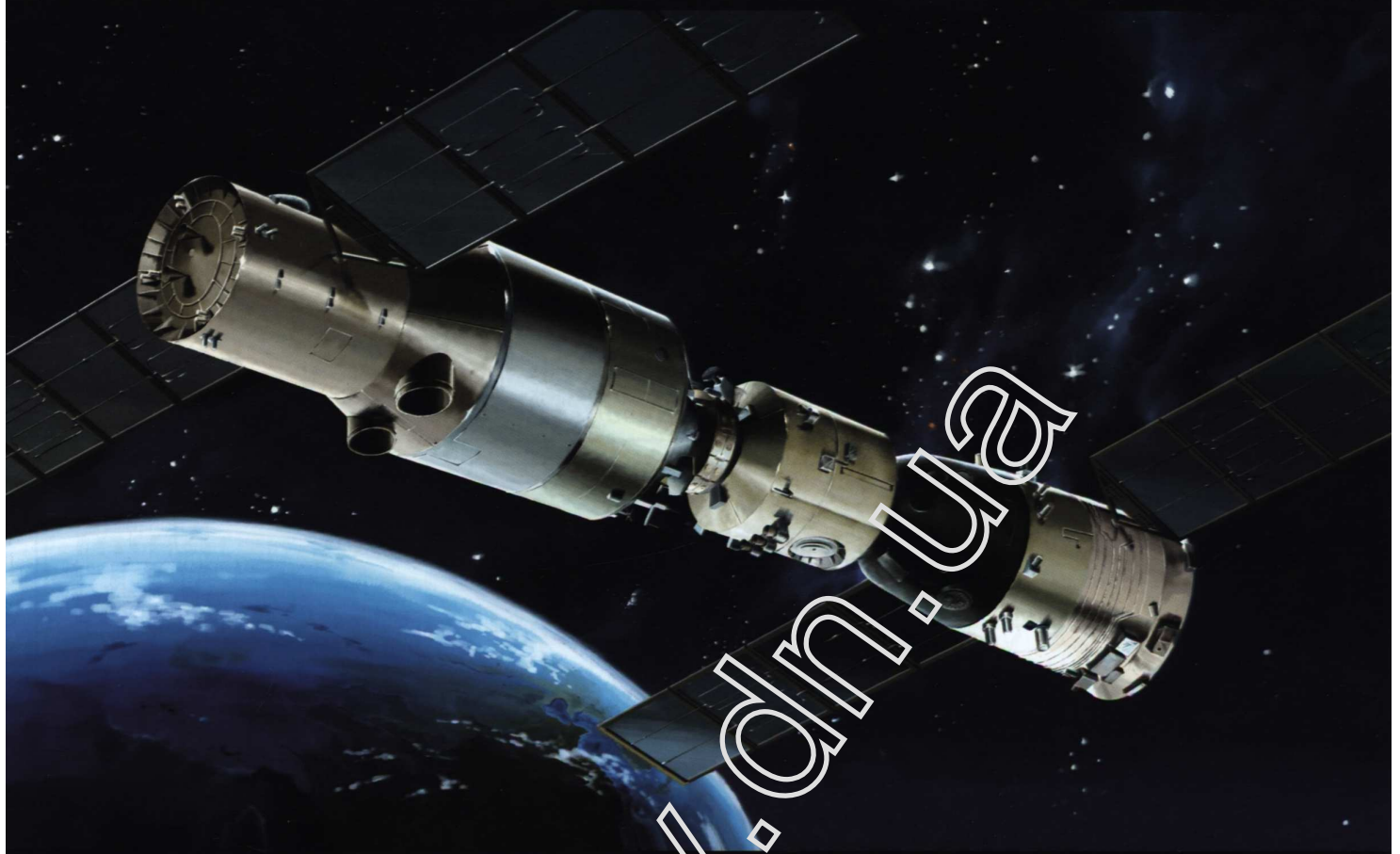


# L4804 TIANGONG-1 & SPACECRAFT SHENZHOU-8

1/48 SCALE 中国天宫一号空间站与神舟八号飞船 太空对接 CHINA'S SPACE LAB MODULE

G.W.H.™



According to the China's Space project, the manned space program will be completed in 3 steps: The first step is to launch unmanned and manned spacecraft. Initially single astronauts will be transferred to a near-earth orbit to complete earth observation and experiments and then return to earth safely. In the second step astronaut crews will be traveling together; they will leave the spacecraft to conduct spacewalks. The rendezvous and docking of the spacecraft with a space station will have to be completed successfully, too. In the third and final step a permanent, manned space station will be established to complete China's space system. The astronauts and scientists will travel between the space station and earth to arrange larger scientific experiments. The Tiangong-1 and Shenzhou-8 serve to complete the second step of China's Space project.

The Tiangong-1 space-laboratory module / target spacecraft is 10.4 meter in length and 3.35 meter in diameter, the full load weight is 8506kg. Structurally, Tiangong-1 is divided into two primary sections: a resource module, which mounts its solar panels and propulsion systems, and a larger, habitable experimental module. Tiangong-1 has a pressurized habitat of approximately 15 cubic meters. Inside of the experimental module and 3 astronauts will be able to work and live. The pressure-tight compartment is in the rear. The resource module with its regenerative life support system and other equipment is up front. In front of the experimental module are the passive APAS-type docking

connectors for rendezvous and docking with the tracking spacecraft. The resource module provides the power for orbital maneuvers and the propulsion for the space station.

The Shenzhou-8 unmanned flight is the 8th spacecraft of China's Shenzhou program. It is an improved version, 8 meters in length and 2.8 meters in diameter, the full load weight is 8130kg. Shenzhou-8 consists of the Orbital Module, Re-entry Module and Propelling Module. The auto-docking connectors are installed in front of the orbital module for docking with the target spacecraft. Even though Shenzhou-8 is used as an unmanned craft, it is designed for manned space flight. Through the unmanned docking experiment flight, the craft can be tested to ensure it is suitable for manned space flight in future.

The unmanned Shenzhou 8 mission successfully docked with Tiangong-1 twice on 3 November and 13 November 2011, marking China the third nation to develop technology of orbital docking after the United States and Russia. China successfully completed the space transport and extravehicular activity stages- basic technologies necessary for manned space flight- as well as spacecraft rendezvous and docking techniques. In fact China has arrived at the era of a manned space station successfully. The foreign media say the successful launching of Tiangong-1 is a most important milestone for China's space program.

按照中国航天事业发展规划，载人航天计划分三步实施，第一阶段是发射无人和载人飞船，将航天员安全地送入近地轨道，进行对地观测和科学实验，并使航天员安全返回地面。第二阶段是继续突破载人航天的基本技术：多人多天飞行、航天员出舱在太空行走、完成飞船与空间舱的交会对接。第三阶段为建立永久性的空间试验室，建成中国的空间工程系统，航天员和科学家可以来往于地球与空间站，进行规模比较大的空间科学试验。而天宫一号和神舟八号就是为第二阶段而应运而生的。

天宫一号目标飞行器全长10.4米，最大直径3.35米，重8.5吨，由实验舱和资源舱构成。实验舱的可活动空间达15立方米，可同时保证三名航天员驻留期间的在轨工作和生活，密封的后锥段安装再生生命保障系统等设备。实验舱前端安装一个对接机构，用于支持与追踪飞行器实现交会对接。资源舱为轨道机动提供动力，为飞行器提供能源。

神舟八号无人飞行器，是中国“神舟”系列飞船的第八个，“神八”为改进型飞船，全长9米，最大直径2.8米，起飞质量8130公斤。神舟八号飞船为三舱结构，由轨道舱、返回舱和推进舱组成。飞船轨道舱前端安装自动式对接机构，用于支持与目标飞行器实现交会对接。神舟八号虽然是无人飞行，但是按照载人要求设计的。通过这次飞行，可以验证改进后的飞船能否适应载人航天飞行的要求。

2011年11月3日和11月13日，“天宫一号”目标飞行器和“神舟八号”飞船先后两次完成太空完美对接，意味着我国继掌握天地往返、出舱活动技术之后，又突破了载人航天三大基础性技术的最后一项——空间交会对接技术，是继美国和俄罗斯之后，又一个掌握完整交会对接技术的国家，它意味着，中国已经成功叩开了空间站时代的大门。外媒称天宫一号的成功发射铸就了中国航天里程碑。



△注意:

1. 勿於近火處使用膠水或油漆，並打開窗戶保持空氣流通。
2. 塗料的號碼請參考本欄以下的說明。本品本身不包括膠水和塗料。
3. 自膠架中取出部件時，應用模型專用剪，並用介刀或小挫除去多餘膠料。
4. 各圖形的含義可參考本欄以下的說明。

△CAUTION:

1. When you use glue or paint, do not use near a open flame, and use in a well-ventilated room.
2. See below for the color list. Glue and paint are not included in this kit.
3. When you take parts off the runner frame, use the modeling scissors and trim excess plastic with a cutter or a file.
4. See below for the meaning of symbols.

組み立ての注意:

1. 接着剤や塗料は火の近くで使わないで下さい、使用の際は換気をよくして下さい。
2. 塗料指定のは下記のとおりです、接着剤や塗料は入っていないので別に求めて下さい。
3. 部品のランナーから切り離す時は模型用ハサミ等を使い、余分な部分はカッターやヤスリ等で仕上げて下さい。
4. 組立図のサインマークは下の説明を御覧下さい。



FILL HOLE

填平  
穴を埋めて下さい



APPLY DECAL

水印粘紙  
デカールを貼って下さい



CUT OFF

切除  
切り取って下さい



BEND

弯折  
折り曲げて下さい



MAKE TWO SET

制作两组  
2個作って下さい



DO THE SAME  
ON THE OPPOSITE

另一側相同制作  
反対側も取り付けます



CEMENT

胶水  
接着して下さい



OPEN HOLE

钻孔  
穴をあけて下さい



OPTIONAL

选择使用  
どちらかを選んで下さい



NO CEMENT

不用胶水  
接着しないで下さい



INSTANT GLUE

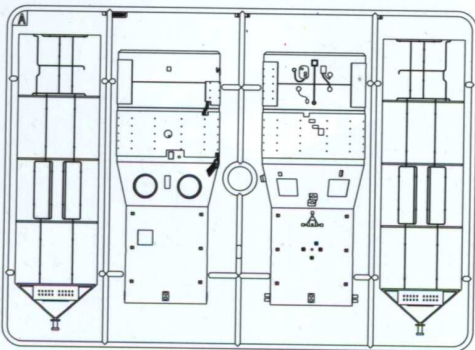
瞬時接着剤(金具用)  
瞬間接着剤(金具用)



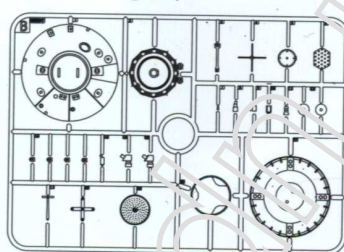
BE CAREFUL

注意  
注意して下さい

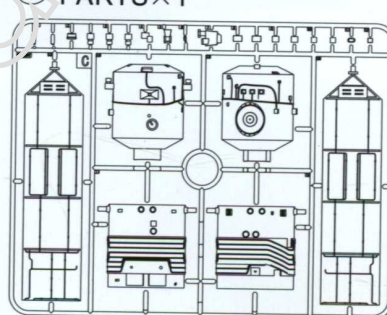
A PARTS×1



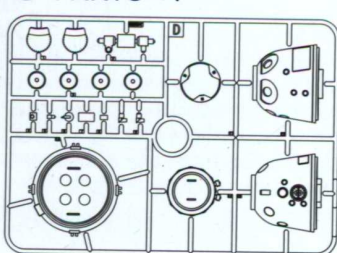
B PARTS×1



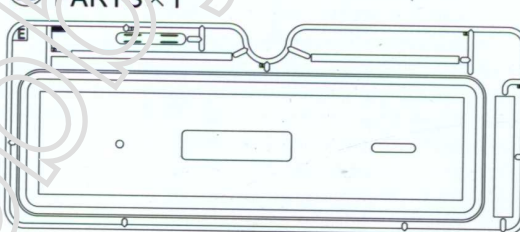
C PARTS×1



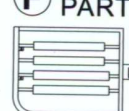
D PARTS×1



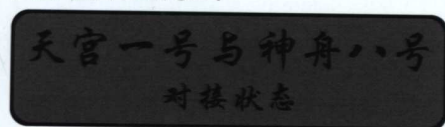
E PARTS×1



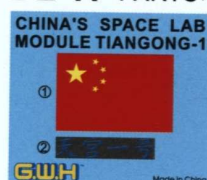
F PARTS×1



PE A PARTS×1



DE A PARTS×2



DE B PARTS×1



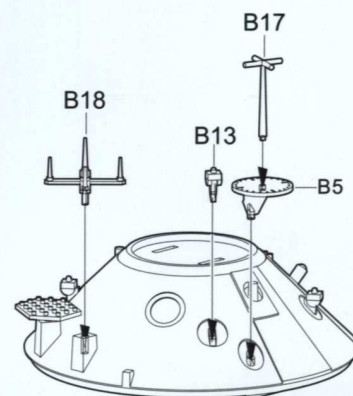
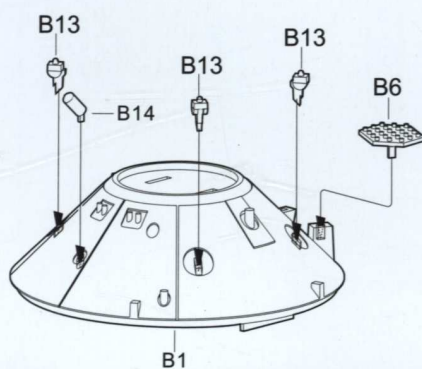
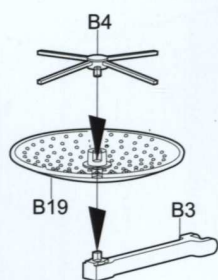
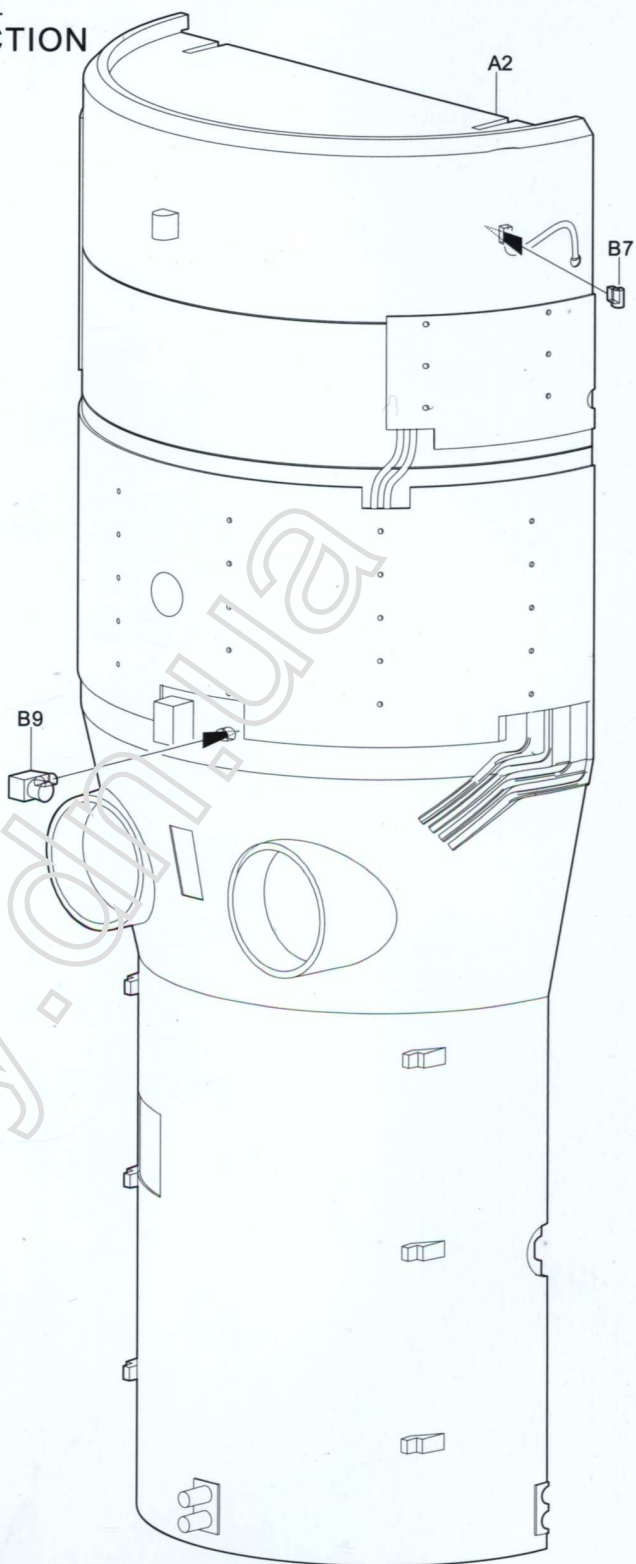
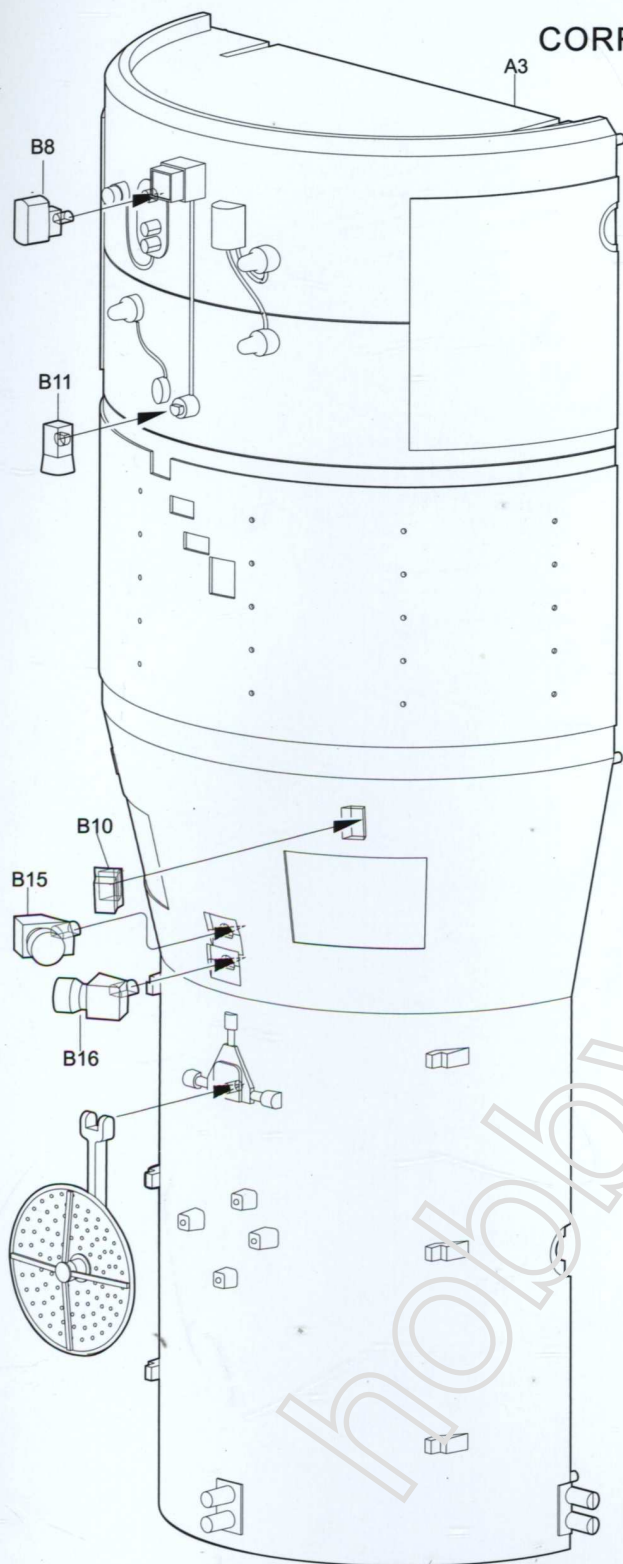
C 000 GSICEROS CORP.HOBBY COLOUR

C 1	X2	白色	White
C 5	X4	蓝色	Blue
C 8	X11	银色	Silver

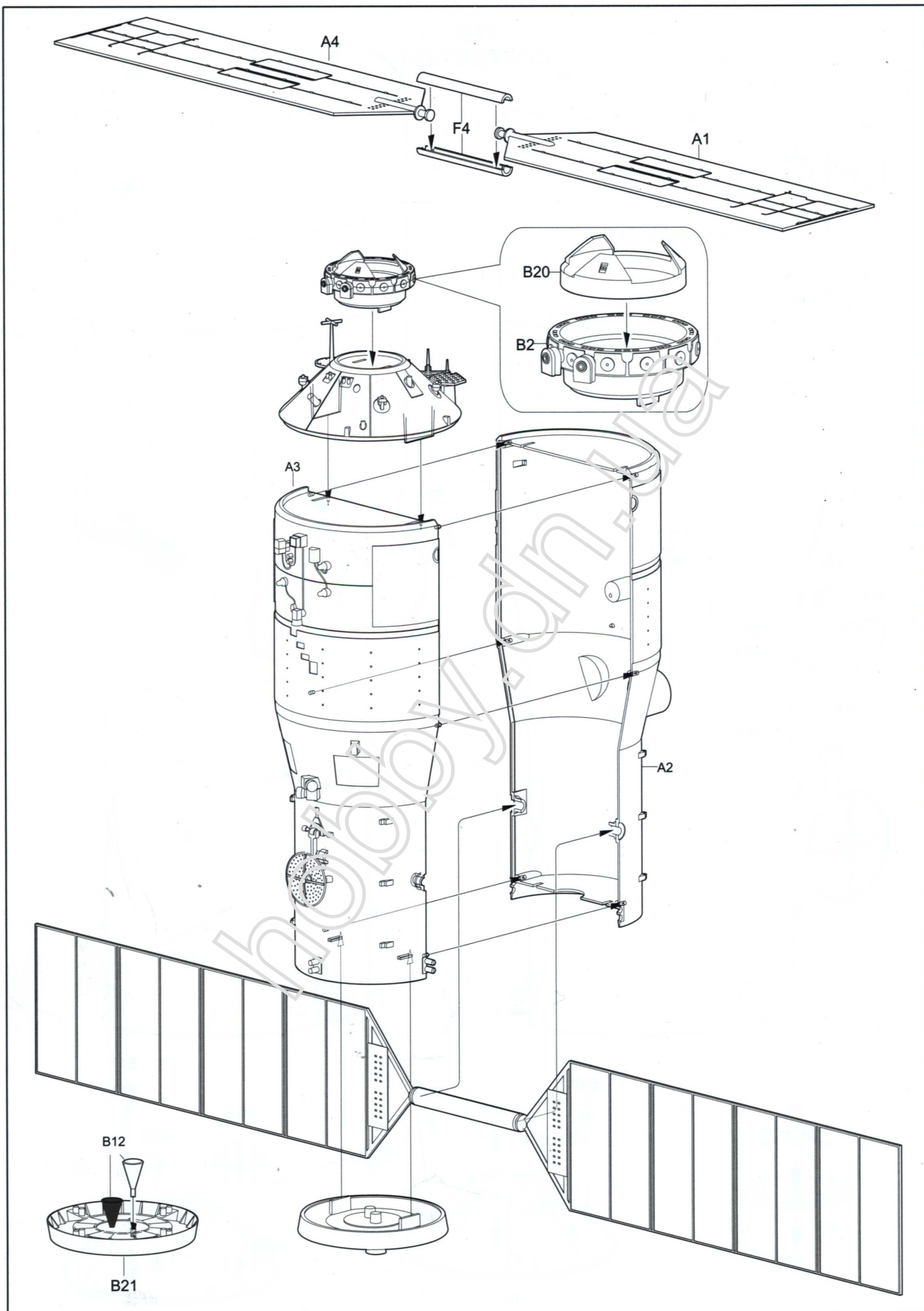
XF-00 TAMIYA COLOR ACRYLIC PAINT

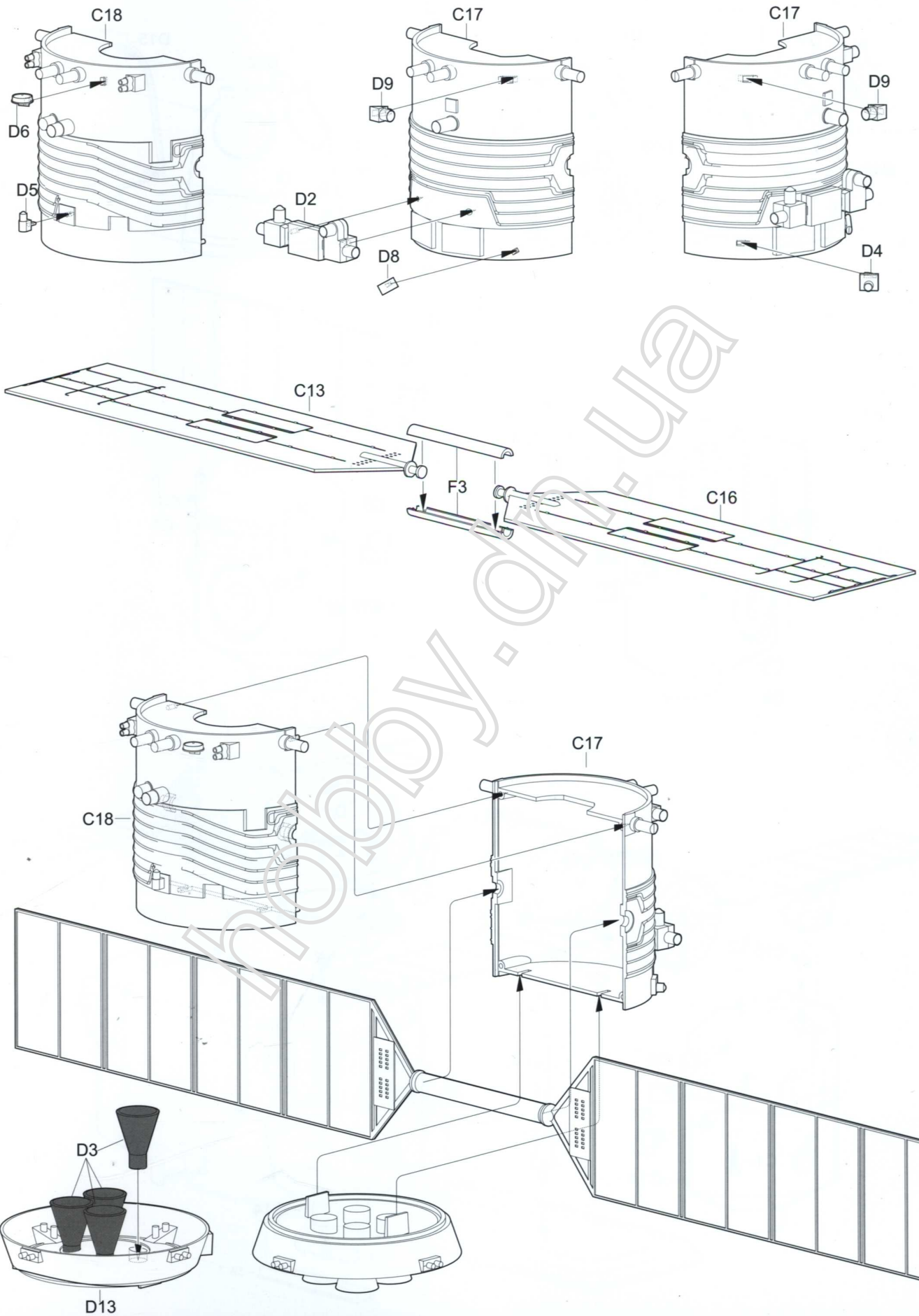
C 13	X20	中灰	Neutral Gray
C 33	XF1	亚黑色	Flat Black
C 35	XF12	明灰白色	ljin Gray

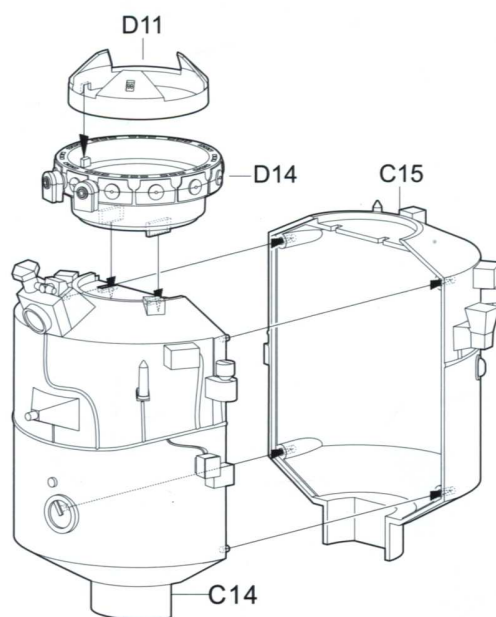
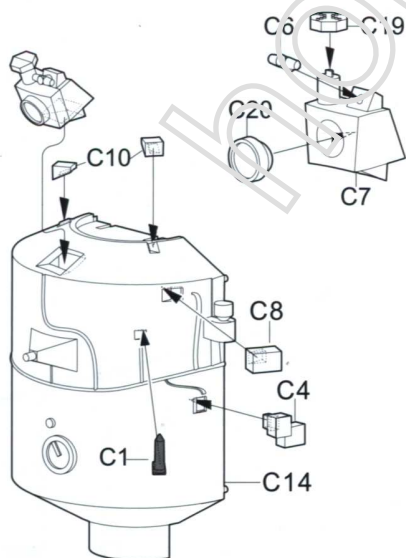
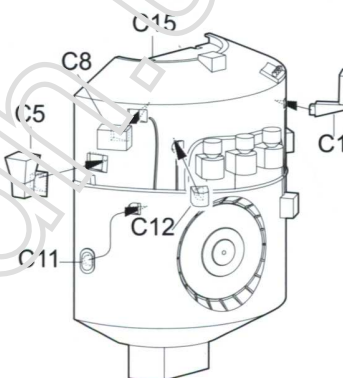
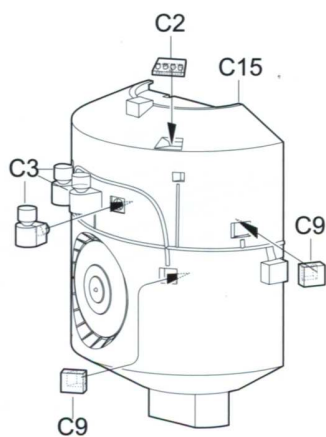
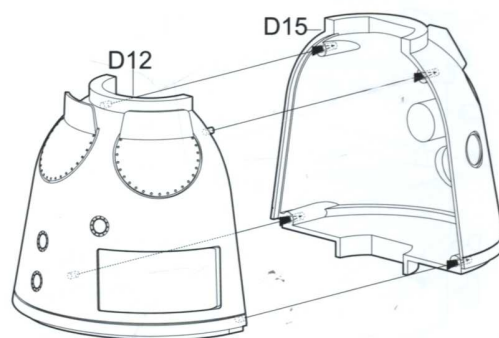
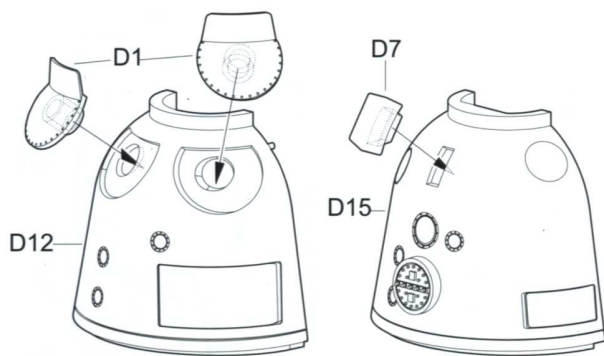
# 订正 CORRECTION



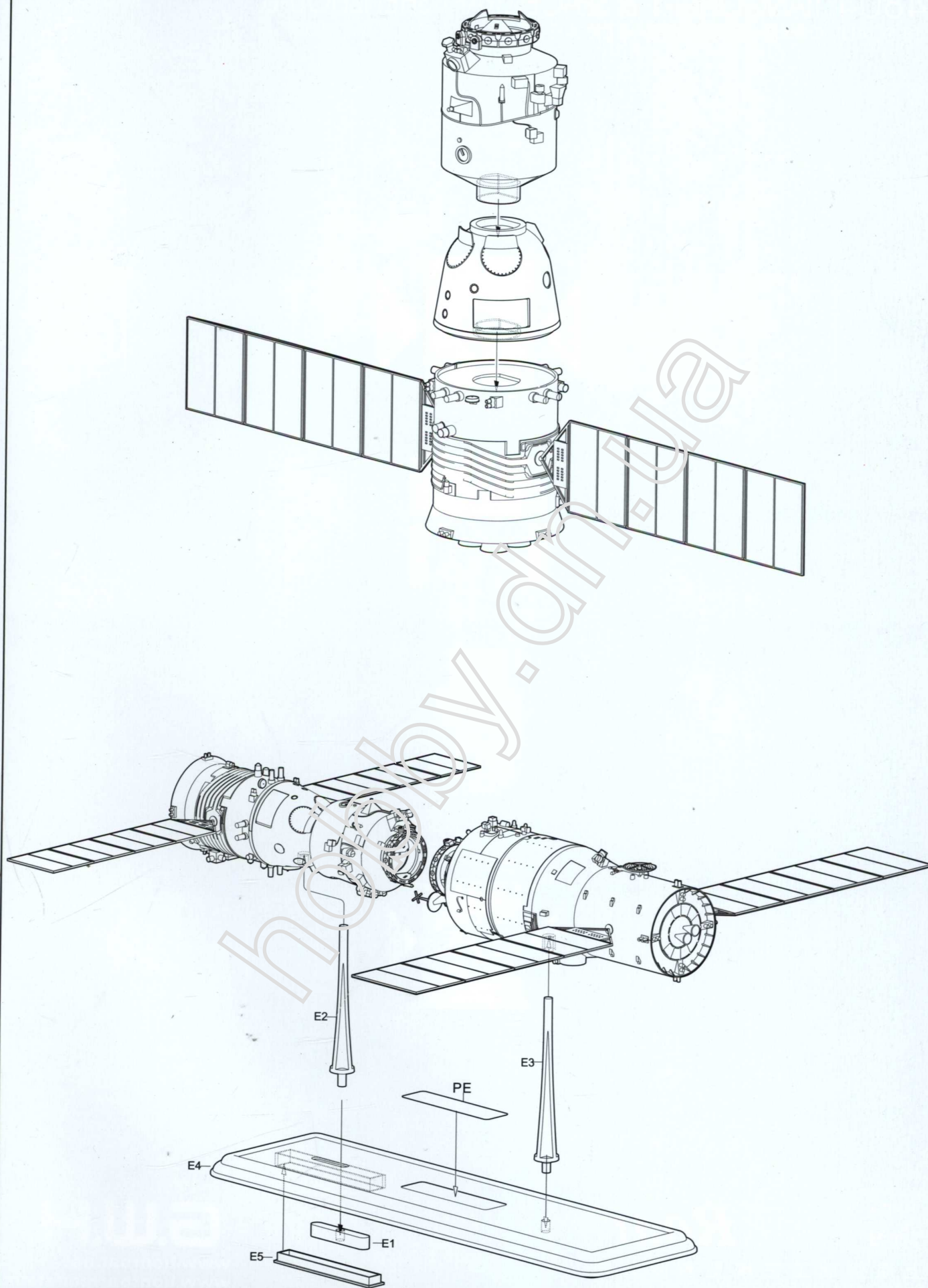












## 1/48 SCALE 中国天宫一号空间站与神舟八号飞船 太空对接 CHINA'S SPACE LAB MODULE



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