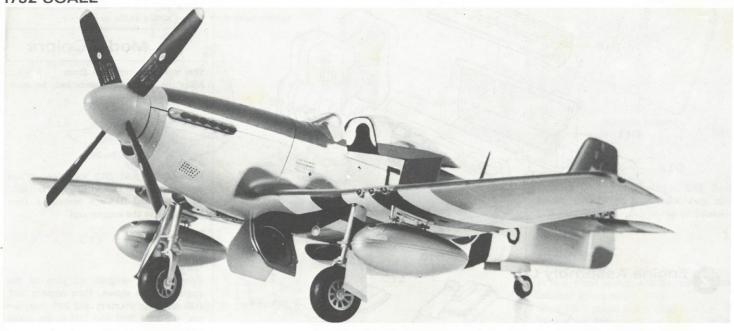
NORTH AMERICAN P-51D MUSTANG 🕡





History & Development

North American P-51 Mustang was the famous fighter airplane during World War II. North American Aviation presented the prototype of a new fighter airplane with superior performance powered by V-1710-39, the same as of the H-87, and put it into production by the name of NA-73. The basic design was made by Raymond Rice and Edgar Schmued. The feature on this NA-73 is that it adopted the laminar flow airfoil, placed the coolant radiator into the underside of the back fuselage to minimize the airflow resistance. The original prototype, of this NA-73 was known as Mustang I and 620 planes were ordered by the Royal Air Force; the delivery started in August of 1940. Mustang I was equipped with bulletproof fuel tank, armour plate, 2 x 12.7 mm machine guns under the nose and 4 x 7.7 mm machine guns in the wing. The Mustang for the U.S. Army was the P-51. The great maneuverability at low ceiling and the high speed were the outstanding feature. The difference from Mustang I was that the wing armament had 4 x 20 mm cannons. On the improved type P-51A, 1470 hp. V-1710-81engine was installed for instant and emergency take-off; the armour was replaced with 4 x 12.7 mm machine guns, and newly equipped with the auxiliary tanks or 225 kg. bombs to the underside of the wing. P-51B was the first full scale production model for the U.S. Army and 1988 planes were built at Inglewood Plant as well as 1750 planes of P-51C. P-51D made its first appearance in 1944, with sliding canopy hood. It was powered by the V-1650-7 engine and equipped with 6 x 12.7 mm machine guns and 2 x 450 kg. bombs. At the Inglewood Plant, 6502 planes were produced, and at the Dallas Plant 1454 planes. 281 planes and 136 scout planes were also produced for the Royal Air Force at Inglewood. The P-51D fell short in its performance compared to the P-51B and P-51C, but because of its well-balanced structure, it was the most popular type as a all-round fighter. This plane showed action in Europe and the Pacific War fronts. From 1944 and in February 1945 it escorted the B-29 in its bombing attack on mainland of Japan. The first appearance was made over Tokyo in April 17, 1945. For the latter airplane of this type, rocket bombs and 6 bazooka launchers were installed under its wing. P-51F was completed in June of 1944 armed with only 4 machine guns, made the landing wheels smaller, changed the propeller to 3 blade type and adopted plastic materials to lighten the entire weight. In 1944, XP-51G (2 planes produced) made its apperance, being much lighter than the P-51F, and equipped with Rolls Royce Merlin 145 Engine and with 5 blade propeller. The maximum speed was improved to 760 km/hr. P-51H, the last produced model, made its maden flight in February 3, 1945. It was heavier than the P-51F, but its maximum speed reached 784 km/hr. and the flight range became greater. However, due to the fact the war ended, only 555 planes were produced. The fame on this plane was demonstrated in its air combat, but the secret of its superiority was in its design made with a step ahead

theory compared to the planes of the same class, and its entire coordination of well-balanced. The wing, utilizing the laminar flow
airfoil, was the result of the tunnel test and this was recognized as
one of the major feature. All foils and fuselage were blended into
one smooth shape and the coolant radiator was installed into the
underside of the fuselage so that the plane was provided with the
airframe of the least airflow resistance possible. As for the
armament, both wings were armed with 3 x 12.7 mm Browning
machine guns respectively and adopted bomb rack, capable of carrying 2 x 450 kg. bombs, 10 x 127 mm high speed rocket bombs or 6 x
bazooka rocket launchers. P-51D, assigned by U.S.Army Air
Force, served with the 20th and 7th Air Force in the Pacific Area,
5th Air Force in the Southeast Pacific, 10th Air Force in China and
Burma, 8th and 9th Air Force in Europe, 15th Air Force in Italy,
and the 3rd and 4th Air Force in mainland of U.S.A.



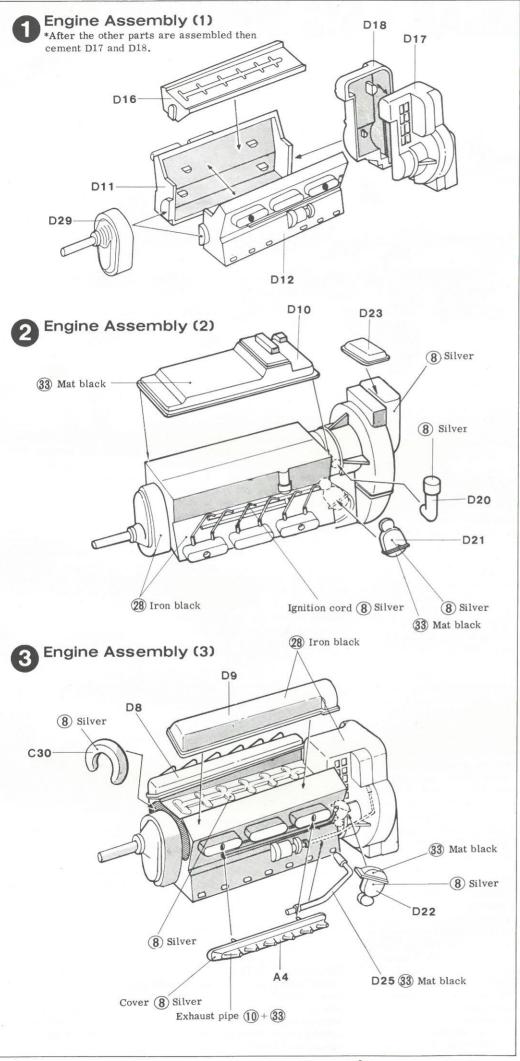
Laminar Flow Airfoil

In the laminar flow theory, the design on airfoil is relatively thin at the leading edge and progressively widened to a point of greatest thickness as far back as possible. This is to maintain the adhesion of the boundary layers of airflow which are present in flight as far back as possible. On normal airfoils the boundary layer would be interrupted at high speed and would cause a turbulent flow over the remainder of the foil.

Laminary boundary layer Transition point Turbulent boundary layer

Data on P-51D

Overall length: 9.85m / Overall width: 11.3m / Overall height: 4.2m Wing area: 21.6m² / Aircraft weight: 3235kg / Engine: Packard Merlin V-1650-7 / Maximum speed: 704km/hr / Ceiling:12,800m Armament: 12.7mm Machine gun x 6 450kg Bombx 2 / Gross weight: 4580-5260kg / Maximum cruising range: 3,700km / Landing speed: 160km/hr / Crew: 1



■ Before Assembling

- *Carefully read the instructions before assembling your model and follow
- *Carefully cut off the parts from the stem with a knife or clipper.



The model colors are from (1) - 60. After the model is assembled, be sure to paint it.

*Drawing - 1

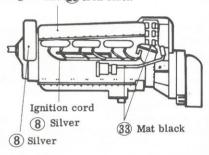
Cement D11 and D12 together. Then cement D16 and D29 to the engine unit. After D17 and D18 are cemented, then cement it to the engine unit.

*Drawing - 2

Cement D10 (engine oil pan) to the engine unit as shown, then cement D23, D20 (electric starter) and D21 (magneto). Cement D20 and D21 to the place indicated by the dotted line.

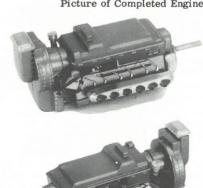
*Engine Reference Drawing

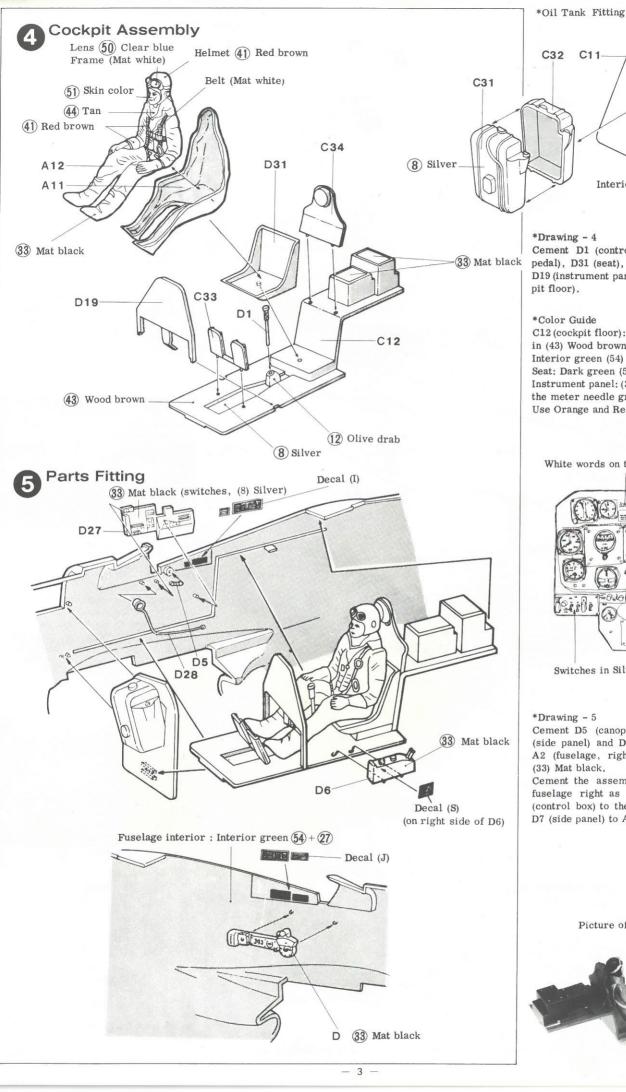
Engine unit (28) Iron black



*Drawing - 3 Cement to the engine D8 and D9 (cam shaft cover), C30, A4 (exhaust pipe), D22 (B magneto) and D25 (pipe). Cement the D22 and D25 to the place indicated by the dotted line.

Picture of Completed Engine





*Drawing - 4 Cement D1 (control stick), C33 (foot pedal), D31 (seat), C34 (headrest), and D19 (instrument panel) to the C12 (cockpit floor).

Interior green

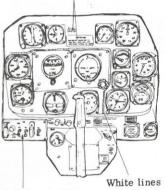
*Color Guide

C11

C32

C12 (cockpit floor): Paint the wood grain in (43) Wood brown, and the other parts Interior green (54) + (27). Seat: Dark green (54) + (33) Instrument panel: (33) Mat black. Paint the meter needle graduation White. Use Orange and Red for accent.

White words on the black background



Switches in Silver

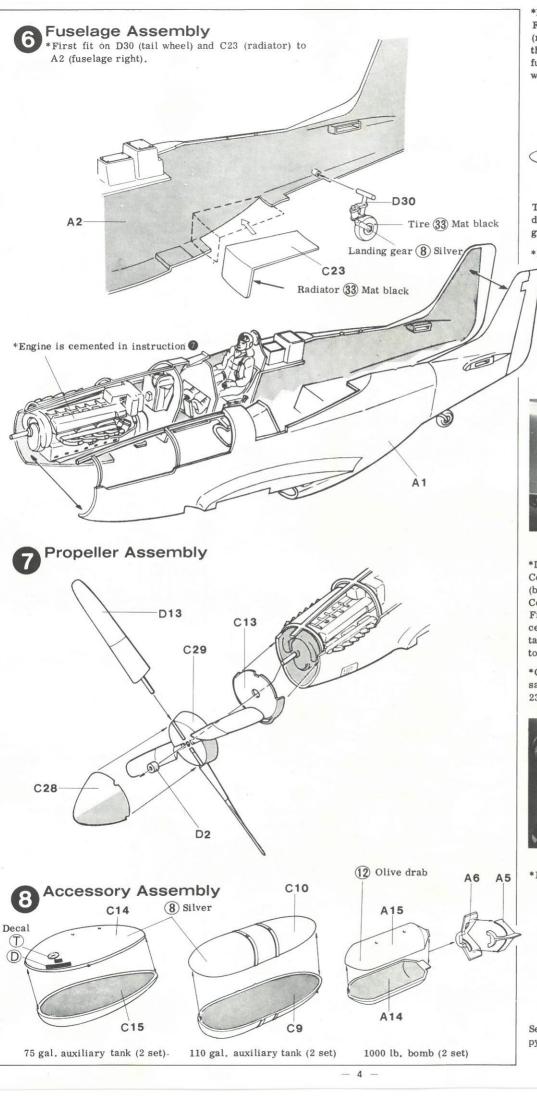
*Drawing - 5

Cement D5 (canopy hand crank), D27 (side panel) and D28 (oxygen hose) to A2 (fuselage, right). Paint D5, D28 (33) Mat black.

Cement the assembled cockpit to the fuselage right as shown. Cement D6 (control box) to the cockpit floor, and D7 (side panel) to A1 (fuselage left).

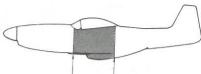
Picture of Completed Cockpit





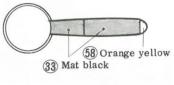
*Drawing - 6 First fit on D30 (tail wheel) and C23 (radiator) to A2 (fuselage right). After the engine and cockpit is fitted on the

fuselage right, then cement it together with A1 (fuselage left).



The fuselage interior, indicated by the diagonal lines, is painted Interior green (54) + (27).

*Propeller Reference Drawing



Propeller Manufactured by Aero Products



*Drawing - 7

Cement D13 (propeller blade) to C29 (back of spinner).

Cement C13 (nose part) to the fuselage. Fit C29 on the engine shaft (Do not cement), and fit on D2 (propeller retainer). Cement C28 (front spinner) to C29.

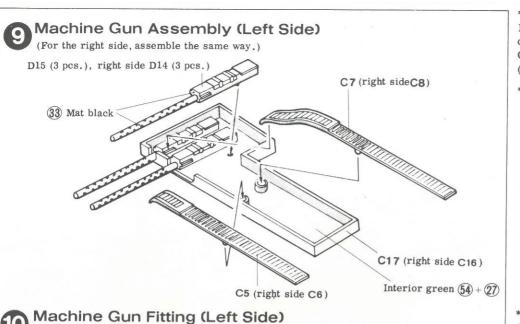
*Cement the 4 propeller blades in the same angle so that the pitch becomes 23° - 65° in all.

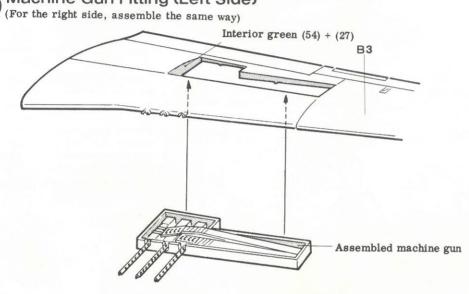


*Pylon Assembly

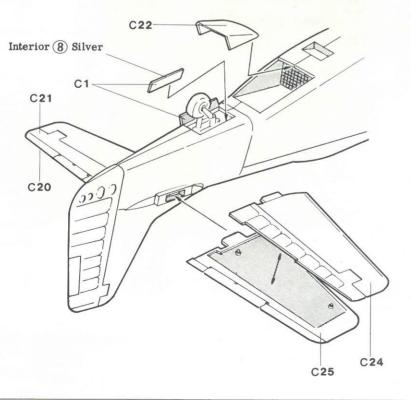


Select from the 3 types and fit it on the pylon.







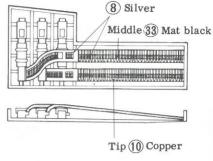


*Drawing - 9

Fit on to the C17 3 pieces of D15 (machine gun).

Cement C5 (cartridge belt) and C7 (cartridge belt) to the designated place.

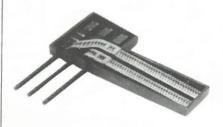
*Machine Gun Fitting Reference Drawing



*Drawing - 10

Cement the assembled machine gun to the back side of the main wing. (The right side is assembled the same way).

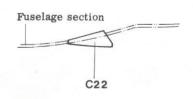
Picture of Completed Machine Gun



*Drawing - 11

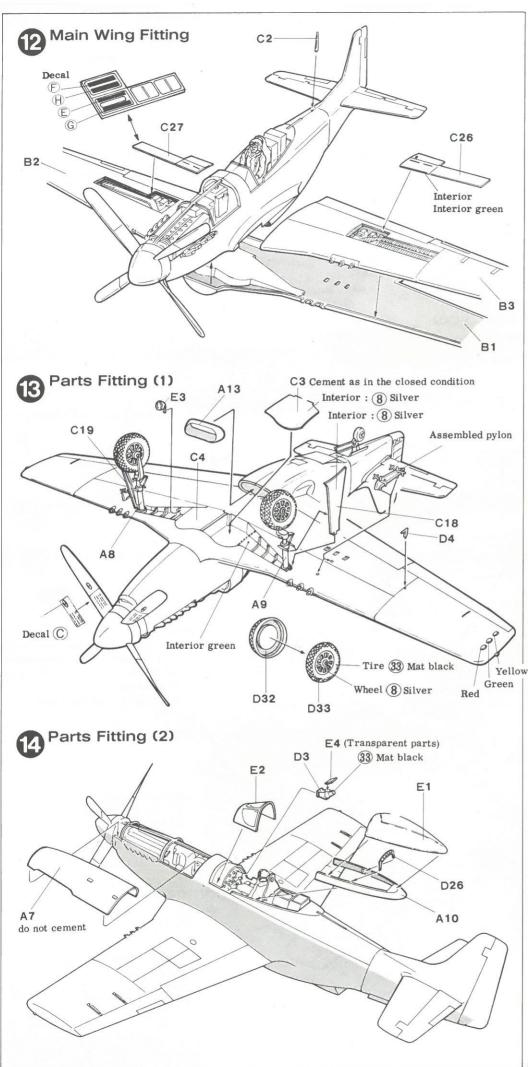
To the assembled fuselage, cement C22 (radiator flap) and C1(tail wheel cover). Cement C24 to C25, and C20 to C21 and then fit it on the fuselage.

Fit on C22 at any desired angle.



Picture of Actual Plane





*Drawing - 12

Cement -B1 (main wing bottom) to the fuselage.

Cement B2 and B3 (main wing top) to the main wing bottom. Do not cement C26 and C27 (machine gun cover). Cement C2 to the fuselage.

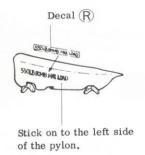
P-82B (Twin Mustang) Reference Picture



*Drawing - 13

Cement A13 (radiator intake) to the fuselage. Cement C3 and C4 (landing wheel cover) to the main wing bottom. Cement the wheel to the A8 and A9 (landing gear).

Cement C18 and C19 (landing gear cover) to the landing gear strut. After the E3 (landing light) is painted (paint it Silver, excluding the lens), cement it under the main wing.



*Drawing - 14

Fit on E4 (sun filter) to D3 (gun sight) and then cement it to the instrument

Fit on D26 (canopy frame) to A10 (canopy base) and after E1 (canopy) is cemented, cement it to the fuselage in the desired position. Cement E2 (canopy shield) to the fuselage.

P-51B Reference Picture



Marking & Color Painting Guide *Detail markings are similar both on 1 and 2 Rudder (white and 2 1 8th AF. 65th FW. 4th FG. 335th FS. Pilot: Major P. Mckennon black edge) 3 Red RIDGE RUNNER Anti glare shield Olive drab 472308 RIDGE RUNNER 4++++++++ Nose and spinner Overall fuselage 8 Silver 3 Red Exhaust pipe @ Rust Decal (s) 2 8th AF. 65th FW. 4th FG. 334th FS. Pilot: Lt Col C.H. Kinnard HAND HOLD Nose and spinner Lt Col CH Kinnard 3 Red Olive drab camouflage 414292 000 Overall fuselage (3) Silver Side and bottom Decal STEP HERE STEP Invasion stripe with @ mat white FUEL VENT and @ mat black Olive drab Decal camouflage 9 Overall fuselage 8 Silver Decal (s) Anti glare shield 10 Olive drab NO FUEL VENT STEP Top and Bottom View of 11 Top and Bottom View of 2 Nose and spinner Nose and spinner 3 Red 3 Red Wing tip light (right) Wing tip light (right) 1 Clear blue Anti glare shield Clear blue Olive drab Olive drab Fuselage upper Wing tip light (left) Canopy frame surface 1 Clear red Invasion stripe 8 Silver 3 Red Mat black Silver Wing tip light (left) 1 Clear red Decal (L) Invasion stripe (The same as top view) Invasion stripe Mat white Mat black Green Yellow The same as overall fuselage of 2 Red Bottom view of fuselage Nose and spinner Decal (L) Red Overall fuselage (The same as top view) 8 Silver 8 Silver

■ A Parts √5 [] V 6 5 U 4 4 引 (000 000 0 9 2 00 300 13 | 14 (∩ 14 ■ B Parts 000 000 1 ■ C Parts 12 V 3 0 13 n n 5 . 0 6 1 14: 15____ 10=0 . . 8 1 2 n 26 V V 25 24 J 20 V 21 27 J 1 16 17 30 31 22 23 28 29 U 18 19 33 ■ D Parts 5 6 15 13

12

25

32

16

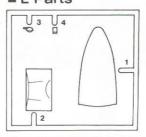
17

22 23

18

शु श CHES.

■ E Parts



■ Parts Number & Name

☐ A Parts

- Fuselage left Fuselage right Pylon Pylon Exhaust pipe left

- Exhaust pipe right Bomb wing B Bomb wing B Bomb wing A Bomb wing A

- Engine cover
- Engine cover
 Landing gear strut left
 Landing gear strut right
 Canopy base
 Pilot
 Pilot
 Radiator intake
 1000 lb. bomb
 1000 lb. bomb
 1000 lb. bomb
- 10. 11. 12. 13. 14. 15.

☐ B Parts

- Main wing bottom
 Main wing top right
 Main wing top left

☐ C Parts

- Tail wheel cover left
 Tail wheel cover left
 Tail wheel cover right
 Antenna
 Main landing gear cover A left
 Main landing gear cover A left
 Main landing gear cover A right
 Cartridge belt B
 Cartridge belt B
 Cartridge belt A
 Dilogal, auxiliary fuel tank
 Jilogal, auxiliary fuel tank
 Jilogal, auxiliary fuel tank
 Laukhead
 Cockput floor
 Jipuselage nose parts
 Anderse auxiliary fuel tank
 Anderse auxiliary fuel tank
 Landing wheel cover B left
 Landing wheel cover B left
 Landing wheel cover B right
 Tail wing bottom right
 Radiator
 Rad

 - 28. Spinner iront
 29. Spinner back
 30. Engine parts A
 31. Oil tank front
 32. Oil tank back
 33. Foot pedal
 34. Headrest

☐ D Parts

- Control stick Propeller retainer Gun sight Pitot tube

- Pitot tube
 Canopy hand crank
 Control box
 Side panel parts A
 Cam shaft cover right
 Cam shaft cover left
 Engine oil pan
 Engine right
 Engine left
 Propeller
 Machine gun left
 Machine gun right
 Engine togn

- 11. 12. 13. 14.

- Engine top
 Engine back left
 Engine back right
 Instrument panel
 Electric starter
 A magneto
 B magneto
 Engine parts

- 16. 17. 18. 19. 20.
- 22.
- 23. 24.
- 26. 27. 28. 29. 30. 31. 32.

- B magneto
 Engine parts
 Pylon parts
 Engine parts C
 Canopy frame
 Side panel parts C
 Oxygen hose
 Engine front
 Tail wheel
 Seat
 Landing wheel inner side
 Landing wheel outer side

☐ E Parts

- Canopy
 Canopy shield
 Landing light
 Gun sight parts

+ Note:

After taking out the parts from the bag, cut it into pieces and throw it away ... to prevent the infant from covering its head

- → Precaution in Handling the Adhesive
- 1. Keep it away from infants and do not use it other than for cementing.
- 2. Keep it away from fire.

33

1

MUSTANG

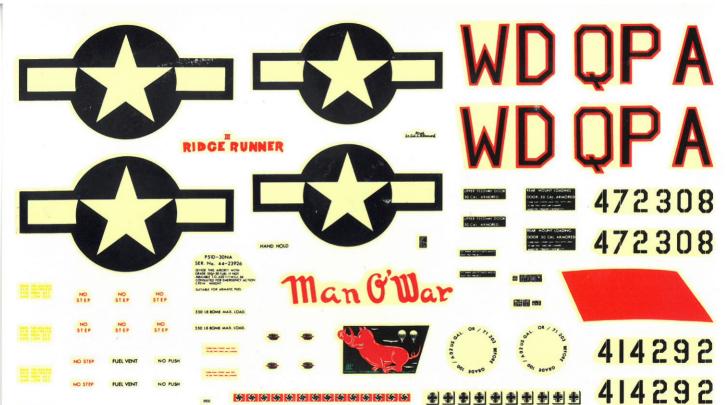
第8空軍、第65戦關連隊、第4戦闘大隊、第334戦闘中隊

P-51D 43929



第8空軍、第65戦闘連隊、第4戦闘大隊、第335戦闘中隊





MADE IN JAPAN

* * * * * * * *