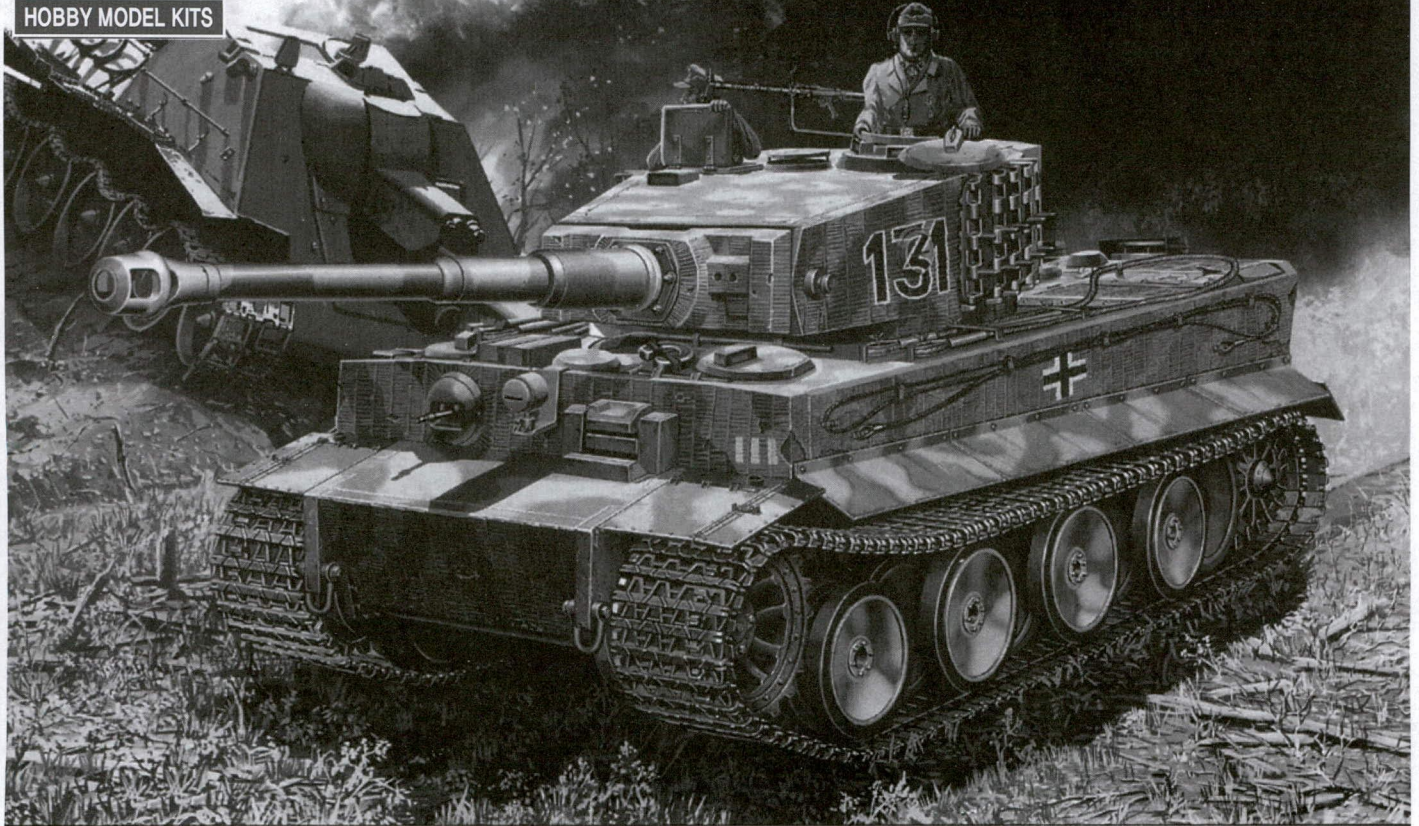


ACADEMY

HOBBY MODEL KITS

독일육군 중전차 타이거-1 중기형



# GERMAN HEAVY TANK TIGER-I MID PRODUCTION VERSION

1/35TH SCALE

## TECHNICAL SPECIFICATION

## 성능 및 제원

### WEIGHT

- Combat weight : 56.9 tons
- Transport weight : 44.6 tons

### DIMENSIONS

- Length overall : 8.24 m (27'-9")
- Hull length : 6.20 m (20'-8 1/2")
- Width : 3.07 m (12'-10")
- Height : 3.00 m (9'-10")

### TRACK WORK

- Type : Single line
- Centers : 2.82 m (9'-3 1/2")
- Width : 0.725 m (28 1/2")

### MAIN ARMAMENT

- 1 x 88 mm (3.46 ins.) KwK 36 L/56
- Traverse : 360 degrees
- Operation : 2 speed, hydraulic & hand
- Elevation : +17 degrees, - 6.5 degrees

### SECONDARY ARMAMENT

- 1 x 7.92 mm MG-34 co-axial
- 1 x 7.92 mm MG-34 bow
- 1 x 7.92 mm MG-34 anti-aircraft
- 1 x 9 mm MP-38/40
- 1 x 27 mm WALTHER signal pistol

### AMMUNITION

- 88 mm AP & HE : 92 rds.
- 7.92 mm : 5,700 rds. (38 belts 150 rds.)

### ENGINE

- MAYBACH HL-230-P45 V-12
- Cylinder Watercooled Gasoline of 23,880cc developing 694 bhp at 3,000 r.p.m.

### TRANSMISSION

- MAYBACH-OLVAR 40 12 16
- Preselective, 8 forward 4 reverse

### SUSPENSION

- Torsion bar, Hydraulic shock absorbers on front & rear axle, housed in hull.

### STEERING UNIT

- HENSCHEL L600C Regenerative controlled differential, hydraulic operated

### FUEL CAPACITY

- 534 liters (125 Imp.gals./141 U.S.gals.)
- Fuel consumption (100 km) : Road - 500 lts. Cross country - 900 lts.

### PERFORMANCE

- Max speed (Road) : 38 km/h (23 mph)
- Max speed (Cross country) : 20 km/h (12 mph)
- Range (Road) : 117 km (73 miles)
- Range (Cross country) : 67 km (42 miles)
- Forging depth : 1.2 m (3' - 11")
- Max gradient : 35 degrees (70 %)
- Trench crossing : 1.8 m (5' 11")

### ARMOR

- Type : Rolled homogenous plate interlocking stepped joints welded construction

### SIGHTING

- Main armament : 1 x TZF 9B binocular telescope
- Commander : 7 x vision periscopes in the cupola

### CREW

- 5 men - commander, gunner, loader, driver, radio operator/MG gunner

### PRODUCTION

- Manufacturer : HENSCHEL Werke.
- Almost 470 Mid versions were produced in July 1943 until Jan. 1944 (total amount : 1,354 vehicles)

### 중 량

- 전투 중량 : 56.9톤
- 차체 중량 : 44.6톤

### 길 이

- 전장 : 8.24 m
- 차체장 : 6.20 m
- 전폭 : 3.07 m
- 전고 : 3.00 m

### 캐터필러

- 형식 : 싱글핀 방식
- 중심선간 거리 : 2.82 m
- 폭 : 0.725 m

### 주무장

- 88 mm KwK 36 L/56 1문
- 선회각 : 360°
- 조작 : 2단 변속, 유압 및 수동식
- 앙각(仰角) : + 17°, - 6.5°

### 부무장

- 7.92 mm MG-34 동축 기관총 1정
- 7.92 mm MG-34 전면 기관총 1정
- 7.92 mm MG-34 대공 기관총 1정
- 9 mm MP-38/40 자동 소총 1정
- 27 mm 월터 신호 권총 1정

### 탄 약

- 88mm 성형작약탄 및 고폭탄 : 92발
- 7.92mm 5700발 (150발들이 탄띠38개)

### 엔 진

- 마이바하 HL-230-P45 12기통 가솔린 엔진, 배기량 23,880cc 3,000회전 694마력

### 트랜스미션

- 마이바하-올바 40 12 16 가변연동식, 전진 8단 - 후진 4단

### 서스펜션

- 토션바 형식, 차체 내측 전후 액셀에 스크 압소바 장착

### 조향장치

- 헨셀 L600C 디퍼런셜 복렬 유압 조종식 연료저지방
- 534 리터 (141 갤런)
- 연료 소모량 (100 km 기준) : 도로 - 500 리터, 야지 - 900 리터

### 기동성

- 최대속도(도로) : 38 km/h
- 최대속도(야지) : 20 km/h
- 행동거리(야지) : 67 km
- 도하수심 : 1.2 m
- 등판각도 : 35° (70 %)
- 초호(超壕)반경 : 1.8 m

### 장 갑

- 형식 : 주조 및 압연연질 방탄장갑
- 두께 : 26 ~ 110 mm

### 조준장치

- 주무장 : TZF 9B 쌍안테레스코프 1기
- 전차장 큐포라 : 잠망경 7기

### 승무원

- 5명 - 전차장, 포수, 조준수, 조종수, 무신수/기관총 시수

### 생 산

- 제조회사 : 헨셀 중기(重機)
- 1943년 7월부터 1944년 1월까지 약 470대 가량의 중기형 차량 생산. (총 생산수량 : 1,354대)

**<READ THIS BEFORE YOU BEGIN>**

- Study the instructions before assembling. - Check the fit of each piece before cementing into place.
- Do not use too much cement to join parts. - Never use cement or paint near open flame.
- Open a window or make area well ventilated when cement or paint is in use.
- Tear up and throw away the empty plastic bags to avoid danger of suffocation for little children.

**<ALLGEMEINE HINWEISE>**

- Die Anordnung der Bauteile ist aus den Zeichnungen der Anleitung ersichtlich.
- Die Teile vor dem Verkleben ungeleimt zusammenhalten, um ihren paßsitz zu prüfen.
- Klebstoff nicht zu dick auftragen. - Klebstoff und Farben niemals in der Nähe einer Flamme verwenden.
- Während der Bemalung mit Spritzpistole oder Pinsel für frische Luftzufuhr, z.B. öffnen des Fensters, sorgen.
- Bausatz von kleinen Kindern fernhalten. Verhüten Sie, daß Kinder irgendwelche Bauteile in den Mund nehmen oder Plastiktüten über den Kopf ziehen.

**■ 조립하기 전에**

- 부품을 조립하기 전에 설명서를 잘 읽어본 후 조립한다. - 부품을 자를 때에는 칼이나 니퍼로 깨끗이 잘라준다. - 점착제를 사용할 곳과 사용하지 않는 곳에 주의하고 너무 많이 바르지 않도록 한다.
- 점착하기 전에 부품을 맞추어 확인한 후 조립한다. - 에나멜 페인트나 점착제를 사용할 때는 창문을 열어 환기를 시키고 화기를 멀리한다. - 사용 후 남은 부품은 어린 아이들의 손에 닿지 않도록 잘 처리한다.



**<LISEZ CE QUI SUIT AVANT DE COMMENCER LE MONTAGE>**

- Etudier les schémas d'assemblage. - Contrôler que chaque pièce soit bien conforme avant de la coller à sa place.
- N'utilisez pas trop de colle pour réunir les pièces. - Ne faites pas manipuler la colle ou peinture à proximité d'une flamme.
- Aérer soigneusement la pièce où vous peignez(ouvrez la fenêtre).
- Après avoir sorti les pièces du sac en plastique, déchirer le sac afin d'éviter que les enfants ne le mettent sur la tête et ne s'étouffent.

**<組み立てる前に>**

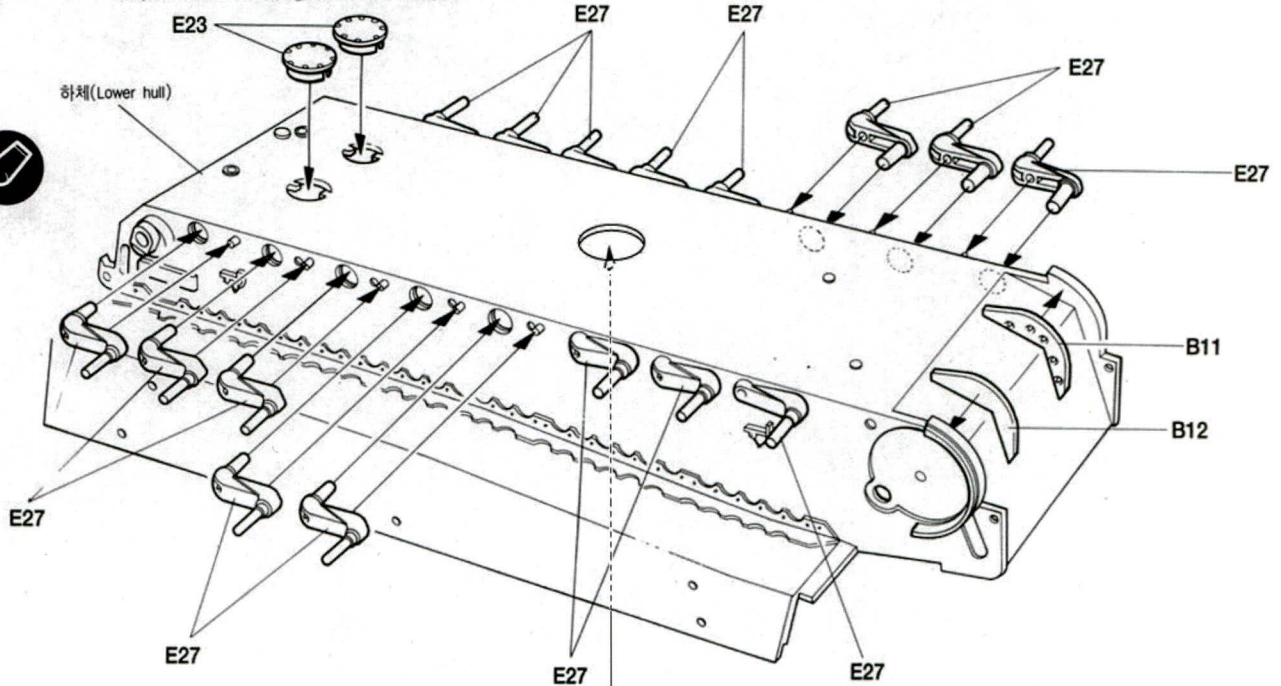
- 組み立てる前に説明書をお読み下さい。 - 部品をランナーから切りはずす時は模型用ニッパーとカッターを使用します。
- 接着剤を少なめに使うことがきれいに仕上げるコツです。 - 接着する前に部品を合わせて確かめます。
- 接着剤や塗料を使用する時はときどき窓を開けて換気をお願いします。
- 組み立て後の部品やビニール袋は小さな子供の手の届かない安全な所に保管して下さい。

**1**

**【 주의 】** 실물의 타이거- 증기형에는 페메리트 코팅이 실시된 차량이 많으므로, 18페이지의 내용을 충분히 읽어 본뒤 조립을 시작한다.

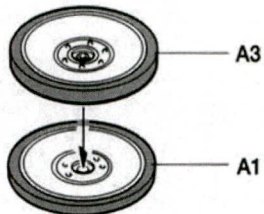
**【 NOTE 】** Many vehicles are applied to Zimmerit cement coating, so please refer to 18page before assembly.

● → 점착한다. CEMENT ● --- → 점착금지. DO NOT CEMENT  
 ※ ( )는 반대측 부품 번호임. ( ) is opposite number.



**2**

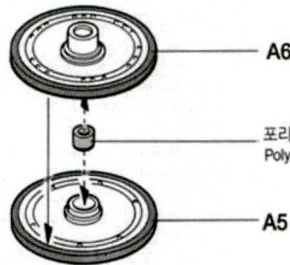
**A 전륜 (Road wheel)**



**8**

▶ 타이어: 무광검정색  
 Tire: Flat Black

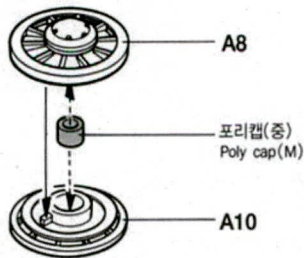
**B 전륜 (Road wheel)**



**8**

**8**

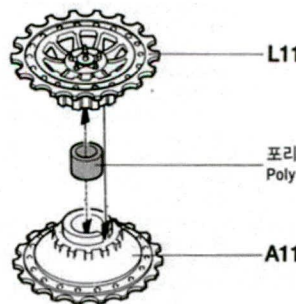
**C 아이들러 휠 (Idler wheel)**



**2**

**2**

**D 기동륜 (Drive sprocket)**



**2**

**2**

점착한다.  
 Cement Parts  
 Coller  
 Kleben  
 Pagar  
 Incollare  
 Colar  
 Kleven

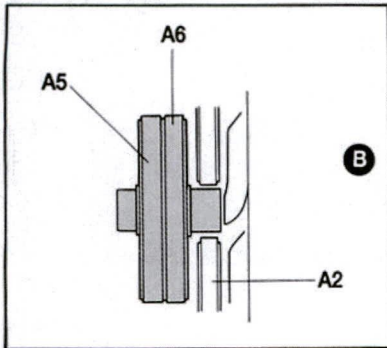
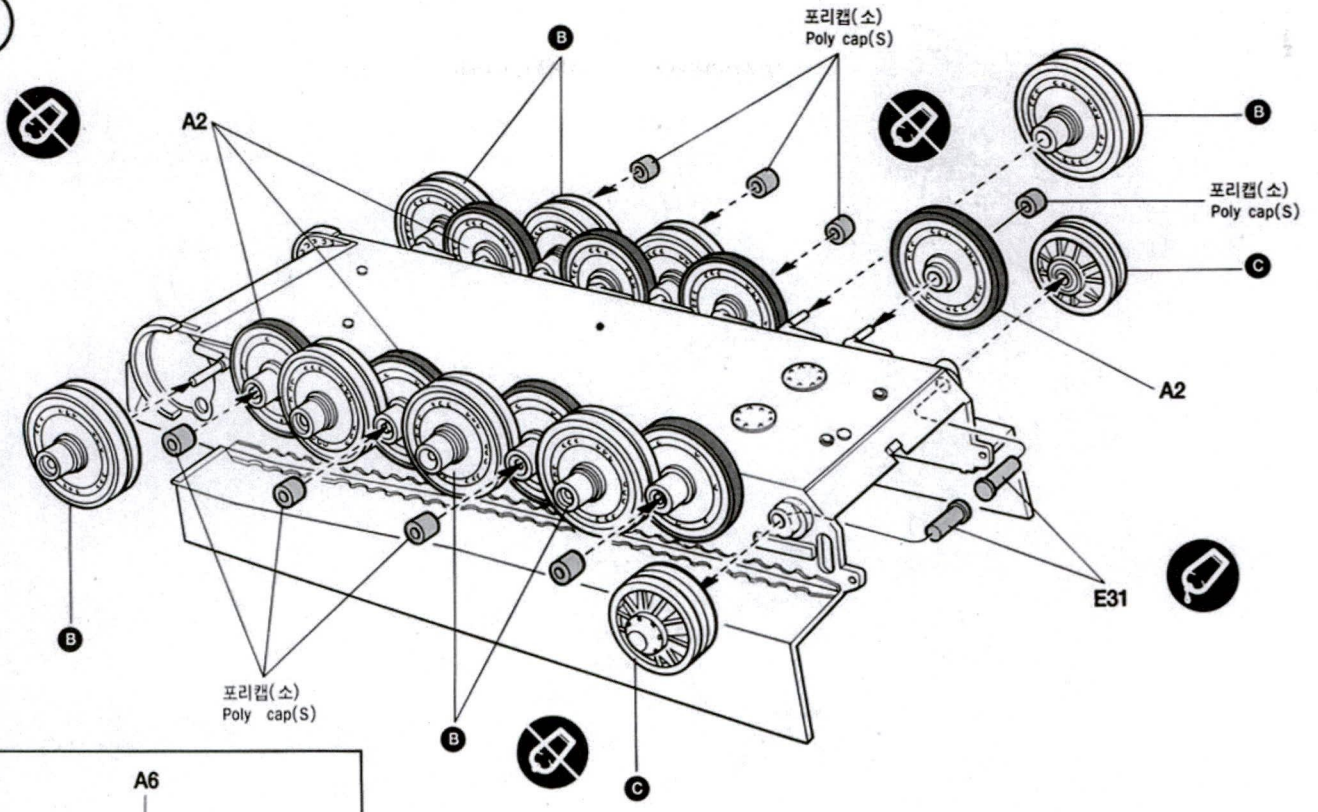
점착하지 않는다.  
 DO NOT cement  
 Ne pas coller  
 Nicht kleben  
 No pegar  
 Non incollare  
 Nao colar  
 Niet kleven

잘라낸다.  
 Cut away  
 Couper  
 schneiden  
 Cortar  
 Scheiden  
 Tagliare  
 Cortar  
 Snijden

선택한다.  
 Optional parts  
 Choisir  
 Auswahlmöglichkeit  
 Eleccion  
 Scelta  
 Opcao  
 Keuze

수업할 조립한다.  
 Repeat operation  
 Repeter l'operation  
 Vorgang wiederholen  
 Repetir la operacion  
 Ripetere  
 Repetir a operacao

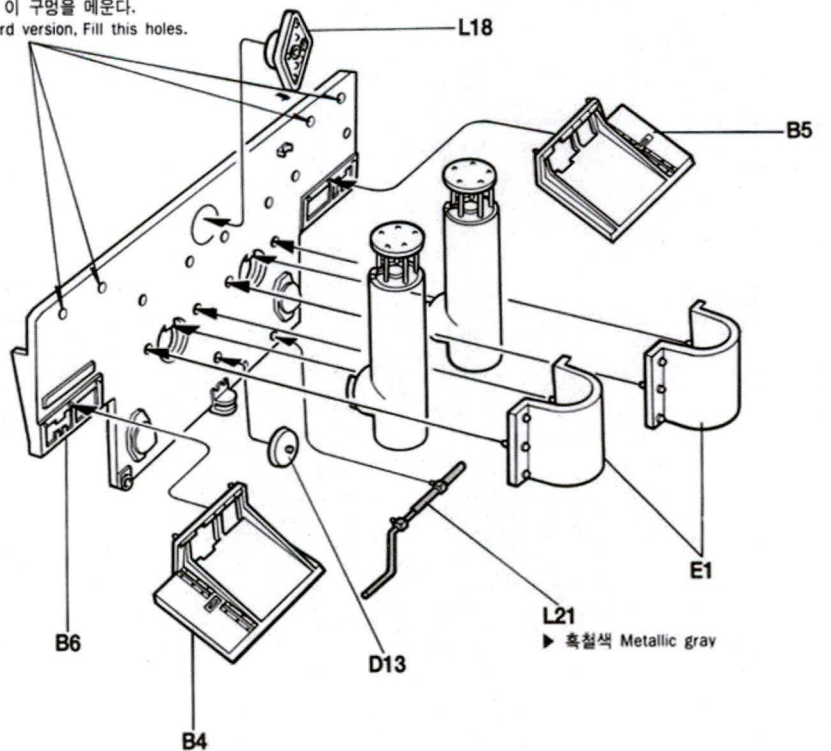
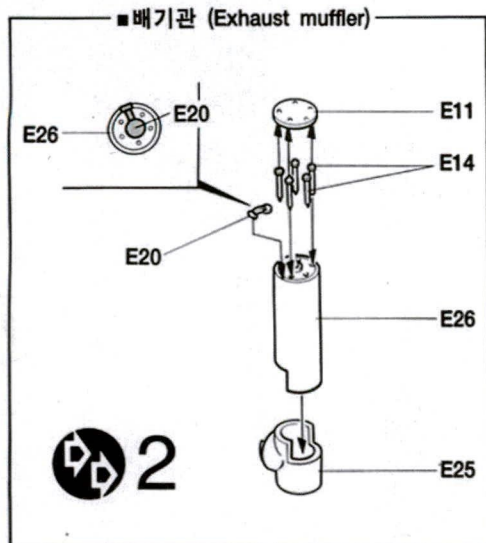
3



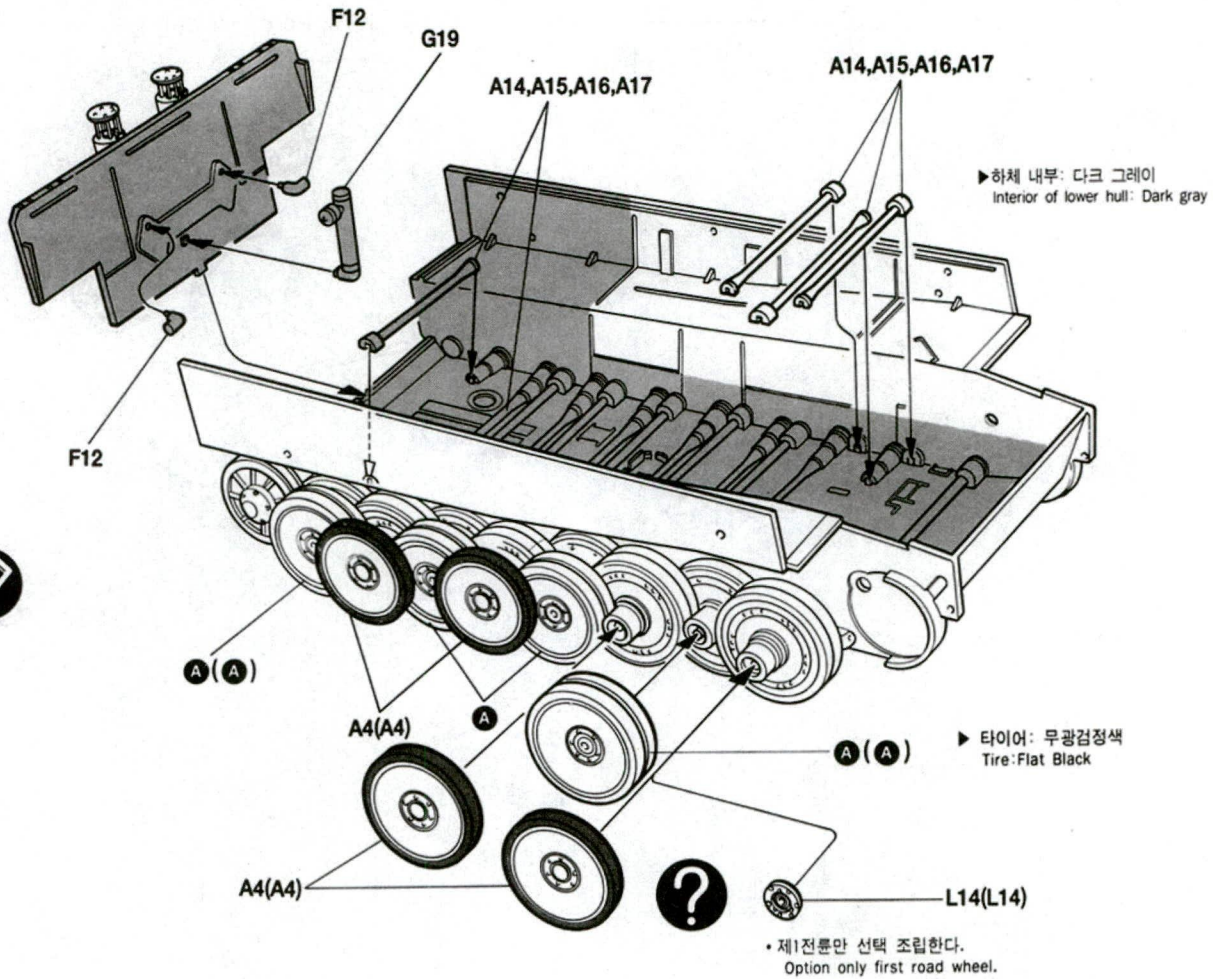
▶ 타이어: 무광검정색 Tire: Flat Black

4

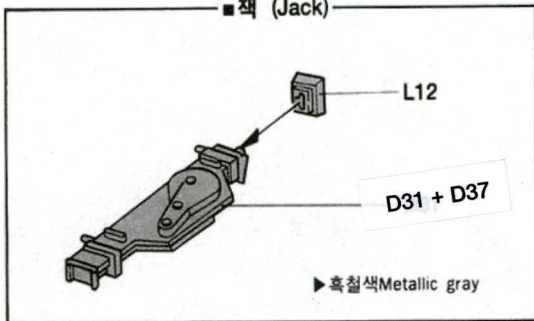
중기 표준형으로 조립할때는 이 구멍을 메운다.  
When you make mid-standard version, Fill this holes.



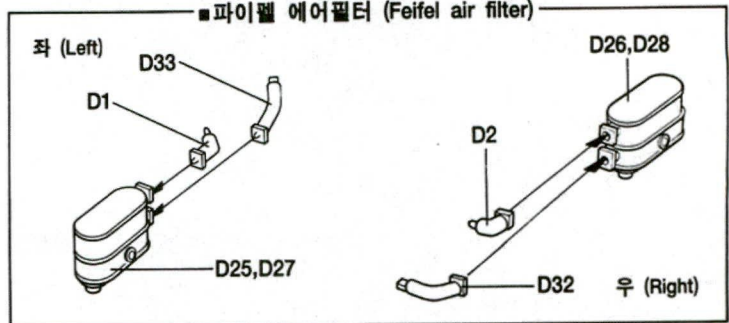
5



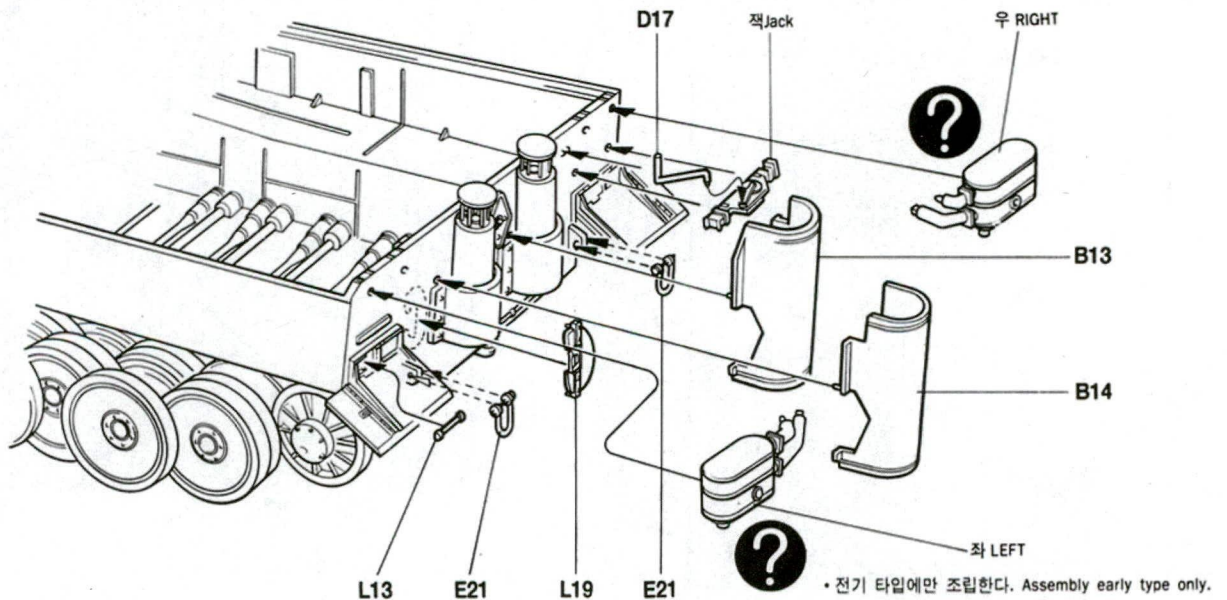
■ 잭 (Jack)



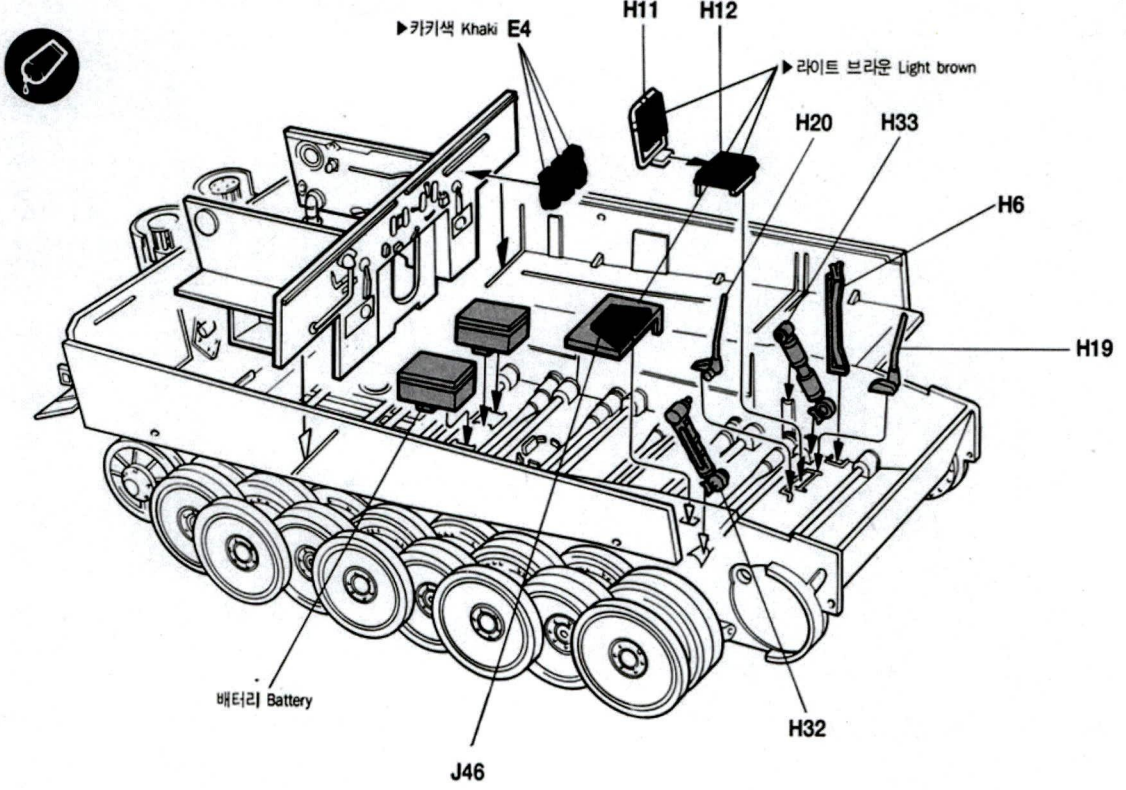
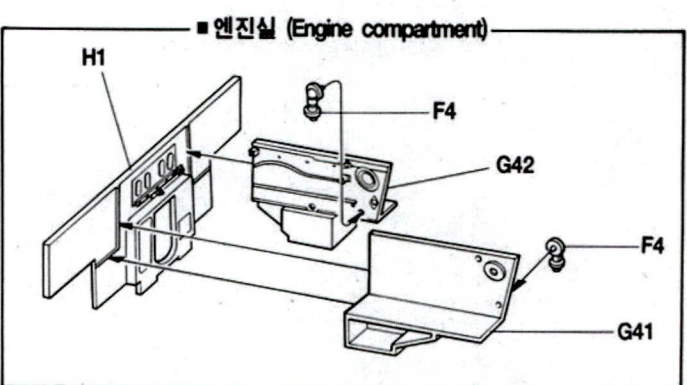
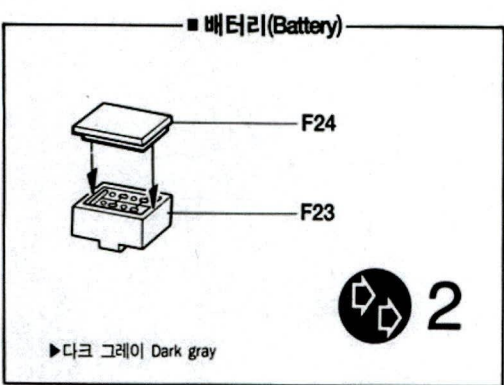
■ 파이펠 에어필터 (Feifel air filter)



6

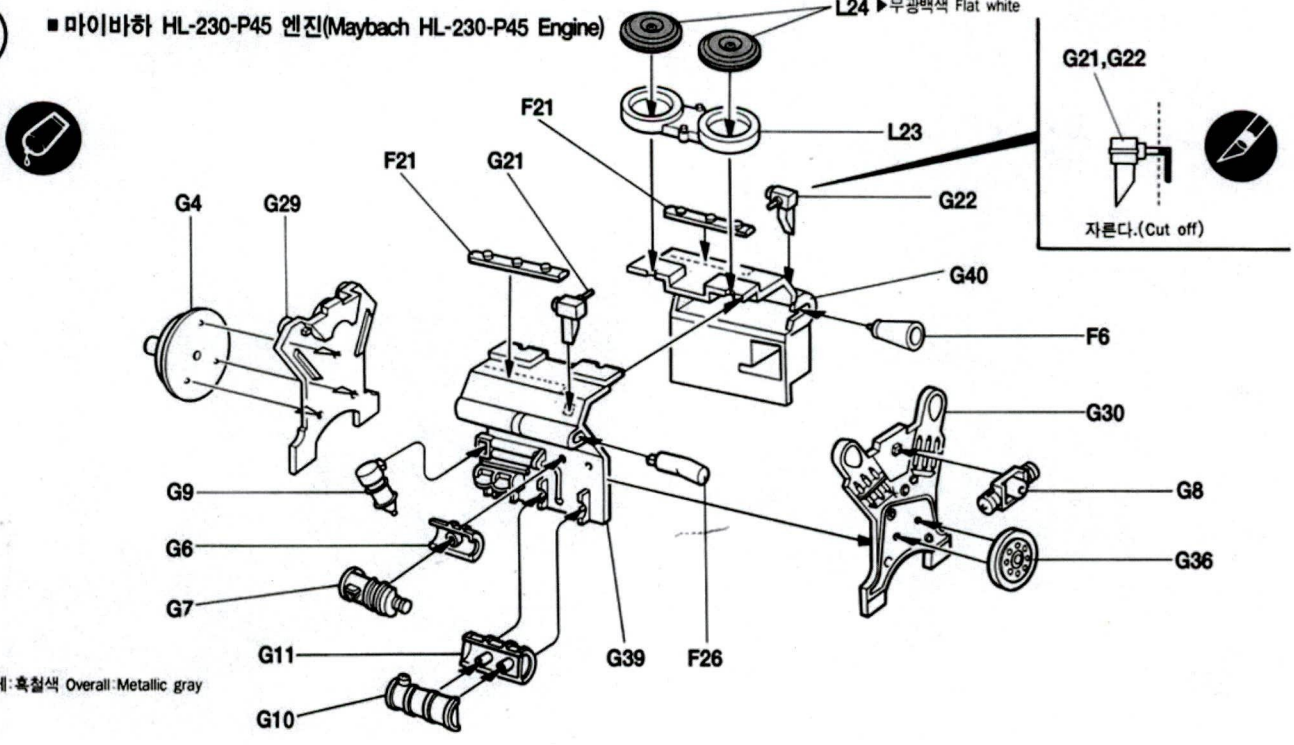


7



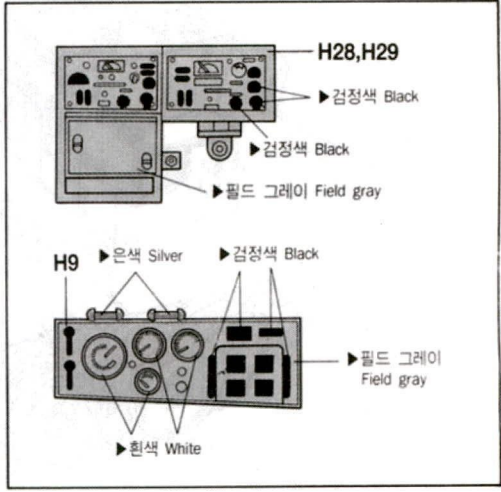
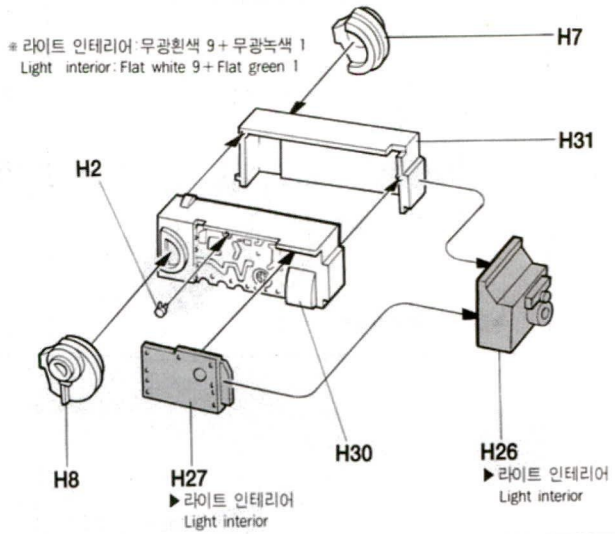
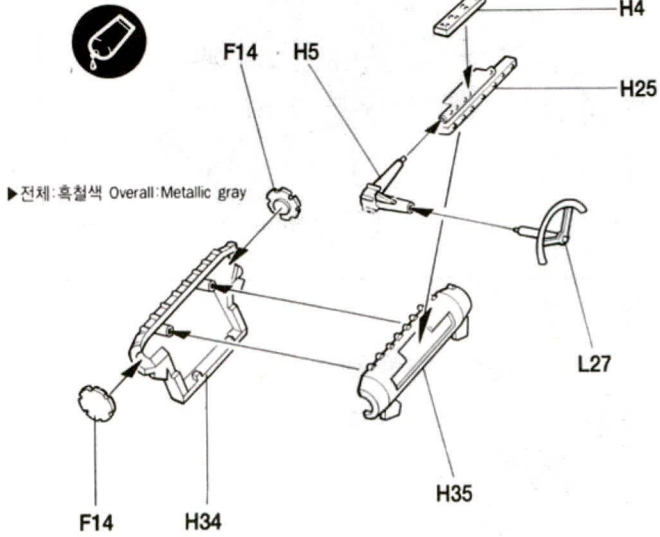
8

■ 마이바하 HL-230-P45 엔진(Maybach HL-230-P45 Engine)

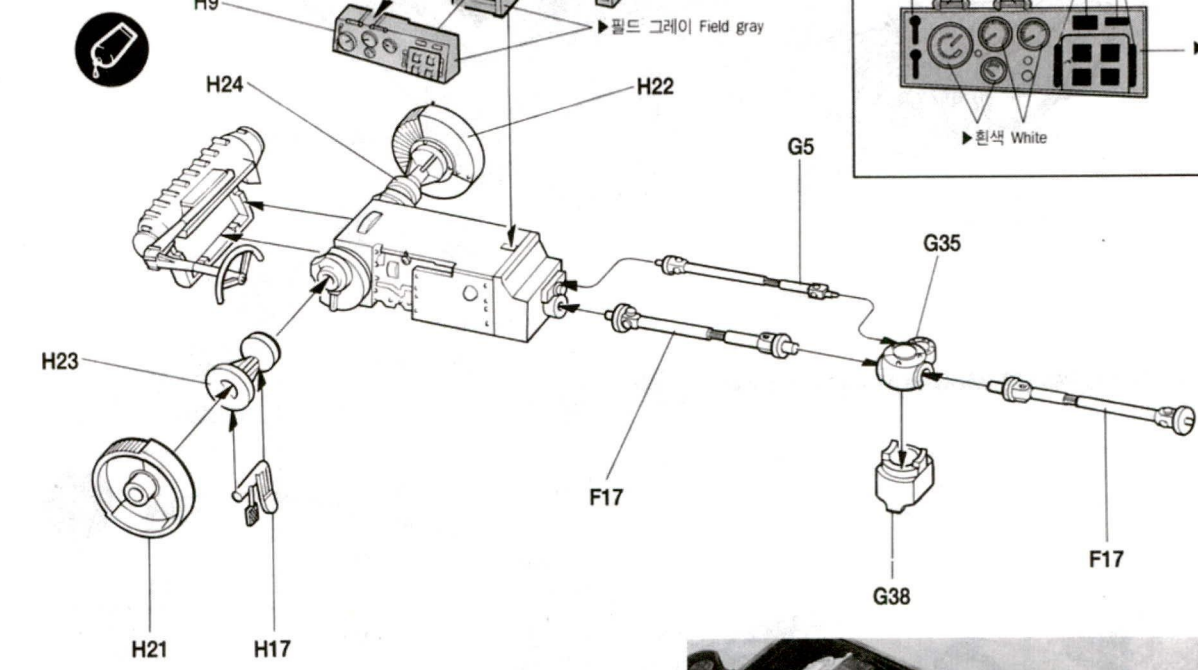


9

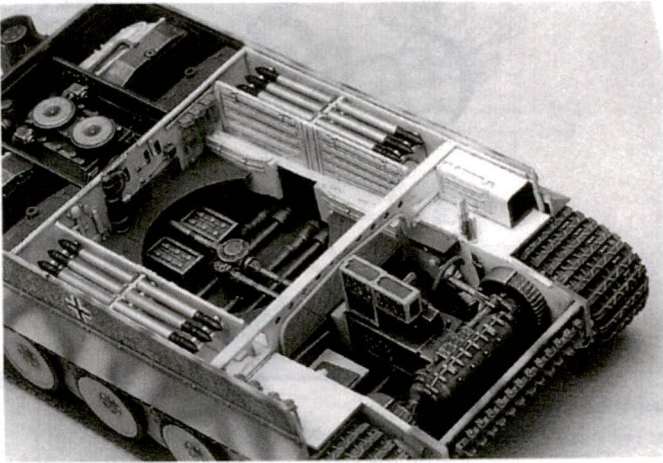
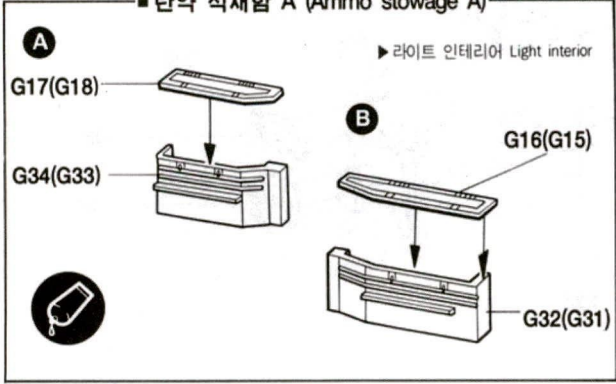
■ 올바-게트리베 트랜스미션(Olva-getribe transmission)



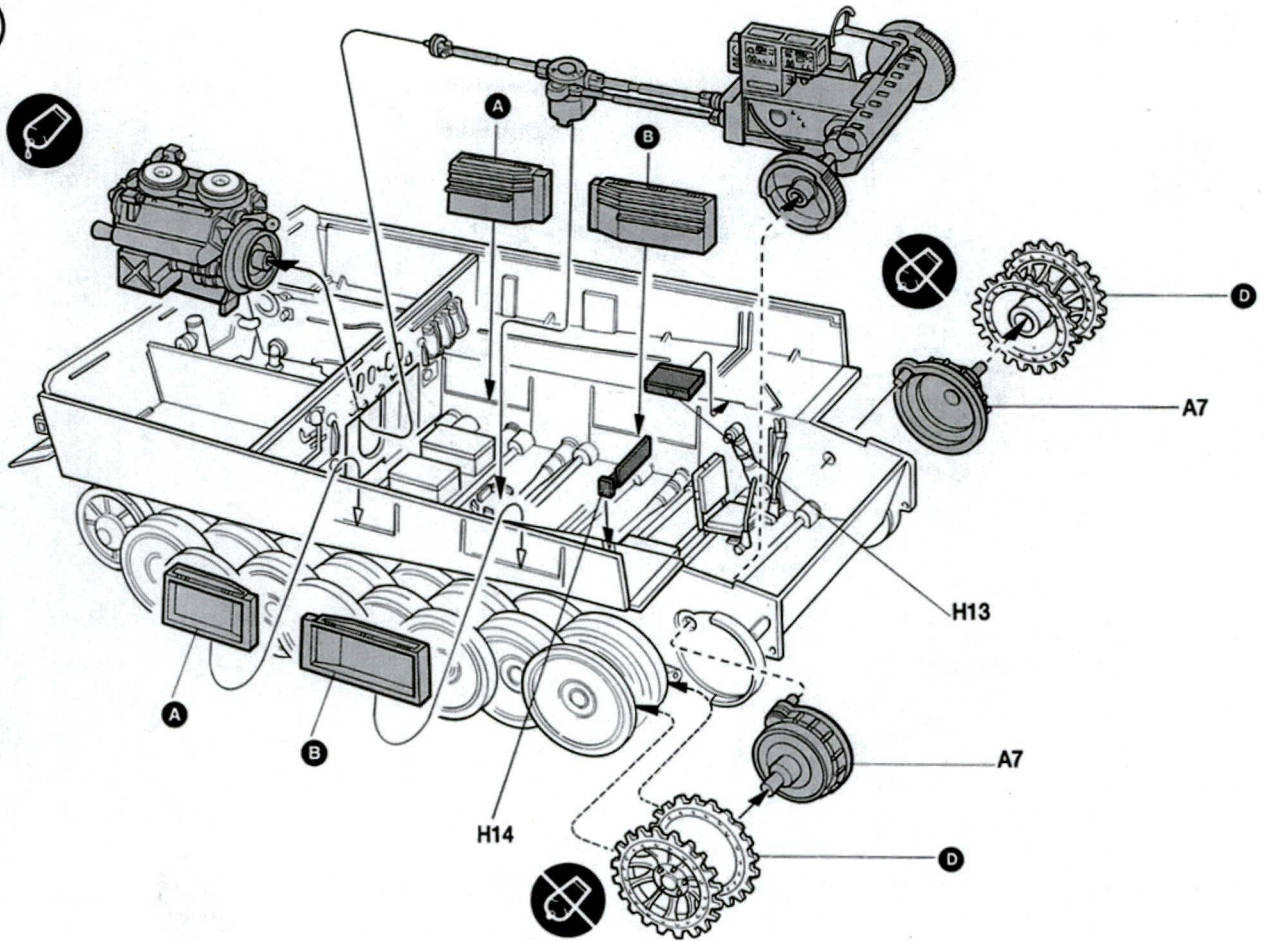
10



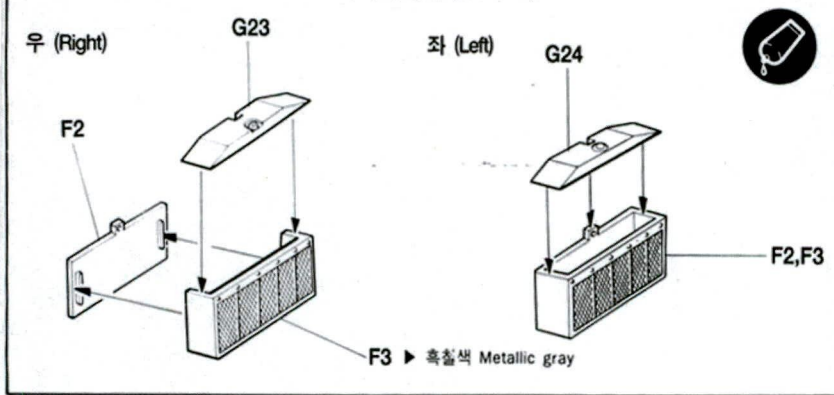
■ 탄약 적재함 A (Ammo stowage A)



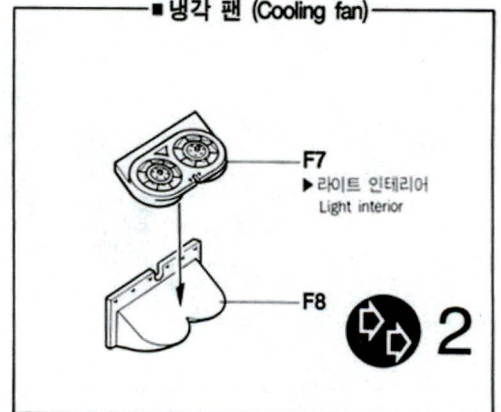
11



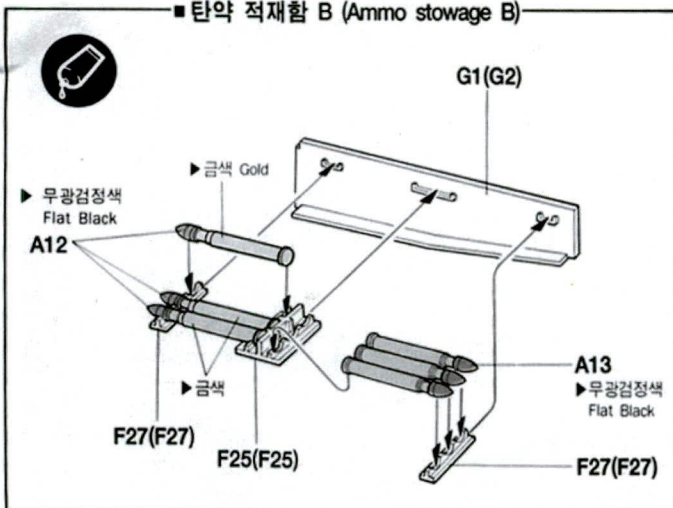
■ 라디에이터 (Radiator)



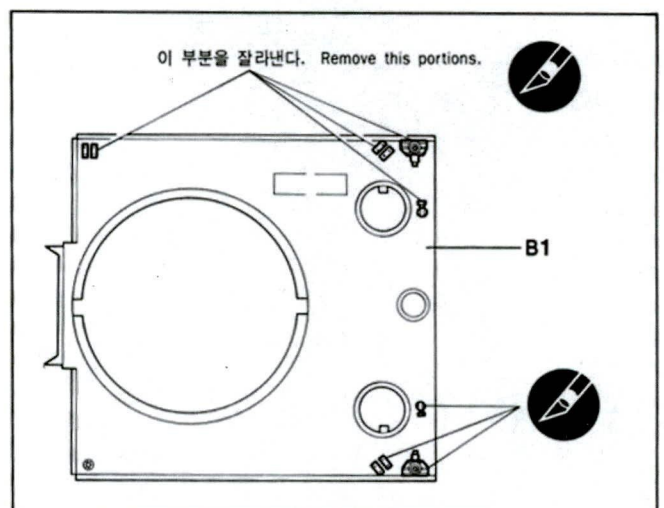
■ 냉각 팬 (Cooling fan)



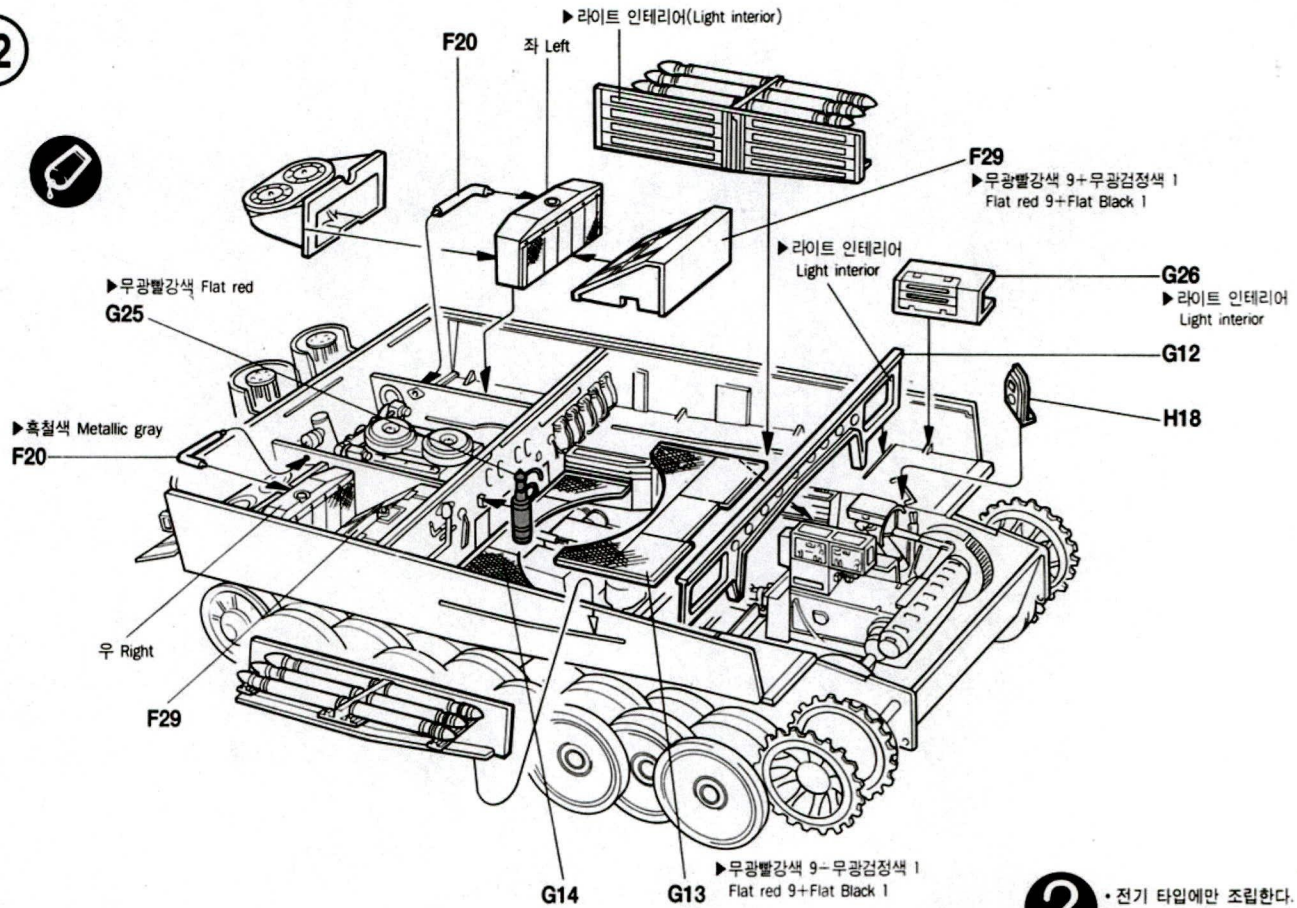
■ 탄약 적재함 B (Ammo stowage B)



이 부분을 잘라낸다. Remove this portions.



12

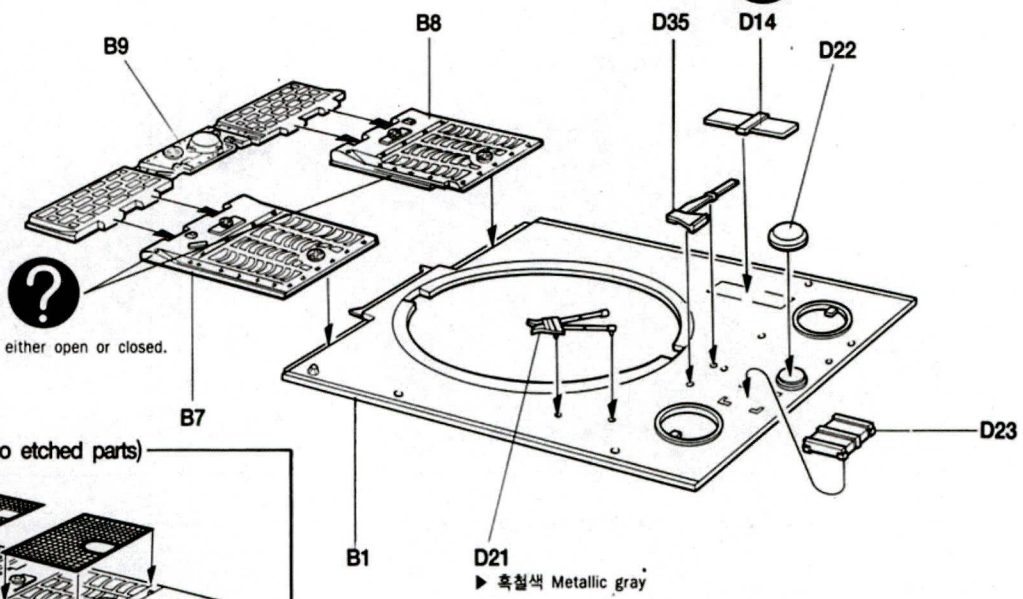


• 전기 타입에만 조립한다.  
Assembly early type only.

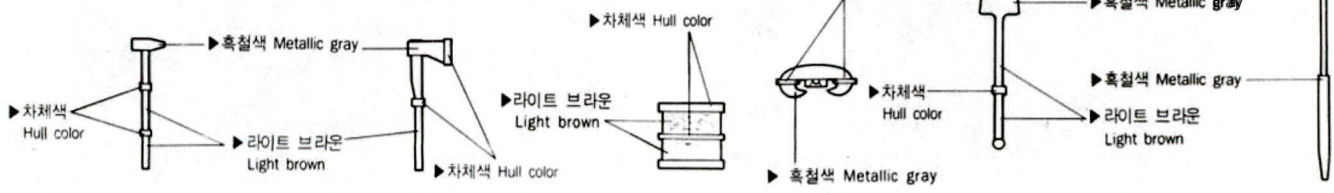
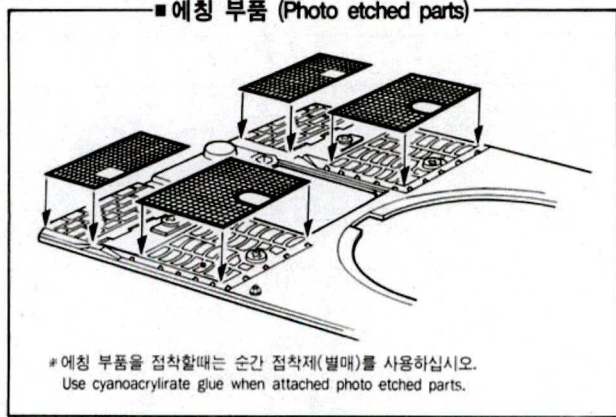
13



• 개폐선택 Select either open or closed.

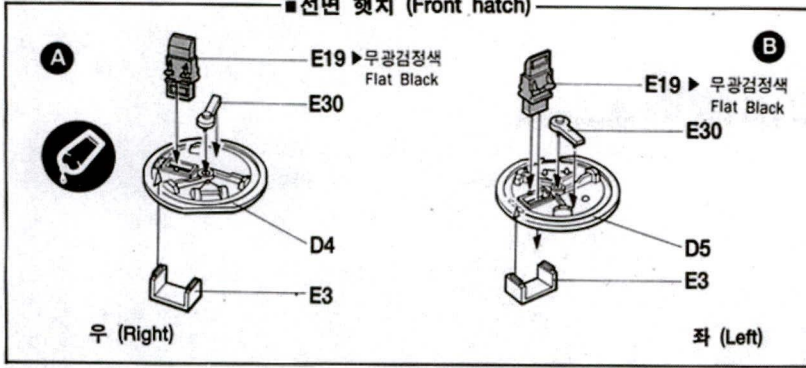


■ 에칭 부품 (Photo etched parts)

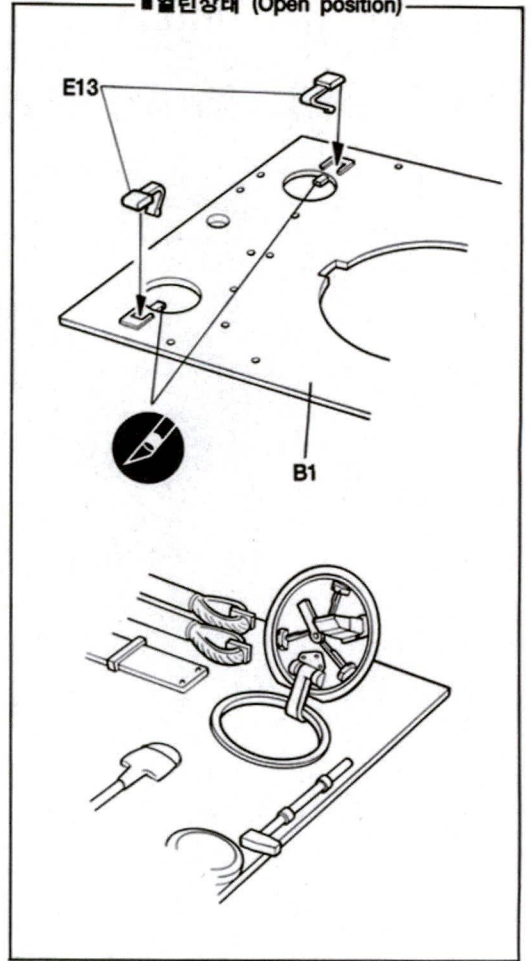




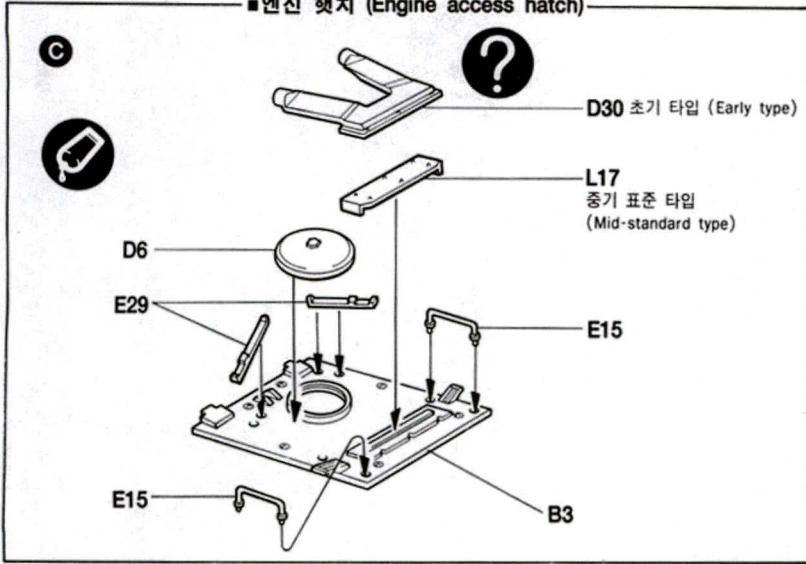
■ 전면 헷치 (Front hatch)



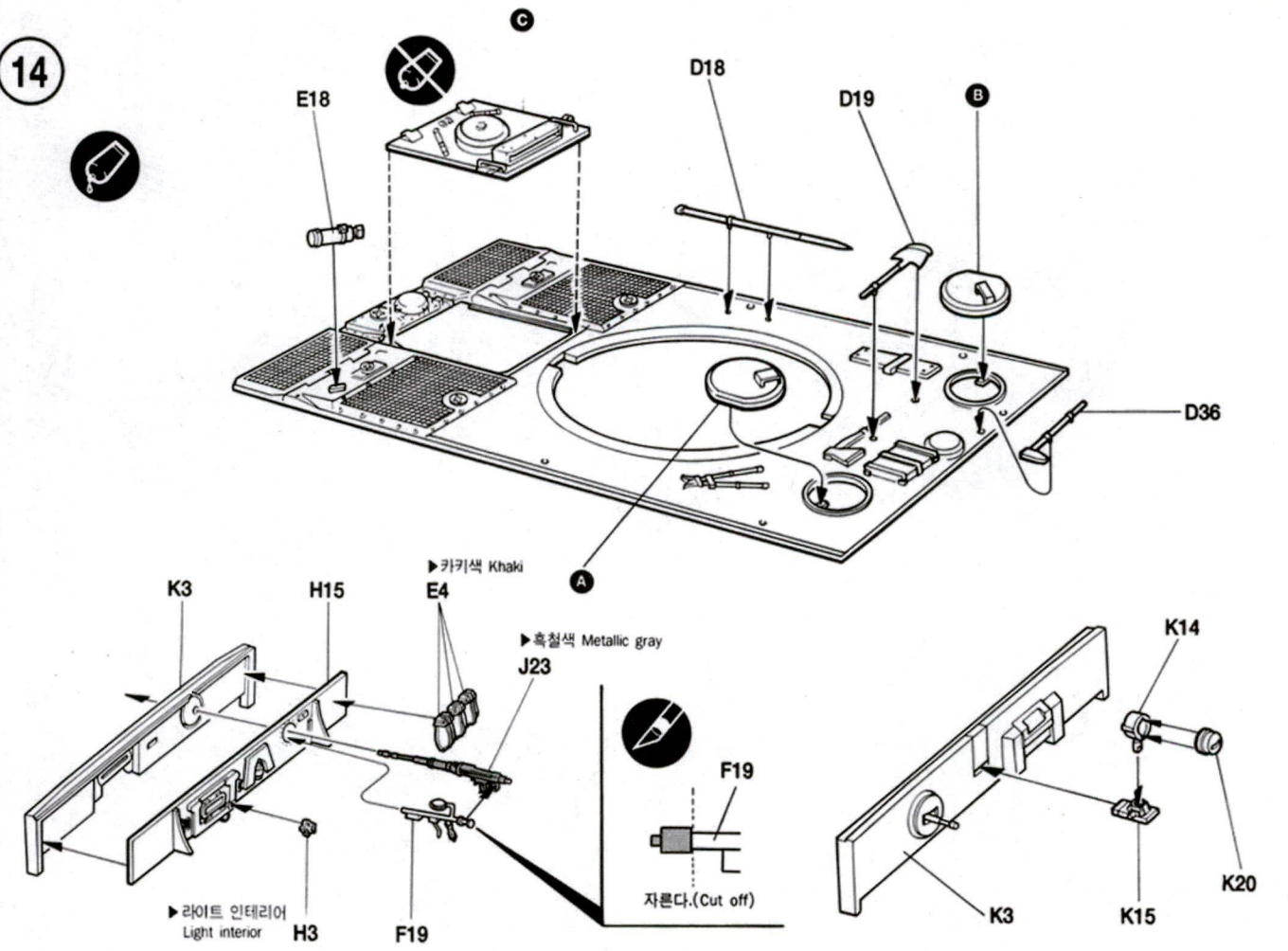
■ 열린상태 (Open position)



■ 엔진 헷치 (Engine access hatch)

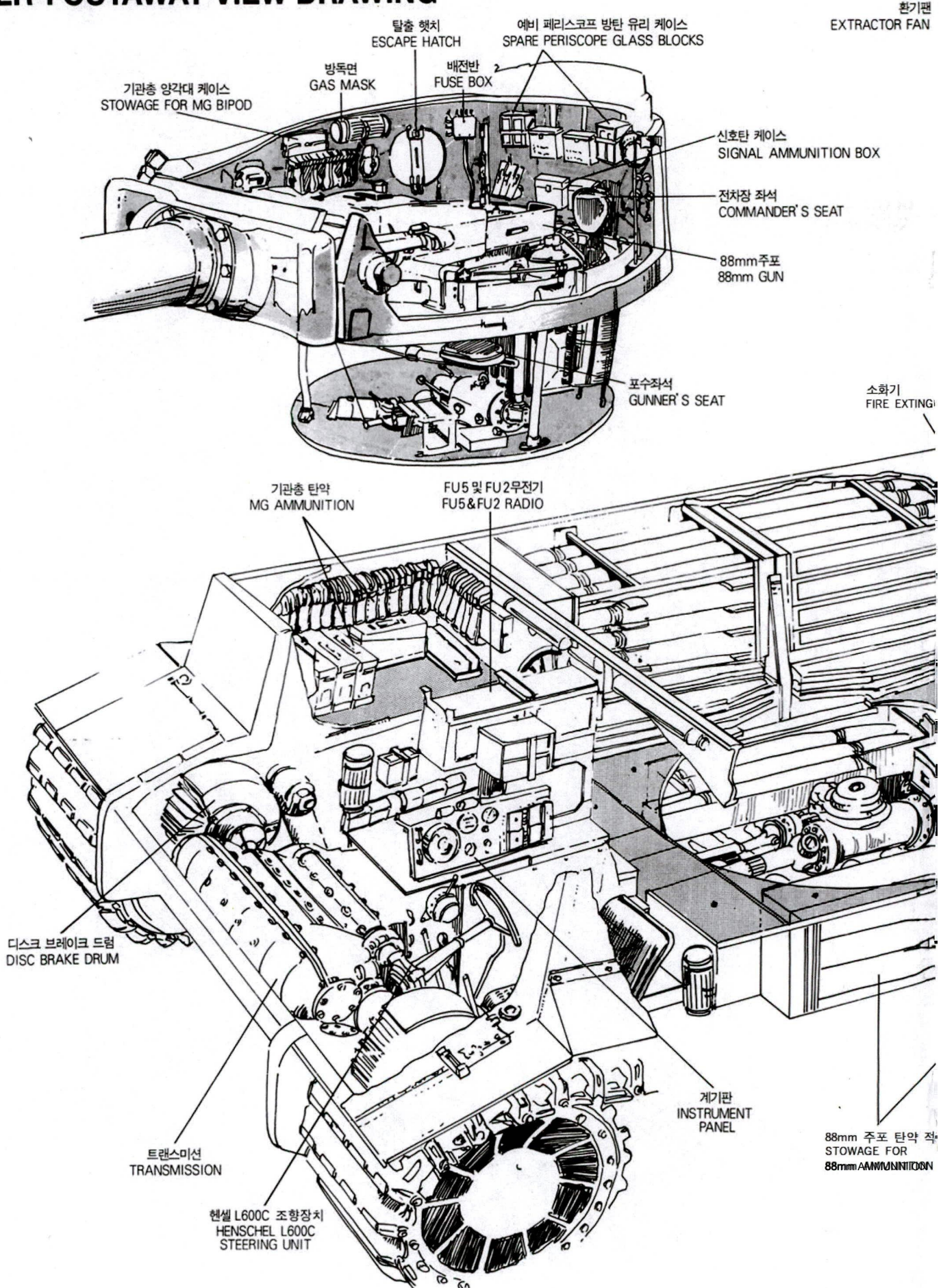


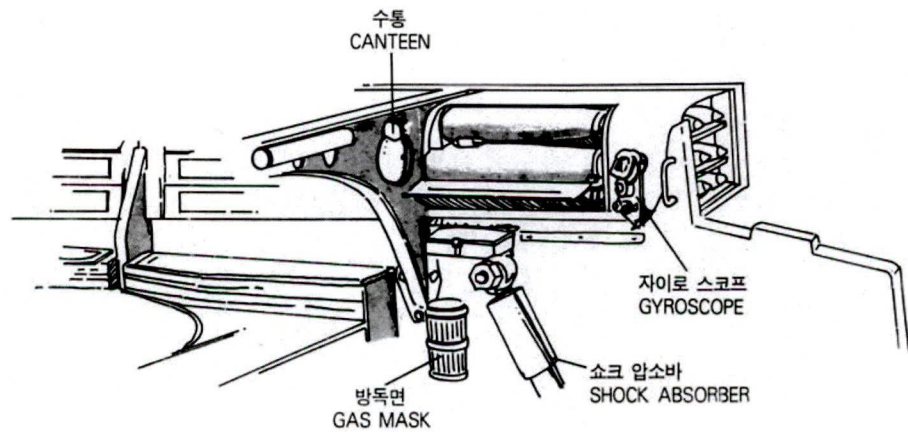
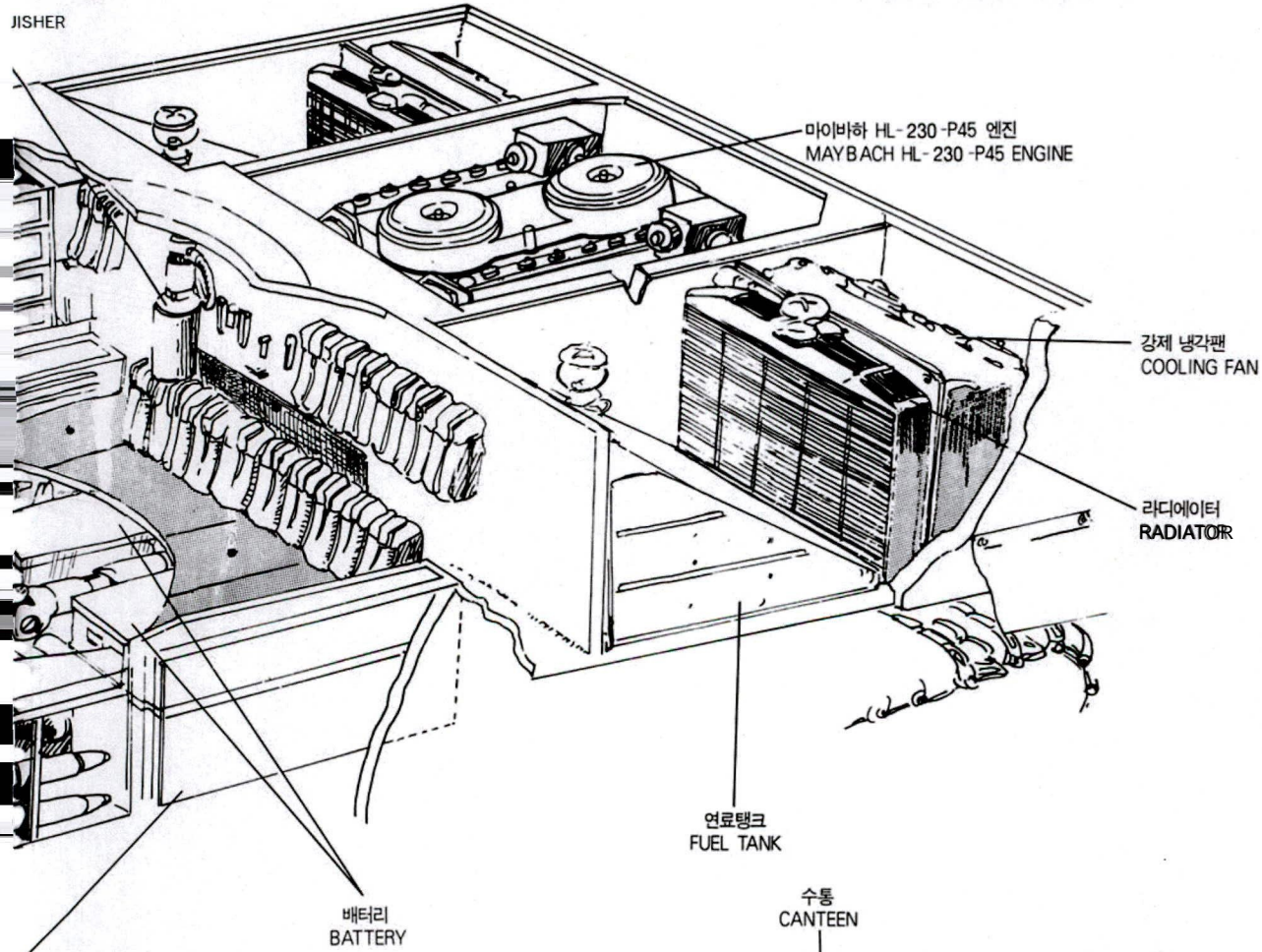
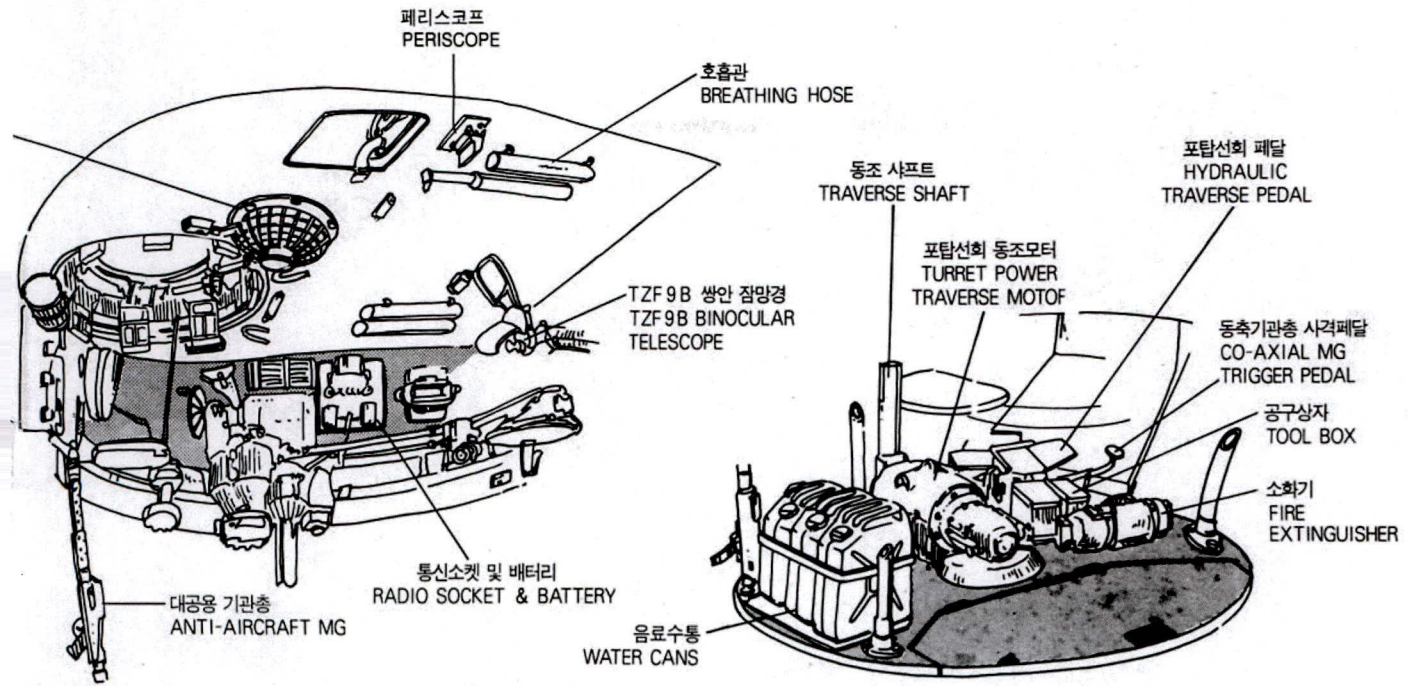
14



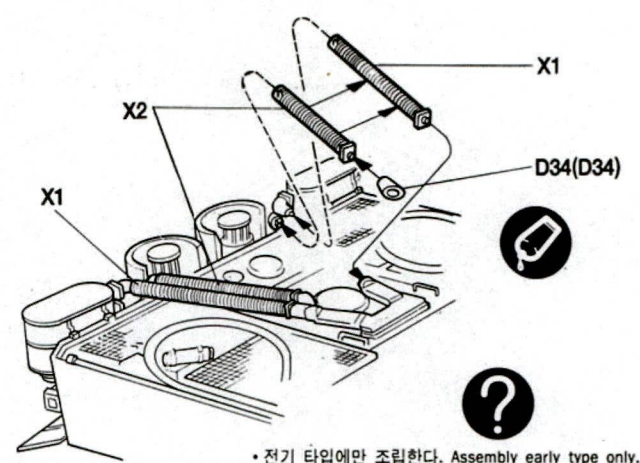
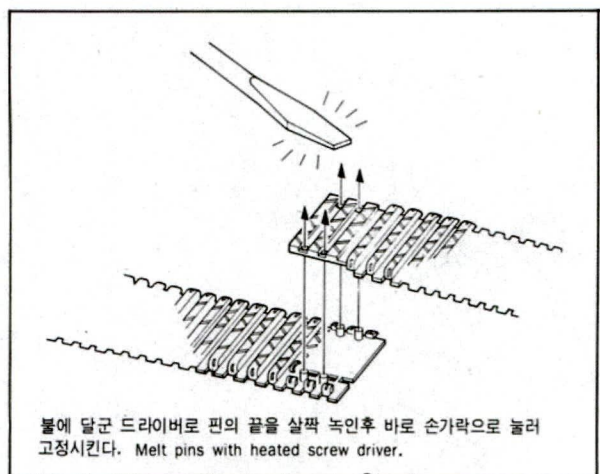
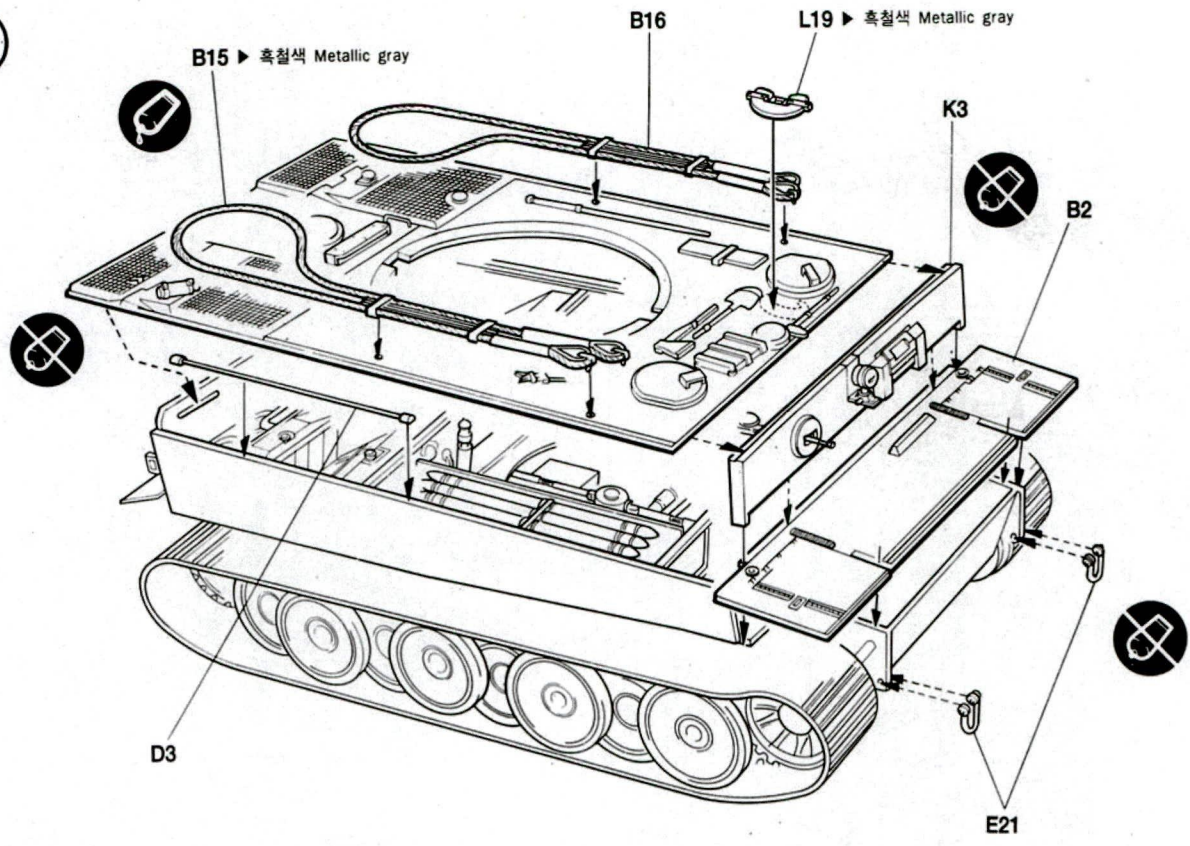
# 타이거 - I 내부 구조도

## TIGER-I CUTAWAY VIEW DRAWING

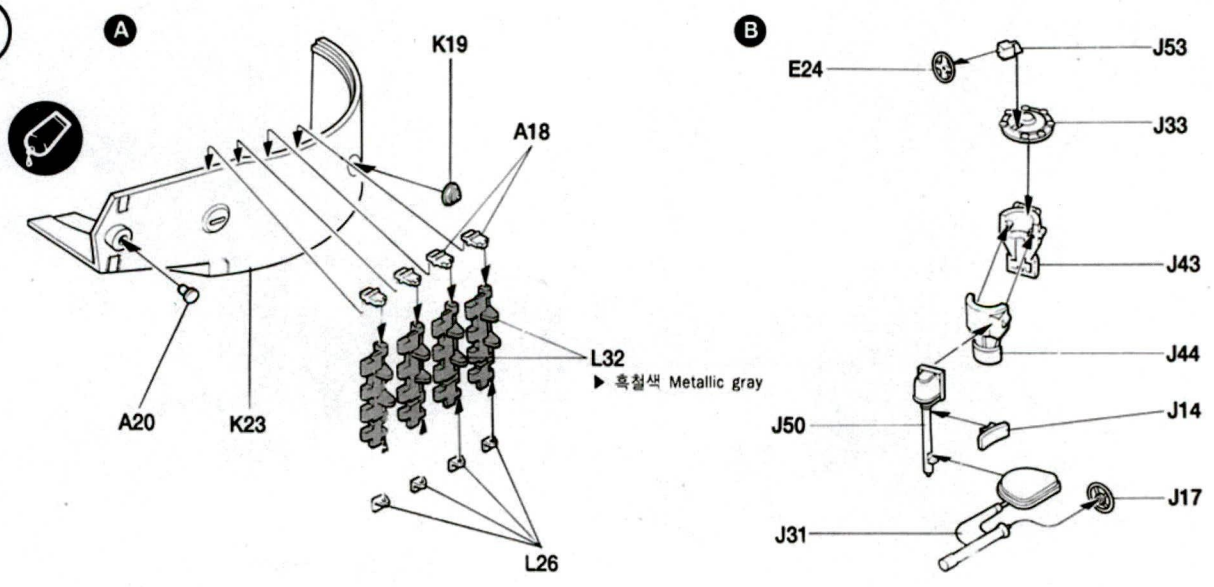




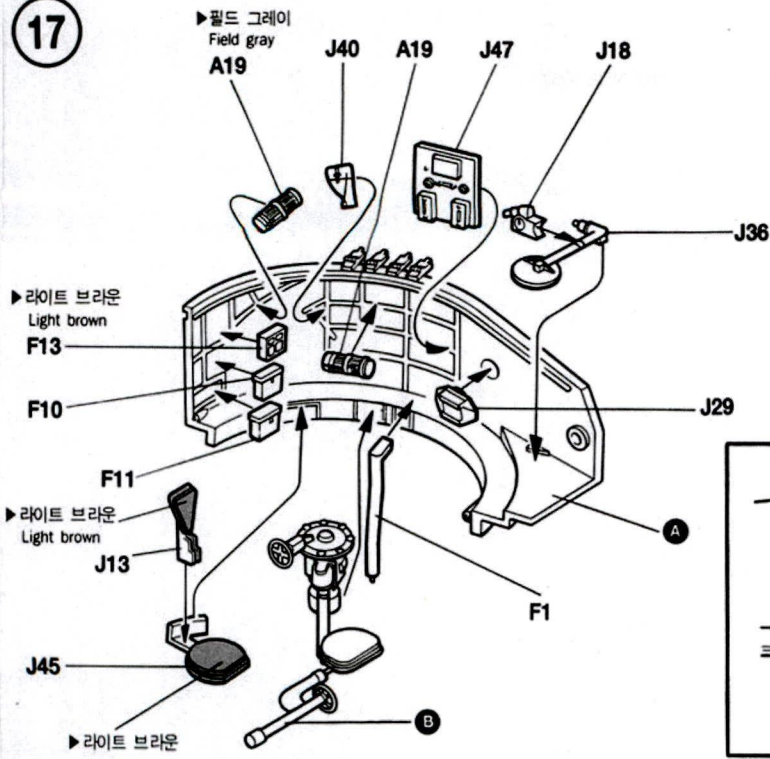
15



16

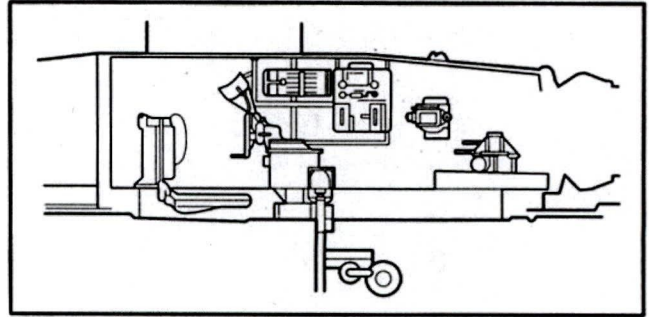


17

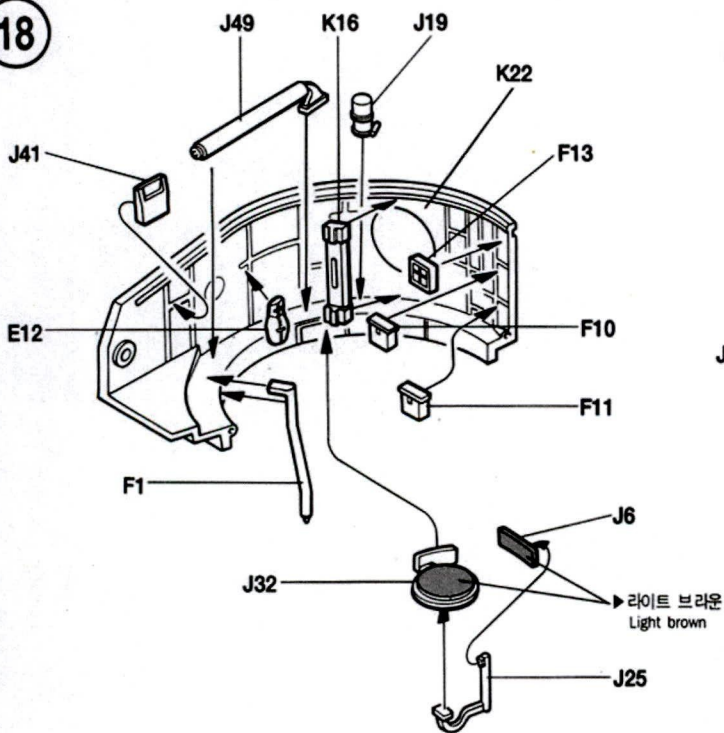


▶ 내부 전체색: 라이트 인테리어  
Overall: Light interior

좌 (Left)

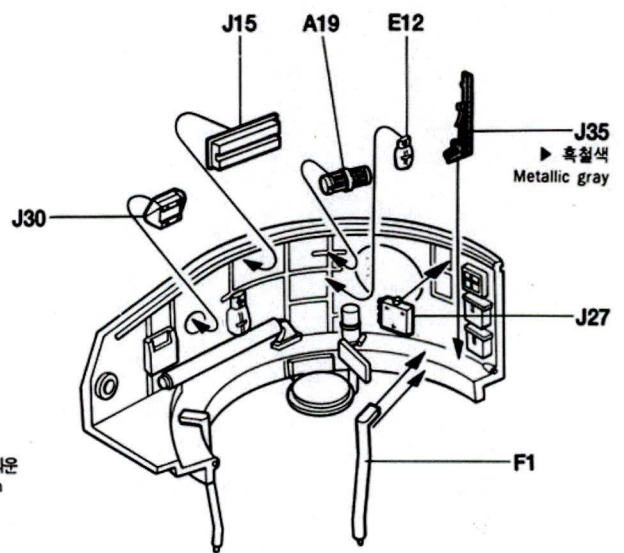


18

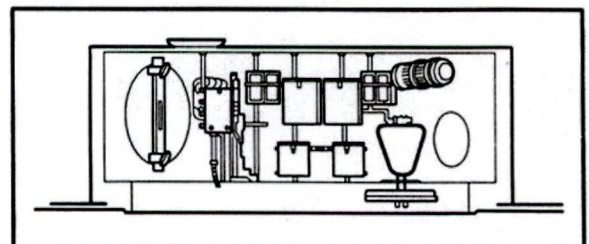
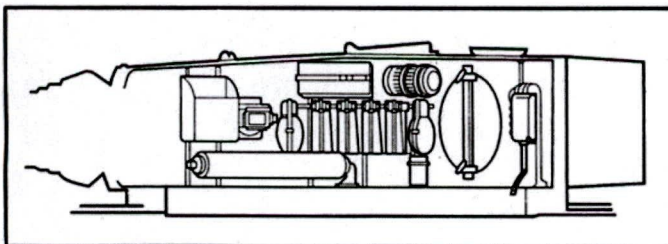


▶ 내부 전체색: 라이트 인테리어  
Overall: Light interior

우 (Right)

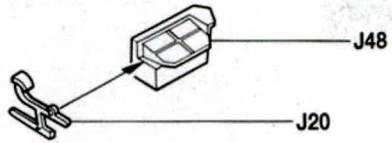


후부 (Rear)

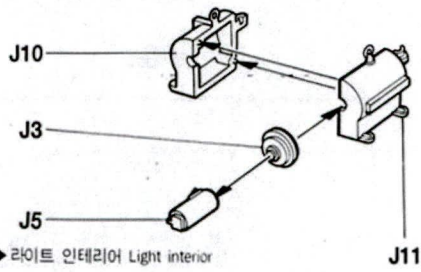


19

A 동축 기관총 페달 (Co-axial MG trigger pedal)



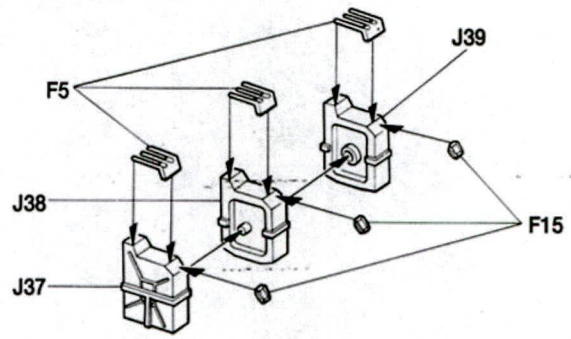
B 유압 동조 모터 (Hydraulic traverse motor)



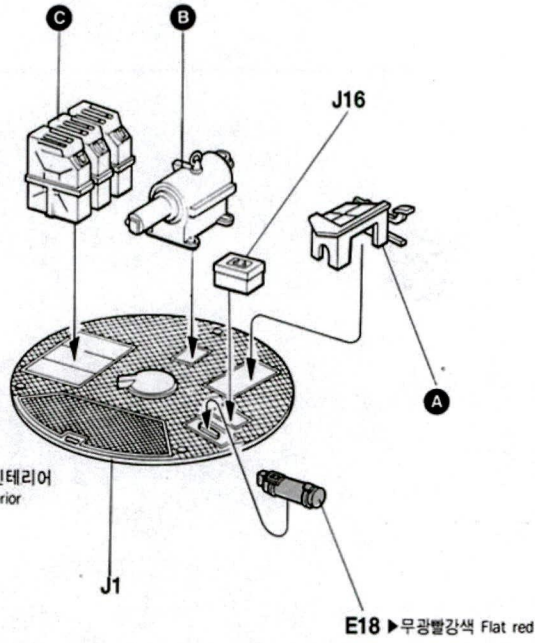
▶ 라이트 인테리어 Light interior



C 음료수통 (Water cans)



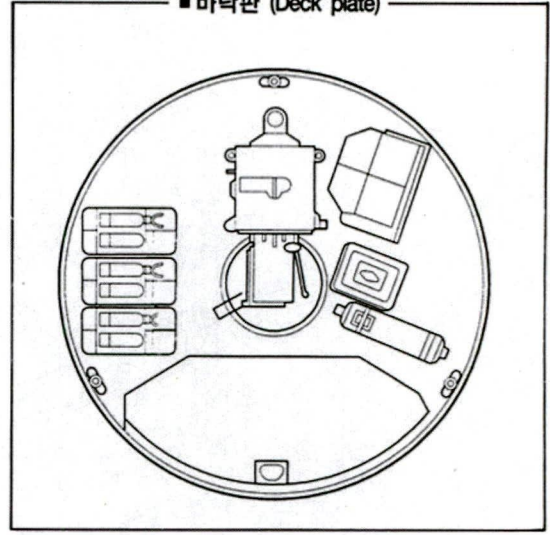
▶ 다크 옐로우 Dark yellow



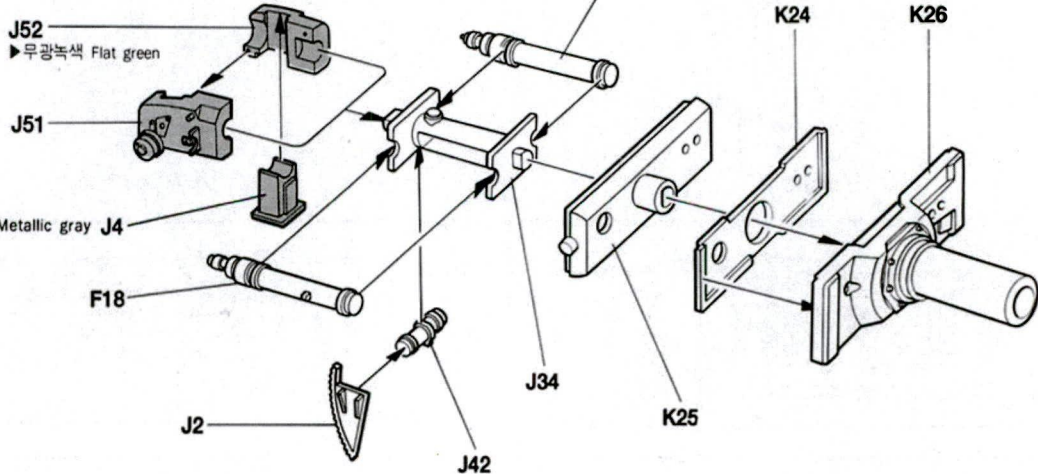
▶ 전체 : 라이트 인테리어 Overall: Light interior

E18 ▶ 무광빨강색 Flat red

■ 바닥판 (Deck plate)



20

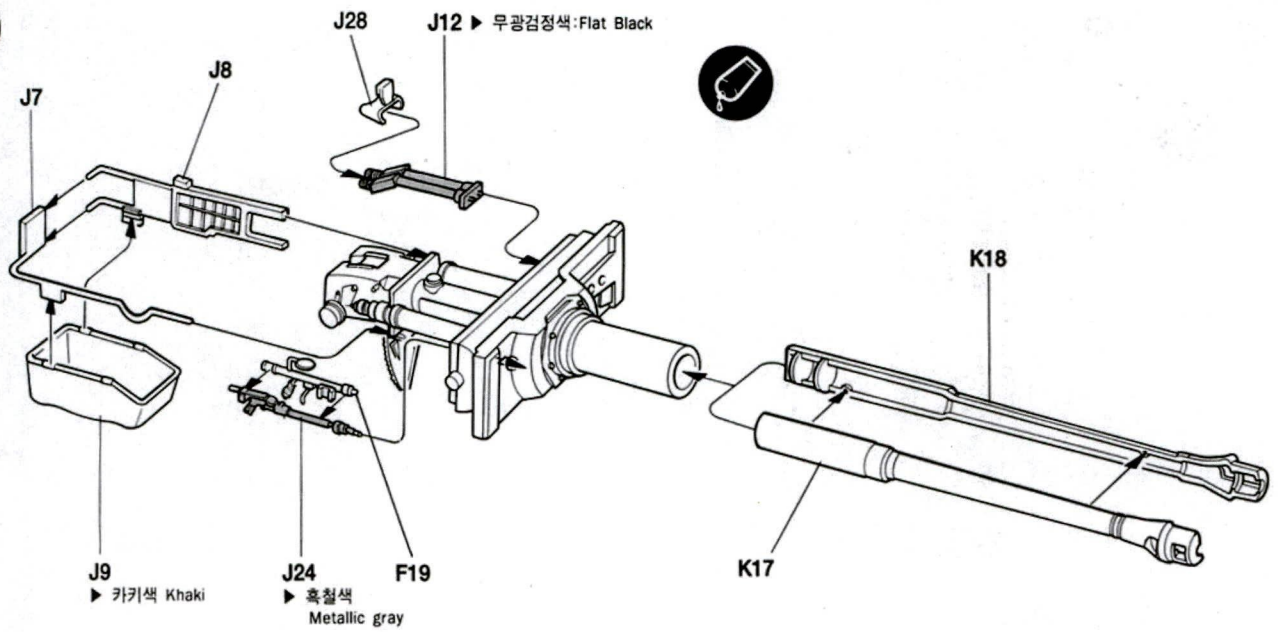


J52 ▶ 무광초록색 Flat green

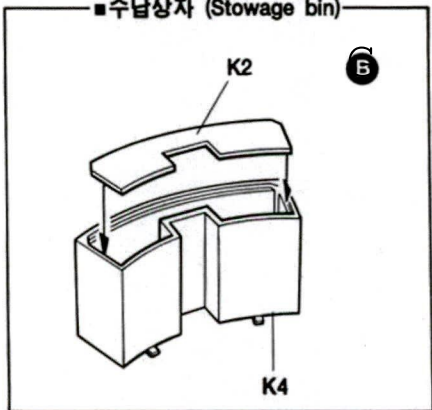
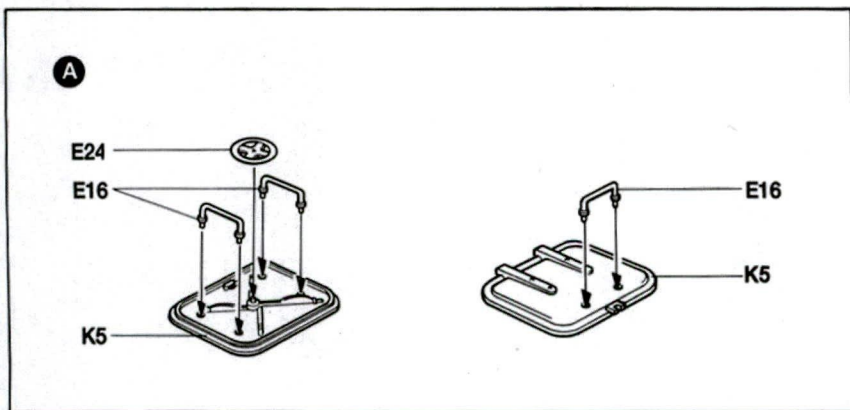
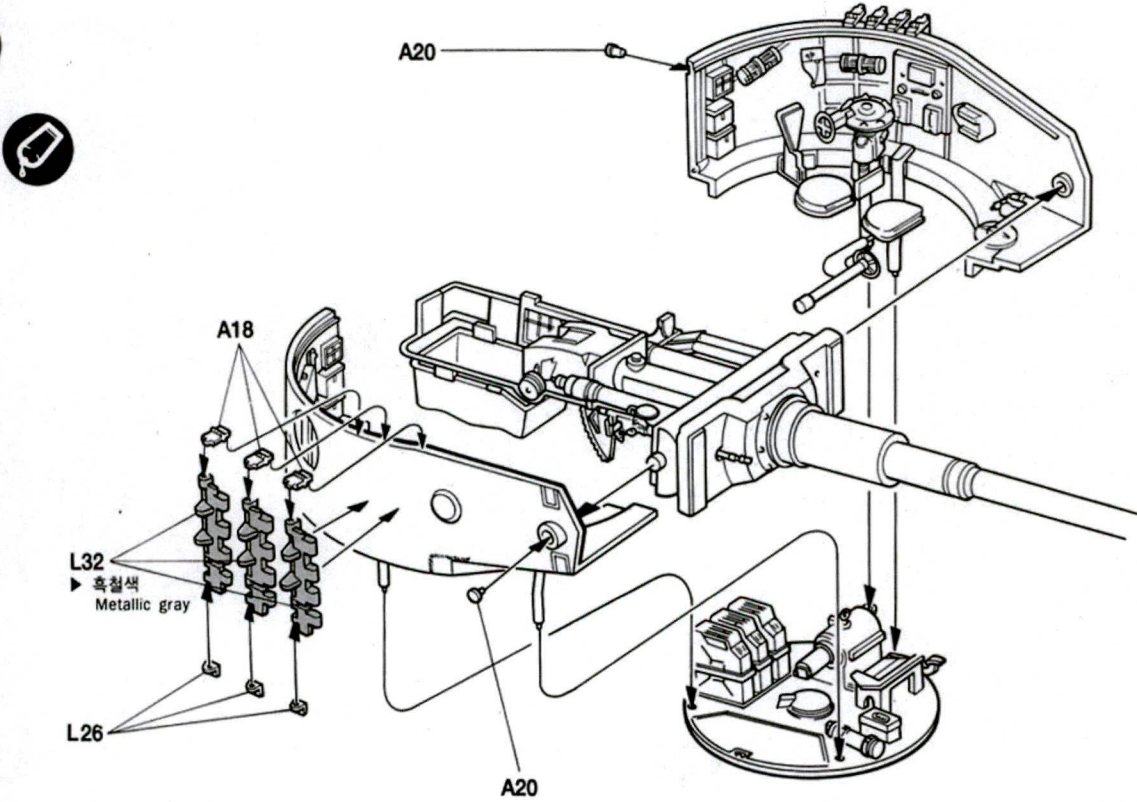
▶ 흑철색 Metallic gray J4



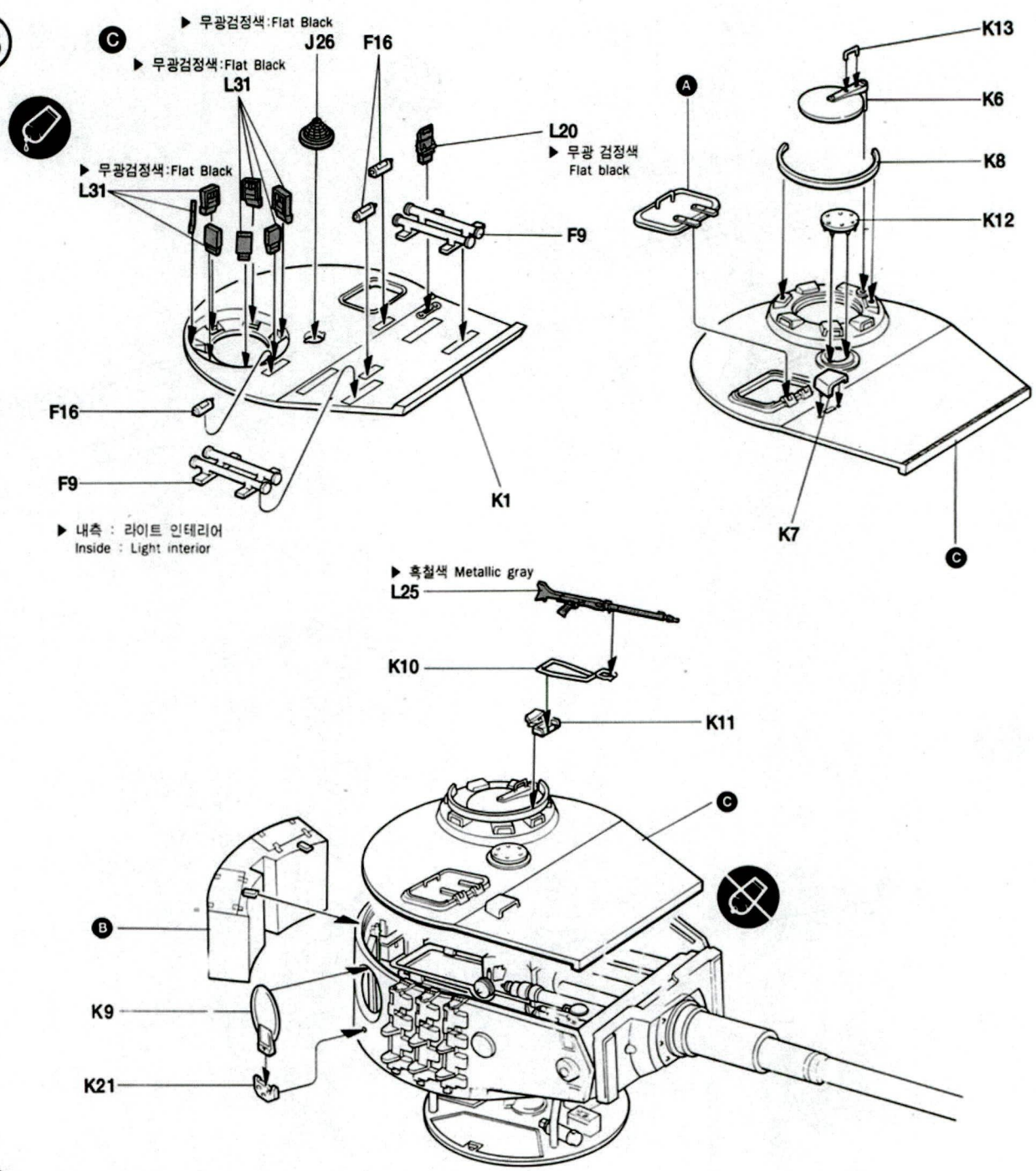
21



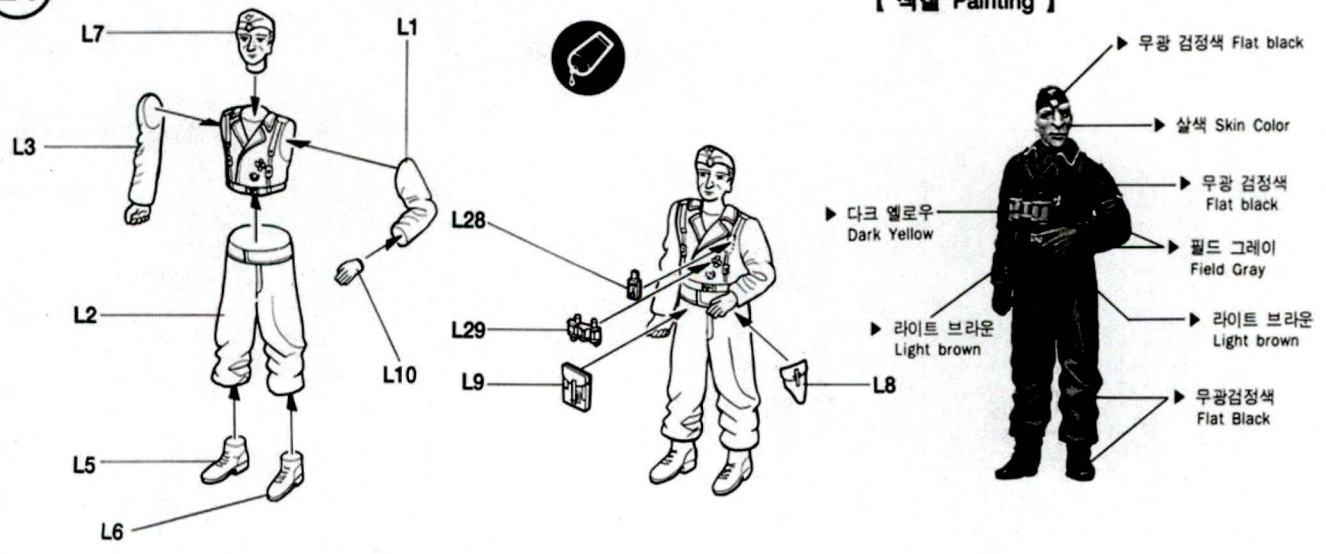
22



23

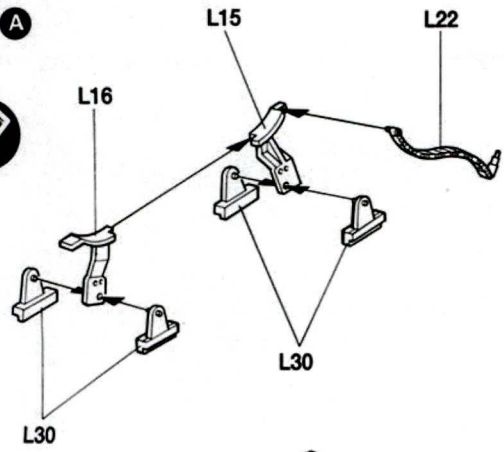


24





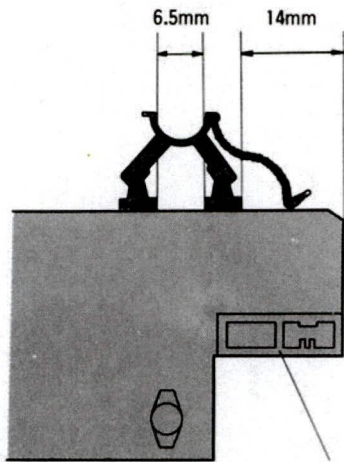
25



| ENGLISH  | FRENCH     | GERMAN     | SPANISH    | ITALIAN       |
|----------|------------|------------|------------|---------------|
| BLACK    | NOIR       | SCHWARZ    | NEGRO      | NERO          |
| SILVER   | ARGENT     | SILBERN    | PLATA      | ARGENTO       |
| GUNMETAL | METALLIC   | METALLIC   | METALICO   | METALLICO     |
| METALLIC | METALLIC   | METALLIEK  | METALICO   | METALLICO     |
| GRAY     | GRIS       | GRAU       | GRIS       | GRIGIO        |
| LT GRAY  | GRIS CLAIR | HELLGRAU   | GRIS CLARO | GRIGIO CHIARO |
| RED      | ROUGE      | ROT        | ROJO       | ROSSO         |
| YELLOW   | JAUNE      | GELB       | AMARILLO   | GIALLO        |
| BLUE     | BLEU       | BLAU       | AZUL       | BLU           |
| ORANGE   | ORANGE     | ORANGE     | NARANJADO  | ARANCIO       |
| GREEN    | VERT       | GRUN       | VERDE      | VERDE         |
| BROWN    | BRUN       | BRAUN      | MARRON     | MARRONE       |
| FLAT     | TERNE      | GLANZLOSES | APAGADO    | OPACO         |
| CLEAR    | CLAIR      | KLAR       | CLARO      | CHIARO        |

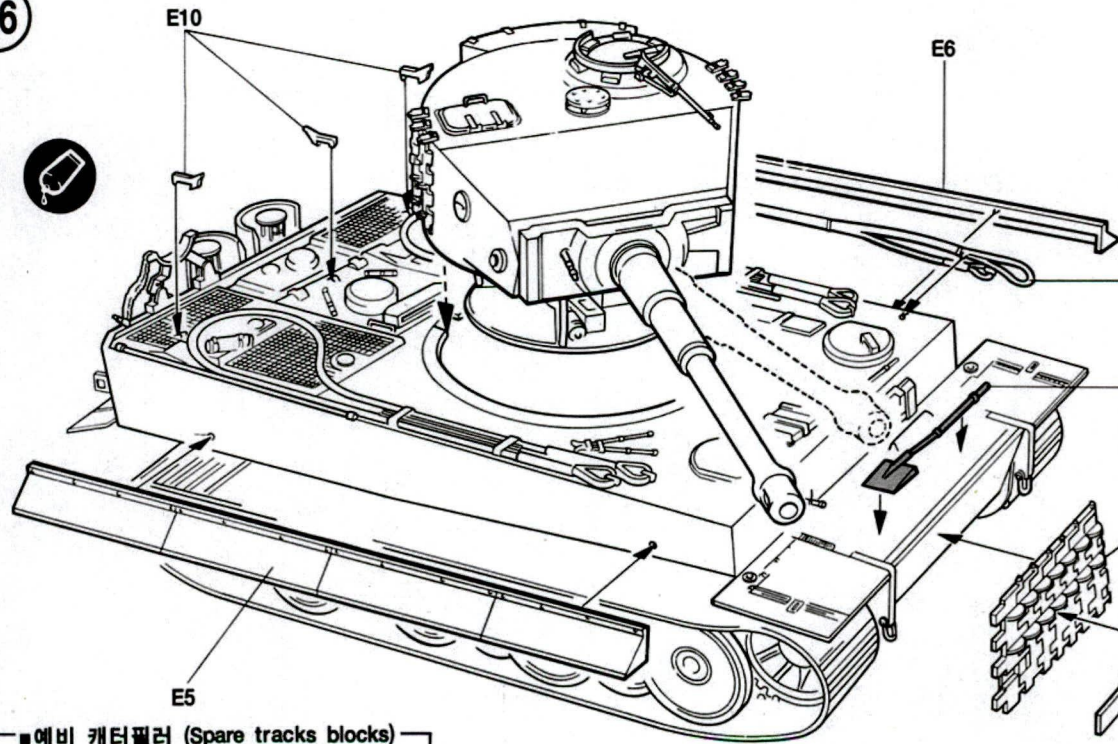


중기 표준형인 경우 부착한다.  
Attached to Mid-standard type.



차체 후부 우측 Right of Rear

26



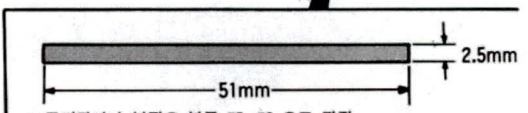
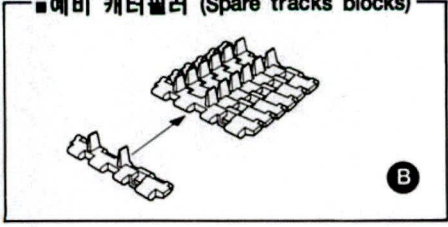
▶ 흑철색  
Metallic gray  
B17

D24

B

예비 캐터필러  
Spare track b

■ 예비 캐터필러 (Spare tracks blocks)



● 폴리아미나 불필요 부품 E5, E6 으로 자작  
(Make to use of styrene sheet or useless E5, E6 parts)

### < 짜메리트 코팅하는 방법 >

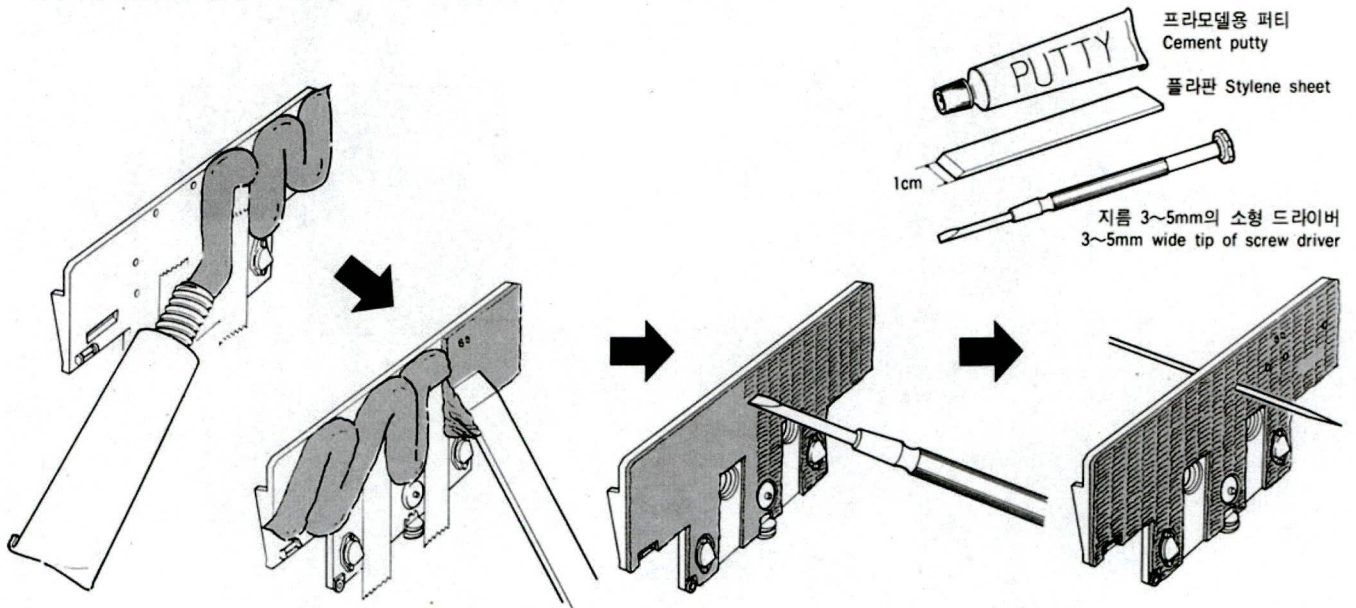
연합국 측의 자기 흉착 지뢰 사용을 예상한 독일군은 1943년 말엽부터 그 방어책으로 차체와 포탑의 수직면에 시멘트 (짜메리트 : Zimmerit)코팅을 전체적으로 실시하게 된다. 프라모델에서는 페티를 사용하여 묘사할 수 있다.

1. 먼저 프라모델용 페티, 소형 드라이버, 폭 1cm가량의 길다란 플라판을 준비한다.
2. 코팅이 되지 않는 부분에는 미리 셀로판 테이프등으로 마스킹을 해 놓은 뒤 코팅 후 페티가 반쯤 굳었을 때 조심스럽게 떼어낸다.
3. 코팅을 할 부분에 페티를 바른 후, 준비한 플라판으로 페티를 두께 1mm정도가 되도록 골고루 평평하게 편다. (한꺼번에 넓은 면적을 하지 않도록 주의.)
4. 앞맞은 지름(3~5mm정도)의 소형 드라이버로 코팅 마크를 찍어 나간다.
5. 페티로 메꾸어진 부품의 핀구멍등은 내측에서 자리를 찾아 핀바이스나 바늘등으로 뚫어준다.
6. 실제로 작업에 들어가기 전에 못쓰는 부품이나 플라스틱 조각등에 충분히 연습을 해보는 것이 좋다.

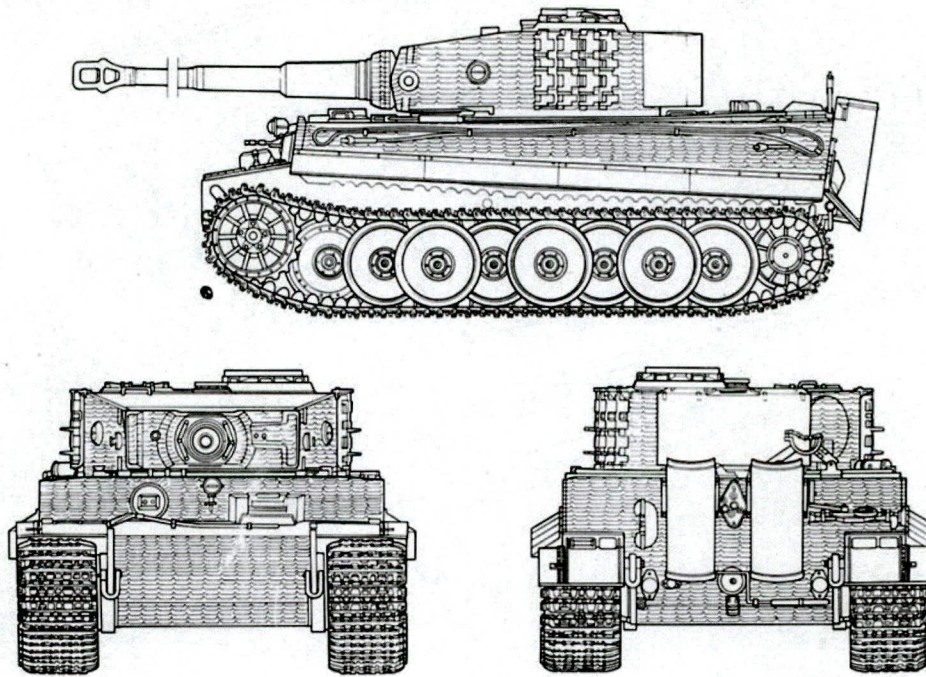
### < HOW TO APPLY ZIMMERIT COATING >

Late in the WWII, 'Zimmerit' cement coating was applied to the vertical surfaces of the hull and turret to help prevent magnetic mines for Allied.

1. Material required cement putty for plastic, flat styrene sheet, and small sized screw driver as shown.
2. Not applied portions temporarily mask with cellophane tape.
3. Apply a 1mm thick coating of putty use of flat styrene sheet to the surface refer to diagrams.
4. Make the putty coating use of the 3~5mm wide tip of screw driver to simulate the corrugated patterns.
5. When the parts locating holes fill with putty, reopen from the inside use of needle or drill.
6. It is recommended you practice using unused plastic parts before work on the actual kit.

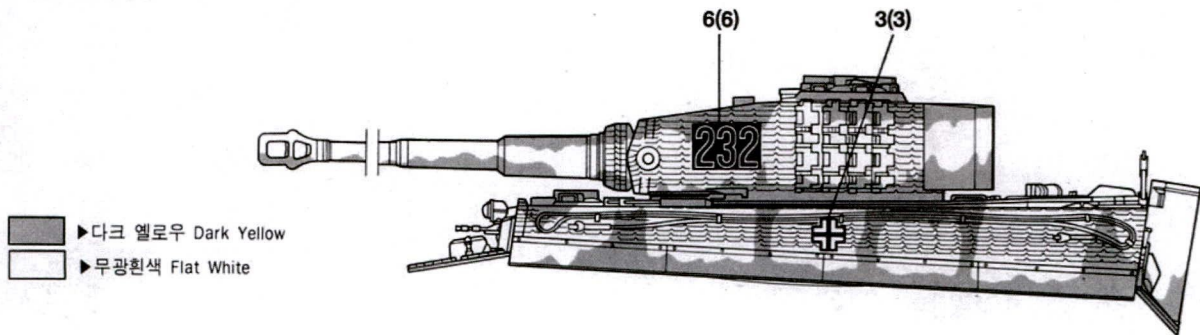


### 【 짜메리트 코팅면 참고도(Reference Diagram of Zimmerit Coating) 】

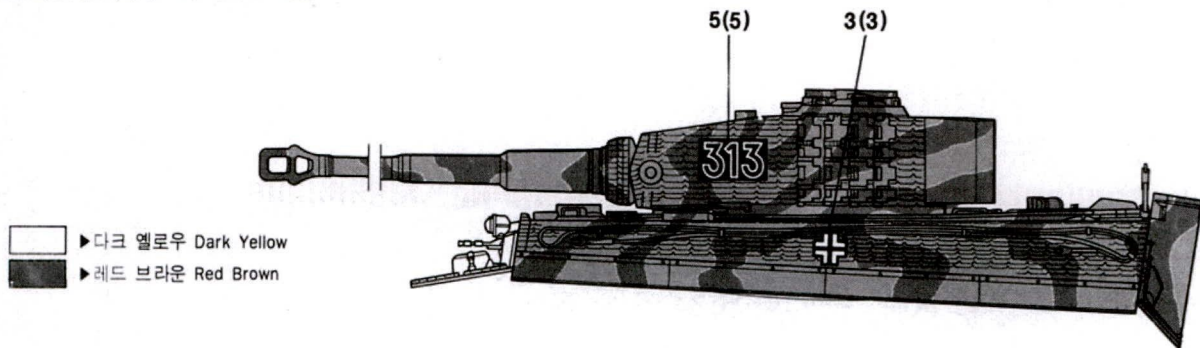


A-제505 중전차대대(505th Heavy Tank Battalion)  
1944년 3월 러시아. Russia, March 1944.

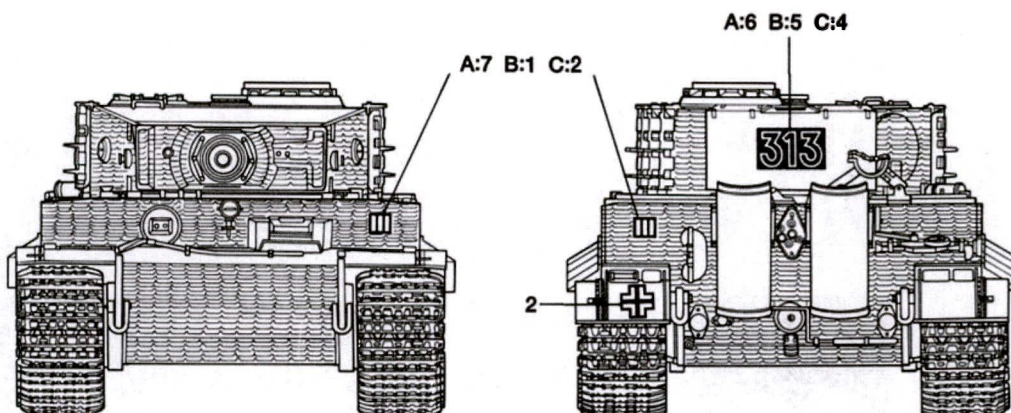
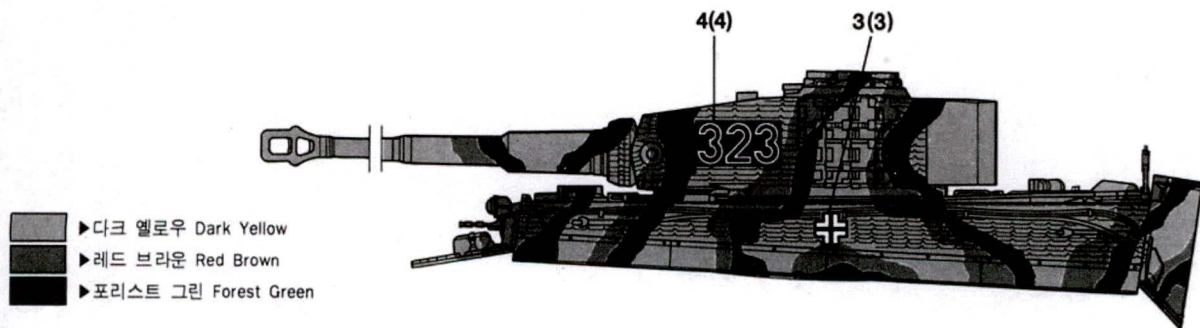
\* ( )는 반대측 번호임.  
( ) is opposite Number.

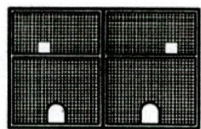
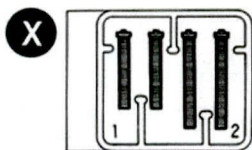
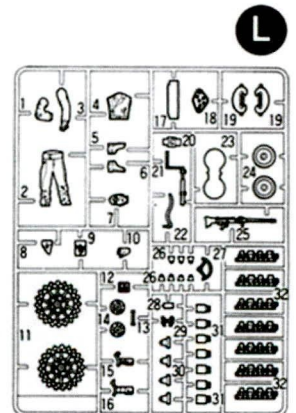
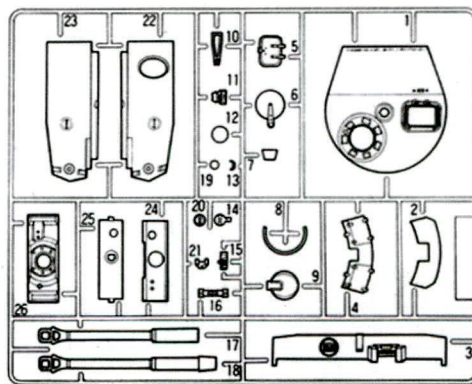
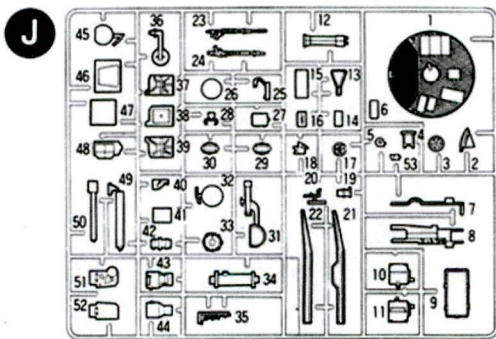
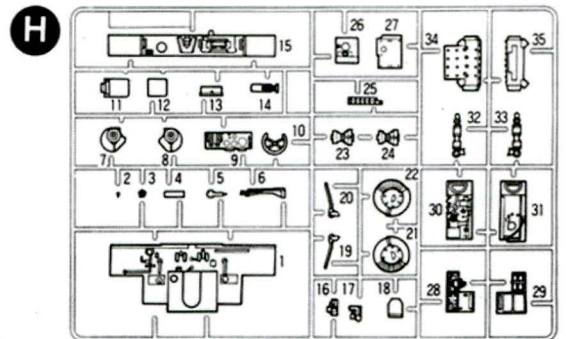
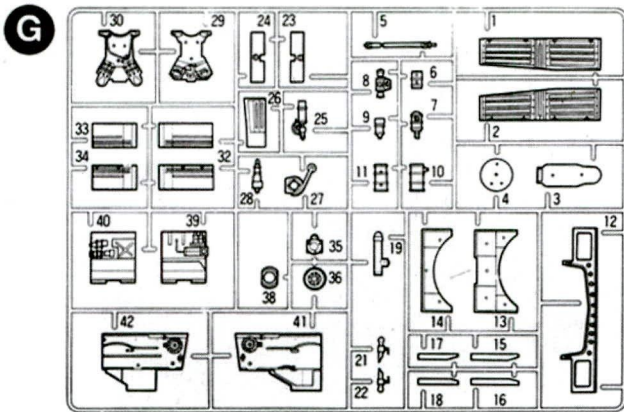
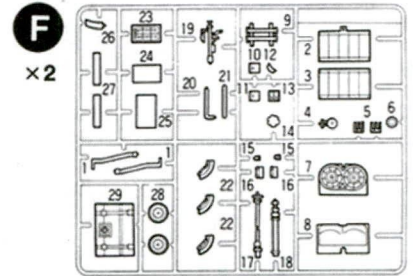
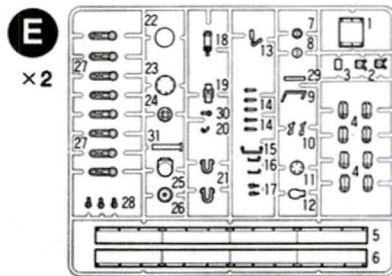
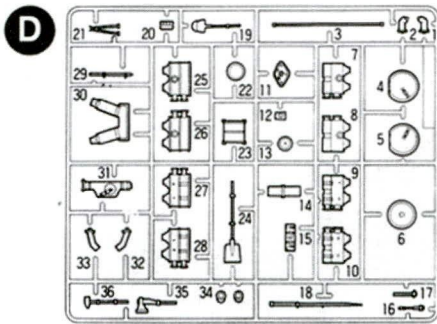
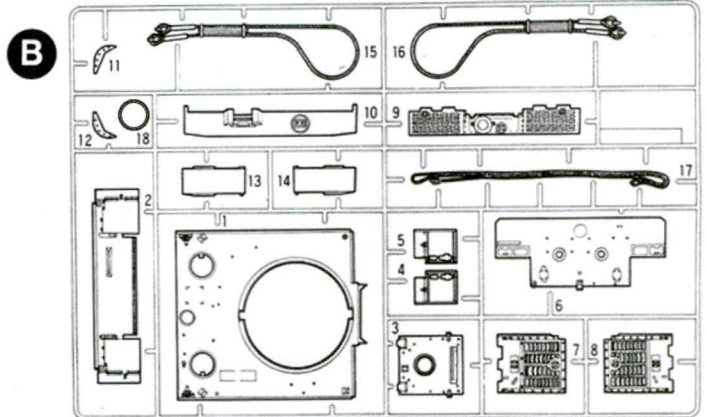
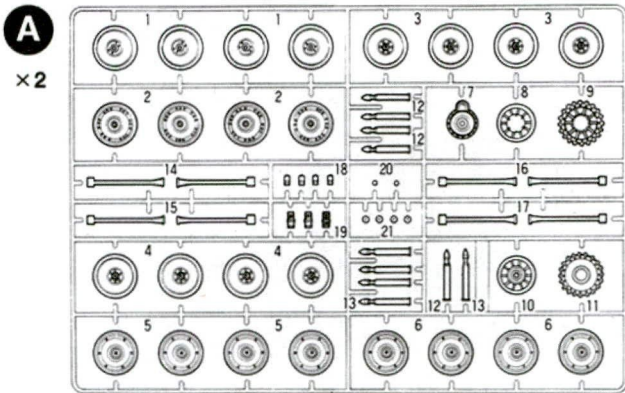


B-제3SS 전차사단 '토텐코프' (3rd SS Panzer Division)  
1944년 6월 러시아. Russia, June 1944.

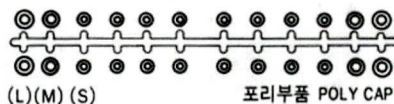


C-제101SS 중전차대대(101st Heavy Tank Battalion)  
1944년 6월 노르망디, 프랑스. Normandy, France. June 1944





● 예칭부품  
PHOTO-ETCHED PART × 1



- 하체 LOWER HULL × 1
- 연질 캐터필러 FLEXIBLE TRACKS × 2
- 예비 캐터필러 SPARE TRACKS × 1

\* 불필요부품 (Unused Parts)  
A9, A21, B10, D16, D20, D7, D8, D9, D10, D11,  
D12, E2, E5×1, E6×1, E10×1, E17, E7, E9,  
E28, F1×1, F5×1, F6×1, F15×1, F16×1, F22  
F26×1, F28, G3, G27, G28, H10.

**ACADEMY**  
HOBBY MODEL KITS

**ACADEMY**  
ACADEMY PLASTIC MODEL CO., LTD.  
521-1, Yonghyeon-dong, Uijeongbu-si, Gyeonggi-do, Korea  
고객상담문의: 080-969-7000