## **IDES BRITISH GRAND PRIX WINNER INTERCEDES-BENZ** W 195 P



# Pack 06

#### BUILD INSTRUCTIONS

STAGE 27: BUILDING THE REAR SUSPENSION (1)

STAGE 28: BUILDING THE REAR SUSPENSION (2)

STAGE 29: ATTACHING THE REAR SUBFRAME

STAGE 30: FITTING THE WATER PUMP AND THE FUEL PUMP OIL RESERVOIR

STAGE 31: BUILDING THE FRONT LEFT SUSPENSION

STAGE 32: BUILDING THE FRONT RIGHT SUSPENSION

STAGE 33: FITTING THE STEERING BAR

STAGE 34: FIXING THE FRONT STABILIZER BAR

STAGE 35: BUILDING THE FRONT LEFT BRAKE DRUM

STAGE 36: BUILDING THE FRONT RIGHT BRAKE DRUM

STAGE 37: ASSEMBLING THE FRONT RIGHT WHEEL RIM (1) (REGULAR) STAGE 37B: ASSEMBLING THE FRONT RIGHT WHEEL RIM (1) (EASY)

STAGE 38: ASSEMBLING THE FRONT RIGHT WHEEL RIM (2) (REGULAR)

STAGE 38B: ASSEMBLING THE FRONT RIGHT WHEEL RIM (2) (EASY)

STAGE 39: FITTING THE FRONT RIGHT TYRE (REGULAR)

STAGE 39B: FITTING THE FRONT RIGHT TYRE (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.
- $\cdot$  Where left and right elements of the same part are supplied, these are listed as (L) and (R).
- $\cdot$  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.
- $\cdot$  With P screws, do not over-tighten them as they can damage the socket.
- $\cdot$  When working with the pre-finished exterior surfaces of the model, work on a soft cloth. This will protect against scratching the paintwork.
- $\cdot$  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.
- $\cdot$  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.

**WARNINC:** 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 <u>https://community.agoramodels.com/forum/198-mercedes-w196r/</u>

#### Page 6 – G

You may need to ease the tab and/or slot in parts **27D** and **27E** to get the two halves of the shocks to slide together easily.

#### Page 8 – E

You may need to ease the tab and/or slot in parts **28D** and **E** to get the two halves of the shocks to slide together easily.

Page 9 – B It's worth pre-threading the screw holes here.

#### Page 10 – E

If the screws **CM** seem too long, try cutting or filing them.

#### Page 12

See page 19 below. The parts **34D** are easier to fit if done so before stage 31.

#### Page 13 – G

The flat on the end of the shaft and the dimple in the middle of the shaft must point down.

#### Page 13 – H

There may be some flashing over the hole for the shock absorber top fixing (screw **QM**). If so, drill out the hole with a 1.6mm drill.

#### Page 13 – I

For easier fitting, we recommend swapping steps I & J. Temporarily remove the screw **PM** holding the upper suspension arm **31D** to the spindle **31A**. Drive the screw **QM** fully into the suspension arm, then put the suspension arm in place with screw **QM** in its hole with the chassis upright. Then fit the front of the suspension arm with screw **QM**. Finally refit the suspension arm to the top of the spindle.

#### Page 14

See page 19 below. The parts **34D** are easier to fit if done so before stage 31.

#### Page 15 – H

There may be some flashing over the hole for the shock absorber top fixing (screw **QM**). If so, drill out the hole with a 1.6mm drill.

## **Advice from the experts**

#### Page 15 – I

For easier fitting, we recommend swapping steps I & J. Temporarily remove the screw **PM** holding the upper suspension arm **32D** to the spindle **32A**. Drive the screw **QM** fully into the suspension arm, then put the suspension arm in place with screw **QM** in its hole with the chassis upright. Then fit the front of the suspension arm with screw **QM**. Finally refit the suspension arm to the top of the spindle.

#### Page 19 – C

Parts **34D** are easier to fit before stage 31. See note on page 12 above.

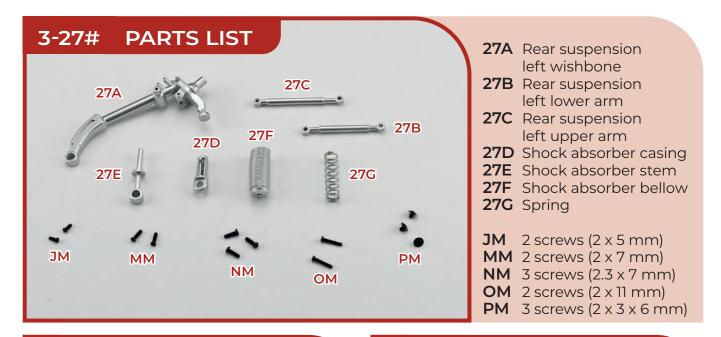
#### Page 21 – D

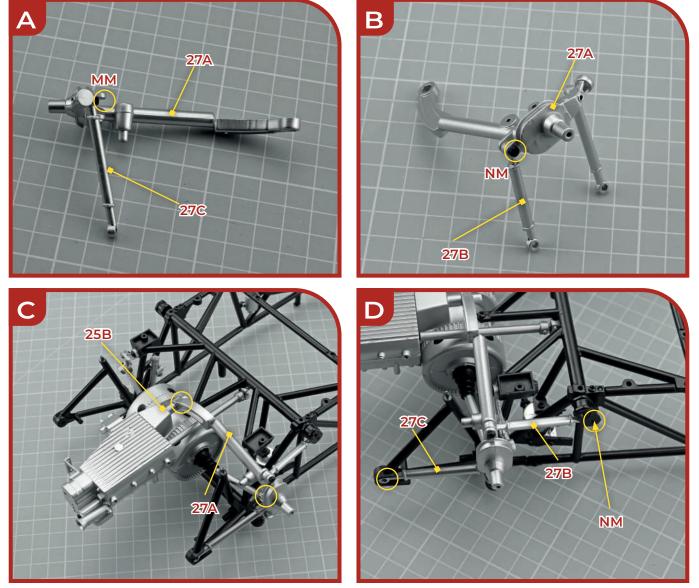
If necessary, drill out the two holes near the centre of **35B** to 2.2mm so that they fit easily over the spindles.

#### Page 22 – D

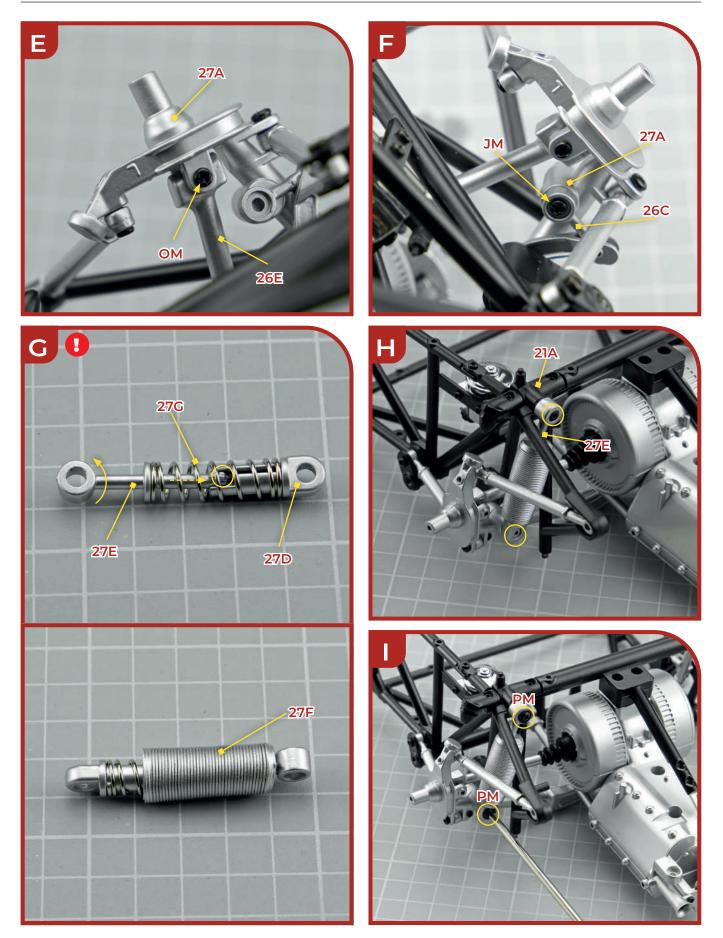
If necessary, drill out the two holes near the centre of **36B** to 2.2mm so that they fit easily over the spindles.

#### Stage 27: Building the Rear Suspension (1)



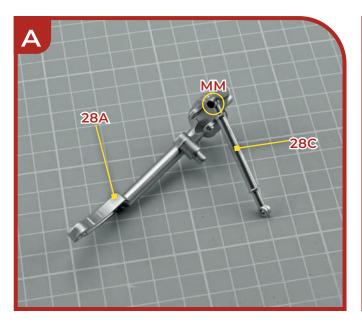


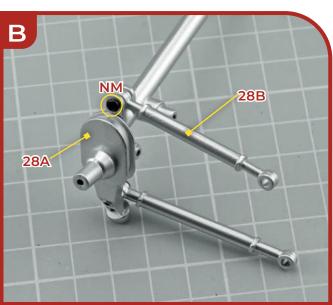
## Stage 27: Building the Rear Suspension (1)



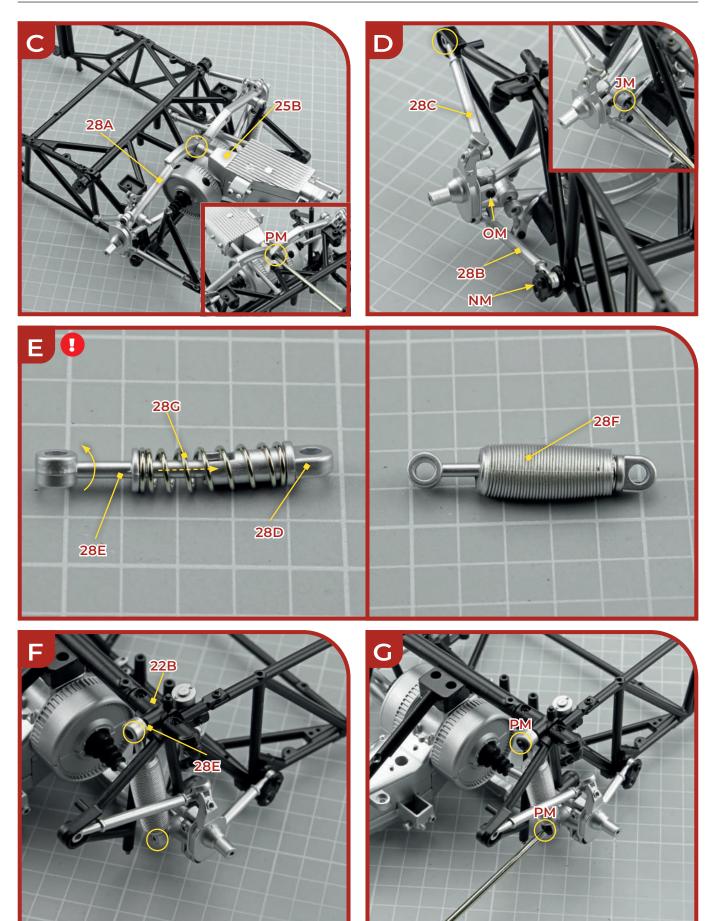
## Stage 28: Building the Rear Suspension (2)

3-2	8# PARTS L	IST			
		28A 28E	28D 28C	28C 28B 0 28F 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
28A 28B 28C 28D 28E	Rear suspension right wishbone Right lower arm Right upper arm Shock absorber cas Shock absorber ste		Shock absorber bellow Spring	JM       2 screws (2 x         MM       2 screws (2 x         NM       3 screws (2.3         OM       2 screws (2 x         PM       4 screws (2 x	: 7 mm) 5 x 7 mm) : 11 mm)

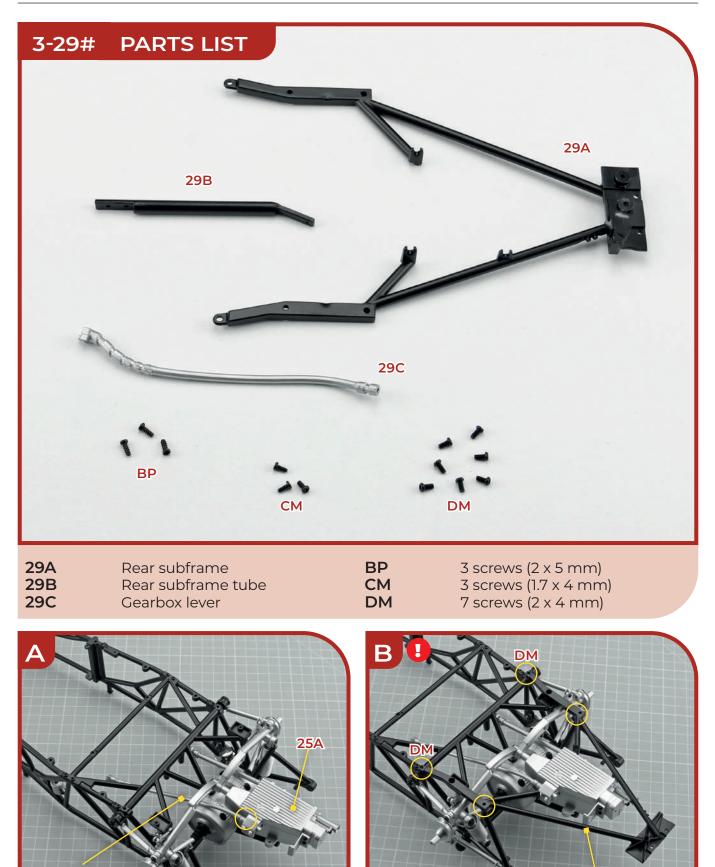




## **Stage 28: Building the Rear Suspension (2)**



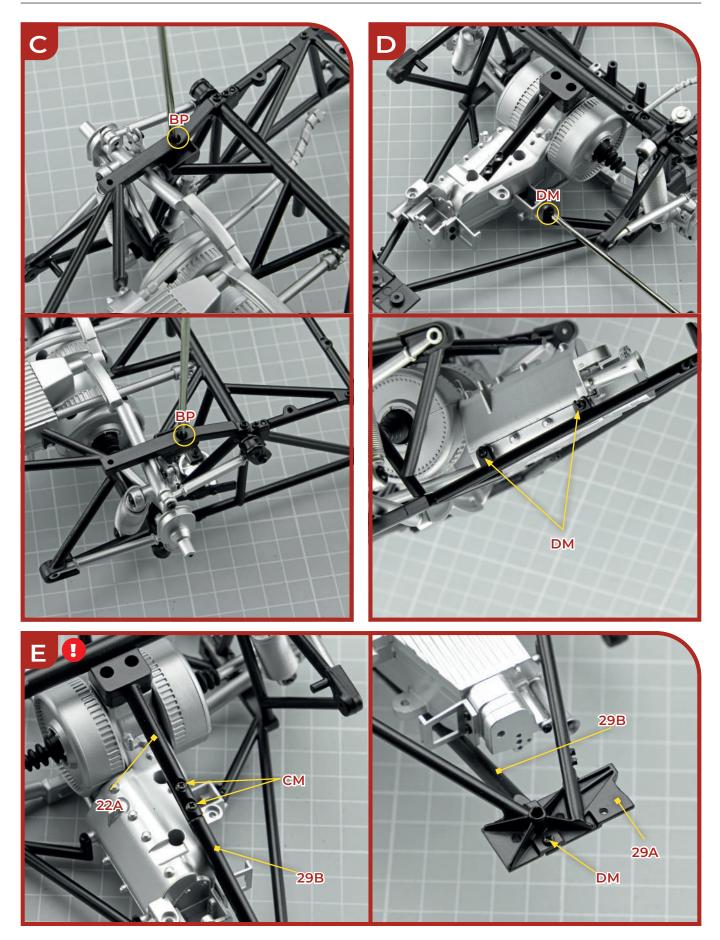
## **Stage 29: Attaching the Rear Subframe**



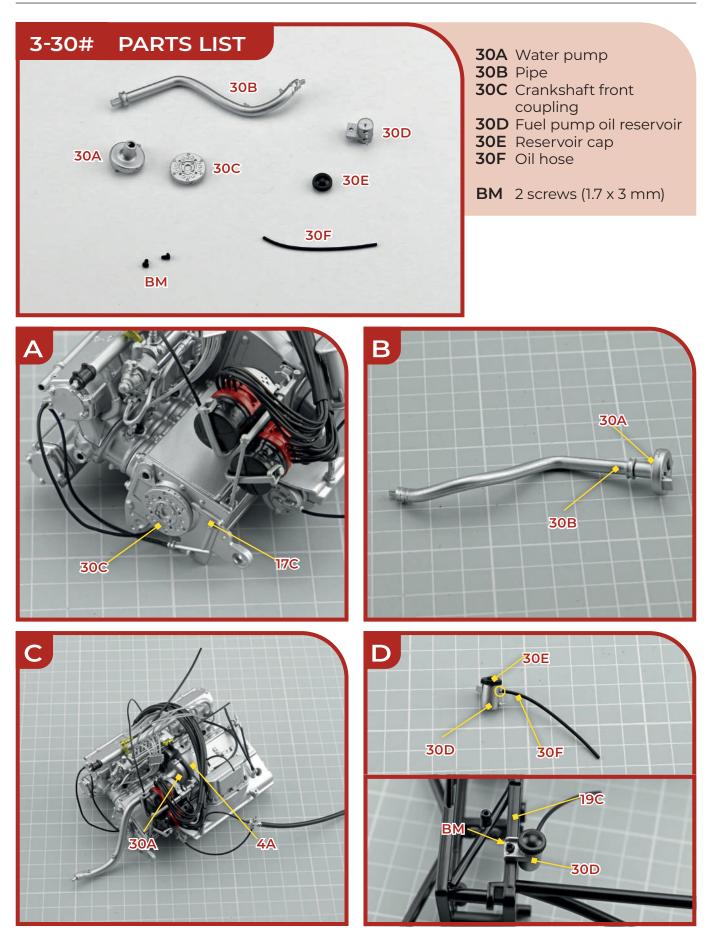
**29C** 

**29A** 

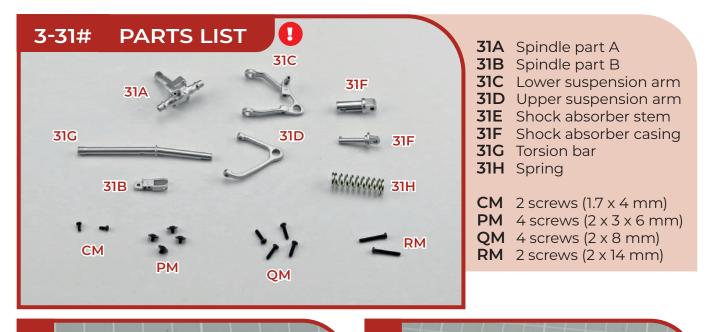
## **Stage 29: Attaching the Rear Subframe**

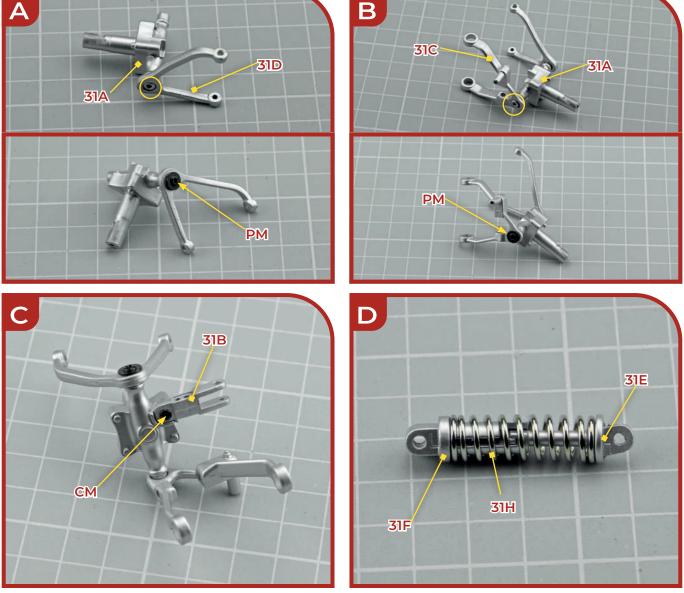


#### Stage 30: Fitting the Water Pump and the Fuel Pump Oil Reservoir

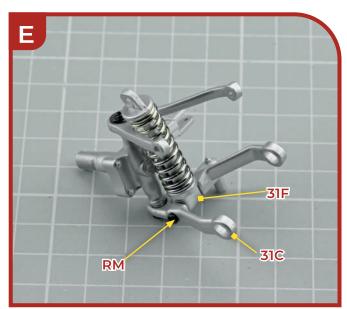


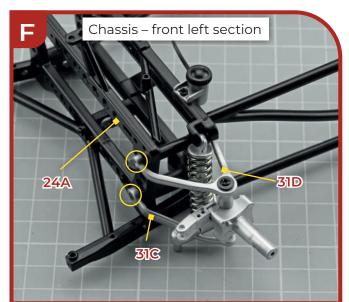
#### **Stage 31: Building the Front Left Suspension**

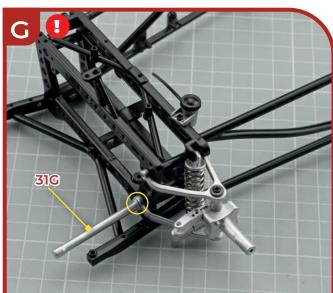




## Stage 31: Building the Front Left Suspension

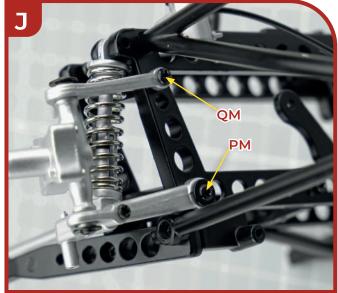




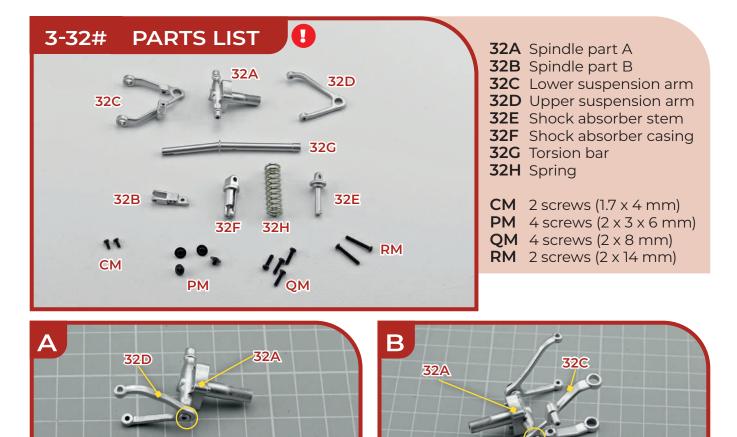


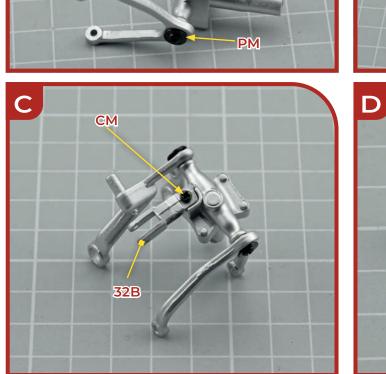


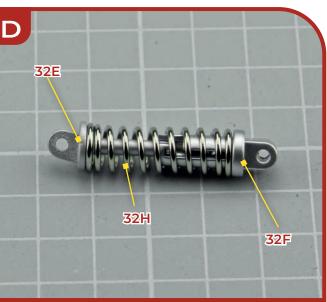




#### **Stage 32: Building the Front Right Suspension**

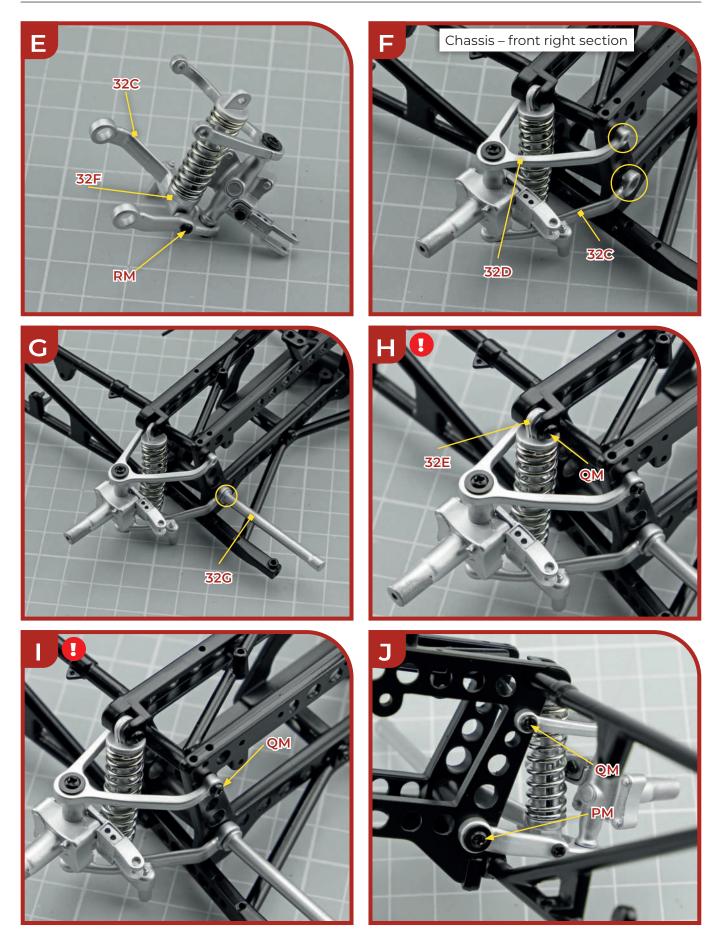




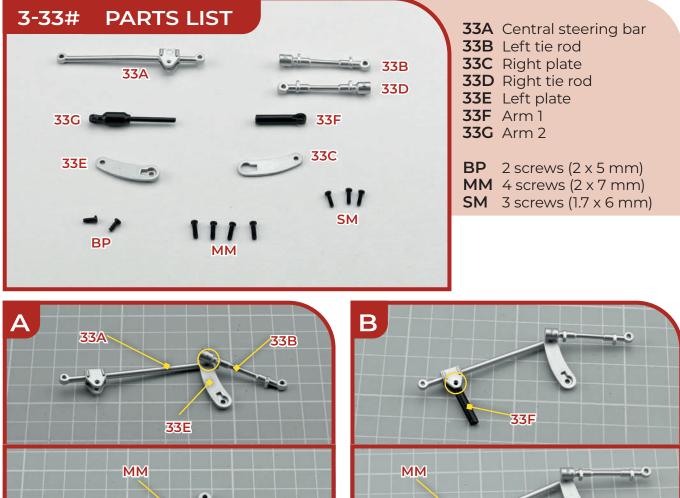


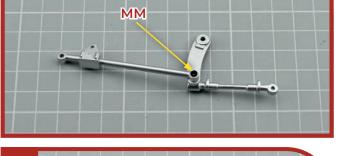
PM

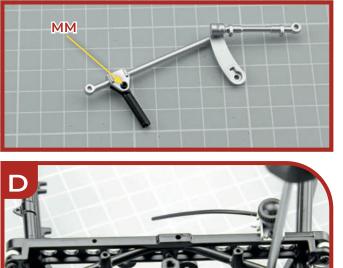
## **Stage 32: Building the Front Right Suspension**

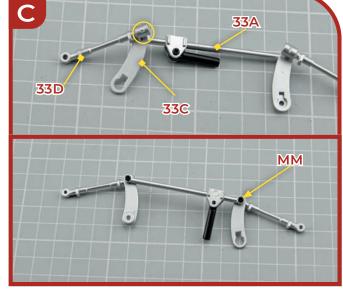


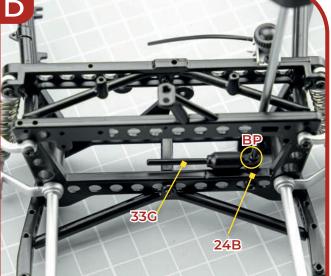
#### **Stage 33: Fitting the Steering Bar**



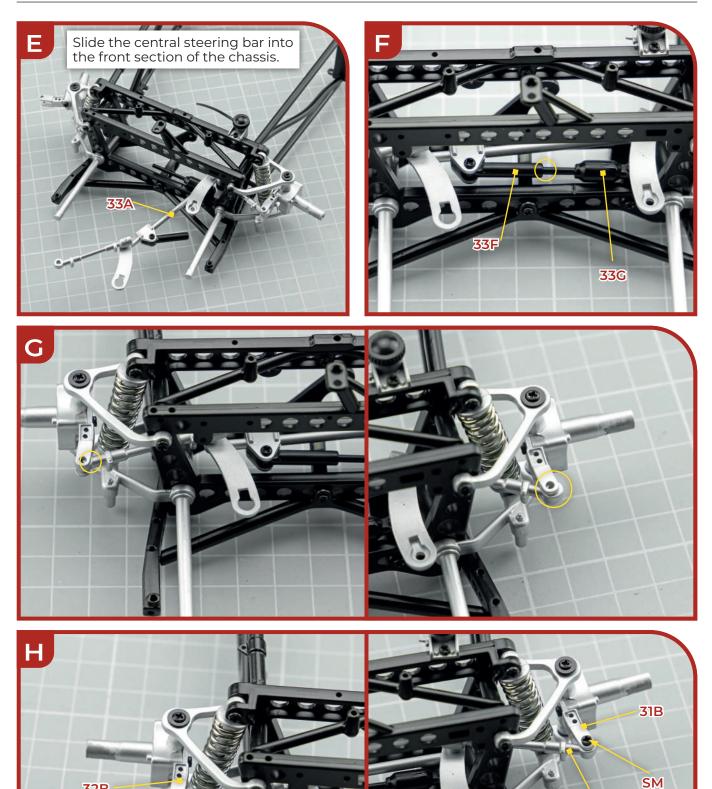








## **Stage 33: Fitting the Steering Bar**



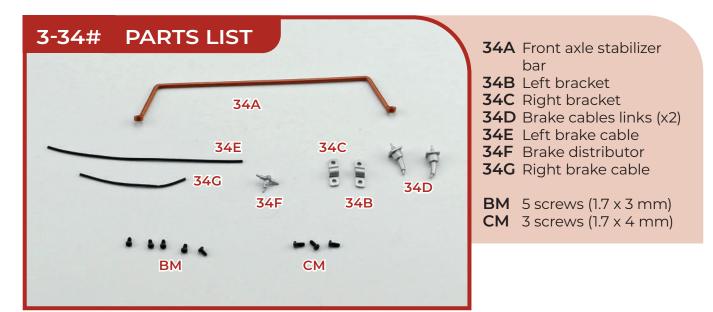
32B

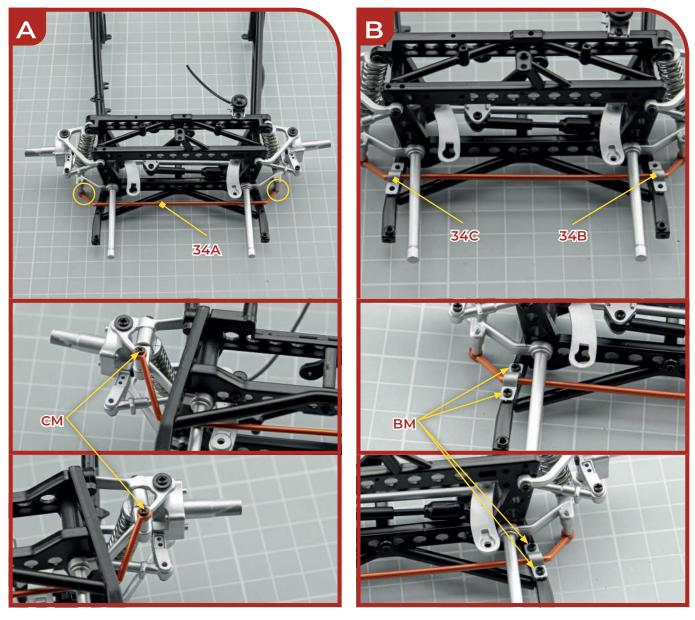
SM

33D

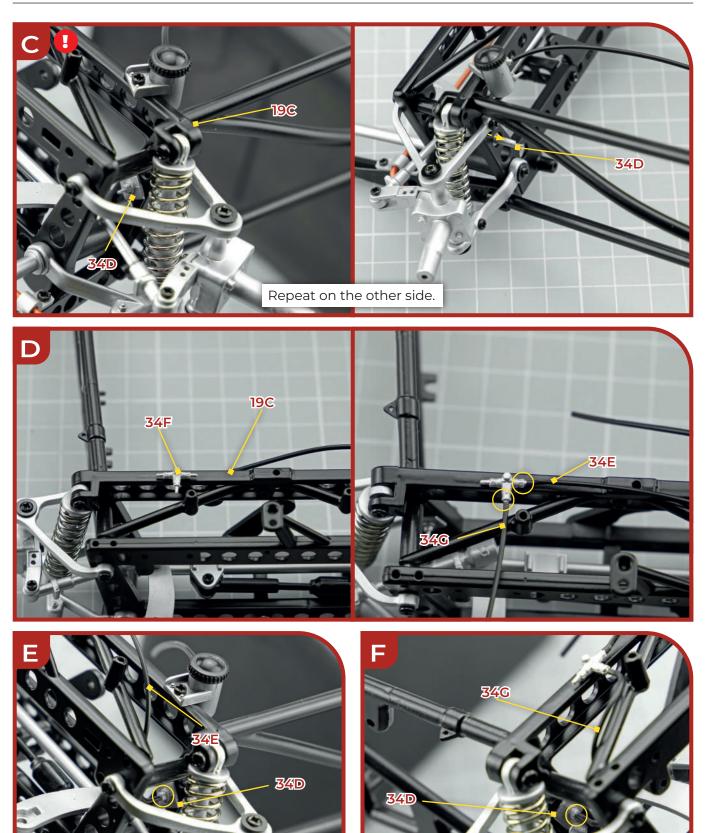
33B

#### **Stage 34: Fixing the Front Stabilizer Bar**





## Stage 34: Fixing the Front Stabilizer Bar



## Stage 35: Building the Front Left Brake Drum

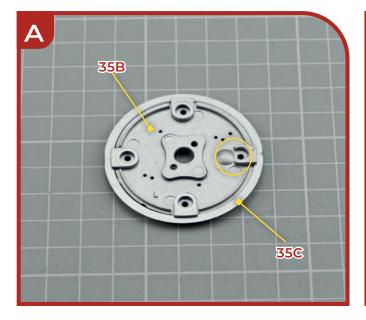
3-3	5# PARTS LIS	ST	
	350	35A 35B	
	35F	35E 35D 35G	
		JM	
35A	Brake drum	<b>35E</b> Brake drum cable 2 <b>EP</b> 5 screws (2 x 4 m	nm)

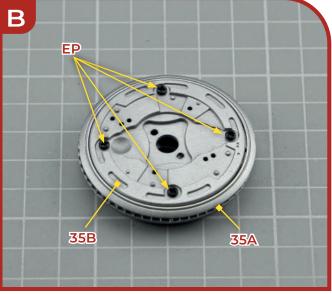
35A	Brake drum
35B	Brake plate part A
35C	Brake plate part B
35D	Brake drum cable 1

**35E** Brake drum cable 2 **35F** Brake drum cable 3 **35G** Brake drum cable 4

EP JM

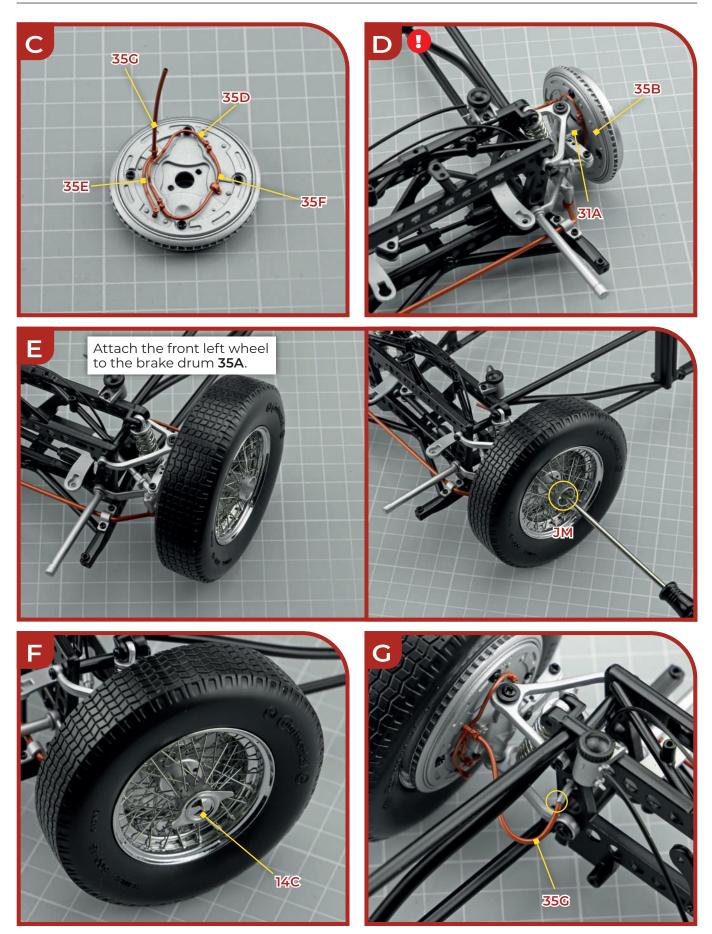
5 screws (2 x 4 mm) 2 screws (2 x 5 mm)



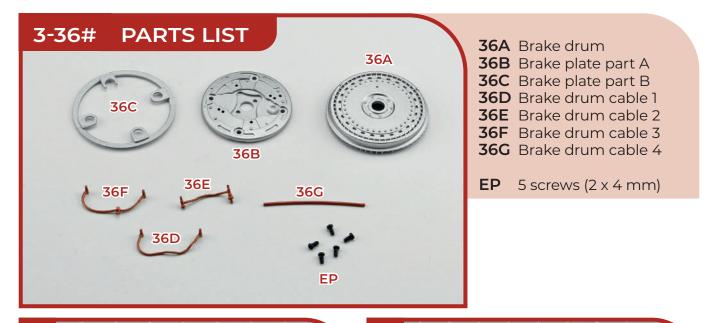


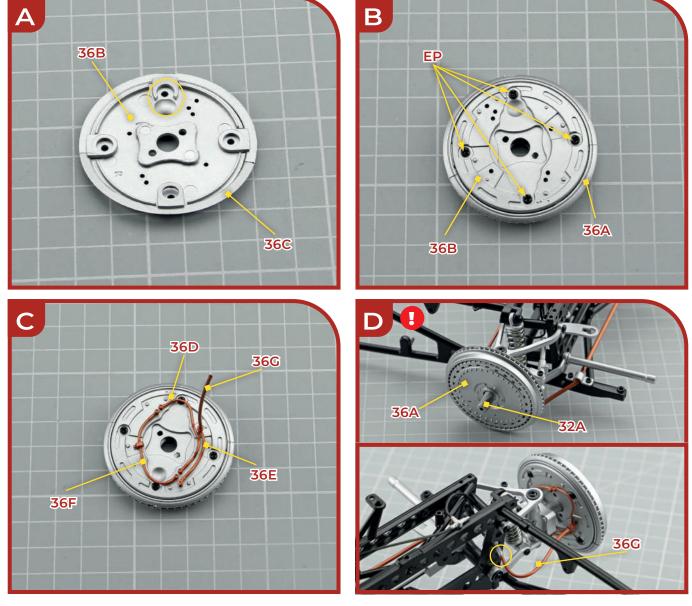
AGORAMODELS

## Stage 35: Building the Front Left Brake Drum



#### **Stage 36: Building the Front Right Brake Drum**

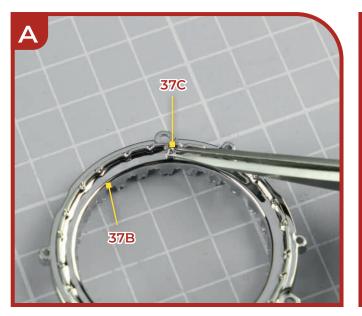


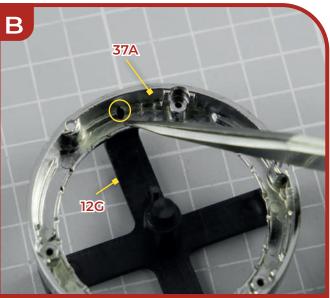


22

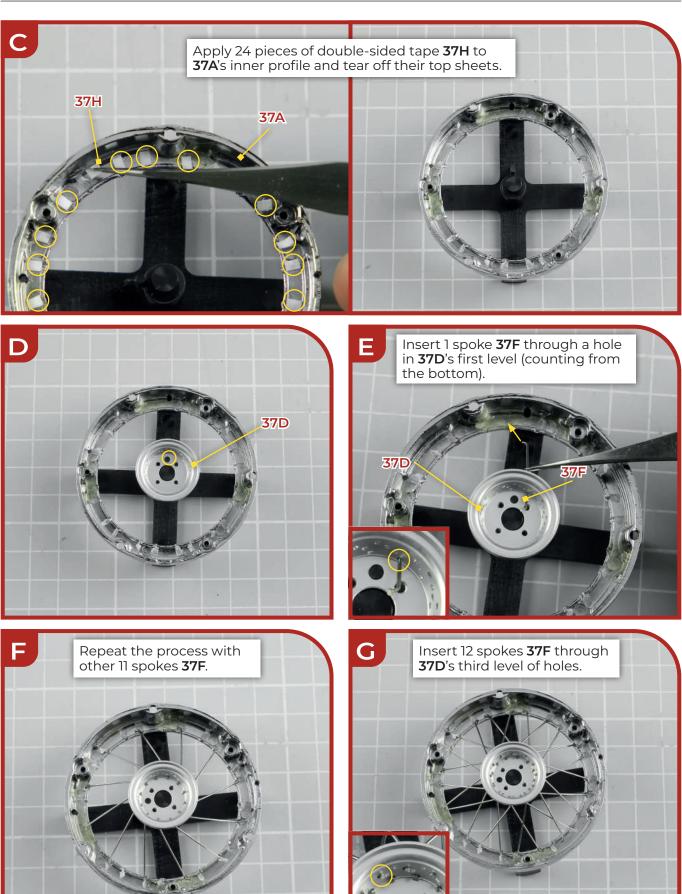
## Stage 37: Assembling the Front Right Wheel Rim (1) (Regular)

3-3	7# PARTS	LIST
	37A 37A 37G 37G	Jig from Stage 12 (12C) TO TO TO TO TO TO TO TO TO TO
	5/11	REGULAR ASSEMBLY
37A 37B 37C 37D	Outer rim Central ring 1 Inflation valve Hub 1	<ul> <li>37E Spokes 1</li> <li>37F Spokes 2</li> <li>37G Central ring 2</li> <li>37H Double-sided tape</li> <li>AP 5 screws (1.7 x 4 mm)</li> <li>4 screws (1.7 x 4 mm)</li> </ul>

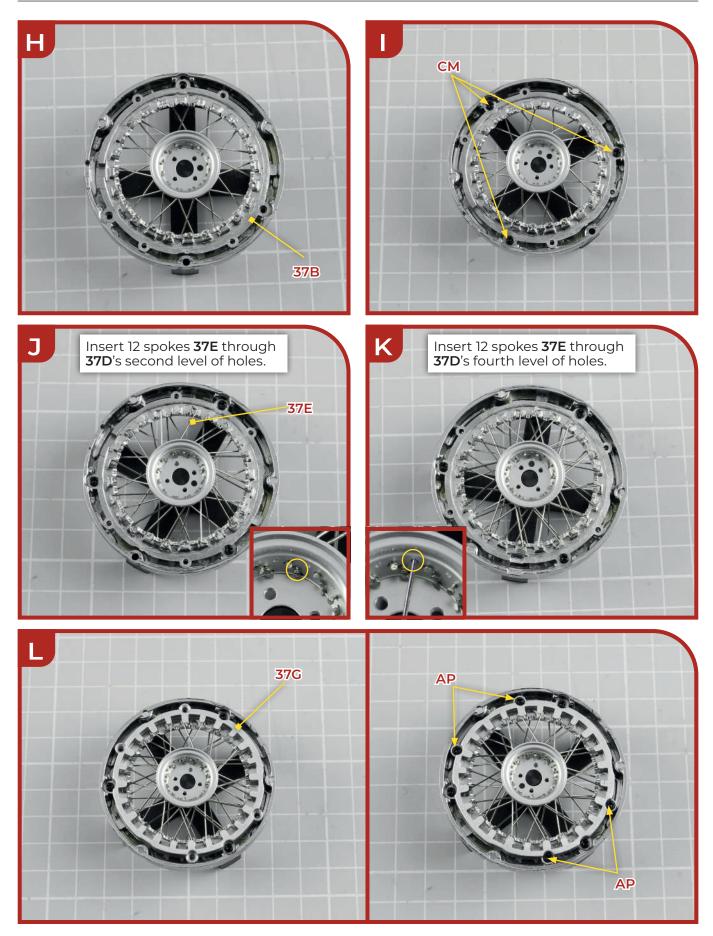




#### Stage 37: Assembling the Front Right Wheel Rim (1) (Regular)



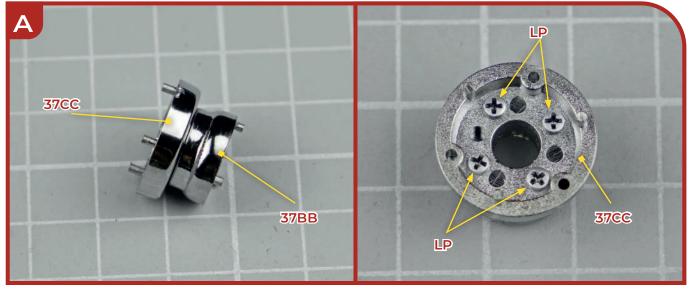
#### Stage 37: Assembling the Front Right Wheel Rim (1) (Regular)



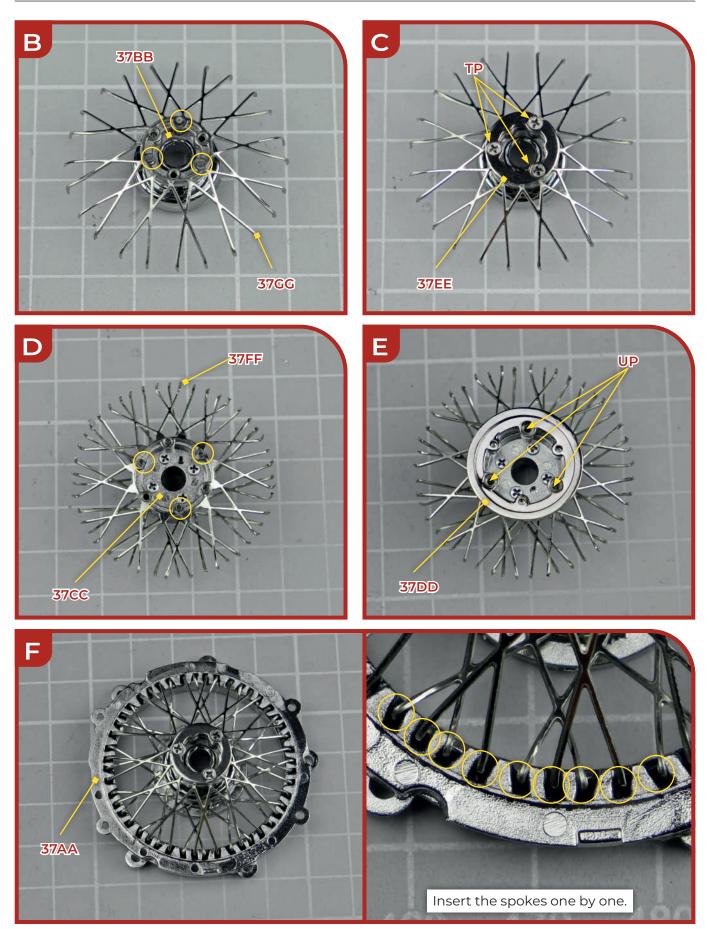
#### Stage 37B: Assembling the Front Right Wheel Rim (1) (Easy)



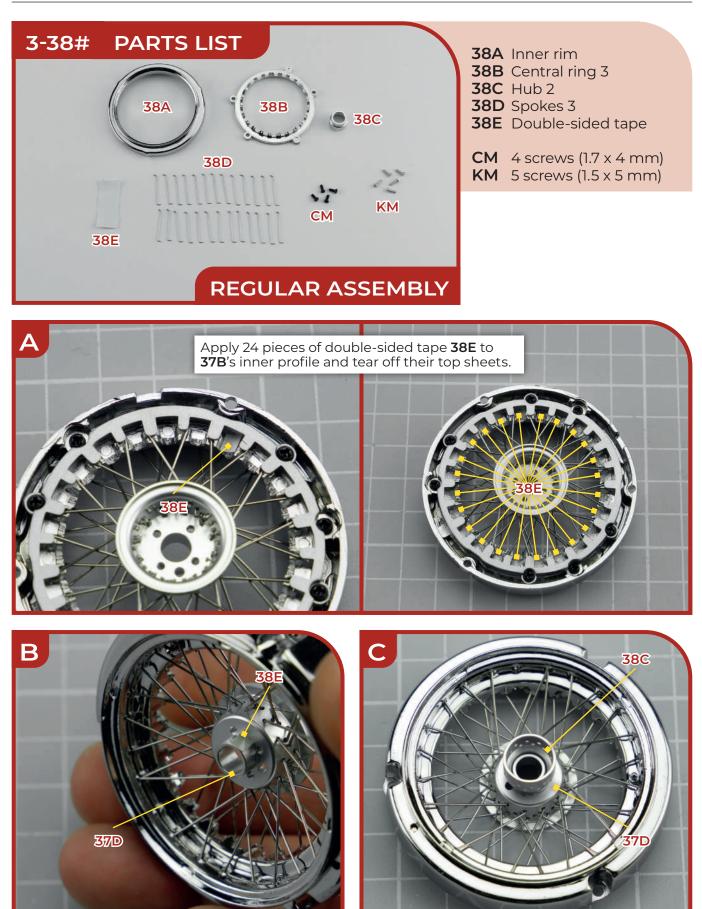
37BB 37CC 37DD	Hub 1 Hub 2 Hub 3	37FF 37GG	Spokes 1 Spokes 2	TP UP	4 screws (1.5 x 5 mm) 4 screws (1.7 x 4 mm)



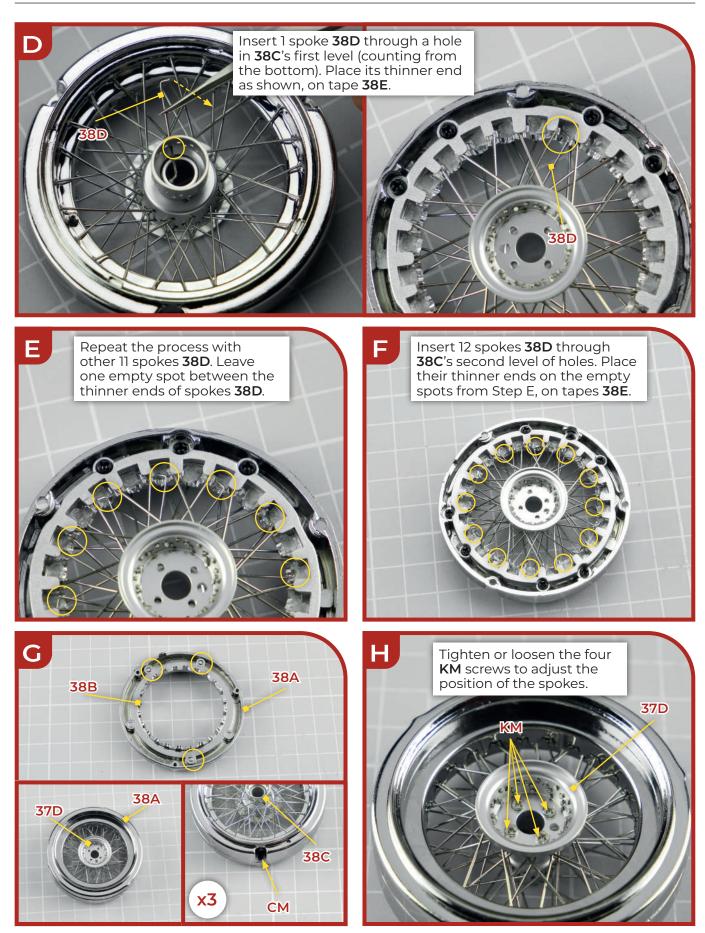
#### Stage 37B: Assembling the Front Right Wheel Rim (1) (Easy)



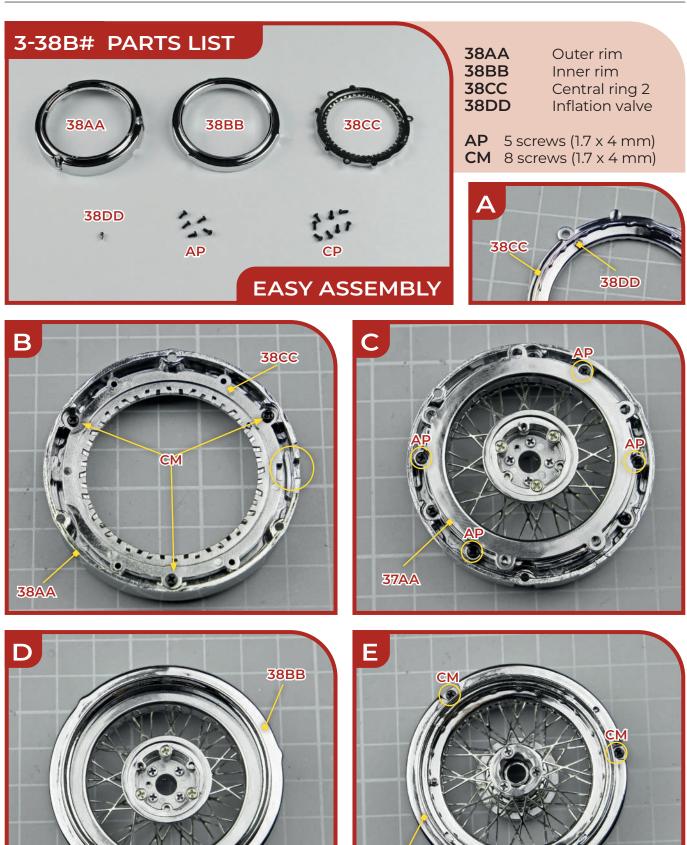
#### Stage 38: Assembling the Front Right Wheel Rim (2) (Regular)



#### Stage 38: Assembling the Front Right Wheel Rim (2) (Regular)



#### Stage 38B: Assembling the Front Right Wheel Rim (2) (Easy)



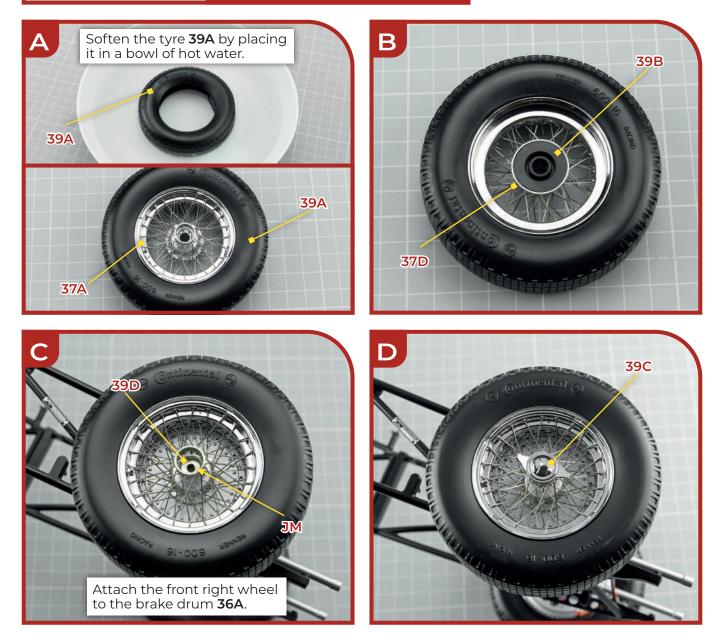
**38AA** 

CM

#### Stage 39: Fitting the Front Right Tyre (Regular)



#### **REGULAR ASSEMBLY**



## Stage 39B: Fitting the Front Right Tyre (Easy)



