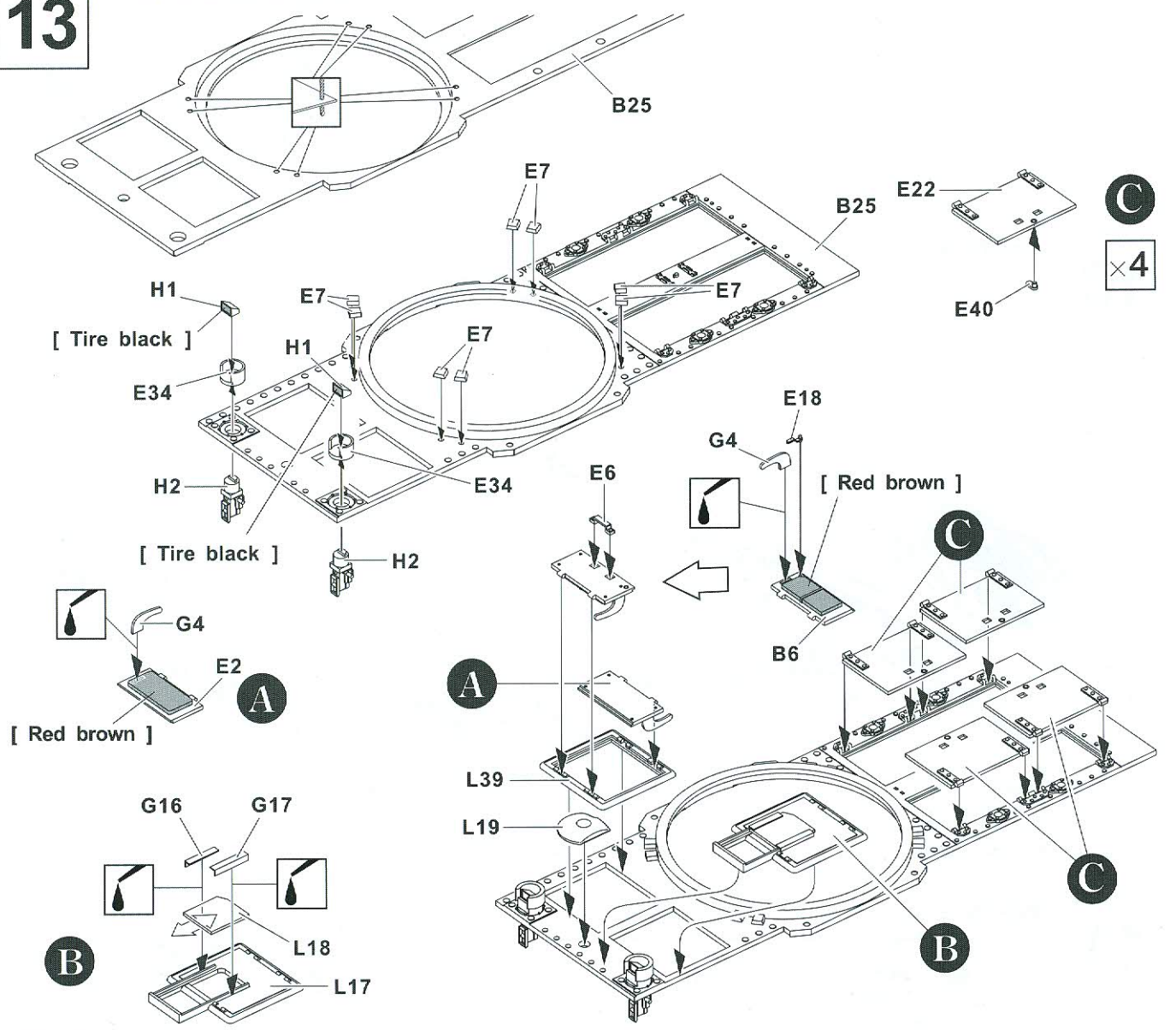
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PARTS (B) (C)



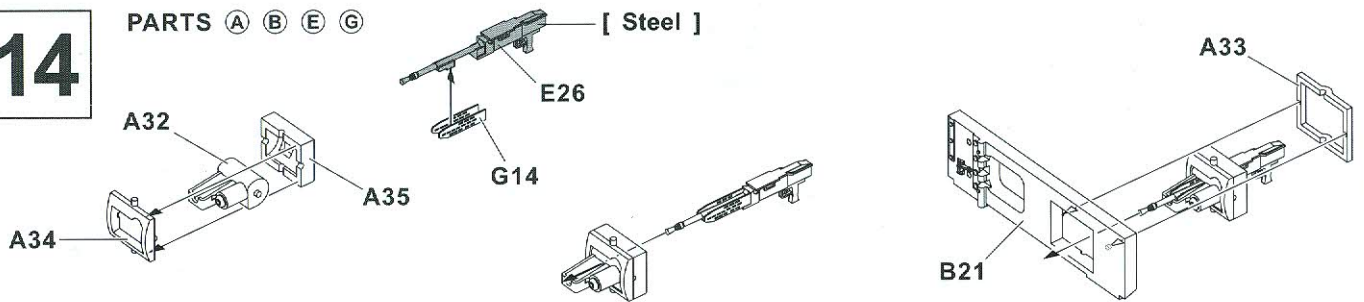
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PARTS (B) (E) (G) (H) (P)



14

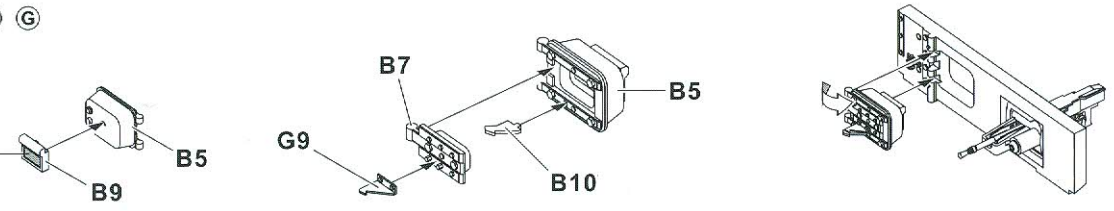
PARTS (A) (B) (E) (G)



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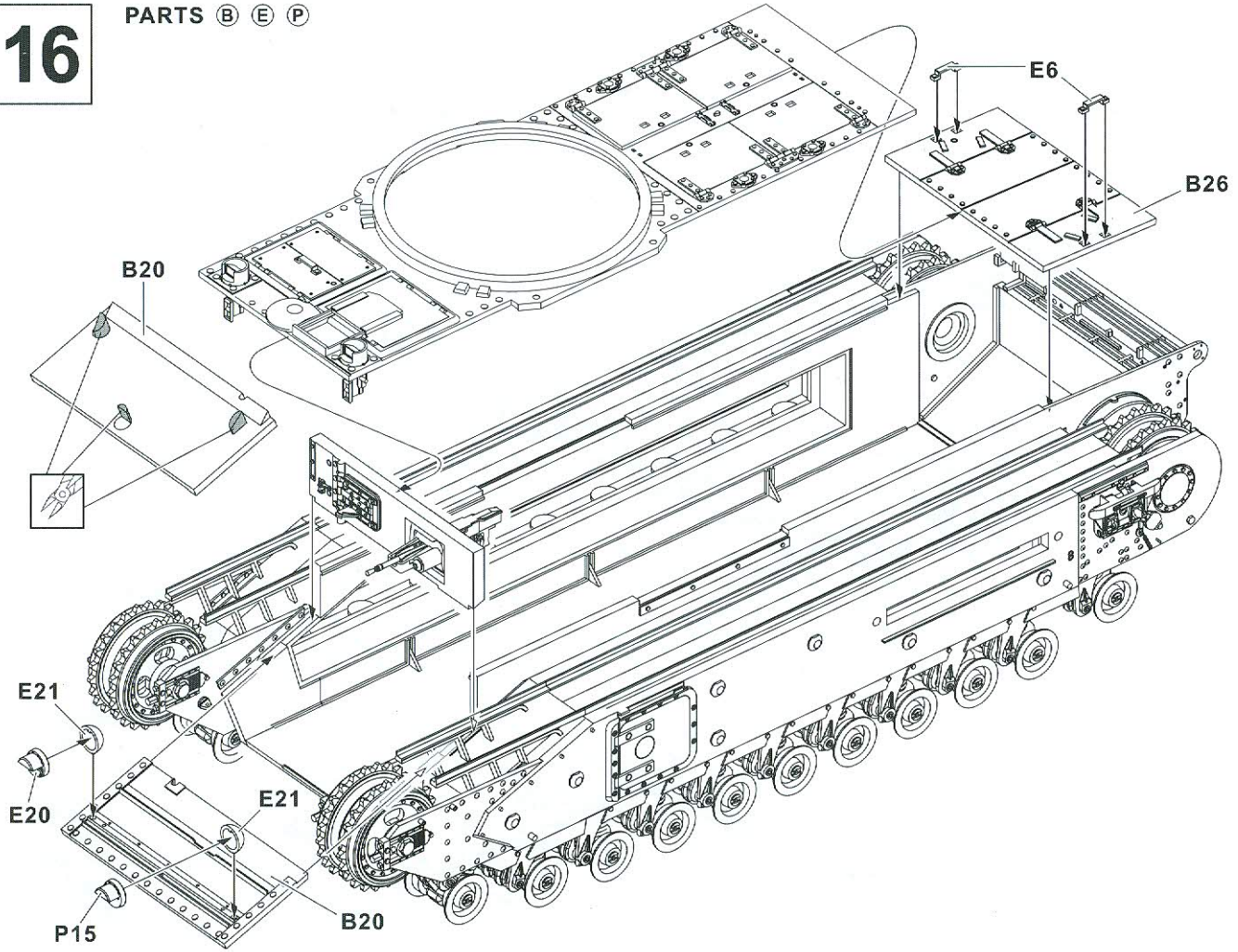
PARTS (B) (G)

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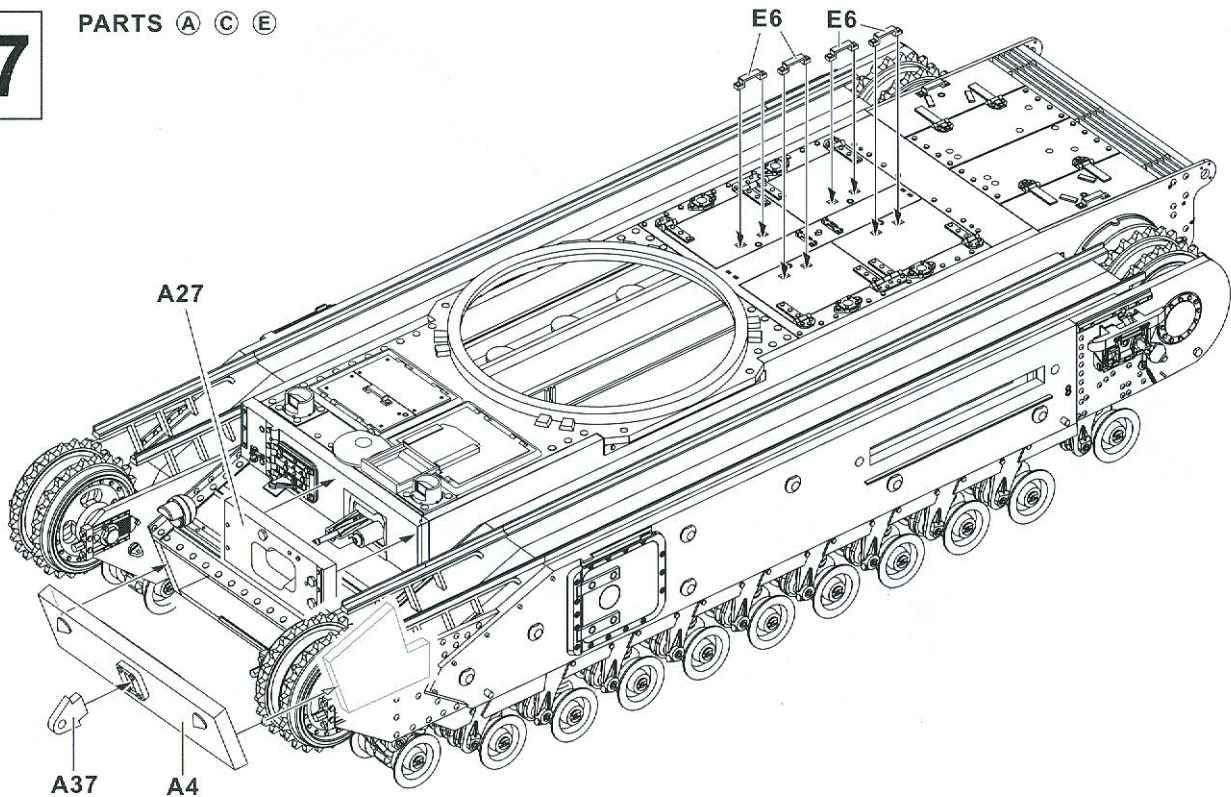
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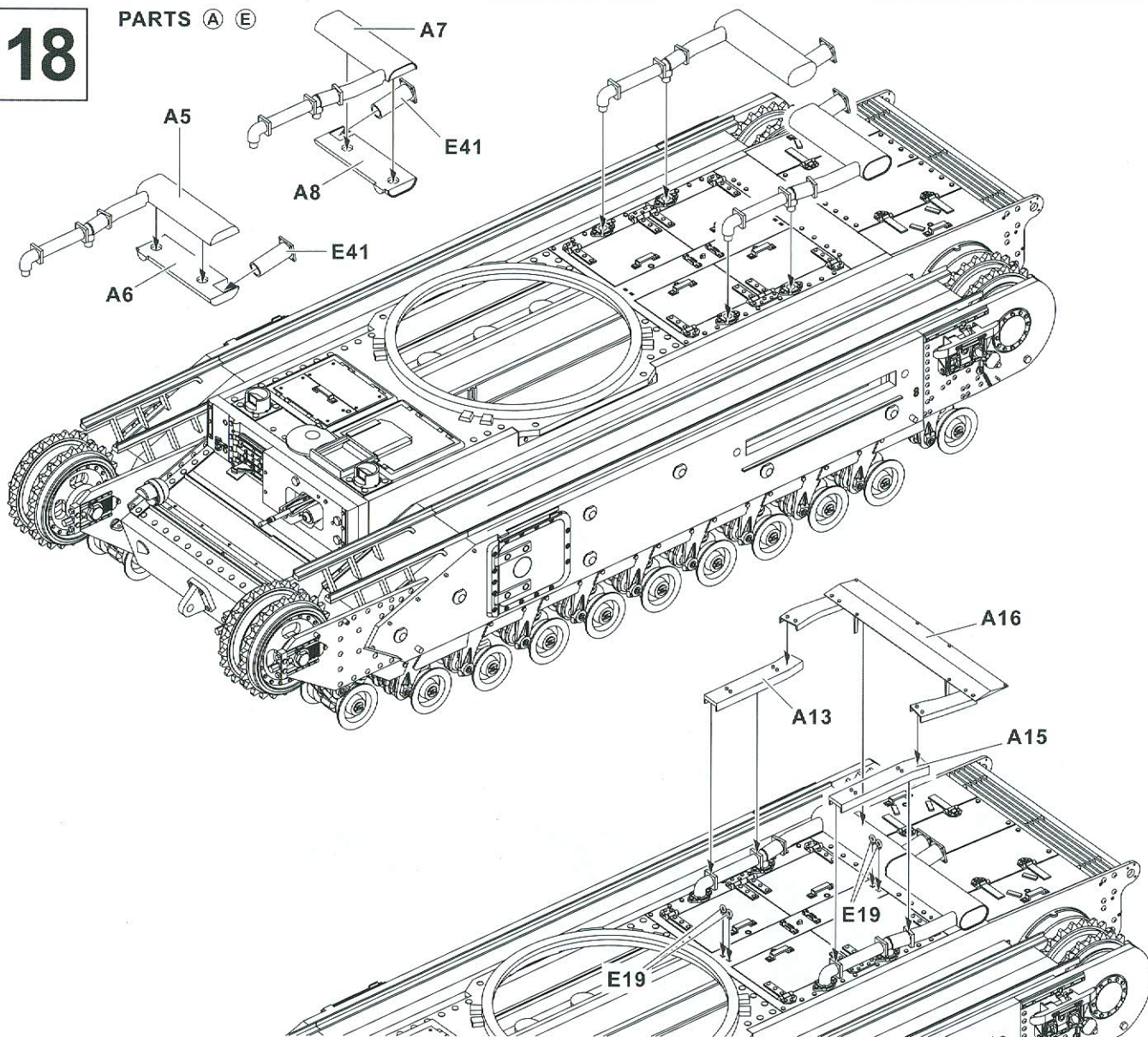
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PARTS (A) (C) (E)



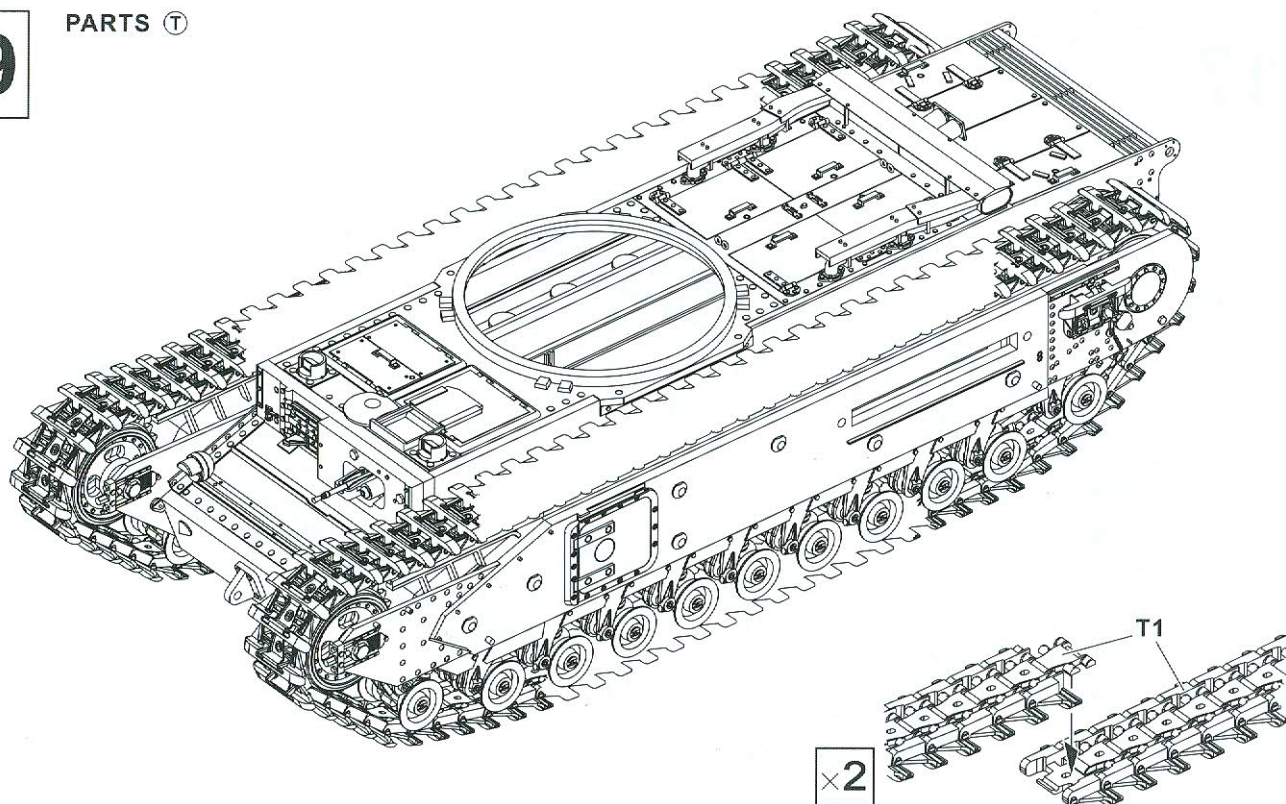
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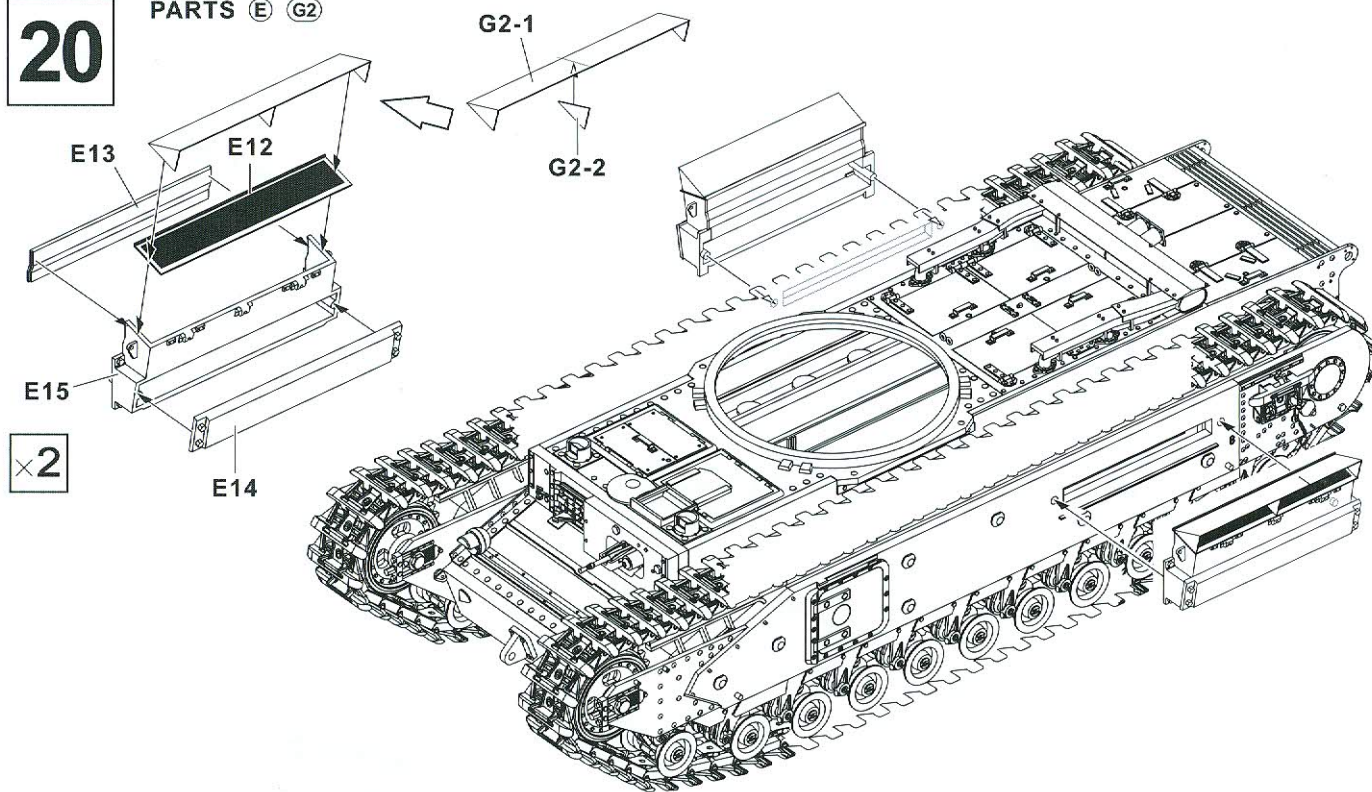
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PARTS (T)



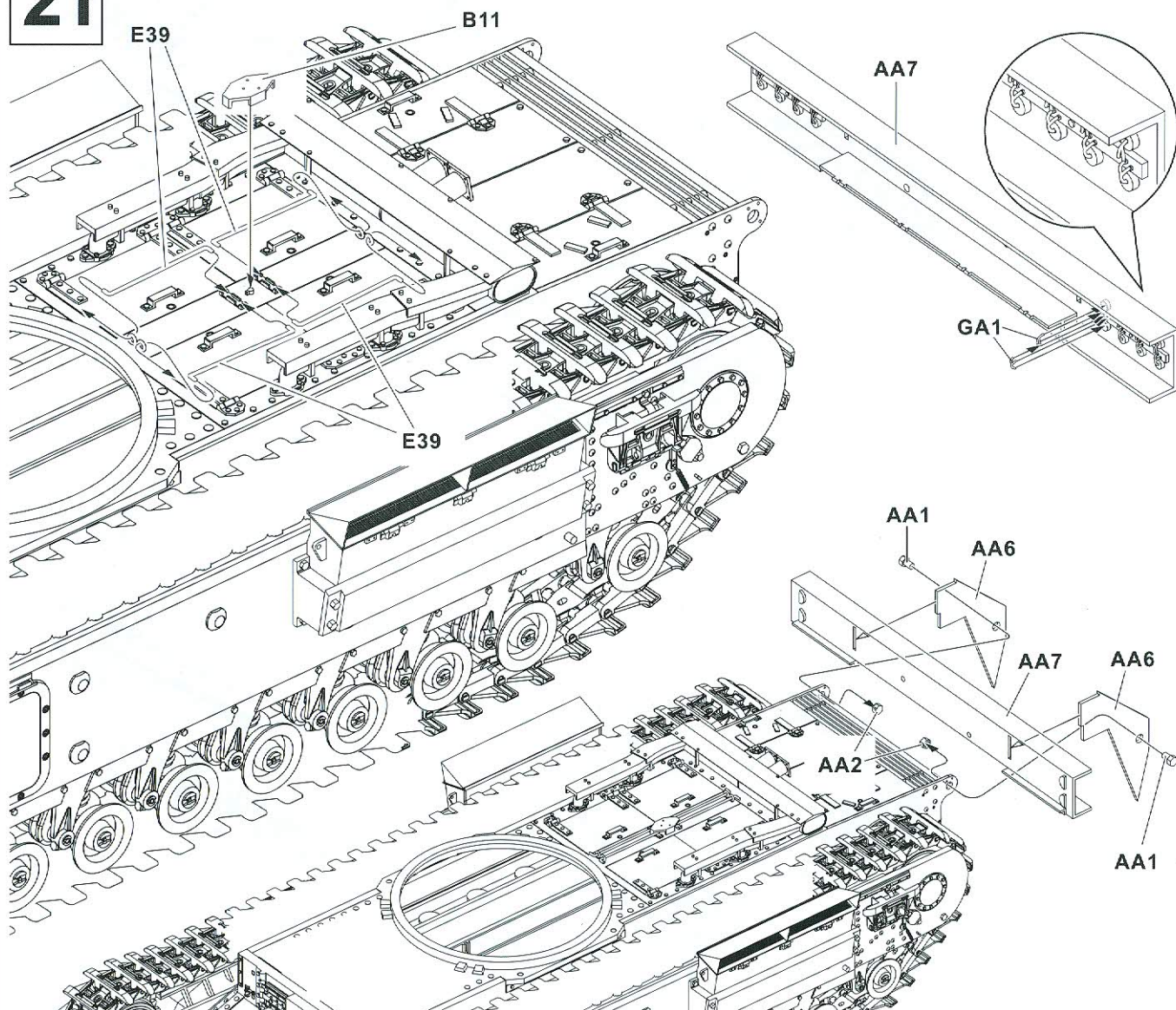
20

PARTS E G2



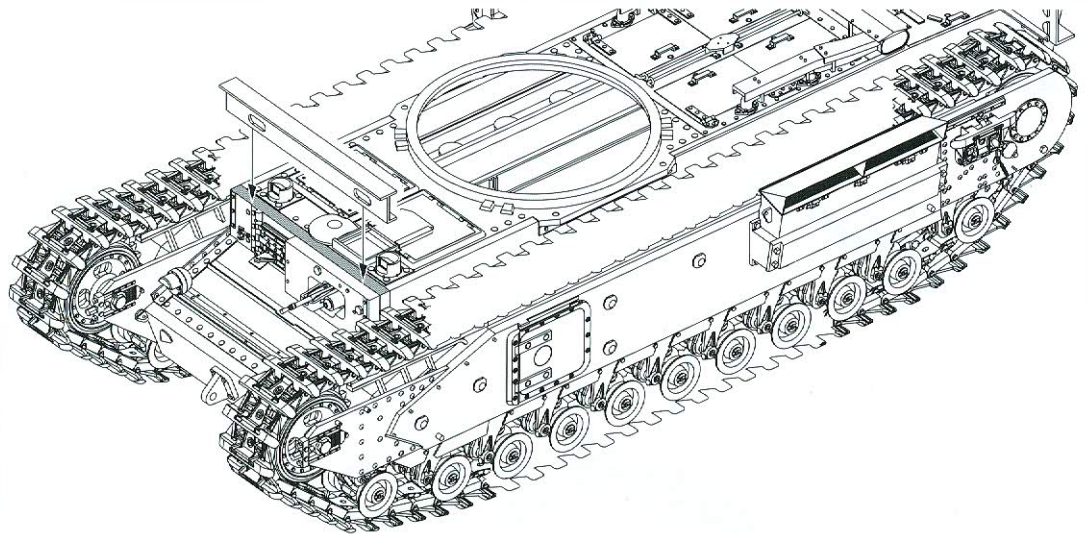
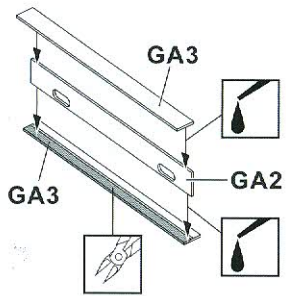
21

PARTS B E AA GA



22

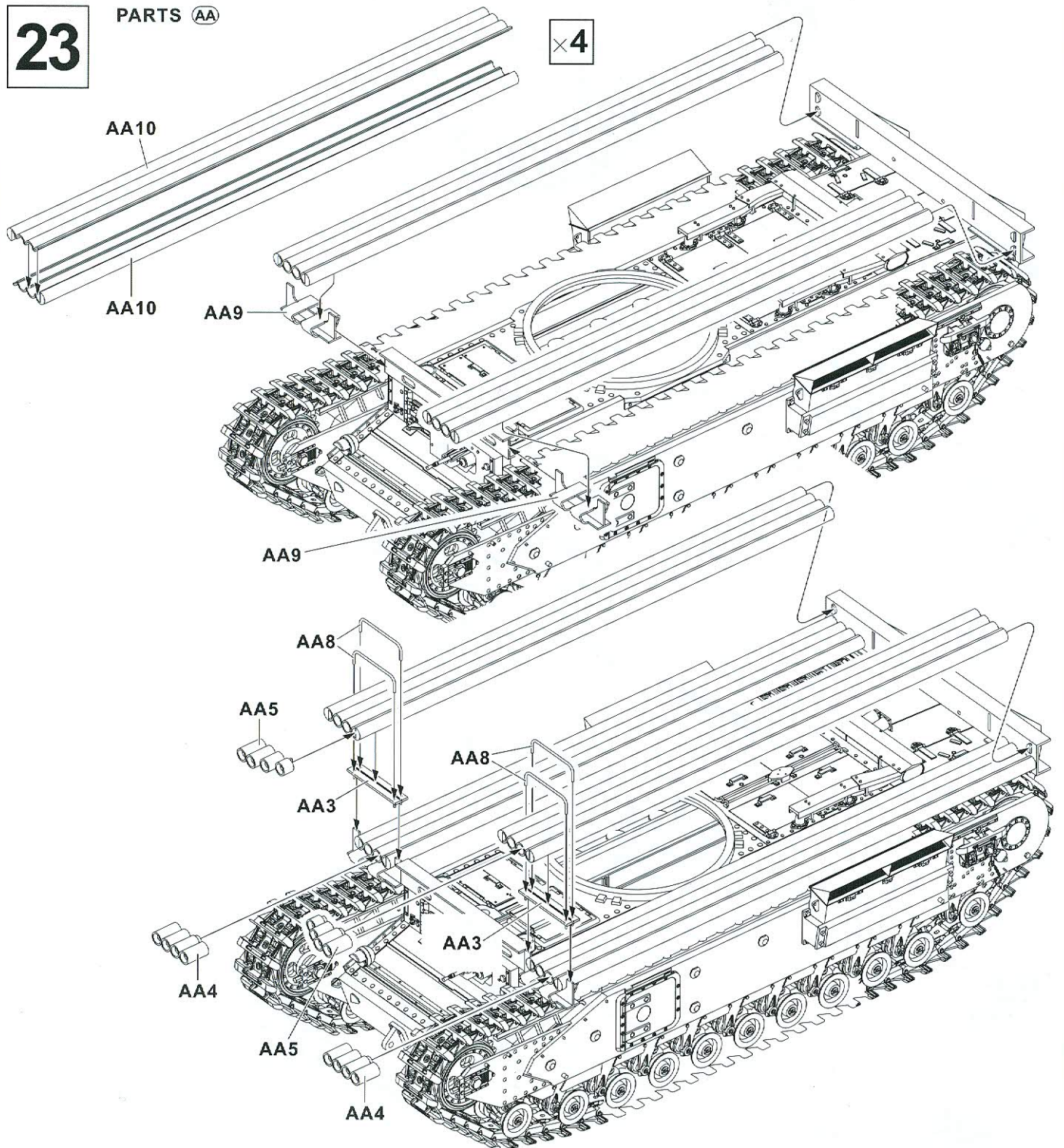
PARTS (GA)



23

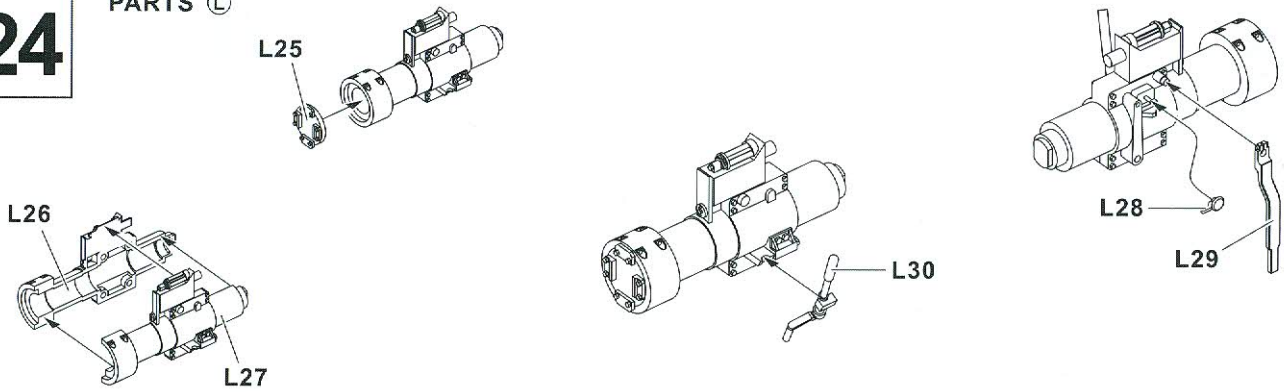
PARTS (AA)

×4



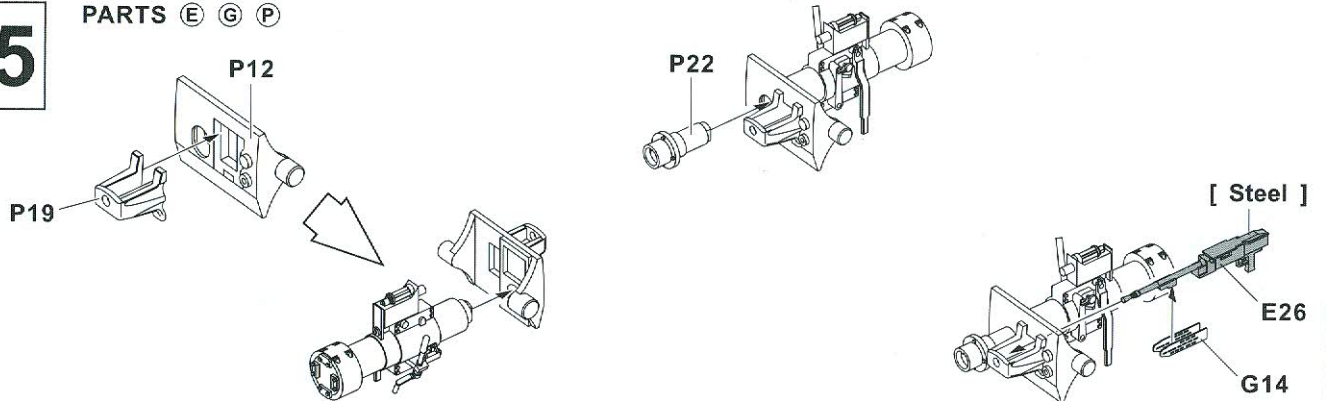
24

PARTS (L)



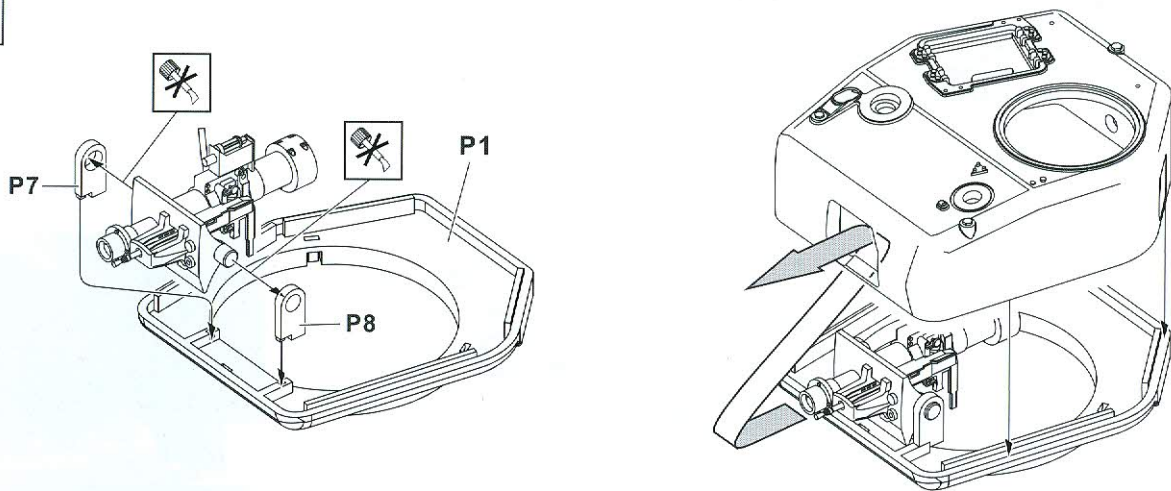
25

PARTS (E G P)



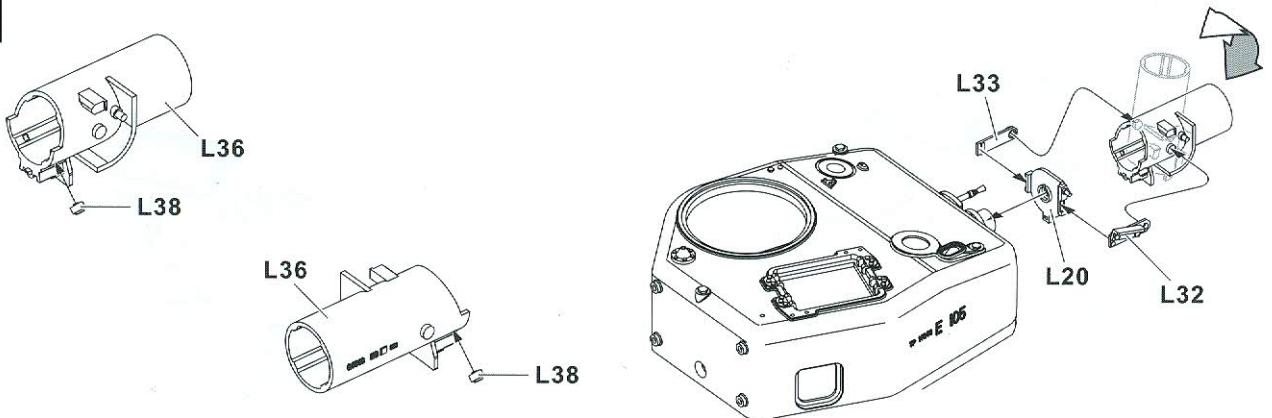
26

PARTS (P)



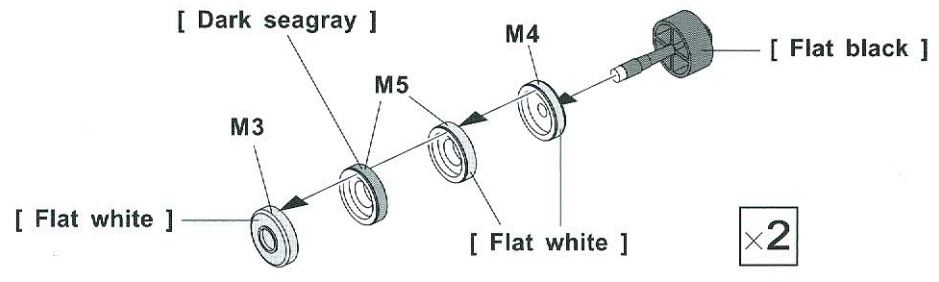
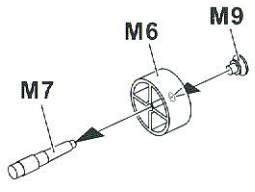
27

PARTS (L)



28

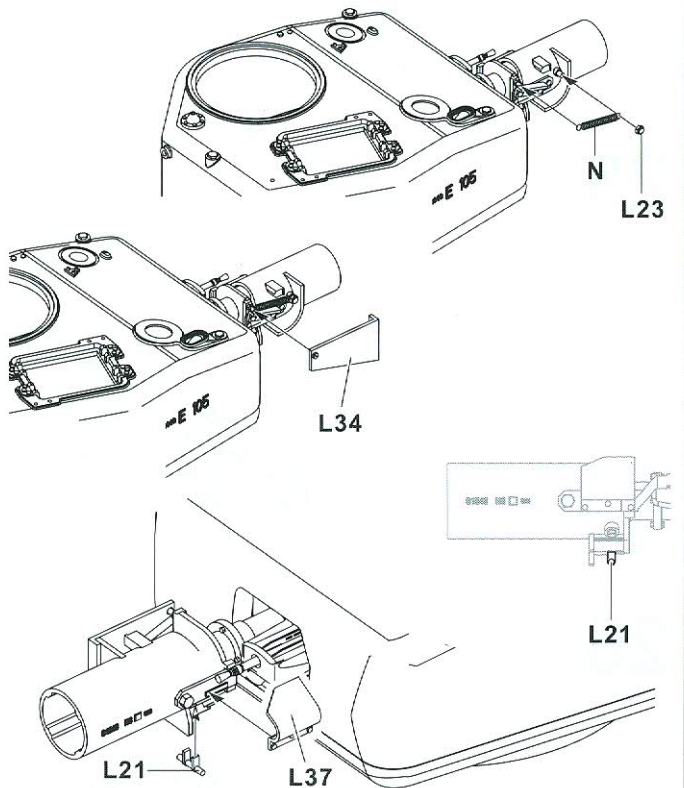
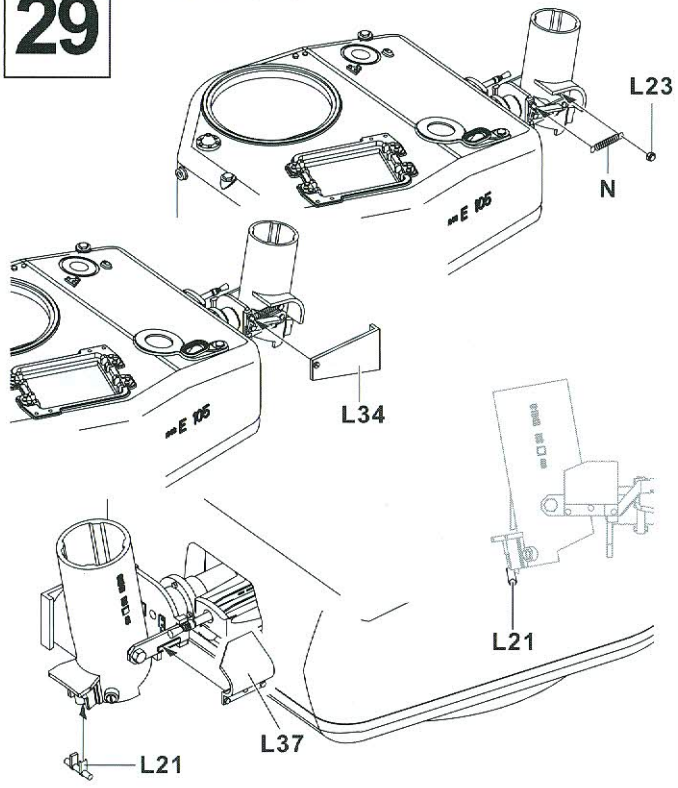
PARTS (M)



×2

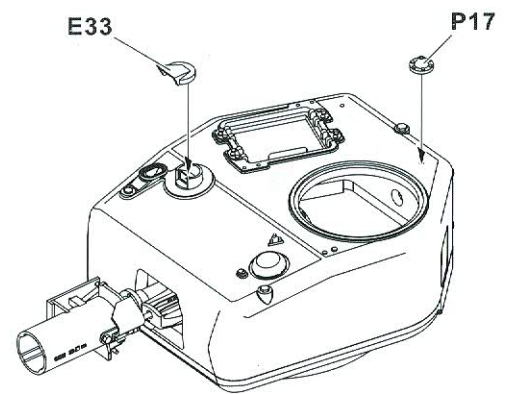
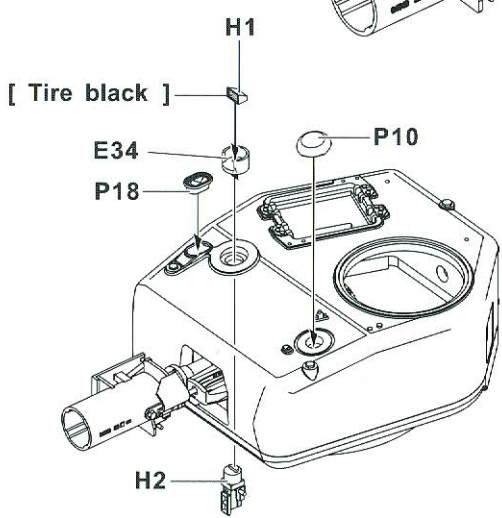
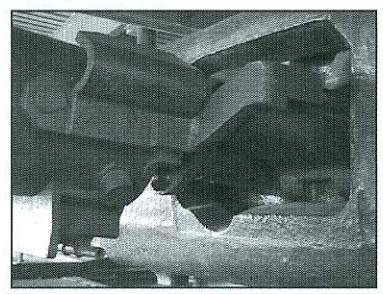
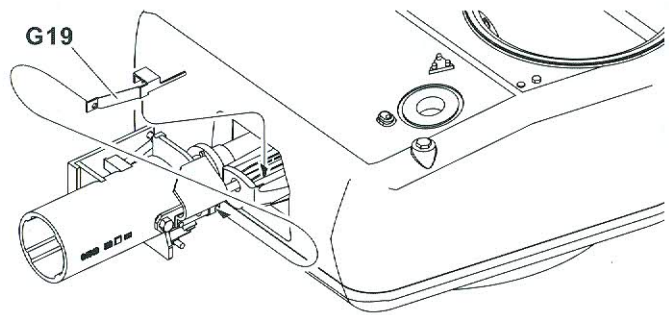
29

PARTS (L, N)

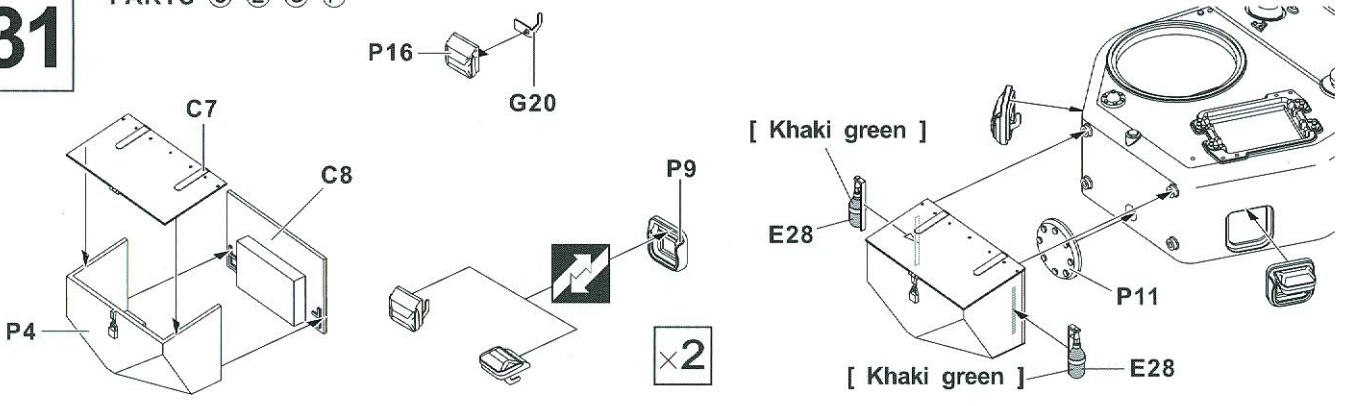


30

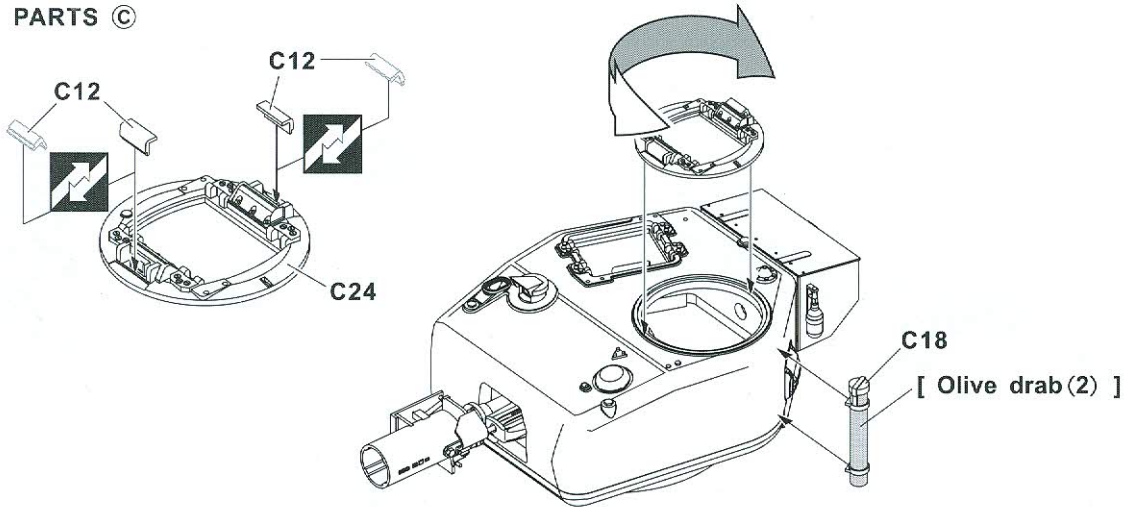
PARTS (E, G, H, P)



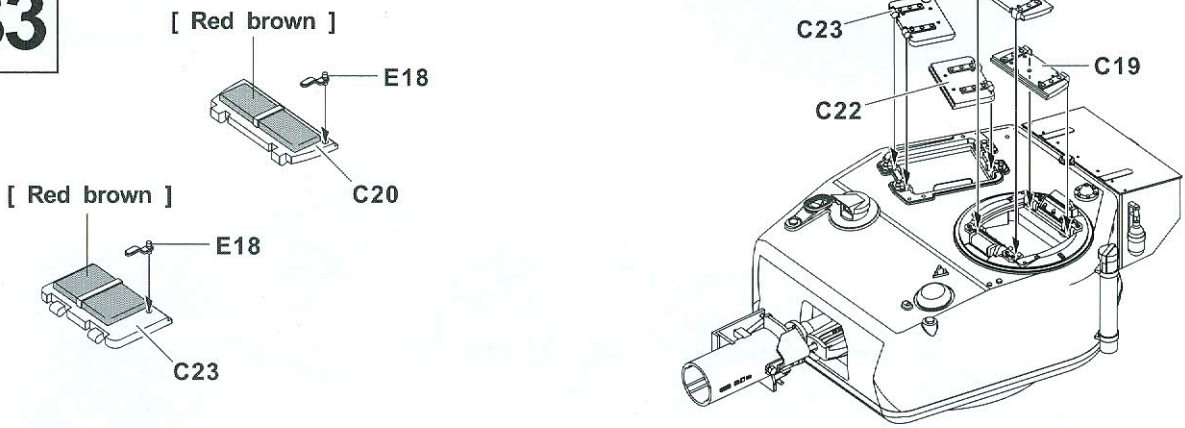
31 PARTS C E G P



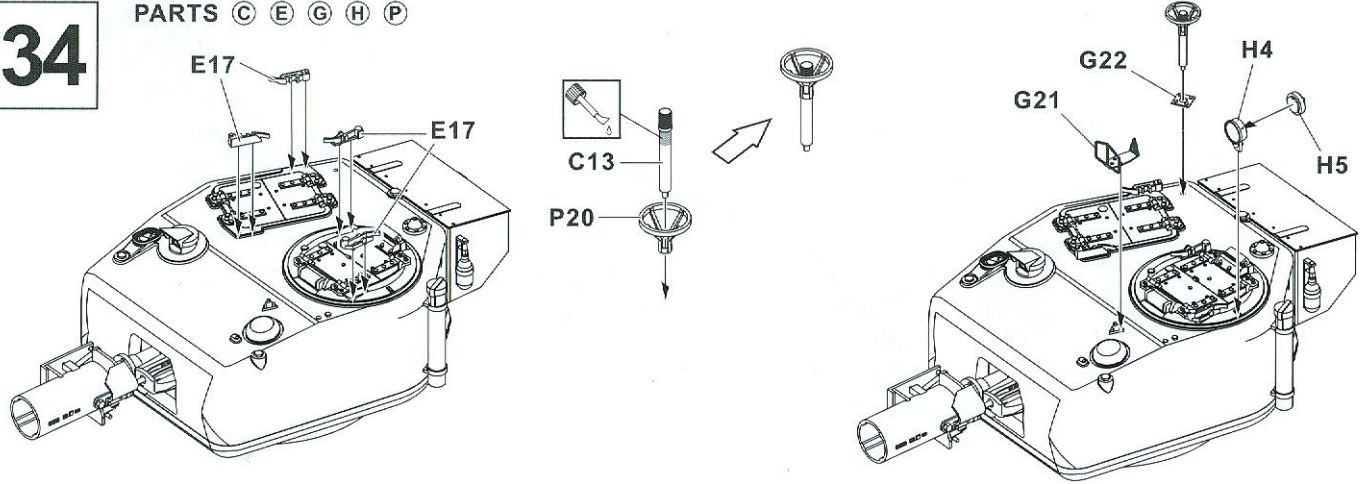
32 PARTS C



33 PARTS C E



34 PARTS C E G H P



35

PARTS E G

Length: 110mm

2cm

3cm

Pull

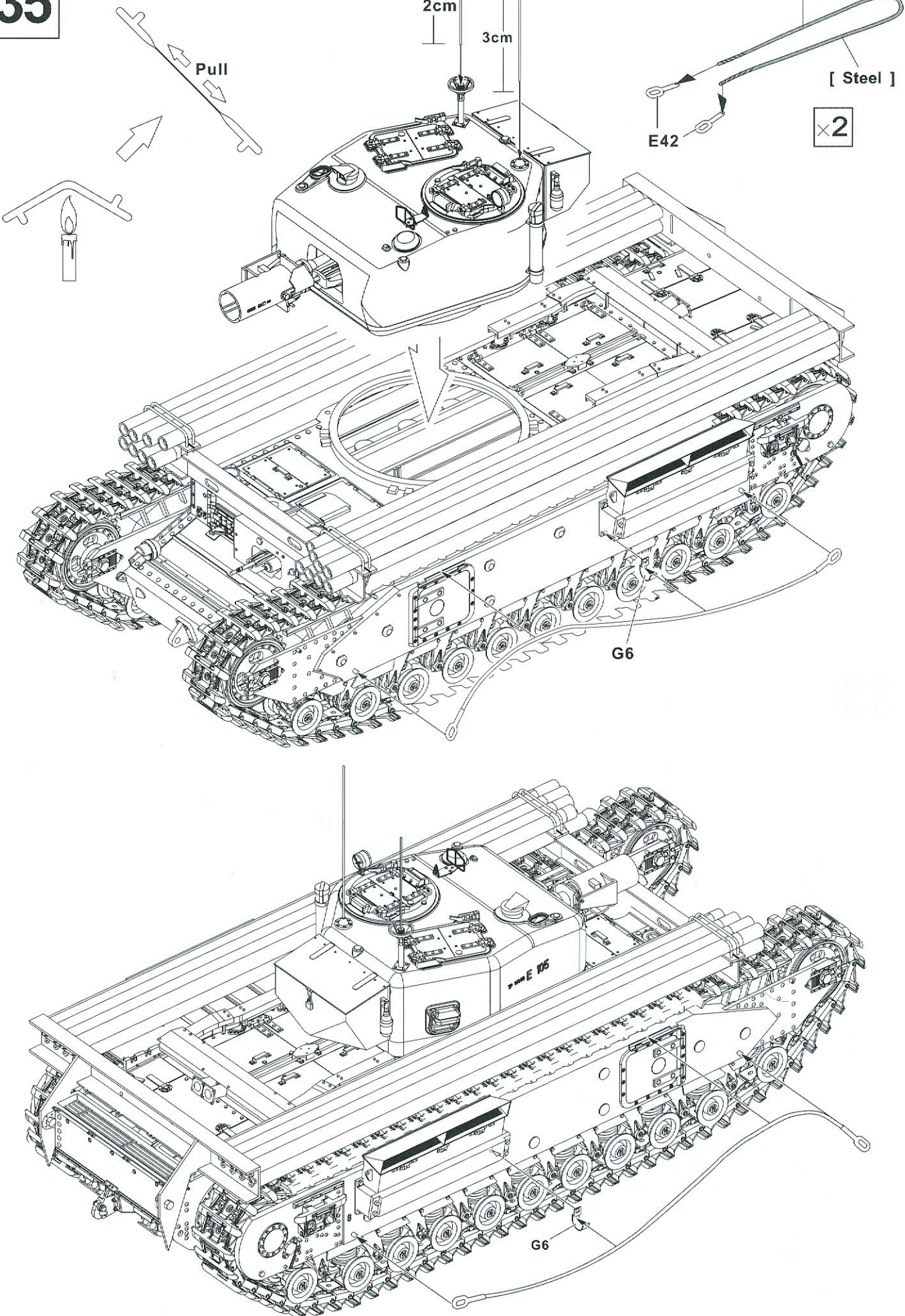
[Steel]

E42

×2

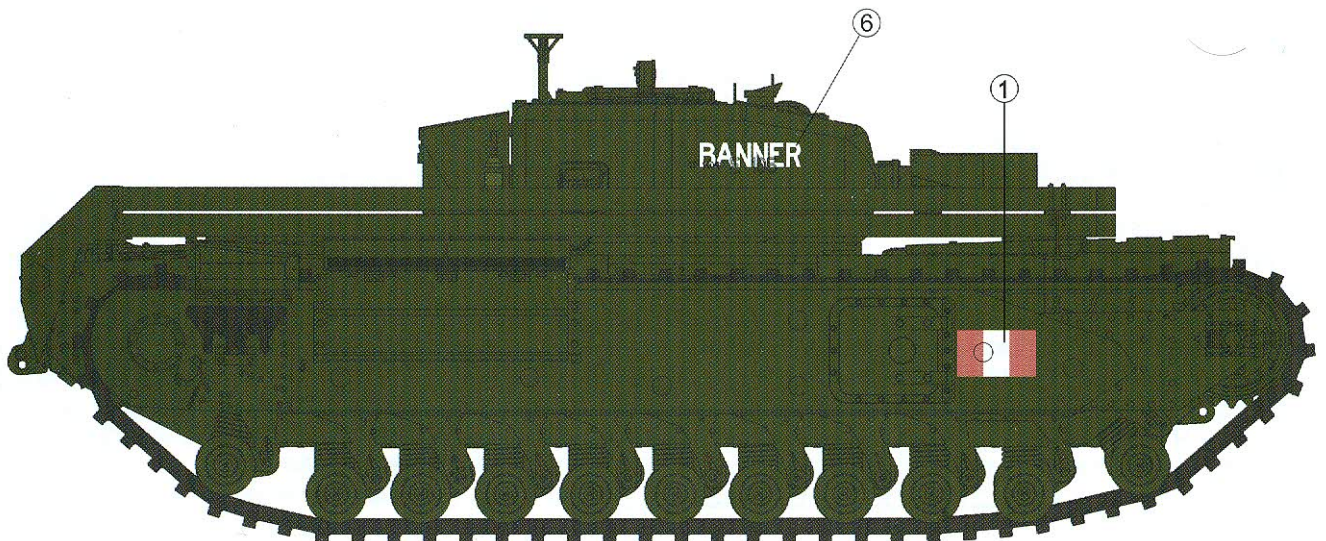
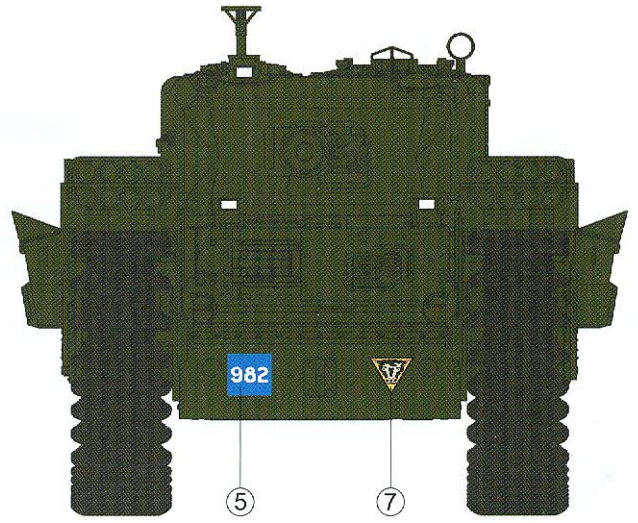
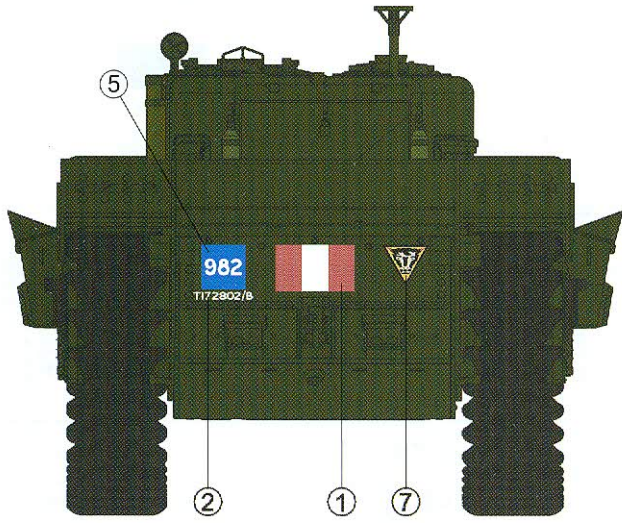
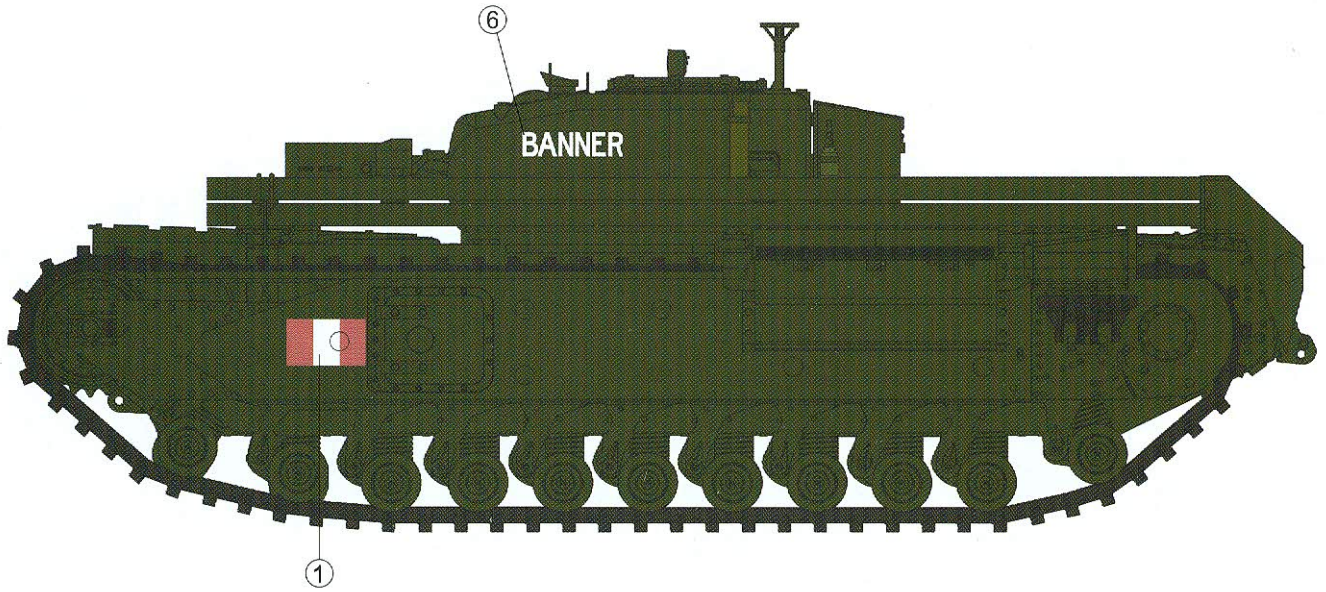
G6

G6





Body Color: Dark Green



PARTS LIST 零件表

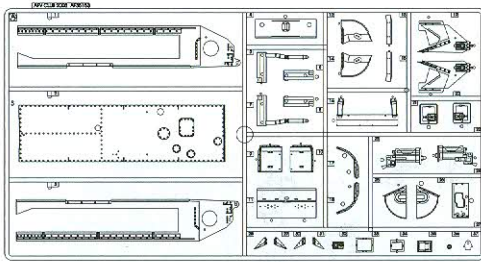
T X1

AF 35153



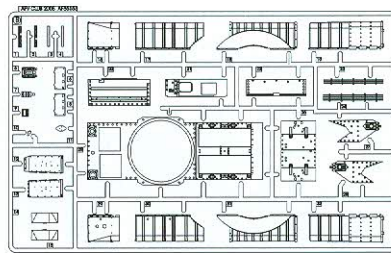
A X1

AF 35153



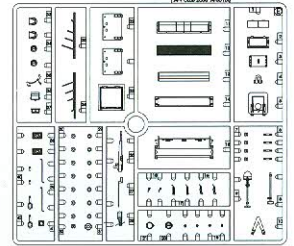
B X1

AF 35153



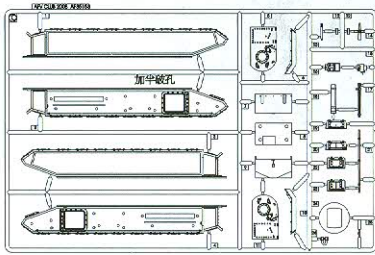
E X2

AF 35153



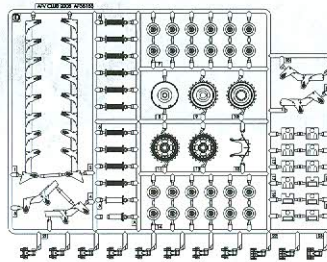
C X1

AF 35153



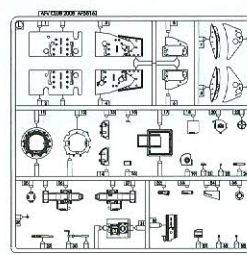
D X2

AF 35153



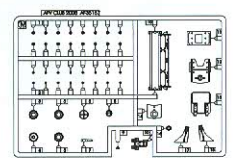
L X1

AF 35167



M X1

AF 35167



O X1

AF 35154



N X1

AF 35167



G X1

AF 35167



G2 X1

AF 35169



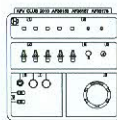
GAX1

AF 35259



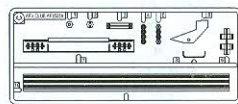
H X1

AF 35153



AA X8

AF 35259



J X1

AF 35259



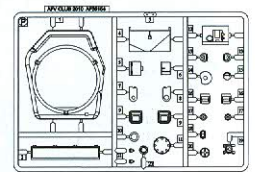
K X22

AF 35153



P X1

AF 35154



Instructions:

If for some reason, you are not fully satisfied or have questions concerning our product; Please use the form provide, and send it to our nearest representative or mail it directly to our office.

We will deal with that A.S.A.P.

限臺灣地區使用 For Taiwanese use only!



AF 35259 零件補充申請表

申請人姓名 地址 電話

- AF 35153-A — NT\$ 280
- AF 35259-AA — NT\$ 640
- AF 35153-B — NT\$ 280
- AF 35153-C — NT\$ 240
- AF 35153-D — NT\$ 320
- AF 35153-E — NT\$ 210
- AF 35167-G — NT\$ 220
- AF 35169-G2 — NT\$ 150
- AF 35259-GA — NT\$ 200
- AF 35167-H — NT\$ 120
- AF 35259-J — NT\$ 160
- AF 35153-K — NT\$ 120
- AF 35167-L — NT\$ 280
- AF 35167-M — NT\$ 320
- AF 35167-N — NT\$ 60
- AF 35154-O — NT\$ 150
- AF 35154-P — NT\$ 200
- AF 35153-T — NT\$ 280
- +郵寄費 — NT\$ 80

(請填)總計NT\$ _____

零件補充原因:(請於 打)

原包裝即 遺失或 毀損,

製作途中 遺失或 毀損,

其他原因 _____

總代理戰鷹企業有限公司收本公司將儘速為您處理。
請將本表與該部品相同金額之郵政匯票一同寄至



AF 35259 Parts Replacement Form

- AF 35153-A
- AF 35259-AA
- AF 35153-B
- AF 35153-C
- AF 35153-D
- AF 35153-E
- AF 35167-G
- AF 35169-G2
- AF 35259-GA
- AF 35167-H
- AF 35259-J
- AF 35153-K
- AF 35167-L
- AF 35167-M
- AF 35167-N
- AF 35154-O
- AF 35154-P
- AF 35153-T

Reason for replacement: Missing Broken

Signature: _____