



1:72 One Small Step for Man...

A50106 SCALE MODEL CONSTRUCTION KIT

In 1961 the then American President John F. Kennedy made a speech to Congress. In it he announced the intention of America, "Putting a man on Moon... before the end of the decade". This changed what had gone before in the American Space Program as most plans had been directed towards launching a space station into Earth orbit — only then would you go to the Moon and planets. But the timescale the President indicated, less than 10 years, left no time to build a space station, instead another way had to be found. So the American space agency, NASA, adopted a method proposed by the British Interplanetary Society well over a decade earlier — that of Lunar Orbit Rendezvous. In this method you take your whole spacecraft to the Moon, leave one section in Lunar orbit, land a second section on the surface, return, dock to the orbiting craft and return to Earth. This led to Project Apollo, consisting of three specific spacecraft modules. The conical Command Module carried the three crew for most of the mission. This is attached to the cylindrical Service Module that contained power generation, the main air supply and the rocket engine for insertion into Lunar orbit and return to Earth.

The third Module was specifically designed for the Lunar landing and the Grumman Aircraft Engineering Corporation was awarded the task of building this craft, named the Lunar Module, or LM. It was totally functional with no streamlining — this not being required as the Moon has virtually no atmosphere. (It was originally called the Lunar Excursion Module — LEM — though this terminology was soon dropped by NASA as apparently it was felt it could have sounded too much like 'a vacation'. However the pronunciation of "lem" tended to remain.)

The LM consisted of two stages, a lower Descent Stage that contained the rocket motor and fuel to allow the Moon landing, and also the majority of equipment and experiments for use on the Lunar surface. It also acted as a launch pad for the upper Ascent Stage that carried the two astronauts that performed the actual landing, and which returned them to Lunar orbit to dock with the Command Service Module.

The Lunar Module was almost 7 metres / 23 feet high and 9.5m / 31 ft, diagonally across the landing gear. The four landing pads were each .95 m / 37 inches in diameter. The weight of the Apollo 11 LM was 15,000 kgs / 33,200 lbs.

15 Lunar Modules were planned and intended to be flown, although only 10 actual did. LM-1 flew on board a Saturn 1B as an unmanned general test, (the only one that flew on anything but a Saturn V); LM-3, Spider, flew as part of Apollo 9 as the test in Earth orbit and LM-4, Snoopy, on Apollo 10 as the test in Lunar orbit.

LM-5 was Eagle, the Apollo 11 Lunar Module; LM-6, Intrepid, Apollo 12; LM-7, Aquarius, Apollo 13; LM-8, Antares, Apollo 14; LM-10 Falcon, Apollo 15; LM-11, Orion Apollo 16 and LM-12 Challenger, Apollo 17.

LM-2 was not flown and is on display at the Smithsonian National Air and Space Museum, Washington DC.

LM-9 was not flown and is on display at the Kennedy Space Center, Florida.

LM-13 was not flown and its basic structure, reconstructed, is on display at The Cradle of Aviation Museum, Long Island, New York.

LM-14 and LM-15 were never fully completed, although elements of LM-14 are supposedly included in the LM reconstruction at the Franklin Institute, Philadelphia, Pennsylvania.

Other full-size models of the LM are on display in museums around the world, including in the Science Museum in London.

WARNING

Not suitable for children under 8 years. For use under adult supervision. Read the instructions before use, follow them and keep them for reference.

WAARSCHUWING

Niet geschikt voor kinderen jonger dan 8 jaar. Gebruiken onder toezicht van volwassenen. Lees eerst de gebruiksaanwijzing en volg deze op. Behoud deze om later te kunnen raadplegen.

ATTENTION

Ne convient pas aux enfants de moins de 8 ans. À utiliser sous la surveillance d'un Adulte. Lire les instructions avant utilisation, s'y conformer et les garder comme référence.

OSTRZEŻENIE

Nie nadaje się dla dzieci w wieku poniżej 8 lat. Do użytkowania pod nadzorem osoby dorosłej. Przeczytaj instrukcję przed użyciem, postępuj zgodnie z ich zaleceniami i zachowaj jako odniesienie.

ΠΡΟΕΙΔΟΠΟΙΗΣΗ

Δεν είναι κατάλληλο για παιδιά κάτω των οκτώ ετών. Να χρησιμοποιείται μόνο υπό την επίβλεψη ενήλικου Διαβάστε αυτές τις οδηγίες πριν από τη χρήση, ακολουθήστε τις και κρατήστε τις για μελλοντική χρήση.

ACHTUNG

Nicht geeignet für Kinder unter ... Jahren 8. Benutzung unter Aufsicht von Erwachsenen. Lies die Anweisungen vor Gebrauch, befolge sie und halte sie nachschlagebereit.

ADVERSEL

Ikke egnet for barn under 8 år. Skal brukes under tilsyn av en voksen. Les brugsanvisningene før bruk, følg dem og hold dem på hånden.

VAROITUS

Ei alle 8 -vuotiaalle lapsille. Lelua saa käyttää vain aikuisen valvonnassa. Lue käyttöohjeet ennen käyttöö ja noudata niitä. Säilytä ohjeet vastaisuuden varalle.

ADVERTENCIA

No conviene para niños menores de 8 años. Utilícese bajo la vigilancia de un adulto. Leer las instrucciones antes de la utilización, seguirías y conservarlas como referencia.

AVVERTENZA

Non adatto a bambini di età inferiore a 8 anni. Da usare sotto la sorveglianza di un adulto. Leggere le istruzioni prima dell'uso, attenersi ad esse e conservarle per riferimento futuro.

ADVARSEL

Ikke egnet for børn under 8 år. Skal anvendes under opsyn af en voksen. Læs brugsanvisningen før brug, følg den og gem den til senere brug.

VARNING

Inte lämplig för barn under 8 år. Ska användas under tillsyn av vuxen. Läs anvisningarna före användningen, följ dem och spara dem för framtida bruk.

ATENÇÃO

Contra-indicado para crianças com menos de 8 anos. A utilizar sob a vigilância de adultos. Ler as instruções antes de utilizar e conservá-las como informação.

UPOZORNĚNÍ

Nevhodné pro děti do 8 let. Používat pouze pod dohledem dospělých osob. Před použitím si přečtěte návod, dodržujte jej a uschovejte jej pro pozdější potřebu.

FOR BEST RESULTS:

Surfaces to be painted should be clean — before parts are removed from the sprue, wash in warm, soapy water, rinse and dry thoroughly. Stir paints thoroughly before use.

PLEASE NOTE:

Additional paints may sometimes be required to complete models to a higher specification. Some parts in the kit may not be required to build the model specified.

HORNBY HOBBIES



Assembly

The Lunar Module, two astronauts and equipment are moulded in polystyrene and can be glued with Humbrol Polystyrene Cement – tube or liquid.

The Astronaut Set, figures and equipment, is moulded in polyethylene and most components are a push or snap fit.

The Airfix kit of the Apollo Lunar Module, coupled with the Astronauts Set, allows the construction of many of the elements of the six successful Moon Landings, Apollo 11, 12, 14, 15, 16, and 17. The S-Band Antenna, (parts 85, 86 and 87), was used for Apollo 12 onwards, while the Lunar Roving Vehicle, two of which are included with the Astronauts Set, was carried by Apollo 15, 16 and 17. Several of the other Astronauts in the Set are performing appropriate tasks from carrying equipment, operating cameras and holding instruments to collect rocks or probe the Lunar surface. Other pieces of equipment such as the one and twoperson 'hoppers' were designs instigated by NASA, though have not flown to date.

Painting

Early full size mock-ups of the Lunar Module are described as 'boiler plates', as they were made from similar sheet metal. These were usually just painted black and white, leading to early illustrations of the Lunar Module being wrong for an actual Lunar landing vehicle. In reality the functional LMs were covered in a variety of thin sheet metals and foils. These acted both as protection from micrometeorites and as temperature control, and produced colours ranging from silver and aluminium to gold and black. The gold colouring is a thin foil and is provided here as actual foil, giving you the choice of either using the foil, or painting the appropriate areas. To be even more accurate, the black areas of the Descent Stage are also foil, so these areas could be covered, and then over-painted matt black.

The gold foil can be fixed in position with a glue stick, or Humbrol Clearfix will also work.

Decals

The UNITED STATES and the American flag positions on the Lunar Module are shown in the drawings. The small Stars and Stripes are for the astronauts, each of which has two. One in on the left-hand shoulder and one on the upper section of the PLSS – Portable Life Support System, or backpack.

Further Research

Each Lunar Module was subtly different from the others and for more information check the Web Sites www.apollosaturn.com and www.myspacemuseum.com

www.nasa.gov is the starting point to NASA's very comprehensive Web Site.

Also highly recommended is Michael Mackowski's Space In Miniature series of books, especially compiled for the model maker. SIM 7 is specifically on the Apollo Lunar Module and gives accurate details on each of the frown LMs. Check www.spaceinminiature.com.

For the main Internet space modelling discussion group - groups yahoo.com/group/space-modelers/

ASSEMBLY INSTRUCTIONS

EN Study drawings and practise assembly before cementing parts together. Carefully scrape paint from cementing surfaces. All parts are numbered. Paint small parts before assembly. To apply decals cut sheet as required, dip in warm water for a few seconds, slide off backing into position shown. Use in conjunction with box artwork. Not appropriate for children under 36 months of age, due to the presence of small detachable parts.

FR Étudier attentivement les dessins et simuler l'assemblage avant de coller les pièces. Gratter soigneusement toute peinture sur les surfaces à coller. Toutes les pièces sont numérotées. Peindre les petites pièces avant l'assemblage. Pour coller les décalcomanies, découper le motif, le plonger quelques secondes dans de l'eau chaude puis le poser à l'endroit indiqué en décollant le support papier. Utiliser conjointement avec les illustrations sur la boîte. Ne convient pas aux enfants de moins de 36 mois – présence de petits éléments détachables.

DE Vor dem Zusammenkleben der Teile die Zeichnungen sorgfältig ansehen und die zu verklebenden Teile zur Vermeidung möglicher Fehler versuchsweise zusammenfügen. Dann an den Klebeflächen vorhandene Farbbeschichtung vor dem Zusammenkleben vorsichtig abkratzen. Alle Bestandteile sind mit Nummern versehen. Kleine Teile vor dem Zusammenbau bemalen. Abziehbilder wie gewünscht ausschneiden. Vor dem Anbringen einige Sekunden in warmes Wasser tauchen und dann vom Trägerpapier in ihre vorgesehene Position schieben. Dabei die Abbildungen auf der Schachtel beachten. Nicht für Kinder unter 36 Monaten geeignet, da abnehmbare bzw. lose angebrachte Kleinteile enthalten sind.

ES Estudiar los dibujos y practicar el montaje antes de pegar las piezas. Raspar cuidadosamente la pintura en las superficies de contacto antes de pegar las piezas. Todas las piezas están numeradas. Es conveniente pintar las piezas pequeñas antes de su montaje. Para aplicar las decalcomanías, cortarlas de la hoja sumergirlas en agua tibia durante unos segundos y despegarlas de la posición indicada. Utilizar en conjunción con la ilustración de la caja. No es adecuado para niños menores de 36 meses, ya que contiene piezas pequeñas que podrían soltarse.

SV Studera bilderna noggrant och sätt in de delarna innan du limmar ihop dem. Skrapa försiktigt bort färg från limytor. Alla delarna är numrerade. Mål små delarna före ihop-sättningen. Sätt fast dekallerna genom att klippa av de, doppa i varmt vatten några sekunder och låta baksidan glida på plats som bilden visar. Använd enligt bildanvisningarna på kartongen. Rekommenderas ej för barn under 3 år. Innehåller löstagnbara smådelar.

NL Tekeningen bestuderen en delen in elkaar zetten alvorens deze te lijmen. Lak van orfchtig van lijmlakken afschrapen. Alle delen zijn genummerd. Kleine delen vóór de montage verven. Voor aanbrengen van stickers, evenwiste stickers uit het vel knippen, een paar seconden in warm water, doppen en dan van het schutblad af op afgebeelde plaats knippen. Hierbij afbeelding op doos raadplegen. Niet geschikt voor kinderen onder 3 jaar, omdat kleine deeltjes gemakkelijk kunnen losraken.

PL Przed przystąpieniem do sklejania przestudiuj uważnie rysunki i oznaczenia części. Ciepło zeskrob z klejących powierzchni farbę. Wszystkie części są ponumerowane. Drobnie części pomaluj przed ich złożeniem. Celem prezentowania kalkomanii wytnij je z arkusza, zanurz na kilka sekund w letniej wodzie i zsuj z powłoki na wyznaczane miejsce. Używaj w połączeniu z wzorami na opakowaniu. Nie nadaje się dla dzieci poniżej 3 lat.

IT Studiare i disegni ed esercitarsi a montare i vari pezzi prima di fissarli con la colla. Raschiare con cura le tracce di vernice dalle superfici da incollare. Tutti i pezzi sono numerati. Applicare i pezzi di piccole dimensioni prima di montarli. Per applicare le decalcomanie, ritagliare il foglio nel modo richiesto, immergere in acqua tiepida per alcuni secondi, quindi staccare la decalcomania dalla carta di supporto e posizionarla nel punto desiderato. Usare le decalcomanie come indicato nell'illustrazione riportata sulla confezione. Non adatto a bambini di età inferiore a 36 mesi per la presenza di componenti di piccole dimensioni che potrebbero staccarsi.

PT Estudar atentamente os desenhos e experimentar a montagem. Raspar cuidadosamente as superfícies de modo a eliminar pintura antes de colar. Todas as peças estão numeradas. Pintar as pequenas peças antes de colar. Para aplicar as decalcomanias, cortar as folhas e mergulhar em água morna por alguns segundos, depois deslizar e aplicar no respectivo lugar, como indicado nas ilustrações na caixa. Não convém a uma criança de menos de 36 meses devido à presença de pequenos elementos destacáveis.

EL Μελετήστε προσεκτικά τα σχέδια και συναρμολογήστε για πρώτη φορά τα κομμάτια χωρίς να τα συγκollήσετε. Αφαιρέστε επιμελώς την πλαστική βαφή από τις επιφάνειες τις οποίες θα συγκollήσετε. Όλα τα κομμάτια είναι αριθμημένα. Χρωματίστε τα μικρά κομμάτια πριν από τη συναρμολόγηση. Για να κολλήσετε τις χαλκομανίες, κόψτε γύρω από το σχέδιο όπως απαιτείται, βυθίστε το μερικά δευτερόλεπτα σε χλιαρό νερό και μετά τοποθετήστε το στη θέση που υποδεικνύεται, αφαιρώντας την εμβρόντινη που το καλύπτει. Λάβετε υπόψη σας ταυτόχρονα την εικονογράφηση του κουτιού. Ακατάλληλο για παιδιά ηλικίας κάτω των 36 μηνών λόγω ύπαρξης μικρών κομματιών που αποσπώνται.

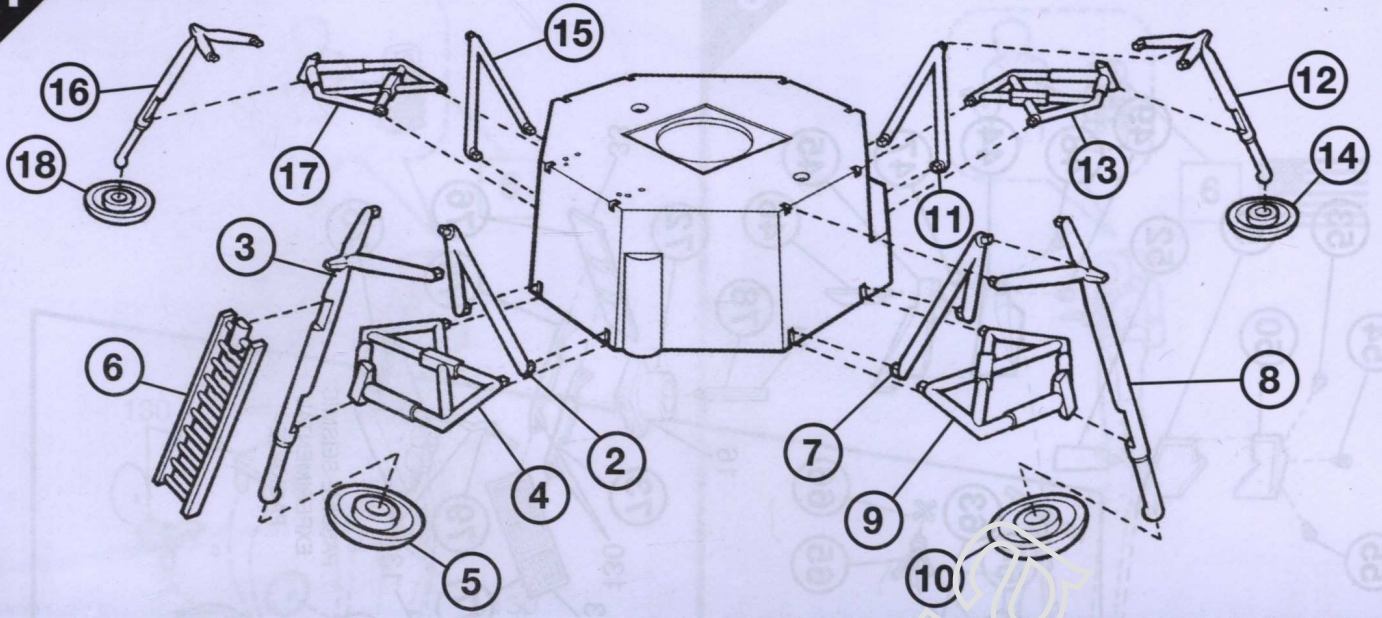
FI Tutustu piirroksiin ja harjoittele kokoamista, ennen kuin liimaat osat yhteen. Raaputa maali varovasti pois liimattavilta pinnolta. Kaikki osat on numeroitu. Maalaa pienet osat ennen kokoamista. Siirtokuvien kiinnittämisksi leikkaa ne arkista tarpeen mukaan. Kasta kuva lämpimään veteen muutama sekunnin ajaksi, anna takapuolen liukua kullekin osoitettuun kohtaan. Käytetään yhdessä laatikon kuvituksen kanssa. Ei suositella alle kolmivuotiaille lapsille. Paljon irrotettavaa pikkuosia.

DA Studér tegningerne nøje og forsøg at sætte delene sammen, inden de klæbes sammen. Skrab forsigtigt malingen af de overflader, der skal klæbes sammen. Alle delene er nummererede. Små dele skal males, før de monteres. Overføringsbillederne påføres ved at klippe dem ud af arket, som påkrævet, dykke dem i varmt vand i nogle få sekunder, hvorefter undtaget glides af i de viste positioner. Påføres ifølge illustrationerne på æsken. Ikke egnet til børn under 3 år på grund af tilstedeværelse af små afstigele dele.

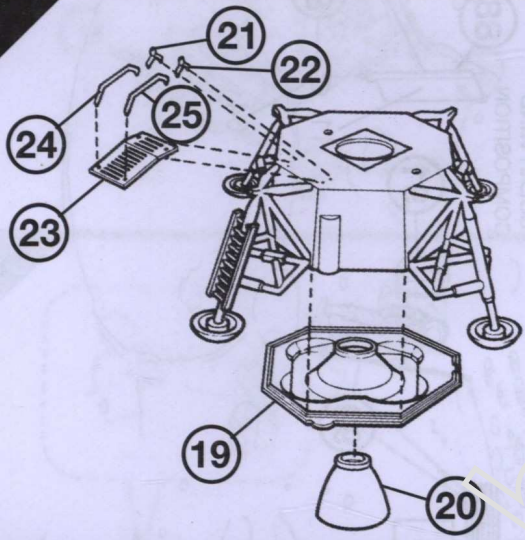
ASSEMBLY ICON INSTRUCTIONS

<p>Assembly phase Phase de montage Montagephase Fase de montaje Monteringsfasen Fase di montaggio Montagefase Fase de montagem Monteringsfase Kokoamisvaihe Faza składowania Φάση συναρμολόγησης</p>	<p>Cement Coller Kleben Pegar Limma Incollare Lijmen Colar Klæbes Liimaa Kleić Συγκollήστε</p>	<p>Do not cement together No pas coller Nicht kleben No pegar Limma inte Non incollare Niet lijmen Não colar Skal ikke klæbes Älä liimaa Nie kleić Μη συγκollήστε</p>	<p>Symmetrical assembly Montage symétrique Symmetrischer Aufbau Montaje simétrico Symmetrisk monterng Montaggio simmetrico Symmetrische montage Montagem simétrica Symmetrisk samling Symmetrinen asentaminen Montaż symetryczny Συμμετρική Συναρμολόγηση</p>	<p>Alternative part(s) provided Autre(s) pièce(s) fournie(s) Ersatzteil(e) mitgeliefert Se incluye(n) pieza(s) alternativa(s) Alternativ(a) del(ar) ingår Uno o più componenti alternativi forniti Alternatieve onderdelen meegeleverd Peça(s) alternativa(s) fornecida(s) Alternativ(e) del(e) medfølger Vaihtoehtoiset osat pakkauskassa Dostępne części zamiennie Παρέχονται εναλλακτικά κομμάτια</p>	<p>Repeat this operation Répéter l'opération Vorgang wiederholen Repitir la operación Upprepa åtgärden Ripetere l'operazione De verichting herhalen Repitir a operação Manevren gentages Toista toimenpite Powtórzyc operację Επανάλάβετε τη διαδικασία</p>	
<p>Decals Déalcomanias Abziehbild Calcomanias Dekaler Decalcomanie Stickers Decalcomania Billedoverføring Siirtokuvat Kalkomanie Χαλκομανίες</p>	<p>Crystal part Pièce cristal Kristallteil Pieza de cristal Kristalldel Pezzo cristallo Kristallen onderdeel Peça de cristal Kristalstykke Kristalliosa Część kryształowa Κομμάτι κρυστάλλου</p>	<p>Weight Lester Beschweren Lastrar Belasta Applicare un peso Verzwaren Lastrar Påfør vægt Aseta vastapaino Obciążyc balastem Επιθέστε βάρος</p>	<p>Remove by filing Enlever avec une lime Abfeilen Eliminar con lima Ta bort genom att fila Rimuovere con la lima Verwijderen door afvlijen Remova limando Fjern ved at file væk Poista villaamalla Usunąć przy użyciu pilnika Αφαιρέστε λιμόντας με λιμά</p>	<p>Drill or pierce Percer Durchbohren Perforar Borra Trapanare o forare Boren of doorboren Furar Gennembor Poraat tai puhkaise Wywiercić lub przedziurawić Τρυπήστε</p>	<p>Cut Découper Schneiden Cortar Skär Tagliare Snijden Cortar Skær Leikkaa Przeciąć Κόψτε</p>	<p>Humbrol paint number No peinture Humbrol Humbrol-Farbnummer No de pintura Humbrol Humbrol färg nummer No vernice Humbrol Humbrol verfunummer No de pintura Humbrol Humbrol malingsnummer Humbrol-maalain numero Nr farby Humbrol Νούμερο χρώματος Humbrol</p>

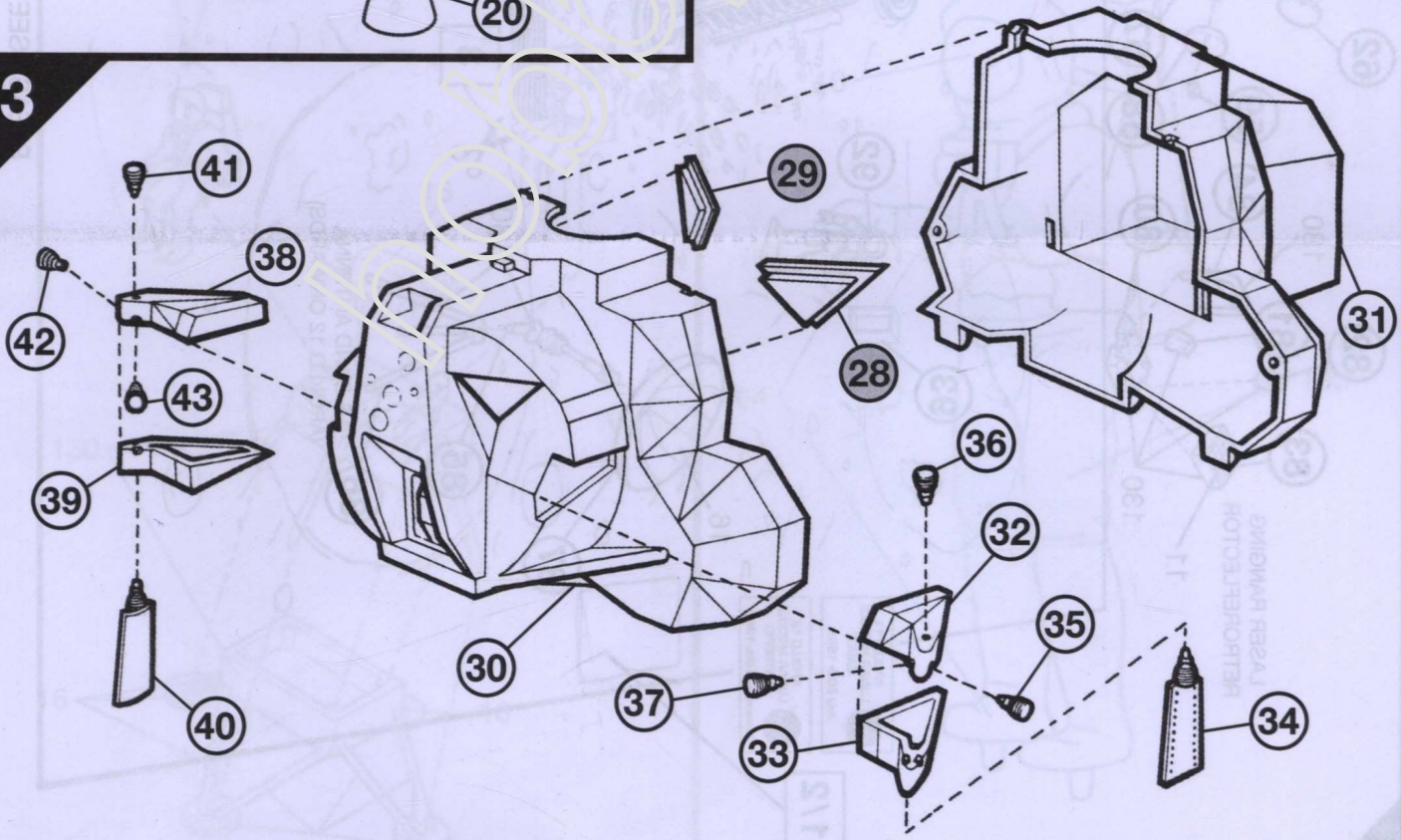
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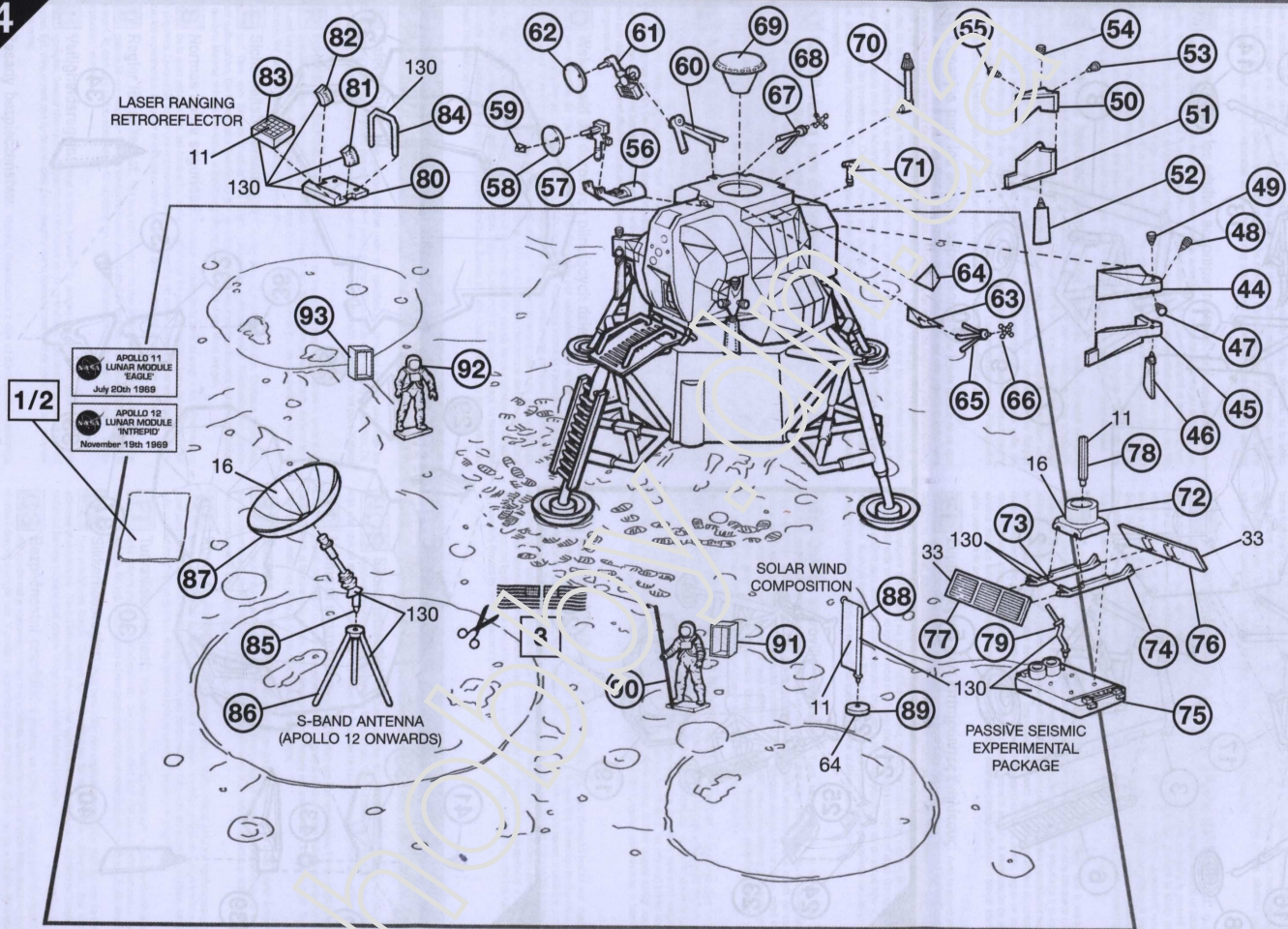


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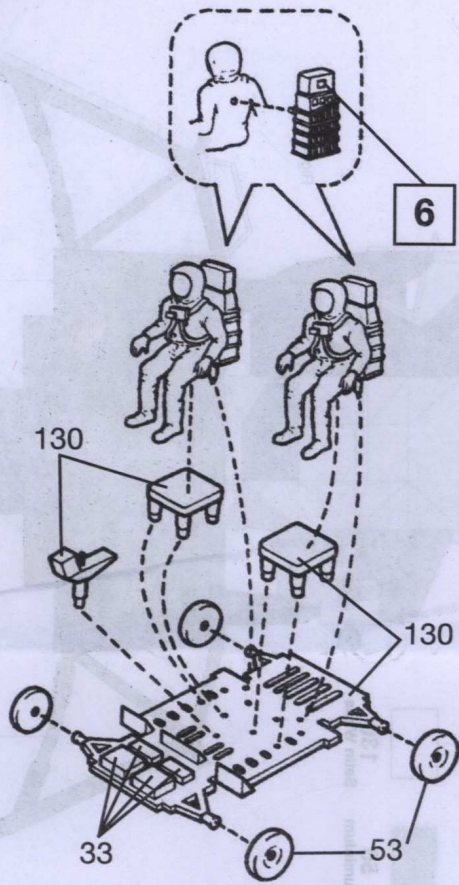
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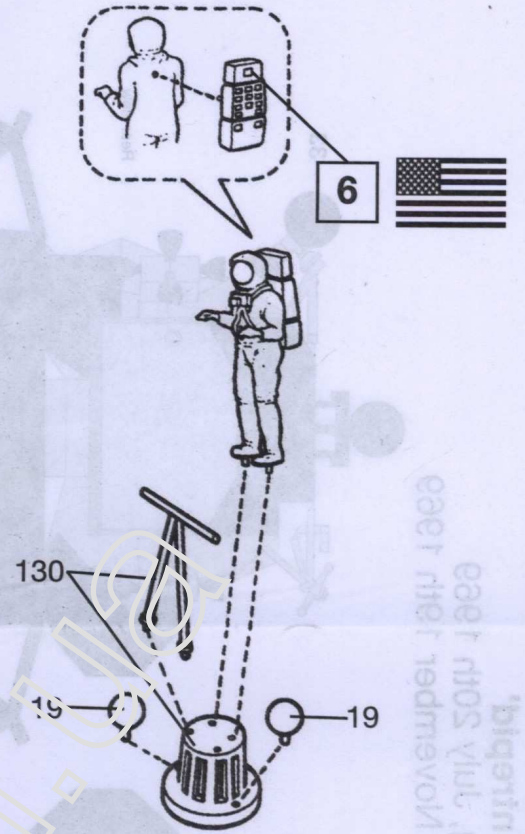


PLEASE SEE BOX FOR FULL PAINTING SCHEME

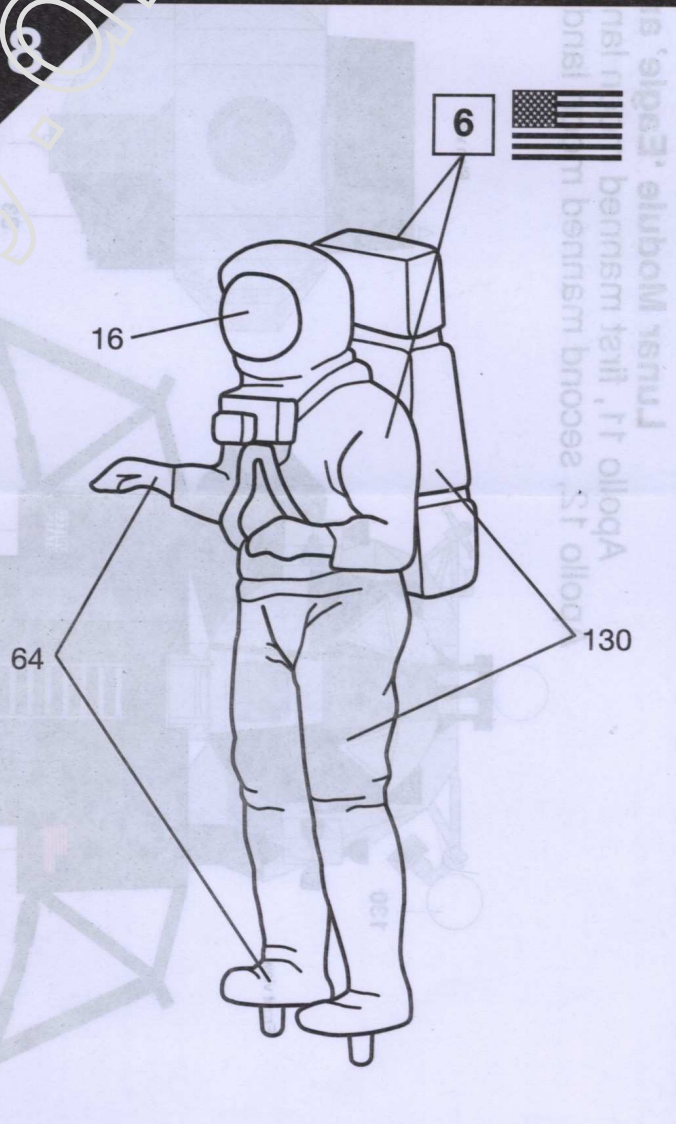
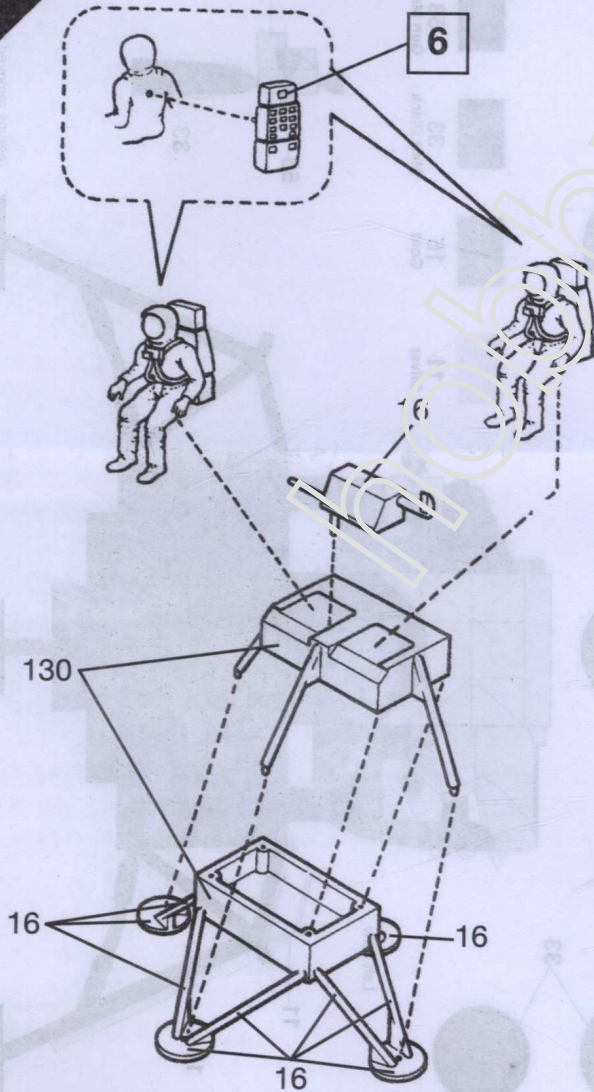
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7



Lunar Module 'Eagle' and 'Intrepid'

Apollo 11, first manned moon landing, July 20th 1969
 Apollo 12, second manned moon landing, November 19th 1969

