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SPIRIT STEALTH BOMBER



1:72 SCALE



The Northrop (later Northrop Grumman) B-2 Spirit, also known as the Stealth Bomber, is an merican heavy penetration strategic bomber, fe uring low observa for penetrating dense anti-aircraft defenses; it is a flying wing design with a crew of two. The bomber can deploy both conventional and thermonuclear weapons, such as eighty 500 lb (230 kg)-class (Mk 82) JDAM Global Positioning System-guided bombs, or sixteen 2,400 lb (1,100 kg) B83 nuclear bombs. The B-2 is the only acknowledged aircraft that can carry large air-to-surfa standoff weapons in a stealth configuration.

Development originally started under the "Advanced Technology Bomber" (ATB) project during the Carter administration; its expected performance was one of his reasons for the cancellation of the supersonic B-1A bomber. The ATB project continued during the Reagan administration, but worries about delays in its introduction led to the reinstatement of the B-1 program, as well-program costs rose throughout development. Designed and manufactured by Northrop, fater Morthrop Grumman, the cost of each aircraft averaged *\$727 million (in 1997 dollars). Total procurement costs averaged \$929 million per aircraft, which includes spare parts, equipment, retrofitting, and software support. The total program cost including development, engineering and testing, averaged \$2.1 billion per aircraft in 1997.

ele capital and operating costs, the project was controversial in the U.S. Congress and among the Joint Chiefs of Staff. The winding-down of the Cold War in the latter portion of the 1980s dramatically reduced the need for the aircraft, which was designed with the intention of penetrating Soviet airspace and attacking high-value targets. During the late 1980s and 1990s, Congress slashed plans to purchase 132 bombers to 21. In 2008, a B-2 was destroyed in a crash shortly after takeoff, though the crew ejected safely. There are 20 B-2s in service with the United States Air Force, which plans to operate the B-2 until 2058.

The B-2 is capable of all-altitude attack missions up to 50,000 feet (15,000 m), with a range of more than 6,000 nautical miles (6,900 m); 11,000 km) on internal fuel and over 10,000 nautical miles (12,000 mi, 19,000 km) with one midair refueling. It entered service in 1997 as the second aircraft designed to have advanced stealth technology after the Lockheed F-117 Nighthawk attack aircraft. Though designed originally as primarily a nuclear bomber, the B-2 was first used in combat, dropping conventional, non-nuclear ordnance in the Kosovo War in 1999. It later served in Iraq, Afghanistan, and Libva.

Certifer a utalatuceristuse
Crew. 2: pilot (left seat) and mission commander (right seat)
Length: 69 ft (21.0 m)
Wingspan: 72 ft (62.4 m)
Height: 17 ft (5.18 m)
Wing area: 5.74 oth " (478 m*)
Empty weight: 158,000 lb (71,700 kg)
Leaded weight: 335,500 lb (152,200 kg)
Max. takeoff weight: 376,000 lb (170,600 kg)
Fuel Capacity: 167,000 pounds (75,750 kg)
Powerplant: 4 × General Electric F118-GE-100 non-afterburning turbofans, 17,300
#477 bMA aced (77.4 bMA aced (74.4 b Powerplant: 4 ~ . lbf (77 kN) each

Performance

Maximum speed: Mach 0.95 (550 knots, 630 mph, 1,010 km/h) at 40,000 ft altitude / Mach 0.95 at sea level Cruise speed: Mach 0.85[63] (487 knots, 560 mph, 900 km/h) at 40,000 ft altitude Range: 6,000 nmi (11,100 km (6,300 mi)) Service ceiling: 50,000 ft (15,200 m) Wing loading: 53 lbff* (329 kg/m²) Thrust/weight: 0.205

Armament

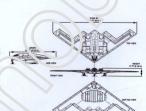
2 internal bays for ordnance and payload with an official limit of 40,000 ib (18,000 kg), maximum estimated limit is 50,000 ib (23,000 kg).

80% 500 ib class bombe (Mk-82, GBU-38) mounted on Bomb Rack A * embly

(BRA)
36× 750 lb CBU class bombs (Mk-84, GBU-31) mounted on Rotary Launcher

Assembly (RLA)
16x B67 or B63 nuclear bombs on RLA (strategic mission)
Standoff weapon: AGM-154 Joint Standoff Weapon (JSOW) and AGM-158 Joint
Air-to-Surface Standoff Missile (JASSM)





| Air Vehicle No | Block No | USAF s/n | Formal name | Time in service, status |
|----------------------|----------|----------|-------------------------|----------------------------------------------------------------------|
| AV-1 | Test/30 | 82-1066 | Spirit of America | 14 July 2000 – Active |
| AV-2 | Test/30 | 82-1067 | Spir's of Alizona | 4 December 1997 – Active |
| AV-3 | Test/30 | 82-1068 | Sr rit of New 10 . | 10 October 1997 - Active |
| AV-4 | Test/30 | 82-1069 | Spirit of Ir dir na | 22 May 1999 – Active |
| AV-5 | Test/20 | 82-107C | Spirit of Oh o | 18 July 1997 – Active |
| AV-6 | Test/30 | 82-10, | Coirit of Mississipp | 23 May 1997 – Active |
| AV-7 | 10 | 88-0328 | Soint of Texas | 21 August 1994 – Active |
| AV-8 | 10 | 62-0329 | Spin of M. souri | 31 March 1994 - Active |
| AV-9 | 10 | 29-0520 | Spirit of California | 17 August 1994 – Active |
| AV-10 | 10 | 88-0531 | Spirit c South Carolina | 30 December 1994 – Active |
| AV-11 | 10 | 88-0332 | Spirit of Washington | 29 October 1994 – Severely damaged by fire in Februar 2010,repaired. |
| AV-12 | 10 | 89-01 47 | Spirit of Kansas | 17 February 1995 - 23 February 2008, crashed |
| AV-13 | 10 | 99-0128 | Spirit of Nebraska | 28 June 1995 – Active |
| AV-14 | 10 | 89 128 | Spirit of Georgia | 14 November 1995 – Active |
| AV-15 | 12 | 90-0040 | Spirit of Alaska | 24 January 1996 – Active |
| .1V-12 | :0 | 90-0041 | Spirit of Hawaii | 10 January 1996 – Active |
| AV-17 | 20 | 92-0700 | Spirit of Florida | 3 July 1996 - Active |
| AV-18 | 27 | 93-1085 | Spirit of Oklahoma | 15 May 1996 - Active, Flight Test |
| AV-19 | | 93-1086 | Spirit of Kitty Hawk | 30 August 1996 - Active |
| A. 20 | ٥٤ | 93-1087 | Spirit of Pennsylvania | 5 August 1997 - Active |
| Av. 21 | 30 | 93-1088 | Spirit of Louisiana | 10 November 1997 – Active |
| AV-22 through AV-165 | | | | Cancelled |

B-2 "幽灵" (英语: Spirit) 是目前世界上唯一的隐身战略轰炸机,于1981年10月20日打败洛克希德 / 洛克威尔, 由诺斯洛普 / 波音团队赢得先进技术轰炸机计划(The Advanced Technology Bomber, ATB),在麻省理工学院科学家协 L之下为美国空军研制生产。1997年,首批六架B-2轰炸机正式服役,而至今一共只生产21架。在F-117A夜鹰攻击机退役 ,F 35闪电11式战斗机尚未服役之时,B-2与F-22猛禽式战斗机为目前世界上仅有可以进行对地攻击任务的隐身型机种。 每⁷ &B-2造价为24亿美元, 若以重量计, B-2的重量单位价格比黄金还要贵两至三倍(最初装备时)。

目前B-2有三个型号, 1993年12月交付的Block10型, 1995年交付的Block20和1997年的Block30。美军在大幅度改善 B-2的常规高精度打击能力,并逐步解决隐身设计所带来的维护问题 。1999年,在北约对塞尔维亚的军事行动中,美军多 架B-2轰炸机由美国本土直飞塞国,期间共投下600多枚联合直接攻击弹药(JDAM),是空战中隐身性与准确性的一大革命 。在2003年的演习中,一架B-2轰炸机一次投下80枚重达500磅(230公斤)的JDAM,显示出先进的精确饱和攻击能力。

•READ BEFORE ASSEMBLY

Nivmen you use glue or paint, do not near flame, and use in a well-ventiated room.
 Take extra care in handling phote etch parts in order to avoid injury
 Nivmen you take parts off the runner frame, use modeling scissors and trim

5. This product is only suitable for experienced more than 14 years old.

●装配之前仔细阅读:

2. 取蚀刻片时应特别注意安全, 防止利边划伤手指

3. 从胶架中取出部件时,应用模型专用剪,并用界刀或小锉除去多余的胶料。 4. 请使用塑料胶水和油漆、模型内不含

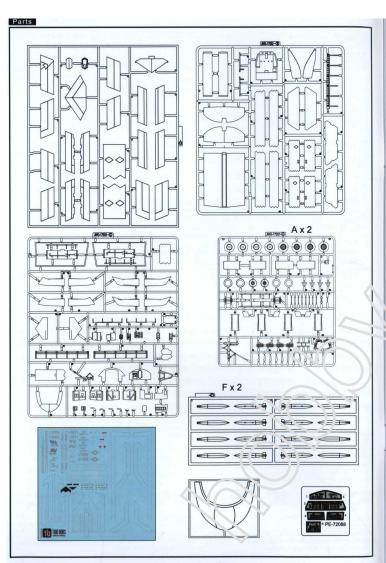
DECAL APPLICATION

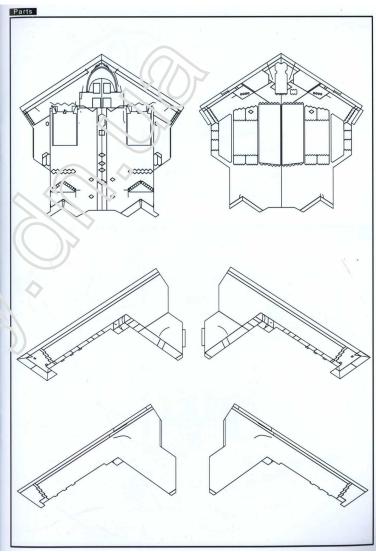
2.Dip the decal in tepid water 40° C for about 10 sec.and place on a clean cloth.

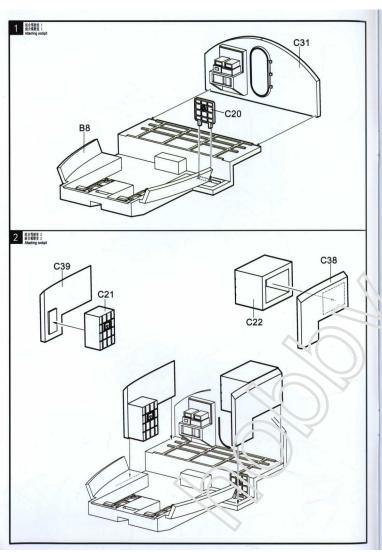
3.Not we became high water 40 Color to security piece on a cean cities.
4.Move decal into position by wetting decal with finger.
5.Press decal gently down with a soft cloth until excess water and air bubbles, are gone.

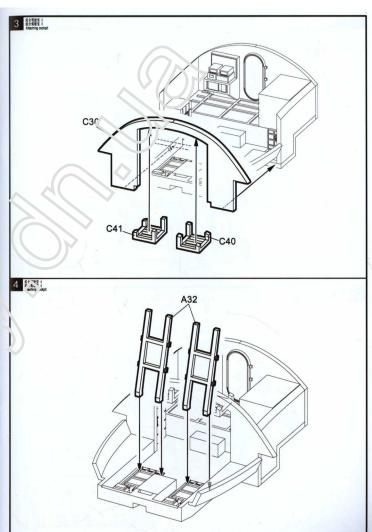
从水贴纸上剪下印花。

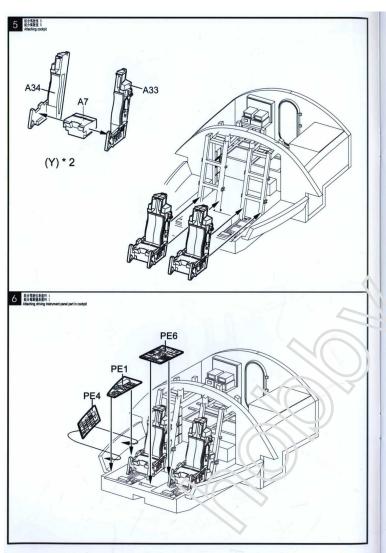
将印花放入温水中浸10秒,然后放在干净布上。
 拿着印花纸板将印花移到模型上。

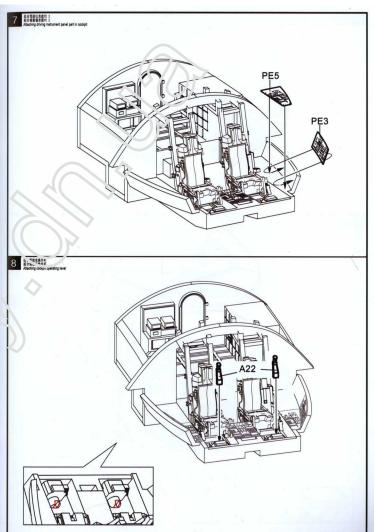


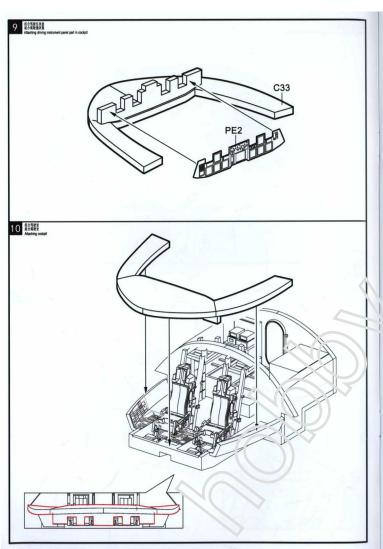


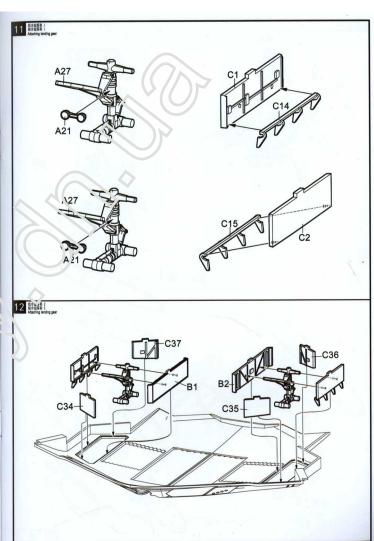


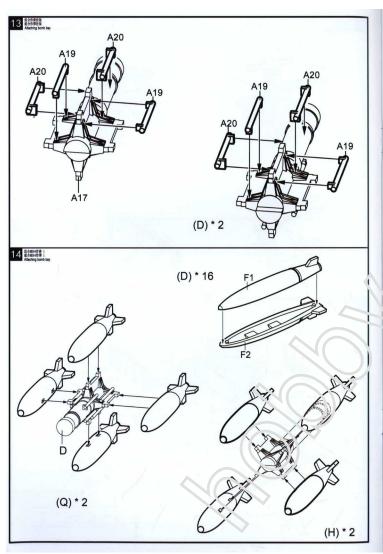


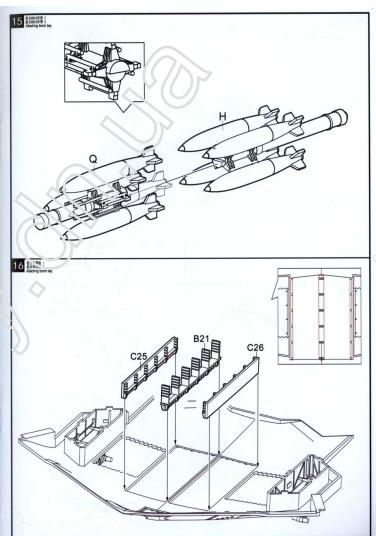


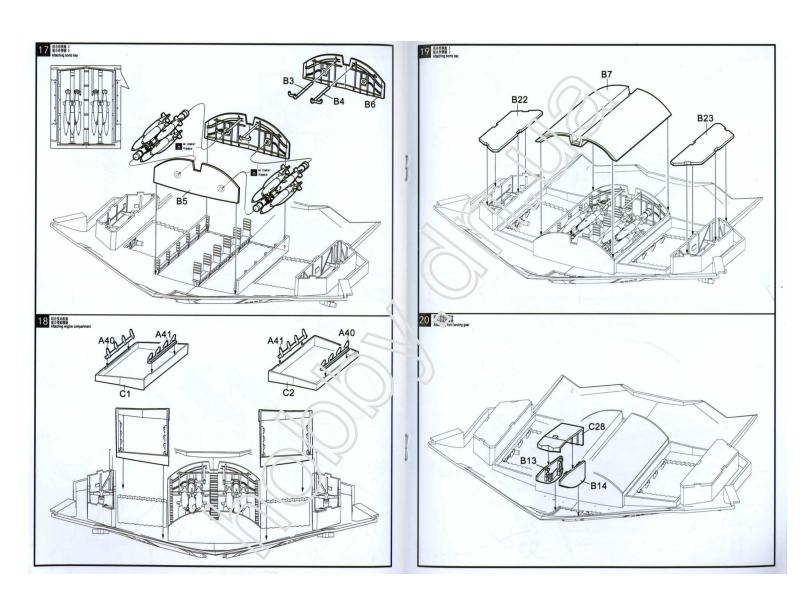


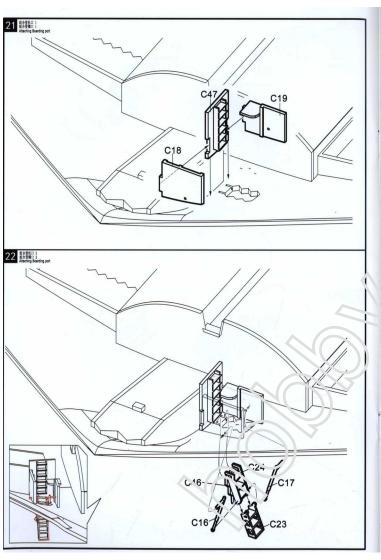


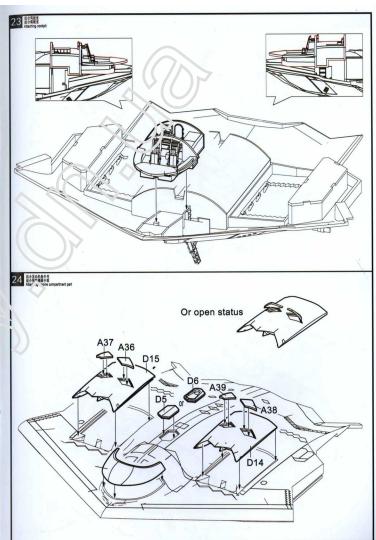


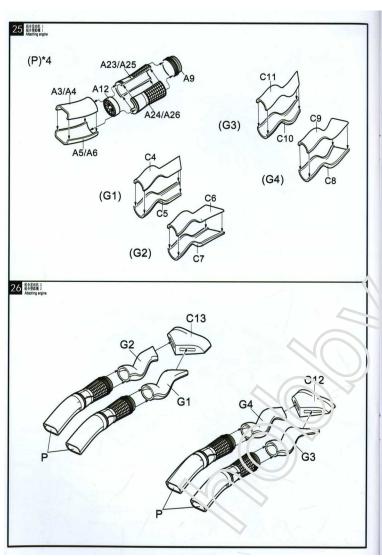


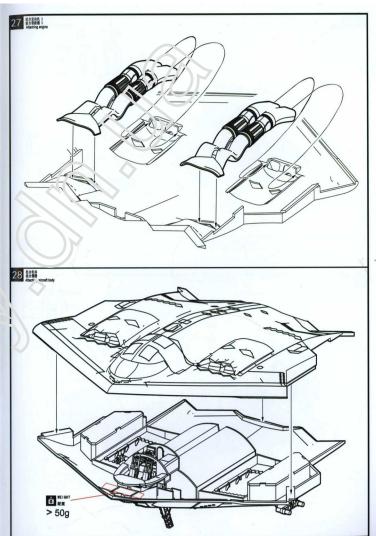


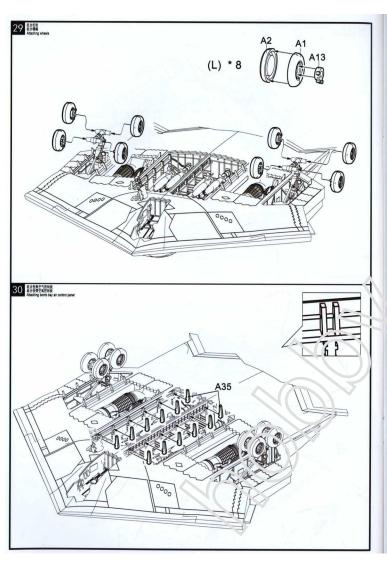


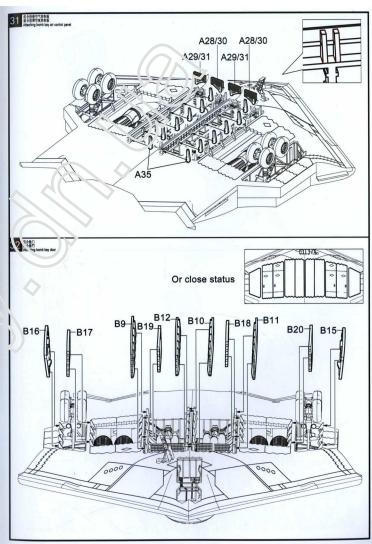


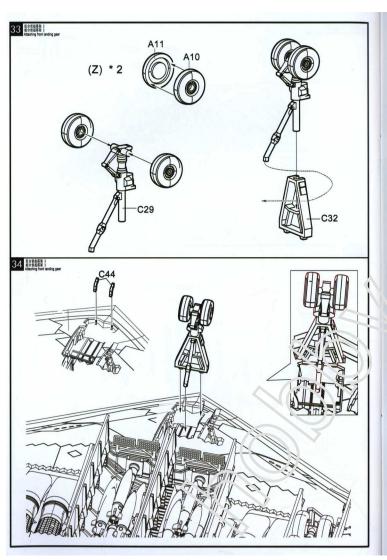


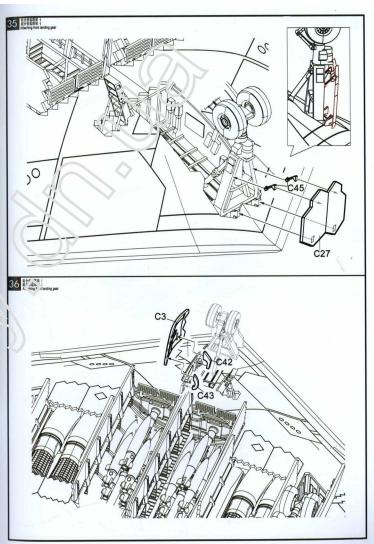


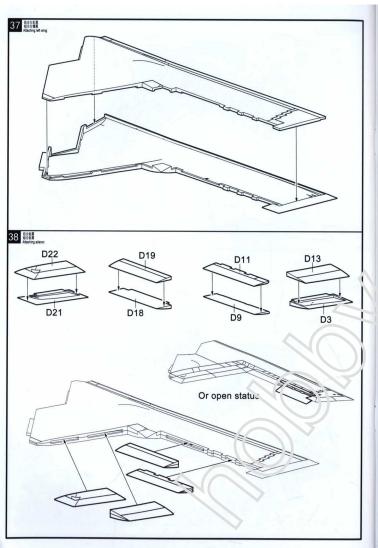


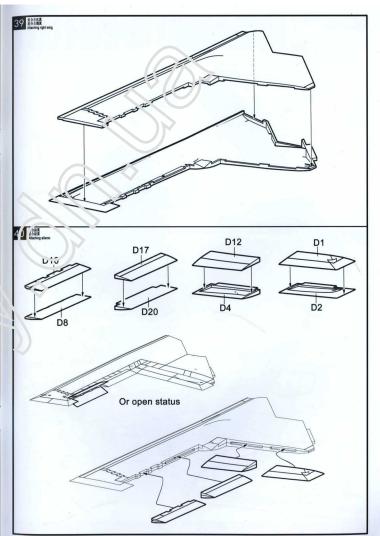


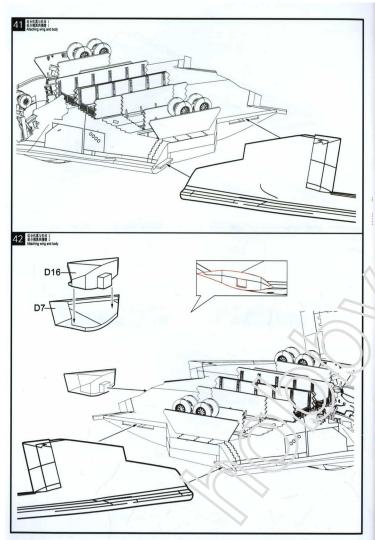


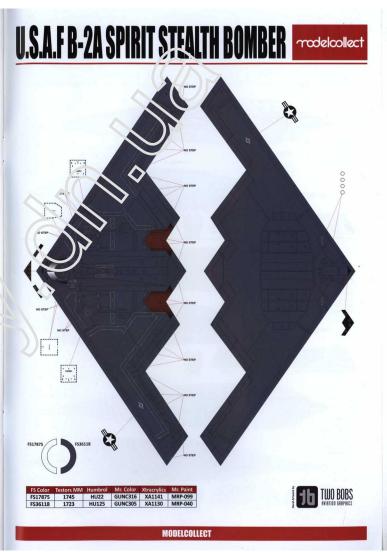












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