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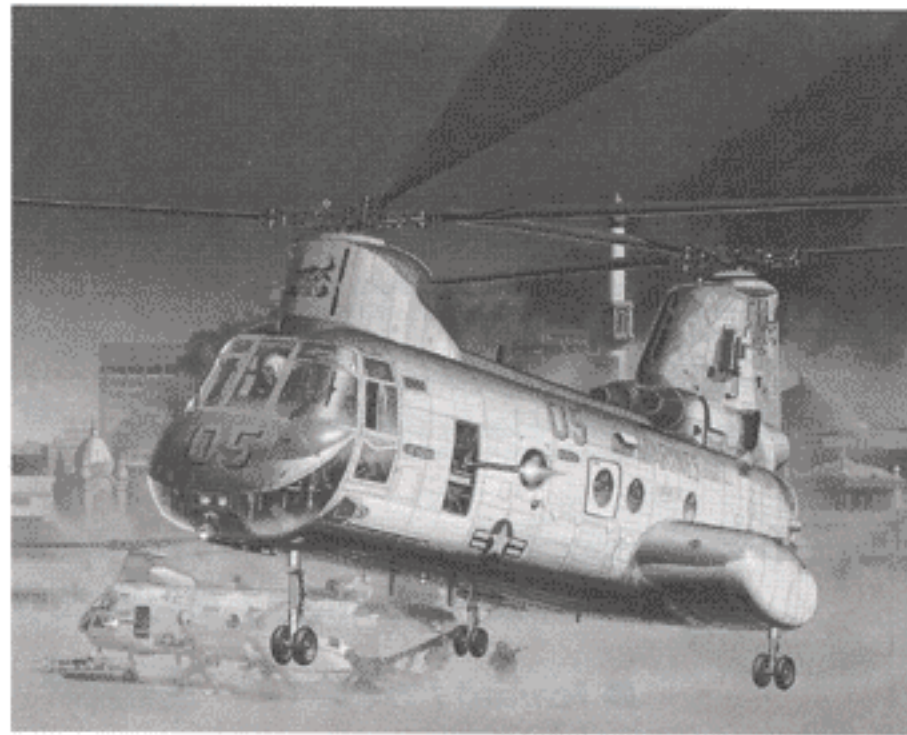
MADE IN KOREA

CH-46E

CURRENT U.S. MARINES

"BULL FROG"

CH-46E "볼 프로그" 현용 미해병대 헬리콥터



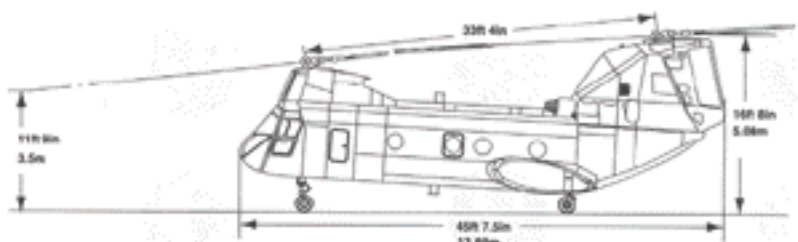
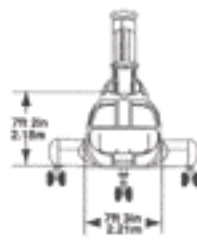
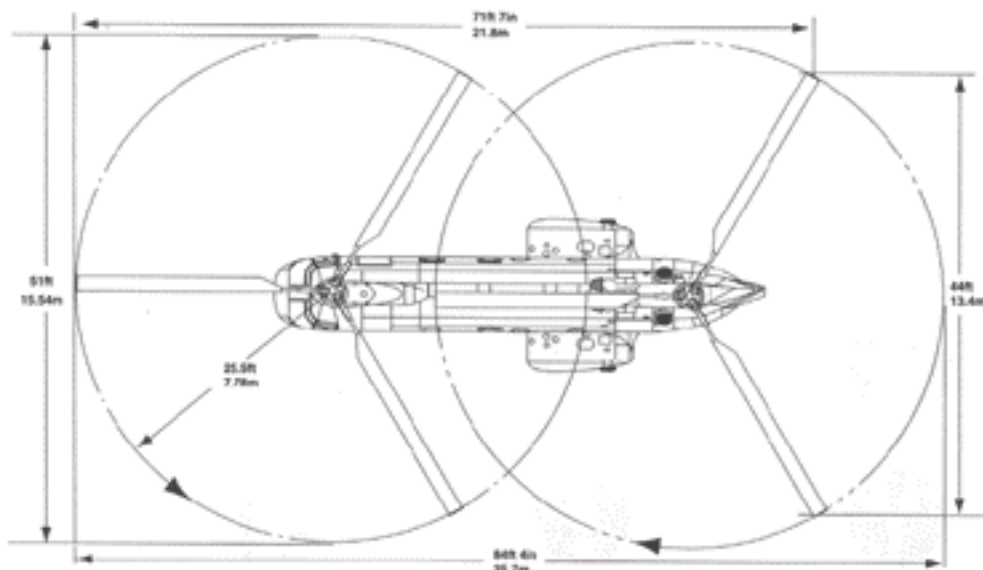
The Boeing CH-46 Sea Knight helicopter has served the US Navy and Marine Corp since the early 1960's. Its tandem rotor design sets it apart from other single rotor Navy and Marine helicopters and gives the Sea Knight excellent stability, powerful lifting capability and superior handling in difficult weather conditions.

The CH-46 was first procured in 1964 to satisfy the Marine Corp's medium-lift requirements in Viet Nam. Since then the Sea Knight has served in almost every Marine peacetime and combat assignment. The US Navy also acquired the helicopter, though in smaller numbers, for shipboard re-supply missions ("vertical replenishment / Vertrep"), search and rescue (SAR) and general transport. The mission of the CH-46E Sea Knight helicopter in a Marine Medium Helicopter (HMM) squadron is to provide all-weather, day/night, assault transport of combat troops, supplies, and equipment during amphibious and subsequent operations ashore. Troop assault is the primary function and the movement of supplies and equipment is secondary. Additional tasks are: combat and assault support for evacuation operations and other maritime special operations; over-water search and rescue augmentation; support for mobile forward refueling and rearming points; aero medical evacuation of casualties from the field to suitable medical facilities. Besides the contra-rotating tandem rotors another interesting feature of the CH-46E Sea Knight is the two 1800 shaft horsepower GE-T58 engines mounted to the rear rotor pedestal. A drive shaft runs to each rotor and in the event of an emergency, either engine can drive both rotors. The Cargo bay has a loading ramp that can remain open in flight for outsized cargo or for parachute drops. For cargo loading a winch is built into the forward bulkhead and a system of rollers in the floor speeds loading and unloading. Additionally a cargo hook built into the belly allows external sling loads up to 4000 pounds. The three-bladed rotors fold hydraulically for easier ship-board storage. A pintle mounted 0.50 caliber Browning machine gun can be installed on each side of the aircraft for self protection into high threat areas. The Marines have given it the nickname "Frog" as the side sponsons and the aircraft's nose-up attitude on the ground make it look like a frog ready to hop. Updated versions with increased fuel capacity and larger sponsons are given the name "Bullfrog"

Der Boeing CH-46 Sea Knight Helicopter steht bei der US Navy und dem Marine Corps seit den frühen sechziger Jahren im Einsatz. Sein Tandem Rotor Design ist nicht nur sehr auffällig, sondern sorgt auch für exzellente Stabilität, hohe Transportkapazität sowie überlegenes Handling bei schlechten Wetterverhältnissen. Der Hubschrauber wurde ab 1964 angeschafft und hatte seine ersten Einsätze in Vietnam. Seitdem war er bei jeder Kriegs- und Friedensmission des Marine Corps dabei. Die US Navy erhielt auch eine kleinere Anzahl für Nachschub-, Rettungs- und Transportaufgaben. Das Pflichtenheft des CH-46 umfasst den Allwetter/Tag und Nacht Transport von Truppen, Material und Ausrüstung während und nach einer amphibischen Operation. Dabei ist der Truppentransport die primäre Aufgabe und Material und Ausrüstung die sekundäre. Weitere Zwecke sind Evakuierungen und andere seegestützte Einsätze wie Überwassersuche und Auftanken und Aufmunitionieren von vorgelagerten Stellungen sowie Verwundetentransporte. Außer zwei Rotoren besitzt der CH-46 auch zwei Triebwerke mit je 1800 PS an der Welle. Jede Maschine treibt einen Rotor an, im Notfall kann aber auch ein Triebwerk beide Rotoren versorgen. Die Laderampe kann während des Fluges offen bleiben, um sperrige Lasten zu transportieren oder Luftlandetruppen den Absprung zu ermöglichen. Eine interne Winde hilft bei der Be- und Entladung, zusätzlich erleichtert ein Rollensystem im Boden den Vorgang. Ein Kran im Bauch des CH-46 erlaubt das Mitführen von Außenlasten bis zu 4000 Pfund. Die Rotoren können zwecks Platzersparnis hydraulisch gefaltet werden. Für die Nahverteidigung sind bewegliche 0,50 Browning MGs in den Seiten möglich. Die Marines nennen den CH-46 "Frog"(Frosch), weil die hinteren Ausbuchtungen und die Kanzel an einen springbereiten Frosch erinnern. Neuere Versionen mit erhöhter Treibstoffkapazität und größeren Ausbuchtungen bekamen den Namen "Bullfrog"(Ochsenfrosch).

보잉 CH-46형 시어·나이트·헬리콥터는, 1960년대의 초메 이래, 미해군 및 미해병대에 사용되어 왔습니다. 동 헬리콥터의 탠덤 로터 설계는, 미해군 및 미해병대의 다른 로터 헬리콥터와는 달리, 시어·나이트·헬리콥터의 뛰어난 안정성, 강력한 수송능력,恶劣条件下에서의優れた操縦性을 나타내었습니다. CH-46형 헬리콥터는, 베트남에서의 중규모의 수송능력 및 미해병대의 요구를 충족시키기 위하여, 1964년에 처음으로 도입되었습니다. 그 이후, 시어·나이트·헬리콥터는, 미해병대의 평시 및 전투에서의 임무에 사용되어 왔습니다. 그 외에도, 미해군 또한, 동 헬리콥터를, 艦載의 재 보급 임무 (垂直 보급 / Vertrep), 搜索救助 (SAR) 및 일반 수송 등의 용도에 사용하기 위해 이 기종을 채택하고 있습니다. 미해병대의 중형 헬리콥터 (HMM) 해병 항공대는, 上陸作戰 및 上陸後의 地上作戰에서의 全天候, 昼夜間에서의 戰術部隊, 補給品, 裝備品의 強襲輸送 등 部隊의 強襲輸送가 주된 임무로, 補給品 및 裝備品의 輸送는 二次的인 임무입니다. 追加的인 임무는, 撤退作戰 또는 其他의 特殊海上作戰에서의 戰術 지원 및 強襲 지원, 洋上에서의 搜索救助의 增強, 前線의 再補給地點, 再武装地點에서의 機動 지원, 前線에서 適切인 医療施設에 傷者의 医療輸送 등입니다. 反對方向에 回転하는 2개의 로터는, CH-46형 시어·나이트·헬리콥터의 面白い인 특징은, 後部の 로터·베드 스텔에 裝備되어 있는 2기의 1,800馬力의 T58형 엔진입니다. 一本의 駆動軸가 2개의 로터間에 走り, 緊急事態에는, どちらか一方의 엔진으로 2개의 로터를 回轉させることができます. 貨物倉は, 是れ 出さうな 大寸法の 貨物を 搭載したり, 落下傘による 投下の 目的のため, 開けたまま いらられる 搭載 램프가 있습니다. 貨物 搭載의 ために, 起重機가 前部隔壁에 組み込まれ, 床上的 로터·시스템가, 貨物の 搭載, 取出しを 早めます. 追加的인 機體底部에 組み込まれた 貨物フック는 4,000磅までの 機外吊下げ 荷重に 耐えます. 艦載に 容易に 搭載できるように, 3枚羽根의 로터는 油圧で 折りたためます. 高脅威의 地域에 侵入時에 自衛のため, 螺巻式에 裝備可能인 口径 0.5인치의 브로잉型 機銃을 機體의 兩側에 裝備할 수 있습니다. 미해병대는, 동 헬리콥터의 兩側의 스폰손과 地上에서의 機首上げ의 姿勢가, 今にも 飛び上がり する 蛙に 似ているので 「蛙 (FROG)」 といふ ニックネーム을 付けて 있습니다. 燃料 搭載量을 増加し, より 大型의 스폰손을 裝備した 改良型의 동 헬리콥터에는, 「牛蛙 (BULLFROG)」의 名前가 付けられています.

보잉 CH-46 '시 나이트' 헬리콥터는 1960년대 초 이후 미해병대 및 해군의 대표적인 다목적 헬기로 사용중인 기종이다. CH-46 헬기에 채택된 쌍발의 탠덤식 모터설계는 미해군과 해병대에서 운용중인 여타 단발 헬기들과 비교할 때 탁월한 안정성과 강력한 수송능력을 제공하며, 악천후 상황에서도 우수한 조종성을 발휘할 수 있는 특징을 지니고 있다. CH-46 헬기는 베트남 당시 미해병대가 중형급 공수헬기의 필요성을 새로이 제기함에 따라 개발되었으며, 1964년부터 일선 배치가 개시되었다. 이후 CH-46 헬기 시리즈는 평시, 전기를 막론하고 미 해병대의 거의 모든 임무에 사용되고 있으며, 비록 소수이지만 미해군에서도 함상 재보급(수직보급/Vertrep), 수색/구조(SAR) 및 일반수송 등의 용도에 사용하기 위해 이 기종을 채택하고 있다. 미해병대의 중형헬기(HMM)비행대에 소속된 CH-46E형 헬기는 상륙작전 및 후속 지상작전 수행시 주, 야간 전천후로 병력 및 장비, 기타 각종 물자들을 신속히 수송하는 것을 주임무로 하고 있으며, 그 밖에도 철수작전 및 기타 특수 해상작전시의 전투 및 감시지원, 해상 수색구조의 보장임무, 전선의 재급유/재무장거점의 기동지원, 부상자의 후방 의료후송 등을 수행하고 있다. 탠덤식 로터외에 CH-46 헬기가 지닌 또 다른 특징으로는, 후방로터 대좌부에 장착되어 있는 1,800마력급의 T58형 엔진 2기를 들 수 있다. 1개의 구동축이 전, 후방 로터사이를 연결하는 방식을 채택하고 있는 CH-47의 동력전달체계는, 긴급사태 발생시 어느 한쪽의 엔진만으로도 2개의 로터 모두를 회전시키는 것이 가능하다. 화물칸의 경우 화물칸의 크기보다 긴 화물을 싣거나 화물의 낙하산무하에 편리하도록 열린 상태에서 비행가능한 화물칸 램프도어를 갖추고 있다. 아울러 화물 탑재용 원치가 동체내부 전방벽면에 장착되어 있으며, 화물칸 바닥엔 롤러장치기 설치되어 있어 화물의 신속한 탑재, 하역이 가능하다. 또한 기체하부에 장착된 화물 견인용 후크는 약 4,000파운드의 하중을 기체아래에 매단 채 비행이 가능하다. 그 밖에도 3개의 날개를 지닌 로터부는 선박등에 쉽게 실을 수 있도록 유압식 접이구조를 갖추고 있으며, 기체의 방어용도로 캘리버 .50 기관총을 동체 양측면에 장착할 수도 있다. 참고로 미해병대에선 동체 양 옆으로 튀어나온 돌출부 형태와 착륙상태에서 기수를 쳐든 자세가 마치 금방이라도 뛰어오를 듯한 개구리와 닮았다고해서 'FROG'라는 별명으로 부르고 있으며, 연료탑재량을 증가시켜 한층 대형화된 돌출부를 장비한 개량형 모델은 일명 '황소개구리(BULL FROG)'란 별명으로 부르고 있다.



<READ THIS BEFORE YOU BEGIN>

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

<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.



<READ THIS BEFORE YOU BEGIN>
 <ALLGEMEINE HINWEISE>
 <LISEZ CE QUI SUIT AVANT DE COMMENCER LE MONTAGE>
 (組み立てる前に)
 (조립하기 전에 꼭 읽어주세요)

<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 jamais manipuler la colle ou peinture à proximité d'une flamme.
- Aérer soigneusement la pièce où vous peignez(ouvrez la fenêtre). - Après avoir scellé 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。
- 接着剤を少し少なめに使うことがきれいに仕上げるコツです。 - 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。
- 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。 - 接着する前に部品を合わせて確かめます。

■ 조립하기 전에

- 부품을 조립하기 전에 설명서를 잘 읽어본 후 조립한다.
- 접착제기 전에 부품을 맞추어 확인한 후 조립한다.
- 부품을 자를 때에는 칼이나 니퍼로 깨끗이 잘라낸다.
- 에-컬 페인트나 접착제를 사용할 때는 창문을 열어 공기를 시시키고 화기를 없앤다.
- 접착제를 사용할 곳과 사용하지 않는 곳에 주의하고 너무 많이 바르지 않도록 한다.
- 사용 후 남은 부품은 어린 아이들의 손에 닿지 않도록 잘 처리한다.

<Rotor Assembly / 로터의 조립>

STEP 1

■ Forward / 전방로터

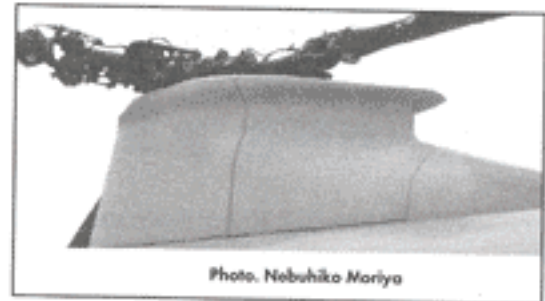
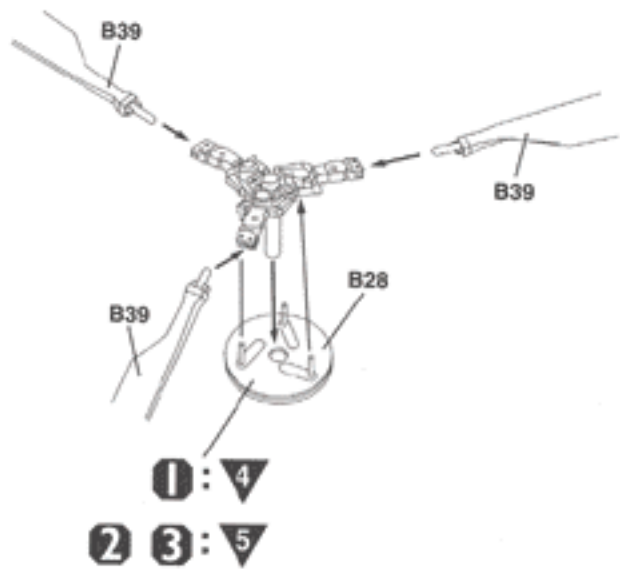
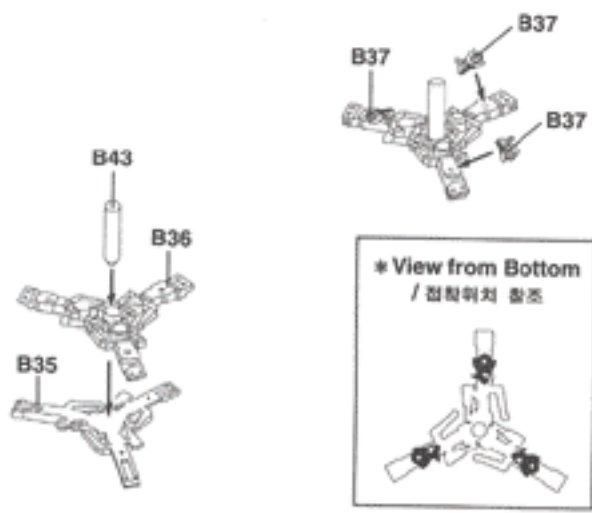
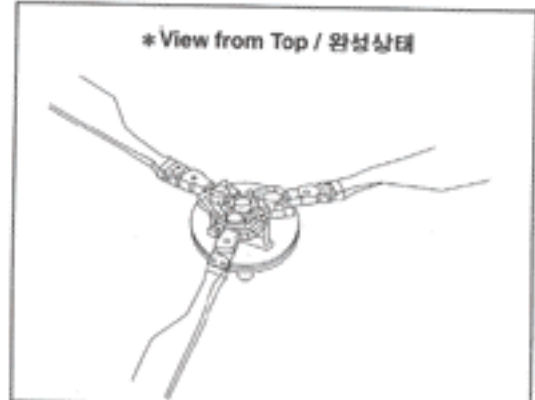


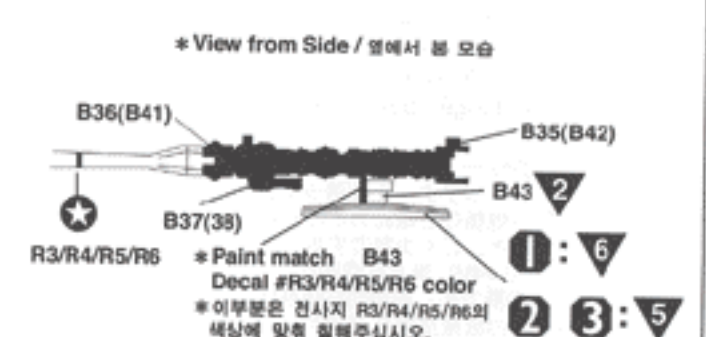
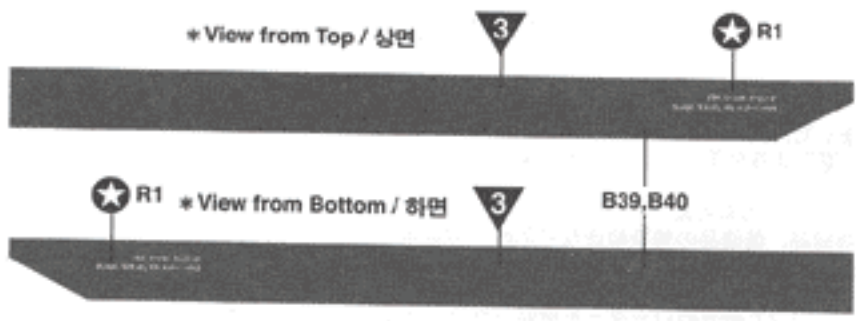
Photo: Nobuhiko Mariya



* View from Top / 완성상태

1: 4
2 3: 5

■ Applying Decals / 색칠 및 전사지 ■이기 참조

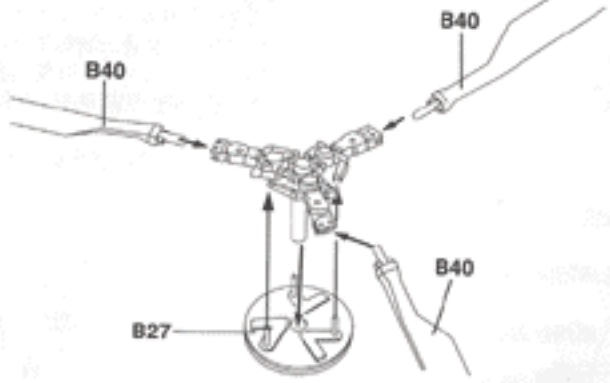
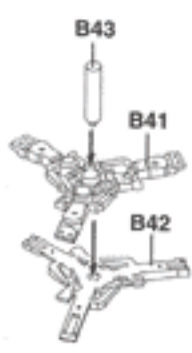
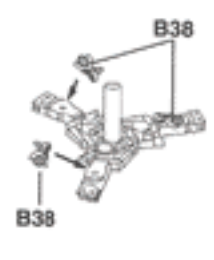


* View from Side / 옆에서 본 모습

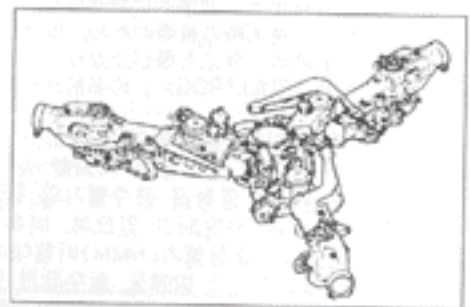
* Paint match B43 Decal #R3/R4/R5/R6 color * 이부분은 전사지 R3/R4/R5/R6의 색상에 맞춰 칠해주시요.

1: 6
2 3: 5

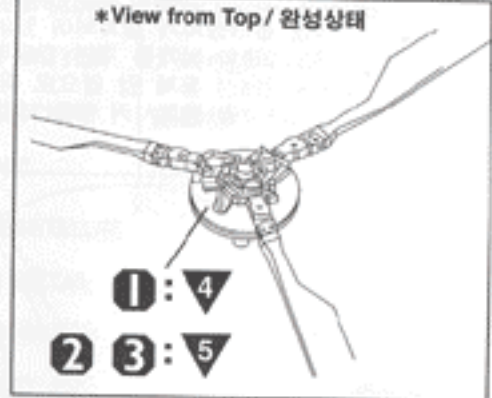
■ After / 후방로터



Photos: Nobuhiko Mariya



United States Navy, via Jonathan Priman

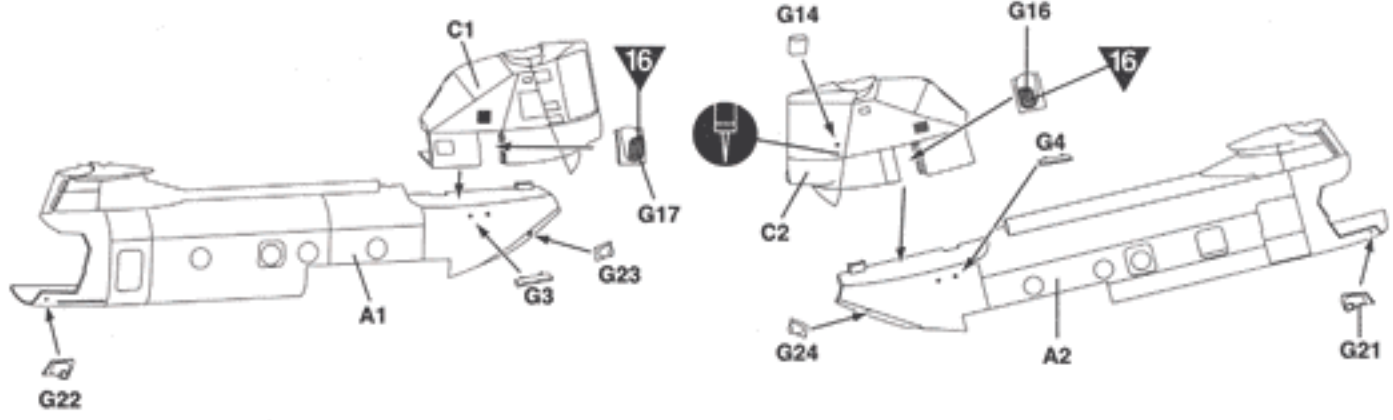
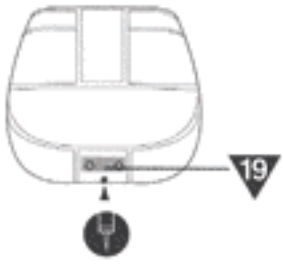


* View from Top / 완성상태

1: 4
2 3: 5

접착한다. Cement parts Coller Kleben Pegar Incollare Collar Kleber	접착하지 않는다. Do not cement Ne pas coller Nicht kleben No paper Non incollare Nao colar Nist kleven	수번을 조립한다. Repeat operation Répéter l'opération Wahang wiederholen Repetir la operación Repitire Repitir a operação Herhalen	전사지를 붙인다. Decals Décalcomanies Abziehbild	무게추를 넣는다. Add weight Lester Gewichte	구멍이나 틈을 메운다. Use filler Mastiquer Schließen
잘라낸다. Cut away Couper Schneiden Cortar Tagliare Cortar Snijden	선택한다. Optional parts Choix Auswahlmöglichkeit Election Scelta Opcao Kizice	반대쪽도 조립한다. Repeat for opposite side Répétition de la page Wiederholung für gegenüberliegende Seite	구멍을 뚫어준다. Make hole Faire un trou Öffnen	주의한다. Be careful Faire attention Hier Vorsicht	색칠 및 전사지 붙이기 번호 Painting scheme number Numeros de la lista de pinturas Lackierschemanummer

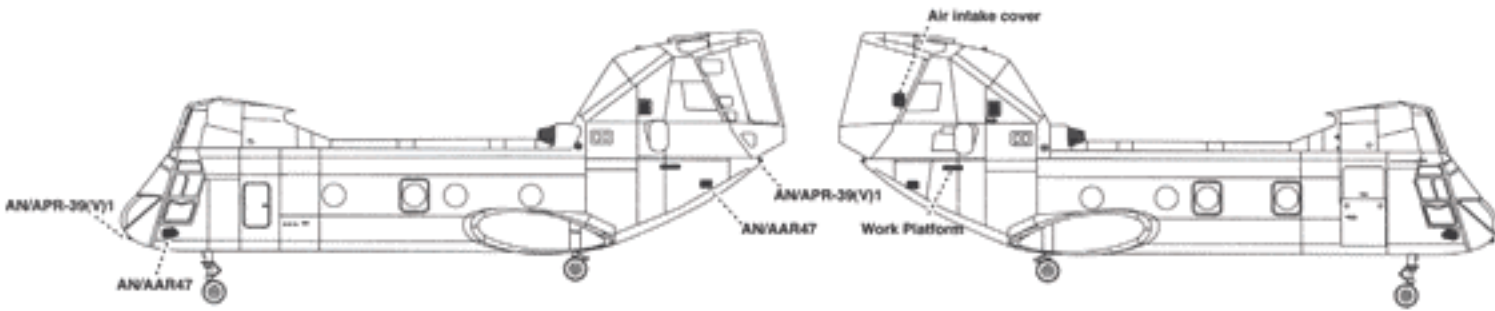
STEP 2



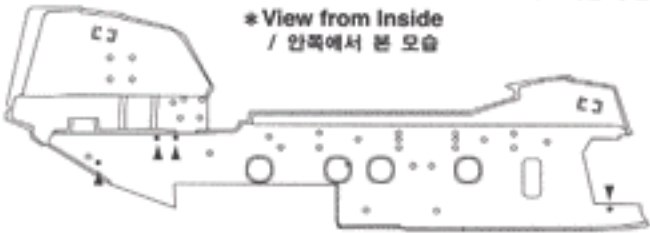
STEP 3



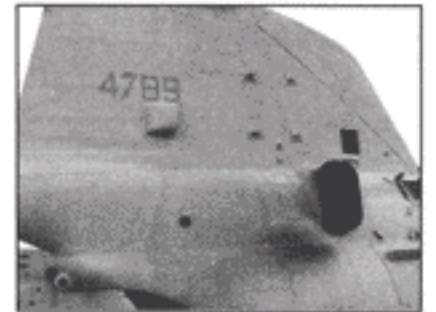
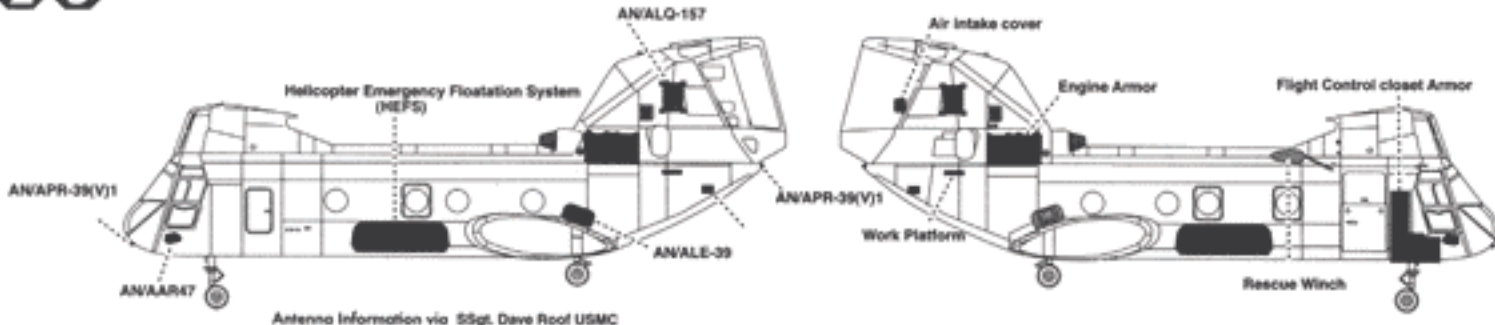
※ Refer to page 10 and 11 for painting.
10, 11페이지의 색칠지시를 참조하여 선택하십시오.



Drill holes location
▽ 표시된 부분에 구멍을 뚫어 주십시오.



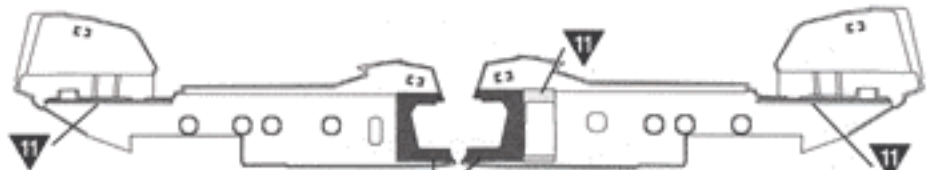
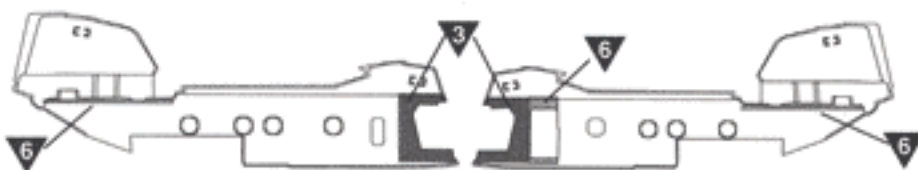
2 3



Drill holes location
▽ 표시된 부분에 구멍을 뚫어 주십시오.



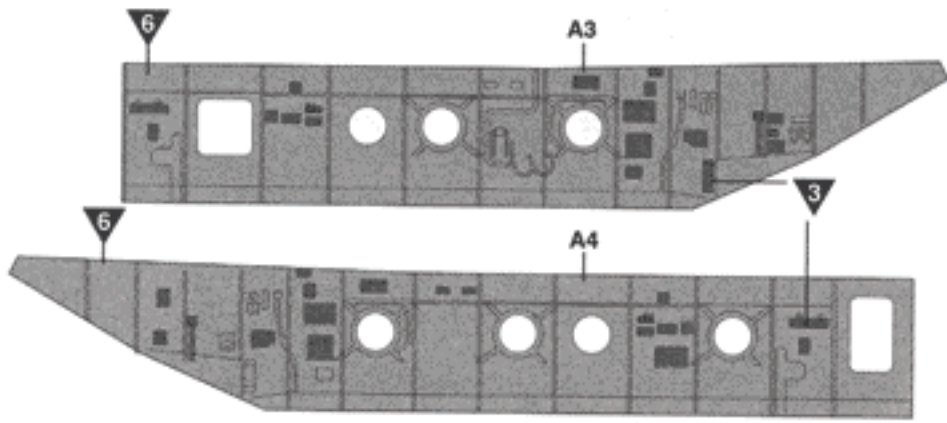
Interior Painting Instruction / 동체내측 색칠 참조



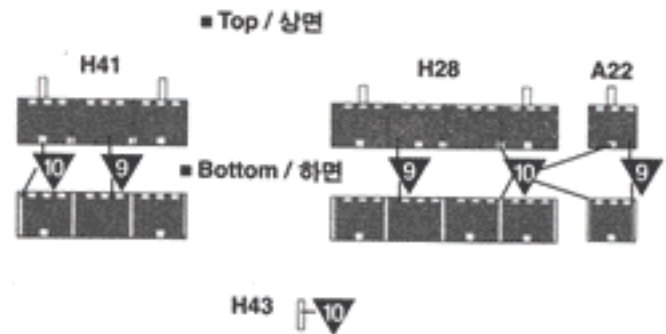
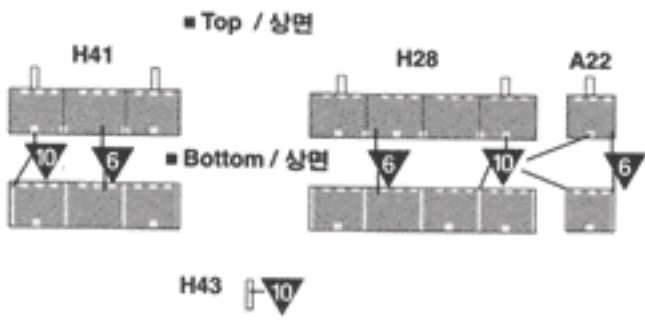
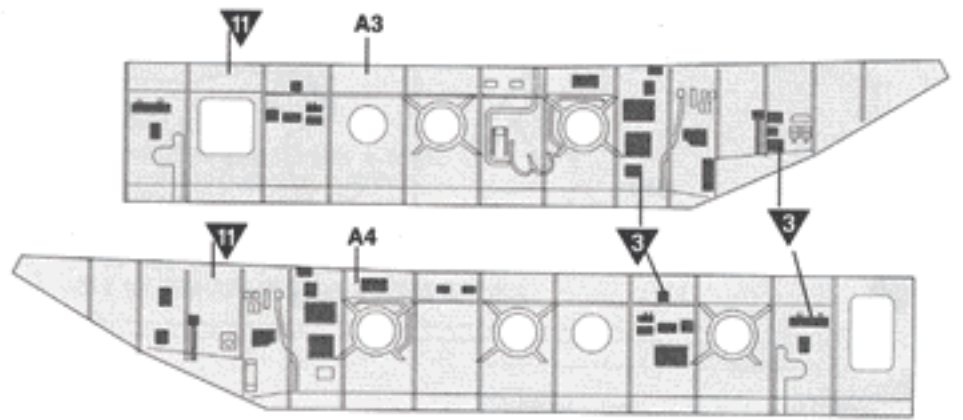
STEP 4

Interior Painting Instruction / 내부 색칠 참조

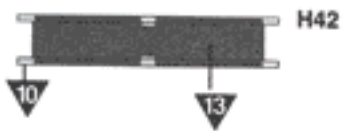
1



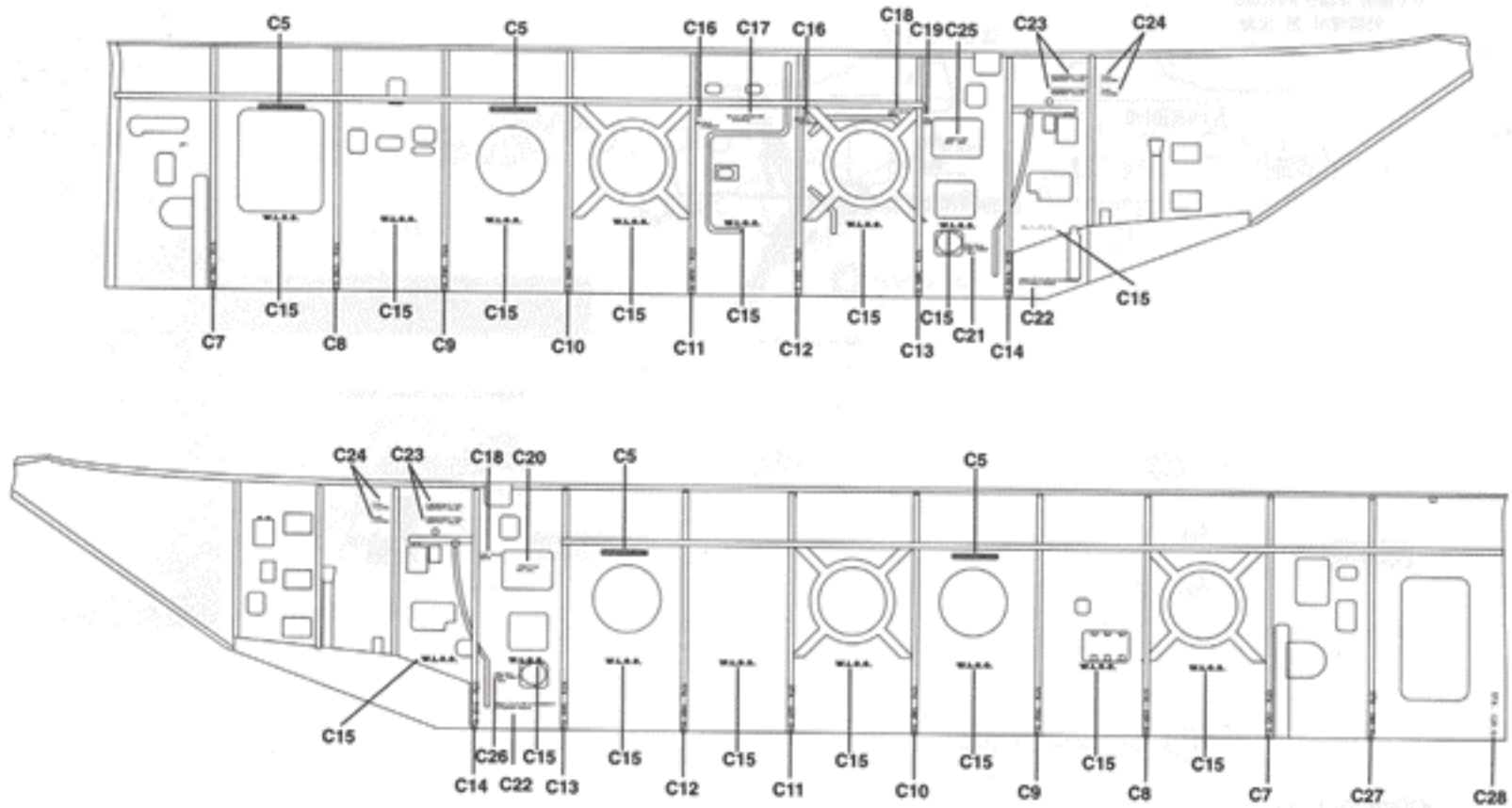
2 3



1 2 3



★ Interior Decal Applying / 동체내부 전사지 붙이기

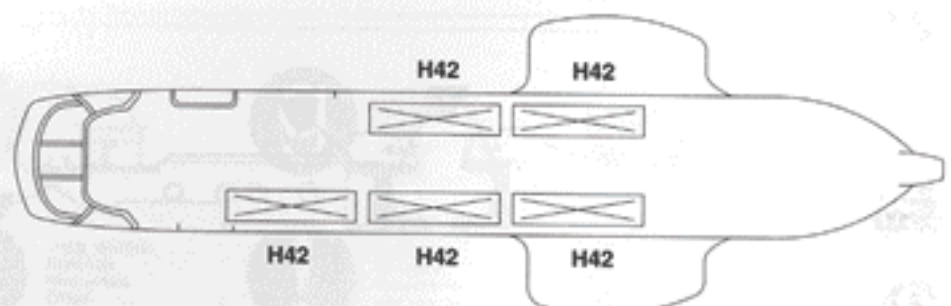
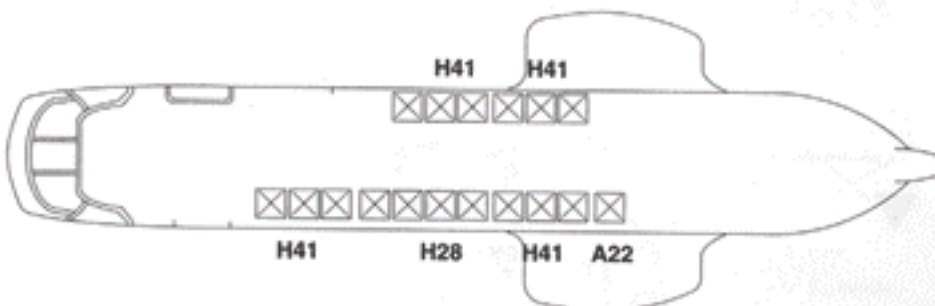


STEP 5

? <Option / 선택하십시오.>

■ Troop Seat Plan / 의자 장착시 ⇒ Step 6

? ■ Litter Plan / 뿔것 장착시 ⇒ Step 7



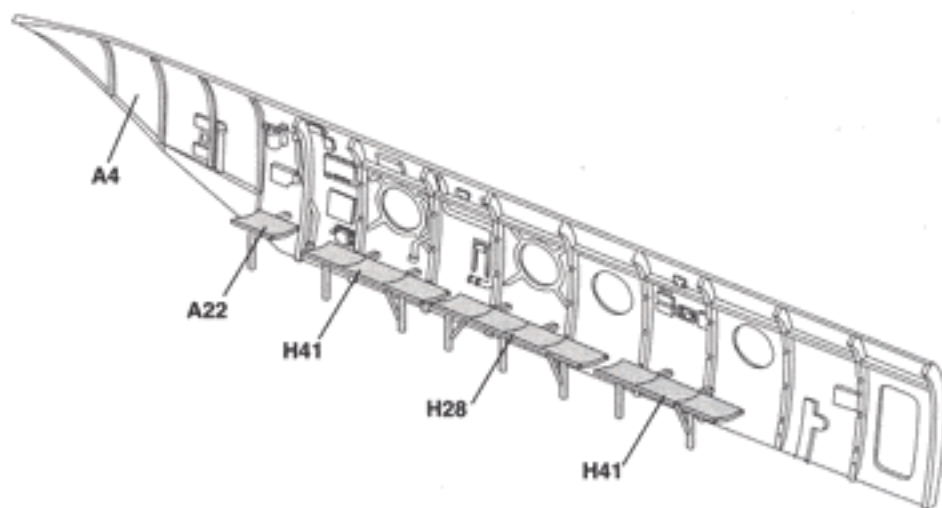
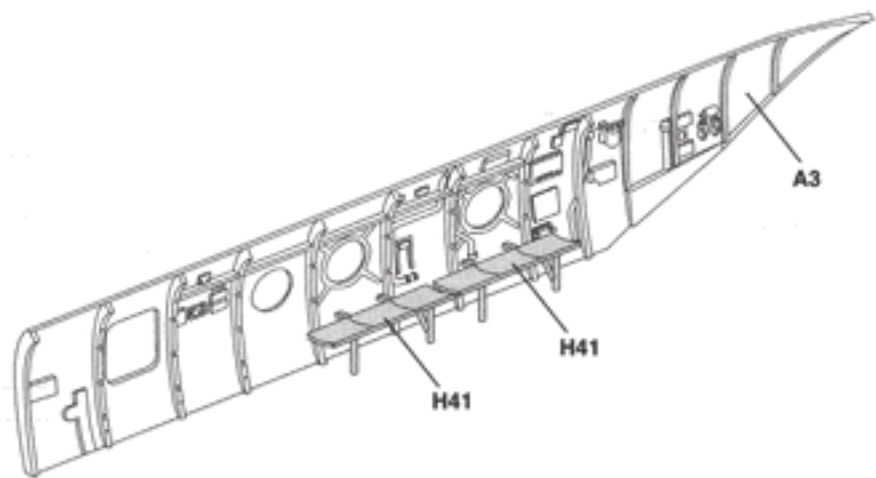
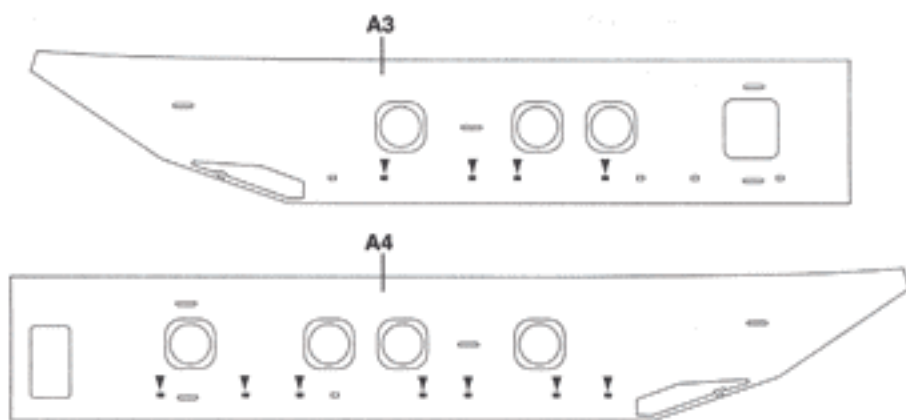
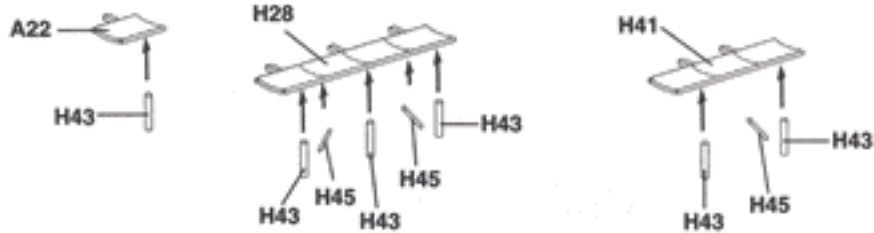
STEP 6

<Troop Seat Assembly / 의자 장착시>

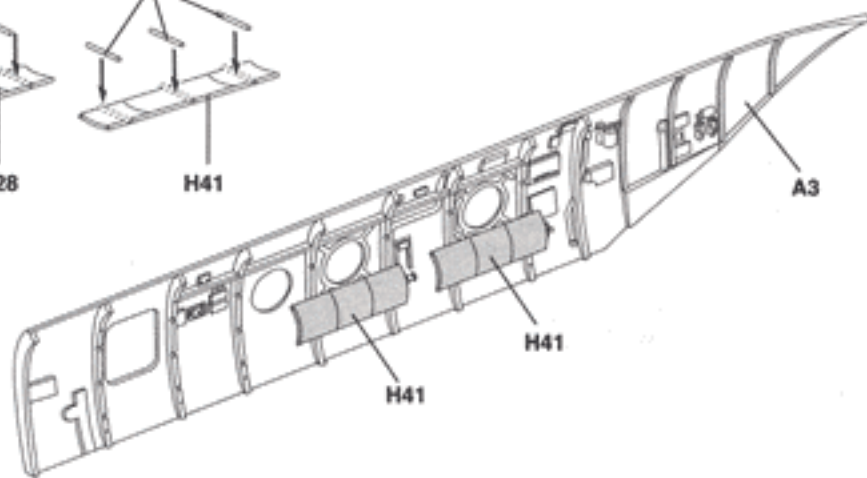
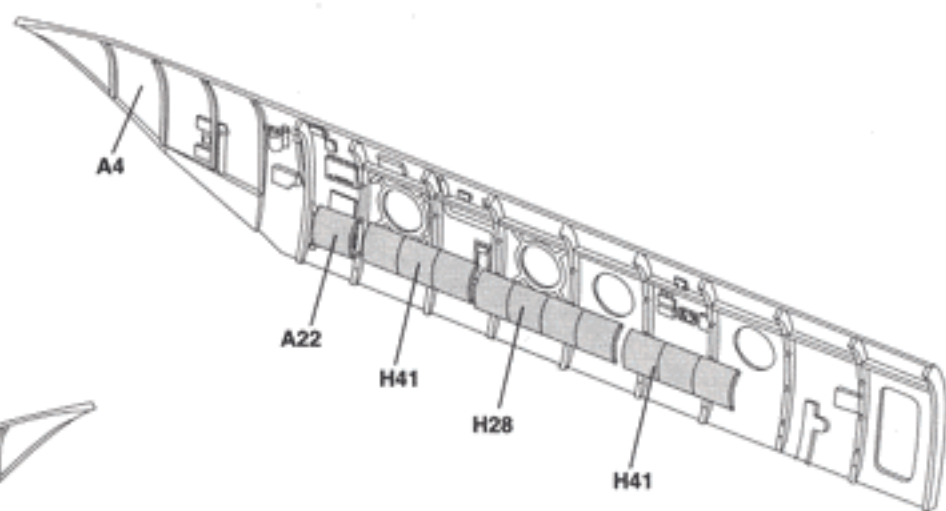
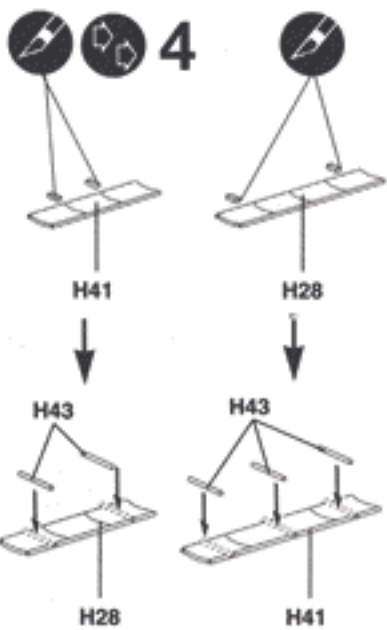
(A) Troop Seat Developed / 의자 펼친 상태

Drill holes for Troop Seats (developed)
▽표시된 부분에 구멍을 뚫어 주십시오.

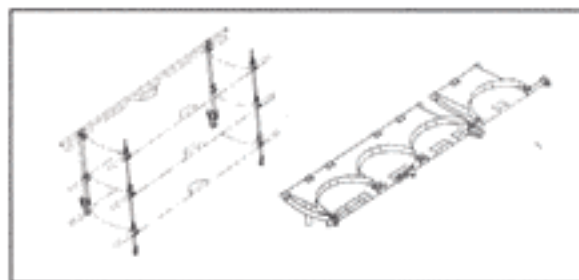
4



(B) Troop Seat Contained / 의자 접은 상태



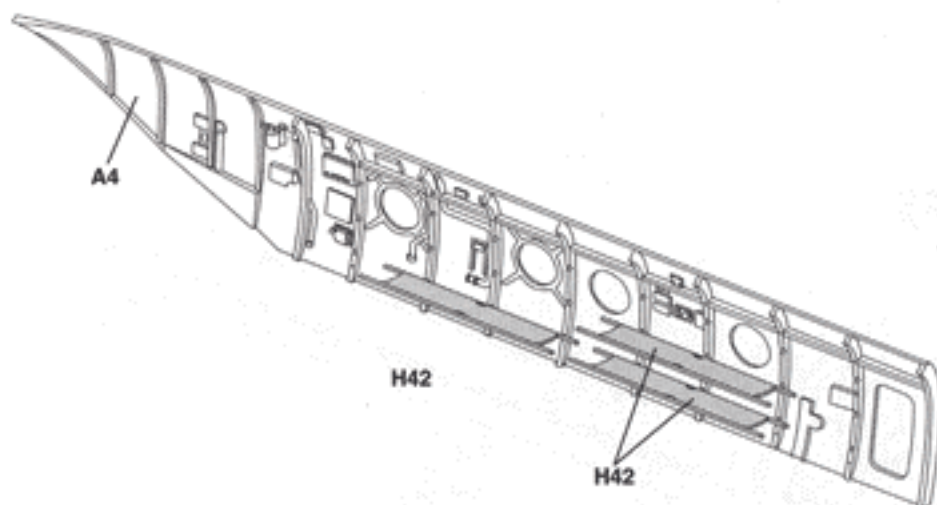
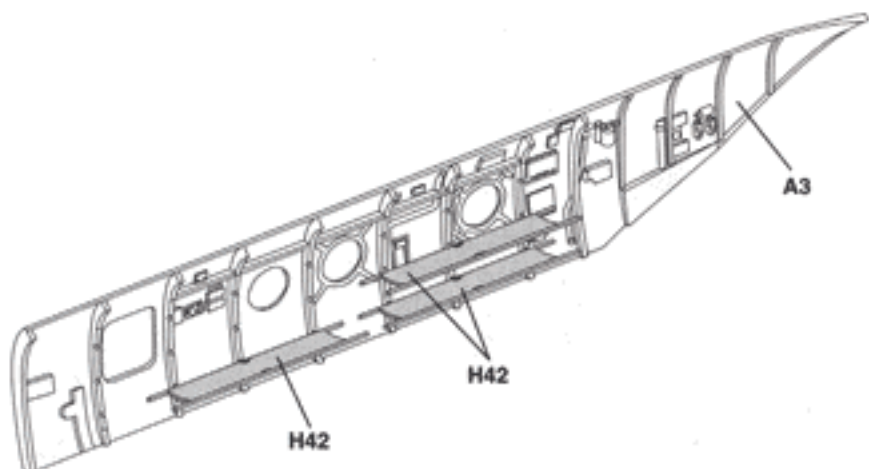
TYPICAL TROOP SEAT AND LITTER INSTALLATION



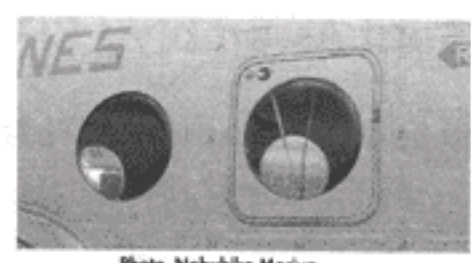
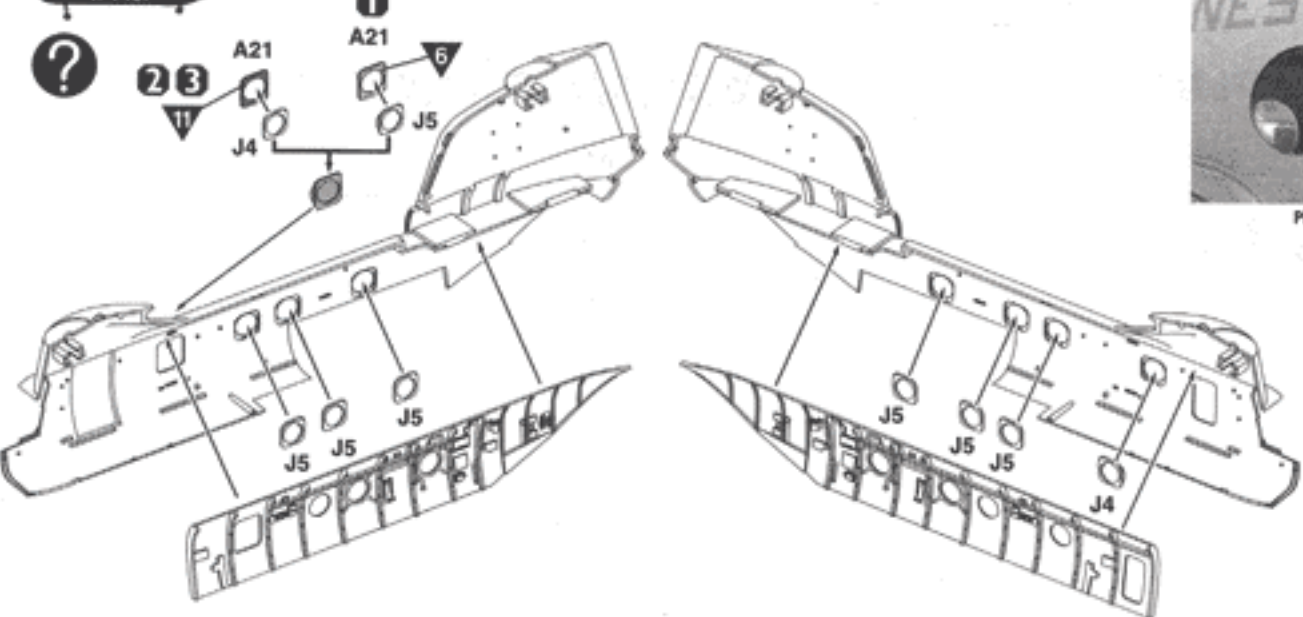
United States Navy, via Jonathan Primms

STEP 7

<Litter Assembly / 뭇 장착시>



STEP 8

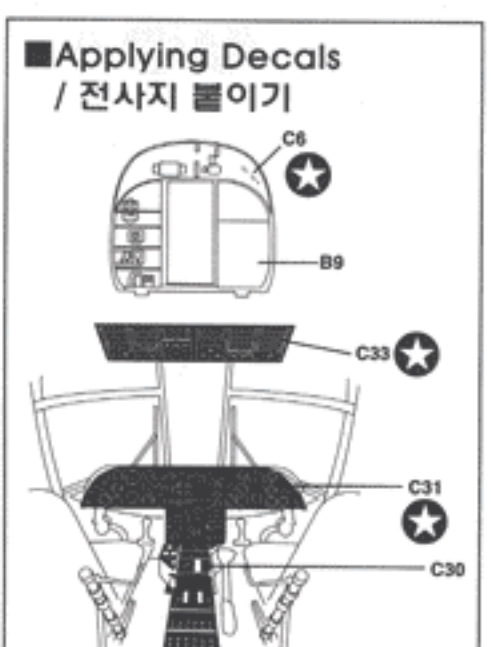
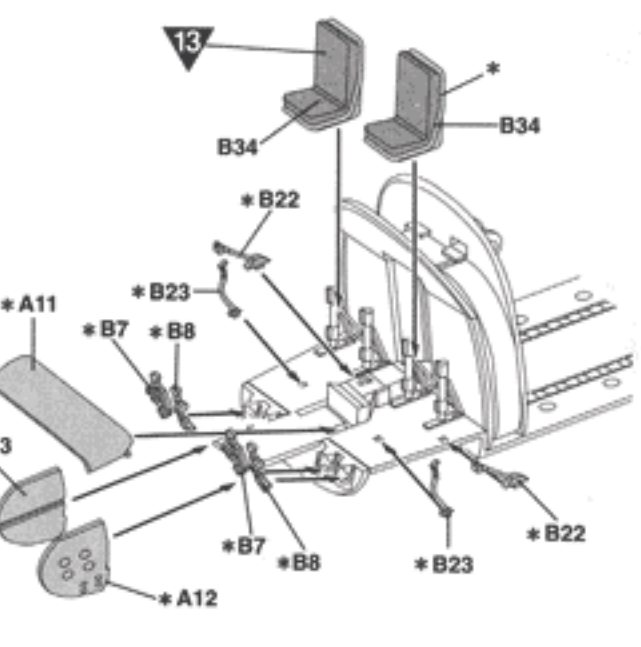
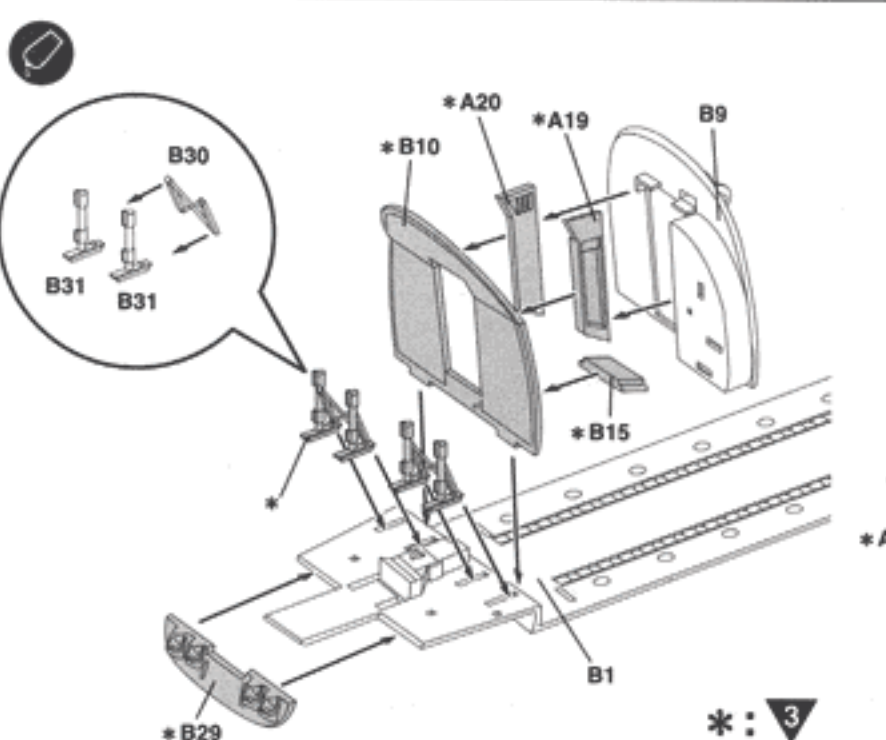
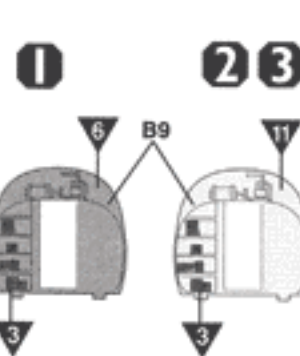
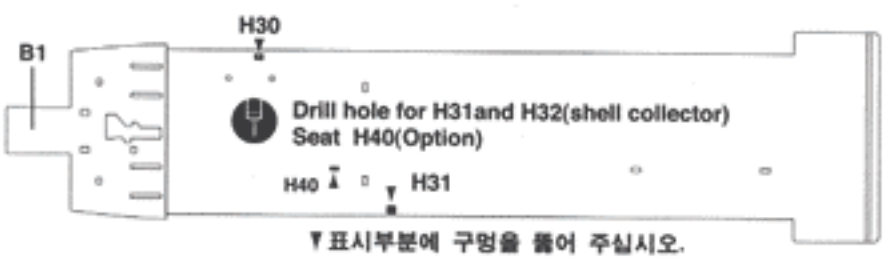


STEP 9

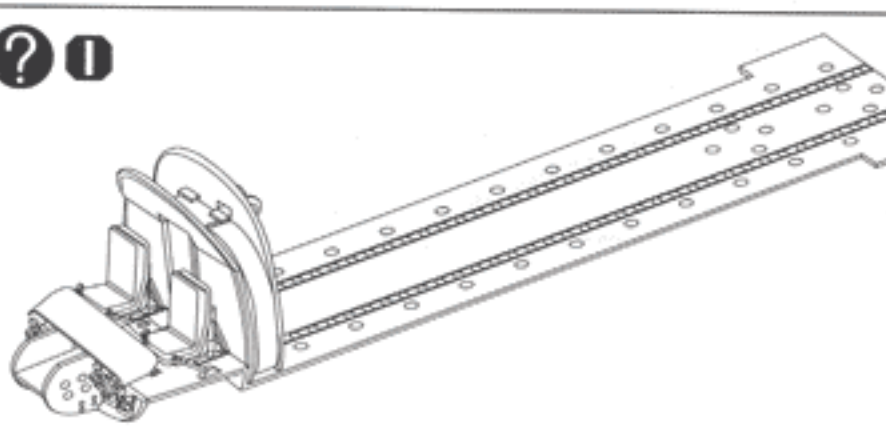
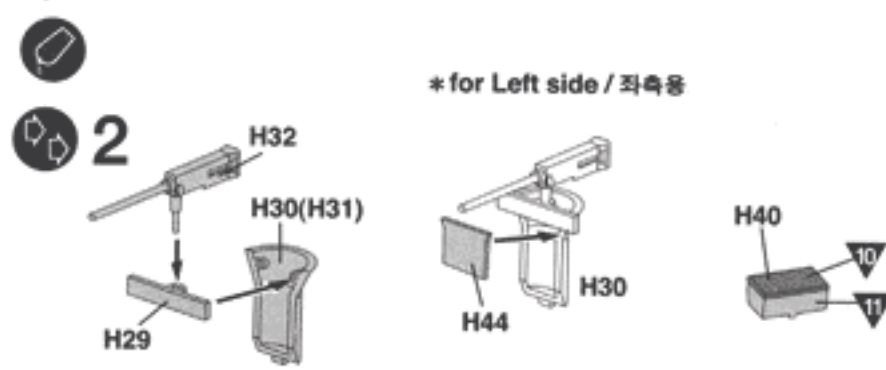
Interior Painting Instruction / 동체 내부색칠 참조

? 2 3

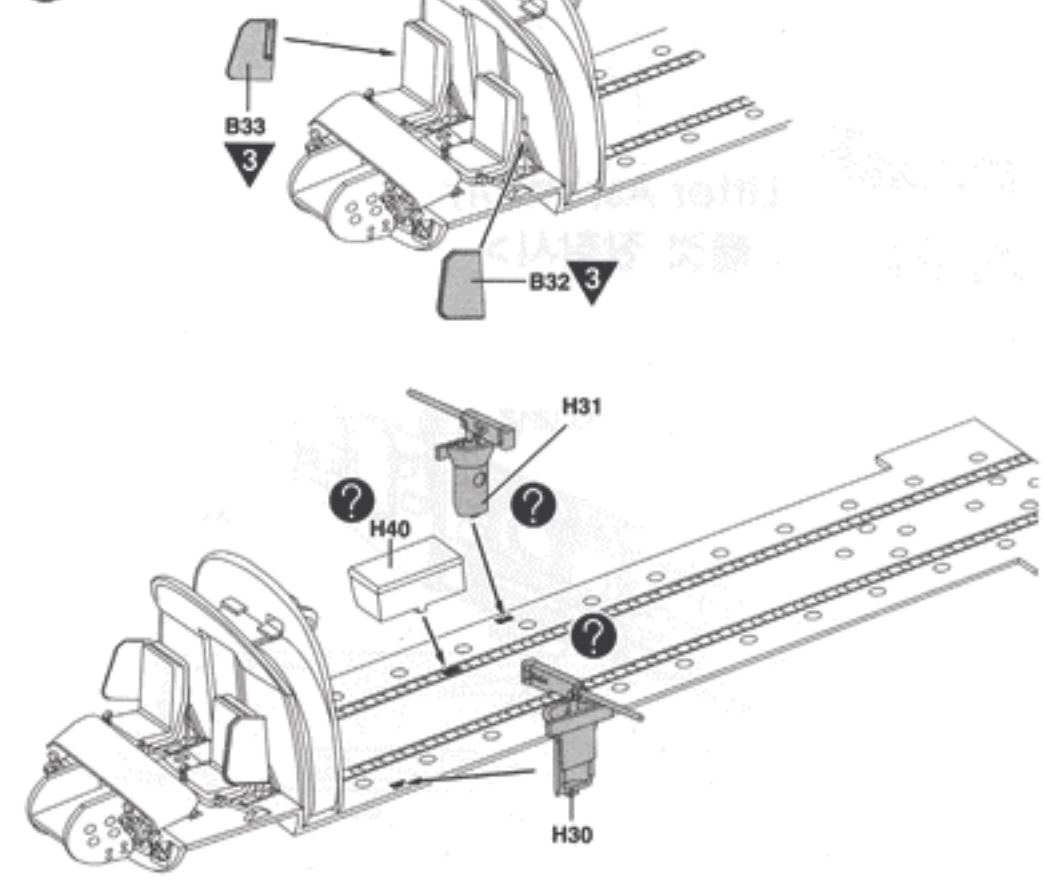
* View from Bottom / 아랫면에서 본 모습



STEP 10



? 2 3

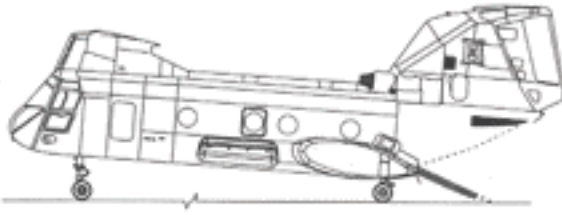


STEP 11

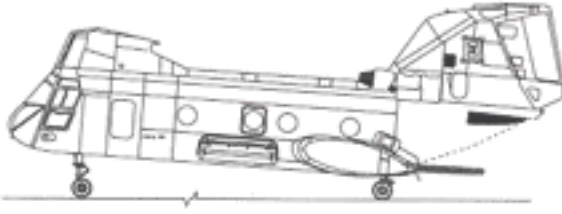
※Note Step 15, 16
과정 15, 16을 참조 하십시오.



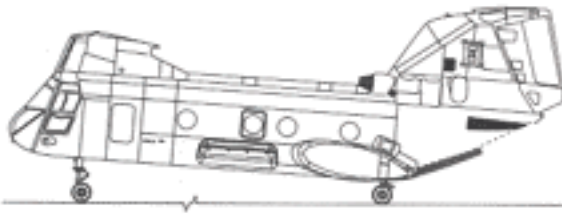
A



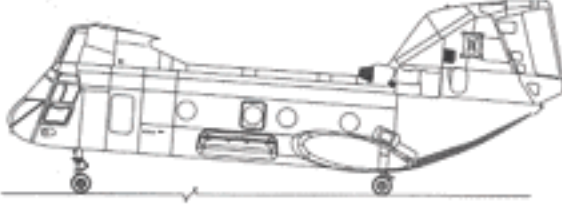
B



C

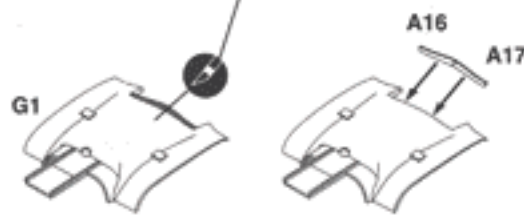


D



? A B

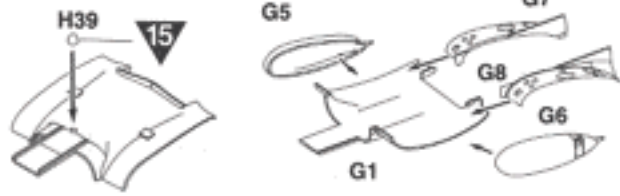
* remove shaded area for Ramp opening
/ 도어 열린상태로 조립시엔 이부분을 제거해 주십시오.



? C D



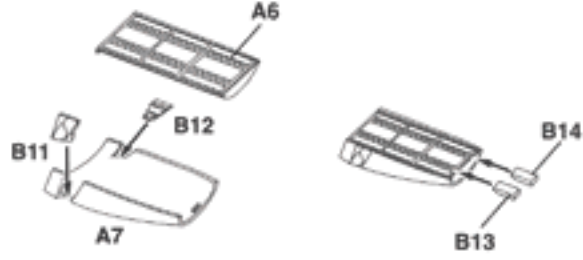
A B C D



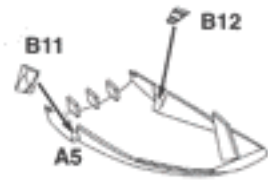
? 8



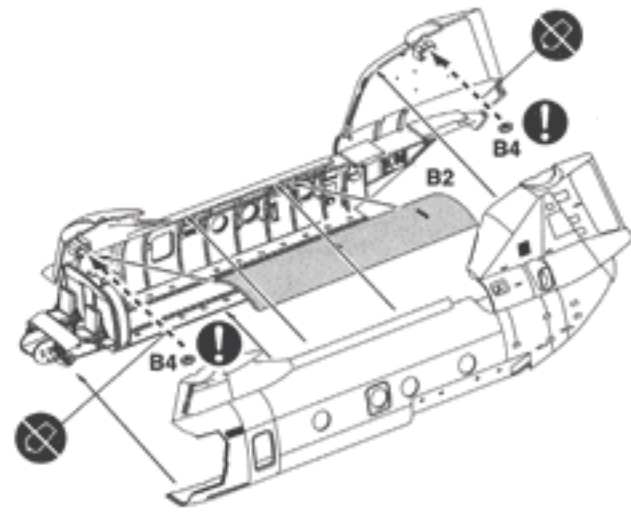
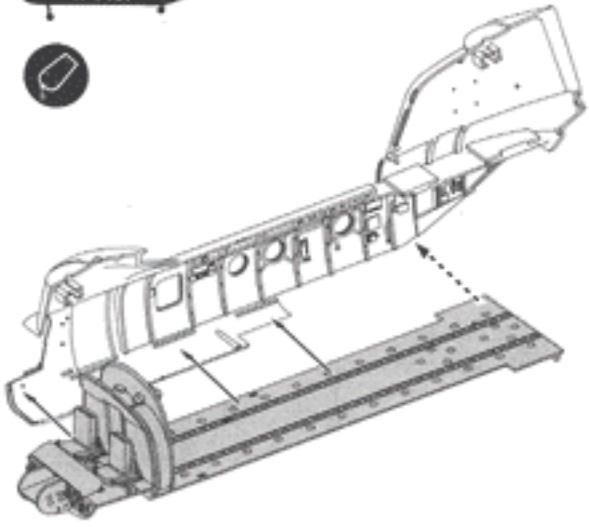
? A B C



? D



STEP 12



?



? E F

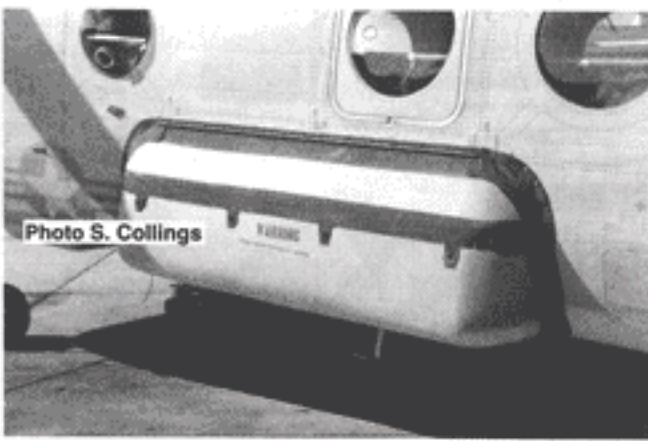
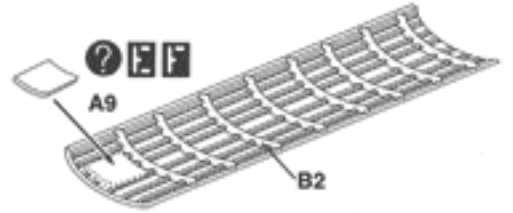


Photo S. Collings

The CH-46 can land on water in an emergency. Stability is aided by inflatable emergency flotation bags on each side that provide extra buoyancy. Occasionally the entire bag is painted the fuselage color.



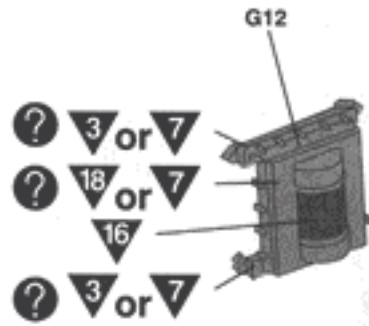
Photo S. Collings

The engine's protective armor panels are positioned away from the fuselage side allowing cooling air to enter.



Photo S. Collings

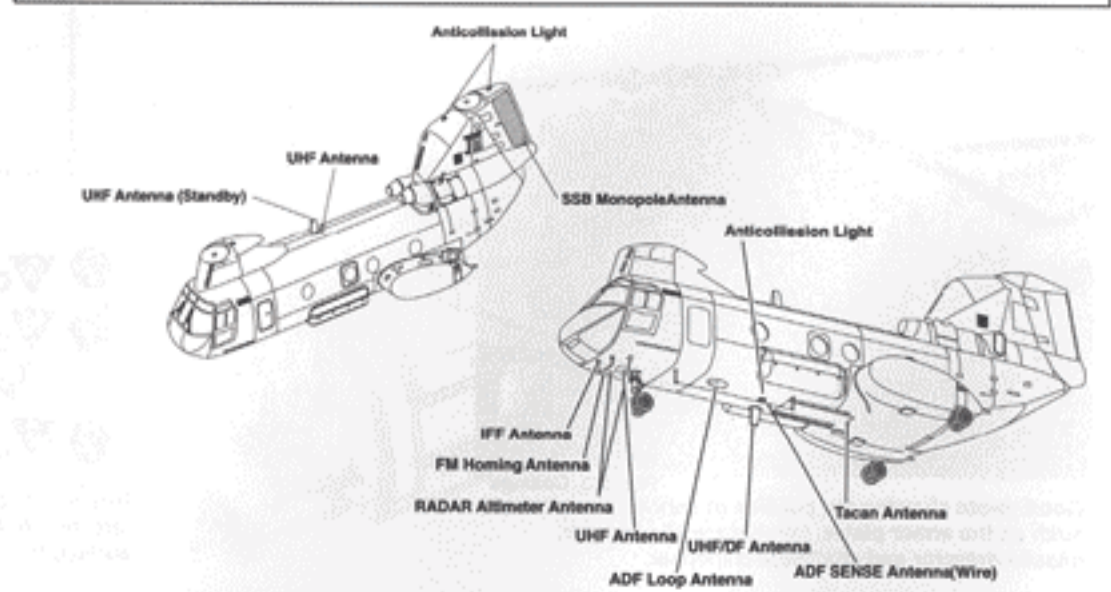
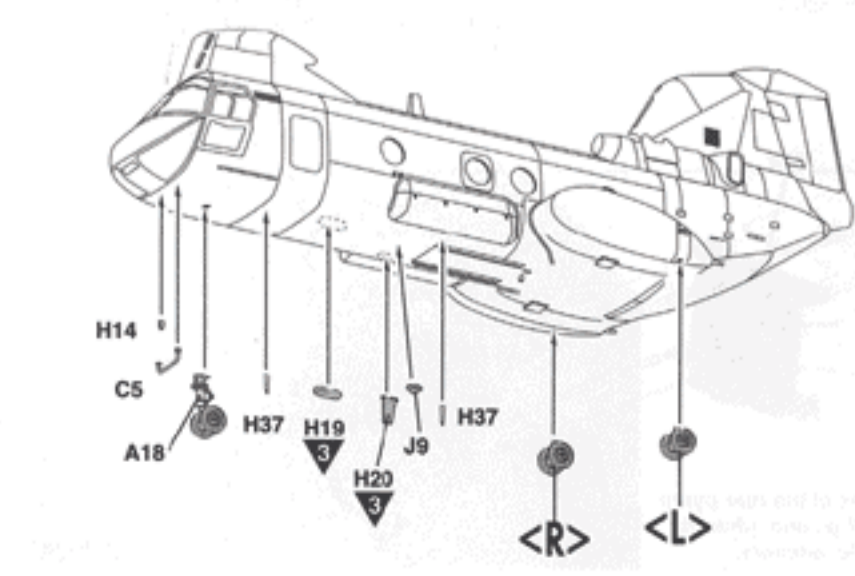
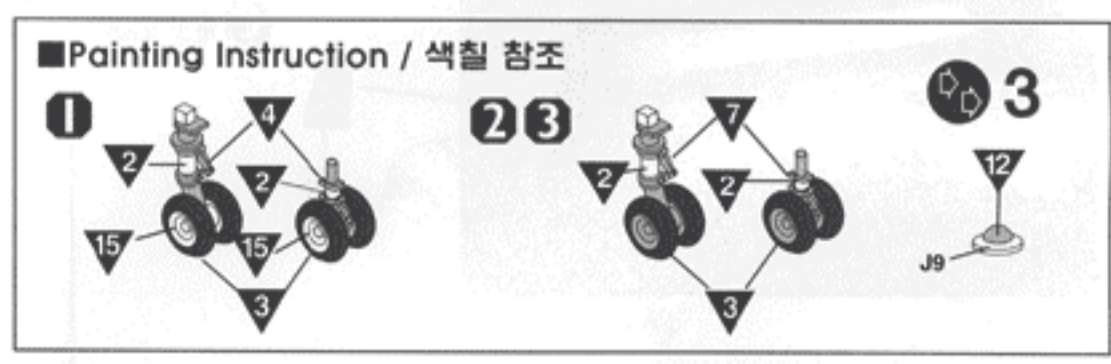
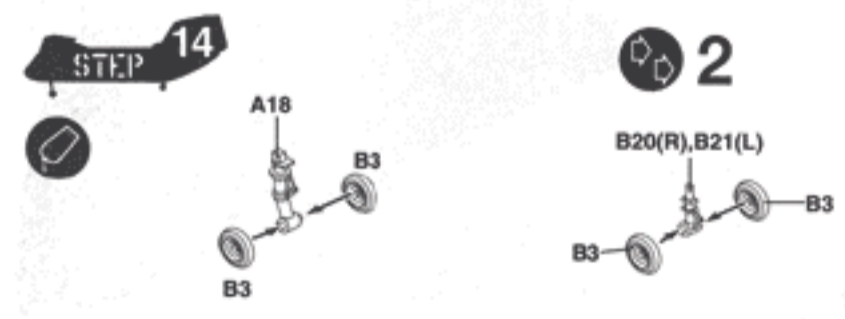
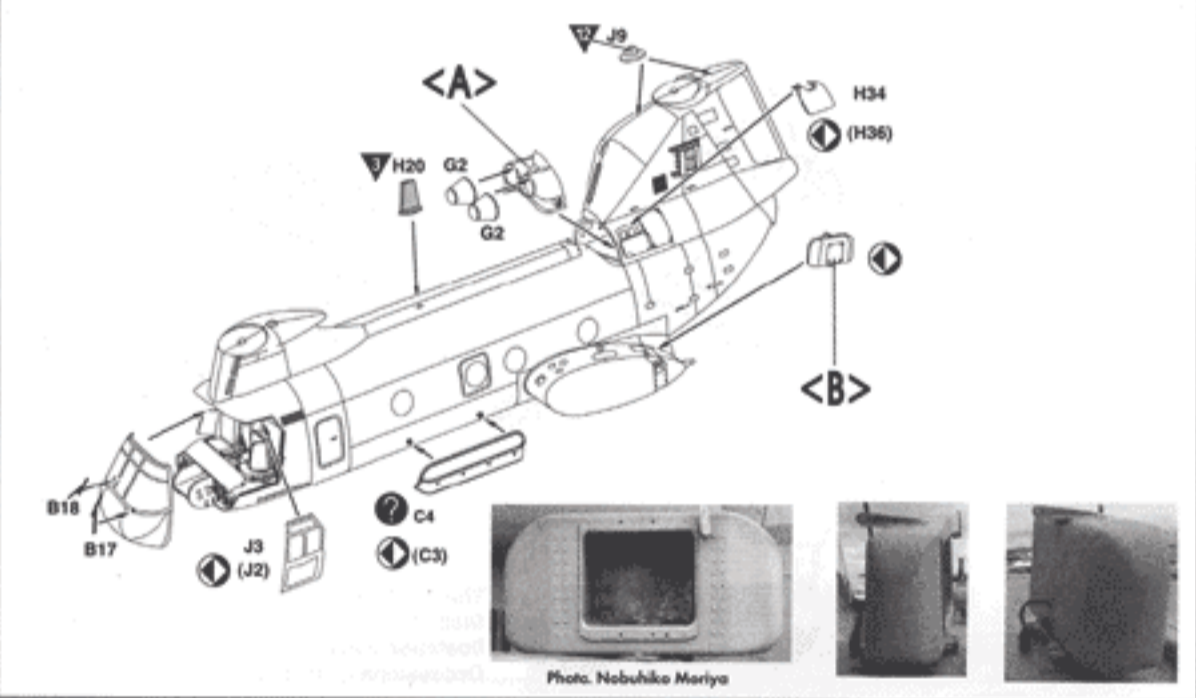
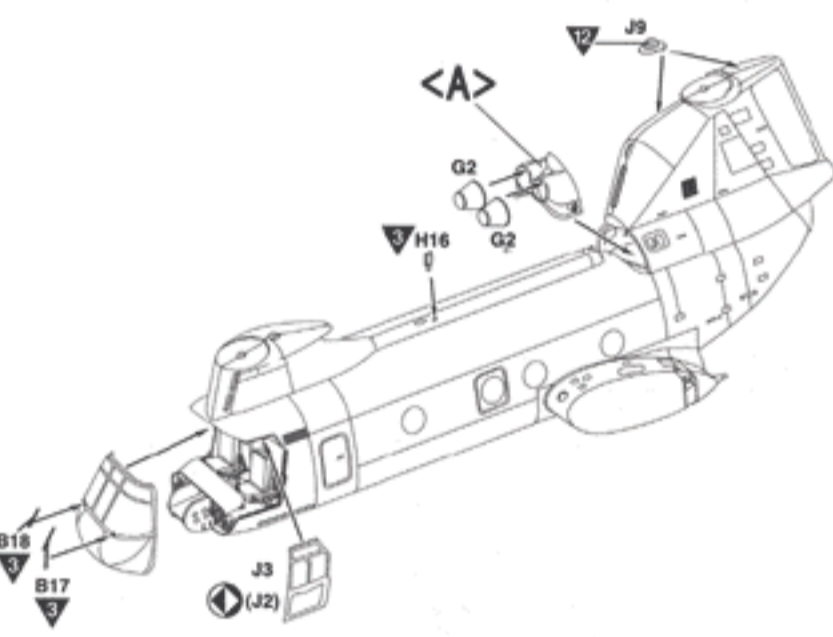
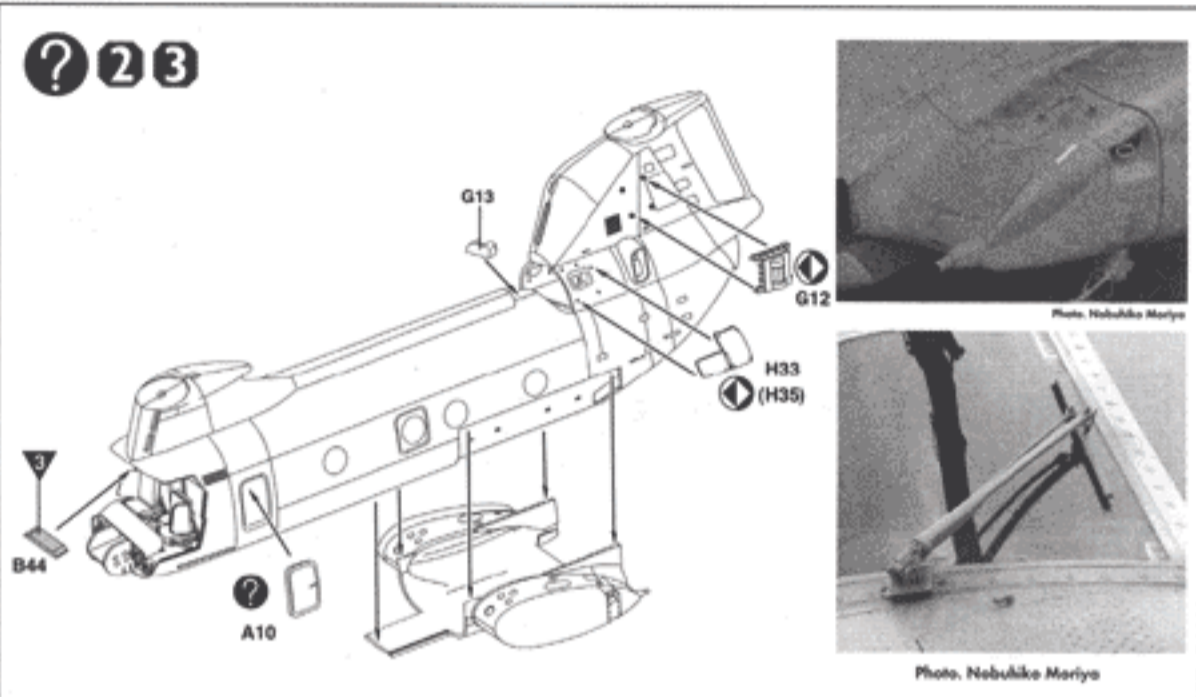
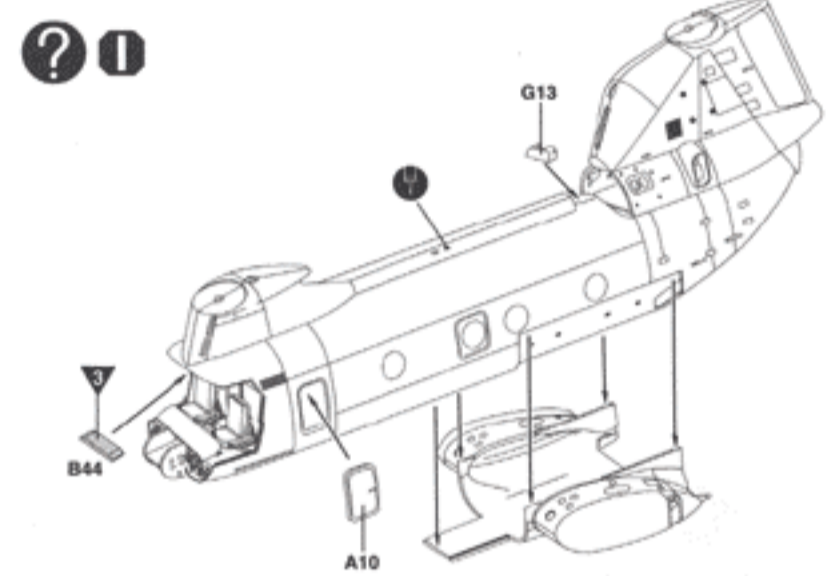
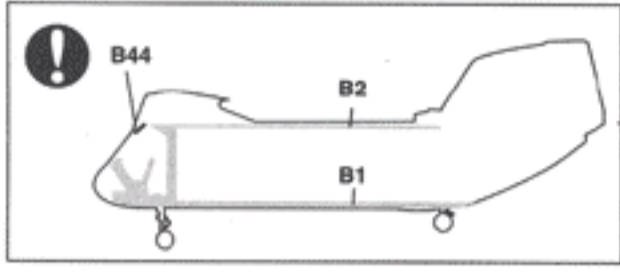
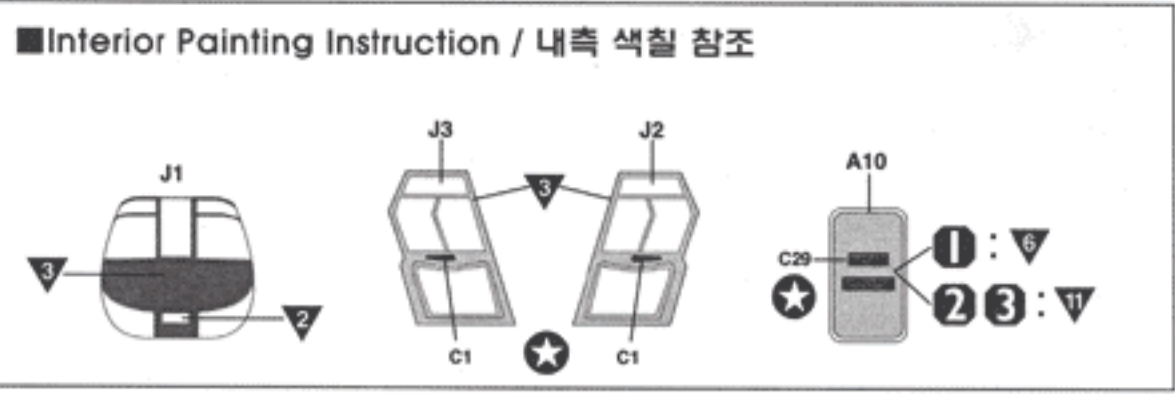
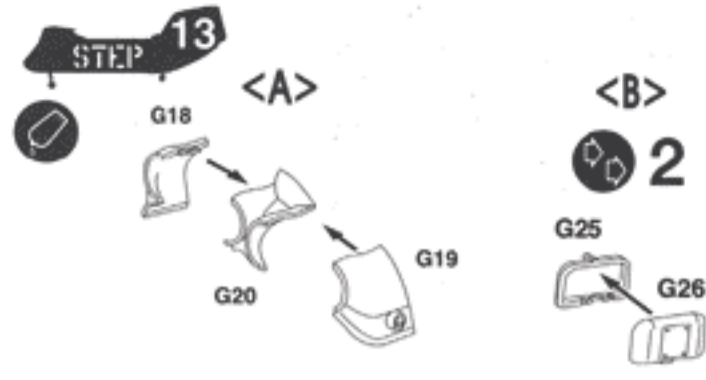
Good photo showing the position of various components such as the armor plates, infrared missile jammer, missile detector and chaff/flare dispenser.



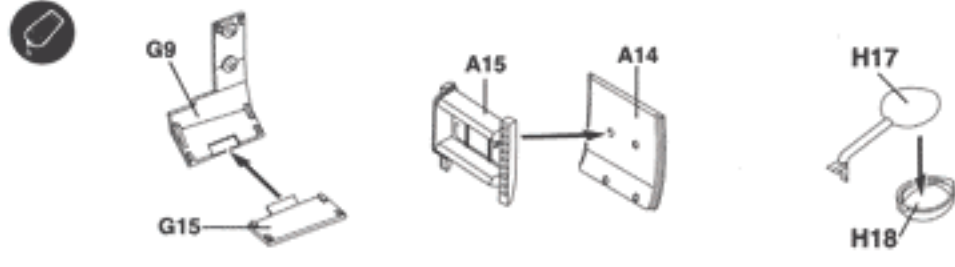
Mounted to the sides of the rear pylon are the AN/ALQ-157 pulsed infrared surface-to-air missile jammers.



Photo S. Collings

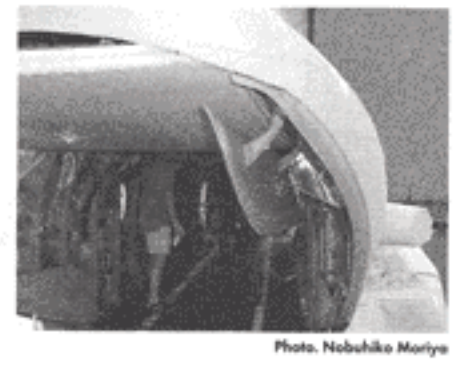
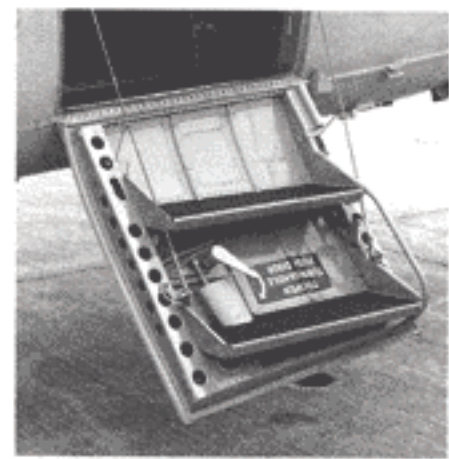
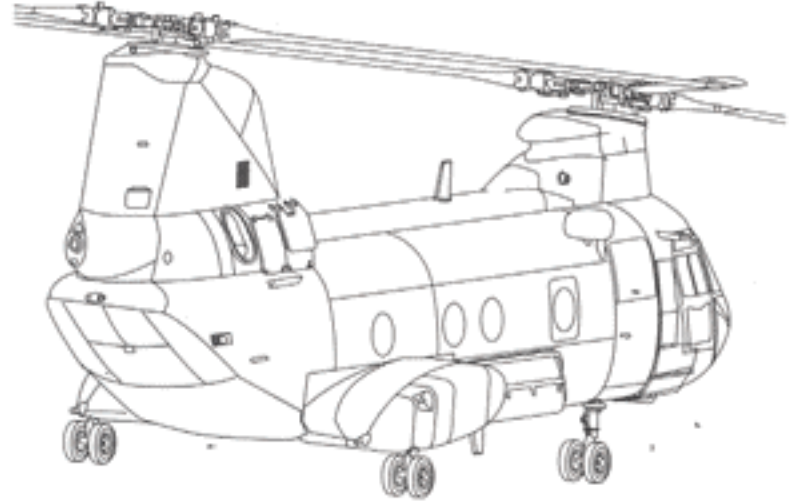
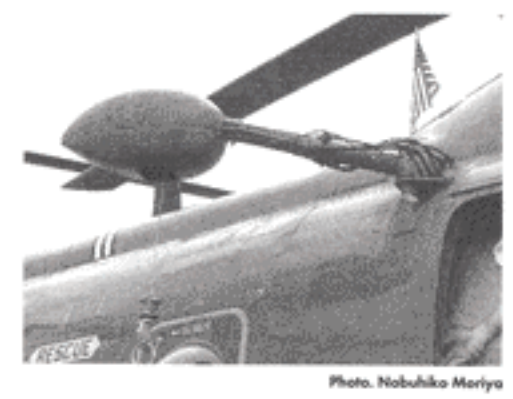
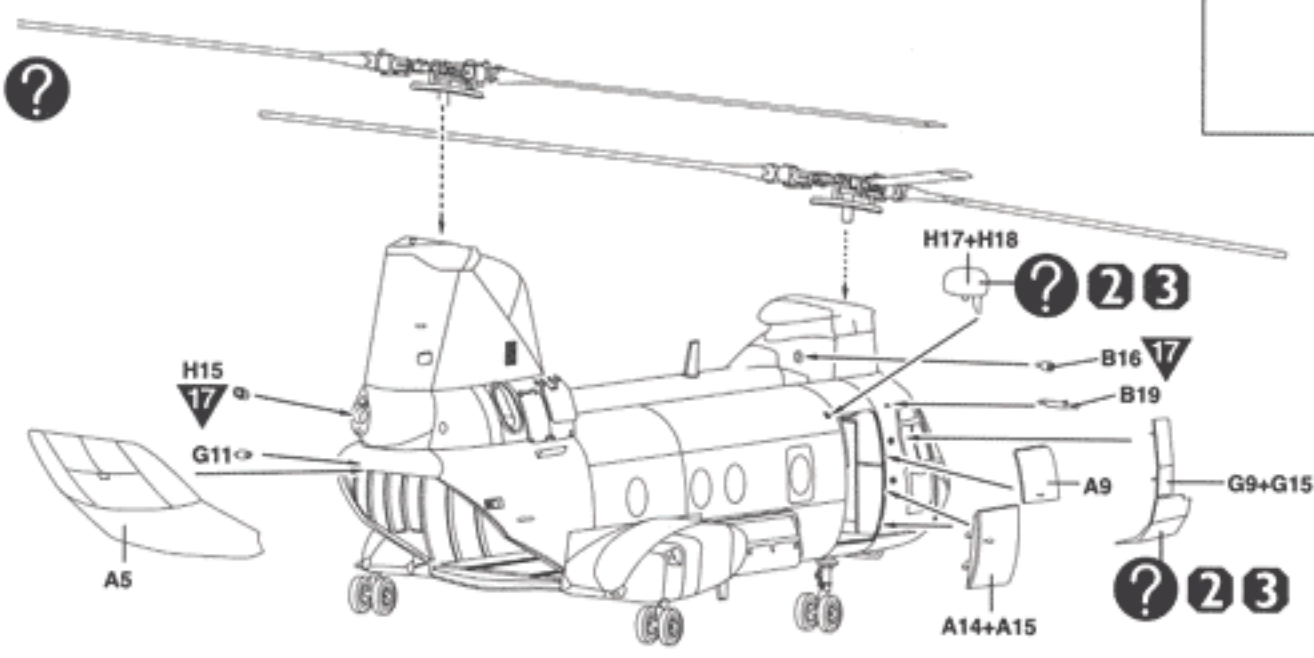


STEP 15

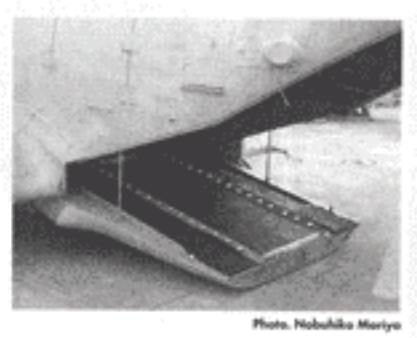
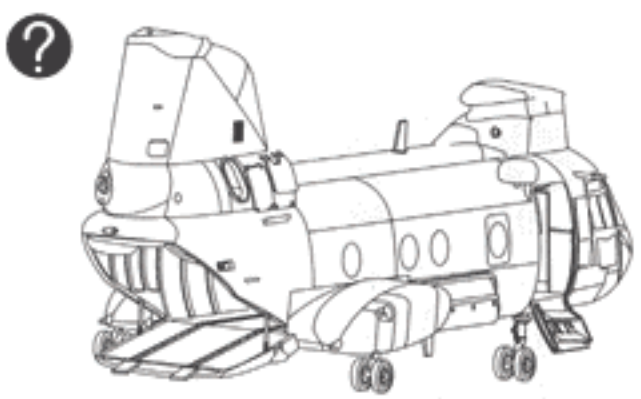
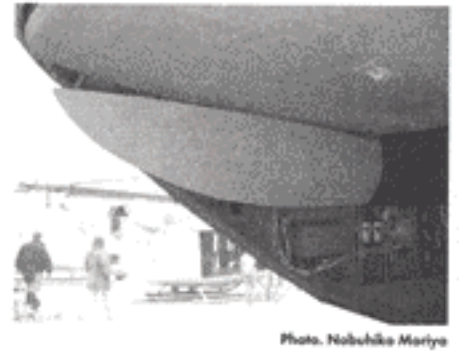
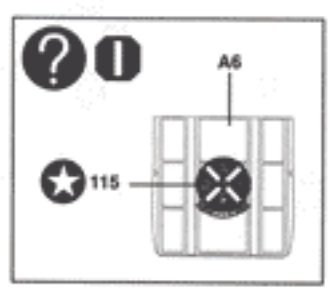
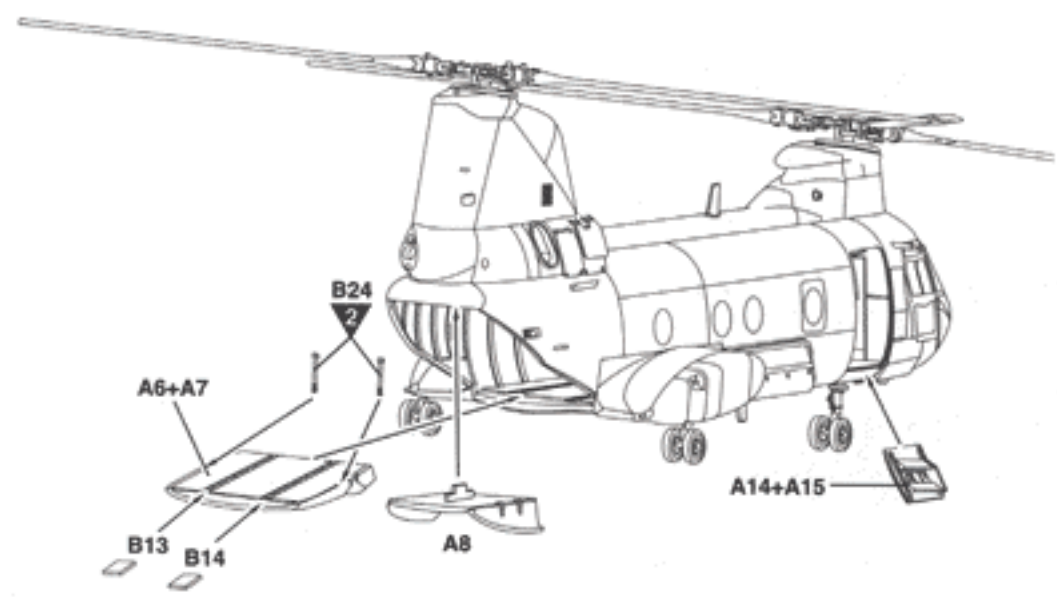


Interior Painting & Decal Placement
/ 색칠 및 전사지 붙이기 참조

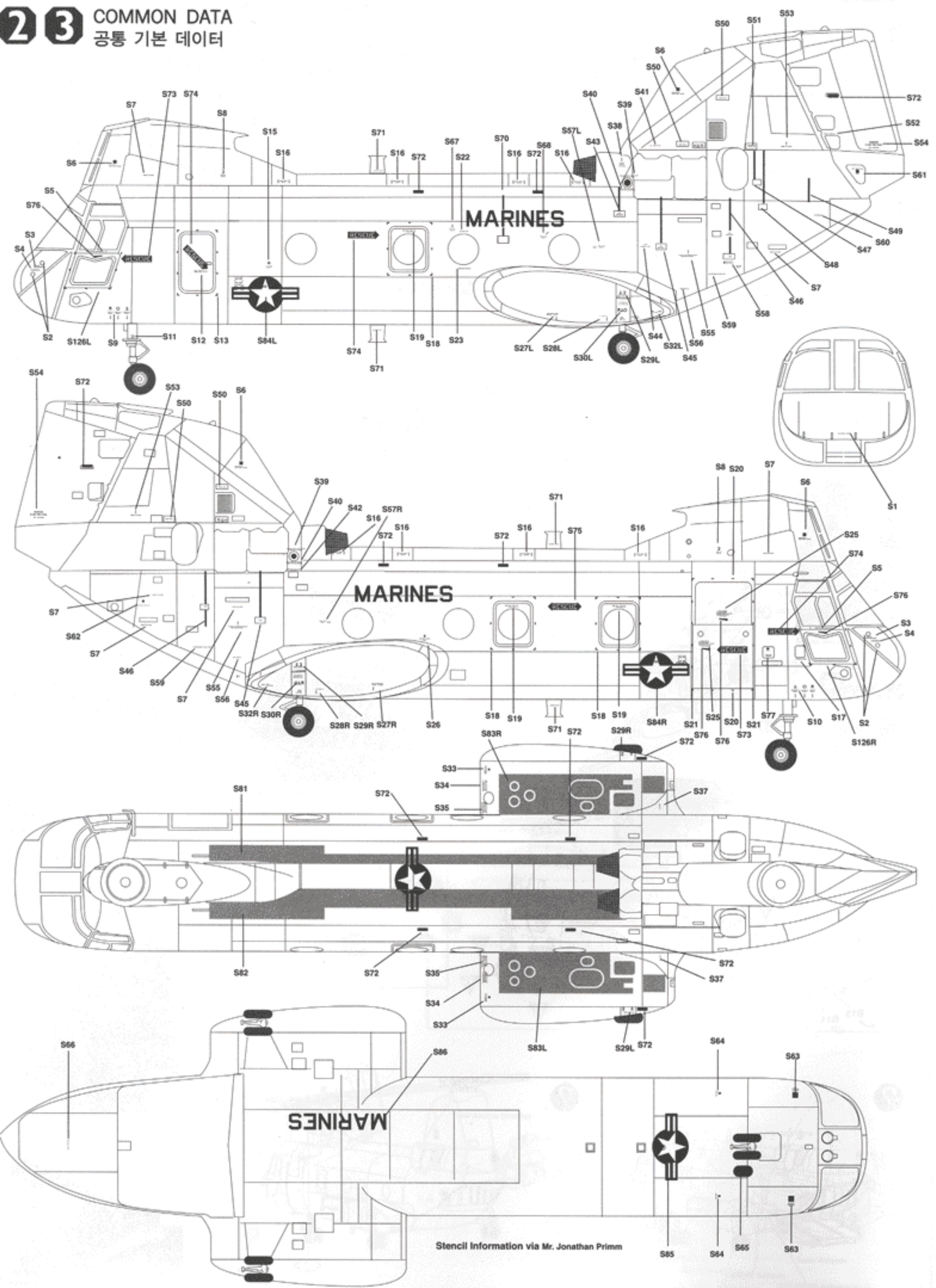
A6: 3, 10
 A14+A15: C3, C36+C38 or C40, C35+C37 or C39
 A9: C2
 1: 6
 2 3: 11



STEP 16



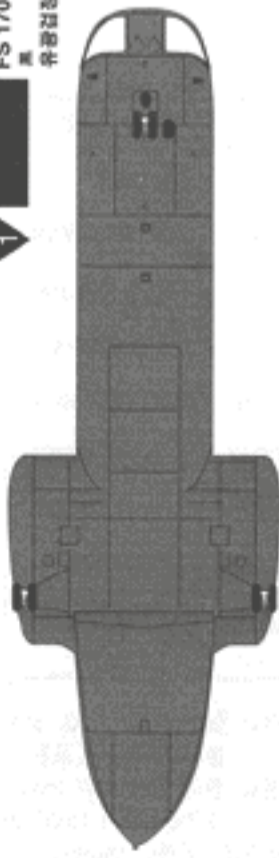
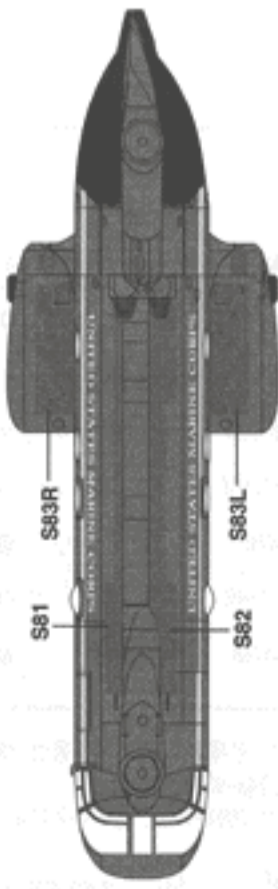
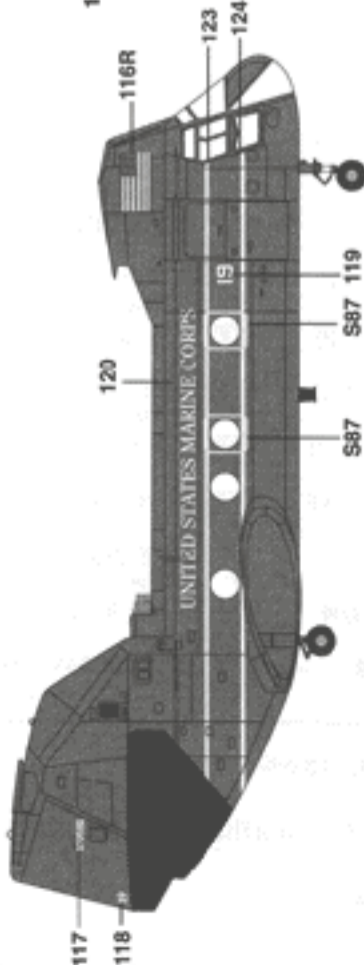
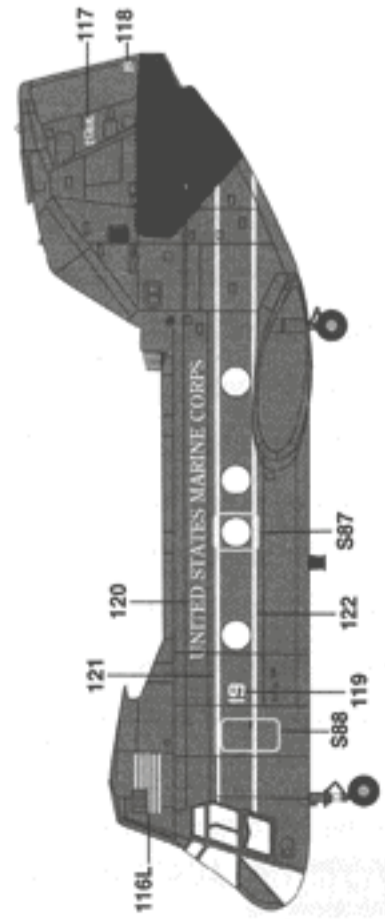
2 3 COMMON DATA 공통 기본 데이터



Stencil Information via Mr. Jonathan Primm

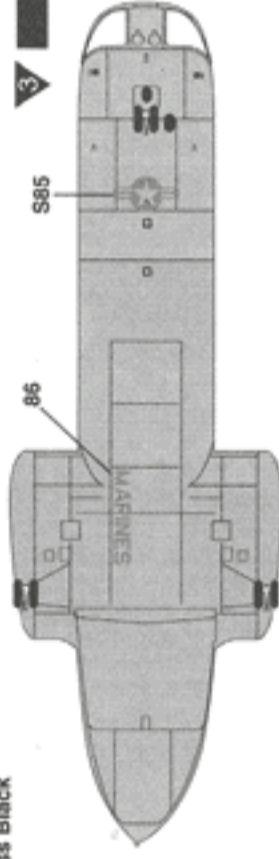
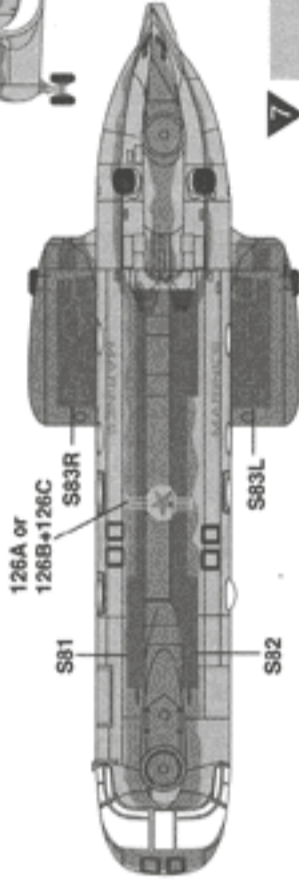
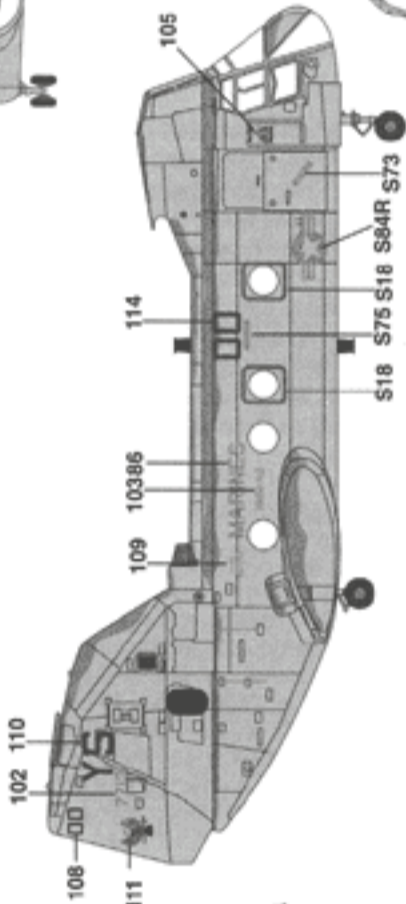
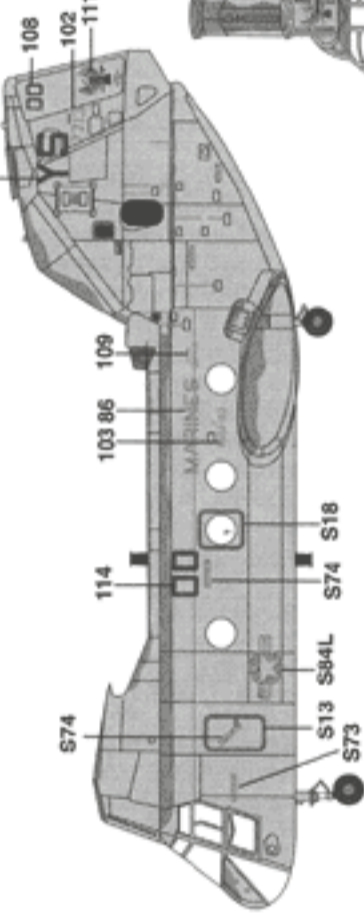
Painting & Decal placement 색칠 및 전사지 붙이기

1 Marine Helicopter Squadron-1 "Nighthawks"
CH-46E, Bu 157681, MCB, Quantico, VA.
海兵隊第1ヘリコプター飛行隊, ナイトホークス, パージニア州, クアンティコ基地
미해병대 제1헬기비행대 "나이트 호크스" 소속기, 버지니아 주 Quantico 비행기지



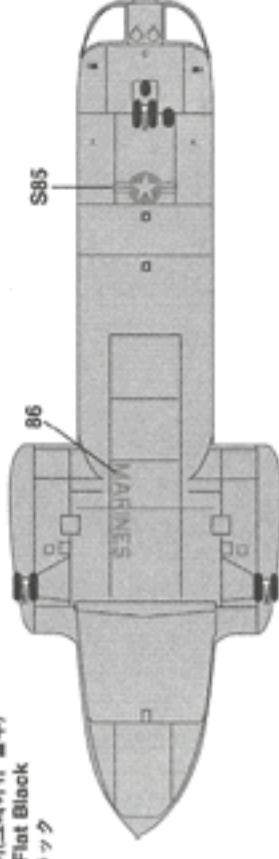
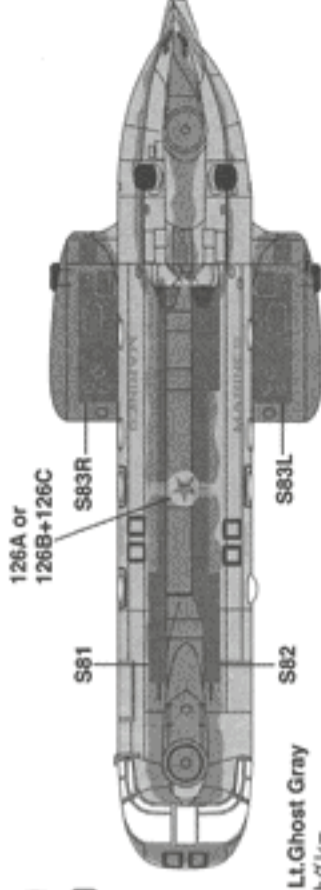
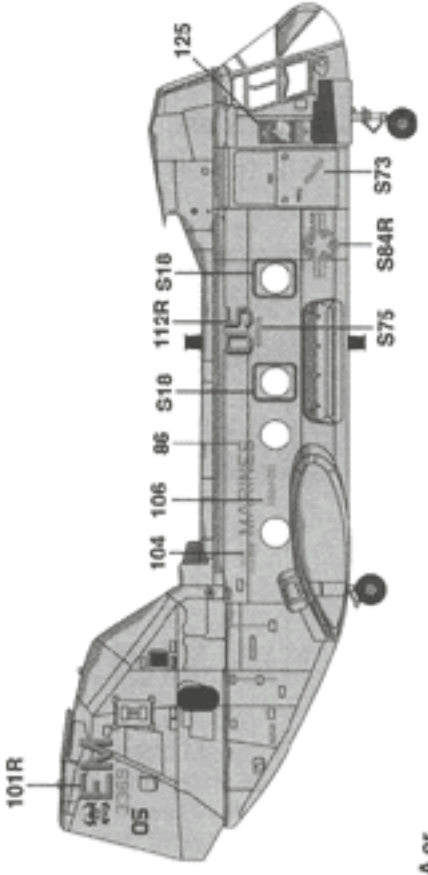
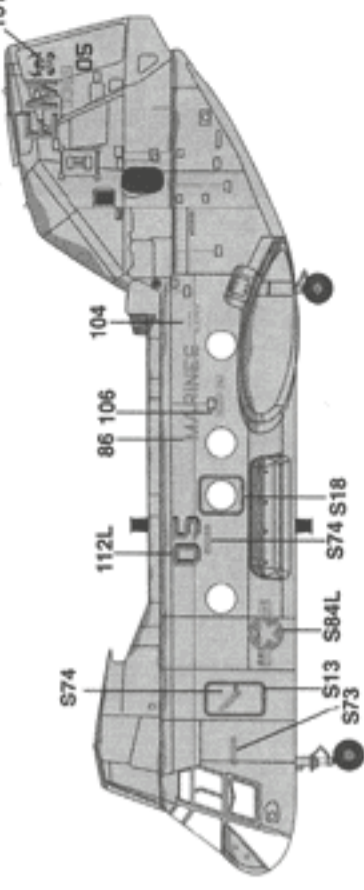
- 6** FS 14097 Field Green
フィールドグリーン
필드그린
유용점장색
- 1** FS 17038 Gross Black
粗
유용점장색

2 Marine Medium Helicopter Squadron 162, "Golden Eagles"
CH-46E, Bu 157713, MCAS, New River, NC.
海兵隊第162중대헬리콥터-1飛行隊, ゴールデンイーグルス, ノースカロライナ州, ニューリバー航空基地
미해병대 제162중대헬기비행대 "골든 이글스" 소속기, 노스캐롤라이나주 뉴리버 비행장기지



- 7** FS 36375 Lt. Ghost Gray
ライトゴーストグレー
라이트고스트그레이
- 20** FS 35237 Medium Gray
グレイッシュグレイ
그레이시그레이
- 3** FS 37038 Flat Black
フラットブラック
무용점장색

3 Marine Medium Helicopter Squadron 261 "Raging Bulls"
CH-46E, Bu 153369, MCAS, New River, NC.
海兵隊第261中隊ヘリコプター-1飛行隊, レイジングブルズ, ノースカロライナ州, ニューリバー航空基地
미해병대 제261중대헬기비행대 "레이징 불스" 소속기, 노스캐롤라이나주 뉴리버 비행장기지

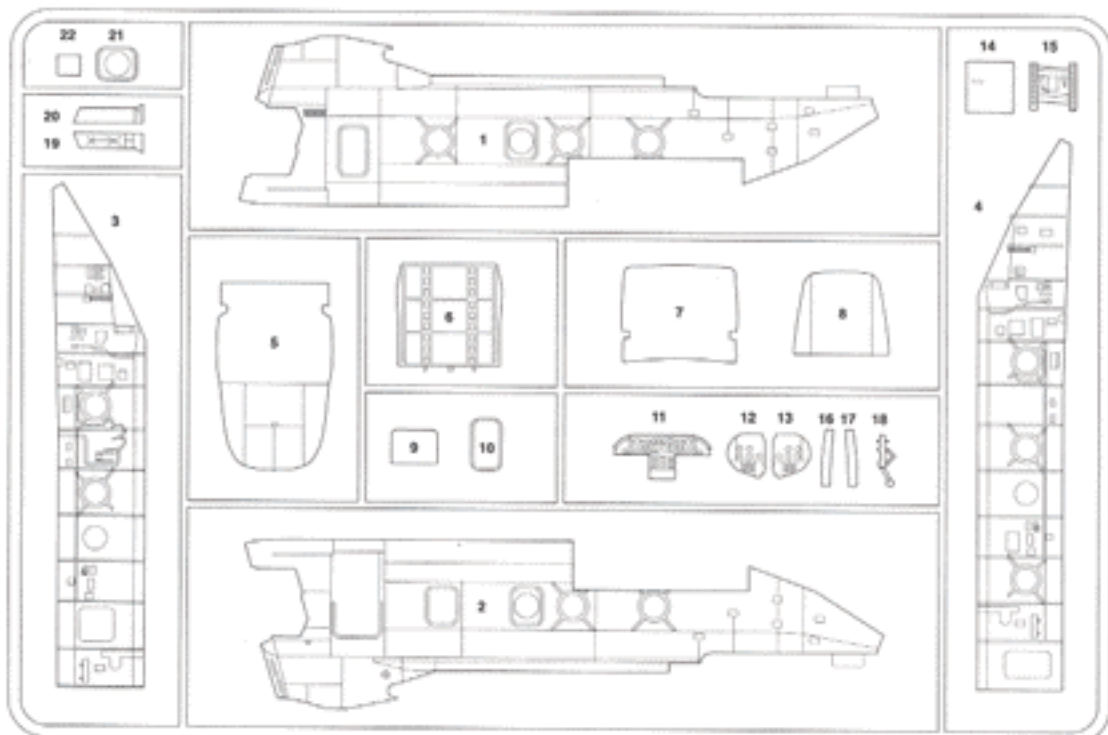


Sincere thanks to the following individuals :
Mr. Jonathan Primm, SSgt. Dave Roof USMC.
Mr. Nobuhiko Moriya, Mr. "KWAT" Takahashi, Mr. Shinzi Niihama.

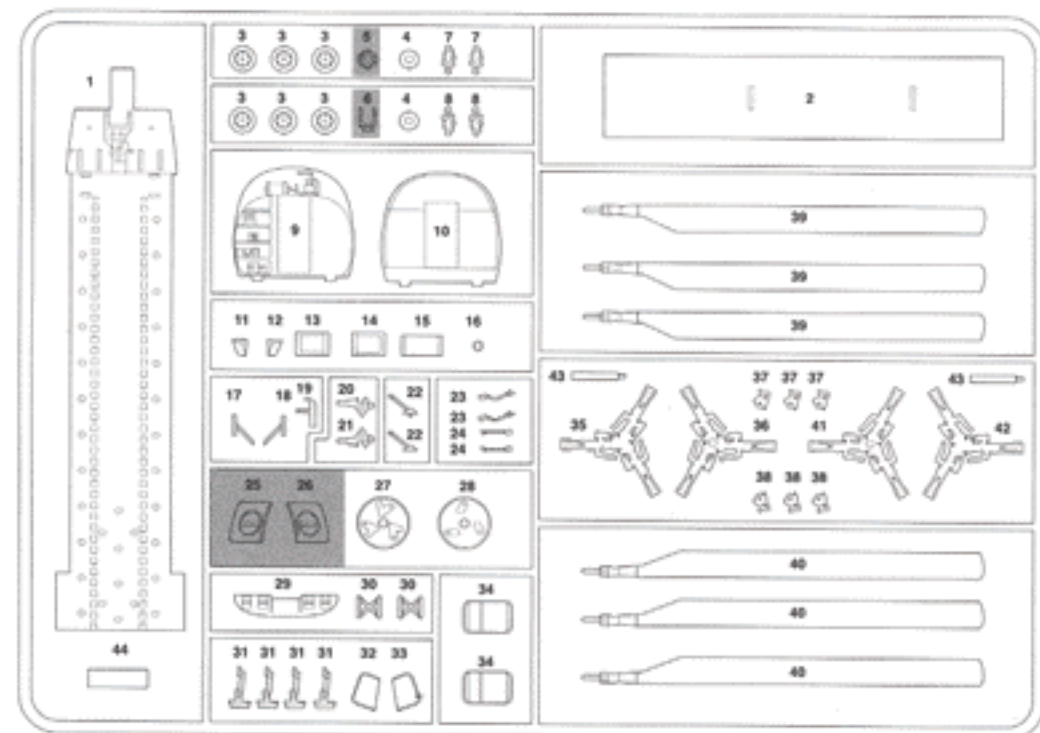
All Mold Supervised by Mr. Sherman Collings.

Paint Scheme and Exterior Marking is based on the manual "MIL-STD-2161(AS)" provided by SSgt. Dave Roof USMC.

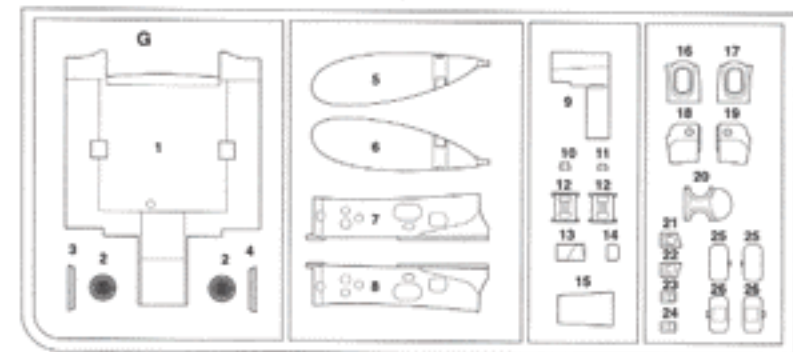
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B

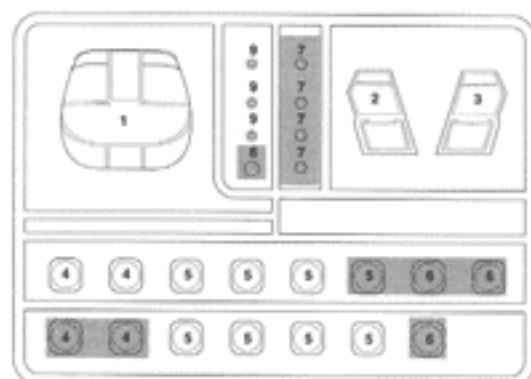


G

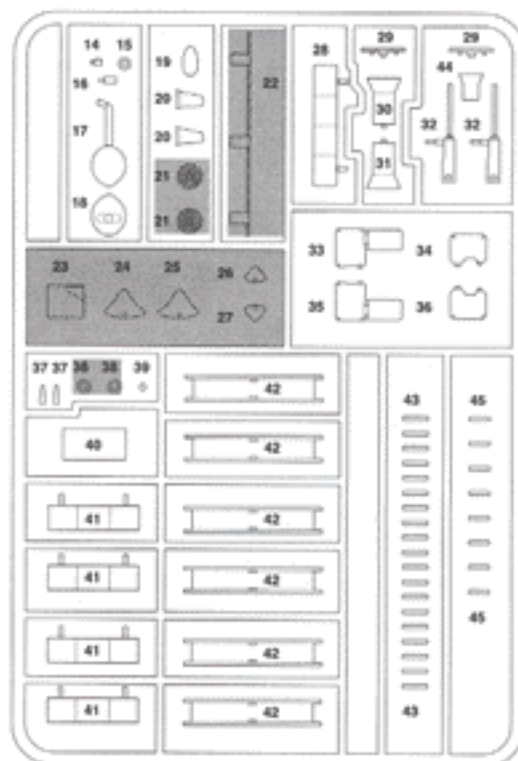


CH-46E Parts List

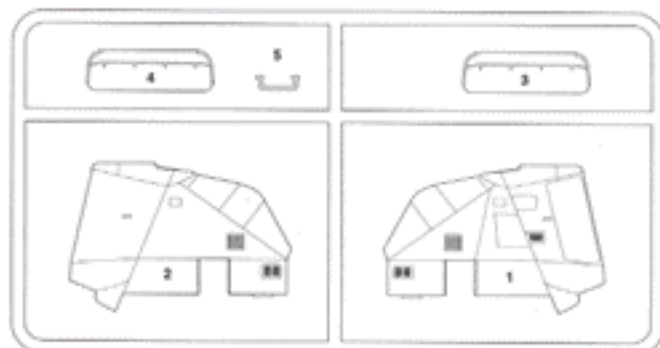
J



H



C



Parts are not for use
使用しません
部品の 甲種

1 GLOSS BLACK FS 17038	SCHWARZ	NOIR	黒	유광검정색	11 DARK GULL GRAY FS 36231	DUKEL MÖWENGRAU	GRIS MOUETTE FONCÉ	다크갈그레이	다크걸 그레이
2 SILVER FS 17178	SILBER	ARGENT	실버	은색	12 CLEAR RED	ROT, REIN	ROUGE CLAIR	클리어레드	클리어레드
3 FLAT BLACK FS 37038	MATTSCHWARZ	NOIR MAT	つや消しブラック	무광검정색	13 MEDIUM GREEN FS 34102	MITTEL GRÜN	VERT MOYEN	메디엄그린	메디엄 그린
4 FIELD REEN FS 14097	FELD GRÜN	VERT CHAMP	フィールドグリーン	유광 필드그린	14 STEEL	METALL-GRAU	GRIS ACIER	黒鉄色	건메탈
5 NEUTRAL GRAY FS 36270	NEUTRAL GRAU	GRIS NEUTRE	ニュートラルグレイ	뉴트럴그레이	15 WHITE FS 17925	WEIß	BLANC	FS 17925 ホワイト	흰색
6 FIELD GREEN FS 34097	MATT FELDGRÜN	VERT CHAMP MAT	フィールドグリーン	무광 필드그린	16 METALIC RED	METALLIC-ROT	ROUGE MÉTALLISÉ	메탈릭레드	메탈릭레드
7 LT.GHOST GRAY FS 36375	HELLES SCHATTEGRAU	GRIS FANTÔME FONCÉ	ライトゴーストグレイ	라이트고스트그레이	17 BURNT IRON	GRAU METALLIC	GRIS MÉTAL	焼鉄色	메탈릭그레이
8 INSIGNIA RED FS 11136	SIGNAL ROT	ROUGE INSIGNE	インシグニアレッド	빨강색	18 OLIVE DRAB FS 34087	OLIVE GRÜN	BRUN OLIVE	올리브드라브	국방색
9 SEMI GLOSS RED FS 21136	SATIN ROT	ROUGE SATINÉ	セミグロスレッド	반광 빨강색	19 CLEAR BLUE	BLAU, REIN	BLEU CLAIR	클리어블루	클리어블루
10 SATIN ALUMINIUM FINISH	ALUMINIUM	ALUMINIUM	アルミニウム	알루미늄	20 MEDIUM GRAY FS 35237	MITTEL GRAU	GRIS MOYEN	그레이ッシュ블루	메디엄그레이 (그레이쉬 블루)

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