

# F6F-5N Nightfighter

eduard

1/72 Scale Plastic Model Kit

**ProfiPACK**  
edition



item No. 7079

**There are a few aircraft of WW2 with such one-sided record in terms of kill-to-loss ratio as the Hellcat. The performance step compared to its predecessor was just enormous ...**

Representing another step in the "cat" line of the Grumman aircraft, Hellcat was a unique type right from its beginnings. As the war in the Pacific theatre moved on, it was more and more evident the Hellcat's predecessor, Wildcat, which carried the bulk of the strain of the Pacific air war in 1942 on its shoulders, was inferior to the Mitsubishi Zero. The Zero offered better maneuverability, also the top speed and endurance were better. So the need for an aircraft superior to the A6M was obvious.

#### With an eye on experience

In fact, Grumman were working on a successor to F4F Wildcat since 1938 (i.e., three years after the Wildcat had been developed), so they did not have to start from scratch when designing the XF6F-1. The original plan to further develop the F4F with more powerful engine was scrapped in order to deliver what Navy and Marine Corps were calling for. To find their real needs, Leroy Grumman and his chief designers Jake Swirbul and Bill Schwendler worked closely with experienced F4F pilots and US Navy Bureau of Aeronautics (BuAer) to develop brand new fighter. There were many inputs from pilots, like a higher position of the cockpit and sloped forward fuselage for better pilot's view. Finally, the design was completely different compared to the Wildcat, with wing position moved from center of the fuselage to its lower part, although still not fully low-wing design.

The "Sto-Wing" folding mechanism allowed for both hydraulic or manual folding. Folded position of the outer parts of the wing was parallel to the fuselage with the leading edges pointing down. Instead of the Wildcat's fuselage mounted narrow-track main undercarriage operated manually the new fighter was fitted out with robust wide-track hydraulically operated main gear legs, rotating 90° while retracting backwards into the wing.

#### More power needed

The Wright R-2600 Twin Cyclone 14-cylinder two-row radial 1,700 hp (1,300 kW) engine was originally intended for new carrier-based fighter, but the BuAer directed Grumman to use more powerful 18-cylinder Pratt & Whitney R-2800 Double Wasp 2,000 hp (1,500 kW) engine for second prototype as the engine already proved itself in use with the F4U Corsair.

The change necessitated strengthening the airframe, but the change paid off, as the performance raised significantly. The first prototype with the Cyclone engine flew for the first time on June 26, 1942, the XF6F-3 powered by the Double Wasp made its maiden flight on July 30, 1942. Two months later the first production F6F-3 powered by R-2800-10 engine made its inaugural flight (October 3, 1942) and the type reached its operational readiness with VF-9 on the deck of USS Essex in February 1943.

The name Hellcat was chosen to continue with the habit of "cat fighters" of Grumman design. The name not only suggested the place to which the enemies would be sent, it was also a play on words. The term in the old west referred to barroom brawlers,

and that was what the Navy wanted: A tough fighter with hard fists, that could also absorb quite heavy punishment.

The Hellcat was some 60 percent heavier compared to Wildcat, armed with six .50 in (12,7 mm) M2 Browning machine guns in the wing with 400 rounds per gun. It had a more powerful engine, carried more fuel and was generally of a more robust design. It was, after all, over twice as heavy as its main adversary, the A6M Zero. But it was a fighter first and foremost in every sense of the word, designed around the requirements of the pilots to fulfill the combat missions for which it was designed.

#### Shooting turkeys

The first combat engagement of the enemy occurred on September 1, 1943, when an H8K Emily was sent down in flames by two Hellcats. The advantage over Japanese fighters was well demonstrated by Hellcat pilots on February 16, 1944, when, in the vicinity of Truk, they sent down over 100 Japanese fighters and destroyed more than 150 of them on the ground for the loss of only four own aircraft. Five days later, in the Marianas, a further 160 enemy aircraft were destroyed in the air and on the ground. Often one-sided nature of combat was emphasized in the battle for the Philippine Sea that culminated on June 19, 1944, in the legendary "Great Marianas Turkey Shoot". There, Hellcat pilots claimed some 350 enemy aircraft destroyed! A further "turkey hunt" took place between October 12 and 14, 1944 over Formosa, now with some 300 of enemy aircraft destroyed for the loss of 27 Hellcats. Although the Hellcat was progressively replaced by its stablemate F4U Corsair, it served in the combat role until the end of the war. Under the designation F Mk.I and Mk.II, Hellcats served with the Royal Navy, notably in the Atlantic and also in the Far East. There were 12,275 Hellcats of all versions produced and for the loss of 270 of them, their pilots claimed 5,156 kills. That accounts for over half of USN and USMC victories during the war!

#### The kit: F6F-5N Nightfighter

The F6F-5 featured several improvements over the previous F6F-3. The more powerful R-2800-10W engine with water-injection system was the main technical change. The engine cover was slightly reshaped, as it had bulged area around the exhausts below the cooling regulation flaps on F6F-3, while the F6F-5 lacked it. Also, the windshield was different, as the F-6F3 had a rounded plexiglass piece with internally mounted armor glass, while the F6F-5 had the armor glass integrated in the windshield, so it was flat. The side windows behind the cabin were deleted. In addition, the rear fuselage and tail units were strengthened. All of the F6F-5s were capable of carrying one 20-mm M2 cannon in each of the gun bays along with pair of .50 in (12,7 mm) Browning machine guns. But this configuration was used only on F6F-5N night fighters, of which some were armed with for 20-mm cannons. These night fighters were also equipped with the AN/APS-6 radar in the right wing housing.



Carefully read instruction sheet before assembling. When you use glue or paint, do not use near open flame and use in well ventilated room. Keep out of reach of small children. Children must not be allowed to suck any part, or pull vinyl bag over the head.



Před započatím stavby si pečlivě prostudujte stavební návod. Při používání barev a lepidel pracujte v dobře větrané místnosti. Lepidla ani barvy nepoužívejte v blízkosti otevřeného ohně. Model není určen malým dětem, mohlo by dojít k požití drobných dílů.

## INSTRUCTION SIGNS \* INSTR. SYMBOLS \* INSTRUKTION SINNBILDEN \* SYMBOLES \* 記号の説明



OPTIONAL  
VOLBA



BEND  
OHNOU



SAND  
BROUSIT



OPEN HOLE  
VYVRTAT OTVOR



SYMETRICAL ASSEMBLY  
SYMETRICKÁ MONTÁŽ



REMOVE  
ODŘÍZNOUT



REVERSE SIDE  
OTOČIT



APPLY EDUARD MASK  
AND PAINT  
POUŽÍT EDUARD MASK  
NABARVIT

## PARTS



## DÍLY



## TEILE



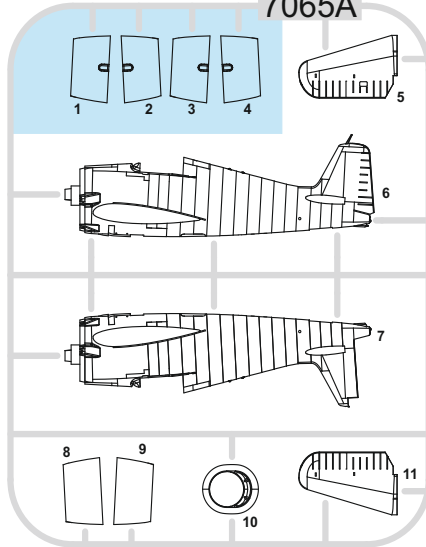
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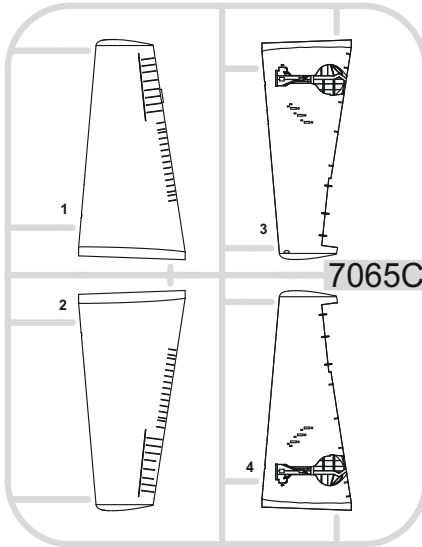
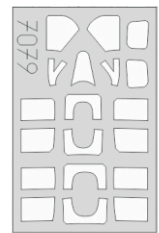
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## PLASTIC PARTS

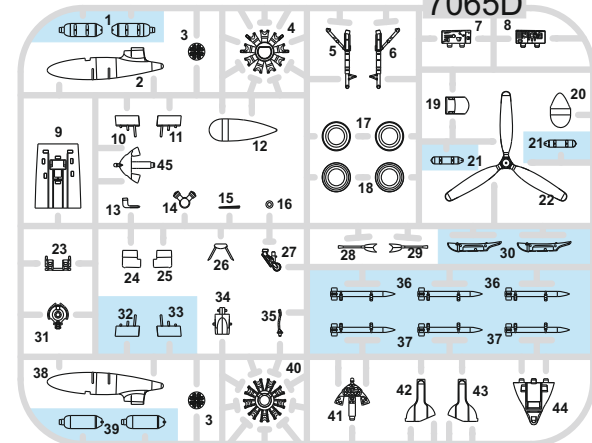
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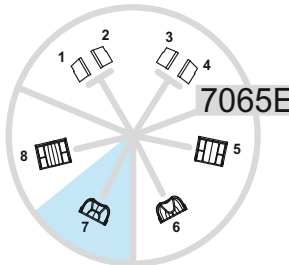
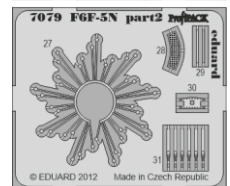
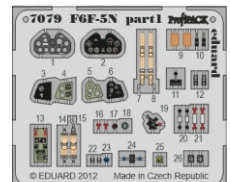
C&gt;

eduard  
MASK

D&gt;



E&gt;

PE - PHOTO ETCHED  
DETAIL PARTS

-Parts not for use. -Teile werden nicht verwendet. -Piecses a ne pas'utiliser. -Tyto díly nepoužívejte při stavbě. -

使用しない部品

## COLOURS



## BARVY



## FARBEN



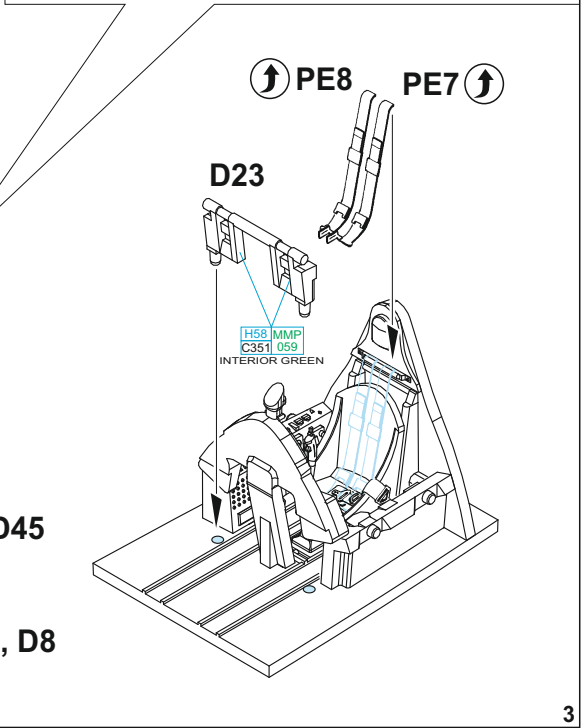
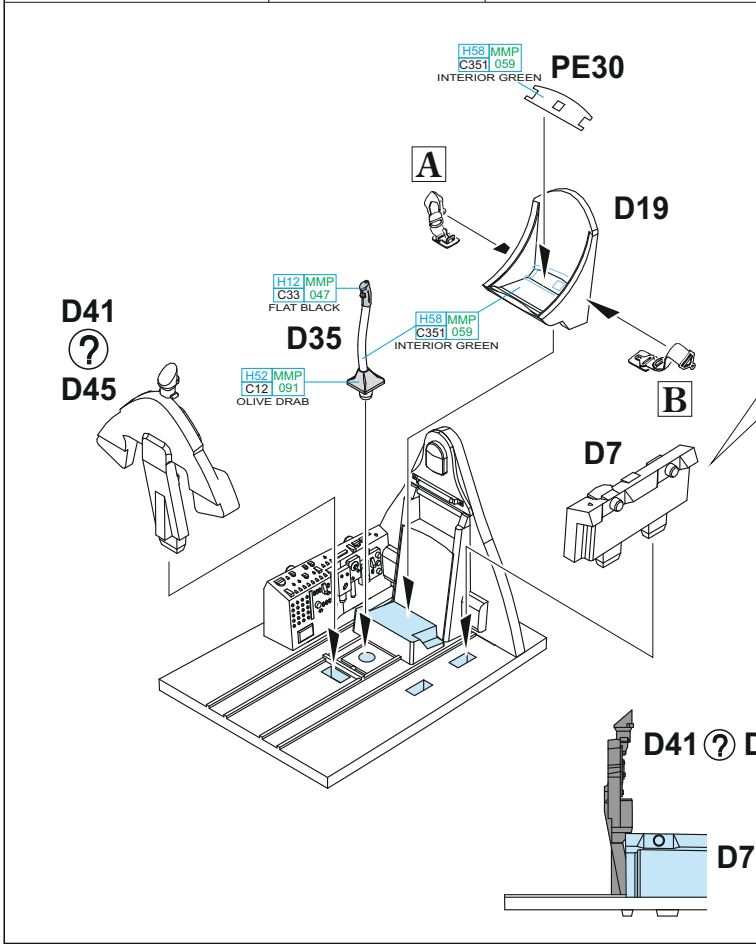
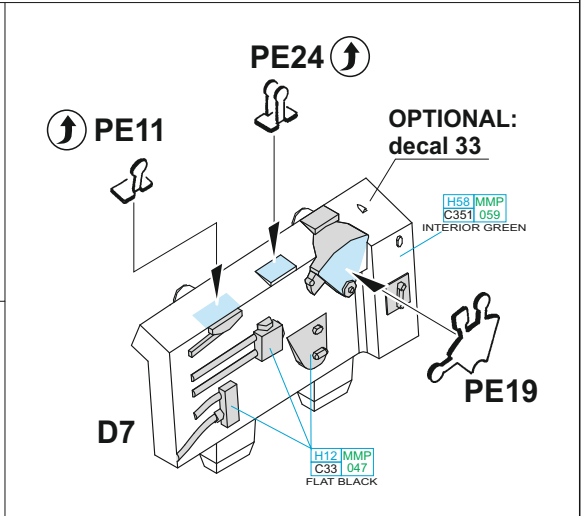
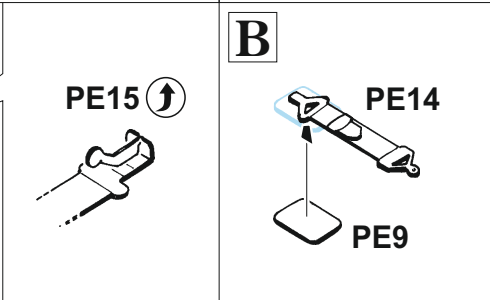
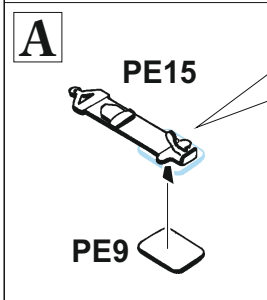
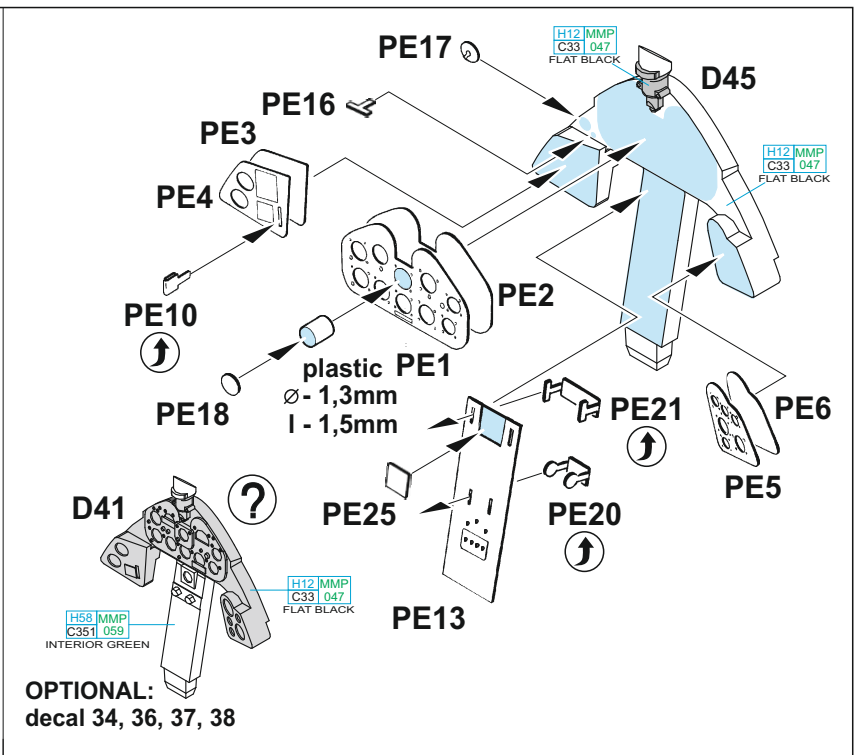
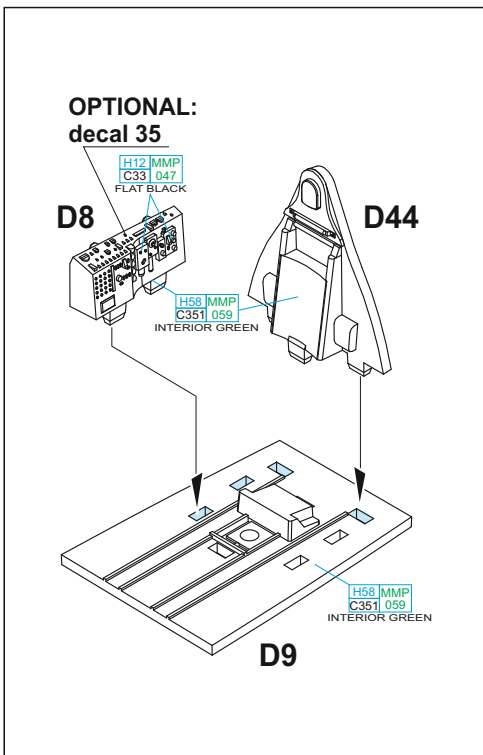
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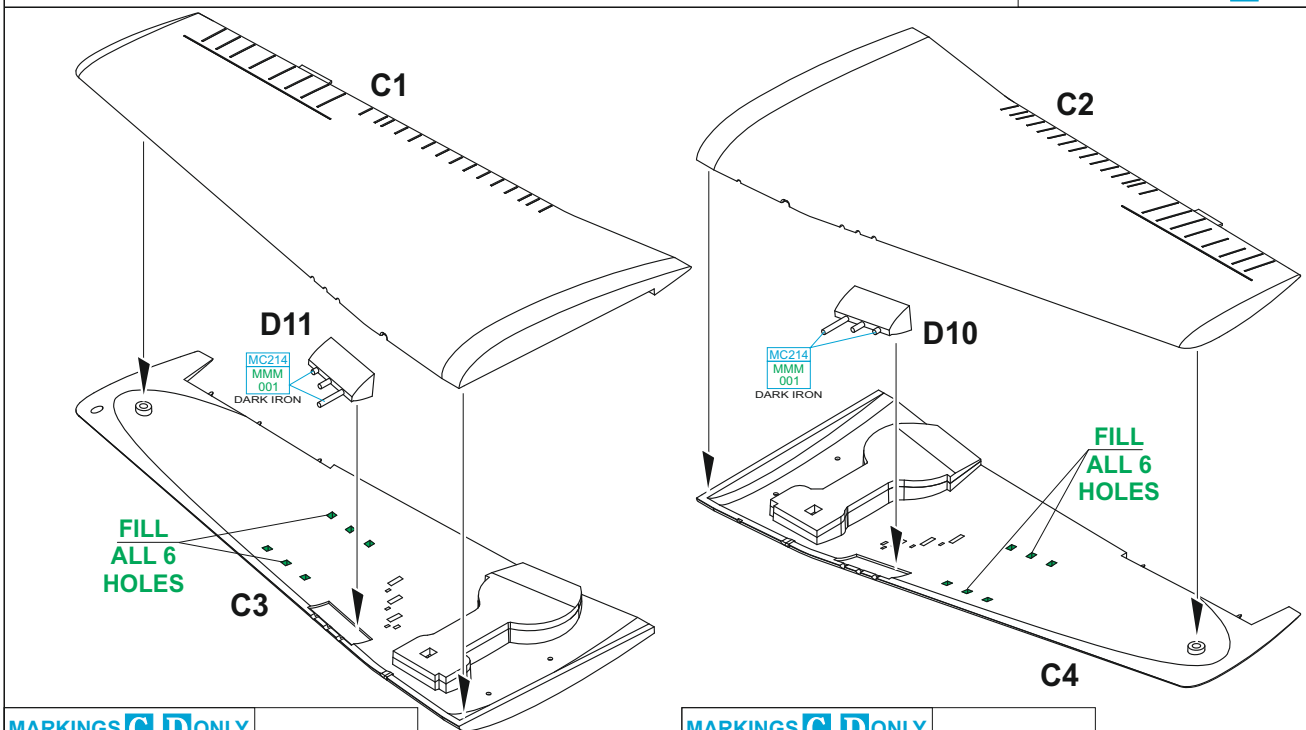
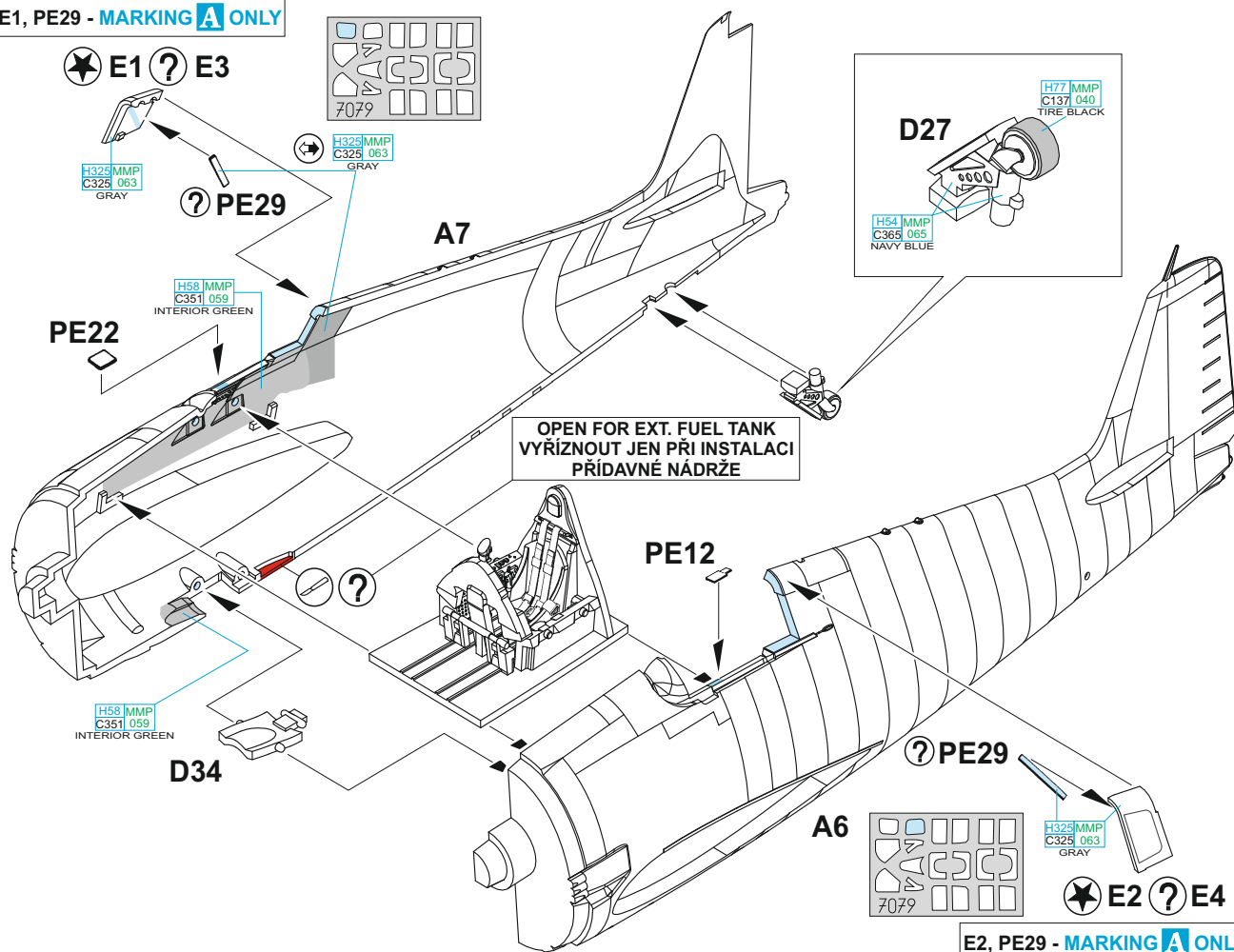
## 色

GSI Creos (GUNZE)		MISSION MODELS	
AQUEOUS	Mr.COLOR	PAINTS	
<a href="#">H12</a>	<a href="#">C33</a>	<a href="#">MMP-047</a>	FLAT BLACK
<a href="#">H13</a>	<a href="#">C3</a>	<a href="#">MMP-003</a>	FLAT RED
<a href="#">H52</a>	<a href="#">C12</a>	<a href="#">MMP-091</a>	OLIVE DRAB
<a href="#">H54</a>	<a href="#">C365</a>	<a href="#">MMP-065</a>	NAVY BLUE
<a href="#">H58</a>	<a href="#">C351</a>	<a href="#">MMP-059</a>	INTERIOR GREEN
<a href="#">H77</a>	<a href="#">C137</a>	<a href="#">MMP-040</a>	TIRE BLACK
<a href="#">H306</a>	<a href="#">C306</a>	<a href="#">MMP-118</a>	MEDIUM GRAY

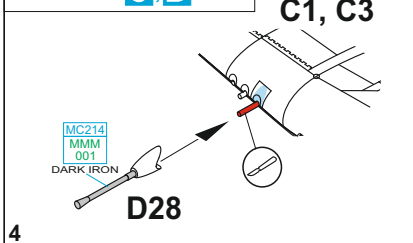
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AQUEOUS	Mr.COLOR	PAINTS	
<a href="#">H316</a>	<a href="#">C316</a>	<a href="#">MMP-104</a>	WHITE
<a href="#">H325</a>	<a href="#">C325</a>	<a href="#">MMP-063</a>	GRAY
<a href="#">H329</a>	<a href="#">C329</a>	<a href="#">MMP-041</a>	YELLOW
	<a href="#">C344</a>		RUST
Mr.METAL COLOR		METALLICS	
<a href="#">MC214</a>		<a href="#">MMM-001</a>	DARK IRON
<a href="#">MC218</a>		<a href="#">MMM-003</a>	ALUMINIUM



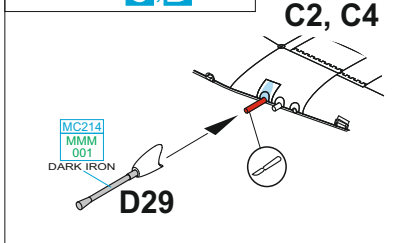
E1, PE29 - MARKING **A** ONLY



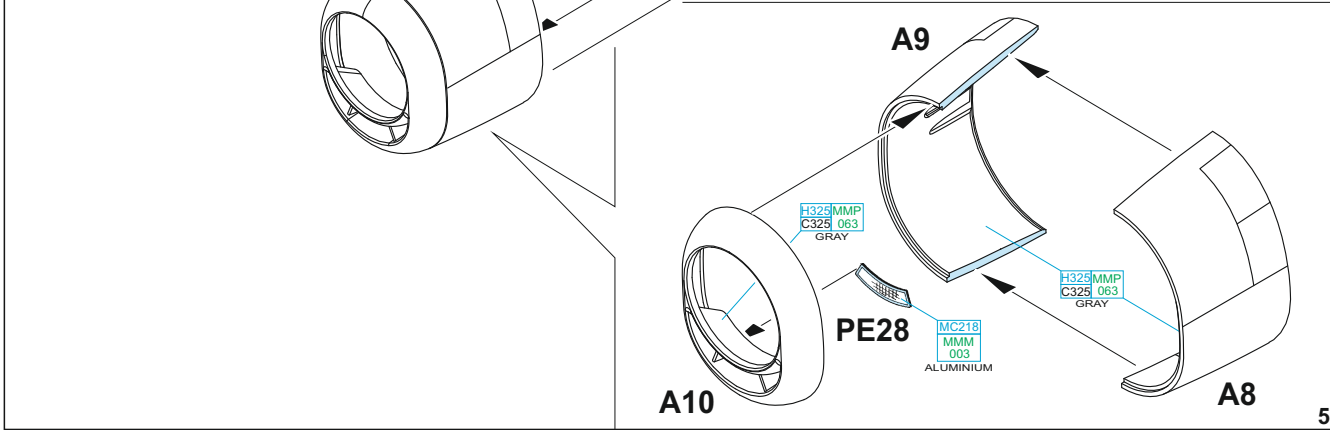
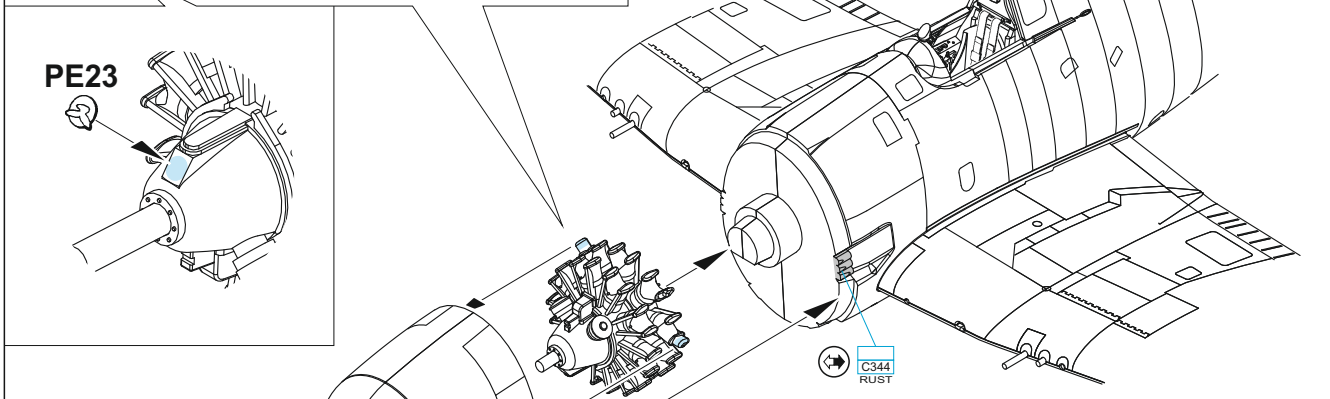
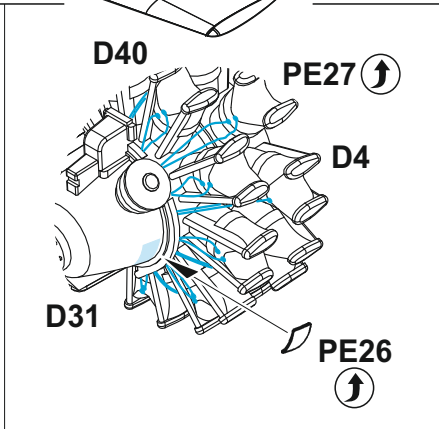
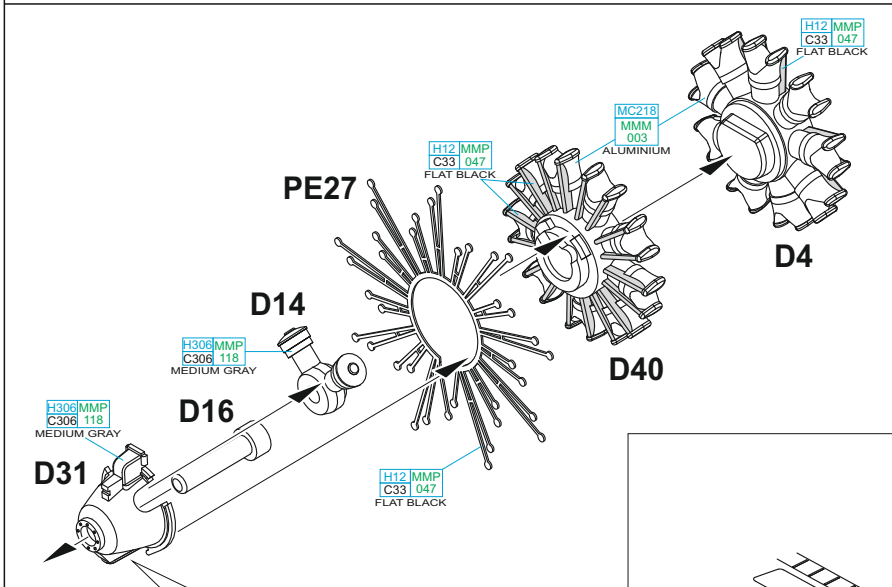
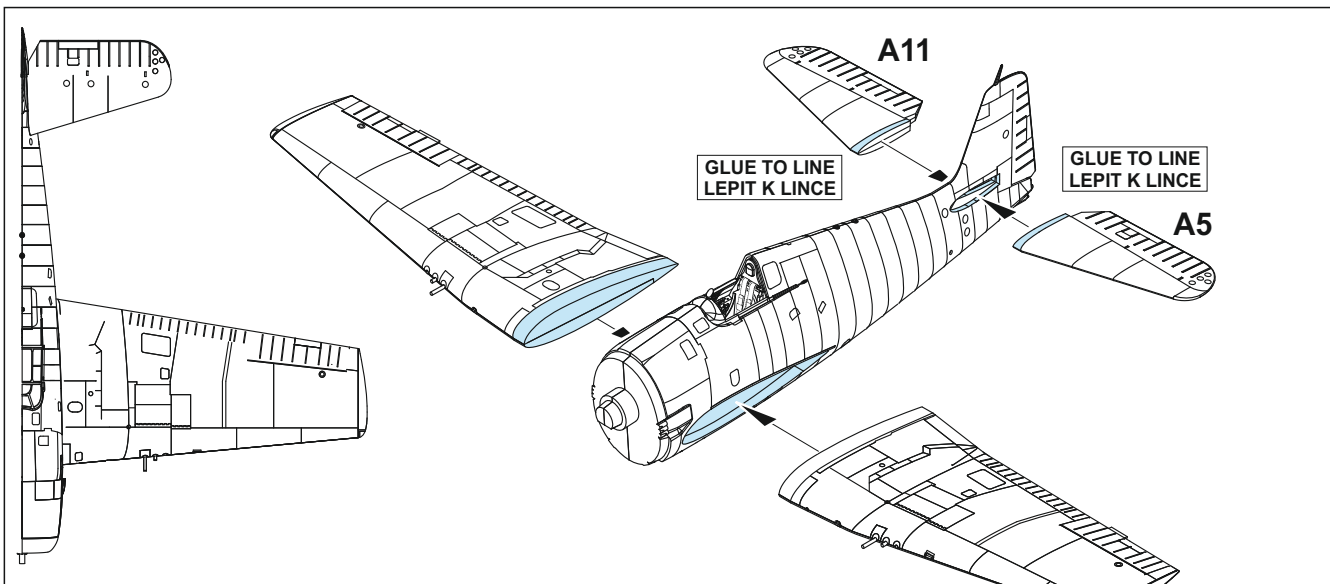
MARKINGS **C, D** ONLY

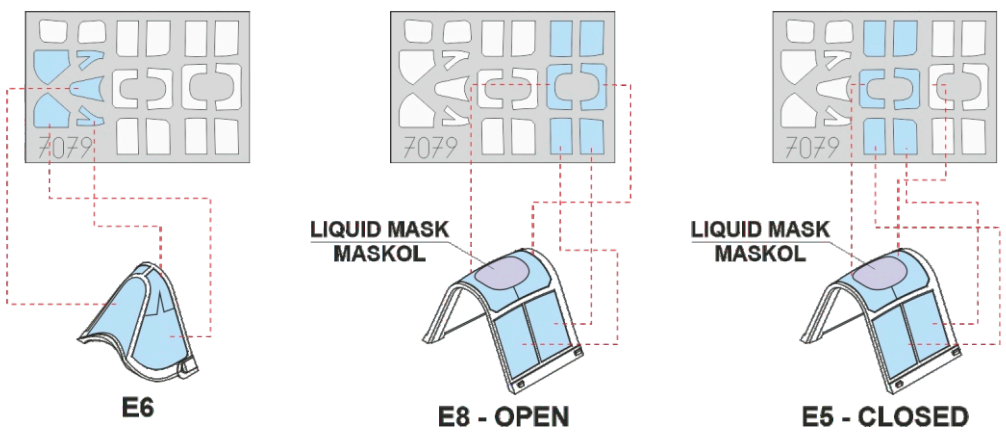
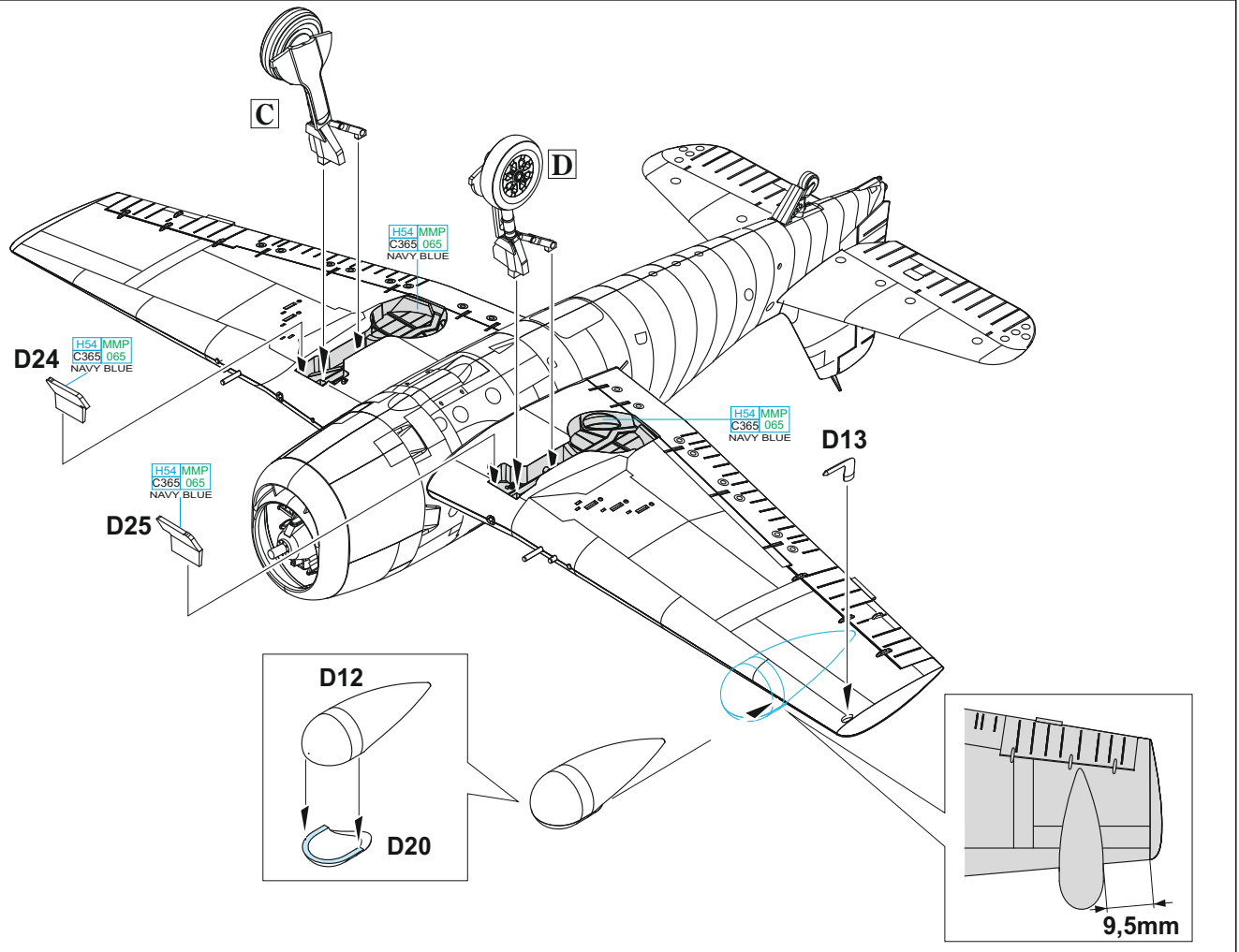
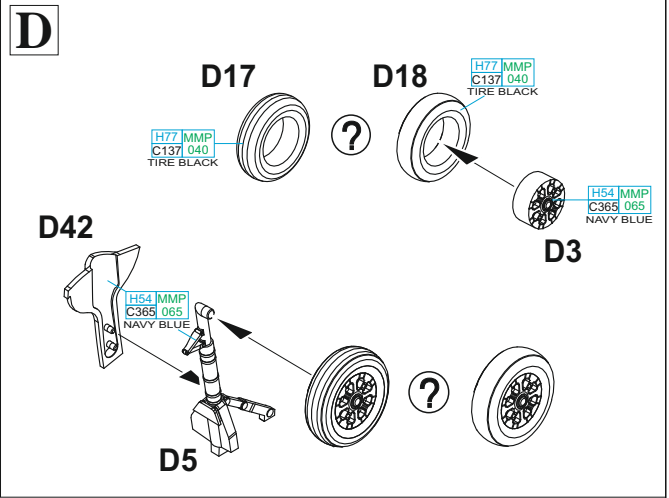
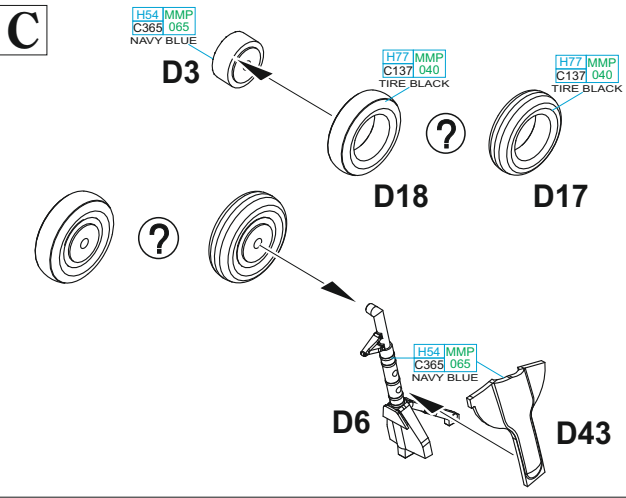


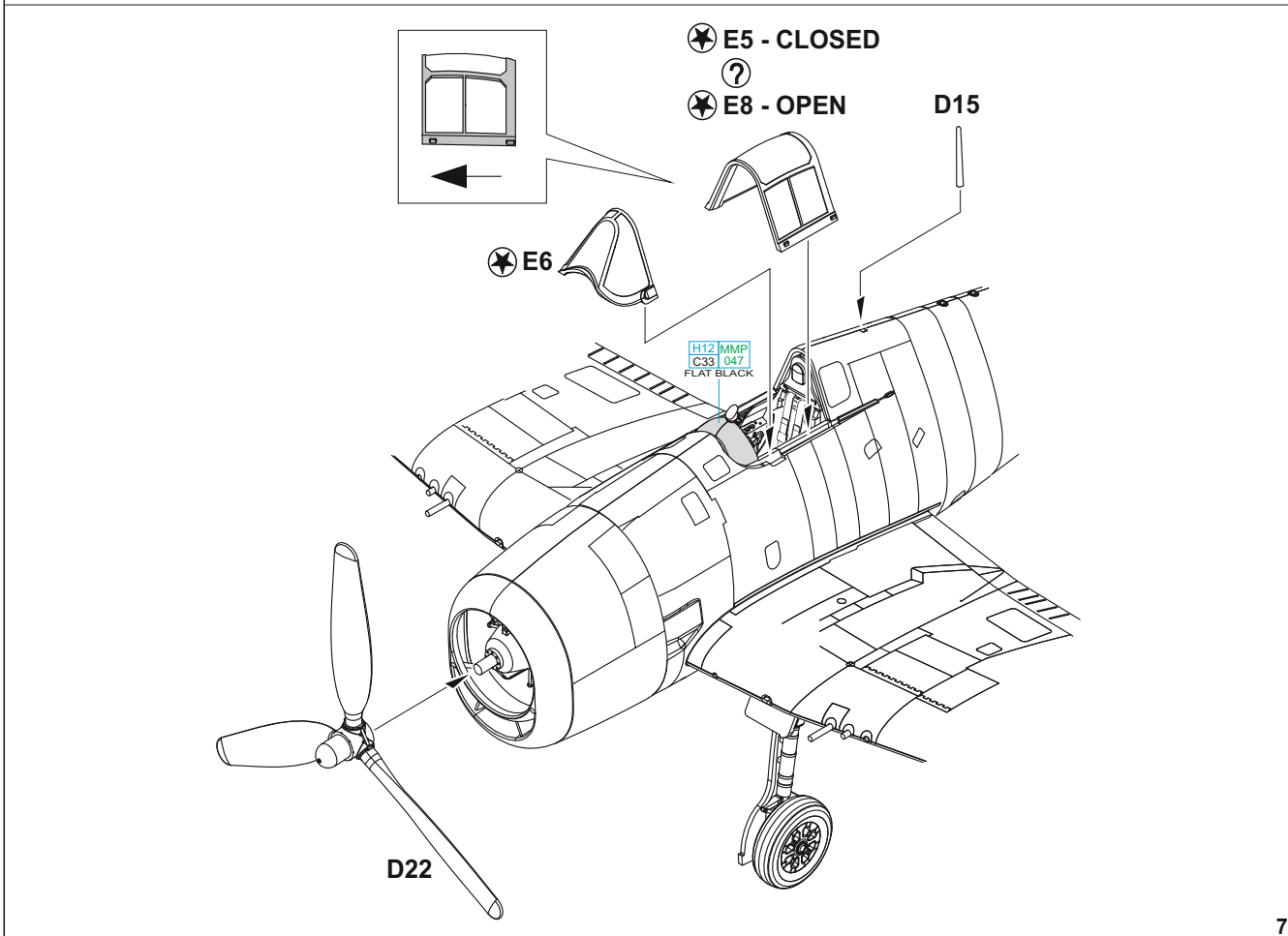
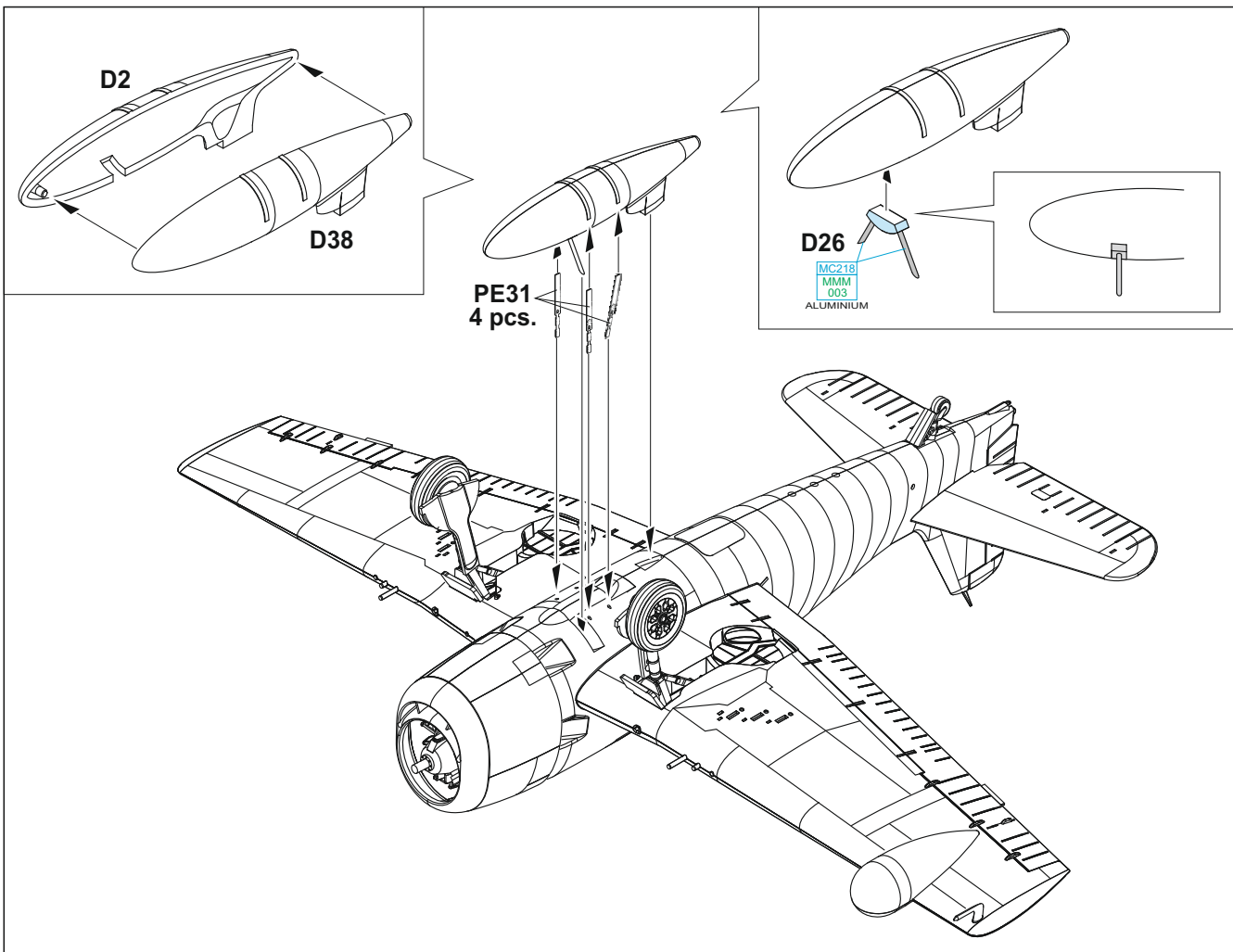
MARKINGS **C, D** ONLY





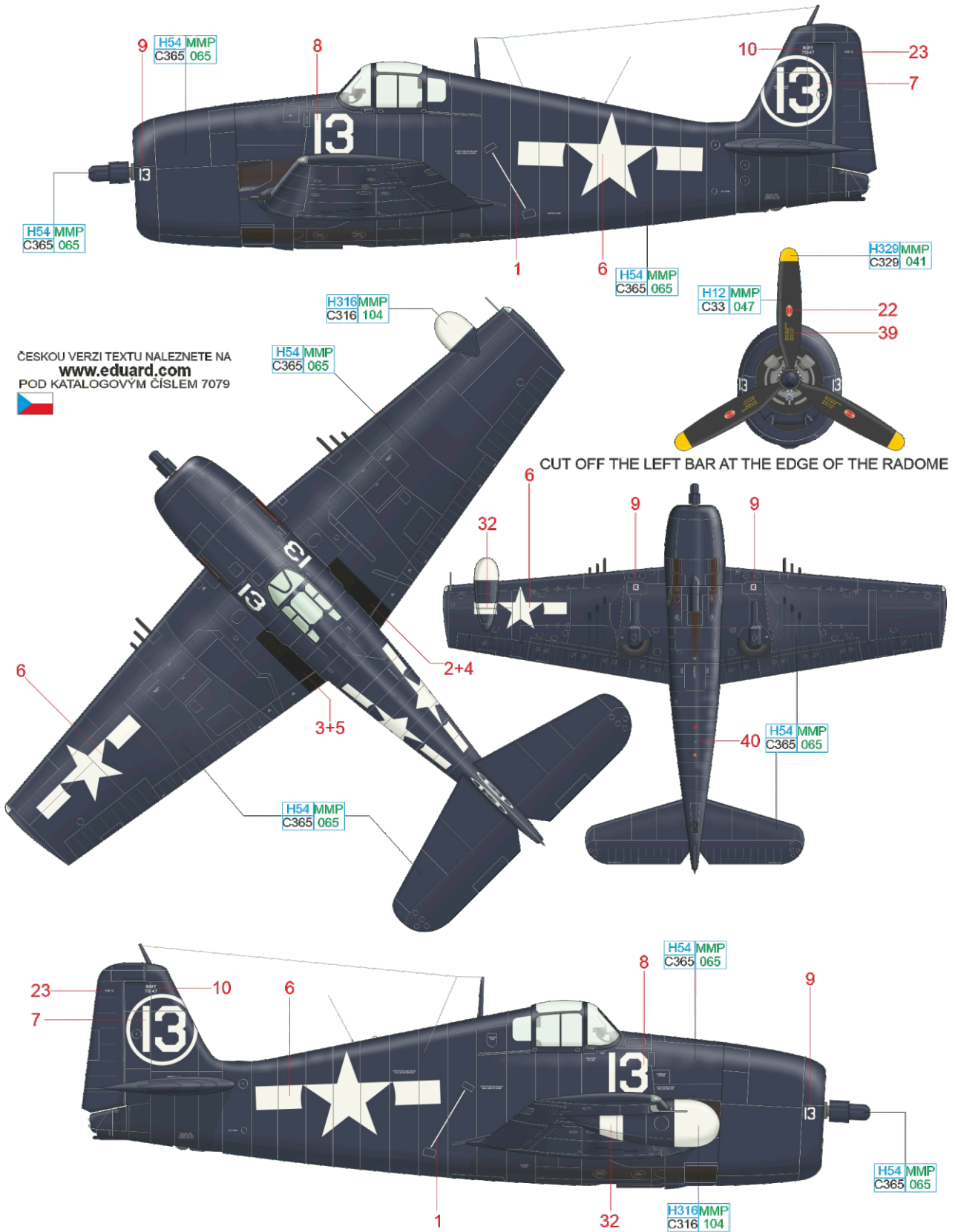






# A F6F-5N, Lt. William E. Henry, VF(N)-41, USS Independence (CVL-22), September 1944

This aircraft was flown by Lt. William E. „Bill“ Henry, the most successful night fighter ace within US Navy. He was credited with 9.5 kills achieved during the period from September 1944 to January 1945. Three of his victims were four engine “Emily” flying boats. This F6F-5N was sprayed Glossy Sea Blue color and represents the standard late-war Navy camouflage scheme. The markings and the radar cover were painted white.



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CUT OFF THE LEFT BAR AT THE EDGE OF THE RADOME

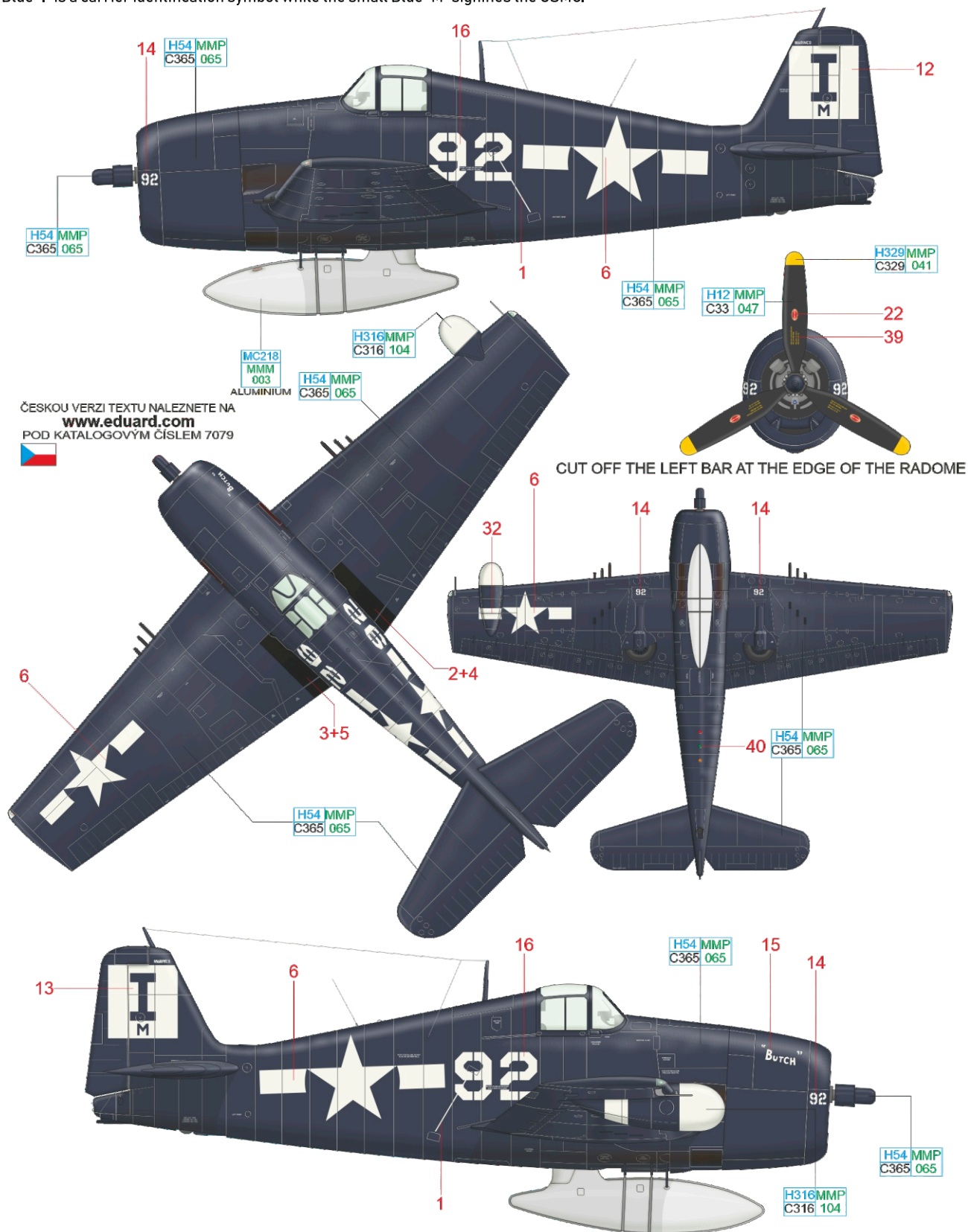
WHITE H316MMP C316 104    YELLOW H329MMP C329 041    NAVY BLUE H54MMP C365 065    BLACK H12MMP C33 047

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# B F6F-5N, VMF-511, USS Block Island (CVE-106), April 1945

The first aircraft carrier to have a US Marine Corps night fighter unit on board was USS Block Island (CVE-106). VMF-511 embarked on Block Island in March 1945, and was a mixed group of eight Corsairs, two photo-reconnaissance F6F-5P Hellcats and eight F6F-5N Hellcat night fighters. The squadron joined the Okinawa battle on May 10, 1945 and was consequently sent to the eastern coast of Borneo to support landing operations at Balikpapan. The first and only success came on July 3, 1945, when 1st Lt. Bruce Reuter shot down an E13A "Jake" floatplane. The Hellcat nicknamed "Butch" was one of eight VMF-511 Hellcat nightfighters aboard Block Island. The White block with Blue "I" is a carrier identification symbol while the small Blue "M" signifies the USMC.



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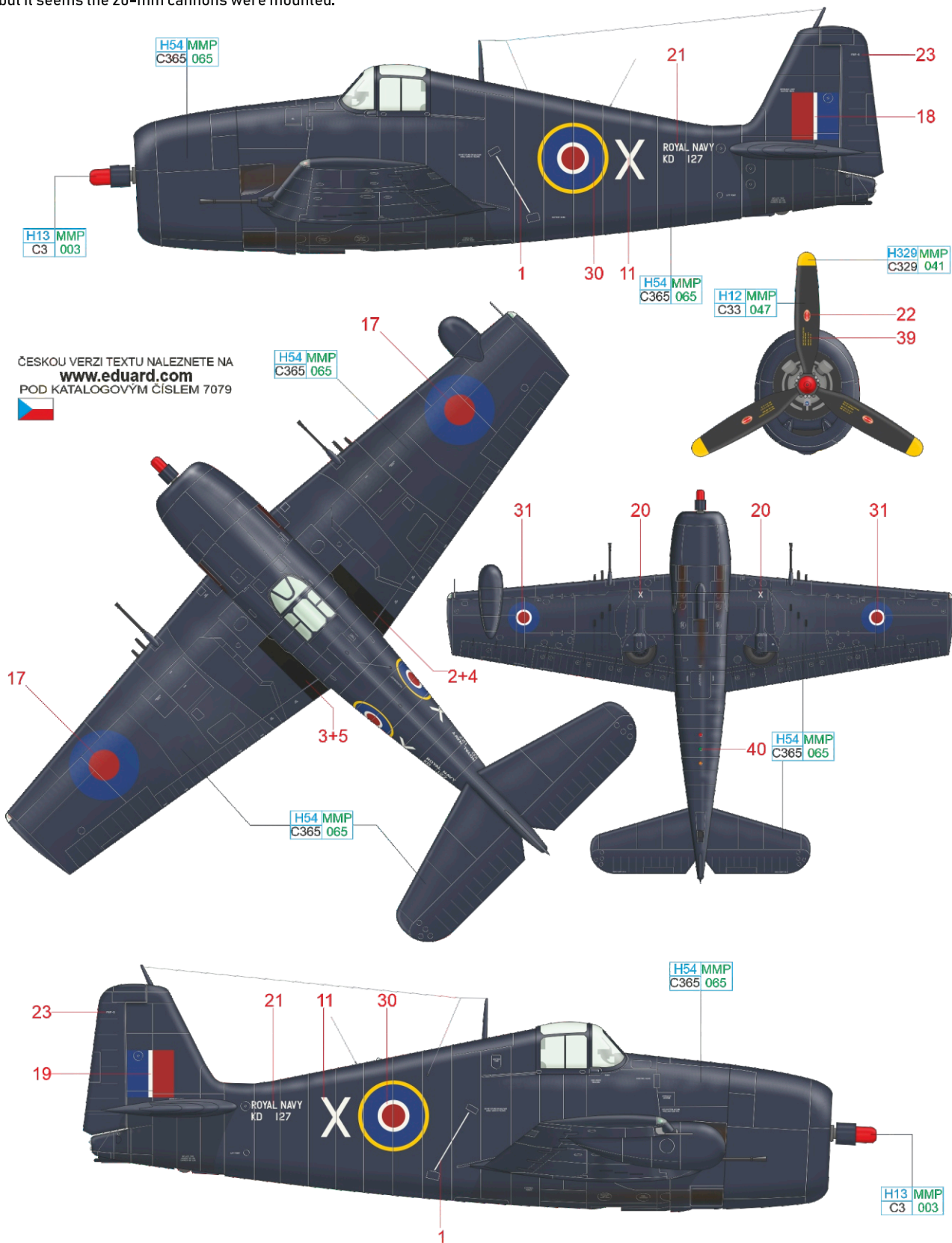


CUT OFF THE LEFT BAR AT THE EDGE OF THE RADOME

- WHITE H316MMP C316 104
- YELLOW H329MMP C329 041
- NAVY BLUE H54 MMP C365 065
- BLACK H12 MMP C33 047
- ALUMINIUM MC218 MMM 003

# C Hellcat NF Mk.II, No. 892 Naval Air Squadron, Drem Airbase, Great Britain, May – August 1945

No. 892 Naval Air Squadron was reformed in April 1945 as a night fighter squadron with 16 NF Mk.II Hellcats. After a short deployment onboard HMS Premier, the squadron was subsequently undertaking night fighter training at Drem Airbase till the end of the WWII. The Hellcat depicted was built for the US Navy and bore the BuNo. 79015. It was purchased then by the Royal Navy and coded KD 127. The British roundels were applied on the original US camouflage scheme. The wing armament option is not clear from the reference photo, but it seems the 20-mm cannons were mounted.



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- YELLOW H329 MMP C329 041
- NAVY BLUE H54 MMP C365 065
- BLACK H12 MMP C33 047
- RED H13 MMP C3 003

# D F6F-5N, BuNo. 78669, Maj. Bruce Porter, CO of VMF(N)-542, Yontan Airfield, Okinawa, May 1945

Hellcat BuNo. 78669 was the personal mount of five-kills ace Maj. Bruce Porter, Commanding Officer of VMF(N)-542. He inherited this F6F-5N from his predecessor. The Hellcat carried a big red heart and the white name "Millie Lou" on the nose. Porter ordered his ground crew to overpaint it immediately after his arrival and a big bottle of Schenley bourbon and "Black Death" in white overpainted the previous nose art. Porter downed three Zeros over the Solomons in June/July 1943 while serving with VMF-121. On June 15, 1945 he added two more kills to his tally, shooting down a Kawasaki Ki-45 "Nick" heavy fighter and a "Betty" bomber carrying an Ohka suicide rocket plane.



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CUT OFF THE LEFT BAR AT THE EDGE OF THE RADOME



