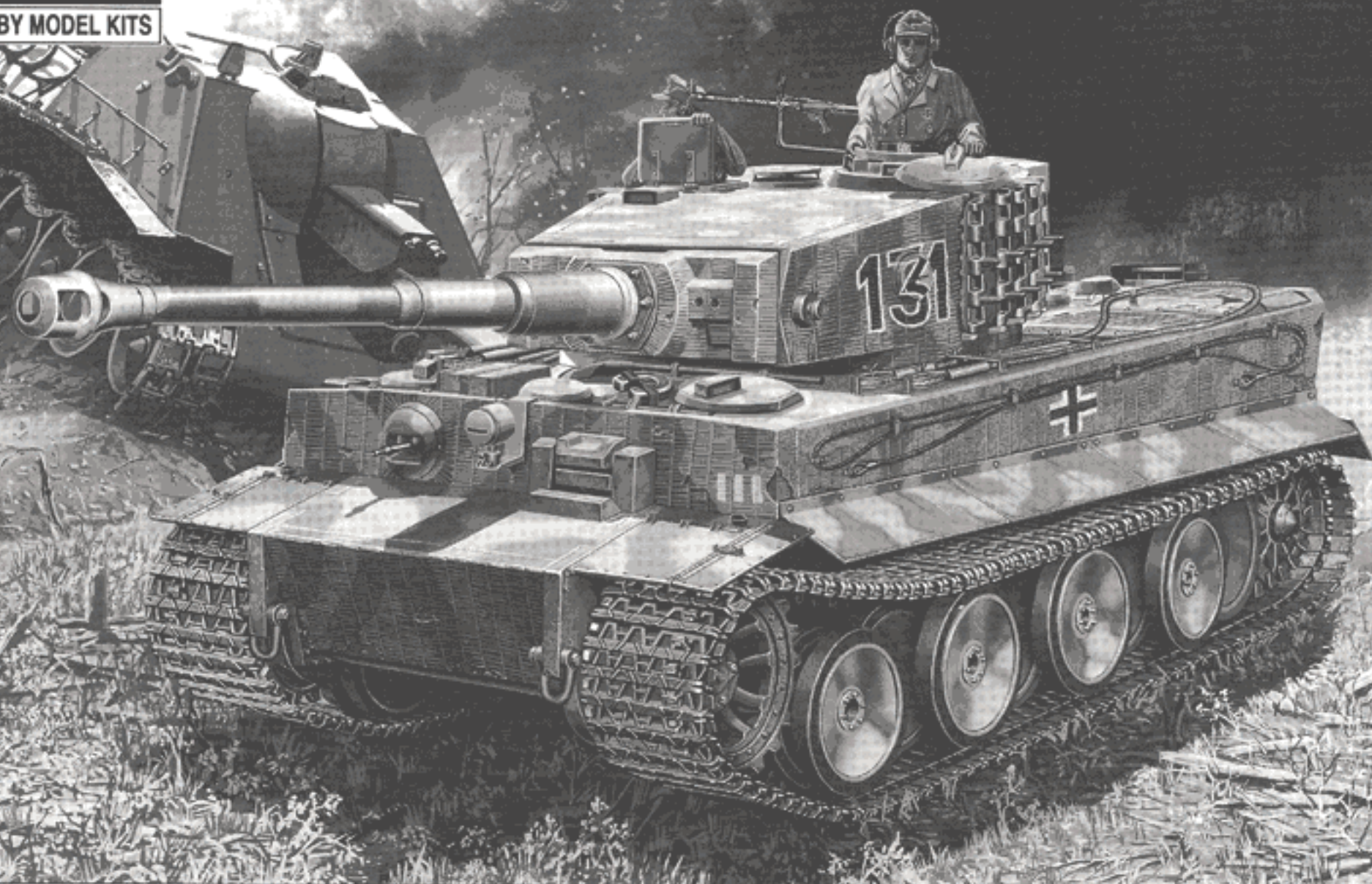


ACADEMY

HOBBY MODEL KITS

독일육군 중전차 타이거-1 중기형



TA983

GERMAN HEAVY TANK

1/35TH SCALE

TIGER-I
MID PRODUCTION VERSION

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 (10'-1")
- Height : 3.00 m (9'-10")

TRACK WORK

- Type : Single line
- Centers : 2.82 m (9'-3 1/2")
- Width : 0.725 m (24'-1")

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

- HENSCHIEL 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 : HENSCHIEL 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
- 신뢰각 : 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 성형착약탄 및 고풍탄 : 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 전,후 역셀 에 쇼크 업소버 장착

조향장치

- 헨셀 L600C 디퍼런셜 복렬 유압 조종식

연료저장량

- 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(越壕)반경 : 1.8 m

장 갑

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

조준장치

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

승무원

- 5명 - 전차장, 포수, 조준수, 조종수, 무선수/기관총 사수

생 산

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

#1387

■ 조립하기전에

- 제품을 조립하기전에 설명서를 끝까지 잘 읽어본다.
- 부품을 자를때에는 칼이나 니퍼로 깨끗이 잘라준다.
- 접착하기전에 부품을 맞추어 확인한 후 접착한다.
- 접착제를 사용할 곳과 사용하지않는 곳에 주의하고 너무 많이 바르지 않도록 한다.
- 에나멜 페인트나 접착제를 사용할때에는 창문을 열어 환기를 시키고 화기를 멀리한다.

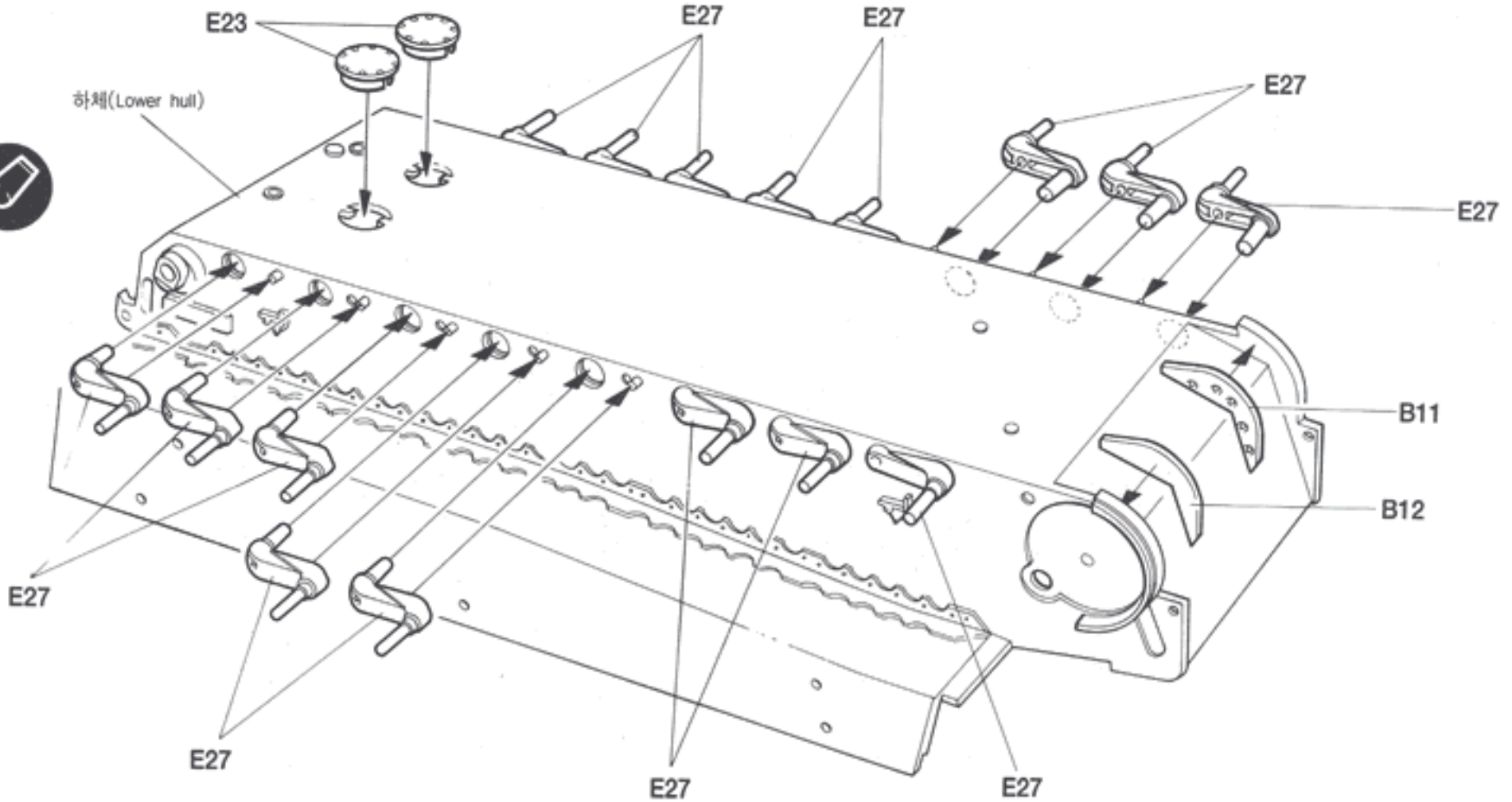
- 직매점 겸 A/S센터
- A/S센터
- 총판점 겸 A/S센터
- 유통사업부
- 홈페이지
- ◆ 고객상담문의

삼선교 : 742-9293, 방배동 : 552-9293, 양재동 : 575-9997
 용산 : 796-1214, 아셈하비센터 : 6002-6293
 본사 : 908-7000(교환 147), 동대문 : 745-9293
 원아카데미 : 907-0940, 양천아카데미 : 2691-7108, 강북아카데미 : 762-0960, 강남아카데미 : 485-6884
 AB학비 : (031)458-5591, 서면아카데미 : (051)816-9773, 대구아카데미 : (053)744-9293
 아카데미피렌디 : 586-9293
<http://www.academy.co.kr>
 080-969-7000

1

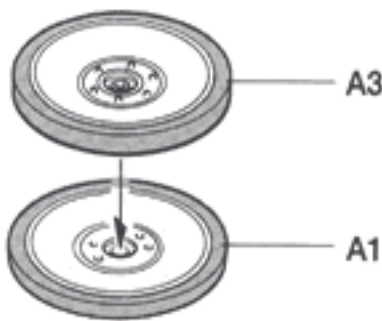
【 주 의 】 실물의 타이거-1 중기형에는 지메리트 코팅이 실시된 차량이 많으므로, 18페이지의 내용을 충분히 읽어 본뒤 조립을 시작한다.
 【 NOTE 】 Many vehicles are applied to Zimmerit cement coating, so please refer to 18page before assembly.

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



2

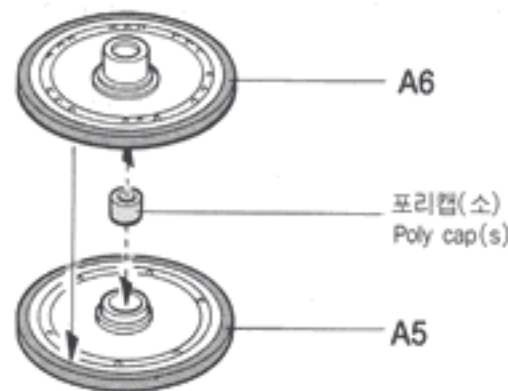
A 전륜 (Road wheel)



8

▶타이어: 무광검정색
 Tire: Flat Black

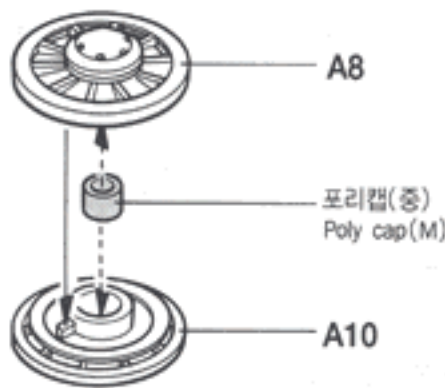
B 전륜 (Road wheel)



8

8

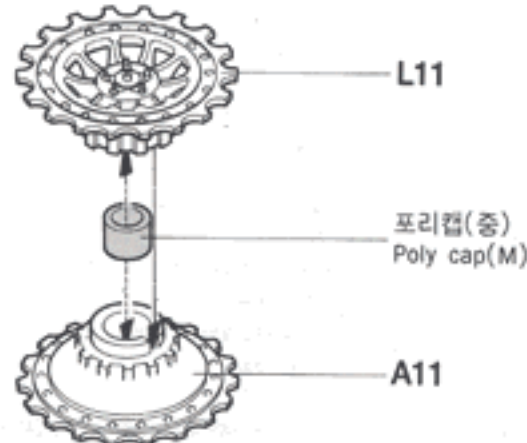
C 아이들러 휠 (Idler wheel)



2

2

D 기동륜 (Drive sprocket)



2

2

접착한다.
 Cement Parts
 Coller
 Kleben
 Pagar
 Incollare
 Colar
 Kleven

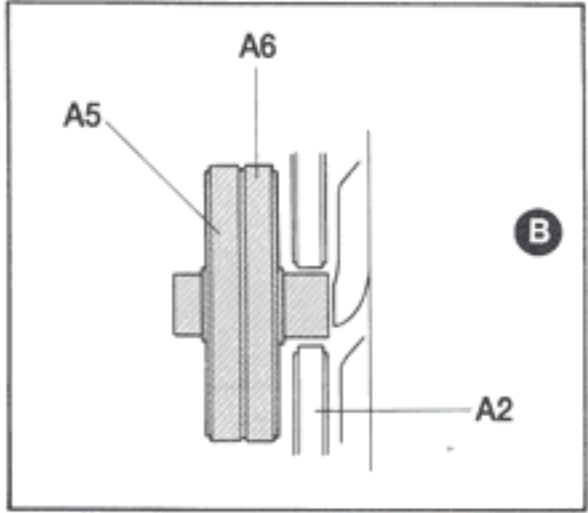
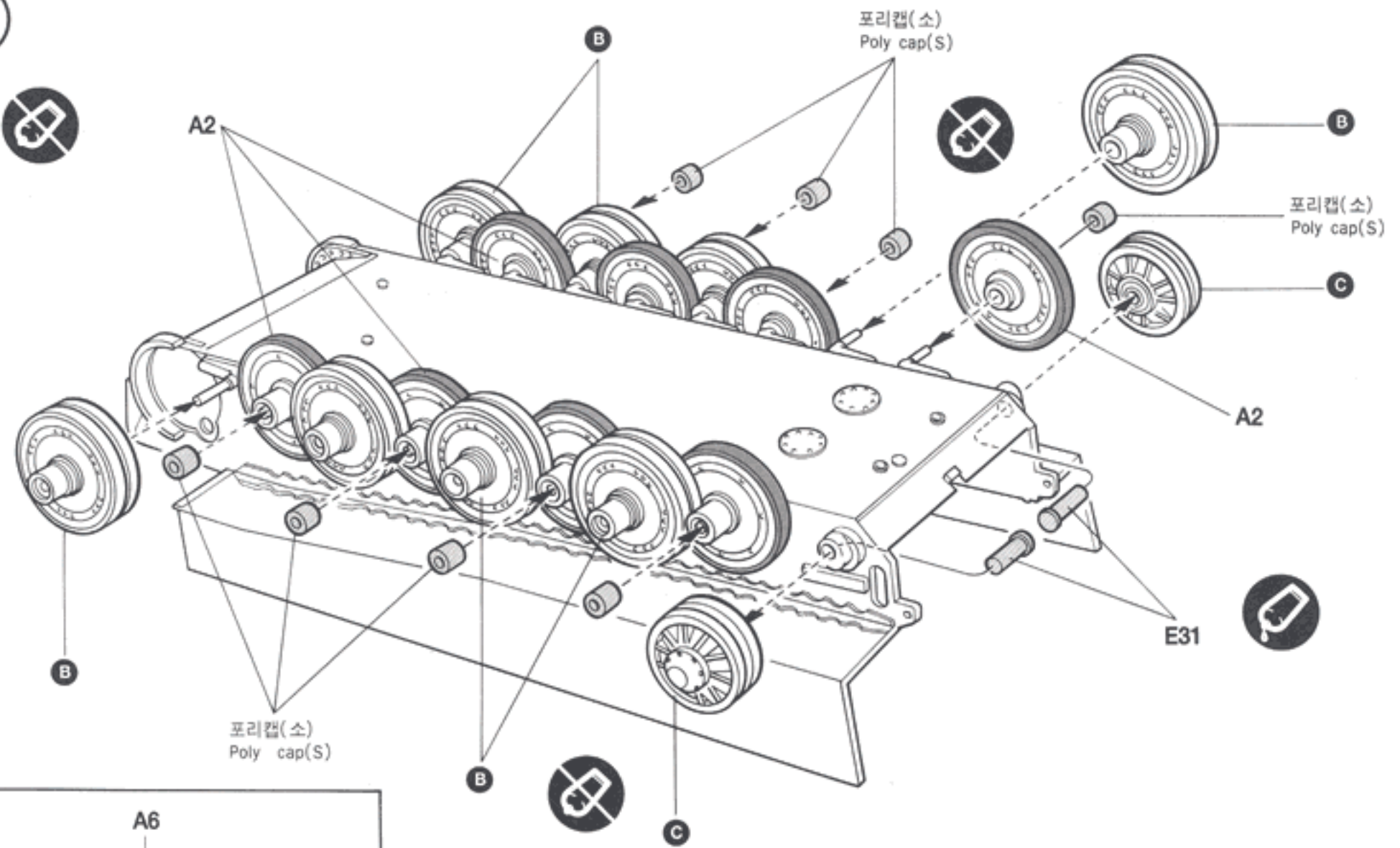
접착하지 않는다.
 DO NOT cement
 Ne pas coller
 Nicht kleben
 No pegar
 Non incollare
 Colar
 Niet kleven

잘라낸다.
 Cut away
 Couper
 scheiden
 Cortar
 Tagliare
 Cortar
 Snijden

선택한다.
 Optional parts
 Choix
 Auswahlmöglichkeit
 Eleccion
 Scelta
 Opcao
 Keuze

수반를 조립한다.
 Repeat operation
 Répéter l'opération
 Vorgang wiederholen
 Repetir la operación
 Ripetere
 Repetir a operação
 Herhalen

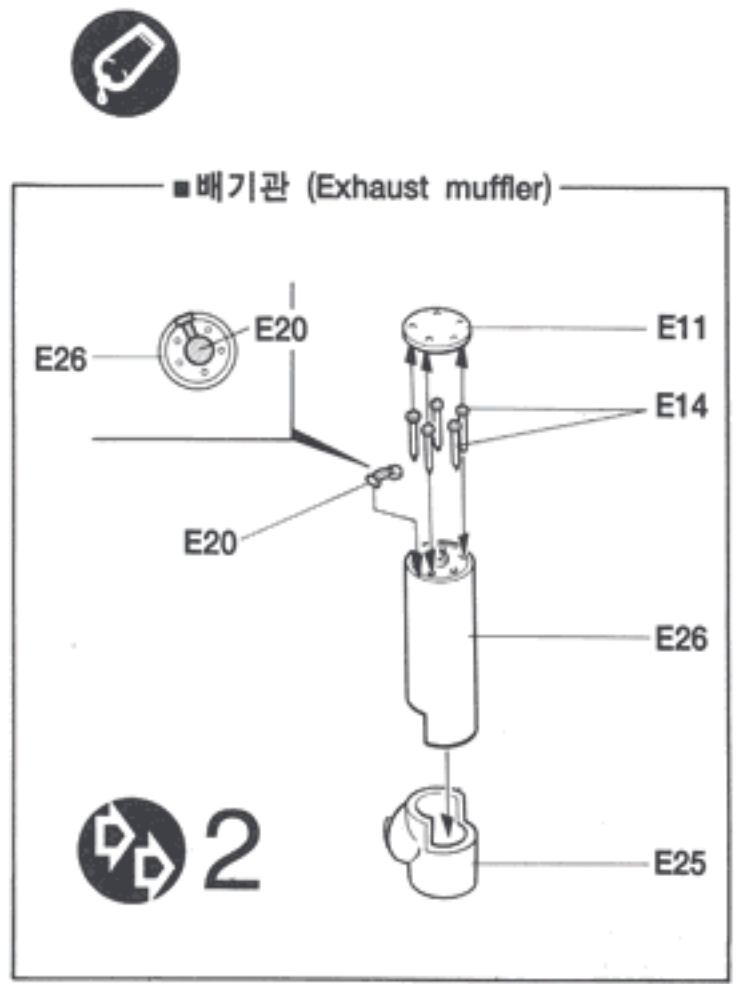
3



▶ 타이어: 무광검정색 Tire: Flat Black

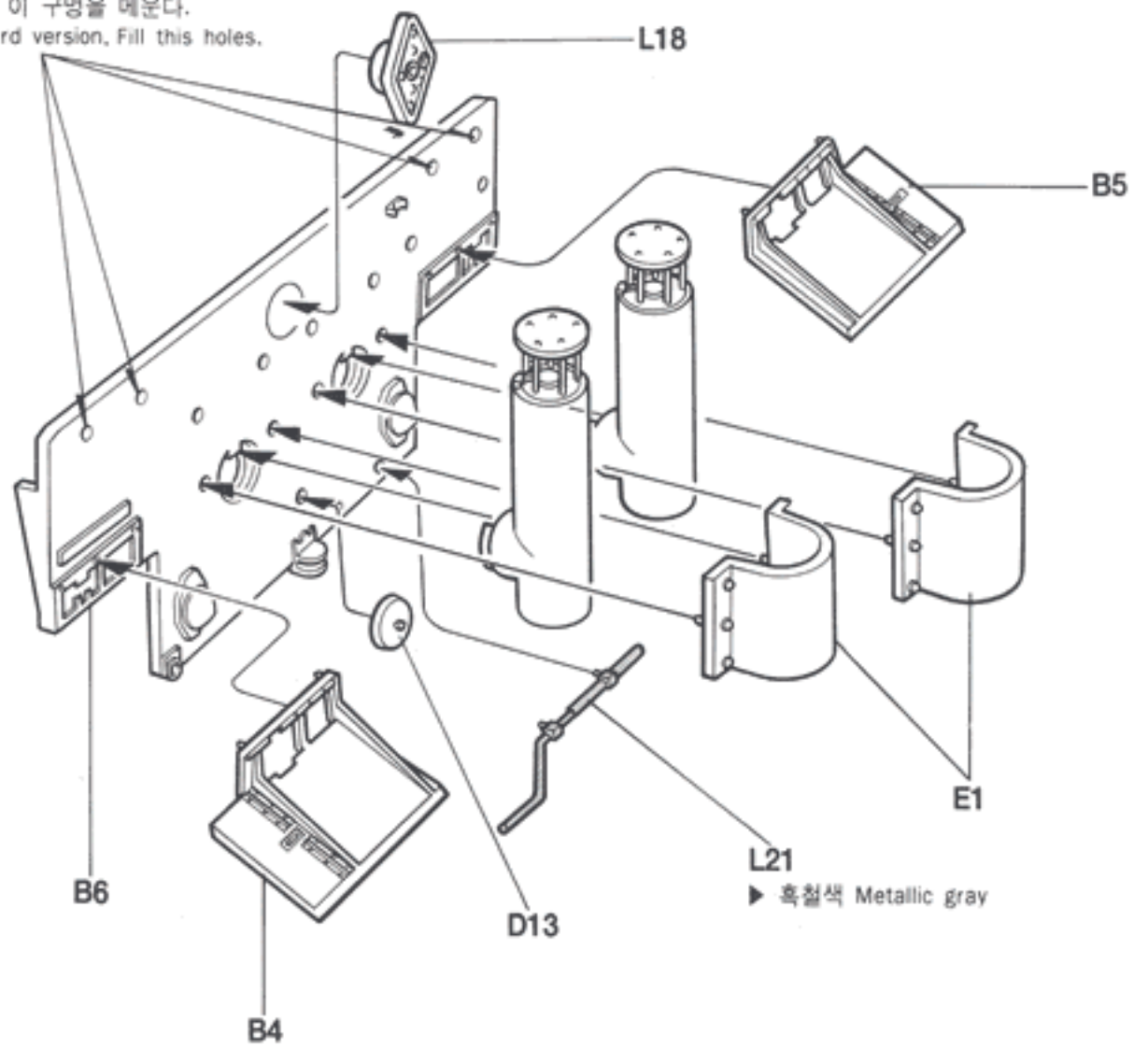
4

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



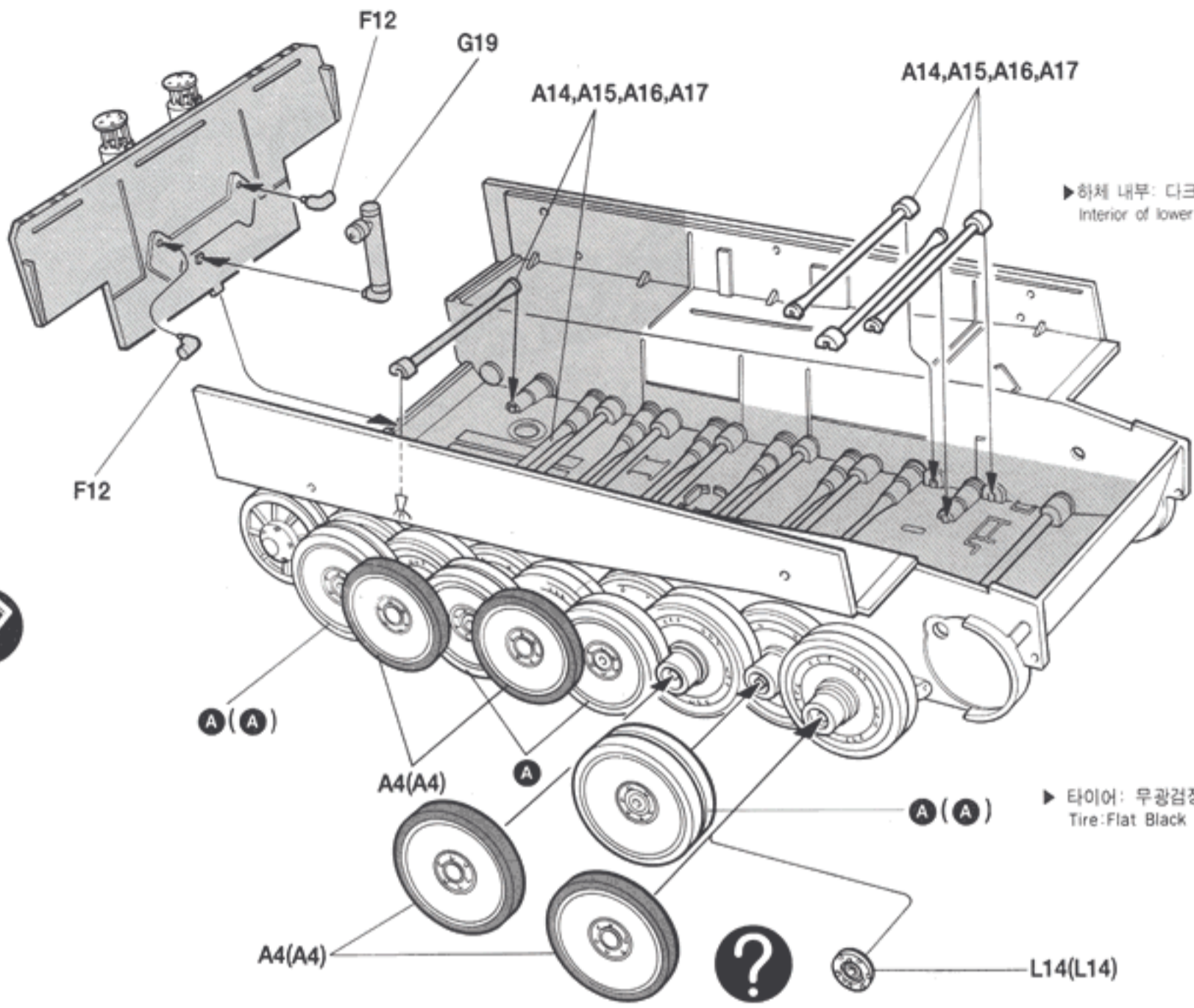
■ 배기관 (Exhaust muffler)

2



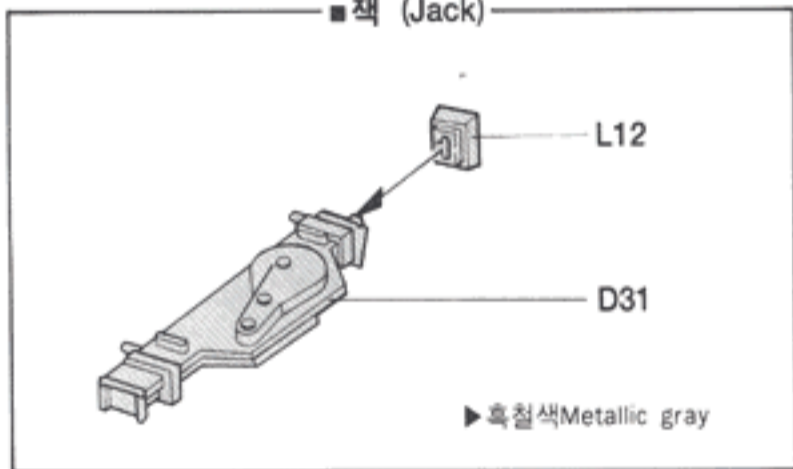
▶ 흑철색 Metallic gray

5

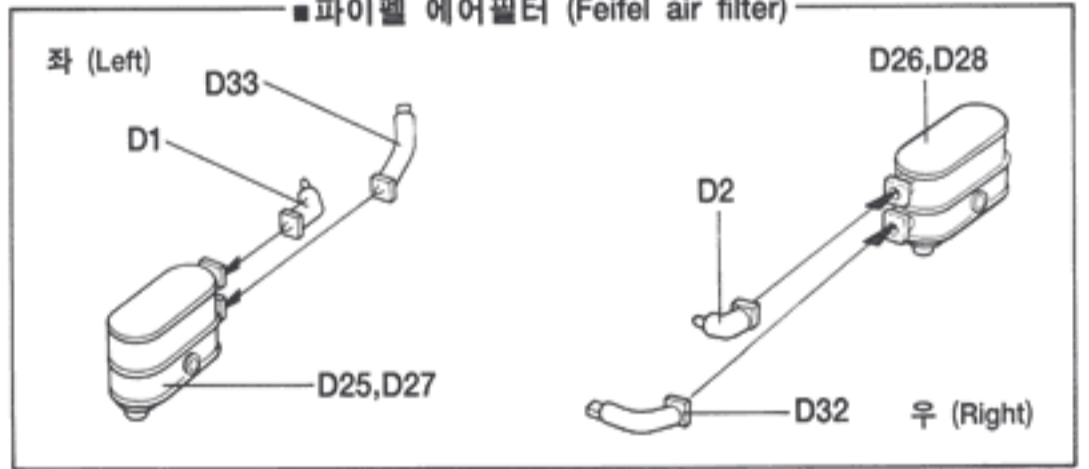


• 제1전륜만 선택 조립한다.
Option only first road wheel.

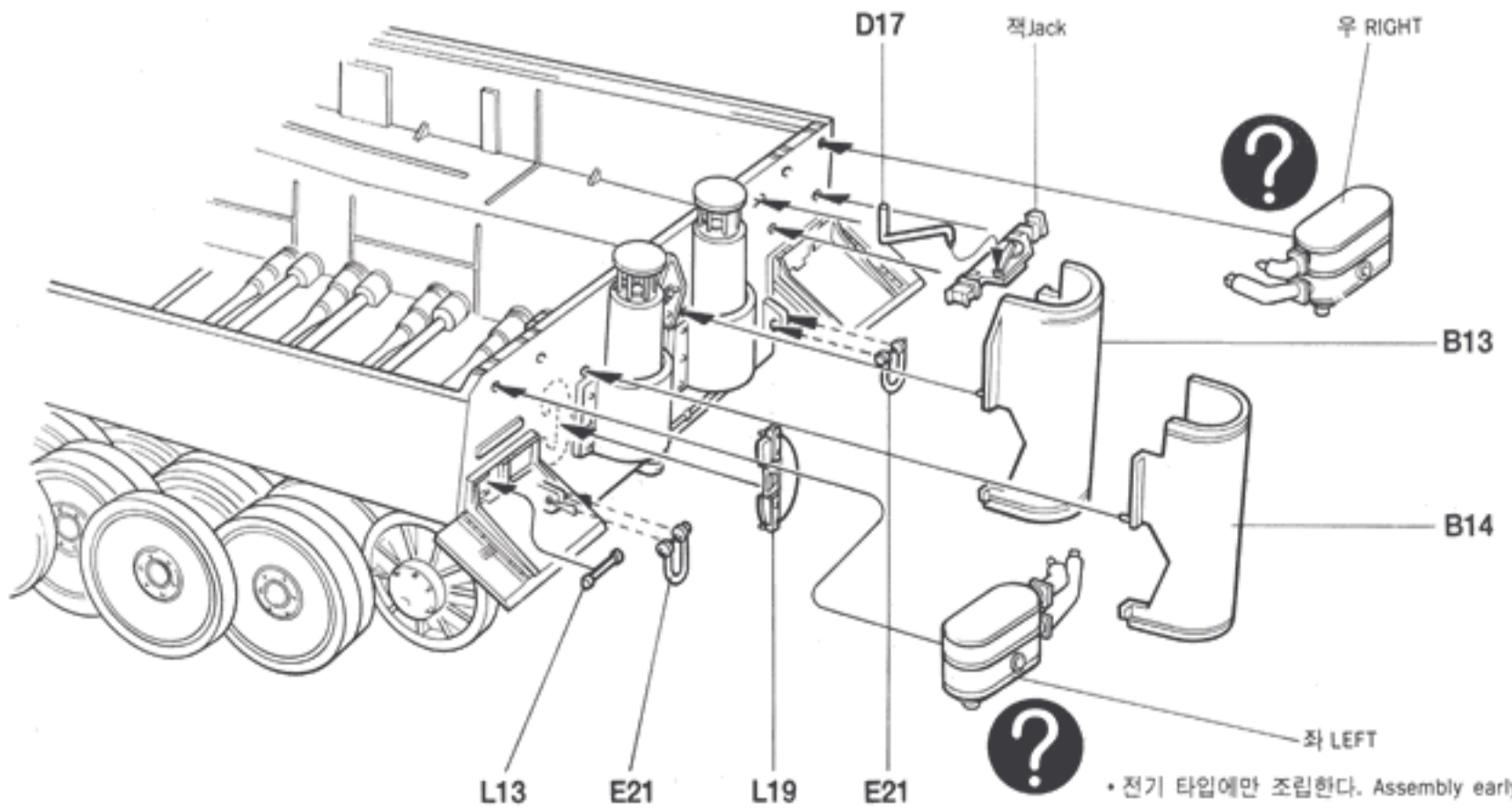
■ 잭 (Jack)



■ 파이렐 에어필터 (Feifel air filter)



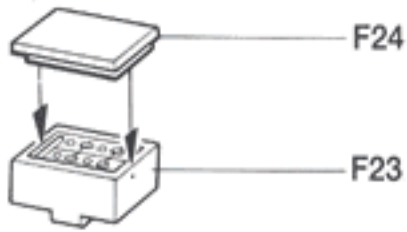
6



• 전기 타입에만 조립한다. Assembly early type only.

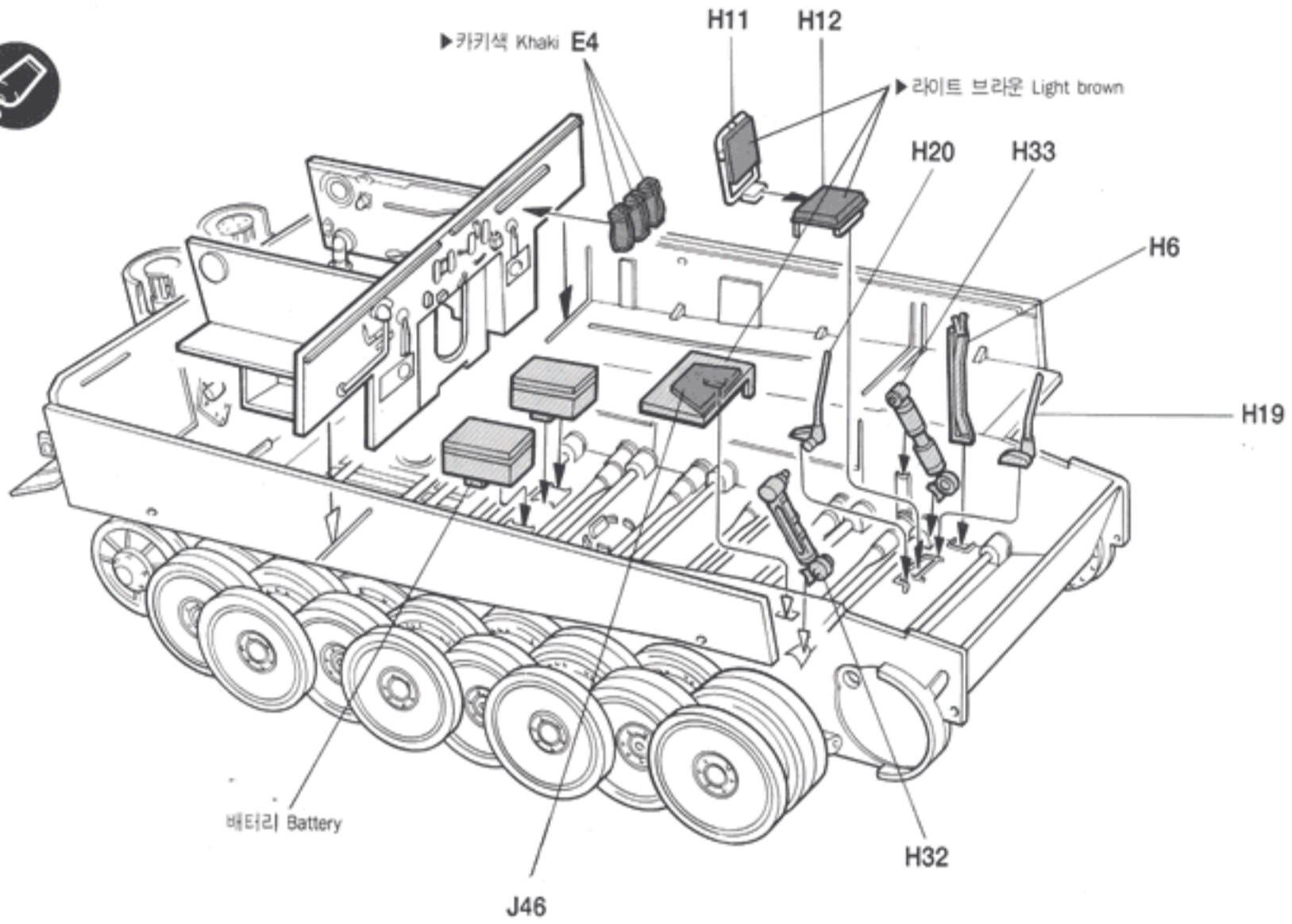
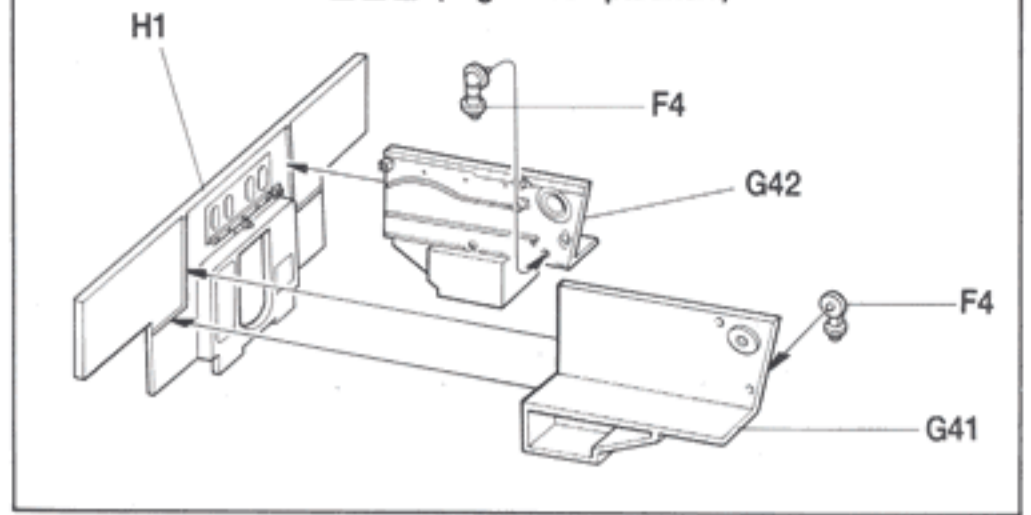
7

■ 배터리(Battery)



▶다크 그레이 Dark gray

■ 엔진실 (Engine compartment)



▶카키색 Khaki E4

▶라이트 브라운 Light brown

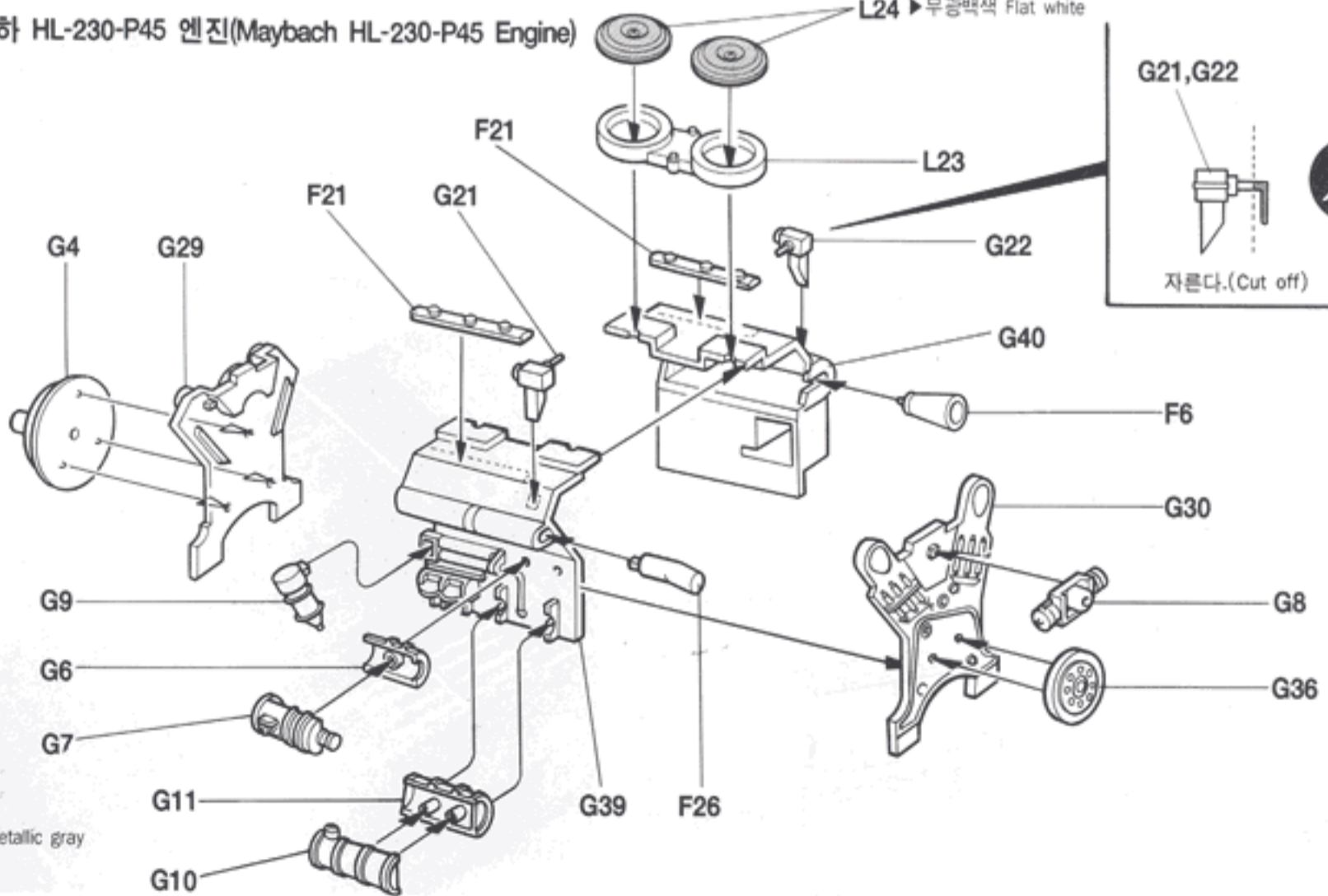
배터리 Battery

J46

8

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

L24 ▶무광백색 Flat white



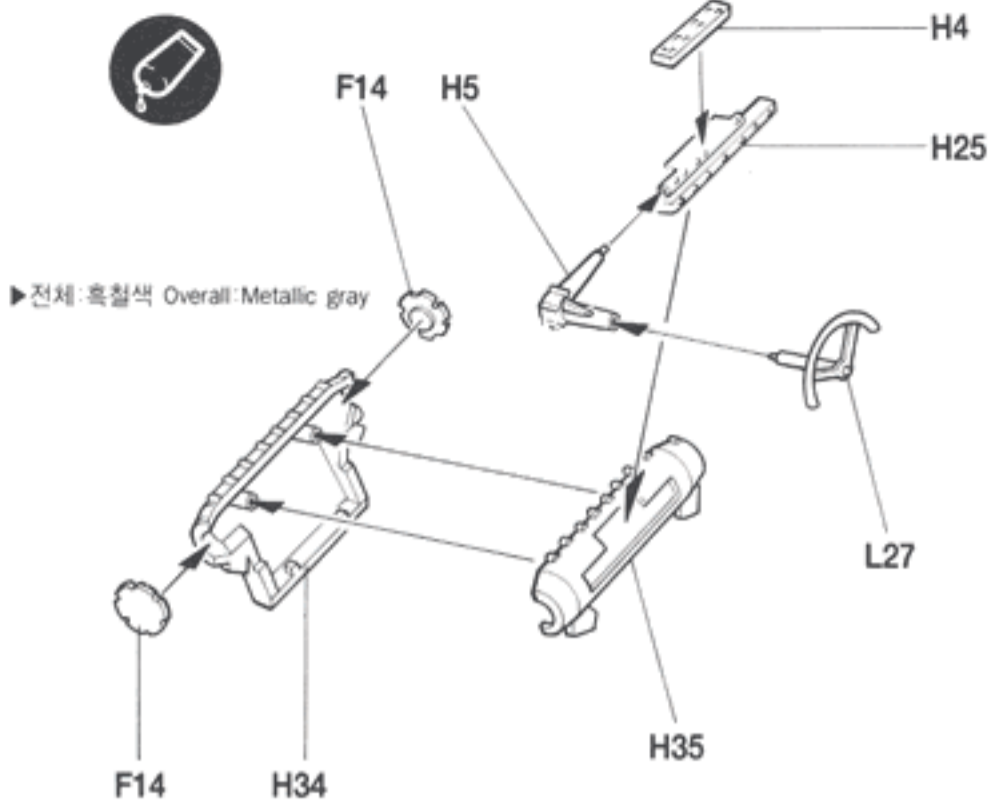
G21,G22

자른다.(Cut off)

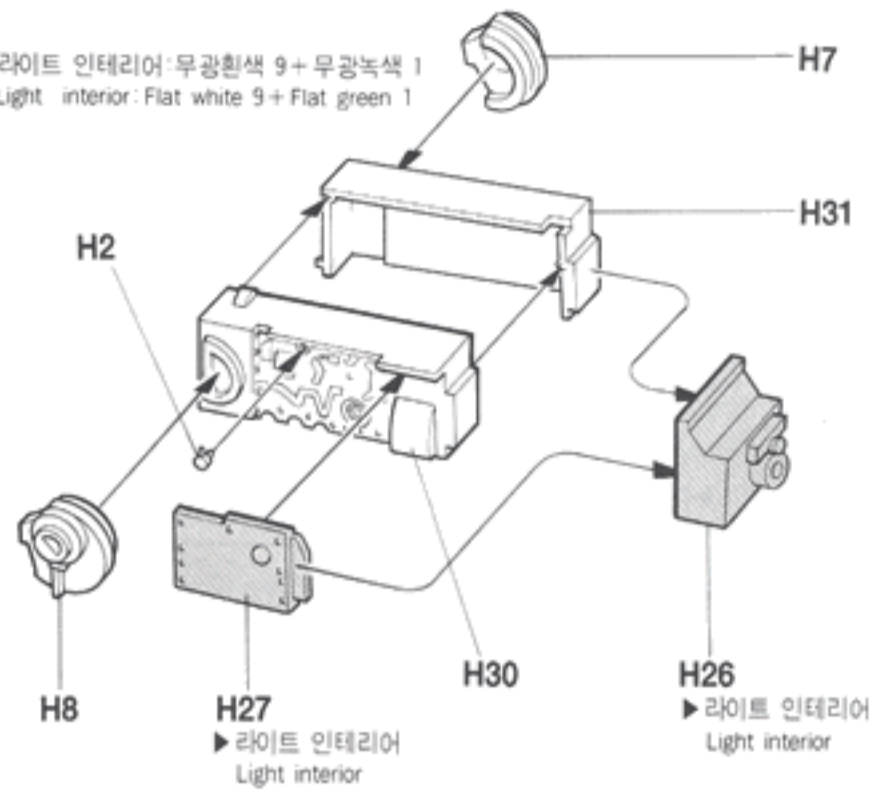
▶전체:흑철색 Overall: Metallic gray

9

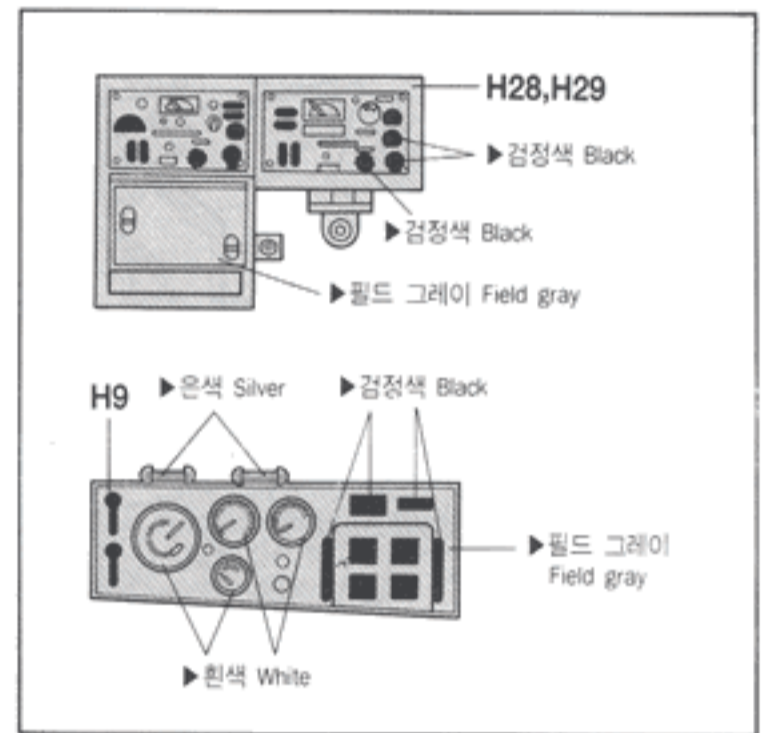
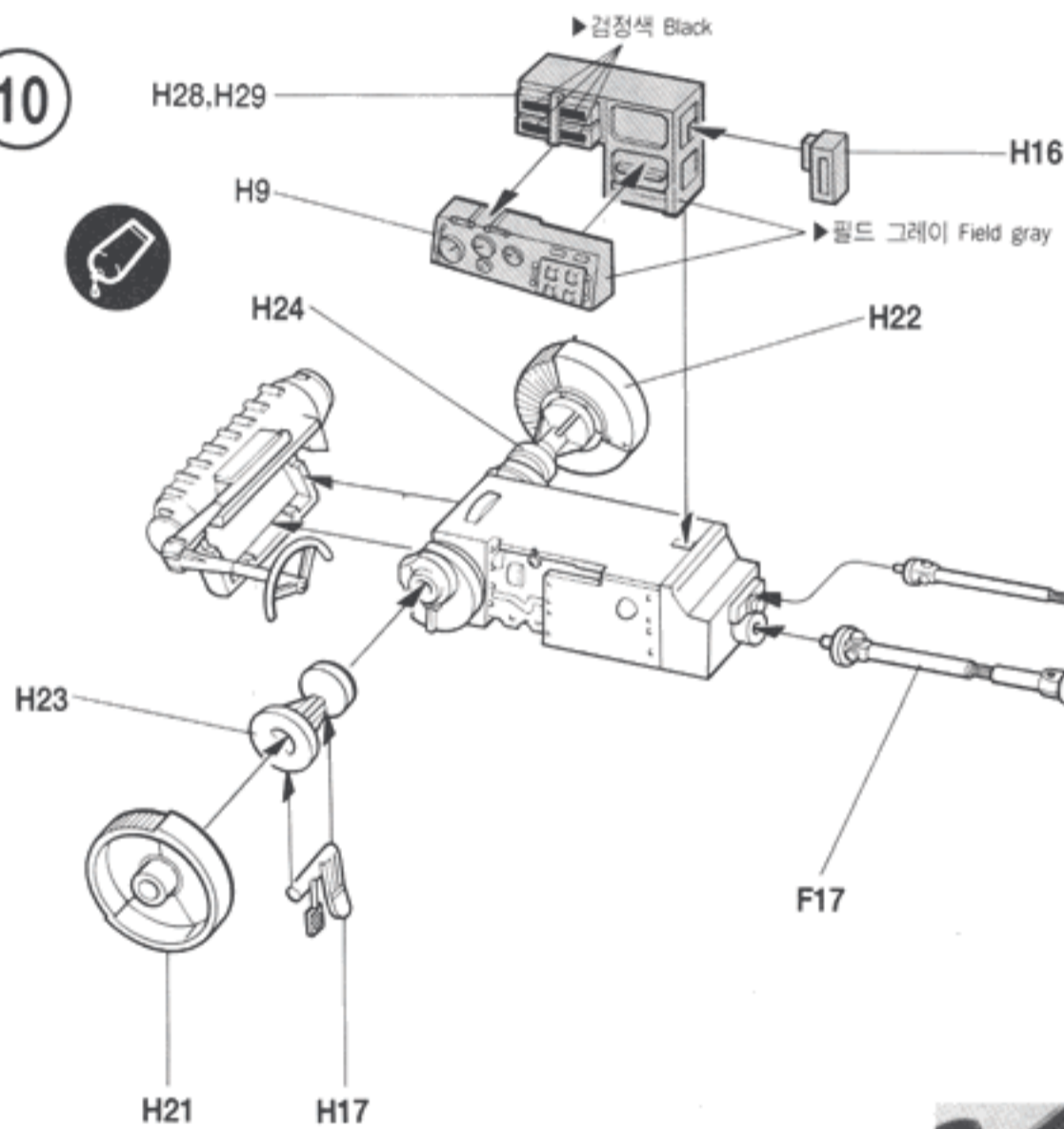
■ 올바게트리베 트랜스미션(Olva-ge tribe transmission)



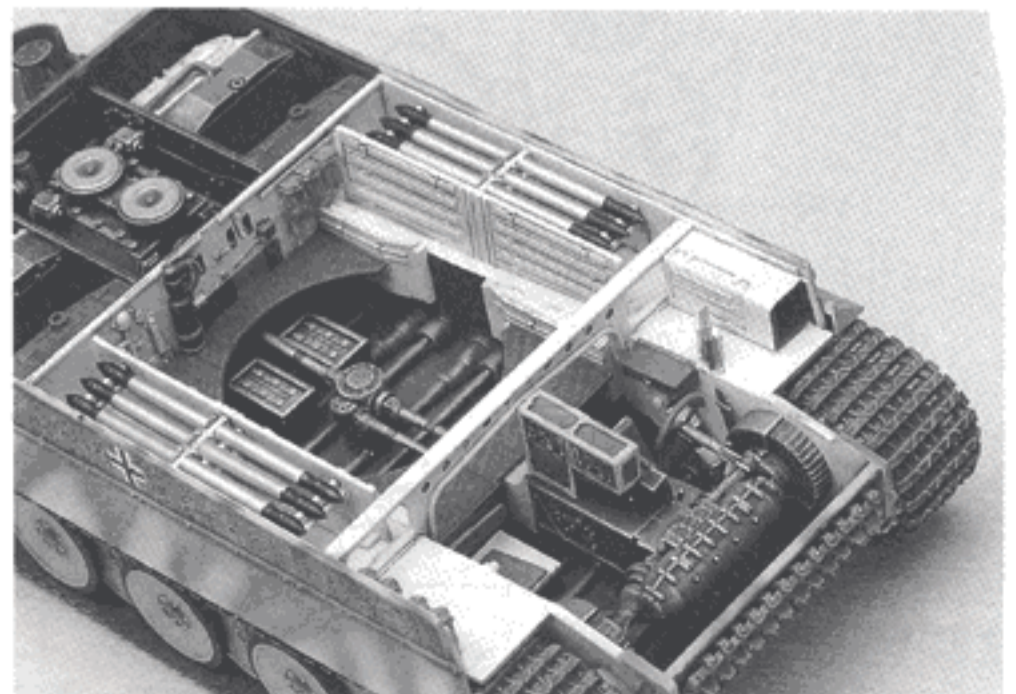
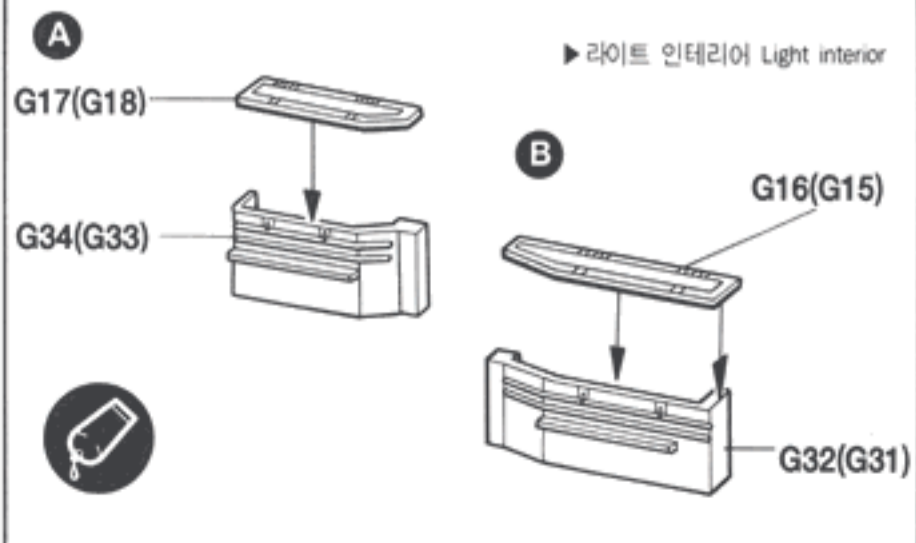
※ 라이트 인테리어: 무광흰색 9+ 무광녹색 1
Light interior: Flat white 9+ Flat green 1

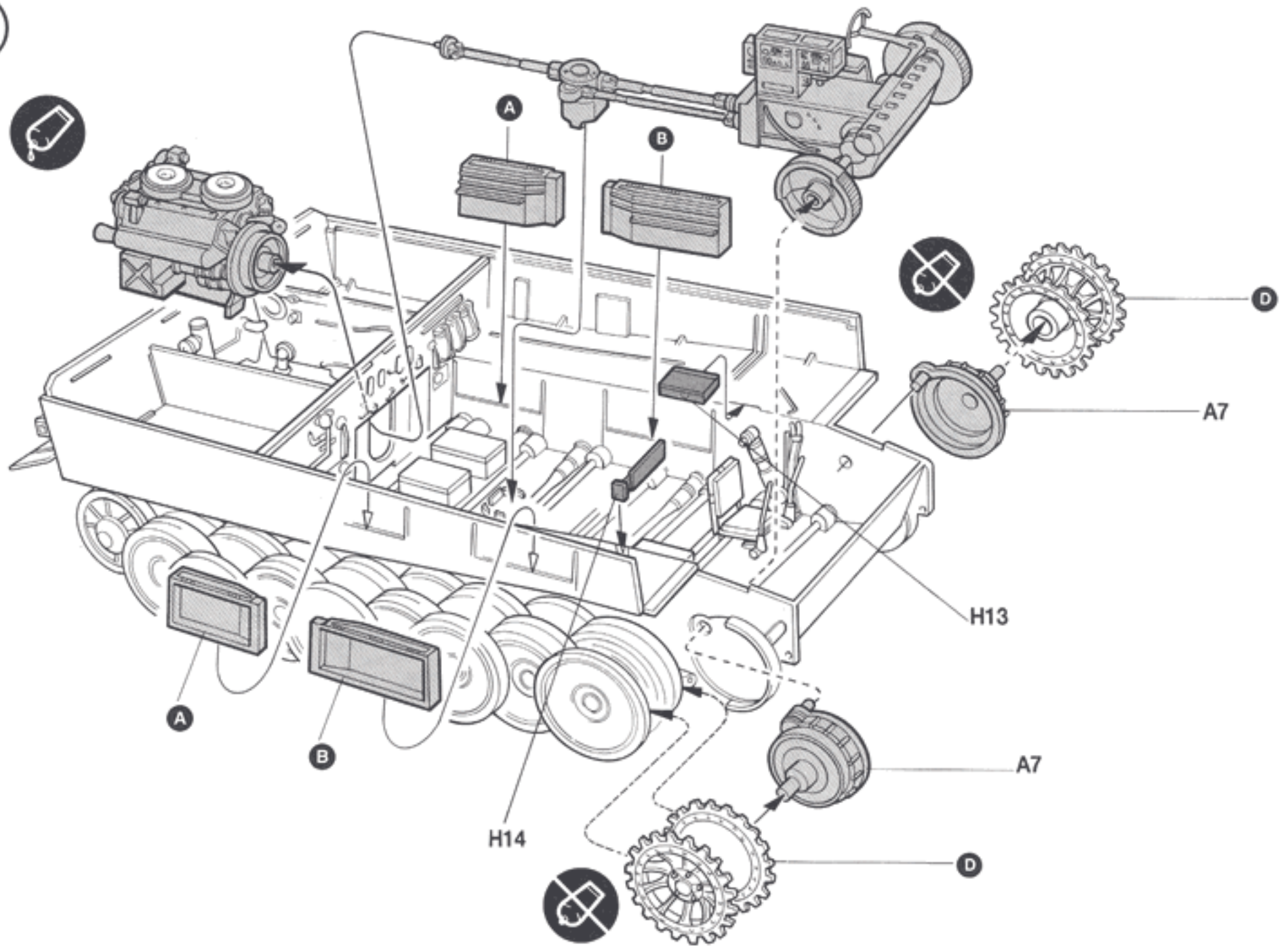


10

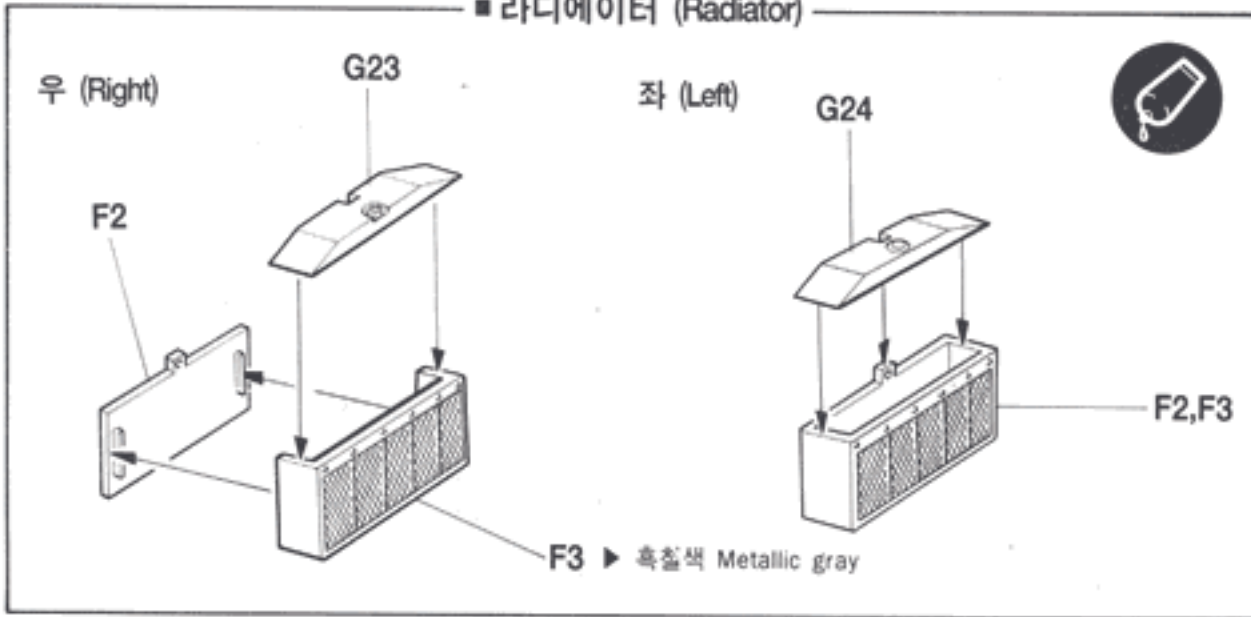


■ 탄약 적재함 A (Ammo storage A)

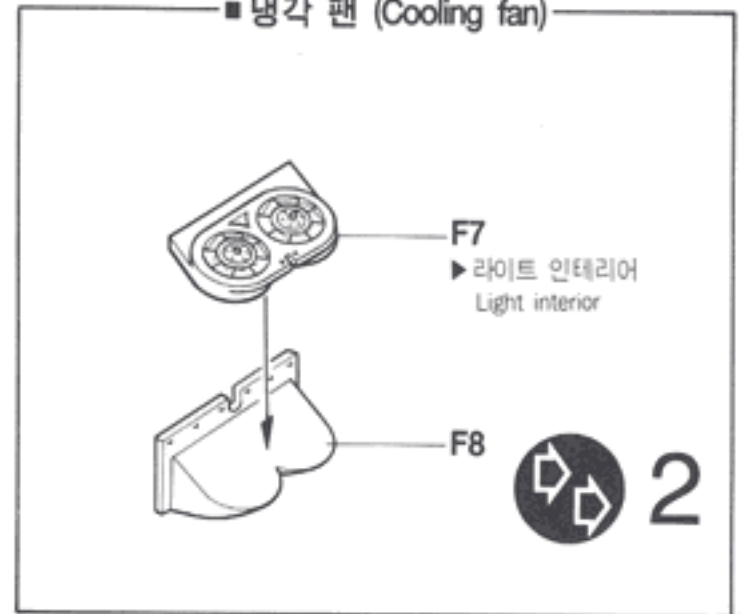




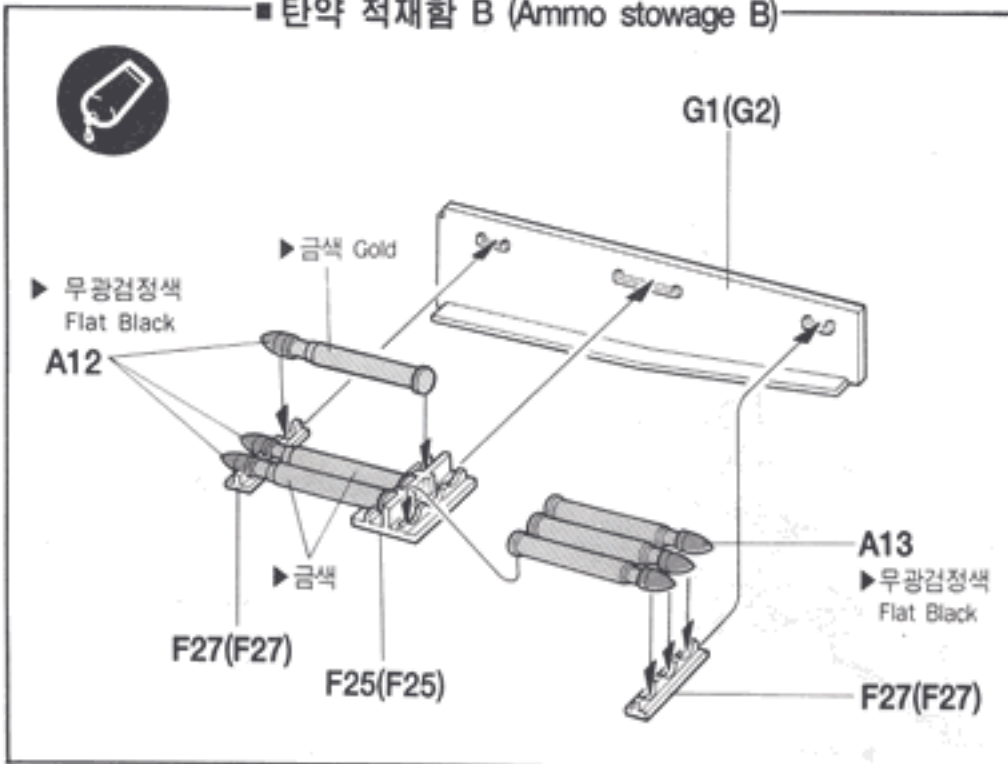
■ 라디에이터 (Radiator)



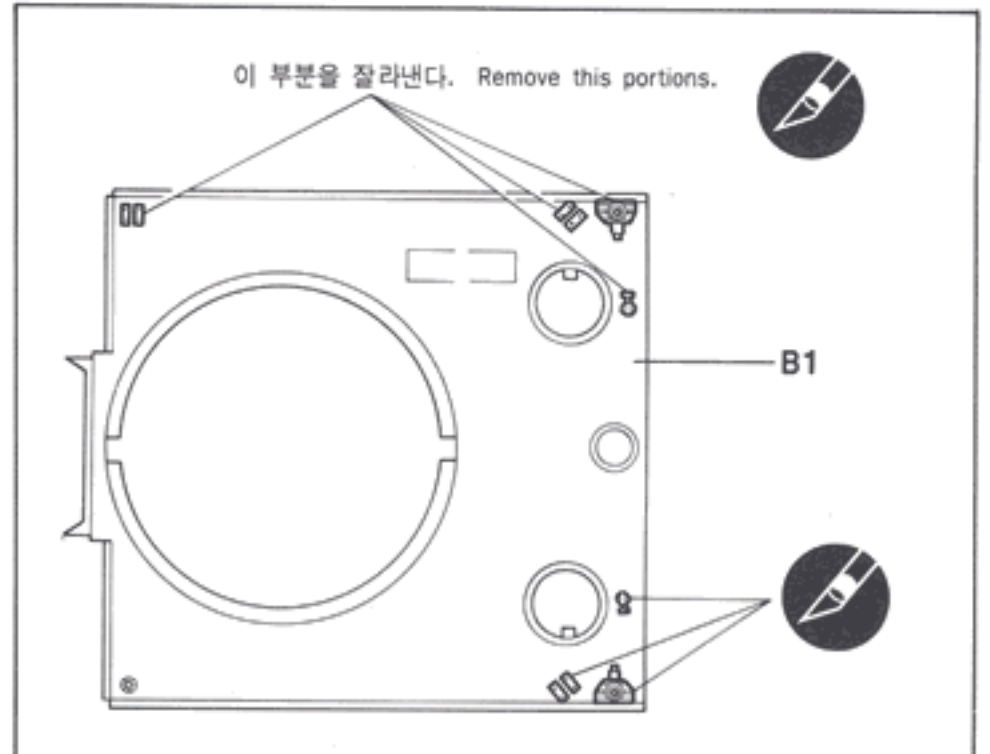
■ 냉각 팬 (Cooling fan)



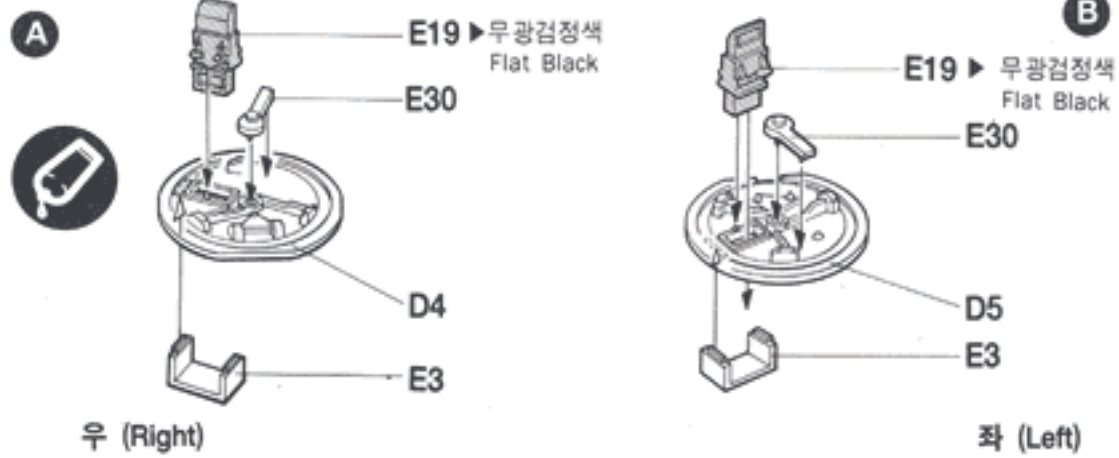
■ 탄약 적재함 B (Ammo storage B)



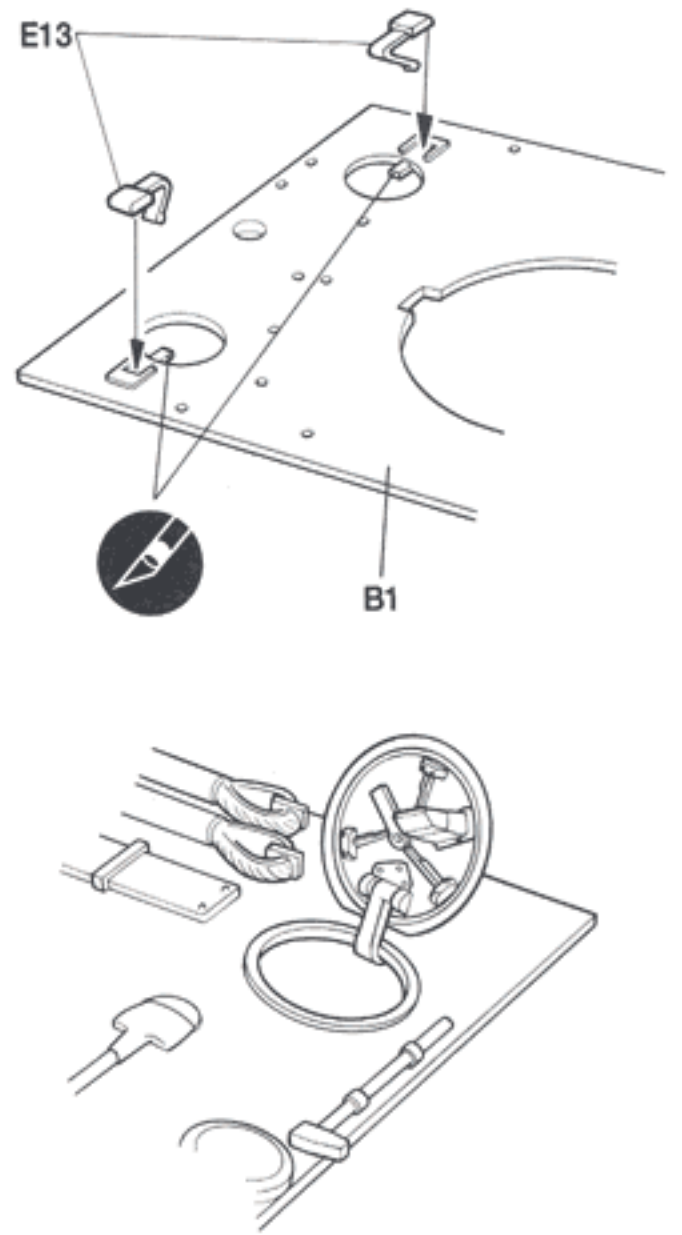
이 부분을 잘라낸다. Remove this portions.



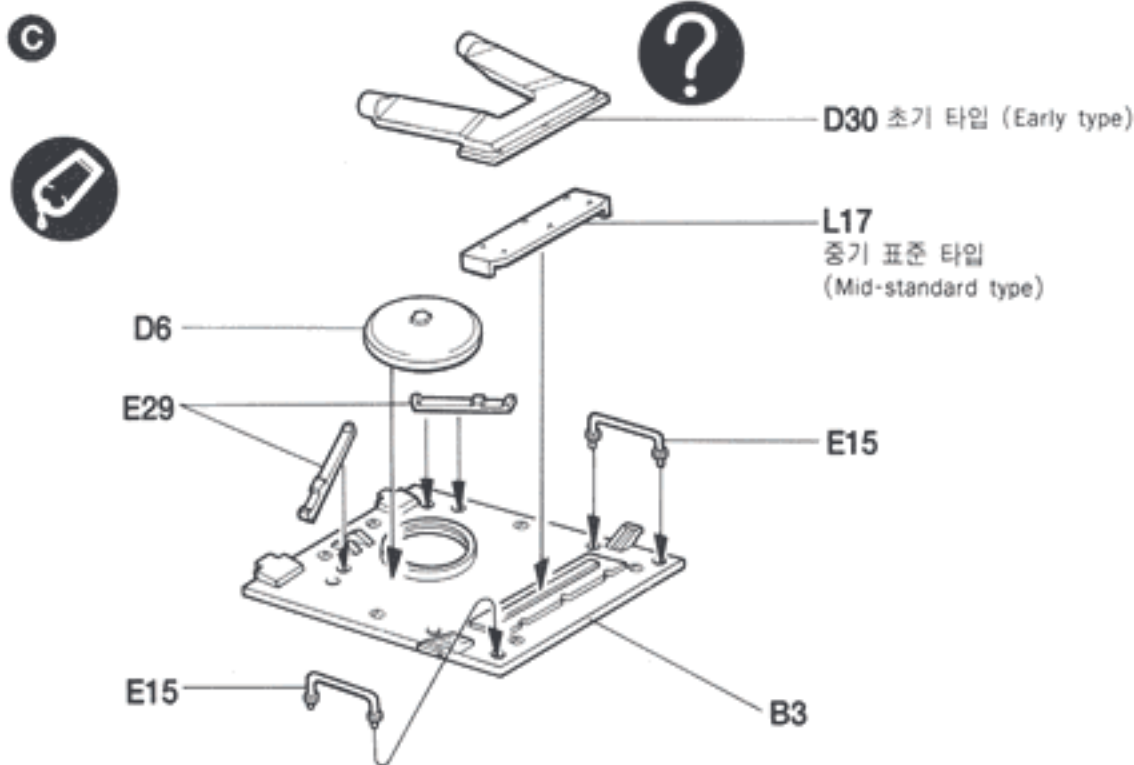
■ 전면 햇치 (Front hatch)



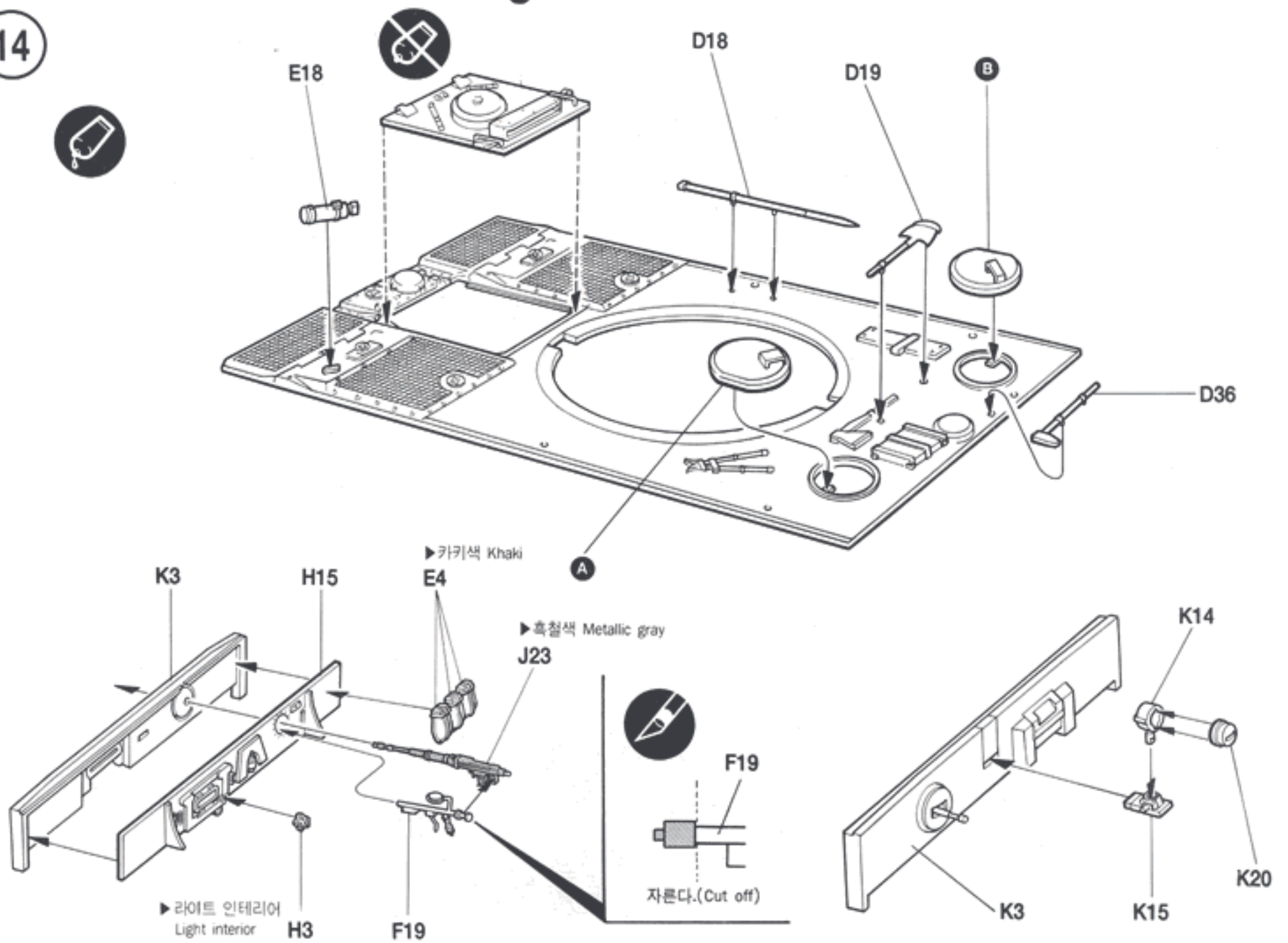
■ 열린상태 (Open position)



■ 엔진 햇치 (Engine access hatch)

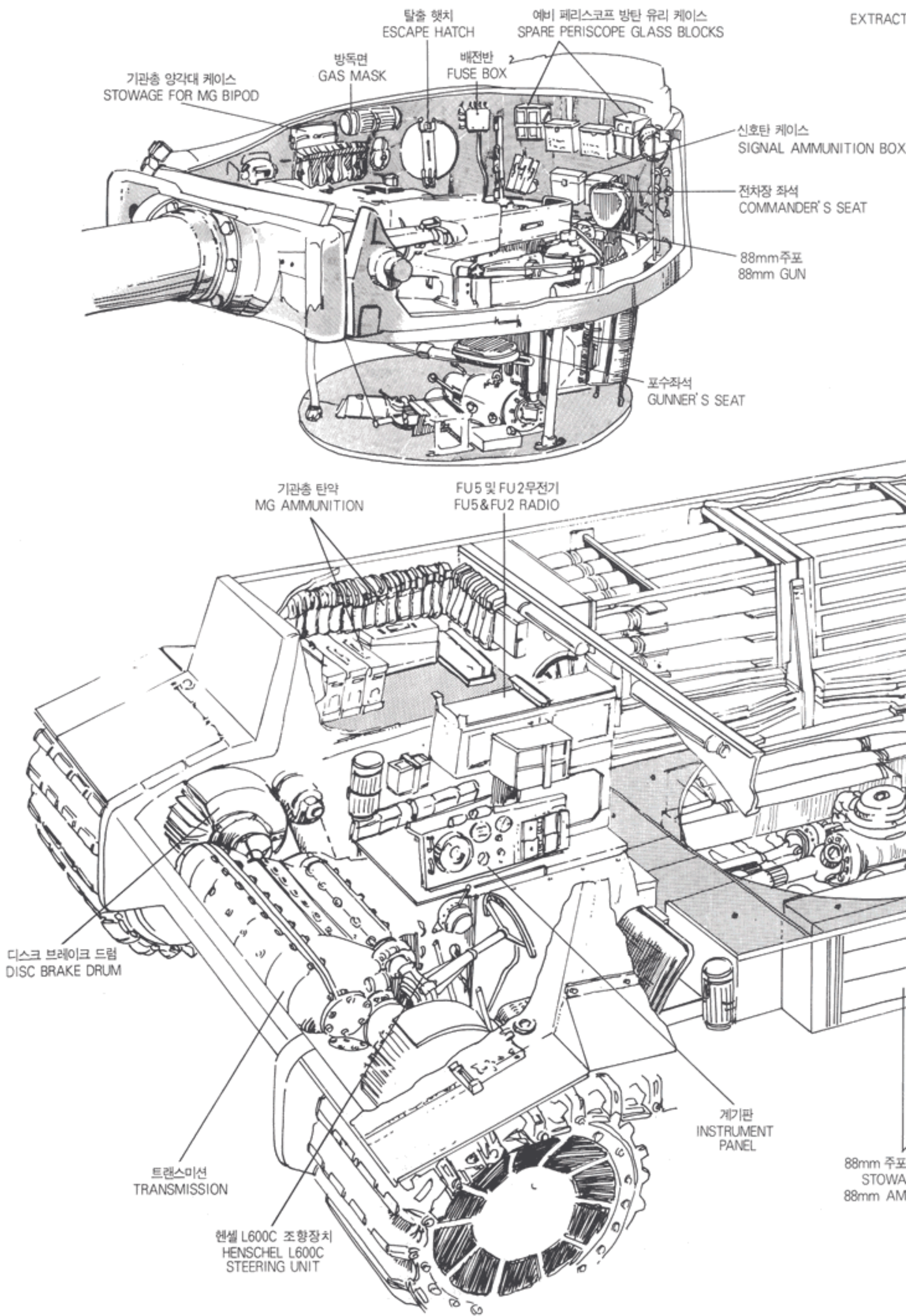


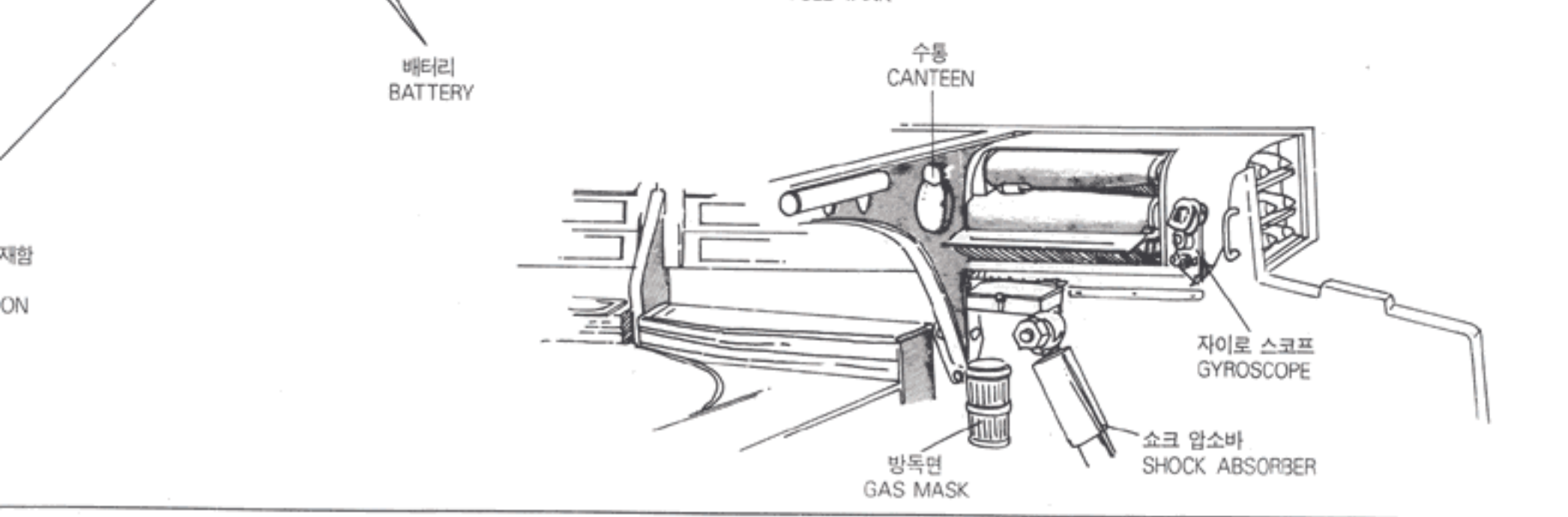
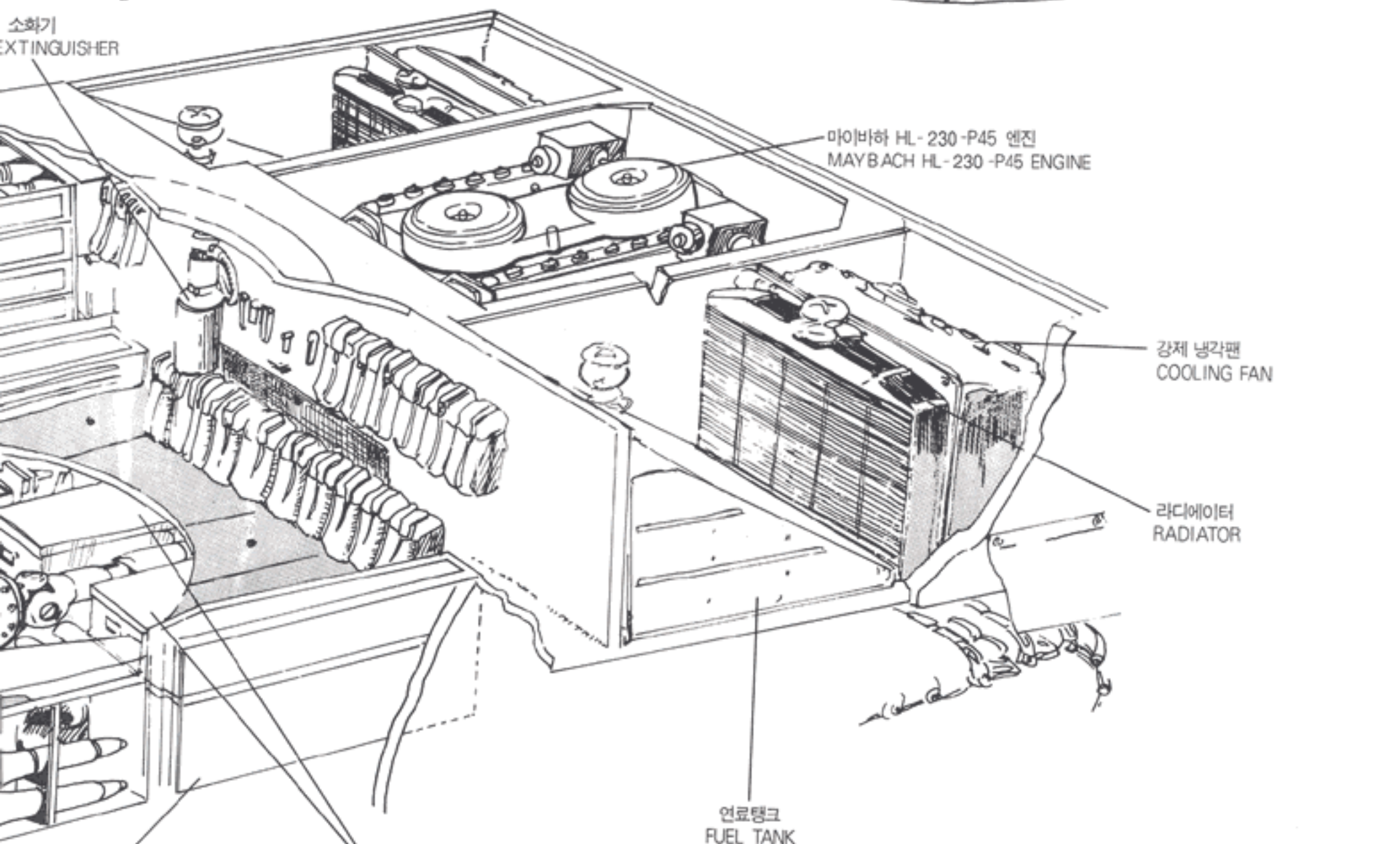
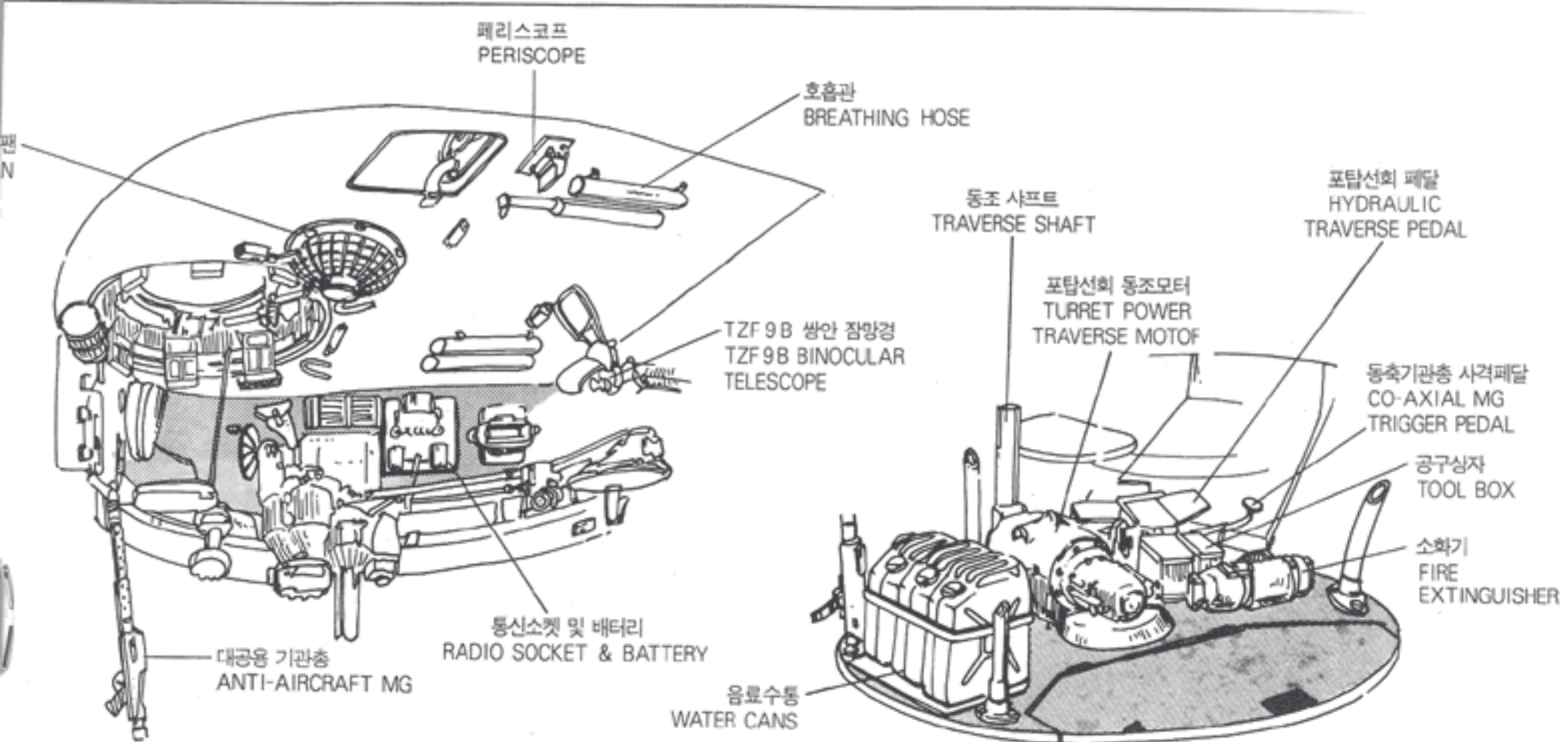
14



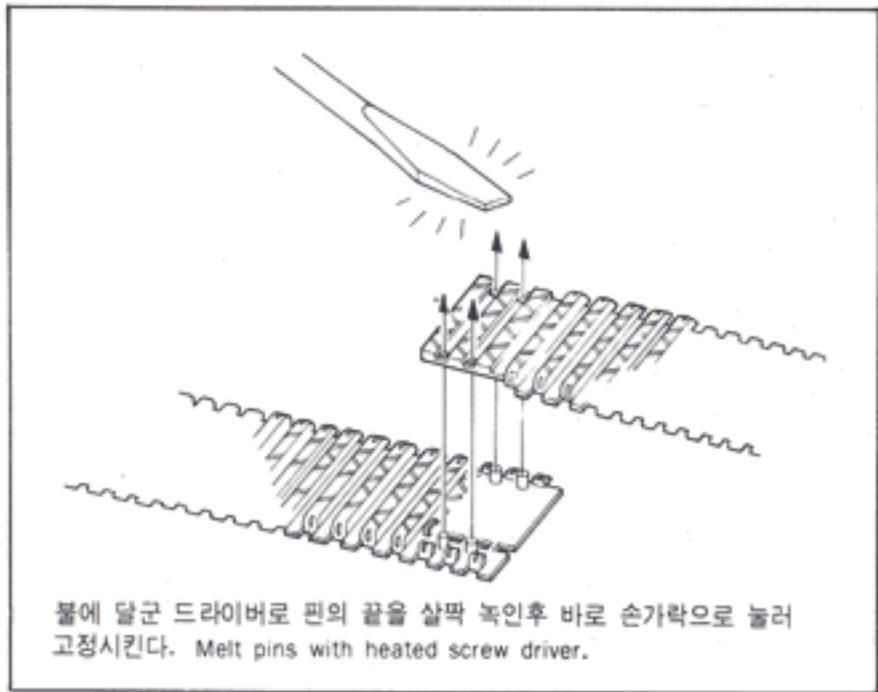
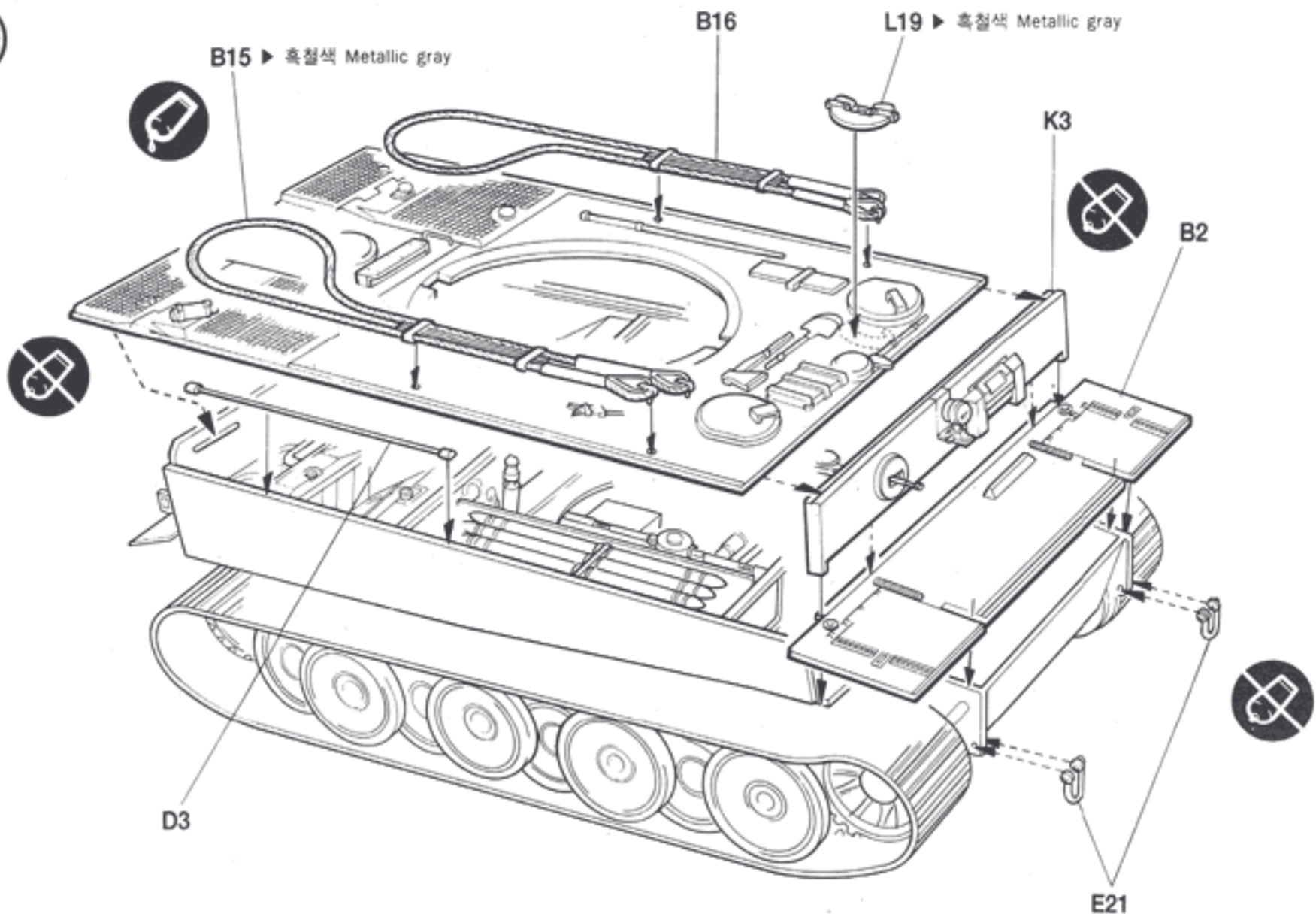
타이거 - I 내부 구조도

TIGER-I CUTAWAY VIEW DRAWING

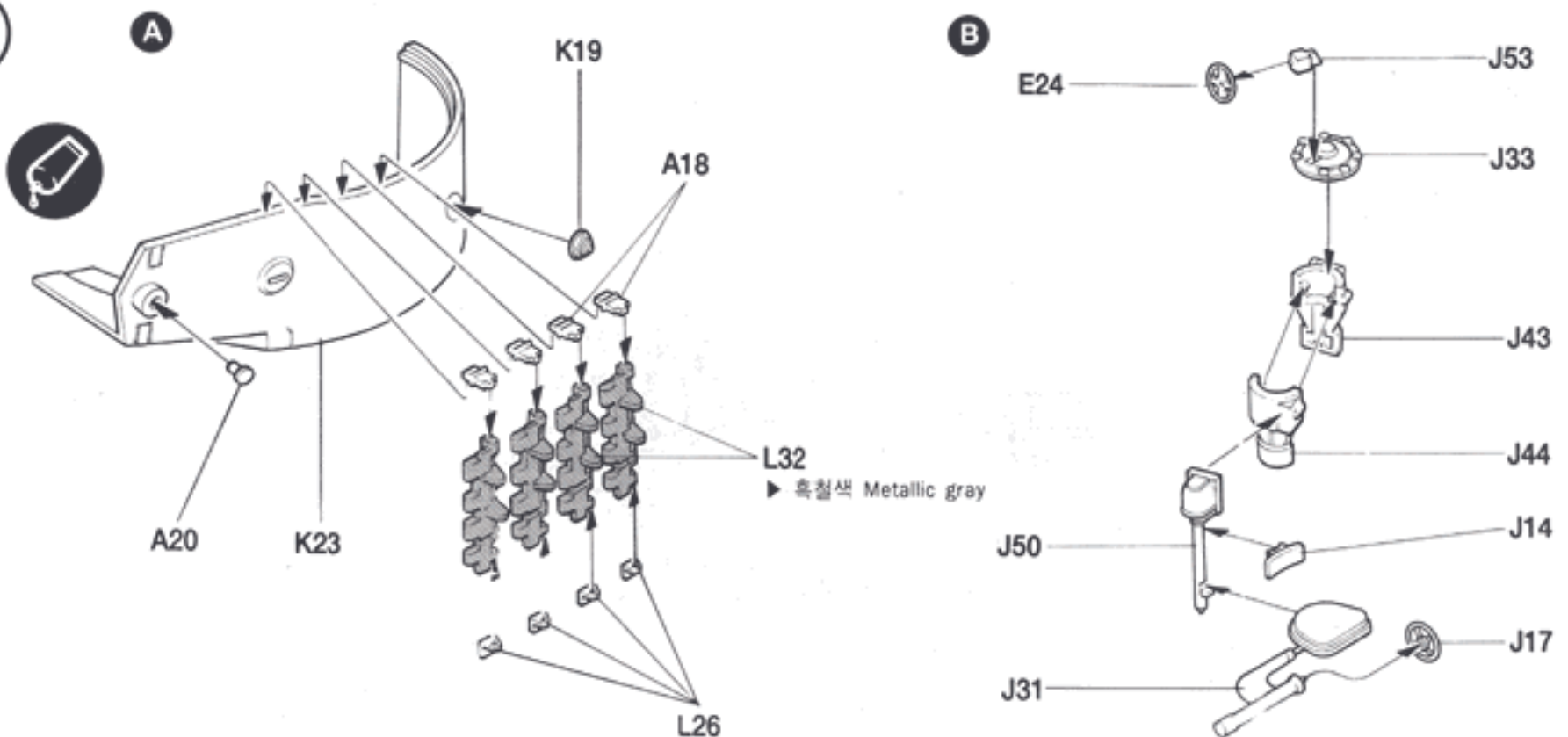




15



16



17

▶ 필드 그레이
Field gray
A19

J40

A19

J47

J18

J36

▶ 라이트 브라운
Light brown
F13

F10

J29

F11

▶ 라이트 브라운
Light brown
J13

J13

F1

J45

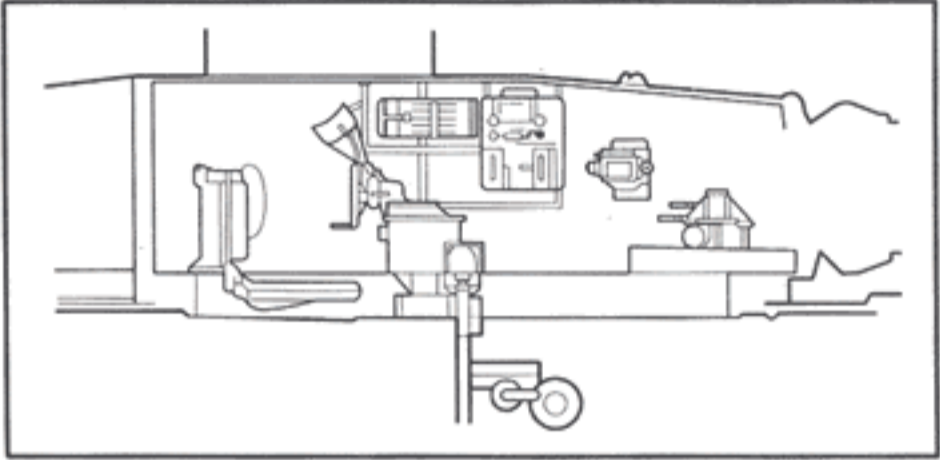
▶ 라이트 브라운

B



▶ 내부 전체색: 라이트 인테리어
Overall: Light interior

좌 (Left)



18

J49

K16

J19

K22

J41

F13



▶ 내부 전체색: 라이트 인테리어
Overall: Light interior

E12

F10

F1

F11

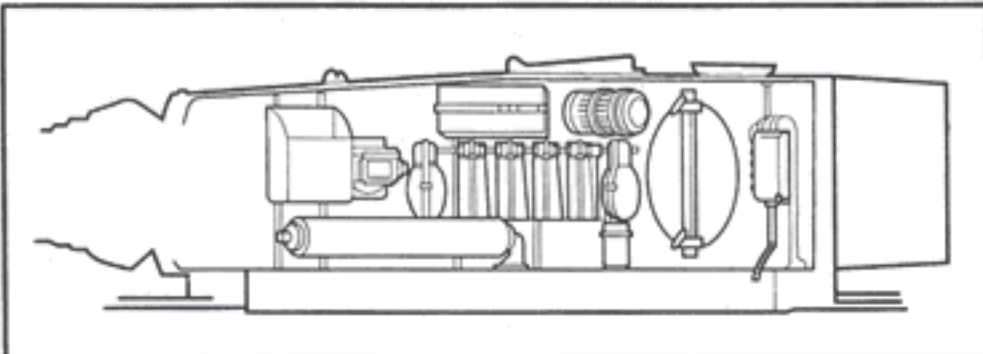
J6

J32

▶ 라이트 브라운
Light brown

J25

우 (Right)



J15

A19

E12

J35

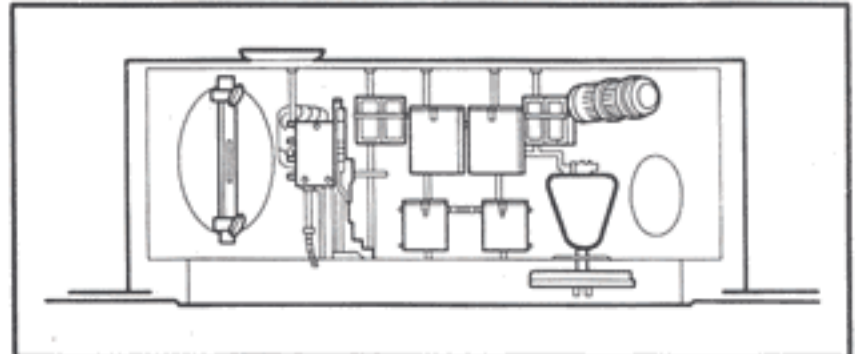
▶ 흑철색
Metallic gray

J30

J27

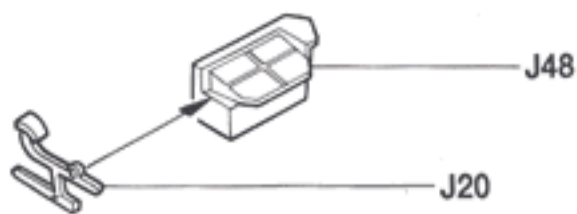
F1

후부 (Rear)

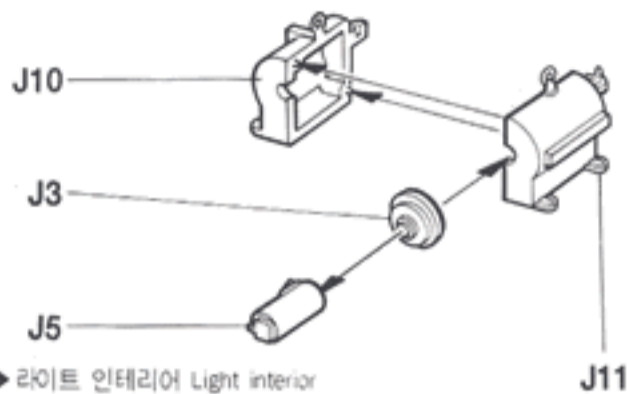


19

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



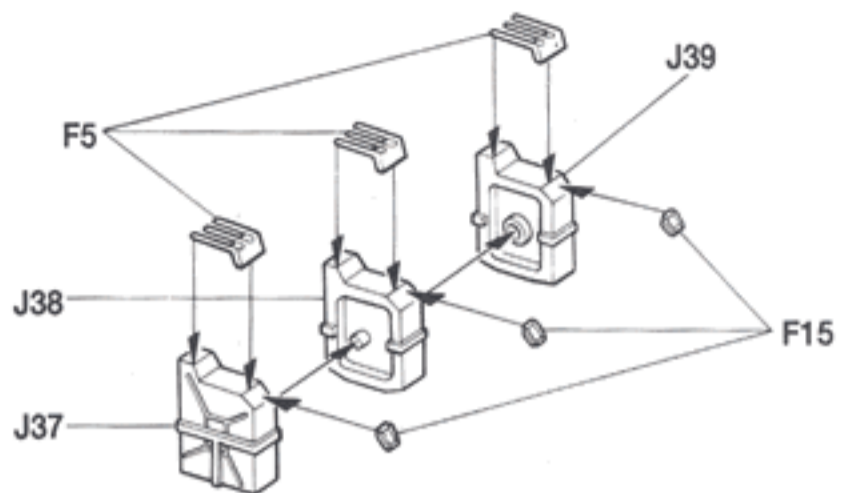
B 유압 동조 모터 (Hydraulic traverse motor)



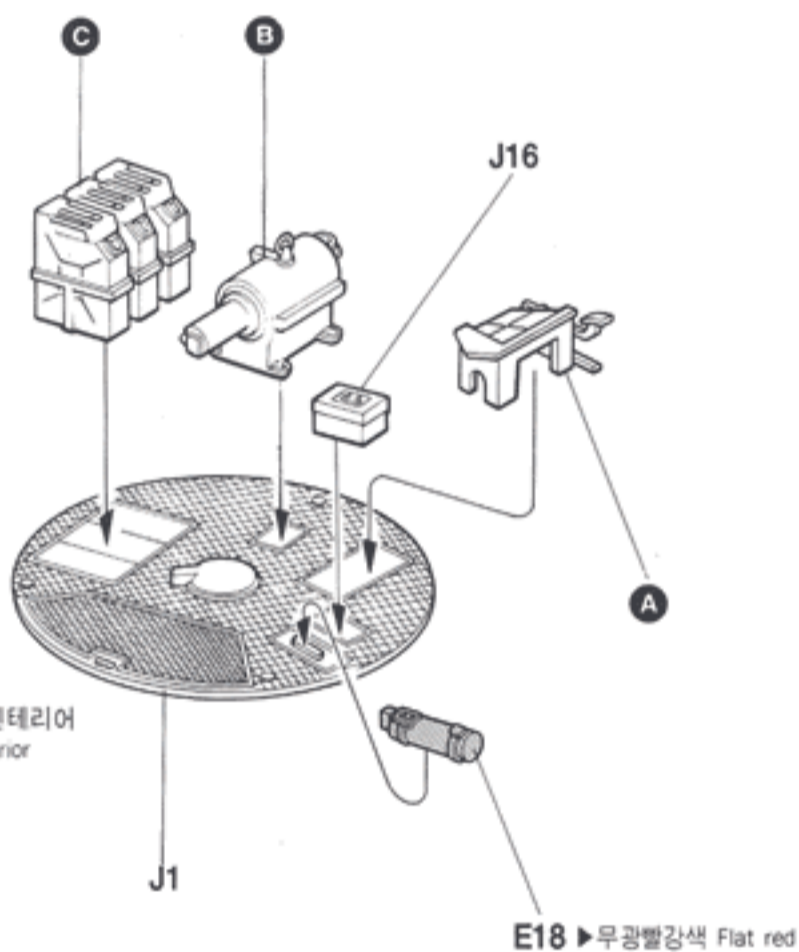
▶ 라이트 인테리어 Light interior



C 음료수통 (Water cans)

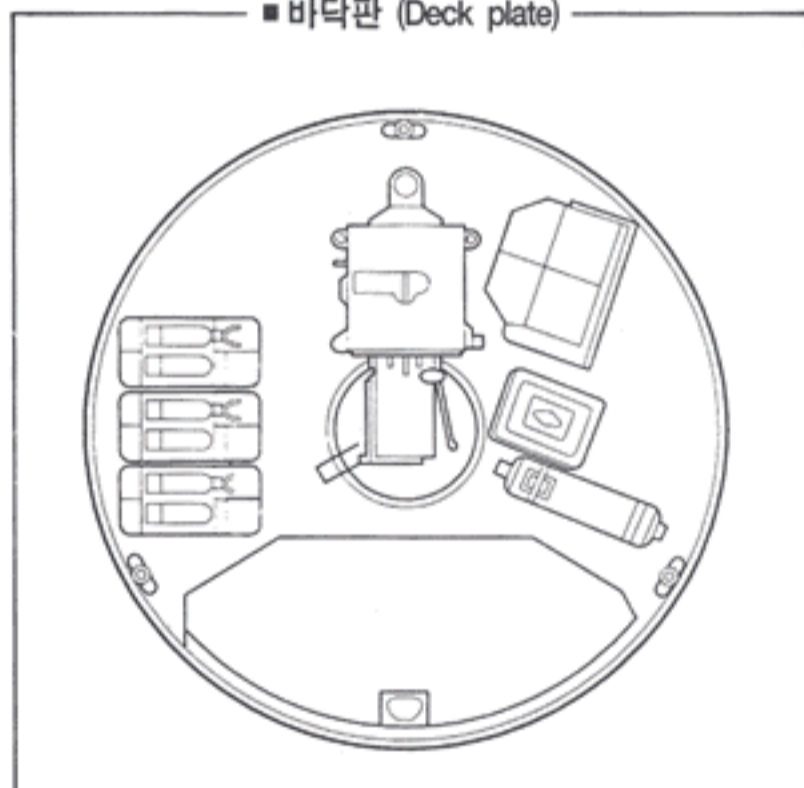


▶ 다크 옐로우 Dark yellow

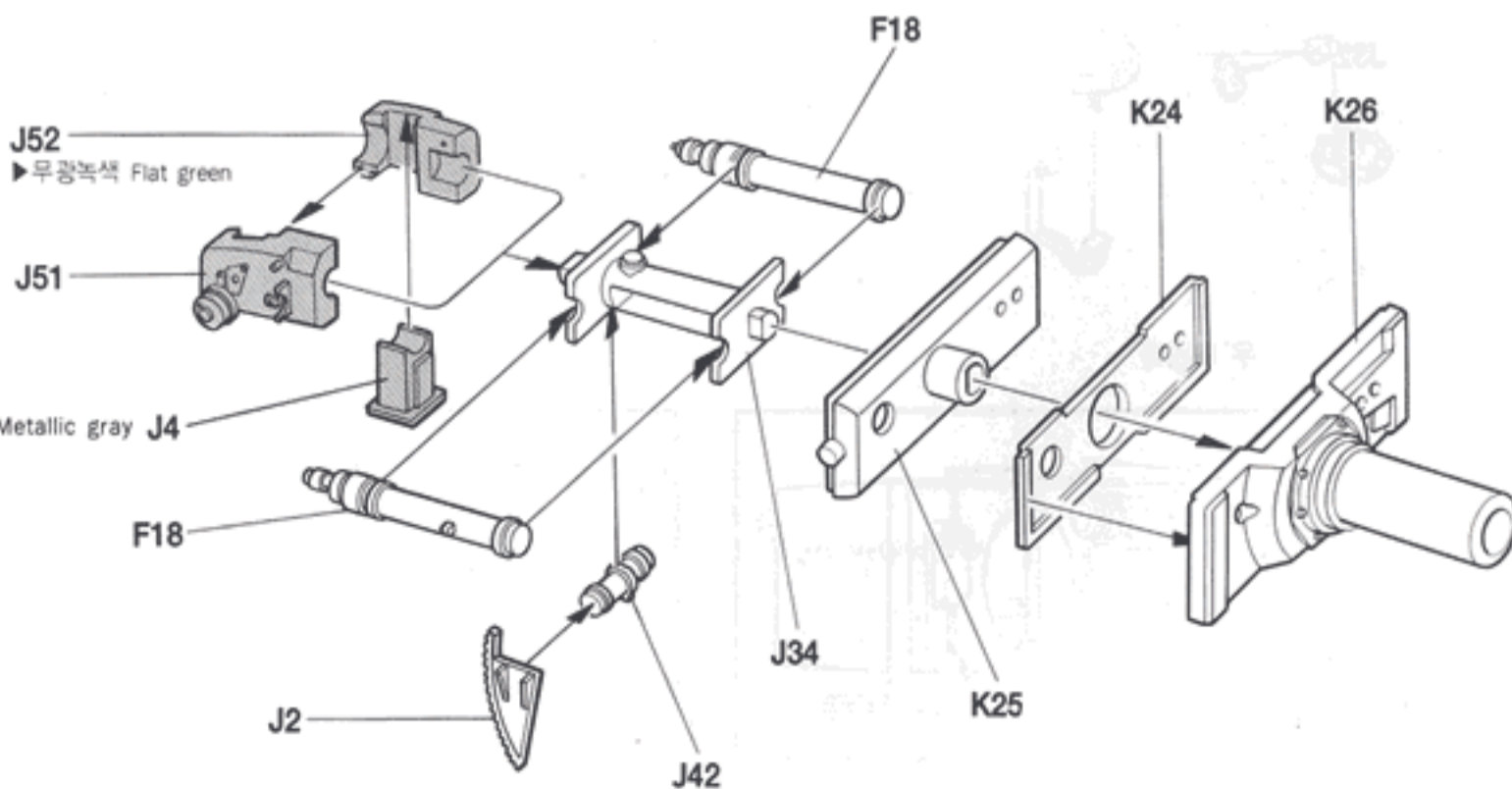


▶ 전체 : 라이트 인테리어 Overall: Light interior

바닥판 (Deck plate)



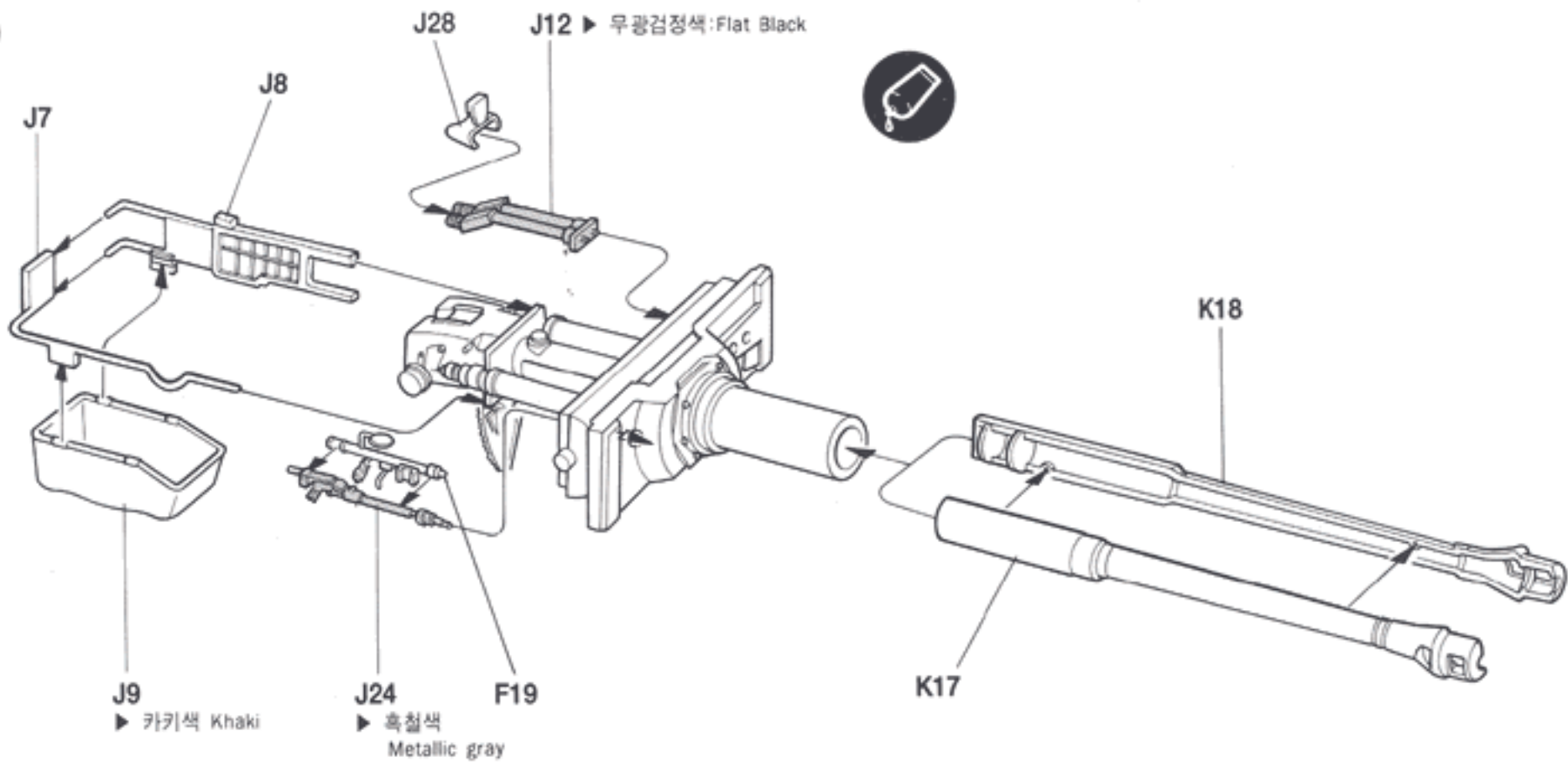
20



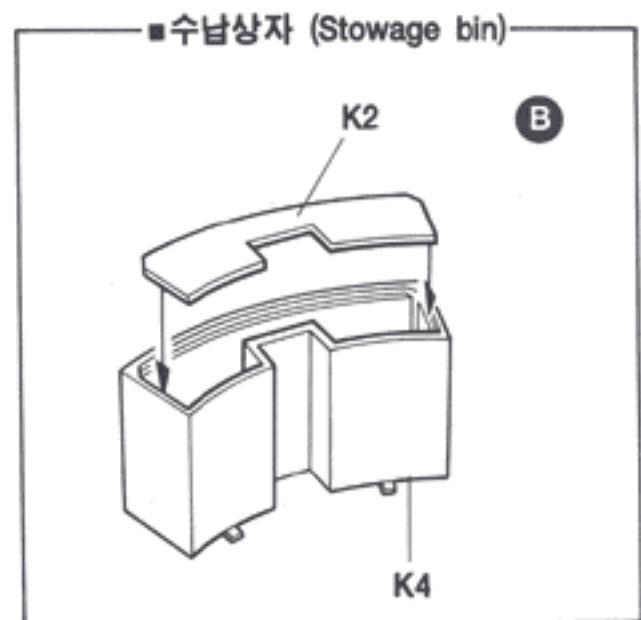
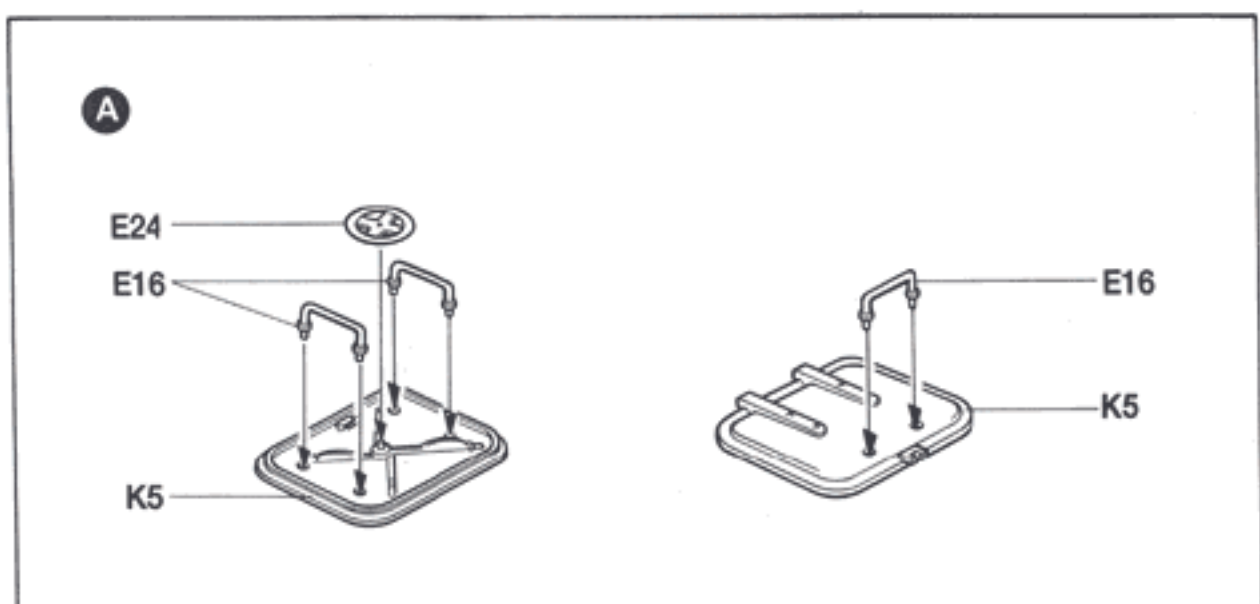
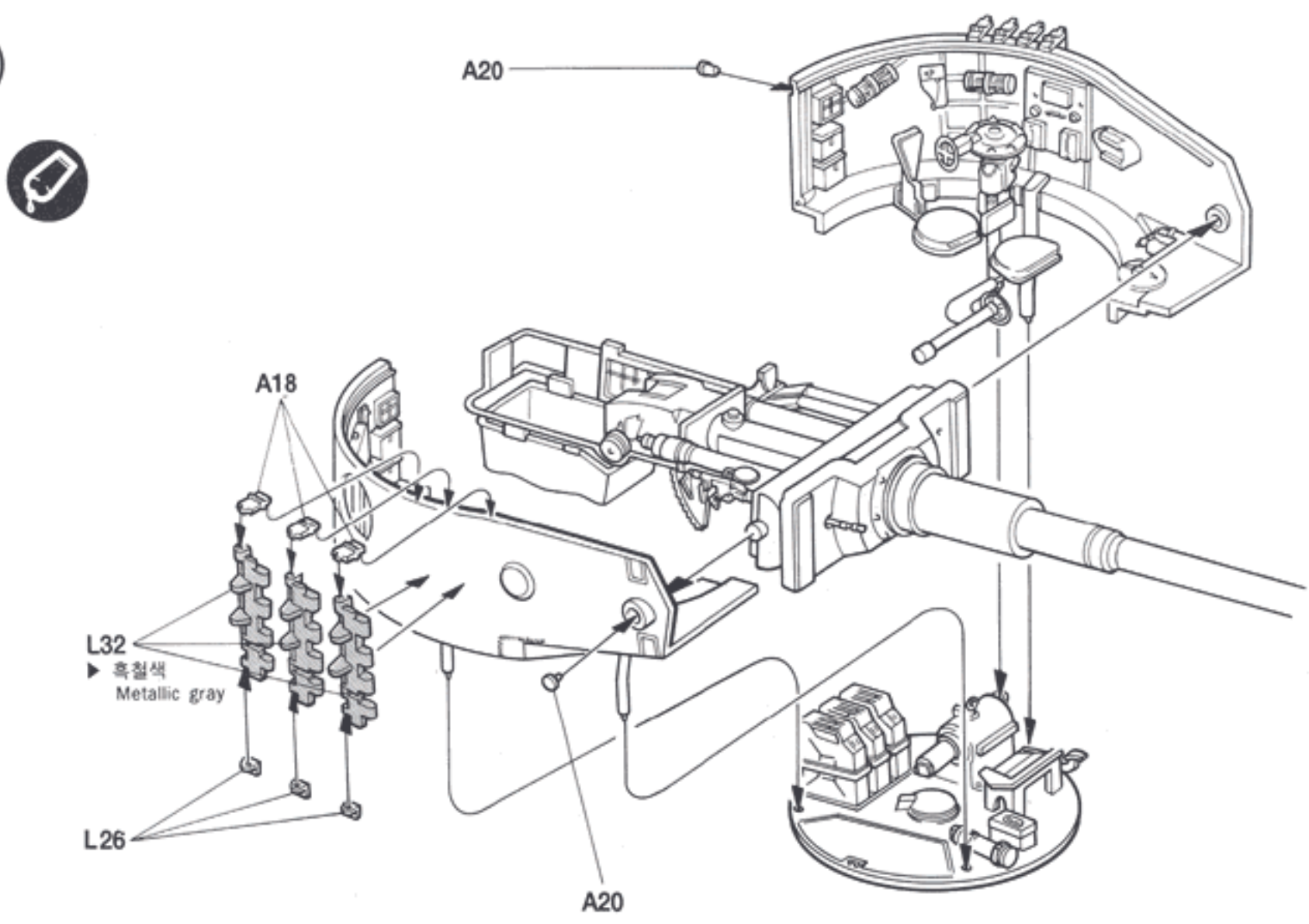
J52 ▶ 무광녹색 Flat green

▶ 흑철색 Metallic gray J4

21

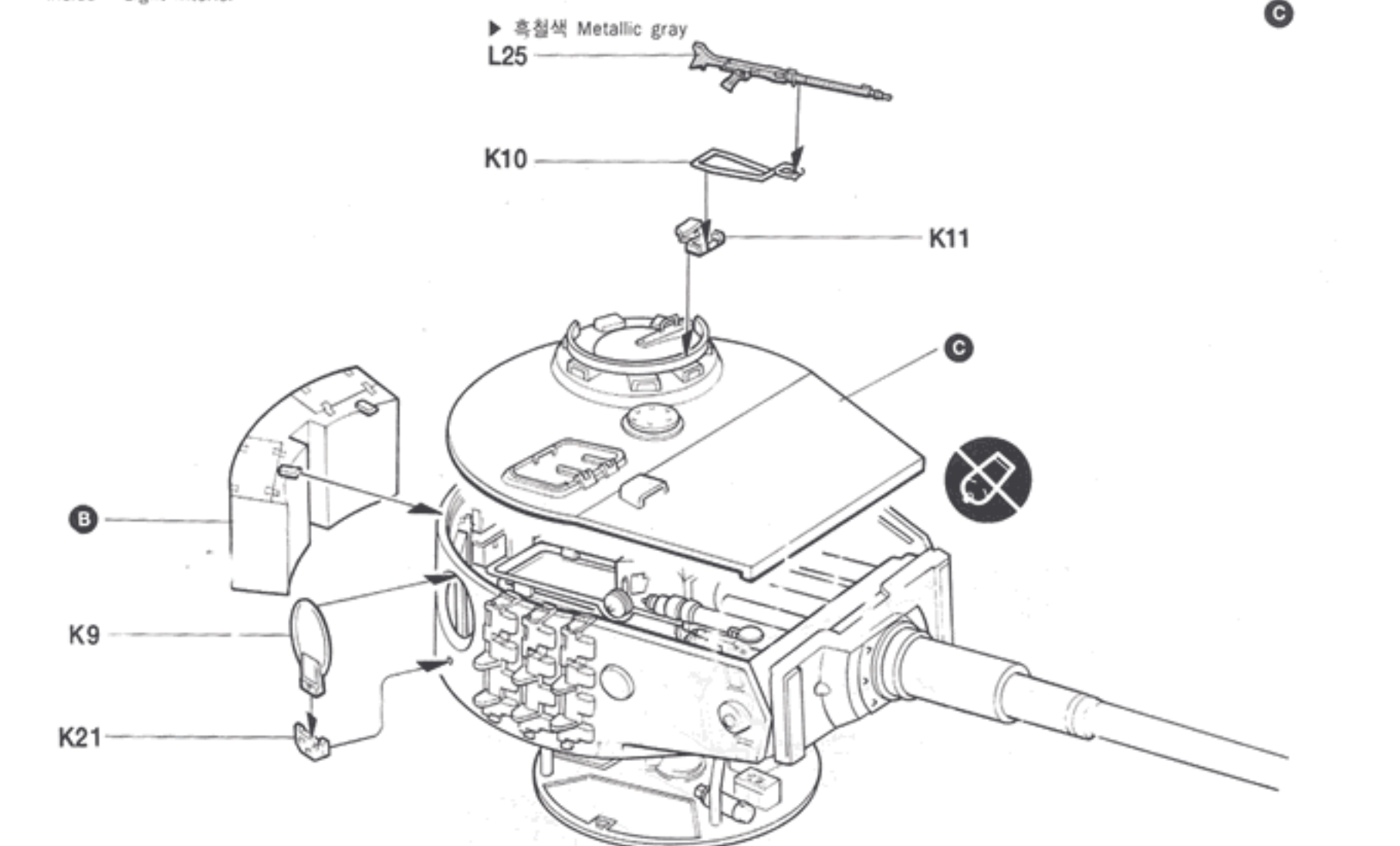
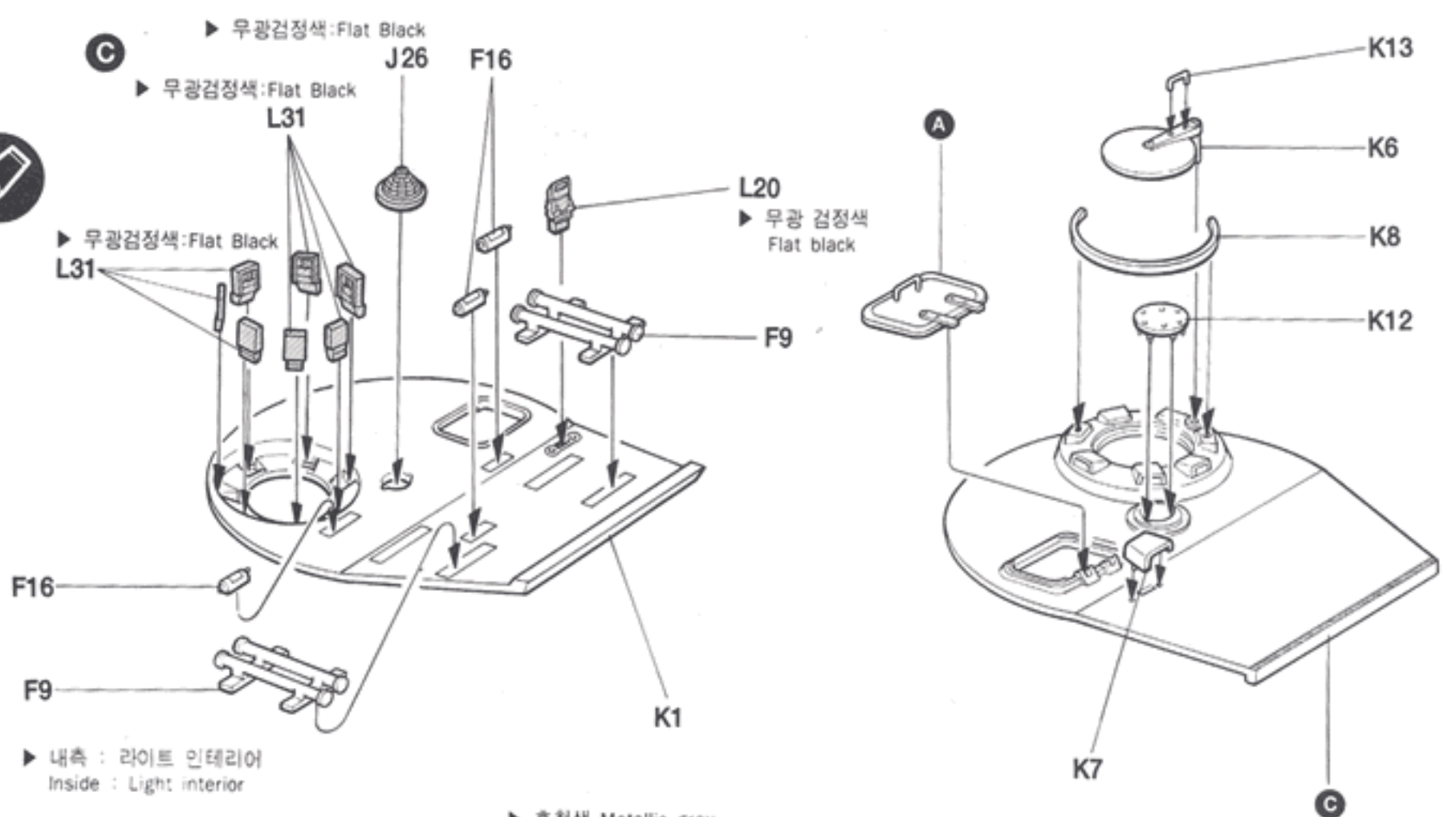


22

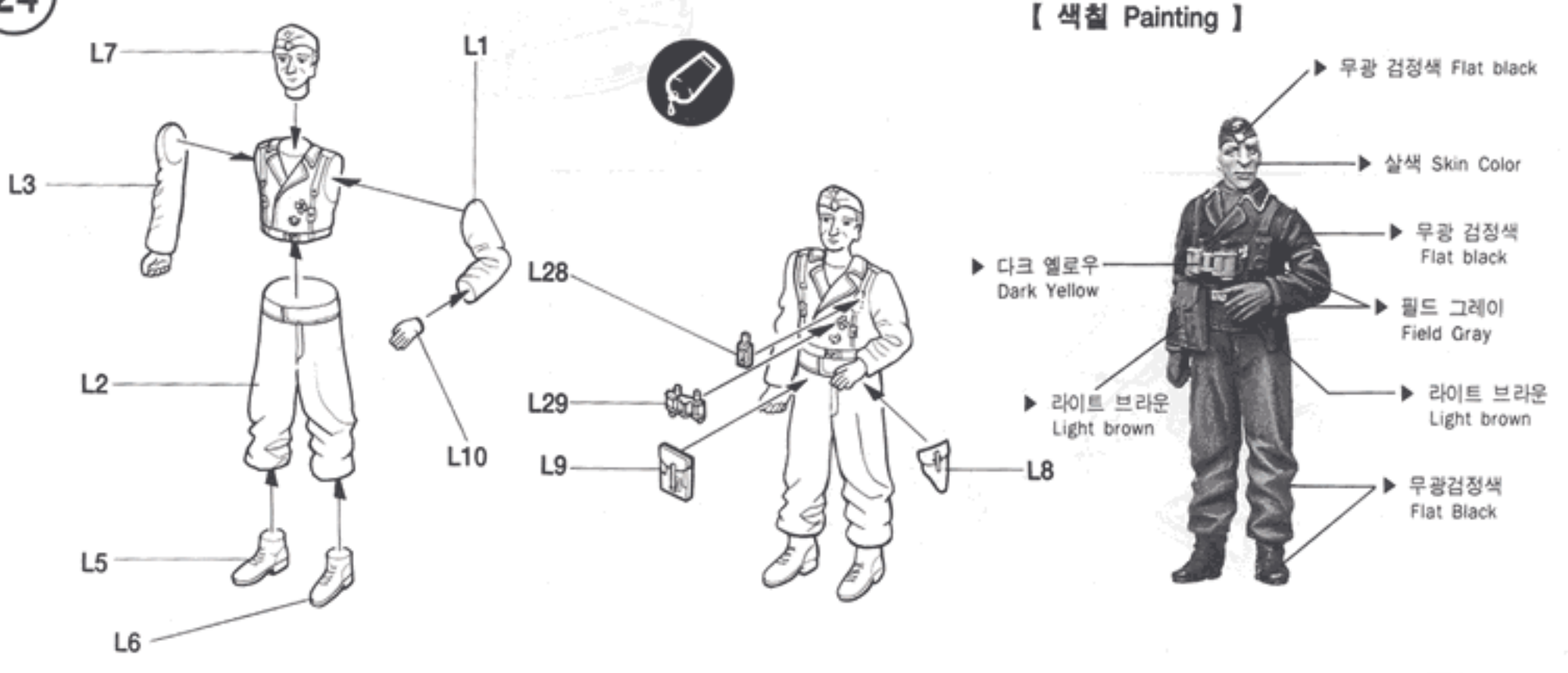


■ 수납상자 (Stowage bin)

23

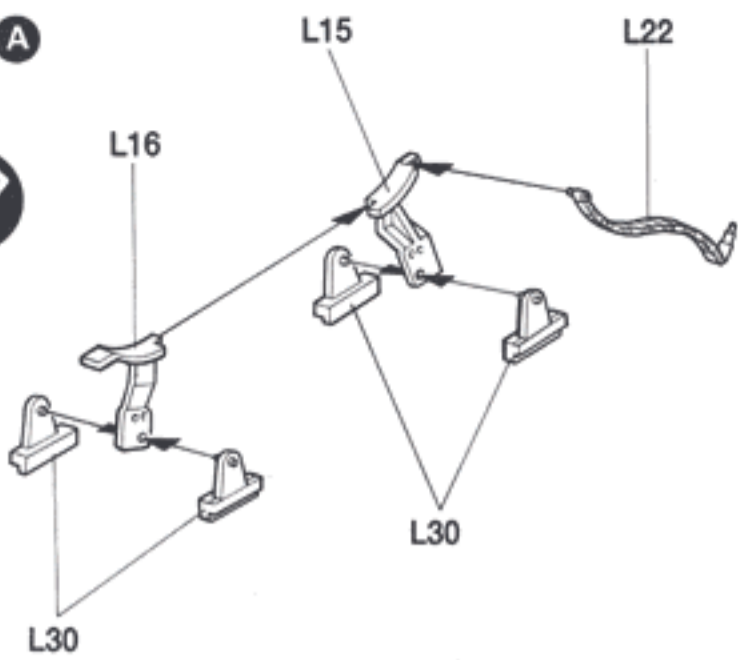


24



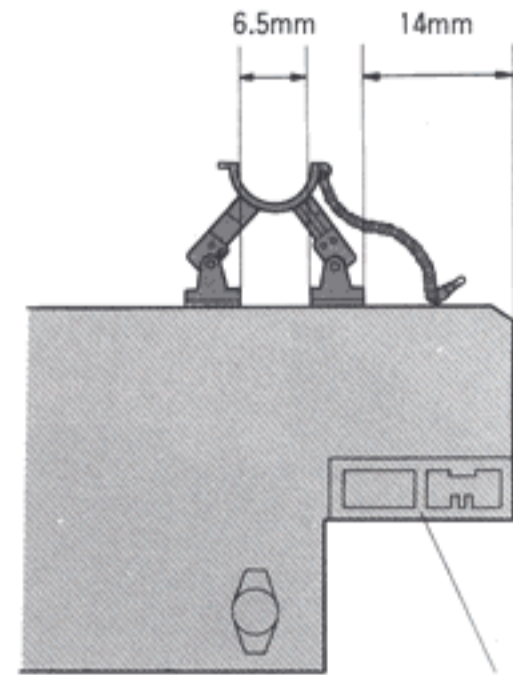
25

A



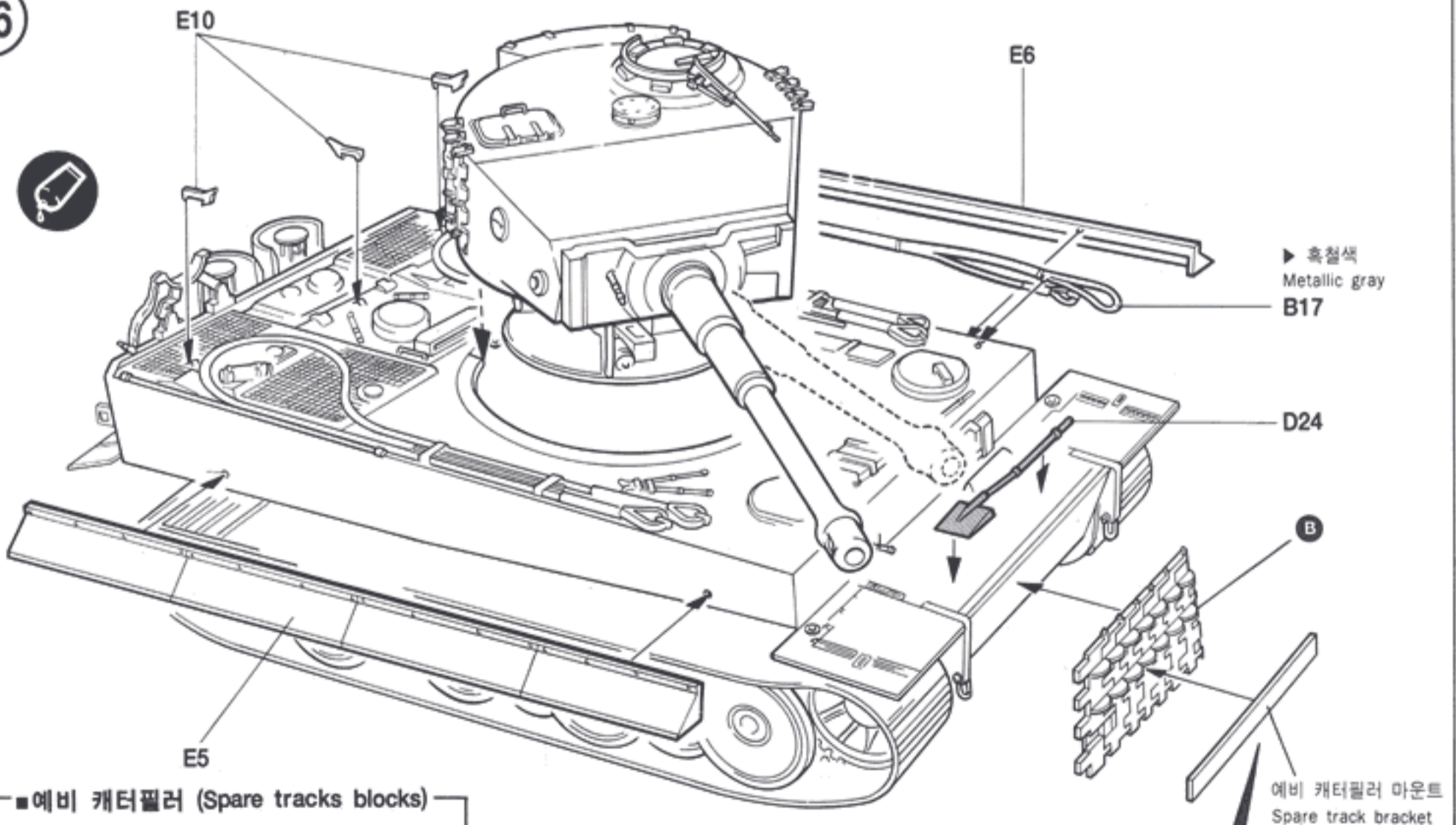
중기 표준형인 경우 부착한다.
Attached to Mid-standard type.

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

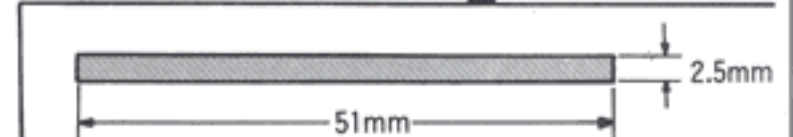


차체 후부 우측 Right of Rear hull

26



■ 예비 캐터필러 (Spare tracks blocks)



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

< 짜메리트 코팅하는 방법 >

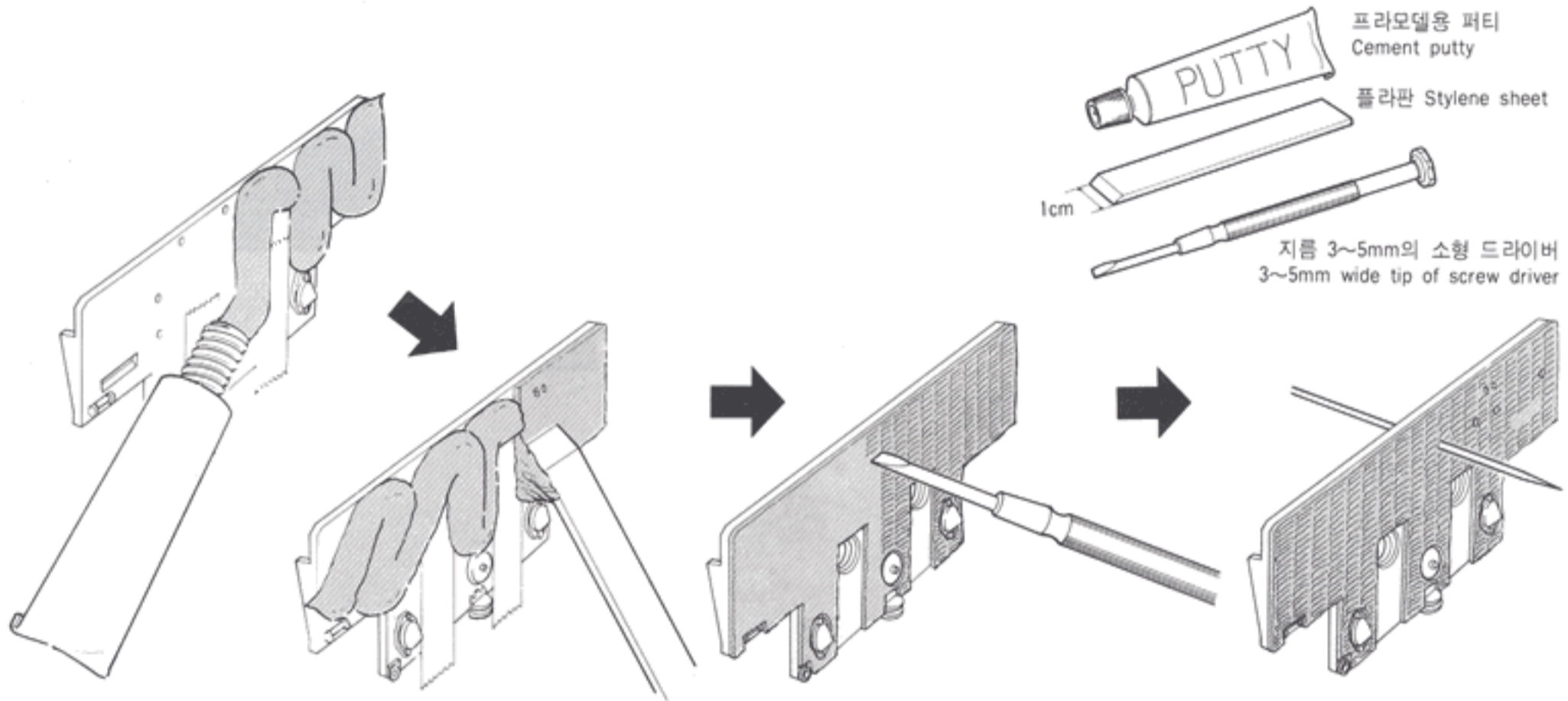
연합국 측의 자기 흡착 지뢰 사용을 예상한 독일군은 1943년 말엽부터 그 방어책으로 차체와 포탑의 수직면에 시멘트 (짜메리트 : Zimmerit)코팅을 전체적으로 실시하게 된다. 프라모델에서는 퍼티를 사용하여 묘사할 수 있다.

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

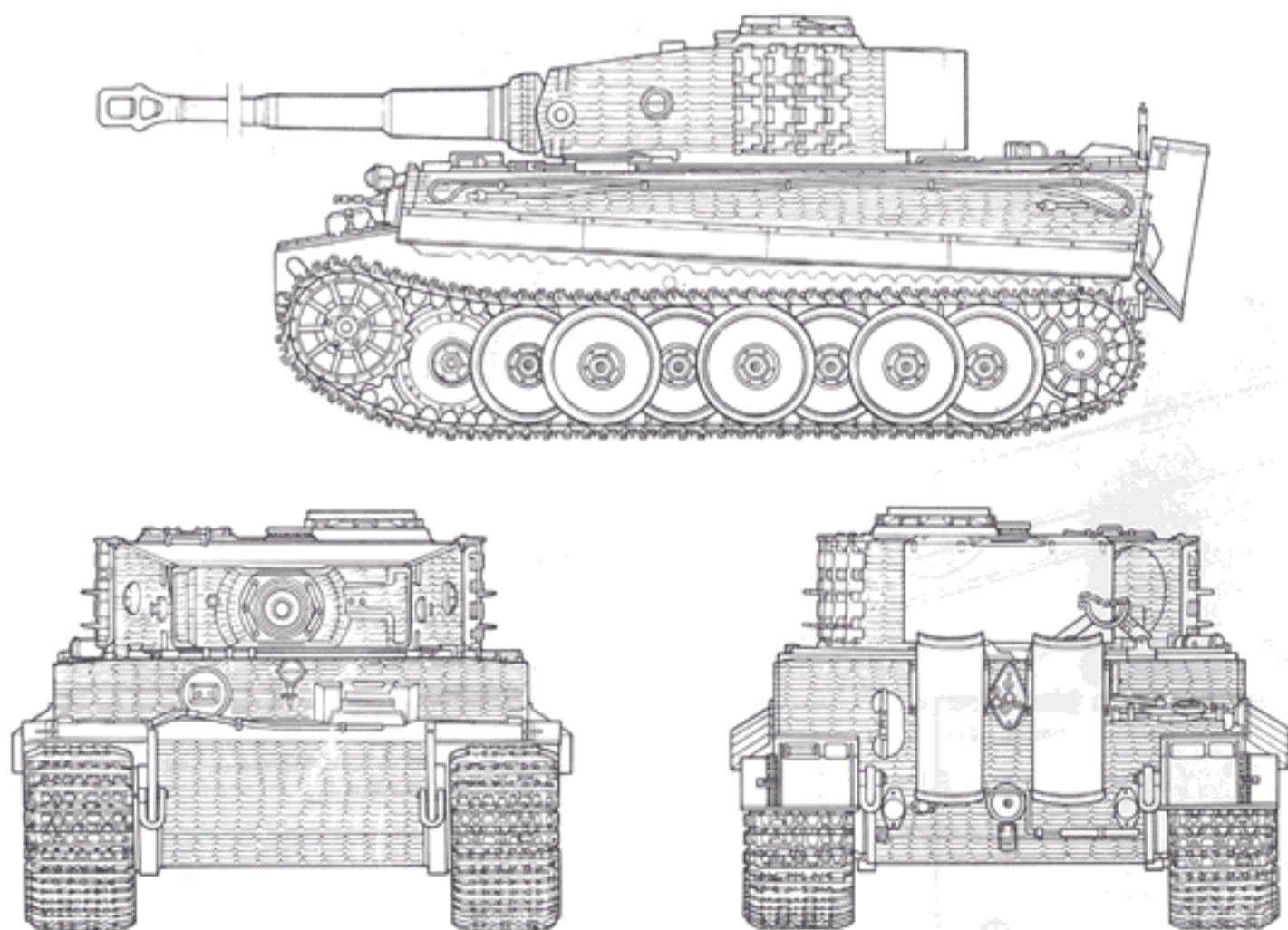
< HOW TO APPLY ZIMMERIT COATING >

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) 】

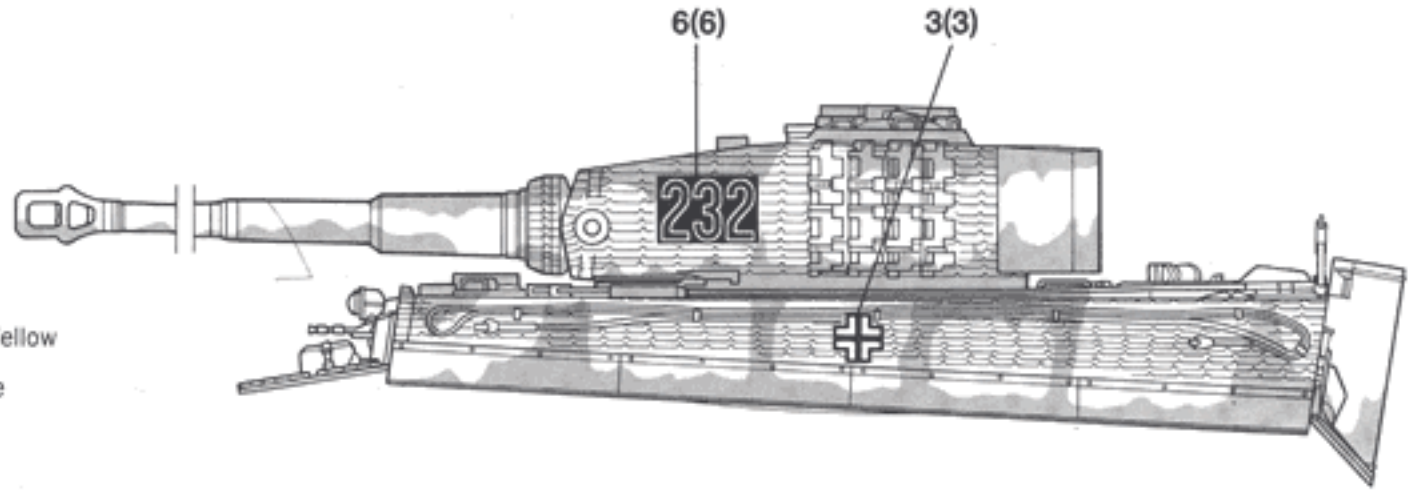


색칠 및 전사지 붙이기 Painting and Decal Placement



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

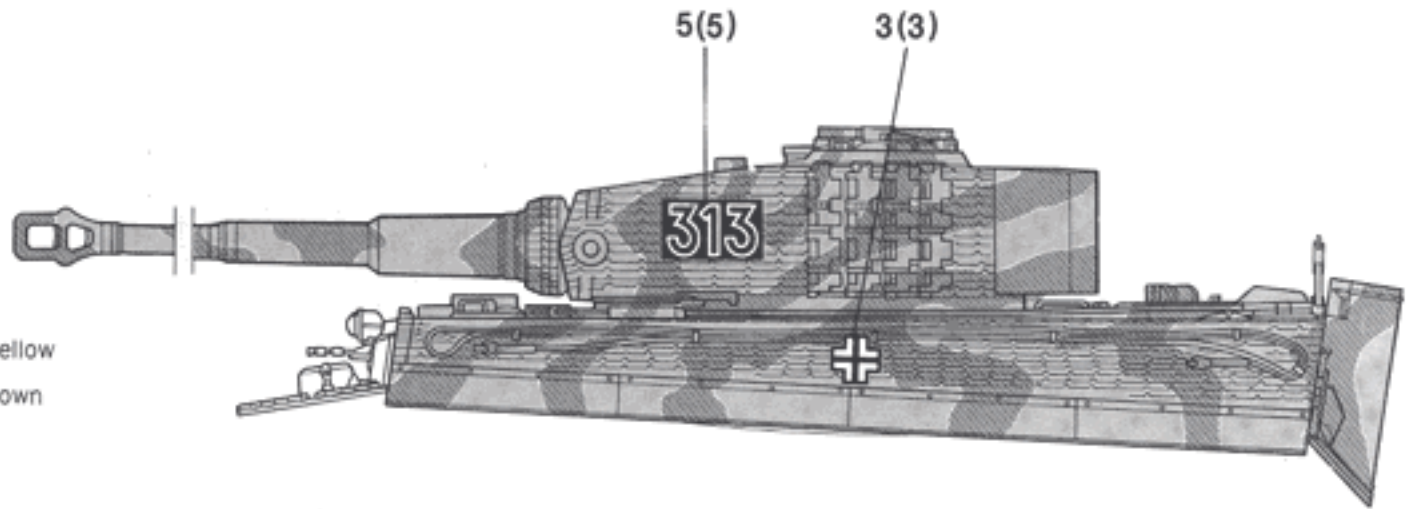
* ()는 반대측 번호임.
() is opposite Number.

-  ▶ 다크 옐로우 Dark Yellow
-  ▶ 무광흰색 Flat White






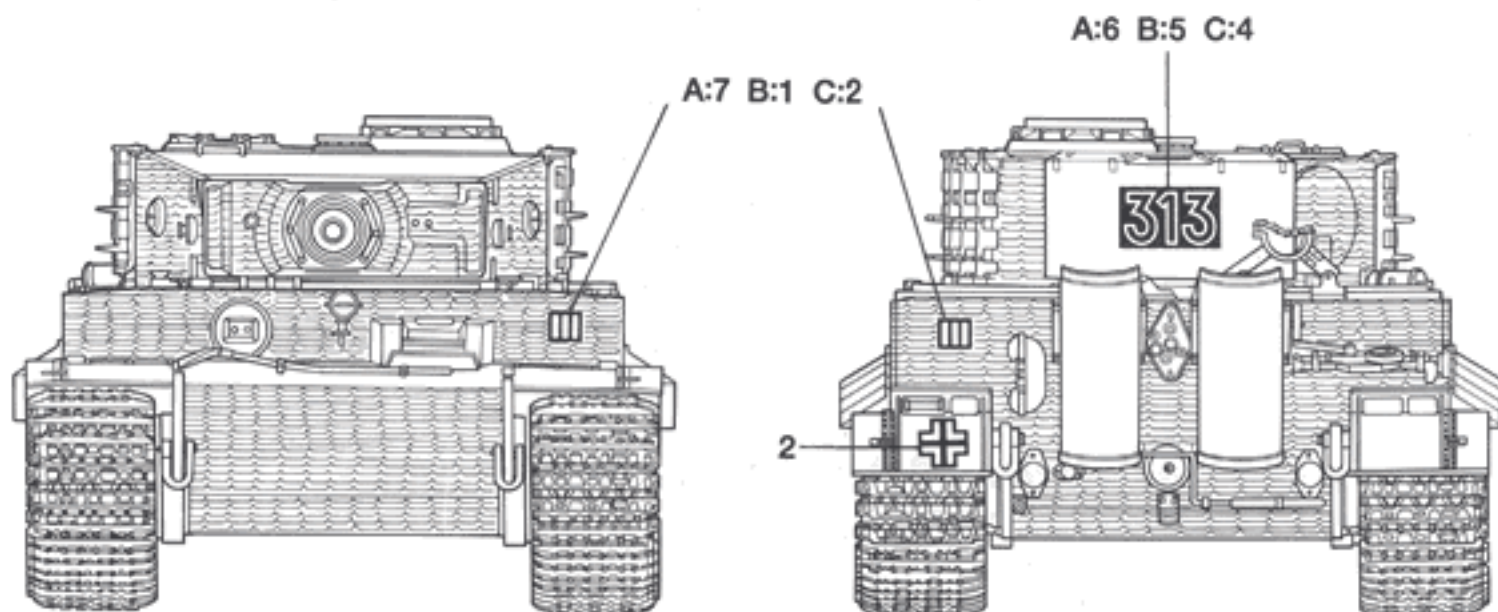
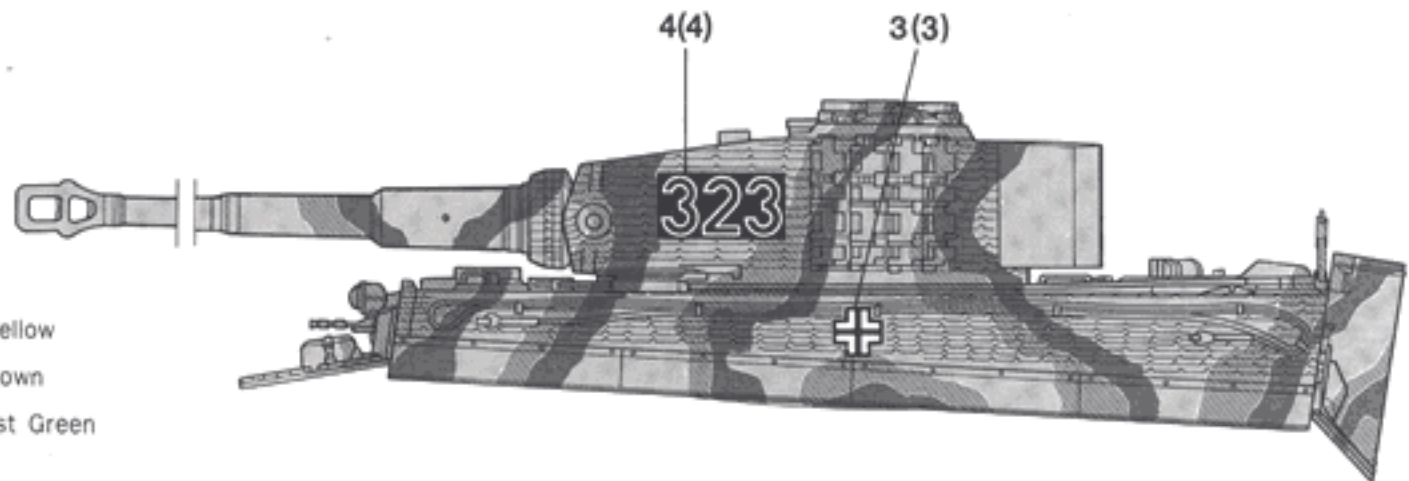
B-제3SS 전차사단 '토텐코프' (3rd SS Panzer Division)
1944년 6월 러시아. Russia, June 1944.

-  ▶ 다크 옐로우 Dark Yellow
-  ▶ 레드 브라운 Red Brown

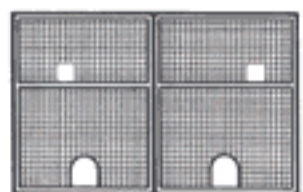
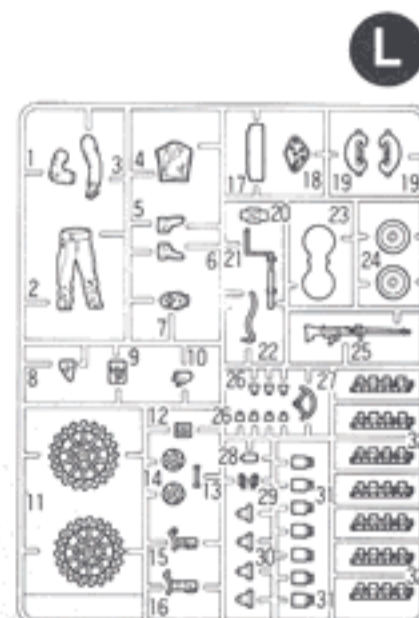
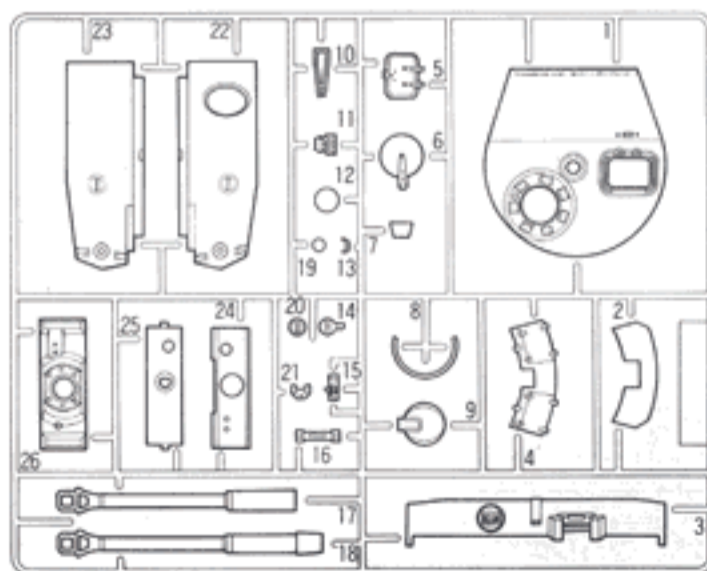
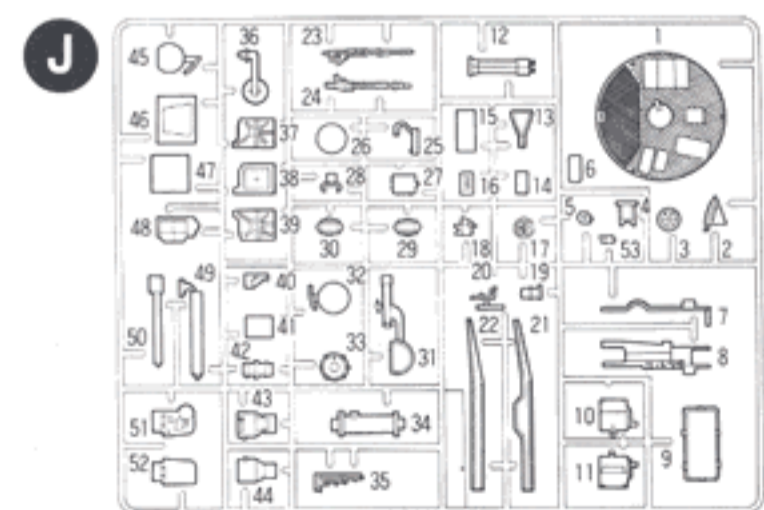
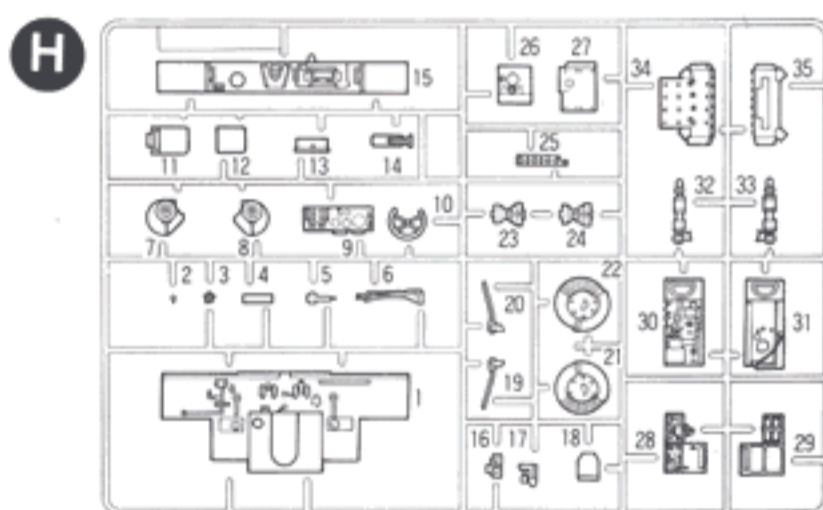
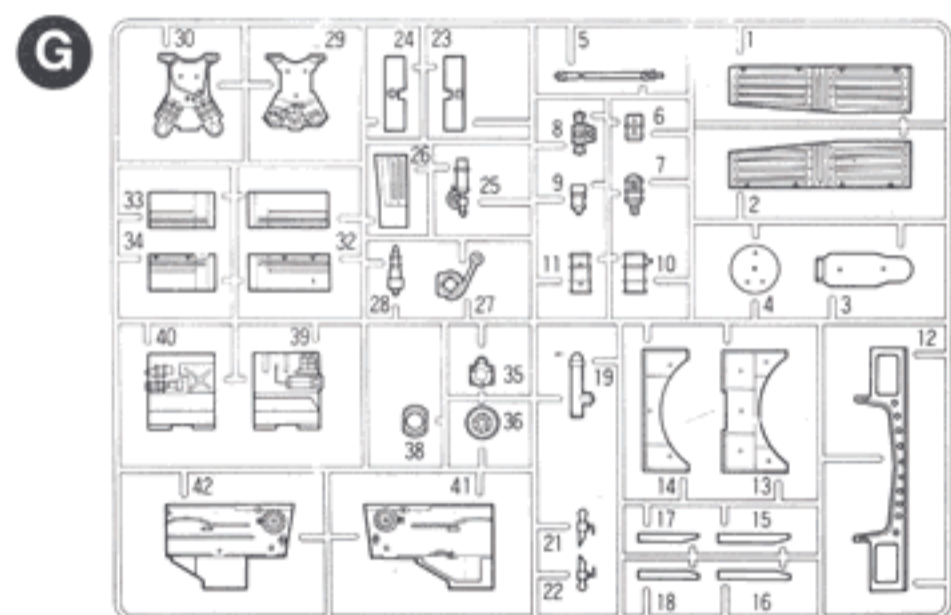
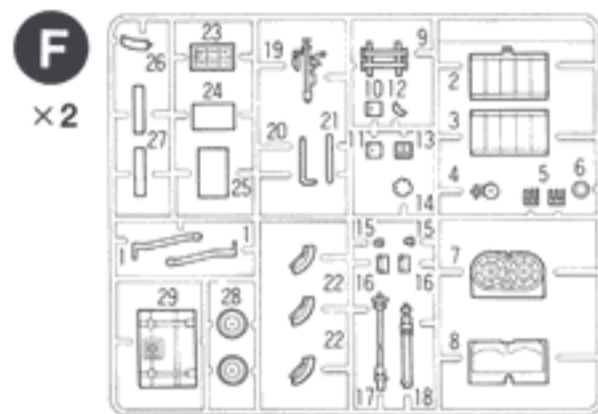
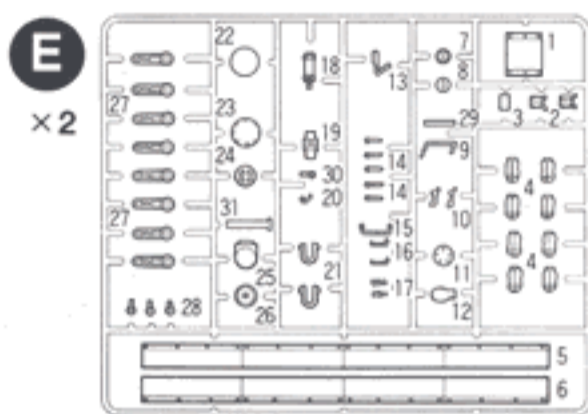
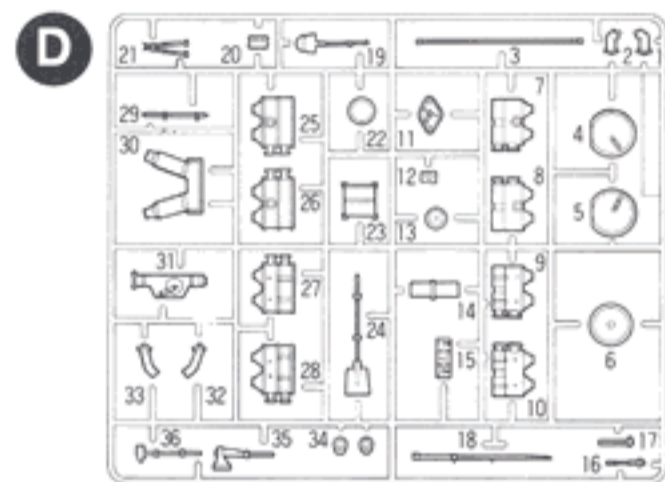
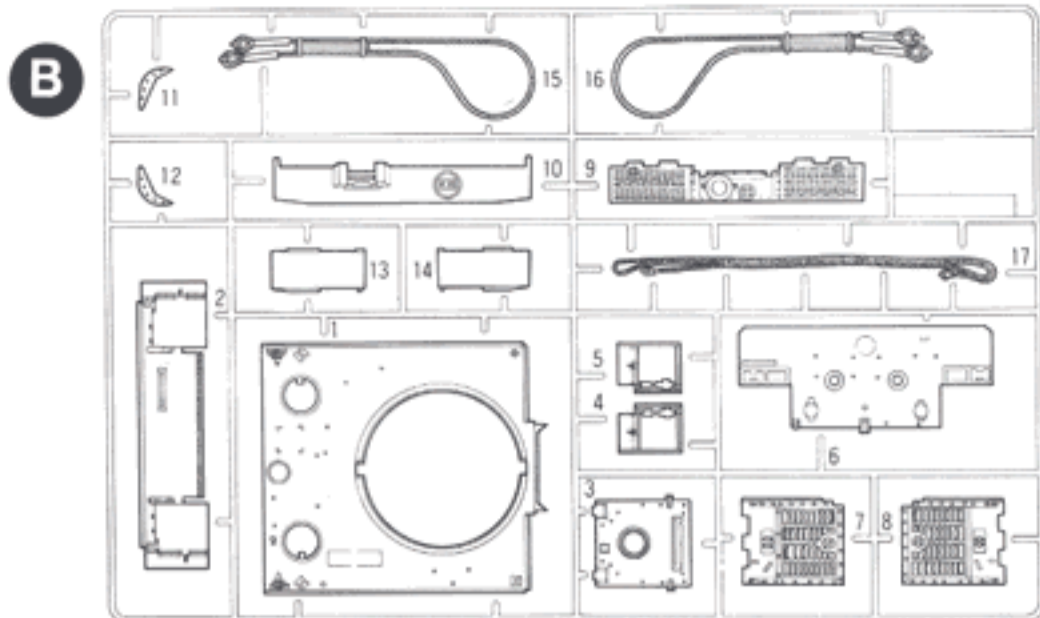
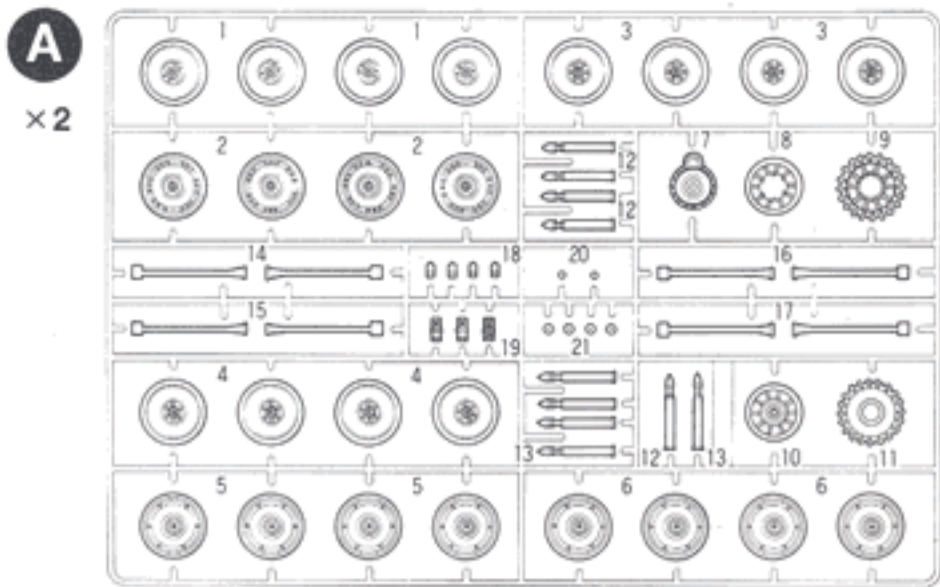


C-제101SS 중전차대대(101st Heavy Tank Battalion)
1944년 6월 노르망디, 프랑스. Normandy, France. June 1944

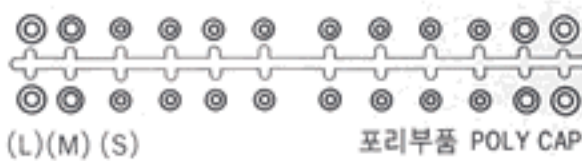
-  ▶ 다크 옐로우 Dark Yellow
-  ▶ 레드 브라운 Red Brown
-  ▶ 포리스트 그린 Forest Green



부품도 Parts Locating Diagram



●에칭부품
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 (주)아카데미과학
HONEY MODEL LTD. ACADEMY PLASTIC MODEL CO., LTD.