

FISCHKOPP
MODEL COMPANY

HURRICANE ENGINE SET

1/24 TRUMPETER

INSTRUCTION MANUAL

DESIGNED AND PRODUCED
IN GERMANY





The Rolls-Royce Merlin III

At the heart of many early Hawker Hurricane Mk Is was the Rolls-Royce Merlin III, one of the first major production versions of an engine family that would become synonymous with British aviation during the Second World War.

The Merlin III was a 27-litre, liquid-cooled, supercharged 60-degree V12, producing approximately 1,030 hp in its standard early service rating. Each cylinder employed four valves – two inlet and two exhaust – while twin ignition systems operated two spark plugs per cylinder. A mechanically driven, single-stage, single-speed centrifugal supercharger helped maintain engine performance as altitude increased.

The Merlin III also incorporated developments to the airscrew-shaft installation to accommodate the increasingly sophisticated variable-pitch and constant-speed propeller systems entering RAF service.

Its compact V12 architecture, extensive ancillary equipment, cooling and lubrication systems and associated pipework made the Merlin installation an integral part of the Hurricane's engineering rather than simply an engine placed within the airframe.

The Hawker Approach

The Hurricane represented an evolution rather than a complete break with Hawker tradition. Under Chief Designer Sydney Camm, the design evolved from concepts rooted in the earlier Hawker Fury family while embracing the requirements of a new generation of fighter aircraft.

Proven Hawker construction methods were combined with a cantilever low-wing monoplane layout, retractable undercarriage and the new Rolls-Royce Merlin engine. The result retained the robust mixed construction characteristic of Hawker's earlier aircraft while delivering the performance required of a modern fighter.

This evolutionary approach continued during production itself. Early Hurricane Mk Is featured fabric-covered wings, while later Mk I production introduced metal-covered wings together with increasingly advanced propeller installations.

The Hurricane was therefore neither an old-fashioned biplane construction nor a complete departure from what had come before. It was a carefully judged transition between two generations of aircraft design – combining established engineering practice with the technologies required for modern aerial combat.

TECHNICAL INFORMATION

DESIGNED FOR	TRUMPETER 02414
SCALE	1/24
MATERIAL	ABS-Like Resin
PARTS COUNT	17
RECOMMENDED GLUE	CA GLUE (GEL)
SKILL LEVEL	ADVANCED
PAINT REQUIRED	ACCORDING TO YOUR REFERENCE

PACKAGE CONTENTS

RESIN PARTS
INSTRUCTION MANUAL

NOTE

For best results, dry fit all parts before gluing. Clean resin parts in warm soapy water and allow to dry before assembly.

Use sharp tools and handle with care. This product is intended for adult scale modellers and collectors. Not suitable for children under 14 years. Contains small parts. Choking hazard. Keep out of reach of children.



LEGEND/SYMBOLS

These Symbols are used throughout the instructions manual to guide you through the assembly process. Please read them carefully before starting



ATTENTION

Pay close attention to this step



ASSEMBLY STEP

Follow the step number sequence



APPLY CA GLUE

Use gel CA glue



DO NOT GLUE

Do not apply glue when joining the parts



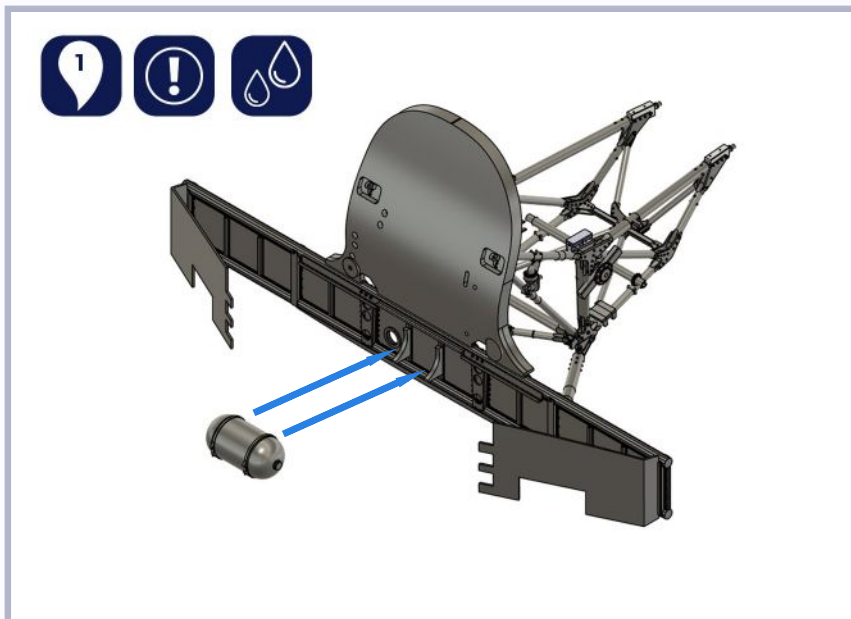
DETAIL VIEW

See detailed enlargement

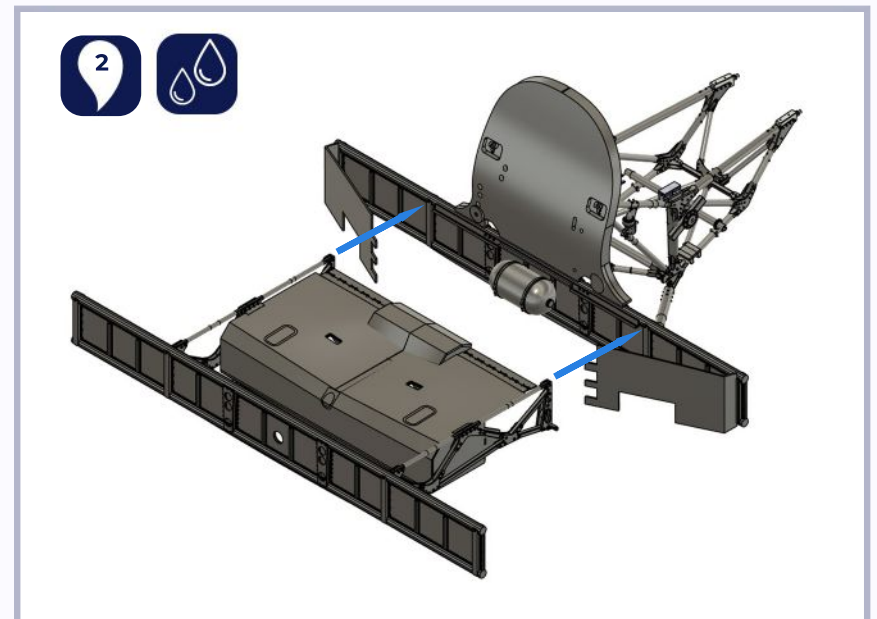


PAINT

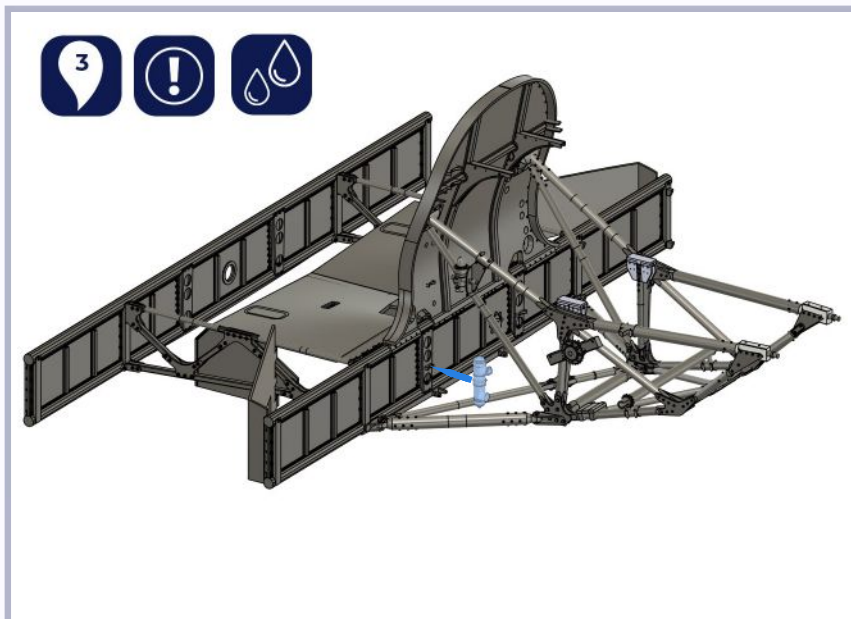
Paint this part as indicated



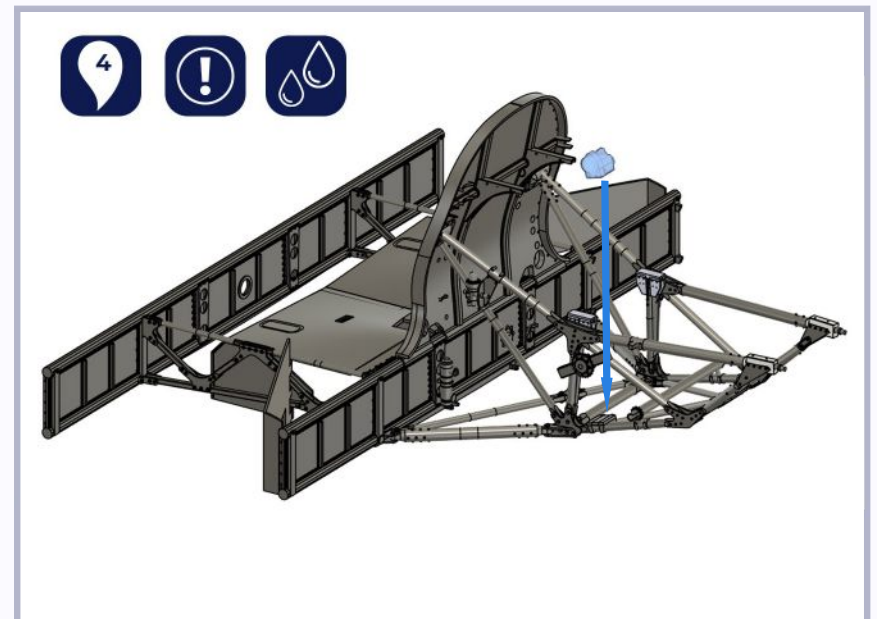
Install the Air Cylinder. Pay special attention to the clamps on the Air Cylinder when glueing it onto the brackets.



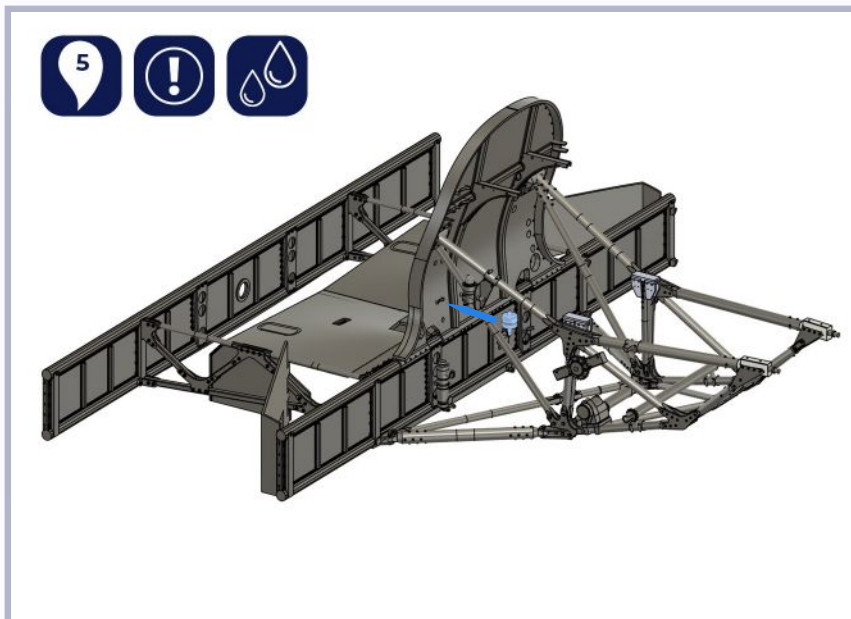
Glue the rear spar with landing gear bay to front spar



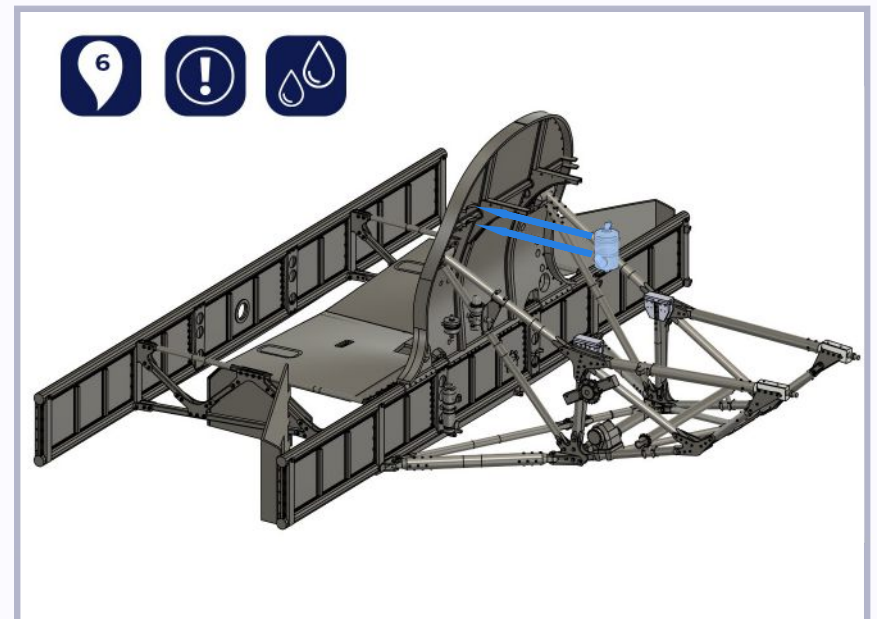
Install the Oil Filter. Pay special attention to the clamp on the Oil Filter when glueing it onto the bracket.



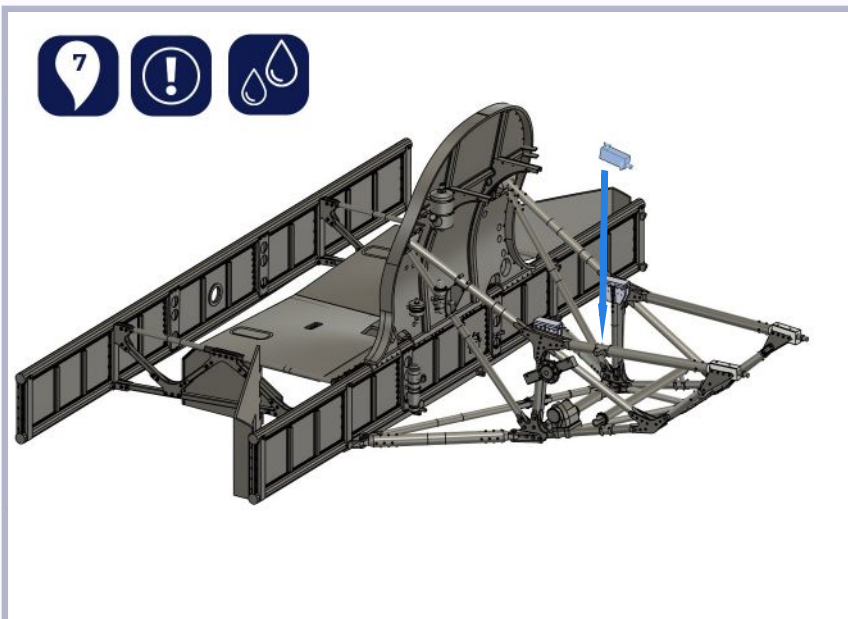
Install the BTH Magneto. Pay special attention to the gear wheel. It has to be aligned to the forward one.



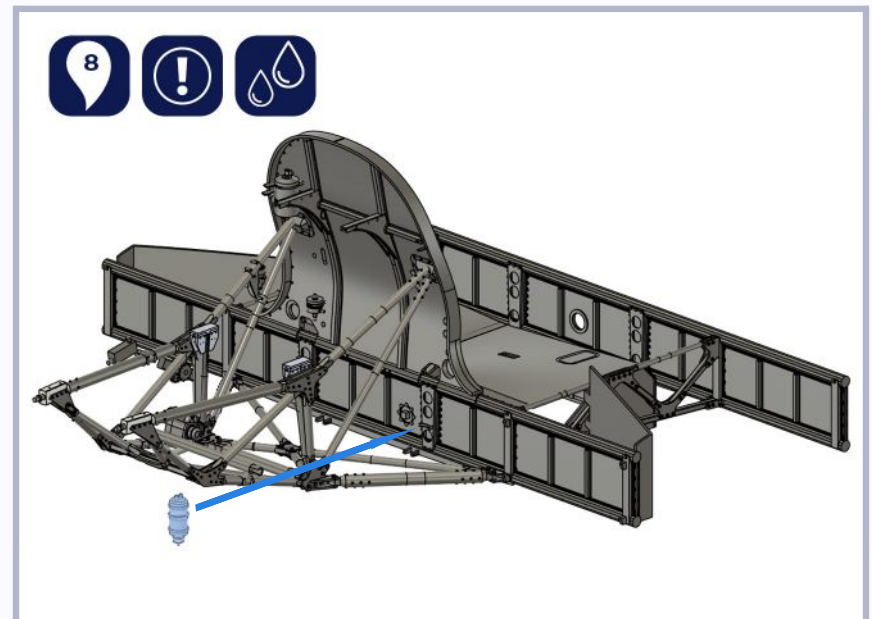
Install the Air Trap. Pay special attention to the clamp on the Air Trap when glueing it onto the bracket.



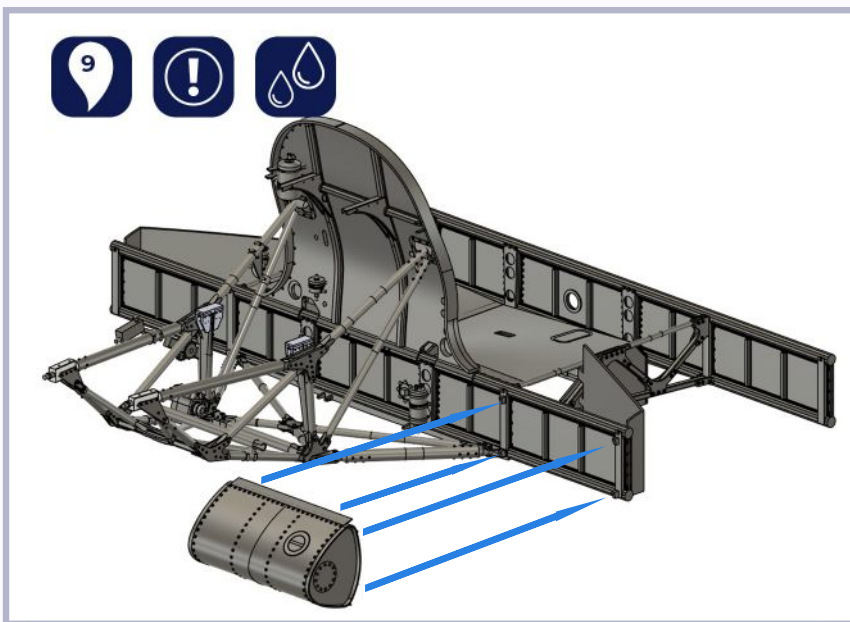
Install the Oil Reservoir. Pay special attention to the clamps on the Oil Reservoir when glueing it onto the brackets.



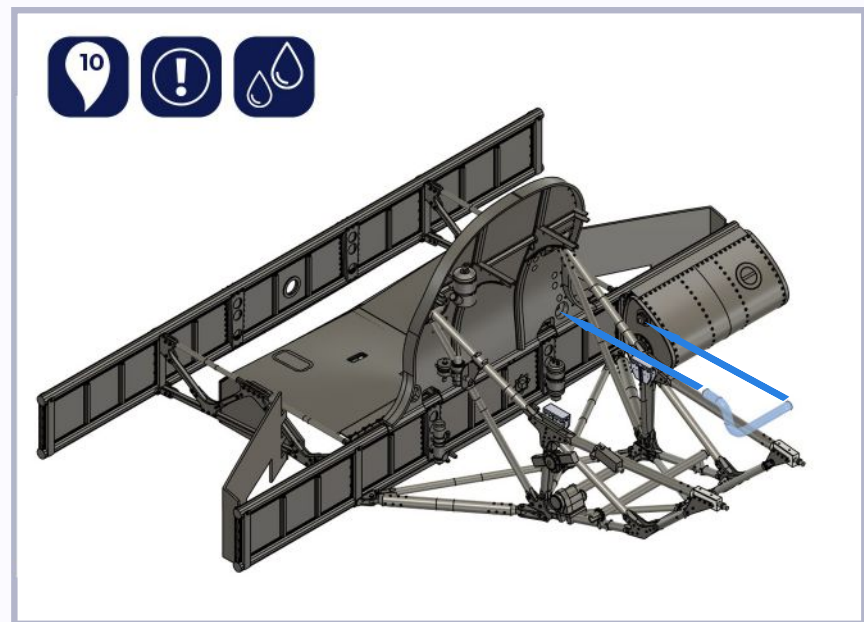
Install the Oil Separator. Pay special attention to align the Oil Separator to the bracket



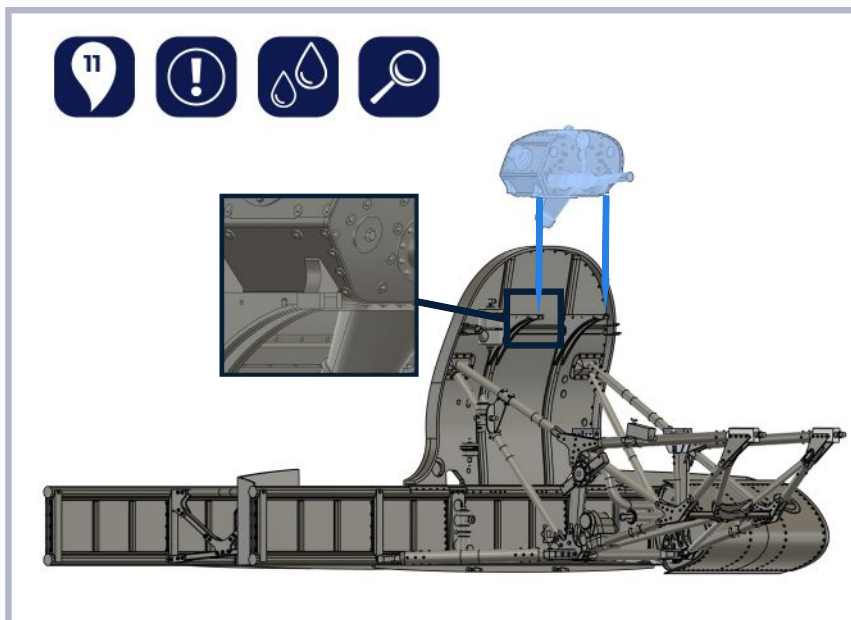
Install the Air/Water-Trap. Pay special attention to the clamp on the Air/Water-Trap when glueing it onto the bracket.



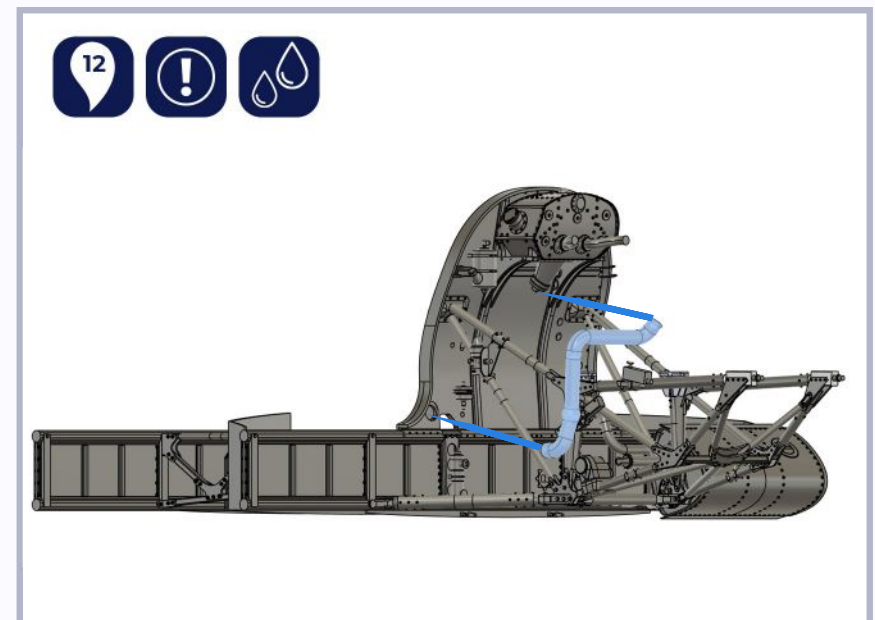
Install the Oil Tank. Pay special attention to the attachment points on the Oil Tank when glueing it onto the brackets.



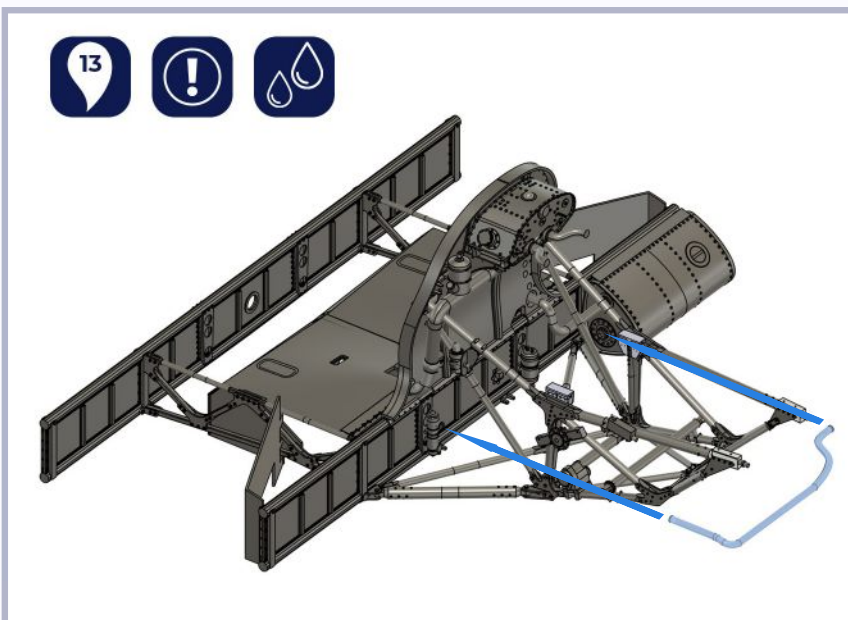
Install the Pipe. Pay special attention to the attachment point on the Oil Tank and attachment point on the Bulkhead



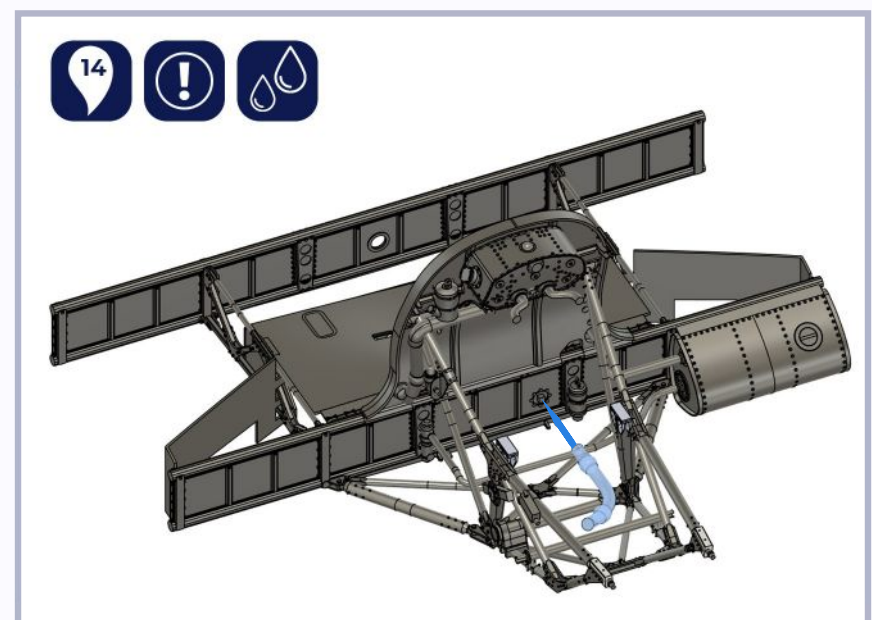
Install the Header Tank. Pay special attention to install the header tank as far forward as possible on the brackets as shown in the detail



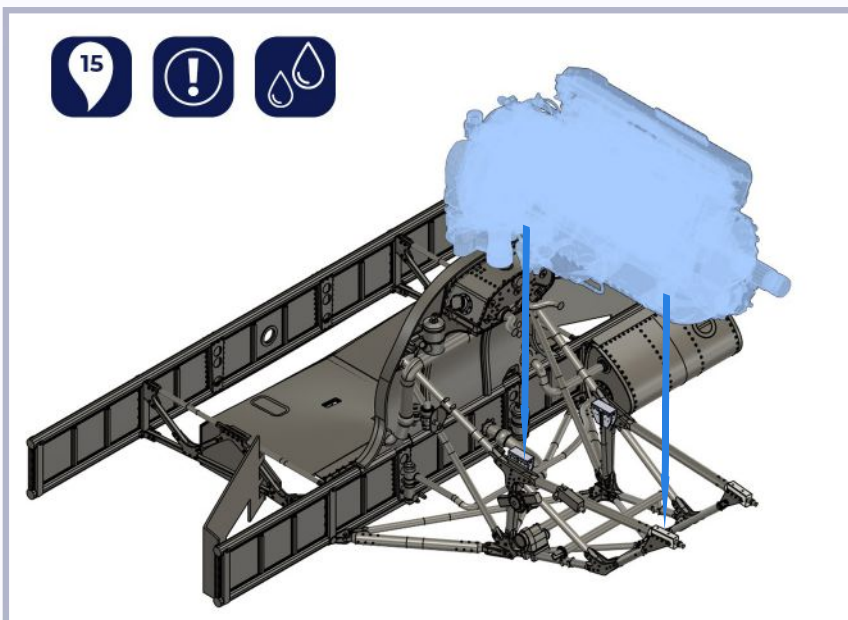
Install the Pipe to the Header Tank at the top and to the Bulkhead at the bottom.



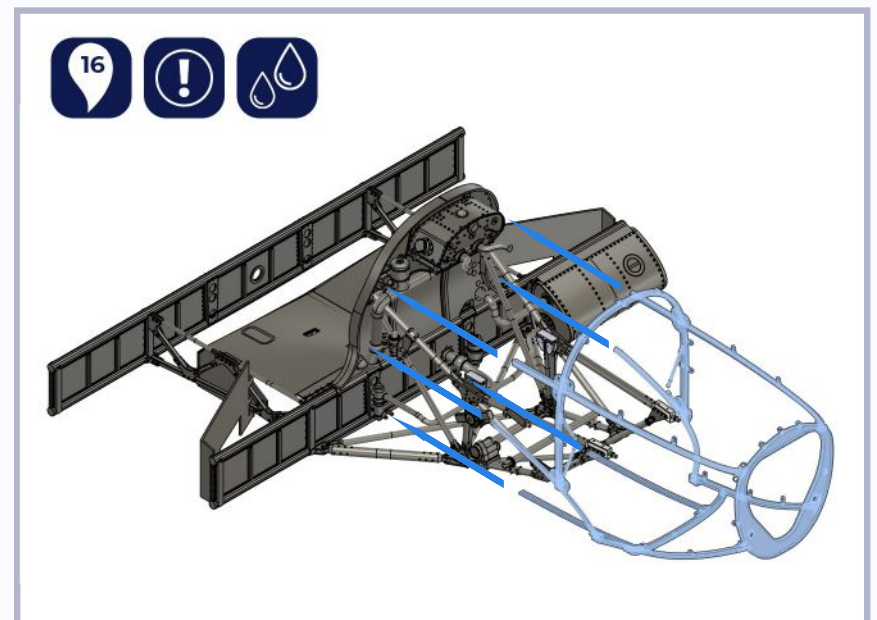
Install the Pipe between Oil Tank and Oil Filter. Ensure to use the upper connection on the Oil Filter



Install the Coolant Pipe. Pay special attention to the correct orientation.



Install the Rolls-Royce Merlin Mk. III. Ensure that the pipes from the header tank are connected to the engine.



Install the Cowling Framing. Attention! 4 attachment points on bulkhead and 2 on the lower boom of the spar. Engine not shown.



P1



Sand the marked area on Part No. A1 and A2

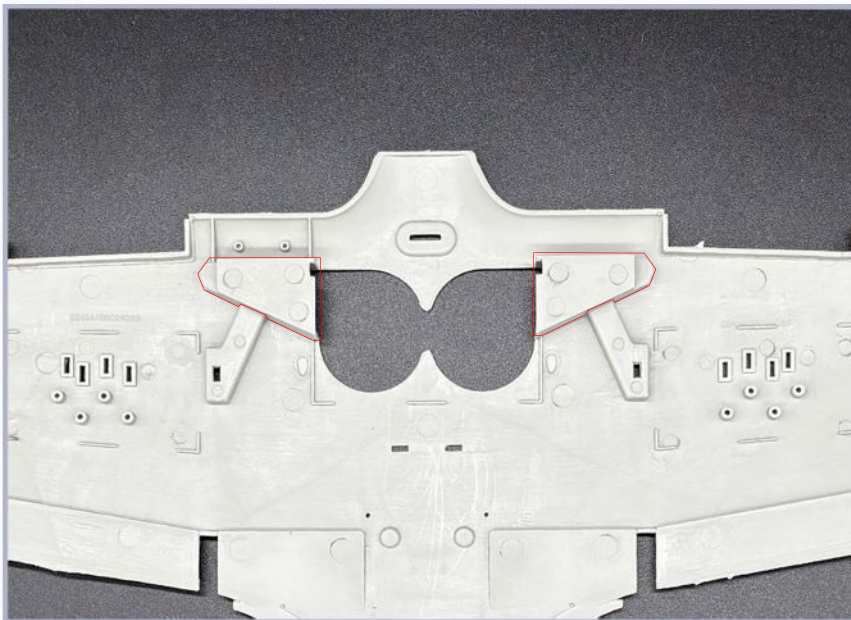
P2



Cut exactly along the red marked panel lines. For precise cutting, we recommend using the Hanboost Ultrasonic Cutter, available in our shop.

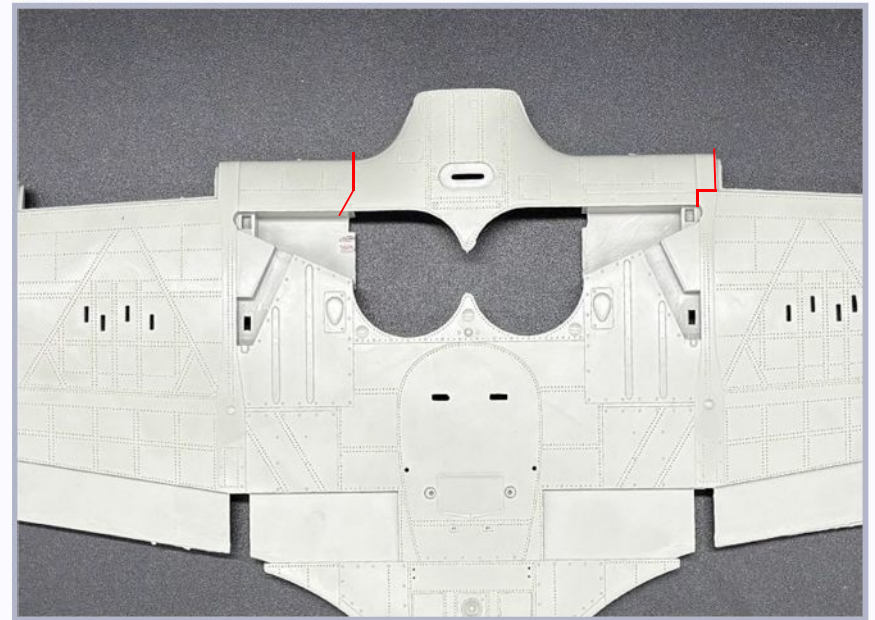


P3



Box Removal: Cut exactly along the red lines to separate the box from the wing Part No. B3. **Do not cut into the wing itself.**

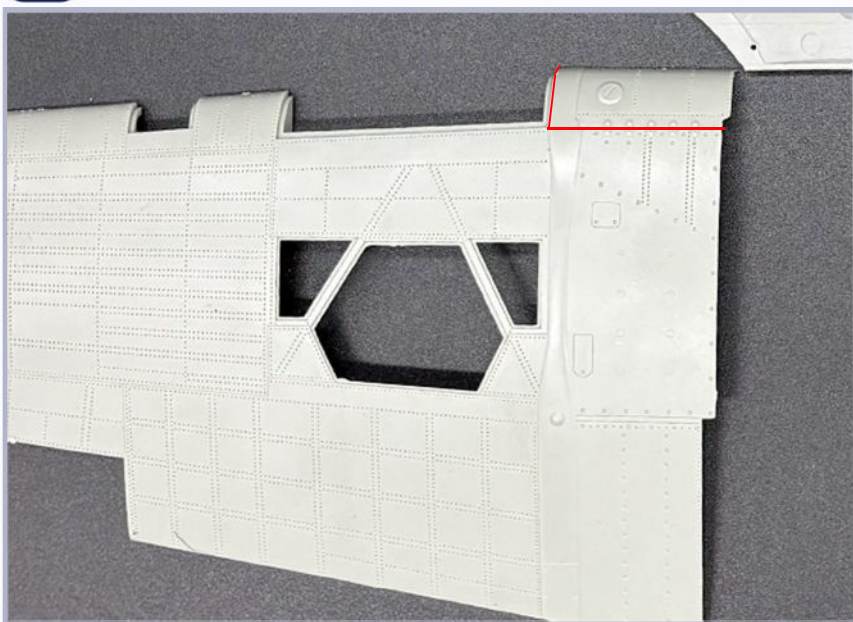
P4



Cut exactly along the red marked panel lines. For precise cutting, we recommend using the Hanboost Ultrasonic Cutter, available in our shop.

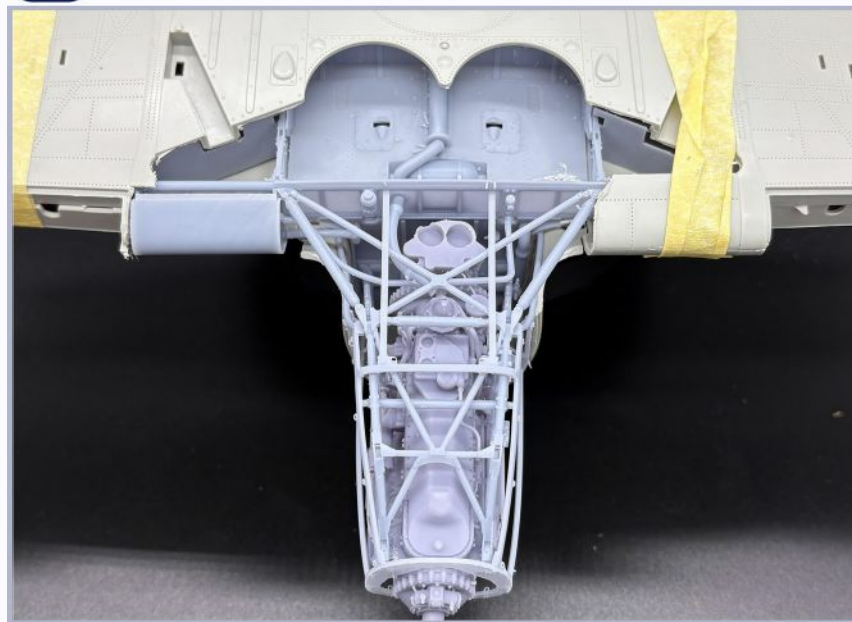


P5



Cut exactly along the red marked lines of part No. B2. For precise cutting, we recommend using the Hanboost Ultrasonic Cutter, available in our shop.

P6



Complete a full dry fit of the engine assembly. Secure the wing and fuselage with tape. Do not glue before verifying a perfect fit.



FISCHKOPP MODEL COMPANY

ABOUT FISCHKOPP MODEL COMPANY

Fischkopp Model Company is a premium manufacturer of high-quality upgrade sets and model kits for aircraft enthusiasts and scale modelers worldwide.

Our products are designed with passion, engineered with precision and crafted to the highest standards. Developed by modelers for modelers.

Attention to detail. Commitment to quality.

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DESIGNED IN GERMANY
MADE WITH PASSION



PRECISION ENGINEERED
FOR THE DISCERNING MODELER



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