**Historie****Biber "German Midget Submarine"**

cz

Biber byl jednou ze zbraní vyvinutých během druhé světové války v období, kdy se situace na frontách obracela v neprospěch Německa. V roce 1943, kdy začalo být jasné, že dojde k invazi někde na atlantickém pobřeží Evropy, začaly být v Německu vyvíjeny neortodoxní zbraně, které měly invazi zabránit. Vedle řiditelných torpéd Neger, Marder a Hai měly invazní flotilu zastavit i miniponorky Biber a Molch.

Ideový návrh Bibera pocházel od korvetního kapitána Bartelse. V továrně Flanderwerke v Lübecku, kde byly postaveny prototypy a rozjela se sériová výroba, vývoj vedl Hermann Bunte. Bartels byl údajně ovlivněn ukořistěnou britskou miniponorkou Welmann W46. Miniponorka Biber měla výtlač 6,6 tuny. Na hladině ji poháněl automobilový motor Opel Blitz a pod hladinou elektromotor GL231 firmy SSW. Potopit se mohlo do hloubky 20m, nouzově do 30 metrů. Výzbroj tvořila dvě torpéda G7e nebo miny. Konstrukce byla tak malá, že byl Biber jednomístný. I tak neměl řidič, sedící ve věži mnoho pracovního prostoru.

Prototyp Bibera, nazvaný Adam byl testován na vodě od 29. března 1944. Ze začátku byly testy neúspěšné, ale po odladění nedostatků svolil K. Dönnitz k výrobě dalších čtyř prototypů a později k sériové výrobě. Ta dala celkem 324 kusů Bibera, na výrobě se podílely Flanderwerke, Ansaldo a Klöckner-Humboldt-Deutz.

Bibery byly zařazeny do tzv. K-flotill, označených čísly 1 až 9. Nasazeny byly během invaze v Normandii v Lamanšském průlivu, v Severním moři v Norsku, v ústí Šeldy a také na řece Waal při útoku na most v Nijmegenu. Jejich úspěšnost jako nosičů torpéd byla velmi nízká. Více úspěšných Bibery dosáhly kladením min. Během nasazení se objevily problémy s pronikáním výfukových plynů do řidičovy sekce. Velká část ztracených Bibera připadá na tuto závadu. Vzhledem k malé výšce měli řidiči, orientující se podle kompasu, problémy s orientací a nalezení cíle. Navíc byl Biber, na hladině stabilní a obratný, pod hladinou nestabilní. I když bylo několik Bibera ukořistěno během války, nedočkaly se větších testů. Několik přeživších Bibera je vystavováno v muzeích.

**History**

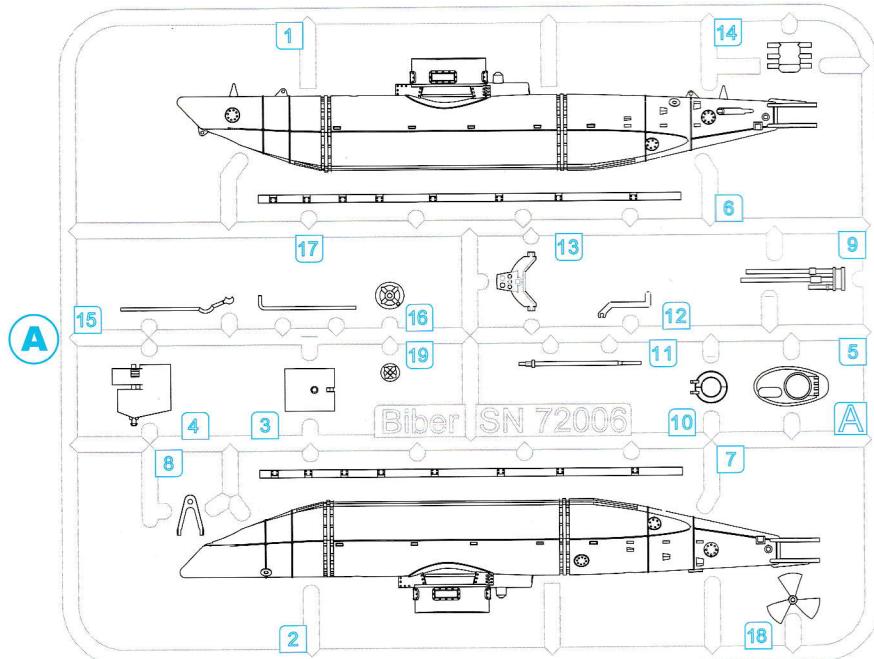
EN

The Biber was one of the weapon systems developed during the Second World War at the time when the situation for Nazi Germany was gradually becoming worse and worse on both fronts. In 1943 it became clear that the Allied invasion would take place soon somewhere on Europe's Atlantic coast so the German military began to seek and develop new and rather unorthodox types of weapons to avert the invasion. Along the Neger, Marder and Hai manned torpedoes, also the Biber and Molch midget submarines were to stop the invasion fleet.

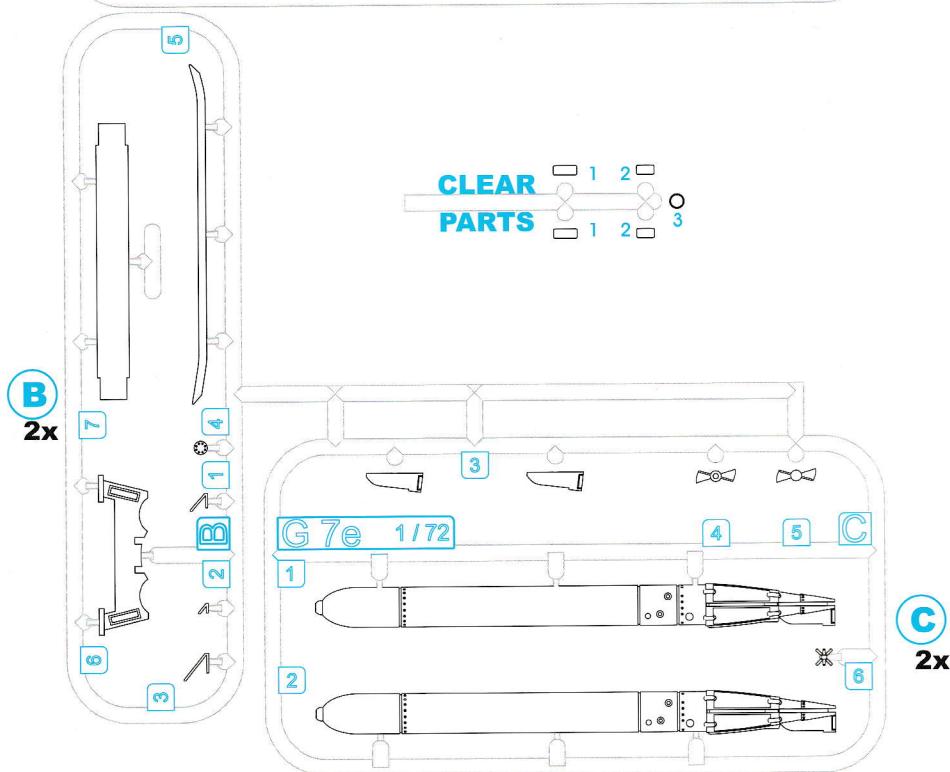
The original idea of the Biber sub came from Korvettenkapitän Robert Bartels and first prototypes were built and the production took place at Flanderwerke in Lübeck, the development being led by Hermann Bunte. Allegedly, Bartels was influenced by captured British Welman W46 midget sub. The Biber's displacement was 6.6 tonnes, on the surface it was powered by a 32 HP Otto Blitz petrol engine and while submerged, the propulsion was provided by a Siemens SSW GL231 electric motor. The Biber could submerge down to 20m, in emergency to 30m. It could carry either two G7e torpedoes or mines. The hull was so diminutive that its operator (only a crew of one was possible) did not have much space in the conning tower.

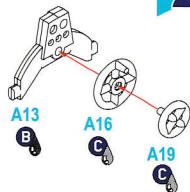
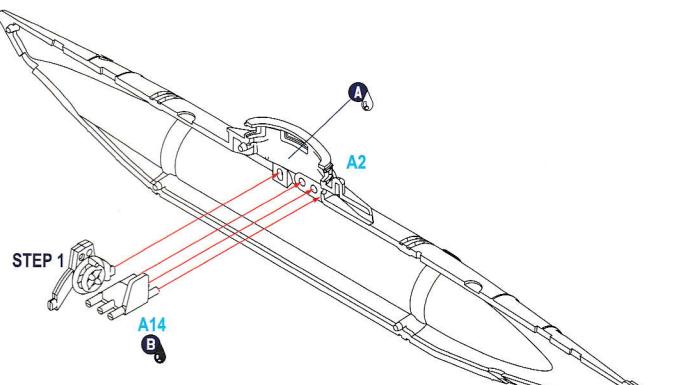
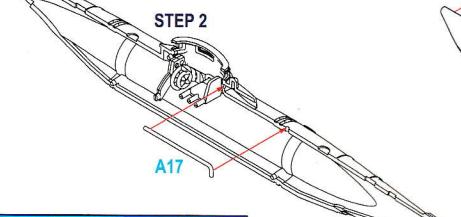
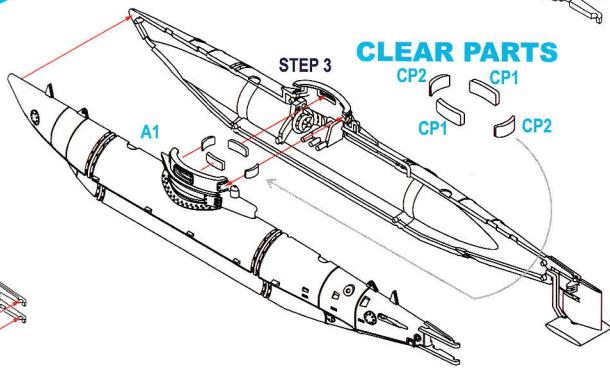
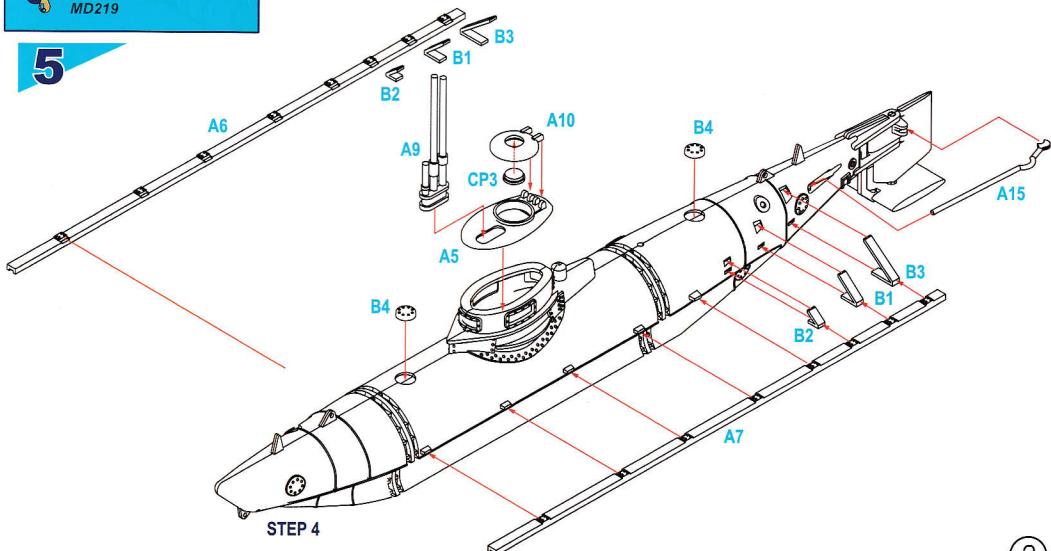
The Biber prototype, known also as Adam, was put to tests on 29 March 1944, though the tests were not quite successful and several improvements had to be implemented before German admiral Karl Dönitz approved building of four further prototype Bibers and later also the large scale production, which would give a total of 324 Bibers from Flanderwerke, Ansaldo and Klöckner-Humboldt-Deutz plants.

In service, Bibers were put into so-called K-flottilen numbered 1 to 9, which saw action in the English Channel during the Allied invasion, in the North Sea off Norway, in the Scheldt estuary and also in the river Waal during the attack on the Nijmegen bridge. Bibers did not enjoy much success in the torpedo-carrying role, mine-laying missions suited them better. Some trouble also occurred due to the exhaust fumes getting into the operator's station and many Bibers were lost just to this reason. The conning tower lacked in height causing the submarine pilot, who was equipped only with wrist compass, difficulties in finding his way to the target. Moreover, the Biber although being rather manoeuvrable and stable on the surface, was clumsy while submerged. Several Biber submarines were captured during the war, but the Allies did not seem to find interest in them and tested them only very briefly. Some of the surviving machines have been put to display in museums.

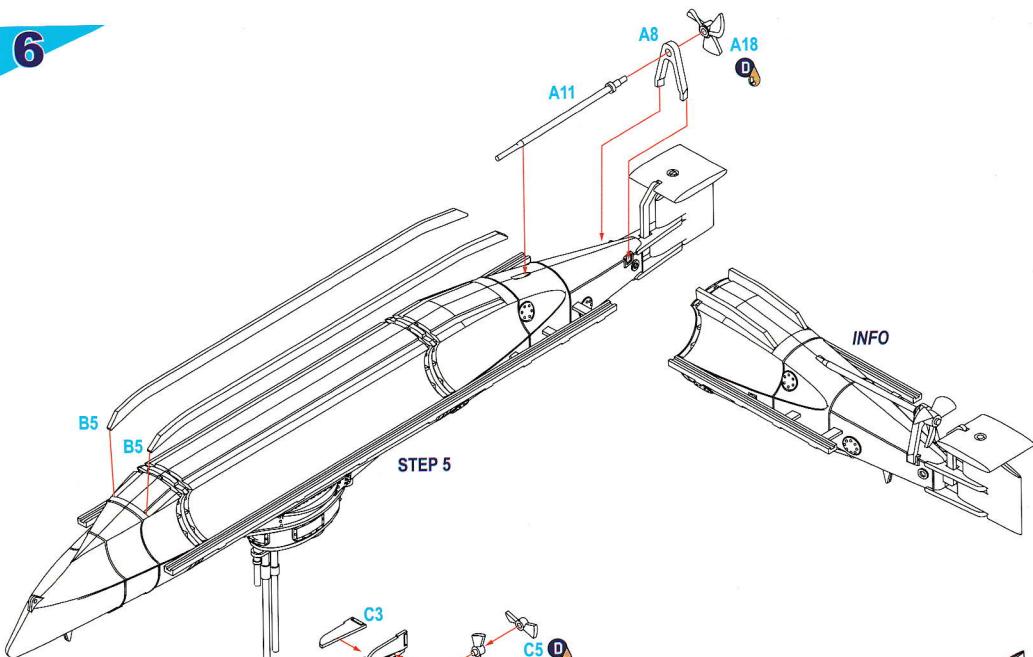


**CLEAR PARTS**

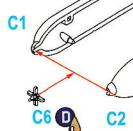


**1****2****3****4****5**

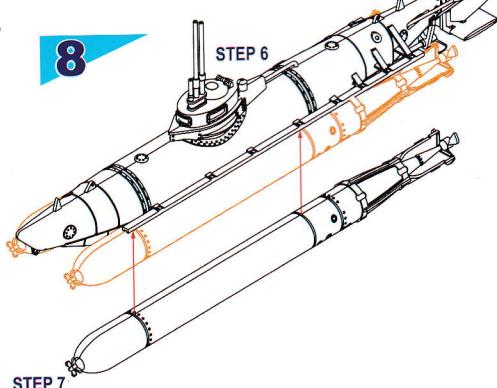
6



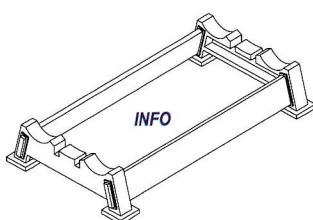
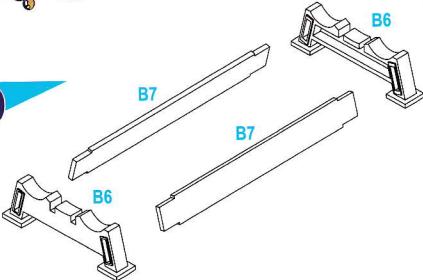
7 2x



8



9



4

SN72006 Biber "German Midget Submarine"

SYMBOLS



MOŽNOST VOLBY  
OPTIONAL  
NACH BELIEBEN  
OPTION



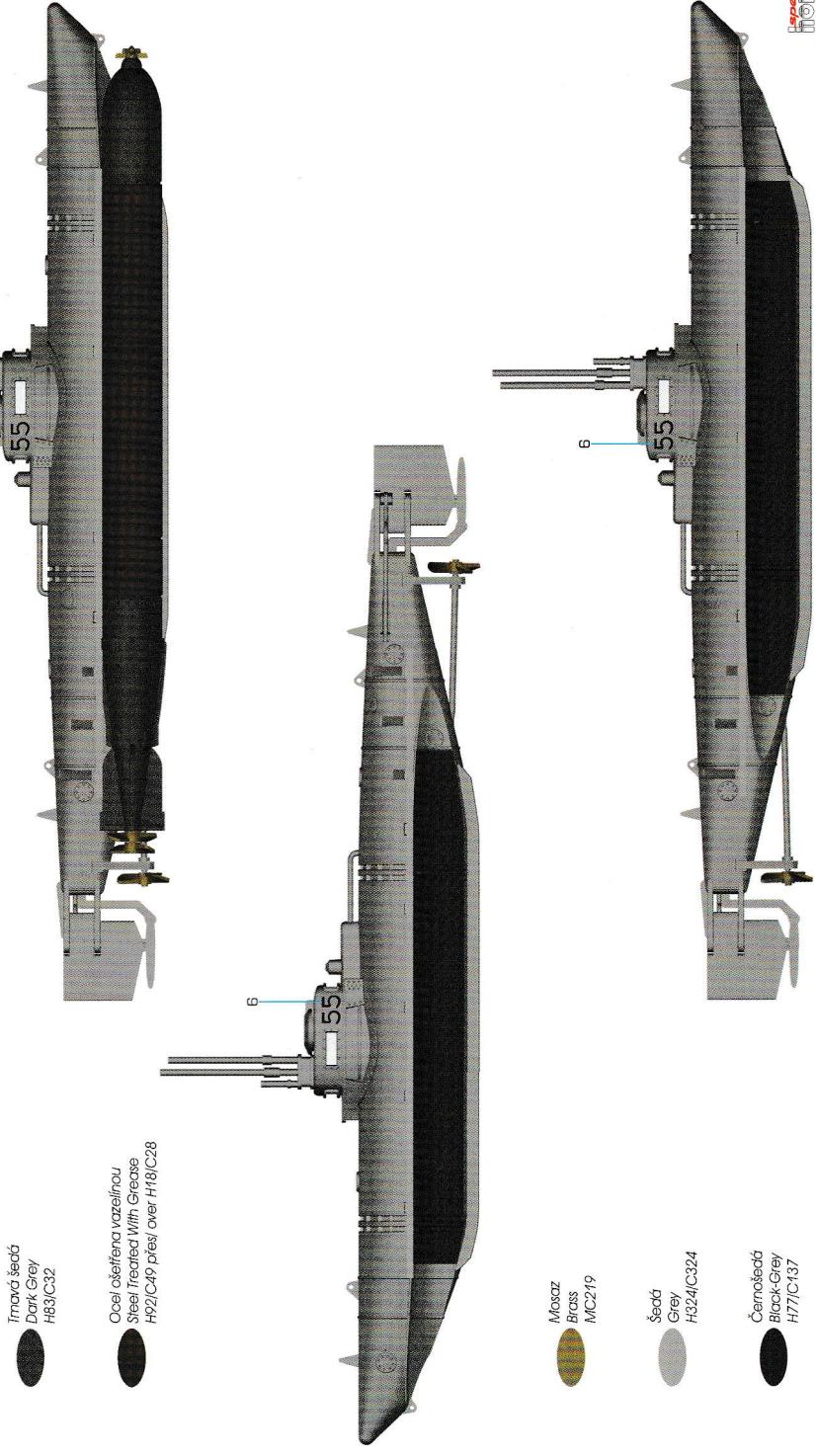
GSI  
colours code

NATRÍT  
COLOUR  
FARBEN  
PEINDRE

Biber č. 55, nezamáčk Flotille německého námořnictva, konec roku 1944.

Biber no. 55, unknown K-Flotille, Kriegsmarine (German Navy), late 1944.

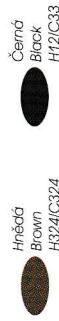
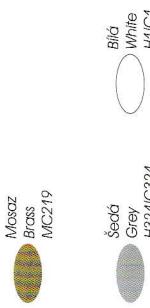
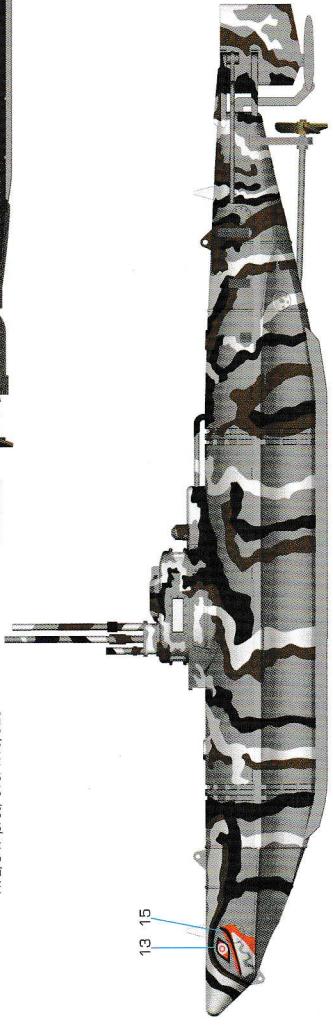
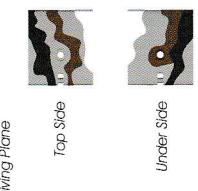
CAM. A



Biber, kamuflážovány/po hékalkalibru barev a ozdobený/farou, K-Flottille 263 (3. Biber-Flottille), základna Hóllen, Norsko, jaro 1945.

CAM. B

Biber wearing a four tone camouflage scheme and a shark mouth, K-Flottille 263 (3. Biber-Flottille), Hóllen base, Norway, Spring



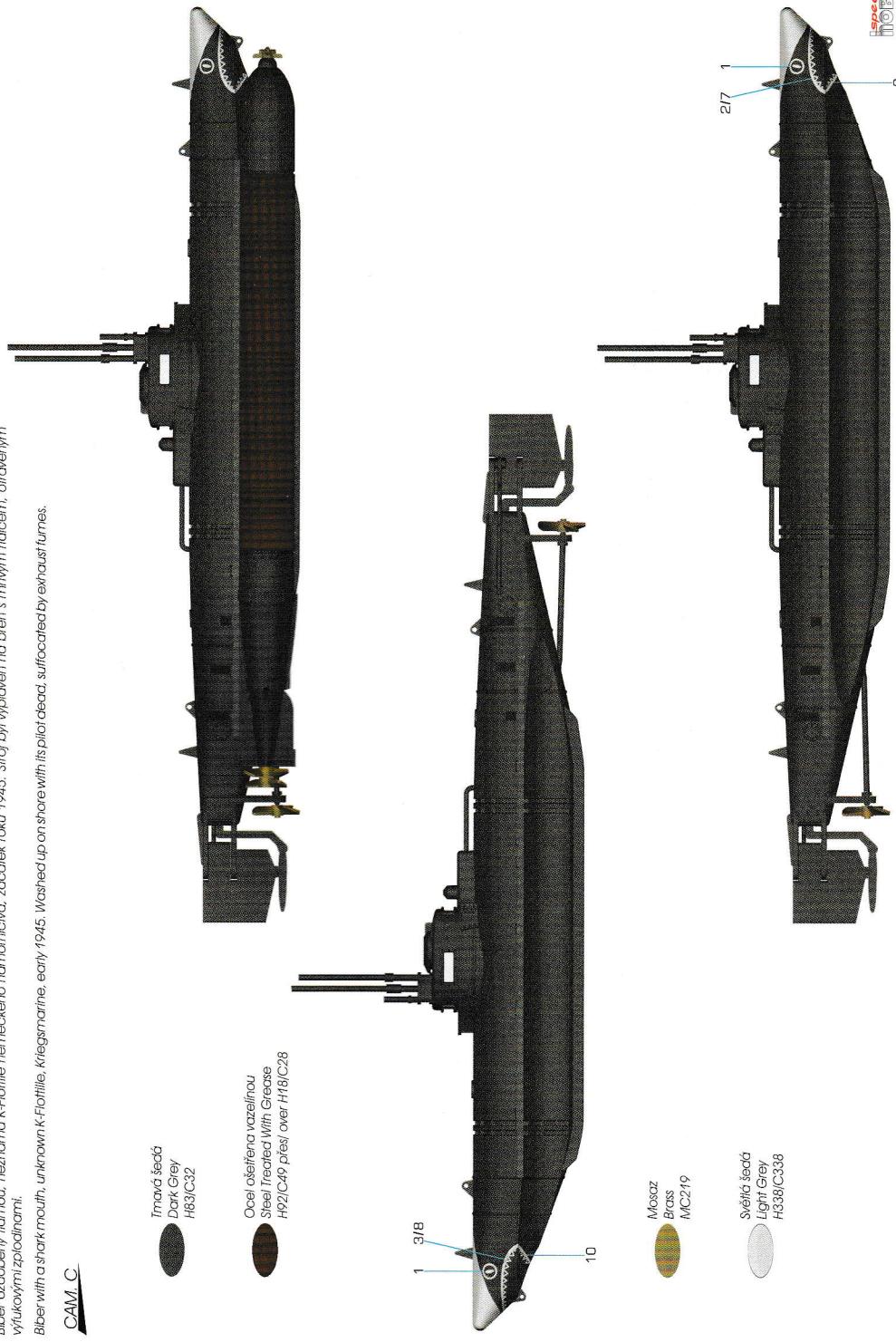
Bíber ozubený žralokem, neznámá K-Flotile německého námořnictva, začátek roku 1945. Stroj byl vyplaven na břeh s mrtvým řidičem, otráveným výfukovými zplodinami.

Bíber with a shark mouth, unknown K-Flotile, Kriegsmarine, early 1945. Washed up on shore with its pilot dead, suffocated by exhaust fumes.

CAM. C



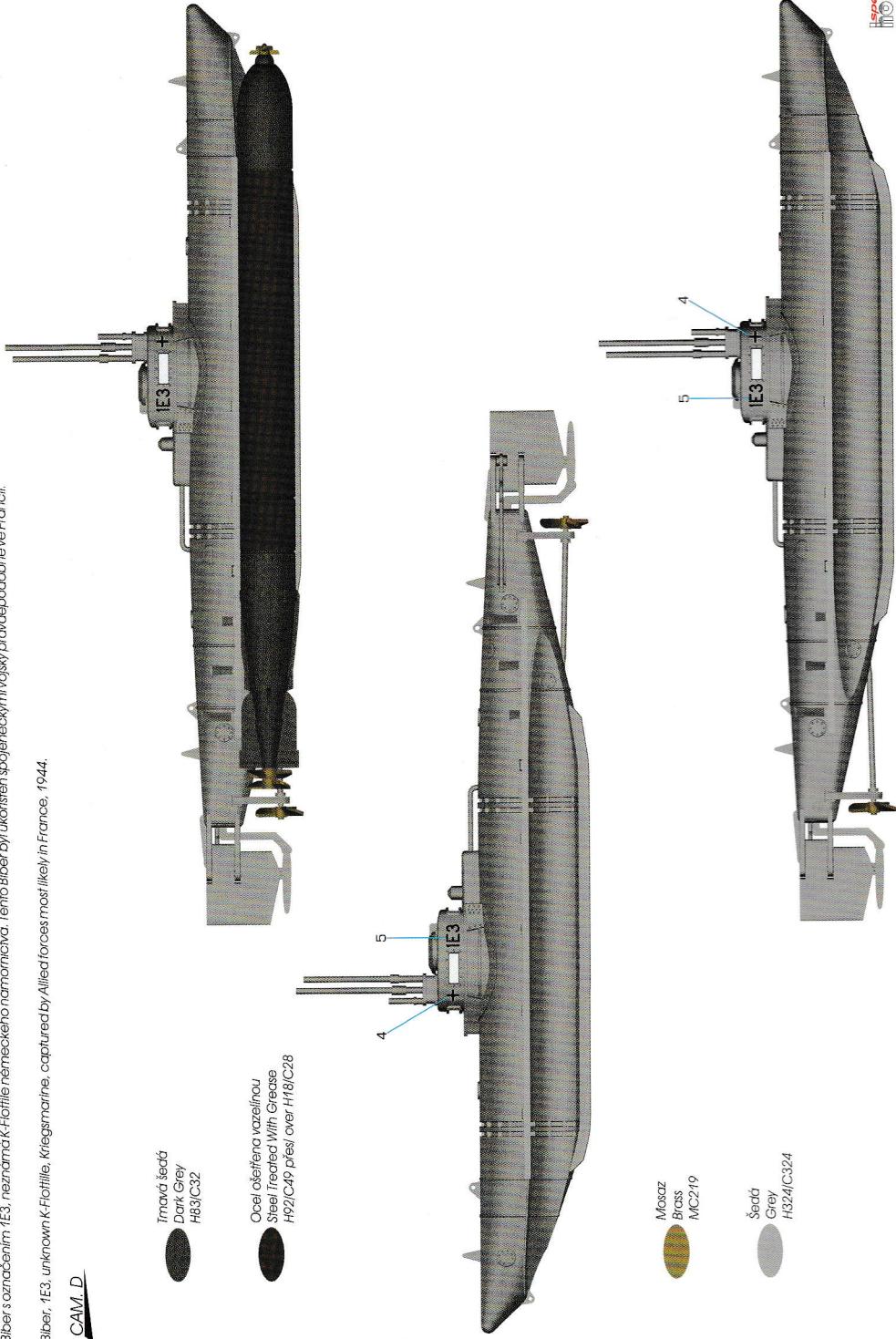
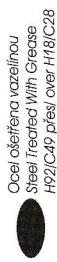
Ocel obšířena vazelínou  
Steel treated with Grease



Biber s označením 1E3, neznámá K-Flotila německého námořnictva. Tento Biber byl ukořistěn spojeneckými vojsky prováděapoštorné ve Francii.

Biber, 1E3, unknown K-Flotilla, Kriegsmarine, captured by Allied forces most likely in France, 1944.

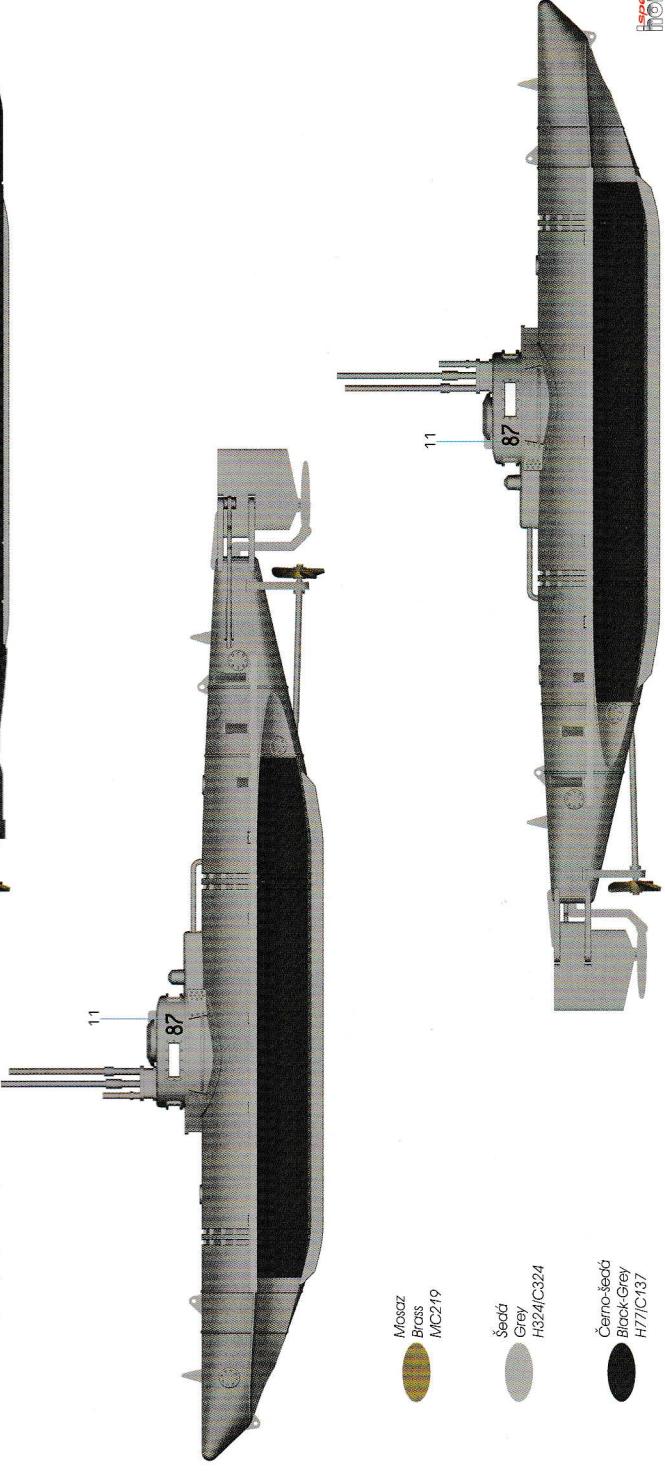
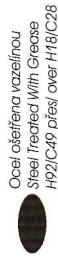
CAM. D



Biber s označením 87, neznámá K-Flotilla německého námořnictva, 1945.

Biber no. 87, unknown K-Flotilla, Kriegsmarine, 1945.

CAME



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GUNZE  
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SN72006 Biber "German Midget Submarine"

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**SA72003**



**A4/V2  
Rocket**

**SA72012**



**Meillerwagen "V-2 Transporter"**

**SA72014**



**A4/V2  
Prototypes**

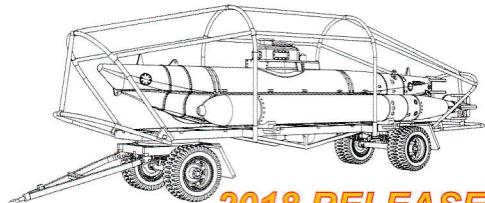
**SA72015**



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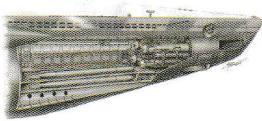
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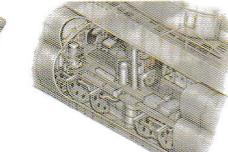


**THE BEST RESIN SETS FOR THE TYPE VIIC SUBMARINE (1/72 REVELL KIT)**

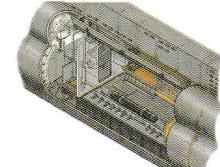
N72002 (1/72)  
U-boot VII Torpedo section



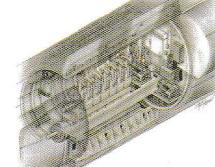
N72001 (1/72)  
U-boot VII Command section



N72005 (1/72)  
Officers' Ward Room and Galley



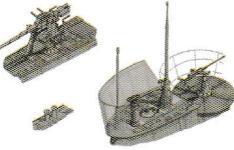
N72003 (1/72)  
U-boot VII Engine section



N72009 (1/72)  
U-boot VII Winch for loading torpedoes



N72004 (1/72)  
U-boot VII Exterior set Part I - Turret



N72008 (1/72)  
U-boot VII Winding platform  
(2 chute version)



N72007 (1/72)  
U-boot VII Winch for  
loading torpedoes on sea



**FIGURES & OTHER ACCESSORIES FOR SUBMARINES AND SHIPS**

F72160  
German deck crew  
Schnellboot S-100 (3 figures)



**1/72**  
scale

F72132  
U-VII armament crew In port  
3 figures



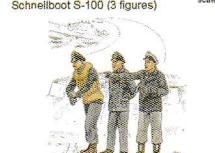
**1/72**  
scale

F72127  
U-VII crew at rest - part II  
(3 figures)



**1/72**  
scale

F72159  
Flying bridge crew  
Schnellboot S-100 (3 figures)



**1/72**  
scale

F72248  
U-boot U-IIX - Crew returning  
from a cruise part. I (3 fig) for Revell kit



**1/72**  
scale

F72185  
U-VII Atlantic version  
Gun-Crew for 3.7 cm Flak (3 fig.)



**1/72**  
scale

F72131  
U-VII 88 mm cannon crew  
in action 3 figures



**1/72**  
scale

F72184  
U-VII Atlantic version  
Gun-Crew for 2 cm Flak (3 fig.)



**1/72**  
scale

F72118  
U-VII crew at rest - part I  
(3 figures)



**1/72**  
scale

F72133  
U-VII crew on sentry  
3 figures



**1/72**  
scale

F72250  
U-boot U-IIX - Crew in Raincoats  
(3 fig) for Revell kit



**1/72**  
scale

F72116  
U-VII crew (guard with binoculars)  
(3 figures)



**1/72**  
scale

F72128  
Provision set for field  
kitchen



**1/72**  
scale

F72249  
U-boot U-IIX - Crew returning  
from a cruise part. II (3 fig) for Revell kit



**1/72**  
scale

F72117  
U-VII crew (provision)  
(3 figures)



**1/72**  
scale

ML80290

**COMMAND BOAT-LAUNCH  
(Kommandantenboot)**



**1/72**  
scale

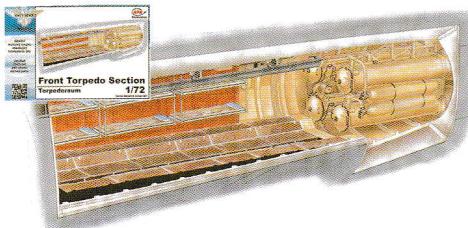
ARTMASTER

Designed by ARTMASTER



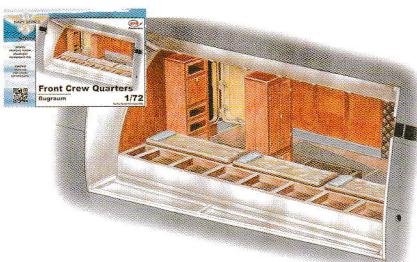
## THE BEST RESIN SETS FOR THE TYP IXC SUBMARINE (1/72 REVELL KIT)

### N72011 – U-Boot typ IX Front Torpedo Section



This highly detailed set covers the front torpedo section with crew bunks. The set contains 2 torpedoes, 6 hammocks, 4 closed torpedo tubes, 2 watertight bulkheads, torpedo loading shaft with watertight hatch and floor. This set is intended for the new Revell 1/72 scale U-boot typ IXC.

### N72015 – U-Boot typ IX Front Crew Quarters



This highly detailed set covers the front crew quarters section. The set contains 3 bunks, personal lockers, watertight bulkhead with sealed doors, watertight bulkhead with manhole hatch and floor. This set is intended for the new Revell 1/72 scale U-boot typ IXC.

### N72022 – U-Boot typ IX Galley



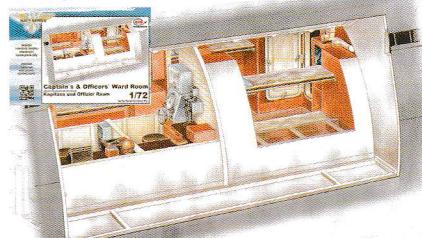
This highly detailed set covers the submarine's galley. The set contains of 2 watertight bulkheads with sealed doors, floor, ladder to the upper manhole with watertight hatch, stove, sink, fridge with compressor and vents, all necessary for the kitchen operation during the cruises. This set is intended for the new Revell 1/72 scale U-boot typ IXC.

### N72014 – U-Boot typ IX Command Section (Control room)



This highly detailed set covers the submarine's command section, the heart of the submarine. The set contains 2 watertight bulkheads with sealed doors, floor, ladder to the conning tower with watertight hatch, lower part of the periscope, controls for diving planes and powerplant. This set is intended for the new Revell 1/72 scale U-boot typ IXC.

### N72016 – U-Boot typ IX Captain's & Officers' Ward Rooms



This highly detailed set covers the Captain's and officers' ward rooms. The set contains of 3 ward rooms, 5 bunks, personal lockers and tables, watertight bulkhead with sealed door, bulkhead between particular ward rooms, watertight bulkhead with manhole hatch, operation room with sonar and radios and floor. This set is intended for the new Revell 1/72 scale U-boot typ IXC.

### List of resin kits for U-Boot typ IX (Revell kit)

- N72010 – U-Boot IX Opened Front and Rear Torpedo Muzzle Doors \*
- N72011 – U-Boot IX Front Torpedo Section
- N72012 – U-Boot IX Rear Torpedo Section& Crew bunks
- N72013 – U-Boot IX Exterior Set Part I \*
- N72014 – U-Boot IX Command Section (Control room)
- N72015 – U-Boot IX Front Crew Quarters
- N72016 – U-Boot IX Captain's & Officers' Ward Rooms
- N72017 – U-Boot IX Engine section for REV
- N72018 – U-Boot IX Weapon Set – Single 37 mm & 2 twin 20 mm AA cannons
- N72019 – U-Boot IX Torpedo Loading Cart on Sea\*
- N72020 – U-Boot IX Weapon Conversion set - new 105mm cannon and Flak Vierling (4x20 mm)
- N72021 – U-Boot IX Exterior Set Part II \*
- N72022 – U-Boot IX Galley
- N72023 – U-Boot IX Flak Vierling 20mm (4x20mm)\*

\*Coming soon