



# Achilles Mk.IIC.



**British 17 Pounder Anti-Tank  
Self-Propelled Guns**

## 英國"阿基里斯"反戰車自走砲

### 17Pdr SPG Achilles

During WWII, due to its proximity away from battlefield and abundant national resources, as a member of the Allied camp United States of America was essentially the arsenal for its allies prior to and during its entry into the Great War through "Lend-Lease Act". American made weapons were seen on most fronts during the war.

Beginning from 1943, United States supplied United Kingdom and her member states various versions of M10 Pursuit Tank totaling up to 1648 units. Based on its production lot and difference in turret design, these M10 were named by U.K. As "Wolverines I", and "Wolverines II" respectively and were assigned to infantry troops as anti-tank self-propelled guns. Initial design of M10's turret already considered the potential for easy replacement and modification of main gun with various calibers of later-developed types. As planned, UK Replaced the original 76.2mm gun with its own locally produced Mk 5, 17 lb gun; most of the "Wolverines" underwent this modification. Because the Mk 5, 17 lb gun has a small barrel outer diameter than originally equipped 76.2 mm gun, a piece of forged armor plate had to be welded onto the shield in order to fill the gap; also due to the difference in gun sight placement original sight hole needed to be enlarged as well. Interior of these "Wolverines" were rearranged in order accommodate British made equipment. After receiving these modifications, based on different turret design the "Wolverines" were renamed as "Achilles IC", and "Achilles IIC" after the Greek mythological god, "Achilles" who is impervious to guns and swords except on the bottom of his feet.

When compare to original M10 having a range of -10 / +30 degree for main gun depression / elevation; "Achilles" was reduced to -5 / + 20 degree for its main gun; main gun ammunition load was also reduced from 54 to 50 rounds. But due its increase propellant and muzzle velocity, "Achilles" was more lethal than its American cousin -M10 and was able to effectively neutralize German heavy tanks

### アキリーズ 対戦車自走砲

第二次大戦中、アメリカは戦場から遠く離れていたことと、豊富な国家資源によって連合軍の兵器庫として機能し、 lend-lease により武器を供給した。それによりアメリカ製の兵器は、大戦中ほとんどすべての戦場において使用されたのであった。

1943年、アメリカはM10駆逐戦車の、イギリス及び英連邦国への供給を開始し、その数量は、合計1648輦に達した。供給されたこれらのM10駆逐戦車は、生産ロットと砲塔のデザインによりイギリス軍から、"ウルバリン I"と"ウルバリン II"の名称が与えられ、対戦車自走砲としてそれぞれ歩兵部隊へ配備された。

M10駆逐戦車の砲塔は、装備される砲が改良されたり、新しいタイプに変更されることがあることを見込んで、簡単な部品の交換や修整でそれが行えるように始めから考慮して設計されていた。イギリス軍は、"ウルバリン"に装備されていた76.2mm砲を、強力な17ポンドMk.V砲に換装することを計画し、ほとんどすべての"ウルバリン"にこの改造が施されることとなった。17ポンドMk.V砲は、もとの76.2mm砲に比べると砲身が細身であったため、防盾に隙間を埋めるための装甲板が新たに溶接された。また照準器の位置の違いにより、もとの照準孔は大きくする必要があった。このようにして、イギリス製の装備を収納するべく砲塔部分の改装をうけた"ウルバリン"は、ギリシャ神話に登場する勇士の名にちなんで、"アキリーズ IC" "アキリーズ IIC"と名付けられたのだ。"アキリーズ"の装備した17ポンドMk.V砲は俯仰角-5度~+20度と、もとのM10駆逐戦車の俯仰角-10度~+30度よりも若干減少しており、搭載弾数も54発から50発に減少している。しかし、17ポンド砲は、M10駆逐戦車の76.2mm砲に比較して初速、貫徹力ともにはるかに強力であり、"アキリーズ"はドイツ軍の重戦車を撃破するのに十分な威力を持っていたのである。

## 英國"阿基里斯"反戰車自走砲

二次大戰時屬於同盟國陣營中的美國由於其本土遠離戰火,加上豐厚的國力,使其彷彿成為盟國間的兵工廠,並藉由"租借法案"的擬訂,於參戰前及戰時提供大量武器軍援各個盟邦,使得美製武器出現在二次大戰的許多戰線上

1943年起美國陸續提供了種總數為1648輛的M10驅逐戰車給與英國及其國協成員,英國依其前後期生產砲塔的不同,分別將其命名為"Wolverines I"及"Wolverines II"編制於步兵部隊做為反戰車自走砲之用,由於M10在設計之初即考慮未來更換不同火砲時作業的簡易性,英國便計劃以本國生產的MK5 17磅砲來取代原本的M7 76.2公釐砲,大部份的Wolverines都接受了這次的修改,因為17磅砲的砲管較原本的M7砲管為細,使得砲盾上必須額外焊接一塊鑄造裝甲來填補出現的縫隙,同時由於瞄準鏡的改變,砲盾上的瞻視孔也相應加大,車身內部也重新規劃以適應英國設備及機組的需要,改造後的自走砲以希臘神話中號稱除腳底外全身刀槍不入的神祇Achilles來命名,同樣依前後期砲塔的不同分別為"Achilles IC"及"Achilles IIC"而以後者佔了其中的絕大多數

相較於美國的M10驅逐戰車,Achilles的主砲俯仰角由原來的-10度/+30度縮減為-5度/+20度,搭載彈藥數目也由54枚下降為50枚,但卻因裝藥量增加而使其威力凌駕於M10之上,成為能與德國重型戰車周旋的利器

### Illustration:圖示說明



### Method For Applying Decals:

### 水貼紙使用說明:

1. Clean Model Surface With Wet Cloth.
2. Cut Out Of Decal Sheet And Dip Them In 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.

- 1.將模型表面擦乾淨
- 2.將貼紙剪下泡入清水中約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

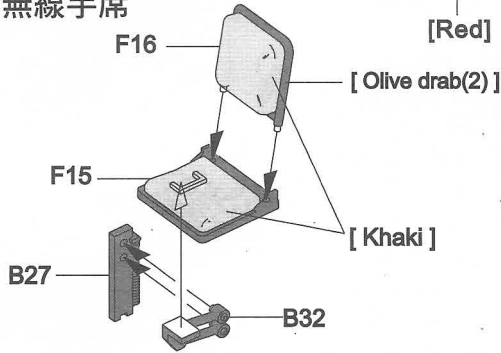
### Color list: 塗料表

| Color         | Brand | Gunze Sangyo |           |                 | Humbrol | Revell | Life Color |
|---------------|-------|--------------|-----------|-----------------|---------|--------|------------|
|               |       | Hobby Color  | Mr. Color | Mr. Color Spray |         |        |            |
| Olive drab(2) | 橄欖綠   | H-78         | C-38      | J-38            | 66      | 46     | UA106      |
| Khaki green   | 卡其綠   | H-80         | C-54      |                 |         |        |            |
| Steel         | 黑鐵    | H-18         | C-28      | J-28            | 53      | 91     | LC76       |
| Tire black    | 輪胎黑   | H-77         | C-33+C-62 |                 | 85      | 302    |            |
| Flat black    | 消光黑   | H-12         | C-33      | J-33            | 33      | 08     | LC02       |
| Flat white    | 消光白   | H-11         | C-62      | J-62            | 34      | 05     | LC01       |
| Red           | 紅     | H-3          | C-3       | J-3             | 19      | 31     | LC56       |
| Bright blue   | 寶藍    | H-15         | C-65      | J-65            | 14      | 51     | LC60       |
| Red brown     | 紅褐    | H-47         | C-41      | J-44            | 160     | 383    |            |
| Silver        | 銀     | H-8          | C-8       | J-8             | 11      | 90     | LC74       |
| Khaki         | 卡其    | H-81         | C-55      |                 | 159     |        |            |
| Brass         | 黃銅    | H-9          | C-9       | J-9             | 54      | 92     | LC75       |

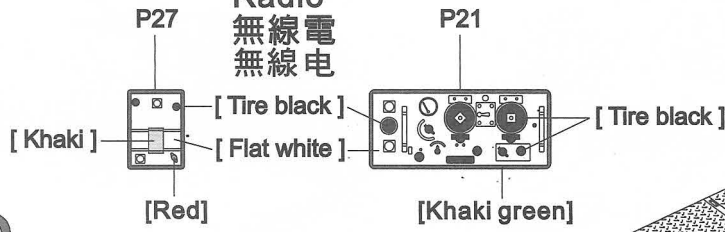
# 1

## Interior 車身内部

### Radio's Seat 無線電手席 無線手席

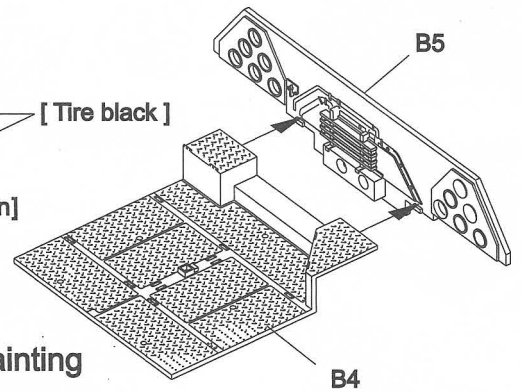


### Radio 無線電 無線電

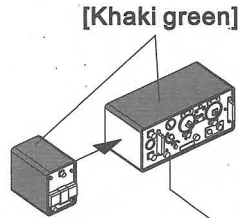
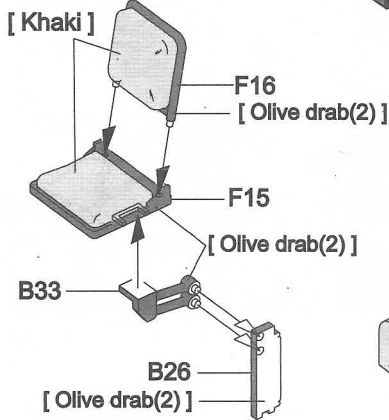


### Interior painting 内部塗装 室内の塗装

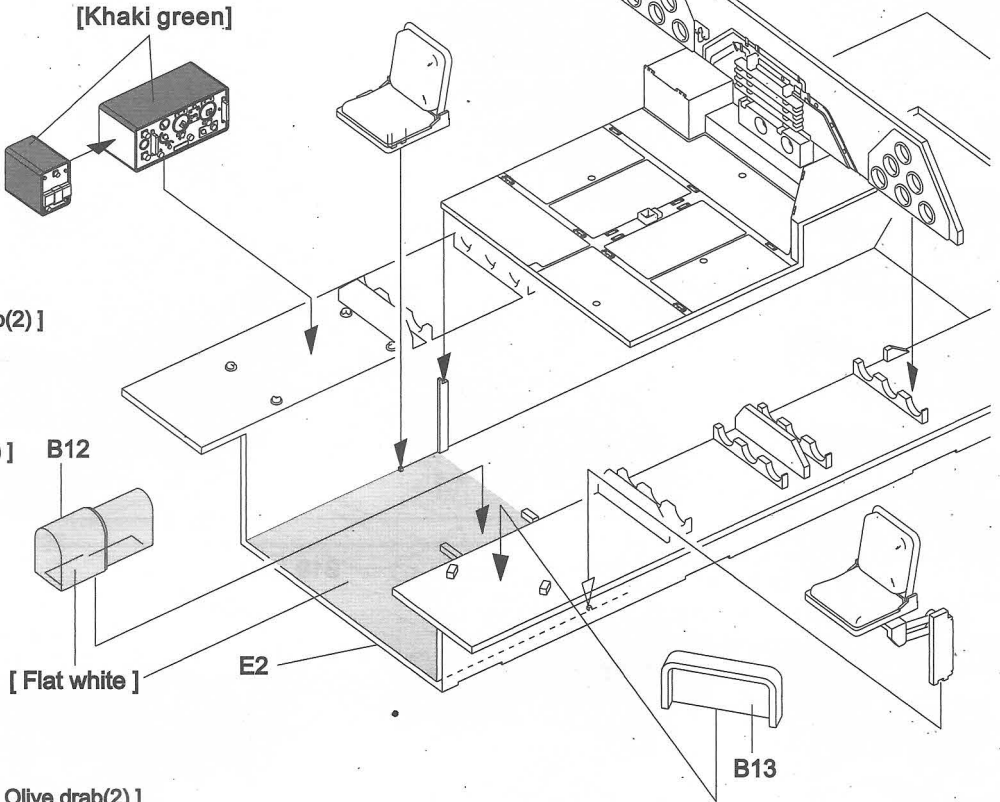
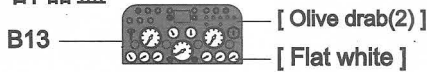
[Olive drab(2)]



### Driver's Seat 駕駛席 運転席

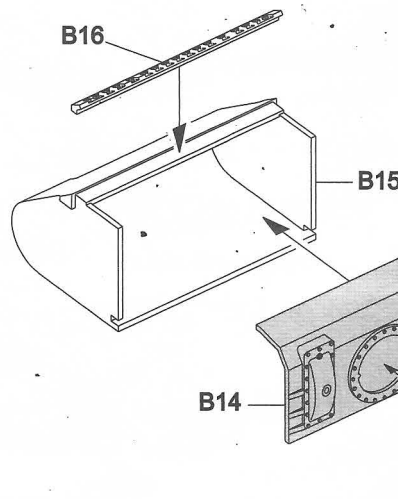
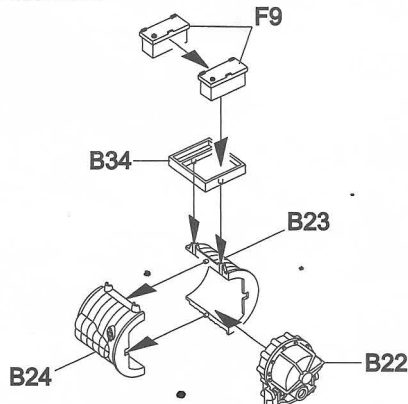


### Instrument panel 儀錶板 計器盤

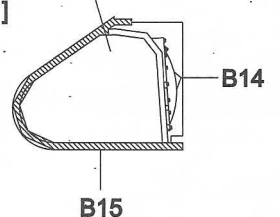


# 2

## Transmission 變速箱 トランスミッション



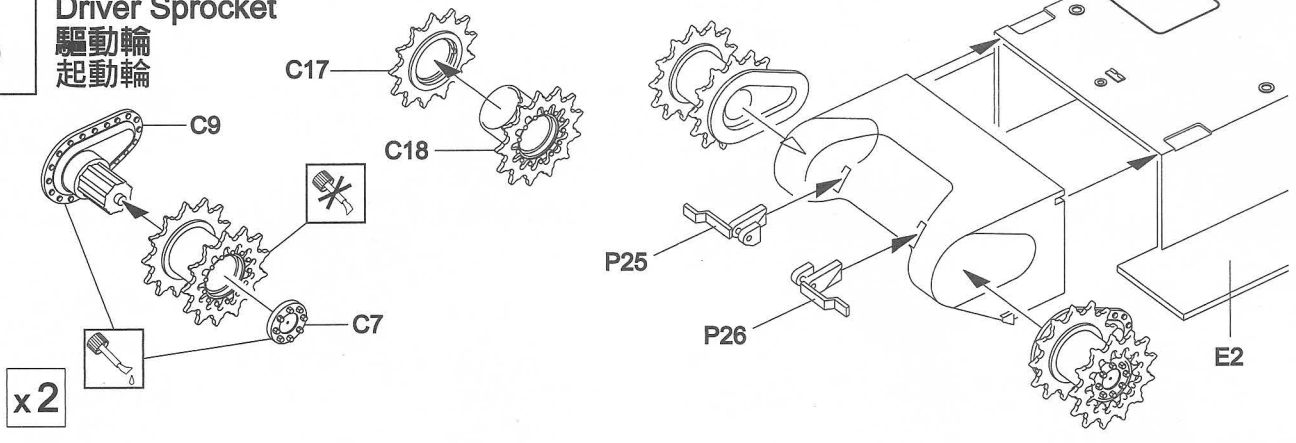
### Diagram of relative location 相關位置參考圖 位置關係圖



3

Driver Sprocket

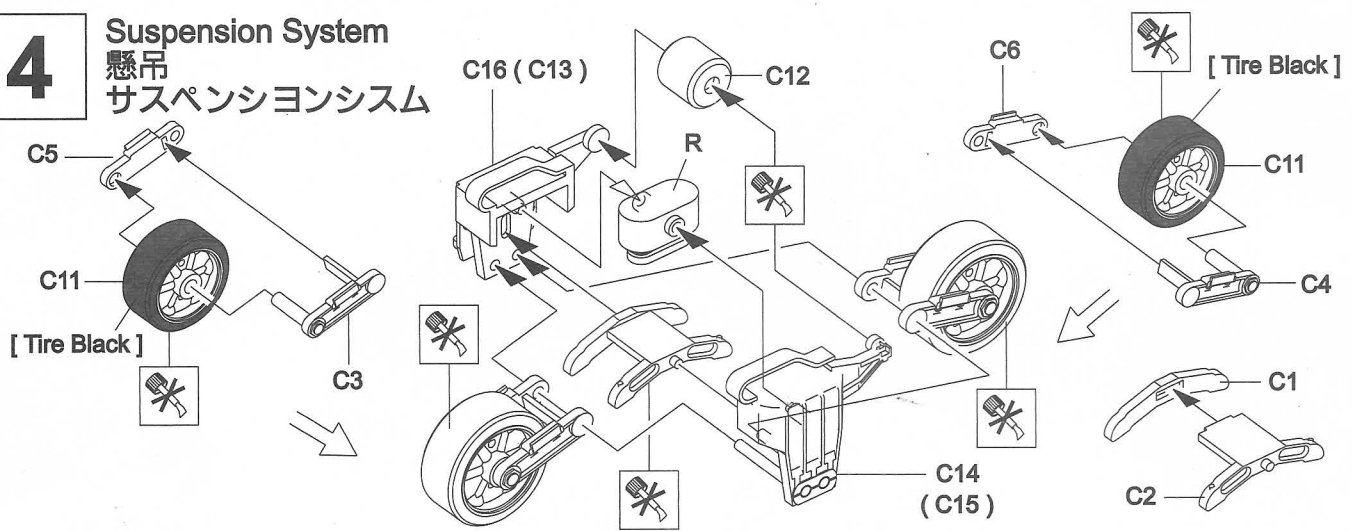
驅動輪  
起動輪



4

Suspension System

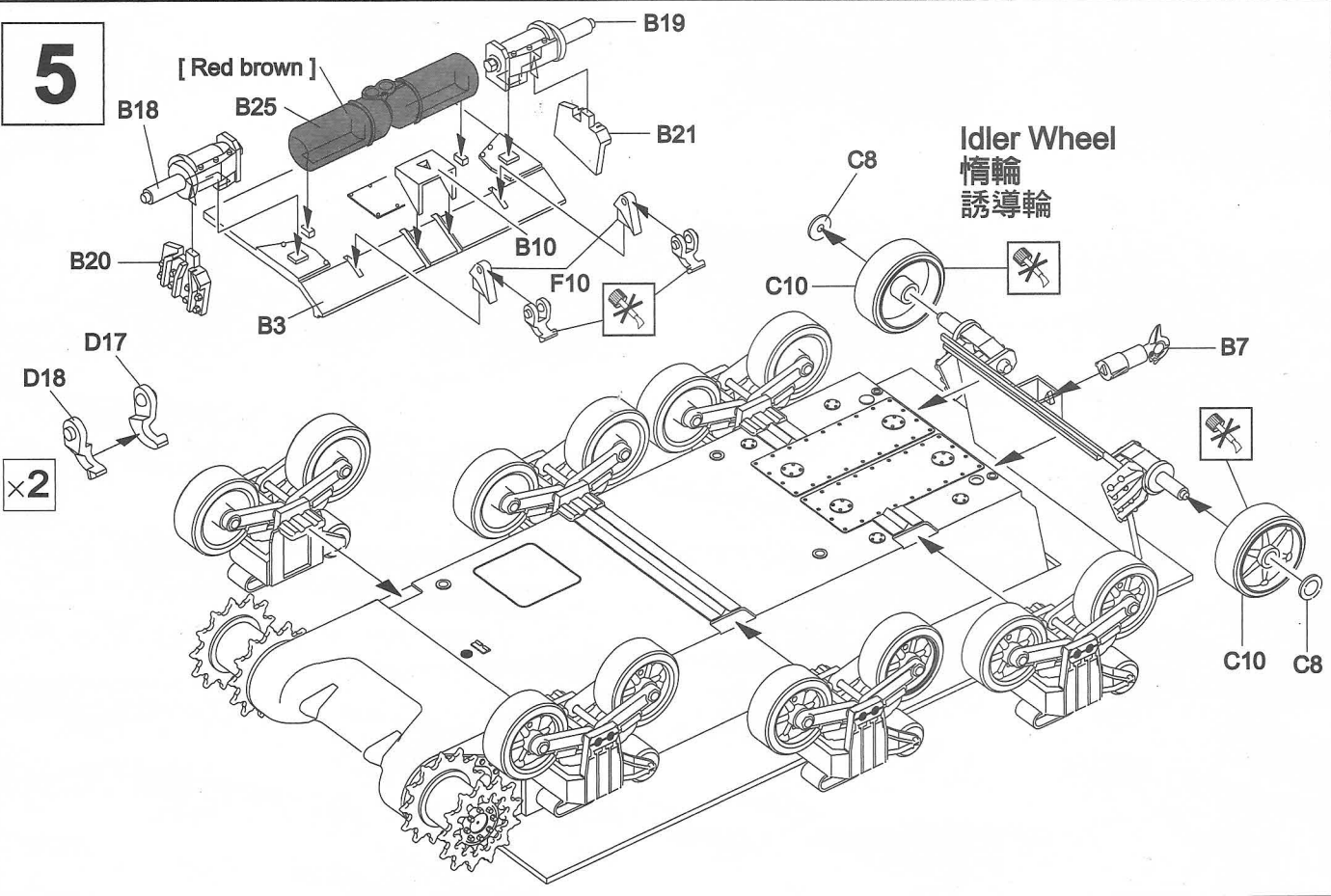
懸吊  
サスペンションシステム



5

Idler Wheel

惰輪  
誘導輪



6

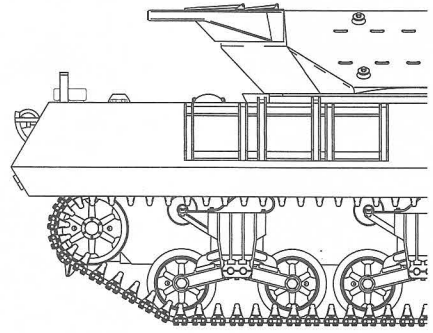
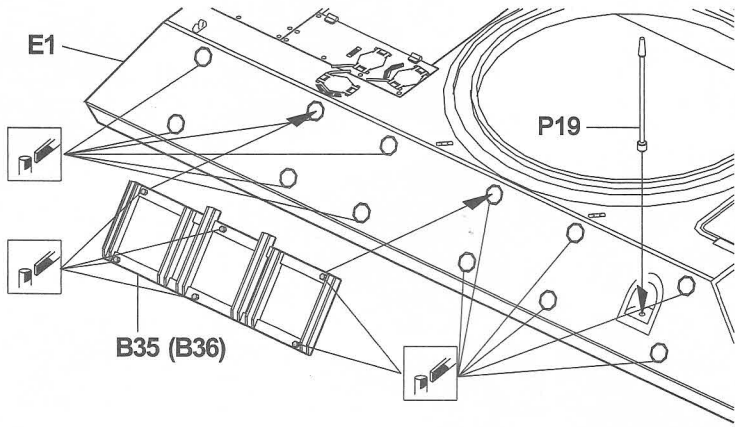


Diagram of relative location  
 相關位置參考圖  
 位置關係圖

<< Two side agglutinate >>  
 <<兩側黏著>> <<左右同じように組み立てます>>



<<Canadian Type>>  
 <<加拿大軍式様>>  
 <<カナダ軍仕様>>

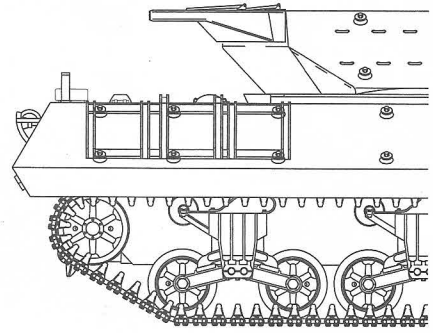
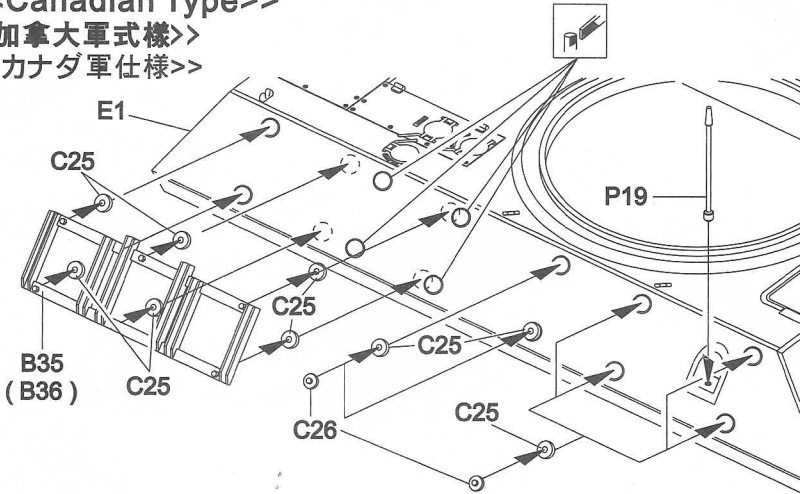
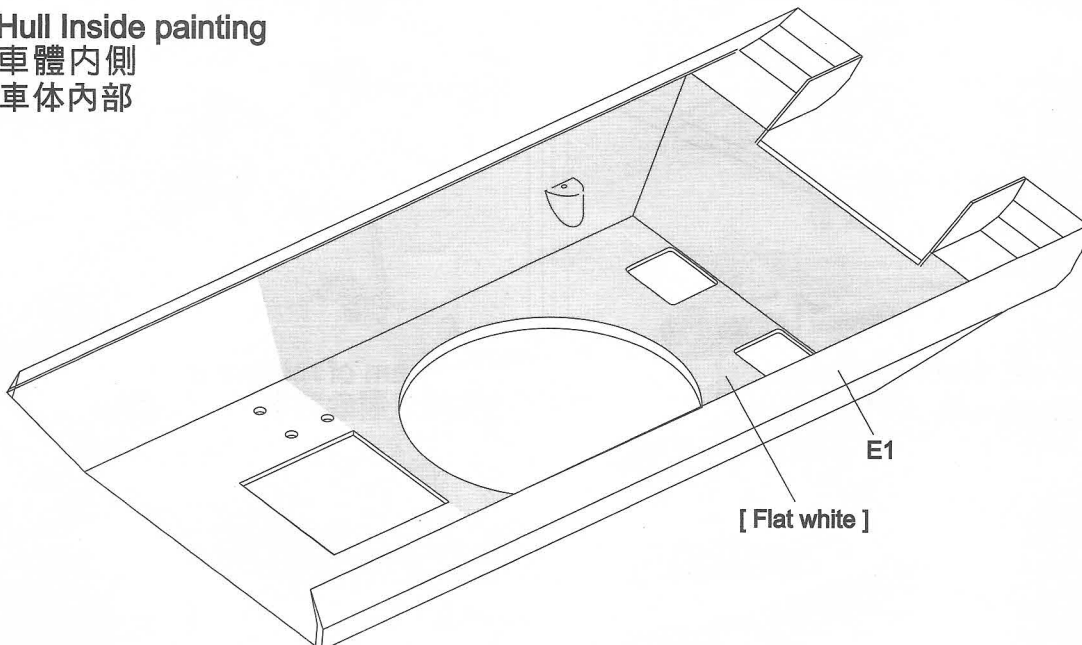


Diagram of relative location  
 相關位置參考圖  
 位置關係圖

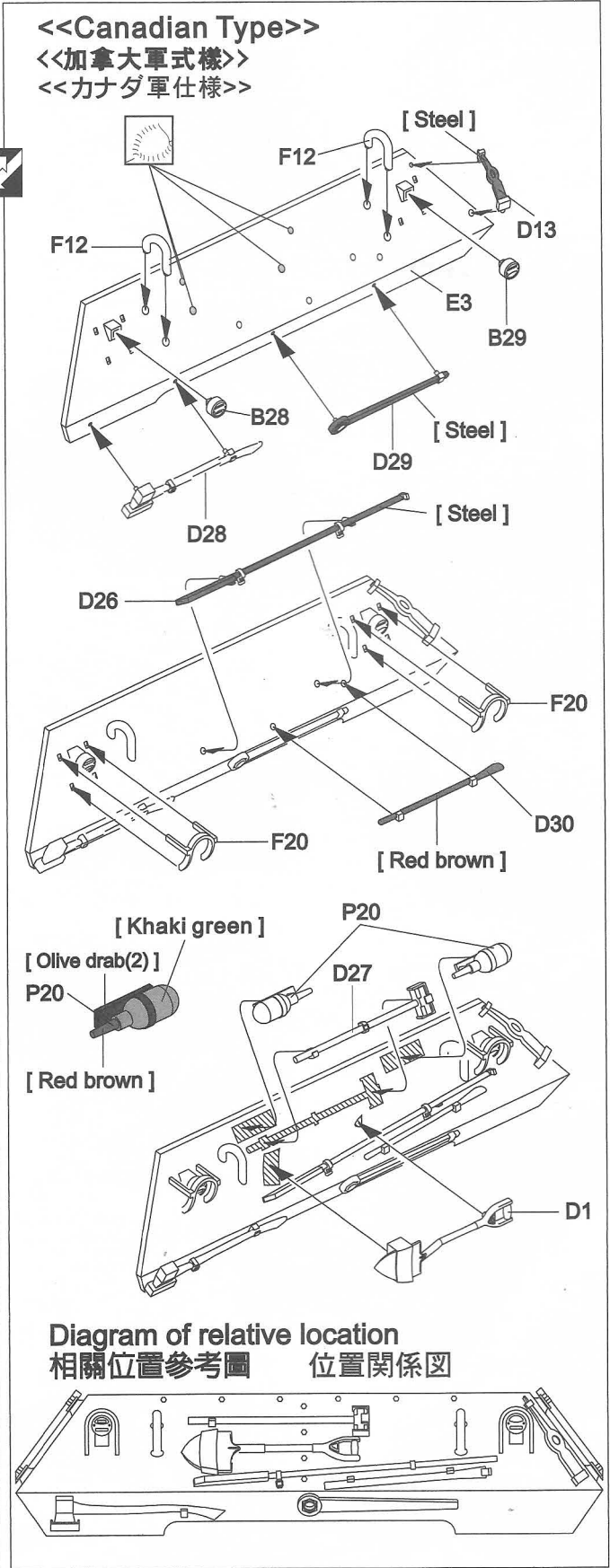
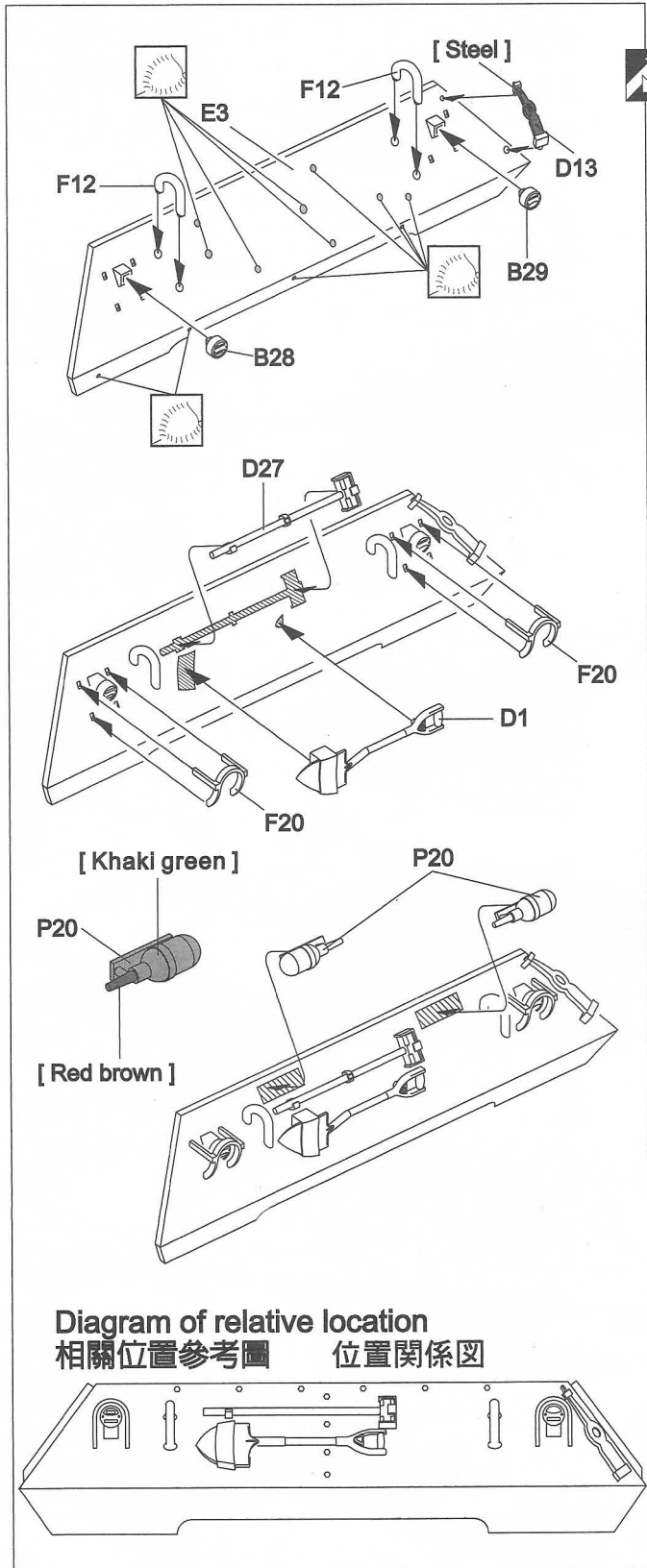
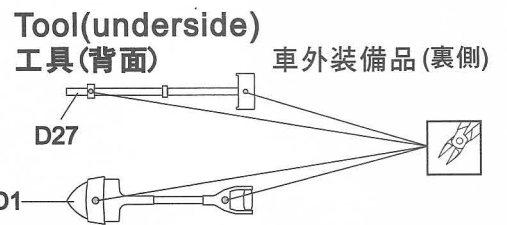
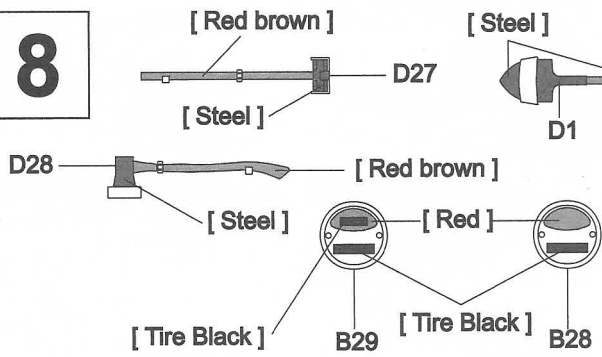
<< Two side agglutinate >>  
 <<兩側黏著>> <<左右同じように組み立てます>>

7

Hull Inside painting  
 車体内側  
 車体内部



8



9

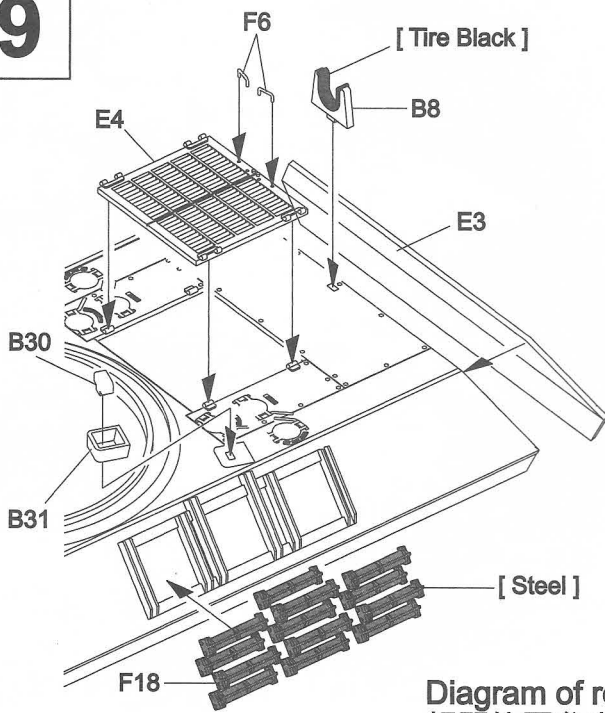


Diagram of relative location  
 相關位置參考圖  
 位置關係圖

<<Canadian Type>>  
 <<加拿大軍式樣>>  
 <<カナダ軍仕様>>

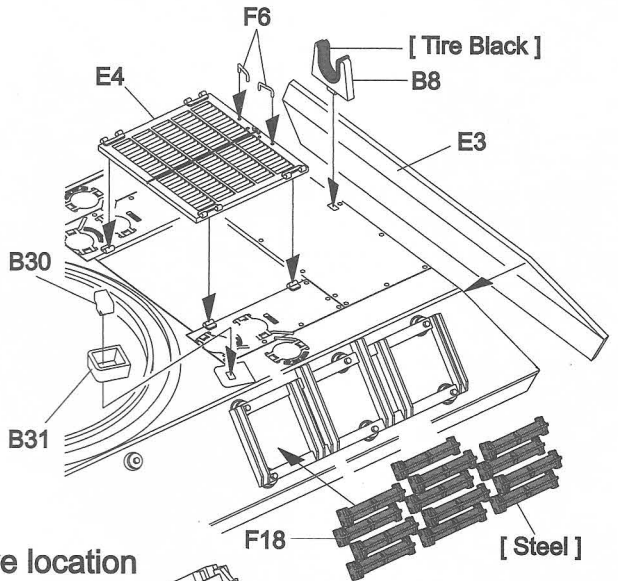


Diagram of relative location  
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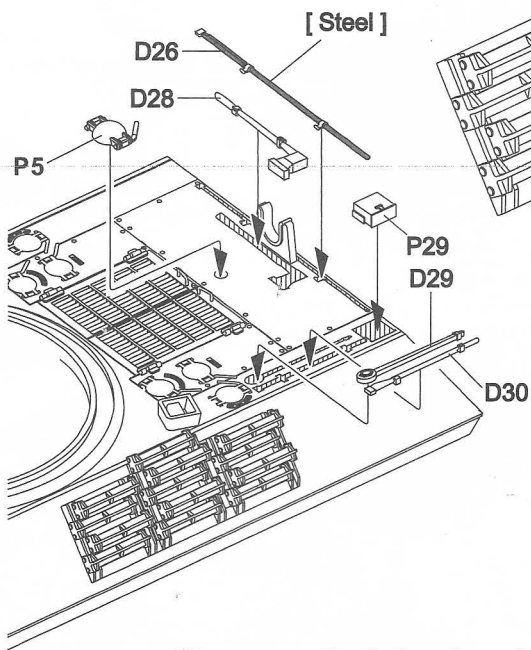


Diagram of relative location  
 相關位置參考圖  
 位置關係圖

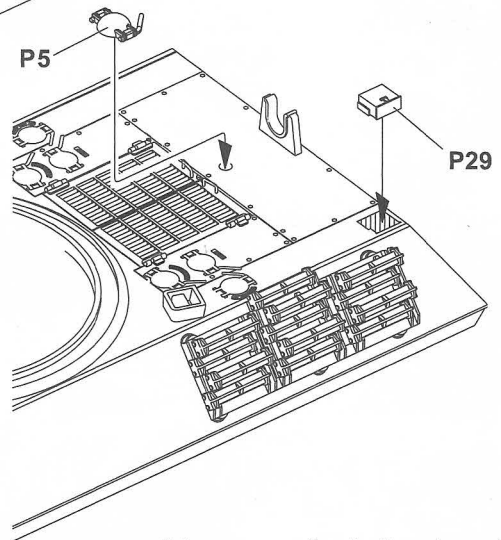
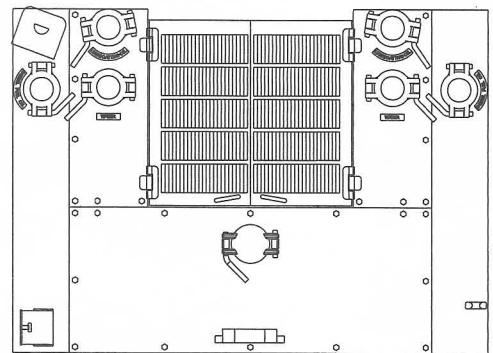
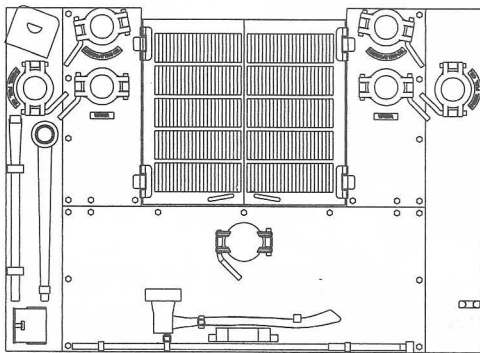
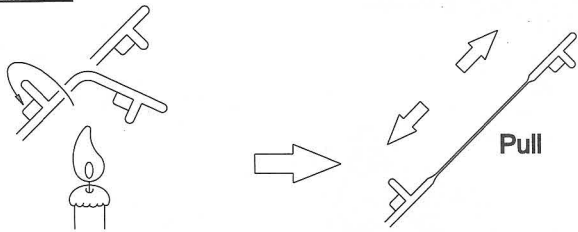


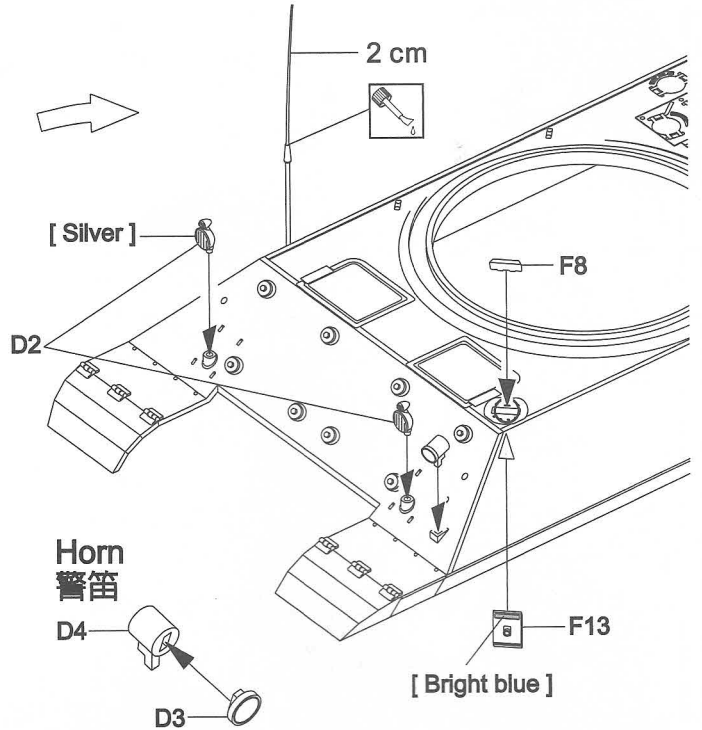
Diagram of relative location  
 相關位置參考圖  
 位置關係圖



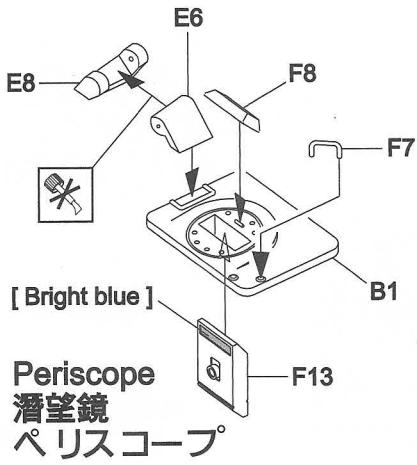
# 10



How to make antenna:  
天線の製作方法：  
アンテナの作り方：



Horn  
警笛



Periscope  
潛望鏡  
ペリスコープ

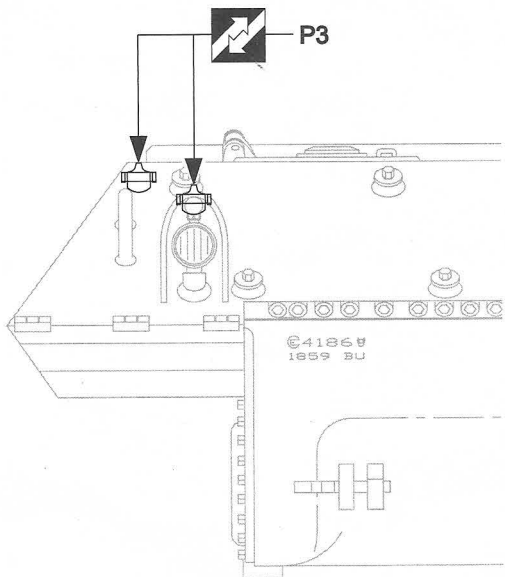
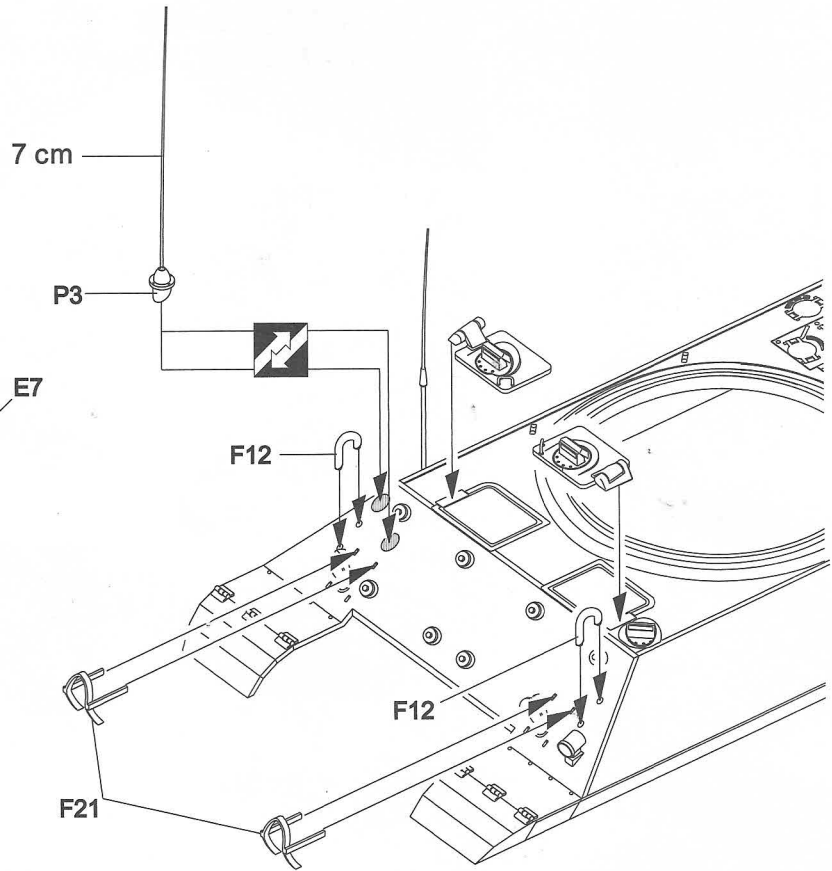
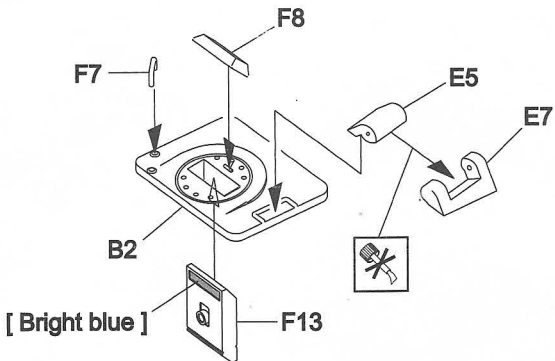
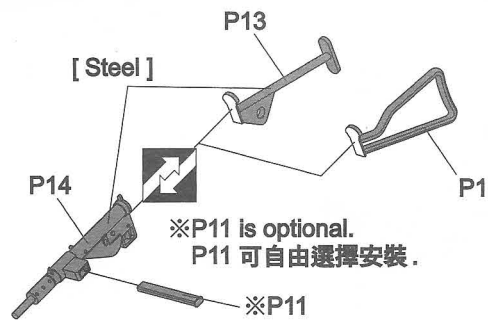
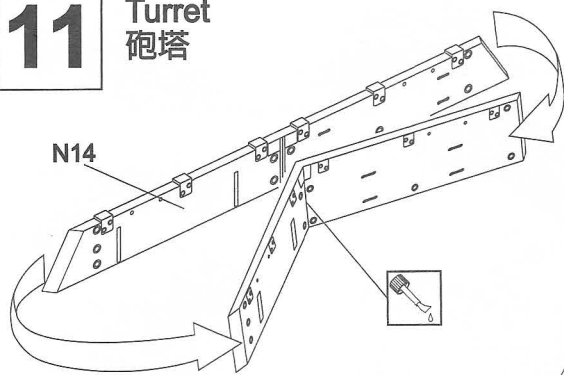


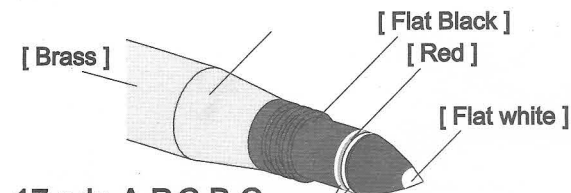
Diagram of relative location  
相關位置參考圖  
位置關係圖



# 11 Turret 砲塔



9mm Sten Submachine Gun  
司登 9 公厘衝鋒槍  
9mmサブマシンガンーステン



17 pdr. A.P.C.B.C.  
17 磅錐帽穿甲彈 [Flat white]  
17 ポンド仮帽付被帽徹甲彈

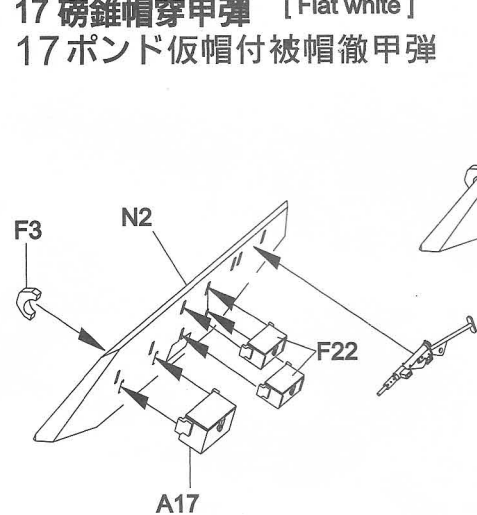
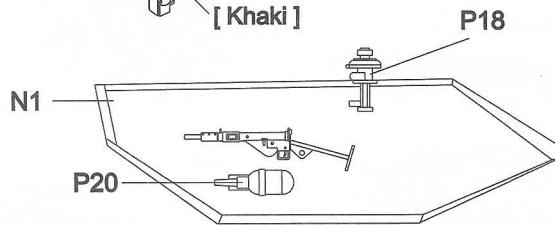
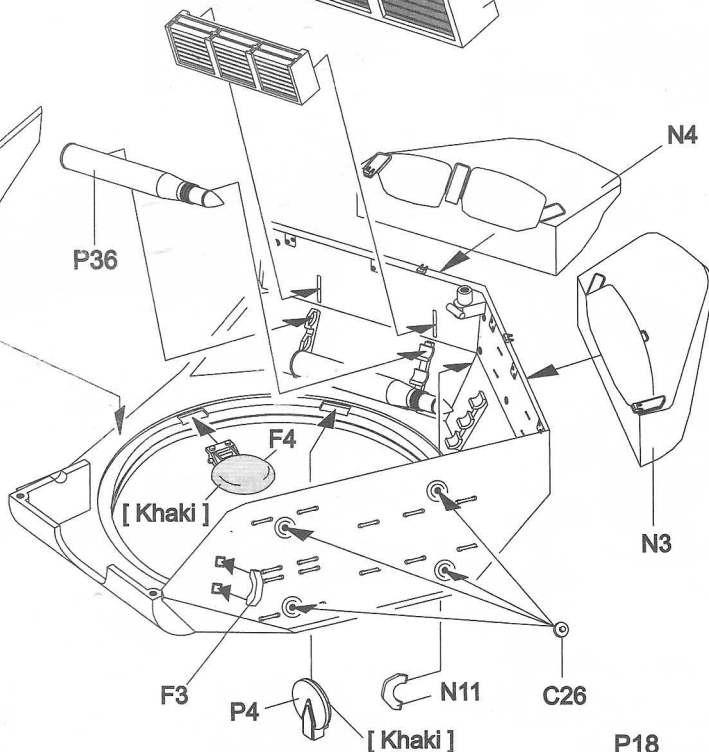
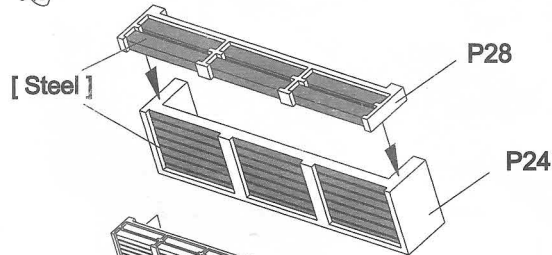
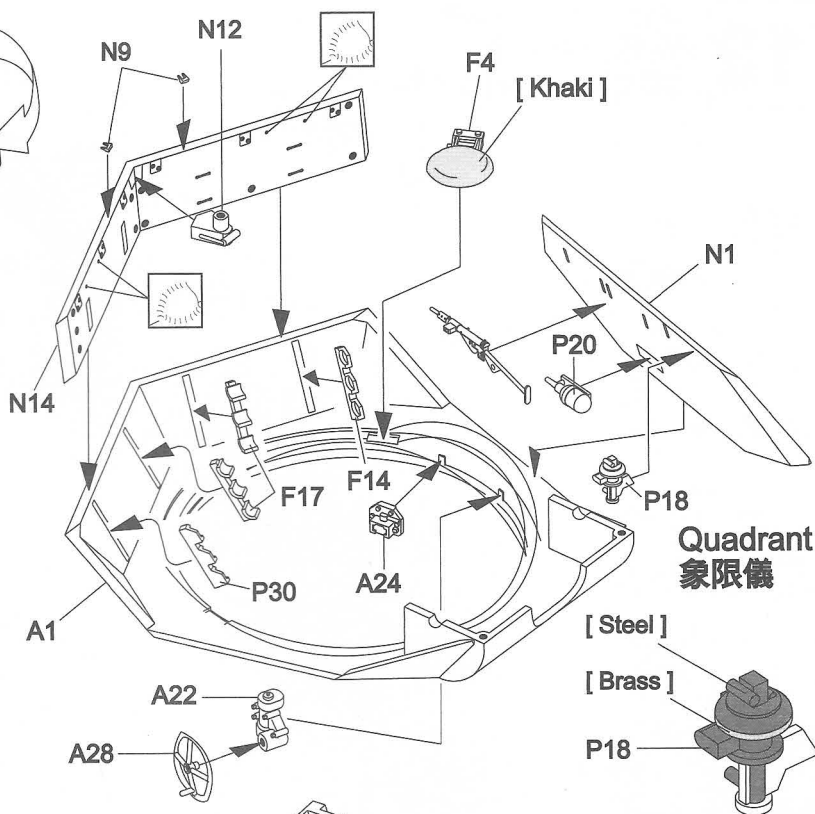
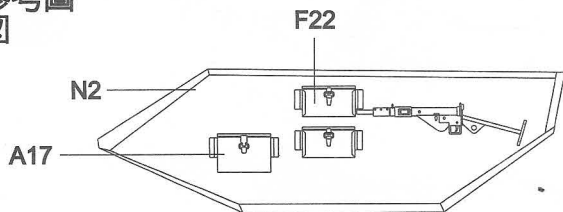
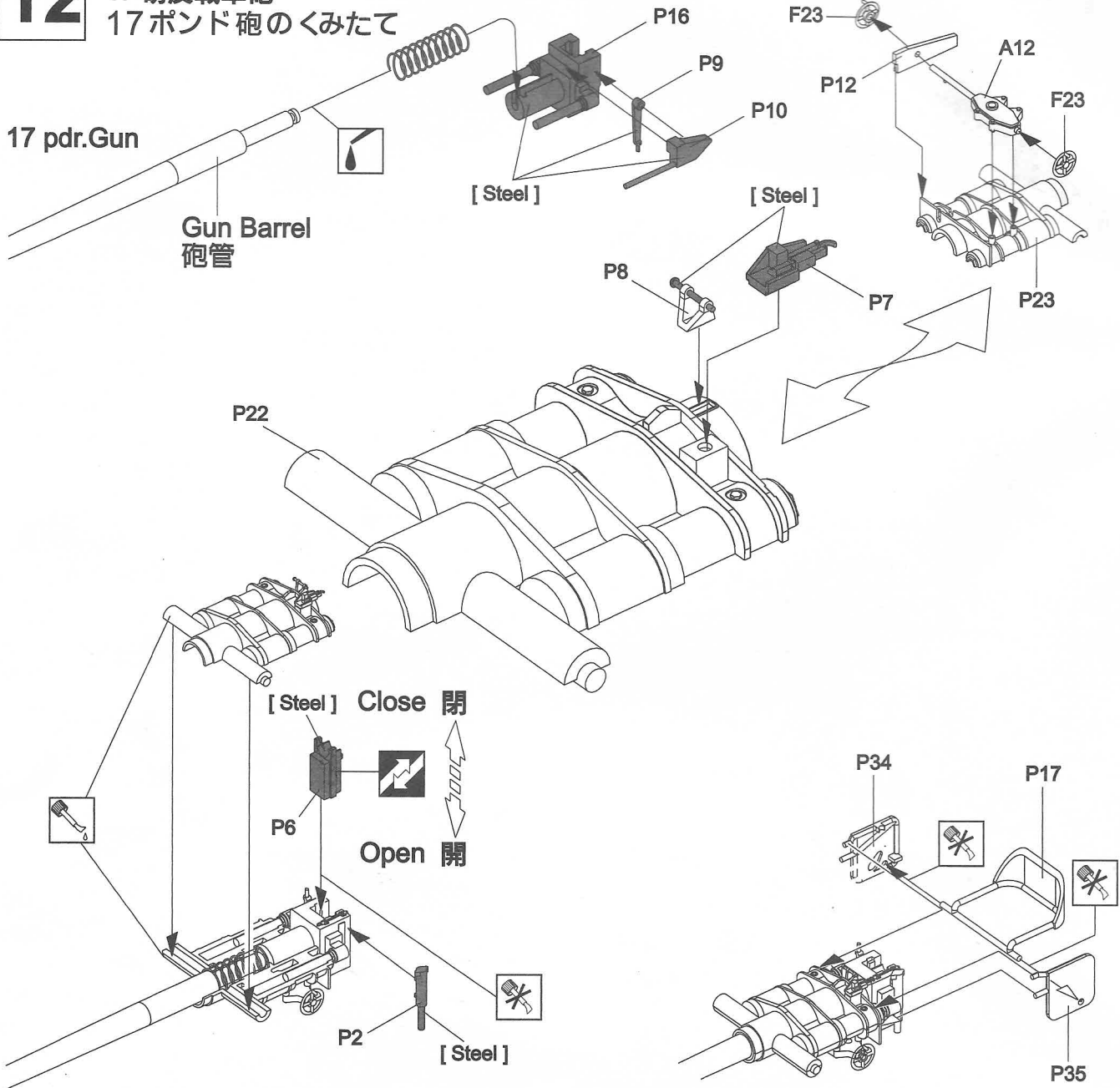


Diagram of relative location  
相關位置參考圖  
位置關係圖

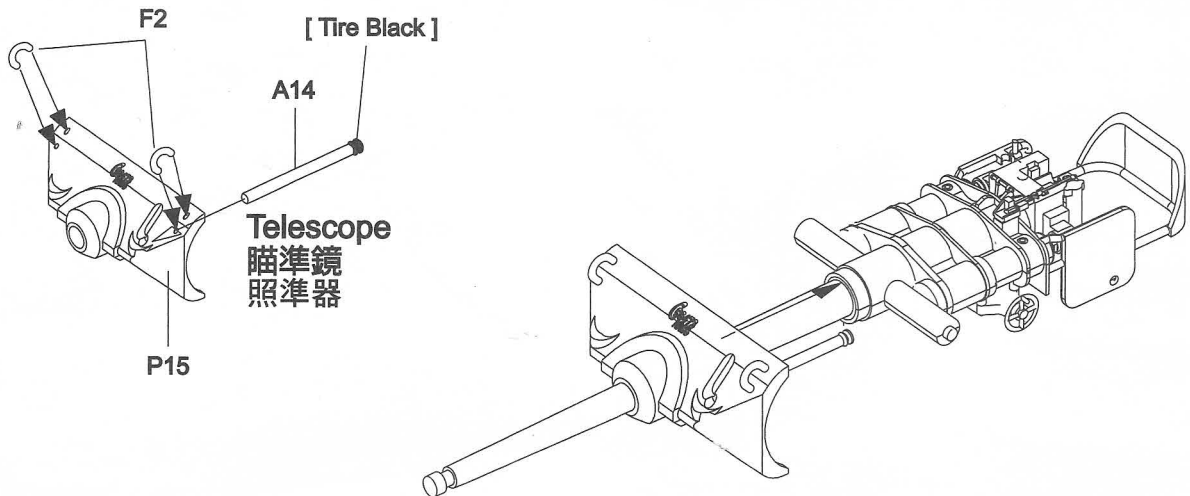


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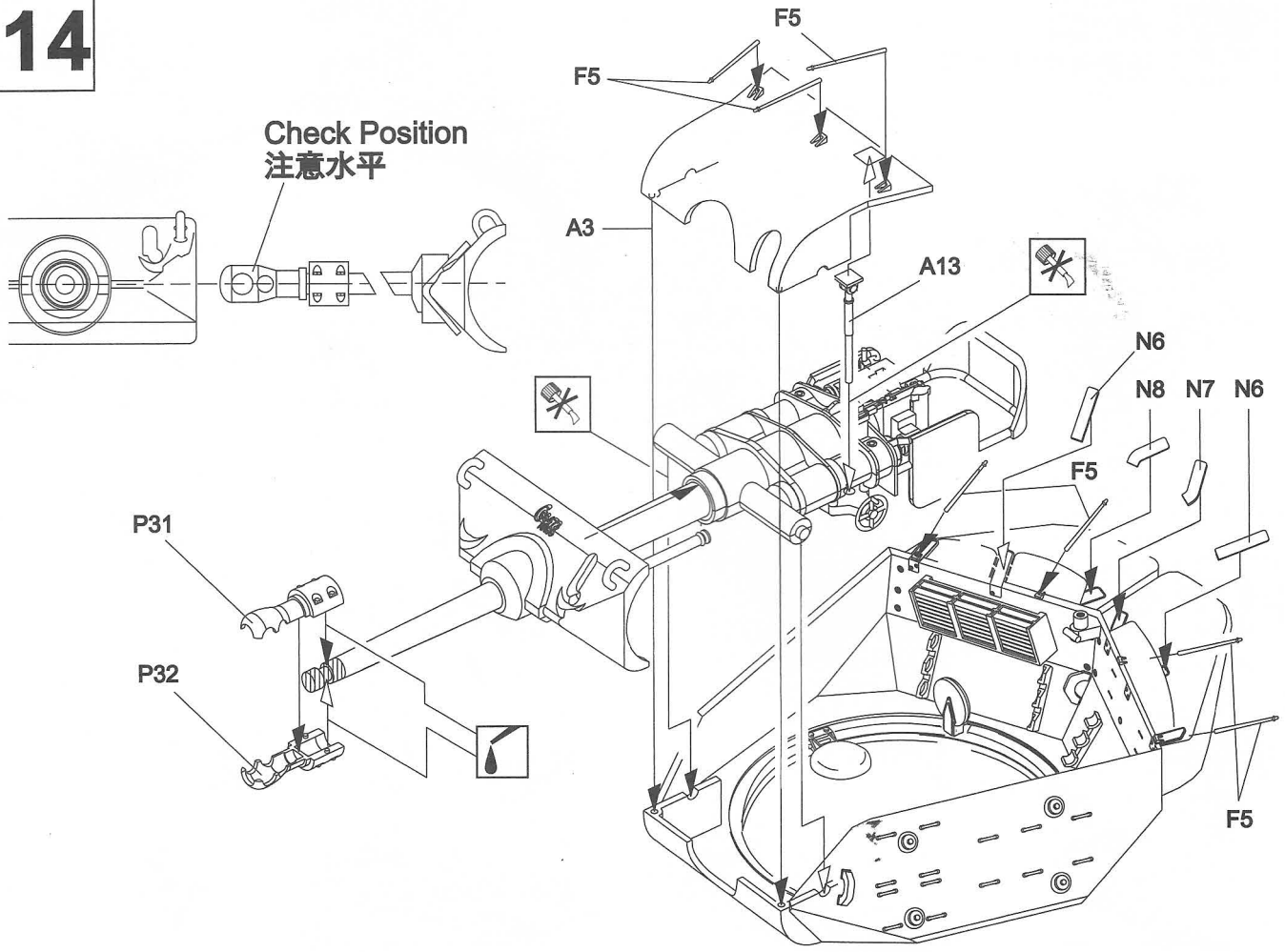
17 pdr. Anti-Tank Gun  
17 磅反戦車砲  
17 ポンド砲のくみたて



13

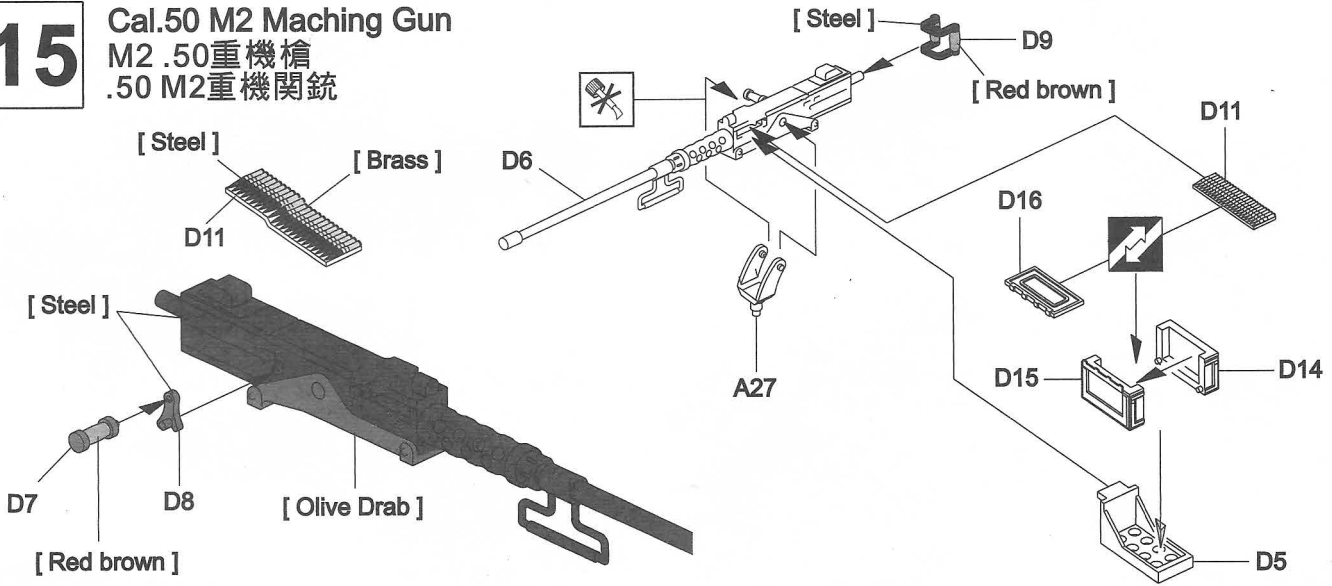


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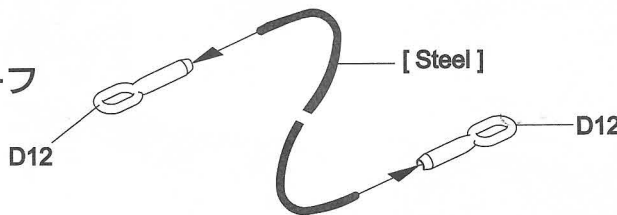
15

Cal.50 M2 Maching Gun  
M2 .50重機槍  
.50 M2重機関銃



16

Cable  
鋼纜  
ワイヤーローフ



Length = 18 cm  
繩索長 18 公分

# 17

## Spare Track Link 備用履帯 予備キヤタピラ

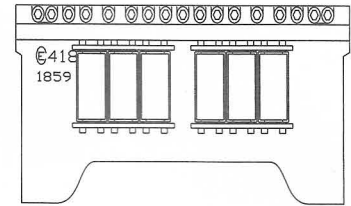
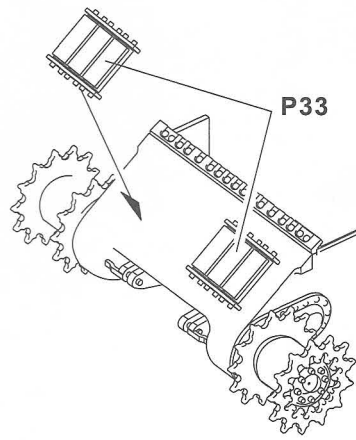
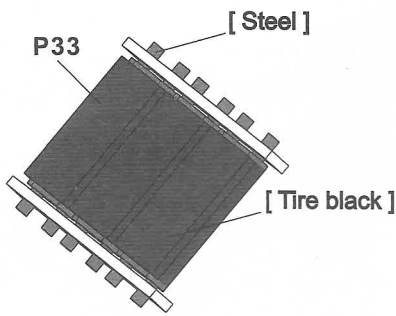
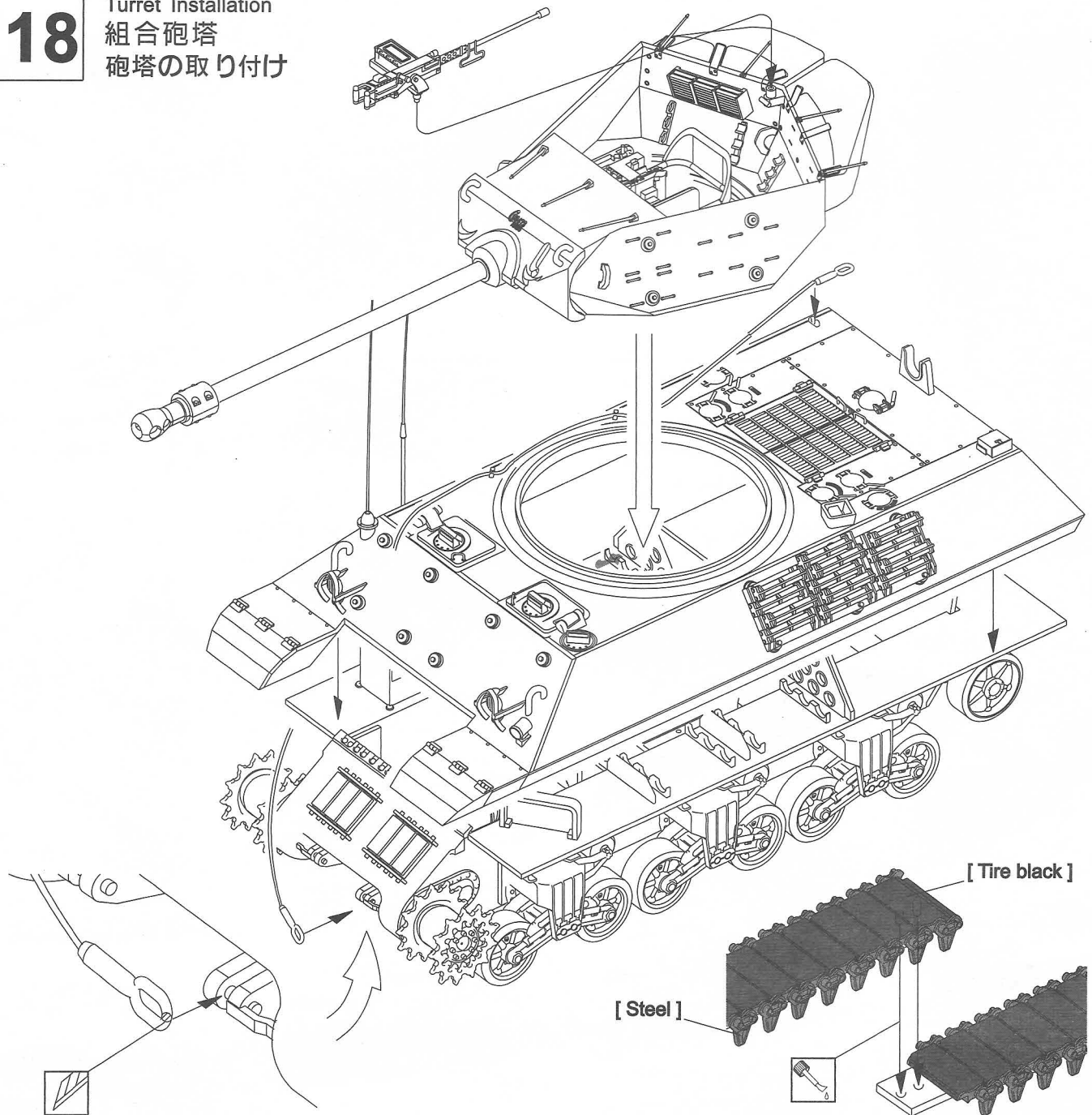


Diagram of relative location  
相關位置參考圖  
位置關係圖

# 18

## Turret Installation 組合砲塔 砲塔の取り付け

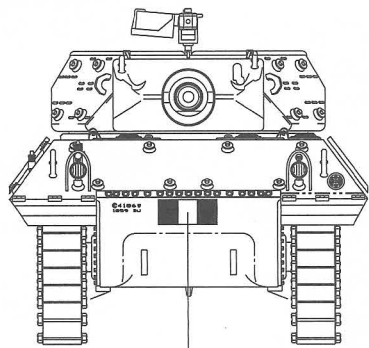


# Marking & Painting:

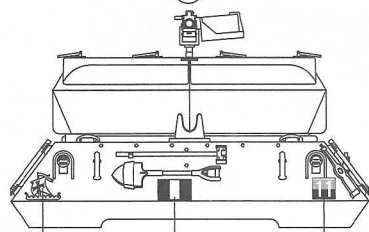
## 塗裝說明:

**A** 93rd Anti-Tank Reg. Royal Artillery, 5 Corps; Italy 1944.  
英國陸軍第五軍團直轄93反裝甲砲兵團. 1944年義大利.

 Body Color: Khaki Green



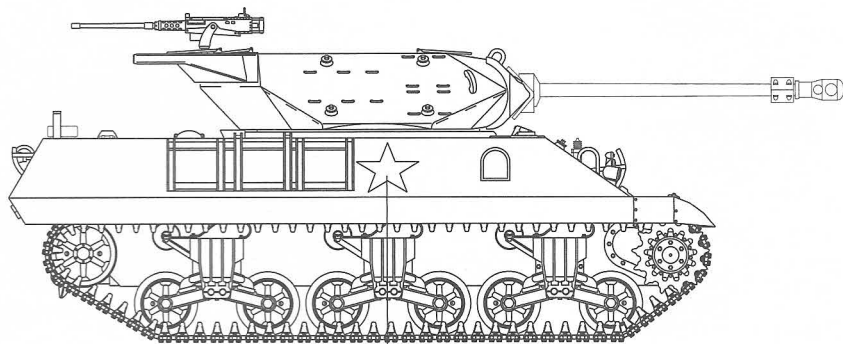
7



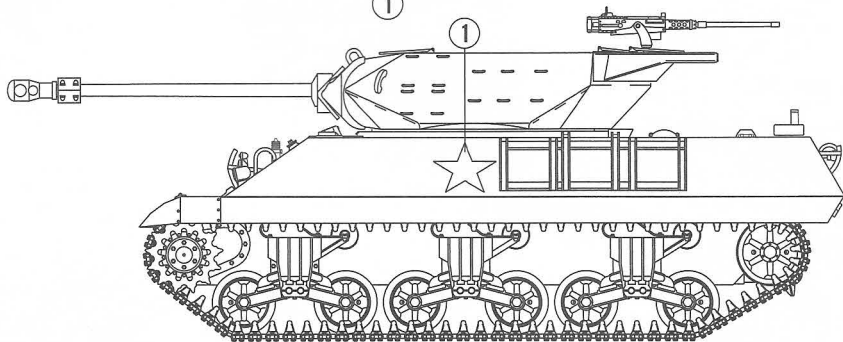
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8

16




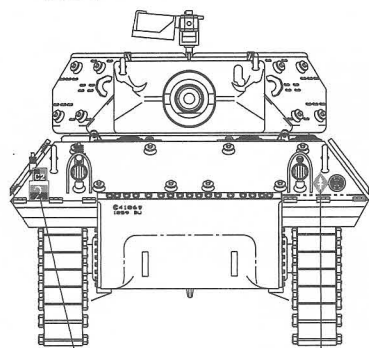
1



1

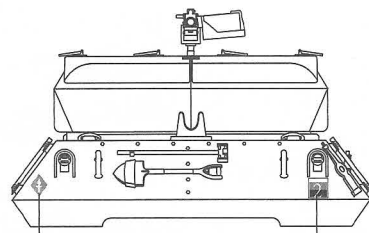
**B** British. 1st Army Corps. Normandy 1944.  
英國陸軍第一軍團. 1944年法國諾曼第.

 Body Color: Khaki Green



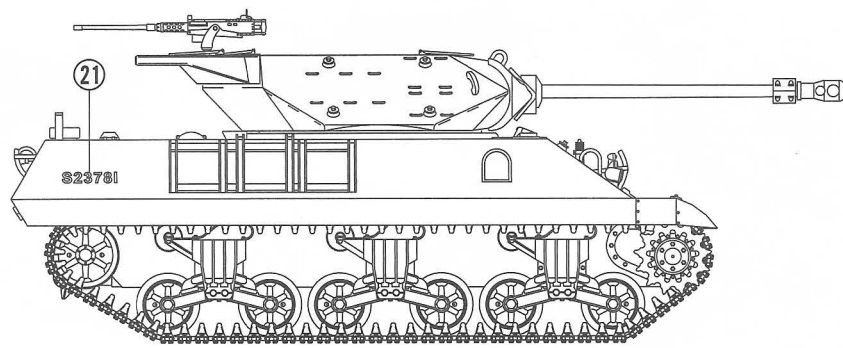
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6



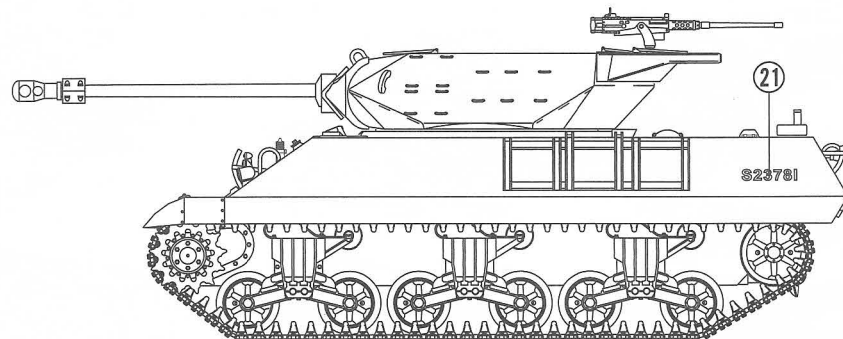
6

15



21

S23781

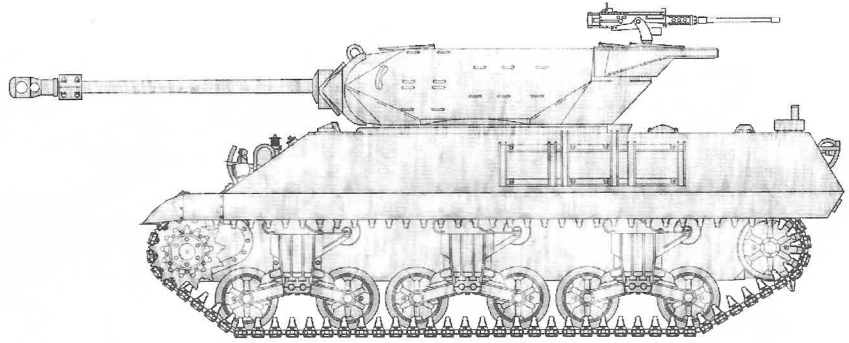
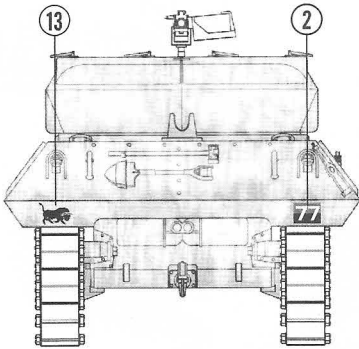
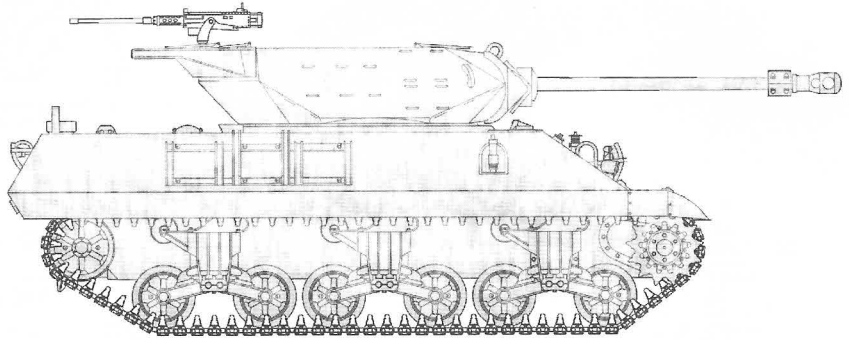
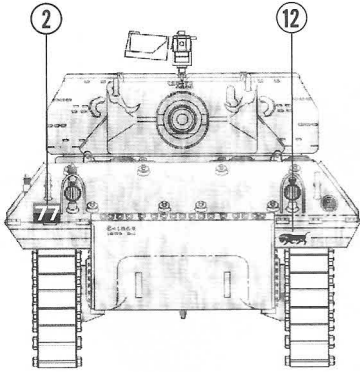


21

S23781

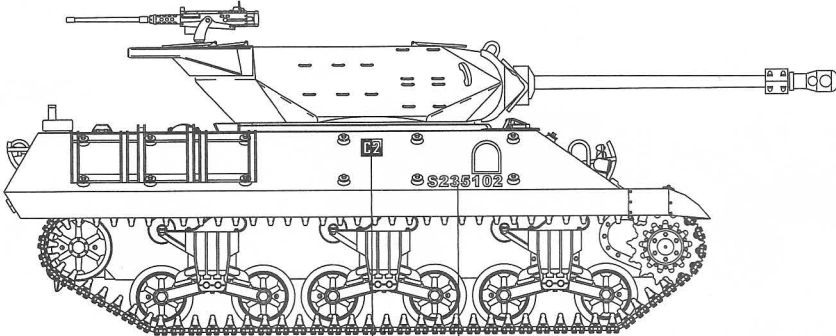
**C** 75th Anti-Tank Reg. Royal Artillery, 11th Armoured Division. Belgium 1944-45.  
英國陸軍第11裝甲師75反裝甲砲兵團, 1944-1945比利時

Body Color: Olive Drab(2)   
Flat White 

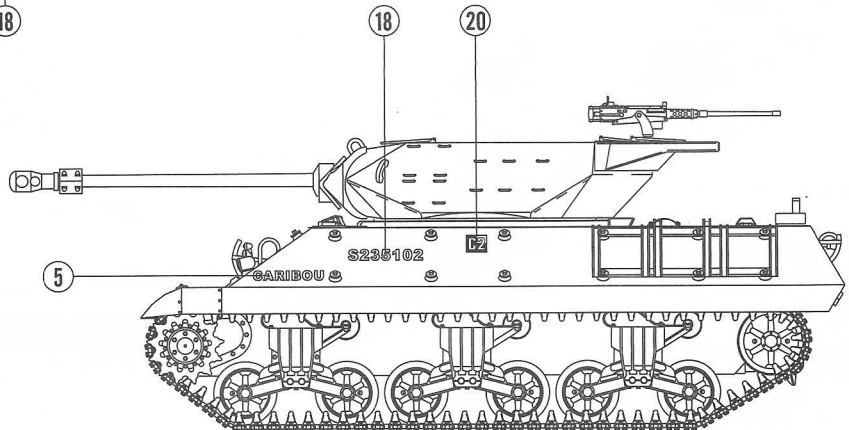


**D** Royal Canadian Artillery 4th Anti-Tank Regiment. Netherlands 1945.  
加拿大皇家砲兵第4反裝甲砲兵團, 1945年荷蘭。

Body Color: Olive Drab



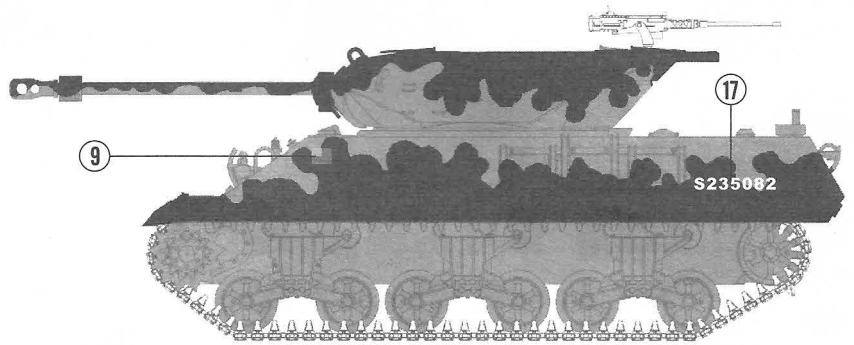
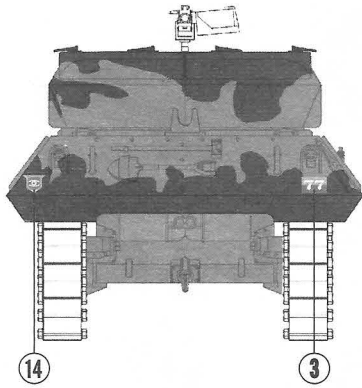
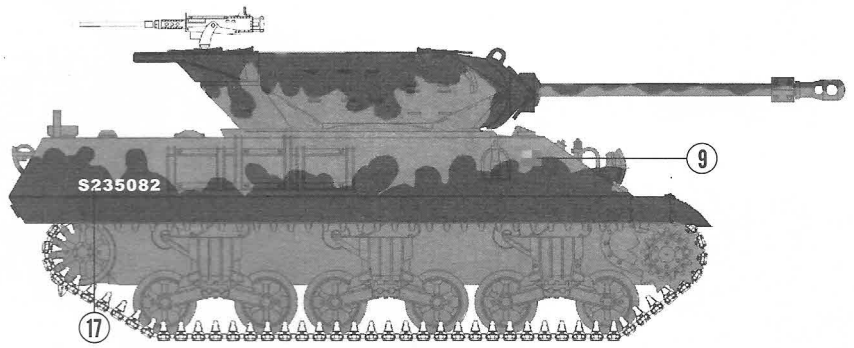
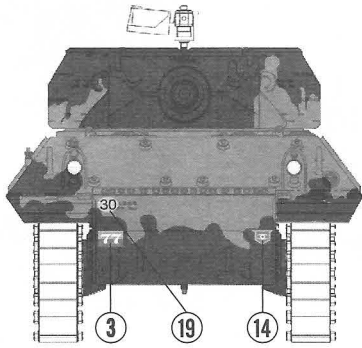
20 18



5

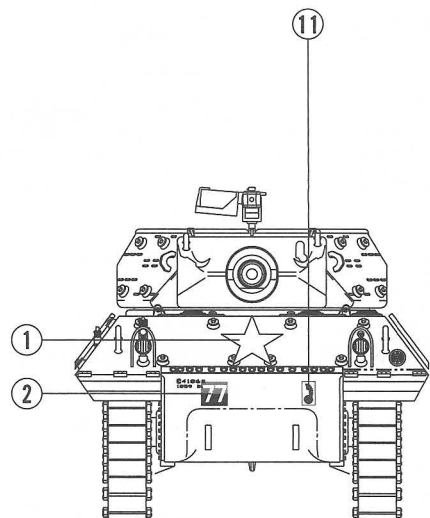
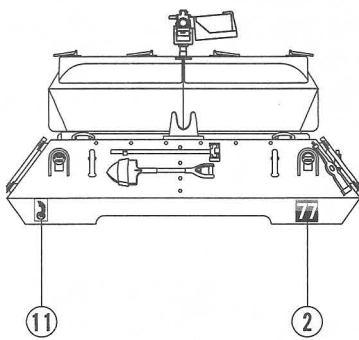
**E** 21th Anti-Tank Regiment Royal Artillery, Guards Armoured Division tank destroyer battalion. Netherlands 1944.  
英國陸軍禁衛裝甲師第21反裝甲砲兵團, 1944荷蘭

 Body Color: Khaki Green   
Flat Black 



**F** 1st Anti-Tank Regiment .Polish 1st Armoured Division  
Netherlands 1944.  
波蘭第1裝甲師第1反裝甲砲兵團. 1944年荷蘭.

 Body Color: Khaki Green



# PARTS LIST 零件表

Parts :

|           |           |           |
|-----------|-----------|-----------|
| (A) ——— 1 | (D) ——— 1 | (J) ——— 1 |
| (B) ——— 1 | (E) ——— 1 | (N) ——— 1 |
| (C) ——— 2 | (F) ——— 2 | (P) ——— 1 |
|           | (H) ——— 1 | (R) ——— 1 |
|           | (I) ——— 1 | (T) ——— 2 |

**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.

限台灣地區使用 For Taiwanese use only!

總代理：戰鷹企業 客服部收 本公司將盡速為您處理  
請將本表與該部品相同金額之郵政匯票一同寄至

**AGV CLUB** AF 35039 Parts Replacement Form

|                                  |                                  |
|----------------------------------|----------------------------------|
| <input type="checkbox"/> A parts | <input type="checkbox"/> I parts |
| <input type="checkbox"/> B parts | <input type="checkbox"/> J parts |
| <input type="checkbox"/> C parts | <input type="checkbox"/> N parts |
| <input type="checkbox"/> D parts | <input type="checkbox"/> P parts |
| <input type="checkbox"/> E parts | <input type="checkbox"/> R parts |
| <input type="checkbox"/> F parts | <input type="checkbox"/> T parts |
| <input type="checkbox"/> H parts |                                  |

Reason for replacement:  Missing  broken

Signature: \_\_\_\_\_

**AGV CLUB** AF 35039 零件補充申請表

申請人 姓名 地址 電話 : : :

|                                |          |
|--------------------------------|----------|
| <input type="checkbox"/> A部品零件 | NT\$ 200 |
| <input type="checkbox"/> B部品零件 | NT\$ 150 |
| <input type="checkbox"/> C部品零件 | NT\$ 250 |
| <input type="checkbox"/> D部品零件 | NT\$ 60  |
| <input type="checkbox"/> E部品零件 | NT\$ 280 |
| <input type="checkbox"/> F部品零件 | NT\$ 160 |
| <input type="checkbox"/> H部品零件 | NT\$ 30  |
| <input type="checkbox"/> I部品零件 | NT\$ 30  |
| <input type="checkbox"/> J部品零件 | NT\$ 120 |
| <input type="checkbox"/> N部品零件 | NT\$ 200 |
| <input type="checkbox"/> P部品零件 | NT\$ 200 |
| <input type="checkbox"/> R部品零件 | NT\$ 30  |
| <input type="checkbox"/> T部品零件 | NT\$ 160 |
| + 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

補充多餘零件

其他原因 \_\_\_\_\_