

1955 BRITISH GRAND PRIX WINNER

MERCEDES-BENZ W 196 R



Pack 07

BUILD INSTRUCTIONS

STAGE 40: FIXING THE CENTRAL CROSSBEAM
AND THE REAR TORSION BARS

STAGE 41: BUILDING THE INLET MANIFOLD

STAGE 42: INSTALLING THE INLET MANIFOLD

STAGE 43: INSTALLING THE FIRST
EXHAUST MANIFOLD

STAGE 44: INSTALLING THE SECOND EXHAUST
MANIFOLD AND FITTING THE ENGINE

STAGE 45: INSTALLING THE EXPANSION TANK

STAGE 46: ASSEMBLING THE REAR LEFT
WHEEL RIM (1) (REGULAR)

STAGE 46B: ASSEMBLING THE REAR LEFT
WHEEL RIM (1) (EASY)

STAGE 47: ASSEMBLING THE REAR LEFT
WHEEL RIM (2) (REGULAR)

STAGE 47B: ASSEMBLING THE REAR LEFT
WHEEL RIM (2) (EASY)

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Advice from the experts

This set of step-by-step instructions will enable you to complete the build of your 1:8-scale Mercedes-Benz W 196 R. The only tool you will need is a screwdriver. Most of the steps involve simply screwing or fitting parts together, and the correct screws needed for each step are clearly labelled on the instructional images.

Please note the following:

- The number designated by a # refers to the number given on the parts supplied in each pack.
- Where left and right elements of the same part are supplied, these are listed as (L) and (R).
- Close-up details of steps are framed in yellow.
- You will not be using every part you receive in your shipment in that build section. Keep any parts that are not used aside for use in a later sequence.
- You will receive extra screws with each shipment in case any screws are lost or broken.
- Screws with codes ending in the letter M drive into metal; those ending in the letter P drive into plastic.
- With M screws, first drive the screw in half-way. Then unscrew it to release the shavings created as the screw cuts its thread. Finally, drive the screw fully into the socket. M screws should be tightened so the head makes firm contact with the fixing surface.
- With P screws, do not over-tighten them as they can damage the socket.
- When working with the pre-finished exterior surfaces of the model, work on a soft cloth. This will protect against scratching the paintwork.
- When plugging wires in, ensure the power is switched off.
- Tweezers can be used to fit the PVC cables. In this case, grip carefully around 5mm from the end of the cable. If the end of the cable is too narrow to fit on to the pin, cautiously insert a cocktail stick, being wary not to split the cable.
- Some smaller plastic parts are attached to sprues. You can remove these by hand, or by careful use of a cutting implement such as a scalpel.
- When assembling the wheels of your model, you can choose between regular and easy assemblies. Follow our instructions carefully.

The images in this manual may differ slightly from those supplied in your pack. These images differ in appearance only and will not affect the process of the build.

WARNING: Some parts are assembled using magnets. These magnets can cause serious injury if they are swallowed. Keep away from children. If you suspect a magnet has been swallowed, seek medical help straight away.

Advice from the experts



When you see this symbol on one of the images in these instructions, we have provided a Top Tip to help you with your build. Check back on this page for the corresponding tip!

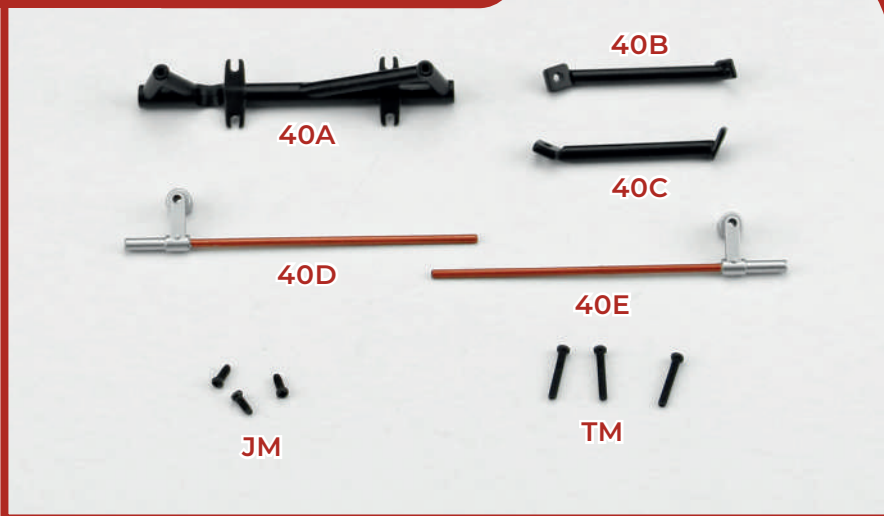
You can find more expert tips and advice for building the Mercedes W196R on our forum. Go to <https://community.agoramodels.com/forum/198-mercedes-w196r/>

Page 9 – F

The long pin of **44C** fits in **44D** and the short pin fits in **44F**. Fit the pipes from Stage 16 at the end of Stage 44 if you didn't fit them earlier.

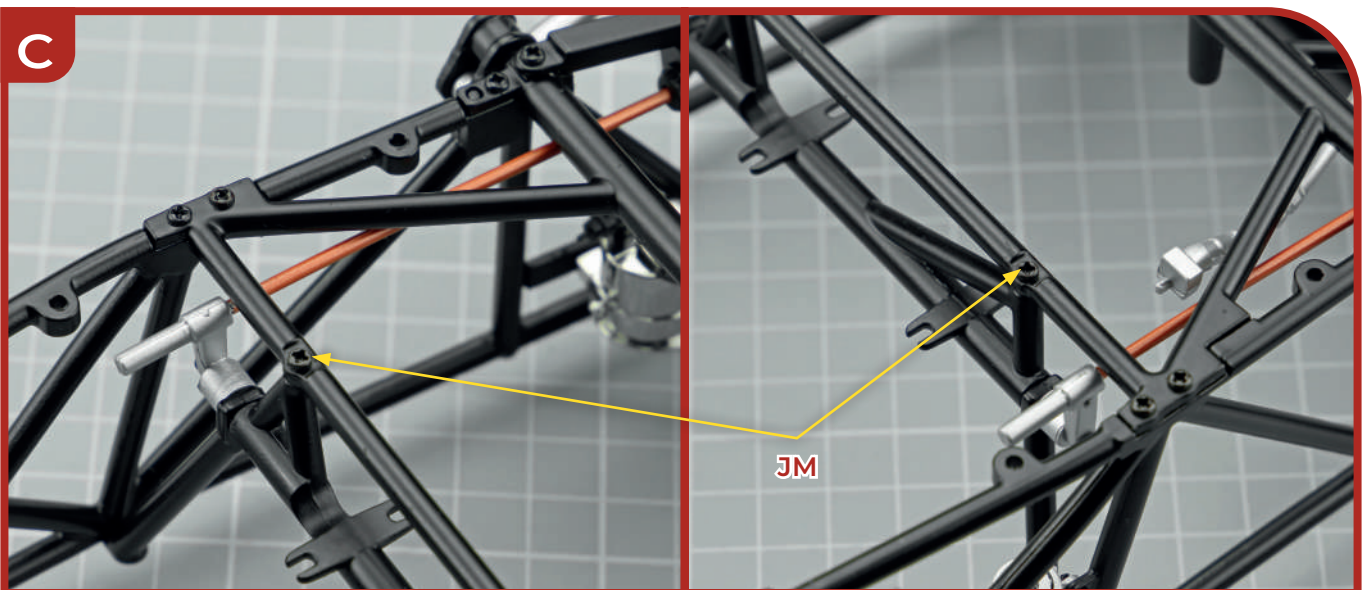
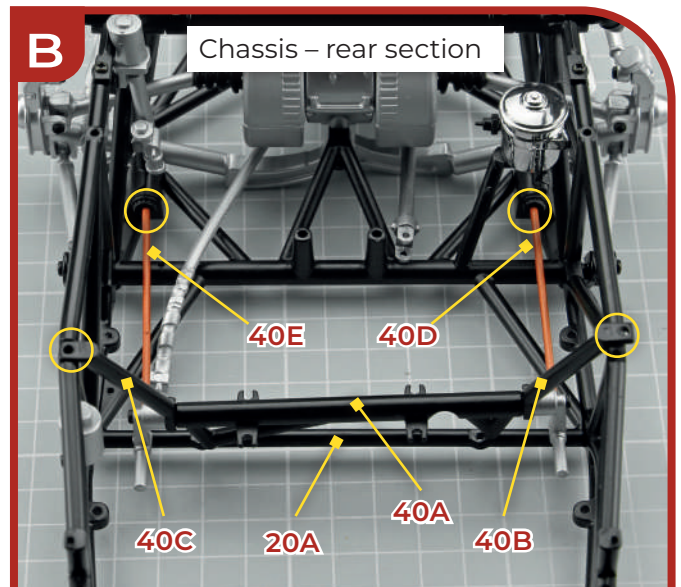
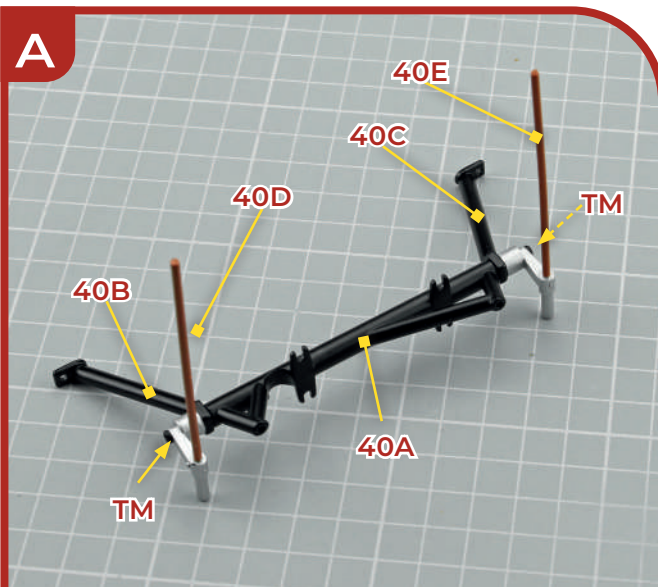
Stage 40: Fixing the Central Crossbeam and the Rear Torsion Bars

4-40# PARTS LIST



40A Central crossbeam
40B Left tube
40C Right tube
40D Left rear torsion bar
40E Right rear torsion bar

JM 3 screws (2 x 5 mm)
TM 3 screws (2 x 13 mm)



Stage 41: Building the Inlet Manifold

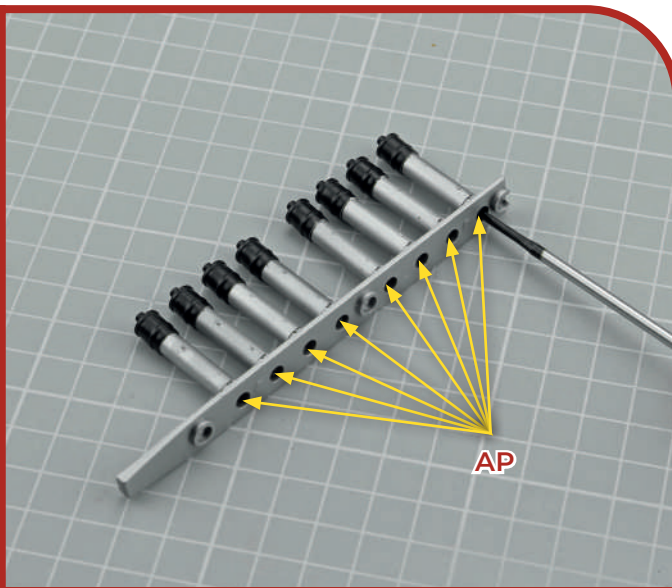
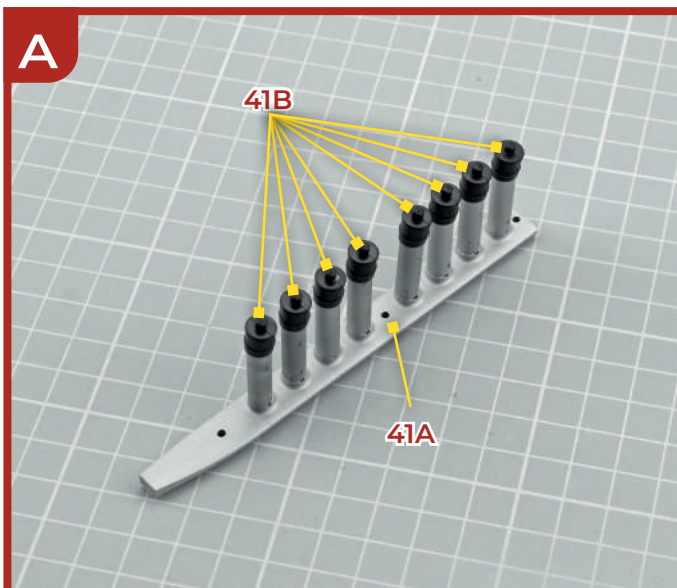
4-41# PARTS LIST



41A Inlet manifold
41B Pipes (x8)

AP 11 screws (1.7 x 4 mm)

A



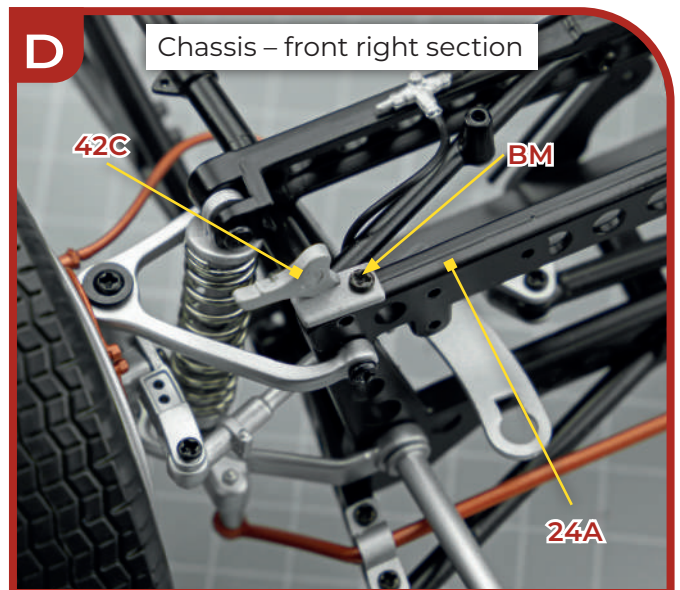
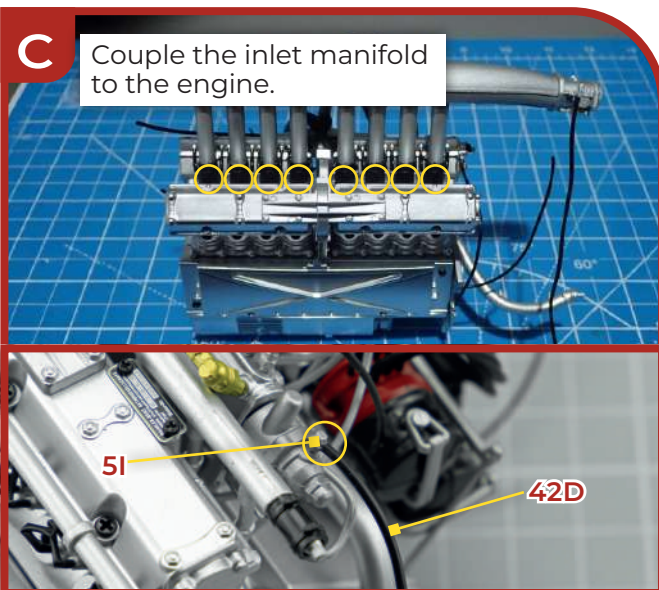
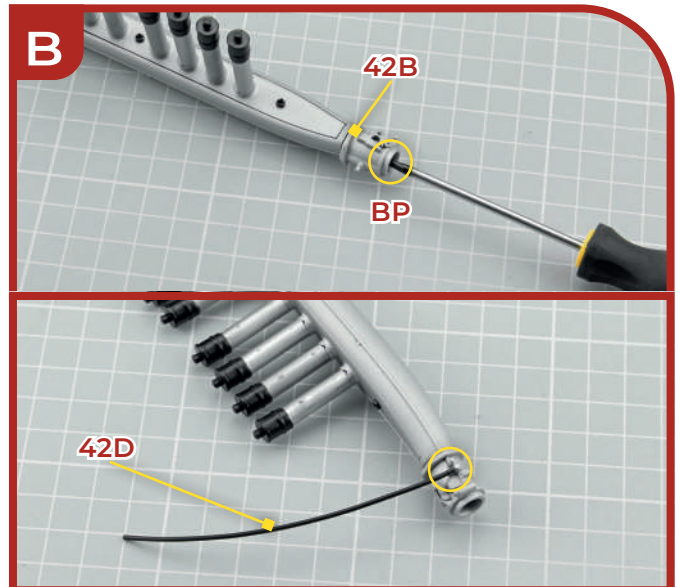
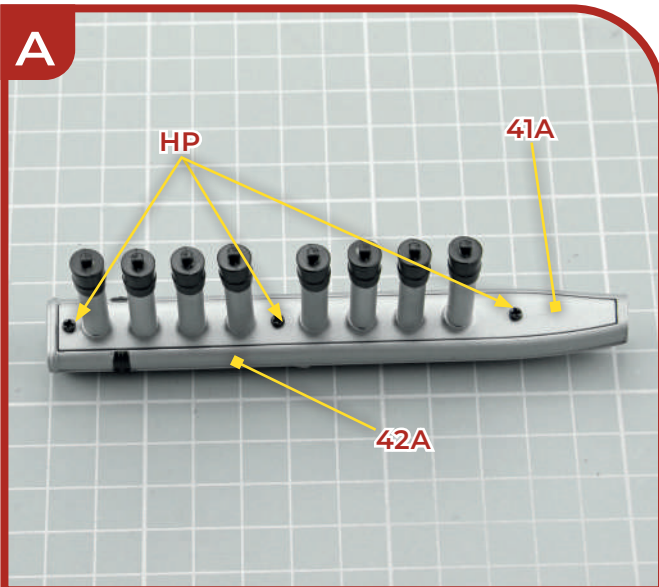
Stage 42: Installing the Inlet Manifold

4-42# PARTS LIST



42A Inlet manifold cover
42B Throttle body
42C Inlet manifold support
42D Tube

BM 2 screws (1.7 x 3 mm)
BP 2 screws (2 x 5 mm)
HP 4 screws (1.7 x 5 mm)



Stage 43: Installing the First Exhaust Manifold

4-43# PARTS LIST



43A Exhaust manifold

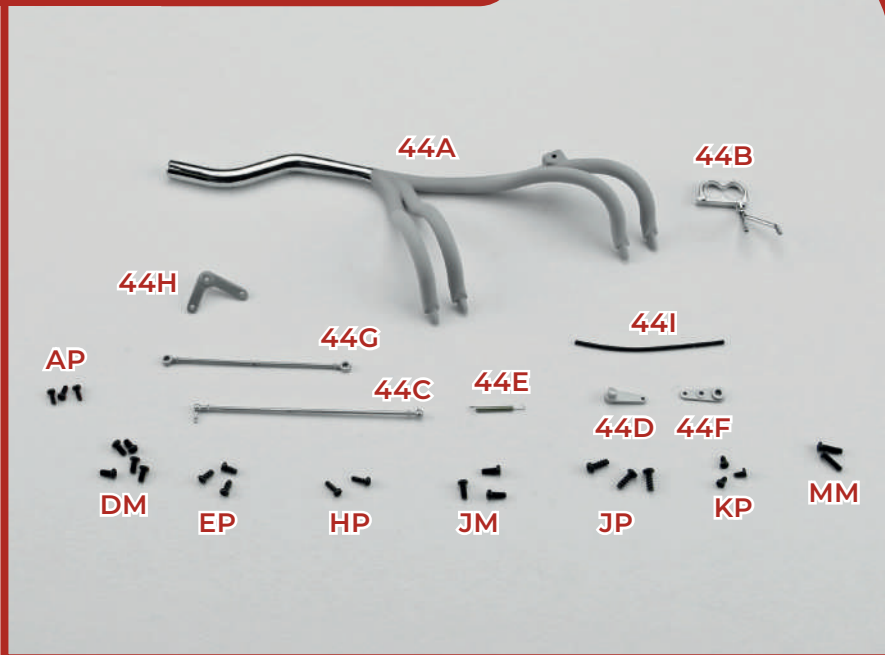
A

Couple the exhaust manifold **43A** to the engine.

43A

Stage 44: Installing the Second Exhaust Manifold and Fitting the Engine

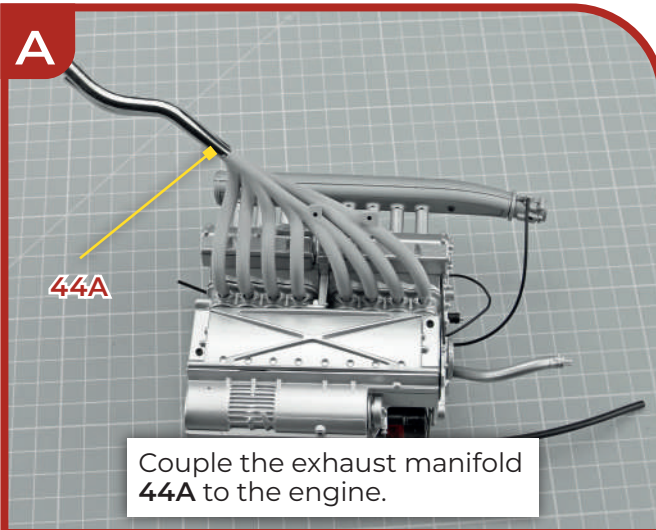
4-44# PARTS LIST



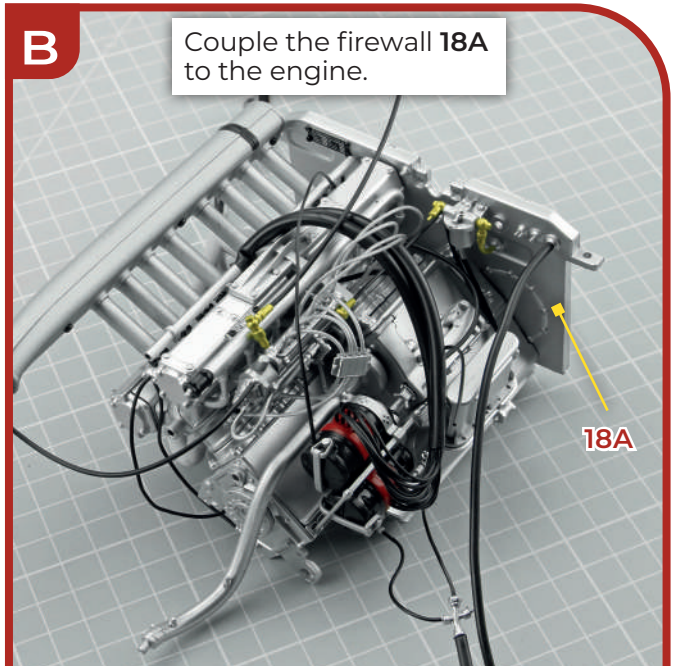
- 44A Exhaust manifold
- 44B Flange
- 44C Accelerator rod 1
- 44D Lever 1
- 44E Spring
- 44F Lever 2
- 44G Accelerator rod 2
- 44H Lever 3
- 44I Fuel line 4 (replacement)

- AP 3 screws (1.7 x 4 mm)
- EP 3 screws (2 x 4 mm)
- HP 2 screws (1.7 x 5 mm)
- JP 3 screws (2.3 x 6 mm)
- KP 3 screws (1.7 x 3 mm)
- DM 5 screws (2 x 4 mm)
- JM 3 screws (2 x 5 mm)
- MM 2 screws (2 x 7 mm)

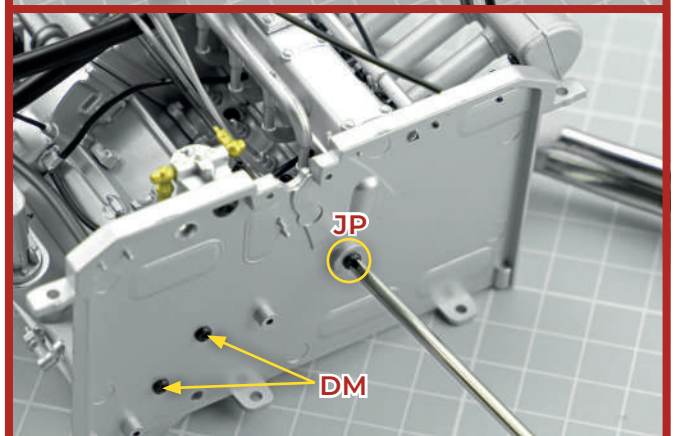
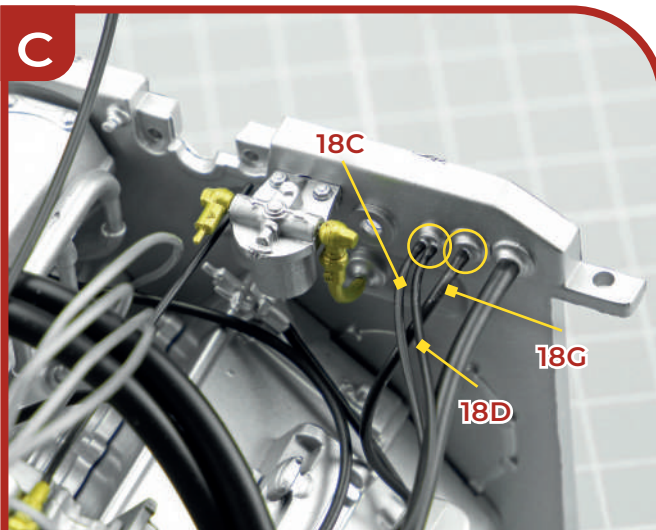
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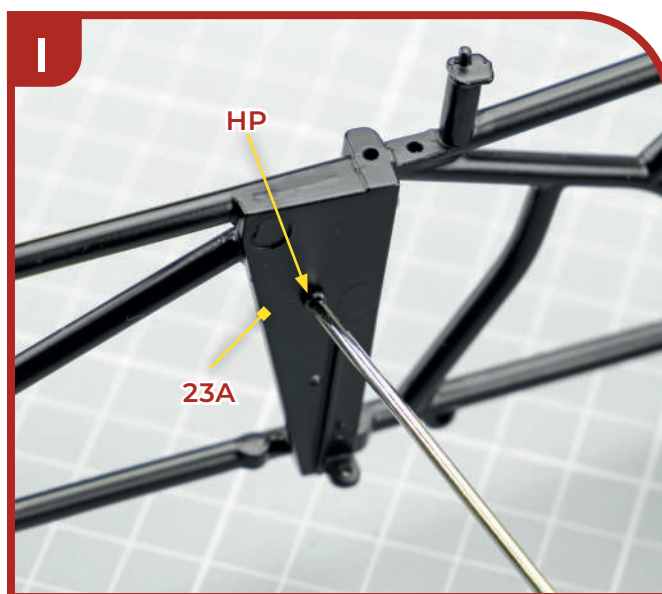
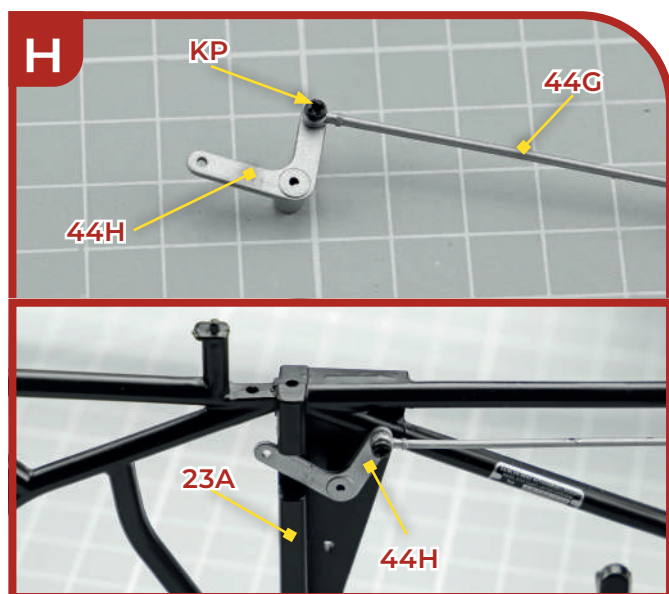
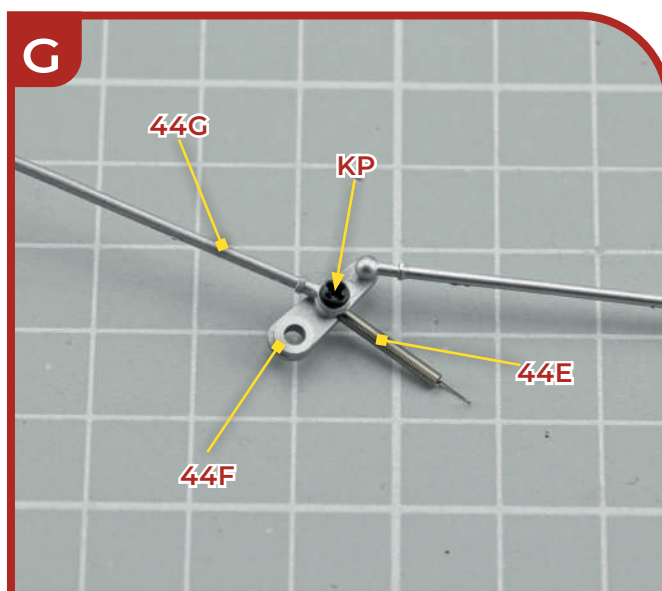
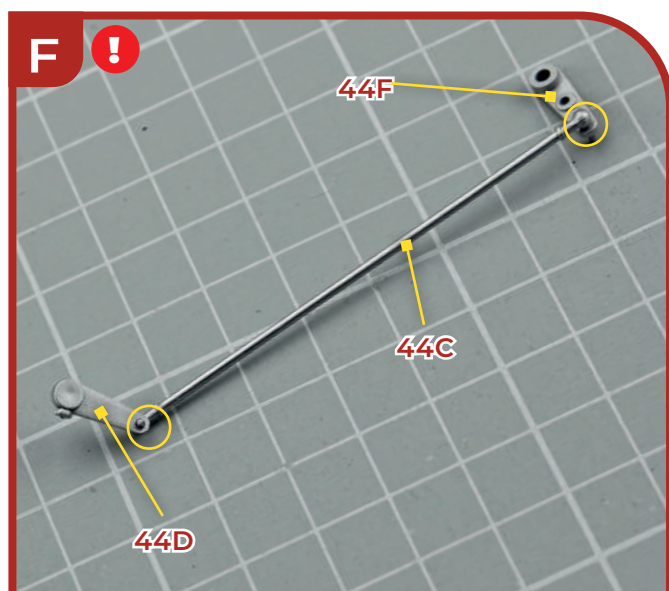
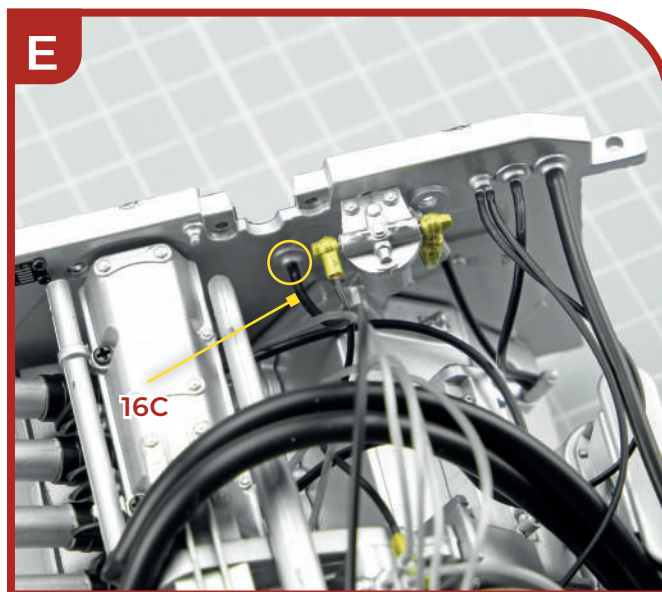
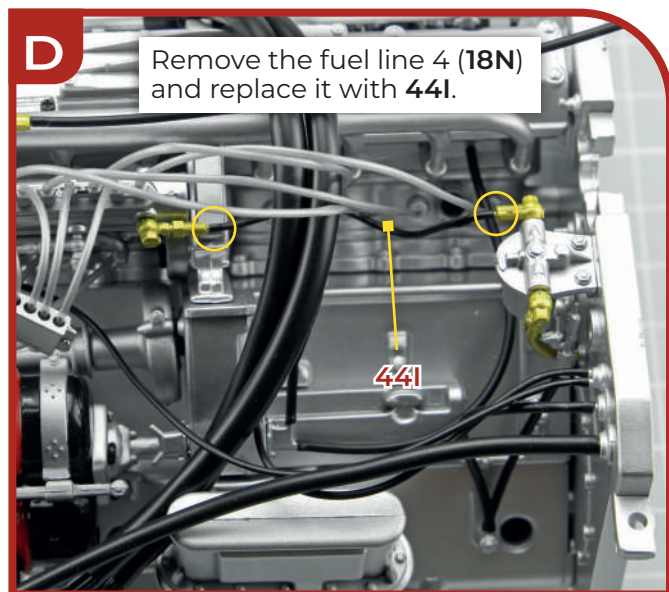
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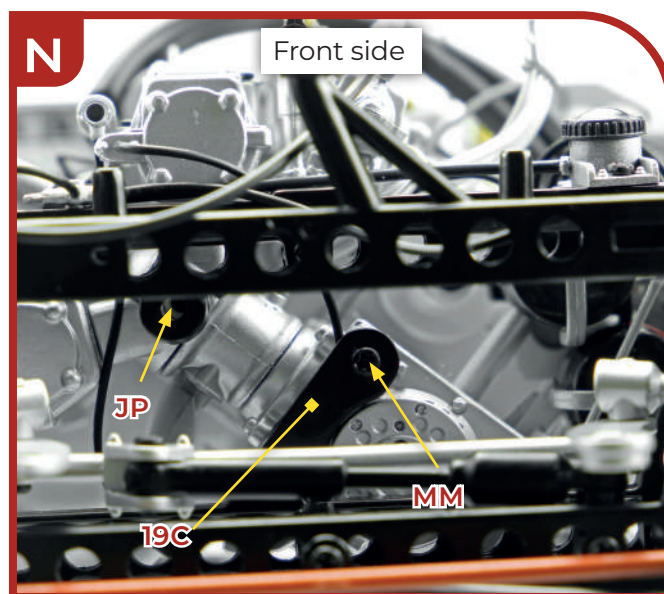
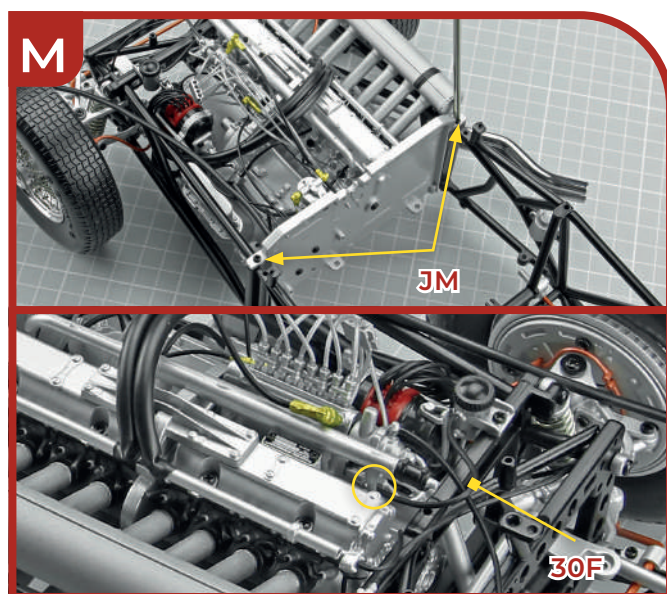
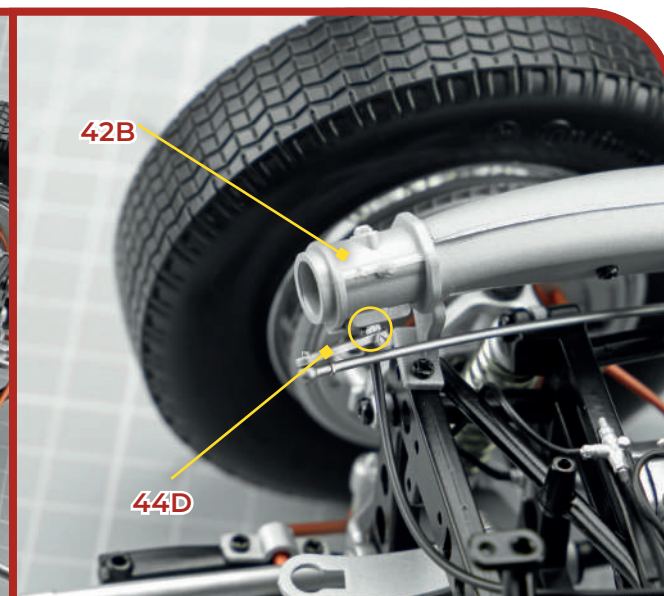
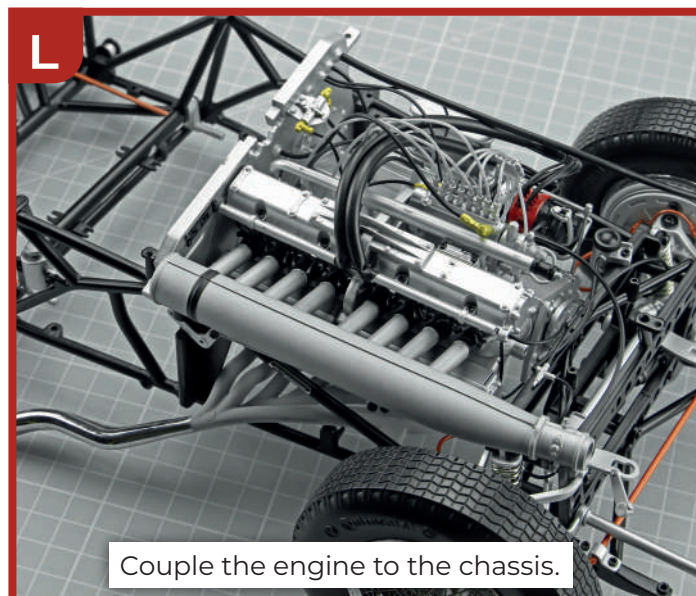
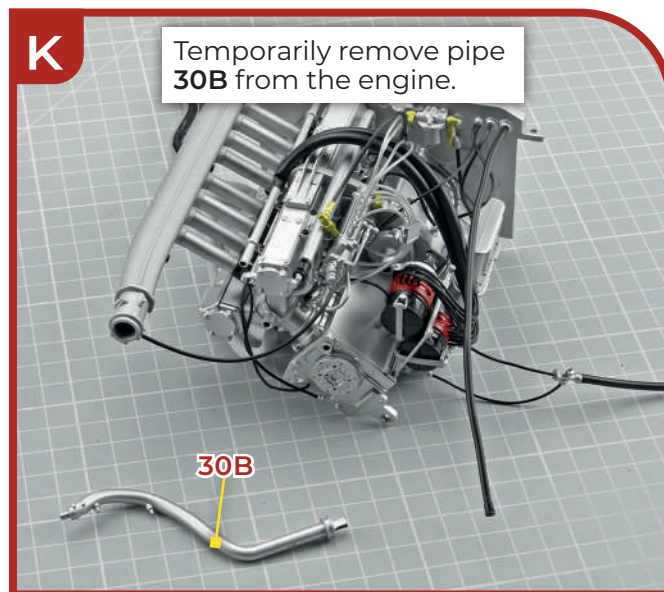
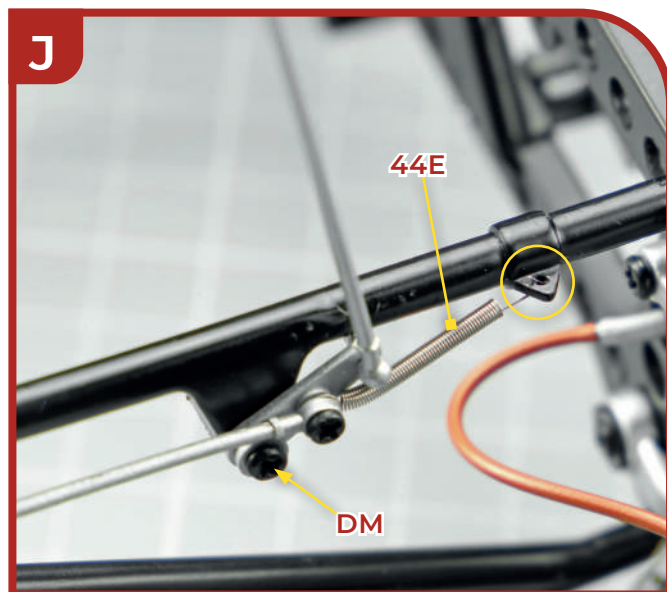
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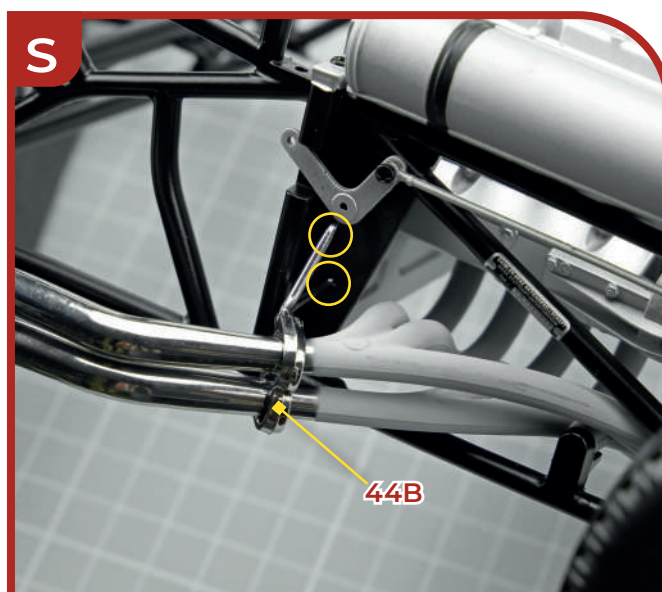
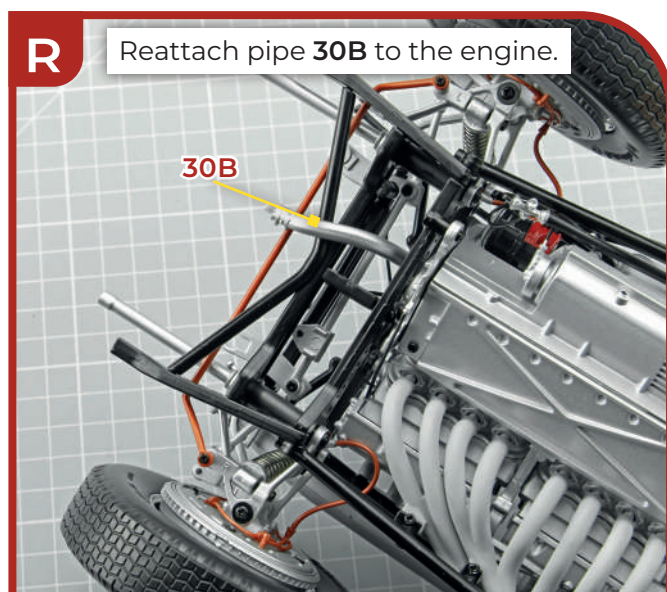
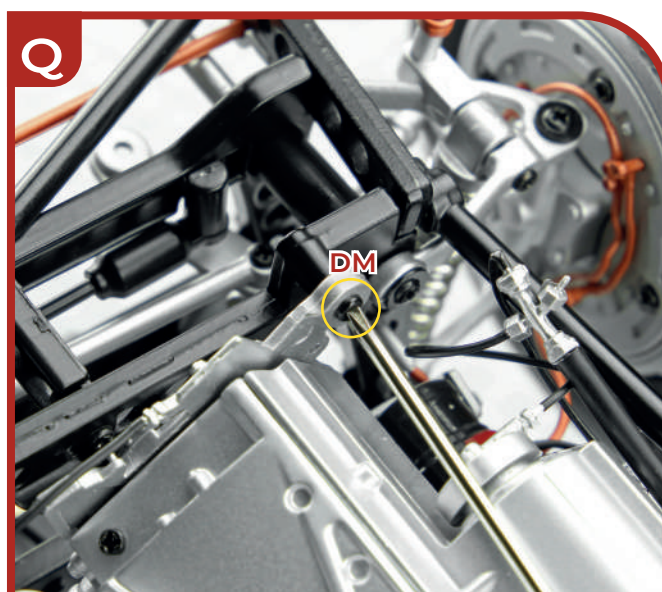
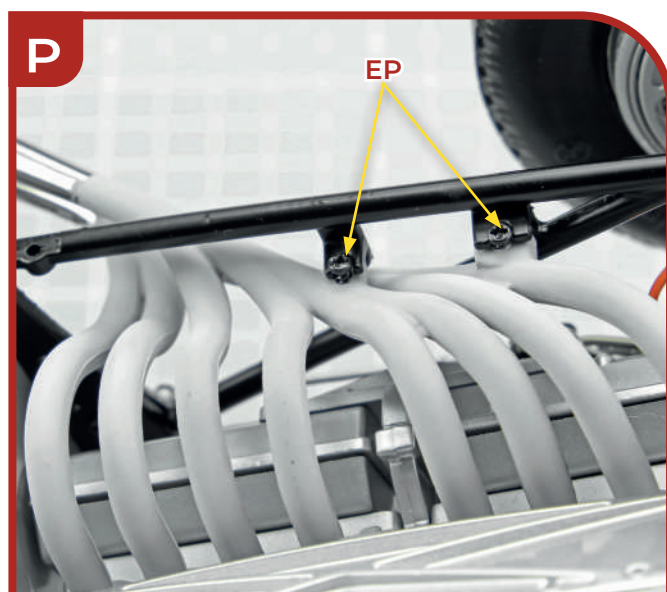
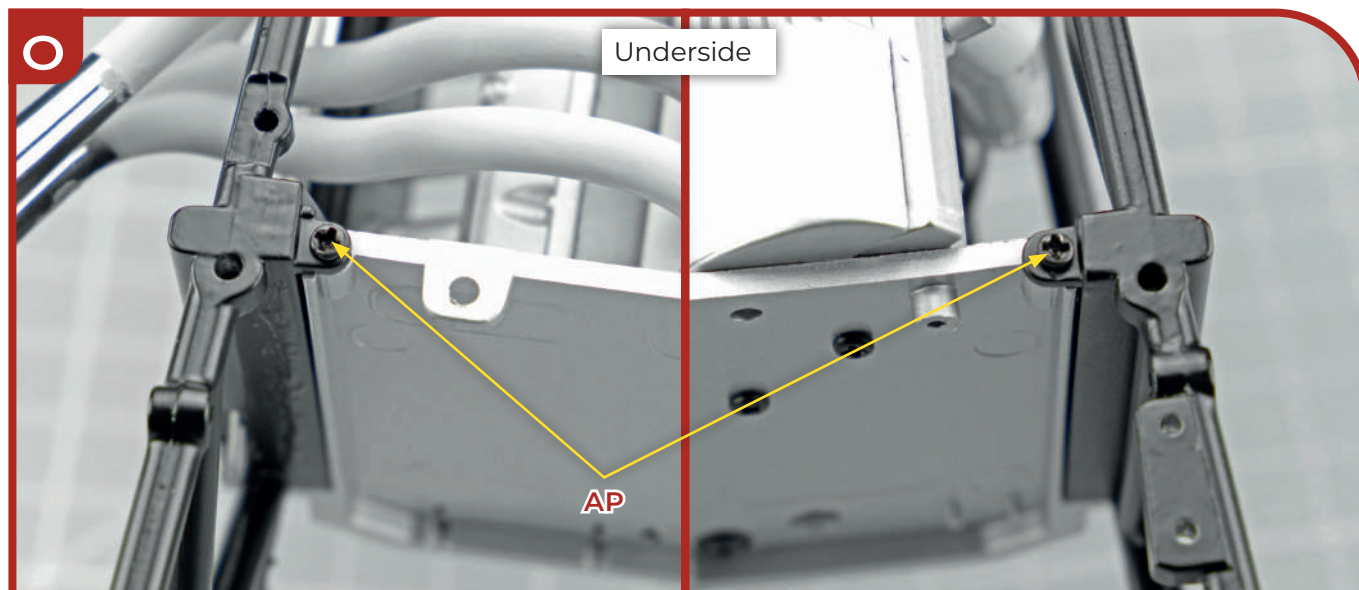
Stage 44: Installing the Second Exhaust Manifold and Fitting the Engine



Stage 44: Installing the Second Exhaust Manifold and Fitting the Engine

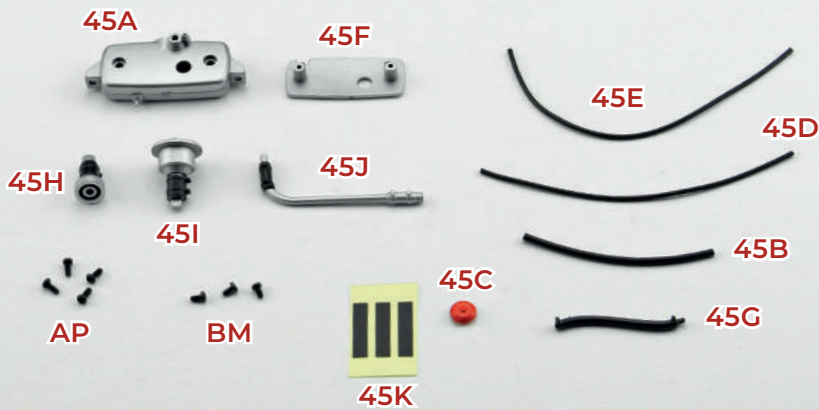


Stage 44: Installing the Second Exhaust Manifold and Fitting the Engine



Stage 45: Installing the Expansion Tank

4-45# PARTS LIST



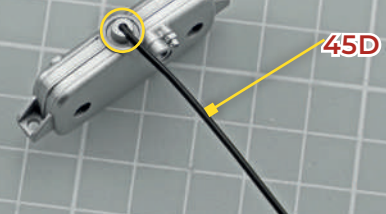
45A Expansion tank part A
 45B Tube 1
 45C Cap
 45D Tube 2
 45E Tube 3
 45F Expansion tank part B
 45G Pipe 1
 45H Pipe 2
 45I Pipe 3
 45J Pipe 4
 45K Adhesive tape

AP 4 screws (1.7 x 4 mm)
 BM 3 screws (1.7 x 3 mm)

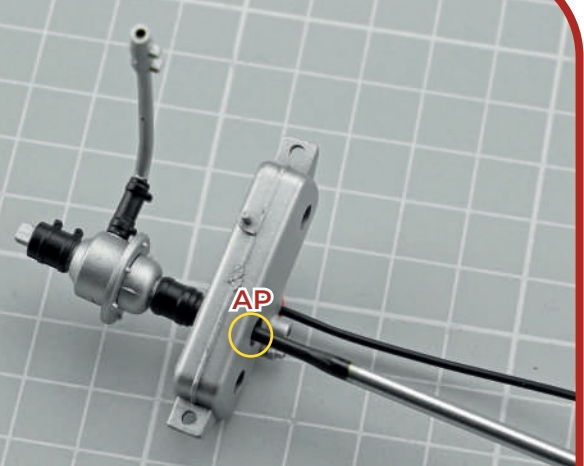
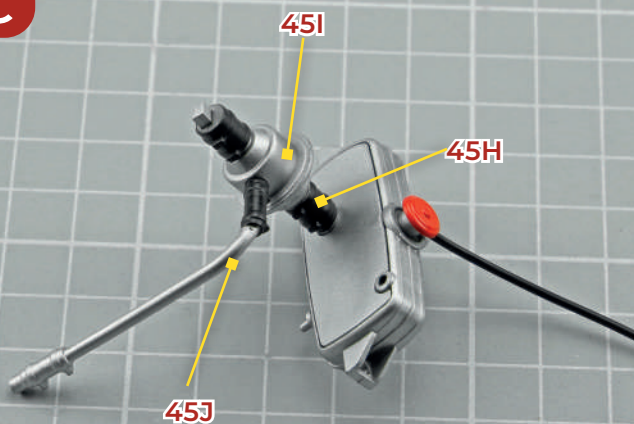
A



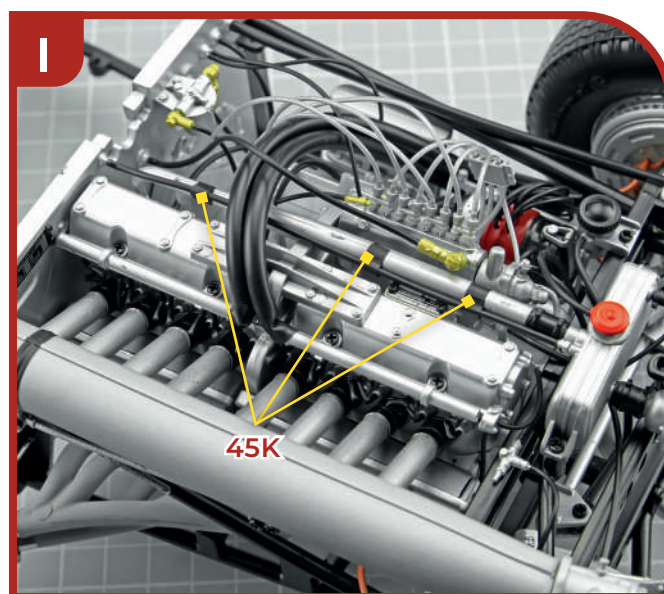
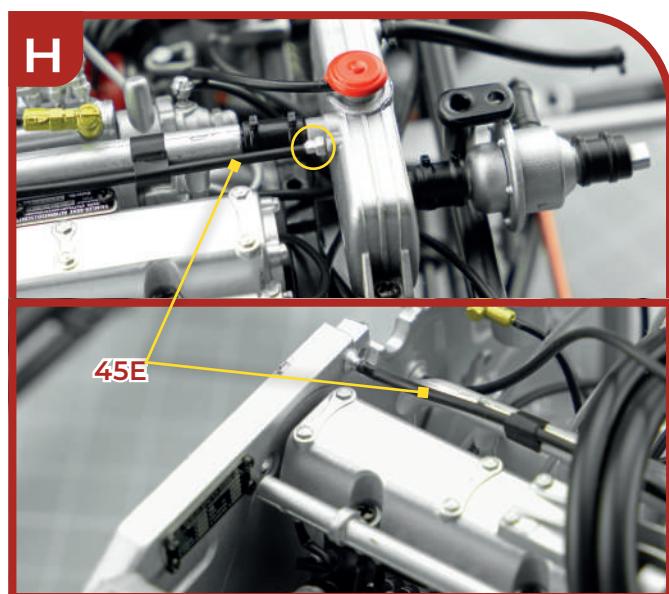
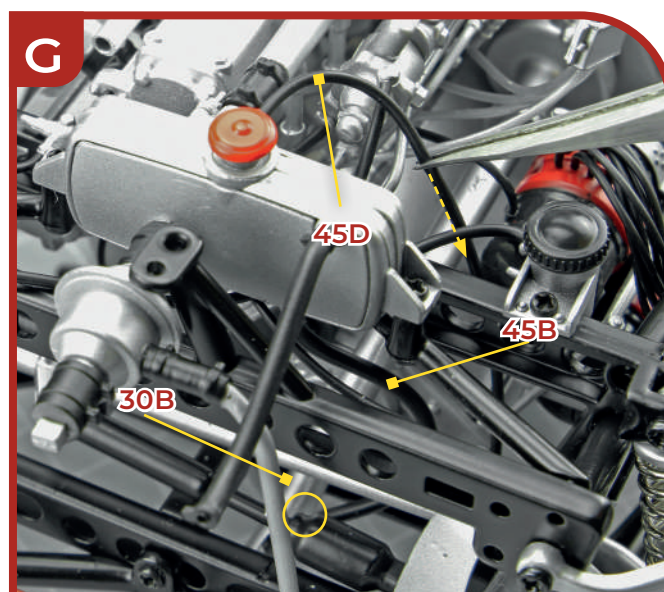
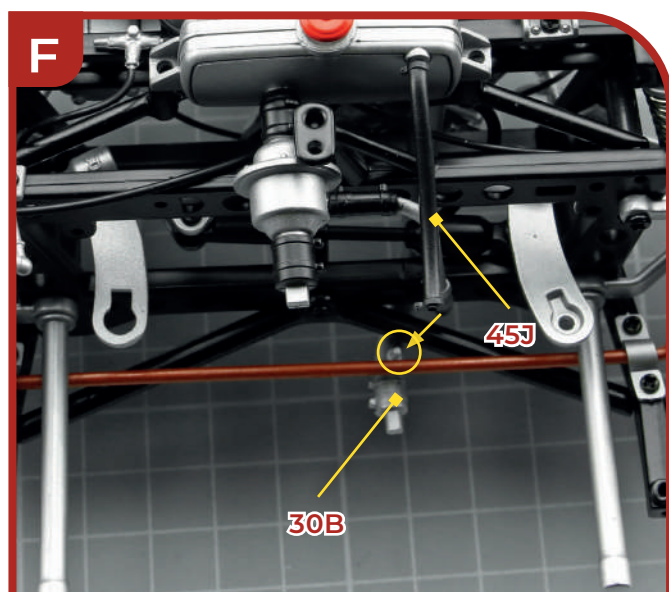
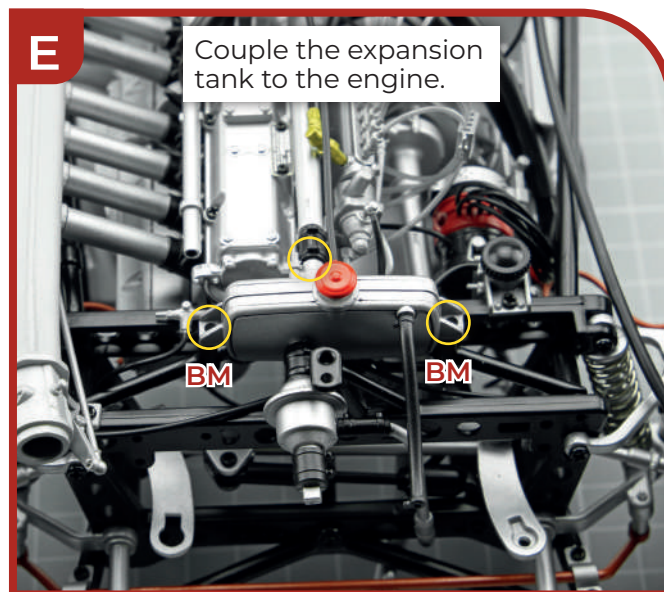
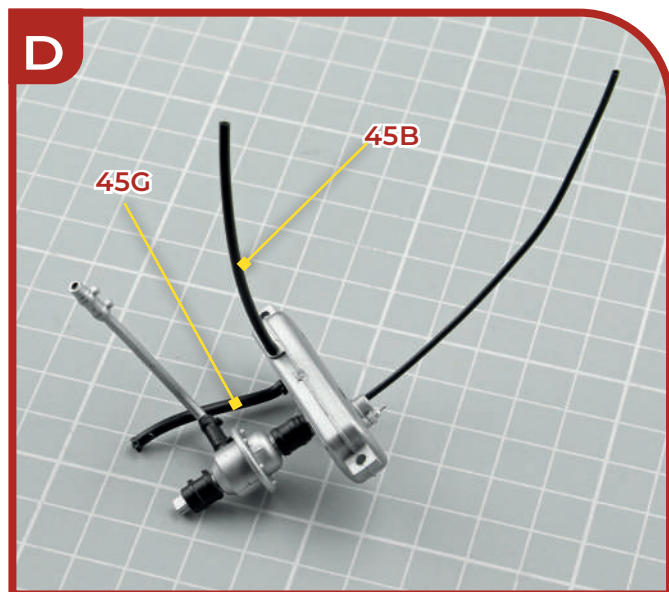
B



C

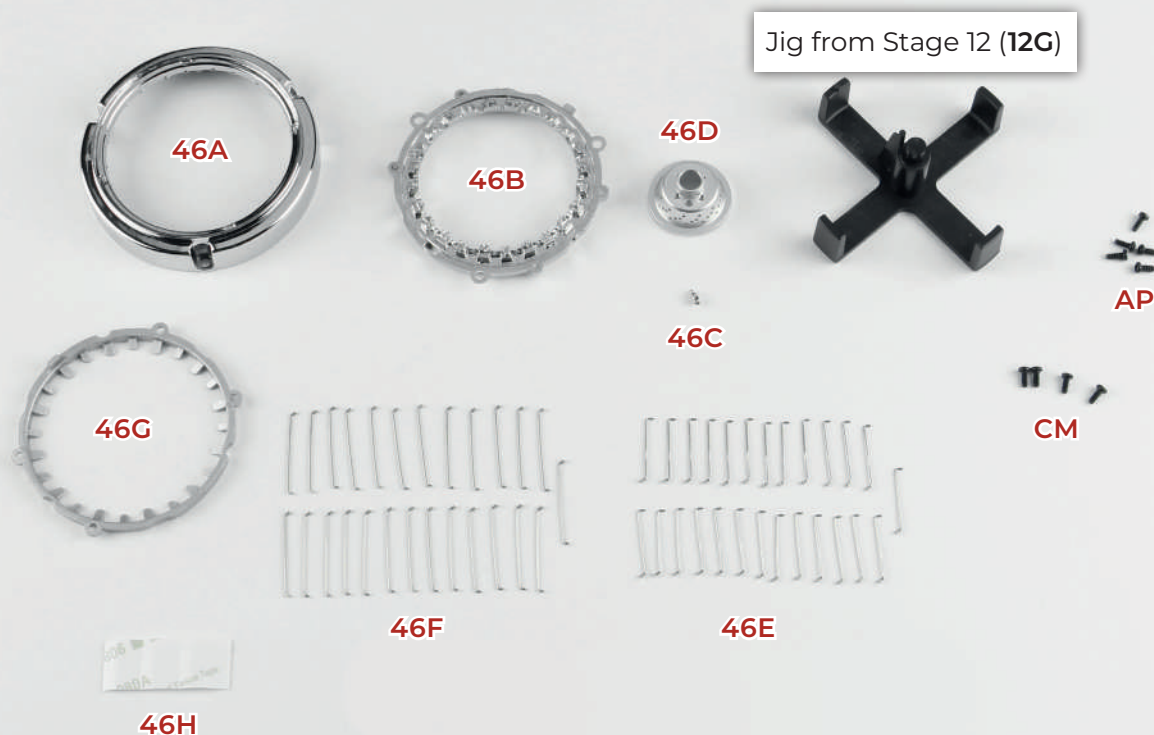


Stage 45: Installing the Expansion Tank



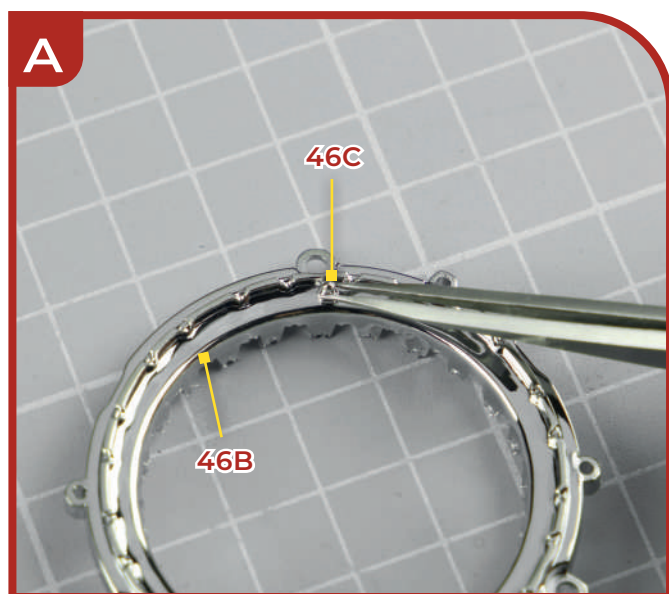
Stage 46: Assembling the Rear Left Wheel Rim (1) (Regular)

4-46# PARTS LIST

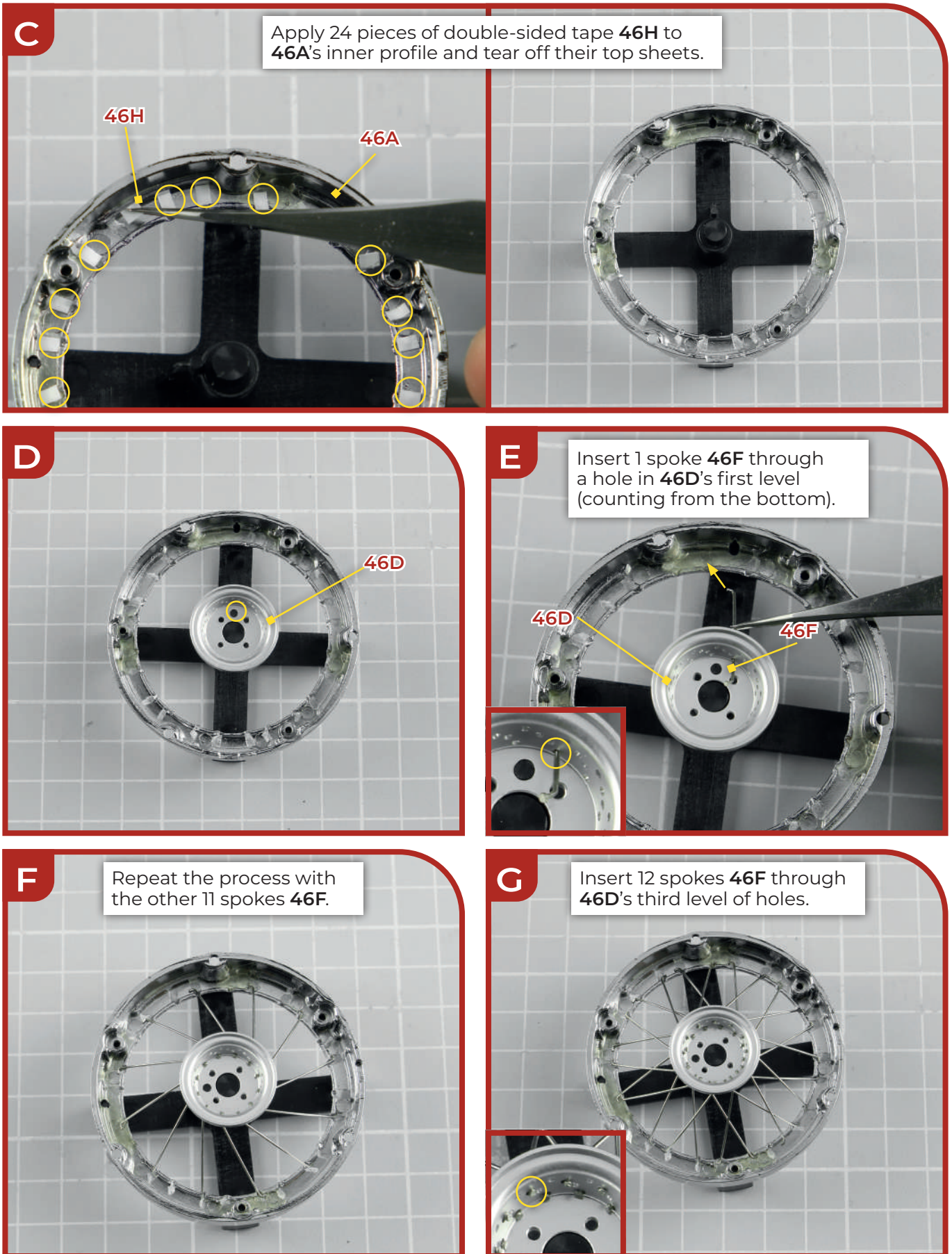


REGULAR ASSEMBLY

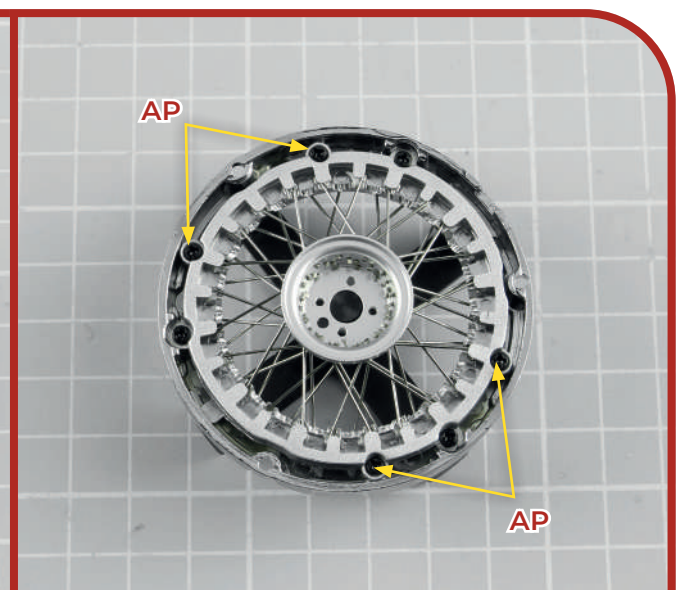
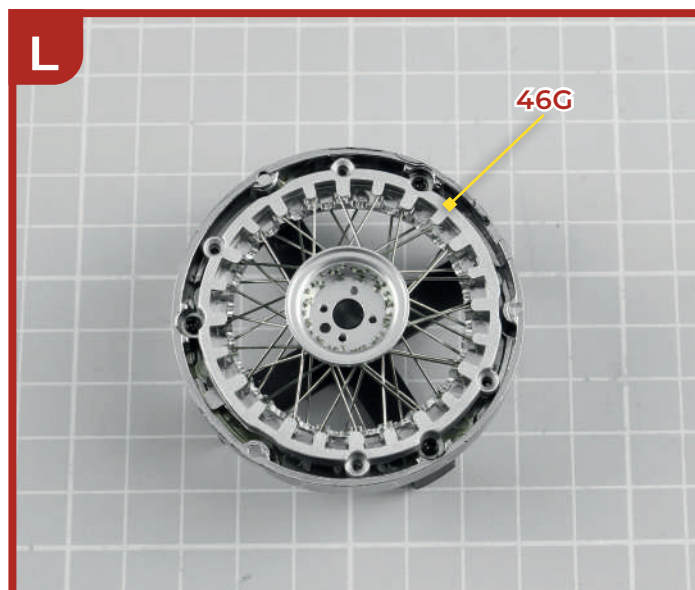
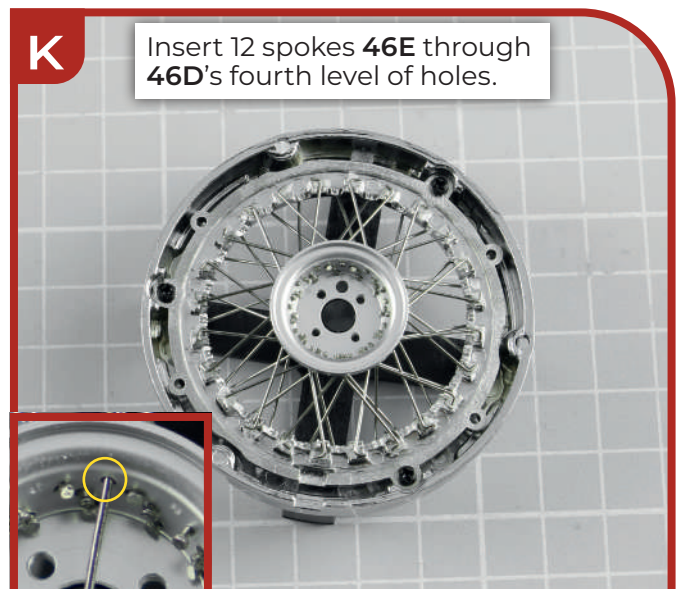
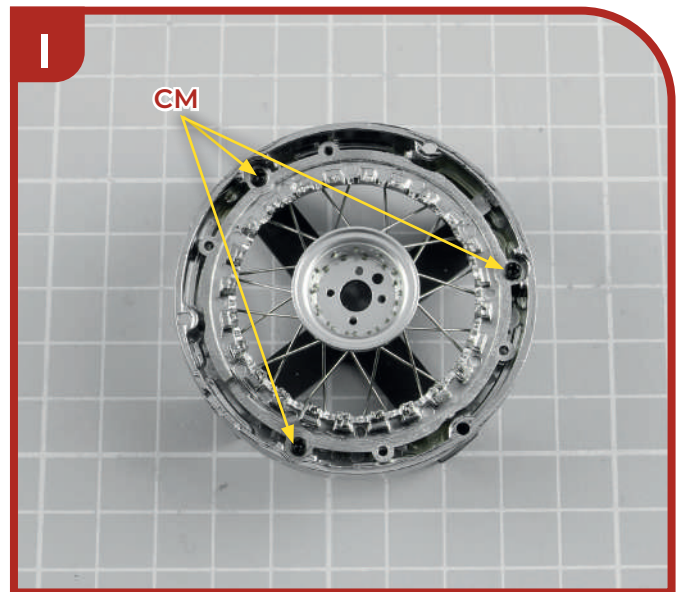
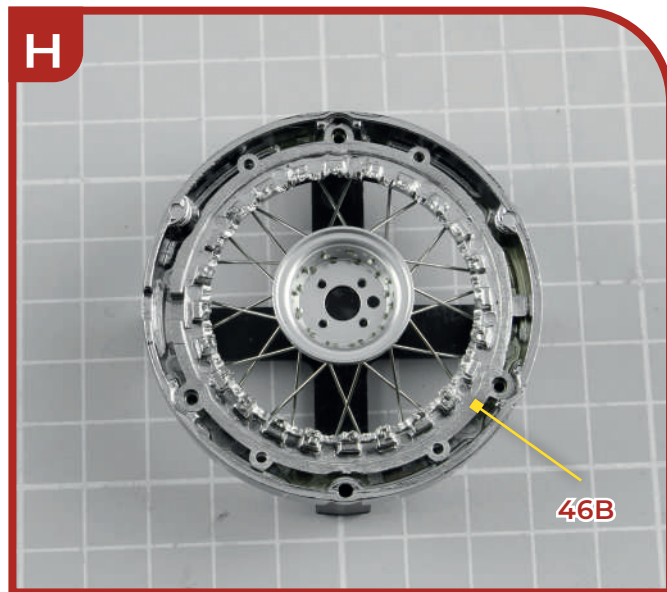
46A	Outer rim	46E	Spokes 1	AP	5 screws (1.7 x 4 mm)
46B	Central ring 1	46F	Spokes 2	CM	4 screws (1.7 x 4 mm)
46C	Inflation valve	46G	Central ring 2		
46D	Hub 1	46H	Double-sided tape		



Stage 46: Assembling the Rear Left Wheel Rim (1) (Regular)



Stage 46: Assembling the Rear Left Wheel Rim (1) (Regular)



Stage 46B: Assembling the Rear Left Wheel Rim (1) (Easy)

4-46B# PARTS LIST



EASY ASSEMBLY

46AA	Central ring 1	46EE	Hub 4	LP	5 screws (1.5 x 3 mm)
46BB	Hub 1	46FF	Spokes 1	TP	4 screws (1.5 x 5 mm)
46CC	Hub 2	46GG	Spokes 2	UP	4 screws (1.7 x 4 mm)
46DD	Hub 3				

A

46CC

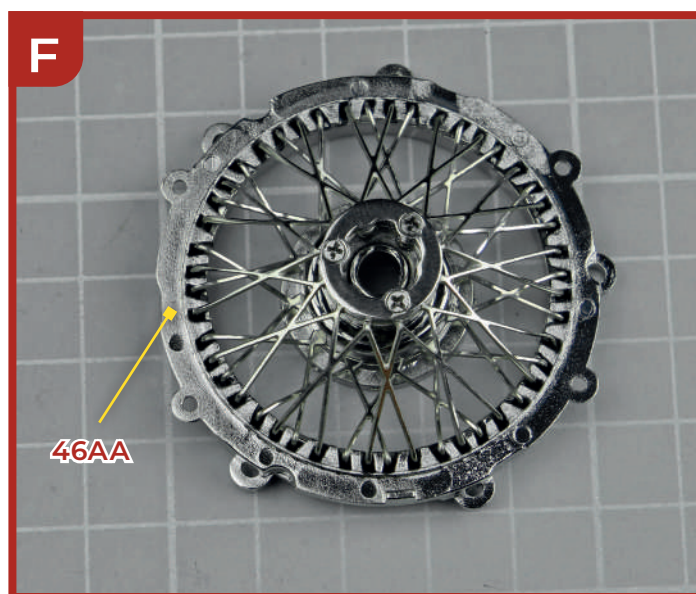
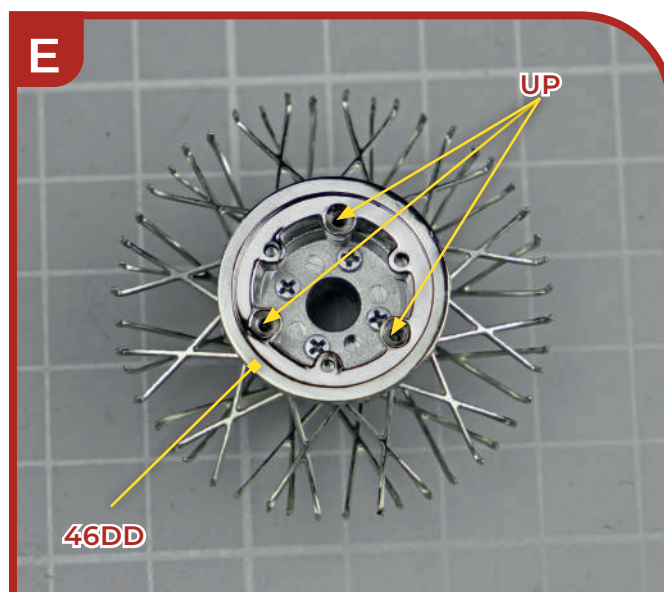
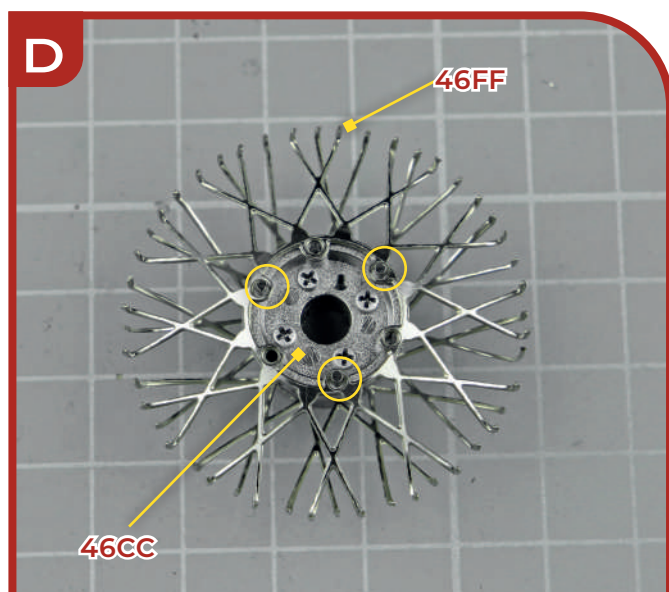
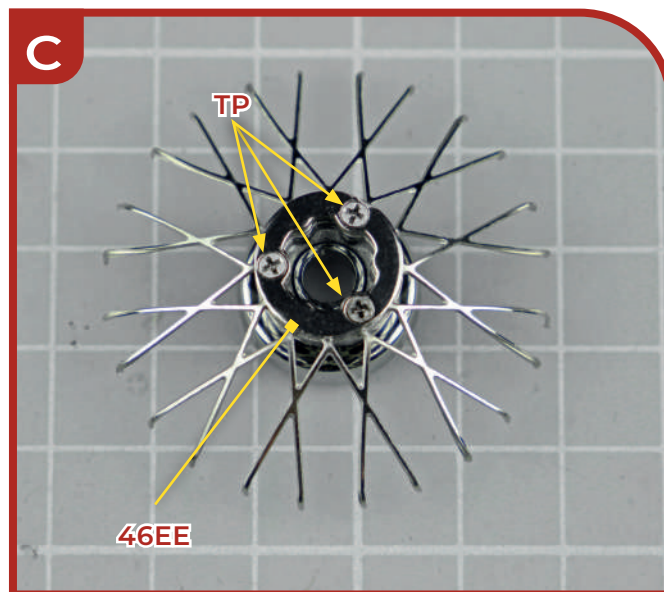
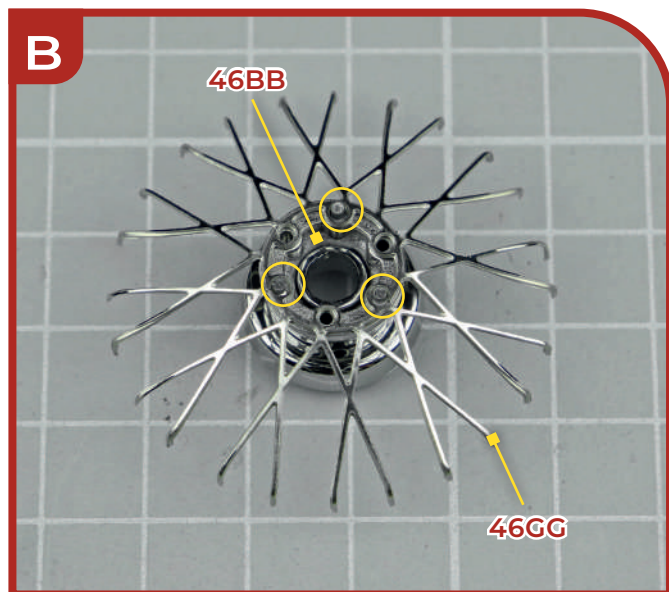
46BB

LP

46CC

LP

Stage 46B: Assembling the Rear Left Wheel Rim (1) (Easy)



Stage 47: Assembling the Rear Left Wheel Rim (2) (Regular)

4-47# PARTS LIST



- 47A Inner rim
- 47B Central ring 3
- 47C Hub 2
- 47D Spokes 3
- 47E Double-sided tape

- CM 4 screws (1.7 x 4 mm)
- KM 5 screws (1.5 x 5 mm)

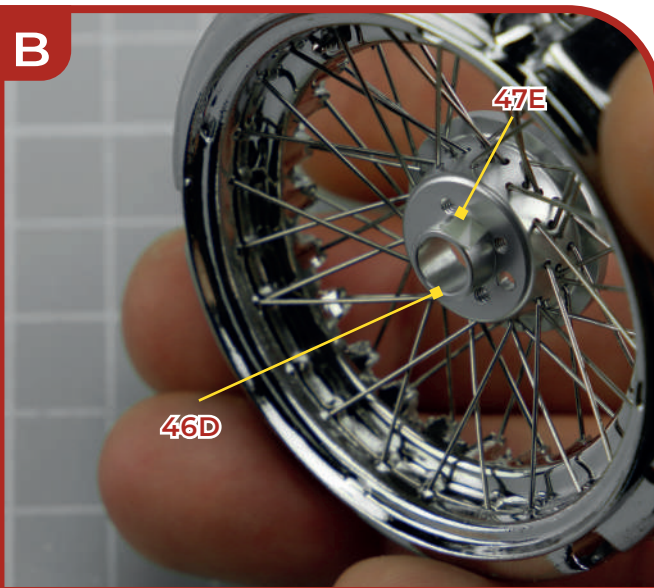
REGULAR ASSEMBLY

A

Apply 24 pieces of double-sided tape 47E to 46B's inner profile and tear off their top sheets.



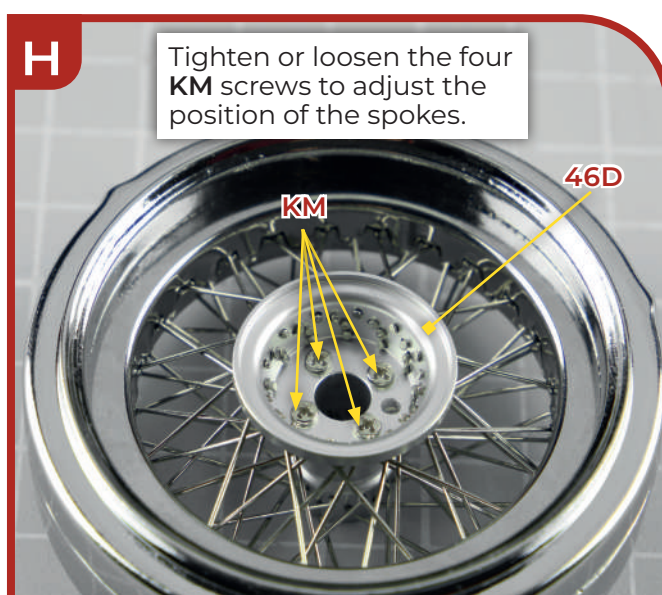
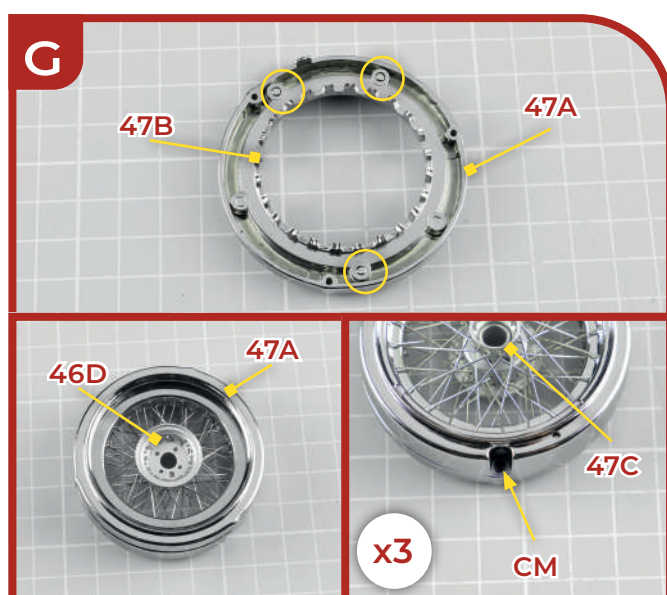
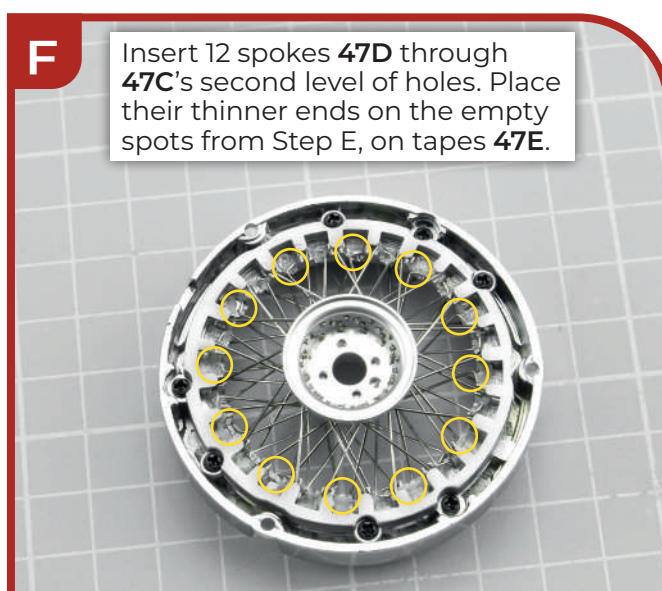
B



C



Stage 47: Assembling the Rear Left Wheel Rim (2) (Regular)



Stage 47B: Assembling the Rear Left Wheel Rim (2) (Easy)

4-47B# PARTS LIST



47AA Outer rim
47BB Inner rim
47CC Central ring 2
47DD Inflation valve

AP 5 screws (1.7 x 4 mm)
CM 8 screws (1.7 x 4 mm)

EASY ASSEMBLY

